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Aerodynamic and Acoustic Behavior of a YF-12 Inlet at Static Conditions

**L. H. Bangert, E. P. Feltz,
L. A. Godby, and L. D. Miller**

**LOCKHEED-CALIFORNIA COMPANY
BURBANK, CALIFORNIA**

January 1981

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**National Aeronautics and
Space Administration**

**Dryden Flight Research Center
Edwards, California 93523**

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16. Abstract An aeroacoustic test program was performed with a YF-12 aircraft at ground static conditions. The objective was to collect acoustic and aerodynamic data that could determine the cause of YF-12 inlet noise suppression observed earlier. Data were obtained over a wide range of engine speeds; with the spike in forward, midway, and aft positions; with the forward bypass open or closed; and with the spike bleed open or closed. Acoustic measurements were made in the far-field and aerodynamic and acoustic measurements were made inside the YF-12 inlet. The J58 test engine was also removed from the aircraft and tested separately with a bellmouth inlet. The test results showed that the far-field noise level was significantly lower for the YF-12 inlet than for the bellmouth inlet at engine speeds above about 5500 rpm. The differences varied from about 5 PNdB to about 11 PNdB, depending on engine speed and on YF-12 inlet configuration. There was no evidence that YF-12 inlet noise suppression was caused by flow choking. The spectral peak near the blade passing frequency disappeared in the region of the spike support struts at engine speeds between 6000 and 6600 rpm, however. Also, multiple pure tones were significantly reduced in the region of the spike support struts.					
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AERODYNAMIC AND ACOUSTIC BEHAVIOR OF A YF-12 INLET AT STATIC CONDITIONS

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SUMMARY

An aeroacoustic test program was performed with a YF-12 aircraft at ground static conditions. The objective was to collect acoustic and aerodynamic data that could determine the cause of YF-12 inlet noise suppression observed earlier. Data were obtained over a wide range of engine speeds; with the spike in forward, midway, and aft positions; with the forward bypass open or closed; and with the spike bleed open or closed. Acoustic measurements were made in the far-field, and aerodynamic and acoustic measurements were made inside the YF-12 inlet. The J58 test engine was also removed from the aircraft and tested separately with a bellmouth inlet. The test results showed that the far-field noise level was significantly lower for the YF-12 inlet than for the bellmouth inlet at engine speeds above about 5500 rpm. The differences varied from about 5 PNdB to about 11 PNdB, depending on engine speed and on YF-12 inlet configuration. There was no evidence that YF-12 inlet noise suppression was caused by flow choking. The spectral peak near the blade passing frequency disappeared in the region of the spike support struts at engine speeds between 6000 and 6600 rpm, however. Also, multiple pure tones were significantly reduced in the region of the spike support struts.

INTRODUCTION

Supersonic cruise research technology studies have shown the need for inlet suppression of fan noise at landing approach and takeoff conditions to meet community noise regulations. Discussions at the NASA-Lewis Inlet/Fan Noise Workshop in November 1978 produced a consensus that 15 to 20 PNdB suppression was required on landing approach, and 5 to 10 PNdB on takeoff. These estimates were based in part on the anticipated characteristics of variable-cycle engines now being developed. Until recently, it had generally been assumed that such suppression levels would be achieved mainly by choking the inlet, and partly by the use of acoustic liners. Operating with choked inlets may give significantly lower total pressure recovery and higher distortion, however. This may critically affect overall aircraft performance in these low-altitude, low-speed conditions. Thus, there is a strong incentive to determine those inlet design features that can give the required noise suppression, while maintaining the performance required for safe operation.

In December 1978 some exploratory ground-static tests of inlet suppression of compressor noise were performed at NASA-Dryden Flight Research Center using a YF-12 aircraft. Additional tests of a J58 engine with a bellmouth inlet were performed for comparison. The results showed significant noise suppression for the YF-12 inlet compared to the bellmouth inlet. Calculated Mach numbers indicated that the flow was well below choking throughout the inlet. No inlet flow field measurements or internal acoustic measurements were made in these exploratory tests, however. As a result, no definite interpretation of these

noise suppression results was possible. It may be noted that similar results were reported by Putnam and Smith (reference 1) for an XB-70 aircraft. In that case also, there was significant noise suppression at conditions well below choking. Again, lack of inlet instrumentation prevented an explanation of the acoustic data.

Because the exploratory YF-12 data offered the possibility that some feature of the inlet design, other than choking, provided noise suppression, the NASA-Dryden Flight Research Center and the Lockheed-California Company performed a more comprehensive test program. The general objective of this program was to collect acoustic and aerodynamic data to provide the basis for identifying the physical causes of the noise suppression. Within this broad objective, it was desired to determine whether in fact choking had occurred in the YF-12 inlet, and to locate the region of the inlet where noise suppression occurred.

In the subsequent test program, aerodynamic and acoustic measurements were made inside the inlet, and acoustic measurements outside. All the tests were performed with a YF-12 aircraft at ground static conditions. Engine speed was varied from 3800 to 6600 rpm. Spike position was held in forward, midway, or aft position. The forward bypass was either open or closed. On some runs the spike bleed was closed by taping over the bleed perforations. After the tests with the YF-12 aircraft were completed, the J58 engine used in the tests was removed from the aircraft. A series of acoustic tests were performed on this engine with a bellmouth inlet, to provide directly comparable data.

The first results of this test program were presented in reference 2. The present report gives the results of the entire test program.

SYMBOLS

A_C	Inlet capture area
A_{CL}	Inlet area at cowl lip
A_{EF}	Engine face area
A_T	Inlet throat area
A, B, C, D, E	Total pressure probes at engine face, see figure 6
BPF	Blade passing frequency
g	Acceleration of gravity
K_a	Combined distortion
K_r	Radial distortion
K_θ	Circumferential distortion

SYMBOLS (continued)

LP-8	Overall sound pressure level
M	Mach number
\bar{M}	Area-weighted engine face Mach number
M_{CL}	Mach number at cowl lip
M_{EF}	Engine face Mach number based on corrected air flow rate
$M_{R2, R4}$	Average Mach number at rakes R2 and R4
M_{R1}	Average Mach number at rake R1
M_T	Throat Mach number
MPT	Multiple pure tone
\dot{m}_{CL}	Mass flow rate at cowl lip
\dot{m}_{ENG}	Mass flow rate of engine
\dot{m}_T^*	Sonic mass flow rate at throat area and at freestream total pressure
N	Engine speed
ODBA	Noise level computed by log sum of A-weighting sound pressure levels
P	Static pressure
P_o	Ambient pressure
P_{STD}	1.0 atm
P_T	Total pressure
P_T'	Total pressure measured by pitot tube
P_{T_o}	Freestream total pressure; also, ambient pressure
$P_{T_{EF}}$	Area-weighted engine face total pressure
$P_{T_{CL}}$	Total pressure at cowl lip
$\Delta P_T / P_{T_{EF}}$	Engine face distortion
PNL	Perceived noise level
q_{EF}	Dynamic pressure at engine face

SYMBOLS (continued)

r_c	Inlet radius at cowl lip
R	Gas constant for air
SIL	Speech interference level (not applicable for external noise)
SPL	Sound pressure level
T	Temperature
T_o	Ambient temperature
T_{STD}	288.15 degrees kelvin
W	Weight flow rate
W_{CL}	Weight flow rate at cowl lip
X	Axial distance from cowl lip
X_i/r_c	Distance ratio from spike tip to rake or tap on spike
X_{CL}/r_c	Distance ratio from spike tip to cowl lip
X_{CW}/r_c	Distance ratio from cowl lip to rake or tap on spike
$\Delta X/r_c$	Distance ratio spike is translated forward from design position
y/r_c	Normal distance ratio of rake probes from surface
δ	Corrected pressure, P_T/P_{STD}
θ	Corrected temperature, T_o/T_{STD}

AIRCRAFT AND INSTRUMENTATION

Aircraft

The photograph in figure 1 shows YF-12 aircraft 06935 with J58 engines as it was positioned for the tests. The aircraft and the far-field microphones were on a concrete taxiway so that sound propagation was entirely over concrete.

Some of the measurements for these tests were made using existing aircraft sensors. Thus, ambient pressure and temperature were measured by aircraft free-stream total pressure and total temperature probes, respectively, in ground-static conditions. Engine speed, spike position, and forward bypass door position were also obtained from onboard sensors. Each of the above quantities was recorded over the same time intervals as the other pressure and acoustic measurements. Figure 2 shows the schematic arrangement of the data recording system.

Aerodynamic Instrumentation

The principal features of the YF-12 inlet are shown in the isometric sketch of figure 3. In developing the instrumentation plan, a number of possible causes of noise suppression were considered. These included suppression by the spike bleed, the shock trap, or the forward bypass; locally sonic flow at one of the minimum areas near the cowl lip, the shock trap, and the spike support struts; and interference by the spike support struts. The inlet instrumentation was chosen with these possibilities in mind.

Inlet instrumentation locations are given in table 1 and in the sketches shown in figures 4 and 5 for the spike in the forward and aft positions, respectively. The symbols S1, S2, etc., denote wall static pressure measurement locations. R1, R2, etc., denote total pressure rakes. K1, K3, etc., denote Kulite acoustic sensors mounted flush with the inlet surface. The Kulites are discussed in the Acoustic Instrumentation section. The rakes, static pressure orifices, and Kulites had different angular locations to minimize interference effects.

A static pressure measurement (S28) was also made in the spike bleed plenum.

Figure 6 is a schematic front view of the inlet guide vane (IGV) rakes, showing the total pressure measurement locations. These total pressure probes were built into the IGVs, so there was no interference due to a separate engine face rake.

With the spike in the forward position, the rakes on the cowl and spike lined up as shown in figure 4. These rakes were also close to the minimum geometric flow areas, which are shown in figure 7. The total pressure rakes and the wall static pressures were included to provide details of the inlet flow and to aid in the interpretation of the acoustic data. It was particularly desired to detect any regions of sonic flow and of flow separation. The IGV total

pressure measurements were intended to provide inlet total pressure recovery and inlet distortion. Rakes R1 and R3 were also to be used to estimate the mass flow rate at the cowl lip. Because the engine flow rate was known as a function of corrected engine speed and total pressure recovery, an estimate could be made of flow rate into the inlet through the forward bypass and the spike bleed. These mass flow rates are included in the tabulations of Appendix A.

Pressures were sensed by a scanivalve system that was located on top of the wing inboard of the engine. This location minimized the length of tubing from the orifice to the transducer. The system included three scanivalves, each with 48 ports. The three were connected to each other and driven by the same motor. Pressures were sampled by each scanivalve at the rate of ten ports per second. The differential pressures were sensed by a single transducer with a range of ± 7 psid from the reference. The reference pressure was sensed by a single high-accuracy digital transducer. The arrangement used to record the scanivalve data is indicated in figure 2.

Acoustic Instrumentation

The arrangement of the external microphones is shown in the plan view sketch of figure 8. The nine microphones in the forward 110-degree arc were placed to primarily measure compressor noise. The aft microphone, F10, primarily recorded jet noise. F10 was placed at only 15.2m (50 ft) from the nozzle exit because this was nearly the limit of the concrete taxiway in that direction.

Microphone M11 was placed on the upper wing outside of the forward bypass to measure the noise radiated through the bypass. Microphone M1 was in the spike bleed plenum, microphone M2 was inside of the shock trap, and microphone M3 was inside of the forward bypass plenum opposite to M11.

Kulite locations were chosen to detect differences in sound pressure level and in spectrum shape across the support struts, the forward bypass, the shock trap, the spike bleed, and the three throats (at spike forward). K12 and K14 were placed to provide acoustic data near the engine noise source. It was recognized that the data from K12 and K14 would also be influenced by the inlet flow conditions near the engine face, however. The Kulite placement is shown in figures 4 and 7, and in table 1.

A Bruel and Kjaer (B&K) system was used for far-field microphones F1 through F10, and microphones M1, M2, M3, and M11. The B&K system is shown in figure 9. The nylon windscreen around the microphone effectively reduces wind-induced noise at low wind speeds. The B&K microphones have high resistance to humidity, a wide temperature range, and small temperature coefficients. They have a sufficiently rugged construction for easy handling in the field.

Kulite transducers were used for the inlet acoustic measurements because of their small size and favorable frequency response characteristics. The Kulite system is shown in figure 10. The Kulite transducer consists of a miniature silicon diaphragm on which a Wheatstone bridge has been atomically bonded using solid state diffusion.

Each microphone system was first calibrated in the laboratory as a complete system. Each system was checked for noise floor, sensitivity, and frequency response. A recording of system frequency response was made. Because the Kulites, except K1, were inaccessible after the engine was installed, a durability test was conducted prior to engine installation. With each Kulite system mounted in the inlet, it was checked for sensitivity and frequency response over a two day period. No changes were noticed, so the engine was installed and testing began.

Each day prior to and after testing a field calibration was performed on the far-field microphone system. The field calibration consisted of a sensitivity calibration using a B&K 4220 pistonphone and a system frequency response check using an IVIE IE-20B pink noise generator. The pistonphone is a portable, battery driven, precision calibrator. With the microphone properly seated in the coupler of the pistonphone, the sound pressure level at the microphone diaphragm was normally 124 dB relative to 0.0002 microbar at 250 Hz. The calibration was corrected for atmospheric pressure using a barometer provided with the pistonphone. The pistonphone accuracy was ± 0.2 dB. The pink noise generator provided broadband noise whose energy content was inversely proportional to frequency. The IVIE pink noise generator was battery operated with specifications of ± 0.5 dB from 20 Hz to 20 KHz. All calibrations were recorded on tape along with the data.

Near the end of the testing, the spike was removed so that the spike bleed perforations could be closed by taping from inside the spike. At this time another calibration of the B&K and the Kulite systems was performed. All of the microphone systems were found to be acceptable. At the completion of testing, all systems were calibrated again and recorded on tape.

Bellmouth Inlet/J58 Engine Tests

After the test program with the YF-12 aircraft was completed, the left J58 engine used in the tests was removed from the aircraft. Acoustic tests at ground-static conditions were then performed on this engine with a bellmouth inlet. The purpose of these tests was to obtain data that would allow direct assessment of the effect of the YF-12 inlet on the transmitted noise, without variation in the noise source. The earlier bellmouth inlet/J58 engine tests had used a different engine from that in the aircraft. Although no significant differences were anticipated, it was desirable to perform these last tests for completeness.

The photograph of figure 11 shows the subject J58 engine in a test cell at Beale Air Force Base, California. In the foreground the microphones are visible. Figure 12 is a plan view sketch of the test arrangement, showing the microphone locations.

The microphone system for these bellmouth inlet/J58 engine tests was the same B&K system described in the Acoustic Instrumentation section.

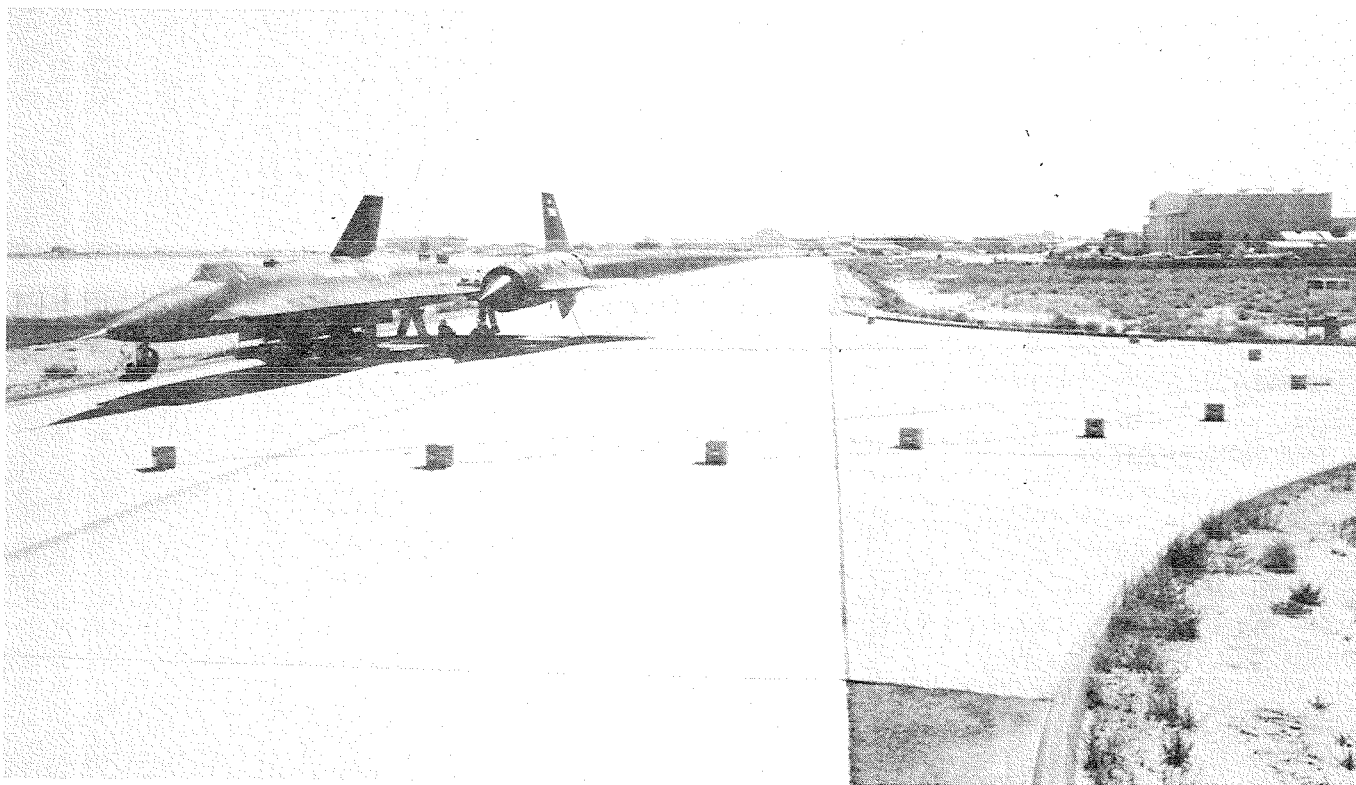


Figure 1. YF-12 aircraft in position for aeroacoustic tests.

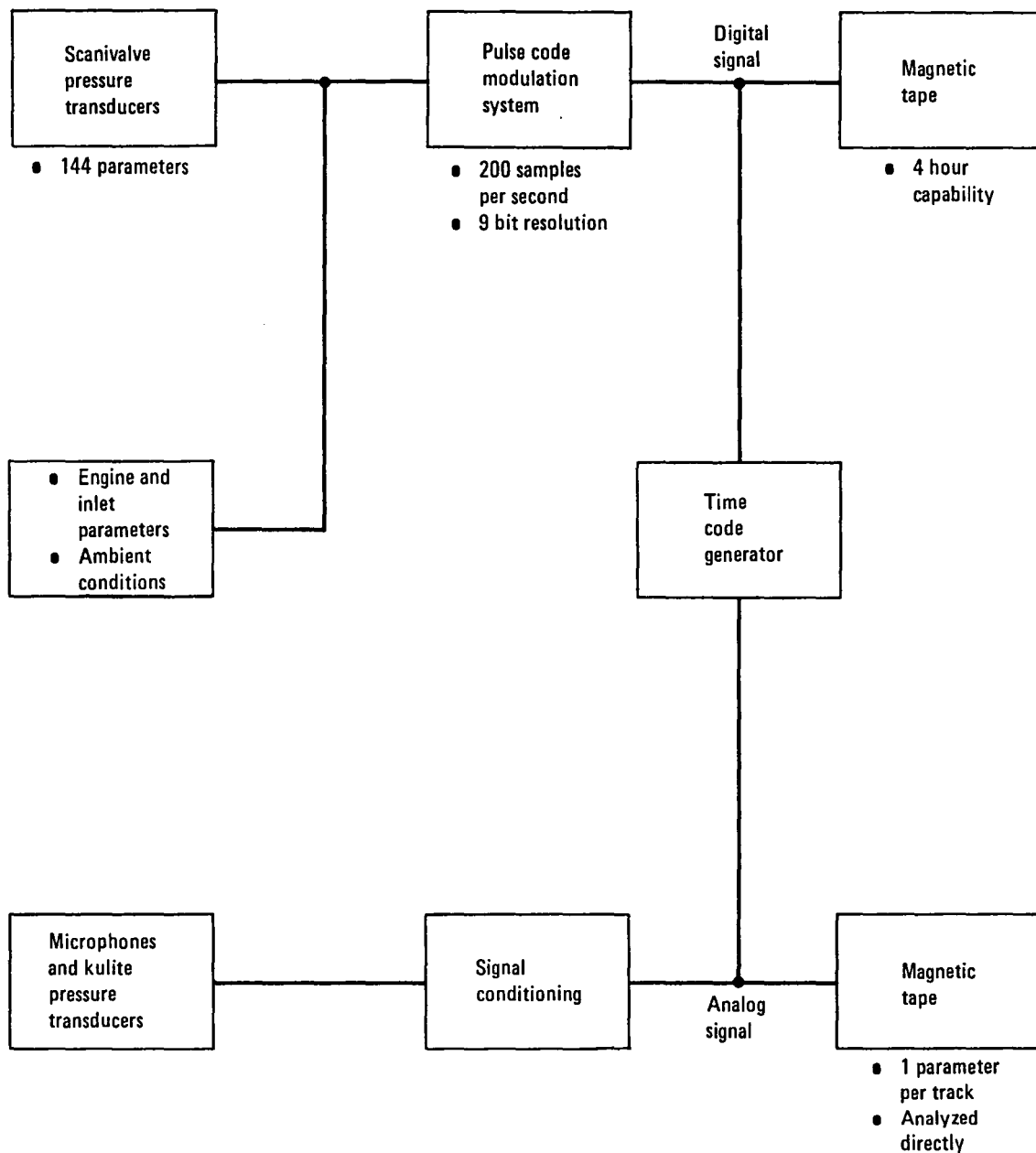


Figure 2. Data recording system schematic.

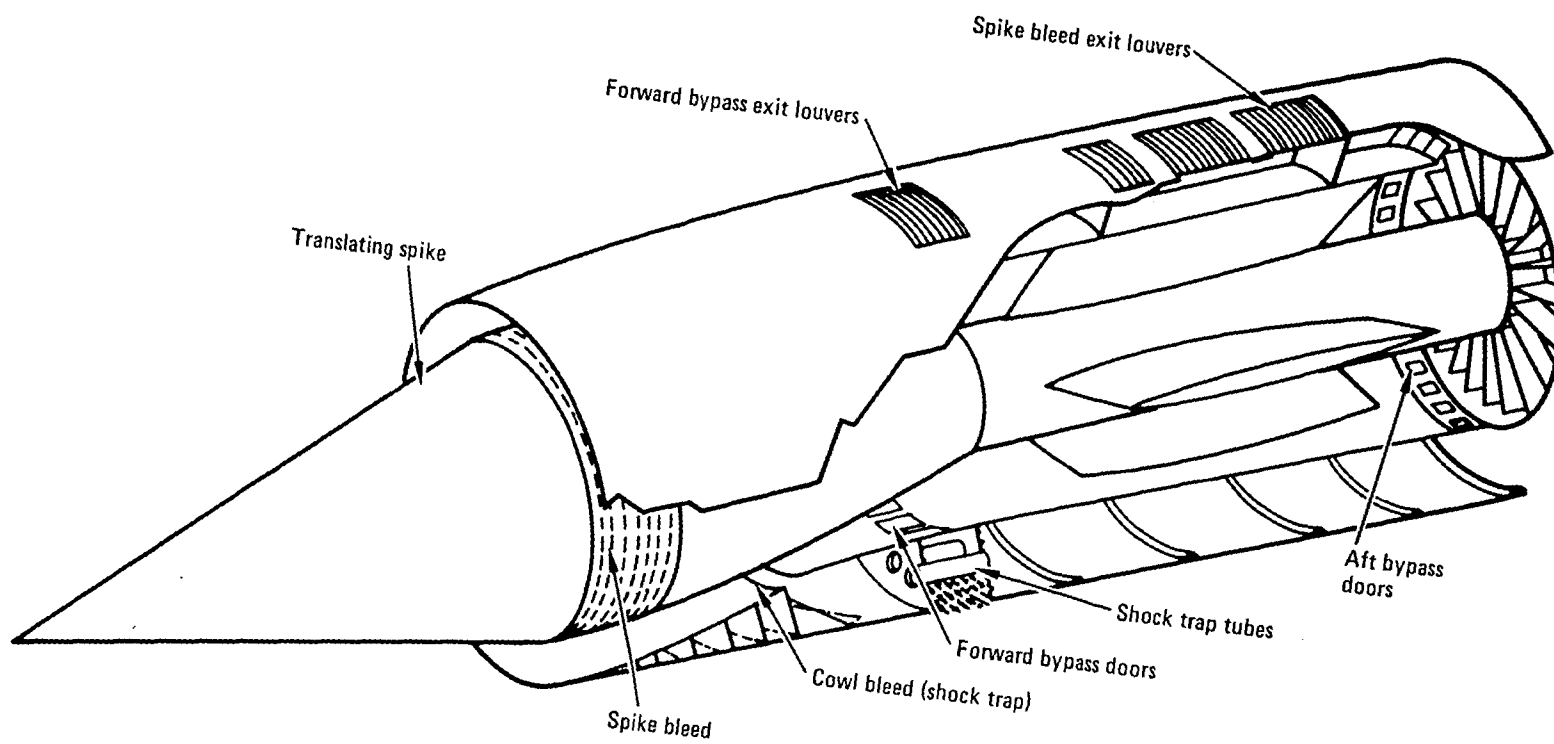


Figure 3. YF-12 Inlet

TABLE 1. INLET INSTRUMENTATION LOCATIONS

SENSOR	STATION* (x/r _c)	ANGLE** (DEG)	SURFACE
S1	-0.08	13	SPIKE ↓
K1	-0.08	2.9	
R1	0.069	30.2	
S2	0.069	22	
S11	0.069	112	
S12	0.069	202	
S13	0.069	292	
S3	0.137	0	
S4	0.403	3.74	
S5	0.639	0	
S6	0.886	2.3	
K3	0.886	7.24	
S7	1.014	0	
S8	1.146	0	
S9	1.509	19.7	
R2	1.464	42.8	
S10	1.845	1.0	
K5	1.845	4.5	
S28	-	-	
S24	3.504	-	
R6	3.504	-	
K14	5.094	-	
S27	5.300	-	
			(INSIDE SPIKE) ↓
S14	0.031	66.4	COWL ↓
R3	0.07	53.0	
S15	0.186	66.4	
S16	0.415	65.9	
S17	0.847	65.9	
S25	0.847	39.3	
K6	0.847	65.9	
S18	1.174	65.9	
S19	1.459	32.8	
S20	1.540	31.7	
R4	1.538	37.1	
K8	1.824	6.0	
S21	1.827	13.1	
S22	2.784	-	
K10	2.784	-	
S23	3.298	-	
R5	3.327	0	
K12	5.083	-	
S26	5.289	-	

* Referenced to cowl lip with spike in forward position.

** Referenced to zero degrees at top looking downstream, clockwise positive.

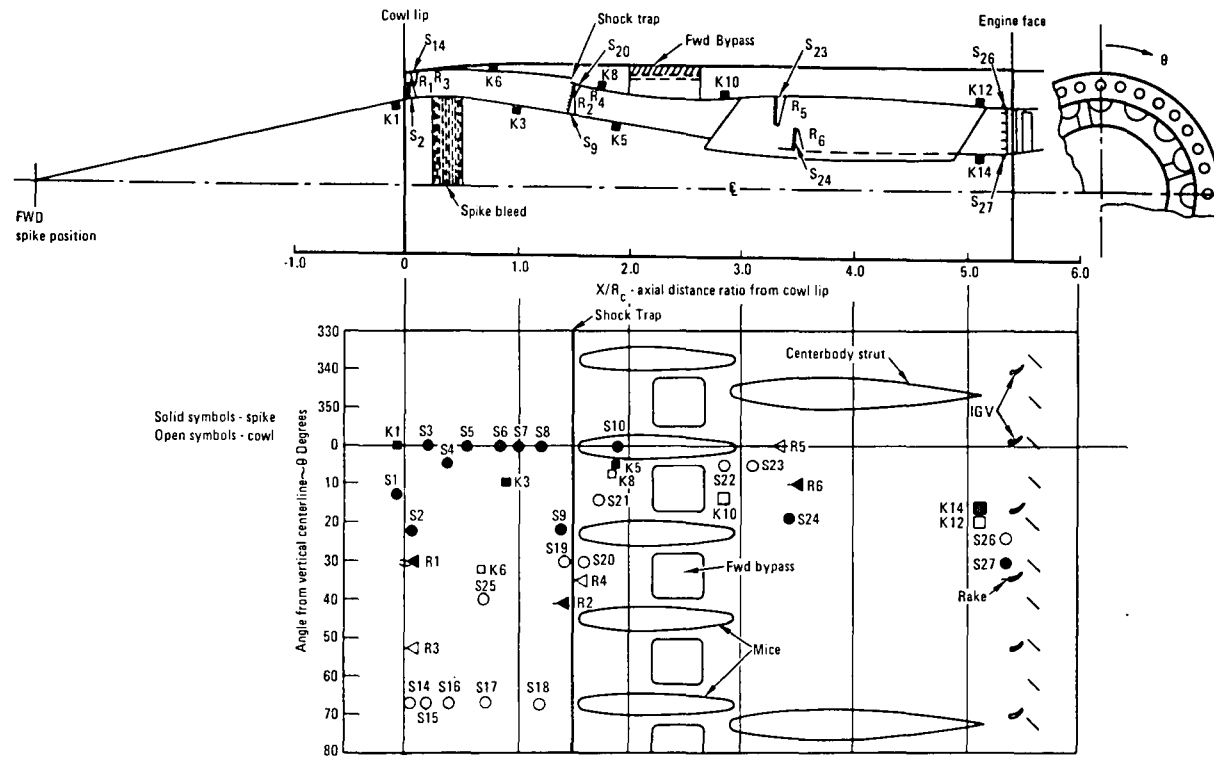


Figure 4. Sketch of instrumentation locations inside the inlet - spike forward.

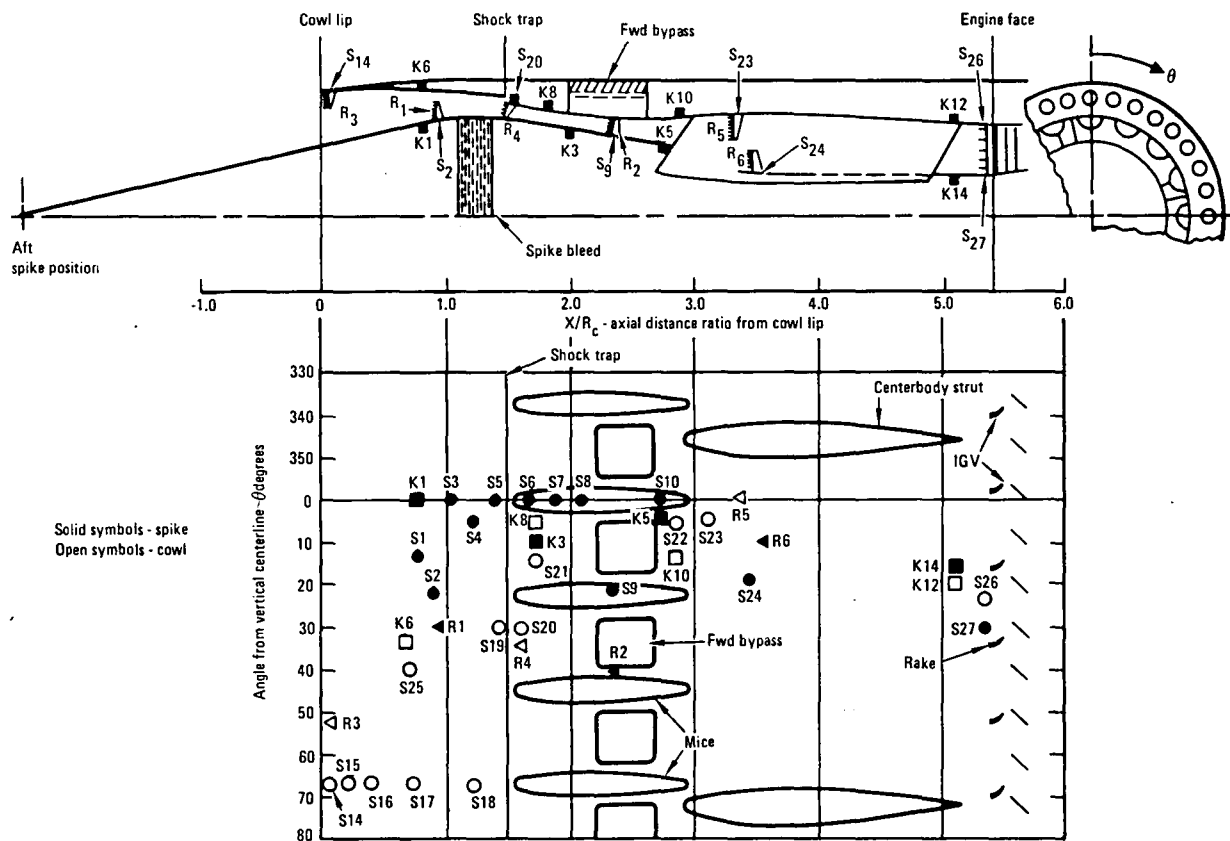


Figure 5. Sketch of instrumentation locations inside the inlet - spike aft.

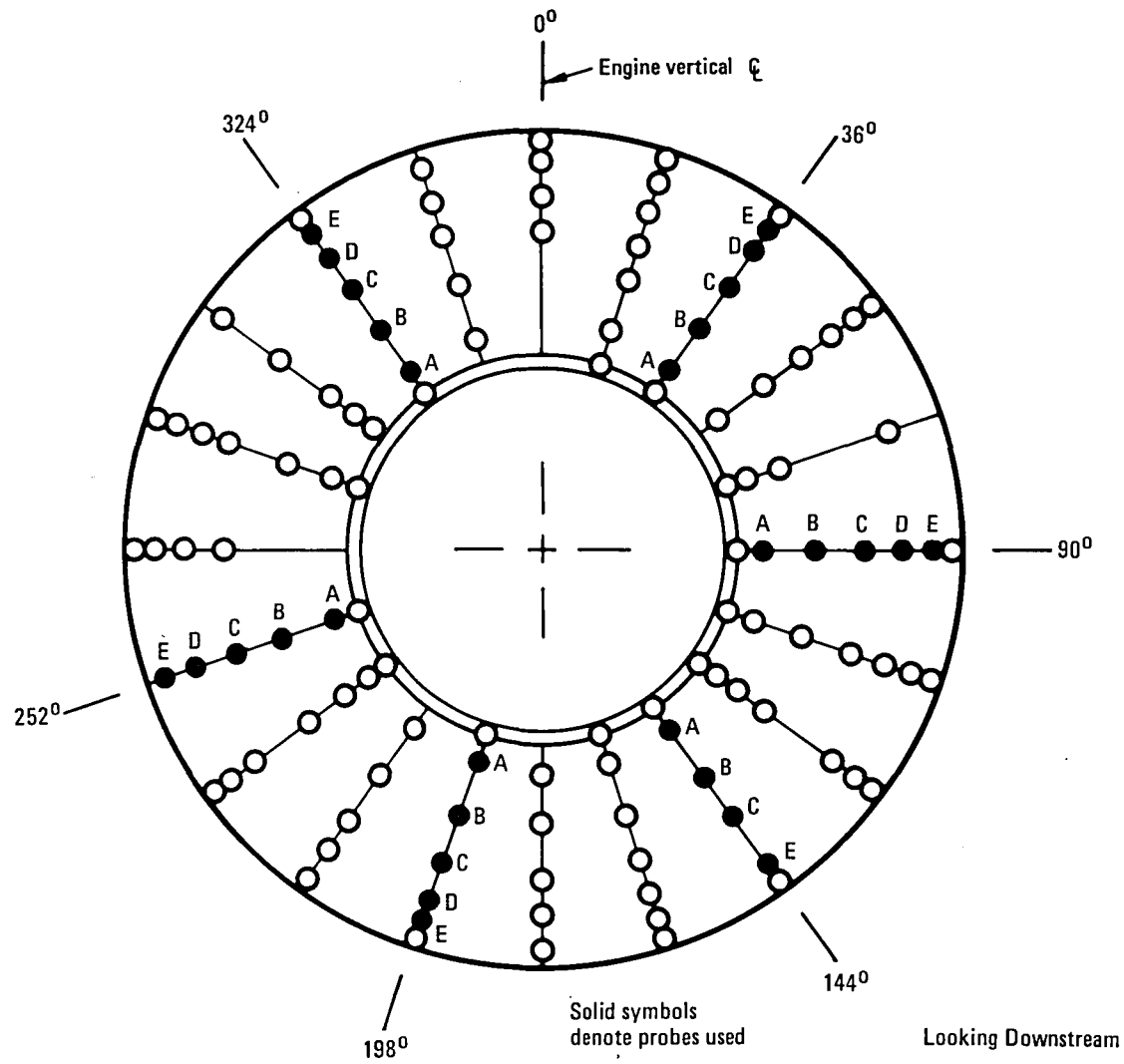


Figure 6. Inlet guide vane total pressure probe locations.

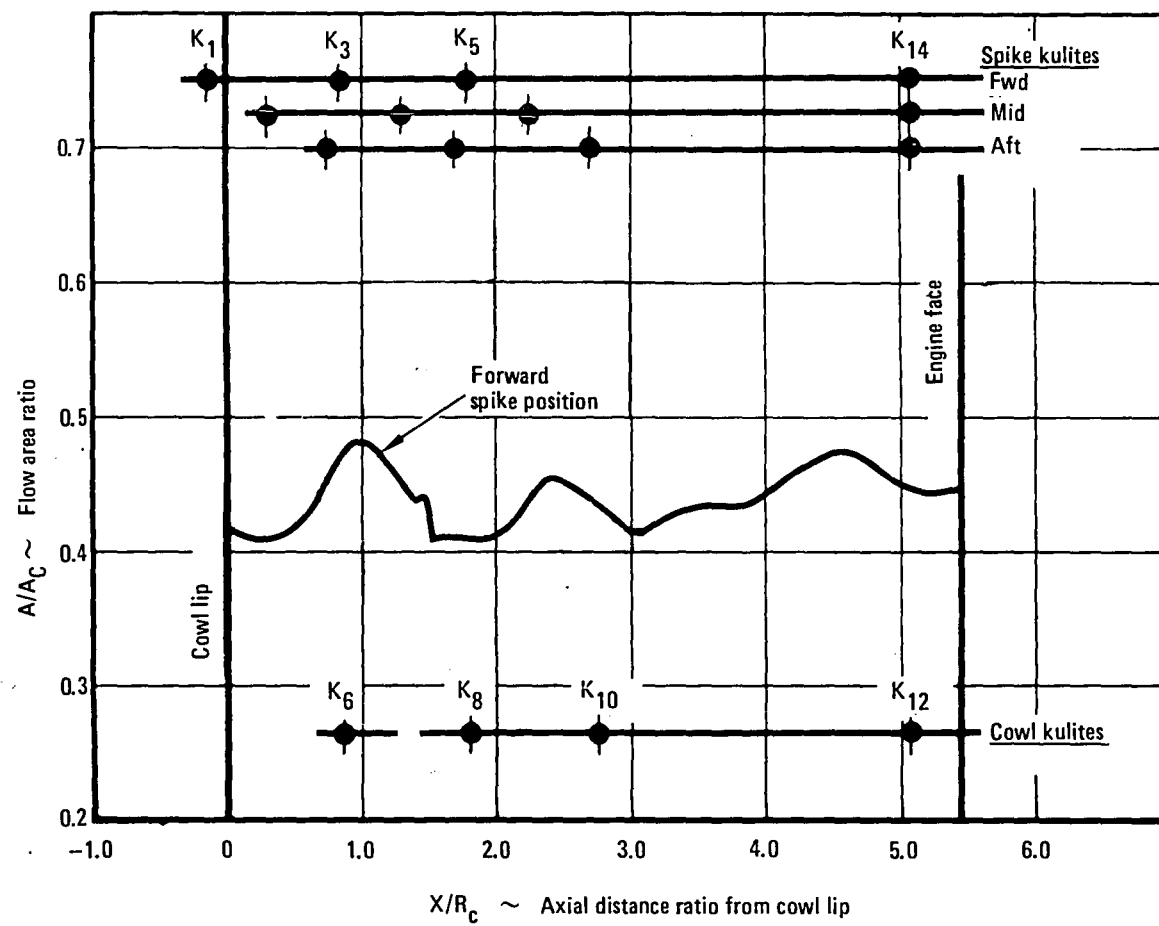


Figure 7. YF-12 inlet area distribution.

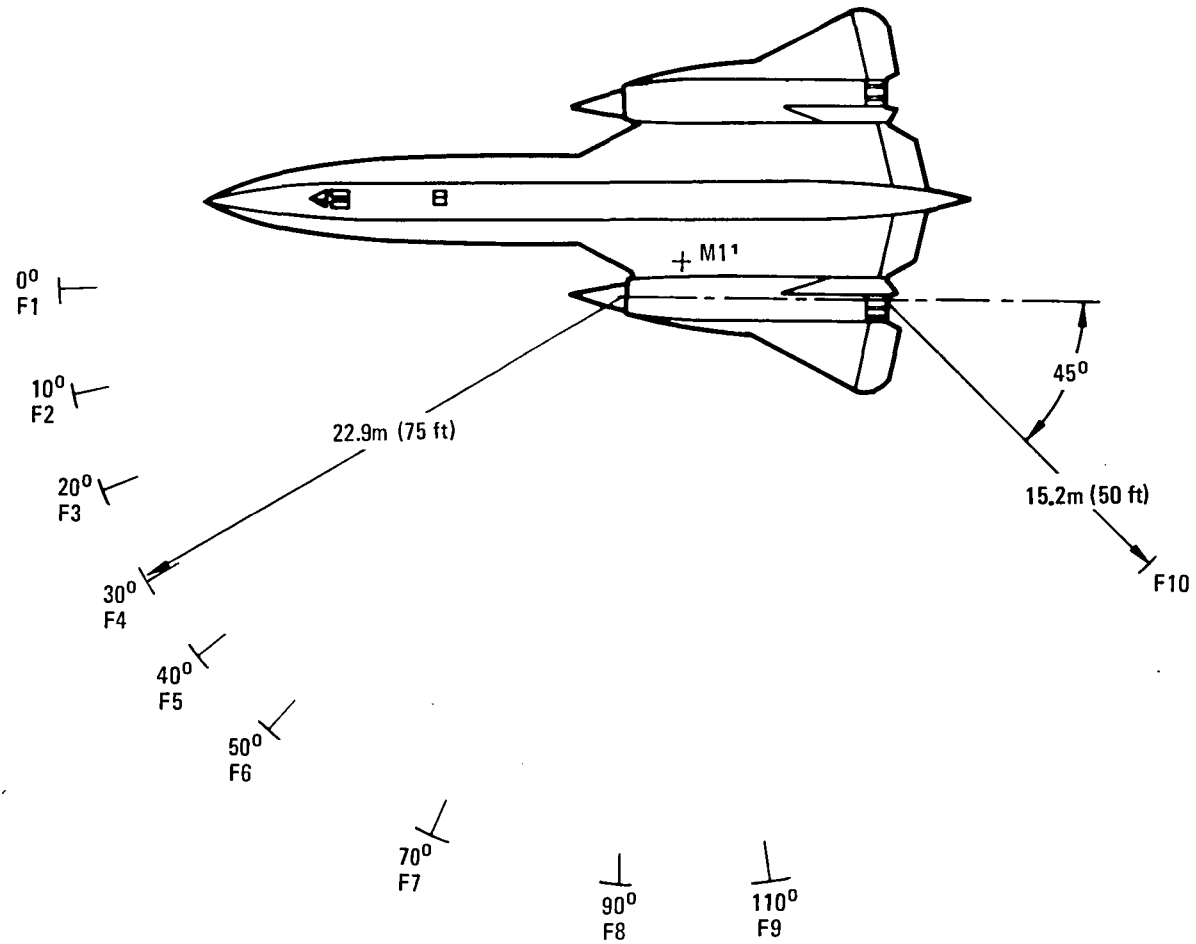


Figure 8. YF-12 external microphone locations.

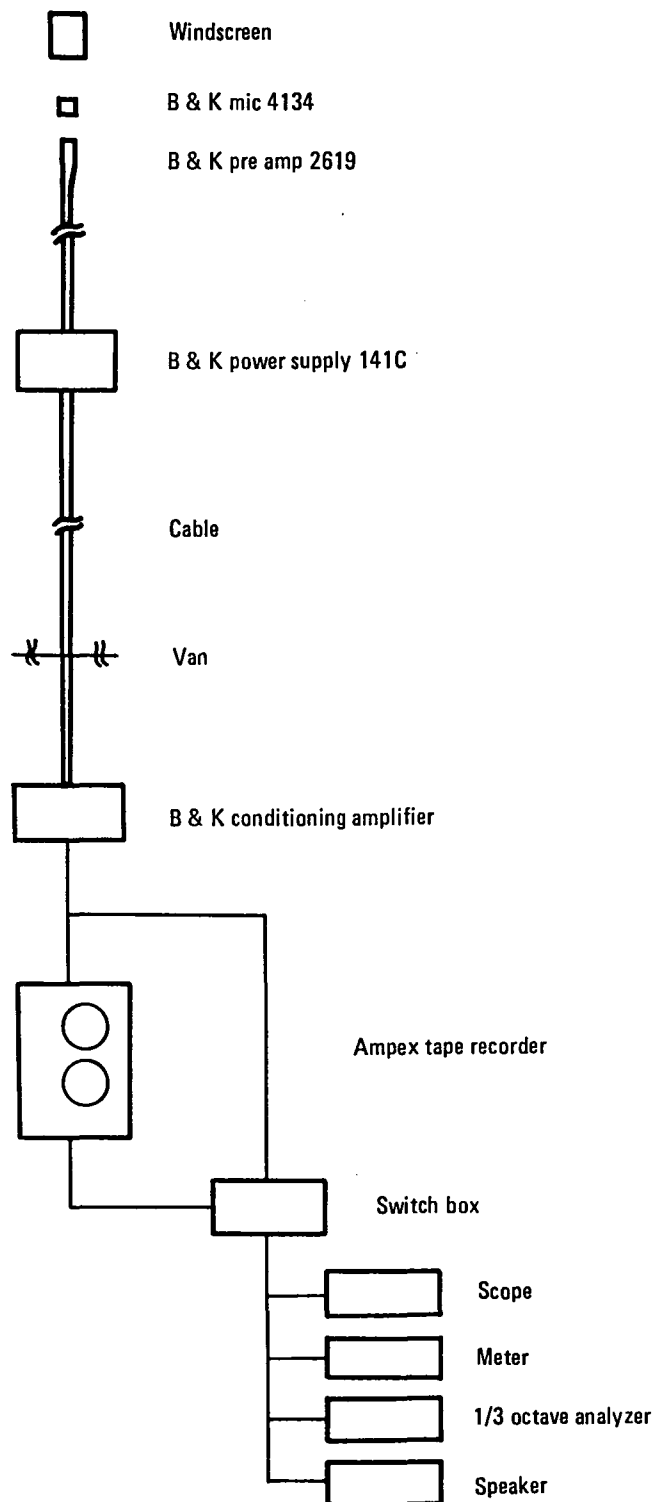


Figure 9. Bruel and Kjaer microphone system.

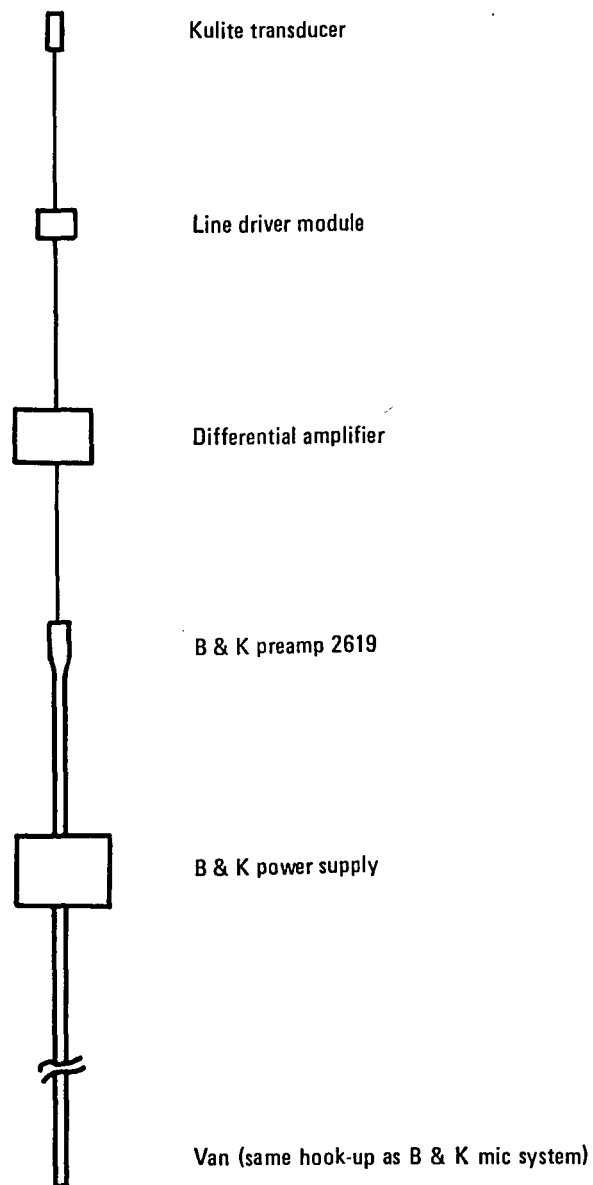


Figure 10. Kulite system.

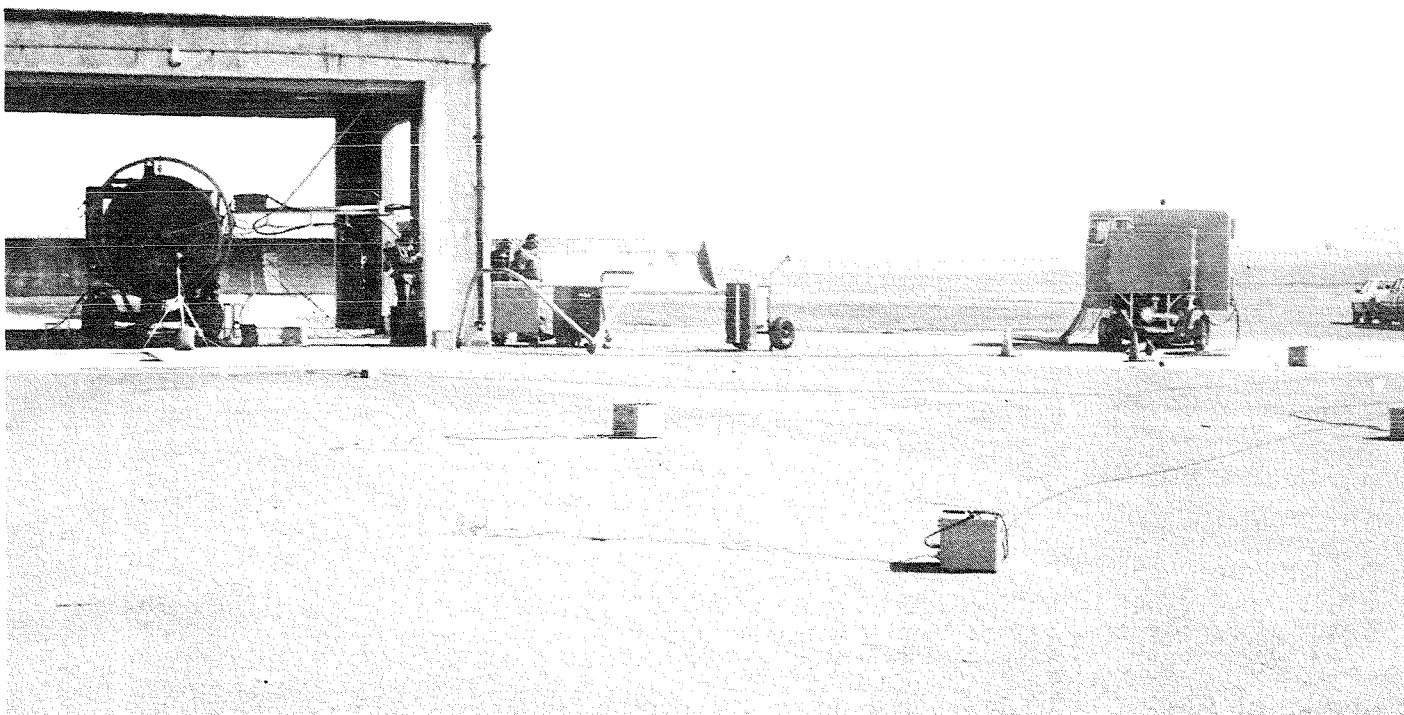


Figure 11. Test arrangement for bellmouth inlet/J58 engine acoustic tests.

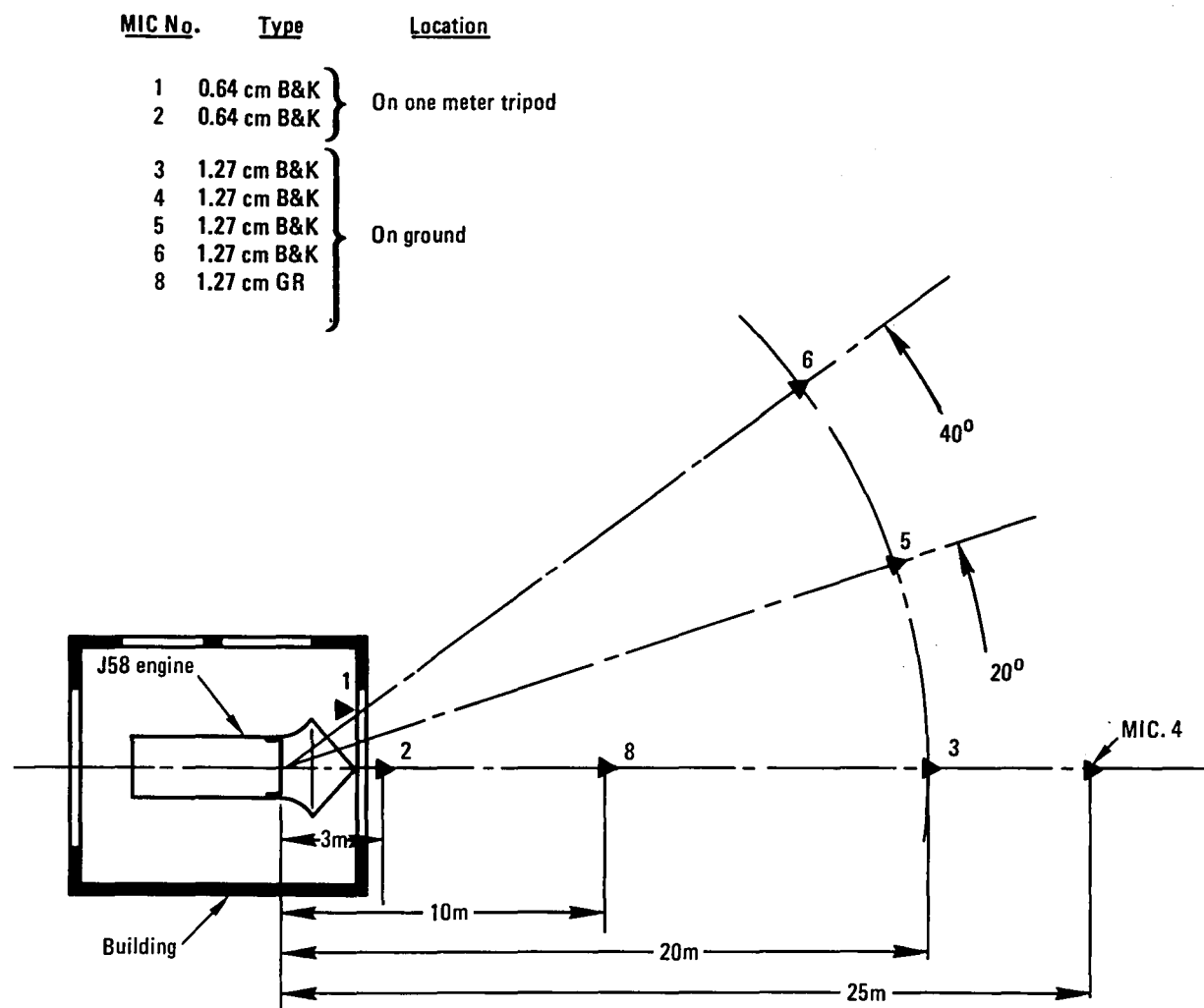


Figure 12. Microphone locations for bellmouth inlet/J58 engine acoustic tests.

TEST CONDITIONS

Test Sites

The aeroacoustic tests with the YF-12 aircraft were conducted at NASA-Dryden Flight Research Center, Edwards, California. The site was a flat concrete taxiway that was free of obstructions. (See figure 1.) Throughout the testing there was negligible wind. The relative humidity varied from 26 to 33 percent. Atmospheric pressure and temperature for each test run are given in Appendix A.

The acoustic tests with the bellmouth inlet/J58 engine were conducted at Beale Air Force Base, California. The site was an engine test cell with a surrounding flat paved surface. This is shown in figure 11. Wind speed was 4 to 5 m/sec, and relative humidity was about 80 per cent. Atmospheric pressure and temperature were 0.995 atm and 282 degrees kelvin, respectively.

Test Variables

In the YF-12 tests, the primary variables were engine speed, spike position, forward bypass opening, and spike bleed opening. The aft bypass was closed and the shock trap tubes had check valves to prevent reverse flow. The engine speed was varied in increments of 200 rpm from 3800 to 5400 rpm, and in increments of 100 rpm from 5400 to 6600 rpm. Only the left engine was run during the tests. The spike was in the forward, midway, or aft position. The forward bypass was either open or closed. On some runs, the spike bleed was closed by taping over the spike bleed perforations from inside the spike.

Each steady-state test run was defined by a single combination of engine speed, spike position, forward bypass opening, and spike bleed opening. A particular test run was performed by first fixing spike position, forward bypass opening, and spike bleed opening. The pilot then adjusted engine speed to the desired value. With engine speed fixed, acoustic and aerodynamic data were recorded for approximately 30 seconds.

There was a total of 198 steady-state test runs. In addition, there were eighteen engine sweeps, in which engine speed was slowly increased from idle to 6600 rpm and then returned to idle. These sweeps were made for all the combinations of spike position, forward bypass opening, and spike bleed opening that were tested at steady-state. Table 2 relates the run numbers and the values of the test variables. The dates of the test runs were as follows:

<u>Ground Run</u>	<u>Date</u>	<u>Run</u>
1	9/12/79	6-34
2	9/13/79	35-86
3	9/20/79	87-144
4	9/21/79	145-216

For the bellmouth inlet/J58 engine tests, the only test variable was engine speed. Table 3 shows the run numbers and the corresponding engine speeds. These tests were performed on March 26, 1980.

TABLE 2. RUN NUMBERS FOR YF-12 AEROACOUSTIC TESTS

ENGINE SPEED (RPM)	SPIKE FORWARD		SPIKE MIDWAY		SPIKE AFT	
	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED
IDLE	35, 145, 187	7, 93	55	70	124	63
4000	30, 36	8, 94				64
4200	37, 146, 188	9, 95, 157	115, 165, 199	71	125, 173, 208	65, 181
4300					126	
4400	38	10, 96			127	66, 182
4500					128	
4600	39, 147, 189	11, 97	116, 200	72	129, 209	183
4700					130	
4800	40	12, 98			131	184
4900					132	
5000	31, 41, 87, 142, 148, 190	13, 99, 158	56, 166, 201	73	133, 174, 210	69, 185
5200	42	15, 100		74		
5400	43, 149, 191	14, 101	117	75	134	
5500	143	16, 102		76		
5600	44, 150, 192	17, 103, 159	57, 167, 202	77	175, 211	
5700	144	18, 104		78		
5800	45, 151, 193	19, 105	118	79	135	
5900	46	20, 106		80		
6000	32, 47, 88, 152, 194	21, 107, 160	58, 168, 203	81	136, 176, 212	
6100	48	22, 108	119	82		
6200	49, 89, 153, 195	23, 109, 161	59, 169, 204	83	137, 177, 213	
6300	50	24, 110	120, 121	84		
6400	51, 90, 154, 196	25, 111, 162	60, 170, 205	85	138, 178, 214	
6500	52	26, 112	122			
6600	33, 53, 91, 155, 197	27, 113, 163	61, 171, 206		139, 140, 179, 215	
SWEEP	29, 54, 92, 156, 198, 34	6, 28, 114, 164	62, 123, 172, 207	86	141, 180, 216	186

- Notes: 1. Runs 145-216, spike bleed taped
2. Runs 187-216, bypass louvers removed

TABLE 3. RUN NUMBERS FOR BELLMOUTH INLET/J58 ENGINE
ACOUSTIC TESTS AT BEALE AFB

RUN NO.	ENGINE SPEED (RPM)
1	3640
2	4000
3	4200
4	4400
5	4500
6	4600
7	4800
8	5000
9	5200
10	5400
11	5500
12	5600
13	5800
14	6000
15	6100
16	6200

RUN NO.	ENGINE SPEED (RPM)
17	6300
18	6400
19	6500
20	6600
21	6700

DATA REDUCTION

Aerodynamic Data Reduction

The aerodynamic data reduction procedure included computation of the following quantities: static pressures along the cowl and spike; total pressures and Mach numbers at the rakes; Mach number, total pressure recovery, and mass flow at the cowl lip; and Mach numbers and total pressure recovery at the engine face.

The recorded conditions for each inlet configuration and engine speed were: run and tape number, start and stop time, flight date and number, engine speed, spike position, bypass opening, ambient pressure and temperature, relative humidity, and 128 pressures from three scanivalves.

After computing corrected engine speed, the engine corrected airflow ratio was determined from figure 13.

Total pressure ratios, P_T/P_O , and Mach numbers, M , were computed for the rake probes using the following procedure:

Given measured static pressure P and measured pitot pressure P'_T , if $P/P'_T \geq 0.5283$, the flow was subsonic.

Then,

$$P_T/P_O = P'_T/P_O,$$

$$\text{and} \quad M^2 = 5 \left((P/P_T)^{-2/7} - 1 \right)$$

The ratio of specific heats for air has been taken as 1.4.

If $P/P'_T < 0.5283$, the flow was supersonic. (This case did not occur during the tests.)

Then,

$$P'_T/P = (6M^2/5)^{3.5} (6/(7M^2 - 1))^{2.5}.$$

The solution for M was by iteration. Thus,

$$P'_T/P_T = (6M^2/(M^2 + 5))^{3.5} (6/(7M^2 - 1))^{2.5}.$$

and,

$$P_T/P_O = (P'_T/P)(P/P_O)/(P'_T/P_T)$$

Probe positions are given in tables 4 and 5. The coordinate system for the rake or static pressure tap location is given in figure 14. The positions of the static taps are given in table 6.

Area-weighted engine face total pressure recovery was computed by the following equation:

$$\begin{aligned}
 P_{T_{EF}}/P_o &= \left(\sum_{i=A36}^{E36} (A/A_{EF})_i (P_T/P_o)_i + \sum_{i=A90}^{E90} (A/A_{EF})_i (P_T/P_o)_i \right. \\
 &+ \sum_{i=A144}^{E144} (A/A_{EF})_i (P_T/P_o)_i + \sum_{i=A198}^{E198} (A/A_{EF})_i (P_T/P_o)_i \\
 &\left. + \sum_{i=A252}^{E252} (A/A_{EF})_i (P_T/P_o)_i + \sum_{i=A324}^{E324} (A/A_{EF})_i (P_T/P_o)_i \right) / 6
 \end{aligned}$$

where $(A/A_{EF})_i$ was determined from the following:

<u>RAKES</u>	<u>PROBE</u>	<u>$(A/A_{EF})_i$</u>
All six	A	0.20036
engine	B	0.19963
face rakes	C	0.19926
	D	0.19954
	E	0.20121

Table 5 and figure 6 give the identification and location of the engine face probes.

Similarly, area-weighted engine face Mach number was computed by:

$$\begin{aligned}
 \bar{M} &= \left(\sum_{i=A36}^{E36} (A/A_{EF})_i M_i + \sum_{i=A90}^{E90} (A/A_{EF})_i M_i + \sum_{i=A144}^{E144} (A/A_{EF})_i M_i \right. \\
 &+ \sum_{i=A198}^{E198} (A/A_{EF})_i M_i + \sum_{i=A252}^{E252} (A/A_{EF})_i M_i + \left. \sum_{i=A324}^{E324} (A/A_{EF})_i M_i \right) / 6
 \end{aligned}$$

Engine face distortion was given by:

$$\Delta P_{T/P_{T_{EF}}} = ((P_T/P_o)_{\max} - (P_T/P_o)_{\min}) / (P_{T_{EF}}/P_o)$$

where $(P_T/P_o)_{\max}$ and $(P_T/P_o)_{\min}$ are the maximum and minimum values, respectively, of the engine face total pressure ratios.

The following equation gave M_{EF} :

$$(W \theta^{0.5} / \delta)_{EF} / A_C (A_C / A_{EF}) = P_{STD} g (1.4 / RT_{STD})^{0.5} M_{EF} (1 + M_{EF}^2 / 5)^{-3}$$

where $A_C / A_{EF} = 2.277$.

Then,

$$q_{EF} = 0.7 M_{EF}^2 (1 + M_{EF}^2 / 5)^{-7/2} (P_{T_{EF}} / P_o) P_o$$

The circumferential distortion, K_θ , was defined by:

$$K_\theta = \left(\sum_{i=1}^5 K_{\theta_i} / (r_i / r_c) \right) / \left(\sum_{i=1}^5 1 / (r_i / r_c) \right)$$

where

$$K_{\theta_i} = (A_i^2 + B_i^2)^{0.5} / q_{EF}$$

$$A_i = \left(\sum_{j=1}^6 P_{T_{i,j}} \Delta \theta_j \cos \theta_j \right) / 180$$

$$B_i = \left(\sum_{j=1}^6 P_{T_{i,j}} \Delta \theta_j \sin \theta_j \right) / 180$$

$$\Delta \theta_j = (\theta_{j+1} - \theta_{j-1}) / 2$$

The preceding coefficients are, in degrees:

$\Delta \theta_1 \cos \theta_1 = 50.968$	$\Delta \theta_1 \sin \theta_1 = 37.031$
$\Delta \theta_2 \cos \theta_2 = 0$	$\Delta \theta_2 \sin \theta_2 = 54.000$
$\Delta \theta_3 \cos \theta_3 = -43.687$	$\Delta \theta_3 \sin \theta_3 = 31.741$
$\Delta \theta_4 \cos \theta_4 = -51.357$	$\Delta \theta_4 \sin \theta_4 = -16.687$
$\Delta \theta_5 \cos \theta_5 = -19.468$	$\Delta \theta_5 \sin \theta_5 = -59.917$
$\Delta \theta_6 \cos \theta_6 = 58.249$	$\Delta \theta_6 \sin \theta_6 = -42.321$

Table 7 and figure 6 give the definition of the engine face probe matrix. The five rings of probes and six rakes were designated by subscripts i and j, respectively.

K_{θ_R} is the value of K_{θ} at $P_{T_{i,j}} = P_{T_{EF}}$

Then,

$$\Delta K_{\theta} = K_{\theta} - K_{\theta_R}$$

Radial Distortion, K_r , was defined by:

$$K_r = \left(\sum_{i=1}^5 K_{r_i} / (r_i / r_c)^{2.8} \right) / \left(\sum_{i=1}^5 1 / (r_i / r_c)^{2.8} \right)$$

where,

$$K_{r_i} = |P_{T_{EF}} - \overline{P_{T_i}}| / q_{EF}$$

and,

$$\overline{P_{T_i}} = \left(\sum_{j=1}^6 P_{T_{i,j}} \right) / 6$$

and,

$$P_{T_{EF}} = (P_{T_{EF}} / P_o) P_o$$

The combined distortion, K_a , was:

$$K_a = \Delta K_{\theta} + K_r$$

The cowl mass flow ratio was computed using Rakes 1 and 3. Constant total temperature, constant static pressure for a given rake, and axially symmetric flow were assumed.

$$m_{CL} / m_i^* = (W_{CL,R3} / A_C + W_{CL,R1} / A_C) (\theta^{0.5} / \delta)_{EF} (P_{T_{EF}} / P_o) / ((W \theta^{0.5} / \delta A)_T^* (A_T / A_C))$$

where

$$W_{CL,R3}/A_C = 0.5 \sum_{i=1}^{16} ((W/A)_{i-1} + (W/A)_i)_{R3} \Delta A_{i-1,i}/A_C$$

$$W_{CL,R1}/A_C = 0.5 \sum_{i=1}^{6.6} ((W/A)_{i-1} + (W/A)_i)_{R1} \Delta A_{i-1,i}/A_C$$

$$(W/A)_0 = 0$$

For the i th probe

$$(W/A)_i = g(1.4/RT_o)^{0.5} M_i (1 + M_i^2/5)^{-3} P_{T_i}$$

$\Delta A_{i-1,i}/A_C$ is given by table 8. A_T/A_C is from the table below.

SPIKE POSITION	SPIKE TRANSLATION X/r_c	THROAT TO CAPTURE AREA RATIO - A_T/A_C
FORWARD	0.862	0.41
MIDWAY	0.431	0.33
AFT	0.0	0.23

The average total pressure recovery, $P_{T_{CL}}/P_o$, and Mach number, M_{CL} , at cowl lip rake stations R_1 and R_3 were computed next.

First, the total flow rate at the cowl lip was given by:

$$W_{CL}/A_C = W_{CL,R3}/A_C + W_{CL,R1}/A_C$$

Also, the static pressure at the cowl lip was assumed to be the average of S2 and S14. Thus,

$$P_{CL}/P_o = 0.5 ((P/P_o)_{S2} + (P/P_o)_{S14})$$

M_{CL} was then calculated from the following form of the continuity equation:

$$(W_{CL}/A_C) (A_C/A_{CL}) = g (1.4/RT_o)^{0.5} (P_{CL}/P_o) P_o M_{CL} (1 + M_{CL}^2/5)^{0.5}$$

where A_{CL}/A_C is 0.4224. Then, with M_{CL} known:

$$P_{T_{CL}}/P_o = (1 + M_{CL}^2/5)^{3.5} (P_{CL}/P_o)$$

Engine and additive mass flow ratios were:

$$m_{ENG}/m_T^* = ((W\theta^{0.5}/\delta)_{EF}/A_C) (P_{T_{EF}}/P_o) / ((W\theta^{0.5}/\delta A)_T^* (A_T/A_C))$$

$$m_{ADD}/m_T^* = m_{ENG}/m_T^* - m_{CL}/m_T^*$$

To obtain an approximate Mach number at the cowl lip, while excluding the lip separated flow, the average Mach number at Rake R1 was computed using:

$$\bar{P}_{T,R1} = \frac{\sum_{P1}^{P9} P_{T_{R1,Pi}}}{9}$$

$$\bar{M}_{R1}^2 = 5 ((\bar{P}_{T_{R1}}/P_{S2})^{2/7} - 1)$$

Rake R1 was outside the separated flow region. Similarly, an approximate Mach number at the cowl bleed slot station was computed using Rakes R2 and R4:

$$\bar{P}_S = (P_{S20} + P_{S9})/2$$

$$\bar{P}_{T_{R2,R4}} = (\sum_{P1}^{P5} P_{T_{R2Pi}} + \sum_{P1}^{P12} P_{T_{R4Pi}})/17$$

$$\bar{M}_{R2,R4}^2 = 5 ((\bar{P}_{T_{R2,R4}}/\bar{P}_S)^{2/7} - 1)$$

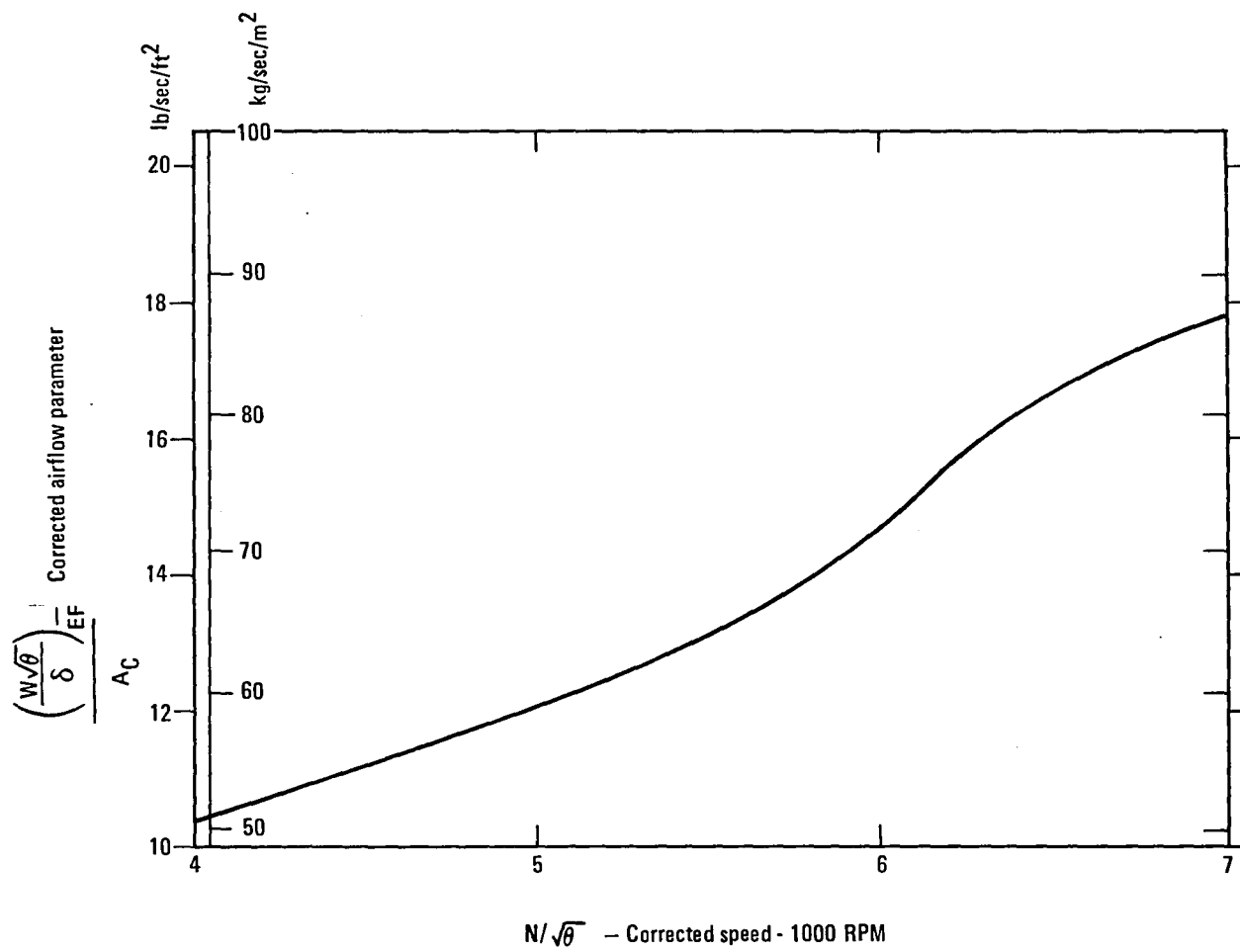
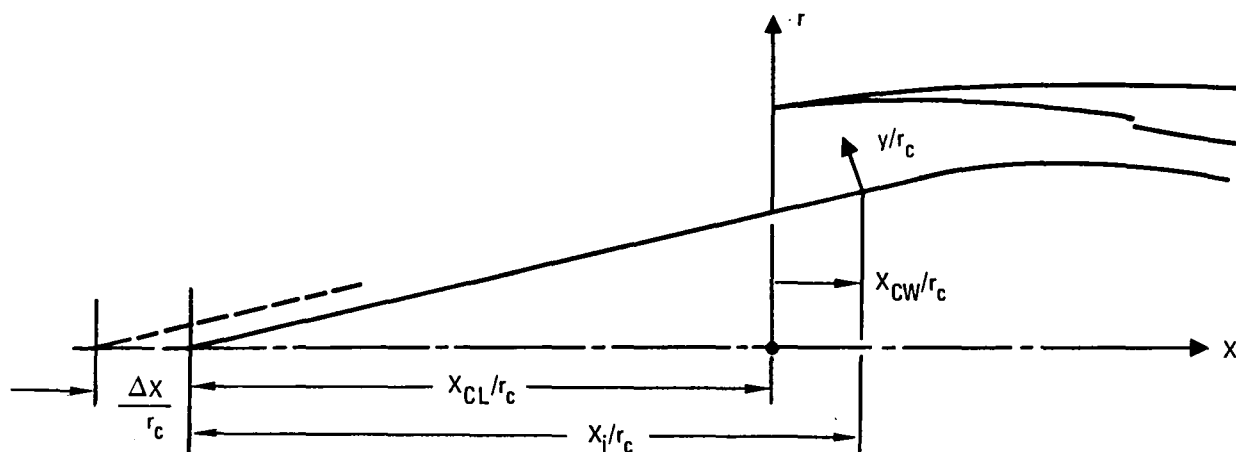


Figure 13. Engine corrected air flow rate parameter.



X_i/r_c Distance ratio from spike tip to rake or tap on spike

X_{CL}/r_c Distance ratio from spike tip to cowl lip

X_{CW}/r_c Distance ratio from cowl lip to rake or tap on spike

$\Delta X/r_c$ Distance ratio spike is translated forward from design position

y/r_c Normal distance ratio of rake probes from spike surface

Figure 14. Coordinate system for rake or static pressure tap location.

TABLE 4. RAKE INSTRUMENTATION

RAKE	STATIC P	PITOT P_T	PROBE POSITION $\sim \frac{x_{cw}}{r_c}$	PROBE HEIGHT $\sim \frac{y}{r_c}$
R1	S2	R1P1	$3.340 - (2.409 + \Delta x/r_c)$	0.01021
		R1P2		0.01362
		R1P3		0.01702
		R1P4		0.02042
		R1P5		0.03064
		R1P6		0.04459
		R1P7		0.06910
		R1P8		0.10961
		R1P9		0.14501
R3	S14	R3P1	0.07	0.01021
		R3P2		0.01702
		R3P3		0.02723
		R3P4		0.03438
		R3P5		0.04493
		R3P6		0.05174
		R3P7		0.06195
		R3P8		0.06876
		R3P9		0.07761
		R3P10		0.08578
		R3P11		0.09463
		R3P12		0.10314
		R3P13		0.12084
		R3P14		0.13786
		R3P15		0.15488
		R3P16		0.17292
R2	S9	R2P1	$4.735 - (2.409 + \Delta x/r_c)$	0.01055
		R2P2		0.05549
		R2P3		0.10621
		R2P4		0.16271
		R2P5		0.21411
R4	S20	R4P1	1.538	0.01021
		R4P2		0.01702
		R4P3		0.02723
		R4P4		0.03438
		R4P5		0.04493
		R4P6		0.05174
		R4P7		0.06195
		R4P8		0.06876
		R4P9		0.07761
		R4P10		0.08578
		R4P11		0.09463
		R4P12		0.10314
R6	S24	R6P1	3.504	0.00340
		R6P2		0.00681
		R6P3		0.01021
		R6P4		0.01362
		R6P5		0.01702
		R6P6		-
		R6P7		-
		R6P8		0.0514
		R6P9		0.06842
		R6P10		0.08578
		R6P11		0.1205
		R6P12		0.1724

TABLE 4. RAKE INSTRUMENTATION (Continued)

RAKE	STATIC P	PITOT P_T	PROBE POSITION $\sim \frac{x_{cw}}{r_c}$	PROBE HEIGHT $\sim \frac{y}{r_c}$
R5	S23	R5P1 R5P2 R5P3 R5P4 R5P5 R5P6 R5P7 R5P8 R5P9 R5P10 R5P11	3.327	0.00885 0.013616 0.017361 0.02451 0.031317 0.044933 0.06978 0.110631 0.144671 0.17905 0.227729

TABLE 5. ENGINE FACE INSTRUMENTATION

RAKE	STATIC P	PITOT - P_T'	PROBE POSITION $\sim \frac{x_{CW}}{r_c}$	PROBE DISTANCE FROM CENTER $\sim \frac{r}{r_c}$
R36	(S26 + S27)/2	A36	5.483	0.38193
		B36		0.48337
		C36		0.56677
		D36		0.63928
		E36		0.70463
R90		A90		0.38193
		B90		0.48337
		C90		0.56677
		D90		0.63928
		E90		0.70463
R144		A144		0.38193
		B144		0.48337
		C144		0.56677
		D144*		0.63928
		E144		0.70463
R198		A198		0.38193
		B198		0.48337
		C198		0.56677
		D198		0.63928
		E198		0.70463
R252		A252		0.38193
		B252		0.48337
		C252		0.56677
		D252		0.63928
		E252		0.70463
R324		A324		0.38193
		B324		0.48337
		C324		0.56677
		D324		0.63928
		E324		0.70463

*For D144 Let

$$(P_T')_{D144} = ((P_T')_{C144} + (P_T')_{E144})/2$$

TABLE 6. STATIC PRESSURE INSTRUMENTATION

SURFACE	TAP NO.	POSITION x_{cw}/r_c	ANGLE $\cdot \theta_i$ DEGREES
SPIKE	S1	$3.191 - (2.409 + \Delta x/r_c)$	13
	S2	$3.340 - (2.409 + \Delta x/r_c)$	22
	S11	$3.340 - (2.409 + \Delta x/r_c)$	112
	S12	$3.340 - (2.409 + \Delta x/r_c)$	202
	S13	$3.340 - (2.409 + \Delta x/r_c)$	292
	S3	$3.408 - (2.409 + \Delta x/r_c)$	0
	S4	$3.674 - (2.409 + \Delta x/r_c)$	3.74
	S5	$3.910 - (2.409 + \Delta x/r_c)$	0
	S6	$4.157 - (2.409 + \Delta x/r_c)$	2.3
	S7	$4.285 - (2.409 + \Delta x/r_c)$	0
	S8	$4.417 - (2.409 + \Delta x/r_c)$	0
	S9	$4.780 - (2.409 + \Delta x/r_c)$	19.7
	S10	$5.116 - (2.409 + \Delta x/r_c)$	1.02
	S24	3.504	-
	S28	$3.910 - (2.409 + \Delta x/r_c)$	-
COWL	S27	5.300	
	S14	0.034	66.4
	S15	0.186	66.4
	S16	0.415	65.9
	S17	0.847	65.9
	S25	0.847	39.3
	S18	1.174	65.9
	S19	1.459	32.8
	S20	1.540	31.7
	S21	1.827	13.1
	S22	2.784	-
	S23	3.298	-
	S26	5.289	-

TABLE 7. ENGINE FACE PROBE MATRIX

j-Rake	i-Probe	θ_j Deg	r_i/r_c	P_T	$PT_{i,j}$ DISTORTION
1	1	36	0.38193	A36	1,1
1	2	36	0.48337	B36	2,1
1	3	36	0.56677	C36	3,1
1	4	36	0.63928	D36	4,1
1	5	36	0.70463	E36	5,1
2	1	90	0.38193	A90	1,2
2	2	90	0.48337	B90	2,2
2	3	90	0.56677	C90	3,2
2	4	90	0.63928	D90	4,2
2	5	90	0.70463	E90	5,2
3	1	144	0.38193	A144	1,3
3	2	144	0.48337	B144	2,3
3	3	144	0.56677	C144	3,3
3	4	144	0.63928	D144	4,3
3	5	144	0.70463	E144	5,3
4	1	198	0.38193	A198	1,4
4	2	198	0.48337	B198	2,4
4	3	198	0.56677	C198	3,4
4	4	198	0.63928	D198	4,4
4	5	198	0.70463	E198	5,4
5	1	252	0.38193	A252	1,5
5	2	252	0.48337	B252	2,5
5	3	252	0.56677	C252	3,5
5	4	252	0.63928	D252	4,5
5	5	252	0.70463	E252	5,5
6	1	324	0.38193	A324	1,6
6	2	324	0.48337	B324	2,6
6	3	324	0.56677	C324	3,6
6	4	324	0.63928	D324	4,6
6	5	324	0.70463	E324	5,6

TABLE 8. COWL LIP RAKE AREA ELEMENTS

RAKE	PROBE NO.	RADIUS r/r_c	AREA INCREMENT $\Delta A_{i-1,i}/A_c$
3	0	1.00	
			0.02029
	R3P1	0.9898	
			0.01345
	2	0.98298	
			0.019968
	3	0.97277	
			0.013898
	4	0.9656	
			0.020167
	5	0.9551	
			0.013019
	6	0.94826	
			0.019259
	7	0.93805	
			0.012730
1	8	0.93124	
			0.016405
	9	0.92239	
			0.015005
	10	0.91422	
			0.01610
	11	0.90537	
			0.015337
	12	0.89686	
			0.031436
	13	0.87916	
			0.029637
	14	0.86214	
			0.029058
	15	0.84512	
			0.030166
	16	0.82708	
	R1P7	0.82872	
	R1P6.6*	0.82708	
			0.037082
	6	0.80435	
			0.022191
	5	0.79097	
			0.015959
	4	0.78031	
			0.005263
	3	0.77693	
			0.005241
	2	0.77355	
			0.005249
	1	0.77015	
			0.01562
	0	0.76	

* Interpolate for $P_{T6.6}$ and $M_{6.6}$

Acoustic Data Reduction

The acoustic data analysis system is shown in figure 15. Recorded data were played through the data analysis system and stored in the Data Central computer complex. The data were then fed into a Hewlett-Packard 8054A One-Third Octave Analyser which had an interface with the computer. The daily calibration for each system was transferred to the computer along with the data for that day, and both stored on digital tape for later processing. The corrections made to the data were gain changes, system frequency response corrections, and free-field corrections.

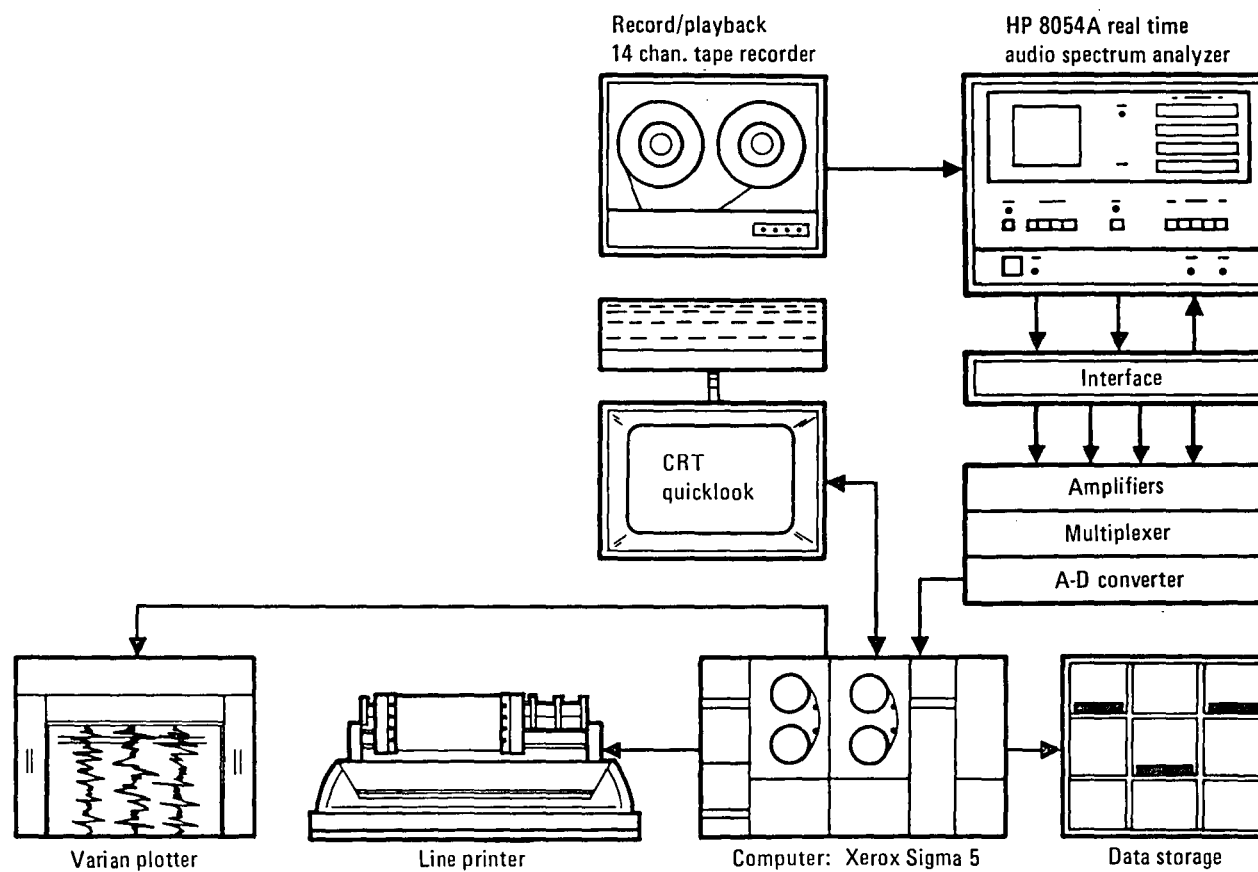


Figure 15. Schematic of acoustic data analysis system.

TEST RESULTS

Inlet Aerodynamic Behavior

Inlet aerodynamic characteristics in terms of engine face total pressure recovery, distortion, engine face Mach number, cowl lip total pressure recovery, cowl lip Mach number, and cowl lip mass flow ratio, are presented as functions of engine face mass flow ratio in figures 16 through 23 for the various test configurations. The engine mass flow ratios as functions of corrected engine speed are given in figure 24 for the three spike positions.

The effect of bypass position on inlet performance, given in figure 16 for spike forward and spike bleed open, shows that closing the bypass caused the engine face total pressure recovery, distortion, and cowl lip pressure recovery to decrease, and the cowl lip Mach number and cowl lip mass flow ratio to increase. These trends were expected, since closing the bypass caused more flow to pass through the inlet at the cowl lip where large lip losses occurred. The engine face Mach number increased from 0.2 to 0.5 as the engine mass flow ratio increased from 0.5 to 0.76.

Similar results were found for spike midway and spike bleed open, as shown in figure 17, except for engine total face pressure recovery. There was essentially no effect of bypass position on engine face total pressure recovery.

The effect of spike position on inlet characteristics is given in figure 18 for bypass open and spike bleed open. The engine face mass flow ratio was based on inlet throat area, which changed with spike position. The engine face total pressure recovery increased and the distortion decreased as the spike was translated from the forward to the aft position. This trend was expected since the Mach number at the cowl lip and the lip losses decreased as the spike was translated aft.

Similar results are given in figure 19 for the bypass closed and the spike bleed open.

The effect of closing the spike bleed on inlet conditions at the engine face was generally small. (See figures 20 through 23.) The cowl lip losses and cowl lip Mach number increased when the spike bleed was closed, however. This effect was greater when the bypass was also closed (figure 21).

Closing the bypass caused the Mach numbers near the cowl lip station and near the shock trap station to increase for spike forward. Also, closing the spike bleed caused the Mach numbers near the cowl lip to increase and Mach numbers near the shock trap to decrease for spike forward. This is shown in figure 25 where average Mach numbers from Rake R1 and average Mach numbers from Rakes R2 and R4 are given as functions of corrected engine speed. Rake R3 at the cowl lip station was not used because the flow was separated in this region. The trends are reasonable since closing the bypass or spike bleed forced more mass flow (higher Mach number) through the inlet at the cowl lip station. Furthermore, closing the spike bleed should have reduced the total mass flow (lower Mach number) passing through the inlet near the shock trap.

The effect of engine speed on inlet pressure distributions and rake Mach number profiles is presented in figure 26 for the spike forward, the bypass open, and the spike bleed open. Cowl and spike pressure distributions and Mach number profiles are given in parts (a), (b), and (c), respectively, of figure 26. Results show that the static pressures decreased and the Mach numbers increased with increases in engine speed. Separation at the cowl lip was evident by the low Mach numbers at the lip. The low Mach numbers just downstream of the spike bleed were apparently due to the low energy air that passed into the inlet through the spike bleed perforations.

The abrupt change in Mach numbers at the rake stations was due to using different wall static pressures for computing the Mach numbers. The static pressure S20 was used to compute Mach numbers on R4, while S9 was used for R2. Also, S14 was used to compute Mach numbers on R3, and S2 was used for R1. The low static pressure values at S20 are believed to have been caused by its close proximity to the shock trap lip. This low pressure did not persist across the flow passage, as can be seen by comparison of cowl and spike static pressure distributions. Thus, the computed Mach numbers on R4 are probably over-estimates.

The effect of bypass on inlet pressure distributions and rake Mach number profiles is given in figures 27 and 28 for spike forward, spike bleed open, and 6000 and 6600 rpm, respectively. Closing the bypass resulted in lowering the static pressure in the inlet and, in general, increasing the Mach numbers upstream of the bypass.

The effect of spike position on static pressure distributions and Mach number profiles is given in figure 29 for bypass open, spike bleed open, and 6000 rpm. As the spike was translated aft, the Mach number in the inlet throat region (Rakes 2 and 4) increased. In general, the pressures increased upstream of the shock trap and decreased downstream of the shock trap. The static pressures downstream of the shock trap were significantly lower for spike aft than for spike forward and midway, particularly at station 2.78 on the cowl. This was consistent with the presence of the bypass and with the change in inlet area distribution with spike position. The Mach number profiles at the engine face were essentially independent of spike position.

The effect of spike bleed closure on pressure distributions and Mach number profiles is given in figures 30 and 31 for spike forward, 6000 rpm, and bypass open and closed, respectively. Static pressures near the cowl lip were lower with the spike bleed closed, as more air was forced to enter the inlet past the cowl lip. This is also apparent from the Mach number profiles on R1 and R3. There was a large effect near the shock trap, where the Mach number profiles on R2 were more fully developed with the spike bleed closed. This suggests that the inward flow through the spike bleed was low energy flow. All of the effects of spike bleed closure were much greater with the bypass closed, because then the only paths for the engine air flow (other than leakage) were past the cowl lip and in through the spike bleed.

Appendix A contains tabulations of all the reduced pressure data and the inlet performance parameters.

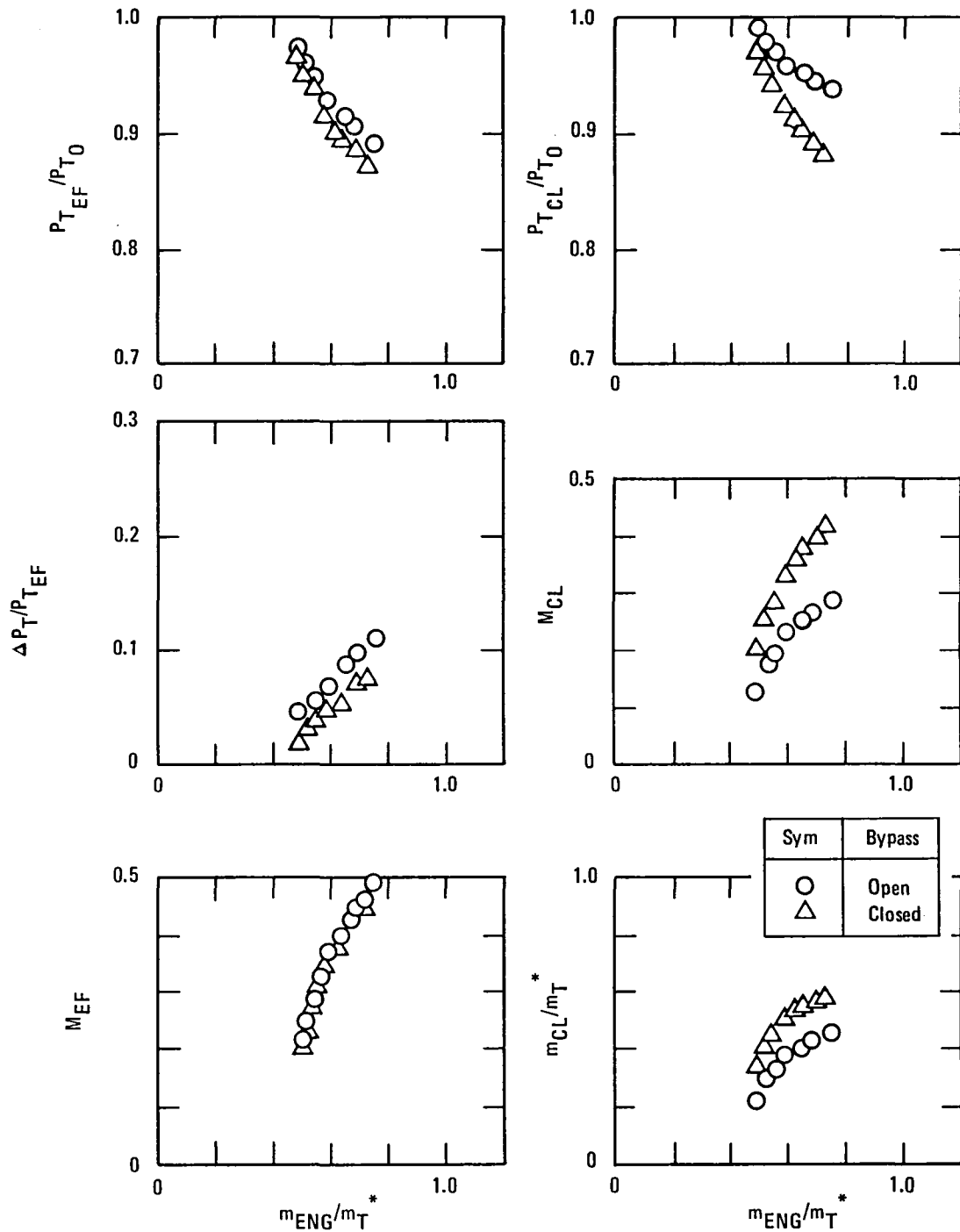


Figure 16. Effect of bypass position on inlet performance: spike forward and spike bleed open.

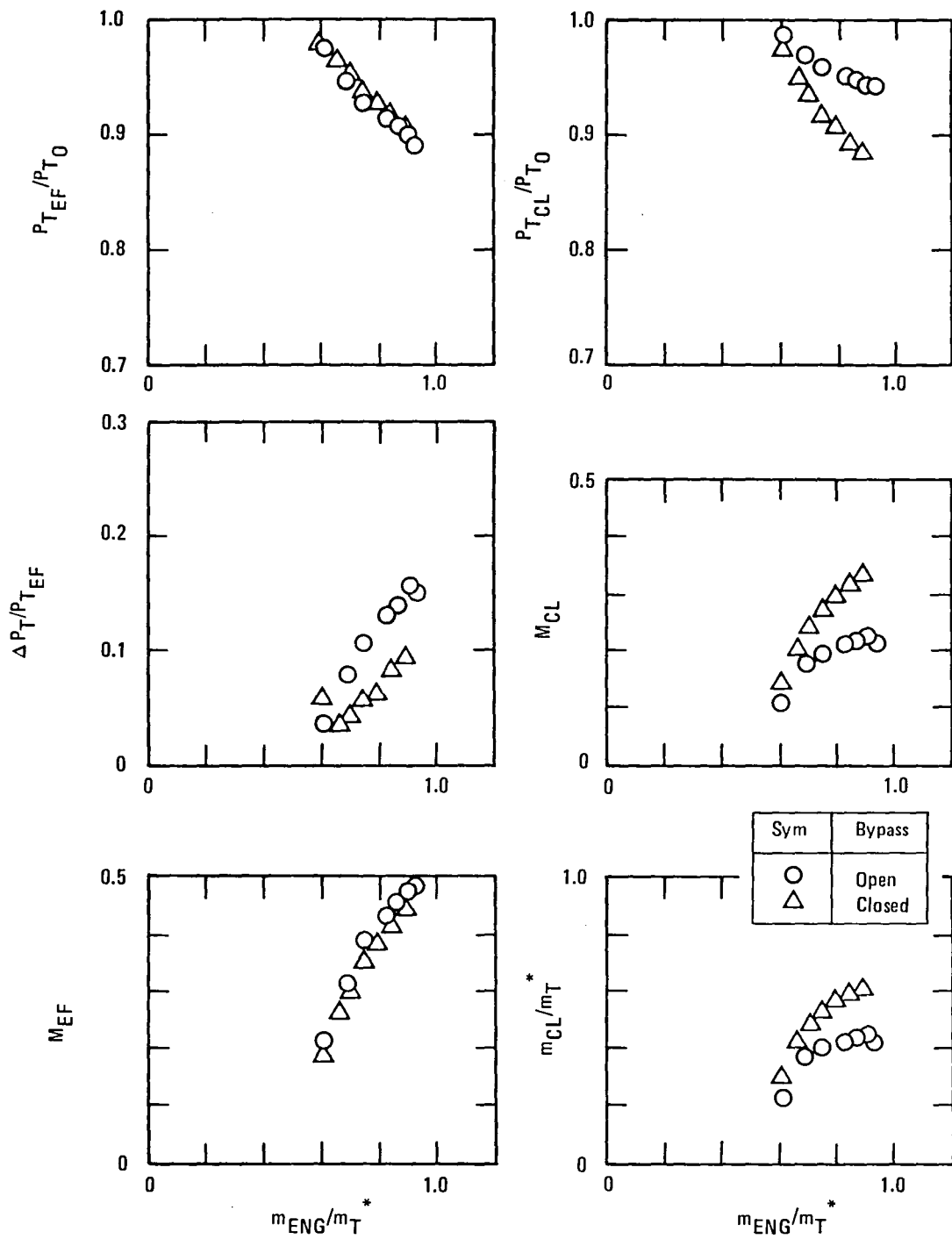


Figure 17. Effect of bypass position on inlet performance: spike midway and spike bleed open.

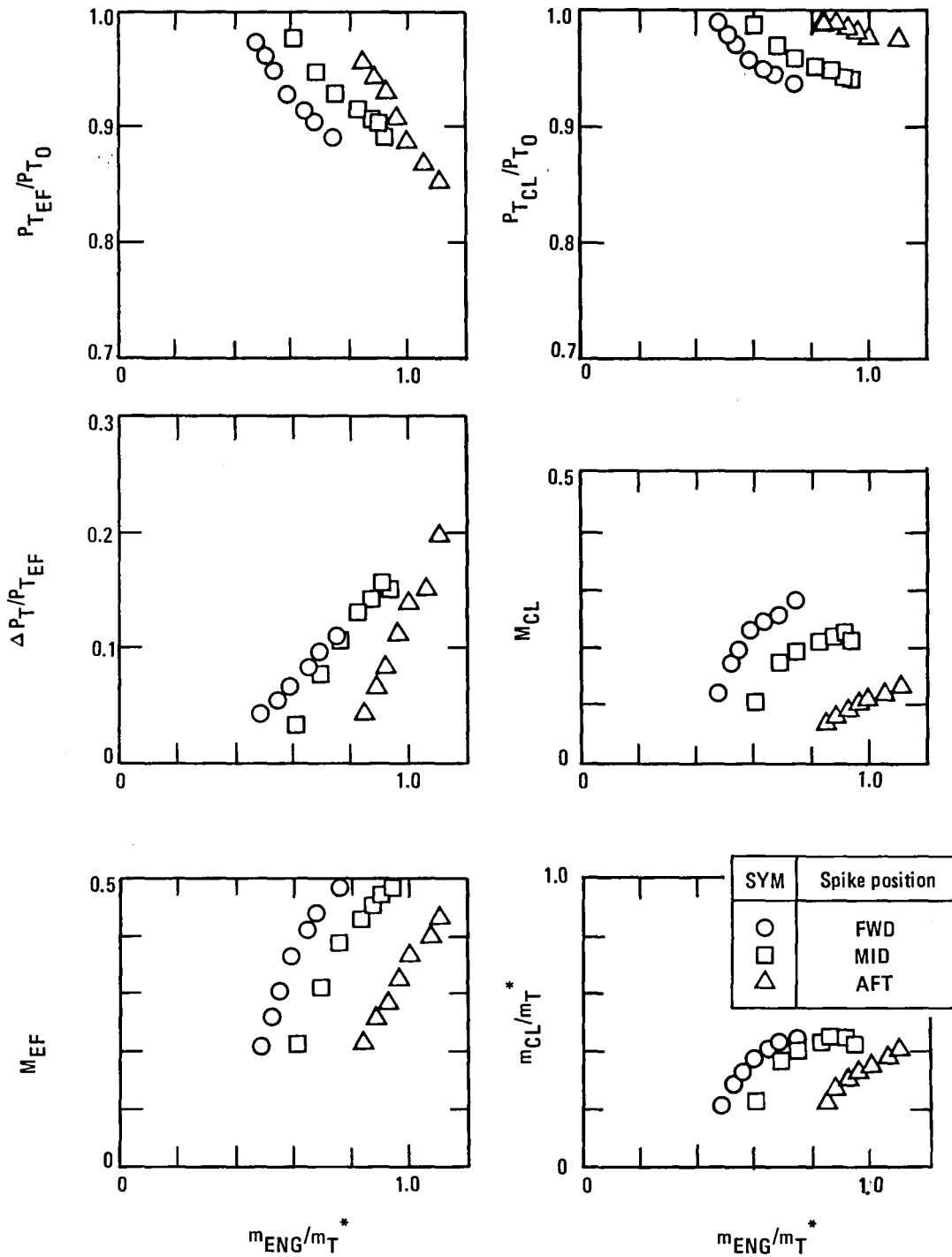


Figure 18. Effect of spike position on inlet performance: bypass open and spike bleed open.

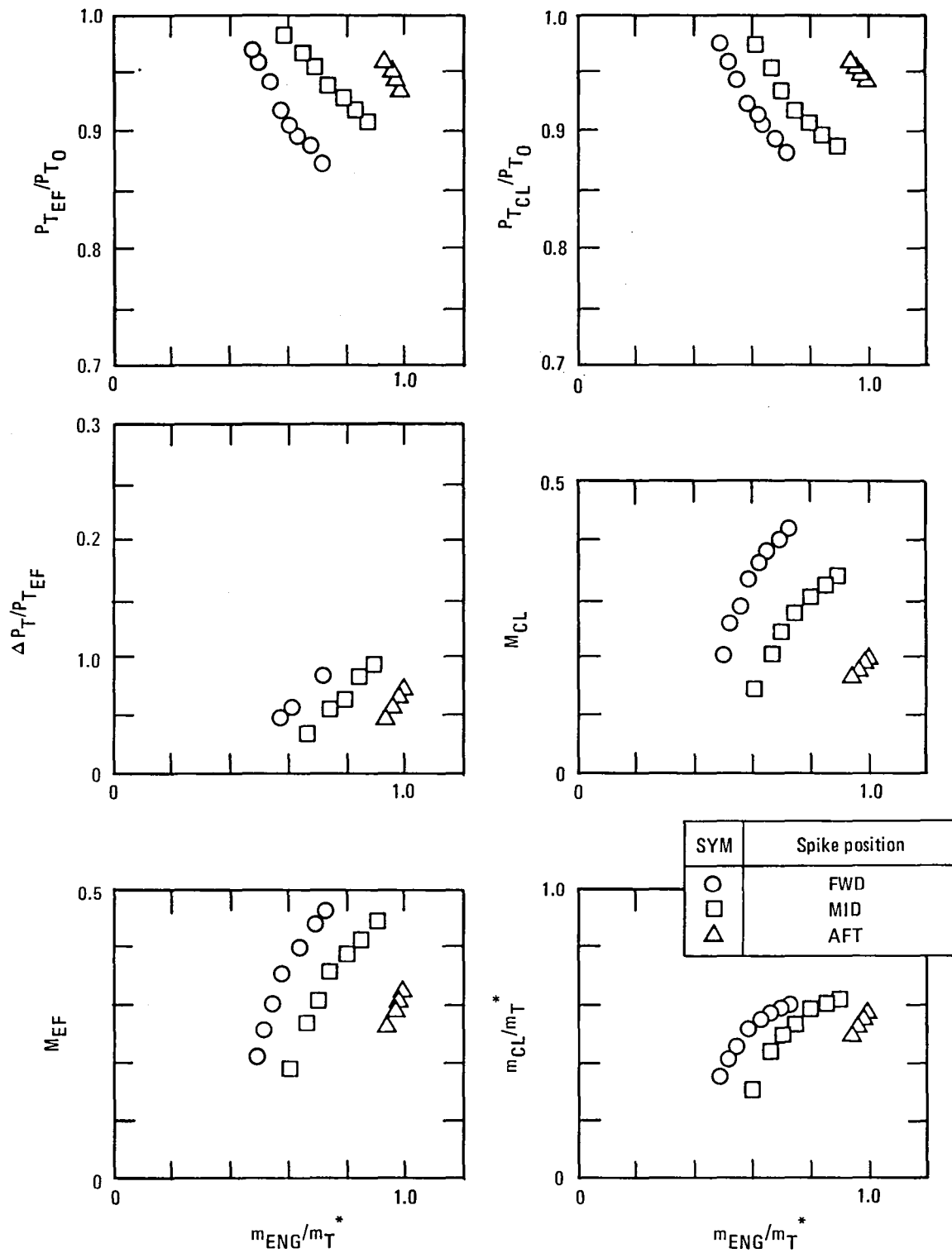


Figure 19. Effect of spike position on inlet performance: bypass closed and spike bleed open.

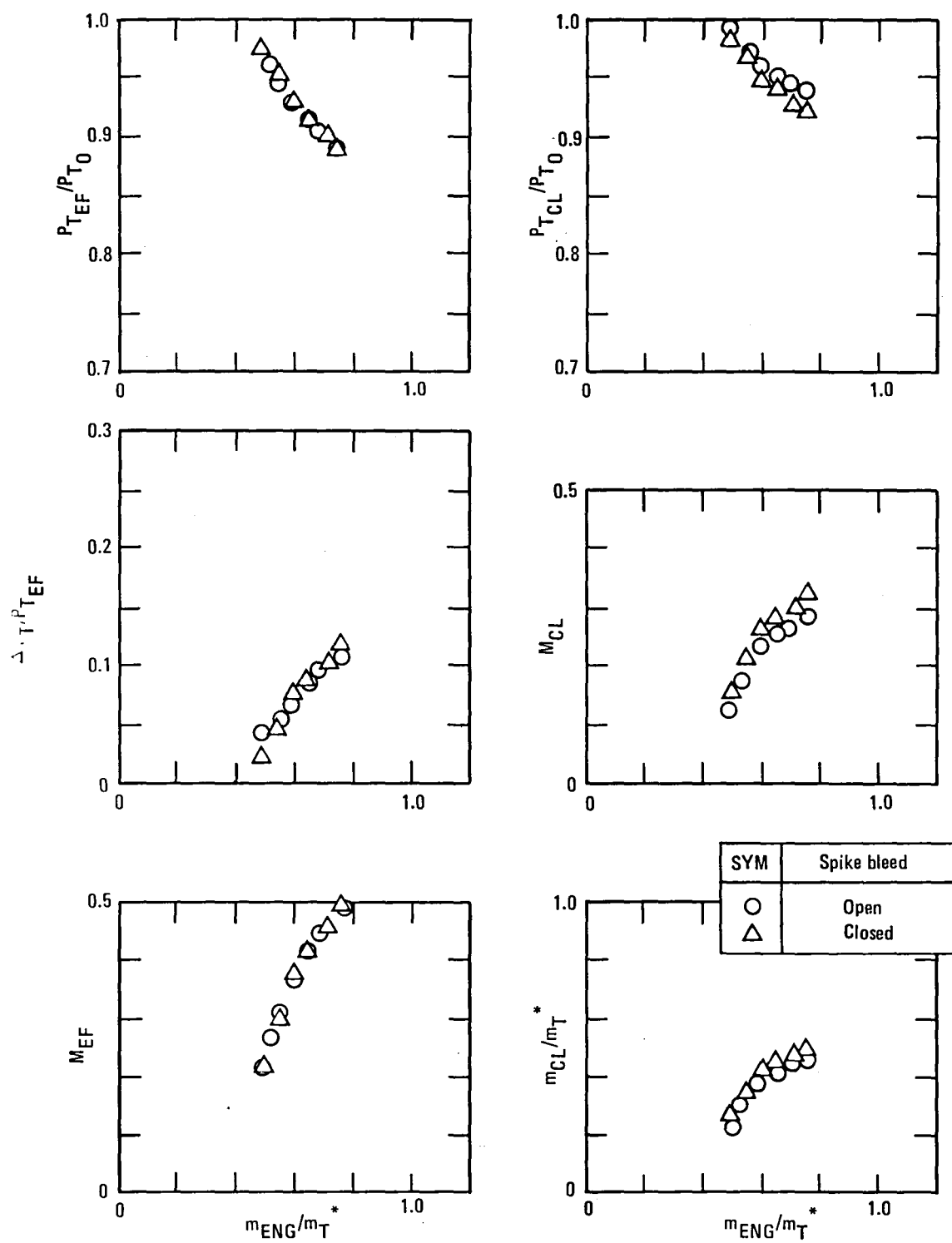


Figure 20. Effect of spike bleed on inlet performance: spike forward and bypass open.

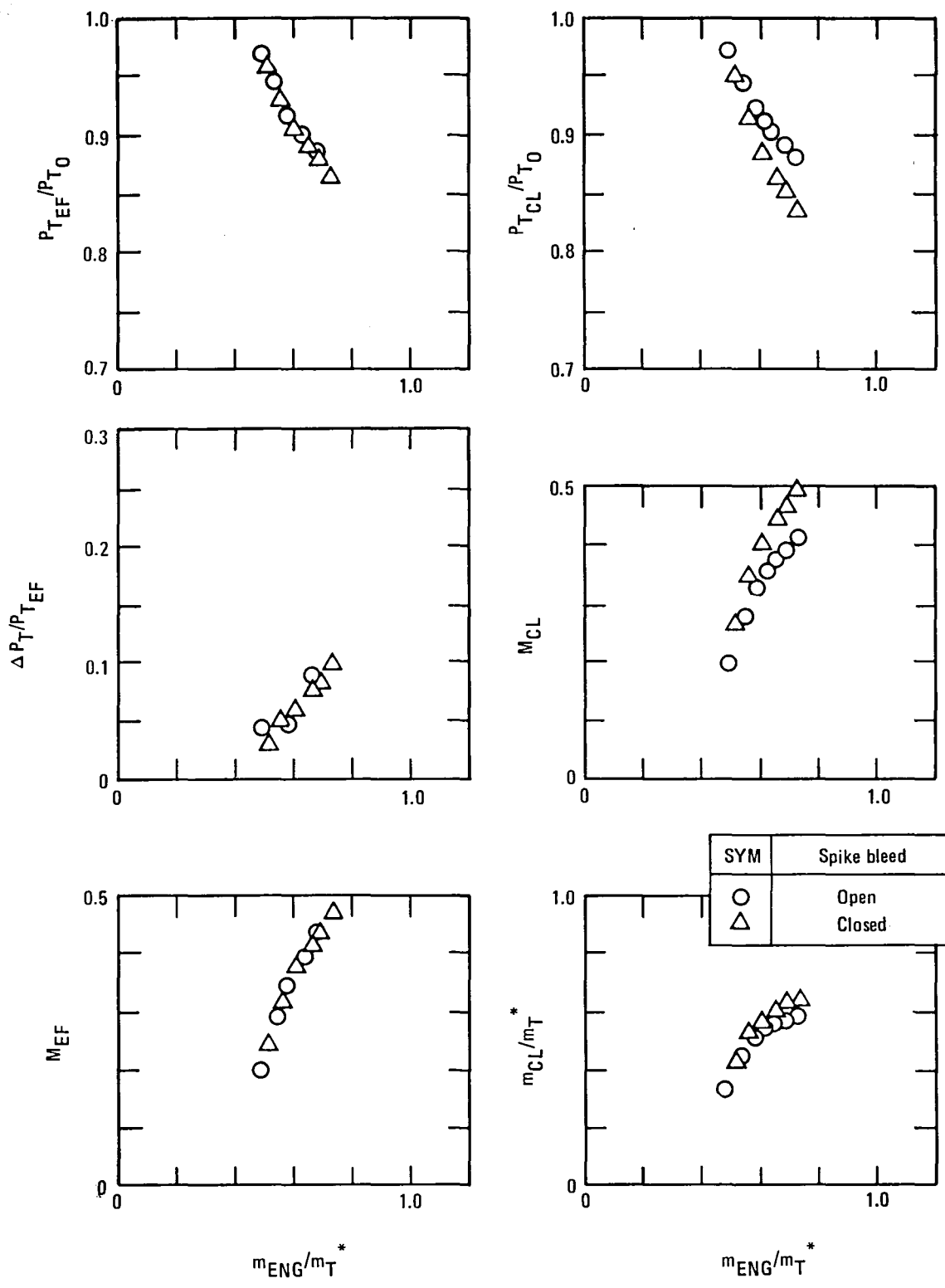


Figure 21. Effect of spike bleed on inlet performance: spike forward and bypass closed.

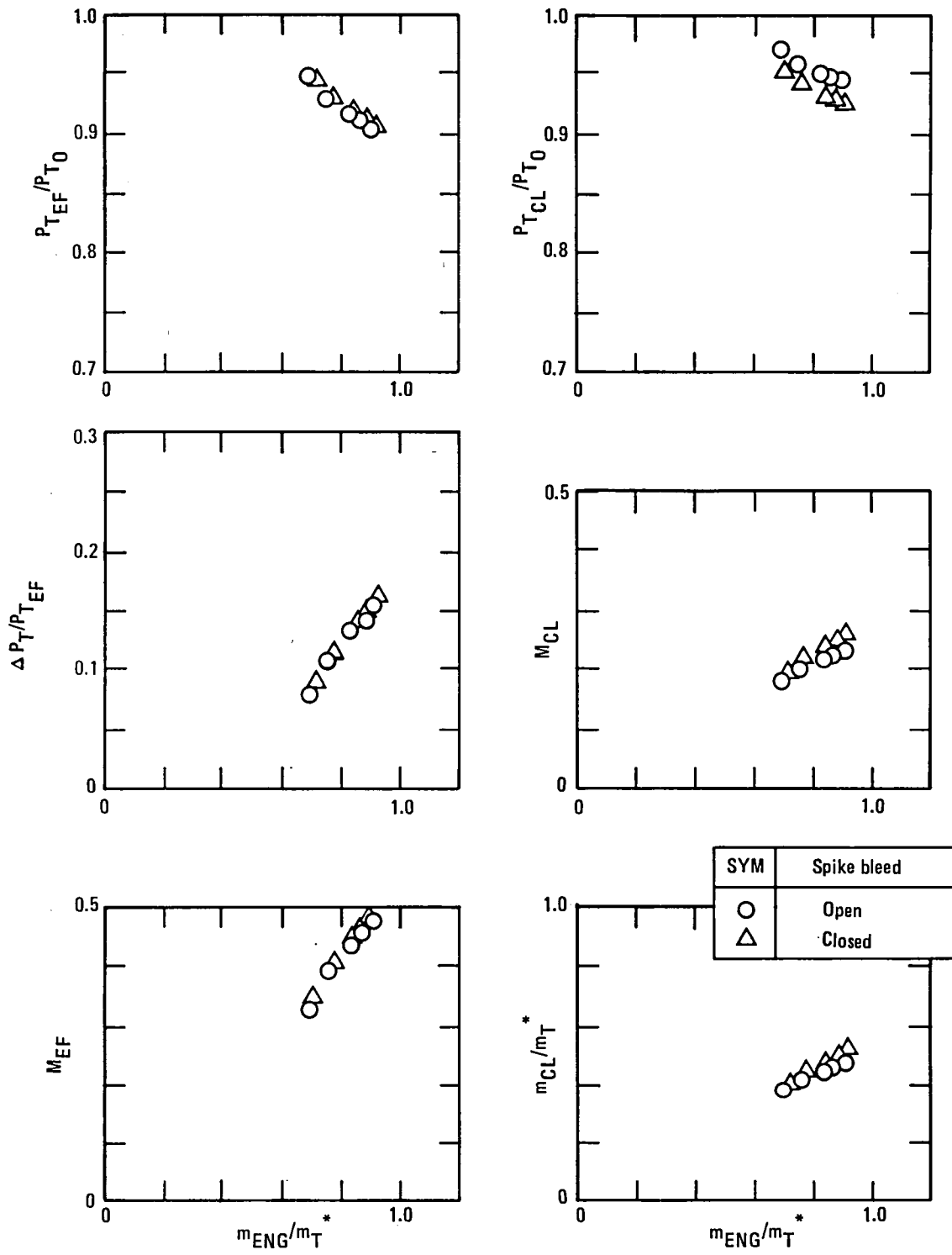


Figure 22. Effect of spike bleed on inlet performance: spike midway and bypass open.

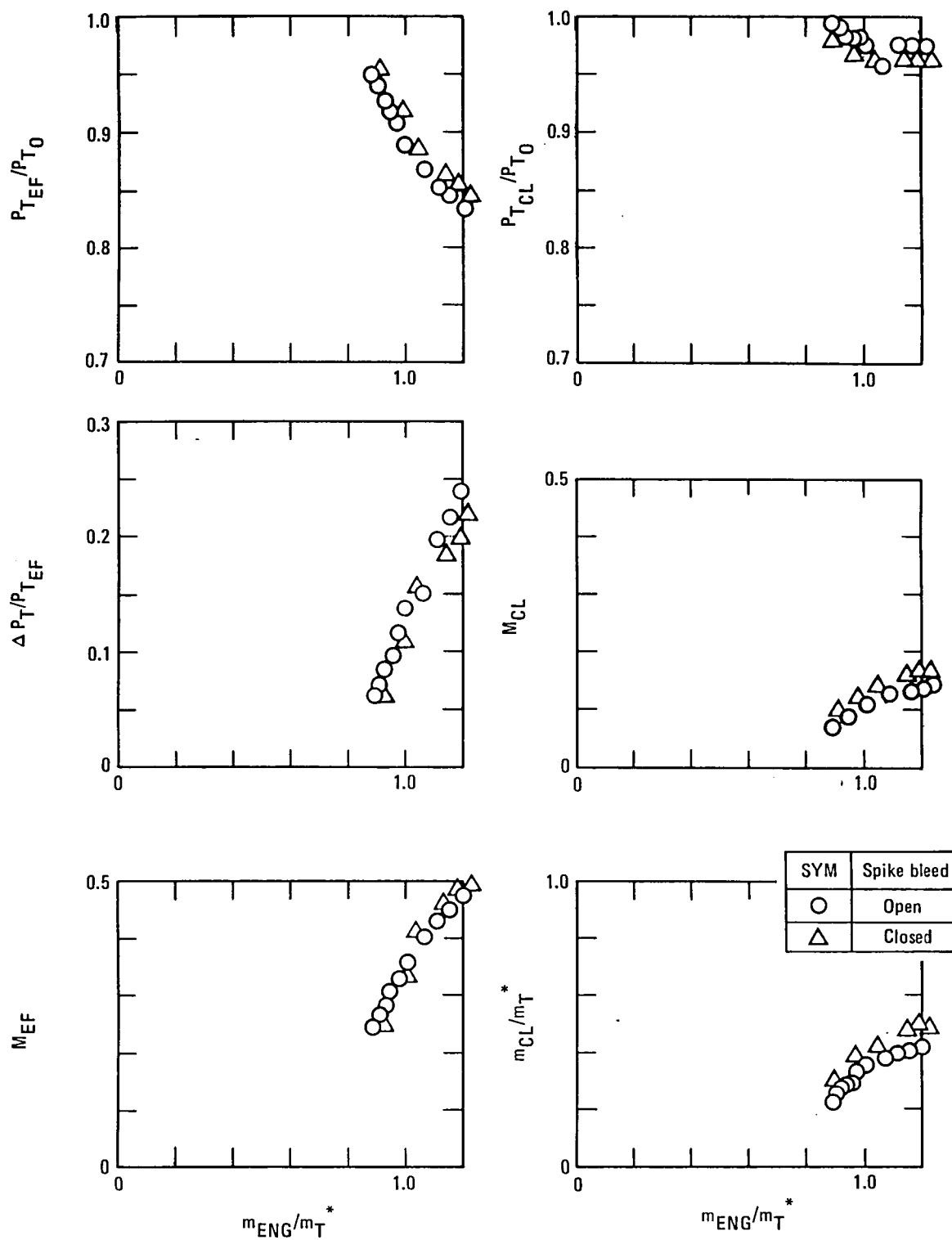


Figure 23. Effect of spike bleed on inlet performance: spike aft and bypass open.

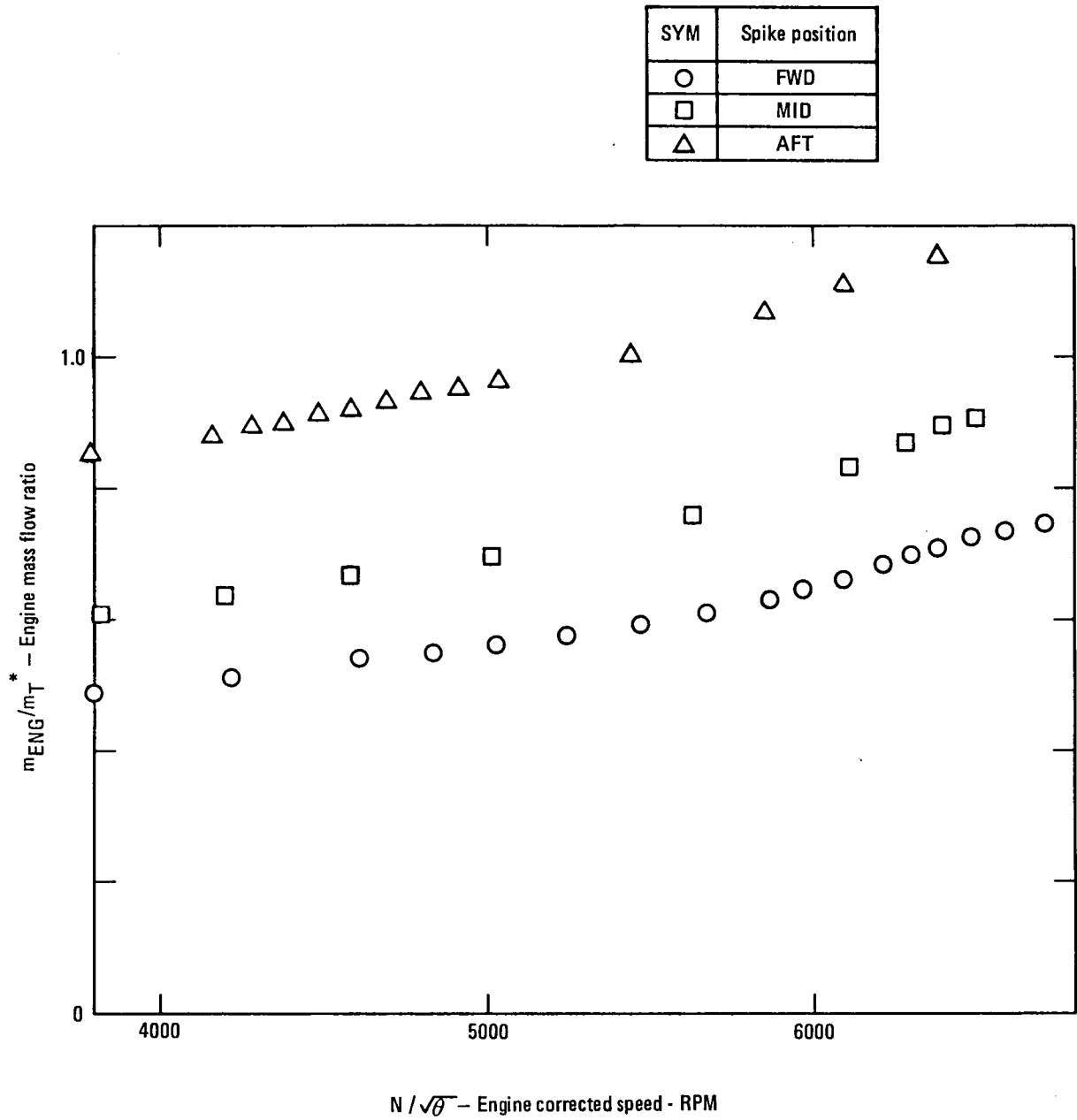


Figure 24. Engine mass flow ratio as a function of engine speed for the three spike positions.

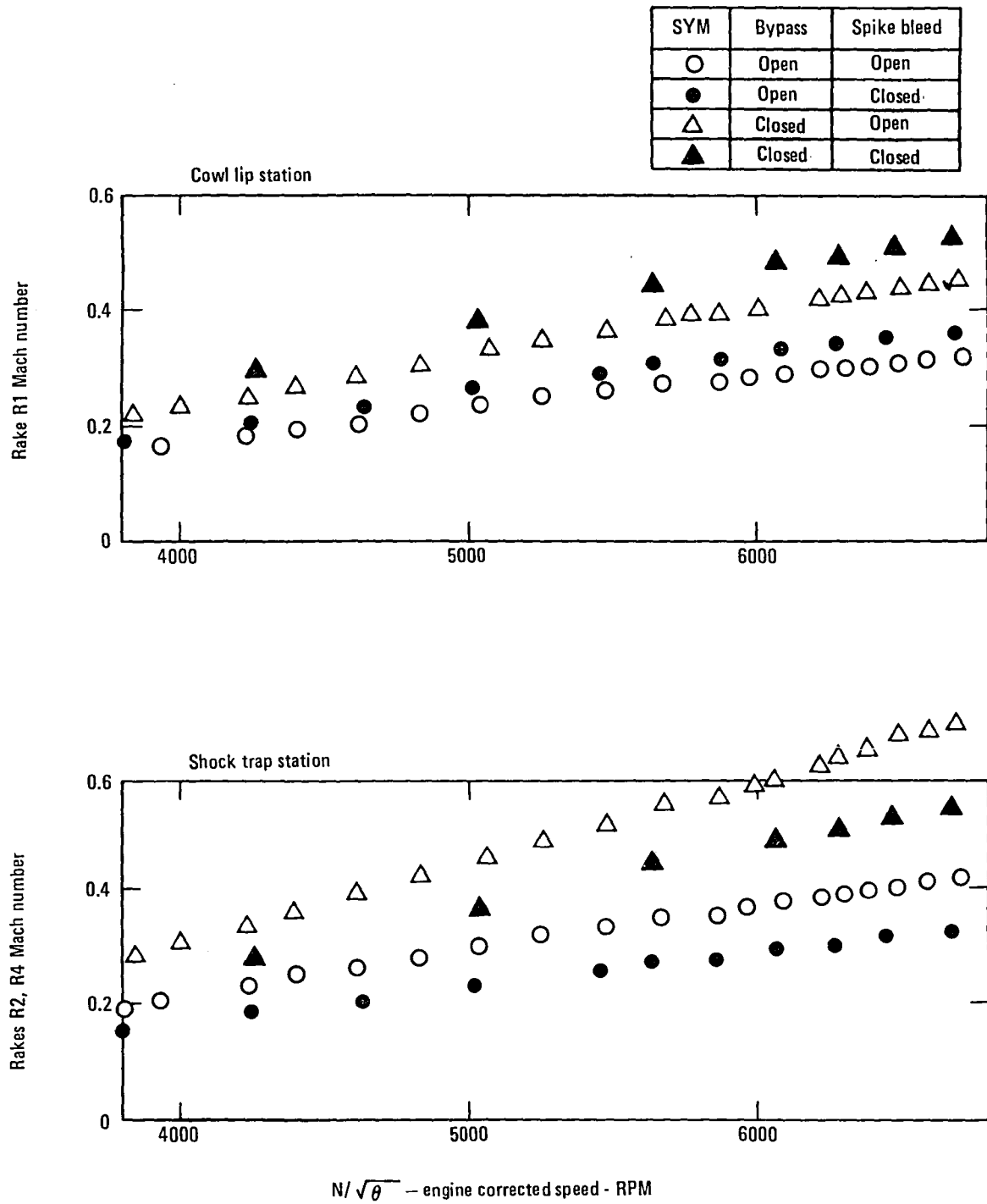


Figure 25. Mach numbers at the cowl lip and shock trap stations.

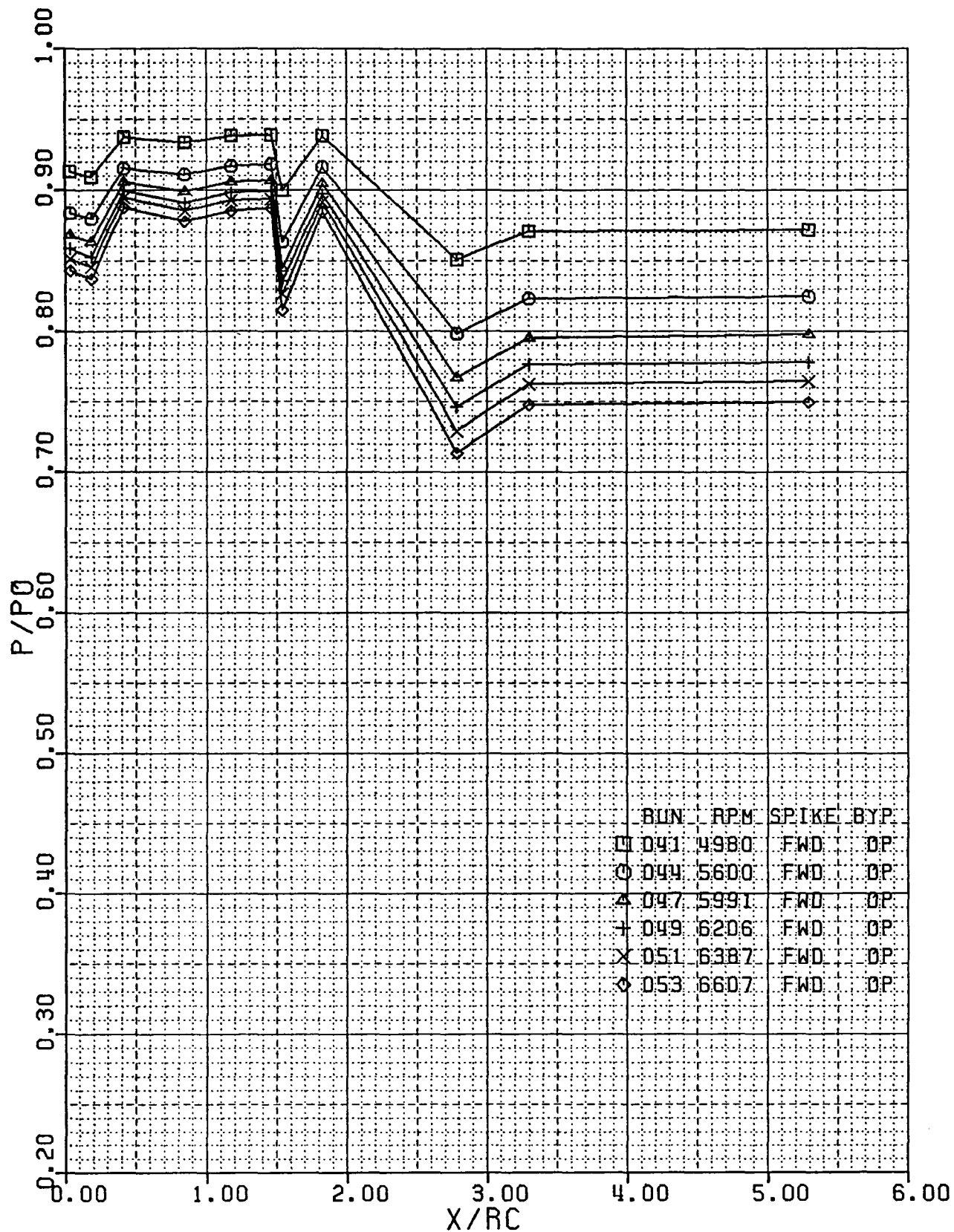


Figure 26a. Cowl static pressure distribution for different engine speeds: spike forward, bypass open, and spike bleed open.

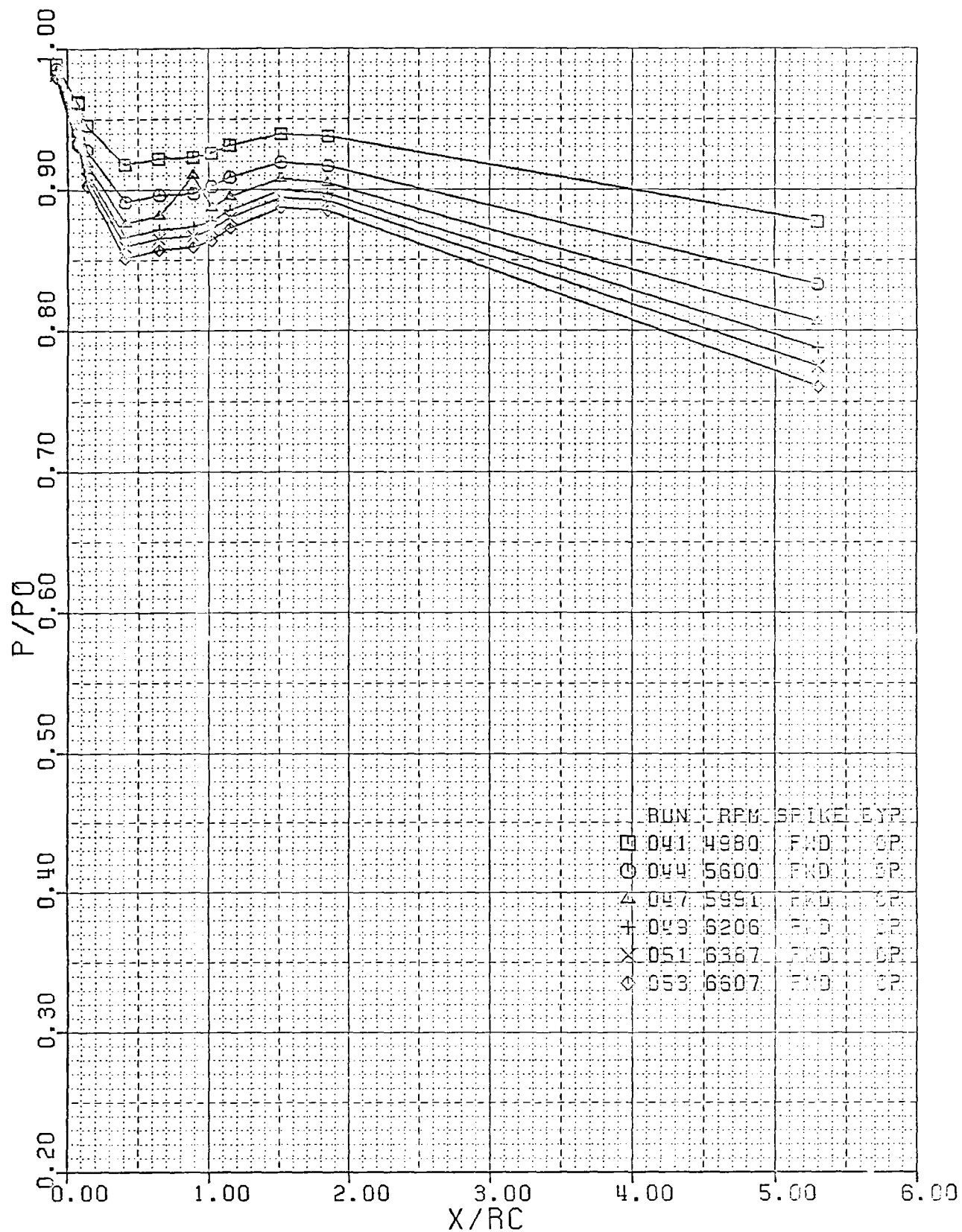


Figure 26b. Spike static pressure distribution for different engine speeds: spike forward, bypass open, and spike bleed open.

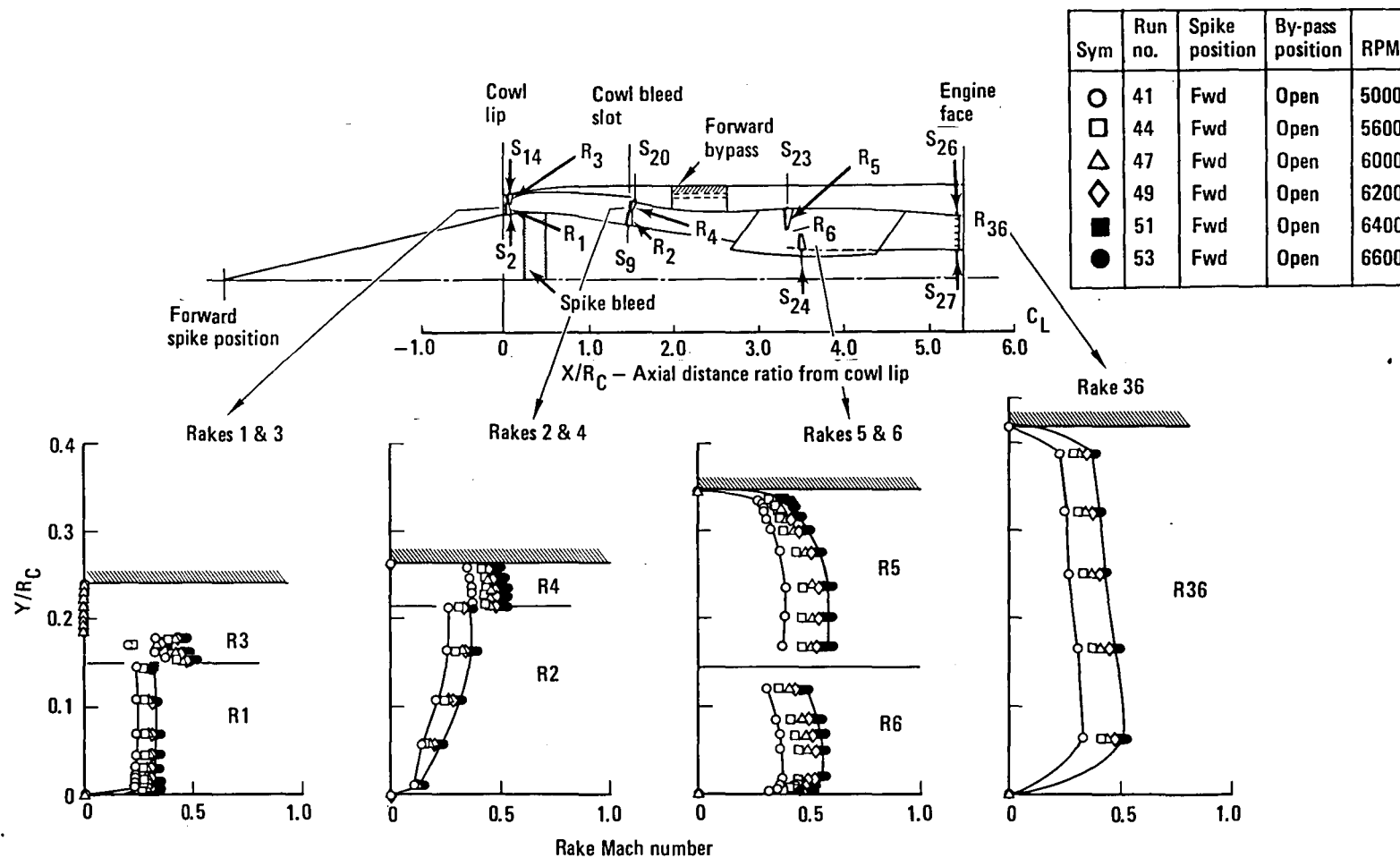
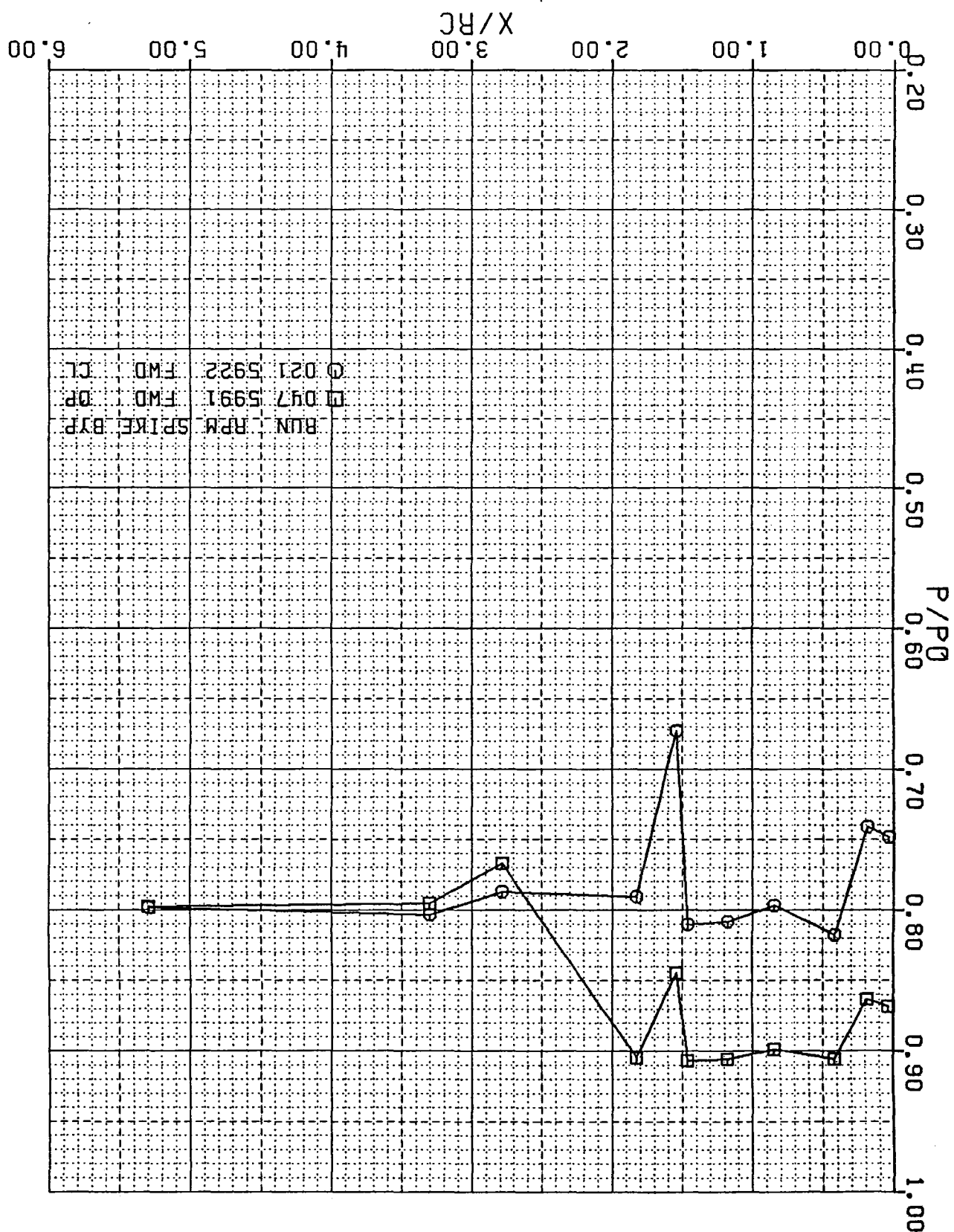


Figure 26c. Rake Mach number profiles for different engine speeds: spike forward, bypass open, and spike bleed open.



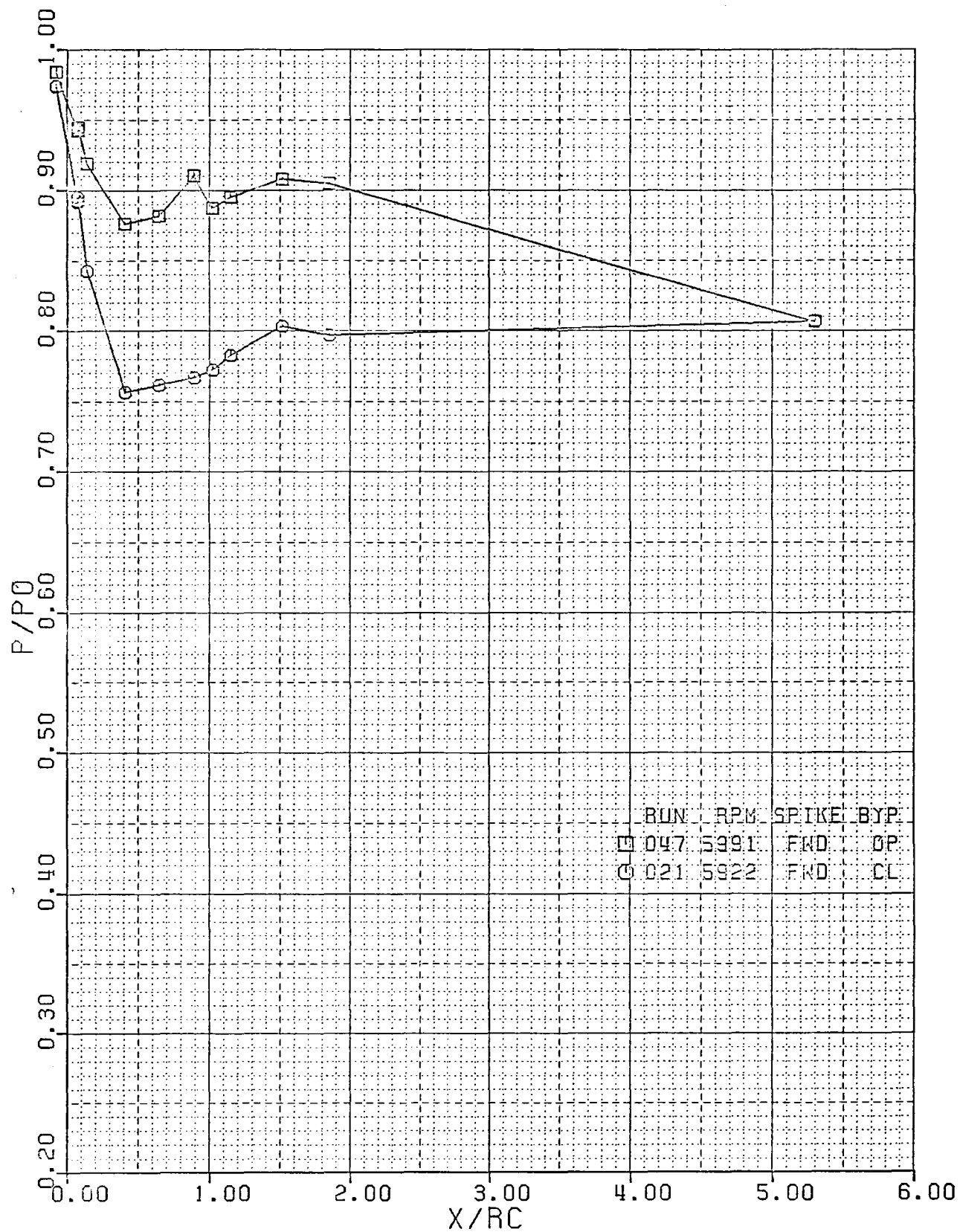


Figure 27b. Spike static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6000 rpm.

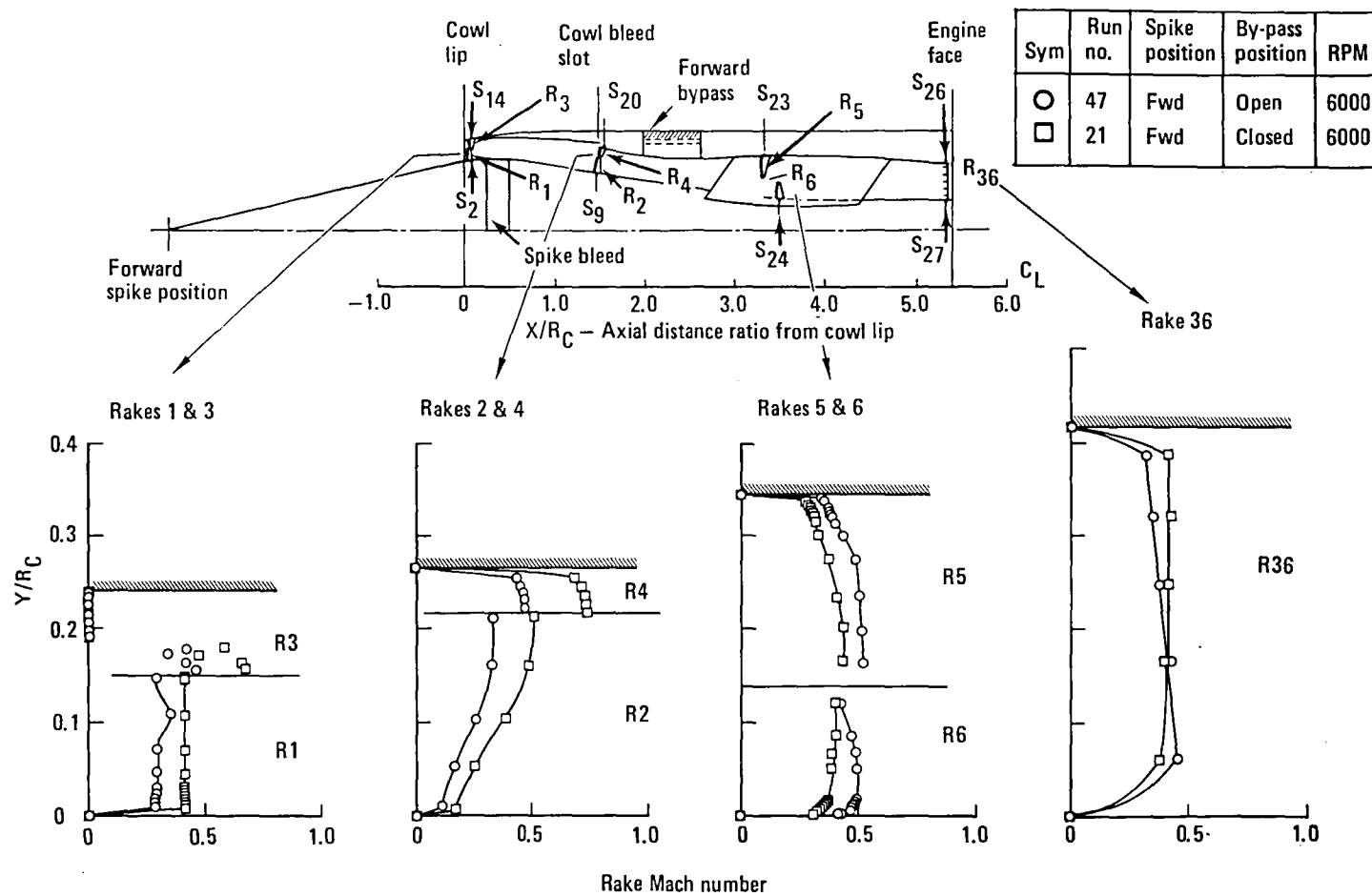


Figure 27c. Rake Mach number profiles for bypass open and closed: spike forward, spike bleed open, and 6000 rpm.

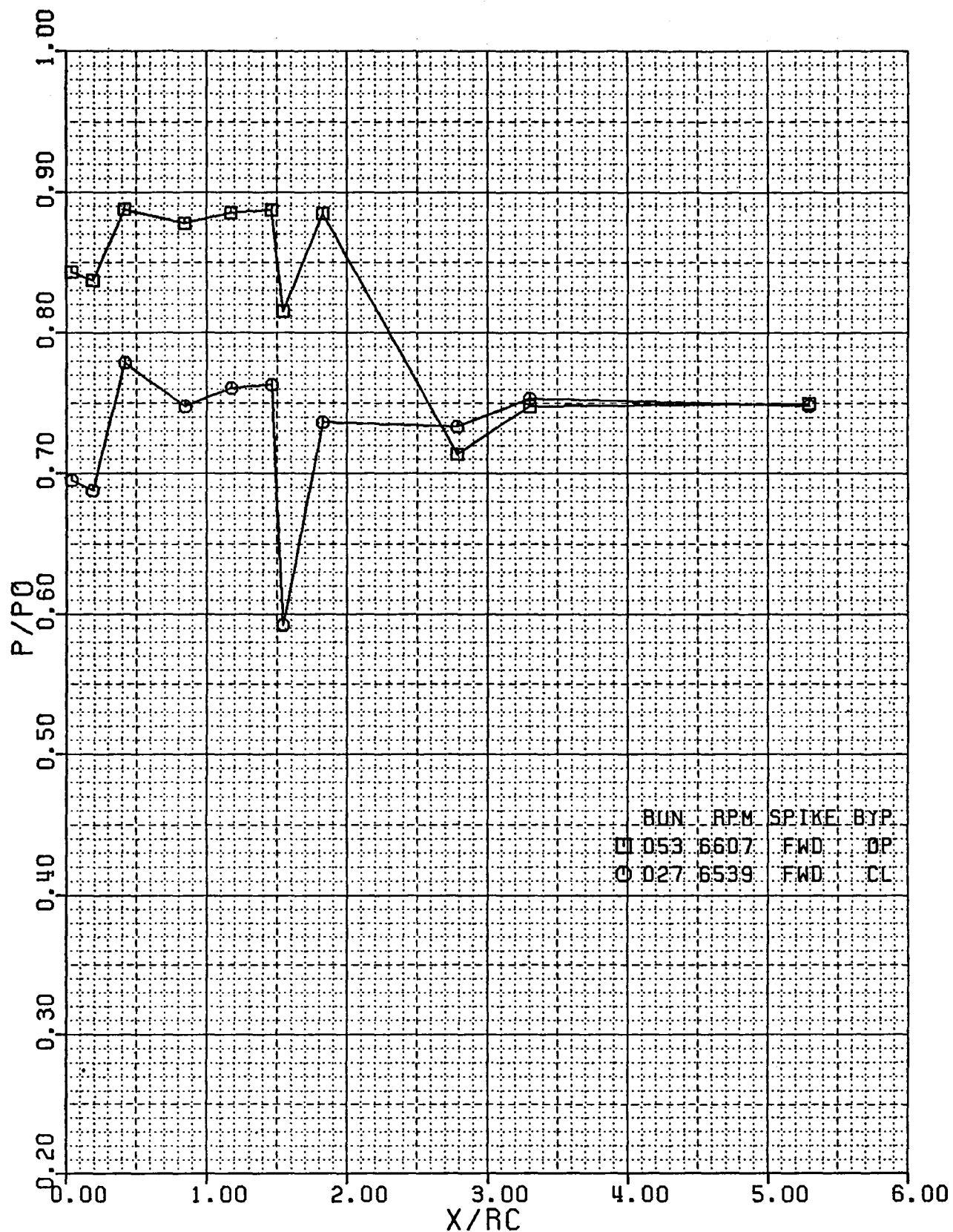


Figure 28a. Cowl static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6600 rpm.

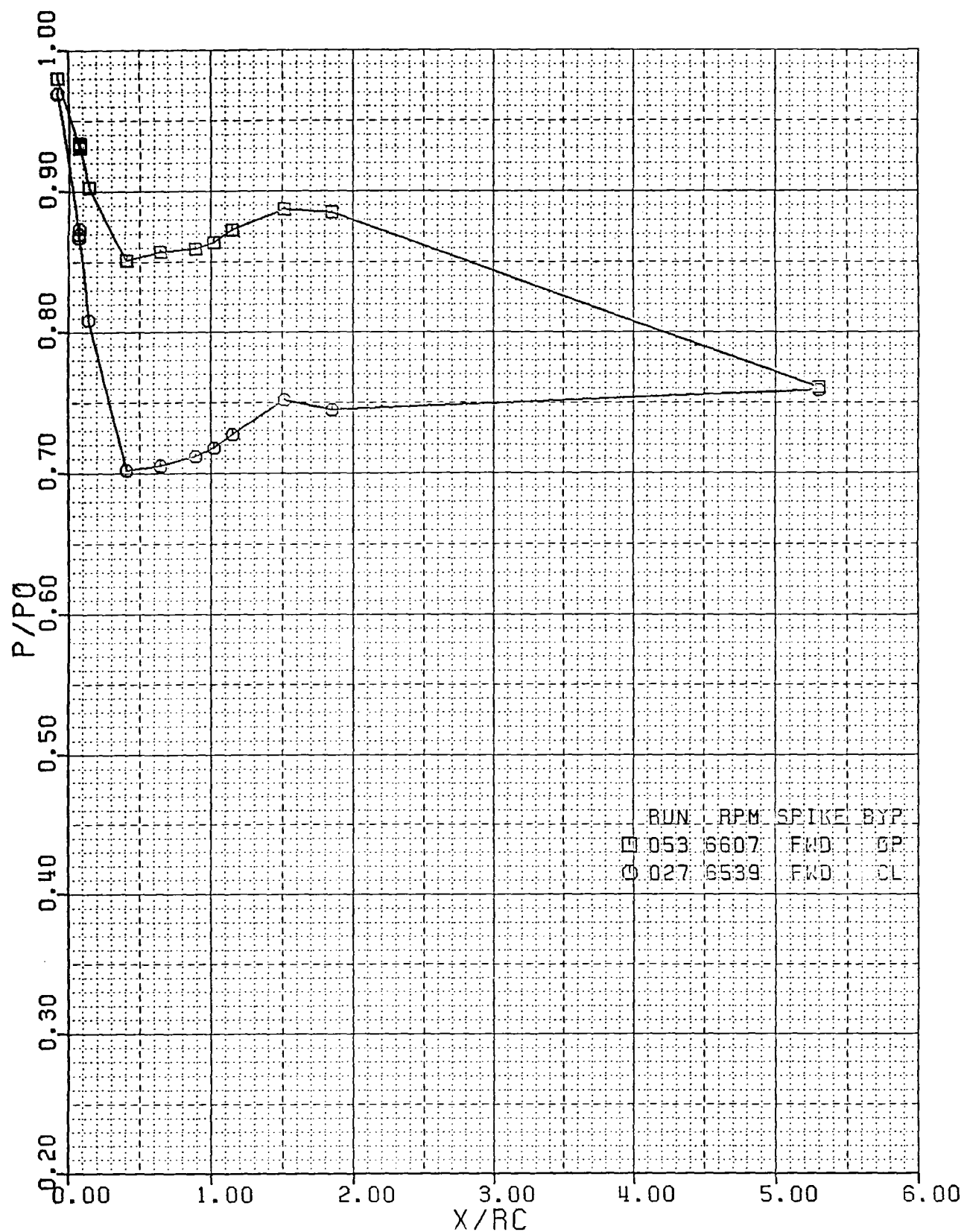


Figure 28b. Spike static pressure distribution for bypass open and closed: spike forward, spike bleed open, and 6600 rpm.

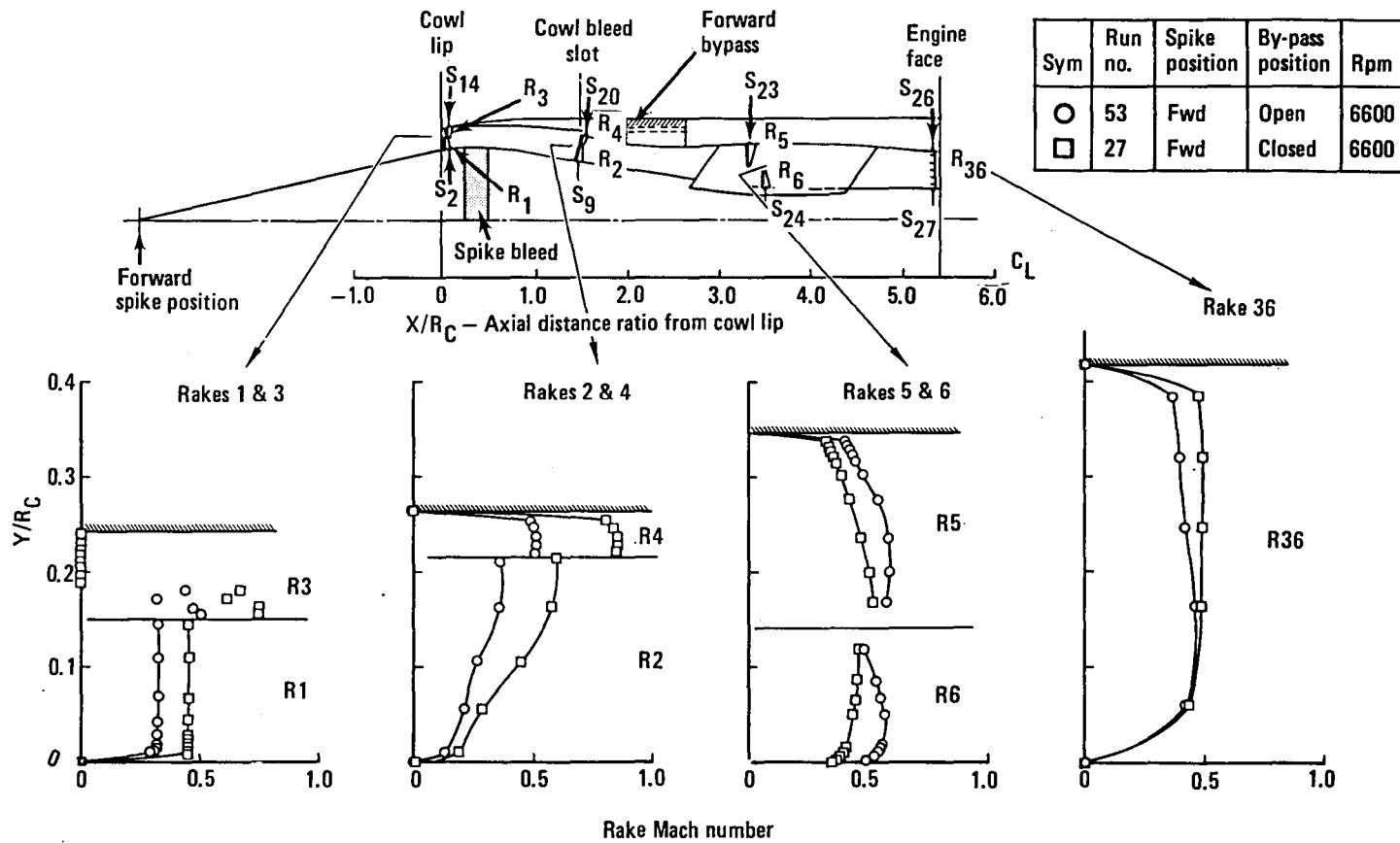


Figure 28c. Rake Mach number profiles for bypass open and closed: spike forward, spike bleed open, and 6600 rpm.

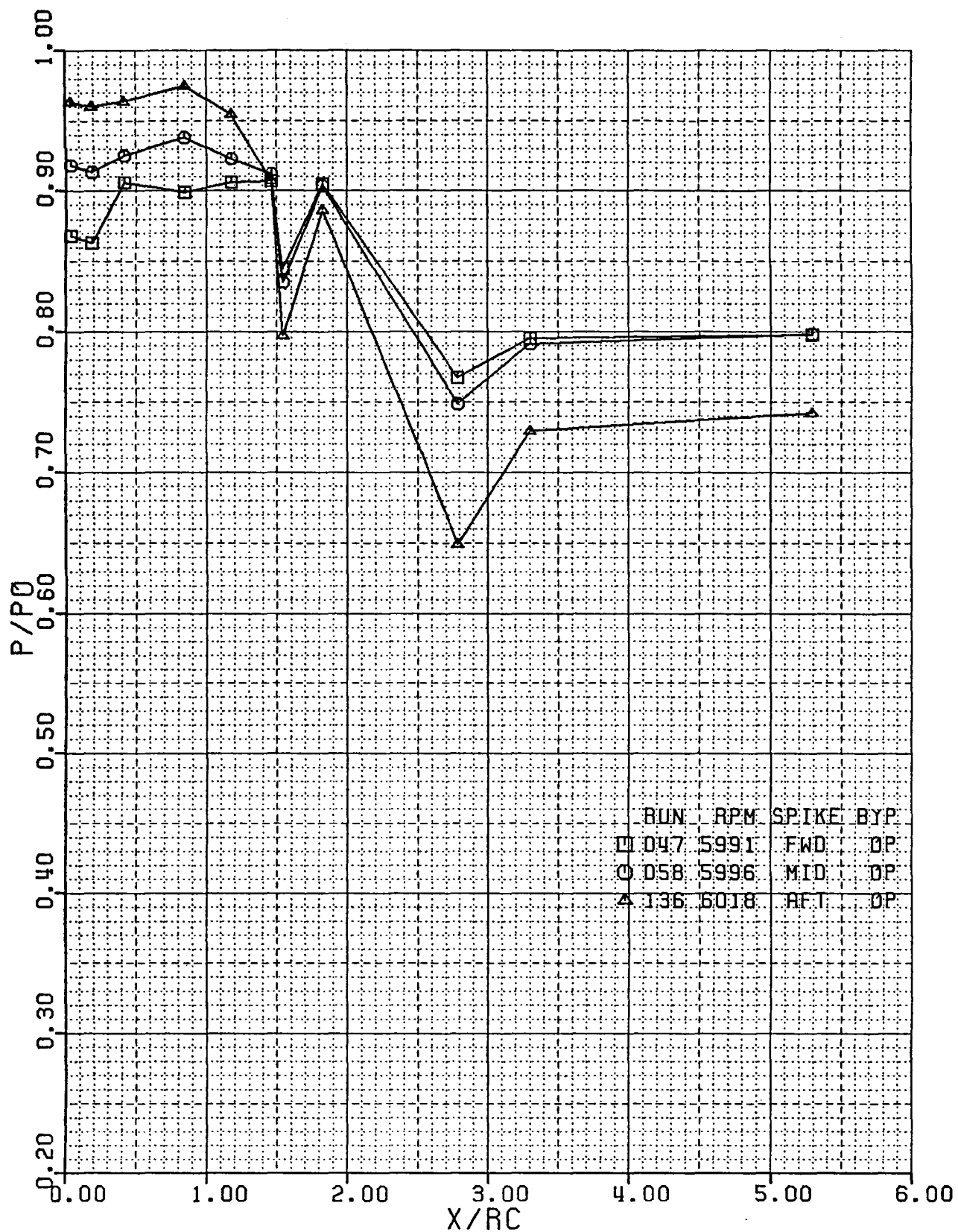


Figure 29a. Cowl static pressure distribution for spike forward, midway, and aft: bypass open, spike bleed open, and 6000 rpm.

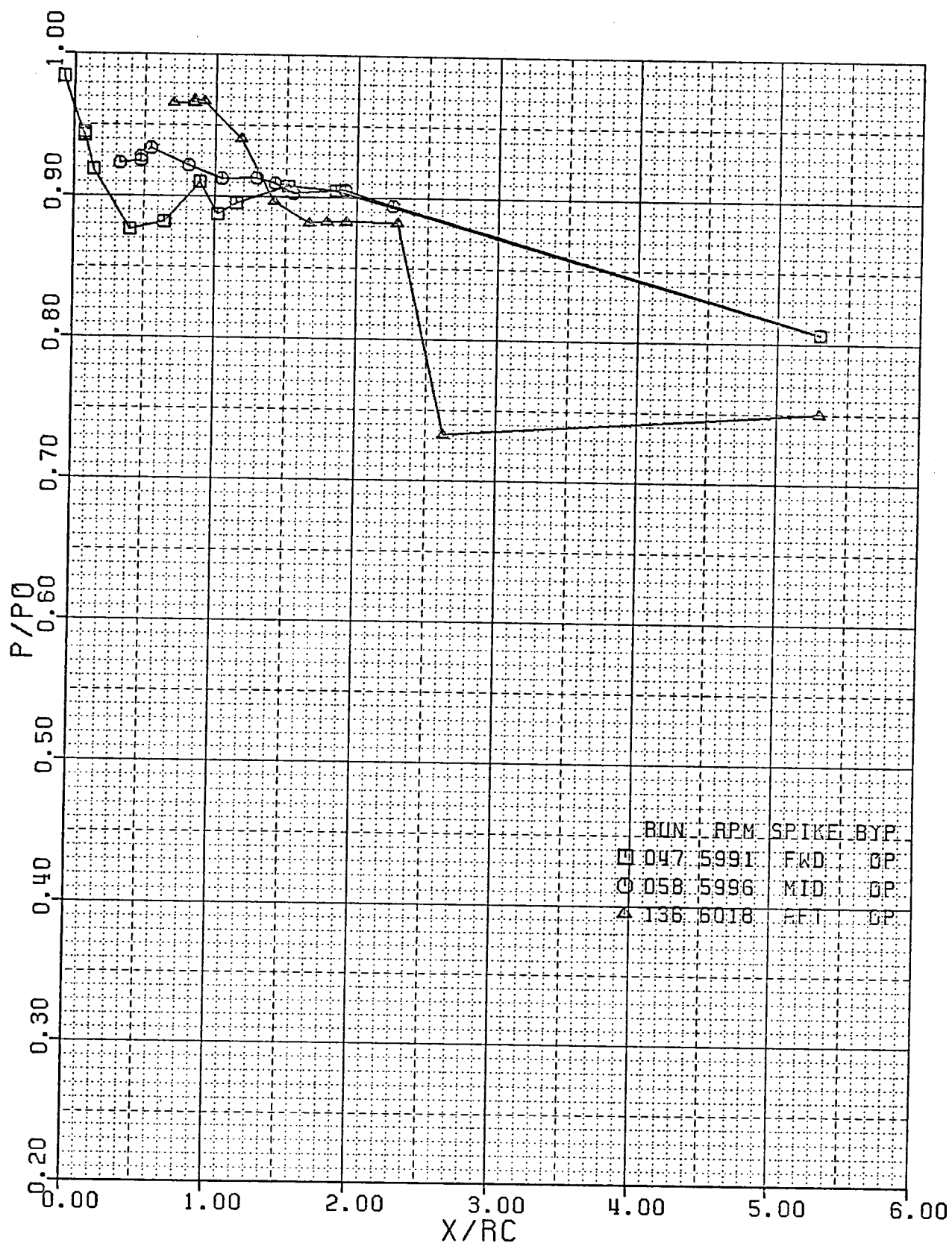


Figure 29b. Spike static pressure distribution for spike forward, midway, and aft: bypass open, spike bleed open, and 6000 rpm.

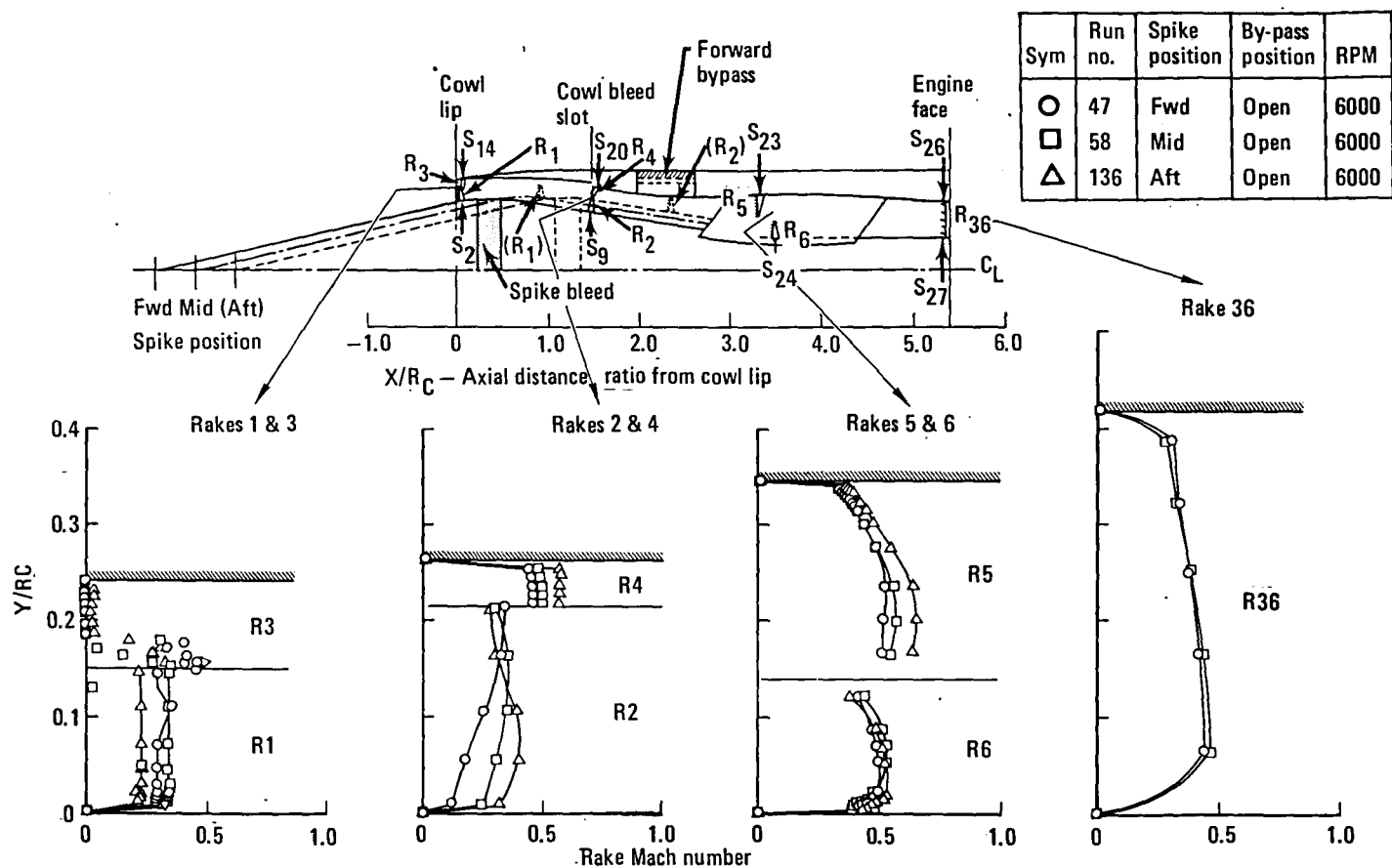


Figure 29c. Rake Mach number profiles for spike forward, midway, and aft: bypass open, spike bleed open, and 6000 rpm

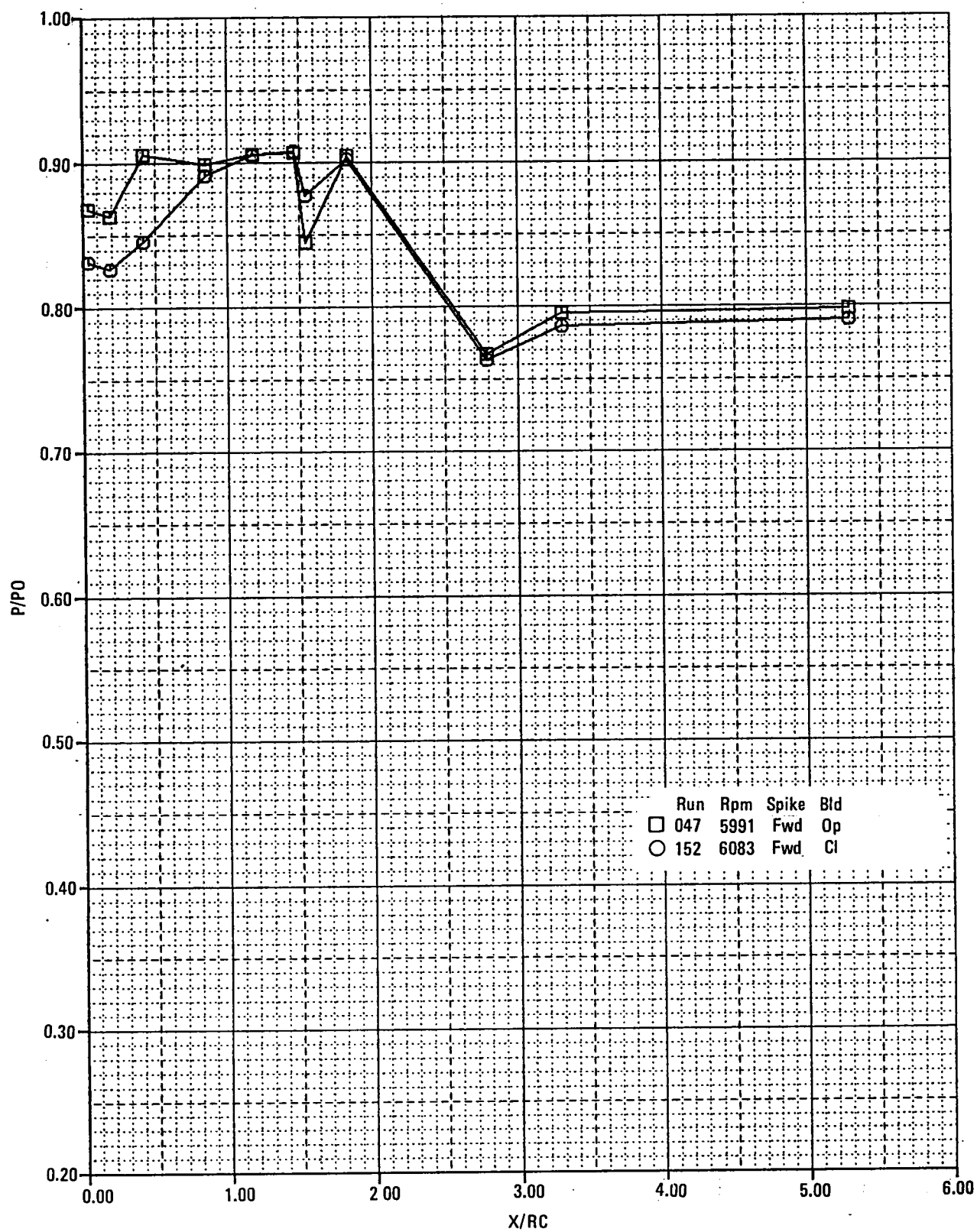


Figure 30a. Cowl static pressure distribution with spike bleed open and closed: spike forward, bypass open, and 6000 rpm.

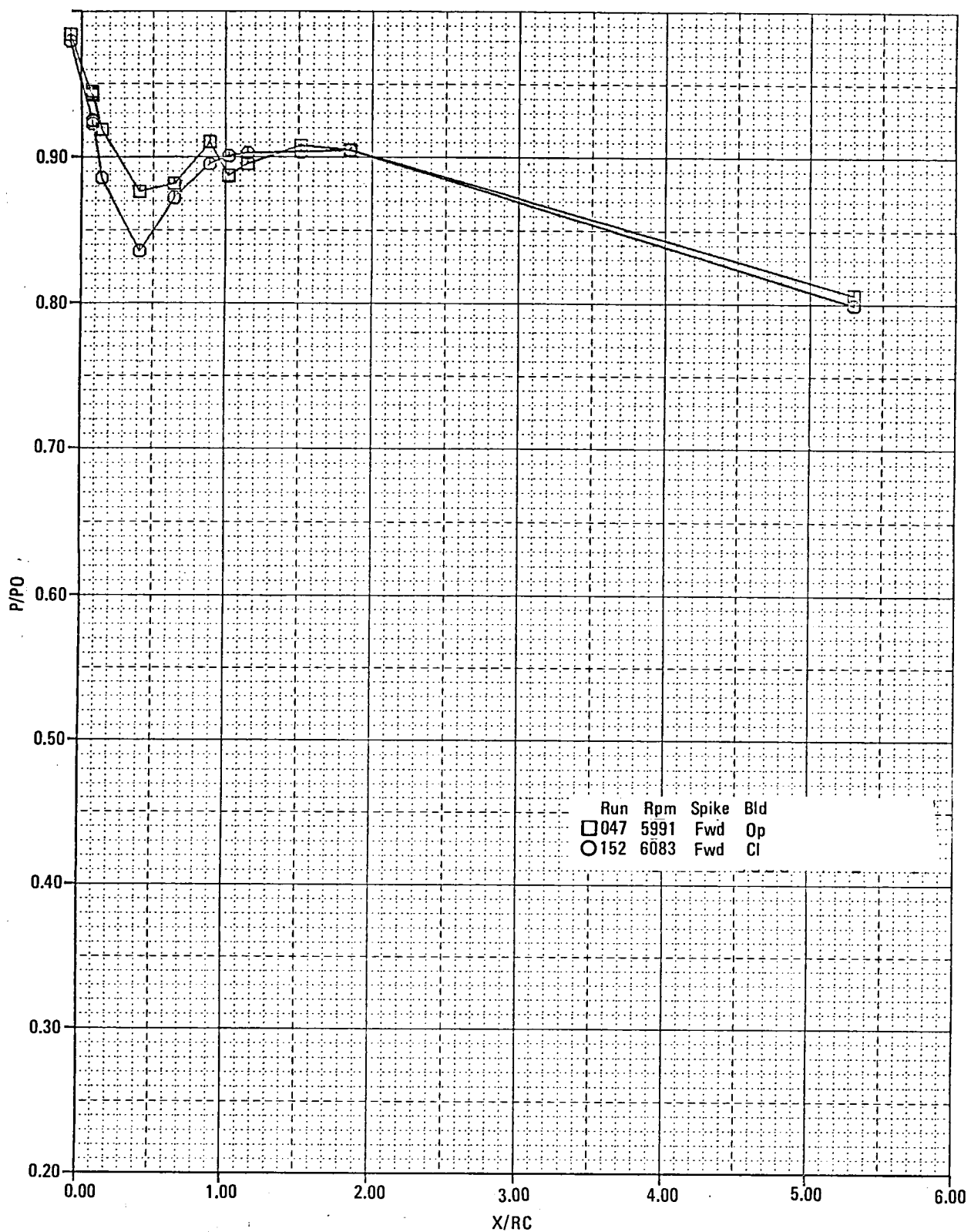


Figure 30b. Spike static pressure distribution with spike bleed open and closed: spike forward, bypass open, and 6000 rpm.

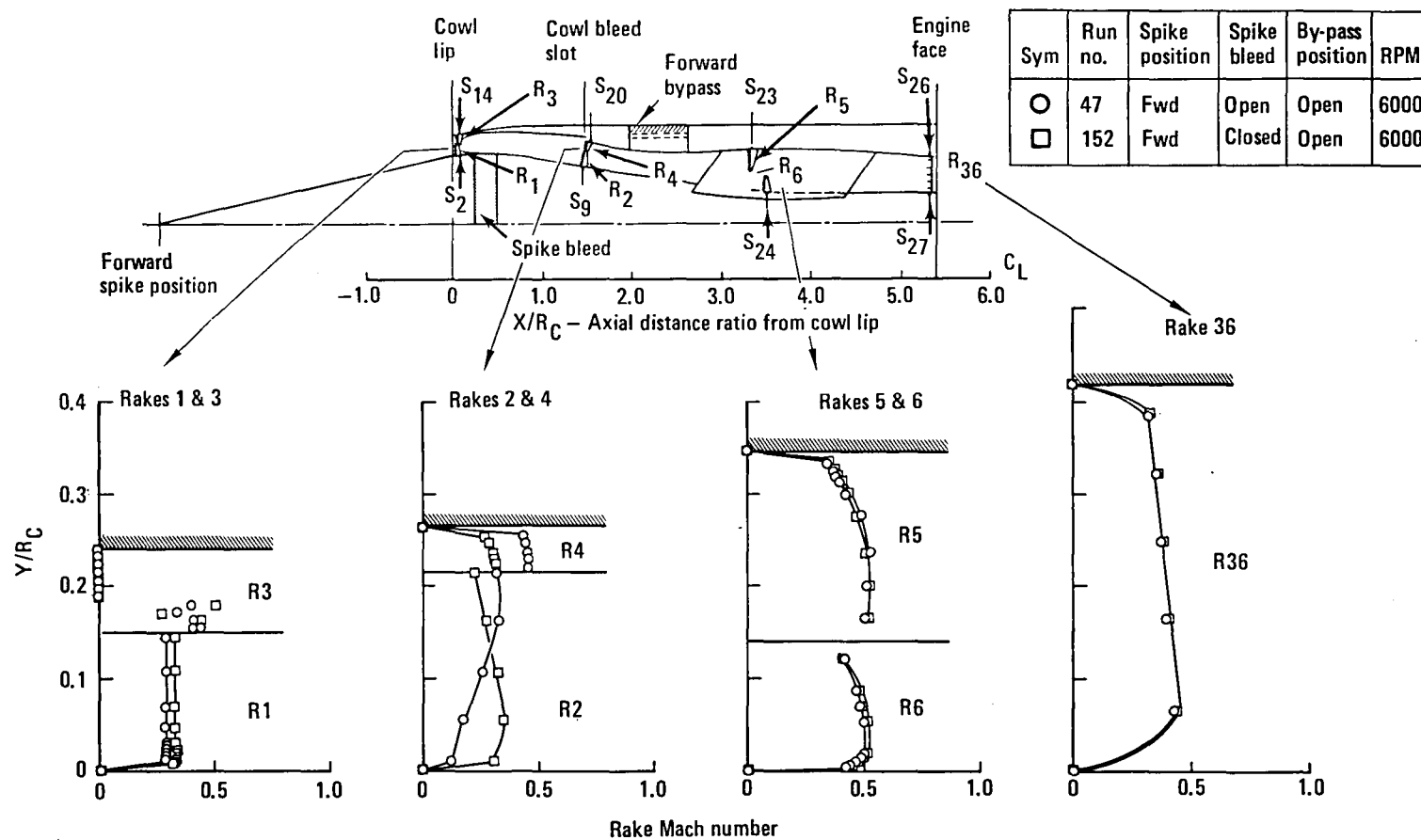
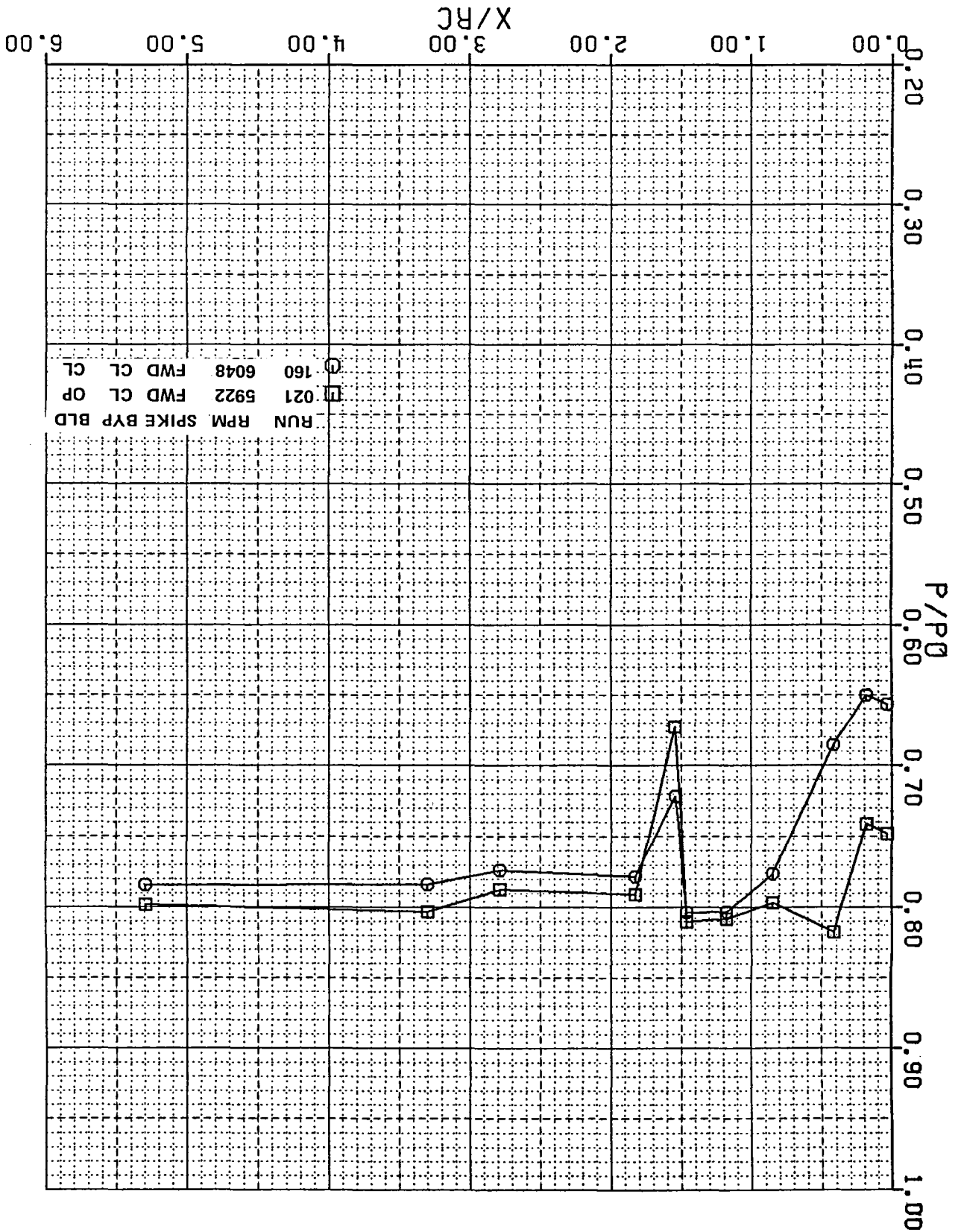


Figure 30c. Rake Mach number profiles with spike bleed open and closed: spike forward, bypass open, and 6000 rpm.

Figure 31a. Cowl static pressure distribution with spike bleed open and closed: spike forward, bypass closed, and 6000 rpm.



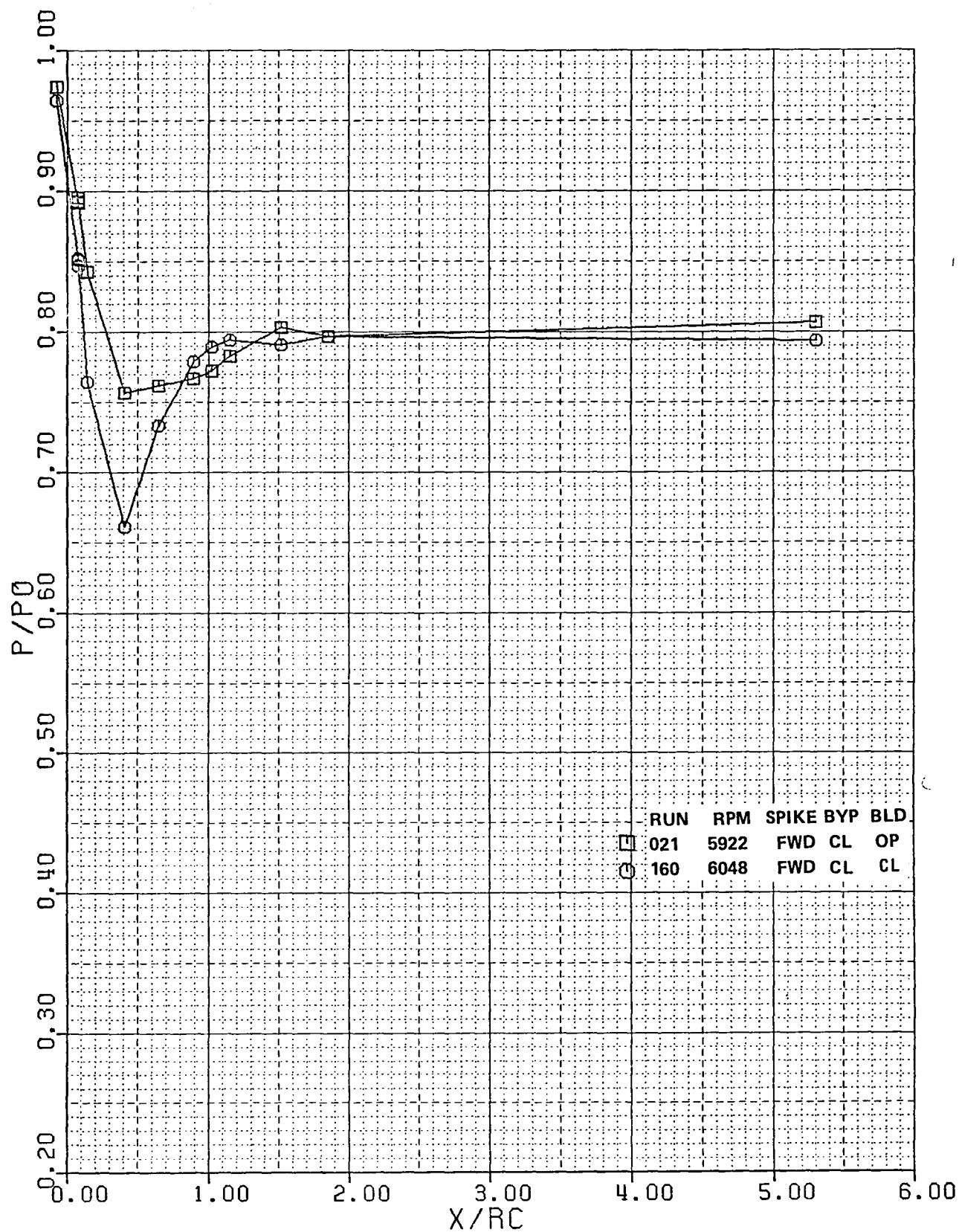


Figure 31b. Spike static pressure distribution with spike bleed open and closed: spike forward, bypass closed, and 6000 rpm.

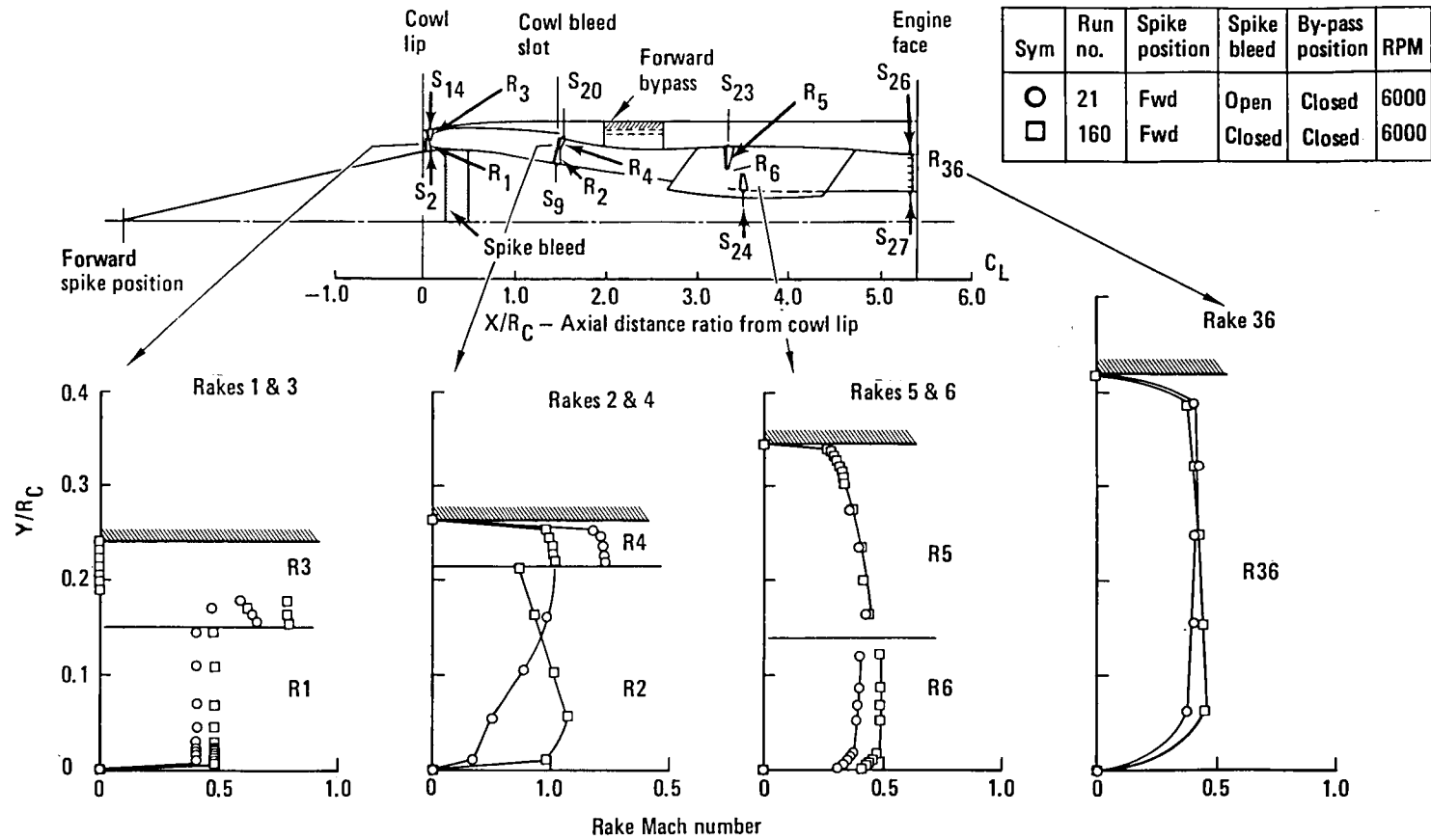


Figure 31c. Rake Mach number profiles with spike bleed open and closed: spike forward, bypass closed, and 6000 rpm.

Inlet Acoustic Behavior

Noise Source. - The J-58 engine had a three-stage compressor with inlet guide vanes. Spacing ratios (gap/chord) between the components were approximately one. Hub to tip ratio was 0.50. The blade and vane count is given below.

J58 - Number of Stators and Vanes

Inlet Guide Vanes	20
First Stage Blades	34
First Stage Vanes	78
Second Stage Blades	52
Second Stage Vanes	82
Third Stage Blades	76
Third Stage Vanes	114

Based on interpretation of the test data, the primary noise source was the first stage of the compressor. Using the methods of reference 3, the basic noise mechanisms of the first stage compressor were blade-vane interaction, rotor-alone, and multiple-pure-tone. Blade-vane noise was generated by interaction between the rotor and inlet guide vanes and appeared in the test data at blade passing frequency (BPF). Rotor-alone noise was seen at the first harmonic of BPF. The second harmonic of BPF was not significant at any of the test conditions. Multiple-pure-tone noise became significant at engine speeds greater than 6000 rpm in the 1000 Hz to 2000 Hz frequency range.

Tabulations of Acoustic Data. - Appendices B and C contain tabulations of all the reduced acoustic data taken for the YF-12 aircraft and the bellmouth inlet/J58 engine tests, respectively.

Far-Field Perceived Noise Level. - A broad overview of the results of the test program is provided by figure 32 which shows the PNL at zero degrees from the inlet centerline and at about 25m from the engine face versus corrected engine speed. These data were recorded by microphone F1 for the YF-12 inlet and microphone B4 for the bellmouth inlet.

There was some uncertainty about the magnitude of engine speed for the bellmouth data. During the bellmouth tests, the tachometer signal was not recorded. In figure 32, the bellmouth data from microphone B4 are shown at the nominal engine speed set during the tests. By contrast, engine speed for the YF-12 microphone F1 data represents the average value over the 30 second measurement interval, as determined from the recorded tachometer signal.

Microphone B4 was 25m from the engine face in the bellmouth inlet tests. Microphone F1 was 22.9m (75.0 ft) from the plane of the YF-12 inlet cowl lip. Thus, these two microphones were at approximately the same distance from the engine face. No distance corrections were applied to these measurements.

In comparing the results for the bellmouth inlet with those of the YF-12 inlet in its normal low-speed configuration (spike forward, bypass open, spike bleed open), the differences in PNL varied with engine speed. At 5000 rpm, the bellmouth case was roughly one PNdB higher. This difference increased to about 5 PNdB at 6000 rpm. Above 6000 rpm, the difference was 3 to 5 PNdB, with some uncertainty caused by the scatter in the bellmouth inlet data. The other YF-12 inlet configurations produced even lower noise levels. The greatest reductions were provided by the case with spike forward, bypass closed, and spike bleed closed. From 6000 rpm to 6700 rpm, this configuration gave noise levels about 11 PNdB lower than the bellmouth inlet.

As engine speed increased to about 6000 rpm, there was a general increase in PNL. Further increases in engine speed produced rather steep decreases in PNL, however. The details varied with inlet configuration, as is evident from figure 32. These changes in PNL with engine speed were apparently related to changes in engine source noise, as obtained from the bellmouth data and from measurements at K14 and K12.

Closing the bypass door resulted in a significant decrease in PNL. For spike forward and spike bleed open, the PNL difference increased from about one PNdB at 5000 rpm, to about 3 PNdB at 6000 rpm, to about 4 PNdB at 6700 rpm. The bypass door effect was much larger with the spike bleed closed. Then the differences were about 2, 6, and 7 PNdB at 5000, 6000, and 6700 rpm, respectively. With the spike midway, the behavior was similar to that with the spike forward.

Closing the spike bleed perforations resulted, in general, in a decrease in PNL, with a greater effect with the bypass closed than with the bypass open. For bypass doors open, the difference was of the order of one PNdB over the entire engine speed range. For bypass doors closed, however, the difference was about 4 PNdB at speeds above 6000 rpm. This strong effect of spike bleed closure appeared to be related to flow acceleration at the cowl lip. Closing the spike bleed forced more air to enter the inlet by flowing past the cowl lip. This in turn increased flow separation and maximum Mach number at the cowl lip station. Figures 25, 30c, and 31c illustrate these effects. The effect was small when the bypass was open, because the bypass was an alternate path for the incoming air.

Moving the spike from the forward to the midway position produced only small changes in PNL. This is illustrated in figure 32 for both bypass-open and bypass-closed cases. Further spike translation from midway to aft position produced a large change in PNL, however. At 5000 rpm the difference was small. It increased to about 6 PNdB near 6000 rpm, and was about 3 PNdB at 6700 rpm.

Comparison of YF-12 and Bellmouth Inlets. - Comparison of the far-field noise data for the YF-12 and bellmouth inlets was of particular interest, as the bellmouth provided a convenient reference condition. To amplify the results shown in figure 32, sample results of PNL and one-third octave band SPL are shown in figures 33 through 36 for nominal engine speeds of 5000, 6000, and 6600 rpm. The YF-12 inlet had spike forward, bypass open, and spike bleed open.

The polar plots of PNL in figure 33 revealed that the YF-12 noise level was greatest at zero degrees from the inlet centerline, while it was greatest at 40 degrees for the bellmouth inlet. Thus, if the maximum values of PNL were compared, the differences between the inlets would be greater than indicated in figure 32. The bellmouth data was from microphones B3, B5, and B6 at 20m from the engine face. Thus, the PNL values for the two inlets in figure 33 are not directly comparable. Adjusting this bellmouth data to 25m would reduce the values by about 2 PNdB, assuming decay by the inverse square of distance from the source.

The far-field spectra at zero degrees revealed little difference near the BPF at 5000 rpm (figure 34). The differences in the spectra of the two inlets increased with engine speed (figures 35 and 36). At 6600 rpm the peak near the BPF had disappeared for the YF-12 inlet, while it was distinct for the bellmouth inlet.

Far-field narrow band spectra for the J58 engine with the bellmouth inlet are shown in figure 37. These measurements were at 25 m, zero degrees, and at engine speeds of 5000, 6000, and 6600 rpm. They thus correspond to the one-third octave band results in figures 34, 35, and 36. These spectra illustrate the increase in SPL near the BPF as engine speed increased from 5000 to 6000 rpm, followed by the decrease in SPL as engine speed increased to 6600 rpm. These narrow band spectra also show the presence of MPT's at 6000 rpm and above.

Effects of Engine Speed. - Some of the effects of engine speed on the YF-12 inlet acoustics are summarized here for the case of spike forward, bypass open, and spike bleed open. Corresponding inlet pressures and Mach numbers were given in figure 26. Figure 38 shows far-field PNL. The zero degree data were also shown in figure 32. The corresponding spectra for zero degrees are shown in figure 39. Again note the loss of the peak near the BPF at 6600 rpm.

One-third octave band spectra for the inlet are compared with far-field microphone F1 at zero degrees for 5000 rpm in figure 40a. These spectra have similar shapes above 1000 Hz, and exhibit peaks near the BPF. Narrow band spectra for the inlet are given in figure 40b. The relatively large decrease in SPL at the BPF from K14 to K5 is apparent.

One-third octave band and narrow band spectra for 6000 rpm are shown in figures 41a and 41b, respectively. The trends in the one-third octave band spectra were similar to those at 5000 rpm. The narrow band spectra show distinct peaks near the BPF for K14 and K12 and corresponding broader peaks for K5, K3, and K1. The high-frequency spectrum for K10 was relatively flat, however. Figure 41b also shows MPTs in K14 and K12. These were more pronounced for K12, probably because it was closer to the compressor blade tips. (See figures 4 and 5.) It is interesting that the MPTs were much less for K10, which was just upstream of the struts. The MPTs were also weaker for K5, K3, and K1.

At 6600 rpm, there was a significant change in the spectra of K5, K3, K1, and F1 above 1000 Hz. This is illustrated in figure 42a for the one-third octave band spectra. Narrow-band inlet spectra are given in figure 42b. There were distinct peaks near the BPF only for K14 and K12. Again MPTs virtually disappeared across the struts from K12 to K10, and were less distinct for K5, K3, and K1.

There was a large change in SPL near the BPF from K14 to K5 at all engine speeds. Also, for the spike Kulites, the peak in SPL near the BPF first disappeared between K14 and K5. This was the region of the inlet that contained the spike support struts and the bypass doors. There was thus a suggestion that the change in spectrum shape was related to an effect of the struts and/or an effect of the open bypass. To provide some clarification of this point, one-third octave band inlet spectra for spike forward, bypass closed, and spike bleed open at 6600 rpm are shown in figure 43. Again the peak near the BPF disappeared between K14 and K5, suggesting that this effect was related to the presence of the struts. This was supported by the spectra for K12 and K10 in figures 41b and 42b. The open bypass seems to have caused a greater reduction in SPL from K14 to K5 than a change in spectrum shape. It is not yet known whether this was related to the bypass inflow or to noise radiated out through the open bypass. Also, note that the spectra for K3 and K1 were much flatter above 1000 Hz with the bypass closed. A possible cause was the higher throat Mach numbers that were present with the bypass closed. (See figures 25 and 28c.)

Effects of Bypass Door Opening. - Figure 44 shows the directional variation in far-field PNL at 6000 rpm for the bypass open and closed, the spike forward, and the spike bleed open. The data at zero degrees were also shown in figure 32. The angular distributions were similar.

The spectra at 6000 rpm and zero degrees in figure 45 show similar shape for bypass open and closed.

Corresponding inlet pressure and Mach number data were shown in figure 27.

Inlet spectra at 6000 rpm with the bypass closed are shown in figures 46a and b. These figures can be compared with figures 41 in which the bypass was open. The principal differences in the one-third octave band spectra seem to be in the relative SPL. Thus, with the bypass closed there was a more gradual decrease of SPL near the BPF from K14 to K1. With the bypass open, there was a large drop in SPL from K14 to K5, followed by a much smaller drop from K5 to K1. This behavior was consistent with that at 6600 rpm described in the Effects of Engine Speed section.

The narrow band spectra for K12 and K10 were most strongly affected by closing the bypass, probably because they were closest to it. Comparing figures 46b and 41b, the peak in K12 near the BPF was lower with the bypass closed, but the MPTs seemed stronger. K10 showed more energy at high frequencies with the bypass closed.

Effects of Spike Bleed Opening. - The angular variation of far-field PNL at 6000 rpm is shown in figure 47 for spike forward, bypass open, and spike bleed open and closed. The data at zero degrees were given in figure 32. As pointed out in the Far-Field Perceived Noise Level section, the effect of spike bleed opening was rather small when the bypass was open.

The far-field spectra at 6000 rpm and zero degrees, shown in figure 48, have similar shapes and rather small differences in SPL.

Corresponding inlet pressure and Mach number data are shown in figure 30.

Inlet spectra at 6000 rpm with spike forward, bypass open, and spike bleed closed are shown in figure 49. These spectra can be compared with those in figure 41a for which the spike bleed was open. The spectra are generally similar, confirming the far-field results that indicated a small effect of spike bleed opening when the bypass was open. This was also consistent with the small increase in maximum Mach number near the cowl lip for this case.

The effect of spike bleed opening was greater with the bypass closed, as noted previously in the Far-Field Perceived Noise Level section. Figure 50 shows the far-field PNL at 6000 rpm for spike forward, bypass closed, and spike bleed open and closed. The data at zero degrees were shown in figure 32. The peak at 20 degrees with the bleed closed is presently unexplained. The greatest difference caused by spike bleed closure was at zero degrees. The far-field spectra at 6000 rpm and zero degrees are shown in figure 51. The spectrum with spike bleed closed did not have a peak near the BPF, thus accounting for the rather large difference in PNL.

Corresponding inlet pressure and Mach number data are shown in figure 31.

The corresponding inlet spectra at 6000 rpm for spike forward, bypass closed, and spike bleed closed are shown in figure 52. These spectra can be compared with those of figure 46a, in which the spike bleed was open. The main effect of closing the spike bleed was to produce a large drop in SPL near the BPF from K3 to K1. These are the Kulites on either side of the spike bleed. Also notable was that the peak in the K1 spectrum near the BPF was nearly gone. This behavior suggests a relationship between the higher local Mach numbers near the cowl lip and the change in spectrum and SPL from K3 to K1. Although the flow was not choked, there was a strong local acceleration which may have affected the sound propagation.

If the preceding relationship is valid, then spike bleed closure may have a smaller effect when the aircraft has forward speed. The required flow turning would be less, and the pressure difference across the bleed system would be smaller.

Figures 46a and 52 each show that with the bypass closed, the reduction in SPL near the BPF from K14 to K5 was much less than with the bypass open. This was again consistent with the behavior described in the Effects of Engine Speed section.

Effects of Spike Position. - It was indicated previously in the Far-Field Perceived Noise Level section that translating the spike from the forward to the midway position had a small effect on far-field PNL. Further translation to the aft position produced significant changes, however. Figure 53 amplifies these results by showing the angular variation of PNL at 6000 rpm for bypass open and spike bleed open. The data at zero degrees were shown in figure 32.

Corresponding spectra at zero degrees and 6000 rpm are shown in figure 54. Again, the spectra for spike forward and spike midway were similar. The spectrum for spike aft had no peak near the BPF and a lower SPL above 1000 Hz.

Corresponding inlet pressure and Mach number data are shown in figure 29.

Inlet spectra at 6000 rpm, for spike aft, bypass open, spike bleed open are given in figure 55. K1, K3, and K5 here had different axial positions from the spike-forward cases. Referring to figures 5 and 7, K1 was upstream of the throat and opposite K6. K3 was downstream of the throat and opposite K8. K5 was just downstream of the bypass and near the leading edge of the struts. K5 was also opposite K10. The spectrum for K14 was very similar to that for the spike-forward case, shown in figure 41a. The spectral shapes for K5, K3, K1, and F1 changed from the spike-forward case, however. In particular, the peak near the BPF was missing.

The aerodynamic data (figure 29) reveal that when the bypass was open, the minimum wall static pressure was at x/r_c of 2.8, just downstream of the bypass. With the spike aft, this minimum pressure was significantly less than for spike forward or midway. Although choking was not indicated, this strong local acceleration may have affected the sound propagation characteristics.

There may also be a relationship between the change in duct area distribution with spike position and the sound propagation characteristics.

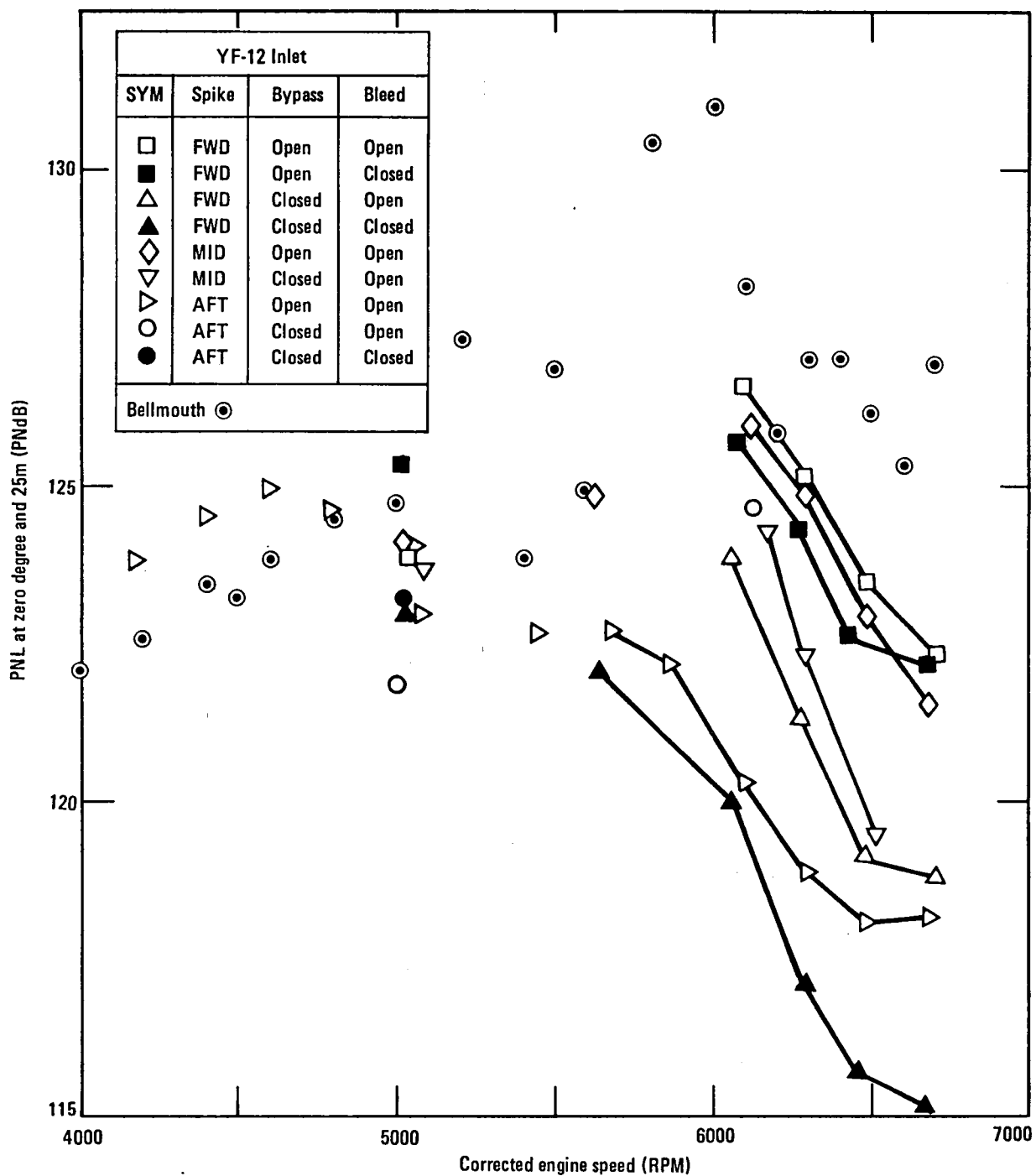


Figure 32. Far-field perceived noise level at zero degrees from inlet centerline and 25 m for YF-12 and bellmouth inlets.

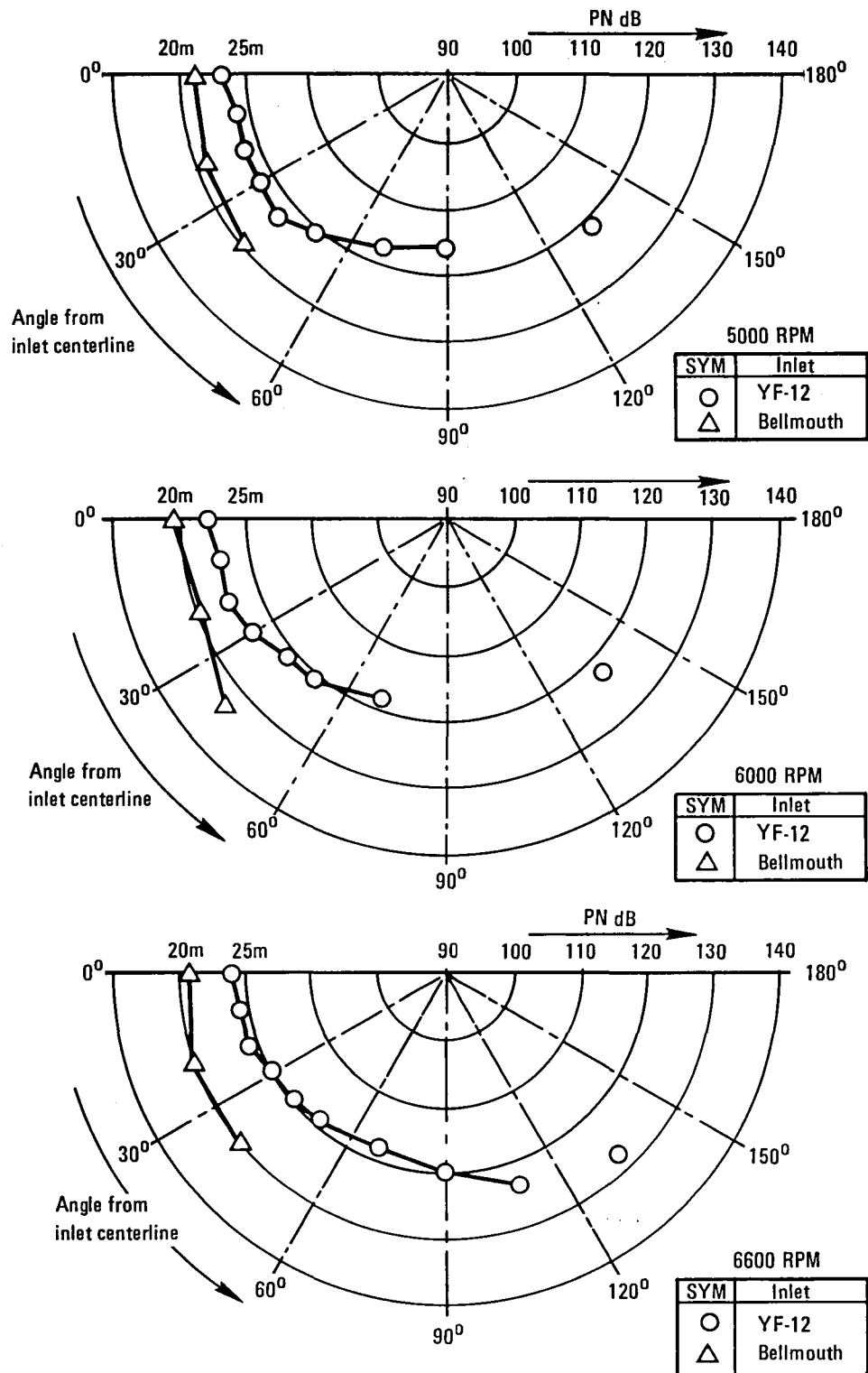


Figure 33. Far-field perceived noise level polars for the YF-12 and bellmouth inlets. YF-12 inlet with spike forward, bypass open, and spike bleed open.

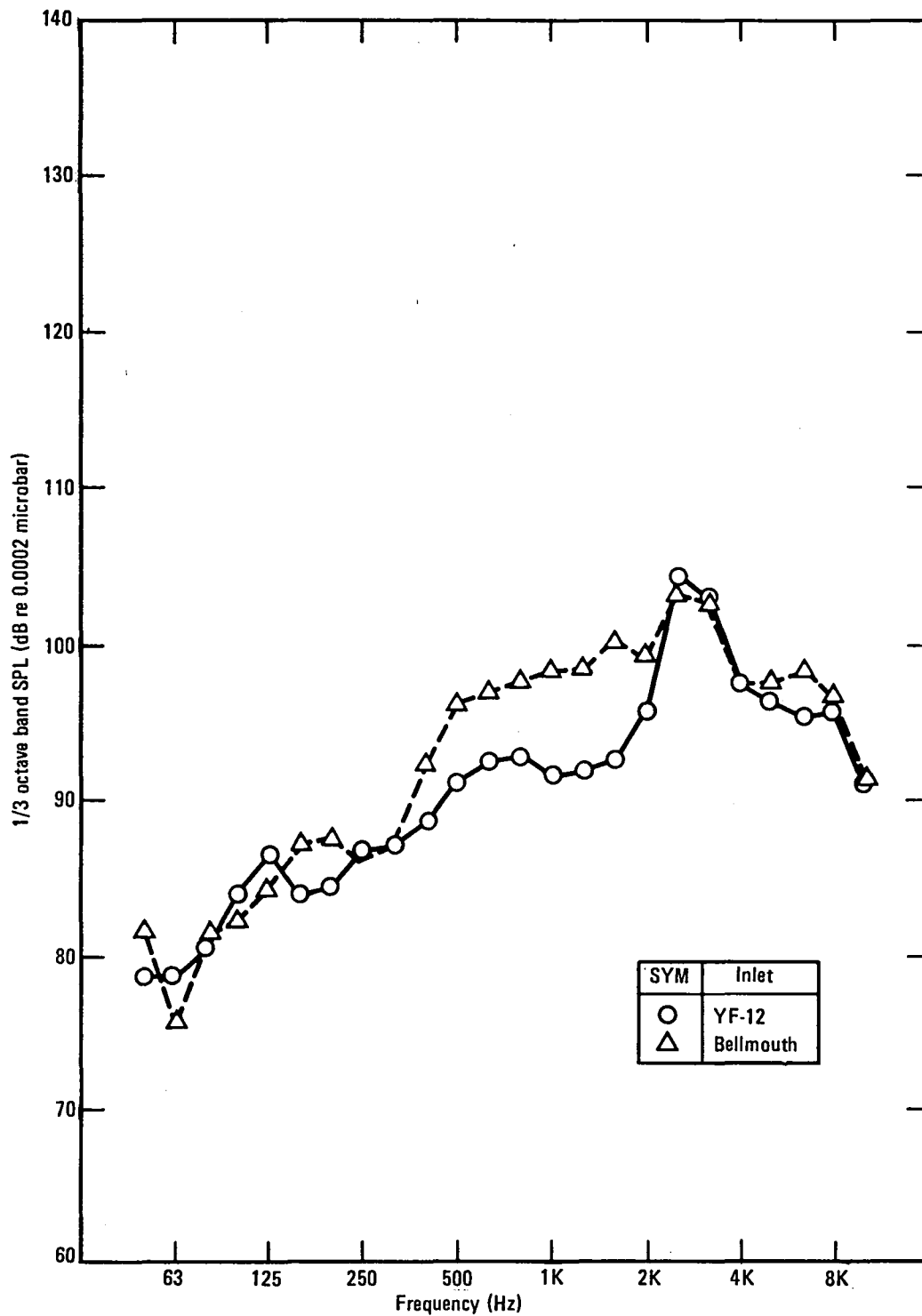


Figure 34. Far-field spectra for YF-12 inlet and bellmouth inlet at zero degrees and 5000 rpm. YF-12 inlet with spike forward, bypass open, and spike bleed open.

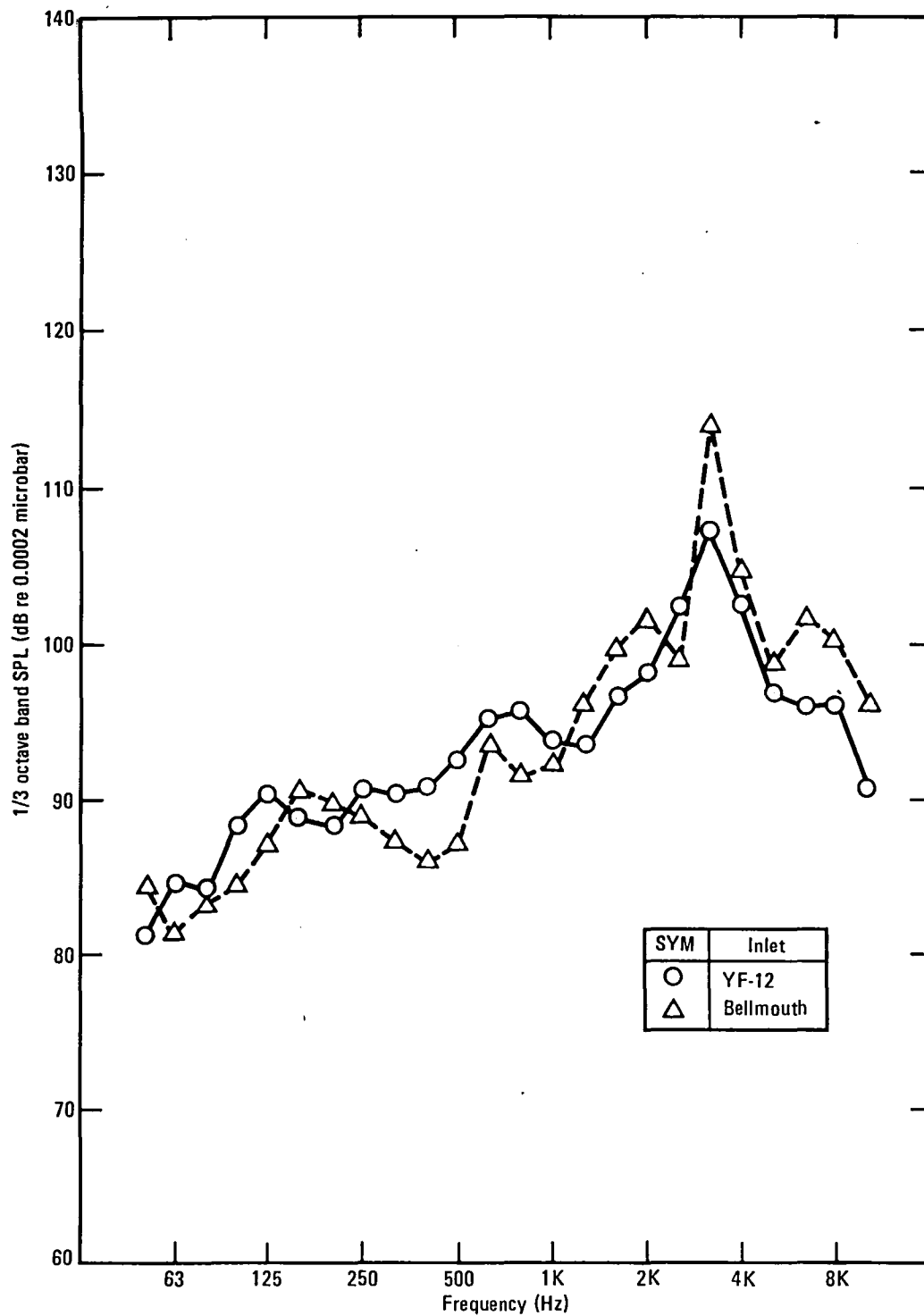


Figure 35. Far-field spectra for YF-12 inlet and bellmouth inlet at zero degrees and 6000 rpm. YF-12 inlet with spike forward, bypass open, and spike bleed open.

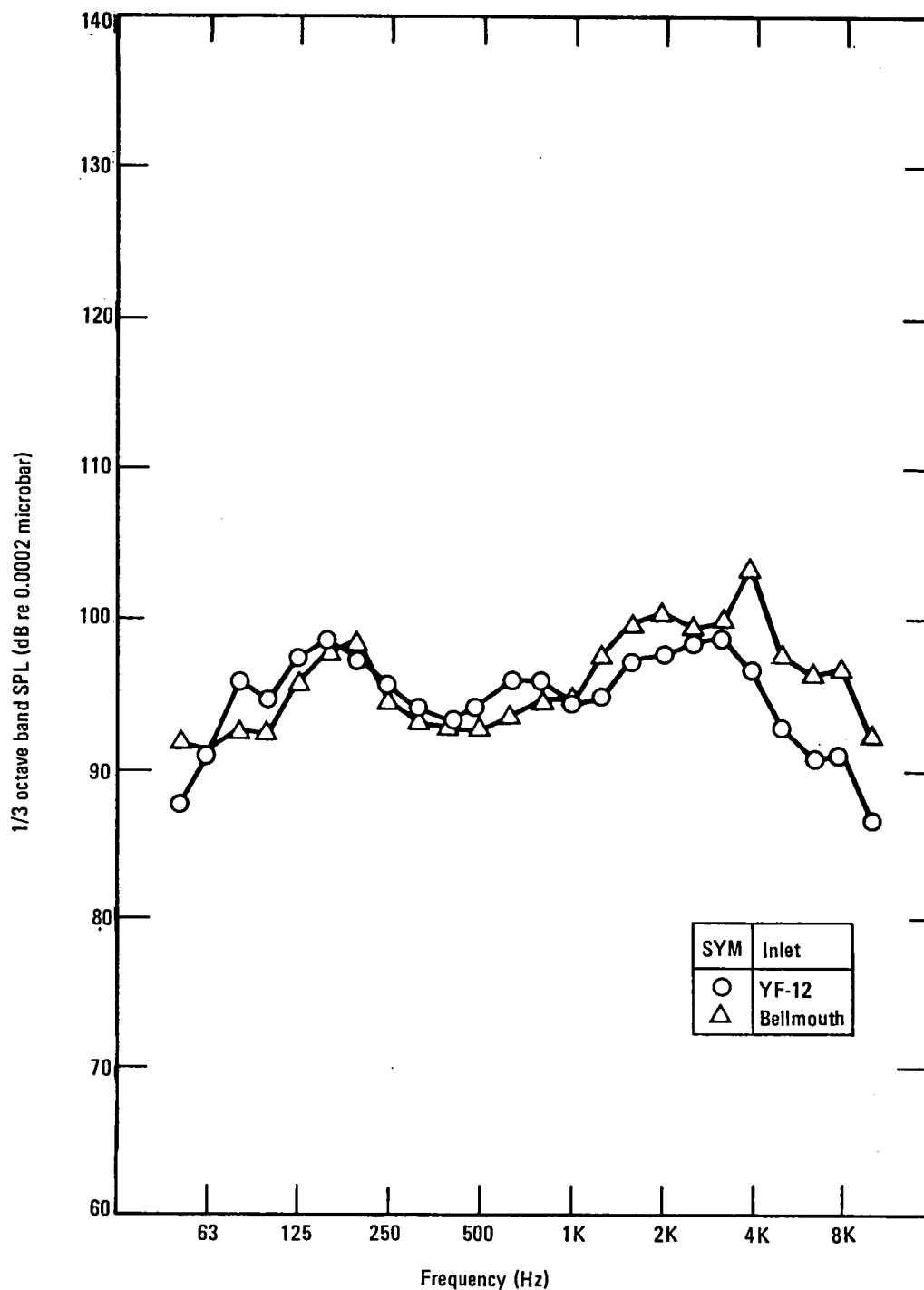


Figure 36. Far-field spectra for YF-12 inlet and bellmouth inlet at zero degrees and 6600 rpm. YF-12 inlet with spike forward, bypass open, and spike bleed open.

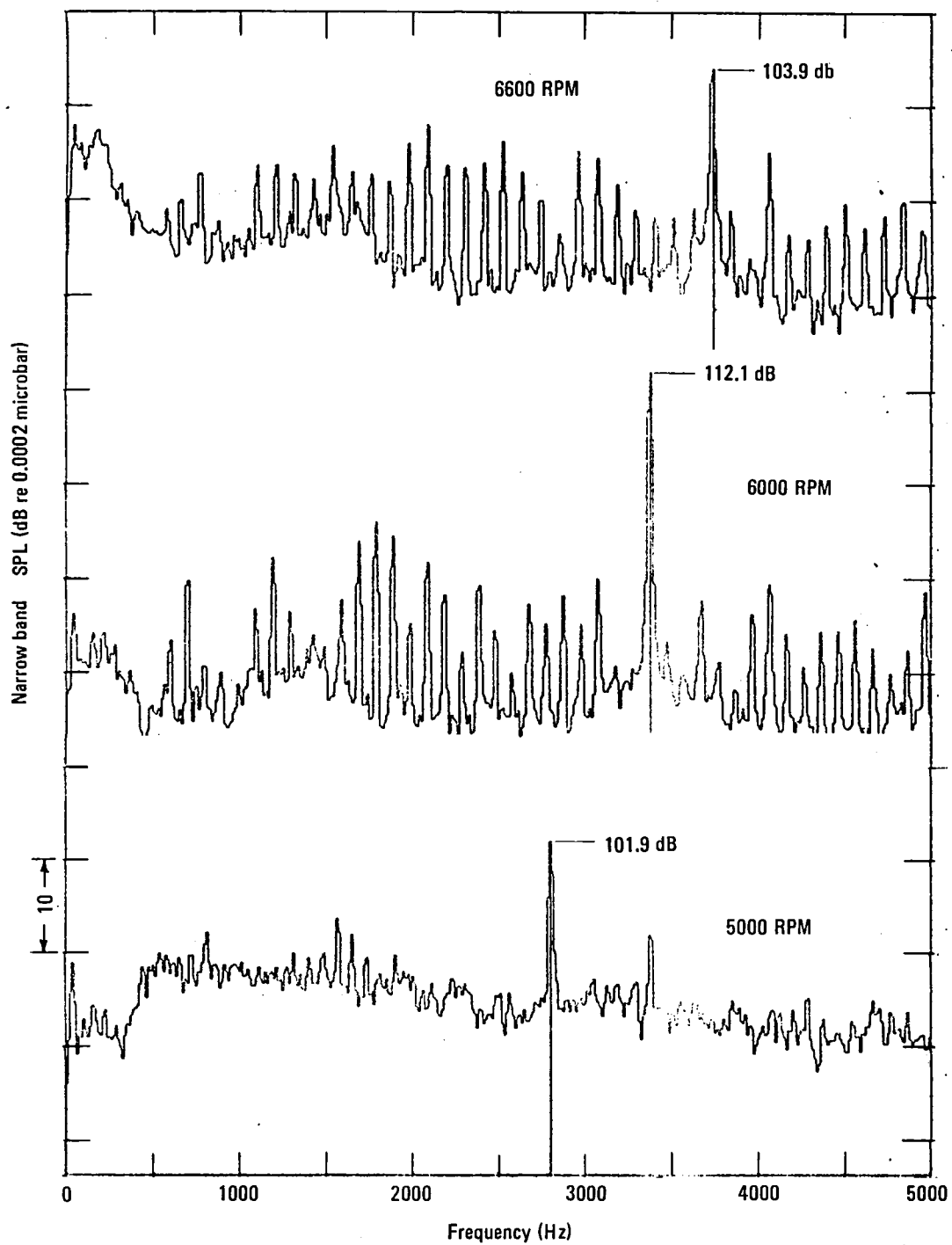


Figure 37. Narrow-band spectra for the bellmouth inlet.

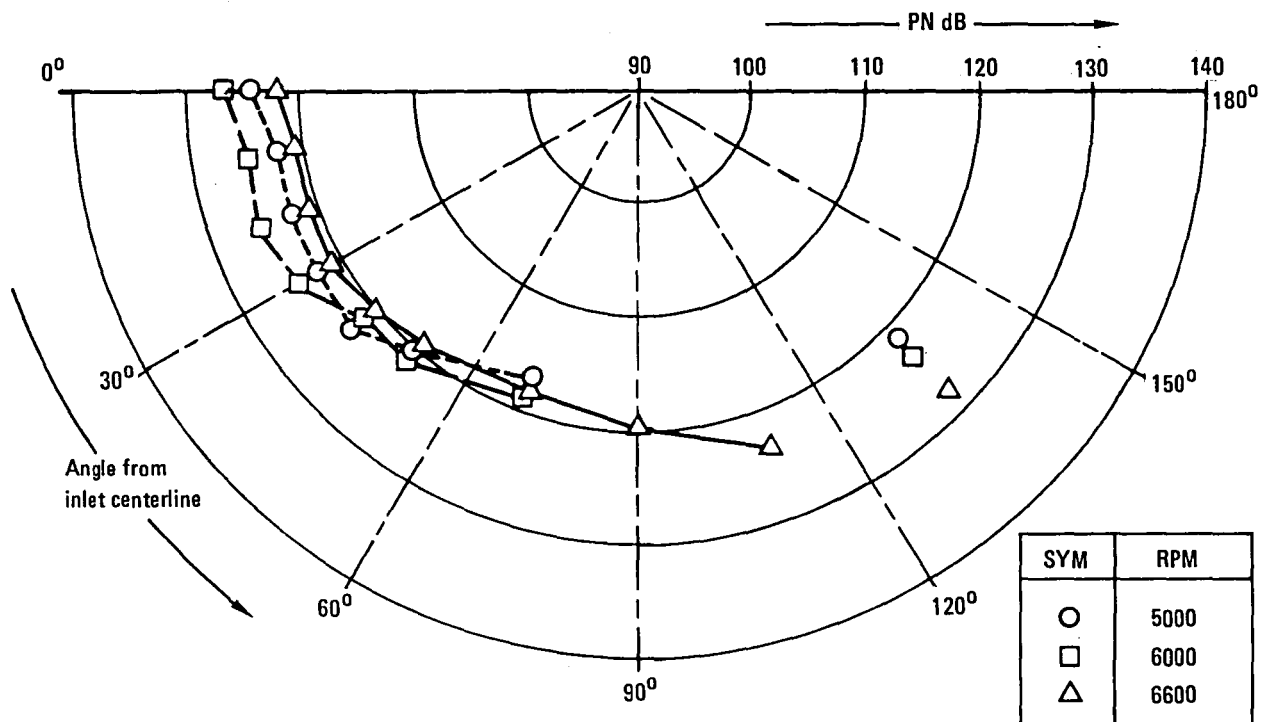


Figure 38. Effect of engine speed on far-field perceived noise level for YF-12 inlet: spike forward, bypass open, spike bleed open.

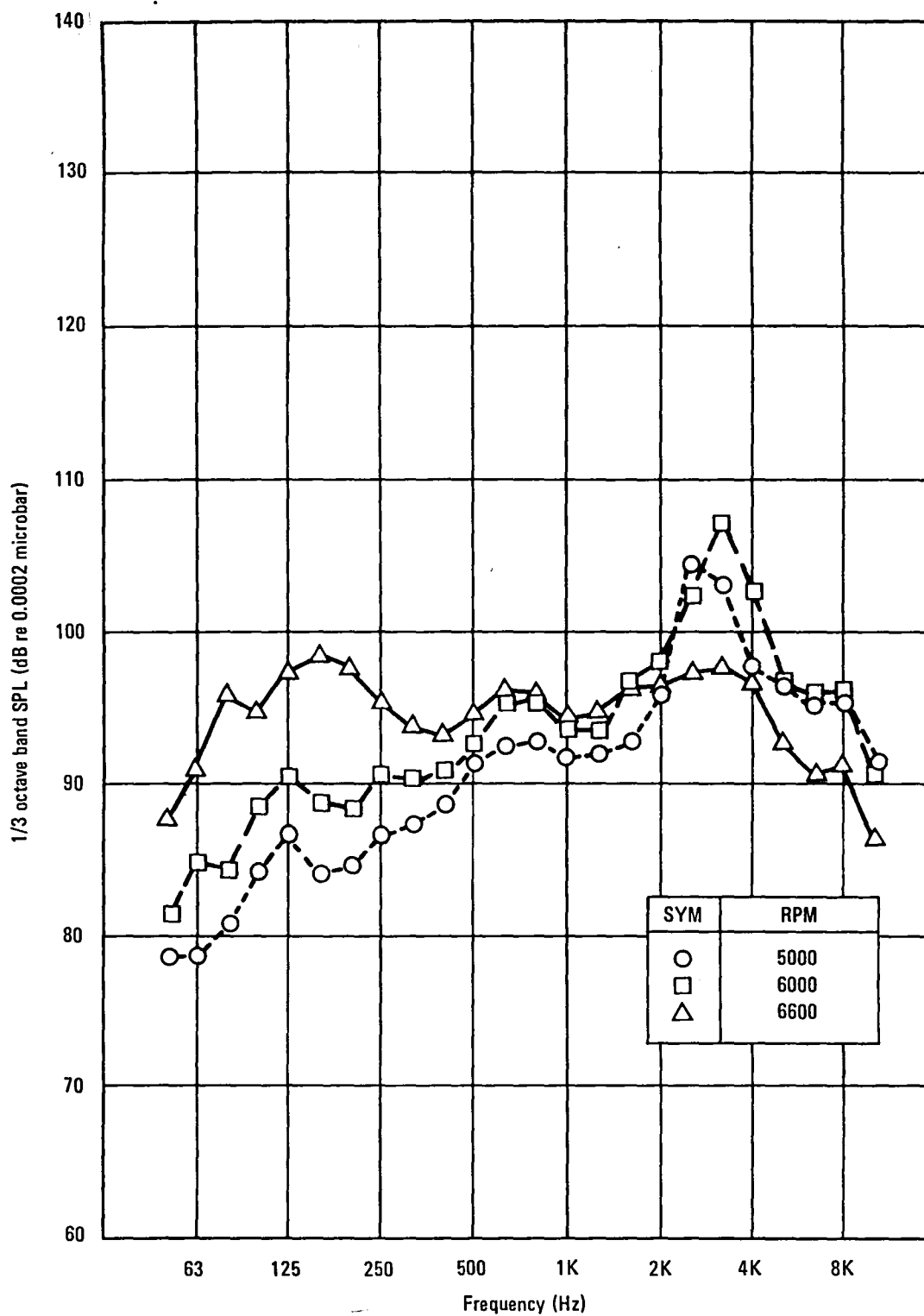


Figure 39. Effect of engine speed on far-field spectra at zero degrees for YF-12 inlet: spike forward, bypass open, spike bleed open.

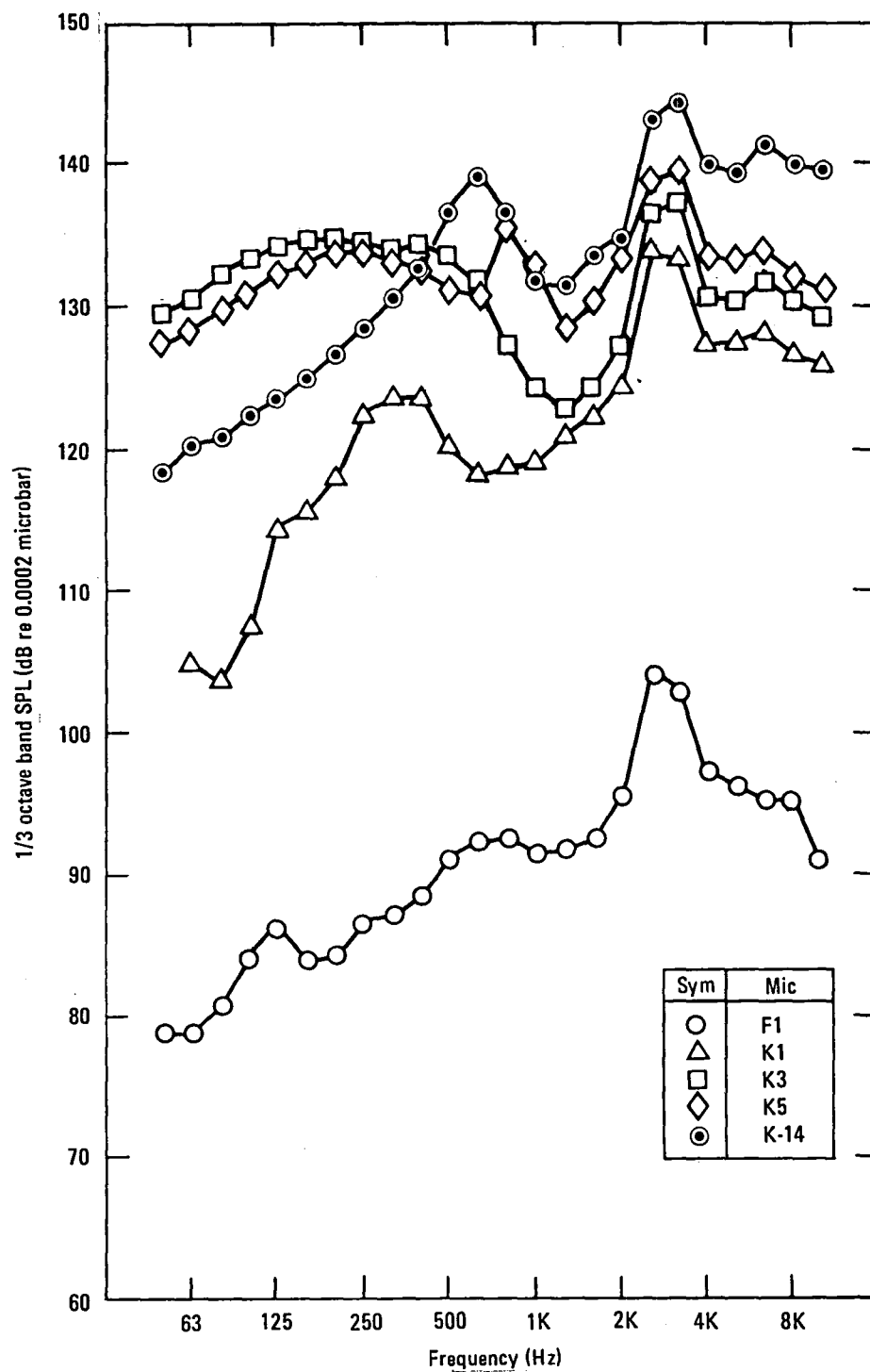


Figure 40a. YF-12 inlet spectra at 5000 rpm, spike forward, bypass open, and spike bleed open: one-third octave band.

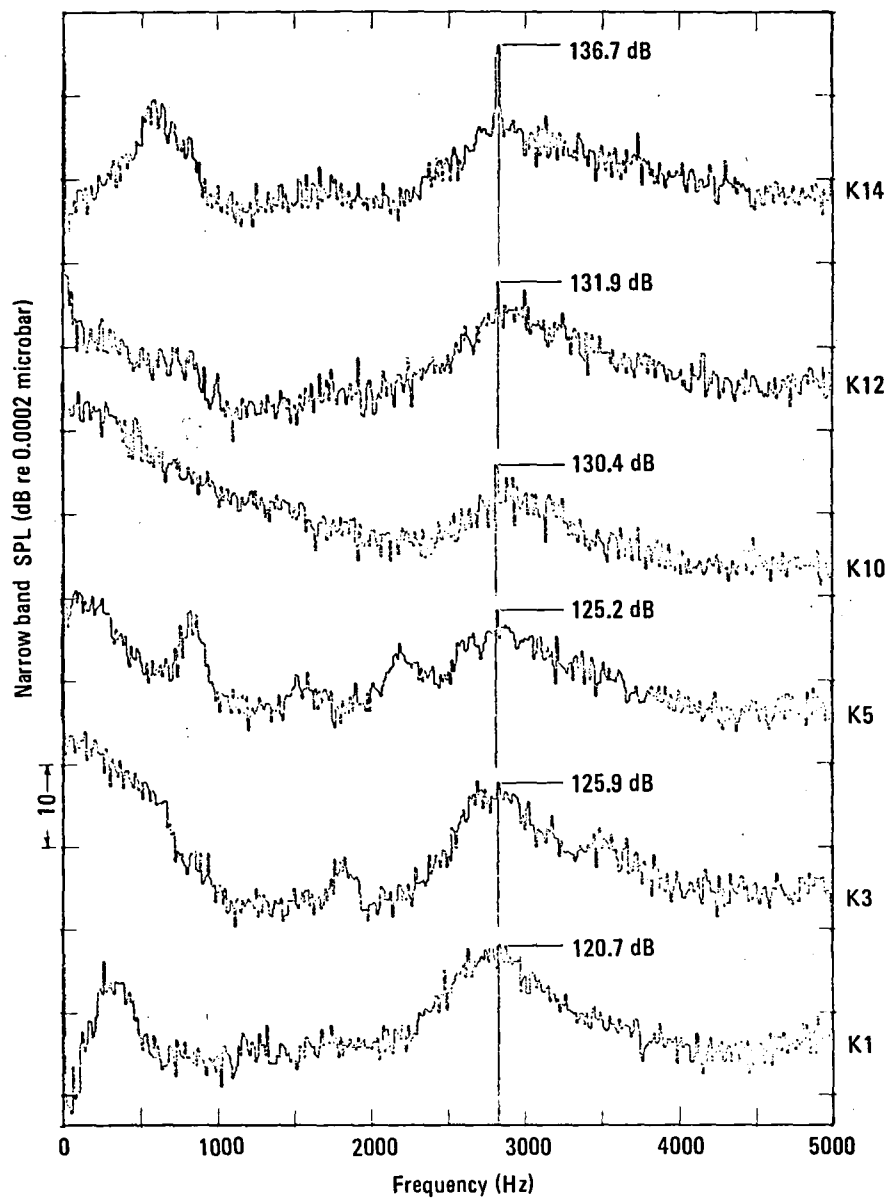


Figure 40b. YF-12 inlet spectra at 5000 rpm, spike forward, bypass open, and spike bleed open: narrow band.

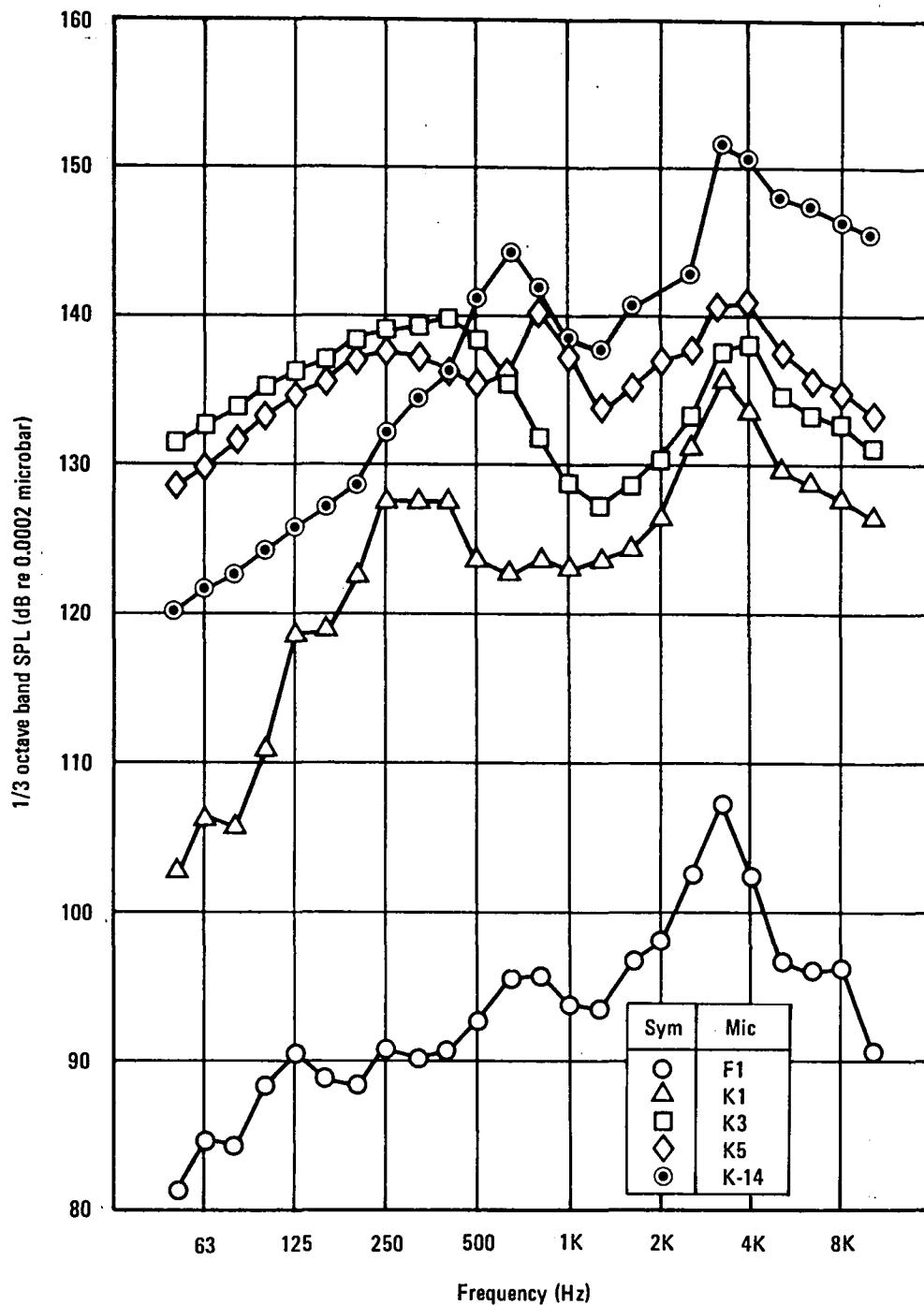


Figure 41a. YF-12 inlet spectra at 6000 rpm, spike forward, bypass open, and spike bleed open: one-third octave band.

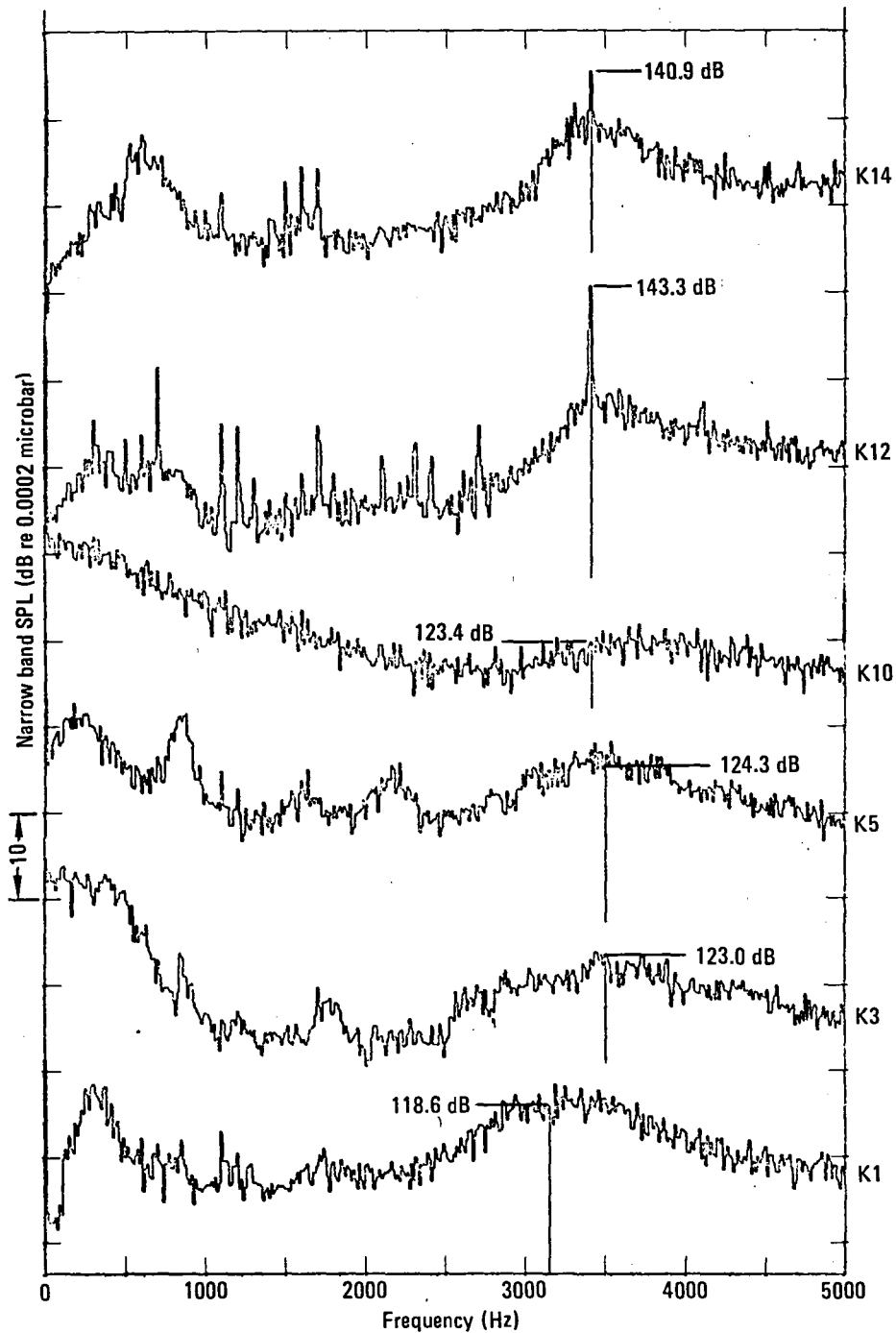


Figure 41b. YF-12 inlet spectra at 6000 rpm, spike forward, bypass open, and spike bleed open: narrow band.

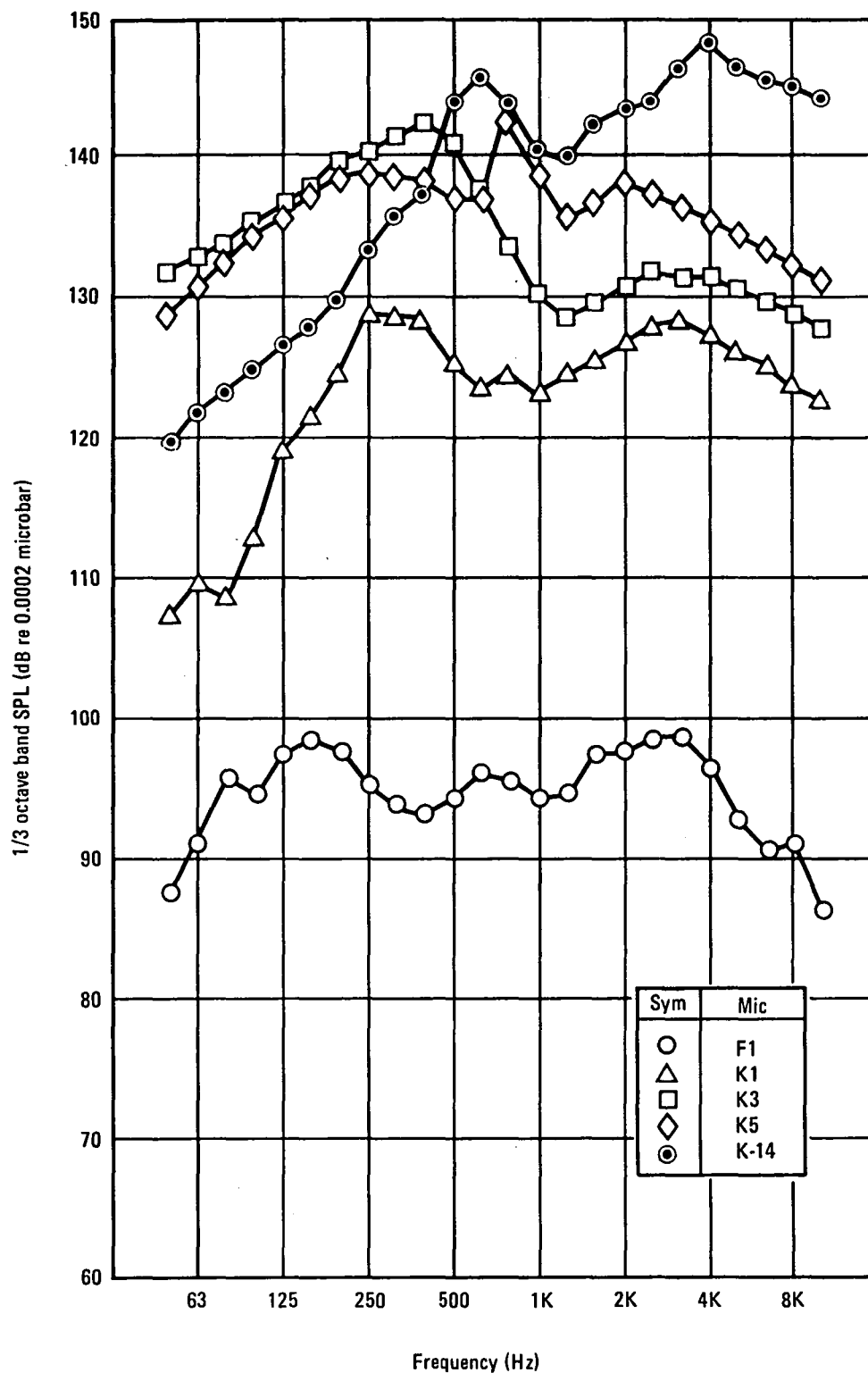


Figure 42a. YF-12 inlet spectra at 6600 rpm, spike forward, bypass open, and spike bleed open: one-third octave band.

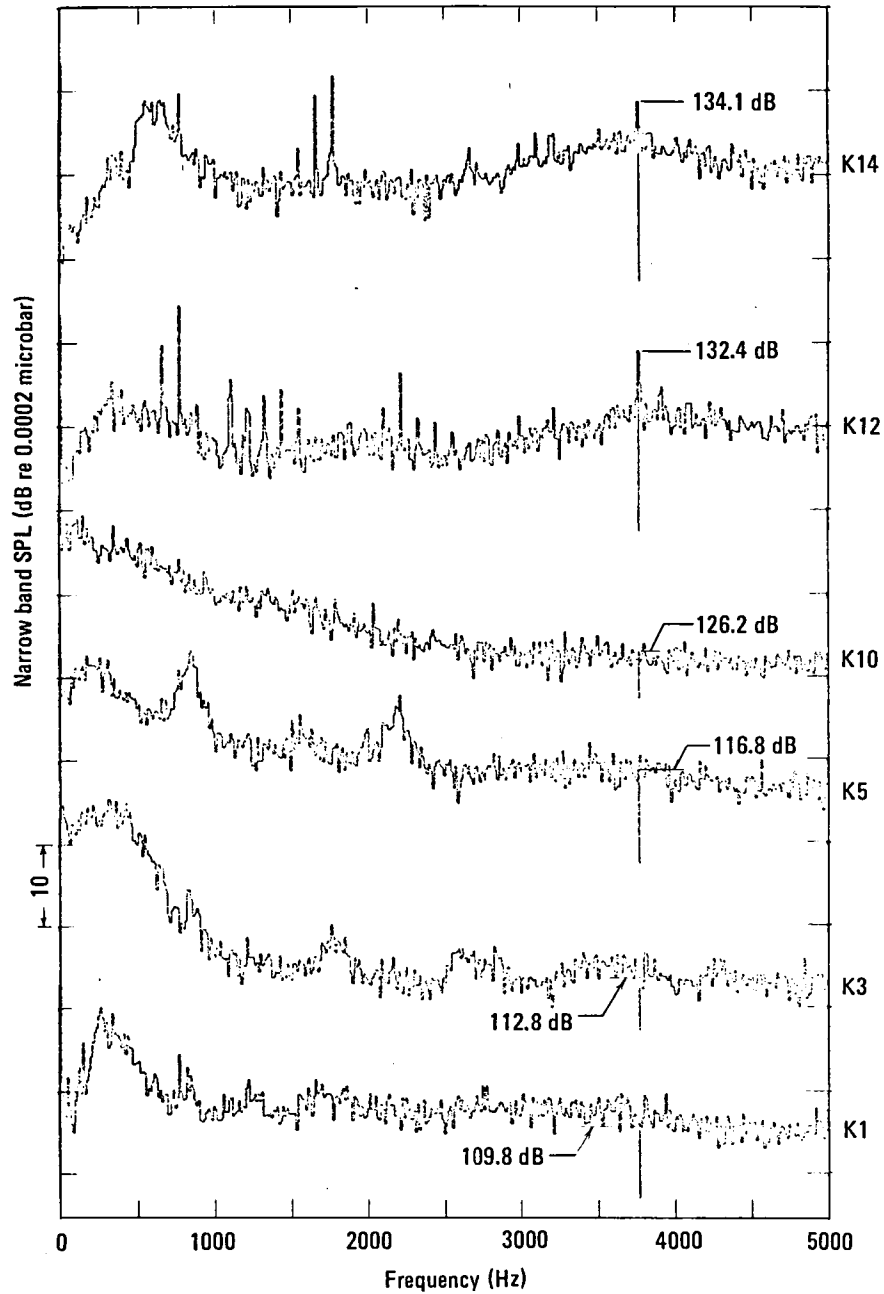


Figure 42b. YF-12 inlet spectra at 6600 rpm, spike forward, bypass open, and spike bleed open: narrow band.

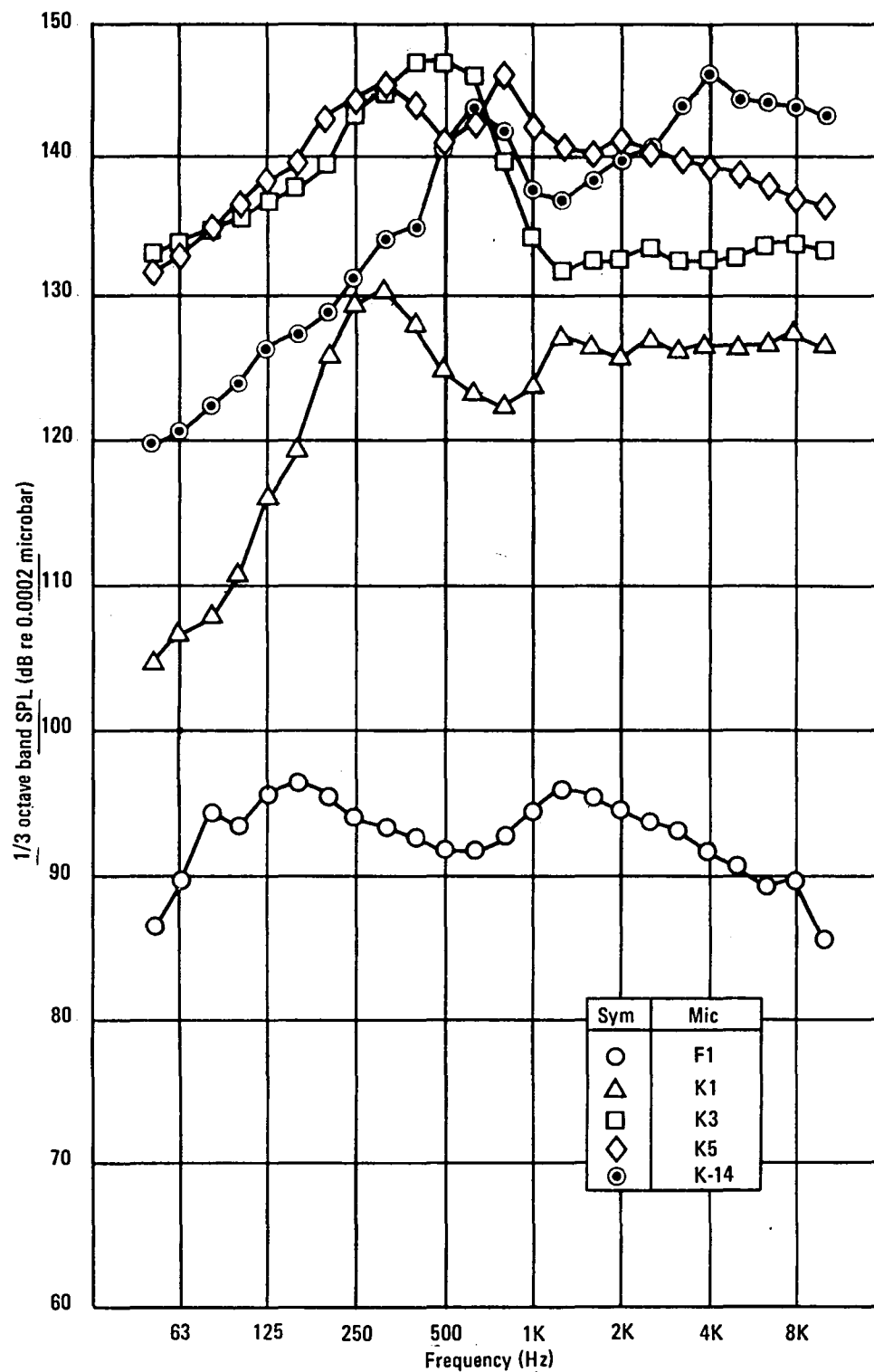


Figure 43. YF-12 inlet spectra at 6600 rpm, spike forward, bypass closed, spike bleed open.

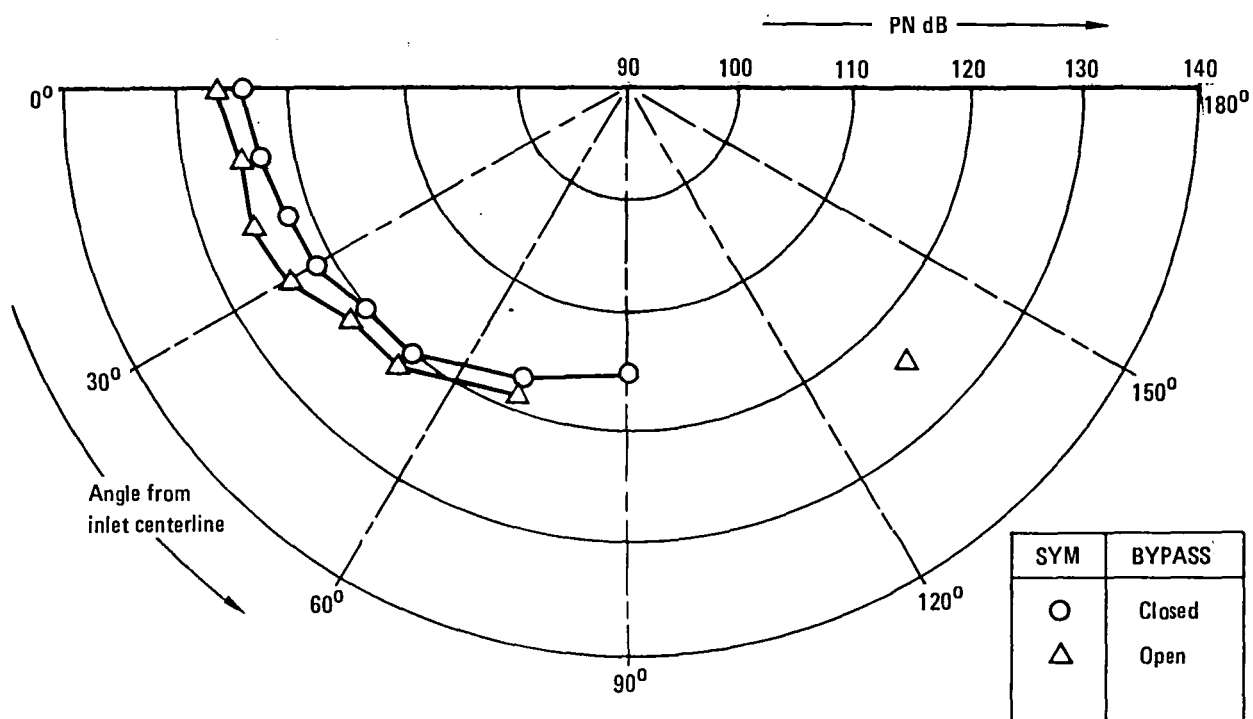


Figure 44. Effect of bypass opening on far-field perceived noise level for YF-12 inlet at 6000 rpm, spike forward, spike bleed open.

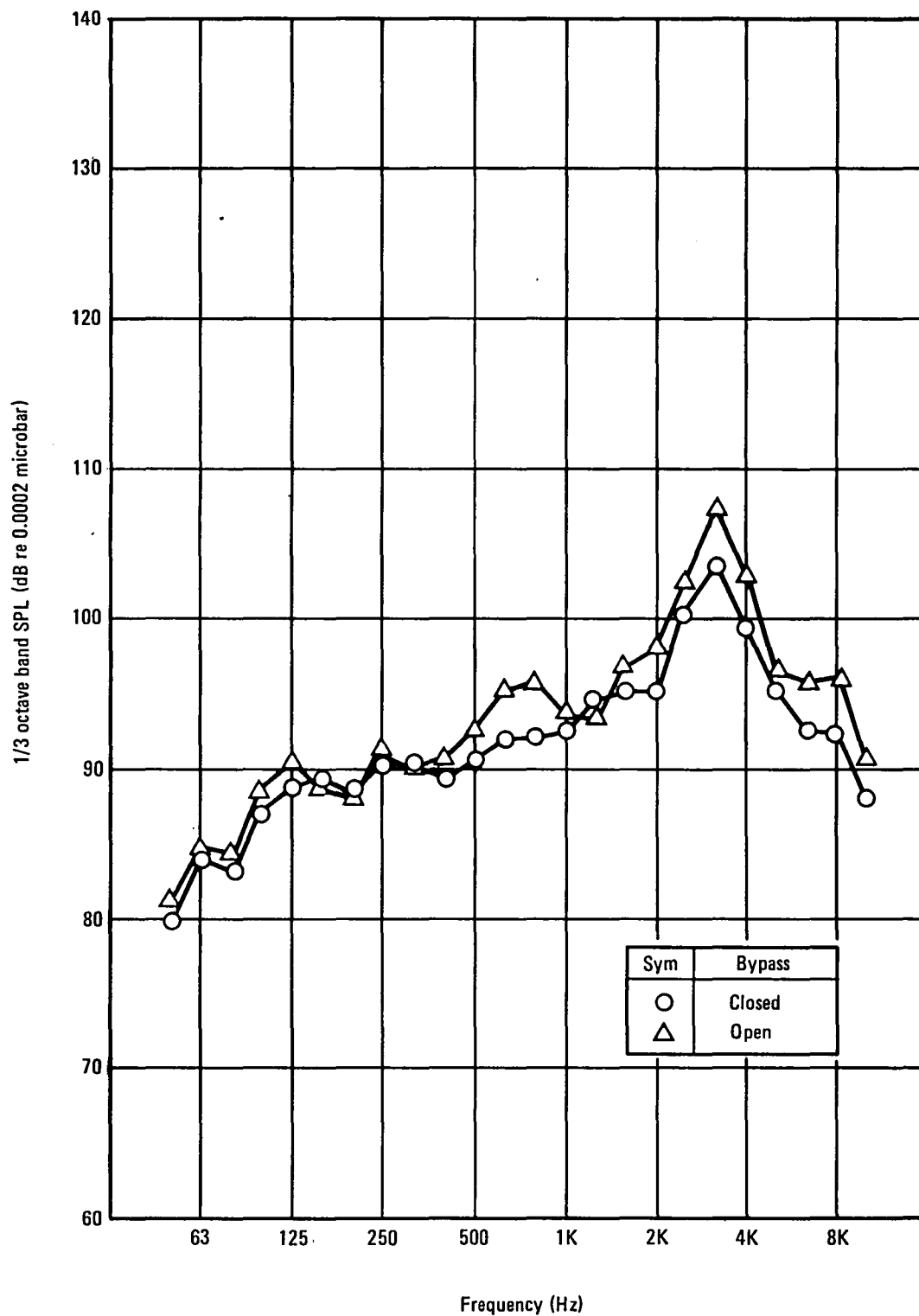


Figure 45. Effect of bypass opening on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, spike forward, spike bleed open.

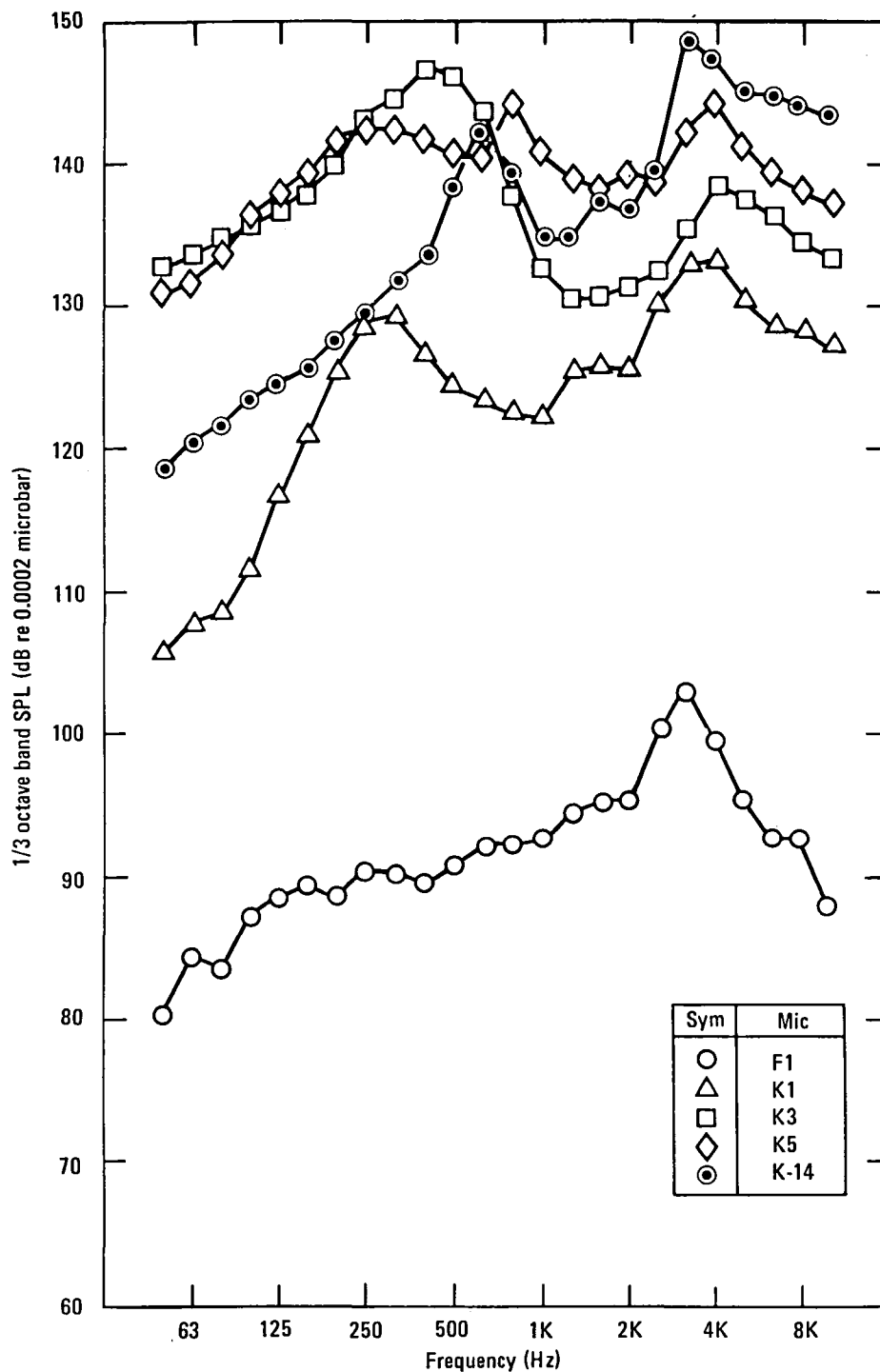


Figure 46a. YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, and spike bleed open: one-third octave band.

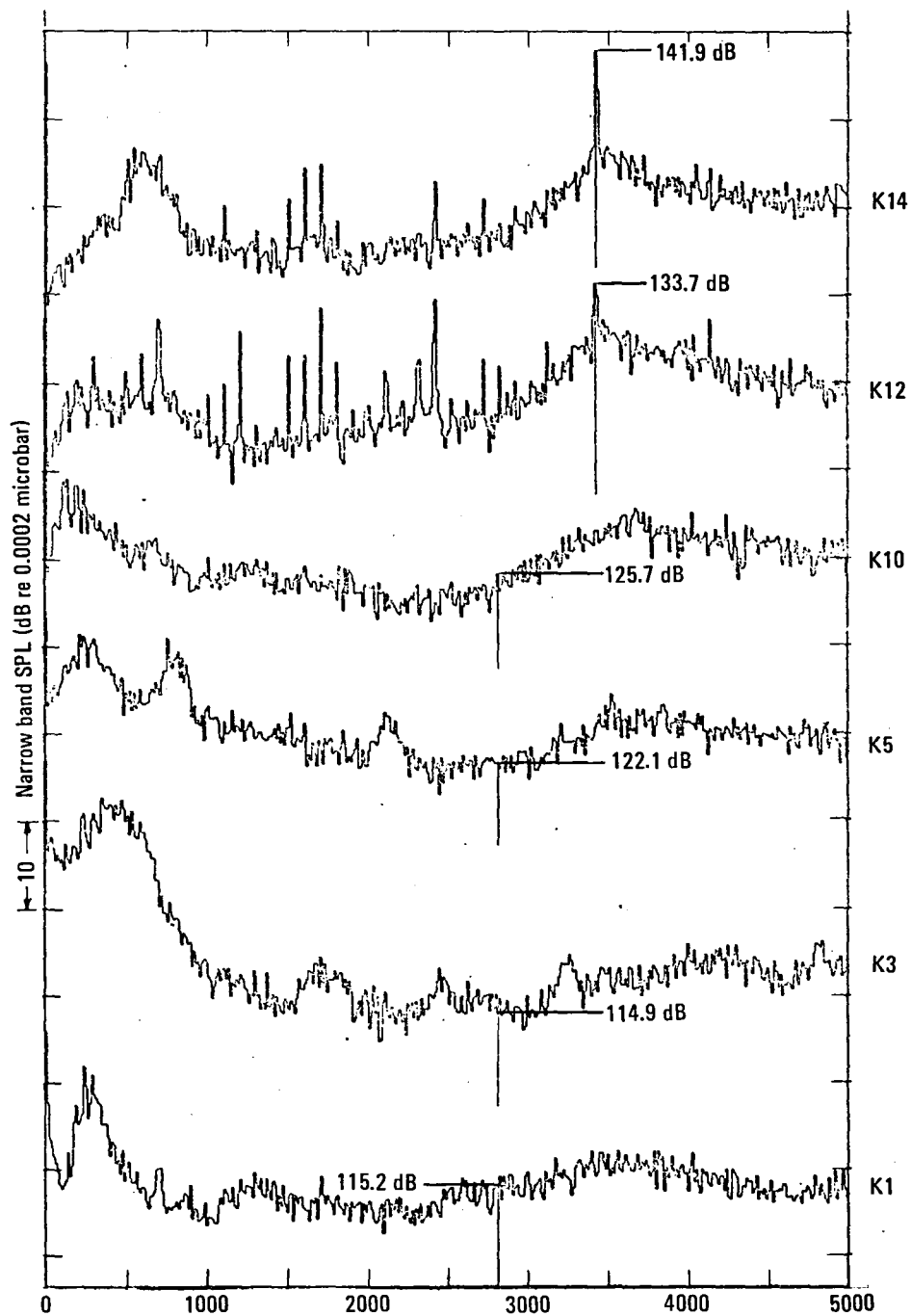


Figure 46b. YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, and spike bleed open: narrow band.

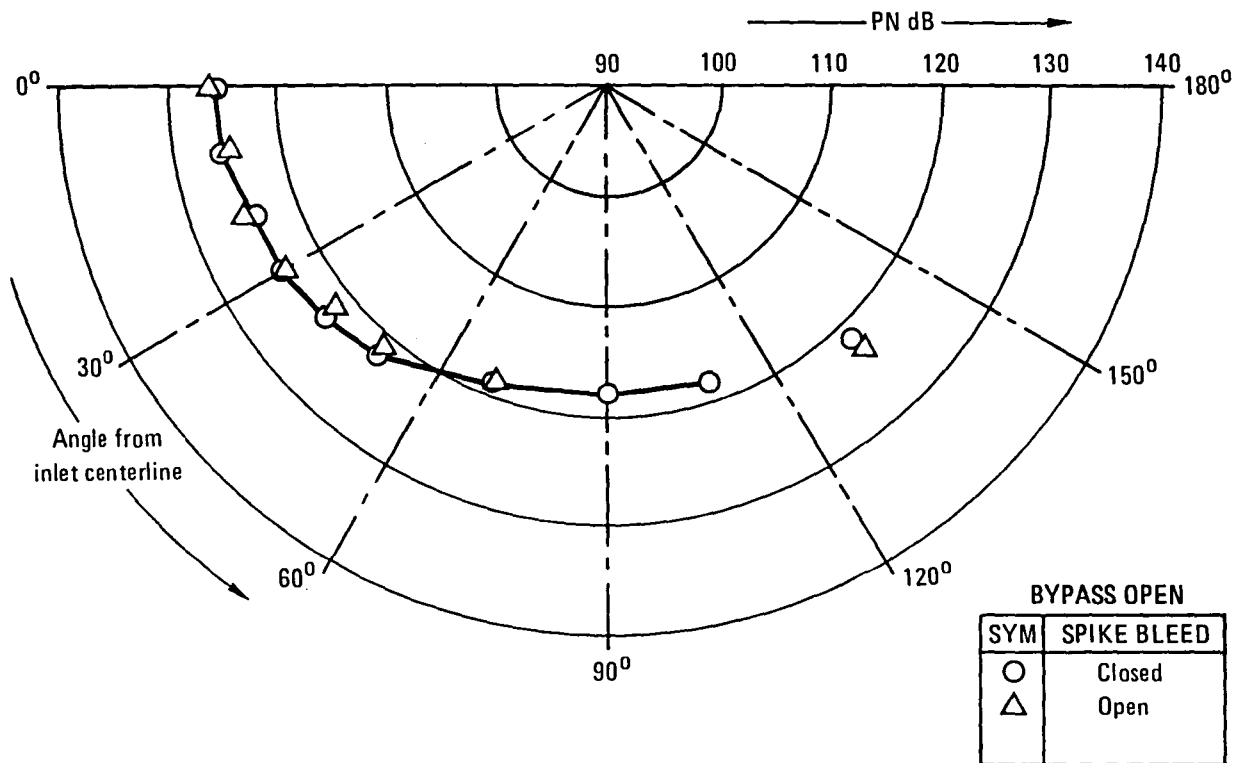


Figure 47. Effect of spike bleed opening on far-field perceived noise level for YF-12 inlet at 6000 rpm, spike forward, bypass open.

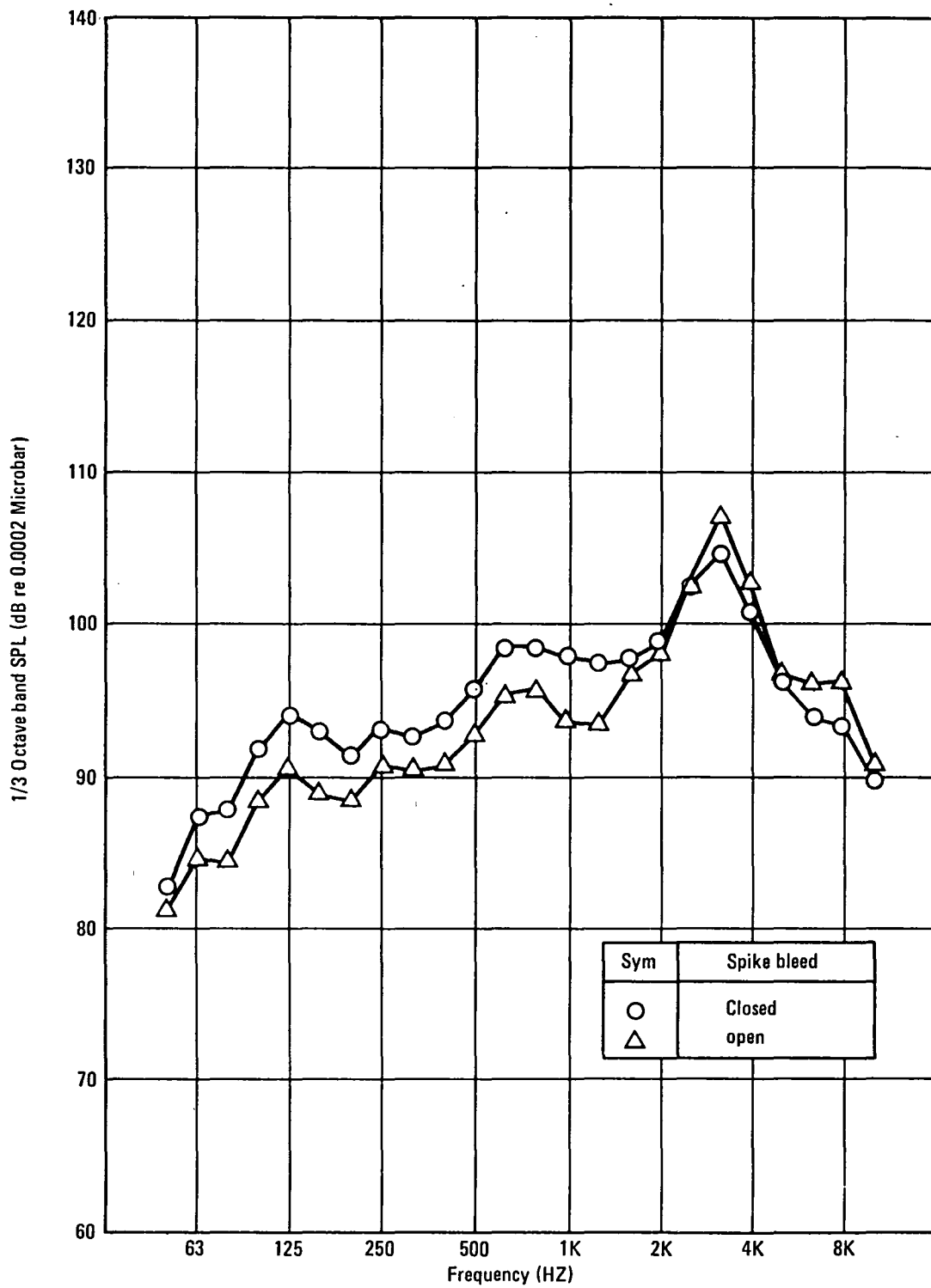


Figure 48. Effect of spike bleed opening on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, spike forward, bypass open.

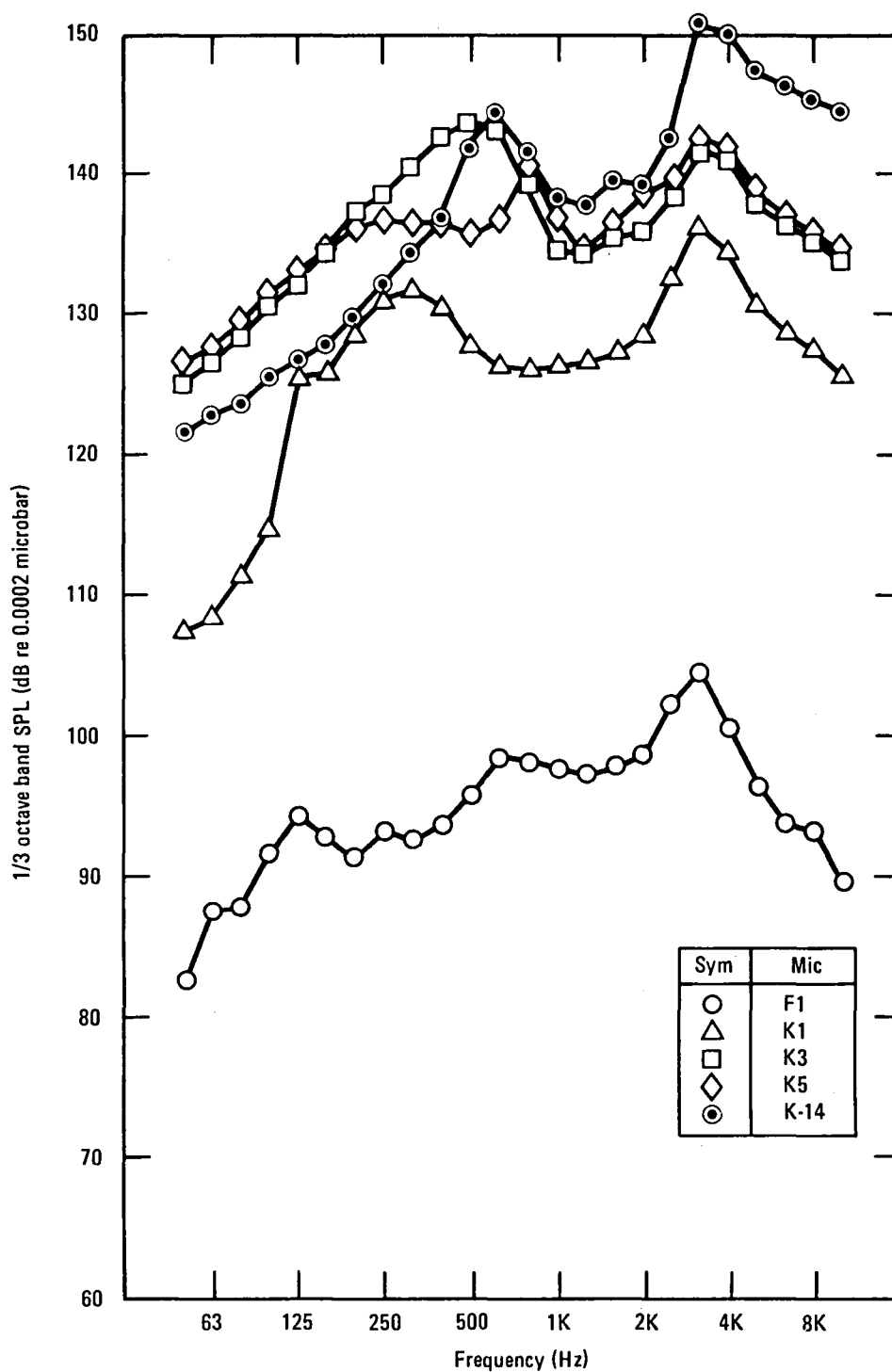


Figure 49. YF-12 inlet spectra at 6000 rpm, spike forward, bypass open, and spike bleed closed.

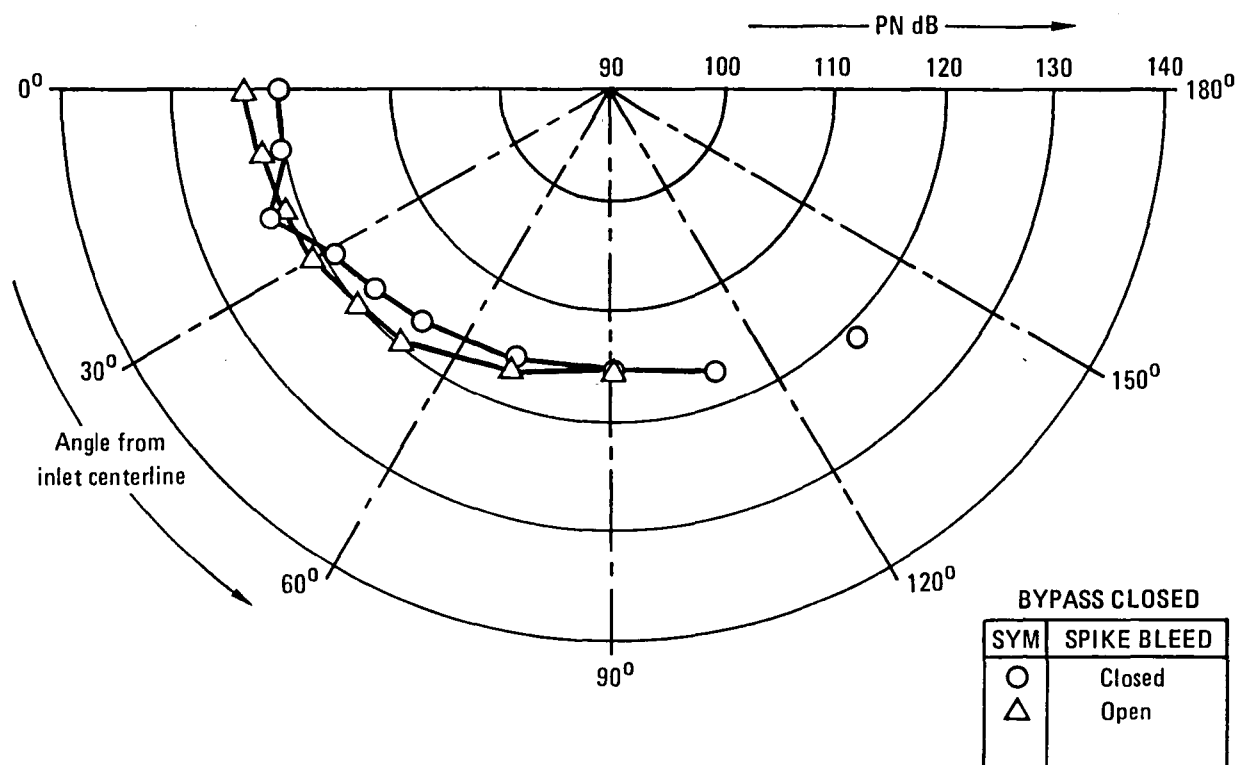


Figure 50. Effect of spike bleed opening on far-field perceived noise level for YF-12 inlet at 6000 rpm, spike forward, bypass closed.

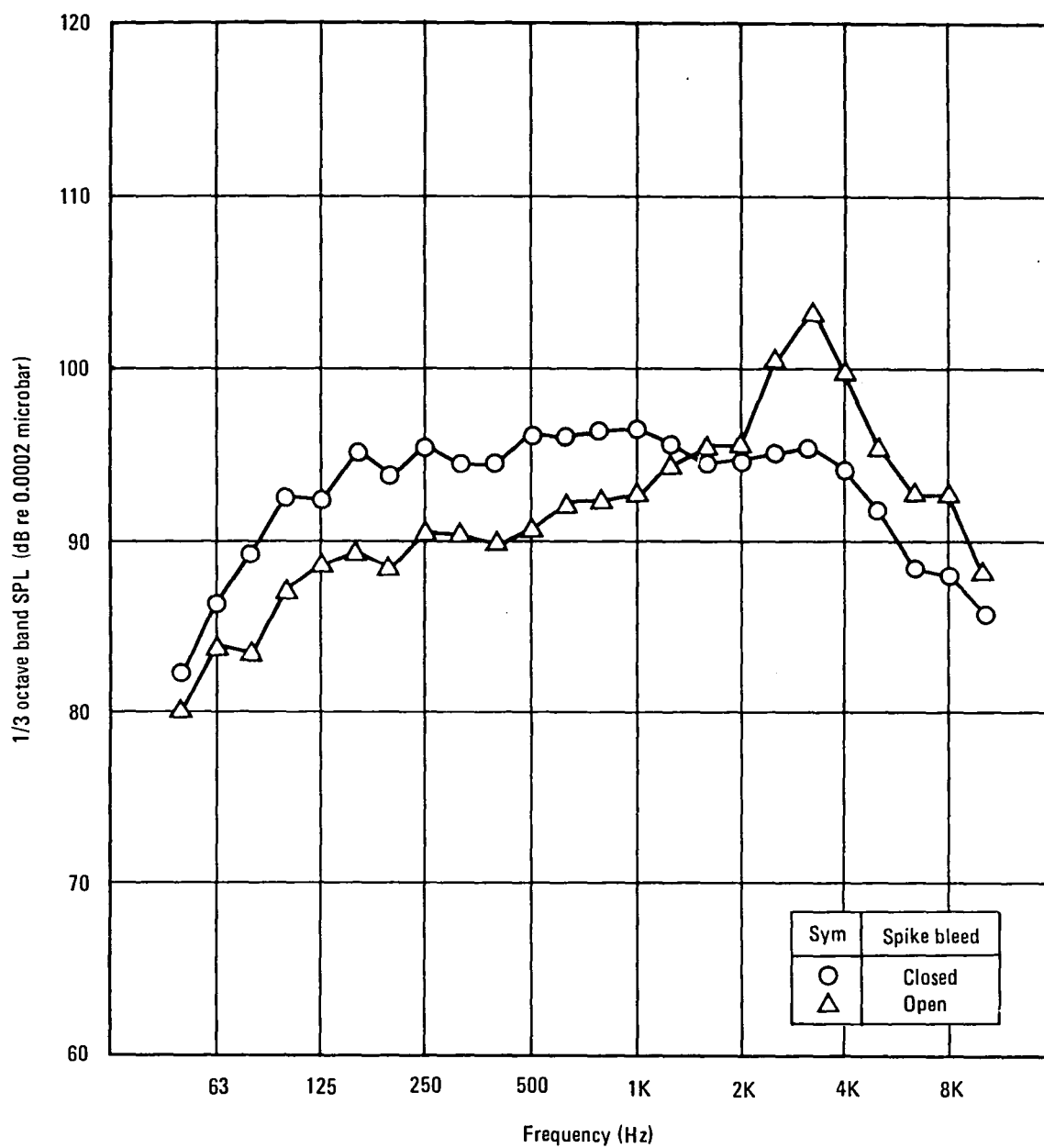


Figure 51. Effect of spike bleed opening on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, spike forward, bypass closed.

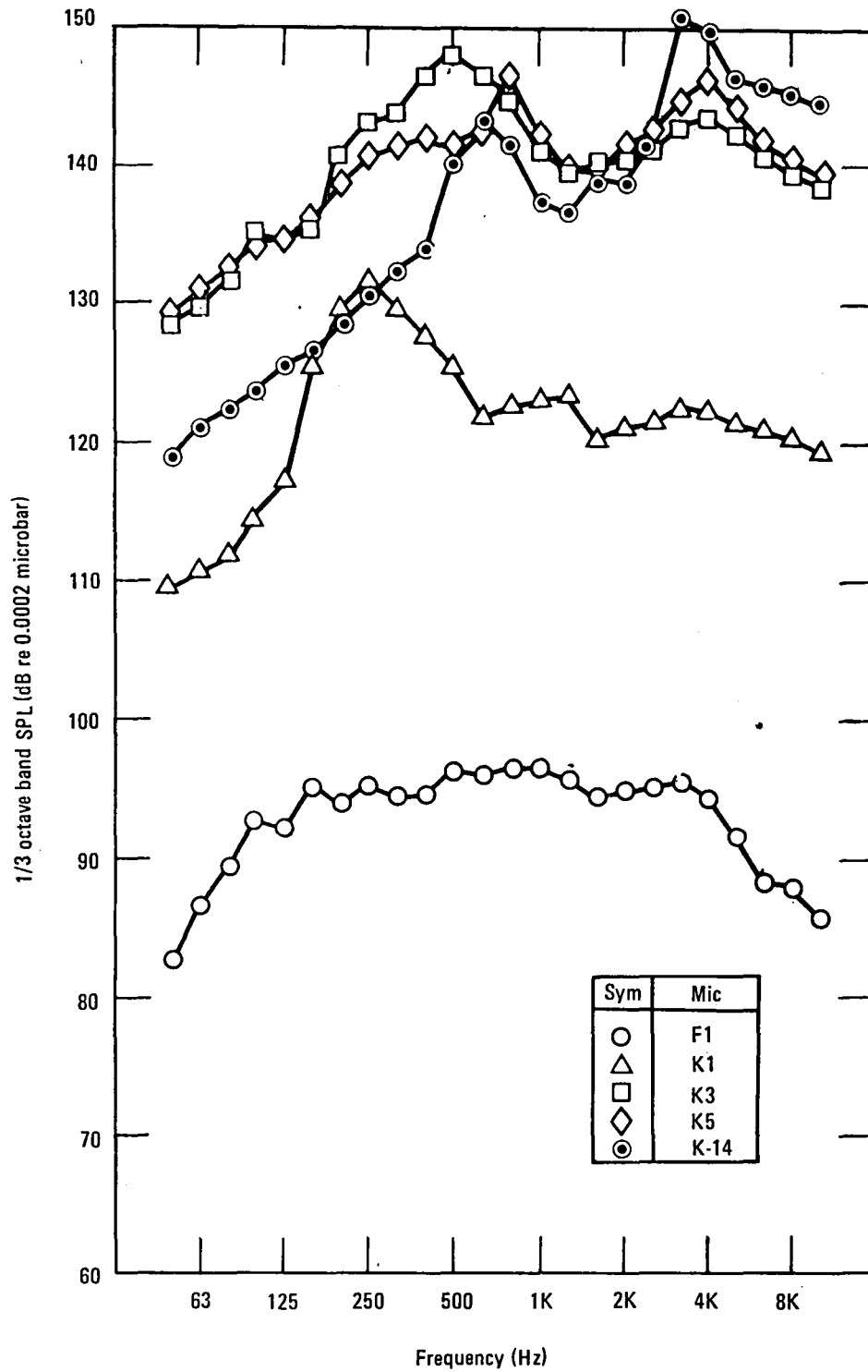


Figure 52. YF-12 inlet spectra at 6000 rpm, spike forward, bypass closed, spike bleed closed.

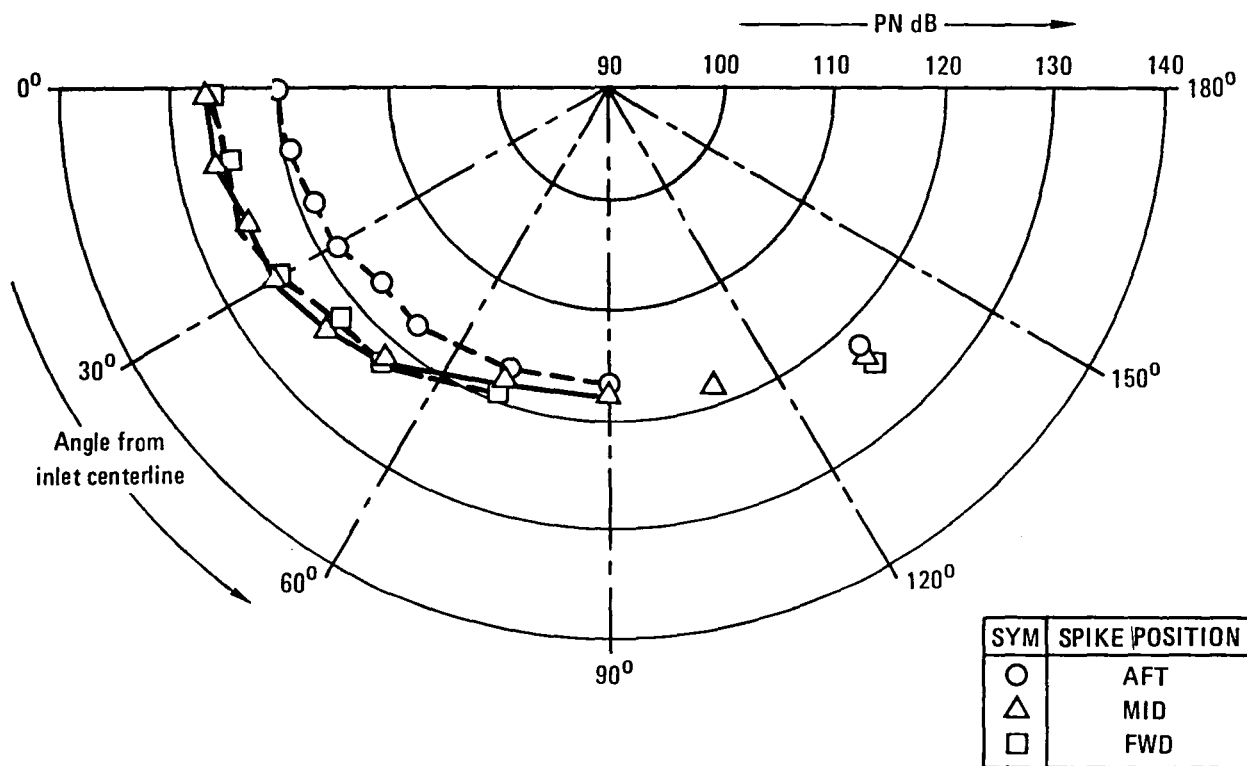


Figure 53. Effect of spike position on far-field perceived noise level for YF-12 inlet at 6000 rpm, bypass open, spike bleed open.

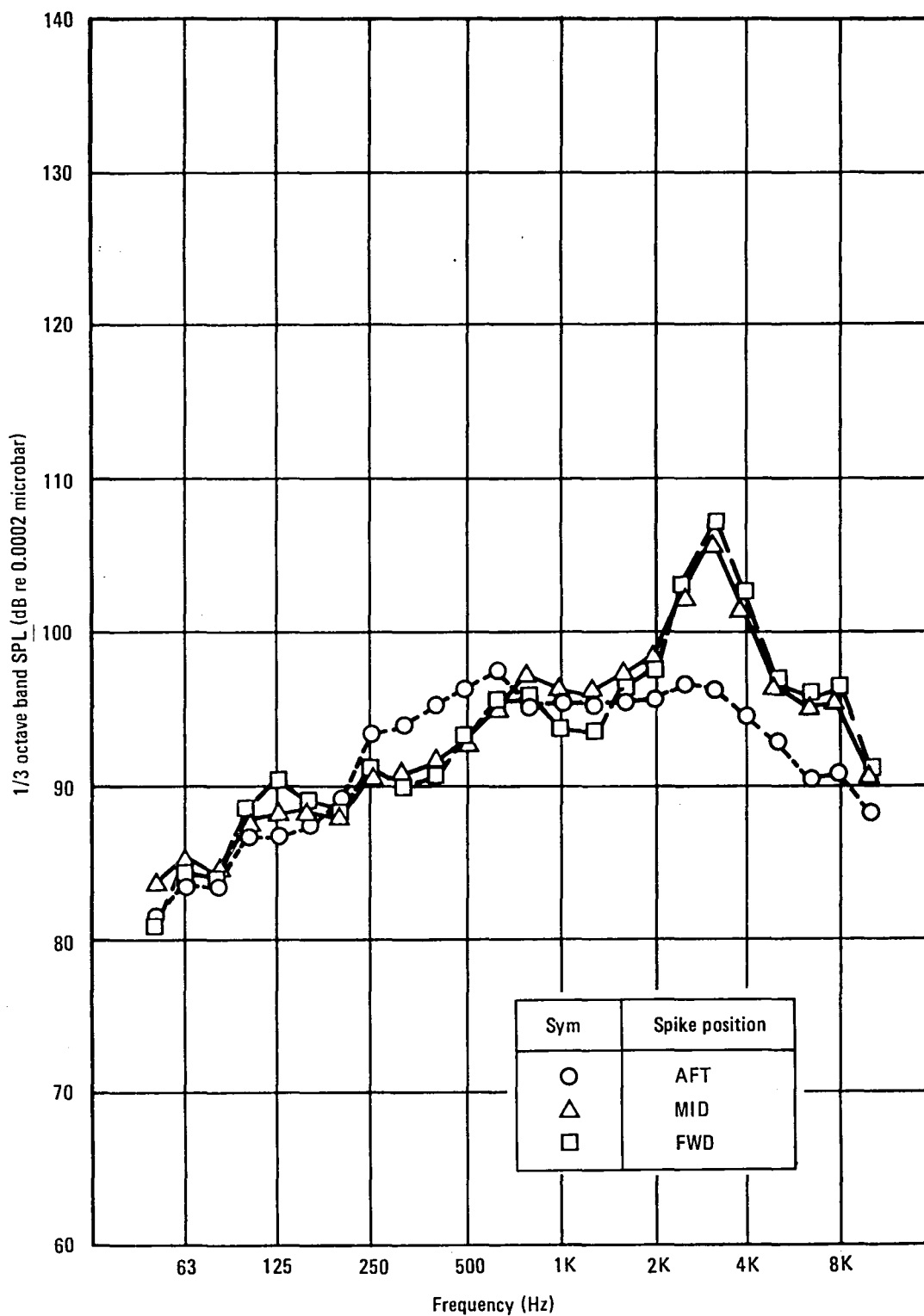


Figure 54. Effect of spike position on far-field spectra for YF-12 inlet at zero degrees: 6000 rpm, bypass open, spike bleed open.

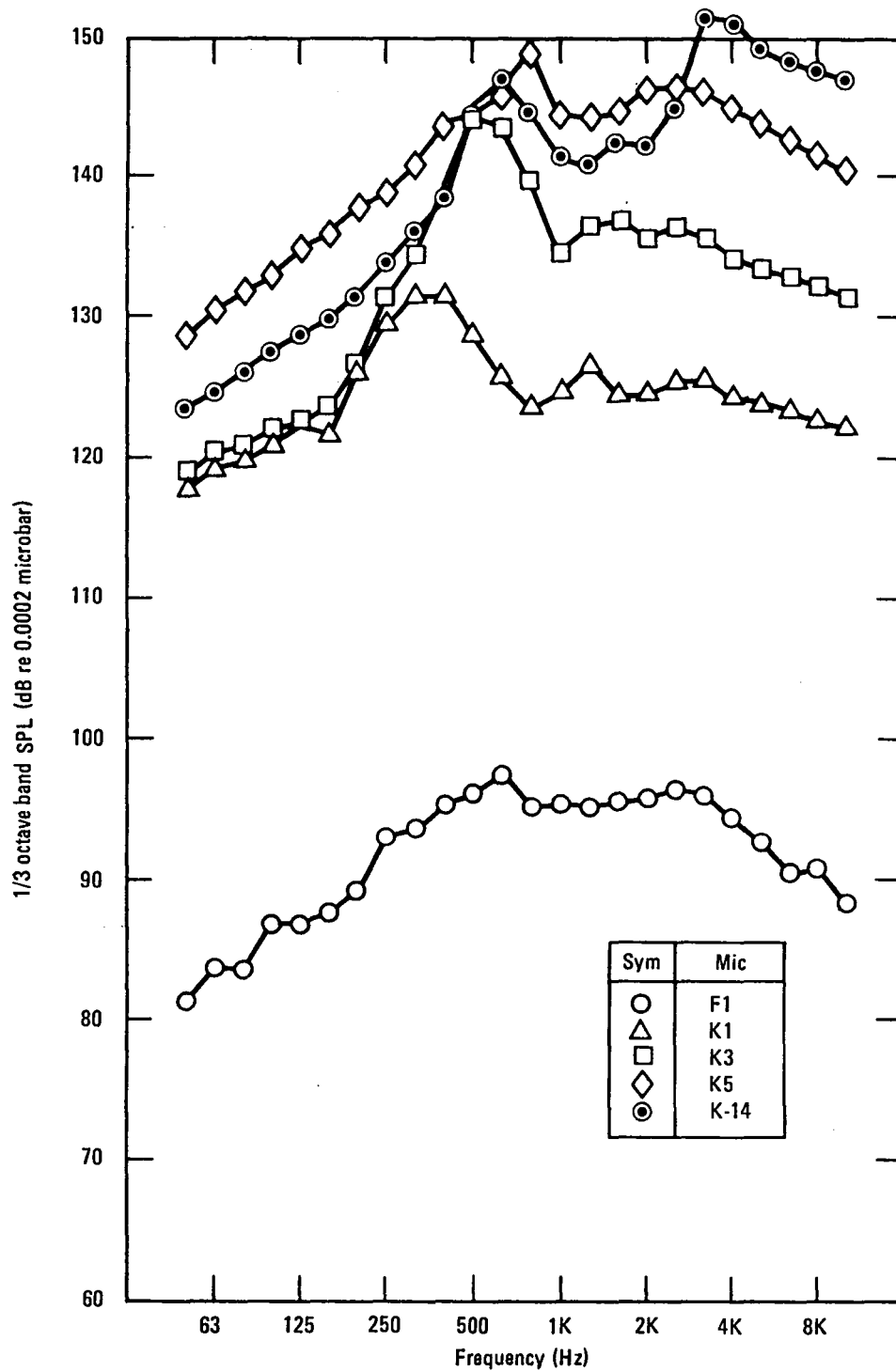


Figure 55. YF-12 inlet spectra at 6000 rpm, spike aft, bypass open, spike bleed open.

CONCLUSIONS

The far-field noise level for the YF-12 inlet was significantly less than for a bellmouth inlet at engine speeds above about 5500 rpm. With spike forward, bypass open, and spike bleed open, differences of up to 5 PNdB were measured at zero degrees and approximately 25 m. At these conditions, the YF-12 inlet was not near choking at any of the engine speeds tested. The spectral peak near the blade-passing frequency disappeared in the region of the spike support struts at engine speeds between 6000 and 6600 rpm, however. Also multiple pure tones were significantly reduced in the region of the spike support struts.

Other YF-12 inlet configurations produced even lower noise levels. For spike forward, bypass closed, and spike bleed closed, differences of up to 11 PNdB were measured at zero degrees and 25 m.

Far-field noise level was significantly lower with the bypass doors closed than open. With the spike forward and the spike bleed open, differences of 3 to 4 PNdB were measured at engine speeds above 6000 rpm. With the spike bleed closed, the differences were 6 to 7 PNdB.

Closing the spike bleed perforations reduced far-field noise by about one PNdB when the bypass was open. When the bypass was closed, however, closing the spike bleed produced a reduction of about 4 PNdB.

The lower noise levels that occurred with the spike bleed closed may have been related to the higher local Mach numbers near the cowl lip. If so, then spike bleed closure would have a smaller effect when the aircraft had forward speed.

Spike translation from forward to midway position produced only small changes in far-field noise with bypass open and spike bleed open. For the spike aft position there was a 4 to 6 PNdB reduction relative to spike forward, however. This reduction may have been related to the strong local flow acceleration near the bypass.

REFERENCES

1. Putnam, T. W.; and Smith, R. H.: XB-70 Compressor Noise Reduction and Propulsion System Performance for Choked Inlet Flow. NASA TN-D-5692, March 1970.
2. Bangert, L. H.; Burcham, F. W., Jr.; and Mackall, K. G.: YF-12 Inlet Suppression of Compressor Noise: First Results. AIAA Paper 80-0099, January 1980.
3. Tyler, J. M.; and Sofrin, T. G.: Axial Compressor Noise Studies. SAE Transactions, Vol. 70, 1962, pp. 309-332.

APPENDIX A
TABULATIONS OF AERODYNAMIC DATA

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APPENDIX A

TABULATIONS OF AERODYNAMIC DATA

This appendix contains tabulations of all of the YF-12 inlet aerodynamic data that was reduced. Table A-1 shows the runs that were reduced.

The tabulated pressure data were normalized by the ambient pressure.

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TABLE A-1. RUN NUMBERS FOR REDUCED YF-12 AERODYNAMIC DATA

ENGINE SPEED (RPM)	SPIKE FORWARD		SPIKE MIDWAY		SPIKE AFT	
	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED
IDLE	35, 145, 187	7, 93	55	70	124	63
4000	36	8, 94				64
4200	37, 146, 188	9, 95, 157	115	71	125, 173, 208	65, 181
4300					126	
4400	38	10, 96			127	66, 182
4500					128	
4600	39, 147, 189	11, 97	116, 200	72	129	183
4700					130	
4800	40	12, 98			131	184
4900					132	
5000	41, 87, 142, 148, 190	13, 99, 158	56, 166, 201	73	133, 174	69, 185
5200	42	15, 100		74		
5400	43, 149, 191	14, 101			134	
5500	143	16, 102		76		
5600	44, 150, 192	17, 103, 159	57, 167, 202	77	175, 211	
5700	144	18, 104				
5800	45, 151, 193	19, 105	118	79	135	
5900	46	20, 106		80		
6000	47, 88, 152, 194	21, 107, 160	58, 168, 203	81	136, 176	
6100	48	22, 108	119	82		
6200	49, 89, 153	23, 109, 161	59, 169, 204	83	137, 177	
6300	50	24, 110	120	84		
6400	51, 90, 154, 196	25, 111, 162	60, 170	85	138, 178	
6500	52	26, 112	122			
6600	53, 91, 155, 197	27, 113, 163	206		139	

Notes: 1. Runs 145-216, spike bleed taped
2. Runs 187-216, bypass louvers removed

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	7	FLIGHT DATE 09/12/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.0430
		FLIGHT NO. 0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9160 ATMOS	K-CIRCUMF.	.0775
START	4: 8: 2.000	INTERVAL 1.000	ENG. FACE RECOV	.9711	ENGINE M/M	.4869	K-RADIAL	.0515
STOP	4: 8:31.999	ENG CUR RPM 3837.	ENG. FACE MACH NO	.2061	CUWL M/M	.3397		
			CUWL LIP RECOV	.9717	ADDITIVE M/M	.1471	K-DELTA	-.0026
			MACH AT CUWL LIP	.2012			K-A	.0541

SPIKE R1		CUWL R3		STAT XCW/MC= 5.4830	
STAT XCW/MC= .0728	STAT XCW/MC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9675	S14 .9218	A36 .9691	A198 .9715		
R1P1 1.0020	R3P1 .9199	M36 .9724	B198 .9723		
R1P2 1.0024	R3P2 .9197	C36 .9731	C198 .9792		
R1P3 1.0024	R3P3 .9193	D36 .9725	D198 .9695		
R1P4 1.0025	R3P4 .9195	E36 .9711	E198 .9655		
R1P5 1.0024	R3P5 .9193	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0024	R3P6 .9197	A90 .9705	A252 .9683		
R1P7 1.0022	R3P7 .9862	H90 .9735	H252 1.0023		
R1P8 1.0021	R3P8 .9500	C90 .9724	C252 .9688		
R1P9 1.0016	R3P9 .9865	D90 .9704	D252 .9680		
	R3P10 1.0020	E90 .9676	E252 .9646		
	R3P11 1.0029	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9987	A144 .9711	A324 .9704		
	R3P13 1.0034	B144 .9731	B324 .9711		
	R3P14 1.0034	D144 .9713	D324 .9710		
	R3P15 1.0033	C144 .9654	C324 .9694		
	R3P16 1.0035	E144 .9605	E324 .9665		

SPIKE R2		CUWL R4		STATIC PRESSURES			
STAT XCW/MC= 1.4678	STAT XCW/MC= 1.5360			SPIKE	P/PO	IAP	CUWL
S9 .9452	S20 .9002	TAP	XCW/MC	P/PO	IAP	XCW/MC	P/PO
R2P1 .9528	R4P1 .9779	S1	.0762	.9925	S14	.0340	.9218
R2P2 .9587	R4P2 .9850	S2	.0728	.9675	S15	.1860	.9186
R2P3 .9716	R4P3 .9806	S11	.0728	.9665	S16	.4150	.9450
R2P4 .9846	R4P4 .9873	S12	.0728	.9670	S17	.8470	.9413
R2P5 .9876	R4P5 .9880	S13	.0728	.9679	S18	1.1740	.9461
	R4P6 .9872	S3	.1408	.9519	S19	1.4590	.9456
	R4P7 .9877	S4	.4068	.9263	S20	1.5400	.9062
	R4P8 .9873	S5	.6428	.9300	S21	1.8270	.9405
	R4P9 .9866	S6	.8898	.9305	S22	2.7840	.9389
	R4P10 .9864	S7	1.0178	.9342	S23	3.2980	.9437
	R4P11 .9862	S8	1.1448	.9394	S26	5.2890	.9410
	R4P12 .9856	S9	1.5128	.9452			
		S10	1.8488	.9423			
		S27	5.3000	.9439			
		S28	.6428	.9826			

SPIKE R6		CUWL R5	
STAT XCW/MC= 3.5040	STAT XCW/MC= 3.3276		
S23 .9437	S23 .9437		
R6P1 .9616	R5P1 .9573		
R6P2 .9650	R5P2 .9502		
R6P3 .9661	R5P3 .9591		
R6P4 .9676	R5P4 .9592		
R6P5 .9683	R5P5 .9608		
R6P8 .9708	R5P6 .9627		
R6P9 .9711	R5P7 .9651		
R6P10 .9722	R5P8 .9710		
R6P11 .9729	R5P9 .9734		
	R5P10 .9753		
	R5P11 .9746		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	8	FLIGHT DATE 09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.0482
		FLIGHT NO. 0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9160 ATMOS	K-CIRCUMF.	.6500
START	4:11:48.000	INTERVAL 1.000	ENG. FALC RECOV	.9673	ENGINE M/M*	.4944	K-RADIAL	.0564
STOP	4:12:18.000	ENG LUM KPM 3498.	ENG. FALC MACH NO	.2166	COWL M/M*	.3580		
			COWL LIP RECOV	.9684	ADDITIVE M/M*	.1364	K-DELTA	-.0032
			MACH AT COWL LIP	.2134			K-A	.0601

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830	
STAT XCW/RC= .0728	STAT XCW/RC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9636	S14 .9127	A36 .9646	A198 .9684		
R1P1 1.0026	R3P1 .9104	B36 .9683	B198 .9700		
R1P2 1.0025	R3P2 .9103	C36 .9692	C198 .9765		
R1P3 1.0026	R3P3 .9102	D36 .9696	D198 .9663		
R1P4 1.0028	R3P4 .9103	E36 .9676	E198 .9605		
R1P5 1.0026	R3P5 .9100	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0025	R3P6 .9102	A90 .9667	A252 .9635		
R1P7 1.0027	R3P7 .9642	H90 .9692	H252 1.0027		
R1P8 1.0024	R3P8 .9655	C90 .9698	C252 .9647		
R1P9 1.0012	R3P9 .9902	D90 .9664	D252 .9637		
	R3P10 1.0028	E90 .9638	E252 .9543		
	R3P11 1.0034	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9986	A144 .9662	A324 .9663		
	R3P13 1.0036	H144 .9676	H324 .9672		
	R3P14 1.0035	D144 .9663	D324 .9677		
	R3P15 1.0035	C144 .9613	C324 .9654		
	R3P16 1.0037	E144 .9501	E324 .9629		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC= 1.4678	STAT XCW/RC= 1.5380			SPIKE	COWL		
S9 .9384	S20 .8947	TAP	XCW/RC	P/PO	IAP	XCW/RC	P/PO
R2P1 .9466	R4P1 .9766	S1	.0762	.9920	S14	.0340	.9127
R2P2 .9530	R4P2 .9440	S2	.0728	.9636	S15	.1860	.9096
R2P3 .9659	R4P3 .9655	S11	.0728	.9626	S16	.4150	.9374
R2P4 .9829	R4P4 .9669	S12	.0728	.9636	S17	.8470	.9342
R2P5 .9873	R4P5 .9866	S13	.0728	.9642	S18	1.1740	.9393
	R4P6 .9867	S3	.1408	.9459	S19	1.4590	.9388
	R4P7 .9672	S4	.4068	.9175	S20	1.5400	.8947
	R4P8 .9664	S5	.6428	.9216	S21	1.8270	.9331
	R4P9 .9661	S6	.8848	.9224	S22	2.7840	.9311
	R4P10 .9652	S7	1.0178	.9259	S23	3.2980	.9368
	R4P11 .9641	S8	1.1498	.9316	S26	5.2890	.9343
	R4P12 .9836	S9	1.5128	.9384			
		S10	1.8488	.9354			
		S27	5.5000	.9373			
		S28	.6428	.9804			

SPIKE R6		COWL K5	
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270		
S23 .9368	S23 .9368		
R6P1 .9561	R5P1 .9525		
R6P2 .9602	R5P2 .9531		
R6P3 .9621	R5P3 .9537		
R6P4 .9633	R5P4 .9544		
R6P5 .9650	R5P5 .9557		
R6P8 .9667	R5P6 .9584		
R6P9 .9686	R5P7 .9621		
R6P10 .9695	R5P8 .9669		
R6P11 .9669	R5P9 .9707		
	R5P10 .9733		
	R5P11 .9706		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	7	FLIGHT DATE 09/12/79	SPIKE POS. UX/MC	.8582	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0561
		FLIGHT NO.	0				K=CIRCUMF.	.6159
START	4:14:36.000	INTERVAL	1.000	ENG. FACE RECOV	.9626	ENGINE M/M*	K=RADIAL	.0601
STOP	4:14:49.617	ENG CUR RPM	4226.	ENG. FACE MACH NO	.2353	COWL M/M*		
				COWL LIP RECOV	.9634	ADDITIVE M/M*	K=DELTA	.0016
				MACH AT COWL LIP	.2299		K=A	.0618

SPIKE R1		COWL R3		STAT XLM/MC= 5.4830	
STAT XCM/RC=	.0728	STAT XLM/MC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9577	S14	.8995	A36	.9601
R1P1	1.0028	R3P1	.8970	H36	.9629
R1P2	1.0027	R3P2	.8970	C36	.9655
R1P3	1.0033	R3P3	.8968	D36	.9646
R1P4	1.0029	R3P4	.8966	E36	.9655
R1P5	1.0027	R3P5	.8964	90 DEG MAKE	252 DEG MAKE
R1P6	1.0029	R3P6	.8975	A90	.9631
R1P7	1.0033	R3P7	.9815	H90	.9668
R1P8	1.0023	R3P8	.9403	C90	.9656
R1P9	1.0012	R3P9	.9903	D90	.9627
		R3P10	1.0030	E90	.9586
		R3P11	1.0033	144 DEG MAKE	324 DEG MAKE
		R3P12	.9979	A144	.9614
		R3P13	1.0034	H144	.9611
		R3P14	1.0035	D144	.9625
		R3P15	1.0039	C144	.9559
		R3P16	1.0043	E144	.9493

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XLM/MC=	1.5380	SPIKE		COWL	
S9	.9289	S20	.8770	XCM/MC	P/PU	IAP	XCM/MC
R2P1	.9389	R4P1	.9706	TAP			P/PU
R2P2	.9450	R4P2	.9747	S1	.0702	.9904	S14
R2P3	.9635	R4P3	.9824	S2	.0728	.9917	S15
R2P4	.9819	R4P4	.9831	S11	.0728	.9511	S16
R2P5	.9856	R4P5	.9842	S12	.0728	.9513	S17
		R4P6	.9840	S13	.0728	.9589	S18
		R4P7	.9842	S3	.1408	.9384	S19
		R4P8	.9836	S4	.4068	.9053	S20
		R4P9	.9837	S5	.6428	.9092	S21
		R4P10	.9820	S6	.6848	.9114	S22
		R4P11	.9821	S7	1.0178	.9149	S23
		R4P12	.9812	S8	1.1498	.9215	S26
				S9	1.5128	.9289	
				S10	1.6468	.9254	
				S27	5.3000	.9275	
				S28	.6428	.9772	

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XLM/MC=	3.3270
S23	.9268	S23	.9268
R6P1	.9487	R5P1	.9444
R6P2	.9538	R5P2	.9446
R6P3	.9547	R5P3	.9460
R6P4	.9584	R5P4	.9477
R6P5	.9592	R5P5	.9482
R6P8	.9625	R5P6	.9518
R6P9	.9626	R5P7	.9559
R6P10	.9641	R5P8	.9621
R6P11	.9652	R5P9	.9668
		R5P10	.9690
		R5P11	.9660

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	10	FLIGHT DATE 09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0641
		FLIGHT NO.	0		916R ATMOS		K-CIRCUMF.	.5904
START	4:17:1.002	INTERVAL	1.000	ENG. FALC RECOV	.9559	ENGINE M/M*	K-RADIAL	.0665
STOP	4:17:30.999	ENG LUN RPM	4390.	ENG. FALC MACH NO	.2530	COWL M/M*		
				COWL LIP RECOV	.9573	ADDITIVE M/M*	K-DELTA	.0050
				MACH AT COWL LIP	.2457		K-A	.0715

SPIKE R1		COWL K3		STAT XCN/KC= 5.4830	
STAT XCN/KC=	.0728	STAT XCN/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9508	S14	.8851	A36	.9531 A198
R1P1	1.0015	R3P1	.8812	H36	.9573 H198
R1P2	1.0018	R3P2	.8811	C36	.9546 C198
R1P3	1.0020	R3P3	.8808	D36	.9544 D198
R1P4	1.0019	R3P4	.8810	E36	.9571 E198
R1P5	1.0021	R3P5	.8809	90 DEG HAKE	252 DEG HAKE
R1P6	1.0018	R3P6	.8820	A90	.9552 A252
R1P7	1.0019	R3P7	.9760	H90	.9546 H252
R1P8	1.0018	R3P8	.9345	C90	.9564 C252
R1P9	1.0004	R3P9	.9882	D90	.9554 D252
		R3P10	1.0024	E90	.9514 E252
		R3P11	1.0026	144 DEG HAKE	324 DEG HAKE
		R3P12	.9466	A144	.9566 A324
		R3P13	1.0033	H144	.9584 H324
		R3P14	1.0034	D144	.9556 D324
		R3P15	1.0032	C144	.9480 C324
		R3P16	1.0034	E144	.9404 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCN/KC=	1.4678	STAT XCN/KC=	1.5380	SPIKE	XCN/KC	P/P0	IAP
S9	.9170	S20	.8605	S1	.9162	.9876	S14
R2P1	.9271	R4P1	.9672	S2	.9728	.9508	S15
R2P2	.9359	R4P2	.9775	S11	.9728	.9501	S16
R2P3	.9564	R4P3	.9801	S12	.9728	.9523	S17
R2P4	.9772	R4P4	.9815	S13	.9728	.9525	S18
R2P5	.9813	R4P5	.9816	S3	.1408	.9286	S19
		R4P6	.9810	S4	.4068	.8918	S20
		R4P7	.9815	S5	.6428	.8958	S21
		R4P8	.9812	S6	.8848	.8978	S22
		R4P9	.9808	S7	1.0178	.9015	S23
		R4P10	.9802	S8	1.1448	.9081	S26
		R4P11	.9786	S9	1.5128	.9170	
		R4P12	.9781	S10	1.8408	.9136	
				S27	5.3000	.9157	
				S28	.0428	.9734	

SPIKE R6		COWL K5	
STAT XCN/KC=	3.5040	STAT XCN/KC=	3.3270
S23	.9154	S23	.9154
R6P1	.9416	R5P1	.9358
R6P2	.9470	R5P2	.9365
R6P3	.9481	R5P3	.9377
R6P4	.9512	R5P4	.9392
R6P5	.9521	R5P5	.9412
R6P8	.9552	R5P6	.9432
R6P9	.9570	R5P7	.9481
R6P10	.9580	R5P8	.9534
R6P11	.9602	R5P9	.9604
		R5P10	.9628
		R5P11	.9608

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	11	FLIGHT DATE 09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.0748
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9167 ATMUS	K=CINCUMP.	.5472
START	4:19:20.000	INTERVAL 1.000	ENG. FALC REC'D	.9492	ENGINE M/M	.5281	K-RADIAL	.0695
STOP	4:19:50.000	ENG LUM RPM 4601.	ENG. FALC MACH NO	.2729	COWL M/M	.4282	K-DELTA	.0006
			COWL LIP REC'D	.9507	ADDITIVE M/M	.0999	K-A	.0701
			MACH AT COWL LIP	.2038				

SPIKE R1		COWL K3		STAT XCW/RC = 5.4830	
STAT XCW/RC = .0720	STAT XCW/RC = .0700	30 DEG MAKE	198 DEG MAKE		
S2 .9440	S14 .8677	A36 .9454	A198 .9507		
R1P1 1.0014	R3P1 .8639	M36 .9512	B198 .9520		
R1P2 1.0020	R3P2 .8637	C36 .9541	C198 .9613		
R1P3 1.0019	R3P3 .8637	D36 .9537	D198 .9480		
R1P4 1.0022	R3P4 .8636	E36 .9508	E198 .9380		
R1P5 1.0020	R3P5 .8639	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0021	R3P6 .8648	A90 .9495	A252 .9431		
R1P7 1.0022	R3P7 .9741	B90 .9528	B252 1.0020		
R1P8 1.0020	R3P8 .9242	C90 .9525	C252 .9449		
R1P9 1.0003	R3P9 .9854	D90 .9484	D252 .9424		
	R3P10 1.0020	E90 .9442	E252 .9377		
	R3P11 1.0029	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9961	A144 .9494	A324 .9475		
	R3P13 1.0032	B144 .9505	B324 .9503		
	R3P14 1.0032	C144 .9476	C324 .9488		
	R3P15 1.0032	D144 .9343	D324 .9462		
	R3P16 1.0033	E144 .9304	E324 .9424		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC = 1.4078	STAT XCW/RC = 1.5380	TAP	SPIKE	COWL			
S9 .9042	S20 .8373		XCW/RC	P/PD	IAP	XCW/RC	P/PD
R2P1 .9159	R4P1 .9614	S1	.0702	.9461	S14	.0340	.8677
R2P2 .9266	R4P2 .9741	S2	.0728	.9440	S15	.1860	.8636
R2P3 .9483	R4P3 .9777	S11	.0728	.9425	S16	.4150	.9065
R2P4 .9735	R4P4 .9743	S12	.0728	.9434	S17	.8470	.8992
R2P5 .9784	R4P5 .9745	S13	.0728	.9453	S18	1.1740	.9063
	R4P6 .9742	S3	.1408	.9178	S19	1.4590	.9061
	R4P7 .9747	S4	.8068	.8756	S20	1.5400	.8373
	R4P8 .9745	S5	.8428	.8802	S21	1.8270	.8969
	R4P9 .9742	S6	.8848	.8422	S22	2.7840	.8940
	R4P10 .9787	S7	1.4178	.8862	S23	3.2980	.9023
	R4P11 .9773	S8	1.1448	.8940	S26	5.2890	.8986
	R4P12 .9746	S9	1.5128	.9042			
		S10	1.8468	.8994			
		S17	5.5000	.9030			
		S28	.8428	.9496			

SPIKE R6		COWL K5	
STAT XCW/RC = 3.5040	STAT XCW/RC = 3.3270		
S23 .9023	S23 .9023		
R6P1 .9315	K5P1 .9254		
R6P2 .9375	K5P2 .9270		
R6P3 .9404	K5P3 .9282		
R6P4 .9424	K5P4 .9295		
R6P5 .9434	K5P5 .9310		
R6P8 .9467	K5P6 .9352		
R6P9 .9495	K5P7 .9404		
R6P10 .9511	K5P8 .9440		
R6P11 .9528	K5P9 .9556		
	K5P10 .9577		
	K5P11 .9586		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	12	FLIGHT DATE 09/12/79	SPIKE POS. DX/RC	.85M2	AMBIENT TEMP	299.4 DEG K	MAX=MIN DIST	.0850
START	4:22:15.000	FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9107 ATMUS	K=CIRCUMF.	.5227
STOP	4:22:45.000	INTERVAL 1.000	ENG. FALC RECOV	.9423	ENGINE M/M*	.5414	K=RADIAL	.0787
		ENG CON RPM 4826.	ENG. FALC MACH NO	.2943	COWL M/M*	.4507		
			COWL LIP RECOV	.9438	ADDITIVE M/M*	.0907	K=DELTA	.0121
			MACH AT COWL LIP	.2812			K=A	.0908

SPIKE R1		COWL R3		STAT XCW/MC= 5.4830	
STAT XCW/RC= .0728	STAT XCW/RC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9361	S14 .8506	A36 .9364	A198 .9433		
R1P1 1.0013	R3P1 .8467	H36 .9430	B198 .9454		
R1P2 1.0019	R3P2 .8463	C36 .9458	C198 .9551		
R1P3 1.0019	R3P3 .8461	D36 .9463	D198 .9425		
R1P4 1.0019	R3P4 .8461	E36 .9426	E198 .9298		
R1P5 1.0018	R3P5 .8459	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0019	R3P6 .8464	A90 .9418	A252 .9358		
R1P7 1.0019	R3P7 .9707	B90 .9467	B252 1.0017		
R1P8 1.0016	R3P8 .9135	C90 .9466	C252 .9384		
R1P9 .9999	R3P9 .9861	D90 .9424	D252 .9357		
	R3P10 1.0023	E90 .9370	E252 .9304		
	R3P11 1.0026	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9960	A144 .9424	A324 .9344		
	R3P13 1.0032	B144 .9464	B324 .9440		
	R3P14 1.0032	D144 .9420	D324 .9419		
	R3P15 1.0033	C144 .9318	C324 .9385		
	R3P16 1.0034	E144 .9216	E324 .9332		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC= 1.4678	STAT XCW/RC= 1.5380			SPIKE		COWL	
S9 .8898	S20 .8138	TAP	XCW/RL	P/PO	IAP	XCW/RL	P/PO
H2P1 .9018	H4P1 .9558	S1 .0762	.9845	S14 .0340	.8506		
H2P2 .9138	H4P2 .9706	S2 .0728	.9361	S15 .1860	.8453		
R2P3 .9394	R4P3 .9734	S11 .0728	.9351	S16 .4150	.8933		
R2P4 .9699	R4P4 .9757	S12 .0728	.9359	S17 .8470	.8846		
R2P5 .9768	R4P5 .9769	S13 .0728	.9377	S18 1.1740	.8923		
	R4P6 .9771	S3 .1406	.9070	S19 1.4590	.8920		
	R4P7 .9772	S4 .4068	.8576	S20 1.5400	.8138		
	R4P8 .9771	S5 .6420	.8624	S21 1.8270	.8821		
	R4P9 .9755	S6 .8848	.8652	S22 2.7840	.8791		
	R4P10 .9745	S7 1.0178	.8646	S23 3.2980	.8887		
	R4P11 .9731	S8 1.1448	.8781	S26 5.2890	.8842		
	R4P12 .9722	S9 1.5126	.8898				
		S10 1.8488	.8857				
		S27 5.3000	.8894				
		S28 .6428	.9651				

SPIKE R6		COWL R5	
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270		
S23 .8887	S23 .8887		
H6P1 .9217	H5P1 .9148		
H6P2 .9291	H5P2 .9159		
H6P3 .9312	H5P3 .9185		
H6P4 .9323	H5P4 .9169		
H6P5 .9352	H5P5 .9220		
H6P8 .9407	H5P6 .9257		
H6P9 .9410	H5P7 .9321		
H6P10 .9440	H5P8 .9423		
H6P11 .9446	H5P9 .9482		
	H5P10 .9510		
	H5P11 .9475		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	13	FLIGHT DATE	09/12/79	SPK1 POS. DX/KC	.8582	AMBIENT TEMP	299.4 DEG K	MAX=MIN DIST	.0413
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9163 ATMOS	K=CIRCUMF.	.4871
START	4124134.000	INTERVAL	1.000	ENG. FACE RECOV	.9309	ENGINE M/M*	.5535	K=RADIAL	.0383
STOP	41251 4.000	ENG CUM RPM	5062.	ENG. FACE MACH NU	.3116	COWL M/M*	.4747	K=DELTA	.0126
				COWL LIP RECOV	.9355	ADDITIVE M/M*	.0789	K=A	.0508
				MACH AT COWL LIP	.3008				

SPIKE R1		COWL R3		STAT XCN/KC= 5.4830	
STAT XCN/KC=	.0728	STAT XCN/KC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9273	S14	.8248	A36	.9281
R1P1	1.0013	R3P1	.8261	H36	.9347
R1P2	1.0019	R3P2	.8255	C36	.9301
R1P3	1.0021	R3P3	.8254	D36	.9376
R1P4	1.0020	R3P4	.8254	E36	.9343
R1P5	1.0020	R3P5	.8250	90 DEG MAKE	252 DEG MAKE
R1P6	1.0019	R3P6	.8256	A90	.9323
R1P7	1.0020	R3P7	.9666	H90	.9374
R1P8	1.0017	R3P8	.8479	C90	.9383
R1P9	.9997	R3P9	.9443	D90	.9332
		R3P10	1.0026	E90	.9271
		R3P11	1.0030	144 DEG MAKE	324 DEG MAKE
		R3P12	.9954	A144	.9320
		R3P13	1.0033	H144	.9387
		R3P14	1.0033	D144	.9325
		R3P15	1.0032	C144	.9206
		R3P16	1.0033	E144	.9088

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCN/KC=	1.4678	STAT XCN/KC=	1.5380	SPK1	ALN/KC	P/PU	IAP
S9	.8724	S20	.7857	S1	.0162	.4824	S14
R2P1	.8858	R4P1	.9474	S2	.0120	.4273	S15
R2P2	.8975	R4P2	.9655	S11	.0120	.4266	S16
R2P3	.9289	R4P3	.9645	S12	.0120	.4271	S17
R2P4	.9665	R4P4	.9716	S13	.0120	.4242	S18
R2P5	.9733	R4P5	.9721	S3	.1408	.8945	S19
		R4P6	.9722	S4	.4068	.8377	S20
		R4P7	.9720	S5	.6428	.8432	S21
		R4P8	.9730	S6	.8846	.8458	S22
		R4P9	.9729	S7	1.0178	.8503	S23
		R4P10	.9724	S8	1.1446	.8541	S26
		R4P11	.9722	S9	1.5128	.8729	
		R4P12	.9643	S10	1.8468	.8663	
				S27	5.3000	.6728	
				S28	.6428	.9608	

SPIKE R6		COWL R5	
STAT XCN/KC=	3.5040	STAT XCN/KC=	3.3270
S23	.8721	S23	.8721
R6P1	.9100	R5P1	.9022
R6P2	.9189	R5P2	.9031
R6P3	.9212	R5P3	.9034
R6P4	.9234	R5P4	.9072
R6P5	.9254	R5P5	.9047
R6P6	.9312	R5P6	.9126
R6P9	.9318	R5P7	.9204
R6P10	.9341	R5P8	.9314
R6P11	.9356	R5P9	.9405
		R5P10	.9438
		R5P11	.9467

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	14	FLIGHT DATE	04/12/79	SPIKE POS. OX/KC	.8582	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0448
		FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9169 ATMOS	K-CIRCUMF.	.4346
START	4:28:13.001	INTERVAL	1.000	ENG. FALC RECOV	.9164	ENGINE M/M*	.5809	K-RADIAL	.0409
STOP	4:28:43.000	ENG. CUM RPM	5470.	ENG. FALC MACH NO	.3480	COWL M/M*	.5086	K-DELTA	.0209
				COWL LIP RECOV	.9221	ADDITIVE M/M*	.0723	K-A	.0618
				MACH AT COWL LIP	.3306				

SPIKE R1		COWL K3		STAT XCM/KC= 5.4830	
STAT XCM/KC=	.0728	STAT XCM/KC=	.0700	30 DEG HAKE	198 DEG HAKE
S2	.9130	S14	.7968	A36	.9112 A198 .9203
R1P1	1.0002	K3P1	.7926	H36	.9201 B198 .9236
R1P2	1.0013	K3P2	.7920	C36	.9227 C198 .9348
R1P3	1.0013	K3P3	.7909	D36	.9244 D198 .9265
R1P4	1.0014	K3P4	.7908	E36	.9208 E198 .9066
R1P5	1.0014	K3P5	.7904	90 DEG HAKE	252 DEG HAKE
R1P6	1.0014	K3P6	.7906	A90	.9172 A252 .9096
R1P7	1.0015	K3P7	.9587	H90	.9250 B252 .9114
R1P8	1.0013	K3P8	.8850	C90	.9268 C252 .9133
R1P9	.9990	K3P9	.9865	D90	.9196 D252 .9111
		K3P10	1.0024	E90	.9112 E252 .9018
		K3P11	1.0022	144 DEG HAKE	324 DEG HAKE
		K3P12	.9937	A144	.9173 A324 .9148
		K3P13	1.0027	H144	.9238 B324 .9213
		K3P14	1.0029	D144	.9204 C324 .9188
		K3P15	1.0027	C144	.9071 D324 .9156
		K3P16	1.0029	E144	.8938 E324 .9080

SPIKE K2		COWL K4		STATIC PRESSURES						
STAT XCM/KC=	1.4678	STAT XCM/KC=	1.5380	SPIKE	XCM/KC	P/PO	TAP	COWL	XCM/KC	P/PO
S9	.8443	S20	.7390	S1	.0762	.9786	S14	.0340	.7968	
K2P1	.8588	K4P1	.9395	S2	.0728	.9150	S15	.1860	.7914	
K2P2	.8739	K4P2	.9588	S11	.0728	.9123	S16	.4150	.8527	
K2P3	.9123	K4P3	.9635	S12	.0728	.9126	S17	.8470	.8397	
K2P4	.9606	K4P4	.9655	S13	.0728	.9152	S18	1.1740	.8484	
K2P5	.9680	K4P5	.9669	S3	.1408	.8725	S19	1.4590	.8493	
		K4P6	.9662	S4	.4068	.8037	S20	1.5400	.7390	
		K4P7	.9683	S5	.6028	.8089	S21	1.8270	.8343	
		K4P8	.9668	S6	.8898	.8121	S22	2.7840	.8307	
		K4P9	.9666	S7	1.0178	.8174	S23	3.2980	.8444	
		K4P10	.9663	S8	1.1448	.8271	S24	5.2690	.8384	
		K4P11	.9663	S9	1.5128	.8443				
		K4P12	.9636	S10	1.8488	.8392				

SPIKE K6		COWL K5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.8444	S23	.8444
K6P1	.8415	K5P1	.8803
K6P2	.8994	K5P2	.8827
K6P3	.9023	K5P3	.8832
K6P4	.9054	K5P4	.8856
K6P5	.9081	K5P5	.8888
K6P6	.9139	K5P6	.8933
K6P7	.9165	K5P7	.9011
K6P8	.9194	K5P8	.9167
K6P9	.9208	K5P9	.9273
		K5P10	.9330
		K5P11	.9284

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	15	FLIGHT DATE 09/12/79	SPIKE POS. DX/RG	.8582	AMBIENT TEMP	300.0 DEG K	MAX=MIN DIST	.1103
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9164 ATMUS	K=CIRCUMF.	.4580
START	4131146.002	INTERVAL 1.000	ENG. FACE RECOV	.9262	ENGINE M/M*	.5669	K=RADIAL	.0938
STOP	4132116.000	ENG CUR RPM 5255.	ENG. FACE MACH NO	.3368	COWL M/M*	.4958	K=DELTA	.0119
			COWL LIP RECOV	.9288	ADDITIVE M/M*	.0711	K=A	.1057
			MACH AT COWL LIP	.3185				

SPIKE K1		COWL K3		STAT XCW/RG= 5.4830	
STAT XCW/RG=	.0728	STAT XCW/RG=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9197	S14	.8119	A36	.9203 A198
R1P1	1.0012	R3P1	.8074	H36	.9276 B198
R1P2	1.0020	R3P2	.8071	C36	.9311 C198
R1P3	1.0020	R3P3	.8069	D36	.9314 D198
R1P4	1.0022	R3P4	.8069	E36	.9267 E198
R1P5	1.0021	R3P5	.8068	90 DEG HAKE	252 DEG HAKE
R1P6	1.0022	R3P6	.8074	A90	.9258 A252
R1P7	1.0021	R3P7	.9633	H90	.9330 H252
R1P8	1.0018	R3P8	.8989	C90	.9323 C252
R1P9	.9996	R3P9	.9443	D90	.9265 D252
		R3P10	1.0032	E90	.9190 E252
		R3P11	1.0031	144 DEG HAKE	324 DEG HAKE
		R3P12	.9950	A144	.9242 A324
		R3P13	1.0037	H144	.9290 H324
		R3P14	1.0036	D144	.9273 D324
		R3P15	1.0036	C144	.9135 C324
		R3P16	1.0034	E144	.9447 E324

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCW/RG=	1.4070	STAT XCW/RG=	1.5380	SPIKE		COWL	
S9	.8583	S20	.7640	XCW/RG	P/PO	IAP	XCW/RG
R2P1	.8720	H4P1	.9434	TAP			P/PO
R2P2	.8865	H4P2	.9610	S1	.9702	.9808	S14
R2P3	.9214	H4P3	.9657	S2	.9728	.9197	S15
R2P4	.9638	H4P4	.9689	S11	.9728	.9188	S16
R2P5	.9717	H4P5	.9701	S12	.9728	.9197	S17
		H4P6	.9701	S13	.9728	.9221	S18
		H4P7	.9707	S3	.1408	.8832	S19
		H4P8	.9708	S4	.4068	.6198	S20
		H4P9	.9704	S5	.6428	.8259	S21
		H4P10	.9644	S6	.8848	.8284	S22
		H4P11	.9686	S7	1.0178	.8333	S23
		H4P12	.9671	S8	1.1448	.8427	S26
				S9	1.5128	.8583	
				S10	1.8488	.8535	
				S27	5.3000	.8540	
				S28	.6428	.9567	

SPIKE K6		COWL K5	
STAT XCW/RG=	3.5040	STAT XCW/RG=	3.3270
S23	.8575	S23	.8575
H6P1	.9002	H5P1	.8908
H6P2	.9084	H5P2	.8924
H6P3	.9111	H5P3	.8947
H6P4	.9153	H5P4	.8968
H6P5	.9164	H5P5	.8944
H6P8	.9225	H5P6	.9043
H6P9	.9237	H5P7	.9116
H6P10	.9266	H5P8	.9250
H6P11	.9287	H5P9	.9352
		H5P10	.9342
		H5P11	.9357

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	16	FLIGHT DATE	04/12/79	SPIKE POS. DX/KC	.H582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.1215
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9165 ATMOS	K-CIRCUMF.	.4330
START	4:35:20.000	INTERVAL	1.000	ENG. FAN REC'D	.9174	ENGINE M/M	.5869	K-RADIAL	.0972
STOP	4:35:50.000	ENG CUR RPM	5535.	ENG. FAN MACH NO	.3600	COWL M/M	.5166	K-DELTA	.0275
				COWL LIP REC'D	.9199	ADDITIVE M/M	.0704	K-A	.1247
				MACH AT COWL LIP	.3375				

SPIKE R1		COWL R3		STAT XCW/KC= 5.4830	
STAT XCW/KC= .0728	STAT XCW/KC= .0700	30 DEG MAKE	198 DEG MAKE		
S2 .9102	S14 .7901	A36 .9064	A198 .9176		
R1P1 1.0007	R3P1 .7856	H36 .9170	B198 .9218		
R1P2 1.0017	R3P2 .7853	C36 .9220	C198 .9344		
R1P3 1.0017	R3P3 .7855	D36 .9246	D198 .9181		
R1P4 1.0014	R3P4 .7851	E36 .9182	E198 .9045		
R1P5 1.0016	R3P5 .7852	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0018	R3P6 .7852	A90 .9150	A252 .9064		
R1P7 1.0019	R3P7 .4542	H90 .9230	B252 1.0018		
R1P8 1.0016	R3P8 .8873	C90 .9242	C252 .9150		
R1P9 .9993	R3P9 .9696	D90 .9185	D252 .9087		
	R3P10 1.0024	E90 .9100	E252 .9000		
	R3P11 1.0029	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9942	A144 .9154	A324 .9119		
	R3P13 1.0035	H144 .9233	H324 .9197		
	R3P14 1.0035	D144 .9167	D324 .9159		
	R3P15 1.0034	E144 .9035	E324 .9118		
	R3P16 1.0036	E144 .8903	E324 .9060		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/KC= 1.4674	STAT XCW/KC= 1.5380	SPIKE	COWL				
S9 .8397	S20 .7327	IAP	XCW/KC	P/PU	IAP	XCW/KC	P/PU
R2P1 .8551	R4P1 .9348	S1 .9162	.9784	S14 .0340	.7901		
R2P2 .8714	R4P2 .9569	S2 .9120	.9102	S15 .1860	.7850		
R2P3 .9114	R4P3 .9620	S11 .9128	.9042	S16 .4150	.8480		
R2P4 .9592	R4P4 .9647	S12 .9120	.9103	S17 .8470	.8343		
R2P5 .9675	R4P5 .9670	S13 .9120	.9126	S18 1.1740	.8445		
	R4P6 .9675	S3 .9140	.8694	S19 1.4540	.8455		
	R4P7 .9663	S4 .9066	.7986	S20 1.5400	.7327		
	R4P8 .9640	S5 .9028	.8043	S21 1.8270	.8302		
	R4P9 .9645	S6 .8890	.8076	S22 2.7840	.8264		
	R4P10 .9670	S7 1.0178	.8125	S23 3.2980	.8394		
	R4P11 .9657	S8 1.1498	.8222	S26 5.2890	.8343		
	R4P12 .9637	S9 1.5126	.8347				
		S10 1.8400	.8343				
		S27 5.3000	.8417				
		S28 .9428	.9514				

SPIKE R6		COWL R5	
STAT XCW/KC= 3.5040	STAT XCW/KC= 3.3270		
S23 .8394	S23 .8394		
R6P1 .8884	R5P1 .8775		
R6P2 .8964	R5P2 .8788		
R6P3 .8984	R5P3 .8810		
R6P4 .9030	R5P4 .8828		
R6P5 .9042	R5P5 .8807		
R6P8 .9117	R5P6 .8431		
R6P9 .9156	R5P7 .8443		
R6P10 .9175	R5P8 .9146		
R6P11 .9176	R5P9 .9270		
	R5P10 .9324		
	R5P11 .9262		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	17	FLIGHT DATE 09/12/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.0527
		FLIGHT NO. 0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9171 ATMOS	K=CIRCUMF.	.3969
START	4:37:14.002	INTERVAL 1.000	ENG. FACE RECOV	.9066	ENGINE M/M*	.5946	K=RADIAL	.0471
STOP	4:37:43.999	ENG LOK RPM 5676.	ENG. FACE MACH NO	.3690	COWL M/M*	.5293	K=DELTA	.0126
			COWL LIP RECOV	.9128	ADDITIVE M/M*	.0653	K=A	.0596
			MACH AT COWL LIP	.3503				

SPIKE R1		COWL K3		STAT XCM/MC= 5.4830	
STAT XCM/MC= .0728	STAT XCM/MC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9028	S14 .7742	A36 .9002	A198 .9082		
R1P1 .9999	R3P1 .7647	H36 .9104	H198 .9149		
R1P2 1.0011	R3P2 .7642	C36 .9146	C198 .9289		
R1P3 1.0010	R3P3 .7689	D36 .9157	D198 .9127		
R1P4 1.0011	R3P4 .7689	E36 .9115	E198 .8966		
R1P5 1.0012	R3P5 .7689	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0012	R3P6 .7698	A90 .9065	A252 .8992		
R1P7 1.0010	R3P7 .9547	H90 .9158	H252 .9021		
R1P8 1.0006	R3P8 .8755	C90 .9162	C252 .9050		
R1P9 .9962	R3P9 .9672	D90 .9094	D252 .9010		
	R3P10 1.0023	E90 .8997	E252 .8921		
	R3P11 1.0021	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9933	A144 .9072	A324 .9000		
	R3P13 1.0026	H144 .9146	H324 .9129		
	R3P14 1.0028	D144 .9088	D324 .9106		
	R3P15 1.0026	C144 .8950	C324 .9060		
	R3P16 1.0029	E144 .8612	E324 .8901		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/MC= 1.4678	STAT XCM/MC= 1.5380	SPIKE	COWL				
S9 .8267	S20 .7046	XCM/MC	P/PU	IAP	XCM/MC	P/PU	
R2P1 .8413	R4P1 .9314	TAP					
R2P2 .8593	R4P2 .9538	S1 .8002	.9763	S14 .0340	.7742		
R2P3 .9031	R4P3 .9594	S2 .0728	.9028	S15 .1860	.7688		
R2P4 .9547	R4P4 .9627	S11 .0728	.9025	S16 .4150	.8367		
R2P5 .9651	R4P5 .9647	S12 .0728	.9036	S17 .8470	.8196		
	R4P6 .9646	S13 .0728	.9063	S18 1.1740	.8307		
	R4P7 .9661	S3 .1408	.8590	S19 1.4590	.8313		
	R4P8 .9667	S4 .4068	.7852	S20 1.5400	.7096		
	R4P9 .9663	S5 .6428	.7885	S21 1.8270	.8154		
	R4P10 .9654	S6 .8898	.7930	S22 2.7840	.8124		
	R4P11 .9641	S7 1.0178	.7979	S23 3.2980	.8254		
	R4P12 .9613	S8 1.1498	.8078	S26 5.2890	.8211		
		S9 1.5128	.8262				
		S10 1.6488	.8213				
		S27 5.3000	.8269				
		S28 .6428	.9476				

SPIKE R6		COWL K5	
STAT XCM/MC= 3.5040	STAT XCM/MC= 3.3270		
S23 .8254	S23 .8254		
R6P1 .8773	R5P1 .8654		
R6P2 .8864	R5P2 .8667		
R6P3 .8897	R5P3 .8692		
R6P4 .8936	R5P4 .8718		
R6P5 .8972	R5P5 .8754		
R6P8 .9031	R5P6 .8825		
R6P9 .9055	R5P7 .8910		
R6P10 .9083	R5P8 .9002		
R6P11 .9107	R5P9 .9230		
	R5P10 .9252		
	R5P11 .9143		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	18	FLIGHT DATE 09/12/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	302.2 DEG K	MAX-MIN DIST	.1368
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9171 ATMUS	K=CIRCUMF.	.5926
START	4:43:28.000	INTERVAL 1.000	ENG. FACE REC'D	.9068	ENGINE M/M	.6041	K=RADIAL	.1040
STOP	4:43:58.000	ENG LUM RPM 5767.	ENG. FACE MACH NO	.3843	COWL M/M	.5365	K=DELTA	.0212
			COWL LIP REC'D	.9097	ADDITIVE M/M	.0676	K=A	.1252
			MACH AT COWL LIP	.3573				

SPIKE R1		COWL H3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8996	S14	.7662	A36	.8472 A198
R1P1	1.0004	R3P1	.7619	B36	.9057 B198
R1P2	1.0012	R3P2	.7615	C36	.9114 C198
R1P3	1.0013	R3P3	.7618	D36	.9127 D198
R1P4	1.0013	R3P4	.7615	E36	.9064 E198
R1P5	1.0013	R3P5	.7613	90 DEG HAKE	252 DEG HAKE
R1P6	1.0015	R3P6	.7620	A90	.9027 A252
R1P7	1.0014	R3P7	.9515	B90	.9115 B252
R1P8	1.0011	R3P8	.8741	C90	.9124 C252
R1P9	.9985	R3P9	.9877	D90	.9056 D252
		R3P10	1.0027	E90	.8463 E252
		R3P11	1.0026	144 DEG HAKE	324 DEG HAKE
		R3P12	.9435	A144	.9028 A324
		R3P13	1.0030	B144	.9114 B324
		R3P14	1.0031	D144	.9046 D324
		R3P15	1.0031	C144	.8410 C324
		R3P16	1.0034	E144	.8773 E324

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCW/KC=	1.4675	STAT XCW/KC=	1.5340	SPIKE		COWL	
S9	.8197	S20	.6986	XCW/KC	P/PU	IAP	XCW/KC
H2P1	.8361	H4P1	.9243	TAP			P/PU
H2P2	.8545	H4P2	.9531	S1	.0762	.9756	S14
H2P3	.8993	H4P3	.9580	S2	.0728	.8946	S15
H2P4	.9549	H4P4	.9546	S11	.0728	.8944	S16
H2P5	.9634	H4P5	.9623	S12	.0728	.8944	S17
		H4P6	.9636	S13	.0728	.9031	S18
		H4P7	.9656	S3	.1408	.8546	S19
		H4P8	.9652	S4	.4066	.7756	S20
		H4P9	.9640	S5	.0428	.7810	S21
		H4P10	.9635	S6	.8848	.7855	S22
		H4P11	.9615	S7	1.0178	.7901	S23
		H4P12	.9585	S8	1.1444	.8002	S26
				S9	1.5126	.8197	
				S10	1.8486	.8140	
				S27	5.5000	.8220	
				S28	.0428	.9462	

SPIKE H6		COWL H5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8186	S23	.8186
H6P1	.8716	H5P1	.8605
H6P2	.8810	H5P2	.8624
H6P3	.8864	H5P3	.8649
H6P4	.8899	H5P4	.8669
H6P5	.8913	H5P5	.8727
H6P8	.8979	H5P6	.8785
H6P9	.9011	H5P7	.8873
H6P10	.9037	H5P8	.9079
H6P11	.9075	H5P9	.9184
		H5P10	.9235
		H5P11	.9170

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	19	FLIGHT DATE 09/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	302.2 DEG K	MAX-MIN DIST	.0571
		FLIGHT NO.	0		AMBIENT PRESS	.9166 ATMOS	K-CIRCUMF.	.3696
START	4146:38.001	INTERVAL	1.000	ENG. FACE RECOV	.9041	ENGINE M/M	.6141	K-RADIAL
STOP	4147: 7.998	ENG CLK RPM	5862.	ENG. FACE MACH NO	.3/50	COWL M/M	.5363	K-DELTA
				COWL LIP RECOV	.9107	ADDITIVE M/M	.0776	K-A
				MACH AT COWL LIP	.3567			.0578

SPIKE R1		COWL R3		STAT XCN/RC= 5.4830	
STAT XCN/RC=	.0728	STAT XCN/RC=	.0700	30 DEG MAKE	198 DEG MAKE
S2	.9002	S14	.7679	A30	.8961 A198
R1P1	1.0008	R3P1	.7623	B30	.9086 B198
R1P2	1.0017	R3P2	.7620	C30	.9127 C198
R1P3	1.0017	R3P3	.7621	D30	.9145 D198
R1P4	1.0014	R3P4	.7619	E30	.9105 E198
R1P5	1.0017	R3P5	.7619	90 DEG MAKE	252 DEG MAKE
R1P6	1.0016	R3P6	.7632	A90	.9057 A252
R1P7	1.0019	R3P7	.9550	H90	.9127 H252
R1P8	1.0015	R3P8	.8777	C90	.9132 C252
R1P9	.9989	R3P9	.9882	D90	.9068 D252
		R3P10	1.0032	E90	.8972 E252
		R3P11	1.0029	144 DEG MAKE	324 DEG MAKE
		R3P12	.9943	A144	.9036 A324
		R3P13	1.0035	B144	.9119 B324
		R3P14	1.0036	D144	.9006 D324
		R3P15	1.0038	C144	.8925 C324
		R3P16	1.0039	E144	.8783 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCN/RC=	1.4676	STAT XCN/RC=	1.5380	SPIKE		COWL	
S9	.8213	S20	.8972	XLN/RC	P/P0	XLN/RC	P/P0
R2P1	.8354	R4P1	.9312	TAP			
R2P2	.8537	R4P2	.9545	S1	.8062 .9759	S14	.0340 .7679
R2P3	.9004	R4P3	.9594	S2	.8078 .9002	S15	.1860 .7615
R2P4	.9564	R4P4	.9622	S11	.8078 .9009	S16	.4150 .8327
R2P5	.9650	R4P5	.9648	S12	.8078 .9007	S17	.8470 .8141
		R4P6	.9651	S13	.8078 .9039	S18	1.1740 .8254
		R4P7	.9661	S3	.1408 .8553	S19	1.4590 .8264
		R4P8	.9662	S4	.4068 .7774	S20	1.5400 .8972
		R4P9	.9653	S5	.8428 .7827	S21	1.8270 .8098
		R4P10	.9650	S6	.8898 .7868	S22	2.7840 .8063
		R4P11	.9629	S7	1.0178 .7922	S23	3.2980 .8210
		R4P12	.9610	S8	1.1498 .8016	S26	5.2890 .8158

SPIKE R6		COWL R5	
STAT XCN/RC=	3.5040	STAT XCN/RC=	3.3270
S23	.8210	S23	.8210
R6P1	.8706	R5P1	.8629
R6P2	.8810	R5P2	.8652
R6P3	.8853	R5P3	.8680
R6P4	.8901	R5P4	.8696
R6P5	.8918	R5P5	.8750
R6P6	.9002	R5P6	.8814
R6P9	.9022	R5P7	.8912
R6P10	.9046	R5P8	.9101
R6P11	.9060	R5P9	.9218
		R5P10	.9241
		R5P11	.9180

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	20	FLIGHT DATE 09/12/79	SPIKE POS. UX/HC	.8582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.1472
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9181 ATMOS	K=CIRCUMF.	.3458
START	5: 0116.000	INTERVAL 1.000	ENG. FACE RECOV	.9009	ENGINE M/M*	.6301	K=RADIAL	.0973
STOP	5: 0146.000	ENG COH RPM 5982.	ENG. FACE MACH NU	.3454	COUL M/M*	.5452		
			COUL LIP RECOV	.9042	ADDITIVE M/M*	.0849	K=DELTA	.0120
			MACH AT COUL LIP	.3668			K=A	.1094

SPIKE R1		COUL R3		STAT XCW/HC# 5.4830	
STAT XCW/HC#	.0728	STAT XCW/HC#	.0700	36 DEG MAKE	198 DEG MAKE
S2	.8937	S14	.7542	A36	.8403
R1P1	.9992	R3P1	.7493	H36	.9008
R1P2	1.0003	R3P2	.7488	C36	.9075
R1P3	1.0004	R3P3	.7484	D36	.9087
R1P4	.9985	R3P4	.7487	E36	.9051
R1P5	1.0005	R3P5	.7487	90 DEG MAKE	252 DEG MAKE
R1P6	1.0003	R3P6	.7501	A90	.8480
R1P7	1.0004	R3P7	.9506	H90	.9073
R1P8	.9999	R3P8	.8675	C90	.9054
R1P9	.9975	R3P9	.9854	D90	.8487
		R3P10	1.0023	E90	.8692
		R3P11	1.0019	144 DEG MAKE	324 DEG MAKE
		R3P12	.9926	A144	.8445
		R3P13	1.0027	H144	.9041
		R3P14	1.0025	D144	.8486
		R3P15	1.0027	C144	.8832
		R3P16	1.0024	E144	.8677

SPIKE R2		COUL R4		STATIC PRESSURES			
STAT XCW/HC#	1.4678	STAT XCW/HC#	1.5380	SPIKE		COUL	
S9	.8090	S20	.8829	XLW/HC	P/PU	TAP	XLW/HC
R2P1	.8260	R4P1	.9248	S1	.0762	S14	.0340
R2P2	.8445	R4P2	.9508	S2	.0728	S15	.1860
R2P3	.8927	R4P3	.9556	S11	.0728	S16	.4150
R2P4	.9543	R4P4	.9584	S12	.0728	S17	.8470
R2P5	.9609	R4P5	.9596	S13	.0728	S18	1.1740
		R4P6	.9616	S3	.1408	S19	1.4590
		R4P7	.9634	S4	.4008	S20	1.5400
		R4P8	.9637	S5	.6428	S21	1.8270
		R4P9	.9627	S6	.8898	S22	2.7840
		R4P10	.9638	S7	1.0178	S23	3.2980
		R4P11	.9623	S8	1.1498	S26	5.2890
		R4P12	.9587	S9	1.5128		

SPIKE R6		COUL R5	
STAT XCW/HC#	3.5040	STAT XCW/HC#	3.3276
S23	.8088	S23	.8088
R6P1	.8619	R5P1	.8531
R6P2	.8747	R5P2	.8544
R6P3	.8794	R5P3	.8581
R6P4	.8827	R5P4	.8590
R6P5	.8860	R5P5	.8604
R6P8	.8922	R5P6	.8716
R6P9	.8941	R5P7	.8839
R6P10	.8995	R5P8	.9030
R6P11	.9015	R5P9	.9160
		R5P10	.9217
		R5P11	.9147

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	21	FLIGHT DATE 04/12/79	SPIKE POS. OX/KC	.6582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.0603
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9171 ATMOS	K-CIRCUMF.	.3447
START	5: 3:47.000	INTERVAL 1.000	ENG. FAL REC OV	.8947	ENGINE M/M*	.6371	K-RADIAL	.0462
STOP	5: 4:17.000	ENG LOW RPM 6055.	ENG. FAL MACH NO	.3972	COWL M/M*	.5524		
			COWL LIP REC OV	.9028	ADDITIVE M/M*	.0847	K-DELTA	.0240
			MACH AT COWL LIP	.5733			K-A	.0702

SPIKE R1		COWL R3		STAT XCLW/KC# 5.4830	
STAT XCLW/KC#	.0728	STAT XCLW/KC#	.0700	36 DEG RAKE	198 DEG RAKE
S2	.8921	S14	.7478	A36	.8868
R1P1	1.0004	R3P1	.7426	H36	.9000
R1P2	1.0016	R3P2	.7417	C36	.9043
R1P3	1.0015	R3P3	.7416	D36	.9072
R1P4	1.0015	R3P4	.7418	E36	.9020
R1P5	1.0014	R3P5	.7419	90 DEG RAKE	252 DEG RAKE
R1P6	1.0017	R3P6	.7433	A90	.8950
R1P7	1.0017	R3P7	.9514	H90	.9066
R1P8	1.0014	R3P8	.8735	C90	.9059
R1P9	.9987	R3P9	.9910	D90	.9002
		R3P10	1.0034	E90	.8867
		R3P11	1.0032	144 DEG RAKE	324 DEG RAKE
		R3P12	.9937	A144	.8957
		R3P13	1.0038	H144	.9048
		R3P14	1.0039	D144	.8980
		R3P15	1.0037	C144	.8832
		R3P16	1.0040	E144	.8685

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCLW/KC#	1.4678	STAT XCLW/KC#	1.5380	SPIKE		COWL	
S9	.8029	S20	.6723	XCLW/KC	P/PU	IAP	XCLW/KC
R2P1	.8196	H4P1	.9218	TAP			P/PU
R2P2	.8410	H4P2	.9477	S1	.0702	.9740	S14
R2P3	.8919	H4P3	.9542	S2	.0728	.8921	S15
R2P4	.9513	H4P4	.9574	S11	.0728	.8913	S16
R2P5	.9608	H4P5	.9604	S12	.0728	.8925	S17
		H4P6	.9606	S13	.0728	.8951	S18
		H4P7	.9634	S3	.1406	.8423	S19
		H4P8	.9635	S4	.4008	.7566	S20
		H4P9	.9619	S5	.6426	.7614	S21
		H4P10	.9616	S6	.8848	.7663	S22
		H4P11	.9602	S7	1.0176	.7719	S23
		H4P12	.9574	S8	1.1448	.7823	S26
				S9	1.5128	.8029	
				S10	1.8488	.7967	
				S27	3.3000	.8067	
				S28	.6426	.9422	

SPIKE R6		COWL R5	
STAT XCLW/KC#	3.5040	STAT XCLW/KC#	3.3276
S23	.8029	S23	.8029
R6P1	.8574	R5P1	.8476
R6P2	.8681	R5P2	.8510
R6P3	.8754	R5P3	.8535
R6P4	.8793	R5P4	.8550
R6P5	.8817	R5P5	.8608
R6P6	.8911	R5P6	.8605
R6P9	.8939	R5P7	.8782
R6P10	.8972	R5P8	.8980
R6P11	.8995	R5P9	.9142
		R5P10	.9134
		R5P11	.9042

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	22	FLIGHT DATE	09/12/79	SPIKE POS. UX/RC	.8582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.1609
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9176 ATMUS	K-CIRCUMF.	.3210
START	5: 5155.001	INTERVAL	1.000	ENG. FACE RECOV	.8914	ENGINE M/M*	.6649	K-RADIAL	.0997
STOP	5: 6135.000	ENG CUR RPM	6213.	ENG. FACE MACH NO	.4212	COWL M/M*	.5661	K-DELTA	.0320
				COWL LIP RECOV	.8968	ADDITIVE M/M*	.0988	K-A	.1317
				MACH AT COWL LIP	.3875				

SPIKE R1		COWL R3		STAT XCN/RC= 5.4830	
STAT XCN/RC=	.0728	STAT XCN/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.8849	S14	.7322	A36	.8780 A198
R1P1	.9997	R3P1	.7269	H36	.8933 B198
R1P2	1.0007	R3P2	.7265	C36	.9011 C198
R1P3	1.0007	R3P3	.7261	D36	.9020 D198
R1P4	1.0010	R3P4	.7259	E36	.8945 E198
R1P5	1.0009	R3P5	.7259	90 DEG MAKE	252 DEG MAKE
R1P6	1.0008	R3P6	.7282	A90	.8875 A252
R1P7	1.0010	R3P7	.9473	H90	.9004 B252
R1P8	1.0005	R3P8	.8970	C90	.9004 C252
R1P9	.9980	R3P9	.9475	D90	.8927 D252
		R3P10	1.0034	E90	.8815 E252
		R3P11	1.0029	144 DEG MAKE	324 DEG MAKE
		R3P12	.9427	A144	.8865 A324
		R3P13	1.0035	H144	.8977 B324
		R3P14	1.0034	D144	.8913 C324
		R3P15	1.0035	C144	.8743 D324
		R3P16	1.0038	E144	.8574 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCN/RC=	1.4678	STAT XCN/RC=	1.5380	SPIKE		COWL	
S9	.7881	S20	.8538	XCN/RC	P/P0	XCN/RC	P/P0
R2P1	.8061	R4P1	.9180	S1	.9718	S14	.0340
R2P2	.8274	R4P2	.9442	S2	.8849	S15	.1860
R2P3	.8834	R4P3	.9512	S11	.8846	S16	.4150
R2P4	.9517	R4P4	.9563	S12	.8857	S17	.8470
R2P5	.9611	R4P5	.9584	S13	.8884	S18	1.1740
		R4P6	.9543	S3	.8322	S19	1.4590
		R4P7	.9615	S4	.7407	S20	1.5400
		R4P8	.9624	S5	.7451	S21	1.8270
		R4P9	.9629	S6	.8848	S22	2.7840
		R4P10	.9616	S7	.7507	S23	3.2980
		R4P11	.9607	S8	.7665	S26	5.2890
		R4P12	.9574	S9	.7881		
				S10	.7814		
				S27	.7926		
				S28	.9367		

SPIKE R6		COWL R5	
STAT XCN/RC=	3.5040	STAT XCN/RC=	3.3270
S23	.7881	S23	.7881
R6P1	.8480	R5P1	.8306
R6P2	.8597	R5P2	.8387
R6P3	.8653	R5P3	.8422
R6P4	.8705	R5P4	.8447
R6P5	.8723	R5P5	.8503
R6P8	.8827	R5P6	.8575
R6P9	.8839	R5P7	.8688
R6P10	.8863	R5P8	.8914
R6P11	.8920	R5P9	.9100
		R5P10	.9124
		R5P11	.9040

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	23	FLIGHT DATE 09/12/79	SPIKE POS. DX/RX	.8582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.0689
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9180 ATMOS	K=CIRCUMF.	.2850
START	5:13:53.001	INTERVAL 1.000	ENG. FUEL RECOV	.8842	ENGINE M/M*	.6720	K=RADIAL	.0486
STOP	5:14:22.999	ENG LOK RPM 6275.	ENG. FUEL MACH NO	.4220	COWL M/M*	.5688	K=DELTA	.0080
			COWL LIP RECOV	.8936	AUDITIVE M/M*	.1032	K=A	.0566
			MACH AT COWL LIP	.3414				

SPIKE H1		COWL H3		STAT XCM/RCE 5.4850	
STAT XCM/RCE	.0728	STAT XCM/RCE	.0700	30 DEG HAKE	198 DEG HAKE
S2	.8818	S14	.7263	A36	.8725 A198
R1P1	.9993	R3P1	.7206	B36	.8807 H198
R1P2	1.0005	R3P2	.7198	C36	.8954 C198
R1P3	1.0007	R3P3	.7205	D36	.8974 D198
R1P4	1.0007	R3P4	.7204	E36	.8911 E198
R1P5	1.0004	R3P5	.7205	90 DEG HAKE	252 DEG HAKE
R1P6	1.0009	R3P6	.7216	A90	.8834 A252
R1P7	1.0007	R3P7	.9459	H90	.8954 H252
R1P8	1.0003	R3P8	.8742	C90	.8957 C252
R1P9	.9977	R3P9	.9950	D90	.8876 D252
		P3F10	1.0032	E90	.8762 E252
		R3F11	1.0028	144 DEG HAKE	324 DEG HAKE
		R3P12	.9927	A144	.8828 A324
		R3P13	1.0035	H144	.8941 H324
		P3P14	1.0036	D144	.8845 D324
		P3P15	1.0033	C144	.8885 C324
		R3P16	1.0034	F144	.8525 F324

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCM/RCE	1.4678	STAT XCM/RCE	1.5380	SPIKE		COWL	
S9	.7414	S20	.8384	TAP	XCM/RCE	P/PO	TAP
R2P1	.7488	R4P1	.9147	S1	.0762	.9705	S14
R2P2	.8210	R4P2	.9441	S2	.0728	.8818	S15
R2P3	.8772	R4P3	.9515	S11	.0728	.8813	S16
R2P4	.9500	R4P4	.9544	S12	.0728	.8810	S17
R2P5	.9592	R4P5	.9580	S13	.0728	.8857	S18
		R4P6	.9585	S3	.1408	.8287	S19
		P4P7	.9606	S4	.4068	.7342	S20
		R4P8	.9616	S5	.0428	.7384	S21
		R4P9	.9615	S6	.8848	.7443	S22
		R4P10	.9622	S7	1.0178	.7448	S23
		R4P11	.9594	S8	1.1448	.7549	S26
		R4P12	.9574	S9	1.5128	.7818	
				S10	1.8488	.7754	
				S27	5.3000	.7864	
				S28	.6428	.9371	

SPIKE H6		COWL H5	
STAT XCM/RCE	3.5040	STAT XCM/RCE	3.3270
S23	.7824	S23	.7824
R6P1	.8436	R5P1	.8325
R6P2	.8561	R5P2	.8345
R6P3	.8602	R5P3	.8365
R6P4	.8661	R5P4	.8401
R6P5	.8689	R5P5	.8462
R6P6	.8769	R5F6	.8533
R6P9	.8802	R5P7	.8608
R6P10	.8861	R5P8	.8641
R6P11	.8890	R5F9	.9042
		R5P10	.9101
		R5P11	.9026

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	24	FLIGHT DATE 04/12/79	SPIKE POS. DX/KC	.6582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.1727
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9173 ATMOS	K=CIRCUMF.	.2901
START	5:15:55.001	INTERVAL 1.000	ENG. FACE REC'D	.8864	ENGINE M/M*	.6906	K=RADIAL	.0992
STOP	5:16:24.997	ENG CUR RPM 6367.	ENG. FACE MACH NO	.4386	COWL M/M*	.5751	K=DELTA	.0285
			COWL LIP REC'D	.8919	ADDITIVE M/M*	.1156	K=A	.1277
			MACH AT COWL LIP	.3977				

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8802	S14	.7195	A36	.8721 A198
K1P1	1.0001	R3P1	.7146	H36	.8874 H198
R1P2	1.0013	K3P2	.7140	C36	.8940 C198
K1P3	1.0015	R3P3	.7140	D36	.8960 D198
R1P4	1.0013	K3P4	.7157	E36	.8883 E198
R1P5	1.0016	K3P5	.7159	90 DEG HAKE	252 DEG HAKE
R1P6	1.0016	K3P6	.7158	A90	.8820 A252
K1P7	1.0014	K3P7	.9454	H90	.8958 H252
R1P8	1.0009	K3P8	.8912	C90	.8901 C252
R1P9	.9987	K3P9	.9991	D90	.8871 D252
		R3P10	1.0041	E90	.8702 E252
		R3P11	1.0036	144 DEG HAKE	324 DEG HAKE
		R3P12	.9936	A144	.8822 A324
		K3P13	1.0043	H144	.8971 H324
		K3P14	1.0043	D144	.8803 D324
		K3P15	1.0042	E144	.8674 E324
		K3P16	1.0046	E144	.8484 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.7753	S20	.6302	ALW/KC	P/P0	TAP	XCW/KC P/P0
K2P1	.7925	K4P1	.9119	S1	.0702	S14	.0340 .7195
K2P2	.8156	K4P2	.9424	S2	.0728	S15	.1860 .7122
K2P3	.8764	K4P3	.9512	S11	.0728	S16	.4150 .7964
K2P4	.9535	K4P4	.9552	S12	.0728	S17	.8470 .7709
K2P5	.9597	K4P5	.9580	S13	.0728	S18	1.1740 .7829
		K4P6	.9545	S3	.1408	S19	1.4590 .7847
		K4P7	.9610	S4	.4008	S20	1.5400 .6302
		K4P8	.9623	S5	.8028	S21	1.8270 .7614
		K4P9	.9624	S6	.8846	S22	2.7840 .7578
		K4P10	.9621	S7	1.0178	S23	3.2980 .7764
		K4P11	.9603	S8	1.1448	S26	5.2690 .7707
		K4P12	.9507	S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.8428		

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.5270
S23	.7764	S23	.7764
K6P1	.8394	K5P1	.8265
K6P2	.8519	K5P2	.8302
K6P3	.8551	K5P3	.8330
K6P4	.8609	K5P4	.8371
K6P5	.8654	K5P5	.8412
K6P6	.8726	K5P6	.8472
K6P9	.8764	K5P7	.8608
K6P10	.8815	K5P8	.8663
K6P11	.8843	K5P9	.9050
		K5P10	.9112
		K5P11	.9014

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	25	FLIGHT DATE 09/12/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.0786
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9180 ATMOS	K-CIRCUMF.	.2610
START	5117138.000	INTERVAL 1.000	ENG. FACE RECUV	.8763	ENGINE M/M*	.7029	K-RADIAL	.0535
STOP	51181 7.998	ENG CUM RPM 6493.	ENG. FACE MACH NO	.4434	COWL M/M*	.5815	K-DELTA	.0164
			COWL LIP RECUV	.8864	ADDITIVE M/M*	.1214	K-A	.0699
			MACH AT COWL LIP	.4062				

SPIKE K1		COWL K3		STAT XCM/KC= 5.4830	
STAT XCM/KC=	.0728	STAT XCM/KC=	.0700	30 DEG KAKE	198 DEG KAKE
S2	.8744	S14	.7081	A36	.8635
R1P1	.9993	R3P1	.7024	H36	.8810
R1P2	1.0005	R3P2	.7018	C36	.8802
R1P3	1.0008	R3P3	.7020	D36	.8911
R1P4	1.0006	R3P4	.7020	E36	.8803
R1P5	1.0008	R3P5	.7019	90 DEG KAKE	252 DEG KAKE
R1P6	1.0008	R3P6	.7039	A90	.8761
R1P7	1.0008	R3P7	.9401	H90	.8902
R1P8	1.0003	R3P8	.8872	C90	.8902
R1P9	.9978	R3P9	.9983	D90	.8811
		R3P10	1.0034	E90	.8885
		R3P11	1.0027	144 DEG KAKE	324 DEG KAKE
		R3P12	.9927	A144	.8740
		R3P13	1.0035	H144	.8900
		R3P14	1.0036	D144	.8804
		R3P15	1.0035	C144	.8811
		R3P16	1.0037	E144	.8812

SPIKE K2		COWL K4		STATIC PRESSURES	
STAT XCM/KC=	1.4678	STAT XCM/KC=	1.5380	SPIKE	COWL
S9	.7641	S20	.8121	XCM/KC	P/PU
R2P1	.7419	R4P1	.9089	TAP	TAP
R2P2	.8045	R4P2	.9396	S1	.0340
R2P3	.8686	R4P3	.9483	S2	.1860
R2P4	.9499	R4P4	.9528	S11	.4150
R2P5	.9564	R4P5	.9561	S12	.8470
		R4P6	.9577	S13	1.1740
		R4P7	.9600	S3	.7721
		R4P8	.9598	S4	1.4590
		R4P9	.9603	S5	1.5400
		R4P10	.9617	S6	1.8270
		R4P11	.9600	S7	2.7640
		R4P12	.9563	S8	3.2980
				S9	5.2890
				S10	.7602
				S11	.7572
				S12	.7703
				S13	.9333

SPIKE K6		COWL K5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.7648	S23	.7648
R6P1	.8286	R5P1	.8164
R6P2	.8424	R5P2	.8208
R6P3	.8494	R5P3	.8245
R6P4	.8523	R5P4	.8281
R6P5	.8567	R5P5	.8324
R6P6	.8659	R5P6	.8401
R6P7	.8685	R5P7	.8548
R6P8	.8730	R5P8	.8619
R6P9	.8780	R5P9	.8948
		R5P10	.9063
		R5P11	.8983

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	26	FLIGHT DATE	04/12/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	225.9 DEG K	MAX-MIN DIST	.1899
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9181 ATMUS	K-CIRCUMF.	.1906
START	5:18:58.000	INTERVAL	1.000	ENG. FALC RECOV	.8768	ENGINE M/M*	.8052	K-RADIAL	.0711
STOP	5:19:28.000	ENG CUR RPM	6589.	ENG. FALC MACH NO	.4583	COWL M/M*	.5857		
				COWL LIP RECOV	.8826	ADDITIVE M/M*	.2194	K-DELTA	.0151
				MACH AT COWL LIP	.4121			K-A	.0862

SPIKE W1		COWL K3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.0726	STAT XCW/RC=	.0700	36 DEG MAKE	148 DEG MAKE
S2	.8708	S14	.6946	A36	.8597
K1P1	.9996	K3P1	.6951	H36	.8754
K1P2	1.0008	K3P2	.6947	C36	.8852
K1P3	1.0009	K3P3	.6943	D36	.8845
K1P4	1.0007	K3P4	.6943	E36	.8834
K1P5	1.0011	K3P5	.6942	90 DEG MAKE	252 DEG MAKE
K1P6	1.0009	K3P6	.6958	A90	.8704
K1P7	1.0008	K3P7	.9408	H90	.8840
K1P8	1.0005	K3P8	.8726	C90	.8849
K1P9	.9980	K3P9	.9967	D90	.8734
		K3P10	1.0033	E90	.8805
		K3P11	1.0027	144 DEG MAKE	324 DEG MAKE
		K3P12	.9920	A144	.8885
		K3P13	1.0032	H144	.8817
		K3P14	1.0035	D144	.8714
		K3P15	1.0033	C144	.8531
		K3P16	1.0037	E144	.8542
				A324	.8681
				H324	.8820
				D324	.8749
				C324	.8705
				E324	.8602

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	1.4078	STAT XCW/RC=	1.5380	SPIKE	COWL		
S9	.7572	S20	.8024	XCW/RC	P/PO	TAP	XCW/RC
K2P1	.7752	K4P1	.9053	S1	.9683	S14	.0340
K2P2	.7982	K4P2	.9378	S2	.8708	S15	.1860
K2P3	.8640	K4P3	.9467	S11	.8708	S16	.4150
K2P4	.9487	K4P4	.9504	S12	.8889	S17	.8470
K2P5	.9561	K4P5	.9551	S13	.8757	S18	1.1740
		K4P6	.9500	S3	.8119	S19	1.4590
		K4P7	.9587	S4	.4066	S20	1.5400
		K4P8	.9600	S5	.6428	S21	1.8270
		K4P9	.9613	S6	.8848	S22	2.7840
		K4P10	.9614	S7	1.0178	S23	3.2980
		K4P11	.9604	S8	1.1448	S26	5.2890
		K4P12	.9570	S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE K6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7578	S23	.7578
K6P1	.8238	K5P1	.8139
K6P2	.8386	K5P2	.8151
K6P3	.8439	K5P3	.8184
K6P4	.8495	K5P4	.8223
K6P5	.8528	K5P5	.8274
K6P6	.8637	K5P6	.8364
K6P9	.8671	K5P7	.8444
K6P10	.8700	K5P8	.8763
K6P11	.8756	K5P9	.8478
		K5P10	.9050
		K5P11	.8464

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	27	FLIGHT DATE 09/12/79	SPIKE POS. OX/RC	.0582	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	.0050
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9177 ATMOS	K-CIRCUMF.	.2369
START	5:20:27.000	INTERVAL 1.000	ENG. FALRE RECOV	.0706	ENGINE M/M	.7224	K-RADIAL	.0540
STOP	5:20:50.999	ENG COM MPH 0085.	ENG. FALRE MACH NO	.4580	COWL M/M	.5908		
			COWL LIP RECOV	.8819	ADDITIVE M/M	.1316	K-DELTA	.0112
			MACH AT COWL LIP	.4170			K-A	.0652

SPIKE R1		COWL R3		STAT ALW/MCH 5.4830	
STAT	XCW/RC# .0728	STAT	XCW/MCH .0700	30 DEG	WAKE
S2	.8697	S14	.0452	A36	.8574
K1P1	.9998	K3P1	.0846	H36	.8145
K1P2	1.0011	K3P2	.0842	C36	.0026
K1P3	1.0014	K3P3	.0807	U36	.0000
K1P4	1.0014	K3P4	.0888	E36	.0003
K1P5	1.0016	K3P5	.0884	90 DEG	WAKE
K1P6	1.0015	K3P6	.0912	A90	.0044
K1P7	1.0016	K3P7	.0928	H90	.0034
K1P8	1.0010	K3P8	.0936	C90	.0000
K1P9	.9984	K3P9	1.0005	D90	.0143
		K3P10	1.0040	E90	.0021
		K3P11	1.0035	144 DEG	WAKE
		K3P12	.0936	A144	.0033
		K3P13	1.0042	H144	.0027
		K3P14	1.0042	D144	.0116
		K3P15	1.0041	C144	.0526
		K3P16	1.0043	E144	.0336

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCW/RC# 1.4678	STAT	ALW/MCH 1.5380	SPIKE		COWL	
S9	.7517	S20	.5921	ALW/MCH	P/PO	TAP	ALW/MCH
K2P1	.7703	K4P1	.4032	S1	.0162	S14	.0340
K2P2	.7962	K4P2	.4337	S2	.0120	S15	.1860
K2P3	.8637	K4P3	.4438	S11	.0128	S16	.4150
K2P4	.9503	K4P4	.4447	S12	.0128	S17	.8470
K2P5	.9554	K4P5	.4532	S13	.0120	S18	1.1740
		K4P6	.4505	S3	.1408	S19	1.4540
		K4P7	.4586	S4	.4068	S20	1.5400
		K4P8	.4601	S5	.6428	S21	1.8270
		K4P9	.4601	S6	.8848	S22	2.7840
		K4P10	.4596	S7	1.0170	S23	3.2480
		K4P11	.4591	S8	1.1448	S26	5.2890
		K4P12	.4568	S9	1.3128		

SPIKE R6		COWL R5	
STAT	ALW/MCH 3.5040	STAT	ALW/MCH 3.3270
S23	.7529	S23	.7524
K6P1	.4204	K5P1	.0001
K6P2	.0354	K5P2	.0113
K6P3	.4394	K5P3	.0154
K6P4	.4452	K5P4	.0174
K6P5	.4491	K5P5	.0230
K6P6	.4595	K5P6	.0343
K6P9	.4622	K5P7	.0488
K6P10	.0649	K5P8	.0714
K6P11	.4726	K5P9	.0454
		K5P10	.4035
		K5P11	.4437

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	35	FLIGHT DATE 09/13/74	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0444
		FLIGHT NO. 0	BYPASS POS.	UMEN	AMBIENT PRESS	.9168 ATMOS	K-CIRCUMF.	.7424
START	21 8119.999	INTERVAL 1.000	ENG. FACE RECOV	.9703	ENGINE M/M*	.4899	K-RADIAL	.0777
STOP	21 8140.000	ENG CUR RPM 3803.	ENG. FACE MACH NU	.2161	COWL M/M*	.2198		
			COWL LIP RECOV	.4913	ADDITIVE M/M*	.2701	K-DELTA	.0636
			MACH AT COWL LIP	.1258			K-A	.1413

SPIKE R1		COWL R3		STAT XCW/MC= 5.4830	
STAT XCW/MC= .0728	STAT XCW/MC= .0700	30 DEG HAKE	198 DEG HAKE		
S2	.9989	A36	.9700	A198	.9826
R1P1	1.0016	H36	.9716	H198	.9832
R1P2	1.0018	C36	.9802	C198	1.0023
R1P3	1.0019	D36	.9635	D198	.9795
R1P4	1.0296	E36	.9589	E198	.9657
R1P5	1.0018	90 DEG HAKE	252 DEG HAKE		
R1P6	1.0018	A90	.9835	A252	.9789
R1P7	1.0019	H90	.9847	H252	.9776
R1P8	1.0097	C90	.9803	C252	.9778
R1P9	1.0117	D90	.9771	D252	.9728
		E90	.9703	E252	.9746
		144 DEG HAKE	324 DEG HAKE		
		A144	.9838	A324	.9777
		H144	.9830	H324	.9778
		D144	.9741	D324	.9777
		C144	.9699	C324	.9744
		E144	.9657	E324	.9709

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/MC= 1.4678	STAT XCW/MC= 1.5380			SPIKE		COWL	
S9	.9773	S20	.9503	XCW/MC	P/PU	IAP	XCW/MC P/PU
R2P1	.9773	H4P1	.9914	S1	.0702	.9956	S14 .0340 .9619
R2P2	.9805	H4P2	.9938	S2	.0720	.9989	S15 .1860 .9585
R2P3	.9874	H4P3	.9944	S11	.0720	.9831	S16 .4150 .9714
R2P4	.9977	H4P4	.9952	S12	.0720	.9830	S17 .8470 .9704
R2P5	.9930	H4P5	.9953	S13	.0720	.9833	S18 1.1740 .9723
		H4P6	.9950	S3	.1408	.9757	S19 1.4590 .9727
		H4P7	.9952	S4	.4008	.9626	S20 1.5400 .9563
		H4P8	.9950	S5	.0420	.9647	S21 1.8270 .9722
		H4P9	.9949	S6	.8898	.9650	S22 2.7840 .9331
		H4P10	.9949	S7	1.0178	.9670	S23 3.2980 .9445
		H4P11	.9942	S8	1.1498	.9695	S26 5.2890 .9434
		H4P12	.9938	S9	1.3120	.9713	
				S10	1.8488	.9723	
				S27	5.3000	.9450	
				S28	.0420	.9409	

SPIKE R6		COWL R5	
STAT XCW/MC= 3.5040	STAT XCW/MC= 3.3270		
S23	.9445	S23	.9445
R6P1	.9773	K5P1	.9646
R6P2	.9802	K5P2	.9670
R6P3	.9794	K5P3	.9677
R6P4	.9968	K5P4	.9713
K6P5	.9831	K5P5	.9722
K6P6	.9967	K5P6	.9753
R6P9	.9802	K5P7	.9827
K6P10	.9855	K5P8	.9888
K6P11	.9750	K5P9	.9807
		K5P10	.9865
		K5P11	.9860

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	36	FLIGHT DATE 09/13/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.0279
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9174 ATMOS	K-CIRCUMF.	.7213
START	2:14:38.000	INTERVAL 1.000	ENG. FARE REC'D	.9718	ENGINE M/M	.4950	K-RADIAL	.0929
STOP	2:15: 7.949	ENG. LUM RPM 3929.	ENG. FARE MACH NO	.2220	COWL M/M	.2563		
			COWL LIP REC'D	.9846	ADDITIVE M/M	.2387	K-DELTA	.0633
			MACH AT COWL LIP	.1482			K-A	.1562

SPIKE R1		COWL R3		STAT XCN/KC= 5.4830	
STAT XCN/KC= .0726	STAT XCN/KC= .0700	30 DEG RAKE	198 DEG RAKE		
S2 .9814	S14 .9577	A36 .9731	A198 .9807		
K1P1 1.0009	K3P1 .9565	B36 .9682	B198 .9820		
K1P2 1.0011	K3P2 .9564	C36 .9614	C198 .9817		
K1P3 1.0011	K3P3 .9564	D36 .9583	D198 .9688		
K1P4 1.0011	K3P4 .9566	E36 .9558	E198 .9628		
K1P5 1.0011	K3P5 .9564	90 DEG RAKE	252 DEG RAKE		
K1P6 1.0013	K3P6 .9563	A90 .9619	A252 .9743		
K1P7 1.0011	K3P7 .9424	B90 .9629	B252 .9726		
K1P8 1.0012	K3P8 .9713	C90 .9782	C252 .9707		
K1P9 1.0005	K3P9 .9929	D90 .9746	D252 .9767		
	K3P10 1.0016	E90 .9722	E252 .9648		
	K3P11 1.0023	144 DEG RAKE	324 DEG RAKE		
	K3P12 1.0003	A144 .9822	A324 .9758		
	K3P13 1.0025	B144 .9809	B324 .9751		
	K3P14 1.0027	D144 .9710	D324 .9711		
	K3P15 1.0026	C144 .9662	C324 .9685		
	K3P16 1.0027	E144 .9614	E324 .9677		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCN/KC= 1.4678	STAT XCN/KC= 1.5380			SPIKE	COWL		
S9 .9707	S20 .9514	TAP	XCN/KC	P/PU	TAP	XCN/KC	P/PU
K2P1 .9750	K4P1 .9494	S1	.9762	.9949	S14	.0340	.9577
K2P2 .9784	K4P2 .9928	S2	.9728	.9814	S15	.1860	.9544
K2P3 .9856	K4P3 .9432	S11	.9728	.9809	S16	.4150	.9689
K2P4 .9923	K4P4 .9437	S12	.9728	.9807	S17	.8470	.9669
K2P5 .9932	K4P5 .9439	S13	.9728	.9817	S18	1.1740	.9696
	K4P6 .9438	S3	.1408	.9730	S19	1.4590	.9698
	K4P7 .9442	S4	.4068	.9586	S20	1.5400	.9514
	K4P8 .9446	S5	.6428	.9611	S21	1.8270	.9691
	K4P9 .9442	S6	.8848	.9617	S22	2.7840	.9271
	K4P10 .9437	S7	1.0178	.9634	S23	3.2980	.9387
	K4P11 .9430	S8	1.1498	.9664	S26	5.2890	.9371
	K4P12 .9431	S9	1.5128	.9707			
		S10	1.8488	.9691			
		S27	5.3000	.9401			
		S28	.6428	.9898			

SPIKE R6		COWL R5	
STAT XCN/KC= 3.5040	STAT XCN/KC= 3.3270		
S23 .9387	S23 .9387		
K6P1 .9691	K5P1 .9008		
K6P2 .9775	K5P2 .9627		
K6P3 .9777	K5P3 .9648		
K6P4 .9749	K5P4 .9672		
K6P5 .9811	K5P5 .9672		
K6P8 .9804	K5P6 .9725		
K6P9 .9785	K5P7 .9807		
K6P10 .9759	K5P8 .9875		
K6P11 .9653	K5P9 .9856		
	K5P10 .9835		
	K5P11 .9834		

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	37	FLIGHT DATE 09/13/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0340
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9172 ATMOS	K-CIRCUMF.	.6746
START	2:17:58.002	INTERVAL 1.000	ENG. FACE RECOV	.9655	ENGINE M/M*	.5114	K-RADIAL	.1099
STOP	2:18:28.000	ENG LOU RPM 4220.	ENG. FACE MACH NO	.2481	COWL M/M*	.2834		
			COWL LIP RECOV	.9805	ADDITIVE M/M*	.2280	K-DELTA	.0683
			MACH AT COWL LIP	.1650			K-A	.1782

SPIKE R1		COWL K3		STAT XCW/MC= 5.4830	
STAT XCW/MC= .0728	STAT XCW/MC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9771	S14 .9471	A36 .9677	A198 .9764		
R1P1 1.0010	R3P1 .9461	B36 .9613	B198 .9773		
R1P2 1.0013	R3P2 .9454	C36 .9533	C198 .9772		
R1P3 1.0012	R3P3 .9454	D36 .9484	D198 .9615		
R1P4 1.0013	R3P4 .9458	E36 .9457	E198 .9535		
R1P5 1.0012	R3P5 .9464	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0012	R3P6 .9462	A90 .9776	A252 .9715		
R1P7 1.0012	R3P7 .9498	H90 .9783	H252 .9675		
R1P8 1.0012	R3P8 .9635	C90 .9728	C252 .9649		
R1P9 1.0004	R3P9 .9405	D90 .9684	D252 .9629		
	R3P10 1.0016	E90 .9601	E252 .9574		
	R3P11 1.0025	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9948	A144 .9781	A324 .9701		
	R3P13 1.0028	H144 .9762	H324 .9699		
	R3P14 1.0027	D144 .9643	D324 .9647		
	R3P15 1.0026	L144 .9588	L324 .9607		
	R3P16 1.0028	E144 .9533	E324 .9600		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/MC= 1.4678	STAT XCW/MC= 1.5380	SPIKE	XCW/MC	P/PO	IAP	COWL XCW/MC	P/PO
S9 .9644	S20 .9397						
R2P1 .9684	R4P1 .9876	IAP	XCW/MC	P/PO	IAP	XCW/MC	P/PO
R2P2 .9730	R4P2 .9909	S1 .9702	.9936	S14 .0340	.9471		
R2P3 .9815	R4P3 .9916	S2 .9726	.9771	S15 .1860	.9441		
R2P4 .9903	R4P4 .9916	S11 .9726	.9768	S16 .4150	.9609		
R2P5 .9912	R4P5 .9921	S12 .9724	.9766	S17 .8470	.9594		
	R4P6 .9921	S13 .9726	.9775	S18 1.1740	.9624		
	R4P7 .9926	S3 .1468	.9669	S19 1.4590	.9629		
	R4P8 .9926	S4 .4068	.9448	S20 1.5400	.9397		
	R4P9 .9926	S5 .6426	.9525	S21 1.8270	.9621		
	R4P10 .9925	S6 .8698	.9530	S22 2.7840	.9099		
	R4P11 .9921	S7 1.0178	.9553	S23 3.2980	.9238		
	R4P12 .9917	S8 1.1448	.9589	S26 5.2890	.9231		
		S9 1.3128	.9644				
		S10 1.6400	.9622				
		S27 5.3000	.9260				
		S28 .6426	.9874				

SPIKE K6		COWL K5	
STAT XCW/MC= 3.5040	STAT XCW/MC= 3.3270		
S23 .9238	S23 .9238		
R6P1 .9616	R5P1 .9448		
R6P2 .9718	R5P2 .9533		
R6P3 .9729	R5P3 .9559		
R6P4 .9761	R5P4 .9574		
R6P5 .9771	R5P5 .9604		
R6P8 .9768	R5P6 .9648		
R6P9 .9740	R5P7 .9744		
R6P10 .9688	R5P8 .9837		
R6P11 .9562	R5P9 .9825		
	R5P10 .9800		
	R5P11 .9601		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	30	FLIGHT DATE 09/13/79	SPIKE POS. DX/MC	.8583	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0387
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9167 ATMOS	K=CIRCUMF.	.6430
START	2121:40.000	INTERVAL 1.000	ENG. FACE RECOV	.9614	ENGINE M/M*	.5224	K=RADIAL	.1172
STOP	2122: 9.999	ENG LOK RPM 4397.	ENG. FACE MACH NO	.2653	COWL M/M*	.2990		
			COWL LIP RECOV	.9781	ADDITIVE M/M*	.2234	K=DELTA	.0684
			MACH AT COWL LIP	.1749			K=A	.1856

SPIKE R1		COWL K3		STAT XCM/MC= 5.4830	
STAT XCM/MC= .0727	STAT XCM/MC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9747	S14 .9403	A36 .9633	A198 .9730		
R1P1 1.0015	R3P1 .9394	B36 .9567	B198 .9753		
R1P2 1.0018	R3P2 .9393	C36 .9405	C198 .9751		
R1P3 1.0019	R3P3 .9394	U36 .9425	D198 .9584		
R1P4 1.0018	R3P4 .9395	E36 .9387	E198 .9473		
R1P5 1.0019	R3P5 .9394	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0020	R3P6 .9393	A90 .9749	A252 .9671		
R1P7 1.0018	R3P7 .9890	B90 .9753	B252 .9622		
R1P8 1.0018	R3P8 .9558	C90 .9689	C252 .9604		
R1P9 1.0011	R3P9 .9856	D90 .9653	D252 .9591		
	R3P10 1.0016	E90 .9616	E252 .9523		
	R3P11 1.0032	144 DEG MAKE	324 DEG MAKE		
	R3P12 1.0002	A144 .9760	A324 .9681		
	R3P13 1.0034	B144 .9738	B324 .9600		
	R3P14 1.0034	D144 .9603	C324 .9619		
	R3P15 1.0034	C144 .9532	D324 .9570		
	R3P16 1.0035	E144 .9461	E324 .9551		

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCM/MC= 1.4677	STAT XCM/MC= 1.5380			SPIKE		COWL	
S9 .9596	S20 .9365	TAP	XCM/MC	P/PO	TAP	XCM/MC	P/PO
R2P1 .9647	R4P1 .9852	S1	.9763	.9938	S14	.0340	.9403
R2P2 .9689	R4P2 .9849	S2	.9727	.9747	S15	.1860	.9368
R2P3 .9797	R4P3 .9407	S11	.9727	.9746	S16	.4150	.9565
R2P4 .9890	R4P4 .9915	S12	.9727	.9742	S17	.8470	.9542
R2P5 .9907	R4P5 .9416	S13	.9727	.9752	S18	1.1740	.9580
	R4P6 .9918	S3	.1407	.9633	S19	1.4590	.9585
	R4P7 .9417	S4	.4067	.9436	S20	1.5400	.9305
	R4P8 .9416	S5	.6427	.9468	S21	1.8270	.9579
	R4P9 .9414	S6	.8897	.9474	S22	2.7840	.8949
	R4P10 .9911	S7	1.0177	.9496	S23	3.2980	.9138
	R4P11 .9410	S8	1.1447	.9536	S24	5.2890	.9132
		S9	1.5127	.9596			
		S10	1.8487	.9574			
		S27	5.3000	.9166			
		S28	.6427	.9864			

SPIKE K6		COWL K5	
STAT XCM/MC= 3.5049	STAT XCM/MC= 3.3270		
S23 .9138	S23 .9138		
K6P1 .9574	K5P1 .9447		
K6P2 .9687	K5P2 .9475		
K6P3 .9694	K5P3 .9507		
K6P4 .9731	K5P4 .9530		
K6P5 .9740	K5P5 .9537		
K6P6 .9732	K5P6 .9587		
K6P7 .9693	K5P7 .9727		
K6P10 .9635	K5P8 .9413		
K6P11 .9505	K5P9 .9404		
	K5P10 .9776		
	K5P11 .9765		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	39	FLIGHT DATE 09/13/79	SPIKE POS. DX/KC	.8583	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0454
		FLIGHT NO.	0		BYPASS POS.	OPEN	K=CIRCUMF.	.6120
START	2126:48.001	INTERVAL	1.000	ENG. FALC RECUV	.9565	ENGINE M/M*	K=RADIAL	.1263
STOP	2127:17.997	ENG. LOK RPM	4611.	ENG. FALC MACH NO	.2855	COWL M/M*	K=DELTA	.0760
				COWL LIP RECUV	.9759	ADDITIVE M/M*	K=A	.2023
				MACH AT COWL LIP	.1866			

SPIKE R1		COWL R3		STAT XCW/KC= 5.4850	
STAT XCW/KC=	.0727	STAT XCW/KC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9720	S14	.9330	A36	.9596
R1P1	1.0023	K3P1	.9315	B36	.9516
R1P2	1.0026	K3P2	.9312	C36	.9422
R1P3	1.0028	K3P3	.9314	D36	.9354
R1P4	1.0027	K3P4	.9316	E36	.9299
R1P5	1.0025	K3P5	.9315	90 DEG RAKE	252 DEG RAKE
R1P6	1.0026	K3P6	.9312	A90	.9727
R1P7	1.0024	K3P7	.9872	H90	.9733
R1P8	1.0025	K3P8	.9538	C90	.9604
R1P9	1.0013	K3P9	.9875	D90	.9612
		K3P10	1.0024	E90	.9573
		K3P11	1.0036	144 DEG RAKE	324 DEG RAKE
		K3P12	1.0004	A144	.9730
		K3P13	1.0039	H144	.9698
		K3P14	1.0041	D144	.9548
		K3P15	1.0040	C144	.9473
		K3P16	1.0039	E144	.9398

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/KC=	1.4677	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.9544	S20	.9234	XCW/KC	P/PO	XCW/KC	P/PO
R2P1	.9600	R4P1	.9838	S1	.9763	S14	.9330
R2P2	.9662	R4P2	.9885	S2	.9727	S15	.9289
R2P3	.9774	R4P3	.9899	S11	.9727	S16	.9521
R2P4	.9888	R4P4	.9908	S12	.9727	S17	.9492
R2P5	.9901	R4P5	.9905	S13	.9727	S18	.9530
		R4P6	.9905	S3	.9407	S19	.9534
		R4P7	.9910	S4	.9407	S20	.9234
		R4P8	.9911	S5	.9427	S21	.9526
		R4P9	.9904	S6	.9897	S22	.9849
		R4P10	.9910	S7	1.0177	S23	.9016
		R4P11	.9907	S8	1.1497	S26	.9010
		R4P12	.9903	S9	1.3127		

SPIKE R6		COWL R5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.9016	S23	.9016
R6P1	.9508	K5P1	.9358
R6P2	.9650	K5P2	.9398
R6P3	.9656	K5P3	.9424
R6P4	.9701	K5P4	.9452
R6P5	.9712	K5P5	.9498
R6P6	.9705	K5P6	.9536
R6P9	.9656	K5P7	.9698
R6P10	.9593	K5P8	.9744
R6P11	.9469	K5P9	.9786
		K5P10	.9701
		K5P11	.9743

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	40	FLIGHT DATE	09/13/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	293.9 DEG K	MAX-MIN DIST	.0506
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9178 ATMOS	K-CIRCUMF.	.5627
START	2:29:00.001	INTERVAL	1.000	ENG. FALC RECOV	.9487	ENGINE M/M*	.5484	K-RADIAL	.1380
STOP	2:29:30.000	ENG CUM RPM	4824.	ENG. FALC MACH NO	.3667	COWL M/M*	.3347	K-DELTA	.0787
				COWL LIP RECOV	.9705	ADDITIVE M/M*	.2136	K-A	.2167
				MACH AT COWL LIP	.1484				

SPIKE M1		COWL M3		STAT XLM/MC= 5.4830	
STAT XCM/MC= .0728	STAT XCM/MC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9861	S14 .9224	A36 .9520	A198 .9649		
R1P1 1.0002	R3P1 .9211	B36 .9427	B198 .9659		
R1P2 1.0001	R3P2 .9209	C36 .9333	C198 .9635		
R1P3 1.0006	R3P3 .9204	D36 .9240	D198 .9625		
R1P4 1.0007	R3P4 .9207	E36 .9145	E198 .9311		
R1P5 1.0006	R3P5 .9198	40 DEG HAKE	252 DEG HAKE		
R1P6 1.0004	R3P6 .9203	A90 .9667	A252 .9571		
R1P7 1.0007	R3P7 .9434	H90 .9675	H252 .9503		
R1P8 1.0004	R3P8 .9459	C90 .9544	C252 .9465		
R1P9 .9990	R3P9 .9639	D90 .9531	D252 .9446		
	R3P10 1.0004	E90 .9500	E252 .9358		
	R3P11 1.0019	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9460	A144 .9668	A324 .9565		
	R3P13 1.0022	H144 .9647	H324 .9561		
	R3P14 1.0022	D144 .9476	D324 .9475		
	R3P15 1.0023	C144 .9384	C324 .9431		
	R3P16 1.0022	E144 .9243	E324 .9410		

SPIKE M2		COWL M4		STATIC PRESSURES			
STAT XCM/MC= 1.4678	STAT XCM/MC= 1.5380			SPIKE		COWL	
S9 .9467	S26 .9107	TAP	XCM/MC	P/PU	TAP	XCM/MC	P/PU
R2P1 .9534	R4P1 .9781	S1	.0702	.9903	S14	.0340	.9224
R2P2 .9586	R4P2 .9841	S2	.0728	.9661	S15	.1860	.9185
R2P3 .9730	R4P3 .9857	S11	.0728	.9662	S16	.4150	.9432
R2P4 .9852	R4P4 .9864	S12	.0728	.9656	S17	.8470	.9405
R2P5 .9859	R4P5 .9868	S13	.0728	.9670	S18	1.1740	.9448
	R4P6 .9867	S3	.1408	.9515	S19	1.4590	.9457
	R4P7 .9876	S4	.4068	.9268	S20	1.5400	.9107
	R4P8 .9878	S5	.6428	.9305	S21	1.8270	.9442
	R4P9 .9877	S6	.8848	.9310	S22	2.7840	.8665
	R4P10 .9875	S7	1.0178	.9346	S23	3.2960	.8857
	R4P11 .9872	S8	1.1448	.9389	S26	5.2890	.8854
	R4P12 .9862	S9	1.5128	.9467			
		S10	1.8488	.9443			
		S27	5.3000	.8906			
		S28	.6428	.9810			

SPIKE M6		COWL M5	
STAT XCM/MC= 3.5040	STAT XCM/MC= 3.3270		
S23 .8857	S23 .8857		
R6P1 .9422	R5P1 .9258		
R6P2 .9565	R5P2 .9280		
R6P3 .9592	R5P3 .9338		
R6P4 .9633	R5P4 .9357		
R6P5 .9654	R5P5 .9375		
R6P8 .9660	R5P6 .9465		
R6P9 .9619	R5P7 .9632		
R6P10 .9546	R5P8 .9754		
R6P11 .9360	R5P9 .9729		
	R5P10 .9666		
	R5P11 .9691		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	41	FLIGHT DATE 09/13/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	293.9 DEG K	MAX-MIN DIST	.0564
START	2131134.000	FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9178 ATMOS	K-CIRCUMF.	.5576
STOP	213213.999	INTERVAL 1.000	ENG. FAN REC'D	.9418	ENGINE M/M*	.5613	K-RADIAL	.1451
		ENG. LOW RPM 5030.	ENG. FAN MACH NO	.3254	COWL M/M*	.3527	K-DELTA	.0855
			COWL LIP REC'D	.9666	ADDITIVE M/M*	.2086	K-A	.2304
			MACH AT COWL LIP	.2105				

SPIKE R1		COWL R3		STAT XCM/KC= 5.4830	
STAT XCM/KC= .0728		STAT XCM/KC= .0700		36 DEG HAKE	198 DEG HAKE
S2	.9616	S14	.9128	A36	.9465
R1P1	1.0002	R3F1	.9110	M36	.9365
R1P2	.9999	R3P2	.9108	C36	.9226
R1P3	1.0004	R3P3	.9103	D36	.9148
R1P4	1.0005	R3P4	.9101	E36	.9097
R1P5	1.0004	R3P5	.9100	90 DEG HAKE	252 DEG HAKE
R1P6	1.0005	R3P6	.9102	A90	.9620
R1P7	1.0003	R3P7	.9819	M90	.9622
R1P8	1.0002	R3P8	.9389	C90	.9534
R1P9	.9989	R3P9	.9819	D90	.9466
		R3P10	1.0002	E90	.9428
		R3P11	1.0017	144 DEG HAKE	324 DEG HAKE
		R3P12	.9977	A144	.9628
		R3P13	1.0021	M144	.9601
		R3P14	1.0021	D144	.9408
		R3P15	1.0019	C144	.9306
		R3P16	1.0021	E144	.9193
				E324	.9308

SPIKE R2		COWL R4		STATIC PRESSURES	
STAT XCM/KC= 1.4678		STAT XCM/KC= 1.5389		SPIKE	
S9	.9392	S20	.8994	XCM/KC	P/PO
R2P1	.9470	R4P1	.9755	TAP	
R2P2	.9535	R4P2	.9826	S1	.0762
R2P3	.9678	R4P3	.9842	S2	.0726
R2P4	.9831	R4P4	.9849	S11	.0726
R2P5	.9843	R4P5	.9854	S12	.0726
		R4P6	.9852	S13	.0726
		R4P7	.9858	S3	.1408
		R4P8	.9855	S4	.4068
		R4P9	.9860	S5	.6426
		R4P10	.9856	S6	.8846
		R4P11	.9849	S7	1.0118
		R4P12	.9846	S8	1.1446
				S9	1.3128
				S10	1.6488
				S27	5.3000
				S28	.6426
					.9785

SPIKE R6		COWL R5	
STAT XCM/KC= 3.5040		STAT XCM/KC= 3.3270	
S23	.8707	S23	.8707
R6P1	.9353	R5P1	.9154
R6P2	.9528	R5P2	.9147
R6P3	.9549	R5P3	.9234
R6P4	.9590	R5P4	.9249
R6P5	.9615	R5P5	.9303
R6P6	.9599	R5P6	.9377
R6P7	.9553	R5P7	.9563
R6P8	.9491	R5P8	.9767
R6P9	.9305	R5P9	.9689
		R5P10	.9660
		R5P11	.9652

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	42	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	295.0 DEG K	MAX=MIN DIST	.0646
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	K=CIRCUMF.	.5288
START	2135125.003	INTERVAL	1.000	ENG.FACE RECUV	.9347	ENGINE M/M*	K=RADIAL	.1492
STOP	2135140.845	ENG CUM RPM	5245.	ENG.FACE MACH NO	.3502	COWL M/M*	K=DELTA	.0879
				COWL LIP RECUV	.9621	ADDITIVE M/M*	K=A	.2371
				MACH AT COWL LIP	.2217			

SPIKE R1		COWL R3		STAT XLM/RCL= 5.4830	
STAT XCM/RCL=	.0728	STAT XCM/RCL=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9570	S14	.9024	A36	.4372
R1P1	.9999	R3P1	.9002	H36	.4271
R1P2	1.0000	R3P2	.9002	L36	.4137
R1P3	1.0004	R3P3	.9002	D36	.4066
R1P4	1.0004	R3P4	.9002	E36	.3970
R1P5	1.0004	R3P5	.9004	90 DEG RAKE	252 DEG RAKE
R1P6	1.0004	R3P6	.9003	A90	.9504
R1P7	1.0005	R3P7	.4795	H90	.4574
R1P8	1.0005	R3P8	.4208	C90	.4405
R1P9	.9986	R3P9	.4730	D90	.4401
		R3P10	.4408	E90	.4388
		R3P11	1.0015	144 DEG RAKE	324 DEG RAKE
		R3P12	.4470	A144	.4515
		R3P13	1.0020	H144	.4541
		R3P14	1.0022	D144	.4525
		R3P15	1.0020	C144	.4214
		R3P16	1.0021	E144	.4105

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RCL=	1.4678	STAT XCM/RCL=	1.5380	SPIKE		COWL	
S9	.9317	S20	.8873	XCM/RCL	P/PU	1AP	XCM/RCL
R2P1	.9393	R4P1	.4744	S1	.0102	.9878	S14
R2P2	.9455	R4P2	.4817	S2	.0120	.9510	S15
R2P3	.9640	R4P3	.4824	S11	.0128	.9514	S16
R2P4	.9804	R4P4	.4824	S12	.0120	.9512	S17
R2P5	.9823	R4P5	.4831	S13	.0128	.9586	S18
		R4P6	.4832	S3	.1408	.9391	S19
		R4P7	.4842	S4	.4068	.9085	S20
		R4P8	.4839	S5	.0420	.9128	S21
		R4P9	.4832	S6	.0848	.9136	S22
		R4P10	.4835	S7	1.0118	.9165	S23
		R4P11	.4827	S8	1.1498	.9227	S26
		R4P12	.4818	S9	1.5128	.9317	
				S10	1.8488	.9248	
				S27	5.3000	.8668	
				S28	.0428	.9762	

SPIKE R6		COWL R5	
STAT XCM/RCL=	3.5040	STAT XCM/RCL=	3.3270
S23	.8554	S23	.8554
R6P1	.9274	R5P1	.9000
R6P2	.9454	R5P2	.9004
R6P3	.9499	R5P3	.9047
R6P4	.9528	R5P4	.9152
R6P5	.9567	R5P5	.9222
R6P6	.9552	R5P6	.9317
R6P7	.9497	R5P7	.9512
R6P10	.9422	R5P8	.9657
R6P11	.9221	R5P9	.9652
		R5P10	.9604
		R5P11	.9546

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	43	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	295.0 DEG K	MAX-MIN DIST	.0684
START	2:37:30.000	FLIGHT NO. 0	HYPASS POS.	OPEN	AMBIENT PRESS	.9174 ATMOS	K-CIRCUMF.	.4930
STOP	2:37:54.99H	INTERVAL 1.000	ENG. FACE RECUV	.9286	ENGINE M/M*	.5936	K-RADIAL	.1486
		ENG COK RPM 5473.	ENG. FACE MACH NO	.3697	COWL M/M*	.3814	K-DELTA	.0867
			COWL LIP RECUV	.9587	ADDITIVE M/M*	.2122	K-A	.2353
			MACH AT COWL LIP	.2307				

SPIKE R1		COWL R3		STAT XLM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XLM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9535	S14	.8941	A36	.9333 A198
R1P1	.9999	R3P1	.8925	B36	.9205 B198
R1P2	.9999	R3P2	.8921	C36	.9054 C198
R1P3	1.0004	R3P3	.8920	D36	.8976 D198
R1P4	1.0004	R3P4	.8919	E36	.8901 E198
R1P5	1.0004	R3P5	.8917	90 DEG HAKE	252 DEG HAKE
R1P6	1.0005	R3P6	.8915	A90	.9526 A252
R1P7	1.0004	R3P7	.9784	H90	.9524 H252
R1P8	1.0003	R3P8	.9181	C90	.9420 C252
R1P9	.9988	R3P9	.9682	D90	.9345 D252
		R3P10	.9964	E90	.9303 E252
		R3P11	1.0016	144 DEG HAKE	324 DEG HAKE
		R3P12	.9971	A144	.9536 A324
		R3P13	1.0020	H144	.9493 H324
		R3P14	1.0022	D144	.9246 D324
		R3P15	1.0021	C144	.9121 C324
		R3P16	1.0021	E144	.9003 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.467H	STAT XLM/RC=	1.5380	SPIKE		COWL	
S9	.925H	S20	.8752	XCM/RC	P/PO	XCM/RC	P/PO
R2P1	.9331	R4P1	.9712	S1	.90762 .9873	S14	.0340 .8941
R2P2	.9413	R4P2	.9788	S2	.9728 .9535	S15	.1860 .8889
R2P3	.9592	R4P3	.9806	S11	.9728 .9548	S16	.4150 .9228
R2P4	.9787	R4P4	.9818	S12	.9728 .9523	S17	.8470 .9182
R2P5	.9822	R4P5	.9819	S13	.9728 .9555	S18	1.1740 .9239
		R4P6	.9826	S3	.140H .9347	S19	1.4590 .9253
		R4P7	.9822	S4	.4008 .9008	S20	1.5400 .8752
		R4P8	.9827	S5	.642H .9050	S21	1.8270 .9237
		R4P9	.9826	S6	.884H .9062	S22	2.7840 .8161
		R4P10	.9821	S7	1.0178 .9100	S23	3.2980 .8396
		R4P11	.9818	S8	1.1448 .9162	S26	5.2890 .8409
		R4P12	.9806	S9	1.5120 .9258		
				S10	1.848H .9235		
				S27	5.3000 .8469		
				S28	.642H .9744		

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XLM/RC=	3.3270
S23	.839H	S23	.839H
R6P1	.9203	R5P1	.8936
R6P2	.9392	R5P2	.8988
R6P3	.9422	R5P3	.9051
R6P4	.9488	R5P4	.9070
R6P5	.952H	R5P5	.9144
R6P8	.9490	R5P6	.9225
R6P9	.9437	R5P7	.9424
R6P10	.9354	R5P8	.9642
R6P11	.9132	R5P9	.9617
		R5P10	.9580
		R5P11	.9540

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	44	FLIGHT DATE	09/13/79	SPIKE POS. OX/HC	.8582	AMBIENT TEMP	295.0 DEG K	MAX-MIN DIST	.0758
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9175 ATMOS	K-CIRCUMF.	.4652
START	2:40:4.001	INTERVAL	1.000	ENG. FALC RECOV	.9217	ENGINE M/M*	.6102	K-RADIAL	.1529
STOP	2:40:133.999	ENG CUR RPM	5660.	ENG. FALC MACH NO	.3406	COWL M/M*	.3978		
				COWL LIP RECOV	.9543	ADDITIVE M/M*	.2124	K-DELTA	.0886
				MACH AT COWL LIP	.2425			K-A	.2415

SPIKE H1		COWL H3		STAT XCW/HC= 5.4830	
STAT XCW/HC= .0728	STAT XCW/HC= .0700	30 DEG HAKE	148 DEG HAKE		
S2 .9487	S14 .8834	A30 .9200	A198 .9416		
R1P1 .9996	R3P1 .8813	H30 .9124	H198 .9403		
R1P2 .9998	R3P2 .8815	C30 .8964	C198 .9447		
R1P3 1.0003	R3P3 .8811	D30 .8834	D198 .9179		
R1P4 1.0003	R3P4 .8813	E30 .8746	E198 .8943		
R1P5 1.0002	R3P5 .8809	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0005	R3P6 .8813	A90 .9445	A252 .9319		
R1P7 .9999	R3P7 .9765	H90 .9474	H252 .9268		
R1P8 1.0000	R3P8 .9101	C90 .9340	C252 .9217		
R1P9 .9982	R3P9 .9601	D90 .9275	D252 .9162		
	R3P10 .9976	E90 .9204	E252 .9039		
	R3P11 1.0014	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9965	A144 .9445	A324 .9337		
	R3P13 1.0021	H144 .9444	H324 .9356		
	R3P14 1.0021	D144 .9180	D324 .9231		
	R3P15 1.0022	C144 .9081	C324 .9131		
	R3P16 1.0023	E144 .8982	E324 .9038		

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCW/HC= 1.4678	STAT XCW/HC= 1.5380	SPIKE	ALW/HL	P/PU	IAP	COWL	P/PU
S9 .9190	S20 .8832						
R2P1 .9273	R4P1 .9607	TAP					
R2P2 .9355	R4P2 .9761	S1	.9702	.9857	S14	.0340	.8834
R2P3 .9571	R4P3 .9741	S2	.9720	.9487	S15	.1860	.8796
R2P4 .9766	R4P4 .9744	S11	.9728	.9500	S16	.4150	.9148
R2P5 .9791	R4P5 .9801	S12	.9728	.9481	S17	.8470	.9106
	R4P6 .9806	S13	.9728	.9512	S18	1.1740	.9165
	R4P7 .9809	S3	.9468	.9282	S19	1.4590	.9181
	R4P8 .9807	S4	.9068	.8909	S20	1.5400	.8632
	R4P9 .9807	S5	.8428	.8958	S21	1.8270	.9161
	R4P10 .9801	S6	.8848	.8971	S22	2.7840	.7979
	R4P11 .9802	S7	1.0178	.9019	S23	3.2980	.8230
	R4P12 .9784	S8	1.1448	.9085	S26	5.2890	.8246
		S9	1.5128	.9190			
		S10	1.6488	.9166			
		S27	5.3000	.8327			
		S28	.6428	.9719			

SPIKE H6		COWL H5	
STAT XCW/HC= 3.5046	STAT XCW/HC= 3.3270		
S23 .8230	S23 .8230		
R6P1 .9124	R5P1 .8835		
R6P2 .9344	R5P2 .8844		
R6P3 .9364	R5P3 .8933		
R6P4 .9441	R5P4 .8971		
R6P5 .9440	R5P5 .9037		
R6P8 .9454	R5P6 .9130		
R6P9 .9375	R5P7 .9403		
R6P10 .9284	R5P8 .9609		
R6P11 .9026	R5P9 .9574		
	R5P10 .9543		
	R5P11 .9440		

YF-12 INLET NOISE SUPPRESSION STUDY

HUN	45	FLIGHT DATE 09/15/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.0796
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9178 ATMOS	K-CIRCUMF.	.4361
START	2:42:25.000	INTERVAL 1.000	ENG. FACE RECUV	.9187	ENGINE M/M	.6310	K-RADIAL	.1466
STOP	2:42:55.000	ENG LOU RPM 5856.	ENG. FACE MACH NO	.3483	COWL M/M	.4047		
			COWL LIP RECUV	.9532	ADDITIVE M/M	.2264	K-DELTA	.0888
			MACH AT COWL LIP	.2473			K-A	.2353

SPIKE R1		COWL K3		STAT XCM/MCE 5.4830	
STAT XCM/MCE	.0728	STAT XCM/MCE	.0700	56 DEG MAKE	198 DEG MAKE
S2	.9471	S14	.8744	A36	.9235 A198
R1P1	.9996	K3P1	.8777	M36	.9096 H198
R1P2	.9944	K3P2	.8776	C36	.8433 C198
R1P3	1.0000	K3P3	.8772	U36	.8827 D198
R1P4	.9999	K3P4	.8773	E36	.8750 E198
R1P5	1.0001	K3P5	.8769	90 DEG MAKE	252 DEG MAKE
R1P6	1.0000	K3P6	.8774	A90	.9472 A252
R1P7	1.0001	K3P7	.9755	H90	.9482 H252
R1P8	1.0000	K3P8	.9136	C90	.9327 C252
R1P9	.9981	K3P9	.9720	U90	.9238 U252
		K3P10	.9993	E90	.9187 E252
		K3P11	1.0012	144 DEG MAKE	324 DEG MAKE
		K3P12	.9962	A144	.9464 A324
		K3P13	1.0018	H144	.9424 H324
		K3P14	1.0017	U144	.9144 U324
		K3P15	1.0014	C144	.9054 C324
		K3P16	1.0016	E144	.8465 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/MCE	1.4678	STAT XCM/MCE	1.5380	SPIKE		COWL	
S9	.9160	S20	.8546	XCM/MCE	P/PO	IAP	XCM/MCE P/PO
R2P1	.9248	K4P1	.9604	TAP			
R2P2	.9334	K4P2	.9753	S1	.0702	S14	.0340 .8799
R2P3	.9534	K4P3	.9770	S2	.0726	S15	.1860 .8758
R2P4	.9752	K4P4	.9786	S11	.0726	S16	.4150 .9129
R2P5	.9783	K4P5	.9791	S12	.0726	S17	.8470 .9076
		K4P6	.9792	S13	.0726	S18	1.1740 .9133
		K4P7	.9800	S3	.1406	S19	1.4540 .9155
		K4P8	.9796	S4	.4066	S20	1.5400 .8596
		K4P9	.9800	S5	.6426	S21	1.8270 .9135
		K4P10	.9797	S6	.8846	S22	2.7840 .7905
		K4P11	.9787	S7	1.0176	S23	3.2960 .8164
		K4P12	.9779	S8	1.1446	S26	5.2890 .8186
				S9	1.5126		
				S10	1.8486		
				S27	5.3000		
				S28	.6426		

SPIKE R6		COWL K5	
STAT XCM/MCE	3.5040	STAT XCM/MCE	3.3270
S23	.8164	S23	.8164
K6P1	.9078	K5P1	.8802
K6P2	.9319	K5P2	.8854
K6P3	.9343	K5P3	.8407
K6P4	.9415	K5P4	.8934
K6P5	.9464	K5P5	.8447
K6P8	.9446	K5P6	.9126
K6P9	.9385	K5P7	.9375
K6P10	.9276	K5P8	.9588
K6P11	.9016	K5P9	.9586
		K5P10	.9525
		K5P11	.9442

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	46	FLIGHT DATE 09/13/79	SPKLE POS. DX/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.0854
		FLIGHT NO.	0				K=CIRCUMF.	.4285
START	2:45:11.003	INTERVAL	1.000	ENG. FACE RECOV	.9155	ENGINE M/M*	K-RADIAL	.1488
STOP	2:45:31.000	ENG CLK RPM	5965.	ENG. FACE MACH NO	.4142	COWL M/M*	K=DELTA	.0997
				COWL LIP RECOV	.9510	ADDITIVE M/M*	K=A	.2485
				MACH AT COWL LIP	.2544			

SPIKE R1		COWL R3		STAT XCM/KC= 5.4830	
STAT	XCM/KC= .0728	STAT	XCM/KC= .0700	30 DEG RAKE	198 DEG RAKE
S2	.9446	S14	.8736	A36	.9236
R1P1	.9997	R3P1	.8711	M36	.9071
R1P2	.9997	R3P2	.8706	C36	.8882
R1P3	1.0002	R3P3	.8709	D36	.8780
R1P4	1.0002	R3P4	.8709	E36	.8682
R1P5	1.0002	R3P5	.8709	90 DEG RAKE	252 DEG RAKE
R1P6	1.0000	R3P6	.8712	A90	.9465
R1P7	1.0002	R3P7	.9729	M90	.9453
R1P8	.9997	R3P8	.9115	C90	.9317
R1P9	.9983	R3P9	.9728	D90	.9212
		R3P10	.9994	E90	.9182
		R3P11	1.0015	144 DEG RAKE	324 DEG RAKE
		R3P12	.9960	A144	.9456
		R3P13	1.0021	M144	.9417
		R3P14	1.0022	C144	.9118
		R3P15	1.0022	D144	.9018
		R3P16	1.0022	E144	.8919

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCM/KC= 1.4678	STAT	XCM/KC= 1.5380	SPIKE			
S9	.9117	S20	.8528	XCM/KC	P/P0	TAP	COWL
R2P1	.9217	R4P1	.9655				XCM/KC
R2P2	.9319	R4P2	.9751	TAP			P/P0
R2P3	.9533	R4P3	.9772	S1	.0762	.9843	S14
R2P4	.9761	R4P4	.9779	S2	.0728	.9446	S15
R2P5	.9784	R4P5	.9784	S11	.0728	.9456	S16
		R4P6	.9786	S12	.0728	.9448	S17
		R4P7	.9788	S13	.0728	.9468	S18
		R4P8	.9790	S3	.1408	.9220	S19
		R4P9	.9797	S4	.4068	.8816	S20
		R4P10	.9794	S5	.8428	.8870	S21
		R4P11	.9794	S6	.8896	.8882	S22
		R4P12	.9777	S7	1.0178	.8924	S23
				S8	1.1494	.8997	S26
				S9	1.5120	.9117	
				S10	1.8488	.9093	
				S27	5.3000	.8162	
				S28	.8428	.9647	

SPIKE R6		COWL R5	
STAT	XCM/KC= 3.5040	STAT	XCM/KC= 3.3270
S23	.8068	S23	.8068
R6P1	.9043	R5P1	.8713
R6P2	.9295	R5P2	.8777
R6P3	.9328	R5P3	.8858
R6P4	.9404	R5P4	.8867
R6P5	.9440	R5P5	.8945
R6P6	.9444	R5P6	.9083
R6P9	.9376	R5P7	.9338
R6P10	.9289	R5P8	.9581
R6P11	.8982	R5P9	.9551
		R5P10	.9511
		R5P11	.9485

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	47	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	297.8 DEG K	MAX-MIN DIST	.0928
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	K-CIRCUMF.	.4034
START	2146150.000	INTERVAL	1.000	ENG. FACE RECUV	.9110	ENGINE M/M*	K-RADIAL	.1529
STOP	2147119.999	ENG CUM RPM	6090.	ENG. FACE MACH NO	.4285	COWL M/M*	K-DELTA	.0961
				COWL LIP RECUV	.9499	ADDITIVE M/M*	K-A	.2489
				MACH AT COWL LIP	.2640			

SPIKE R1		COWL R3		STAT XLM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9422	S14	.8678	A36	.9176 A198
R1P1	1.0001	R3P1	.8657	R36	.9034 R198
R1P2	1.0001	R3P2	.8652	C36	.8838 C198
R1P3	1.0007	R3P3	.8649	U36	.8703 U198
R1P4	1.0007	R3P4	.8651	E36	.8598 E198
R1P5	1.0006	R3P5	.8650	90 DEG RAKE	252 DEG RAKE
R1P6	1.0007	R3P6	.8654	A90	.9428 A252
R1P7	1.0008	R3P7	.9726	R90	.9443 R252
R1P8	1.0276	R3P8	.9367	C90	.9218 C252
R1P9	.9985	R3P9	.9764	U90	.9108 U252
		R3P10	1.0007	E90	.9123 E252
		R3P11	1.0016	144 DEG RAKE	324 DEG RAKE
		R3P12	.9967	A144	.9430 A324
		R3P13	1.0023	R144	.9307 R324
		R3P14	1.0024	C144	.9073 C324
		R3P15	1.0023	U144	.8972 U324
		R3P16	1.0025	E144	.8871 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9073	S20	.8445	XCM/RC	P/PU	XCM/RC	P/PU
R2P1	.9166	R4P1	.9644	TAP		TAP	
R2P2	.9273	R4P2	.9735	S1	.9762	S14	.0340
R2P3	.9508	R4P3	.9758	S2	.9728	S15	.1860
R2P4	.9758	R4P4	.9769	S11	.9728	S16	.4150
R2P5	.9771	R4P5	.9774	S12	.9728	S17	.8470
		R4P6	.9786	S13	.9728	S18	1.1740
		R4P7	.9791	S3	.9108	S19	1.4590
		R4P8	.9795	S4	.8760	S20	1.5400
		R4P9	.9797	S5	.8813	S21	1.8270
		R4P10	.9765	S6	.8848	S22	2.7840
		R4P11	.9775	S7	1.0178	S23	3.2980
		R4P12	.9769	S8	1.1448	S26	5.2890
				S9	1.5128		.7973
				S10	1.8488		.9046
				S27	5.3060		.8061
				S28	.6428		.9687

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3276
S23	.7950	S23	.7950
R6P1	.8974	R5P1	.8662
R6P2	.9227	R5P2	.8711
R6P3	.9295	R5P3	.8777
R6P4	.9366	R5P4	.8798
R6P5	.9411	R5P5	.8864
R6P6	.9406	R5P6	.9031
R6P9	.9339	R5P7	.9350
R6P10	.9234	R5P8	.9567
R6P11	.8457	R5P9	.9536
		R5P10	.9505
		R5P11	.9459

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	48	FLIGHT DATE 09/13/79	SPKRE POS. DX/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.0971
		FLIGHT NO.	0	BYPASS POS.	OPEN	.9186 ATMOS	K-CIRCUMF.	.3730
START	3: 4120.000	INTERVAL	1.000	ENG. FACE RECUV	.9059	ENGINE M/M*	K-RADIAL	.1519
STOP	3: 4149.999	ENG LOK RPM	6206.	ENG. FACE MACH NO	.4417	COWL M/M*	K-DELTA	.0916
				COWL LIP RECUV	.9464	ADDITIVE M/M*	K-A	.2435
				MACH AT COWL LIP	.2668			

SPIKE K1		COWL K3		STAT XLM/KCE 5.4830	
STAT XCM/KCE	.0728	STAT XCM/KCE	.0700	36 DEG KAKE	198 DEG KAKE
S2	.9388	S14	.8627	A36	.9142
R1P1	.9990	R3P1	.8549	H36	.8478
R1P2	.9425	R3P2	.8543	C36	.8774
R1P3	1.0003	R3P3	.8544	D36	.8646
R1P4	.9998	R3P4	.8544	E36	.8531
R1P5	.9967	R3P5	.8543	90 DEG KAKE	252 DEG KAKE
R1P6	1.0002	R3P6	.8546	A90	.9405
R1P7	.9495	R3P7	.9703	H90	.9411
R1P8	.9469	R3P8	.9113	C90	.9244
R1P9	.9471	R3P9	.9789	D90	.9135
		R3P10	1.0006	E90	.9084
		R3P11	1.0021	144 DEG KAKE	324 DEG KAKE
		R3P12	.9454	A144	.9410
		R3P13	1.0021	H144	.9305
		R3P14	1.0020	D144	.9021
		R3P15	1.0021	C144	.8802
		R3P16	1.0022	E144	.8742

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCM/KCE	1.4678	STAT XLM/KCE	1.5380	SPKRE		COWL	
S9	.9019	S20	.8413	XCM/KC	P/PO	XCM/KC	P/PO
K2P1	.9124	K4P1	.9637	TAP		TAP	
K2P2	.9236	K4P2	.9724	S1	.80762	S14	.0340
K2P3	.9500	K4P3	.9746	S2	.80728	S15	.1860
K2P4	.9729	K4P4	.9755	S11	.80728	S16	.4150
K2P5	.9742	K4P5	.9762	S12	.80728	S17	.8470
		K4P6	.9764	S13	.80728	S18	1.1740
		K4P7	.9770	S3	.1408	S19	1.4590
		K4P8	.9777	S4	.4068	S20	1.5400
		K4P9	.9776	S5	.8428	S21	1.8270
		K4P10	.9770	S6	.8648	S22	2.7840
		K4P11	.9765	S7	1.0170	S23	3.2980
		K4P12	.9756	S8	1.1448	S26	5.2890

SPIKE K6		COWL K5	
STAT XCM/KCE	3.5040	STAT XLM/KCE	3.3270
S23	.7853	S23	.7853
R6P1	.8935	R6P1	.8571
R6P2	.9200	R6P2	.8634
R6P3	.9243	R6P3	.8731
R6P4	.9321	R6P4	.8752
R6P5	.9378	R6P5	.8864
R6P6	.9364	R6P6	.8964
R6P9	.9304	R6P7	.9254
R6P10	.9203	R6P8	.9507
R6P11	.8874	R6P9	.9504
		R6P10	.9484
		R6P11	.9433

		YF-12 INLET NOISE SUPPRESSION STUDY							
RUN	49	FLIGHT DATE	09/13/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.1005
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9179 ATMOS	K-CIRCUMF.	.3532
START	3: 0155.000	INTERVAL	1.000	ENG. FACE RECUV	.9040	ENGINE M/M*	.7004	K-RADIAL	.1514
STOP	3: 7125.000	ENG CUM RPM	6298.	ENG. FACE MACH NO	.4549	COWL M/M*	.4395	K-DELTA	.0883
				COWL LIP RECUV	.9460	ADDITIVE M/M*	.2609	K-A	.2397
				MACH AT COWL LIP	.2728				

SPIKE K1		COWL K3		STAT XLW/RC= 5.4830	
STAT	XCW/RC= .0728	STAT	XCW/RC= .0700	36 DEG	HAKE
S2	.9380	S14	.8567	A36	.9126
K1P1	1.0015	K3P1	.8560	K36	.8467
K1P2	1.0002	K3P2	.8556	C36	.8744
K1P3	1.0003	K3P3	.8554	U36	.8612
K1P4	1.0002	K3P4	.8554	E36	.8498
K1P5	1.0003	K3P5	.8552	90 DEG	HAKE
K1P6	1.0003	K3P6	.8501	A90	.9401
K1P7	1.0002	K3P7	.9713	K90	.9407
K1P8	1.0002	K3P8	.9153	C90	.9238
K1P9	.9979	K3P9	.9846	U90	.9126
		K3P10	1.0017	E90	.9073
		K3P11	1.0024	144 DEG	HAKE
		K3P12	.9956	A144	.9394
		K3P13	1.0028	K144	.9354
		K3P14	1.0026	U144	.9018
		K3P15	1.0027	C144	.8873
		K3P16	1.0030	E144	.8728

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT	XCW/RC= 1.4676	STAT	XCW/RC= 1.5386	SPIKE		COWL	
S9	.8994	S20	.8355	XLW/RC	P/P0	XLW/RC	P/P0
K2P1	.9105	K4P1	.9606	S1	.9026	S14	.0340
K2P2	.9252	K4P2	.9710	S2	.9380	S15	.1860
K2P3	.9489	K4P3	.9734	S11	.9385	S16	.4150
K2P4	.9729	K4P4	.9751	S12	.9388	S17	.8470
K2P5	.9685	K4P5	.9762	S13	.9408	S18	1.1740
		K4P6	.9761	S3	.9120	S19	1.4590
		K4P7	.9763	S4	.9062	S20	1.5400
		K4P8	.9763	S5	.8715	S21	1.8270
		K4P9	.9766	S6	.8848	S22	2.7840
		K4P10	.9767	S7	1.0178	S23	3.2980
		K4P11	.9757	S8	1.1446	S26	5.2890
		K4P12	.9750	S9	1.5128		.7782

SPIKE K6		COWL K5	
STAT	XCW/RC= 3.5040	STAT	XCW/RC= 3.3270
S23	.7763	S23	.7763
K6P1	.8867	K5P1	.8538
K6P2	.9170	K5P2	.8574
K6P3	.9217	K5P3	.8688
K6P4	.9314	K5P4	.8704
K6P5	.9367	K5P5	.8748
K6P6	.9392	K5P6	.8973
K6P7	.9319	K5P7	.9265
K6P10	.9149	K5P8	.9526
K6P11	.8928	K5P9	.9508
		K5P10	.9454
		K5P11	.9430

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	50	FLIGHT DATE 09/13/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	297.8 DEG K	MAX-MIN DIST	.1000
		FLIGHT NO.	0		AMBIENT PRESS	.9185 ATMOS	K-CIRCUMF.	.3369
START	3: 9:30.003	INTERVAL	1.000	ENG. FACE RECOV	.8499	ENGINE M/M*	K-RADIAL	.1927
STOP	3: 9:59.999	ENG CUR RPM	6382.	ENG. FACE MACH NO	.4637	COWL M/M*		
				COWL LIP RECOV	.9436	ADDITIVE M/M*		
				MACH AT COWL LIP	.2777		K-DELTA	.0625
							K-A	.2353

SPIKE M1		COWL M3		STAT XCM/KC= 5.4830	
STAT XCM/KC= .0728	STAT XCM/KC= .0700	36 DEG RAKE	148 DEG RAKE		
S2 .9355	S14 .8534	A36 .9100	A148 .9254		
R1P1 .9991	R3P1 .8512	H36 .8411	H148 .9321		
R1P2 .9988	R3P2 .8510	C36 .8684	C148 .9280		
R1P3 .9995	R3P3 .8513	D36 .8555	D148 .8867		
R1P4 .9996	R3P4 .8509	E36 .8433	E148 .8609		
R1P5 .9996	R3P5 .8510	90 DEG RAKE	252 DEG RAKE		
R1P6 .9997	R3P6 .8516	A90 .9387	A252 .9178		
R1P7 .9999	R3P7 .9681	H90 .9387	H252 .9048		
R1P8 .9993	R3P8 .9157	C90 .9193	C252 .8936		
R1P9 .9974	R3P9 .9852	D90 .9074	D252 .8877		
	R3P10 1.0015	E90 .9043	E252 .8731		
	R3P11 1.0016	144 DEG RAKE	324 DEG RAKE		
	R3P12 .9950	A144 .9372	A324 .9183		
	R3P13 1.0022	H144 .9336	H324 .9191		
	R3P14 1.0024	D144 .8461	C324 .8949		
	R3P15 1.0020	C144 .8813	D324 .8856		
	R3P16 1.0024	E144 .8665	E324 .8726		

SPIKE M2		COWL M4		STATIC PRESSURES			
STAT XCM/KC= 1.4678	STAT XCM/KC= 1.5380			SPIKE		COWL	
S9 .8956	S20 .8297	TAP	XCM/KC	P/PO	IAP	XCM/KC	P/PO
R2P1 .9073	R4P1 .9577	S1	.0762	.9816	S14	.0340	.8534
R2P2 .9211	R4P2 .9645	S2	.0728	.9355	S15	.1860	.8477
R2P3 .9463	R4P3 .9734	S11	.0728	.9357	S16	.4150	.8956
R2P4 .9720	R4P4 .9741	S12	.0728	.9376	S17	.8470	.8866
R2P5 .9737	R4P5 .9734	S13	.0728	.9381	S18	1.1740	.8942
	R4P6 .9741	S3	.1408	.9090	S19	1.4590	.8955
	R4P7 .9755	S4	.4068	.8620	S20	1.5400	.8297
	R4P8 .9752	S5	.6428	.8676	S21	1.8270	.8929
	R4P9 .9747	S6	.8848	.8641	S22	2.7840	.7358
	R4P10 .9740	S7	1.0178	.8735	S23	3.2960	.7674
	R4P11 .9740	S8	1.1498	.8816	S26	5.2890	.7703
	R4P12 .9735	S9	1.5128	.8956			
		S10	1.8488	.8924			
		S27	5.3000	.7749			
		S28	.6428	.9644			

SPIKE M6		COWL M5	
STAT XCM/KC= 3.5040	STAT XCM/KC= 3.3270		
S23 .7674	S23 .7674		
R6P1 .8844	R5P1 .8480		
R6P2 .9135	R5P2 .8542		
R6P3 .9194	R5P3 .8601		
R6P4 .9286	R5P4 .8662		
R6P5 .9337	R5P5 .8752		
R6P8 .9367	R5P6 .8843		
R6P9 .9300	R5P7 .9252		
R6P10 .9158	R5P8 .9518		
R6P11 .8857	R5P9 .9446		
	R5P10 .9457		
	R5P11 .9427		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	51	FLIGHT DATE 09/13/79	SPIKE POS. OX/RC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.1086
START	3:14:10.002	FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9172 ATMUS	K-CIRCUMF.	.3256
STOP	3:14:39.99H	INTERVAL 1.000	ENG. FACE RECOV	.8480	ENGINE M/M*	.7256	K-RADIAL	.1475
		ENG LUN RPM 6481.	ENG. FACE MACH NO	.471H	COWL M/M*	.4508	K-DELTA	.0852
			COWL LIP RECOV	.9438	ADDITIVE M/M*	.2748	K-A	.2327
			MACH AT COWL LIP	.2812				

SPIKE R1		COWL R3		STAT XLM/RC= 5.4830	
STAT XCM/RC= .072H		STAT XCM/RC= .0700		36 DEG MAKE	198 DEG MAKE
S2 .9353	S14 .8514	A36 .9108	A198 .9271		
R1P1 .9999	R3P1 .8491	H36 .8406	H198 .9304		
R1P2 1.0000	R3P2 .8488	C36 .8682	C198 .9274		
R1P3 1.0010	R3P3 .8489	D36 .8522	D198 .8873		
R1P4 1.000H	R3P4 .8487	E36 .8417	E198 .8585		
R1P5 1.0009	R3P5 .8488	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0007	R3P6 .8489	A90 .9369	A252 .9117		
R1P7 1.0010	R3P7 .9643	H90 .9393	H252 .9014		
R1P8 1.0008	R3P8 .9172	C90 .9181	C252 .8924		
R1P9 .998H	R3P9 .9844	D90 .9042	D252 .8864		
	R3P10 1.0032	E90 .9006	E252 .8710		
	R3P11 1.0033	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9967	A144 .9347	A324 .9136		
	R3P13 1.0035	H144 .9320	H324 .9197		
	R3P14 1.0038	D144 .8450	D324 .8980		
	R3P15 1.0036	C144 .8745	C324 .8807		
	R3P16 1.0040	E144 .8641	E324 .8659		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC= 1.467H		STAT XCM/RC= 1.53H0		SPIKE		COWL	
S9 .8941	S20 .8263	TAP		XCM/RC	P/PO	TAP	
R2P1 .9053	R4P1 .9604	S1	.0762	.9822	S14	.0340	.8514
R2P2 .9198	R4P2 .9707	S2	.0728	.9353	S15	.1860	.8454
R2P3 .9463	R4P3 .9757	S11	.0728	.9364	S16	.4150	.8947
R2P4 .9727	R4P4 .974H	S12	.0728	.9365	S17	.8470	.8850
R2P5 .9746	R4P5 .9759	S13	.0728	.9365	S18	1.1740	.8926
	R4P6 .9765	S3	.1408	.907H	S19	1.4590	.8937
	R4P7 .9767	S4	.4068	.8545	S20	1.5400	.8263
	R4P8 .9770	S5	.6426	.8651	S21	1.8270	.8915
	R4P9 .9774	S6	.884H	.8670	S22	2.7840	.72H9
	R4P10 .9769	S7	1.017H	.8714	S23	3.2980	.7624
	R4P11 .9761	S8	1.144H	.8802	S26	5.2890	.7644
	R4P12 .9755	S9	1.512H	.8941			
		S10	1.848H	.8919			
		S27	5.3060	.7746			
		S2H	.642H	.9650			

SPIKE R6		COWL R5	
STAT XCM/RC= 3.5040		STAT XCM/RC= 3.3270	
S23 .7624	S23 .7624		
R6P1 .8826	R5P1 .8434		
R6P2 .9134	R5P2 .8511		
R6P3 .9183	R5P3 .8541		
R6P4 .9285	R5P4 .8657		
R6P5 .9336	R5P5 .8710		
R6P8 .9350	R5P6 .8844		
R6P9 .9285	R5P7 .9237		
R6P10 .9177	R5P8 .9521		
R6P11 .8H55	R5P9 .94H7		
	R5P10 .9435		
	R5P11 .940H		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	52	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.1132
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9181 ATMOS	K-CIRCUMF.	.3222
START	3:16:50.000	INTERVAL	1.000	ENG. FALLE RECUV	.8946	ENGINE M/M*	.7363	K-RADIAL	.1478
STOP	3:17:19.997	ENG LOK RPM	6586.	ENG. FACE MACH NO	.4810	COWL M/M*	.4512	K-DELTA	.0920
				COWL LIP RECUV	.9406	ADDITIVE M/M*	.2851	K-A	.2398
				MACH AT COWL LIP	.2826				

SPIKE R1		COWL R3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG MAKE	148 DEG MAKE
S2	.9324	S14	.8473	A36	.4056 A198 .9263
R1P1	.9992	R3P1	.8447	H36	.8073 H198 .9305
R1P2	.9992	R3P2	.8444	L36	.8041 C198 .9286
R1P3	1.0001	R3P3	.8447	D36	.8483 D198 .8818
R1P4	.9907	R3P4	.8445	E36	.8343 E198 .8573
R1P5	.9995	R3P5	.8444	90 DEG MAKE	252 DEG MAKE
R1P6	.9901	R3P6	.8445	A90	.4345 A252 .9060
R1P7	1.0003	R3P7	.4061	H90	.4348 H252 .8977
R1P8	.9999	R3P8	.4046	C90	.4150 C252 .8842
R1P9	.9931	R3P9	.4858	D90	.4013 D252 .8826
		R3P10	1.0021	E90	.8986 E252 .8669
		R3P11	1.0023	144 DEG MAKE	324 DEG MAKE
		R3P12	.9453	A144	.4355 A324 .9105
		R3P13	1.0028	H144	.9316 H324 .9185
		R3P14	1.0029	D144	.8906 C324 .8950
		R3P15	1.0029	E144	.8753 D324 .8754
		R3P16	1.0030	E144	.8600 E324 .8559

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE			
S9	.8902	S20	.8205	XCW/KC	P/P0	IAP	COWL XCW/KC P/P0
R2P1	.9020	R4P1	.9573	TAP			
R2P2	.9134	R4P2	.9689	S1	.0762 .9811	S14	.0340 .8473
R2P3	.9433	R4P3	.9717	S2	.0728 .9324	S15	.1860 .8412
R2P4	.9708	R4P4	.9735	S11	.0728 .9338	S16	.4150 .8908
R2P5	.9739	R4P5	.9746	S12	.0728 .9335	S17	.8470 .8808
		R4P6	.9752	S13	.0728 .9359	S18	1.1740 .8892
		R4P7	.9763	S3	.1408 .9052	S19	1.4590 .8901
		R4P8	.9755	S4	.4068 .8553	S20	1.5400 .8205
		R4P9	.9752	S5	.6428 .8610	S21	1.8270 .8876
		R4P10	.9750	S6	.8848 .8629	S22	2.7840 .7211
		R4P11	.9746	S7	1.0178 .8671	S23	3.2980 .7543
		R4P12	.9745	S8	1.1448 .8753	S26	5.2890 .7567
				S9	1.5128 .8902		
				S10	1.8488 .8874		
				S27	5.3000 .7675		
				S28	.6428 .4635		

SPIKE R6		COWL R5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7543	S23	.7543
R6P1	.8773	R5P1	.8411
R6P2	.9091	R5P2	.8456
R6P3	.9157	R5P3	.8533
R6P4	.9249	R5P4	.8546
R6P5	.9301	R5P5	.8664
R6P6	.9328	R5P6	.8825
R6P9	.9266	R5P7	.9217
R6P10	.9144	R5P8	.9446
R6P11	.8791	R5P9	.9466
		R5P10	.9418
		R5P11	.9345

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	53	FLIGHT DATE 09/13/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.1119
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9188 ATMOS	K-CIRCUMF.	.3090
START	3:18:37.000	INTERVAL 1.000	ENG. FACE RECOV	.8914	ENGINE M/M*	.7875	K-RADIAL	.1434
STOP	3:19: 7.000	ENG LOK RPM 6704.	ENG. FACE MACH NO	.4901	COWL M/M*	.4575		
			COWL LIP RECOV	.9390	ADDITIVE M/M*	.2900	K-DELTA	.0889
			MACH AT COWL LIP	.2875			K-A	.2322

SPIKE R1		COWL K3		STAT XCM/KC= 5.9830	
STAT XCM/KC=	.0728	STAT XCM/KC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9304	S14	.8429	A36	.9028 A198
R1P1	.9933	K3P1	.8408	H36	.8824 H198
R1P2	.9987	K3P2	.8407	C36	.8583 C198
R1P3	.9996	K3P3	.8403	D36	.8436 D198
R1P4	.9995	K3P4	.8404	E36	.8328 E198
R1P5	.9995	K3P5	.8402	90 DEG RAKE	252 DEG RAKE
R1P6	.9995	K3P6	.8405	A90	.9293 A252
R1P7	.9996	K3P7	.9026	H90	.9325 H252
R1P8	.9994	K3P8	.9071	C90	.9112 C252
R1P9	.9967	K3P9	.9853	D90	.8482 D252
		K3P10	1.0015	E90	.8910 E252
		K3P11	1.0017	144 DEG RAKE	324 DEG RAKE
		K3P12	.9949	A144	.9324 A324
		K3P13	1.0020	H144	.9292 H324
		K3P14	1.0023	D144	.8887 D324
		K3P15	1.0020	C144	.8751 C324
		K3P16	1.0024	E144	.8614 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/KC=	1.4678	STAT XCM/KC=	1.5340	SPIKE	XCM/KC	P/PU	IAP
S9	.8870	S20	.8149	TAP	XCM/KC	P/PU	IAP
R2P1	.8987	K4P1	.9557	S1	.0702	.9800	S14
R2P2	.9150	K4P2	.9677	S2	.0728	.9304	S15
R2P3	.9298	K4P3	.9707	S11	.0728	.9314	S16
R2P4	.9710	K4P4	.9722	S12	.0728	.9315	S17
R2P5	.9722	K4P5	.9733	S13	.0728	.9334	S18
		K4P6	.9732	S3	.1408	.9024	S19
		K4P7	.9736	S4	.4008	.8512	S20
		K4P8	.9747	S5	.0428	.8571	S21
		K4P9	.9746	S6	.0848	.8591	S22
		K4P10	.9736	S7	1.0178	.8635	S23
		K4P11	.9738	S8	1.1448	.8723	S26
		K4P12	.9727	S9	1.5128	.8870	
				S10	1.8488	.8850	
				S27	5.3000	.7604	
				S28	.0428	.9618	

SPIKE R6		COWL K5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.7473	S23	.7473
K6P1	.8758	K5P1	.8347
K6P2	.9055	K5P2	.8416
K6P3	.9149	K5P3	.8511
K6P4	.9214	K5P4	.8550
K6P5	.9274	K5P5	.8620
K6P6	.9305	K5P6	.8700
K6P9	.9237	K5P7	.9153
K6P10	.9086	K5P8	.9477
K6P11	.8762	K5P9	.9451
		K5P10	.9400
		K5P11	.9388

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	55	FLIGHT DATE	04/13/79	SPIKE POS. OX/KC	.4558	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.0344
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9179 ATMOS	K-CIRCUMF.	.7783
START	3:29:35.001	INTERVAL	1.000	ENG. FACE RECUV	.9175	ENGINE M/M*	.6078	K-RADIAL	.1140
STOP	3:30:4.999	ENG LOK RPM	3821.	ENG. FACE MACH NO	.2129	COWL M/M*	.2332	K-DELTA	.0954
				COWL LIP RECUV	.9068	ADDITIVE M/M*	.3746	K-A	.2094
				MACH AT COWL LIP	.1076				

SPIKE H1		COWL H3		STAT XLM/KC= 5.4830	
STAT XCM/KC= .4752	STAT XCM/KC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9791	S14 .9785	A30 .9174	A198 .9844		
R1P1 1.0021	R3P1 .9784	H36 .9145	H198 .9885		
R1P2 1.0016	R3P2 .9786	C36 .9081	C198 .9802		
R1P3 1.0027	R3P3 .9784	D36 .9031	D198 .9743		
R1P4 1.0024	R3P4 .9784	E36 .9593	E198 .9674		
R1P5 1.0026	R3P5 .9783	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0026	R3P6 .9783	A90 .9424	A252 .9871		
R1P7 1.0025	R3P7 .9405	H90 .9421	H252 .9804		
R1P8 1.0023	R3P8 .9787	C90 .9441	C252 .9761		
R1P9 1.0006	R3P9 .9425	D90 .9400	D252 .9731		
	R3P10 .9431	E90 .9180	E252 .9691		
	R3P11 .9547	144 DEG HAKE	324 DEG HAKE		
	R3P12 1.0028	A144 .9416	A324 .9779		
	R3P13 1.0052	H144 .9814	H324 .9765		
	R3P14 1.0054	D144 .9164	D324 .9743		
	R3P15 1.0054	C144 .9117	C324 .9737		
	R3P16 1.0055	E144 .9004	E324 .9726		

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCM/KC= 1.8702	STAT XCM/KC= 1.5386			SPIKE		COWL	
S9 .9734	S20 .9539	TAP	ALW/KC	P/PO	IAP	XCM/KC	P/PO
R2P1 .9224	R4P1 .9417	S1 .5202	.9780	S14 .0340	.9785		
R2P2 .9933	R4P2 .9444	S2 .4752	.9741	S15 .1860	.9748		
R2P3 .9982	R4P3 1.0000	S11 .4752	.9786	S16 .4150	.9785		
R2P4 .9973	R4P4 .9949	S12 .4752	.9782	S17 .4470	.9825		
R2P5 .9920	R4P5 1.0004	S13 .4752	.9789	S18 1.1740	.9779		
	R4P6 1.0005	S3 .5432	.9812	S19 1.4590	.9749		
	R4P7 1.0006	S4 .6042	.9777	S20 1.5400	.9539		
	R4P8 1.0011	S5 1.0452	.9749	S21 1.8270	.9728		
	R4P9 1.0017	S6 1.2422	.9752	S22 2.7840	.9316		
	R4P10 1.0022	S7 1.4202	.9748	S23 3.2480	.9462		
	R4P11 1.0028	S8 1.5522	.9724	S26 5.2890	.9455		
	R4P12 1.0028	S9 1.9152	.9738				
		S10 2.2512	.9702				
		S27 5.3000	.9416				
		S28 1.0452	.9948				

SPIKE H6		COWL H5	
STAT XCM/KC= 3.5040	STAT XCM/KC= 3.3270		
S23 .9402	S23 .9402		
R6P1 .9672	R5P1 .9604		
R6P2 .9764	R5P2 .9689		
R6P3 .9762	R5P3 .9710		
R6P4 .9784	R5P4 .9723		
R6P5 .9404	R5P5 .9737		
R6P8 .9877	R5P6 .9781		
R6P9 .9860	R5P7 .9883		
R6P10 .9813	R5P8 .9973		
R6P11 .9711	R5P9 .9464		
	R5P10 .9441		
	R5P11 .9439		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	56	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.4558	AMBIENT TEMP	297.8 DEG K	MAX-MIN DIST	.0790
		FLIGHT NO. 0	HYPASS POS. OPEN		AMBIENT PRESS	.9189 ATMUS	K-CIRCUMF.	.0272
START	3:33:34.000	INTERVAL 1.000	ENG. FALC REC'D	.9471	ENGINE M/M*	.6963	K-RADIAL	.1965
STOP	3:34:40.000	ENG CLK RPM 5016.	ENG. FALC MACH NO	.3286	COWL M/M*	.3725		
			COWL LIP REC'D	.9696	ADDITIVE M/M*	.3739	K-DELTA	.1476
			MACH AT COWL LIP	.1770			K-A	.3442

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.4752	STAT XCW/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9512	S14	.9461	A36	.9508 A198
R1P1	1.0002	R3P1	.9470	M36	.9436 B198
R1P2	.9999	R3P2	.9467	C36	.9234 C198
R1P3	1.0004	R3P3	.9464	D36	.9203 D198
R1P4	1.0003	R3P4	.9465	E36	.9073 E198
R1P5	1.0007	R3P5	.9463	90 DEG HAKE	252 DEG HAKE
R1P6	1.0007	R3P6	.9464	A90	.9821 A252
R1P7	1.0006	R3P7	.9478	B90	.9788 B252
R1P8	1.0007	R3P8	.9473	C90	.9613 C252
R1P9	.9969	R3P9	.9564	D90	.9511 D252
		R3P10	.9773	E90	.9463 E252
		R3P11	1.0002	144 DEG HAKE	324 DEG HAKE
		R3P12	.9960	A144	.9803 A324
		R3P13	1.0035	B144	.9737 B324
		R3P14	1.0033	D144	.9430 D324
		R3P15	1.0037	C144	.9324 C324
		R3P16	1.0040	E144	.9207 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.8702	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9388	S20	.8930	XCW/RC	P/PO	IAP	P/PO
R2P1	.9657	R4P1	.9867	S1	.3262 .9488	S14	.0340 .9461
R2P2	.9811	R4P2	.9921	S2	.4752 .9512	S15	.1860 .9426
R2P3	.9915	R4P3	.9931	S11	.4752 .9506	S16	.4150 .9508
R2P4	.9903	R4P4	.9931	S12	.4752 .9504	S17	.8470 .9589
R2P5	.9777	R4P5	.9942	S13	.4752 .9520	S18	1.1740 .9493
		R4P6	.9944	S3	.5432 .9559	S19	1.4590 .9427
		R4P7	.9954	S4	.8092 .9482	S20	1.5400 .8936
		R4P8	.9964	S5	1.0432 .9425	S21	1.8270 .9380
		R4P9	.9977	S6	1.2422 .9434	S22	2.7840 .8459
		R4P10	.9978	S7	1.4202 .9415	S23	3.2980 .8714
		R4P11	.9984	S8	1.5522 .9372	S26	5.2690 .8755
		R4P12	.9984	S9	1.9152 .9388		
				S10	2.2512 .9315		
				S27	5.3000 .8745		
				S28	1.0432 .9857		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8714	S23	.8714
R6P1	.9246	R5P1	.9144
R6P2	.9434	R5P2	.9176
R6P3	.9425	R5P3	.9232
R6P4	.9494	R5P4	.9251
R6P5	.9537	R5P5	.9314
R6P6	.9717	R5P6	.9368
R6P7	.9675	R5P7	.9583
R6P8	.9594	R5P8	.9467
R6P9	.9368	R5P9	.9464
		R5P10	.9812
		R5P11	.9747

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	57	FLIGHT DATE	09/13/79	SPIKE POS. DX/RX	.4557	AMBIENT TEMP	297.8 DEG K	MAX=MIN DIST	.1069
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9188 ATMOS	K=CIRCUMF.	.5588
START	3:36:15.000	INTERVAL	1.000	ENG. FALC RECOV	.9293	ENGINE M/M*	.7539	K=RADIAL	.2084
STOP	3:36:44.999	ENG LOU RPM	5621.	ENG. FALC MACH NO	.3901	COWL M/M*	.4050	K=DELTA	.1708
				COWL LIP RECOV	.9582	ADDITIVE M/M*	.3889	K=A	.3792
				MACH AT LOU/LIP	.1956				

SPIKE R1		COWL R3		STAT XCW/RCL= 5.4830	
STAT XCW/RCL= .4753		STAT XCW/RCL= .0700		30 DEG HAKE	198 DEG HAKE
S2 .9357	S14 .9302	A36 .9314	A198 .9535		
R1P1 .9999	R3P1 .9296	H36 .9236	H198 .9633		
R1P2 .9996	R3P2 .9301	C36 .9031	C198 .9531		
R1P3 1.0018	R3P3 .9303	D36 .8882	D198 .9202		
R1P4 1.0000	R3P4 .9302	E36 .8777	E198 .8965		
R1P5 1.0008	R3P5 .9302	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0006	R3P6 .9304	A90 .9771	A252 .9436		
R1P7 1.0010	R3P7 .9836	H90 .9724	H252 .9334		
R1P8 1.0011	R3P8 .9312	C90 .9442	C252 .9234		
R1P9 .9962	R3P9 .9417	D90 .9343	D252 .9162		
	R3P10 .9685	E90 .9280	E252 .9040		
	R3P11 .9982	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9969	A144 .9744	A324 .9312		
	R3P13 1.0035	H144 .9634	H324 .9334		
	R3P14 1.0035	D144 .9272	D324 .9236		
	R3P15 1.0037	C144 .9112	C324 .9170		
	R3P16 1.0034	E144 .8952	E324 .9103		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RCL= 1.8703		STAT XCW/RCL= 1.5380		SPIKE	P/P0	TAP	COWL
S9 .9189	S20 .8564			ALW/RCL			XCW/RCL
R2P1 .9535	R4P1 .9823	TAP		S1 .9263	.9343	S14 .0340	.9302
R2P2 .9741	R4P2 .9878	S1		S2 .4753	.9357	S15 .1860	.9249
R2P3 .9890	R4P3 .9897	S2		S11 .4753	.9357	S16 .4150	.9359
R2P4 .9871	R4P4 .9901	S11		S12 .4753	.9364	S17 .8470	.9464
R2P5 .9693	R4P5 .9910	S12		S13 .4753	.9383	S18 1.1740	.9337
	R4P6 .9909	S13		S3 .5433	.9432	S19 1.4590	.9244
	R4P7 .9928	S3		S4 .8043	.9324	S20 1.5400	.8584
	R4P8 .9936	S4		S5 1.0453	.9251	S21 1.8270	.9179
	R4P9 .9944	S5		S6 1.2423	.9262	S22 2.7840	.7925
	R4P10 .9955	S6		S7 1.4203	.9233	S23 3.2980	.8252
	R4P11 .9960	S7		S8 1.5523	.9164	S26 5.2690	.8322
	R4P12 .9970	S8		S9 1.9153	.9180		
		S9		S10 2.2513	.9046		
		S10		S27 5.3000	.8376		
		S27		S28 1.0453	.9814		

SPIKE R6		COWL R5	
STAT XCW/RCL= 3.5040		STAT XCW/RCL= 3.3270	
S23 .8252	S23 .8252		
R6P1 .8965	R5P1 .8813		
R6P2 .9217	R5P2 .8876		
R6P3 .9238	R5P3 .8924		
R6P4 .9317	R5P4 .8965		
R6P5 .9365	R5P5 .9036		
R6P6 .9628	R5P6 .9123		
R6P7 .9581	R5P7 .9462		
R6P8 .9456	R5P8 .9814		
R6P9 .9164	R5P9 .9820		
	R5P10 .9773		
	R5P11 .9735		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	58	FLIGHT DATE 09/13/79	SPIKE POS. DX/KC	.4558	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.1309
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9184 ATMOS	K=CIRCUMF.	.4584
START	3:39:08.003	INTERVAL 1.000	ENG. FACE REC'D	.9167	ENGINE M/M*	.8278	K=RADIAL	.2068
STOP	3:39:37.999	ENG CUM RPM 6107.	ENG. FACE MACH NO	.4364	COWL M/M*	.4355		
			COWL LIP REC'D	.9508	ADDITIVE M/M*	.3922	K=DELTA	.1521
			MACH AT COWL LIP	.2128			K=A	.3589

SPIKE H1		COWL H3		STAT XCM/KC= 5.4830	
STAT XCM/KC= .4752	STAT XCM/KC= .0700	36 DEG HAKE 198 DEG HAKE			
S7 .9246	S14 .9179	A36 .9177	A198 .9461		
K1P1 .9999	K3P1 .9175	K36 .9108	K198 .9556		
K1P2 .9995	K3P2 .9174	C36 .8835	C198 .9431		
K1P3 1.0000	K3P3 .9177	D36 .8803	D198 .9040		
K1P4 1.0000	K3P4 .9178	E36 .8527	E198 .8734		
K1P5 1.0007	K3P5 .9175	90 DEG HAKE 252 DEG HAKE			
K1P6 1.0014	K3P6 .9172	A90 .9727	A252 .9412		
K1P7 1.0007	K3P7 .9803	K90 .9653	K252 .9275		
K1P8 .9988	K3P8 .9195	C90 .9350	C252 .9106		
K1P9 .9964	K3P9 .9336	D90 .9143	D252 .8993		
	K3P10 .9666	E90 .9130	E252 .8867		
	K3P11 .9984	144 DEG HAKE 324 DEG HAKE			
	K3P12 .9965	A144 .9709	A324 .9200		
	K3P13 1.0039	K144 .9594	K324 .9257		
	K3P14 1.0039	D144 .9123	C324 .9156		
	K3P15 1.0037	C144 .8472	D324 .9019		
	K3P16 1.0038	E144 .8821	E324 .8900		

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCM/KC= 1.8702	STAT XCM/KC= 1.5380						
S9 .9051	S20 .8349	SPIKE		XCM/KC	P/PU	TAP	COWL
K2P1 .9455	K4P1 .9795	TAP	XCM/KC	P/PU	TAP	XCM/KC	P/PU
K2P2 .9704	K4P2 .9870	S1 .9262	.9228	S14 .0340	.9179		
K2P3 .9875	K4P3 .9873	S2 .4752	.9246	S15 .1860	.9129		
K2P4 .9851	K4P4 .9874	S11 .4752	.9251	S16 .4150	.9252		
K2P5 .9673	K4P5 .9889	S12 .4752	.9249	S17 .8470	.9379		
	K4P6 .9886	S13 .4752	.9275	S18 1.1740	.9223		
	K4P7 .9915	S3 .5432	.9333	S19 1.4590	.9113		
	K4P8 .9921	S4 .8042	.9214	S20 1.5400	.8349		
	K4P9 .9927	S5 1.0452	.9123	S21 1.8270	.9028		
	K4P10 .9937	S6 1.2422	.9129	S22 2.7640	.7487		
	K4P11 .9953	S7 1.4202	.9097	S23 3.2980	.7910		
	K4P12 .9967	S8 1.5522	.9024	S26 5.2890	.7979		
		S9 1.9152	.9051				
		S10 2.2512	.8938				
		S27 5.3000	.8063				
		S28 1.0452	.9784				

SPIKE H6		COWL H5	
STAT XCM/KC= 3.5040	STAT XCM/KC= 3.3270		
S23 .7910	S23 .7910		
K6P1 .8791	K5P1 .8587		
K6P2 .9021	K5P2 .8638		
K6P3 .9043	K5P3 .8703		
K6P4 .9174	K5P4 .8702		
K6P5 .9228	K5P5 .8845		
K6P6 .9592	K5P6 .8923		
K6P7 .9530	K5P7 .9313		
K6P10 .9404	K5P8 .9706		
K6P11 .9023	K5P9 .9791		
	K5P10 .9732		
	K5P11 .9707		

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	59	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.4558	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.1399
		FLIGHT NO. 6	BYPASS POS. UPEN		AMBIENT PRESS	.9185 ATMUS	K-CIRCUMF.	.4226
START	3:42:4.001	INTERVAL 1.000	ENG. FALC REC'D	.9098	ENGINE M/M*	.8658	K-RADIAL	.1947
STOP	3:42:33.998	ENG CLK RPM 6279.	ENG. FALC MACH NO	.4574	COWL M/M*	.4472	K-DELTA	.1505
			COWL LIP REC'D	.9474	ADDITIVE M/M*	.4186	K-A	.3452
			MACH AT COWL LIP	.2197				

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.4752	STAT XCW/KC=	.0700	36 DEG KAKE	198 DEG KAKE
S2	.9198	S14	.9124	A36	.9136 A198
R1P1	.9998	K3P1	.9119	B36	.9023 B198
K1P2	.9989	K3P2	.9124	C36	.8747 C198
R1P3	1.0034	K3P3	.9122	D36	.8548 D198
K1P4	1.0010	K3P4	.9118	E36	.8444 E198
R1P5	1.0005	K3P5	.9119	90 DEG KAKE	252 DEG KAKE
K1P6	1.0005	K3P6	.9118	A90	.9118 A252
R1P7	1.0016	K3P7	.9802	B90	.9072 B252
K1P8	1.0003	K3P8	.9137	C90	.9321 C252
R1P9	.9953	K3P9	.9289	D90	.9141 D252
		K3P10	.9645	E90	.9076 E252
		K3P11	.9980	144 DEG KAKE	324 DEG KAKE
		K3P12	.9958	A144	.9058 A324
		K3P13	1.0037	B144	.9571 B324
		K3P14	1.0036	D144	.9049 D324
		K3P15	1.0036	C144	.8874 C324
		K3P16	1.0038	E144	.8700 E324

SPIKE R2		COWL K4		STATIC PRESSURES	
STAT XCW/KC=	1.8702	STAT XCW/KC=	1.5380	SPIKE	
S9	.8978	S20	.8232	XCW/KC	P/PU
R2P1	.9421	K4P1	.9765	S1	.3262 .9178
K2P2	.9685	K4P2	.9851	S2	.4752 .9198
R2P3	.9873	K4P3	.9865	S11	.4752 .9192
K2P4	.9838	K4P4	.9878	S12	.4752 .9196
R2P5	.9611	K4P5	.9876	S13	.4752 .9228
		K4P6	.9883	S3	.5432 .9290
		K4P7	.9893	S4	.8092 .9155
		K4P8	.9911	S5	1.0452 .9063
		K4P9	.9921	S6	1.2422 .9068
		K4P10	.9930	S7	1.4202 .9033
		K4P11	.9942	S8	1.5522 .8954
		K4P12	.9952	S9	1.9152 .8978
				S10	2.2512 .8859
				S27	5.3000 .7909
				S28	1.0452 .9765

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7726	S23	.7726
K6P1	.8632	K5P1	.8465
R6P2	.8945	K5P2	.8522
K6P3	.8988	K5P3	.8557
R6P4	.9086	K5P4	.8621
K6P5	.9174	K5P5	.8672
R6P6	.9561	K5P6	.8837
K6P7	.9517	K5P7	.9238
R6P10	.9349	K5P8	.9756
K6P11	.8945	K5P9	.9794
		K5P10	.9704
		K5P11	.9679

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	00	FLIGHT DATE 09/13/79	SPIKE POS. DX/MC	.4558	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.1516
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9180 ATMOS	K-CIRCUMF.	.3856
START	3:44:20.000	INTERVAL 1.000	ENG. FACE RECOV	.9037	ENGINE M/M*	.9024	K-RADIAL	.1868
STOP	3:44:50.000	ENG CLK RPM 6485.	ENG. FACE MACH NO	.4794	COWL M/M*	.4837	K-DELTA	.1422
			COWL LIP RECOV	.9433	ADDITIVE M/M*	.4487	K-A	.3290
			MACH AT COWL LIP	.2241				

SPIKE K1		COWL K3		STAT XCM/MC= 5.4850	
STAT XCM/MC=	.4752	STAT XCM/MC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9142	S14	.9076	A36	.9060 A198
K1P1	1.0003	K3P1	.9077	K36	.8961 K198
K1P2	.9943	K3P2	.9074	C36	.8641 C198
K1P3	.9888	K3P3	.9071	D36	.8450 D198
K1P4	1.0002	K3P4	.9074	E36	.8319 E198
K1P5	1.0004	K3P5	.9069	90 DEG MAKE	252 DEG MAKE
K1P6	1.0005	K3P6	.9071	A90	.9690 A252
K1P7	.9934	K3P7	.9799	B90	.9613 B252
K1P8	1.0005	K3P8	.9080	C90	.9276 C252
K1P9	.9946	K3P9	.9205	D90	.9088 D252
		K3P10	.9548	E90	.9009 E252
		K3P11	.9965	144 DEG MAKE	324 DEG MAKE
		K3P12	.9954	A144	.9654 A324
		K3P13	1.0037	M144	.9516 M324
		K3P14	1.0038	U144	.8968 U324
		K3P15	1.0037	C144	.8797 C324
		K3P16	1.0042	E144	.8626 E324

SPIKE K2		COWL K4		STATIC PRESSURES	
STAT XCM/MC=	1.4702	STAT XCM/MC=	1.5380	SPIKE	
S9	.8906	S20	.8136	XCM/MC	P/PO
K2P1	.9383	K4P1	.9766	TAP	TAP
K2P2	.9656	K4P2	.9834	S1	.9133 S14
K2P3	.9868	K4P3	.9845	S2	.9142 S15
K2P4	.9829	K4P4	.9853	S11	.9150 S16
K2P5	.9575	K4P5	.9856	S12	.9154 S17
		K4P6	.9862	S13	.9186 S18
		K4P7	.9874	S3	.9247 S19
		K4P8	.9891	S4	.9105 S20
		K4P9	.9907	S5	1.0452 .9005 S21
		K4P10	.9931	S6	1.2422 .9015 S22
		K4P11	.9945	S7	1.4262 .8977 S23
		K4P12	.9948	S8	1.5522 .8887 S26
				S9	1.7152 .8906
				S10	2.2512 .8765
				S27	5.3000 .7751
				S28	1.0452 .9758

SPIKE K6		COWL K5	
STAT XCM/MC=	3.5040	STAT XCM/MC=	3.3270
S23	.7561	S23	.7561
K6P1	.8502	K5P1	.8356
K6P2	.8802	K5P2	.8419
K6P3	.8884	K5P3	.8508
K6P4	.9015	K5P4	.8519
K6P5	.9107	K5P5	.8644
K6P6	.9501	K5P6	.8732
K6P9	.9476	K5P7	.9246
K6P10	.9343	K5P8	.9725
K6P11	.8934	K5P9	.9775
		K5P10	.9698
		K5P11	.9662

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	03	FLIGHT DATE	09/13/79	SPIKE POS. OX/RC	.0834	AMBIENT TEMP	300.6 DEG K	MAX-MIN DIST	.0212
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9183 ATMOS	K-CIRCUMF.	.6941
START	3:54:18.000	INTERVAL	1.000	ENG. FACE RECUV	.9710	ENGINE M/M	.8660	K-RADIAL	.0466
STOP	3:54:47.997	ENG CUR RPM	3827.	ENG. FACE MACH NO	.1928	COWL M/M	.3461	K-DELTA	.0111
				COWL LIP RECUV	.9841	ADDITIVE M/M	.5199	K-A	.0576
				MACH AT COWL LIP	.1117				

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC= .8476	STAT XCW/RC= .0700	30 DEG HAKE	148 DEG HAKE		
S2 .9788	S14 .9723	A36 .9644	A198 .9731		
R1P1 .9999	R3P1 .9720	B36 .9747	B198 .9771		
R1P2 1.0060	R3P2 .9718	C36 .9764	C198 .9811		
R1P3 1.0024	R3P3 .9719	D36 .9734	D198 .9718		
R1P4 1.0024	R3P4 .9718	E36 .9710	E198 .9614		
R1P5 1.0024	R3P5 .9718	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0023	R3P6 .9719	A90 .9713	A252 .9660		
R1P7 1.0024	R3P7 .9800	H90 .9767	H252 .9700		
R1P8 1.0019	R3P8 .9717	L90 .9747	L252 .9746		
R1P9 1.0054	R3P9 .9723	U90 .9694	U252 .9705		
	R3P10 .9752	E90 .9656	E252 .9679		
	R3P11 .9857	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9960	A144 .9770	A324 .9661		
	R3P13 1.0057	H144 .9750	H324 .9755		
	R3P14 1.0052	U144 .9667	U324 .9723		
	R3P15 1.0055	C144 .9636	C324 .9710		
	R3P16 1.0060	E144 .9605	E324 .9700		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC= 2.2426	STAT XCW/RC= 1.5380			SPIKE		COWL	
S9 .9154	S20 .6154	TAP	XCW/RC	P/P0	TAP	XCW/RC	P/P0
R2P1 .9519	R4P1 .9902	S1 .6960	.9736	S14 .0340	S14 .9723		
R2P2 .9974	R4P2 .9995	S2 .8476	.9788	S15 .1860	S15 .9711		
R2P3 .9946	R4P3 .9997	S11 .8476	.9719	S16 .4150	S16 .9683		
R2P4 .9786	R4P4 1.0007	S12 .8476	.9721	S17 .8470	S17 .9792		
R2P5 .9567	R4P5 1.0012	S13 .8476	.9736	S18 1.1740	S18 .9618		
	R4P6 1.0018	S3 .9156	.9728	S19 1.4590	S19 .9190		
	R4P7 1.0030	S4 1.1816	.9480	S20 1.5400	S20 .8154		
	R4P8 1.0038	S5 1.4176	.9084	S21 1.8270	S21 .8925		
	R4P9 1.0045	S6 1.6646	.8891	S22 2.7840	S22 .9261		
	R4P10 1.0049	S7 1.7426	.8921	S23 3.2980	S23 .9436		
	R4P11 1.0047	S8 1.9246	.8947	S26 5.2890	S26 .9419		
	R4P12 1.0018	S9 2.2816	.9154				
		S10 2.6236	.9283				
		S27 5.3000	.9498				
		S28 1.4176	.9859				

SPIKE R6		COWL R5	
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270		
S23 .9436	S23 .9436		
R6P1 .9579	R5P1 .9446		
R6P2 .9652	R5P2 .9499		
R6P3 .9571	R5P3 .9508		
R6P4 .9582	R5P4 .9508		
R6P5 .9608	R5P5 .9520		
R6P8 .9692	R5P6 .9518		
R6P9 .9738	R5P7 .9527		
R6P10 .9731	R5P8 .9545		
R6P11 .9801	R5P9 .9672		
	R5P10 .9742		
	R5P11 .9942		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	64	FLIGHT DATE 09/13/79	SPK POS. DX/RC	.0829	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0249
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9190 ATMOS	K-CIRCUMF.	.6721
START	3:56:45.001	INTERVAL 1.000	ENG. FACE RECUV	.9657	ENGINE M/M*	.8800	K-RADIAL	.0491
STOP	3:57:14.999	ENG CUR RPM 4003.	ENG. FACE MACH NO	.2160	COWL M/M*	.3659		
			COWL LIP RECUV	.9788	ADDITIVE M/M*	.5142	K-DELTA	.0191
			MACH AT COWL LIP	.1188			K-A	.0682

SPIKE R1		COWL K3		STAT XLW/RC= 5.4830	
STAT XLW/RC= .8481		STAT XLW/RC= .0700		36 DEG HAKE	198 DEG HAKE
S2	.9708	S14	.9677	A36	.9586 A198
R1P1	.9985	R3P1	.9671	H36	.9699 H198
R1P2	1.0011	R3P2	.9672	C36	.9726 C198
R1P3	1.0016	R3P3	.9673	D36	.9685 D198
R1P4	1.0014	R3P4	.9673	E36	.9658 E198
R1P5	1.0015	R3P5	.9675	90 DEG HAKE	252 DEG HAKE
R1P6	1.0012	R3P6	.9675	A90	.9664 A252
R1P7	1.0014	R3P7	.9666	H90	.9721 H252
R1P8	1.0012	R3P8	.9668	C90	.9684 C252
R1P9	.9997	R3P9	.9668	D90	.9635 D252
		R3P10	.9688	E90	.9595 E252
		R3P11	.9792	144 DEG HAKE	324 DEG HAKE
		R3P12	.9406	A144	.9738 A324
		R3P13	1.0047	H144	.9751 H324
		R3P14	1.0047	C144	.9685 C324
		R3P15	1.0050	D144	.9561 D324
		R3P16	1.0057	E144	.9518 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XLW/RC= 2.2431		STAT XLW/RC= 1.5380		SPK	XLW/RC	P/PO	IAP
S9	.9021	S20	.7843				COWL
R2P1	.9471	R4P1	.9666	TAP			XLW/RC
R2P2	.9893	R4P2	.9974	S1	.8441	.9696	S14
R2P3	.9932	R4P3	.9983	S2	.8481	.9708	S15
R2P4	.9717	R4P4	.9995	S11	.8481	.9675	S16
R2P5	.9533	R4P5	1.0007	S12	.8481	.9680	S17
		R4P6	1.0014	S13	.8481	.9695	S18
		R4P7	1.0025	S3	.9161	.9683	S19
		R4P8	1.0030	S4	1.1821	.9409	S20
		R4P9	1.0038	S5	1.4161	.8925	S21
		R4P10	1.0043	S6	1.8651	.8717	S22
		R4P11	1.0045	S7	1.7931	.8760	S23
		R4P12	1.0008	S8	1.9251	.8779	S26
				S9	2.2881	.9021	
				S10	2.8641	.9173	
				S27	5.3000	.9357	
				S28	1.4181	.9830	

SPIKE R6		COWL K5	
STAT XLW/RC= 3.5040		STAT XLW/RC= 3.3270	
S23	.9338	S23	.9338
R6P1	.9472	R6P1	.9415
R6P2	.9545	R6P2	.9406
R6P3	.9502	R6P3	.9420
R6P4	.9517	R6P4	.9417
R6P5	.9534	R6P5	.9424
R6P8	.9617	R6P6	.9434
R6P9	.9652	R6P7	.9452
R6P10	.9644	R6P8	.9447
R6P11	.9771	R6P9	.9606
		R6P10	.9728
		R6P11	.9427

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	05	FLIGHT DATE 09/13/79	SPIKE POS. OX/KC	.0030	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0313
START	3:58:57.000	FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9191 ATMOS	K-CIRCUMF.	.6372
STOP	3:59:26.997	INTERVAL 1.000	ENG. FACE REC'D	.9587	ENGINE M/M	.9004	K-RADIAL	.0592
		ENG COM RPM 4234	ENG. FACE MACH NO	.2366	COWL M/M	.4105	K-DELTA	.0243
			COWL LIP REC'D	.9745	ADDITIVE M/M	.4900	K-A	.0835
			MACH AT COWL LIP	.1342				

SPIKE R1		COWL R3		STAT XLM/HCE 5.4830	
STAT XCM/RCE	.8480	STAT XCM/KLE	.0700	30 DEG HAKE	198 DEG HAKE
S2	.9637	S14	.9610	A36	.9490 A198
R1P1	.9983	R3P1	.9609	R36	.9633 H198
R1P2	1.0009	R3P2	.9608	C36	.9644 C198
R1P3	1.0014	R3P3	.9607	D36	.9607 D198
R1P4	1.0014	R3P4	.9609	E36	.9501 E198
R1P5	1.0014	R3P5	.9604	90 DEG HAKE	252 DEG HAKE
R1P6	1.0014	R3P6	.9601	A90	.9601 A252
R1P7	1.0016	R3P7	.9837	B90	.9614 B252
R1P8	1.0012	R3P8	.9601	C90	.9601 C252
R1P9	.9994	R3P9	.9610	D90	.9503 D252
		R3P10	.9654	E90	.9505 E252
		R3P11	.9786	144 DEG HAKE	324 DEG HAKE
		R3P12	.9917	A144	.9682 A324
		R3P13	1.0048	B144	.9709 B324
		R3P14	1.0048	D144	.9535 D324
		R3P15	1.0046	C144	.9483 C324
		R3P16	1.0051	E144	.9430 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RCE	2.2430	STAT XLM/HCE	1.5380	SPIKE		COWL	
S9	.8826	S20	.7458	XLM/KC	P/PU	XCM/KC	P/PU
R2P1	.9353	R4P1	.9450	TAP			
R2P2	.9877	R4P2	.9900	S1	.8640	S14	.0340
R2P3	.9916	R4P3	.9971	S2	.8480	S15	.1860
R2P4	.9663	R4P4	.9976	S11	.8460	S16	.4150
R2P5	.9395	R4P5	.9990	S12	.8480	S17	.8470
		R4P6	.9997	S13	.8480	S18	1.1740
		R4P7	1.0014	S3	.9160	S19	1.4590
		R4P8	1.0020	S4	1.1020	S20	1.5400
		R4P9	1.0031	S5	1.4160	S21	1.8270
		R4P10	1.0040	S6	1.6650	S22	2.7840
		R4P11	1.0039	S7	1.7930	S23	3.2980
		R4P12	1.0003	S8	1.9250	S26	5.2890
				S9	2.2880		.9207
				S10	2.6240		
				S27	5.3000		
				S28	1.4180		

SPIKE R6		COWL R5	
STAT XCM/RCE	3.5640	STAT XLM/HCE	3.3270
S23	.9201	S23	.9201
R6P1	.9357	R5P1	.9282
R6P2	.9433	R5P2	.9283
R6P3	.9412	R5P3	.9292
R6P4	.9417	R5P4	.9291
R6P5	.9454	R5P5	.9296
R6P6	.9527	R5P6	.9302
R6P7	.9576	R5P7	.9322
R6P10	.9636	R5P8	.9370
R6P11	.9708	R5P9	.9513
		R5P10	.9671
		R5P11	.9873

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	66	FLIGHT DATE 09/13/79	SPIKE POS. DX/MC	.0829	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0329
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9193 ATMOS	K-CIRCUMF.	.6210
START	4: 0145.000	INTERVAL 1.000	ENG. FALC RECUV	.9514	ENGINE M/M*	.9137	K-RADIAL	.0578
STOP	4: 1115.000	ENG CUM MPH 4393.	ENG. FALC MACH NO	.2503	COWL M/M*	.4288	K-DELTA	.0360
			COWL LIP RECUV	.9709	ADDITIVE M/M*	.4849	K-A	.0938
			MACH AT COWL LIP	.1408				

SPIKE R1		COWL R3		STAT XCM/MC= 5.4830	
STAT XCM/MC=	.8481	STAT XCM/MC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9590	S14	.9500	A36	.9434 A198 .9545
R1P1	.9979	R3P1	.9559	H36	.9577 H198 .9548
R1P2	1.0000	R3P2	.9555	C36	.9564 C198 .9651
R1P3	1.0013	R3P3	.9557	D36	.9545 D198 .9484
R1P4	1.0012	R3P4	.9559	E36	.9444 E198 .9373
R1P5	1.0013	R3P5	.9561	90 DEG RAKE	252 DEG RAKE
R1P6	1.0013	R3P6	.9560	A90	.9535 A252 .9469
R1P7	1.0015	R3P7	.9800	H90	.9621 H252 .9502
R1P8	1.0010	R3P8	.9553	C90	.9547 C252 .9494
R1P9	.9993	R3P9	.9554	D90	.9511 D252 .9513
		R3P10	.9601	E90	.9434 E252 .9462
		R3P11	.9758	144 DEG RAKE	324 DEG RAKE
		R3P12	.9843	A144	.9644 A324 .9454
		R3P13	1.0045	H144	.9648 H324 .9602
		R3P14	1.0044	D144	.9466 D324 .9541
		R3P15	1.0052	C144	.9403 C324 .9480
		R3P16	1.0051	E144	.9338 E324 .9424

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/MC=	2.2431	STAT XCM/MC=	1.5380	SPIKE		COWL	
S9	.8653	S20	.7136	XCM/MC	P/PD	XCM/MC	P/PD
R2P1	.9265	R4P1	.9821	S1	.8641 .9541 S14	.0340	.9560
R2P2	.9857	R4P2	.9951	S2	.8481 .9540 S15	.1860	.9512
R2P3	.9902	R4P3	.9957	S11	.8481 .9573 S16	.4150	.9523
R2P4	.9601	R4P4	.9967	S12	.8481 .9574 S17	.8470	.9688
R2P5	.9273	R4P5	.9981	S13	.8481 .9605 S18	1.1740	.9427
		R4P6	.9945	S3	.9161 .9586 S19	1.4590	.8742
		R4P7	1.0000	S4	1.1421 .9217 S20	1.5400	.7136
		R4P8	1.0023	S5	1.4181 .8588 S21	1.8270	.8287
		R4P9	1.0031	S6	1.6651 .8222 S22	2.7840	.8339
		R4P10	1.0038	S7	1.7431 .8278 S23	3.2980	.9072
		R4P11	1.0043	S8	1.9251 .8327 S26	5.2690	.9086
		R4P12	.9948	S9	2.2881 .8653		
				S10	2.6241 .8865		
				S27	5.3000 .9122		
				S28	1.4181 .9778		

SPIKE R6		COWL R5	
STAT XCM/MC=	3.5040	STAT XCM/MC=	3.3270
S23	.9072	S23	.9072
R6P1	.9276	R5P1	.9158
R6P2	.9355	R5P2	.9165
R6P3	.9311	R5P3	.9177
R6P4	.9324	R5P4	.9181
R6P5	.9339	R5P5	.9177
R6P6	.9401	R5P6	.9140
R6P9	.9519	R5P7	.9188
R6P10	.9576	R5P8	.9201
R6P11	.9691	R5P9	.9374
		R5P10	.9565
		R5P11	.9440

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 69 FLIGHT DATE 09/13/79 SPIKE POS. DX/MC .0827 AMBIENT TEMP 301.1 DEG K
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9190 ATMUS
 START 4: 8135.001 INTERVAL 1.000 ENG. FACE RECUV .9215 ENGINE M/M* .9664
 STOP 4: 9: 4.998 ENG COM RPM 5004. ENG. FACE MACH NO .3075 COWL M/M* .4947
 COWL LIP RECUV .9574 ADDITIVE M/M* .4717
 MACH AT COWL LIP .1655
 MAX-MIN DIST .0522
 K-CINCUMF. .5217
 K-RADIAL .1002
 K-DELTA .0361
 K-A .1363

SPIKE R1		COWL R3		STAT XCM/MC= 5.4830	
STAT	XCM/RC= .8483	STAT	XCM/MC= .0700	30 DEG RAKE	198 DEG RAKE
S2	.9419	S14	.9367	A30	.9135 A198 .9317
R1P1	.9956	R3P1	.9363	R36	.9332 B198 .9363
R1P2	.9999	R3P2	.9357	C36	.9244 C198 .9371
R1P3	1.0007	R3P3	.9357	D36	.9239 D198 .9129
R1P4	1.0008	R3P4	.9361	E36	.9180 E198 .8963
R1P5	1.0010	R3P5	.9363	90 DEG RAKE	252 DEG RAKE
R1P6	1.0006	R3P6	.9364	A90	.9280 A252 .9169
R1P7	1.0009	R3P7	.9730	B90	.9405 B252 .9215
R1P8	1.0005	R3P8	.9366	C90	.9333 C252 .9214
R1P9	.9972	R3P9	.9373	D90	.9213 D252 .9191
		R3P10	.9407	E90	.9082 E252 .9120
		R3P11	.9561	144 DEG RAKE	324 DEG RAKE
		R3P12	.9770	A144	.9438 A324 .9163
		R3P13	1.0040	B144	.9373 B324 .9334
		R3P14	1.0042	D144	.9079 C324 .9255
		R3P15	1.0047	C144	.9018 D324 .9167
		R3P16	1.0050	E144	.8937 E324 .9097

SPIKE R2		COWL R4		STATIC PRESSURES		COWL		
STAT	XCM/RC= 2.2433	STAT	XLW/MC= 1.5380	SPIKE	P/PO	TAP	XLW/MC	P/PO
S9	.7962	S20	.5500	XLW/MC	P/PO	TAP	XLW/MC	P/PO
R2P1	.8811	R4P1	.9642	S1	.8443	.9427	S14	.0340 .9367
R2P2	.9788	R4P2	.9906	S2	.8483	.9419	S15	.1860 .9314
R2P3	.9786	R4P3	.9919	S11	.8483	.9401	S16	.4150 .9327
R2P4	.9293	R4P4	.9432	S12	.8483	.9357	S17	.8470 .9551
R2P5	.8800	R4P5	.9449	S13	.8483	.9439	S18	1.1740 .9176
		R4P6	.9461	S3	.9163	.9419	S19	1.4590 .8137
		R4P7	.9484	S4	1.1823	.8903	S20	1.5400 .5500
		R4P8	.9448	S5	1.4183	.7923	S21	1.8270 .7313
		R4P9	1.0015	S6	1.6853	.7223	S22	2.7840 .8215
		R4P10	1.0028	S7	1.7433	.7336	S23	3.2480 .8556
		R4P11	1.0028	S8	1.9253	.7411	S26	5.2890 .8600
		R4P12	.9988	S9	2.2883	.7962		
				S10	2.6243	.8266		
				S27	5.3000	.8645		
				S28	1.4183	.9687		

SPIKE R6		COWL R5	
STAT	XCM/RC= 3.5040	STAT	XLW/MC= 3.3270
S23	.8556	S23	.8556
R6P1	.8841	R5P1	.8654
R6P2	.8976	R5P2	.8659
R6P3	.8906	R5P3	.8674
R6P4	.8939	R5P4	.8671
R6P5	.8963	R5P5	.8692
R6P6	.9164	R5P6	.8676
R6P9	.9251	R5P7	.8700
R6P10	.9368	R5P8	.8803
R6P11	.9524	R5P9	.9013
		R5P10	.9243
		R5P11	.9641

* ESTIMATED

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	70	FLIGHT DATE 09/13/79	SPIKE POS. UX/MC	.4577	AMBIENT TEMP	305.0 DEG K	MAX-MIN DIST	.0592
		FLIGHT NO.	0				K-CIRCUMF.	.7720
START	5:14117.002	INTERVAL	1.000	HYPASS POS.	CLOSED	AMBIENT PRESS	K-RADIAL	.0565
STOP	5:14146.998	ENG CUM RPM	3759.	ENG. FACE RECOV	.9813	ENGINE M/M*		
				ENG. FACE MACH NU	.1879	COWL M/M*		
				COWL LIP RECOV	.9736	ADDITIVE M/M*		
				MACH AT COWL LIP	.1405		K-DELTA	.0736
							K-A	.1301

SPIKE R1		COWL R3		STAT XLW/MC= 5.4830	
STAT	XCW/MC= .4733	STAT	XCW/MC= .0700	36	DEG RAKE
S2	.9593	S14	.9613	A36	.9798
R1P1	1.0027	R3P1	.9603	H36	.9854
R1P2	1.0025	R3P2	.9602	C36	.9876
R1P3	1.0029	R3P3	.9602	D36	.9854
R1P4	1.0029	R3P4	.9600	E36	.9853
R1P5	1.0031	R3P5	.9600	90	DEG RAKE
R1P6	.9565	R3P6	.9135	A90	.9827
R1P7	1.0030	R3P7	.9925	H90	.9803
R1P8	1.0029	R3P8	.9604	C90	.9847
R1P9	.9990	R3P9	.9644	D90	.9811
		R3P10	.9784	E90	.9783
		R3P11	1.0004	144	DEG RAKE
		R3P12	1.0041	A144	.9805
		R3P13	1.0047	H144	.9843
		R3P14	1.0047	D144	.9808
		R3P15	1.0046	C144	.9774
		R3P16	1.0046	E144	.9741

SPIKE R2		COWL R4		STATIC PRESSURES	
STAT	XCW/MC= 1.4683	STAT	XCW/MC= 1.5340		
S9	.9440	S20	.9104	SPIKE	
R2P1	.9732	R4P1	.9920	XLW/MC	P/PO
R2P2	.9848	R4P2	.9980	S1	.9585
R2P3	.9956	R4P3	.9998	S2	.9543
R2P4	.9943	R4P4	1.0003	S11	.9574
R2P5	.9786	R4P5	1.0009	S12	.9588
		R4P6	1.0011	S13	.9612
		R4P7	1.0011	S3	.9635
		R4P8	1.0020	S4	.9673
		R4P9	1.0028	S5	1.0433
		R4P10	1.0030	S6	1.2903
		R4P11	1.0034	S7	1.4183
		R4P12	1.0045	S8	1.5503
				S9	1.9133
				S10	2.2443
				S27	5.3000
				S28	1.0433

SPIKE R6		COWL R5			
STAT	XCW/MC= 3.5040	STAT	XCW/MC= 3.3270		
S23	.9634	S23	.9634		
R6P1	.9747	R5P1	.9730		
R6P2	.9785	R5P2	.9731		
R6P3	.9780	R5P3	.9741		
R6P4	.9786	R5P4	.9741		
R6P5	.9821	R5P5	.9745		
R6P6	.9824	R5P6	.9763		
R6P9	.9846	R5P7	.9784		
R6P10	.9851	R5P8	.9834		
R6P11	.9864	R5P9	.9834		
		R5P10	.9850		
		R5P11	.9880		

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	71	FLIGHT DATE	09/13/79	SPIKE POS. DX/MC	.4577	AMBIENT TEMP	306.7 DEG K	MAX-MIN DIST	.0181
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9203 ATMOS	K-CIRCUMF.	.0368
START	5:17: 7.000	INTERVAL	1.000	ENG. FACE REC'D	.9743	ENGINE M/M	.6287	K-RADIAL	.0448
STOP	5:17:37.000	ENG COM RPM	4172.	ENG. FACE MACH NO	.2269	COWL M/M	.3683	K-DELTA	.0050
				COWL LIP REC'D	.9654	ADDITIVE M/M	.2604	K-A	.0498
				MACH AT COWL LIP	.1757				

SPIKE R1		COWL R3		STAT XCM/MC= 5.4830	
STAT XCM/MC= .4733	STAT XCM/MC= .0700	36 DEG RAKE	198 DEG RAKE		
S2 .9468	S14 .9428	A36 .9700	A198 .9745		
R1P1 1.0032	R3P1 .9416	M36 .9774	M198 .9787		
R1P2 1.0095	R3P2 .9416	C36 .9804	C198 .9813		
R1P3 1.0085	R3P3 .9413	D36 .9793	D198 .9715		
R1P4 1.0063	R3P4 .9415	E36 .9756	E198 .9662		
R1P5 1.0023	R3P5 .9415	90 DEG RAKE	252 DEG RAKE		
R1P6 1.0044	R3P6 .9415	A90 .9736	A252 .9714		
R1P7 1.0053	R3P7 .9444	H90 .9783	H252 .9766		
R1P8 1.0050	R3P8 .9416	C90 .9752	C252 .9807		
R1P9 .9960	R3P9 .9457	D90 .9721	D252 .9755		
	R3P10 .9617	E90 .9681	E252 .9731		
	R3P11 .9922	144 DEG RAKE	324 DEG RAKE		
	R3P12 1.0000	A144 .9776	A324 .9711		
	R3P13 1.0083	M144 .9814	M324 .9769		
	R3P14 1.0081	D144 .9740	D324 .9749		
	R3P15 1.0083	C144 .9688	C324 .9706		
	R3P16 1.0085	E144 .9637	E324 .9707		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/MC= 1.8683	STAT XCM/MC= 1.5340			SPIKE		COWL	
S9 .9212	S20 .8726	TAP	XCM/RL	P/P0	IAP	XCM/RC	P/P0
R2P1 .9585	R4P1 .9842	S1 .9243	.9416	S14 .0340	.9428		
R2P2 .9773	R4P2 .9934	S2 .4733	.9466	S15 .1860	.9348		
R2P3 .9948	R4P3 .9952	S11 .4733	.9404	S16 .4150	.9425		
R2P4 .9897	R4P4 .9954	S12 .4733	.9415	S17 .8470	.9536		
R2P5 .9699	R4P5 .9963	S13 .4733	.9452	S18 1.1740	.9426		
	R4P6 .9968	S3 .5413	.9475	S19 1.4590	.9337		
	R4P7 .9977	S4 .8073	.9390	S20 1.5400	.8726		
	R4P8 .9984	S5 1.0433	.9335	S21 1.8270	.9190		
	R4P9 .9988	S6 1.2403	.9342	S22 2.7840	.9315		
	R4P10 .9994	S7 1.4183	.9306	S23 3.2980	.9455		
	R4P11 1.0005	S8 1.5503	.9223	S26 5.2890	.9384		
	R4P12 1.0006	S9 1.9133	.9212				
		S10 2.2493	.9296				
		S27 5.3000	.9413				
		S28 1.0433	.9852				

SPIKE R6		COWL R5	
STAT XCM/MC= 3.5040	STAT XCM/MC= 3.3270		
S23 .9455	S23 .9455		
R6P1 .9614	R5P1 .9588		
R6P2 .9683	R5P2 .9588		
R6P3 .9689	R5P3 .9600		
R6P4 .9669	R5P4 .9605		
R6P5 .9672	R5P5 .9615		
R6P8 .9722	R5P6 .9627		
R6P9 .9749	R5P7 .9667		
R6P10 .9812	R5P8 .9738		
R6P11 .9816	R5P9 .9827		
	R5P10 .9925		
	R5P11 .9931		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	72	FLIGHT DATE 09/13/79	SPIKE POS. OX/RC	.4577	AMBIENT TEMP	306.7 DEG K	MAX-MIN DIST	.0331
		FLIGHT NO.	0		AMBIENT PRESS	.9195 ATMUS	K-CIRCUMF.	.5716
START	5:19:00.007	INTERVAL	1.000	ENG. FACE RECUV	.9651	ENGINE M/M	K-RADIAL	.0539
STOP	5:19:29.998	ENG LOP RPM	4641.	ENG. FACE MACH NO	.2044	COWL M/M	K-DELTA	.0225
				COWL LIP RECUV	.9504	ADDITIVE M/M	K-A	.0761
				MACH AT COWL LIP	.2049			

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.4733	STAT XCW/RC=	.0700	36 DEG HAKE	148 DEG HAKE
S2	.9240	S14	.9220	A36	.9544 A148
R1P1	1.0020	R3P1	.9206	H36	.9703 H148
R1P2	1.0019	R3P2	.9204	C36	.9732 C148
R1P3	1.0029	R3P3	.9201	H36	.9700 H148
R1P4	1.0029	R3P4	.9201	E36	.9651 E148
R1P5	1.0023	R3P5	.9194	90 DEG HAKE	252 DEG HAKE
R1P6	1.0029	R3P6	.9202	A90	.9647 A252
R1P7	1.0029	R3P7	.9202	H90	.9733 H252
R1P8	1.0025	R3P8	.9203	C90	.9725 C252
R1P9	.9948	R3P9	.9258	H90	.9650 H252
		R3P10	.9451	E90	.9587 E252
		R3P11	.9860	144 DEG HAKE	324 DEG HAKE
		R3P12	.9482	A144	.9644 A324
		R3P13	1.0041	H144	.9800 H324
		R3P14	1.0042	C144	.9654 C324
		R3P15	1.0043	E144	.9570 E324
		R3P16	1.0047		.9480

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.8683	STAT XCW/RC=	1.5380	SPIKE			
S9	.8908	S20	.8266	XCW/RC	P/PO	IAP	COWL
R2P1	.9461	R4P1	.9782	S1	.9243	.9228	XCW/RC
R2P2	.9718	R4P2	.9906	S2	.9733	.9240	P/PO
R2P3	.9884	R4P3	.9920	S11	.9733	.9214	S14
R2P4	.9859	R4P4	.9935	S12	.9733	.9247	S15
R2P5	.9567	R4P5	.9943	S13	.9733	.9282	S16
		R4P6	.9946	S3	.9413	.9307	S17
		R4P7	.9960	S4	.9073	.9182	S18
		R4P8	.9963	S5	1.0433	.9102	S19
		R4P9	.9961	S6	1.2903	.9112	S20
		R4P10	.9968	S7	1.4183	.9064	S21
		R4P11	.9989	S8	1.5503	.8945	S22
		R4P12	.9947	S9	1.9133	.8908	S23
				S10	2.2493	.9046	S26
				S27	5.3000	.9212	
				S28	1.0433	.9805	

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.9235	S23	.9235
R6P1	.9460	R5P1	.9400
R6P2	.9591	R5P2	.9408
R6P3	.9554	R5P3	.9429
R6P4	.9548	R5P4	.9439
R6P5	.9561	R5P5	.9448
R6P6	.9641	R5P6	.9466
R6P7	.9673	R5P7	.9515
R6P8	.9705	R5P8	.9635
R6P9	.9743	R5P9	.9763
R6P10		R5P10	.9871
R6P11		R5P11	.9909

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	76	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.4558	AMBIENT TEMP	306.1 DEG K	MAX-MIN DIST	.0558
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9210 ATMOS	K-CIRCUMF.	.4273
START	5:34:45.003	INTERVAL 1.000	ENG. FALC RECOV	.9379	ENGINE M/M*	.7444	K-RADIAL	.0762
STOP	5:35:15.000	ENG LUM RPM 5571.	ENG. FALC MACH NO	.3535	COWL M/M*	.5288		
			COWL LIP RECOV	.9162	ADDITIVE M/M*	.2196	K-DELTA	.0204
			MACH AT COWL LIP	.2728			K-A	.0966

SPIKE R1		COWL K3		STAT XCW/MC= 5.4830	
STAT XCW/MC= .4752	STAT XCW/MC= .0700	30 DEG MAKE	198 DEG MAKE		
S2 .8735	S14 .8000	A36 .9250	A198 .9299		
R1P1 .9967	K3P1 .8649	B36 .9482	B198 .9454		
R1P2 .9986	R3P2 .8647	C36 .9547	C198 .9516		
R1P3 1.0004	K3P3 .8641	D36 .9485	D198 .9412		
R1P4 1.0001	K3P4 .8642	E36 .9544	E198 .9254		
R1P5 1.0004	K3P5 .8642	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0006	R3P6 .8644	A90 .9584	A252 .9357		
R1P7 1.0006	R3P7 .9646	B90 .9510	B252 .9440		
R1P8 .9978	K3P8 .8656	C90 .9450	C252 .9426		
R1P9 .9933	R3P9 .8810	D90 .9548	D252 .9349		
	K3P10 .9263	E90 .9220	E252 .9182		
	K3P11 .9905	144 DEG MAKE	324 DEG MAKE		
	K3P12 .9947	A144 .9521	A324 .9306		
	R3P13 1.0070	B144 .9631	B324 .9466		
	K3P14 1.0069	D144 .9513	C324 .9437		
	K3P15 1.0070	C144 .9210	D324 .9308		
	K3P16 1.0079	E144 .9108	E324 .9260		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/MC= 1.8702	STAT XCW/MC= 1.5380			SPIKE		COWL	
S9 .8100	S20 .6943	TAP	XCW/MC	P/PO	IAP	XCW/MC	P/PO
R2P1 .8975	K4P1 .9525	S1 .9262	.8721	S14 .0340	.8666		
R2P2 .9455	K4P2 .9733	S2 .9752	.8735	S15 .1860	.8578		
R2P3 .9795	K4P3 .9762	S11 .9752	.8710	S16 .4150	.8747		
R2P4 .9733	K4P4 .9788	S12 .9752	.8715	S17 .8470	.8951		
R2P5 .9152	K4P5 .9796	S13 .9752	.8785	S18 1.1740	.8673		
	K4P6 .9806	S3 .9432	.8862	S19 1.4590	.8446		
	K4P7 .9830	S4 .8042	.8630	S20 1.5400	.6943		
	K4P8 .9852	S5 1.0452	.8473	S21 1.8270	.8048		
	K4P9 .9870	S6 1.2422	.8468	S22 2.7840	.8384		
	K4P10 .9900	S7 1.4202	.8375	S23 3.2980	.8623		
	K4P11 .9922	S8 1.5522	.8133	S26 5.2890	.8560		
	K4P12 .9957	S9 1.9152	.8100				

SPIKE R6		COWL K5			
STAT XCW/MC= 3.5040	STAT XCW/MC= 3.3270				
S23 .8623	S23 .8623	S27 5.3000	.8636		
K6P1 .9032	K5P1 .8896	S28 1.0452	.9646		
R6P2 .9198	K5P2 .8921				
K6P3 .9162	K5P3 .8926				
K6P4 .9193	K5P4 .8930				
K6P5 .9218	K5P5 .8961				
K6P6 .9337	K5P6 .8942				
K6P9 .9401	K5P7 .9063				
K6P10 .9452	K5P8 .9220				
K6P11 .9519	K5P9 .9469				
	K5P10 .9642				
	K5P11 .9768				

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	77	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.4558	AMBIENT TEMP	307.8 DEG K	MAX-MIN DIST	.0520
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9201 ATMOS	K=CIRCUMF.	.4184
START	5:37:10.001	INTERVAL 1.000	ENG. FALC RECOV	.9362	ENGINE M/M*	.7522	K=RADIAL	.0766
STOP	5:37:39.998	ENG CUL RPM 5660.	ENG. FALC MACH NO	.3627	COWL M/M*	.5361		
			COWL LIP RECOV	.9120	ADDITIVE M/M*	.2161	K=DELTA	.0223
			MACH AT COWL LIP	.2784			K=A	.0989

SPIKE R1		COWL R3		STAT XCLW/RC= 5.4830	
STAT XCLW/RC=	.4752	STAT XCLW/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8692	S14	.8591	A36	.9279 A198
R1P1	.9997	R3P1	.8587	B36	.9481 M198
R1P2	.9998	R3P2	.8588	C36	.9490 C198
R1P3	1.0013	R3P3	.8588	D36	.9415 D198
R1P4	1.0010	R3P4	.8588	E36	.9352 E198
R1P5	1.0014	R3P5	.8584	90 DEG HAKE	252 DEG HAKE
R1P6	.9993	R3P6	.8584	A90	.9370 A252
R1P7	1.0014	R3P7	.9683	H90	.9533 H252
R1P8	1.0014	R3P8	.8601	C90	.9448 C252
R1P9	.9921	R3P9	.8725	D90	.9315 D252
		R3P10	.9073	E90	.9200 E252
		R3F11	.9686	144 DEG HAKE	324 DEG HAKE
		R3P12	.9918	A144	.9498 A324
		R3P13	1.0076	H144	.9524 H324
		R3P14	1.0076	D144	.9292 D324
		R3P15	1.0077	C144	.9202 C324
		R3P16	1.0081	E144	.9112 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCLW/RC=	1.8702	STAT XCLW/RC=	1.5380	SPIKE		COWL	
S9	.8015	S20	.6777	XCLW/RC	P/PO	XCLW/RC	P/PO
R2P1	.8984	R4P1	.9491	S1	.3262 .8672	S14	.0340 .8591
R2P2	.9435	R4P2	.9647	S2	.4752 .8692	S15	.1860 .8499
R2P3	.9728	R4P3	.9746	S11	.4752 .8669	S16	.4150 .8683
R2P4	.9677	R4P4	.9764	S12	.4752 .8675	S17	.8470 .8900
R2P5	.9113	R4P5	.9773	S13	.4752 .8741	S18	1.1740 .8612
		R4P6	.9747	S3	.5432 .8822	S19	1.4590 .8386
		R4F7	.9827	S4	.8042 .8584	S20	1.5400 .6777
		R4P8	.9847	S5	1.0452 .8413	S21	1.8270 .7961
		R4P9	.9866	S6	1.2422 .8406	S22	2.7840 .8324
		R4P10	.9867	S7	1.4202 .8308	S23	3.2980 .8565
		R4P11	.9910	S8	1.5522 .8051	S26	5.2890 .8506
		R4P12	.9939	S9	1.9152 .8015		
				S10	2.2512 .8256		
				S27	3.3000 .8502		
				S28	1.0452 .9639		

SPIKE R6		COWL R5	
STAT XCLW/RC=	3.5040	STAT XCLW/RC=	3.3270
S23	.8565	S23	.8565
R6P1	.9008	R5P1	.8852
R6P2	.9154	R5P2	.8866
R6P3	.9124	R5P3	.8879
R6P4	.9154	R5P4	.8898
R6P5	.9189	R5P5	.8926
R6P6	.9302	R5P6	.8939
R6P9	.9374	R5P7	.8998
R6P10	.9422	R5P8	.9184
R6P11	.9505	R5P9	.9423
		R5P10	.9651
		R5P11	.9772

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	79	FLIGHT DATE	09/13/79	SPIKE POS. DX/NC	.4558	AMBIENT TEMP	307.8 DEG K	MAX-MIN DIST	.0663
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9199 ATMOS	K-CIRCUMF.	.3739
START	5:41:18.001	INTERVAL	1.000	ENG. FALC RECUV	.9290	ENGINE M/M*	.7747	K-RADIAL	.0630
STOP	5:41:48.000	ENG CUM RPM	5858.	ENG. FALC MACH NO	.3827	COWL M/M*	.5727	K-DELTA	.0086
				COWL LIP RECUV	.9084	ADDITIVE M/M*	.2020	K-A	.0917
				MACH AT COWL LIP	.3008				

SPIKE R1		COWL K3		STAT ALW/NC= 5.4830	
STAT XCW/RC=	.4752	STAT XCW/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.8592	S14	.8471	A36	.9160 A198
K1P1	1.0018	K3P1	.8464	B36	.9414 B198
K1P2	1.0022	K3P2	.8458	C36	.9488 C198
K1P3	1.0032	K3P3	.8452	D36	.9422 D198
K1P4	1.0012	K3P4	.8450	E36	.9303 E198
K1P5	1.0020	K3P5	.8446	90 DEG RAKE	252 DEG RAKE
K1P6	1.0022	K3P6	.8445	A90	.9228 A252
K1P7	1.0010	K3P7	.9657	H90	.9344 H252
K1P8	1.0029	K3P8	.8497	C90	.9431 C252
K1P9	.9966	K3P9	.8781	D90	.9280 D252
		K3P10	.9422	E90	.9161 E252
		K3P11	.9984	144 DEG RAKE	324 DEG RAKE
		K3P12	.9951	A144	.9442 A324
		K3P13	1.0079	B144	.9540 B324
		K3P14	1.0080	D144	.9196 D324
		K3P15	1.0079	C144	.9074 C324
		K3P16	1.0085	E144	.8452 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	1.4702	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.7774	S20	.6418	XCW/RC	P/PO	IAP	XCW/RC P/PO
K2P1	.8812	K4P1	.9487	S1	.9262 .8565	S14	.0340 .8471
K2P2	.9378	K4P2	.9717	S2	.8752 .8592	S15	.1860 .8377
K2P3	.9784	K4P3	.9759	S11	.4752 .8566	S16	.4150 .8606
K2P4	.9720	K4P4	.9788	S12	.4752 .8556	S17	.8470 .8812
K2P5	.9045	K4P5	.9805	S13	.4752 .8621	S18	1.1740 .8483
		K4P6	.9817	S3	.9432 .8733	S19	1.4590 .8220
		K4P7	.9831	S4	.8042 .8457	S20	1.5400 .6418
		K4P8	.9844	S5	1.0452 .8252	S21	1.8270 .7732
		K4P9	.9863	S6	1.2422 .8240	S22	2.7840 .8137
		K4P10	.9886	S7	1.4202 .8121	S23	3.2980 .8400
		K4P11	.9902	S8	1.5522 .7812	S26	5.2890 .8355
		K4P12	.9918	S9	1.9152 .7774		

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8400	S23	.8400
K6P1	.8887	K5P1	.8709
K6P2	.9068	K5P2	.8722
K6P3	.9046	K5P3	.8746
K6P4	.9078	K5P4	.8765
K6P5	.9091	K5P5	.8742
K6P6	.9232	K5P6	.8830
K6P7	.9303	K5P7	.8848
K6P10	.9357	K5P8	.9117
K6P11	.9434	K5P9	.9344
		K5P10	.9624
		K5P11	.9769

YF-12 INLET NOISE SUPPRESSION STUDY								
RUN	80	FLIGHT DATE 09/13/79	SPK POS. DX/KC	.4556	AMBIENT TEMP	308.3 DEG K	MAX-MIN DIST	.0621
		FLIGHT NO. 0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9201 ATMUS	K-CIRCUMF.	.3664
START	5:42:50.000	INTERVAL 1.000	ENG. FALC RECUV	.9278	ENGINE M/M*	.7971	K-RADIAL	.0793
STOP	5:43:19.999	ENG LUK RPM 6002.	ENG. FALC MACH NO	.3661	COWL M/M*	.5702		
			COWL LIP RECUV	.9071	AUDITIVE M/M*	.2269	K-DELTA	.0241
			MACH AT COWL LIP	.2498			K-A	.1034

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC= .4752	STAT XCW/RC= .0700			36 DEG HAKE	198 DEG HAKE
S2 .8572	S14 .8472	A36 .9150	A198 .9186		
R1P1 .9991	R3P1 .8451	B36 .9406	B198 .9343		
R1P2 .9992	R3P2 .8454	C36 .9498	C198 .9524		
R1P3 1.0010	R3P3 .8449	D36 .9417	D198 .9306		
R1P4 1.0005	R3P4 .8447	E36 .9290	E198 .9109		
R1P5 1.0006	R3P5 .8447	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0011	R3P6 .8447	A90 .9305	A252 .9219		
R1P7 1.0013	R3P7 .9646	M90 .9491	M252 .9337		
R1P8 1.0010	R3P8 .8491	C90 .9416	C252 .9294		
R1P9 .9954	R3P9 .8753	D90 .9267	D252 .9264		
	R3P10 .9379	E90 .9136	E252 .9028		
	R3P11 .9986	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9944	A144 .9395	A324 .9208		
	R3P13 1.0079	M144 .9542	M324 .9408		
	R3P14 1.0078	D144 .9186	D324 .9315		
	R3P15 1.0076	C144 .9076	C324 .9161		
	R3P16 1.0081	E144 .8965	E324 .9115		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC= 1.0702	STAT XCW/RC= 1.5380			SPIKE		COWL	
S9 .7720	S20 .6333	TAP	XCW/RC	P/PO	TAP	XCW/RC	P/PO
R2P1 .8812	R4P1 .9473	S1 .5262	.8548	S14 .0340	.8472		
R2P2 .9425	R4P2 .9699	S2 .4752	.8572	S15 .1860	.8374		
R2P3 .9795	R4P3 .9740	S11 .4752	.8536	S16 .4150	.8588		
R2P4 .9696	R4P4 .9761	S12 .4752	.8562	S17 .8470	.8787		
R2P5 .8994	R4P5 .9791	S13 .4752	.8628	S18 1.1740	.8459		
	R4P6 .9800	S3 .5432	.8714	S19 1.4590	.8189		
	R4P7 .9822	S4 .8042	.8451	S20 1.5400	.6333		
	R4P8 .9842	S5 1.0452	.8222	S21 1.8270	.7685		
	R4P9 .9868	S6 1.2422	.8201	S22 2.7840	.8084		
	R4P10 .9906	S7 1.4202	.8082	S23 3.2980	.8370		
	R4P11 .9927	S8 1.5522	.7766	S26 5.2890	.8327		
	R4P12 .9952	S9 1.9152	.7720				
		S10 2.2512	.8014				
		S27 5.3000	.8404				
		S28 1.0452	.9549				

SPIKE R6		COWL R5	
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270		
S23 .8370	S23 .8370		
R6P1 .8857	R5P1 .8681		
R6P2 .9033	R5P2 .8698		
R6P3 .9008	R5P3 .8725		
R6P4 .9036	R5P4 .8734		
R6P5 .9066	R5P5 .8771		
R6P8 .9167	R5P6 .8811		
R6P9 .9262	R5P7 .8866		
R6P10 .9326	R5P8 .9090		
R6P11 .9406	R5P9 .9403		
	R5P10 .9671		
	R5P11 .9797		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	81	FLIGHT DATE	09/13/79	SPIKE POS. DX/KC	.4558	AMBIENT TEMP	308.3 DEG K	MAX-MIN DIST	.0775
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9207 ATMOS	K-CIRCUMF.	.5231
START	5145132.001	INTERVAL	1.000	ENG. FACE RECOV	.9201	ENGINE M/M*	.8223	K-RADIAL	.0877
STOP	514611.999	ENG COM RPM	6165.	ENG. FACE MACH NO	.4086	COWL M/M*	.5850		
				COWL LIP RECOV	.8474	ADDITIVE M/M*	.2373	K-DELTA	.0096
				MACH AT COWL LIP	.3122			K-A	.0973

SPIKE R1		COWL K3		STAT XLM/KC= 5.4830	
STAT XCM/KC= .4752	STAT XLM/KC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .8453	S14 .8332	A36 .4042	A198 .9129		
K1P1 .9988	K3P1 .8325	M36 .4336	B198 .9349		
K1P2 .9986	K3P2 .8318	C36 .4424	C198 .9531		
K1P3 1.0005	K3P3 .8323	D36 .4365	D198 .9220		
R1P4 1.0000	K3P4 .8317	E36 .4218	E198 .8985		
R1P5 1.0005	K3P5 .8317	90 DEG HAKE	252 DEG HAKE		
K1P6 1.0006	K3P6 .8319	A90 .4044	A252 .9181		
K1P7 1.0004	K3P7 .4615	H90 .4334	B252 .9334		
K1P8 1.0002	K3P8 .8351	C90 .4305	C252 .9274		
K1P9 .9928	K3P9 .8580	D90 .4146	D252 .9175		
	K3P10 .4203	E90 .4014	E252 .8961		
	K3P11 .4440	144 DEG HAKE	324 DEG HAKE		
	K3P12 .9940	A144 .4375	A324 .9119		
	K3P13 1.0070	B144 .4467	B324 .9337		
	K3P14 1.0070	D144 .4086	C324 .9261		
	K3P15 1.0072	C144 .8452	D324 .9117		
	K3P16 1.0076	E144 .8618	E324 .9022		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/KC= 1.8702	STAT XLM/KC= 1.5380			SPIKE		COWL	
S9 .7525	S20 .6069	TAP	XLM/KC	P/PO	IAP	XCM/KC	P/PO
R2P1 .8716	K4P1 .4405	S1 .3262	.8428	S14 .0340	.8332		
R2P2 .9363	K4P2 .9662	S2 .4752	.8453	S15 .1860	.8240		
R2P3 .9763	K4P3 .4707	S11 .4752	.8430	S16 .4150	.8454		
R2P4 .9667	K4P4 .4726	S12 .4752	.8439	S17 .8470	.8687		
R2P5 .8904	K4P5 .4744	S13 .4752	.8484	S18 1.1740	.8323		
	K4P6 .4754	S3 .3432	.8607	S19 1.4590	.8020		
	K4P7 .4802	S4 .8042	.8310	S20 1.5400	.6069		
	K4P8 .4818	S5 1.0452	.8081	S21 1.8270	.7457		
	K4P9 .4846	S6 1.2422	.8058	S22 2.7840	.7927		
	K4P10 .4872	S7 1.4202	.7923	S23 3.2980	.8211		
	K4P11 .4849	S8 1.5522	.7556	S26 5.2690	.8129		
	K4P12 .4929	S9 1.4152	.7525				
		S10 2.2512	.7836				
		S27 5.3000	.8260				
		S28 1.0452	.4563				

SPIKE R6		COWL K5	
STAT XCM/KC= 3.5040	STAT XLM/KC= 3.3270		
S23 .8211	S23 .8211		
K6P1 .8745	K5P1 .8557		
K6P2 .8950	K5P2 .8572		
K6P3 .8916	K5P3 .8591		
K6P4 .8951	K5P4 .8546		
K6P5 .8971	K5P5 .8637		
K6P8 .9152	K5P6 .8663		
K6P9 .9230	K5P7 .8724		
K6P10 .9293	K5P8 .8971		
K6P11 .9389	K5P9 .4244		
	K5P10 .4576		
	K5P11 .4744		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	82	FLIGHT DATE 09/13/79	SPIKE POS. DX/KC	.4558	AMBIENT TEMP	308.9 DEG K	MAX=MIN DIST	.0868
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9207 ATMUS	K=CIRCUMF.	.3229
START	5:47:20.003	INTERVAL 1.000	ENG.FACE RECUV	.9190	ENGINE M/M*	.8284	K=RADIAL	.0945
STOP	5:47:49.999	ENG CUR RPM 6202.	ENG.FACE MACH NO	.4110	COWL M/M*	.5830	K=DELTA	.0154
			COWL LIP RECUV	.8470	ADDITIVE M/M*	.2455	K=A	.1099
			MACH AT COWL LIP	.3113				

SPIKE R1		COWL K3		STAT XCM/KC= 5.4830	
STAT XCM/KC=	.4752	STAT XCM/KC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.8467	S14	.8307	A36	.9000 A198
R1P1	.9957	K3P1	.8296	B36	.9320 B198
R1P2	.9967	K3P2	.8296	C36	.9421 C198
R1P3	1.0001	K3P3	.8293	D36	.9342 D198
R1P4	.9958	K3P4	.8291	E36	.9205 E198
R1P5	1.0002	K3P5	.8290	90 DEG MAKE	252 DEG MAKE
R1P6	.9997	K3P6	.8287	A90	.9174 A252
R1P7	.9942	K3P7	.9572	H90	.9395 H252
R1P8	.9949	K3P8	.8311	C90	.9343 C252
R1P9	.9878	K3P9	.8538	D90	.9115 D252
		K3P10	.9183	E90	.8962 E252
		K3P11	.9952	144 DEG MAKE	324 DEG MAKE
		K3P12	.9940	A144	.9325 A324
		K3P13	1.0072	B144	.9470 B324
		K3P14	1.0070	D144	.9057 D324
		K3P15	1.0073	C144	.8907 C324
		K3P16	1.0070	E144	.8750 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/KC=	1.8702	STAT XCM/KC=	1.5380	SPIKE		COWL	
S9	.7459	S20	.60*	XCM/KC	P/PO	XCM/KC	P/PO
R2P1	.8690	K4P1	.9372	TAP			
R2P2	.9321	K4P2	.9651	S1	.3202	S14	.0340
R2P3	.9771	K4P3	.9691	S2	.4752	S15	.1860
R2P4	.9639	K4P4	.9727	S11	.4752	S16	.4150
R2P5	.8918	K4P5	.9744	S12	.4752	S17	.8470
		K4P6	.9766	S13	.4752	S18	1.1740
		K4P7	.9800	S3	.5432	S19	1.4590
		K4P8	.9818	S4	.8092	S20	1.5400
		K4P9	.9838	S5	1.0452	S21	1.8270
		K4P10	.9875	S6	1.2422	S22	2.7840
		K4P11	.9911	S7	1.4202	S23	3.2980
		K4P12	.9929	S8	1.5522	S26	5.2890
				S9	1.9152		
				S10	2.2512		
				S27	5.3000		
				S28	1.0452		

SPIKE K6		COWL K5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.8161	S23	.8161
K6P1	.8768	K5P1	.8507
K6P2	.8930	K5P2	.8520
K6P3	.8889	K5P3	.8558
K6P4	.8980	K5P4	.8574
K6P5	.8439	K5P5	.8605
K6P8	.9104	K5P6	.8626
K6P9	.9202	K5P7	.8704
K6P10	.9210	K5P8	.8940
K6P11	.9331	K5P9	.9274
		K5P10	.9581
		K5P11	.9729

*Estimated

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	83	FLIGHT DATE	09/13/79	SPIKE POS.	DX/MC	.4558	AMBIENT TEMP	309.4 DEG K	MAX-MIN DIST	.0855
		FLIGHT NO.	0	BYPASS POS.	CLOSED		AMBIENT PRESS	19204 ATMOS	K=CIRCUMF.	.3653
START	5:49:10.000	INTERVAL	1.000	ENG. FACE RECOV		.9144	ENGINE M/M*	.8431	K=RADIAL	.0832
STOP	5:49:39.999	ENG CUR RPM	6282.	ENG. FACE MACH NO		.4164	COWL M/M*	.5952		
				COWL LIP RECOV		.8432	ADDITIVE M/M*	.2478	K=DELTA	.0130
				MACH AT COWL LIP		.3202			K=A	.0962

SPIKE K1		COWL K3		STAT XCM/MC= 5.4850	
STAT XCM/MC=	.4752	STAT XCM/MC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.8386	S14	.8252	A36	.8492 A198
R1P1	.9910	R3P1	.8239	H36	.9305 B198
R1P2	.9895	R3P2	.8234	C36	.9408 C198
R1P3	.9778	R3P3	.8232	D36	.9313 D198
R1P4	.9889	R3P4	.8231	E36	.9180 E198
R1P5	.9871	R3P5	.8231	90 DEG MAKE	252 DEG MAKE
R1P6	.9570	R3P6	.8228	A90	.9107 A252
R1P7	1.0011	R3P7	.9628	B90	.9314 B252
R1P8	.9880	R3P8	.8248	C90	.9267 C252
R1P9	.9846	R3P9	.8676	D90	.9085 D252
		R3P10	.9455	E90	.8457 E252
		R3P11	1.0003	144 DEG MAKE	324 DEG MAKE
		R3P12	.9940	A144	.9326 A324
		R3P13	1.0077	B144	.9416 B324
		R3P14	1.0080	D144	.9004 D324
		R3P15	1.0075	C144	.8883 C324
		R3P16	1.0060	E144	.8761 E324

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCM/MC=	1.8702	STAT XCM/MC=	1.5380	SPIKE			COWL
S9	.7349	S20	.59*	XCM/MC	P/PU	IAP	XCM/MC
K2P1	.8603	K4P1	.9382	S1	.3202	.8352	S14
K2P2	.9311	K4P2	.9609	S2	.4752	.8386	S15
K2P3	.9661	K4P3	.9703	S11	.4752	.8345	S16
K2P4	.9702	K4P4	.9732	S12	.4752	.8376	S17
K2P5	.8799	K4P5	.9752	S13	.4752	.8422	S18
		K4P6	.9762	S3	.5432	.8554	S19
		K4P7	.9785	S4	.8042	.8226	S20
		K4P8	.9808	S5	1.0452	.7967	S21
		K4P9	.9843	S6	1.2422	.7945	S22
		K4P10	.9861	S7	1.4202	.7744	S23
		K4P11	.9901	S8	1.5522	.7386	S26
		K4P12	.9938	S9	1.9152	.7349	
				S10	2.2512	.7647	
				S27	5.3000	.8154	
				S28	1.0452	.9547	

SPIKE K6		COWL K5	
STAT XCM/MC=	3.5040	STAT XCM/MC=	3.3270
S23	.8077	S23	.8077
K6P1	.8704	K5P1	.8427
K6P2	.8895	K5P2	.8460
K6P3	.8869	K5P3	.8489
K6P4	.8893	K5P4	.8504
K6P5	.8896	K5P5	.8547
K6P6	.9069	K5P6	.8579
K6P7	.9158	K5P7	.8642
K6P10	.9201	K5P8	.8911
K6P11	.9244	K5P9	.9224
		K5P10	.9557
		K5P11	.9710

* Estimated

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	84	FLIGHT DATE 09/13/79	SPIKE POS. DX/RC	.4558	AMBIENT TEMP	309.4 DEG K	MAX-MIN DIST	.0432
		FLIGHT NU.	0		AMBIENT PRESS	.9205 ATMUS	K-CIRCUMF.	.3050
START	5:50:55.002	INTERVAL	1.000	ENG. FACE REC'DV	.9126	ENGINE M/M*	K-RADIAL	.0787
STOP	5:51:24.999	ENG COX RPM	6363.	ENG. FACE MACH NO	.4290	COWL M/M*	K-DELTA	.0284
				COWL LIP REC'DV	.8967	ADDITIVE M/M*	K-A	.1071
				MACH AT COWL LIP	.3415			

SPIKE R1		COWL M3		STAT XCM/RC= 5.4830	
STAT XCM/RC= .4752		STAT XCM/RC= .0700		36 DEG MAKE	198 DEG MAKE
S2	.8343	S14	.8201	A36	.8960 A198 .9011
R1P1	.9983	R3P1	.8187	H36	.9307 H198 .9313
R1P2	.9922	R3P2	.8184	C36	.9400 C198 .9508
R1P3	1.0005	R3P3	.8185	D36	.9312 D198 .9200
R1P4	1.0211	R3P4	.8478	E36	.9101 E198 .8906
R1P5	1.0007	R3P5	.8183	90 DEG MAKE 252 DEG MAKE	
R1P6	1.0008	R3P6	.8175	A90	.9106 A252 .9076
R1P7	1.0007	R3P7	.9576	H90	.9314 H252 .9170
R1P8	1.0003	R3P8	.8258	C90	.9248 C252 .9131
R1P9	.9878	R3P9	.8672	D90	.9086 D252 .9016
		R3P10	.9526	E90	.8930 E252 .8846
		R3P11	1.0027	144 DEG MAKE 324 DEG MAKE	
		R3P12	.9430	A144	.9337 A324 .9020
		R3P13	1.0075	H144	.9407 H324 .9241
		R3P14	1.0071	D144	.9014 D324 .9193
		R3P15	1.0073	C144	.8881 C324 .9030
		R3P16	1.0077	E144	.8744 E324 .8923

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCM/RC= 1.8702		STAT XCM/RC= 1.5380		SPIKE		COWL	
S9	.7265	S20	.578*	XCM/RC	P/PO	XCM/RC	P/PO
R2P1	.8588	R4P1	.9355	TAP		TAP	
R2P2	.9352	R4P2	.9645	S1	.5202 .8305 S14 .0340 .8201	S15	.1860 .8103
R2P3	.9668	R4P3	.9704	S2	.4752 .8343 S16 .4150 .8361	S17	.8470 .8579
R2P4	.9647	R4P4	.9724	S11	.4752 .8301 S18 1.1740 .8169	S19	1.4590 .7835
R2P5	.8750	R4P5	.9736	S12	.4752 .8333 S20 1.5400 .578*	S21	1.8270 .7169
		R4P6	.9754	S13	.4752 .8378 S22 2.7840 .7711	S23	3.2980 .8013
		R4P7	.9785	S3	.5432 .8883 S26 5.2890 .7989		
		R4P8	.9803	S4	.8042 .8170		
		R4P9	.9828	S5	1.0452 .7901		
		R4P10	.9854	S6	1.2422 .7867		
		R4P11	.9846	S7	1.4202 .7712		
		R4P12	.9917	S8	1.5522 .7272		
				S9	1.9152 .7265		
				S10	2.2512 .7602		
				S27	5.3000 .8079		
				S28	1.0452 .9533		

SPIKE R6		COWL M5		
STAT XCM/RC= 3.5040		STAT XCM/RC= 3.3270		
S23	.8013	S23	.8013	
R6P1	.8602	R5P1	.8184	
R6P2	.8825	R5P2	.8409	
R6P3	.8770	R5P3	.8427	
R6P4	.8841	R5P4	.8438	
R6P5	.8868	R5P5	.8477	
R6P6	.9038	R5P6	.8536	
R6P9	.9115	R5P7	.8540	
R6P10	.9220	R5P8	.8808	
R6P11	.9322	R5P9	.9166	
		R5P10	.9542	
		R5P11	.9726	

* Estimated

VF-12 INLET NOISE SUPPRESSION STUDY
 RUN 85 FLIGHT DATE 09/13/79 SPIKE POS. DX/KC .4558 AMBIENT TEMP 308.9 DEG K MAX-MIN DIST .0930
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9206 ATMOS K-CIRCUMF. .2764
 START 5:52150.000 INTERVAL 1.000 ENG. FACE RECOV .9865 ENGINE M/M* J8898 K-RADIAL .0785
 STOP 5:53119.999 ENG CUM RPM 6507. ENG. FACE MACH NO .4411 COWL M/M* .6134 K-DELTA .0230
 COWL LIP RECOV .8844 ADDITIVE M/M* .2764 K-A .1015
 MACH AT COWL LIP .3352

SPIKE R1		COWL R3		STAT ALW/MC= 5.4830	
STAT	XCW/MC= .4752	STAT	XCW/MC= .0700	36 DEG HAKE	198 DEG HAKE
S2	.8245	S14	.8120	A36	.8863 A198 .9004
R1P1	.9986	R3P1	.8111	H36	.9242 B198 .9302
R1P2	.9990	R3P2	.8108	C36	.9344 C198 .9450
R1P3	1.0005	R3P3	.8108	D36	.9250 D198 .9063
R1P4	.9996	R3P4	.8103	E36	.9084 E198 .8800
R1P5	1.0007	R3P5	.8106	90 DEG HAKE	252 DEG HAKE
R1P6	1.0008	R3P6	.8103	A90	.9058 A252 .9073
R1P7	1.0006	R3P7	.9591	H90	.9321 B252 .9179
R1P8	.9999	R3P8	.8130	C90	.9201 C252 .9126
R1P9	.9940	R3P9	.8342	D90	.8470 D252 .8493
		R3P10	.9192	E90	.8774 E252 .8769
		R3P11	.9992	144 DEG HAKE	324 DEG HAKE
		R3P12	.9921	A144	.9335 A324 .8969
		R3P13	1.0073	H144	.9386 B324 .9250
		R3P14	1.0074	D144	.8924 C324 .9126
		R3P15	1.0075	C144	.8765 D324 .8922
		R3P16	1.0076	E144	.8607 E324 .8823

SPIKE R2		COWL R4		STATIC PRESSURES		COWL		
STAT	XCW/MC= 1.8702	STAT	XCW/MC= 1.5346	SPIKE	P/PO	IAP	XCW/MC	P/PO
S9	.7051	S26	.5560*	ALW/MC				
R2P1	.8477	R4P1	.9309	S1	.3262	.8219	S14	.0340 .8120
R2P2	.9256	R4P2	.9610	S2	.4752	.8245	S15	.1800 .8026
R2P3	.9757	R4P3	.9655	S11	.4752	.8234	S16	.4150 .8264
R2P4	.9622	R4P4	.9663	S12	.4752	.8253	S17	.8470 .8509
R2P5	.8638	R4P5	.9713	S13	.4752	.8300	S18	1.1740 .8079
		R4P6	.9719	S3	.5432	.8432	S19	1.4590 .7721
		R4P7	.9753	S4	.8042	.8084	S20	1.5400 .5560*
		R4P8	.9780	S5	1.0452	.7794	S21	1.8270 .6985
		R4P9	.9814	S6	1.2422	.7759	S22	2.7840 .7576
		R4P10	.9852	S7	1.4202	.7594	S23	3.2980 .7893
		R4P11	.9883	S8	1.5522	.7096	S26	5.2890 .7871
		R4P12	.9915	S9	1.9152	.7051		
				S10	2.2512	.7452		
				S27	5.3000	.7971		
				S28	1.0452	.9509		

SPIKE R6		COWL R5	
STAT	XCW/MC= 3.5040	STAT	XCW/MC= 3.3270
S23	.7893	S23	.7893
R6P1	.8543	R5P1	.8272
R6P2	.8762	R5P2	.8244
R6P3	.8729	R5P3	.8326
R6P4	.8769	R5P4	.8332
R6P5	.8797	R5P5	.8375
R6P6	.8984	R5P6	.8341
R6P7	.9087	R5P7	.8492
R6P10	.9179	R5P8	.8735
R6P11	.9299	R5P9	.9104
		R5P10	.9480
		R5P11	.9720

* Estimated

YF-12 INLET NOISE SUPPRESSION STUDY

HUN	87	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.0546
START	2142:10.000	FLIGHT NO. 0	HYPASS POS. OPEN		AMBIENT PRESS	.9170 ATMOS	K-CIRCUMF.	.4837
STOP	2142:39.997	INTERVAL 1.000	ENG. FACE REC'D	.9411	ENGINE M/M*	.5643	K-RADIAL	.1533
		ENG LOH RPM 5012.	ENG. FACE MACH NO	.3254	COWL M/M*	.3379		
			COWL LIP REC'D	.9685	ADUITIVE M/M*	.2265	K-DELTA	.0175
			MACH AT COWL LIP	.2007			K-A	.1709

SPIKE R1		COWL M3		STAT XCM/KC# 5.4830	
STAT XCM/KC#	.0728	STAT XCM/KC#	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9648	S14	.9186	A36	.9504
R1P1	1.0007	R3P1	.9173	B36	.9377
R1P2	1.0010	R3P2	.9169	C36	.9272
R1P3	1.0012	R3P3	.9170	D36	.9177
R1P4	.9999	R3P4	.9171	E36	.9114
R1P5	1.0012	R3P5	.9168	90 DEG MAKE	252 DEG MAKE
R1P6	1.0012	R3P6	.9168	A90	.9628
R1P7	1.0011	R3P7	.9639	B90	.9617
R1P8	1.0009	R3P8	.9353	C90	.9532
R1P9	1.0000	R3P9	.9725	D90	.9447
		R3P10	.9977	E90	.9398
		R3P11	1.0011	144 DEG MAKE	324 DEG MAKE
		R3P12	.9978	A144	.9545
		R3P13	1.0018	B144	.9508
		R3P14	1.0016	D144	.9364
		R3P15	1.0018	C144	.9297
		R3P16	1.0018	E144	.9230

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCM/KC#	1.4678	STAT XCM/KC#	1.5380	SPIKE		COWL	
S9	.9440	S20	.9027	XCM/KL	P/P0	XCM/KC	P/P0
R2P1	.9505	R4P1	.9768	S1	.0762	S14	.0340
R2P2	.9562	R4P2	.9832	S2	.0728	S15	.1860
R2P3	.9694	R4P3	.9847	S11	.0728	S16	.4150
R2P4	.9837	R4P4	.9854	S12	.0728	S17	.8470
R2P5	.9857	R4P5	.9859	S13	.0728	S18	1.1740
		R4P6	.9865	S3	.1406	S19	1.4590
		R4P7	.9864	S4	.4066	S20	1.5400
		R4P8	.9864	S5	.6426	S21	1.8270
		R4P9	.9865	S6	.8696	S22	2.7840
		R4P10	.9865	S7	1.0176	S23	3.2980
		R4P11	.9854	S8	1.1496	S26	5.2890
		R4P12	.9844	S9	1.5126		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL M5	
STAT XCM/KC#	3.5040	STAT XCM/KC#	3.3270
S23	.8706	S23	.8706
R6P1	.9362	R5P1	.9165
R6P2	.9543	R5P2	.9205
R6P3	.9554	R5P3	.9245
R6P4	.9611	R5P4	.9284
R6P5	.9631	R5P5	.9316
R6P8	.9639	R5P6	.9396
R6P9	.9592	R5P7	.9575
R6P10	.9530	R5P8	.9711
R6P11	.9346	R5P9	.9694
		R5P10	.9677
		R5P11	.9659

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	HA	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.8 DEG K	MAX-MIN DIST	.0057
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9166 ATMUS	K-CIRCUMF.	.5061
START	2:48:33.001	INTERVAL 1.000	ENG. FARE RECOV	.4062	ENGINE M/M*	.6864	K-RADIAL	.1657
STOP	2:49: 2.998	ENG CUR RPM 6124.	ENG. FARE MACH NO	.4315	COWL M/M*	.4134		
			COWL LIP RECOV	.4516	ADDITIVE M/M*	.2730	K-DELTA	.0270
			MACH AT COWL LIP	.2536			K-A	.1927

SPIKE R1		COWL K3		STAT XLM/KC= 5.4830	
STAT XCM/KC= .0728	STAT XCM/KC= .0700	36 DEG MAKE	148 DEG MAKE		
S2 .9454	S14 .8747	A36 .9230	A148 .9300		
R1P1 1.0000	R3P1 .8723	H36 .4067	H148 .9357		
R1P2 1.0005	R3P2 .8722	C36 .8848	C148 .9239		
R1P3 1.0006	R3P3 .8721	D36 .8703	D148 .8841		
R1P4 .9989	R3P4 .8720	E36 .8546	E148 .8572		
R1P5 1.0007	R3P5 .8720	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0005	R3P6 .8724	A90 .9434	A252 .9301		
R1P7 1.0005	R3P7 .9745	H90 .9342	H252 .9106		
R1P8 1.0004	R3P8 .9160	C90 .9226	C252 .8971		
R1P9 .9985	R3P9 .9716	D90 .9113	D252 .8874		
	R3P10 .9946	E90 .9015	E252 .8783		
	R3P11 1.0009	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9953	A144 .9341	A324 .9280		
	R3P13 1.0014	H144 .9280	H324 .9340		
	R3P14 1.0011	D144 .8926	D324 .9151		
	R3P15 1.0014	L144 .8876	L324 .9019		
	R3P16 1.0013	E144 .8825	E324 .8860		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/KC= 1.4678	STAT XCM/KC= 1.5380	SPIKE		COWL			
S9 .9118	S20 .8498	ALM/KC	P/PU	IAP	XCM/KC	P/PU	
R2P1 .9214	R4P1 .9631	1AP					
R2P2 .9306	R4P2 .9737	S1	.0762	.9843	S14	.0340	.8747
R2P3 .9529	R4P3 .9755	S2	.0728	.9454	S15	.1860	.8709
R2P4 .9753	R4P4 .9711	S11	.0728	.9465	S16	.4150	.9106
R2P5 .9788	R4P5 .9780	S12	.0728	.9459	S17	.8470	.9045
	R4P6 .9780	S13	.0728	.9475	S18	1.1740	.9111
	R4P7 .9789	S3	.1408	.9231	S19	1.4590	.9117
	R4P8 .9786	S4	.4068	.8835	S20	1.5400	.8498
	R4P9 .9789	S5	.8428	.8874	S21	1.8270	.9076
	R4P10 .9788	S6	.8848	.8849	S22	2.7840	.7630
	R4P11 .9784	S7	1.0178	.8936	S23	3.2480	.7885
	R4P12 .9788	S8	1.1498	.9008	S26	5.2840	.7914
		S9	1.5128	.9118			
		S10	1.8488	.9077			
		S27	5.5000	.8006			
		S28	.8428	.9700			

SPIKE R6		COWL K5	
STAT XCM/KC= 3.5640	STAT XCM/KC= 3.3270		
S23 .7885	S23 .7885		
R6P1 .8969	R5P1 .8628		
R6P2 .9259	R5P2 .8712		
R6P3 .9306	R5P3 .8754		
R6P4 .9380	R5P4 .8817		
R6P5 .9434	R5P5 .8874		
R6P8 .9462	R5P6 .9033		
R6P9 .9404	R5P7 .9330		
R6P10 .9303	R5P8 .9574		
R6P11 .9011	R5P9 .9554		
	R5P10 .9504		
	R5P11 .9483		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	89	FLIGHT DATE 09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	288.9 DEG K	MAX-MIN DIST	.1039
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9170 ATMOS	K-CIRCUMF.	.2808
START	2:51:40.000	INTERVAL 1.000	ENG. FALC RECOV	.8588	ENGINE M/M*	.7109	K-RADIAL	.1621
STOP	2:52:10.000	ENG LUM RPM 6298.	ENG. FALC MACH NO	.4511	COWL M/M*	.4233	K-DELTA	.0280
			COWL LIP RECOV	.9474	ADDITIVE M/M*	.2876	K-A	.1902
			MACH AT COWL LIP	.2614				

SPIKE R1		COWL K3		STAT XCM/KC= 5.4830	
STAT XCM/KC= .0728	STAT XCM/KC= .0700	36 DEG KAKE	198 DEG KAKE		
S2	.9411	S14	.8658	A36	.9181
R1P1	.9994	R3P1	.8637	H36	.8981
R1P2	.9997	R3P2	.8635	C36	.8760
R1P3	.9999	R3P3	.8636	D36	.8618
R1P4	.9980	R3P4	.8634	E36	.8513
R1P5	.9998	R3P5	.8633	90 DEG KAKE	252 DEG KAKE
R1P6	.9998	R3P6	.8633	A90	.9373
R1P7	.9997	R3P7	.9723	H90	.9343
R1P8	.9997	R3P8	.9045	C90	.9143
R1P9	.9976	R3P9	.9715	D90	.9019
		R3P10	.9488	E90	.8920
		R3P11	1.0003	144 DEG KAKE	324 DEG KAKE
		R3P12	.9948	A144	.9290
		R3P13	1.0009	H144	.9235
		R3P14	1.0003	D144	.8854
		R3P15	1.0008	C144	.8810
		R3P16	1.0007	E144	.8767

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/KC= 1.4678	STAT XCM/KC= 1.5380			SPIKE	COWL		
S9	.9050	S20	.8380	XCM/KC	P/PU	TAP	XCM/KC
R2P1	.9143	R4P1	.9604	S1	.0762	.9830	S14
R2P2	.9238	R4P2	.9718	S2	.0728	.9411	S15
R2P3	.9472	R4P3	.9751	S11	.0728	.9426	S16
R2P4	.9734	R4P4	.9765	S12	.0728	.9422	S17
R2P5	.9768	R4P5	.9768	S13	.0728	.9434	S18
		R4P6	.9769	S3	.1408	.9175	S19
		R4P7	.9776	S4	.4068	.8751	S20
		R4P8	.9771	S5	.6428	.8798	S21
		R4P9	.9774	S6	.8848	.8817	S22
		R4P10	.9767	S7	1.0178	.8866	S23
		R4P11	.9756	S8	1.1448	.8938	S26
		R4P12	.9743	S9	1.5128	.9050	
				S10	1.8488	.9010	
				S27	5.3000	.7851	
				S28	.6428	.9676	

SPIKE R6		COWL K5	
STAT XCM/KC= 3.5040	STAT XCM/KC= 3.3270		
S23	.7714	S23	.7714
R6P1	.8891	R5P1	.8519
R6P2	.9195	R5P2	.8588
R6P3	.9200	R5P3	.8639
R6P4	.9325	R5P4	.8721
R6P5	.9372	R5P5	.8801
R6P6	.9407	R5P6	.8918
R6P9	.9350	R5P7	.9242
R6P10	.9251	R5P8	.9523
R6P11	.8953	R5P9	.9506
		R5P10	.9449
		R5P11	.9446

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	90	FLIGHT DATE	09/20/79	SPIKE POS. DX/HC	.8582	AMBIENT TEMP	287.8 DEG K	MAX=MIN DIST	.1066
		FLIGHT NO.	0	BYPASS POS.	UPEN	AMBIENT PRESS	.9171 ATMUS	K=CIRCUMF.	.2572
START	2:55:40.001	INTERVAL	1.000	ENG. FALC RECUV	.8936	ENGINE M/M*	.7344	K=RADIAL	.1592
STOP	2:56: 9.999	ENG CON RPM	6477.	ENG. FALC MACH NO	.4697	COWL M/M*	.4310	K=DELTA	.0262
				COWL LIP RECUV	.9444	ADDITIVE M/M*	.3034	K=A	.1854
				MACH AT COWL LIP	.2675				

SPIKE P1		COWL R3		STAT XCM/HCE 5.4830	
STAT XCM/RC*	.0728	STAT XCM/HC*	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9340	S14	.8541	A36	.4136 A198
R1P1	.9990	R3P1	.8574	H36	.8446 H198
R1P2	.9996	R3P2	.8573	C36	.8695 C198
R1P3	.9997	R3P3	.8571	U36	.8535 U198
R1P4	.9983	R3P4	.8571	E36	.8437 E198
R1P5	.9998	R3P5	.8572	90 DEG MAKE	252 DEG MAKE
R1P6	.9998	R3P6	.8569	A90	.9333 A252
R1P7	.9998	R3P7	.8589	H90	.9291 H252
R1P8	.9996	R3P8	.8557	C90	.9075 C252
R1P9	.9976	R3P9	.8667	U90	.8462 U252
		R3P10	.9982	E90	.8846 E252
		R3P11	1.0004	144 DEG MAKE	324 DEG MAKE
		R3P12	.9945	A144	.9245 A324
		R3P13	1.0009	H144	.9158 H324
		R3P14	1.0003	U144	.8787 U324
		R3P15	1.0007	C144	.8744 C324
		R3P16	1.0008	E144	.8710 E324

SPIKE M2		COWL M4		STATIC PRESSURES			
STAT XCM/RC*	1.4678	STAT XCM/HC*	1.5380	SPIKE	P/PO	IAP	COWL
S9	.8999	S20	.8297	XCM/HC			XCM/RC
R2P1	.9097	R4P1	.9570	S1	.0762	.4822	S14
R2P2	.9209	R4P2	.9701	S2	.0728	.4380	S15
R2P3	.9441	R4P3	.9725	S11	.0728	.4348	S16
R2P4	.9722	R4P4	.9736	S12	.0728	.4345	S17
R2P5	.9747	R4P5	.9746	S13	.0728	.4408	S18
		R4P6	.9757	S3	.1408	.4134	S19
		R4P7	.9753	S4	.4008	.8685	S20
		R4P8	.9757	S5	.6426	.8735	S21
		R4P9	.9760	S6	.8848	.8756	S22
		R4P10	.9751	S7	1.0178	.8803	S23
		R4P11	.9746	S8	1.1446	.8874	S26
		R4P12	.9730	S9	1.5128	.8949	
				S10	1.8488	.8959	
				S27	5.3000	.7719	
				S28	.6428	.9660	

SPIKE M6		COWL M5	
STAT XCM/RC*	3.5040	STAT XCM/HC*	3.3270
S23	.7574	S23	.7574
R6P1	.8833	R5P1	.8431
R6P2	.9126	R5P2	.8481
R6P3	.9196	R5P3	.8543
R6P4	.9292	R5P4	.8645
R6P5	.9345	R5P5	.8743
R6P8	.9388	R5P6	.8858
R6P9	.9337	R5P7	.9286
R6P10	.9216	R5P8	.9507
R6P11	.8887	R5P9	.9488
		R5P10	.9454
		R5P11	.9401

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	91	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	288.9 DEG K	MAX=MIN DIST	.1160
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9170 ATMUS	K=CIRCUMF.	.2448
START	2154:50.001	INTERVAL	1.000	ENG. FACE RECOV	.8880	ENGINE M/M	.7534	K=RADIAL	.1569
STOP	31 0119.999	ENG COM RPM	6699.	ENG. FACE MACH NO	.4878	COWL M/M	.4417	K=DELTA	.0308
				COWL LIP RECOV	.9425	ADDITIVE M/M	.3117	K=A	.1877
				MACH AT COWL LIP	.2154				

SPIKE R1		COWL R3		STAT XCM/RC= 5.4830	
STAT	XCM/RC= .0728	STAT	XCM/RC= .0700	36 DEG HAKE	198 DEG HAKE
S2	.9354	S14	.8529	A36	.9071
R1P1	.9994	R3P1	.8511	B36	.8874
R1P2	1.0002	R3P2	.8510	C36	.8825
R1P3	1.0003	R3P3	.8509	D36	.8446
R1P4	.9981	R3P4	.8506	E36	.8337
R1P5	1.0002	R3P5	.8508		
R1P6	1.0002	R3P6	.8507	90 DEG HAKE	252 DEG HAKE
R1P7	1.0003	R3P7	.8492	A90	.9326
R1P8	1.0002	R3P8	.8483	B90	.9284
R1P9	.9976	R3P9	.8473	C90	.9034
		R3P10	.9996	D90	.8891
		R3P11	1.0006	E90	.8783
		R3P12	.9448		
		R3P13	1.0010	144 DEG HAKE	324 DEG HAKE
		R3P14	1.0009	A144	.9230
		R3P15	1.0009	B144	.9127
		R3P16	1.0009	D144	.8733
				C144	.8684
				E144	.8646

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCM/RC= 1.4678	STAT	XCM/RC= 1.5380	SPIKE	P/PO	COWL	P/PO
				XCM/RC		XCM/RC	
S9	.8950	S20	.8216	S1	.90762	S14	.0340
R2P1	.9059	R4P1	.9509	S2	.9128	S15	.1860
R2P2	.9178	R4P2	.9691	S11	.9128	S16	.4150
R2P3	.9432	R4P3	.9719	S12	.9128	S17	.8470
R2P4	.9710	R4P4	.9738	S13	.9128	S18	1.1740
R2P5	.9752	R4P5	.9746	S3	.1408	S19	1.4590
		R4P6	.9755	S4	.4068	S20	1.5400
		R4P7	.9763	S5	.6428	S21	1.8270
		R4P8	.9754	S6	.8898	S22	2.7840
		R4P9	.9749	S7	1.0178	S23	3.2980
		R4P10	.9745	S8	1.1498	S26	5.2890
		R4P11	.9740	S9	1.3128		
		R4P12	.9725	S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL R5	
STAT	XCM/RC= 3.5040	STAT	XCM/RC= 3.3270
S23	.7425	S23	.7425
R6P1	.8749	R5P1	.8355
R6P2	.9090	R5P2	.8436
R6P3	.9157	R5P3	.8508
R6P4	.9256	R5P4	.8579
R6P5	.9310	R5P5	.8652
R6P8	.9351	R5P6	.8824
R6P9	.9294	R5P7	.9197
R6P10	.9194	R5P8	.9480
R6P11	.8837	R5P9	.9449
		R5P10	.9405
		R5P11	.9386

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	93	FLIGHT DATE 09/20/79	SPIKE POS. OX/RC	.8582	AMBIENT TEMP	288.9 DEG K	MAX=MIN DIST	.0196
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9166 ATMUS	K=CIRCUMF.	.0764
START	3: 5135.001	INTERVAL 1.000	ENG. FACE RECOV	.9702	ENGINE M/M*	.4882	K=RADIAL	.0230
STOP	3: 01 5.000	ENG LOK RPM 3799.	ENG. FACE MACH NO	.2025	COWL M/M*	.3362		
			COWL LIP RECOV	.9719	ADDITIVE M/M*	.1519	K=DELTA	.0014
			MACH AT COWL LIP	.1490			K=A	.0243

SPIKE H1		COWL H3		STAT XLM/RC= 5.4830	
STAT XCM/RC= .0728	STAT XCM/RC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9680	S14 .9228	A36 .9685	A198 .9721		
H1P1 1.0023	H3P1 .9212	H36 .9712	H198 .9731		
H1P2 1.0028	H3P2 .9211	C36 .9723	C198 .9801		
H1P3 1.0030	H3P3 .9209	D36 .9723	D198 .9707		
H1P4 1.0016	H3P4 .9207	E36 .9708	E198 .9602		
H1P5 1.0029	H3P5 .9209	90 DEG HAKE	252 DEG HAKE		
H1P6 1.0028	H3P6 .9210	A90 .9704	A252 .9685		
H1P7 1.0029	H3P7 .9862	B90 .9725	B252 .9697		
H1P8 1.0024	H3P8 .9456	C90 .9727	C252 .9692		
H1P9 1.0009	H3P9 .9848	D90 .9700	D252 .9683		
	H3P10 1.0014	E90 .9673	E252 .9654		
	H3P11 1.0028	144 DEG HAKE	324 DEG HAKE		
	H3P12 .9994	A144 .9708	A324 .9707		
	H3P13 1.0030	B144 .9732	B324 .9728		
	H3P14 1.0029	D144 .9706	D324 .9719		
	H3P15 1.0033	C144 .9658	C324 .9700		
	H3P16 1.0033	E144 .9611	E324 .9679		

SPIKE H2		COWL H4		STATIC PRESSURES	
STAT XCM/RC= 1.4678	STAT XCM/RC= 1.5340	SPIKE		COWL	
S9 .9455	S20 .9055	XCM/RC	P/PO	TAP	XCM/RC
R2P1 .9532	H4P1 .9778	S1 .9762	.9924	S14	.0340
R2P2 .9583	H4P2 .9855	S2 .9728	.9680	S15	.1860
R2P3 .9706	H4P3 .9873	S11 .9728	.9669	S16	.4150
R2P4 .9848	H4P4 .9862	S12 .9728	.9670	S17	.8470
R2P5 .9879	H4P5 .9883	S13 .9728	.9680	S18	1.1740
	H4P6 .9884	S3 .9488	.9525	S19	1.4590
	H4P7 .9878	S4 .9488	.9270	S20	1.5400
	H4P8 .9882	S5 .9428	.9305	S21	1.8270
	H4P9 .9867	S6 .8896	.9313	S22	2.7840
	H4P10 .9865	S7 1.0178	.9345	S23	3.2980
	H4P11 .9858	S8 1.1498	.9394	S26	5.2890
	H4P12 .9858	S9 1.5126	.9455		
		S10 1.8488	.9423		
		S27 5.3000	.9440		
		S28 .9420	.9820		

SPIKE H6		COWL H5	
STAT XCM/RC= 3.5040	STAT XCM/RC= 3.3270		
S23 .9443	S23 .9443		
H6P1 .9615	H5P1 .9575		
H6P2 .9687	H5P2 .9575		
H6P3 .9658	H5P3 .9540		
H6P4 .9676	H5P4 .9598		
H6P5 .9693	H5P5 .9614		
H6P6 .9706	H5P6 .9633		
H6P7 .9716	H5P7 .9656		
H6P8 .9721	H5P8 .9713		
H6P9 .9727	H5P9 .9748		
	H5P10 .9758		
	H5P11 .9735		

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 94 FLIGHT DATE 09/20/79 SPIKE POS. DX/MC .0582 AMBIENT TEMP 289.4 DEG K
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9177 ATMUS
 START 3: 8135.003 INTERVAL 1.000 ENG. FACE RECOV .9637 ENGINE M/M* .4976
 STOP 3: 9: 4.999 ENG LUN RPM 4009. ENG. FACE MACH NO .2141 COWL M/M* .3586
 COWL LIP RECOV .9653 ADDITIVE M/M* .1390
 MACH AT COWL LIP .2145
 MAX=MIN DIST .0222
 K=CIRCUMF. .6250
 K=RADIAL .0260
 K=DELTA -.0146
 K=A .0406

SPIKE R1		COWL R3		STAT XCM/MC# 5.4830	
STAT XCM/MC# .0728		STAT XCM/MC# .0700		36 DEG RAKE	198 DEG RAKE
S2 .9612	S14 .9084	A36 .9616	A198 .9657		
R1P1 1.0011	R3P1 .9065	H36 .9647	H198 .9679		
R1P2 1.0018	R3P2 .9064	C36 .9652	C198 .9740		
R1P3 1.0019	R3P3 .9062	D36 .9655	D198 .9651		
R1P4 .9999	R3P4 .9063	E36 .9642	E198 .9594		
R1P5 1.0018	R3P5 .9060	90 DEG RAKE	252 DEG RAKE		
R1P6 1.0018	R3P6 .9062	A90 .9633	A252 .9642		
R1P7 1.0017	R3P7 .9815	H90 .9636	H252 .9649		
R1P8 1.0016	R3P8 .9315	C90 .9657	C252 .9654		
R1P9 .9995	R3P9 .9770	D90 .9626	D252 .9654		
	R3P10 .9998	E90 .9596	E252 .9598		
	R3P11 1.0015	144 DEG RAKE	324 DEG RAKE		
	R3P12 .9978	A144 .9636	A324 .9653		
	R3P13 1.0020	H144 .9653	H324 .9675		
	R3P14 1.0017	D144 .9625	D324 .9661		
	R3P15 1.0020	C144 .9575	C324 .9635		
	R3P16 1.0020	E144 .9526	E324 .9668		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/MC# 1.4678		STAT XCM/MC# 1.5380		SPIKE	P/PO	IAP	COWL
				XCM/MC			XCM/MC
S9 .9353	S20 .8811	TAP		S14 .9899	S14		.9084
R2P1 .9426	R4P1 .9718	S1	.0762	.9612	S15		.9053
R2P2 .9492	R4P2 .9813	S2	.0728	.9606	S16		.9339
R2P3 .9651	R4P3 .9831	S11	.0728	.9600	S17		.9302
R2P4 .9808	R4P4 .9847	S12	.0728	.9615	S18	1.1740	.9355
R2P5 .9850	R4P5 .9847	S13	.0728	.9433	S19	1.4590	.9352
	R4P6 .9842	S3	.1408	.9136	S20	1.5400	.8871
	R4P7 .9846	S4	.4068	.9176	S21	1.8270	.9294
	R4P8 .9851	S5	.6428	.9187	S22	2.7840	.9276
	R4P9 .9846	S6	.8898	.9219	S23	3.2980	.9335
	R4P10 .9842	S7	1.0178	.9278	S26	5.2890	.9304
	R4P11 .9832	S8	1.1448	.9353			
	R4P12 .9820	S9	1.5128	.9316			
		S10	1.8488	.9335			
		S27	5.3000	.9779			
		S28	.6428				

SPIKE R6		COWL R5	
STAT XCM/MC# 3.5040		STAT XCM/MC# 3.3270	
S23 .9335	S23 .9335		
R6P1 .9532	R5P1 .9483		
R6P2 .9615	R5P2 .9444		
R6P3 .9595	R5P3 .9506		
R6P4 .9600	R5P4 .9514		
R6P5 .9612	R5P5 .9532		
R6P6 .9642	R5P6 .9549		
R6P7 .9651	R5P7 .9541		
R6P10 .9661	R5P8 .9645		
R6P11 .9670	R5P9 .9668		
	R5P10 .9692		
	R5P11 .9643		

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	95	FLIGHT DATE 09/20/79	SPIKE POS. DX/HC	.8582	AMBIENT TEMP	289.4 DEG K	MAX-MIN DIST	.0281
START	3:11:20.000	FLIGHT NO. 0	BYPASS POS. CLOSED		AMBIENT PRESS	19171 ATMUS	K-CIRCUMF.	.5890
STOP	3:11:49.997	INTERVAL 1.000	ENG. FARE RECOV	.9589	ENGINE M/M	.5093	K-RADIAL	.0290
		ENG COM RPM 4215.	ENG. FARE MACH NO	.2342	COWL M/M	.3796	K-DELTA	-.0139
			COWL LIP RECOV	.9610	ADDITIVE M/M	.1246	K-A	.0428
			MACH AT COWL LIP	.2290				

SPIKE R1		COWL K3		STAT XCW/HC= 5.4830	
STAT XCW/RC= .0728		STAT XCW/RC= .0700		36 DEG HAKE	198 DEG HAKE
S2 .9564	S14 .8967	A36 .9565	A198 .9596		
R1P1 1.0018	K3P1 .8946	H36 .9605	H198 .9634		
R1P2 1.0020	K3P2 .8939	C36 .9614	C198 .9709		
R1P3 1.0021	K3P3 .8938	D36 .9615	D198 .9628		
R1P4 1.0003	K3P4 .8937	E36 .9603	E198 .9545		
R1P5 1.0021	K3P5 .8937	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0022	K3P6 .8939	A90 .9574	A252 .9586		
R1P7 1.0021	K3P7 .9805	H90 .9615	H252 .9547		
R1P8 1.0021	K3P8 .9244	C90 .9615	C252 .9601		
R1P9 1.0002	K3P9 .9755	D90 .9578	D252 .9585		
	K3P10 .9997	E90 .9548	E252 .9542		
	K3P11 1.0021	144 DEG HAKE	324 DEG HAKE		
	K3P12 .9977	A144 .9580	A324 .9604		
	K3P13 1.0026	H144 .9612	H324 .9632		
	K3P14 1.0023	D144 .9574	D324 .9609		
	K3P15 1.0027	C144 .9517	C324 .9589		
	K3P16 1.0027	E144 .9454	E324 .9547		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC= 1.4678		STAT XCW/RC= 1.5380		SPIKE		COWL	
S9 .9265	S20 .8721			XCW/HC	P/PU	IAP	P/PU
R2P1 .9355	K4P1 .9683	TAP					
R2P2 .9434	K4P2 .9786	S1	.0762	.9843	S14	.0340	.8967
R2P3 .9599	K4P3 .9826	S2	.0728	.9564	S15	.1860	.8927
R2P4 .9789	K4P4 .9832	S11	.0728	.9558	S16	.4150	.9263
R2P5 .9830	K4P5 .9834	S12	.0728	.9536	S17	.8470	.9213
	K4P6 .9836	S13	.0728	.9567	S18	1.1740	.9268
	K4P7 .9832	S3	.1406	.9360	S19	1.4590	.9270
	K4P8 .9828	S4	.4068	.9025	S20	1.5400	.8721
	K4P9 .9828	S5	.6428	.9070	S21	1.8270	.9201
	K4P10 .9823	S6	.8898	.9086	S22	2.7840	.9181
	K4P11 .9815	S7	1.0178	.9120	S23	3.2980	.9244
	K4P12 .9805	S8	1.1448	.9183	S26	5.2890	.9212
		S9	1.5128	.9265			
		S10	1.8488	.9226			
		S27	5.5000	.9246			
		S28	.6428	.9756			

SPIKE R6		COWL K5	
STAT XCW/RC= 3.5040		STAT XCW/RC= 3.3270	
S23 .9244	S23 .9244		
R6P1 .9468	K5P1 .9418		
R6P2 .9562	K5P2 .9424		
R6P3 .9540	K5P3 .9444		
R6P4 .9549	K5P4 .9446		
R6P5 .9568	K5P5 .9474		
R6P6 .9593	K5P6 .9498		
R6P7 .9604	K5P7 .9534		
R6P8 .9620	K5P8 .9601		
R6P9 .9626	K5P9 .9640		
	K5P10 .9661		
	K5P11 .9653		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	96	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0285
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9172 ATMOS	K-CIRCUMF.	.5671
START	3:13:50.001	INTERVAL 1.000	ENG. FACE RECOV	.9529	ENGINE M/M*	.5185	K-RADIAL	.0304
STOP	3:14:20.000	ENG CUR RPM 4385.	ENG. FACE MACH NO	.2522	COWL M/M*	.4028		
			COWL LIP RECOV	.9551	ADDITIVE M/M*	.1156	K-DELTA	-.0059
			MACH AT COWL LIP	.2456			K-A	.0363

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9498	S14	.8819	A36	.9506
R1P1	1.0014	R3P1	.8785	B36	.9552
R1P2	1.0018	R3P2	.8782	C36	.9505
R1P3	1.0020	R3P3	.8774	D36	.9505
R1P4	1.0003	R3P4	.8779	E36	.9542
R1P5	1.0022	R3P5	.8780	90 DEG HAKE	252 DEG HAKE
R1P6	1.0019	R3P6	.8784	A90	.9533
R1P7	1.0021	R3P7	.8763	B90	.9562
R1P8	1.0019	R3P8	.9156	C90	.9500
R1P9	1.0002	R3P9	.9733	D90	.9526
		R3P10	.9999	E90	.9488
		R3P11	1.0022	144 DEG HAKE	324 DEG HAKE
		R3P12	.9972	A144	.9514
		R3P13	1.0027	B144	.9500
		R3P14	1.0022	D144	.9536
		R3P15	1.0026	C144	.9480
		R3P16	1.0026	E144	.9584

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9150	S20	.8513	XCW/RC	P/PO	XCW/RC	P/PO
R2P1	.9243	R4P1	.9647	TAP			
R2P2	.9338	R4P2	.9764	S1	.0762	S14	.0340
R2P3	.9529	R4P3	.9785	S2	.0728	S15	.1860
R2P4	.9765	R4P4	.9804	S11	.0728	S16	.4150
R2P5	.9809	R4P5	.9805	S12	.0728	S17	.8470
		R4P6	.9809	S13	.0728	S18	1.1740
		R4P7	.9817	S3	.1408	S19	1.4590
		R4P8	.9813	S4	.4008	S20	1.5400
		R4P9	.9803	S5	.6428	S21	1.8270
		R4P10	.9803	S6	.8698	S22	2.7840
		R4P11	.9748	S7	1.0178	S23	3.2980
		R4P12	.9773	S8	1.1498	S26	5.2890
				S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.9131	S23	.9131
R6P1	.9387	R5P1	.9331
R6P2	.9479	R5P2	.9337
R6P3	.9460	R5P3	.9360
R6P4	.9486	R5P4	.9373
R6P5	.9489	R5P5	.9395
R6P6	.9531	R5P6	.9425
R6P7	.9543	R5P7	.9467
R6P10	.9553	R5P8	.9533
R6P11	.9557	R5P9	.9542
		R5P10	.9603
		R5P11	.9596

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	97	FLIGHT DATE	09/26/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0348
START	3:15:50.004	FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9180 ATMOS	K=CIRCUMF.	.5136
STOP	3:16:20.000	INTERVAL	1.000	ENG. FARE RECOV	.9445	ENGINE M/M	.8314	K=RADIAL	.0313
		ENG CLK RPM	4601.	ENG. FARE MACH NO	.2724	COWL M/M	.4272		
				COWL LIP RECOV	.9470	ADDITIVE M/M	.1042	K=DELTA	-.0203
				MACH AT COWL LIP	.2642			K=A	.0516

SPIKE R1		COWL K3		STAT XCM/KC= 5.4830	
STAT XCM/KC	.0728	STAT XCM/KC	.0700	30 DEG RAKE	198 DEG RAKE
S2	.9414	S14	.8628	A36	.9410 A198 .9487
R1P1	1.0005	R3P1	.8597	B36	.9466 B198 .9490
R1P2	1.0010	R3P2	.8595	C36	.9474 C198 .9580
R1P3	1.0011	R3P3	.8594	D36	.9474 D198 .9486
R1P4	.9991	R3P4	.8593	E36	.9456 E198 .9364
R1P5	1.0011	R3P5	.8596	90 DEG RAKE	252 DEG RAKE
R1P6	1.0010	R3P6	.8594	A90	.9444 A252 .9442
R1P7	1.0010	R3P7	.9731	H90	.9476 B252 .9480
R1P8	1.0009	R3P8	.9001	C90	.9467 C252 .9475
R1P9	.9987	R3P9	.9684	D90	.9432 D252 .9455
		R3P10	.9487	E90	.9388 E252 .9395
		R3P11	1.0009	144 DEG RAKE	324 DEG RAKE
		R3P12	.9953	A144	.9443 A324 .9452
		R3P13	1.0016	H144	.9469 B324 .9500
		R3P14	1.0012	D144	.9428 C324 .9478
		R3P15	1.0017	C144	.9340 D324 .9447
		R3P16	1.0016	E144	.9251 E324 .9406

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/KC	1.4678	STAT XCM/KC	1.5380	SPIKE	P/PO	TAP	COWL
S9	.9010	S20	.8277	XCM/KC	P/PO	TAP	XCM/KC
R2P1	.9108	R4P1	.9568	.0762	.9650	S14	.0340 .8628
R2P2	.9207	R4P2	.9724	.0728	.9414	S15	.1860 .8589
R2P3	.9447	R4P3	.9750	.0728	.9407	S16	.4150 .9018
R2P4	.9716	R4P4	.9769	.0728	.9390	S17	.8470 .8943
R2P5	.9777	R4P5	.9775	.0728	.9426	S18	1.1740 .9018
		R4P6	.9778	.1408	.9151	S19	1.4590 .9025
		R4P7	.9774	.4068	.8710	S20	1.5400 .8277
		R4P8	.9778	.6426	.8760	S21	1.8270 .8933
		R4P9	.9756	.8698	.8776	S22	2.7840 .8904
		R4P10	.9745	1.0178	.8825	S23	3.2980 .8988
		R4P11	.9727	1.1498	.8900	S26	5.2890 .8947
		R4P12		S9	1.5128 .9010		
				S10	1.8488 .8960		
				S27	5.3000 .8990		
				S28	.6428 .9672		

SPIKE K6		COWL K5	
STAT XCM/KC	3.5040	STAT XCM/KC	3.3270
S23	.8988	S23	.8988
R6P1	.9292	R5P1	.9210
R6P2	.9397	R5P2	.9229
R6P3	.9381	R5P3	.9247
R6P4	.9389	R5P4	.9254
R6P5	.9409	R5P5	.9287
R6P6	.9447	R5P6	.9316
R6P9	.9462	R5P7	.9357
R6P10	.9465	R5P8	.9447
R6P11	.9481	R5P9	.9513
		R5P10	.9534
		R5P11	.9517

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	9A	FLIGHT DATE 09/20/79	SPIKE POS. 0X/RC	.8582	AMBIENT TEMP	290.0 DEG K	MAX=MIN UIST	.0378
		FLIGHT NO. 0	BYPASS POS. CLOSED		AMBIENT PRESS	.9173 ATMOS	K=CIRCUMF.	.4821
START	3:17:40.001	INTERVAL 1.000	ENG. FACE RECUV	.9378	ENGINE M/M*	.5425	K=RADIAL	.0334
STOP	3:18: 9.998	ENG CUR RPM 4798.	ENG. FACE MACH NO	.2905	COWL M/M*	.4479	K=DELTA	-.0211
			COWL LIP RECUV	.9410	ADDITIVE M/M*	.0946	K=A	.0544
			MACH AT COWL LIP	.2802				

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9344	S14	.8478	A30	.9340 A198
R1P1	1.0009	R3P1	.8445	B36	.9403 B198
R1P2	1.0014	R3P2	.8442	C36	.9414 C198
R1P3	1.0015	R3P3	.8437	D36	.9425 D198
R1P4	.9994	R3P4	.8435	E36	.9402 E198
R1P5	1.0021	R3P5	.8435	90 DEG MAKE	252 DEG MAKE
R1P6	1.0016	R3P6	.8435	A90	.9374 A252
R1P7	1.0016	R3P7	.9649	H90	.9404 B252
R1P8	1.0013	R3P8	.8846	C90	.9403 C252
R1P9	.9990	R3P9	.9683	D90	.9370 D252
		R3P10	1.0000	E90	.9325 E252
		R3P11	1.0014	144 DEG MAKE	324 DEG MAKE
		R3P12	.9953	A144	.9381 A324
		R3P13	1.0022	H144	.9412 B324
		R3P14	1.0016	D144	.9364 C324
		R3P15	1.0021	C144	.9280 D324
		R3P16	1.0019	E144	.9167 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.4676	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.8880	S20	.8068	XCW/RC	P/PO	XCW/RC	P/PO
R2P1	.8978	R4P1	.9531	S1	.9762 .9840	S14	.0340 .8478
R2P2	.9098	R4P2	.9682	S2	.9728 .9344	S15	.1860 .8433
R2P3	.9372	R4P3	.9720	S11	.9728 .9346	S16	.4150 .8892
R2P4	.9694	R4P4	.9743	S12	.9728 .9316	S17	.8470 .8816
R2P5	.9759	R4P5	.9756	S13	.9728 .9365	S18	1.1740 .8894
		R4P6	.9753	S3	.1408 .9054	S19	1.4590 .8900
		R4P7	.9761	S4	.4068 .8556	S20	1.5400 .8068
		R4P8	.9751	S5	.6428 .8607	S21	1.8270 .8799
		R4P9	.9741	S6	.8848 .8626	S22	2.7840 .8772
		R4P10	.9738	S7	1.0178 .8672	S23	3.2980 .8854
		R4P11	.9723	S8	1.1498 .8755	S26	5.2890 .8816
		R4P12	.9694	S9	1.5128 .8880		
				S10	1.8488 .8829		
				S27	5.3000 .8869		
				S28	.6428 .9641		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8854	S23	.8854
R6P1	.9193	R5P1	.9112
R6P2	.9317	R5P2	.9127
R6P3	.9290	R5P3	.9148
R6P4	.9320	R5P4	.9161
R6P5	.9338	R5P5	.9144
R6P8	.9371	R5P6	.9232
R6P9	.9369	R5P7	.9284
R6P10	.9410	R5P8	.9374
R6P11	.9410	R5P9	.9451
		R5P10	.9481
		R5P11	.9470

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	99	FLIGHT DATE 09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0416
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9177 ATMOS	K-CIRCUMF.	.4545
START	3:19:40.002	INTERVAL 1.000	ENG. FALC RECOV	.9282	ENGINE M/M*	.5577	K-RADIAL	.0378
STOP	3:20: 9.994	ENG CUR RPM 5049.	ENG. FALC MACH NO	.3146	COWL M/M*	.4748		
			COWL LIP RECOV	.9320	ADDITIVE M/M*	.0829	K-DELTA	-.0097
			MACH AT COWL LIP	.3021			K-A	.0475

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC= .0728	STAT XCW/KC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9248	S14 .8248	A36 .9250	A198 .9300		
R1P1 1.0000	R3P1 .8204	H36 .9320	H198 .9334		
R1P2 1.0008	R3P2 .8203	C36 .9337	C198 .9436		
R1P3 1.0010	R3P3 .8202	D36 .9344	D198 .9304		
R1P4 .9988	R3P4 .8203	E36 .9322	E198 .9169		
R1P5 1.0009	R3P5 .8201	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0009	R3P6 .8200	A90 .9284	A252 .9250		
R1P7 1.0008	R3P7 .9655	B90 .9335	B252 .9300		
R1P8 1.0007	R3P8 .8809	C90 .9334	C252 .9278		
R1P9 .9982	R3P9 .9721	D90 .9297	D252 .9261		
	R3P10 1.0002	E90 .9227	E252 .9178		
	R3P11 1.0007	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9939	A144 .9286	A324 .9296		
	R3P13 1.0016	H144 .9340	H324 .9341		
	R3P14 1.0008	D144 .9292	D324 .9318		
	R3P15 1.0015	C144 .9171	C324 .9276		
	R3P16 1.0014	F144 .9044	E324 .9218		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC= 1.4678	STAT XCW/KC= 1.5380	SPIKE				COWL	
S9 .8699	S20 .7774	XCW/KC	P/PU	TAP	XCW/KC	P/PU	
R2P1 .8820	R4P1 .9467	S1 .90762	.9807	S14 .0340	.8248		
R2P2 .8946	R4P2 .9631	S2 .90728	.9248	S15 .1860	.8206		
R2P3 .9277	R4P3 .9675	S11 .90728	.9240	S16 .4150	.8733		
R2P4 .9660	R4P4 .9698	S12 .90728	.9234	S17 .8470	.8629		
R2P5 .9715	R4P5 .9715	S13 .90728	.9262	S18 1.1740	.8720		
	R4P6 .9715	S3 .1408	.8905	S19 1.4590	.8726		
	R4P7 .9724	S4 .4068	.8327	S20 1.5400	.7774		
	R4P8 .9721	S5 .6428	.8381	S21 1.8270	.8607		
	R4P9 .9724	S6 .8698	.8416	S22 2.7840	.8576		
	R4P10 .9710	S7 1.0178	.8464	S23 3.2980	.8678		
	R4P11 .9701	S8 1.1448	.8552	S26 5.2890	.8633		
	R4P12 .9672	S9 1.5128	.8644				
		S10 1.8488	.8644				
		S27 5.3000	.8645				
		S28 .6428	.9581				

SPIKE R6		COWL K5	
STAT XCW/KC= 3.5040	STAT XCW/KC= 5.3270		
S23 .8678	S23 .8678		
R6P1 .9084	R5P1 .8977		
R6P2 .9210	R5P2 .8987		
R6P3 .9183	R5P3 .9004		
R6P4 .9198	R5P4 .9030		
R6P5 .9220	R5P5 .9065		
R6P6 .9270	R5P6 .9162		
R6P7 .9291	R5P7 .9177		
R6P10 .9313	R5P8 .9282		
R6P11 .9333	R5P9 .9387		
	R5P10 .9409		
	R5P11 .9378		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	100	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0455
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9179 ATMOS	K-CIRCUMF.	.4375
START	3:22:10.001	INTERVAL	1.000	ENG. FAN REC'D	.9202	ENGINE M/M	.5703	K-RADIAL	.0379
STOP	3:22:40.000	ENG CUR RPM	5243.	ENG. FAN MACH NO	.3350	COWL M/M	.4941	K-DELTA	.0031
				COWL LIP REC'D	.9250	ADDITIVE M/M	.0762	K-A	.0410
				MACH A1 COWL LIP	.3187				

SPIKE R1		COWL K3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG WAKE	198 DEG WAKE
S2	.9170	S14	.8073	A36	.9158
R1P1	.9995	R3P1	.8025	B36	.9238
R1P2	1.0002	R3P2	.8023	C36	.9212
R1P3	1.0005	R3P3	.8022	D36	.9273
R1P4	.9984	R3P4	.8024	E36	.9247
R1P5	1.0004	R3P5	.8026	90 DEG WAKE	252 DEG WAKE
R1P6	1.0006	R3P6	.8027	A90	.9212
R1P7	1.0003	R3P7	.9596	B90	.9267
R1P8	1.0004	R3P8	.8773	C90	.9273
R1P9	.9977	R3P9	.9770	D90	.9222
		R3P10	1.0003	E90	.9142
		R3P11	1.0005	144 DEG WAKE	324 DEG WAKE
		R3P12	.9931	A144	.9226
		R3P13	1.0012	B144	.9284
		R3P14	1.0006	D144	.9237
		R3P15	1.0013	C144	.9089
		R3P16	1.0011	E144	.8941
				A324	.9220
				B324	.9262
				C324	.9227
				D324	.9197
				E324	.9128

SPIKE H2		COWL K4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE			COWL
S9	.8552	S20	.7531	XCM/RC	P/PO	TAP	XCM/RC
R2P1	.8668	R4P1	.9399	S1	.0762	.9787	S14
R2P2	.8805	R4P2	.9594	S2	.0728	.9170	S15
R2P3	.9168	R4P3	.9642	S11	.0728	.9166	S16
R2P4	.9615	R4P4	.9661	S12	.0728	.9160	S17
R2P5	.9689	R4P5	.9667	S13	.0728	.9184	S18
		R4P6	.9677	S3	.1408	.8747	S19
		R4P7	.9693	S4	.4006	.8163	S20
		R4P8	.9695	S5	.6428	.8218	S21
		R4P9	.9682	S6	.8698	.8247	S22
		R4P10	.9679	S7	1.0178	.8298	S23
		R4P11	.9664	S8	1.1498	.8393	S26
		R4P12	.9642	S9	1.5128	.8552	
				S10	1.8488	.8442	
				S27	5.3000	.8544	
				S28	.0426	.9541	

SPIKE H6		COWL K5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8517	S23	.8517
R6P1	.8952	R5P1	.8834
R6P2	.9108	R5P2	.8879
R6P3	.9076	R5P3	.8904
R6P4	.9115	R5P4	.8916
R6P5	.9138	R5P5	.8956
R6P8	.9180	R5P6	.8999
R6P9	.9202	R5P7	.9071
R6P10	.9226	R5P8	.9234
R6P11	.9250	R5P9	.9309
		R5P10	.9354
		R5P11	.9326

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	101	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0470
START	3:24:10.000	FLIGHT NO.	0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9170 ATMOS	K-CIRCUMF.	.4188
STOP	3:24:39.998	INTERVAL	1.000	ENG. FACE RECOV	.9160	ENGINE M/M*	.5851	K-RADIAL	.0431
		ENG CUR RPM	5422.	ENG. FACE MACH NO	.3481	COWL M/M*	.5086	K-DELTA	.0119
				COWL LIP RECOV	.9208	ADDITIVE M/M*	.0765	K-A	.0549
				MACH AT COWL LIP	.3511				

SPIKE R1		COWL K3		STAT XLM/MC= 5.4850	
STAT XCM/RC= .0728	STAT XCM/RC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9127	S14 .7944	A36 .9101	A198 .9188		
R1P1 1.0015	R3P1 .7911	R36 .9184	H198 .9241		
R1P2 1.0011	R3P2 .7907	C36 .9212	C198 .9345		
R1P3 1.0015	R3P3 .7906	D36 .9233	D198 .9219		
R1P4 1.0003	R3P4 .7904	E36 .9198	E198 .9048		
R1P5 1.0015	R3P5 .7906	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0021	R3P6 .7904	A90 .9175	A252 .9044		
R1P7 1.0015	R3P7 .9590	B90 .9234	H252 .9152		
R1P8 1.0012	R3P8 .8734	C90 .9235	C252 .9153		
R1P9 .9992	R3P9 .9793	D90 .9182	D252 .9125		
	R3P10 1.0016	E90 .9103	E252 .9042		
	R3P11 1.0017	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9939	A144 .9161	A324 .9149		
	R3P13 1.0023	H144 .9242	H324 .9209		
	R3P14 1.0017	D144 .9186	C324 .9202		
	R3P15 1.0022	C144 .9051	D324 .9144		
	R3P16 1.0021	E144 .8915	E324 .9069		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/RC= 1.4678	STAT XLM/MC= 1.5380			SPIKE		COWL	
S9 .8452	S20 .7364	TAP	XCM/RC	P/P0	IAP	XCM/RC	P/P0
R2P1 .8582	H4P1 .9391	S1 .0702	.9785	S14 .0340	.7944		
R2P2 .8752	H4P2 .9583	S2 .0728	.9127	S15 .1860	.7897		
R2P3 .9129	H4P3 .9634	S11 .0728	.9122	S16 .4150	.8512		
R2P4 .9602	H4P4 .9650	S12 .0728	.9117	S17 .8470	.8376		
R2P5 .9687	H4P5 .9674	S13 .0728	.9150	S18 1.1740	.8477		
	H4P6 .9676	S3 .1408	.8727	S19 1.4590	.8488		
	H4P7 .9694	S4 .4068	.8042	S20 1.5400	.7364		
	H4P8 .9687	S5 .0428	.8049	S21 1.8270	.8354		
	H4P9 .9664	S6 .8848	.8134	S22 2.7840	.8314		
	H4P10 .9664	S7 1.0178	.8184	S23 3.2980	.8436		
	H4P11 .9650	S8 1.1496	.8277	S26 5.2890	.8386		
	H4P12 .9607	S9 1.5128	.8452				
		S10 1.8488	.8396				
		S27 5.3000	.8456				
		S28 .0428	.9520				

SPIKE R6		COWL K5	
STAT XCM/RC= 3.5040	STAT XLM/MC= 3.3270		
S23 .8436	S23 .8436		
H6P1 .8905	H5P1 .8789		
H6P2 .9051	H5P2 .8811		
H6P3 .9017	H5P3 .8831		
H6P4 .9045	H5P4 .8851		
H6P5 .9075	H5P5 .8883		
H6P8 .9146	H5P6 .8932		
H6P9 .9158	H5P7 .9021		
H6P10 .9180	H5P8 .9176		
H6P11 .9199	H5P9 .9282		
	H5P10 .9320		
	H5P11 .9271		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	102	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0499
		FLIGHT NO.	0		AMBIENT PRESS	.9174 ATMOS	K=CIRCUMF.	.3956
START	3:26:15.003	INTERVAL	1.000	ENG. FALC RECUV	.9095	ENGINE M/M*	K=RADIAL	.0450
STOP	3:26:44.999	ENG CUM RPM	5559.	ENG. FALC MACH NO	.3642	COWL M/M*	K=DELTA	.0096
				COWL LIP RECUV	.9147	ADDITIVE M/M*	K=A	.0546
				MACH AT COWL LIP	.3428			

SPIKE R1		COWL R3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9061	S14	.7804	A36	.9034 A198
R1P1	.9993	R3P1	.7760	B36	.9121 B198
R1P2	1.0000	R3P2	.7755	C36	.9101 C198
R1P3	1.0005	R3P3	.7749	D36	.9101 D198
R1P4	.9983	R3P4	.7751	E36	.9144 E198
R1P5	1.0002	R3P5	.7748	90 DEG HAKE	252 DEG HAKE
R1P6	1.0009	R3P6	.7751	A90	.9095 A252
R1P7	1.0005	R3P7	.9548	H90	.9167 H252
R1P8	.9998	R3P8	.8691	C90	.9173 C252
R1P9	.9976	R3P9	.9811	D90	.9109 D252
		R3P10	1.0010	E90	.9013 E252
		R3P11	1.0009	144 DEG HAKE	324 DEG HAKE
		R3P12	.9927	A144	.9095 A324
		R3P13	1.0015	B144	.9174 B324
		R3P14	1.0010	D144	.9110 D324
		R3P15	1.0014	C144	.8982 C324
		R3P16	1.0013	E144	.8654 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.8318	S20	.7166	XCM/RC	P/PU	IAP	XCM/RC P/PO
R2P1	.8448	R4P1	.9320	TAP			
R2P2	.8662	R4P2	.9548	S1	.0762	.9765	S14 .0340 .7804
R2P3	.9059	R4P3	.9605	S2	.0728	.9061	S15 .1860 .7753
R2P4	.9584	R4P4	.9634	S11	.0728	.9053	S16 .4150 .8403
R2P5	.9661	R4P5	.9645	S12	.0728	.9051	S17 .8470 .8248
		R4P6	.9650	S13	.0728	.9083	S18 1.1740 .8349
		R4P7	.9668	S3	.1408	.8630	S19 1.4590 .8359
		R4P8	.9664	S4	.4068	.7849	S20 1.5400 .7166
		R4P9	.9662	S5	.6428	.7442	S21 1.8270 .8198
		R4P10	.9651	S6	.8896	.7983	S22 2.7840 .8168
		R4P11	.9638	S7	1.0178	.8033	S23 3.2980 .8305
		R4P12	.9611	S8	1.1498	.8131	S26 5.2890 .8255
				S9	1.5126	.8318	
				S10	1.8488	.8258	
				S27	5.3000	.8348	
				S28	.6428	.9482	

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8305	S23	.8305
R6P1	.8796	R5P1	.8691
R6P2	.8976	R5P2	.8704
R6P3	.8924	R5P3	.8724
R6P4	.8960	R5P4	.8741
R6P5	.8980	R5P5	.8798
R6P6	.9061	R5P6	.8858
R6P9	.9081	R5P7	.8945
R6P10	.9109	R5P8	.9111
R6P11	.9136	R5P9	.9222
		R5P10	.9270
		R5P11	.9216

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	103	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0514
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9177 ATMOS	K-CIRCUMF.	.3883
START	3:27:55.001	INTERVAL	1.000	ENG. FACE RECUV	.9047	ENGINE M/M*	.6004	K-RADIAL	.0461
STOP	3:28:55.000	ENG COK RPM	5036.	ENG. FACE MACH NO	.3750	COWL M/M*	.5302	K-DELTA	.0138
				COWL LIP RECUV	.9104	ADDITIVE M/M*	.0702	K-A	.0599
				MACH AT COWL LIP	.3521				

SPIKE R1		COWL H3		STAT XLM/MC= 5.4830	
STAT XCM/RC= .0728	STAT XCM/RC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9015	S14 .7646	A36 .8469	A198 .9078		
R1P1 .9993	R3P1 .7651	H36 .9008	H198 .9135		
R1P2 1.0003	R3P2 .7647	C36 .9112	C198 .9280		
R1P3 1.0006	R3P3 .7642	D36 .9134	D198 .9112		
R1P4 .9983	R3P4 .7636	E36 .9048	E198 .8924		
R1P5 1.0005	R3P5 .7637	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0007	R3P6 .7648	A90 .9051	A252 .8970		
R1P7 1.0006	R3P7 .9539	H90 .9121	H252 .9016		
R1P8 1.0003	R3P8 .8662	C90 .9135	C252 .9028		
R1P9 .9976	R3P9 .9826	D90 .9068	D252 .8986		
	R3P10 1.0008	E90 .8483	E252 .8894		
	R3P11 1.0006	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9923	A144 .9046	A324 .9035		
	R3P13 1.0014	H144 .9127	H324 .9113		
	R3P14 1.0005	D144 .9082	D324 .9104		
	R3P15 1.0013	C144 .9448	C324 .9036		
	R3P16 1.0012	E144 .8615	E324 .8985		

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCM/RC= 1.4678	STAT XLM/MC= 1.5380			SPIKE	COWL		
S9 .8225	S20 .6993	TAP	XLM/MC	P/PU	TAP	XCM/RC	P/PU
R2P1 .8354	R4P1 .9304	S1 .9076	.9750	S14 .0340	.7696		
R2P2 .8524	R4P2 .9523	S2 .0728	.9015	S15 .1860	.7643		
R2P3 .8978	R4P3 .9582	S11 .0728	.9010	S16 .4150	.8319		
R2P4 .9550	R4P4 .9605	S12 .0728	.8949	S17 .8470	.8160		
R2P5 .9636	R4P5 .9624	S13 .0728	.9032	S18 1.1740	.8273		
	R4P6 .9632	S3 .1408	.8562	S19 1.4590	.8282		
	R4P7 .9648	S4 .4068	.7740	S20 1.5400	.6993		
	R4P8 .9645	S5 .6428	.7835	S21 1.8270	.8119		
	R4P9 .9645	S6 .8848	.7876	S22 2.7840	.8082		
	R4P10 .9642	S7 1.0178	.7926	S23 3.2980	.8213		
	R4P11 .9622	S8 1.1448	.8022	S26 5.2890	.8171		
	R4P12 .9543	S9 1.5128	.8225				
		S10 1.8488	.8158				
		S21 5.3000	.8245				
		S28 .6428	.9457				

SPIKE H6		COWL H5	
STAT XCM/RC= 3.5040	STAT XLM/MC= 3.3270		
S23 .8213	S23 .8213		
H6P1 .8737	H5P1 .8607		
H6P2 .8918	H5P2 .8653		
H6P3 .8880	H5P3 .8664		
H6P4 .8907	H5P4 .8684		
H6P5 .8941	H5P5 .8736		
H6P6 .9000	H5P6 .8741		
H6P9 .9025	H5P7 .8884		
H6P10 .9054	H5P8 .9062		
H6P11 .9076	H5P9 .9186		
	H5P10 .9218		
	H5P11 .9187		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	104	FLIGHT DATE	09/20/79	SPIKE POS.	DX/KC	.8582	AMBIENT TEMP	290.6	DEG K	MAX-MIN DIST	.0502
		FLIGHT NO.	0	BYPASS POS.	CLOSED		AMBIENT PRESS	.9177	ATMOS	K-CIRCUMF.	.3760
START	3:39:10.002	INTERVAL	1.000	ENG. FACE RECOV		.9041	ENGINE M/M*	.6185		K-RADIAL	.0416
STOP	3:39:40.000	ENG COK RPM	5779.	ENG. FACE MACH NO		.3755	COWL M/M*	.5275		K-DELTA	.0256
				COWL LIP RECOV		.9090	ADDITIVE M/M*	.0909		K-A	.0672
				MACH AT COWL LIP		.3507					

SPIKE R1		COWL R3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG KAKE	198 DEG KAKE
S2	.9012	S14	.7686	A36	.8478
R1P1	.9997	R3P1	.7635	H36	.9072
R1P2	.9935	R3P2	.7631	C36	.9114
R1P3	1.0006	R3P3	.7628	D36	.9125
R1P4	.9889	R3P4	.7626	E36	.9043
R1P5	.9866	R3P5	.7629	90 DEG KAKE	252 DEG KAKE
R1P6	1.0008	R3P6	.7635	A90	.9050
R1P7	.9893	R3P7	.9546	H90	.9134
R1P8	1.0004	R3P8	.8689	C90	.9157
R1P9	.9670	R3P9	.9427	D90	.9088
		R3P10	1.0009	E90	.9000
		R3P11	1.0007	144 DEG KAKE	324 DEG KAKE
		R3P12	.9919	A144	.9053
		R3P13	1.0013	H144	.9137
		R3P14	1.0006	D144	.9068
		R3P15	1.0014	C144	.8431
		R3P16	1.0012	E144	.8794

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE	P/PO	IAP	COWL
S9	.8217	S20	.7030	XCW/KC			XCW/KC
R2P1	.8366	R4P1	.9308	S1	.9749	S14	.0340
R2P2	.8558	R4P2	.9520	S2	.9012	S15	.1860
R2P3	.8999	R4P3	.9564	S11	.8999	S16	.4150
R2P4	.9552	R4P4	.9598	S12	.9006	S17	.8470
R2P5	.9628	R4P5	.9618	S13	.9018	S18	1.1740
		R4P6	.9618	S3	.8550	S19	1.4590
		R4P7	.9639	S4	.7780	S20	1.5400
		R4P8	.9632	S5	.7829	S21	1.8270
		R4P9	.9630	S6	.7869	S22	2.7840
		R4P10	.9611	S7	.7922	S23	3.2980
		R4P11	.9605	S8	.8024	S26	5.2890
		R4P12	.9590	S9	.8217		.8159

SPIKE R6		COWL R5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8200	S23	.8200
R6P1	.8727	R5P1	.8605
R6P2	.8891	R5P2	.8632
R6P3	.8875	R5P3	.8656
R6P4	.8893	R5P4	.8673
R6P5	.8915	R5P5	.8726
R6P8	.9000	R5P6	.8782
R6P9	.9023	R5P7	.8871
R6P10	.9059	R5P8	.9007
R6P11	.9095	R5P9	.9189
		R5P10	.9205
		R5P11	.9164

YF-12 INLET NOISE SUPPRESSION STUDY
 RUN 105 FLIGHT DATE 09/20/79 SPIKE POS. DX/RC .8582 AMBIENT TEMP 290.6 DEG K
 FLIGHT NO. 0 BYPASS POS. CLOSED AMBIENT PRESS .9180 ATMOS
 START 3:41:50.000 INTERVAL 1.000 ENG. FALC RECOV .8977 ENGINE M/M* .6289
 STOP 3:42:20.000 ENG CUM RPM 5883. ENG. FALC MACH NO .3878 COWL M/M* .5433
 COWL LIP RECOV .9049 ADDITIVE M/M* .0856
 MACH AT COWL LIP .3649
 MAX-MIN DIST .0505
 K-CIRCUMF. .3649
 K-RADIAL .0417
 K-DELTA .0324
 K-A .0741

SPIKE R1		COWL H3		STAT XCN/MC= 5.4830	
STAT	XCN/MC= .0728	STAT	XCN/MC= .0700	36 DEG HAKE	198 DEG HAKE
S2	.8955	S14	.7553	A36	.8417
R1P1	.9989	R3P1	.7497	H36	.9021
R1P2	1.0000	R3P2	.7444	C36	.9078
R1P3	1.0003	R3P3	.7496	D36	.9082
R1P4	.9977	R3P4	.7445	E36	.9043
R1P5	1.0003	R3P5	.7442	90 DEG HAKE	252 DEG HAKE
R1P6	1.0003	R3P6	.7505	A90	.9005
R1P7	1.0002	R3P7	.9444	H90	.9044
R1P8	1.0000	R3P8	.8773	C90	.9043
R1P9	.9972	R3P9	.9876	D90	.9024
		R3P10	1.0006	E90	.8946
		R3P11	1.0003	144 DEG HAKE	324 DEG HAKE
		R3P12	.9911	A144	.9021
		R3P13	1.0010	B144	.9117
		R3P14	1.0001	D144	.9021
		R3P15	1.0007	C144	.8870
		R3P16	1.0008	E144	.8714
				A324	.8947
				B324	.9020
				C324	.9000
				D324	.8955
				E324	.8891

SPIKE R2		COWL H4		STATIC PRESSURES	
STAT	XCN/MC= 1.4678	STAT	XCN/MC= 1.5380	SPIKE	COWL
				XCN/MC	P/PO
S9	.8105	S20	.6860	TAP	TAP
R2P1	.8276	R4P1	.9237	S1	.9734
R2P2	.8468	R4P2	.9485	S2	.8955
R2P3	.8927	R4P3	.9529	S11	.8942
R2P4	.9508	R4P4	.9573	S12	.8955
R2P5	.9617	R4P5	.9594	S13	.8963
		R4P6	.9588	S3	.8465
		R4P7	.9544	S4	.7651
		R4P8	.9610	S5	.7700
		R4P9	.9604	S6	.7747
		R4P10	.9546	S7	.7802
		R4P11	.9576	S8	.7903
		R4P12	.9559	S9	.8105
				S10	.8038
				S27	.8133
				S28	.9427
					.0340
					.1860
					.4150
					.8470
					1.1740
					1.4590
					1.5400
					1.8270
					2.7840
					3.2980
					5.2890
					.7553
					.7499
					.8241
					.8038
					.8155
					.8166
					.6860
					.7981
					.7945
					.8083
					.8045

SPIKE R6		COWL H5	
STAT	XCN/MC= 3.5040	STAT	XCN/MC= 3.3270
S23	.8083	S23	.8083
R6P1	.8651	H5P1	.8519
R6P2	.8828	H5P2	.8542
R6P3	.8805	H5P3	.8576
R6P4	.8832	H5P4	.8596
R6P5	.8848	H5P5	.8645
R6P6	.8919	H5P6	.8704
R6P7	.8956	H5P7	.8800
R6P10	.8995	H5P8	.9005
R6P11	.9012	H5P9	.9143
		H5P10	.9160
		H5P11	.9111

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	106	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0600
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9181 ATMOS	K-CIRCUMF.	.3440
START	3:43:26.002	INTERVAL	1.000	ENG. FACE RECOV	.8935	ENGINE M/M*	.6379	K-RADIAL	.0474
STOP	3:43:55.999	ENG COR RPM	5957.	ENG. FACE MACH NO	.3473	COWL M/M*	.5504	K-DELTA	.0251
				COWL LIP RECOV	.9011	ADDITIVE M/M*	.0875	K-A	.0725
				MACH AT COWL LIP	.3125				

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.8916	S14	.7459	A36	.8845 A198 .8969
R1P1	.9991	R3P1	.7407	H36	.8974 H198 .9041
R1P2	.9996	R3P2	.7398	C36	.9033 C198 .9190
R1P3	1.0001	R3P3	.7398	D36	.9054 D198 .8994
R1P4	.9976	R3P4	.7397	E36	.9007 E198 .8819
R1P5	1.0000	R3P5	.7397	90 DEG MAKE	252 DEG MAKE
R1P6	1.0003	R3P6	.7414	A90	.8947 A252 .8828
R1P7	1.0002	R3P7	.9495	H90	.9067 H252 .8866
R1P8	.9998	R3P8	.8756	C90	.9069 C252 .8850
R1P9	.9970	R3P9	.9888	D90	.8986 D252 .8854
		R3P10	1.0003	E90	.8896 E252 .8751
		R3P11	.9999	144 DEG MAKE	324 DEG MAKE
		R3P12	.9909	A144	.8929 A324 .8906
		R3P13	1.0005	H144	.9032 H324 .9006
		R3P14	.9995	D144	.8966 D324 .8968
		R3P15	1.0003	C144	.8810 C324 .8927
		R3P16	1.0005	E144	.8853 E324 .8834

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.8019	S20	.6649	XCW/KC	P/PU	TAP	XCW/KC P/PU
R2P1	.8194	R4P1	.9213	TAP			
R2P2	.8365	R4P2	.9467	S1	.0762 .9724	S14	.0340 .7459
R2P3	.8864	R4P3	.9522	S2	.0728 .8916	S15	.1860 .7405
R2P4	.9510	R4P4	.9555	S11	.0728 .8903	S16	.4150 .8170
R2P5	.9607	R4P5	.9573	S12	.0728 .8906	S17	.8470 .7955
		R4P6	.9576	S13	.0728 .8921	S18	1.1740 .8075
		R4P7	.9597	S3	.1408 .8410	S19	1.4590 .8084
		R4P8	.9606	S4	.4068 .7560	S20	1.5400 .6699
		R4P9	.9603	S5	.6428 .7602	S21	1.8270 .7888
		R4P10	.9583	S6	.8848 .7655	S22	2.7840 .7859
		R4P11	.9579	S7	1.0178 .7711	S23	3.2980 .7998
		R4P12	.9537	S8	1.1498 .7811	S26	5.2890 .7969
				S9	1.5128 .8019		
				S10	1.8488 .7958		
				S27	5.3000 .8054		
				S28	.6428 .9403		

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7998	S23	.7498
R6P1	.8586	R5P1	.8455
R6P2	.8776	R5P2	.8477
R6P3	.8744	R5P3	.8503
R6P4	.8781	R5P4	.8532
R6P5	.8807	R5P5	.8595
R6P6	.8887	R5P6	.8630
R6P9	.8913	R5P7	.8762
R6P10	.8950	R5P8	.8962
R6P11	.8985	R5P9	.9090
		R5P10	.9137
		R5P11	.9044

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	107	FLIGHT DATE	09/20/79	SPIKE POS. OX/RC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0664
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9176 ATMOS	K=CIRCUMF.	.3143
START	3:45:20.001	INTERVAL	1.000	ENG. FACE RECOV	.8885	ENGINE M/M*	.6633	K=RADIAL	.0493
STOP	3:45:50.000	ENG CUR RPM	6114.	ENG. FACE MACH NO	.4166	COWL M/M*	.5632	K=DELTA	.0274
				COWL LIP RECOV	.8452	ADDITIVE M/M*	.1002	K=A	.0767
				MACH A1 COWL LIP	.3859				

SPIKE R1		COWL K3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8854	S14	.7301	A36	.8767
R1P1	.9992	R3P1	.7247	B36	.8916
R1P2	1.0001	R3P2	.7243	C36	.8980
R1P3	1.0005	R3P3	.7239	D36	.8990
R1P4	.9977	R3P4	.7242	E36	.8951
R1P5	1.0006	R3P5	.7239	90 DEG HAKE	252 DEG HAKE
R1P6	1.0005	R3P6	.7236	A90	.8864
R1P7	1.0006	R3P7	.9462	B90	.9001
R1P8	1.0003	R3P8	.8789	C90	.9001
R1P9	.9976	R3P9	.9924	D90	.8933
		R3P10	1.0007	E90	.8840
		R3P11	1.0004	144 DEG HAKE	324 DEG HAKE
		R3P12	.9911	A144	.8882
		R3P13	1.0013	B144	.8980
		R3P14	1.0005	D144	.8902
		R3P15	1.0010	C144	.8733
		R3P16	1.0007	E144	.8504
				A324	.8842
				B324	.8930
				C324	.8910
				D324	.8832
				E324	.8700

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/RC=	1.8678	STAT XCM/RC=	1.5380	SPIKE			
S9	.7870	S20	.6525	XCM/RC	P/PO	IAP	COWL
R2P1	.8051	R4P1	.9157	TAP			XCM/RC
R2P2	.8265	R4P2	.9423	S1	.0762	.9712	S14
R2P3	.8793	R4P3	.9491	S2	.0720	.8854	S15
R2P4	.9484	R4P4	.9536	S11	.0728	.8836	S16
R2P5	.9601	R4P5	.9555	S12	.0720	.8843	S17
		R4P6	.9554	S13	.0720	.8856	S18
		R4P7	.9576	S3	.1408	.8307	S19
		R4P8	.9583	S4	.4068	.7387	S20
		R4P9	.9587	S5	.6428	.7433	S21
		R4P10	.9576	S6	.8848	.7487	S22
		R4P11	.9557	S7	1.0178	.7545	S23
		R4P12	.9531	S8	1.1498	.7648	S26
				S9	1.5128	.7810	
				S10	1.8488	.7801	
				S27	5.3000	.7911	
				S28	.6428	.9371	
							1.1740
							1.4590
							1.5400
							1.8270
							2.7840
							3.2980
							5.2890
							.7301
							.7245
							.8044
							.7811
							.7934
							.7946
							.6525
							.7735
							.7696
							.7857
							.7815

SPIKE R6		COWL K5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7857	S23	.7857
R6P1	.8476	K5P1	.8342
R6P2	.8681	K5P2	.8363
R6P3	.8619	K5P3	.8361
R6P4	.8680	K5P4	.8430
R6P5	.8722	K5P5	.8493
R6P6	.8816	K5P6	.8530
R6P9	.8842	K5P7	.8660
R6P10	.8876	K5P8	.8892
R6P11	.8905	K5P9	.9032
		R5P10	.9074
		R5P11	.9022

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	108	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0685
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9183 ATMOS	K=CIRCUMF.	.2917
START	3:47:15.000	INTERVAL	1.000	ENG. FACE REC'D	.8821	ENGINE M/M	.6740	K=RADIAL	.0437
STOP	3:47:44.998	ENG CLK RPM	6182.	ENG. FACE MACH NO	.4264	COWL M/M	.5698	K=DELTA	.0181
				COWL LIP REC'D	.8911	ADDITIVE M/M	.1043	K=A	.0618
				MACH AT COWL LIP	.3936				

SPIKE R1		COWL W3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8814	S14	.7203	A36	.8742 A198
R1P1	.9982	K3F1	.7152	B36	.8880 B198
R1P2	.9988	K3P2	.7145	C36	.8940 C198
R1P3	.9997	K3P3	.7147	D36	.8967 D198
R1P4	.9970	K3P4	.7144	E36	.8912 E198
R1P5	.9996	K3P5	.7143	90 DEG HAKE	252 DEG HAKE
R1P6	.9996	R3P6	.7164	A90	.8826 A252
R1P7	.9995	R3P7	.9449	A90	.8968 A252
R1P8	.9992	K3P8	.8876	C90	.8971 C252
R1P9	.9965	K3P9	.9948	D90	.8890 D252
		R3P10	1.0002	E90	.8787 E252
		R3P11	.9995	144 DEG HAKE	324 DEG HAKE
		R3P12	.9896	A144	.8788 A324
		R3P13	1.0003	B144	.8878 B324
		R3P14	.9997	D144	.8849 D324
		R3P15	1.0001	C144	.8679 C324
		R3P16	.9997	E144	.8509 E324

SPIKE R2		COWL W4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.7782	S20	.6417	XCW/KC	P/PU	XCW/KC	P/PU
R2P1	.7978	R4P1	.9086	S1	.80762 .9697	S14	.0340 .7203
R2P2	.8223	R4P2	.9378	S2	.0728 .8814	S15	.1860 .7144
R2P3	.8787	R4P3	.9453	S11	.0728 .8768	S16	.4150 .7991
R2P4	.9491	R4P4	.9488	S12	.0728 .8807	S17	.8470 .7728
R2P5	.9565	R4P5	.9509	S13	.0728 .8824	S18	1.1740 .7851
		R4P6	.9526	S3	.1408 .8245	S19	1.4590 .7879
		R4P7	.9539	S4	.4068 .7291	S20	1.5400 .6417
		R4P8	.9541	S5	.6428 .7333	S21	1.8270 .7642
		R4P9	.9549	S6	.8898 .7390	S22	2.7840 .7606
		R4P10	.9558	S7	1.0178 .7447	S23	3.2980 .7773
		R4P11	.9549	S8	1.1498 .7556	S26	5.2890 .7732
		R4P12	.9522	S9	1.5128 .7782		
				S10	1.8486 .7713		
				S27	5.3000 .7831		
				S28	.6428 .9349		

SPIKE R6		COWL W5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7773	S23	.7773
R6P1	.8390	R5P1	.8276
R6P2	.8622	R5P2	.8301
R6P3	.8585	R5P3	.8326
R6P4	.8620	R5P4	.8349
R6P5	.8650	R5P5	.8418
R6P8	.8756	R5P6	.8468
R6P9	.8785	R5P7	.8602
R6P10	.8828	R5P8	.8837
R6P11	.8880	R5P9	.9015
		R5P10	.9067
		R5P11	.8978

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	109	FLIGHT DATE 09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	291.7 DEG K	MAX-MIN DIST	.0706
		FLIGHT NO.	0		CLOSED	AMBIENT PRESS	K-CIRCUMF.	.2653
START	3:48:40.000	INTERVAL	1.000	ENG. FACE REC'D	.8778	ENGINE M/M	K-RADIAL	.0469
STOP	3:49:10.000	ENG COM RPM	6314.	ENG. FACE MACH NO	.4374	COML M/M	K-DELTA	.0107
				COML LIP REC'D	.8873	ADDITIVE M/M	K-A	.0576
				MACH AT COML LIP	.4014			

SPIKE R1		COML H3		STAT XCM/KC= 5.4830	
STAT XCM/KC= .0728	STAT XCM/KC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .8777	S14 .7104	A36 .8692	A198 .8736		
R1P1 .9988	R3P1 .7056	H36 .8814	B198 .8838		
R1P2 .9997	R3P2 .7050	C36 .8928	C198 .9046		
R1P3 1.0002	R3P3 .7054	D36 .8937	D198 .8830		
R1P4 .9973	R3P4 .7054	E36 .8870	E198 .8634		
R1P5 1.0002	R3P5 .7055	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0002	R3P6 .7072	A90 .8753	A252 .8708		
R1P7 1.0003	R3P7 .9431	H90 .8908	B252 .8808		
R1P8 .9999	R3P8 .8837	C90 .8918	C252 .8783		
R1P9 .9971	R3P9 .9958	D90 .8823	D252 .8737		
	R3P10 1.0006	E90 .8731	E252 .8589		
	R3P11 1.0002	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9896	A144 .8787	A324 .8745		
	R3P13 1.0008	H144 .8901	B324 .8818		
	R3P14 1.0000	D144 .8787	C324 .8798		
	R3P15 1.0005	C144 .8806	D324 .8734		
	R3P16 1.0004	E144 .8926	E324 .8667		

SPIKE R2		COML H4		STATIC PRESSURES			
STAT XCM/KC= 1.4678	STAT XCM/KC= 1.5386			SPIKE		COML	
S9 .7692	S20 .6282	TAP	XCM/KC	P/PO	IAP	XCM/KC	P/PO
R2P1 .7897	H4P1 .9051	S1 .8762	.9695	S14 .0340	.7104		
H2P2 .8136	H4P2 .9374	S2 .8728	.8777	S15 .1860	.7054		
H2P3 .8755	H4P3 .9443	S11 .8728	.8732	S16 .4150	.7917		
H2P4 .9480	H4P4 .9480	S12 .8728	.8743	S17 .8470	.7642		
H2P5 .9547	H4P5 .9509	S13 .8728	.8786	S18 1.1740	.7765		
	H4P6 .9519	S3 .1468	.8184	S19 1.4590	.7794		
	H4P7 .9529	S4 .4068	.7197	S20 1.5400	.6282		
	H4P8 .9545	S5 .6428	.7233	S21 1.8270	.7546		
	H4P9 .9543	S6 .8898	.7289	S22 2.7840	.7508		
	H4P10 .9548	S7 1.0178	.7351	S23 3.2980	.7673		
	H4P11 .9537	S8 1.1498	.7453	S26 5.2890	.7641		
	H4P12 .9523	S9 1.5128	.7642				
		S10 1.8488	.7618				
		S27 5.3000	.7747				
		S28 .6428	.9333				

SPIKE R6		COML H5	
STAT XCM/KC= 3.5040	STAT XCM/KC= 3.3270		
S23 .7673	S23 .7673		
H6P1 .8372	H5P1 .8207		
H6P2 .8568	H5P2 .8227		
H6P3 .8537	H5P3 .8259		
H6P4 .8566	H5P4 .8295		
H6P5 .8598	H5P5 .8339		
H6P8 .8704	H5P6 .8415		
H6P9 .8733	H5P7 .8537		
H6P10 .8770	H5P8 .8742		
H6P11 .8825	H5P9 .8977		
	H5P10 .9043		
	H5P11 .9463		

		YF-12 INLET NOISE SUPPRESSION STUDY							
RUN	110	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	291.7 DEG K	MAX-MIN DIST	.0719
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9181 ATMOS	K-CIRCUMF.	.2535
START	3:50:25.004	INTERVAL	1.000	ENG. FACE RECOV	.8756	ENGINE M/M*	.7009	K-RADIAL	.0440
STOP	3:50:55.000	ENG COM RPM	6341.	ENG. FACE MACH NO	.4451	COWL M/M*	.5802		
				COWL LIP RECOV	.8852	ADDITIVE M/M*	.1207	K-DELTA	.0077
				MACH AT COWL LIP	.4058			K-A	.0517

SPIKE R1		COWL N3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.8752	S14	.7053	A36	.8638 A198
R1P1	.9986	R3P1	.7001	R36	.8820 H198
R1P2	.9993	R3P2	.6996	C36	.8404 C198
R1P3	.9998	R3P3	.6996	D36	.8436 D198
R1P4	.9970	R3P4	.6994	E36	.8847 E198
R1P5	.9999	R3P5	.6996	90 DEG MAKE	252 DEG MAKE
R1P6	.9998	R3P6	.7018	A90	.8752 A252
R1P7	.9997	R3P7	.9412	H90	.8894 H252
R1P8	.9996	R3P8	.8925	C90	.8420 C252
R1P9	.9968	R3P9	.9968	D90	.8823 D252
		R3P10	1.0004	E90	.8704 E252
		R3P11	.9994	144 DEG MAKE	324 DEG MAKE
		R3P12	.9891	A144	.8751 A324
		R3P13	1.0007	H144	.8834 H324
		R3P14	.9999	D144	.8725 D324
		R3P15	1.0004	C144	.8562 C324
		R3P16	1.0000	E144	.8399 E324

SPIKE R2		COWL N4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.7634	S20	.6201	XCW/RC	P/PO	IAP	XCW/RC P/PO
R2P1	.7827	R4P1	.9049	S1	.8762	S14	.0340 .7053
R2P2	.8086	R4P2	.9373	S2	.8752	S15	.1860 .6990
R2P3	.8725	R4P3	.9426	S11	.8728	S16	.4150 .7883
R2P4	.9487	R4P4	.9475	S12	.8726	S17	.8470 .7582
R2P5	.9547	R4P5	.9494	S13	.8728	S18	1.1740 .7709
		R4P6	.9509	S3	.1408	S19	1.4590 .7741
		R4P7	.9527	S4	.4066	S20	1.5400 .6201
		R4P8	.9538	S5	.6426	S21	1.8270 .7487
		R4P9	.9552	S6	.8898	S22	2.7840 .7447
		R4P10	.9554	S7	1.0178	S23	3.2980 .7617
		R4P11	.9541	S8	1.1498	S26	5.2890 .7588
		R4P12	.9521	S9	1.3128		

SPIKE R6		COWL N5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7617	S23	.7617
R6P1	.8306	R5P1	.8158
R6P2	.8540	R5P2	.8186
R6P3	.8498	R5P3	.8216
R6P4	.8539	R5P4	.8242
R6P5	.8585	R5P5	.8241
R6P8	.8690	R5P6	.8380
R6P9	.8717	R5P7	.8498
R6P10	.8763	R5P8	.8757
R6P11	.8821	R5P9	.8976
		R5P10	.9006
		R5P11	.8924

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	111	FLIGHT DATE	09/20/79	SPIKE POS.	DX/RC	.85M2	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0624
		FLIGHT NO.	0	BYPASS POS.	CLOSED		AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.2369
START	3:54:20.002	INTERVAL	1.000	ENG. FACE RECOV	.8/11		ENGINE M/M*	.7151	K-RADIAL	.0459
STOP	3:54:49.999	ENG COM RPM	6503.	ENG. FACE MACH NO	.4527		COWL M/M*	.5873	K-DELTA	.0054
				COWL LIP RECOV	.8817		ADDITIVE M/M*	.127A	K-A	.0512
				MACH AT COWL LIP	.4140					

SPIKE R1		COWL N3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8711	S14	.6961	A36	.8601 A198
R1P1	.9979	R3P1	.6910	B36	.8768 B198
R1P2	.9989	R3P2	.6906	C36	.8862 C198
R1P3	.9993	R3P3	.6904	D36	.8897 D198
R1P4	.9965	R3P4	.6905	E36	.8824 E198
R1P5	.9994	R3P5	.6902	90 DEG HAKE	252 DEG HAKE
R1P6	.9994	R3P6	.6941	A90	.8753 A252
R1P7	.9993	R3P7	.9410	H90	.8891 H252
R1P8	.9991	R3P8	.9169	C90	.8886 C252
R1P9	.9965	R3P9	.9983	D90	.8772 D252
		R3P10	1.0001	E90	.8663 E252
		R3P11	.9996	144 DEG HAKE	324 DEG HAKE
		R3P12	.9895	A144	.8679 A324
		R3P13	1.0002	B144	.8841 B324
		R3P14	.9994	D144	.8771 D324
		R3P15	.9999	C144	.8562 C324
		R3P16	.9997	E144	.8554 E324

SPIKE R2		COWL N4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.7561	S20	.6140	XCM/RC	P/PU	IAP	XCM/RC
R2P1	.7756	R4P1	.9040	TAP			P/PU
R2P2	.8001	R4P2	.9357	S1	.8062	.9668	S14
R2P3	.8659	R4P3	.9423	S2	.0728	.8711	S15
R2P4	.9489	R4P4	.9475	S11	.0728	.8674	S16
R2P5	.9547	R4P5	.9515	S12	.0728	.8645	S17
		R4P6	.9523	S13	.0728	.8726	S18
		R4P7	.9543	S3	.1408	.8098	S19
		R4P8	.9560	S4	.4068	.7059	S20
		R4P9	.9571	S5	.6428	.7068	S21
		R4P10	.9565	S6	.8848	.7155	S22
		R4P11	.9557	S7	1.0178	.7214	S23
		R4P12	.9521	S8	1.1498	.7313	S26
				S9	1.5128	.7561	
				S10	1.8488	.7481	
				S27	5.3000	.7621	
				S28	.0428	.9249	

SPIKE N6		COWL N5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7541	S23	.7541
R6P1	.8229	R5P1	.8098
R6P2	.8489	R5P2	.8125
R6P3	.8435	R5P3	.8163
R6P4	.8506	R5P4	.8187
R6P5	.8497	R5P5	.8245
R6P6	.8640	R5P6	.8326
R6P9	.8665	R5P7	.8472
R6P10	.8708	R5P8	.8728
R6P11	.8780	R5P9	.8933
		R5P10	.9003
		R5P11	.8906

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	112	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.0727
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9184 ATMOS	K-CIRCUMF.	.2350
START	3:57:50.000	INTERVAL 1.000	ENG. FACE REC'D	.8687	ENGINE M/M	.7243	K-RADIAL	.0460
STOP	3:58:19.99H	ENG CLK RPM 6597.	ENG. FACE MACH NO	.4630	COML M/M	.5891		
			COML LIP REC'D	.8790	ADDITIVE M/M	.1352	K-DELTA	.0118
			MACH AT COML LIP	.4172			K-A	.0578

SPIKE R1		COML R3		STAT XCM/RC= 5.4850	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8691	S14	.6905	A36	.8569
R1P1	.9984	R3P1	.6854	B36	.8742
R1P2	.9994	R3P2	.6852	C36	.8816
R1P3	1.0000	R3P3	.6851	D36	.8852
R1P4	.9974	R3P4	.6849	E36	.8780
R1P5	1.0000	R3P5	.6850	90 DEG HAKE	252 DEG HAKE
R1P6	1.0001	R3P6	.6873	A90	.8668
R1P7	1.0001	R3P7	.9389	B90	.8827
R1P8	.9997	R3P8	.8890	C90	.8843
R1P9	.9970	R3P9	.9970	D90	.8743
		R3P10	1.0006	E90	.8826
		R3P11	1.0002	144 DEG HAKE	324 DEG HAKE
		R3P12	.9893	A144	.8659
		R3P13	1.0008	B144	.8824
		R3P14	1.0001	C144	.8746
		R3P15	1.0005	D144	.8533
		R3P16	1.0003	E144	.8526

SPIKE R2		COML R4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5340	SPIKE		COML	
S9	.7492	S20	.5975	XCM/RC	P/PO	XCM/RC	P/PO
R2P1	.7702	R4P1	.8974	TAP		S14	.0340
R2P2	.7977	R4P2	.9326	S1	.0762	S15	.1860
R2P3	.8624	R4P3	.9400	S2	.0728	S16	.4150
R2P4	.9476	R4P4	.9441	S11	.0728	S17	.8470
R2P5	.9529	R4P5	.9466	S12	.0728	S18	1.1740
		R4P6	.9476	S13	.0728	S19	1.4590
		R4P7	.9507	S4	.1408	S20	1.5400
		R4P8	.9523	S5	.4068	S21	1.8270
		R4P9	.9527	S6	.6428	S22	2.7640
		R4P10	.9537	S7	.8898	S23	3.2980
		R4P11	.9536	S8	1.0178	S26	5.2890
		R4P12	.9518	S9	1.1498		
				S10	1.3128		

SPIKE R6		COML R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7472	S23	.7472
R6P1	.8213	R5P1	.8052
R6P2	.8447	R5P2	.8075
R6P3	.8383	R5P3	.8108
R6P4	.8418	R5P4	.8128
R6P5	.8452	R5P5	.8206
R6P8	.8584	R5P6	.8276
R6P9	.8619	R5P7	.8411
R6P10	.8682	R5P8	.8708
R6P11	.8724	R5P9	.8911
		R5P10	.8986
		R5P11	.8874

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	113	FLIGHT DATE 09/20/79	SPIKE POS. UX/HC	.8582	AMBIENT TEMP	291.1 DEG K	MAX-MIN DIST	.0928
START	3159150.003	FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9194 ATMOS	K-CIRCUMF.	.2264
STOP	41 0119.999	INTERVAL 1.000	ENG. FACE RECUV	.8657	ENGINE M/M*	.7311	K-RADIAL	.0499
		ENG COH RPM 6691.	ENG. FACE MACH NO	.4675	COWL M/M*	.5931	K-DELTA	.0100
			COWL LIP RECUV	.8763	ADDITIVE M/M*	.1380	K-A	.0599
			MACH AT COWL LIP	.4224				

SPIKE R1		COWL K3		STAT XCW/HC= 5.4830	
STAT XCW/RC= .0728	STAT XCW/RC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .8656	S14 .6846	A36 .8528	A198 .8653		
R1P1 .9974	R3P1 .6789	H36 .8715	H198 .8782		
R1P2 .9987	R3P2 .6785	C36 .8023	C198 .9048		
R1P3 .9984	R3P3 .6785	D36 .8836	D198 .8745		
R1P4 .9960	R3P4 .6785	E36 .8777	E198 .8504		
R1P5 .9976	R3P5 .6788	90 DEG MAKE	252 DEG MAKE		
R1P6 .9979	R3P6 .6828	A90 .8802	A252 .8542		
R1P7 .9988	R3P7 .9374	H90 .8701	H252 .8657		
R1P8 .9987	R3P8 .9169	C90 .8801	C252 .8668		
R1P9 .9960	R3P9 .9979	D90 .8713	D252 .8625		
	R3P10 .9995	E90 .8595	E252 .8457		
	R3P11 .9990	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9982	A144 .8058	A324 .8603		
	R3P13 .9998	H144 .8722	H324 .8737		
	R3P14 .9990	D144 .8082	C324 .8682		
	R3P15 .9994	C144 .8453	D324 .8606		
	R3P16 .9989	E144 .8244	E324 .8516		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC= 1.4678	STAT XCW/RC= 1.5340			SPIKE		COWL	
S9 .7439	S20 .5875	TAP		XCW/RC	P/PO	XCW/RC	P/PO
R2P1 .7647	R4P1 .8906	S1	.0702	.9650	S14	.0340	.6846
R2P2 .7926	R4P2 .9311	S2	.0728	.8656	S15	.1860	.6780
R2P3 .8631	R4P3 .9400	S11	.0728	.8624	S16	.4150	.7732
R2P4 .9497	R4P4 .9431	S12	.0728	.8644	S17	.8470	.7396
R2P5 .9529	R4P5 .9456	S13	.0728	.8664	S18	1.1740	.7533
	R4P6 .9471	S3	.1408	.8019	S19	1.4590	.7563
	R4P7 .9503	S4	.4068	.6936	S20	1.5400	.5875
	R4P8 .9517	S5	.6428	.6453	S21	1.8270	.7274
	R4P9 .9526	S6	.8898	.7029	S22	2.7840	.7234
	R4P10 .9534	S7	1.0178	.7083	S23	3.2980	.7415
	R4P11 .9531	S8	1.1448	.7189	S26	5.2890	.7391
	R4P12 .9514	S9	1.5128	.7439			
		S10	1.8488	.7355			
		S27	5.3000	.7506			
		S28	.6428	.9270			

SPIKE R6		COWL K5	
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270		
S23 .7415	S23 .7415		
R6P1 .8151	R5P1 .8009		
R6P2 .8396	R5P2 .8033		
R6P3 .8372	R5P3 .8062		
R6P4 .8416	R5P4 .8092		
R6P5 .8442	R5P5 .8153		
R6P8 .8508	R5P6 .8234		
R6P9 .8599	R5P7 .8403		
R6P10 .8652	R5P8 .8674		
R6P11 .8708	R5P9 .8844		
	R5P10 .8994		
	R5P11 .8872		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	115	FLIGHT DATE 09/20/79	SPIKE POS. UX/MC	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0450
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9188 ATMOS	K-CIRCUMF.	.6493
START	41 71 5.000	INTERVAL 1.000	ENG. FACE REC'D	.9667	ENGINE M/M	.6344	K-RADIAL	.1370
STOP	41 7135.000	ENG CUR RPM 4197.	ENG. FACE MACH NO	.2498	COWL M/M	.2828	K-DELTA	.0397
			COWL LIP REC'D	.9827	ADDITIVE M/M	.3516	K-A	.1767
			MACH AT COWL LIP	.1315				

SPIKE R1		COWL M3		STAT XCM/MC= 5.4830	
STAT XCM/MC= .4752	STAT XCM/MC= .0700	30 DEG MAKE	198 DEG MAKE		
S2 .9725	S14 .9642	A36 .9705	A198 .9698		
R1P1 1.0006	M3P1 .9644	B36 .9654	B198 .9684		
R1P2 1.0007	R3P2 .9645	C36 .9561	C198 .9721		
R1P3 1.0010	M3P3 .9643	D36 .9487	D198 .9554		
R1P4 1.0004	M3P4 .9694	E36 .9438	E198 .9477		
R1P5 1.0010	R3P5 .9692	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0009	R3P6 .9693	A90 .9673	A252 .9824		
R1P7 1.0009	R3P7 .9939	H90 .9650	H252 .9795		
R1P8 1.0007	R3P8 .9698	C90 .9759	C252 .9701		
R1P9 .9990	R3P9 .9756	D90 .9671	D252 .9626		
	M3P10 .9890	E90 .9627	E252 .9575		
	M3P11 1.0005	144 DEG MAKE	324 DEG MAKE		
	M3P12 .9992	A144 .9746	A324 .9711		
	R3P13 1.0024	B144 .9746	B324 .9713		
	R3P14 1.0019	D144 .9655	C324 .9652		
	M3P15 1.0023	C144 .9615	D324 .9640		
	M3P16 1.0023	E144 .9575	E324 .9618		

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCM/MC= 1.0702	STAT XCM/MC= 1.5340			SPIKE		COWL	
S9 .9640	S20 .9377	TAP	XCM/MC	P/PO	IAP	XCM/MC	P/PO
R2P1 .9804	R4P1 .9930	S1 .9262	.9703	S14 .0340	.9692		
R2P2 .9893	R4P2 .9956	S2 .4752	.9725	S15 .1860	.9667		
R2P3 .9959	M4P3 .9958	S11 .4752	.9709	S16 .4150	.9721		
R2P4 .9954	M4P4 .9965	S12 .4752	.9709	S17 .8470	.9767		
R2P5 .9875	M4P5 .9963	S13 .4752	.9724	S18 1.1740	.9709		
	M4P6 .9968	S3 .5432	.9743	S19 1.4590	.9665		
	M4P7 .9973	S4 .8042	.9698	S20 1.5400	.9377		
	M4P8 .9978	S5 1.0452	.9666	S21 1.8270	.9630		
	M4P9 .9982	S6 1.2422	.9670	S22 2.7840	.9053		
	M4P10 .9984	S7 1.4202	.9660	S23 3.2980	.9217		
	M4P11 .9993	S8 1.5522	.9631	S26 5.2890	.9233		
	M4P12 .9995	S9 1.4152	.9640				
		S10 2.2512	.9586				
		S27 5.3000	.9265				
		S28 1.0452	.9911				

SPIKE R6		COWL M5	
STAT XCM/MC= 3.5040	STAT XCM/MC= 3.3270		
S23 .9217	S23 .9217		
R6P1 .9508	M5P1 .9473		
R6P2 .9628	M5P2 .9505		
R6P3 .9630	M5P3 .9539		
M6P4 .9672	M5P4 .9546		
R6P5 .9704	M5P5 .9577		
M6P8 .9838	M5P6 .9638		
R6P9 .9826	M5P7 .9714		
M6P10 .9782	M5P8 .9911		
R6P11 .9644	M5P9 .9913		
	M5P10 .9900		
	M5P11 .9888		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	116	FLIGHT DATE	09/20/79	SPIKE POS.	UX/KC	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0576
		FLIGHT NO.	0	HYPASS POS.	OPEN		AMBIENT PRESS	.9191 ATMUS	K=CIRCUMF.	.5902
START	4: 9:10.001	INTERVAL	1.000	ENG. FACE RECOV		.9564	ENGINE M/M	.6643	K=RADIAL	.1727
STOP	4: 9:40.000	ENG CLK RPM	4577.	ENG. FACE MACH NO		.2654	COWL M/M	.3115	K=DELTA	.0492
				COWL LIP RECOV		.9769	ADDITIVE M/M	.3529	K=A	.2219
				MACH AT COWL LIP		.1460				

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.4752	STAT XCW/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9646	S14	.9604	A36	.9622 A198
R1P1	1.0004	R3P1	.9601	B36	.9561 B198
R1P2	1.0005	R3P2	.9600	C36	.9418 C198
R1P3	1.0009	R3P3	.9600	D36	.9349 D198
R1P4	1.0000	R3P4	.9598	E36	.9295 E198
R1P5	1.0011	R3P5	.9597	90 DEG HAKE	252 DEG HAKE
R1P6	1.0010	R3P6	.9598	A90	.9847 A252
R1P7	1.0009	R3P7	.9416	H90	.9787 H252
R1P8	1.0009	R3P8	.9609	C90	.9656 C252
R1P9	.9982	R3P9	.9696	D90	.9572 D252
		R3P10	.9878	E90	.9504 E252
		R3P11	1.0003	144 DEG HAKE	324 DEG HAKE
		R3P12	.9983	A144	.9758 A324
		R3P13	1.0019	H144	.9704 H324
		R3P14	1.0016	D144	.9558 D324
		R3P15	1.0019	C144	.9502 C324
		R3P16	1.0018	E144	.9446 E324

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.8702	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.9542	S20	.9200	XCW/KC	P/PU	IAP	XCW/KC P/PU
R2P1	.9743	K4P1	.9894	S1	.9262	.9621 S14	.0340 .9604
R2P2	.9860	K4P2	.9933	S2	.4752	.9646 S15	.1860 .9573
R2P3	.9946	K4P3	.9942	S11	.4752	.9627 S16	.4150 .9650
R2P4	.9938	K4P4	.9948	S12	.4752	.9628 S17	.8470 .9701
R2P5	.9845	K4P5	.9952	S13	.4752	.9653 S18	1.1740 .9627
		K4P6	.9952	S3	.5432	.9672 S19	1.4590 .9569
		K4P7	.9955	S4	.8042	.9616 S20	1.5400 .9200
		K4P8	.9964	S5	1.0452	.9516 S21	1.8270 .9524
		K4P9	.9975	S6	1.2922	.9580 S22	2.7840 .8780
		K4P10	.9980	S7	1.4202	.9562 S23	3.2980 .8981
		K4P11	.9987	S8	1.5522	.9525 S26	5.2890 .9007
		K4P12	.9987	S9	1.4152	.9542	
				S10	2.2512	.9470	
				S27	5.3000	.9050	
				S28	1.0452	.9843	

SPIKE K6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8981	S23	.8481
K6P1	.9369	K5P1	.9317
K6P2	.9516	K5P2	.9355
K6P3	.9519	K5P3	.9397
K6P4	.9569	K5P4	.9424
K6P5	.9622	K5P5	.9445
K6P8	.9800	K5P6	.9519
K6P9	.9785	K5P7	.9647
K6P10	.9706	K5P8	.9841
K6P11	.9550	K5P9	.9881
		K5P10	.9863
		K5P11	.9853

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	118	FLIGHT DATE 09/20/79	SPIKE POS. DX/HC	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.1025
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9185 ATMOS	K-CIRCUMF.	.4409
START	4:13:10.000	INTERVAL 1.000	ENG. FACE RECOV	.9230	ENGINE M/M	.7583	K-RADIAL	.2278
STOP	4:13:40.000	ENG LOH RPM 5634.	ENG. FACE MACH NO	.3912	COWL M/M	.3943		
			COWL LIP RECOV	.9593	ADDITIVE M/M	.3640	K-DELTA	.0635
			MACH AT COWL LIP	.1899			K-A	.2913

SPIKE R1		COWL H3		STAT XCW/HC= 5.4830	
STAT XCW/HC= .4752	STAT XCW/HC= .0700	36 DEG WAKE	198 DEG WAKE		
S2 .9390	S14 .9320	A36 .9531	A198 .9466		
R1P1 .9998	R3P1 .9319	B36 .9239	B198 .9401		
R1P2 1.0001	R3P2 .9323	C36 .9026	C198 .9324		
R1P3 1.0006	R3P3 .9323	D36 .8859	D198 .8973		
R1P4 .9992	R3P4 .9322	E36 .8751	E198 .8741		
R1P5 1.0000	R3P5 .9322	90 DEG WAKE	252 DEG WAKE		
R1P6 1.0006	R3P6 .9323	A90 .9088	A252 .9558		
R1P7 1.0006	R3P7 .9848	B90 .9561	B252 .9333		
R1P8 1.0004	R3P8 .9325	C90 .9557	C252 .9132		
R1P9 .9950	R3P9 .9389	D90 .9230	D252 .9059		
	R3P10 .9587	E90 .9155	E252 .9003		
	R3P11 .9890	144 DEG WAKE	324 DEG WAKE		
	R3P12 .9945	A144 .9619	A324 .9359		
	R3P13 1.0021	B144 .9505	B324 .9418		
	R3P14 1.0013	C144 .9171	C324 .9290		
	R3P15 1.0020	D144 .9087	D324 .9189		
	R3P16 1.0018	E144 .9003	E324 .9083		

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCW/HC= 1.8702	STAT XCW/HC= 1.5380			SPIKE		COWL	
S9 .9217	S20 .8649	TAP	XCW/HC	P/PU	TAP	XCW/HC	P/PU
R2P1 .9574	R4P1 .9791	S1 .9262	.9365	S14 .0340	.9320		
R2P2 .9765	R4P2 .9864	S2 .4752	.9390	S15 .1860	.9288		
R2P3 .9890	R4P3 .9871	S11 .4752	.9377	S16 .4150	.9391		
R2P4 .9878	R4P4 .9882	S12 .4752	.9384	S17 .8470	.9494		
R2P5 .9668	R4P5 .9893	S13 .4752	.9413	S18 1.1740	.9372		
	R4P6 .9890	S3 .5432	.9449	S19 1.4590	.9286		
	R4P7 .9901	S4 .8092	.9359	S20 1.5400	.8649		
	R4P8 .9904	S5 1.0452	.9293	S21 1.8270	.9196		
	R4P9 .9916	S6 1.2922	.9300	S22 2.7840	.7855		
	R4P10 .9930	S7 1.4202	.9269	S23 3.2980	.8190		
	R4P11 .9939	S8 1.5522	.9200	S26 5.2890	.8255		
	R4P12 .9943	S9 1.9152	.9217				
		S10 2.2512	.9101				
		S27 5.5000	.8323				
		S28 1.0452	.9821				

SPIKE R6		COWL H5	
STAT XCW/HC= 3.5040	STAT XCW/HC= 3.3270		
S23 .8190	S23 .8190		
R6P1 .8499	R5P1 .8771		
R6P2 .9141	R5P2 .8809		
R6P3 .9170	R5P3 .8880		
R6P4 .9263	R5P4 .8907		
R6P5 .9345	R5P5 .8992		
R6P6 .9660	R5P6 .9109		
R6P9 .9632	R5P7 .9403		
R6P10 .9512	R5P8 .9762		
R6P11 .9216	R5P9 .9805		
	R5P10 .9764		
	R5P11 .9743		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	119	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.1325
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9184 ATMOS	K-CIRCUMF.	.3337
START	4:15:11.001	INTERVAL 1.000	ENG. FALC RECOV	.9051	ENGINE M/M*	.8575	K-RADIAL	.2154
STOP	4:15:41.000	ENG CUM RPM 6193.	ENG. FALC MACH NO	.4462	COWL M/M*	.4240		
			COWL LIP RECOV	.9503	ADDITIVE M/M*	.4334	K-DELTA	.0588
			MACH AT COWL LIP	.2070			K-A	.2742

SPIKE R1		COWL R3		STAT XCM/RC= 5.4830	
STAT XCM/RC= .4752	STAT XCM/RC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9268	S14 .9179	A36 .9245	A198 .9324		
R1P1 .9998	R3P1 .9181	H36 .9089	H198 .9243		
R1P2 .9999	R3P2 .9179	C36 .8786	C198 .9107		
R1P3 1.0002	R3P3 .9180	D36 .8620	D198 .8743		
R1P4 .9991	R3P4 .9179	E36 .8495	E198 .8452		
R1P5 1.0004	R3P5 .9176	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0005	R3P6 .9178	A90 .9652	A252 .9445		
R1P7 1.0004	R3P7 .9820	H90 .9553	H252 .9180		
R1P8 1.0001	R3P8 .9186	C90 .9250	C252 .8933		
R1P9 .9938	R3P9 .9275	D90 .9056	D252 .8798		
	R3P10 .9539	E90 .8695	E252 .8694		
	R3P11 .9917	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9936	A144 .9497	A324 .9214		
	R3P13 1.0016	H144 .9352	H324 .9296		
	R3P14 1.0007	D144 .8973	C324 .9116		
	R3P15 1.0014	C144 .8683	D324 .8985		
	R3P16 1.0013	E144 .8792	E324 .8838		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC= 1.8702	STAT XCM/RC= 1.5380			SPIKE	P/PO	IAP	COWL XCM/RC P/PO
S9 .9045	S20 .8355	TAP	XCM/RC	P/PO	IAP	XCM/RC	P/PO
R2P1 .9476	R4P1 .9750	S1 .3262	.9238	S14 .0340	.9179		
R2P2 .9709	R4P2 .9833	S2 .4752	.9208	S15 .1860	.9144		
R2P3 .9862	R4P3 .9845	S11 .4752	.9200	S16 .4150	.9273		
R2P4 .9841	R4P4 .9856	S12 .4752	.9262	S17 .8470	.9393		
R2P5 .9613	R4P5 .9867	S13 .4752	.9291	S18 1.1740	.9242		
	R4P6 .9877	S3 .5432	.9342	S19 1.4590	.9132		
	R4P7 .9884	S4 .6092	.9226	S20 1.5400	.8355		
	R4P8 .9884	S5 1.0452	.9141	S21 1.8270	.9022		
	R4P9 .9899	S6 1.2922	.9151	S22 2.7840	.7337		
	R4P10 .9907	S7 1.4202	.9111	S23 3.2980	.7740		
	R4P11 .9927	S8 1.5522	.9028	S26 5.2890	.7828		
	R4P12 .9933	S9 1.9152	.9045				
		S10 2.2512	.8905				
		S27 5.3000	.7921				
		S28 1.0452	.9784				

SPIKE R6		COWL R5	
STAT XCM/RC= 3.5040	STAT XCM/RC= 3.3270		
S23 .7740	S23 .7740		
R6P1 .8587	R5P1 .8472		
R6P2 .8898	R5P2 .8552		
R6P3 .8951	R5P3 .8604		
R6P4 .9071	R5P4 .8634		
R6P5 .9163	R5P5 .8728		
R6P8 .9615	R5P6 .8745		
R6P9 .9575	R5P7 .9249		
R6P10 .9457	R5P8 .9720		
R6P11 .9099	R5P9 .9779		
	R5P10 .9733		
	R5P11 .9704		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	120	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.4558	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.1482
		FLIGHT NO.	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.5137
START	4:17:45.003	INTERVAL	ENG. FACE RECOV	.8485	ENGINE M/M	.8945	K-RADIAL	.2106
STOP	4:18:15.000	ENG LUK RPM	ENG. FACE MACH NO	.4687	COWL M/M	.4313		
			COWL LIP RECOV	.9461	ADDITIVE M/M	.4631	K-DELTA	.0685
			MACH AT COWL LIP	.2117			K-A	.2792

SPIKE H1		COWL H3		STAT XCM/MC= 5.4850	
STAT XCM/RC=	.4752	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9214	S14	.9127	A36	.9100 A198
R1P1	.9990	H3P1	.9126	B36	.9040 B198
R1P2	.9995	H3P2	.9126	C36	.8645 C198
R1P3	1.0000	R3P3	.9128	D36	.8501 D198
R1P4	.9985	R3P4	.9127	E36	.8344 E198
R1P5	.9999	R3P5	.9124	90 DEG HAKE	252 DEG HAKE
R1P6	1.0000	H3P6	.9125	A90	.9022 A252
R1P7	1.0002	H3P7	.9799	H90	.9488 H252
R1P8	.9998	R3P8	.9125	C90	.9122 C252
R1P9	.9921	H3P9	.9204	D90	.8445 D252
		H3P10	.9463	E90	.8807 E252
		R3P11	.9884	144 DEG HAKE	324 DEG HAKE
		R3P12	.9927	A144	.9510 A324
		H3P13	1.0013	B144	.9331 B324
		H3P14	1.0005	D144	.8970 D324
		R3P15	1.0012	C144	.8884 C324
		H3P16	1.0011	E144	.8808 E324

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCM/RC=	1.8702	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.8977	S20	.8253	XCM/KL	P/PO	XCM/RC	P/PO
R2P1	.9431	H4P1	.9709	S1	.3262 .9183	S14	.0340 .9127
R2P2	.9673	H4P2	.9811	S2	.4752 .9214	S15	.1860 .9095
R2P3	.9861	H4P3	.9825	S11	.4752 .9205	S16	.4150 .9219
R2P4	.9835	H4P4	.9838	S12	.4752 .9224	S17	.8470 .9356
R2P5	.9587	H4P5	.9851	S13	.4752 .9246	S18	1.1740 .9193
		H4P6	.9853	S3	.5432 .9246	S19	1.4590 .9077
		H4P7	.9870	S4	.8042 .9172	S20	1.5400 .8253
		H4P8	.9881	S5	1.0452 .9082	S21	1.8270 .8955
		H4P9	.9884	S6	1.2422 .9040	S22	2.7840 .7129
		H4P10	.9901	S7	1.4202 .9051	S23	3.2980 .7565
		H4P11	.9910	S8	1.5522 .8959	S26	5.2890 .7658
		H4P12	.9921	S9	1.4152 .8977		

SPIKE H6		COWL H5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7565	S23	.7565
R6P1	.8473	H5P1	.8361
R6P2	.8801	H5P2	.8433
R6P3	.8855	H5P3	.8481
R6P4	.8985	H5P4	.8530
R6P5	.9097	H5P5	.8600
R6P6	.9558	H5P6	.8751
R6P7	.9537	H5P7	.9178
H6P10	.9402	H5P8	.9645
R6P11	.8996	H5P9	.9737
		H5P10	.9715
		H5P11	.9659

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	122	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.4501	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.1517
		FLIGHT NO.	0	HYPASS POS.	OPEN	AMBIENT PRESS	.9191 ATMOS	K-CIRCUMF.	.2963
START	4:24:20.000	INTERVAL	1.000	ENG. FALC RECOV	.8424	ENGINE M/M*	.9240	K-RADIAL	.2039
STOP	4:24:49.995	ENG CUR RPM	6594.	ENG. FALC MACH NO	.4878	COWL M/M*	.4380	K-DELTA	.0729
				COWL LIP RECOV	.9430	ADDITIVE M/M*	.4860	K-A	.2769
				MACH AT COWL LIP	.2160				

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.4749	STAT XCW/RC=	.0700	30 DEG MAKE	198 DEG MAKE
S2	.9171	S14	.9086	A36	.9140 A198
R1P1	.9988	R3P1	.9085	H36	.8478 H198
R1P2	.9991	R3P2	.9083	C36	.8631 C198
R1P3	.9994	R3P3	.9082	D36	.8413 D198
R1P4	.9885	R3P4	.9084	E36	.8241 E198
R1P5	.9995	R3P5	.9084	90 DEG MAKE	252 DEG MAKE
R1P6	.9947	R3P6	.9081	A90	.9595 A252
R1P7	.9956	R3P7	.9787	H90	.9426 H252
R1P8	.9915	R3P8	.9086	C90	.9051 C252
R1P9	.9783	R3P9	.9174	D90	.8827 D252
		R3P10	.9483	E90	.8679 E252
		R3P11	.9908	144 DEG MAKE	324 DEG MAKE
		R3P12	.9923	A144	.9551 A324
		R3P13	1.0012	H144	.9343 H324
		R3P14	1.0000	D144	.8692 D324
		R3P15	1.0004	C144	.8824 C324
		R3P16	1.0008	E144	.8757 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.8699	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.8889	S20	.8172	XCW/RC	P/PU	TAP	XCW/RC P/PU
R2P1	.9358	R4P1	.9707	S1	.9146	S14	.0340 .9086
R2P2	.9445	R4P2	.9804	S2	.9171	S15	.1860 .9053
R2P3	.9847	R4P3	.9815	S11	.9165	S16	.4150 .9192
R2P4	.9617	R4P4	.9822	S12	.9182	S17	.8470 .9319
R2P5	.9526	R4P5	.9831	S13	.9216	S18	1.1740 .9152
		R4P6	.9840	S3	.9261	S19	1.4590 .9031
		R4P7	.9850	S4	.9133	S20	1.5400 .8172
		R4P8	.9861	S5	.9040	S21	1.8270 .8901
		R4P9	.9874	S6	.9044	S22	2.7840 .6944
		R4P10	.9894	S7	.9002	S23	3.2980 .7404
		R4P11	.9907	S8	.8907	S26	5.2890 .7506
		R4P12	.9913	S9	.8889		
				S10	.8766		
				S27	.7616		
				S28	.9755		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7404	S23	.7404
R6P1	.8364	R5P1	.8240
R6P2	.8711	R5P2	.8325
R6P3	.8717	R5P3	.8377
R6P4	.8868	R5P4	.8441
R6P5	.8995	R5P5	.8526
R6P8	.9423	R5P6	.8649
R6P9	.9454	R5P7	.9167
R6P10	.9061	R5P8	.9678
R6P11	.8918	R5P9	.9731
		R5P10	.9690
		R5P11	.9661

VF-12 INLET NOISE SUPPRESSION STUDY

HUN	124	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0860	AMBIENT TEMP	292.8 DEG K	MAX-MIN DIST	.0429
		FLIGHT NO.	0	HYPASS POS.	OPEN	AMBIENT PRESS	.9191 ATMOS	K-CIRCUMF.	.7440
START	4:29:15.000	INTERVAL	1.000	ENG. FALC RECUV	.9597	ENGINE M/M*	.8567	K-RADIAL	.1230
STOP	4:29:45.000	ENG CON RPM	3784.	ENG. FALC MACH NU	.2124	COWL M/M*	.8279	K-DELTA	.0621
				COWL LIP RECUV	.9432	ADDITIVE M/M*	.6288	K-A	.1850
				MACH AT COWL LIP	.0125				

SPIKE R1		COWL K3		STAT XCN/RC= 5.4830	
STAT XCN/RC=	.8450	STAT XCN/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9896	S14	.9845	A36	.9605 A198
R1P1	1.0001	R3P1	.9846	H36	.9549 H198
R1P2	1.0011	R3P2	.9845	C36	.9477 C198
R1P3	1.0014	R3P3	.9845	D36	.9457 D198
R1P4	.9998	R3P4	.9844	E36	.9431 E198
R1P5	1.0013	R3P5	.9894	90 DEG HAKE	252 DEG HAKE
R1P6	1.0014	R3P6	.9846	A90	.9835 A252
R1P7	1.0014	R3P7	.9861	H90	.9816 H252
R1P8	1.0015	R3P8	.9847	C90	.9707 C252
R1P9	1.0006	R3P9	.9844	D90	.9637 D252
		R3P10	.9903	E90	.9581 E252
		R3P11	.9931	144 DEG HAKE	324 DEG HAKE
		R3P12	.9967	A144	.9714 A324
		R3P13	1.0026	H144	.9626 H324
		R3P14	1.0023	D144	.9547 D324
		R3P15	1.0025	C144	.9548 C324
		R3P16	1.0026	E144	.9448 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCN/RC=	2.2400	STAT XCN/RC=	1.5380	SPIKE		COWL	
S9	.9654	S20	.9371	XCN/RC	P/PU	XCN/RC	P/PU
R2P1	.9862	R4P1	.9984	S1	.8460 .9867	S14	.0340 .9895
R2P2	.9969	R4P2	1.0005	S2	.8450 .9896	S15	.1860 .9868
R2P3	.9943	R4P3	1.0004	S11	.8450 .9885	S16	.4150 .9876
R2P4	.9828	R4P4	1.0008	S12	.8450 .9889	S17	.8470 .9917
R2P5	.9561	R4P5	1.0012	S13	.8450 .9893	S18	1.1740 .9849
		R4P6	1.0014	S3	.9130 .9844	S19	1.4590 .9701
		R4P7	1.0020	S4	1.1740 .9806	S20	1.5400 .9371
		R4P8	1.0022	S5	1.4150 .9671	S21	1.8270 .9653
		R4P9	1.0024	S6	1.6020 .9635	S22	2.7840 .9039
		R4P10	1.0025	S7	1.7400 .9635	S23	3.2980 .9244
		R4P11	1.0023	S8	1.9220 .9634	S26	5.2890 .9284
		R4P12	1.0013	S9	2.2850 .9654		
				S10	2.6210 .9269		
				S27	5.3000 .9301		
				S28	1.4150 .9939		

SPIKE R6		COWL K5	
STAT XCN/RC=	3.5040	STAT XCN/RC=	3.3270
S23	.9244	S23	.9244
R6P1	.9536	R5P1	.9474
R6P2	.9635	R5P2	.9510
R6P3	.9606	R5P3	.9535
R6P4	.9640	R5P4	.9542
R6P5	.9655	R5P5	.9585
R6P6	.9628	R5P6	.9633
R6P9	.9567	R5P7	.9782
R6P10	.9523	R5P8	.9932
R6P11	.9409	R5P9	.9933
		R5P10	.9869
		R5P11	.9818

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	125	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.0854	AMBIENT TEMP	292.8 DEG K	MAX=MIN DIST	.0623
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9188 ATMOS	K=CIRCUMF.	.0828
START	4131:50.001	INTERVAL 1.000	ENG. FACE RECOV	.9473	ENGINE M/M*	.8873	K=RADIAL	.1599
STOP	4132:19.998	ENG COV RPM 4163.	ENG. FACE MACH NO	.2454	COOL M/M*	.2412	K=DELTA	.0662
			COOL LIP RECOV	.9904	ADDITIVE M/M*	.6861	K=A	.2261
			MACH AT COOL LIP	.0170				

SPIKE R1		COOL R3		STAT XCM/KC= 5.4830	
STAT XCM/KC=	.8456	STAT XCM/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9866	S14	.9860	A36	.9491 A198
R1P1	1.0008	K3P1	.9859	B36	.9422 B198
R1P2	1.0019	K3P2	.9859	C36	.9337 C198
R1P3	1.0018	K3P3	.9858	D36	.9276 D198
R1P4	.9996	K3P4	.9859	E36	.9224 E198
R1P5	1.0018	K3P5	.9860	90 DEG HAKE	252 DEG HAKE
R1P6	1.0019	K3P6	.9860	A90	.9808 A252
R1P7	1.0021	K3P7	.9945	H90	.9733 B252
R1P8	1.0018	K3P8	.9858	C90	.9585 C252
R1P9	1.0006	K3P9	.9857	D90	.9508 D252
		K3P10	.9860	E90	.9457 E252
		K3P11	.9879	144 DEG HAKE	324 DEG HAKE
		K3P12	.9927	A144	.9616 A324
		K3P13	1.0027	B144	.9574 B324
		K3P14	1.0027	D144	.9468 C324
		K3P15	1.0030	E144	.9396 D324
		K3P16	1.0030	E144	.9324 E324

SPIKE R2		COOL R4		STATIC PRESSURES	
STAT XCM/KC=	2.2406	STAT XCM/KC=	1.5380	SPIKE	
S9	.9548	S20	.9167	XLW/KL	P/PU
R2P1	.9806	K4P1	.9963	TAP	IAP
R2P2	.9954	K4P2	.9996	S1	.0406 .9855 S14
R2P3	.9928	K4P3	1.0001	S2	.0456 .9866 S15
R2P4	.9788	K4P4	1.0004	S11	.9456 .9859 S16
R2P5	.9425	K4P5	1.0004	S12	.8456 .9862 S17
		K4P6	1.0007	S13	.0456 .9869 S18
		K4P7	1.0012	S3	.9136 .9863 S19
		K4P8	1.0014	S4	1.1746 .9754 S20
		K4P9	1.0021	S5	1.4156 .9574 S21
		K4P10	1.0028	S6	1.6626 .9529 S22
		K4P11	1.0027	S7	1.7906 .9533 S23
		K4P12	1.0009	S8	1.9226 .9530 S26
				S9	2.2856 .9548
				S10	2.6216 .9045
				S27	5.3000 .9087
				S28	1.4156 .9924

SPIKE R6		COOL R5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.9011	S23	.9011
R6P1	.9403	K5P1	.9305
R6P2	.9511	K5P2	.9332
K6P3	.9488	K5P3	.9372
K6P4	.9531	K5P4	.9363
K6P5	.9551	K5P5	.9440
K6P6	.9532	K5P6	.9445
K6P9	.9449	K5P7	.9688
K6P10	.9370	K5P8	.9888
K6P11	.9235	K5P9	.9897
		K5P10	.9843
		K5P11	.9777

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	126	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0849	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.0666
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9190 ATMOS	K-CIRCUMF.	.6705
START	4:33:50.001	INTERVAL 1.000	ENG. FACE RECOV	.9425	ENGINE M/M	.8981	K-RADIAL	.1656
STOP	4:34:20.000	ENG COM RPM 4289.	ENG. FACE MACH NO	.2577	COWL M/M	.2730		
			COWL LIP RECOV	.9401	ADDITIVE M/M	.6251	K-DELTA	.0758
			MACH AT COWL LIP	.0873			K-A	.2414

SPIKE R1		COWL K3		STAT XLW/KC= 5.4830	
STAT XCW/RC=	.8461	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9854	S14	.9843	A36	.9444 A198
R1P1	1.0003	R3P1	.9845	B36	.9359 B198
R1P2	1.0012	R3P2	.9845	C36	.9279 C198
R1P3	1.0015	R3P3	.9843	D36	.9216 D198
R1P4	.9989	R3P4	.9845	E36	.9156 E198
R1P5	1.0016	R3P5	.9844	90 DEG MAKE	252 DEG MAKE
R1P6	1.0015	R3P6	.9845	A90	.9784 A252
R1P7	1.0015	R3P7	.9841	B90	.9720 B252
R1P8	1.0013	R3P8	.9844	C90	.9560 C252
R1P9	1.0003	R3P9	.9843	D90	.9476 D252
		R3P10	.9850	E90	.9428 E252
		R3P11	.9890	144 DEG MAKE	324 DEG MAKE
		R3P12	.9948	A144	.9574 A324
		R3P13	1.0027	B144	.9541 B324
		R3P14	1.0023	D144	.9420 D324
		R3P15	1.0029	C144	.9339 C324
		R3P16	1.0028	E144	.9259 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	2.2411	STAT XLW/KC=	1.5380	SPIKE		COWL	
S9	.9503	S20	.9101	XLW/KC	P/PO	IAP	P/PO
R2P1	.9790	R4P1	.9962	S1	.6971 .9843	S14	.0340 .9843
R2P2	.9952	R4P2	.9942	S2	.8461 .9854	S15	.1860 .9816
R2P3	.9913	R4P3	.9947	S11	.8461 .9845	S16	.4150 .9831
R2P4	.9761	R4P4	.9948	S12	.8461 .9846	S17	.8470 .9884
R2P5	.9364	R4P5	1.0000	S13	.8461 .9855	S18	1.1740 .9790
		R4P6	1.0006	S3	.9141 .9852	S19	1.4590 .9580
		R4P7	1.0010	S4	1.1801 .9731	S20	1.5400 .9101
		R4P8	1.0016	S5	1.4161 .9540	S21	1.8270 .9506
		R4P9	1.0021	S6	1.6631 .9487	S22	2.7840 .8633
		R4P10	1.0025	S7	1.7911 .9487	S23	3.2980 .8905
		R4P11	1.0024	S8	1.9231 .9486	S26	5.2890 .8974
		R4P12	1.0002	S9	2.2861 .9503		
				S10	2.6221 .8953		
				S27	5.3000 .9001		
				S28	1.4161 .9918		

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XLW/KC=	3.3270
S23	.8905	S23	.8905
R6P1	.9337	R5P1	.9241
R6P2	.9469	R5P2	.9279
R6P3	.9443	R5P3	.9299
R6P4	.9486	R5P4	.9311
R6P5	.9518	R5P5	.9378
R6P6	.9494	R5P6	.9456
R6P7	.9405	R5P7	.9605
R6P10	.9319	R5P8	.9864
R6P11	.9182	R5P9	.9872
		R5P10	.9824
		R5P11	.9760

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	127	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0857	AMBIENT TEMP	293.3 DEG K	MAX=MIN DIST	.0722
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9197 ATMOS	K=CIRCUMF.	.0601
START	4:36:00.000	INTERVAL 1.000	ENG_FACE RECOV	.9375	ENGINE M/M*	.9057	K=RADIAL	.1757
STOP	4:36:30.000	ENG COR KPM 4383.	ENG_FACE MACH NO	.2671	COWL M/M*	.2934		
			COWL LIP RECOV	.9890	ADDITIVE M/M*	.6123	K-DELTA	.0823
			MACH AT COWL LIP	.0940			K-A	.2580

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830	
STAT XCW/RC= .8453	STAT XCW/RC= .0700	36 DEG	HAKE	198 DEG	HAKE
S2 .9836	S14 .9823	A36 .9399	A198 .9439		
R1P1 .9993	R3P1 .9826	H36 .9316	H198 .9425		
R1P2 1.0007	R3P2 .9826	C36 .9216	C198 .9418		
R1P3 1.0010	R3P3 .9826	D36 .9142	D198 .9212		
R1P4 .9982	R3P4 .9826	E36 .9102	E198 .9077		
R1P5 1.0008	R3P5 .9826	90 DEG	HAKE	252 DEG	HAKE
R1P6 1.0009	R3P6 .9826	A90 .9754	A252 .9591		
R1P7 1.0008	R3P7 .9928	H90 .9727	H252 .9431		
R1P8 1.0007	R3P8 .9826	C90 .9559	C252 .9379		
R1P9 .9998	R3P9 .9826	D90 .9455	D252 .9343		
	R3P10 .9830	E90 .9375	E252 .9275		
	R3P11 .9805	144 DEG	HAKE	324 DEG	HAKE
	R3P12 .9946	A144 .9530	A324 .9424		
	R3P13 1.0023	H144 .9471	H324 .9363		
	R3P14 1.0018	D144 .9354	D324 .9338		
	R3P15 1.0021	C144 .9273	C324 .9363		
	R3P16 1.0020	E144 .9192	E324 .9326		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC= 2.2403	STAT XCW/RC= 1.5380			SPIKE		COWL	
S9 .9464	S20 .9023			XCW/RC	P/P0	XCW/RC	P/P0
R2P1 .9774	R4P1 .9947	TAP		S1 .9463	.9828	S14 .0340	.9823
R2P2 .9946	R4P2 .9987	S1		.8453	.9836	S15 .1860	.9798
R2P3 .9900	R4P3 .9986	S2		.8453	.9827	S16 .4150	.9812
R2P4 .9724	R4P4 .9942	S11		.8453	.9830	S17 .8470	.9869
R2P5 .9319	R4P5 .9946	S12		.8453	.9836	S18 1.1740	.9770
	R4P6 1.0000	S13		.9133	.9836	S19 1.4590	.9547
	R4P7 1.0004	S3		1.1793	.9707	S20 1.5400	.9023
	R4P8 1.0009	S4		1.4153	.9503	S21 1.8270	.9466
	R4P9 1.0015	S5		1.6623	.9443	S22 2.7840	.8524
	R4P10 1.0018	S6		1.7903	.9447	S23 3.2980	.8831
	R4P11 1.0019	S7		1.9223	.9446	S26 5.2890	.8894
	R4P12 .9944	S8		2.2853	.9464		
		S9		2.6213	.8808		
		S10		5.3000	.8922		
		S27		1.4153	.9903		
		S28					

SPIKE R6		COWL K5	
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270		
S23 .8831	S23 .8831		
R6P1 .9282	R5P1 .9184		
R6P2 .9422	R5P2 .9204		
R6P3 .9395	R5P3 .9230		
R6P4 .9441	R5P4 .9268		
R6P5 .9491	R5P5 .9295		
R6P6 .9454	R5P6 .9377		
R6P9 .9366	R5P7 .9578		
R6P10 .9263	R5P8 .9879		
R6P11 .9095	R5P9 .9887		
	R5P10 .9822		
	R5P11 .9734		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	128	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0849	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.0745
		FLIGHT NO. 0	BYPASS POS.	UPEN	AMBIENT PRESS	.9190 ATMOS	K-CIRCUMF.	.6176
START	4:39: 7.874	INTERVAL 1.000	ENG. FACE RECOV	.9356	ENGINE M/M.	.9175	K-RADIAL	.1638
STOP	4:39:30.000	ENG COR KPM 4481.	ENG. FACE MACH NO	.2759	COWL M/M.	.2745		
			COWL LIP RECOV	.9880	ADDITIVE M/M.	.6430	K-DELTA	.0578
			MACH AT COWL LIP	.0880			K-A	.2416

SPIKE R1		COWL W3		STAT XCW/KC= 5.4830	
STAT XCW/RC=	.8461	STAT XCW/KC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9831	S14	.9823	A36	.9375 A198
R1P1	1.0003	R3P1	.9824	R36	.9290 B198
R1P2	1.0011	R3P2	.9824	C36	.9194 C198
R1P3	1.0016	R3P3	.9823	D36	.9129 D198
R1P4	.9987	R3P4	.9823	E36	.9056 E198
R1P5	1.0012	R3P5	.9824	90 DEG RAKE 252 DEG RAKE	
R1P6	1.0015	R3P6	.9824	A90	.9142 A252
R1P7	1.0015	R3P7	.9925	H90	.9663 B252
R1P8	1.0012	R3P8	.9823	C90	.9526 C252
R1P9	1.0001	R3P9	.9822	D90	.9408 D252
		R3P10	.9826	E90	.9325 E252
		R3P11	.9859	144 DEG RAKE 324 DEG RAKE	
		R3P12	.9914	A144	.9496 A324
		R3P13	1.0022	B144	.9472 B324
		R3P14	1.0023	D144	.9334 C324
		R3P15	1.0030	C144	.9254 D324
		R3P16	1.0026	E144	.9168 E324

SPIKE W2		COWL W4		STATIC PRESSURES			
STAT XCW/RC=	2.2411	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.9446	S20	.8995	XCW/KC	P/PU	IAP	XCW/RC P/PO
R2P1	.9765	R4P1	.9946	S1	.6971 .9825	S14	.0340 .9823
R2P2	.9944	R4P2	.9983	S2	.8461 .9831	S15	.1860 .9793
R2P3	.9903	R4P3	.9988	S11	.8461 .9827	S16	.4150 .9808
R2P4	.9746	R4P4	.9994	S12	.8461 .9829	S17	.8470 .9867
R2P5	.9281	R4P5	.9999	S13	.8461 .9834	S18	1.1740 .9764
		R4P6	1.0004	S3	.9141 .9830	S19	1.4590 .9534
		R4P7	1.0007	S4	1.1801 .9700	S20	1.5400 .8995
		R4P8	1.0015	S5	1.4161 .9488	S21	1.8270 .9450
		R4P9	1.0019	S6	1.6631 .9425	S22	2.7840 .8449
		R4P10	1.0023	S7	1.7911 .9430	S23	3.2980 .8777
		R4P11	1.0022	S8	1.9231 .9426	S26	5.2890 .8639
		R4P12	1.0001	S9	2.2861 .9446		
				S10	2.6221 .8830		
				S27	5.3000 .8881		
				S28	1.4161 .9908		

SPIKE R6		COWL W5	
STAT XCW/RC=	3.5040	STAT XCW/KC=	3.3270
S23	.8777	S23	.8777
R6P1	.9264	R5P1	.9133
R6P2	.9394	R5P2	.9105
R6P3	.9368	R5P3	.9203
R6P4	.9426	R5P4	.9214
R6P5	.9458	R5P5	.9266
R6P6	.9427	R5P6	.9324
R6P7	.9324	R5P7	.9567
R6P10	.9237	R5P8	.9861
R6P11	.9060	R5P9	.9872
		R5P10	.9403
		R5P11	.9696

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	129	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0847	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.0842
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9201 ATMOS	K-CIRCUMF.	.6182
START	4140155.001	INTERVAL	1.000	ENG. FACE RECOV	.9283	ENGINE M/M*	.9260	K-RADIAL	.1977
STOP	4141129.998	ENG CON RPM	4591.	ENG. FACE MACH NO	.2858	COML M/M*	.3086	K-DELTA	.0782
				COML LIP RECOV	.9867	ADDITIVE M/M*	.6174	K-A	.2759
				MACH AT COML LIP	.0992				

SPIKE R1		COML R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.8463	STAT XCW/RC=	.0700	30 DEG RAKE	198 DEG RAKE
S2	.9807	S14	.9792	A36	.9300 A198
R1P1	.9987	R3P1	.9795	B36	.9225 H198
R1P2	.9997	R3P2	.9794	C36	.9100 C198
R1P3	1.0001	R3P3	.9794	D36	.9028 D198
R1P4	.9970	R3P4	.9794	E36	.8987 E198
R1P5	1.0001	R3P5	.9795	90 DEG RAKE	252 DEG RAKE
R1P6	1.0004	R3P6	.9794	A90	.9720 A252
R1P7	.9999	R3P7	.9908	B90	.9600 B252
R1P8	1.0000	R3P8	.9744	C90	.9410 C252
R1P9	.9974	R3P9	.9744	D90	.9315 D252
		R3P10	.9812	E90	.9240 E252
		R3P11	.9877	144 DEG RAKE	324 DEG RAKE
		R3P12	.9933	A144	.9485 A324
		R3P13	1.0013	B144	.9434 B324
		R3P14	1.0008	D144	.9278 D324
		R3P15	1.0012	C144	.9192 C324
		R3P16	1.0014	E144	.9107 E324

SPIKE R2		COML R4		STATIC PRESSURES			
STAT XCW/RC=	2.2413	STAT XCW/RC=	1.5380	SPIKE	P/PU	TAP	COML
S9	.9386	S20	.8895	XCW/RC	P/PU	TAP	XCW/RC
R2P1	.9728	R4P1	.9935	S1	.6973	S14	.0340
R2P2	.9926	R4P2	.9973	S2	.8463	S15	.1860
R2P3	.9885	R4P3	.9974	S11	.8463	S16	.4150
R2P4	.9692	R4P4	.9975	S12	.8463	S17	.8470
R2P5	.9210	R4P5	.9982	S13	.8463	S18	1.1740
		R4P6	.9986	S3	.9143	S19	1.4590
		R4P7	.9994	S4	1.1803	S20	1.5400
		R4P8	1.0002	S5	1.4163	S21	1.8270
		R4P9	1.0006	S6	1.8633	S22	2.7840
		R4P10	1.0010	S7	1.7913	S23	3.2980
		R4P11	1.0008	S8	1.9233	S26	5.2890
		R4P12	.9988	S9	2.2863		
				S10	2.6223		
				S27	5.3000		
				S28	1.4163		

SPIKE R6		COML R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8657	S23	.8657
R6P1	.9186	R5P1	.9041
R6P2	.9336	R5P2	.9089
R6P3	.9317	R5P3	.9123
R6P4	.9369	R5P4	.9138
R6P5	.9401	R5P5	.9202
R6P8	.9442	R5P6	.9278
R6P9	.9270	R5P7	.9486
R6P10	.9158	R5P8	.9842
R6P11	.9087	R5P9	.9839
		R5P10	.9775
		R5P11	.9703

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	130	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0844	AMBIENT TEMP	293.3 DEG K	MAX=MIN DIST	.0899
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9205 ATMOS	K=CIRCUMF.	.5862
START	4:43:10.001	INTERVAL	1.000	ENG. FACE REC'D	.9225	ENGINE M/M*	.9346	K=RADIAL	.1983
STOP	4:43:40.000	ENG COM RPM	4700.	ENG. FACE MACH NO	.2473	COUL M/M*	.3090		
				COUL LIP REC'D	.9849	ADDITIVE M/M*	.6256	K=DELTA	.0637
				MACH AT COUL LIP	.0494			K=A	.2619

SPIKE R1		COUL R3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.8466	STAT XCM/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9789	S14	.9772	A36	.9242 A198
R1P1	.9951	R3P1	.9778	B36	.9160 B198
R1P2	.9960	R3P2	.9775	C36	.9038 C198
R1P3	.9996	R3P3	.9774	U36	.8460 D198
R1P4	.9964	R3P4	.9776	E36	.8913 E198
R1P5	.9977	R3P5	.9777	90 DEG RAKE	252 DEG RAKE
R1P6	.9996	R3P6	.9775	A90	.9700 A252
R1P7	.9975	R3P7	.9845	B90	.9564 B252
R1P8	.9974	R3P8	.9773	C90	.9368 C252
R1P9	.9976	R3P9	.9772	O90	.9255 O252
		R3P10	.9785	E90	.9181 E252
		R3P11	.9842	144 DEG RAKE	324 DEG RAKE
		R3P12	.9904	A144	.9436 A324
		R3P13	1.0012	B144	.9373 B324
		R3P14	1.0003	D144	.9196 C324
		R3P15	1.0010	C144	.9107 D324
		R3P16	1.0009	E144	.9019 E324

SPIKE R2		COUL R4		STATIC PRESSURES			
STAT XCM/RC=	2.2416	STAT XCM/RC=	1.5380	SPIKE		COUL	
S9	.9336	S20	.8821	XCM/RC	P/PO	IAP	XCM/RC P/PO
R2P1	.9703	R4P1	.9922	S1	.6976 .9781	S14	.0340 .9772
R2P2	.9888	R4P2	.9964	S2	.8466 .9789	S15	.1860 .9744
R2P3	.9869	R4P3	.9967	S11	.8466 .9784	S16	.4150 .9763
R2P4	.9668	R4P4	.9973	S12	.8466 .9785	S17	.8470 .9832
R2P5	.9144	R4P5	.9975	S13	.8466 .9796	S18	1.1740 .9713
		R4P6	.9979	S3	.9146 .9791	S19	1.4590 .9447
		R4P7	.9988	S4	1.1806 .9636	S20	1.5400 .8821
		R4P8	.9997	S5	1.4166 .9341	S21	1.8270 .9344
		R4P9	.9949	S6	1.6636 .9317	S22	2.7840 .8191
		R4P10	1.0002	S7	1.7916 .9323	S23	3.2980 .8558
		R4P11	1.0002	S8	1.9236 .9323	S26	5.2890 .8639
		R4P12	.9981	S9	2.2866 .9336		
				S10	2.6226 .8615		
				S27	5.3000 .8683		
				S28	1.4166 .9874		

SPIKE R6		COUL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8558	S23	.8558
R6P1	.9114	R5P1	.8945
R6P2	.9272	R5P2	.9027
R6P3	.9252	R5P3	.9027
R6P4	.9308	R5P4	.9093
R6P5	.9348	R5P5	.9149
R6P8	.9311	R5P6	.9198
R6P9	.9212	R5P7	.9464
R6P10	.9107	R5P8	.9419
R6P11	.9007	R5P9	.9849
		R5P10	.9757
		R5P11	.9683

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	131	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0844	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.0983
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9194 ATMOS	K-CIRCUMF.	.5832
START	4:45:10.000	INTERVAL	1.000	ENG. FACE RECOV	.9198	ENGINE M/M*	.9445	K-RADIAL	.2120
STOP	4:45:39.997	ENG CON RPM	4795.	ENG. FACE MACH NO	.3056	COWL M/M*	.3058		
				COWL LIP RECOV	.9851	ADDITIVE M/M*	.6387	K-DELTA	.0754
				MACH AT COWL LIP	.0484			K-A	.2874

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.8466	STAT XCW/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9792	S14	.9777	A36	.9234 A198
R1P1	.9992	R3P1	.9777	B36	.9153 B198
R1P2	1.0007	R3P2	.9780	C36	.9014 C198
R1P3	1.0008	R3P3	.9779	D36	.8924 D198
R1P4	.9973	R3P4	.9777	E36	.8854 E198
R1P5	1.0006	R3P5	.9778	90 DEG HAKE	252 DEG HAKE
R1P6	1.0005	R3P6	.9780	A90	.9698 A252
R1P7	1.0009	R3P7	.9902	B90	.9598 B252
R1P8	1.0006	R3P8	.9775	C90	.9376 C252
R1P9	.9989	R3P9	.9774	D90	.9239 D252
		R3P10	.9782	E90	.9103 E252
		R3P11	.9850	144 DEG HAKE	324 DEG HAKE
		R3P12	.9923	A144	.9388 A324
		R3P13	1.0021	B144	.9319 B324
		R3P14	1.0015	D144	.9181 D324
		R3P15	1.0023	C144	.9083 C324
		R3P16	1.0022	E144	.8985 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	2.2416	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9313	S20	.8777	XCW/RC	P/PO	IAP	XCW/RC P/PO
R2P1	.9700	R4P1	.9927	S1	.6976	S14	.0340 .9777
R2P2	.9916	R4P2	.9972	TAP		S15	.1860 .9748
R2P3	.9868	R4P3	.9977	S1	.8466	S16	.4150 .9766
R2P4	.9654	R4P4	.9985	S11	.8466	S17	.8470 .9837
R2P5	.9109	R4P5	.9989	S12	.8466	S18	1.1740 .9713
		R4P6	.9992	S13	.8466	S19	1.4590 .9432
		R4P7	1.0001	S3	.9146	S20	1.5400 .8777
		R4P8	1.0007	S4	1.1800	S21	1.8270 .9327
		R4P9	1.0010	S5	1.4166	S22	2.7840 .8107
		R4P10	1.0015	S6	1.6636	S23	3.2980 .8489
		R4P11	1.0015	S7	1.7916	S26	5.2890 .8579
		R4P12	.9991	S8	1.9236		
				S9	2.2866		
				S10	2.6226		
				S27	5.3000		
				S28	1.4166		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8489	S23	.8489
R6P1	.9084	R5P1	.8932
R6P2	.9247	R5P2	.8958
R6P3	.9246	R5P3	.9015
R6P4	.9285	R5P4	.9020
R6P5	.9316	R5P5	.9107
R6P6	.9296	R5P6	.9176
R6P9	.9179	R5P7	.9436
R6P10	.9058	R5P8	.9747
R6P11	.8A51	R5P9	.9635
		R5P10	.9769
		R5P11	.9671

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	132	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0844	AMBIENT TEMP	293.3 DEG K	MAX-MIN DIST	.1009
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9184 ATMOS	K=CIRCUMF.	.3598
START	4147120.000	INTERVAL 1.000	ENG.FALL RECOV	.9145	ENGINE M/M*	.9559	K=RADIAL	.2188
STOP	4147150.000	ENG COR RPM 4917.	ENG.FACE MACH NO	.3208	CUWL M/M*	.3279	K=DELTA	.0708
			CUWL LIP RECOV	.9855	ADDITIVE M/M*	.6280	K=A	.2896
			MACH AT CUWL LIP	.1055				

SPIKE R1		CUWL R3		STAT XCN/RC= 5.4850	
STAT XCN/RC=	.8466	STAT XCN/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9789	S14	.9769	A36	.9181 A198
R1P1	1.0005	R3P1	.9772	B36	.9087 B198
R1P2	1.0017	R3P2	.9771	C36	.8444 C198
R1P3	1.0024	R3P3	.9774	D36	.8866 D198
R1P4	.9983	R3P4	.9772	E36	.8780 E198
R1P5	1.0034	R3P5	.9770	90 DEG HAKE	252 DEG HAKE
R1P6	1.0031	R3P6	.9772	A90	.9672 A252
R1P7	1.0024	R3P7	.9906	B90	.9503 B252
R1P8	1.0030	R3P8	.9770	C90	.9506 C252
R1P9	1.0003	R3P9	.9768	D90	.9184 D252
		R3P10	.9778	E90	.9086 E252
		R3P11	.9856	144 DEG HAKE	324 DEG HAKE
		R3P12	.9917	A144	.9409 A324
		R3P13	1.0033	B144	.9328 B324
		R3P14	1.0026	D144	.9136 C324
		R3P15	1.0034	C144	.9019 D324
		R3P16	1.0032	E144	.8403 E324

SPIKE R2		CUWL R4		STATIC PRESSURES			
STAT XCN/RC=	2.2416	STAT XCN/RC=	1.5380	SPIKE		CUWL	
S9	.9272	S20	.8700	XCN/RC	P/PO	XCN/RC	P/PO
R2P1	.9678	R4P1	.9932	TAP			
R2P2	.9920	R4P2	.9985	S1	.8978 .9778	S14	.0340 .9769
R2P3	.9874	R4P3	.9986	S2	.8466 .9789	S15	.1860 .9739
R2P4	.9655	R4P4	.9993	S11	.8466 .9783	S16	.4150 .9762
R2P5	.9046	R4P5	.9999	S12	.8466 .9785	S17	.8470 .9837
		R4P6	1.0005	S13	.8466 .9794	S18	1.1740 .9702
		R4P7	1.0010	S3	.9146 .9790	S19	1.4590 .9399
		R4P8	1.0016	S4	1.1806 .9614	S20	1.5400 .8700
		R4P9	1.0023	S5	1.4166 .9340	S21	1.8270 .9286
		R4P10	1.0024	S6	1.6656 .9253	S22	2.7840 .7958
		R4P11	1.0027	S7	1.7916 .9257	S23	3.2980 .8384
		R4P12	.9998	S8	1.9236 .9258	S26	5.2890 .8475
				S9	2.2866 .9272		
				S10	2.6226 .8442		
				S27	5.3000 .8523		
				S28	1.4166 .9882		

SPIKE R6		CUWL R5	
STAT XCN/RC=	3.5040	STAT XCN/RC=	3.3270
S23	.8384	S23	.8384
R6P1	.9013	R5P1	.8836
R6P2	.9191	R5P2	.8884
R6P3	.9178	R5P3	.8893
R6P4	.9247	R5P4	.8969
R6P5	.9290	R5P5	.9024
R6P6	.9269	R5P6	.9151
R6P9	.9143	R5P7	.9415
R6P10	.9017	R5P8	.9795
R6P11	.8794	R5P9	.9821
		R5P10	.9751
		R5P11	.9661

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	133	FLIGHT DATE 09/20/79	SPIKE POS. DX/KC	.0845	AMBIENT TEMP	293.9 DEG K	MAX=MIN DIST	.1115
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9194 ATMOS	K=CIRCUMF.	.5334
START	4:49:15.003	INTERVAL 1.000	ENG. FACE REC'D	.9063	ENGINE M/M*	.49661	K=RADIAL	.2305
STOP	4:51:50.001	ENG. CUR. RPM 5051.	ENG. FACE MACH NO	.3507	COWL M/M*	.63289	K=DELTA	.0644
			COWL LIP REC'D	.9830	ADDITIVE M/M*	.6372	K=A	.2949
			MACH AT COWL LIP	.1062				

SPIKE R1		COWL R3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.8465	STAT XCW/KC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9764	S14	.9742	A36	.9121 A198
R1P1	.9994	R3P1	.9747	B36	.8998 B198
R1P2	1.0003	R3P2	.9745	C36	.8873 C198
R1P3	1.0007	R3P3	.9745	D36	.8774 D198
R1P4	.9969	R3P4	.9746	E36	.8640 E198
R1P5	1.0009	R3P5	.9745	90 DEG RAKE	252 DEG RAKE
R1P6	1.0007	R3P6	.9744	A90	.9011 A252
R1P7	1.0006	R3P7	.9888	B90	.9533 B252
R1P8	1.0004	R3P8	.9741	C90	.9278 C252
R1P9	.9985	R3P9	.9741	D90	.9113 D252
		R3P10	.9751	E90	.9011 E252
		R3P11	.9809	144 DEG RAKE	324 DEG RAKE
		R3P12	.9879	A144	.9303 A324
		R3P13	1.0017	B144	.9187 B324
		R3P14	1.0014	D144	.9025 C324
		R3P15	1.0025	C144	.8414 D324
		R3P16	1.0020	E144	.8803 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/KC=	2.2415	STAT XCW/KC=	1.5380	SPIKE			
S9	.9214	S20	.8615	XCW/KC	P/PU	1AP	COWL
R2P1	.9660	R4P1	.9915				XCW/KC
R2P2	.9904	R4P2	.9968	TAP			P/PO
R2P3	.9853	R4P3	.9974	S1	.8975	.9754	S14
R2P4	.9604	R4P4	.9979	S2	.8465	.9764	S15
R2P5	.8974	R4P5	.9986	S11	.8465	.9759	S16
		R4P6	.9992	S12	.8465	.9761	S17
		R4P7	.9997	S13	.8465	.9771	S18
		R4P8	1.0003	S3	.9145	.9767	S19
		R4P9	1.0012	S4	1.1805	.9581	S20
		R4P10	1.0019	S5	1.4165	.9289	S21
		R4P11	1.0019	S6	1.6635	.9195	S22
		R4P12	.9995	S7	1.7915	.9200	S23
				S8	1.9235	.9201	S26
				S9	2.2865	.9214	
				S10	2.6225	.8320	
				S27	5.3000	.8406	
				S28	1.4165	.9865	

SPIKE R6		COWL R5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8262	S23	.8262
R6P1	.8942	R5P1	.8747
R6P2	.9133	R5P2	.8798
R6P3	.9102	R5P3	.8852
R6P4	.9171	R5P4	.8846
R6P5	.9231	R5P5	.8449
R6P6	.9205	R5P6	.9073
R6P7	.9064	R5P7	.9357
R6P10	.8923	R5P8	.9784
R6P11	.8688	R5P9	.9827
		R5P10	.9697
		R5P11	.9610

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	134	FLIGHT DATE 09/20/79	SPK PUS. DX/RC	.0843	AMBIENT TEMP	293.9 DEG K	MAX-MIN DIST	.1393
		FLIGHT NO. 0	BYPASS PUS.	OPEN	AMBIENT PRESS	.9201 ATMOS	K-CIRCUMF.	.4774
START	4151150.001	INTERVAL 1.000	ENG. FACE RECOV	.8868	ENGINE M/M	1.0058	K-RADIAL	.2549
STOP	4152119.999	ENG COM RPM 5435.	ENG. FACE MACH NO	.3680	COML M/M	.3540		
			COWL LIP RECOV	.9789	ADDITIVE M/M	.6518	K-DELTA	.0669
			MACH AT COWL LIP	.1149			K-A	.3215

SPIKE R1		COWL M3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.8467	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9710	S14	.9690	A36	.8923 A198 .9010
R1P1	.9976	R3P1	.9695	H36	.8781 H198 .8948
R1P2	.9993	R3P2	.9693	C36	.8643 C198 .8862
R1P3	.9996	R3P3	.9694	D36	.8515 D198 .8515
R1P4	.9953	R3P4	.9692	E36	.8418 E198 .8325
R1P5	.9997	R3P5	.9692	90 DEG MAKE	252 DEG MAKE
R1P6	.9999	R3P6	.9693	A90	.9561 A252 .9287
R1P7	.9998	R3P7	.9662	H90	.9350 H252 .9001
R1P8	.9996	R3P8	.9691	C90	.9049 C252 .8657
R1P9	.9969	R3P9	.9688	D90	.8914 D252 .8814
		R3P10	.9697	E90	.8780 E252 .8721
		R3P11	.9752	144 DEG MAKE	324 DEG MAKE
		R3P12	.9840	A144	.9160 A324 .9000
		R3P13	1.0006	H144	.9096 H324 .8912
		R3P14	1.0002	D144	.8842 C324 .8858
		R3P15	1.0012	C144	.8702 D324 .8854
		R3P16	1.0008	E144	.8563 E324 .8799

SPIKE R2		COWL M4		STATIC PRESSURES					
STAT XCW/RC=	2.2417	STAT XCW/RC=	1.5380	SPK	XCW/RC	P/PU	IAP	COML	P/PO
S9	.9068	S20	.8372	S1	.8977	.9710	S14	.0340	.9690
R2P1	.9605	R4P1	.9882	S2	.8467	.9710	S15	.1860	.9658
R2P2	.9878	R4P2	.9942	S11	.8467	.9708	S16	.4150	.9684
R2P3	.9783	R4P3	.9951	S12	.8467	.9717	S17	.8470	.9775
R2P4	.9521	R4P4	.9951	S13	.8467	.9727	S18	1.1740	.9613
R2P5	.8772	R4P5	.9959	S3	.9147	.9721	S19	1.4590	.9234
		R4P6	.9968	S4	1.1807	.9509	S20	1.5400	.8372
		R4P7	.9977	S5	1.4167	.9161	S21	1.8270	.9089
		R4P8	.9987	S6	1.6637	.9054	S22	2.7840	.7340
		R4P9	.9945	S7	1.7917	.9060	S23	3.2980	.7916
		R4P10	1.0003	S8	1.9237	.9059	S26	5.2890	.8016
		R4P11	1.0002	S9	2.2867	.9068			
		R4P12	.9970	S10	2.8221	.7979			
				S27	5.3000	.8092			
				S28	1.4167	.9836			

SPIKE R6		COWL M5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7916	S23	.7916
R6P1	.8725	R5P1	.8499
R6P2	.8959	R5P2	.8542
R6P3	.8923	R5P3	.8605
R6P4	.8996	R5P4	.8674
R6P5	.9055	R5P5	.8641
R6P6	.9084	R5P6	.8807
R6P9	.8903	R5P7	.9135
R6P10	.8740	R5P8	.9710
R6P11	.8422	R5P9	.9792
		R5P10	.9640
		R5P11	.9559

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	135	FLIGHT DATE 09/20/79	SPIKE POS. OX/RC	.0039	AMBIENT TEMP	294.4 DEG K	MAX-MIN DIST	.1519
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9198 ATMOS	K-CIRCUMF.	.4272
START	5: 3:50.003	INTERVAL 1.000	ENG. FACE RECOV	.8689	ENGINE M/M*	1.0678	K-RADIAL	.2488
STOP	5: 4:19.999	ENG COW RPM 5852.	ENG. FACE MACH NO	.4015	COWL M/M*	.3846	K-DELTA	.0827
			COWL LIP RECOV	.9559	ADDITIVE M/M*	.6831	K-A	.3315
			MACH AT COWL LIP	.1280				

SPIKE R1		COWL H3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.8471	STAT XCW/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9237	S14	.9664	A36	.8754 A198
R1P1	.9904	R3P1	.9671	B36	.8625 B198
R1P2	.9987	R3P2	.9666	C36	.8414 C198
R1P3	.9627	R3P3	.9666	D36	.8286 D198
R1P4	.9308	R3P4	.9669	E36	.8173 E198
R1P5	.9840	R3P5	.9665	90 DEG RAKE	252 DEG RAKE
R1P6	.9828	R3P6	.9664	A90	.9493 A252
R1P7	.9941	R3P7	.9290	H90	.9234 H252
R1P8	.9946	R3P8	.9667	C90	.8886 C252
R1P9	.9824	R3P9	.9662	D90	.8684 D252
		R3P10	.9684	E90	.8572 E252
		R3P11	.9775	144 DEG RAKE	324 DEG RAKE
		R3P12	.9868	A144	.9090 A324
		R3P13	1.0016	B144	.8967 B324
		R3P14	1.0009	D144	.8694 D324
		R3P15	1.0016	C144	.8526 C324
		R3P16	1.0016	E144	.8353 E324

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCW/RC=	2.2421	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.8907	S20	.8169	XCW/RC	P/PO	XCW/RC	P/PO
R2P1	.9476	R4P1	.9888	S1	.8981 .9680	S14	.0340 .9664
R2P2	.9656	R4P2	.9953	S2	.8471 .9237	S15	.1860 .9629
R2P3	.9767	R4P3	.9956	S11	.8471 .9679	S16	.4150 .9665
R2P4	.9323	R4P4	.9959	S12	.8471 .9688	S17	.8470 .9757
R2P5	.8440	R4P5	.9973	S13	.8471 .9703	S18	1.1740 .9562
		R4P6	.9982	S3	.9151 .9695	S19	1.4590 .9141
		R4P7	.9985	S4	1.1811 .9455	S20	1.5400 .8169
		R4P8	.9993	S5	1.4171 .9062	S21	1.8270 .8973
		R4P9	.9994	S6	1.6041 .8928	S22	2.7840 .6910
		R4P10	1.0013	S7	1.7421 .8934	S23	3.2980 .7592
		R4P11	1.0010	S8	1.9241 .8929	S26	5.2890 .7717
		R4P12	.9967	S9	2.2871 .8907		

SPIKE H6		COWL H5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7592	S23	.7542
R6P1	.8420	R5P1	.8263
R6P2	.8805	R5P2	.8325
R6P3	.8741	R5P3	.8352
R6P4	.8735	R5P4	.8436
R6P5	.8629	R5P5	.8554
R6P6	.8803	R5P6	.8641
R6P9	.8769	R5P7	.9008
R6P10	.8555	R5P8	.9638
R6P11	.8344	R5P9	.9736
		R5P10	.9600
		R5P11	.9513

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	136	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0835	AMBIENT TEMP	295.6 DEG K	MAX=MIN DIST	.1985
		FLIGHT NU. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9196 ATMOS	K=CIRCUMF.	.3780
START	5: 5150.000	INTERVAL 1.000	ENG.FACE RECOV	.8543	ENGINE M/M*	1.1146	K=RADIAL	.2788
STOP	5: 6119.997	ENG CLK RPM 6095.	ENG.FACE MACH NO	.4372	COWL M/M*	.4060	K=DELTA	.0765
			COWL LIP RECOV	.9761	ADDITIVE M/M*	.7086	K=A	.3553
			MACH AT COWL LIP	.1325				

SPIKE R1		COWL R3		STAT XCW/RC# 5.4830	
STAT XCW/RC#	.8475	STAT XCW/RC#	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9655	S14	.9628	A36	.8622 A198 .8796
R1P1	.9980	R3P1	.9656	B36	.8445 B198 .8671
R1P2	1.0003	R3P2	.9635	C36	.8238 C198 .8572
R1P3	1.0003	R3P3	.9657	D36	.8043 D198 .8080
R1P4	.9937	R3P4	.9653	E36	.7463 E198 .7751
R1P5	1.0004	R3P5	.9633	90 DEG RAKE	252 DEG RAKE
R1P6	1.0003	R3P6	.9635	A90	.9447 A252 .9107
R1P7	1.0002	R3P7	.9834	B90	.9112 B252 .8672
R1P8	.9997	R3P8	.9635	C90	.8747 C252 .8522
R1P9	.9978	R3P9	.9633	D90	.8508 D252 .8413
		R3P10	.9651	E90	.8346 E252 .8327
		R3P11	.9749	144 DEG RAKE	324 DEG RAKE
		R3P12	.9859	A144	.9075 A324 .8753
		R3P13	1.0019	B144	.8905 B324 .8614
		R3P14	.9996	D144	.8516 C324 .8547
		R3P15	1.0021	C144	.8337 D324 .8444
		R3P16	1.0017	E144	.8157 E324 .8463

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC#	2.2425	STAT XCW/RC#	1.5380	SPIKE		COWL	
S9	.8821	S20	.7971	XCW/RC	P/PO	XCW/RC	P/PO
R2P1	.9485	R4P1	.9876	TAP		S14	.0340 .9628
R2P2	.9857	R4P2	.9945	S1	.8685 .9653	S15	.1860 .9601
R2P3	.9771	R4P3	.9955	S2	.8475 .9655	S16	.4150 .9635
R2P4	.9390	R4P4	.9961	S11	.8475 .9659	S17	.8470 .9746
R2P5	.8422	R4P5	.9971	S12	.8475 .9661	S18	1.1740 .9543
		R4P6	.9981	S13	.8475 .9678	S19	1.4590 .9066
		R4P7	.9984	S3	.9155 .9670	S20	1.5400 .7971
		R4P8	.9994	S4	1.1815 .9407	S21	1.8270 .8862
		R4P9	1.0001	S5	1.4175 .8967	S22	2.7840 .6490
		R4P10	1.0013	S6	1.8645 .8817	S23	3.2980 .7289
		R4P11	1.0013	S7	1.7425 .8827	S26	5.2890 .7421
		R4P12	.9978	S8	1.9245 .8823		
				S9	2.2875 .8821		
				S10	2.6235 .7323		
				S27	5.3000 .7498		
				S28	1.4175 .9808		

SPIKE R6		COWL R5	
STAT XCW/RC#	3.5046	STAT XCW/RC#	3.3270
S23	.7289	S23	.7289
R6P1	.8343	R5P1	.8068
R6P2	.8639	R5P2	.8121
R6P3	.8612	R5P3	.8200
R6P4	.8721	R5P4	.8219
R6P5	.8802	R5P5	.8349
R6P6	.8849	R5P6	.8446
R6P9	.8640	R5P7	.8458
R6P10	.8397	R5P8	.9008
R6P11	.8022	R5P9	.9684
		R5P10	.9598
		R5P11	.9442

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	137	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.0842	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.2173
		FLIGHT NO.	0	HYPASS POS.	OPEN	AMBIENT PRESS	.9205 ATMOS	K-CIRCUMF.	.3271
START	5: 8130.000	INTERVAL	1.000	ENG. FALF RECOV	.8421	ENGINE M/M*	1.1588	K-RADIAL	.2641
STOP	5:10150.000	ENG COW RPM	6277.	ENG. FALF MACH NO	.4534	COWL M/M*	.4107	K-DELTA	.0598
				COWL LIP RECOV	.9748	ADDITIVE M/M*	.7481	K-A	.3239
				MACH AT COWL LIP	.1342				

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.8468	STAT XCW/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9649	S14	.9603	A36	.8500 A198
R1P1	.9967	R3P1	.9608	B36	.8345 B198
R1P2	.9989	R3P2	.9608	C36	.8140 C198
R1P3	1.0003	R3P3	.9608	D36	.7973 D198
R1P4	.9937	R3P4	.9607	E36	.7817 E198
R1P5	1.0001	R3P5	.9607	90 DEG RAKE	252 DEG RAKE
R1P6	1.0007	R3P6	.9608	A90	.9374 A252
R1P7	.9999	R3P7	.9617	B90	.9091 B252
R1P8	1.0011	R3P8	.9606	C90	.8843 C252
R1P9	.9975	R3P9	.9605	D90	.8590 D252
		R3P10	.9633	E90	.8227 E252
		R3P11	.9749	144 DEG RAKE	324 DEG RAKE
		R3P12	.9653	A144	.8457 A324
		R3P13	1.0017	B144	.8756 B324
		R3P14	1.0005	D144	.8357 C324
		R3P15	1.0015	C144	.8183 D324
		R3P16	1.0010	E144	.8008 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	2.2418	STAT XCW/RC=	1.5380	SPIKE XCW/RC	P/PO	IAP	COWL XCW/RC
S9	.8747	S20	.7849	S1	.8978	.9630	S14
R2P1	.9476	R4P1	.9855	TAP			S15
R2P2	.9833	R4P2	.9939	S1	.8468	.9649	S16
R2P3	.9736	R4P3	.9944	S2	.8468	.9643	S17
R2P4	.9339	R4P4	.9949	S11	.8468	.9643	S18
R2P5	.8322	R4P5	.9956	S12	.8468	.9649	S19
		R4P6	.9962	S13	.8468	.9654	S20
		P4P7	.9977	S3	.9148	.9654	S21
		R4P8	.9984	S4	1.1808	.9371	S22
		R4P9	.9994	S5	1.4168	.8904	S23
		R4P10	1.0003	S6	1.0638	.8744	S24
		R4P11	.9944	S7	1.7918	.8752	S25
		R4P12	.9953	S8	1.9238	.8749	S26
				S9	2.2668	.8747	
				S10	2.0228	.7118	
				S27	5.3000	.7317	
				S28	1.4168	.9797	

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3276
S23	.7088	S23	.7088
R6P1	.8220	R5P1	.7920
R6P2	.8507	R5P2	.7985
R6P3	.8505	R5P3	.8053
R6P4	.8607	R5P4	.8126
R6P5	.8733	R5P5	.8226
R6P6	.8744	R5P6	.8396
R6P7	.8524	R5P7	.8965
R6P10	.8265	R5P8	.9615
R6P11	.7828	R5P9	.9663
		R5P10	.9576
		R5P11	.9409

		YF-12 INLET NOISE SUPPRESSION STUDY							
RUN	138	FLIGHT DATE	09/20/79	SPIKE POS. OX/RC	.0836	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.2381
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9196 ATMOS	K-CIRCUMF.	.2878
START	5:10:50.000	INTERVAL	1.000	ENG. FALF RECOV	.8327	ENGINE M/M*	1.2020	K-RADIAL	.2753
STOP	5:11:00.003	ENG CUM RPM	6486.	ENG. FALF MACH NO	.4764	COWL M/M*	.4303	K-DELTA	.0486
				COWL LIP RECOV	.9740	ADDITIVE M/M*	.7717	K-A	.3240
				MACH AT COWL LIP	.1409				

SPIKE R1		COWL R3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.8474	STAT XCM/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9621	S14	.9591	A36	.8424
R1P1	.9982	R3P1	.9549	B36	.8246
R1P2	1.0005	R3P2	.9549	C36	.8001
R1P3	1.0006	R3P3	.9601	D36	.7805
R1P4	.9945	R3P4	.9602	E36	.7675
R1P5	1.0008	R3P5	.9598	90 DEG RAKE	252 DEG RAKE
R1P6	1.0009	R3P6	.9597	A90	.9341
R1P7	1.0011	R3P7	.9825	H90	.8965
R1P8	1.0002	R3P8	.9594	C90	.8476
R1P9	.9974	R3P9	.9595	D90	.8238
		R3P10	.9621	E90	.8045
		R3P11	.9733	144 DEG RAKE	324 DEG RAKE
		R3P12	.9854	A144	.8491
		R3P13	1.0023	H144	.8727
		R3P14	1.0014	D144	.8259
		R3P15	1.0025	C144	.8052
		R3P16	1.0024	E144	.7844
				A198	.8626
				B198	.8488
				C198	.8377
				D198	.7713
				E198	.7358
				A252	.8983
				B252	.8536
				C252	.8314
				D252	.8239
				E252	.8075
				A324	.8627
				B324	.8495
				C324	.8330
				D324	.8300
				E324	.8228

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	2.2424	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.8696	S20	.7773	ACW/RC	P/PU	TAP	XCW/RC
R2P1	.9458	R4P1	.9862	S1	.8484	S14	.0340
R2P2	.9856	R4P2	.9939	S2	.8474	S15	.1860
R2P3	.9714	R4P3	.9936	S11	.8474	S16	.4150
R2P4	.9305	R4P4	.9958	S12	.8474	S17	.8470
R2P5	.8203	R4P5	.9972	S13	.8474	S18	1.1740
		R4P6	.9964	S3	.9154	S19	1.4590
		R4P7	.9940	S4	1.1814	S20	1.5400
		R4P8	.9944	S5	1.4174	S21	1.8270
		R4P9	1.0003	S6	1.6044	S22	2.7840
		R4P10	1.0010	S7	1.7424	S23	3.2980
		R4P11	1.0011	S8	1.9244	S26	5.2890
		R4P12	.9978	S9	2.2874		.7040
				S10	2.0234		
				S27	5.3000		
				S28	1.4174		

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.6896	S23	.6896
R6P1	.8098	R5P1	.7796
R6P2	.8313	R5P2	.7865
R6P3	.8406	R5P3	.7934
R6P4	.8535	R5P4	.8011
R6P5	.8695	R5P5	.8115
R6P8	.8703	R5P6	.8267
R6P9	.8443	R5P7	.8824
R6P10	.8204	R5P8	.9541
R6P11	.7716	R5P9	.9652
		R5P10	.9574
		R5P11	.9372

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	139	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0831	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.2457
		FLIGHT NO.	0		AMBIENT PRESS	.9203 ATMOS	K-CIRCUMF.	.2792
START	5:13: .003	INTERVAL	1.000	ENG. FACE RECOV	.8227	ENGINE M/M*	K-RADIAL	.2662
STOP	5:14:30.000	ENG CUM RPM	6678.	ENG. FACE MACH NO	.4915	COWL M/M*	K-DELTA	.0575
				COWL LIP RECOV	.9734	ADDITIVE M/M*	K-A	.3237
				MACH AT COWL LIP	.1484			

SPIKE H1		COWL H3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.8479	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9608	S14	.9564	A36	.8331
H1P1	.9970	R3P1	.9582	B36	.8123
H1P2	.9995	R3P2	.9584	C36	.7846
H1P3	1.0002	R3P3	.9578	D36	.7677
H1P4	.9936	R3P4	.9579	E36	.7500
H1P5	1.0004	R3P5	.9576	90 DEG HAKE	252 DEG HAKE
H1P6	1.0008	R3P6	.9576	A90	.9260
H1P7	1.0004	R3P7	.9740	B90	.8894
H1P8	.9996	R3P8	.9569	C90	.8372
H1P9	.9980	R3P9	.9577	D90	.8118
		R3P10	.9614	E90	.7950
		R3P11	.9740	144 DEG HAKE	324 DEG HAKE
		R3P12	.9848	A144	.8482
		R3P13	1.0016	B144	.8668
		R3P14	1.0005	C144	.8137
		R3P15	1.0020	D144	.7934
		R3P16	1.0016	E144	.7741
				A198	.8559
				B198	.8410
				C198	.8336
				D198	.7635
				E198	.7239
				A252	.8835
				B252	.8343
				C252	.8241
				D252	.8093
				E252	.7948
				A324	.8558
				B324	.8346
				C324	.8239
				D324	.8197
				E324	.8136

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCM/RC=	2.2429	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.8632	S20	.7700	XCM/RC	P/PU	IAP	XCM/RC
R2P1	.9428	R4P1	.9842	TAP			P/PU
R2P2	.9829	R4P2	.9932	S1	.8989	S14	.0340
R2P3	.9711	R4P3	.9943	S2	.8474	S15	.1860
R2P4	.9285	R4P4	.9951	S11	.8474	S16	.4150
R2P5	.8123	R4P5	.9954	S12	.8474	S17	.8470
		R4P6	.9962	S13	.8474	S18	1.1740
		R4P7	.9974	S3	.9154	S19	1.4590
		R4P8	.9986	S4	1.1614	S20	1.5400
		R4P9	.9994	S5	1.4174	S21	1.8270
		R4P10	1.0006	S6	1.6644	S22	2.7840
		R4P11	1.0007	S7	1.7424	S23	3.2980
		R4P12	.9963	S8	1.9244	S26	5.2890
				S9	2.2879		.6883
				S10	2.6234		.6726
				S27	5.3000		.6986
				S28	1.4179		.9778

SPIKE H6		COWL H5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.6742	S23	.6742
R6P1	.7988	R5P1	.7653
R6P2	.8174	R5P2	.7772
R6P3	.8335	R5P3	.7614
R6P4	.8479	R5P4	.7884
R6P5	.8560	R5P5	.8012
R6P8	.8651	R5P6	.8286
R6P9	.8374	R5P7	.8744
R6P10	.8059	R5P8	.9527
R6P11	.7559	R5P9	.9636
		R5P10	.9536
		R5P11	.9344

		YF-12 INLET NOISE SUPPRESSION STUDY							
RUN	142	FLIGHT DATE	09/20/79	SPK PUS. DX/KC	.8557	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.0558
		FLIGHT NO.	0	BYPASS PUS.	OPEN	AMBIENT PRESS	.9205 ATMUS	K-CIRCUMF.	.5169
START	5:25:50.002	INTERVAL	1.000	ENG. FACE RECOV	.9416	ENGINE M/M*	.5577	K-RADIAL	.1519
STOP	5:26:20.000	ENG COM RPM	5007.	ENG. FACE MACH NO	.3223	CUWL M/M*	.3370	K-DELTA	.0383
				CUWL LIP RECOV	.9704	ADDITIVE M/M*	.2207	K-A	.1901
				MACH AT CUWL LIP	.1498				

SPIKE R1		CUWL M3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0753	STAT XCW/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9655	S14	.9220	A36	.9315 A198 .9525
R1P1	1.0002	R3P1	.9208	B36	.9420 B198 .9560
R1P2	1.0008	R3P2	.9208	C36	.9280 C198 .9520
R1P3	1.0007	R3P3	.9203	D36	.9201 D198 .9271
R1P4	.9997	R3P4	.9206	E36	.9142 E198 .9114
R1P5	1.0008	R3P5	.9208	90 DEG HAKE	252 DEG HAKE
R1P6	1.0009	R3P6	.9210	A90	.9028 A252 .9578
R1P7	1.0007	R3P7	.9841	B90	.9039 B252 .9436
R1P8	1.0006	R3P8	.9440	C90	.9538 C252 .9358
R1P9	.9995	R3P9	.9826	D90	.9473 D252 .9295
		R3P10	1.0009	E90	.9441 E252 .9235
		R3P11	1.0030	144 DEG HAKE	324 DEG HAKE
		R3P12	.9986	A144	.9550 A324 .9522
		R3P13	1.0036	B144	.9540 B324 .9546
		R3P14	1.0032	D144	.9388 D324 .9465
		R3P15	1.0034	C144	.9337 C324 .9372
		R3P16	1.0035	E144	.9287 E324 .9312

SPIKE H2		CUWL H4		STATIC PRESSURES						
STAT XCW/KC=	1.4703	STAT XCW/KC=	1.5380	SPK	XCW/KC	P/PO	TAP	CUWL	XCW/KC	P/PO
S9	.9448	S20	.9099	S1	.0737	.9902	S14	.0340	.9220	
H2P1	.9517	H4P1	.9803	S2	.0753	.9655	S15	.1860	.9172	
H2P2	.9584	H4P2	.9856	S11	.0753	.9648	S16	.4150	.9437	
H2P3	.9716	H4P3	.9868	S12	.0753	.9653	S17	.8470	.9398	
H2P4	.9834	H4P4	.9871	S13	.0753	.9662	S18	1.1740	.9441	
H2P5	.9855	H4P5	.9875	S3	.1433	.9506	S19	1.4590	.9445	
		H4P6	.9875	S4	.4093	.9248	S20	1.5400	.9099	
		H4P7	.9875	S5	.6453	.9285	S21	1.8270	.9417	
		H4P8	.9868	S6	.8423	.9297	S22	2.7840	.8547	
		H4P9	.9870	S7	1.0203	.9326	S23	3.2980	.8736	
		H4P10	.9864	S8	1.1523	.9369	S26	5.2890	.8725	
		H4P11	.9867	S9	1.5153	.9448				
		H4P12	.9862	S10	1.8513	.9414				

SPIKE R6		CUWL H5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8736	S23	.8736
H6P1	.9370	H5P1	.9194
H6P2	.9899	H5P2	.9249
H6P3	.9555	H5P3	.9206
H6P4	.9627	H5P4	.9282
H6P5	.9647	H5P5	.9325
H6P6	.9658	H5P6	.9440
H6P9	.9622	H5P7	.9617
H6P10	.9561	H5P8	.9748
H6P11	.9382	H5P9	.9733
		H5P10	.9704
		H5P11	.9702

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	143	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8562	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.0734
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9206 ATMOS	K-CIRCUMF.	.4362
START	5:28:25.001	INTERVAL	1.000	ENG. FALC RECOV	.9259	ENGINE M/M*	.5951	K-RADIAL	.1872
STOP	5:28:55.000	ENG COR RPM	5516.	ENG. FALC MACH NO	.3714	COWL M/M*	.3743	K-DELTA	.0347
				COWL LIP RECOV	.9623	ADDITIVE M/M*	.2208	K-A	.2219
				MACH AT COWL LIP	.2252				

SPIKE R1		COWL R3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0748	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9560	S14	.9018	A36	.9388 A198 .9413
R1P1	1.0002	R3P1	.8998	B36	.9272 B198 .9431
R1P2	1.0000	R3P2	.8987	C36	.9077 C198 .9300
R1P3	1.0007	R3P3	.8994	D36	.9041 D198 .9057
R1P4	.9987	R3P4	.8992	E36	.8911 E198 .8871
R1P5	1.0010	R3P5	.8989	90 DEG HAKE	252 DEG HAKE
R1P6	1.0010	R3P6	.8995	A90	.9551 A252 .9506
R1P7	1.0012	R3P7	.9789	B90	.9534 B252 .9338
R1P8	1.0014	R3P8	.9340	C90	.9597 C252 .9166
R1P9	.9989	R3P9	.9828	D90	.9310 D252 .9114
		R3P10	1.0014	E90	.9231 E252 .9035
		R3P11	1.0024	144 DEG HAKE	324 DEG HAKE
		R3P12	.9975	A144	.9500 A324 .9423
		R3P13	1.0031	B144	.9448 B324 .9436
		R3P14	1.0028	D144	.9164 D324 .9301
		R3P15	1.0027	C144	.9121 C324 .9199
		R3P16	1.0026	E144	.9077 E324 .9099

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.4648	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9291	S20	.8859	XCM/RC	P/PO	IAP	XCM/RC P/PO
R2P1	.9379	R4P1	.9731	1AP	.9870	S14	.0340 .9018
R2P2	.9472	R4P2	.9798	S1	.0742	S15	.1860 .8948
R2P3	.9632	R4P3	.9818	S2	.0748	S16	.4150 .9294
R2P4	.9797	R4P4	.9828	S11	.0748	S17	.8470 .9233
R2P5	.9825	R4P5	.9835	S12	.0748	S18	1.1740 .9293
		R4P6	.9835	S13	.0748	S19	1.4590 .9296
		R4P7	.9836	S3	.1428	S20	1.5400 .8859
		R4P8	.9837	S4	.4088	S21	1.8270 .9262
		R4P9	.9828	S5	.6448	S22	2.7840 .8137
		R4P10	.9833	S6	.8918	S23	3.2980 .8363
		R4P11	.9828	S7	1.0198	S26	5.2690 .8380
		R4P12	.9824	S8	1.1518		
				S9	1.5148		
				S10	1.8508		
				S27	5.3000		
				S28	.6448		

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8363	S23	.8363
R6P1	.9205	R5P1	.8938
R6P2	.9366	R5P2	.9015
R6P3	.9455	R5P3	.9042
R6P4	.9512	R5P4	.9097
R6P5	.9547	R5P5	.9161
R6P8	.9571	R5P6	.9244
R6P9	.9531	R5P7	.9473
R6P10	.9459	R5P8	.9662
R6P11	.9222	R5P9	.9676
		R5P10	.9617
		R5P11	.9618

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	144	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8561	AMBIENT TEMP	296.1 DEG K	MAX=MIN DIST	.0882
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9196 ATMOS	K=CIRCUMF.	.4155
START	5:30:25.001	INTERVAL 1.000	ENG. FACE REC'D	.9186	ENGINE M/M	.6174	K=RADIAL	.1801
STOP	5:30:54.999	ENG CLK RPM 5752.	ENG. FACE MACH NO	.3463	COWL M/M	.3913		
			COWL LIP REC'D	.9590	ADDITIVE M/M	.2260	K=DELTA	.0512
			MACH AT COWL LIP	.2370			K=A	.2312

SPIKE R1		COWL K3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0749	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9527	S14	.8417	A36	.9334
R1P1	1.0005	R3P1	.8404	B36	.9197
R1P2	1.0011	R3P2	.8901	C36	.9001
R1P3	1.0013	R3P3	.8903	D36	.8876
R1P4	.9996	R3P4	.8897	E36	.8746
R1P5	1.0014	R3P5	.8903	90 DEG HAKE	252 DEG HAKE
R1P6	1.0006	R3P6	.8902	A90	.9524
R1P7	1.0013	R3P7	.9760	B90	.9441
R1P8	1.0008	R3P8	.9280	C90	.9326
R1P9	.9995	R3P9	.9818	D90	.9203
		R3P10	1.0020	E90	.9132
		R3P11	1.0036	144 DEG HAKE	324 DEG HAKE
		R3P12	.9979	A144	.9435
		R3P13	1.0039	B144	.9440
		R3P14	1.0041	D144	.9160
		R3P15	1.0040	C144	.9121
		R3P16	1.0040	E144	.9082
					.9010

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/RC=	1.4699	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9232	S20	.8728	XLW/RC	P/PO	IAP	P/PO
R2P1	.9322	R4P1	.9721	S1	.0741	S14	.0340
R2P2	.9407	R4P2	.9799	S2	.0744	S15	.1860
R2P3	.9595	R4P3	.9810	S11	.0749	S16	.4150
R2P4	.9783	R4P4	.9821	S12	.0744	S17	.4470
R2P5	.9813	R4P5	.9828	S13	.0744	S18	1.1740
		R4P6	.9828	S3	.1429	S19	1.4590
		R4P7	.9830	S4	.4084	S20	1.5400
		R4P8	.9834	S5	.6444	S21	1.8270
		R4P9	.9835	S6	.8914	S22	2.7840
		R4P10	.9827	S7	1.0199	S23	3.2980
		R4P11	.9818	S8	1.1514	S26	5.2890
		R4P12	.9803	S9	1.5144		.8192
				S10	1.8509		
				S27	5.3000		
				S28	.6444		
					.9745		

SPIKE R6		COWL K5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8180	S23	.8180
R6P1	.9085	K5P1	.8837
R6P2	.9263	K5P2	.8903
R6P3	.9407	K5P3	.8960
R6P4	.9462	K5P4	.8983
R6P5	.9513	K5P5	.9059
R6P6	.9539	K5P6	.9147
R6P9	.9499	K5P7	.9447
R6P10	.9409	K5P8	.9651
R6P11	.9171	K5P9	.9618
		K5P10	.9587
		K5P11	.9566

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	145	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.0258
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	49173 ATMOS	K-CIRCUMF.	.7861
START	11:53:31.000	INTERVAL	1.000	ENG. FACE RECOV	.9743	ENGINE M/M*	44906	K-RADIAL	.0879
STOP	11:541.998	ENG COR RPM	3795.	ENG. FACE MACH NO	.2140	COWL M/M*	.2706	K-DELTA	.0621
				COWL LIP RECOV	.9817	ADDITIVE M/M*	J2200	K-A	.1500
				MACH AT COWL LIP	.1571				

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG	RAKE
S2	.9787	S14	.9511	A36	.9726
R1P1	1.0018	R3P1	.9498	B36	.9690
R1P2	1.0018	R3P2	.9495	C36	.9647
R1P3	1.0014	R3P3	.9495	D36	.9616
R1P4	1.0019	R3P4	.9495	E36	.9597
R1P5	1.0017	R3P5	.9495	90 DEG	RAKE
R1P6	1.0014	R3P6	.9495	A90	.9643
R1P7	1.0017	R3P7	1.0018	B90	.9648
R1P8	1.0018	R3P8	.9594	C90	.9806
R1P9	1.0010	R3P9	.9611	D90	.9763
		R3P10	.9481	E90	.9743
		R3P11	1.0013	144 DEG	RAKE
		R3P12	.9992	A144	.9840
		R3P13	1.0026	B144	.9802
		R3P14	1.0025	D144	.9730
		R3P15	1.0026	C144	.9704
		R3P16	1.0026	E144	.9678
				A324	.9780
				B324	.9772
				C324	.9735
				D324	.9713
				E324	.9682

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE	P/PU	TAP	COWL
S9	.9743	S20	.9651	XCW/KC			XCW/KC
R2P1	.9909	K4P1	.9744	S1	.9949	S14	.0340
R2P2	.9958	K4P2	.9819	S2	.9787	S15	.1860
R2P3	.9935	K4P3	.9829	S11	.9772	S16	.4150
R2P4	.9874	K4P4	.9833	S12	.9728	S17	.8470
R2P5	.9835	K4P5	.9837	S13	.9728	S18	1.1740
		K4P6	.9843	S3	.1408	S19	1.4590
		K4P7	.9852	S4	.4068	S20	1.5400
		K4P8	.9856	S5	.6428	S21	1.8270
		K4P9	.9862	S6	.8848	S22	2.7840
		K4P10	.9868	S7	1.0178	S23	3.2980
		K4P11	.9876	S8	1.1448	S26	5.2890
		K4P12	.9874	S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.9422	S23	.9422
K6P1	.9713	K5P1	.9628
K6P2	.9779	K5P2	.9645
K6P3	.9801	K5P3	.9604
K6P4	.9827	K5P4	.9646
K6P5	.9841	K5P5	.9675
K6P6	.9817	K5P6	.9731
K6P9	.9776	K5P7	.9749
K6P10	.9738	K5P8	.9859
K6P11	.9670	K5P9	.9852
		K5P10	.9855
		K5P11	.9847

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	146	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.0367
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9172 ATMOS	K-CIRCUMF.	.0647
START	1156:3.000	INTERVAL 1.000	ENG. FUEL RECOV	.9642	ENGINE M/M*	.5155	K-RADIAL	.1127
STOP	1156:33.000	ENG CON RPM 4246.	ENG. FUEL MACH NO	.2554	COWL M/M*	.3139		
			COWL LIP RECOV	.9741	ADDITIVE M/M*	.2017	K-DELTA	.0703
			MACH AT COWL LIP	.1047			K-A	.1030

SPIKE R1		COWL K3		STAT XCW/RC# 5.4830	
STAT XCW/RC#	.0728	STAT XCW/RC#	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9704	S14	.9319	A36	.9629
R1P1	1.0015	R3P1	.9300	B36	.9570
R1P2	1.0016	R3P2	.9299	C36	.9511
R1P3	1.0018	R3P3	.9298	D36	.9475
R1P4	1.0018	R3P4	.9298	E36	.9436
R1P5	1.0018	R3P5	.9299	90 DEG RAKE	252 DEG RAKE
R1P6	1.0018	R3P6	.9298	A90	.9790
R1P7	1.0018	R3P7	1.0017	B90	.9785
R1P8	1.0017	R3P8	.9443	C90	.9736
R1P9	1.0003	R3P9	.9728	D90	.9684
		R3P10	.9963	E90	.9640
		R3P11	1.0019	144 DEG RAKE	324 DEG RAKE
		R3P12	.9978	A144	.9776
		R3P13	1.0022	B144	.9723
		R3P14	1.0021	D144	.9616
		R3P15	1.0023	C144	.9568
		R3P16	1.0022	E144	.9519

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC#	1.4678	STAT XCW/RC#	1.5380	SPIKE		COWL	
S9	.9619	S20	.9514	XCW/RC	P/PO	TAP	XCW/RC
R2P1	.9864	R4P1	.9720	S1	.0762	S14	.0340
R2P2	.9950	R4P2	.9743	S2	.0728	S15	.1860
R2P3	.9899	R4P3	.9753	S11	.0728	S16	.4150
R2P4	.9819	R4P4	.9755	S12	.0728	S17	.8470
R2P5	.9766	R4P5	.9772	S13	.0728	S18	1.1740
		R4P6	.9773	S3	.1408	S19	1.4590
		R4P7	.9783	S4	.4068	S20	1.5400
		R4P8	.9787	S5	.0428	S21	1.8270
		R4P9	.9795	S6	.8848	S22	2.7840
		R4P10	.9811	S7	1.0178	S23	3.2980
		R4P11	.9823	S8	1.1448	S26	5.2890
		R4P12	.9826	S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.0428		

SPIKE R6		COWL K5	
STAT XCW/RC#	3.5040	STAT XCW/RC#	3.3270
S23	.9188	S23	.9188
R6P1	.9615	R5P1	.9477
R6P2	.9688	R5P2	.9503
R6P3	.9731	R5P3	.9530
R6P4	.9760	R5P4	.9553
R6P5	.9778	R5P5	.9586
R6P6	.9738	R5P6	.9636
R6P7	.9696	R5P7	.9700
R6P10	.9656	R5P8	.9794
R6P11	.9539	R5P9	.9808
		R5P10	.9792
		R5P11	.9779

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	147	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0468
		FLIGHT NO.	0		AMBIENT PRESS	.9171 ATMOS	K-CIRCUMF.	.6320
START	1:57:45.000	INTERVAL	1.000	ENG. FACE RECOV	.9531	ENGINE M/M*	K-RADIAL	.1332
STOP	1:58:15.000	ENG CUR RPM	4633.	ENG. FACE MACH NO	.2940	COWL M/M*	K-DELTA	.1054
				COWL LIP RECOV	.9665	ADDITIVE M/M*	K-A	.2386
				MACH AT COWL LIP	.2113			

SPIKE R1		COWL R3		STAT XCW/MC= 5.4830	
STAT XCW/MC=	.0728	STAT XCW/MC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9621	S14	.9117	A36	.9507
R1P1	1.0014	R3P1	.9105	B36	.9454
R1P2	1.0020	R3P2	.9102	C36	.9383
R1P3	1.0022	R3P3	.9096	D36	.9318
R1P4	1.0020	R3P4	.9096	E36	.9292
R1P5	1.0020	R3P5	.9098	90 DEG HAKE	252 DEG HAKE
R1P6	1.0021	R3P6	.9094	A90	.9738
R1P7	1.0021	R3P7	1.0018	B90	.9734
R1P8	1.0020	R3P8	.9295	C90	.9662
R1P9	1.0005	R3P9	.9692	D90	.9589
		R3P10	.9968	E90	.9550
		R3P11	1.0019	144 DEG HAKE	324 DEG HAKE
		R3P12	.9972	A144	.9736
		R3P13	1.0025	B144	.9674
		R3P14	1.0024	D144	.9511
		R3P15	1.0025	C144	.9426
		R3P16	1.0025	E144	.9341
					.9433

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/MC=	1.4678	STAT XCW/MC=	1.5380	SPIKE		COWL	
S9	.9517	S20	.9374	XCW/MC	P/PO	XCW/MC	P/PO
R2P1	.9832	R4P1	.9648	S1	.9906	S14	.9117
R2P2	.9909	R4P2	.9665	S2	.9621	S15	.9082
R2P3	.9834	R4P3	.9681	S11	.9607	S16	.9189
R2P4	.9749	R4P4	.9679	S12	.9601	S17	.9447
R2P5	.9683	R4P5	.9679	S13	.9606	S18	.9515
		R4P6	.9689	S3	.9408	S19	.9520
		R4P7	.9706	S4	.9138	S20	.9374
		R4P8	.9710	S5	.9328	S21	.9496
		R4P9	.9718	S6	.9452	S22	.8792
		R4P10	.9735	S7	.9483	S23	.8940
		R4P11	.9751	S8	.9499	S26	.8947
		R4P12	.9766	S9	.9517		
				S10	.9802		
				S27	.8991		
				S28	1.0010		

SPIKE R6		COWL R5	
STAT XCW/MC=	3.5040	STAT XCW/MC=	3.3270
S23	.8940	S23	.8940
R6P1	.9501	R5P1	.9314
R6P2	.9599	R5P2	.9339
R6P3	.9643	R5P3	.9377
R6P4	.9691	R5P4	.9396
R6P5	.9706	R5P5	.9438
R6P6	.9657	R5P6	.9449
R6P9	.9599	R5P7	.9592
R6P10	.9554	R5P8	.9720
R6P11	.9410	R5P9	.9743
		R5P10	.9729
		R5P11	.9696

		YF-12 INLET NOISE SUPPRESSION STUDY							
RUN	148	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0608
		FLIGHT NU.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9174 ATMOS	K-CIRCUMF.	.5778
START	1159155.001	INTERVAL	1.000	ENG. FACE RECOV	.9408	ENGINE M/M*	.5635	K-RADIAL	.1536
STOP	21 0124.998	ENG COM RPM	5014.	ENG. FACE MACH NO	.3330	COWL M/M*	.3894		
				COWL LIP RECOV	.9570	ADDITIVE M/M*	.1741	K-DELTA	.1105
				MACH AT COWL LIP	.2363			K-A	.2641

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9510	S14	.8900	A36	.9386 A198 .9640
R1P1	1.0010	R3P1	.8877	H36	.9313 H198 .9622
R1P2	1.0011	R3P2	.8875	C36	.9218 C198 .9591
R1P3	1.0011	R3P3	.8875	D36	.9156 D198 .9348
R1P4	1.0011	R3P4	.8878	E36	.9097 E198 .9212
R1P5	1.0011	R3P5	.8871	90 DEG RAKE	252 DEG RAKE
R1P6	1.0011	R3P6	.8876	A90	.9059 A252 .9510
R1P7	1.0010	R3P7	1.0012	H90	.9036 H252 .9401
R1P8	1.0011	R3P8	.9122	C90	.9543 C252 .9328
R1P9	.9993	R3P9	.9621	D90	.9459 D252 .9297
		R3P10	.9956	E90	.9403 E252 .9230
		R3P11	1.0010	144 DEG RAKE	324 DEG RAKE
		R3P12	.9951	A144	.9069 A324 .9480
		R3P13	1.0019	H144	.9594 H324 .9485
		R3P14	1.0013	D144	.9385 D324 .9413
		R3P15	1.0018	C144	.9300 C324 .9355
		R3P16	1.0017	E144	.9214 E324 .9294

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9381	S20	.9215	XCW/RC	P/PU	IAP	XCW/RC P/PU
R2P1	.9764	R4P1	.9547	TAP			
R2P2	.9896	R4P2	.9570	S1	.0762 .9869	S14	.0340 .8900
R2P3	.9822	R4P3	.9590	S2	.0728 .9510	S15	.1860 .8861
R2P4	.9689	R4P4	.9600	S11	.0728 .9496	S16	.4150 .8987
R2P5	.9614	R4P5	.9604	S12	.0728 .9494	S17	.8470 .9305
		R4P6	.9617	S13	.0728 .9497	S18	1.1740 .9384
		R4P7	.9632	S3	.1408 .9245	S19	1.4590 .9400
		R4P8	.9639	S4	.4068 .8916	S20	1.5400 .9215
		R4P9	.9650	S5	.6428 .9160	S21	1.8270 .9367
		R4P10	.9671	S6	.8898 .9305	S22	2.7840 .8485
		R4P11	.9687	S7	1.0178 .9352	S23	3.2980 .8659
		R4P12	.9712	S8	1.1498 .9369	S26	5.2690 .8675
				S9	1.5128 .9381		
				S10	1.8488 .9728		
				S27	5.3000 .8732		
				S28	.6428 .9998		

SPIKE R6		COWL K5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.8659	S23	.8659
R6P1	.9360	K5P1	.9125
R6P2	.9502	K5P2	.9147
R6P3	.9558	K5P3	.9209
R6P4	.9600	K5P4	.9232
R6P5	.9628	K5P5	.9302
R6P6	.9557	K5P6	.9336
R6P9	.9505	K5P7	.9494
R6P10	.9430	K5P8	.9642
R6P11	.9262	K5P9	.9673
		K5P10	.9635
		K5P11	.9625

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	149	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0776
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9169 ATMOS	K-CIRCUMF.	.5278
START	2: 2:10.002	INTERVAL 1.000	ENG. FACE RECOV	.9290	ENGINE M/M*	.5978	K-RADIAL	.1624
STOP	2: 2:39.999	ENG CON RPM 5451.	ENG. FACE MACH NO	.3745	COWL M/M*	.4242	K-DELTA	.1274
			COWL LIP RECOV	.9484	ADDITIVE M/M*	.1736	K-A	.2899
			MACH AT COWL LIP	.2617				

SPIKE R1		COWL W3		STAT XCW/RC= 5.4830	
STAT XCW/RC= .0728	STAT XCW/RC= .0700	36 DEG HAKE	148 DEG HAKE		
S2 .9417	S14 .8669	A36 .9256	A198 .9564		
R1P1 1.0004	R3P1 .8651	B36 .9178	B198 .9572		
R1P2 1.0011	R3P2 .8646	C36 .9060	C198 .9513		
R1P3 1.0014	R3P3 .8647	D36 .8986	D198 .9241		
R1P4 1.0014	R3P4 .8645	E36 .8904	E198 .9081		
R1P5 1.0015	R3P5 .8648	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0014	R3P6 .8643	A90 .9585	A252 .9426		
R1P7 1.0016	R3P7 1.0009	B90 .9563	B252 .9253		
R1P8 1.0008	R3P8 .8992	C90 .9448	C252 .9165		
R1P9 .9992	P3P9 .9543	D90 .9350	D252 .9132		
	R3P10 .9964	E90 .9280	E252 .9039		
	R3P11 1.0009	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9945	A144 .9625	A324 .9389		
	R3P13 1.0021	B144 .9522	B324 .9394		
	R3P14 1.0015	D144 .9257	C324 .9271		
	R3P15 1.0021	C144 .9182	D324 .9209		
	R3P16 1.0021	E144 .9108	E324 .9144		

SPIKE R2		COWL W4		STATIC PRESSURES			
STAT XCW/RC= 1.4676	STAT XCW/RC= 1.5380			SPIKE		COWL	
S9 .9256	S20 .9041			XCW/RC	P/PO	XCW/RC	P/PO
R2P1 .9724	R4P1 .9417	TAP					
R2P2 .9861	R4P2 .9474	S1 .9762	.9850	S14 .0340	.8669		
R2P3 .9782	R4P3 .9493	S2 .0728	.9417	S15 .1860	.8637		
R2P4 .9629	R4P4 .9505	S11 .0728	.9400	S16 .4150	.8782		
R2P5 .9517	R4P5 .9516	S12 .0728	.9388	S17 .8470	.9159		
	R4P6 .9545	S13 .0728	.9408	S18 1.1740	.9258		
	R4P7 .9568	S3 .1408	.9098	S19 1.4590	.9275		
	R4P8 .9587	S4 .4068	.8696	S20 1.5400	.9041		
	R4P9 .9594	S5 .0428	.8990	S21 1.8270	.9234		
	R4P10 .9608	S6 .8898	.9172	S22 2.7840	.8168		
	R4P11 .9631	S7 1.0178	.9218	S23 3.2980	.8365		
	R4P12 .9646	S8 1.1498	.9243	S26 5.2890	.8381		
		S9 1.5128	.9256				
		S10 1.6488	.9666				
		S27 5.3000	.8462				
		S28 .0428	1.0004				

SPIKE W6		COWL W5	
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270		
S23 .8365	S23 .8365		
R6P1 .9207	R5P1 .8931		
R6P2 .9384	R5P2 .8987		
R6P3 .9446	R5P3 .9047		
R6P4 .9512	R5P4 .9047		
R6P5 .9548	R5P5 .9119		
R6P6 .9488	R5P6 .9200		
R6P9 .9408	R5P7 .9375		
R6P10 .9288	R5P8 .9560		
R6P11 .9051	R5P9 .9605		
	R5P10 .9571		
	R5P11 .9542		

		YF-12 INLET NOISE SUPPRESSION STUDY							
RUN	150	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	4732.2 DEG K	MAX=MIN DIST	.0838
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9176 ATMOS	K-CIRCUMF.	1.0650
START	21 41 .000	INTERVAL	1.000	ENG. FALC RECOV	.9211	ENGINE M/M	.4286	K-RADIAL	.3592
STOP	21 4130.000	ENG LUN RPM	5628.	ENG. FALC MACH NO	.3471	COWL M/M	.4405	K-DELTA	.2706
				COWL LIP RECOV	.9428	ADDITIVE M/M	-.0119	K-A	.6298
				MACH AT COWL LIP	.2745				

SPIKE R1		COWL R3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9350	S14	.8545	A36	.9217 A198 .9493
R1P1	.999A	R3P1	.8517	B36	.9102 B198 .9520
R1P2	1.0002	R3P2	.8505	C36	.8470 C198 .9461
R1P3	1.0003	R3P3	.8511	D36	.8877 D198 .9146
R1P4	1.0005	R3P4	.8515	E36	.8804 E198 .8974
R1P5	1.0006	R3P5	.8514	90 DEG RAKE	252 DEG RAKE
R1P6	1.0006	R3P6	.8514	A90	.9545 A252 .9345
R1P7	1.0005	R3P7	1.0003	B90	.9531 B252 .9161
R1P8	1.0003	R3P8	.8914	C90	.9395 C252 .9056
R1P9	.9982	R3P9	.9604	D90	.9277 D252 .9010
		R3P10	.9970	E90	.9231 E252 .8919
		R3P11	1.0001	144 DEG RAKE	324 DEG RAKE
		R3P12	.9926	A144	.9576 A324 .9312
		R3P13	1.0012	B144	.9445 B324 .9329
		R3P14	1.0002	D144	.9177 D324 .9212
		R3P15	1.0013	C144	.9086 C324 .9129
		R3P16	1.0012	E144	.8494 E324 .9044

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9180	S20	.8437	XCM/RC	P/PU	TAP	XCM/RC P/PO
R2P1	.9681	R4P1	.9388	S1	-.0762 .9825	S14	.0340 .8545
R2P2	.9851	R4P2	.9433	S2	.0726 .9350	S15	.1860 .8501
R2P3	.9754	R4P3	.9454	S11	.0726 .9344	S16	.4150 .8662
R2P4	.9579	R4P4	.9464	S12	.0726 .9322	S17	.8470 .9071
R2P5	.9475	R4P5	.9479	S13	.0726 .9347	S18	1.1740 .9186
		R4P6	.9495	S3	.1408 .9012	S19	1.4590 .9202
		R4P7	.9513	S4	.4068 .8577	S20	1.5400 .8937
		R4P8	.9532	S5	.6426 .8898	S21	1.8270 .9157
		R4P9	.9541	S6	.8848 .9094	S22	2.7840 .7969
		R4P10	.9566	S7	1.0176 .9147	S23	3.2980 .8200
		R4P11	.9586	S8	1.1498 .9165	S26	5.2890 .8212
		R4P12	.9611	S9	1.5126 .9180		
				S10	1.8488 .9620		
				S27	5.3000 .8289		
				S28	.6426 .9944		

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8200	S23	.8200
R6P1	.9142	R5P1	.8806
R6P2	.9340	R5P2	.8854
R6P3	.9412	R5P3	.8911
R6P4	.9457	R5P4	.8943
R6P5	.9486	R5P5	.9000
R6P6	.9440	R5P6	.9060
R6P9	.9359	R5P7	.9302
R6P10	.9220	R5P8	.9515
R6P11	.9047	R5P9	.9542
		R5P10	.9531
		R5P11	.9444

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	151	FLIGHT DATE 09/20/79	SPike POS. DX/RC	.8582	AMBIENT TEMP	287.8 DEG K	MAX-MIN DIST	.0889
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9170 ATMOS	K=CIRCUMF.	.4624
START	21 5140.001	INTERVAL 1.000	ENG. FACE RECOV	.9168	ENGINE M/M*	.6426	K=RADIAL	.1605
STOP	21 6110.000	ENG CON RPM 5857.	ENG. FACE MACH NO	.4106	CUML M/M*	.4503	K=DELTA	.1303
			CUML LIP RECOV	.9400	ADDITIVE M/M*	.1923	K=A	.2908
			MACH AT CUML LIP	.2821				

SPIKE R1		CUML R3		STAT XCN/RC= 5.4830	
STAT XCN/RC= .0728	STAT XCN/RC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9326	S14 .8464	A36 .9146	A198 .9488		
R1P1 1.0001	R3P1 .8437	B36 .9039	B198 .9507		
R1P2 1.0010	R3P2 .8439	C36 .8897	C198 .9434		
R1P3 1.0009	R3P3 .8435	D36 .8796	D198 .9106		
R1P4 1.0011	R3P4 .8434	E36 .8739	E198 .8912		
R1P5 1.0009	R3P5 .8432	96 DEG HAKE	252 DEG HAKE		
R1P6 1.0009	R3P6 .8434	A90 .9524	A252 .9320		
R1P7 1.0011	R3P7 1.0008	H90 .9482	B252 .9127		
R1P8 1.0009	R3P8 .8848	C90 .9338	C252 .9002		
R1P9 .9985	R3P9 .9562	D90 .9227	D252 .8979		
	R3P10 .9962	E90 .9144	E252 .8860		
	R3P11 1.0002	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9934	A144 .9555	A324 .9286		
	R3P13 1.0018	B144 .9440	B324 .9265		
	R3P14 1.0011	D144 .9141	C324 .9173		
	R3P15 1.0017	C144 .9070	D324 .9071		
	R3P16 1.0015	E144 .9000	E324 .8966		

SPIKE R2		CUML R4		STATIC PRESSURES			
STAT XCN/RC= 1.4678	STAT XCN/RC= 1.5380			SPike		CUML	
S9 .9138	S20 .8888	TAP	XCN/RC	P/PO	TAP	XCN/RC	P/PO
R2P1 .9668	R4P1 .9333	S1	.90762	.9827	S14	.0340	.8464
R2P2 .9856	R4P2 .9380	S2	.90728	.9326	S15	.1860	.8421
R2P3 .9742	R4P3 .9399	S11	.90728	.9315	S16	.4150	.8586
R2P4 .9549	R4P4 .9422	S12	.90728	.9293	S17	.8470	.9025
R2P5 .9440	R4P5 .9437	S13	.90728	.9315	S18	1.1740	.9140
	R4P6 .9467	S3	.1408	.8960	S19	1.4590	.9163
	R4P7 .9474	S4	.4068	.8506	S20	1.5400	.8888
	R4P8 .9501	S5	.6428	.8832	S21	1.8270	.9112
	R4P9 .9530	S6	.8898	.9050	S22	2.7840	.7857
	R4P10 .9554	S7	1.0178	.9097	S23	3.2980	.8078
	R4P11 .9572	S8	1.1498	.9122	S26	5.2890	.8112
	R4P12 .9603	S9	1.5128	.9138			
		S10	1.8488	.9602			
		S27	5.3000	.8187			
		S28	.6428	1.0003			

SPIKE R6		CUML R5	
STAT XCN/RC= 3.5040	STAT XCN/RC= 3.3270		
S23 .8078	S23 .8078		
R6P1 .9089	R5P1 .8726		
R6P2 .9277	R5P2 .8824		
R6P3 .9365	R5P3 .8837		
R6P4 .9414	R5P4 .8885		
R6P5 .9472	R5P5 .8926		
R6P6 .9397	R5P6 .9023		
R6P7 .9312	R5P7 .9260		
R6P10 .9219	R5P8 .9494		
R6P11 .8963	R5P9 .9541		
	R5P10 .9531		
	R5P11 .9510		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	152	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.1019
START	21 7:30.002	FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9179 ATMOS	K-CIRCUMF.	.4064
STOP	21 7:59.998	INTERVAL	1.000	ENG. FACE RECOV	.9076	ENGINE M/M	.6780	K-RADIAL	.1505
		ENG COK RPM	6074.	ENG. FACE MACH NO	.4568	COWL M/M	.4664	K-DELTA	.1184
				COWL LIP RECOV	.9330	ADDITIVE M/M	.2116	K-A	.2749
				MACH AT COWL LIP	.2458				

SPIKE R1		COWL K3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9247	S14	.8314	A36	.9074 A198 .9397
R1P1	.9989	R3P1	.8284	B36	.8439 B198 .9431
R1P2	.9998	R3P2	.8283	C36	.8785 C198 .9383
R1P3	.9997	R3P3	.8283	D36	.8667 D198 .9027
R1P4	1.0000	R3P4	.8286	E36	.8582 E198 .8768
R1P5	.9996	R3P5	.8287	90 DEG RAKE	252 DEG RAKE
R1P6	1.0000	R3P6	.8293	A90	.9457 A252 .9247
R1P7	1.0000	R3P7	.9994	B90	.9417 B252 .9057
R1P8	.9994	R3P8	.8730	C90	.9254 C252 .8918
R1P9	.9969	R3P9	.9516	D90	.9114 D252 .8867
		R3P10	.9953	E90	.9044 E252 .8755
		R3P11	.9994	144 DEG RAKE	324 DEG RAKE
		R3P12	.9913	A144	.9506 A324 .9204
		R3P13	1.0004	B144	.9357 B324 .9224
		R3P14	.9998	D144	.9086 C324 .9095
		R3P15	1.0002	C144	.9469 D324 .8968
		R3P16	1.0003	E144	.9873 E324 .8824

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9032	S20	.8770	XCM/RC	P/PU	IAP	XCM/RC P/PU
H2P1	.9630	H4P1	.9257	S1	.0762 .9797	S14	.0340 .8314
H2P2	.9848	H4P2	.9315	S2	.0728 .9247	S15	.1860 .8263
H2P3	.9726	H4P3	.9358	S11	.0728 .9244	S16	.4150 .8457
H2P4	.9523	H4P4	.9373	S12	.0728 .9225	S17	.8470 .8910
H2P5	.9374	H4P5	.9376	S13	.0728 .9250	S18	1.1740 .9052
		H4P6	.9412	S3	.1408 .8854	S19	1.4590 .9074
		H4P7	.9428	S4	.4068 .8355	S20	1.5400 .8770
		H4P8	.9442	S5	.6428 .8722	S21	1.8270 .9021
		H4P9	.9463	S6	.8898 .8951	S22	2.7840 .7632
		H4P10	.9482	S7	1.0178 .9005	S23	3.2980 .7860
		H4P11	.9516	S8	1.1448 .9025	S26	5.2890 .7902
		H4P12	.9547	S9	1.5128 .9032		
				S10	1.8488 .9044		
				S27	5.3000 .7991		
				S28	.6428 .9987		

SPIKE H6		COWL H5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7860	S23	.7860
H6P1	.9002	H5P1	.8591
H6P2	.9207	H5P2	.8673
H6P3	.9294	H5P3	.8731
H6P4	.9383	H5P4	.8741
H6P5	.9431	H5P5	.8840
H6P6	.9358	H5P6	.8947
H6P9	.9280	H5P7	.9144
H6P10	.9159	H5P8	.9422
H6P11	.8905	H5P9	.9484
		H5P10	.9474
		H5P11	.9444

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	153	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.1045
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9177 ATMOS	K-CIRCUMF.	.3741
START	21 9:20.001	INTERVAL	1.000	ENG. FALC RECOV	.9012	ENGINE M/M*	.7104	K-RADIAL	.1515
STOP	21 9:50.000	ENG COM RPM	6265.	ENG. FALC MACH NO	.4599	COML M/M*	.4777	K-DELTA	.1194
				COML LIP RECOV	.9285	ADDITIVE M/M*	.2327	K-A	.2709
				MACH. AT COML LIP	.3055				

SPIKE R1		COML R3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0728	STAT XCW/KC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9199	S14	.8200	A36	.8447 A198
R1P1	.9989	R3P1	.8181	B36	.8856 B198
R1P2	.9998	R3P2	.8178	C36	.8704 C198
R1P3	1.0003	R3P3	.8174	D36	.8583 D198
R1P4	1.0002	R3P4	.8171	E36	.8540 E198
R1P5	1.0002	R3P5	.8172	90 DEG RAKE	252 DEG RAKE
R1P6	1.0001	R3P6	.8174	A90	.9420 A252
R1P7	1.0001	R3P7	.9990	H90	.9370 H252
R1P8	.9996	R3P8	.8605	C90	.9204 C252
R1P9	.9971	R3P9	.9471	D90	.9064 D252
		R3P10	.9955	E90	.8988 E252
		R3P11	.9998	144 DEG RAKE	324 DEG RAKE
		R3P12	.9911	A144	.9482 A324
		R3P13	1.0008	B144	.9333 B324
		R3P14	1.0001	D144	.8493 D324
		R3P15	1.0005	C144	.8885 C324
		R3P16	1.0004	E144	.8770 E324

SPIKE R2		COML R4		STATIC PRESSURES			
STAT XCW/KC=	1.4678	STAT XCW/KC=	1.5380	SPIKE	P/PO	IAP	COML
S9	.8974	S20	.8644	XCW/KC	P/PO	IAP	XCW/KC
R2P1	.9602	R4P1	.9199	S1	.8789	S14	.0340
R2P2	.9819	R4P2	.9257	S2	.9149	S15	.1860
R2P3	.9695	R4P3	.9287	S11	.9190	S16	.4150
R2P4	.9459	R4P4	.9307	S12	.9169	S17	.8470
R2P5	.9313	R4P5	.9335	S13	.9203	S18	1.1740
		R4P6	.9353	S3	.8776	S19	1.4590
		R4P7	.9361	S4	.8239	S20	1.5400
		R4P8	.9385	S5	.8627	S21	1.8270
		R4P9	.9415	S6	.8898	S22	2.7840
		R4P10	.9445	S7	1.0170	S23	3.2980
		R4P11	.9455	S8	1.1448	S26	5.2890
		R4P12	.9480	S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COML R5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7690	S23	.7640
R6P1	.8901	R5P1	.8486
R6P2	.9122	R5P2	.8547
R6P3	.9247	R5P3	.8573
R6P4	.9316	R5P4	.8651
R6P5	.9382	R5P5	.8728
R6P6	.9289	R5P6	.8885
R6P7	.9200	R5P7	.9144
R6P10	.9085	R5P8	.9389
R6P11	.8779	R5P9	.9473
		R5P10	.9432
		R5P11	.9380

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	154	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.1131
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9179 ATMOS	K=CIRCUMF.	.3522
START	2:10:140.000	INTERVAL 1.000	ENG. FACE RECOV	.8450	ENGINE M/M	.7315	K=RADIAL	.1497
STOP	2:11: 9.997	ENG LOK RPM 6439.	ENG. FACE MACH NO	.4768	COWL M/M	.4897		
			COWL LIP RECOV	.9245	ADDITIVE M/M	.2418	K=DELTA	.1182
			MACH AT COWL LIP	.3157			K=A	.2679

SPIKE R1		COWL H3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9152	S14	.8103	A36	.8426 A198
R1P1	.9990	H3P1	.8081	H36	.8797 B198
R1P2	.9993	H3P2	.8077	C36	.8616 C198
R1P3	.9993	H3P3	.8073	D36	.8440 D198
R1P4	.9993	H3P4	.8074	E36	.8414 E198
R1P5	.9994	H3P5	.8069	90 DEG HAKE	252 DEG HAKE
R1P6	.9995	H3P6	.8067	A90	.9398 A252
R1P7	.9995	H3P7	.9992	B90	.9305 B252
R1P8	.9994	H3P8	.8589	C90	.9174 C252
R1P9	.9964	H3P9	.9526	D90	.9024 D252
		R3P10	.9969	E90	.8412 E252
		R3P11	.9995	144 DEG HAKE	324 DEG HAKE
		R3P12	.9909	A144	.9426 A324
		R3P13	1.0003	B144	.9255 B324
		R3P14	.9995	D144	.8404 C324
		R3P15	1.0001	C144	.8800 D324
		R3P16	1.0003	E144	.8695 E324

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.8916	S20	.8603	XCM/RC	P/PU	XCM/RC	P/PU
R2P1	.9591	H4P1	.9161	TAP		S14	.0340
R2P2	.9823	H4P2	.9231	S1	.8776	S15	.1860
R2P3	.9676	H4P3	.9277	S2	.9152	S16	.4150
R2P4	.9454	H4P4	.9247	S11	.9146	S17	.8470
R2P5	.9293	H4P5	.9324	S12	.9119	S18	1.1740
		H4P6	.9361	S13	.9154	S19	1.4590
		H4P7	.9377	S3	.8709	S20	1.5400
		H4P8	.9385	S4	.8158	S21	1.8270
		H4P9	.9408	S5	.8553	S22	2.7840
		H4P10	.9429	S6	.8818	S23	3.2980
		H4P11	.9456	S7	1.0178	S26	5.2890
		H4P12	.9445	S8	1.1448		
				S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.8428		

SPIKE H6		COWL H5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7547	S23	.7547
R6P1	.8833	H5P1	.8308
R6P2	.9070	H5P2	.8464
R6P3	.9102	H5P3	.8510
R6P4	.9274	H5P4	.8558
R6P5	.9352	H5P5	.8639
R6P8	.9255	H5P6	.8801
R6P9	.9145	H5P7	.9064
R6P10	.8997	H5P8	.9350
R6P11	.8663	H5P9	.9407
		H5P10	.9340
		H5P11	.9308

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	155	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	287.2 DEG K	MAX-MIN DIST	.1195
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9168 ATMUS	K-CIRCUMF.	.3085
START	2:12:20.000	INTERVAL 1.000	ENG. FACE RECOV	.8899	ENGINE M/M*	.7546	K-RADIAL	.1478
STOP	2:12:50.000	ENG LOM RPM 6675.	ENG. FACE MACH NO	.4964	COWL M/M*	.4993		
			COWL LIP RECOV	.9222	ADDITIVE M/M*	.2553	K-DELTA	.0952
			MACH AT COWL LIP	.3237			K-A	.2430

SPIKE R1		COWL K3		STAT XCM/RC# 5.4830	
STAT XCM/RC#	.0728	STAT XCM/RC#	.0700	36 DEG MAKE	148 DEG MAKE
S2	.9126	S14	.8026	A36	.8901
R1P1	.9996	R3P1	.8005	B36	.8730
R1P2	1.0009	R3P2	.8001	C36	.8568
R1P3	1.0010	R3P3	.7993	D36	.8427
R1P4	1.0010	R3P4	.7994	E36	.8342
R1P5	1.0008	R3P5	.7991	90 DEG MAKE	252 DEG MAKE
R1P6	1.0010	R3P6	.7991	A90	.9406
R1P7	1.0008	R3P7	1.0009	B90	.9349
R1P8	1.0009	R3P8	.8533	C90	.9125
R1P9	.9979	R3P9	.9547	D90	.8966
		R3P10	.9987	E90	.8865
		R3P11	1.0011	144 DEG MAKE	324 DEG MAKE
		R3P12	.9913	A144	.9382
		R3P13	1.0014	B144	.9206
		R3P14	1.0014	D144	.8836
		R3P15	1.0014	C144	.8718
		R3P16	1.0014	E144	.8594

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/RC#	1.4678	STAT XCM/RC#	1.5380	SPIKE		COWL	
S9	.8870	S20	.8539	XCM/RC	P/PU	TAP	XCM/RC
R2P1	.9567	R4P1	.9156	TAP			P/PU
R2P2	.9815	R4P2	.9230	S1	.0762	S14	.0340
R2P3	.9685	R4P3	.9236	S2	.0728	S15	.1860
R2P4	.9444	R4P4	.9249	S11	.0728	S16	.4150
R2P5	.9286	R4P5	.9291	S12	.0728	S17	.8470
		R4P6	.9243	S13	.0726	S18	1.1740
		R4P7	.9344	S3	.1408	S19	1.4590
		R4P8	.9371	S4	.4068	S20	1.5400
		R4P9	.9380	S5	.6428	S21	1.8270
		R4P10	.9402	S6	.8846	S22	2.7840
		R4P11	.9433	S7	1.0178	S23	3.2980
		R4P12	.9471	S8	1.1498	S26	5.2890
				S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE K6		COWL K5	
STAT XCM/RC#	3.5040	STAT XCM/RC#	3.3270
S23	.7398	S23	.7398
R6P1	.8740	K5P1	.8277
R6P2	.9012	R5P2	.8367
R6P3	.9157	K5P3	.8455
R6P4	.9265	R5P4	.8478
R6P5	.9304	K5P5	.8602
R6P8	.9243	R5P6	.8754
R6P9	.9184	R5P7	.9027
R6P10	.8992	K5P8	.9369
R6P11	.8630	K5P9	.9406
		K5P10	.9410
		K5P11	.9338

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	157	FLIGHT DATE 09/20/79	SPIKE POS. UX/NC	.8582	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0312
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9175 ATMOS	K-CIRCUMF.	.5639
START	2:18:30.002	INTERVAL 1.000	ENG. FACE RECOV	.9563	ENGINE M/M	.5113	K-RADIAL	.0805
STOP	2:18:59.997	ENG CUM KPM 4254.	ENG. FACE MACH NO	.2408	COWL M/M	.4250		
			COWL LIP RECOV	.9470	ADDITIVE M/M	.0864	K-DELTA	-.0105
			MACH AT COWL LIP	.2627			K-A	.0909

SPIKE H1		COWL H3		STAT XCW/NC= 5.4830	
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9413	S14	.8640	A36	.9599 A198
R1P1	1.0013	R3P1	.8614	B36	.9612 B198
R1P2	1.0025	R3P2	.8612	C36	.9562 C198
R1P3	1.0023	R3P3	.8609	D36	.9538 D198
R1P4	1.0025	R3P4	.8610	E36	.9504 E198
R1P5	1.0023	R3P5	.8612	90 DEG HAKE	252 DEG HAKE
R1P6	1.0026	R3P6	.8610	A90	.9610 A252
R1P7	1.0023	R3P7	1.0022	B90	.9622 B252
R1P8	1.0018	R3P8	.8868	C90	.9568 C252
R1P9	.9994	R3P9	.9454	D90	.9534 D252
		R3P10	.9927	E90	.9508 E252
		R3P11	1.0013	144 DEG HAKE	324 DEG HAKE
		R3P12	.9951	A144	.9619 A324
		R3P13	1.0028	B144	.9600 B324
		R3P14	1.0026	D144	.9501 D324
		R3P15	1.0028	C144	.9450 C324
		R3P16	1.0030	E144	.9398 E324

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9203	S20	.8920	XCW/RC	P/PO	IAP	XCW/RC P/PO
R2P1	.9719	R4P1	.9378	S1	.9867	S14	.0340 .8640
R2P2	.9886	R4P2	.9450	S2	.9728	S15	.1860 .8606
R2P3	.9774	R4P3	.9457	S11	.9728	S16	.4150 .8739
R2P4	.9608	R4P4	.9480	S12	.9728	S17	.8470 .9130
R2P5	.9494	R4P5	.9494	S13	.9728	S18	1.1740 .9240
		R4P6	.9499	S3	.1408	S19	1.4590 .9241
		R4P7	.9518	S4	.4068	S20	1.5400 .8920
		R4P8	.9543	S5	.6428	S21	1.8270 .9150
		R4P9	.9586	S6	.8898	S22	2.7840 .9129
		R4P10	.9579	S7	1.0176	S23	3.2980 .9181
		R4P11	.9581	S8	1.1498	S26	5.2890 .9162
		R4P12	.9601	S9	1.5128		

SPIKE H6		COWL H5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.9181	S23	.9181
R6P1	.9517	R5P1	.9348
R6P2	.9600	R5P2	.9356
R6P3	.9606	R5P3	.9360
R6P4	.9633	R5P4	.9377
R6P5	.9658	R5P5	.9405
R6P6	.9684	R5P6	.9423
R6P7	.9691	R5P7	.9435
R6P10	.9692	R5P8	.9500
R6P11	.9669	R5P9	.9564
		R5P10	.9601
		R5P11	.9668

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	158	FLIGHT DATE 09/20/79	SPKIE POS. DX/RC	.8582	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0506
		FLIGHT NO.	0				K-CIRCUMF.	.4502
START	2:20:40.002	INTERVAL	1.000	BYPASS POS.	CLOSED	AMBIENT PRESS	K-RADIAL	.1227
STOP	2:21:10.000	ENG COR RPM	5030.	ENG. FACE RECOV	.9288	ENGINE M/M*		
				ENG. FACE MACH NO	.3175	COWL M/M*		
				COWL LIP RECOV	.9131	ADDITIVE M/M*		
				MACH AT COWL LIP	.3452		K-DELTA	-.0147
							K-A	.1375

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.0728	STAT XCW/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9038	S14	.7779	A36	.9375 A198
R1P1	1.0008	R3P1	.7745	H36	.9357 B198
R1P2	1.0012	R3P2	.7740	C36	.9301 C198
R1P3	1.0014	R3P3	.7737	D36	.9245 D198
R1P4	1.0015	R3P4	.7739	E36	.9184 E198
R1P5	1.0016	R3P5	.7741	90 DEG MAKE	252 DEG MAKE
R1P6	1.0015	R3P6	.7734	A90	.9348 A252
R1P7	1.0015	R3P7	1.0012	H90	.9415 H252
R1P8	1.0011	R3P8	.8414	C90	.9323 C252
R1P9	.9981	R3P9	.9555	D90	.9258 D252
		R3P10	.9992	E90	.9191 E252
		R3P11	1.0012	144 DEG MAKE	324 DEG MAKE
		R3P12	.9915	A144	.9382 A324
		R3P13	1.0024	H144	.9335 B324
		R3P14	1.0013	D144	.9188 C324
		R3P15	1.0019	C144	.9087 D324
		R3P16	1.0014	E144	.8486 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC=	1.4678	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.8683	S20	.8237	XCW/RC	P/PU	IAP	XCW/RC
R2P1	.9525	H4P1	.8941	TAP			P/PU
R2P2	.9824	H4P2	.9060	S1	.9775	S14	.0340
R2P3	.9620	H4P3	.9064	S2	.9038	S15	.1860
R2P4	.9346	H4P4	.9151	S11	.8986	S16	.4150
R2P5	.9154	H4P5	.9174	S12	.8948	S17	.8470
		H4P6	.9144	S13	.9020	S18	1.1740
		H4P7	.9214	S3	.8479	S19	1.4590
		H4P8	.9249	S4	.7804	S20	1.5400
		H4P9	.9278	S5	.8287	S21	1.8270
		H4P10	.9318	S6	.8589	S22	2.7840
		H4P11	.9355	S7	1.0178	S23	3.2980
		H4P12	.9374	S8	1.1496	S26	5.2890

SPIKE R6		COWL K5		STAT XCW/RC= 3.3276	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3276	S27	5.3000
S23	.8649	S23	.8649	S28	.8642
H6P1	.9200	H5P1	.8903		1.0001
H6P2	.9320	H5P2	.8940		
H6P3	.9357	H5P3	.8957		
H6P4	.9385	H5P4	.8989		
H6P5	.9413	H5P5	.9043		
H6P6	.9491	H5P6	.9054		
H6P7	.9500	H5P7	.9085		
H6P10	.9506	H5P8	.9176		
H6P11	.9480	H5P9	.9283		
		H5P10	.9358		
		H5P11	.9452		

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	159	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8542	AMBIENT TEMP	288.3 DEG K	MAX-MIN DIST	.0596
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9180 ATMOS	K-CIRCUMF.	.3583
START	2:22:15.000	INTERVAL	1.000	ENG. FALC REC'D	.9052	ENGINE M/M*	.6029	K-RADIAL	.1397
STOP	2:22:45.000	ENG COK RPM	5633.	ENG. FALC MACH NO	.3742	COWL M/M*	.5771	K-DELTA	-.0132
				COWL LIP REC'D	.8842	ADDITIVE M/M*	.0258	K-A	.1530
				MACH AT COWL LIP	.4037				

SPIKE R1		COWL R3		STAT XCW/MC= 5.4830	
STAT XCW/MC=	.0728	STAT XCW/MC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8727	S14	.7079	A36	.9180 A198
R1P1	.9989	K3P1	.7027	H36	.9184 B198
R1P2	1.0001	K3P2	.7021	C36	.9099 C198
R1P3	1.0006	K3P3	.7023	D36	.9031 D198
R1P4	1.0004	K3P4	.7022	E36	.8944 E198
R1P5	1.0002	K3P5	.7018	90 DEG HAKE	252 DEG HAKE
R1P6	1.0005	K3P6	.7021	A90	.9176 A252
R1P7	1.0005	K3P7	1.0001	H90	.9180 B252
R1P8	1.0003	K3P8	.8217	C90	.9075 C252
R1P9	.9975	K3P9	.9726	D90	.8957 D252
		K3P10	1.0000	E90	.8878 E252
		K3P11	.9996	144 DEG HAKE	324 DEG HAKE
		K3P12	.9870	A144	.9253 A324
		K3P13	1.0010	B144	.9231 B324
		K3P14	.9997	D144	.8991 C324
		K3P15	1.0004	C144	.8852 D324
		K3P16	1.0008	E144	.8714 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/MC=	1.4678	STAT XCW/MC=	1.5380	SPIKE		COWL	
S9	.8239	S23	.7001	XCW/MC	P/PU	XCW/MC	P/PU
R2P1	.9331	K4P1	.8653	S1	.9691	S14	.0340
R2P2	.9784	K4P2	.8760	S2	.8727	S15	.1860
R2P3	.9574	K4P3	.8801	S11	.8687	S16	.4150
R2P4	.9174	K4P4	.8832	S12	.8690	S17	.8470
R2P5	.8877	K4P5	.8877	S13	.8718	S18	1.1740
		K4P6	.8909	S3	.7996	S19	1.4590
		K4P7	.8954	S4	.7103	S20	1.5400
		K4P8	.8947	S5	.7733	S21	1.8270
		K4P9	.9041	S6	.8898	S22	2.7840
		K4P10	.9089	S7	1.0178	S23	3.2980
		K4P11	.9165	S8	1.1498	S26	5.2890
		K4P12	.9227	S9	1.5128		.8169
				S10	1.8468		
				S27	5.3000		
				S28	.0428		

SPIKE R6		COWL R5	
STAT XCW/MC=	3.5040	STAT XCW/MC=	3.3270
S23	.8173	S23	.8173
K6P1	.8965	K5P1	.8532
K6P2	.9091	K5P2	.8579
K6P3	.9171	K5P3	.8604
K6P4	.9216	K5P4	.8633
K6P5	.9247	K5P5	.8671
K6P6	.9356	K5P6	.8696
K6P7	.9380	K5P7	.8700
K6P8	.9354	K5P8	.8883
K6P9	.9348	K5P9	.9028
K6P10		K5P10	.9147
K6P11		K5P11	.9265

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	160	FLIGHT DATE 09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	289.4 DEG K	MAX=MIN DIST	.0760
START	21241.000	FLIGHT NO. 0	HYPASS POS.	CLOSED	AMBIENT PRESS	.9183 ATMOS	K=CIRCUMF.	.2908
STOP	2124129.999	INTERVAL 1.000	ENG. FUEL RECOV	.8898	ENGINE M/M*	.6574	K=RADIAL	.1414
		ENG COM RPM 6062.	ENG. FUEL MACH NO	.4169	COWL M/M*	.6085	K=DELTA	-.0044
			COWL LIP RECOV	.8639	ADUITIVE M/M*	.0489	K=A	.1458
			MACH AT COWL LIP	.4445				

SPIKE R1		COWL R3		STAT XCM/KC= 5.4850	
STAT XCM/RC= .0728		STAT XCM/KC= .0700		36 DEG HAKE	198 DEG HAKE
S2 .8520	S14 .6506	A36 .4054	A198 .4141		
R1P1 .9981	K3P1 .6506	H36 .4052	H198 .9043		
R1P2 .9994	K3P2 .6503	C36 .8452	C198 .9049		
R1P3 .9996	K3P3 .6499	D36 .8837	D198 .8782		
R1P4 .9996	K3P4 .6497	E36 .8735	E198 .8592		
R1P5 .9996	K3P5 .6496	90 DEG HAKE	252 DEG HAKE		
R1P6 .9997	K3P6 .6499	A90 .9040	A252 .9042		
R1P7 .9995	K3P7 .9993	H90 .9036	H252 .9007		
R1P8 .9994	K3P8 .8481	C90 .8406	C252 .8948		
R1P9 .9965	K3P9 .9413	D90 .8700	D252 .8813		
	K3P10 1.0002	E90 .8683	E252 .8670		
	K3P11 .9999	144 DEG HAKE	324 DEG HAKE		
	K3P12 .9870	A144 .9164	A324 .9008		
	K3P13 1.0005	H144 .9133	H324 .9056		
	K3P14 .9994	D144 .8822	D324 .8898		
	K3P15 1.0003	C144 .8657	C324 .8805		
	K3P16 1.0002	E144 .8443	E324 .8720		

SPIKE R2		COWL R4		STATIC PRESSURES	
STAT XCM/RC= 1.4678		STAT XCM/KC= 1.5380			
S9 .7905	S20 .7213				
R2P1 .9250	K4P1 .8417	TAP	XCM/KC	P/PU	IAP
R2P2 .9796	K4P2 .8530	S1 .0702	.9646	S14 .0340	.6566
R2P3 .9444	K4P3 .8583	S2 .0728	.8520	S15 .1860	.6500
R2P4 .9004	K4P4 .8611	S11 .0728	.8472	S16 .4150	.6854
R2P5 .8669	K4P5 .8686	S12 .0728	.8465	S17 .8470	.7760
	K4P6 .8709	S13 .0728	.8508	S18 1.1740	.8029
	K4P7 .8759	S3 .1408	.7645	S19 1.4590	.8033
	K4P8 .8825	S4 .4068	.6608	S20 1.5400	.7213
	K4P9 .8887	S5 .6428	.7329	S21 1.8270	.7781
	K4P10 .8925	S6 .8898	.7783	S22 2.7840	.7735
	K4P11 .8949	S7 1.0178	.7892	S23 3.2980	.7834
	K4P12 .9055	S8 1.1498	.7941	S26 5.2890	.7838
		S9 1.5128	.7905		
		S10 1.8488	.7906		
		S27 5.3000	.7935		
		S28 .6428	.4984		

SPIKE R6		COWL R5	
STAT XCM/RC= 3.5040		STAT XCM/KC= 3.3270	
S23 .7834	S23 .7834		
R6P1 .8768	K5P1 .8260		
R6P2 .8927	K5P2 .8301		
R6P3 .9000	K5P3 .8322		
R6P4 .9079	K5P4 .8346		
R6P5 .9119	K5P5 .8422		
R6P8 .9234	K5P6 .8401		
R6P9 .9265	K5P7 .8528		
R6P10 .9258	K5P8 .8654		
R6P11 .9222	K5P9 .8826		
	K5P10 .8974		
	K5P11 .9155		

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	161	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	289.4 DEG K	MAX-MIN DIST	.0836
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9179 ATMOS	K-CIRCUMF.	.2551
START	2125:20.001	INTERVAL	1.000	ENG. FALC RECOV	.8803	ENGINE M/M*	.6922	K-RADIAL	.1389
STOP	2125:49.998	ENG CLK RPM	6280.	ENG. FALC MACH NO	.4384	COWL M/M*	.6223		
				COWL LIP RECOV	.8520	ADDITIVE M/M*	.0700	K-DELTA	-.0010
				MACH AT COWL LIP	.4682			K-A	.1399

SPIKE R1		COWL K3		STAT XCM/KC= 5.4830	
STAT XCM/KC=	.0728	STAT XCM/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8413	S14	.6269	A36	.8497 A198
R1P1	.9845	R3P1	.6219	H36	.9006 H198
R1P2	.9924	R3P2	.6215	C36	.8861 C198
R1P3	1.0002	R3P3	.6211	U36	.8747 U198
R1P4	.9917	R3P4	.6205	E36	.8651 E198
R1P5	1.0001	R3P5	.6202	90 DEG HAKE	252 DEG HAKE
R1P6	1.0004	R3P6	.6223	A90	.8484 A252
R1P7	.9872	R3P7	.4915	H90	.8491 H252
R1P8	.9998	R3P8	.8929	C90	.8821 C252
R1P9	.9975	R3P9	.4983	D90	.8642 D252
		R3P10	1.0007	E90	.8586 E252
		R3P11	.4949	144 DEG HAKE	324 DEG HAKE
		R3P12	.9872	A144	.9086 A324
		R3P13	1.0014	H144	.9025 H324
		R3P14	.9949	D144	.8692 D324
		R3P15	1.0006	C144	.8521 C324
		R3P16	1.0003	E144	.8350 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCM/KC=	1.4674	STAT XCM/KC=	1.5380	SPIKE	XCM/KC	P/PU	TAP
S9	.7726	S20	.6944	S1	.0762	.9624	S14
R2P1	.9142	R4P1	.8234	S2	.0726	.8413	S15
R2P2	.9402	R4P2	.8357	S11	.0728	.8365	S16
R2P3	.9479	R4P3	.8430	S12	.0728	.8350	S17
R2P4	.8904	R4P4	.8480	S13	.0728	.8383	S18
R2P5	.8566	R4P5	.8516	S3	.1408	.7458	S19
		R4P6	.8552	S4	.4068	.6317	S20
		R4P7	.8607	S5	.6428	.7045	S21
		R4P8	.8642	S6	.8848	.7543	S22
		R4P9	.8745	S7	1.0178	.7710	S23
		R4P10	.8828	S8	1.1448	.7758	S26
		R4P11	.8819	S9	1.5128	.7726	
		R4P12	.8936	S10	1.8488	.8810	
				S27	5.3000	.7759	
				S28	.6426	.4987	

SPIKE R6		COWL K5	
STAT XCM/KC=	3.5040	STAT XCM/KC=	3.3270
S23	.7644	S23	.7644
R6P1	.8658	R5P1	.8047
R6P2	.8868	R5P2	.8141
R6P3	.8938	R5P3	.8189
R6P4	.9006	R5P4	.8230
R6P5	.9043	R5P5	.8280
R6P8	.9226	R5P6	.8323
R6P9	.9250	R5P7	.8409
R6P10	.9249	R5P8	.8559
R6P11	.9203	R5P9	.8766
		R5P10	.8932
		R5P11	.9103

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	162	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	289.4 DEG K	MAX-MIN DIST	.0891
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.2308
START	2127110.001	INTERVAL	1.000	ENG. FACE RECOV	.8743	ENGINE M/M*	.7141	K-RADIAL	.1358
STOP	2127139.999	ENG CUM RPM	6461.	ENG. FACE MACH NO	.4560	COWL M/M*	.6314		
				COWL LIP RECOV	.8440	ADDITIVE M/M*	.0828	K-DELTA	-.0035
				MACH AT COWL LIP	.4814			K-A	.1393

SPIKE R1		COWL H3		STAT XLM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.8334	S14	.6071	A36	.8437
R1P1	.9976	R3P1	.6007	B36	.8423
R1P2	.9992	R3P2	.6003	C36	.8773
R1P3	.9993	R3P3	.6002	D36	.8690
R1P4	.9993	R3P4	.6004	E36	.8557
R1P5	.9992	R3P5	.6002	90 DEG HAKE	252 DEG HAKE
R1P6	.9993	R3P6	.6028	A90	.8918
R1P7	.9993	R3P7	.9989	B90	.8975
R1P8	.9992	R3P8	.9104	C90	.8787
R1P9	.9963	R3P9	.9986	D90	.8596
		R3P10	.9998	E90	.8503
		R3P11	.9996	144 DEG HAKE	324 DEG HAKE
		R3P12	.9864	A144	.9054
		R3P13	.9999	B144	.8980
		R3P14	.9996	D144	.8603
		R3P15	.9997	C144	.8439
		R3P16	.9996	E144	.8275
				A324	.8943
				B324	.8928
				C324	.8726
				D324	.8641
				E324	.8540

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5380				
S9	.7589	S20	.6810	SPIKE		COWL	
R2P1	.9044	H4P1	.8121	XCM/KL	P/PU	XCM/RC	P/PU
R2P2	.9772	H4P2	.8273	S1	.0762	S14	.0340
R2P3	.9457	H4P3	.8312	S2	.0728	S15	.1860
R2P4	.8853	H4P4	.8369	S11	.0728	S16	.4150
R2P5	.8446	H4P5	.8456	S12	.0728	S17	.8470
		H4P6	.8501	S13	.0728	S18	1.1740
		H4P7	.8543	S3	.1408	S19	1.4590
		H4P8	.8633	S4	.4068	S20	1.5400
		H4P9	.8720	S5	.6428	S21	1.8270
		H4P10	.8747	S6	.8848	S22	2.7840
		H4P11	.8853	S7	1.0178	S23	3.2980
		H4P12	.8938	S8	1.1448	S26	5.2890
				S9	1.5128		.7515
				S10	1.8488		
				S27	5.3000		
				S28	.0428		

SPIKE H6		COWL H5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7500	S23	.7500
H6P1	.8583	H5P1	.7975
H6P2	.8792	H5P2	.8013
H6P3	.8871	H5P3	.8075
H6P4	.8959	H5P4	.8111
H6P5	.9017	H5P5	.8172
H6P8	.9173	H5P6	.8211
H6P9	.9206	H5P7	.8266
H6P10	.9194	H5P8	.8444
H6P11	.9145	H5P9	.8651
		H5P10	.8826
		H5P11	.9008

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	163	FLIGHT DATE 09/20/79	SPIKE POS. DX/HC	.8582	AMBIENT TEMP	289.4 DEG K	MAX=MIN DIST	.1002
		FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9183 ATMUS	K=CIRCUMF.	.2111
START	2:28:25.000	INTERVAL 1.000	ENG. FALC RECOV	.8674	ENGINE M/M	.7326	K=RADIAL	.1352
STOP	2:28:55.000	ENG CUM RPM 6673.	ENG. FALC MACH NO	.4702	COWL M/M	.6387		
			COWL LIP RECOV	.8357	ADDITIVE M/M	.0940	K=DELTA	-.0052
			MACH AT COWL LIP	.4458			K=A	.1404

SPIKE H1		COWL H3		STAT XCM/RC= 5.4830	
STAT XCM/RC= .0728	STAT XCM/RC= .0700	36 DEG RAKE	198 DEG RAKE		
S2	.8268	S14	.5861	A36	.8400
R1P1	.9978	R3P1	.5811	H36	.8881
R1P2	.9989	R3P2	.5804	C36	.8752
R1P3	.9991	R3P3	.5803	D36	.8544
R1P4	.9992	R3P4	.5748	E36	.8446
R1P5	.9993	R3P5	.5745	90 DEG RAKE	252 DEG RAKE
R1P6	.9994	R3P6	.5848	A90	.8407
R1P7	.9994	R3P7	.9988	H90	.8447
R1P8	.9988	R3P8	.9433	C90	.8782
R1P9	.9972	R3P9	.9941	D90	.8563
		R3P10	1.0006	E90	.8415
		R3P11	.9991	144 DEG RAKE	324 DEG RAKE
		R3P12	.9870	A144	.9026
		R3P13	1.0007	H144	.8431
		R3P14	.9941	D144	.8540
		R3P15	1.0003	C144	.8344
		R3P16	.9943	E144	.8157
				A324	.8891
				H324	.8918
				C324	.8677
				D324	.8560
				E324	.8453

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCM/RC= 1.4678	STAT XCM/RC= 1.5360			SPIKE		COWL	
S9	.7466	S20	.6642	XCM/RC	P/PU	TAP	XCM/RC
R2P1	.9025	R4P1	.8032				P/PU
R2P2	.9780	R4P2	.8166	TAP		S14	.0340
R2P3	.9433	R4P3	.8242	S1	.0762	S15	.1860
R2P4	.8800	R4P4	.8309	S2	.0728	S16	.4150
R2P5	.8360	R4P5	.8381	S11	.0728	S17	.8470
		R4P6	.8450	S12	.0728	S18	1.1740
		R4P7	.8488	S13	.0728	S19	1.4590
		R4P8	.8569	S3	.1408	S20	1.5400
		R4P9	.8605	S4	.4068	S21	1.8270
		R4P10	.8683	S5	.6428	S22	2.7840
		R4P11	.8781	S6	.8848	S23	3.2980
		R4P12	.8865	S7	1.0178	S26	5.2890
				S8	1.1448		
				S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE H6		COWL H5	
STAT XCM/RC= 3.5040	STAT XCM/RC= 3.3270		
S23	.7356	S23	.7356
R6P1	.8506	R5P1	.7877
R6P2	.8718	R5P2	.7406
R6P3	.8814	R5P3	.7431
R6P4	.8886	R5P4	.8011
R6P5	.8978	R5P5	.8086
R6P6	.9141	R5P6	.8102
R6P7	.9174	R5P7	.8141
R6P10	.9169	R5P8	.8372
R6P11	.9115	R5P9	.8572
		R5P10	.8747
		R5P11	.9008

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	166	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.4128	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0879
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMOS	K=CIRCUMF.	.6279
START	2:38:49.003	INTERVAL	1.000	ENG. FALC RECOV	.9452	ENGINE M/M*	.7084	K=RADIAL	.2080
STOP	2:40:39.999	ENG CUM MPH	5075.	ENG. FALC MACH NO	.3438	COWL M/M*	.3981	K=DELTA	.1677
				COWL LIP RECOV	.9539	ADDITIVE M/M*	.3104	K=A	.3751
				MACH AT COWL LIP	.1929				

SPIKE R1 STAT XCW/RC= .5182

S2	.9325	S14	.9265	A36	.9466	A198	.9690
R1P1	.9998	R3P1	.9260	H36	.9353	H198	.9728
R1P2	1.0004	R3P2	.9257	C36	.9229	C198	.9628
R1P3	1.0006	R3P3	.9259	D36	.9698	D198	.9351
R1P4	1.0007	R3P4	.9259	E36	.9020	E198	.9173
R1P5	1.0007	R3P5	.9260	90 DEG HAKE		252 DEG HAKE	
R1P6	1.0008	R3P6	.9259	A90	.9816	A252	.9616
R1P7	1.0007	R3P7	1.0003	H90	.9769	H252	.9509
R1P8	1.0005	R3P8	.9262	C90	.9582	C252	.9428
R1P9	.9913	R3P9	.9314	D90	.9478	D252	.9353
		R3P10	.9447	E90	.9416	E252	.9257
		R3P11	.9847	144 DEG HAKE		324 DEG HAKE	
		R3P12	.9932	A144	.9850	A324	.9492
		R3P13	1.0012	H144	.9761	H324	.9490
		R3P14	1.0006	D144	.9441	D324	.9390
		R3P15	1.0011	C144	.9333	C324	.9330
		R3P16	1.0010	E144	.9226	E324	.9283

SPIKE R2 STAT XCW/RC= 1.9132

S9	.9371	S20	.8942	TAP		SPIKE		COWL	
R2P1	.9827	R4P1	.9759	S1	.3692	P/P0		XCW/RC	P/P0
R2P2	.9945	R4P2	.9818	S2	.5182	S14	.0340		.9265
R2P3	.9896	R4P3	.9831	S11	.5182	S15	.1860		.9236
R2P4	.9833	R4P4	.9835	S12	.5182	S16	.4150		.9323
R2P5	.9695	R4P5	.9837	S13	.5182	S17	.8470		.9521
		R4P6	.9851	S3	.5862	S18	1.1740		.9486
		R4P7	.9866	S4	.8522	S19	1.4590		.9419
		R4P8	.9878	S5	1.0882	S20	1.5400		.8942
		R4P9	.9885	S6	1.3352	S21	1.8270		.9354
		R4P10	.9895	S7	1.4632	S22	2.7840		.8370
		R4P11	.9903	S8	1.5952	S23	3.2980		.8603
		R4P12	.9920	S9	1.9582	S26	5.2890		.8668
				S10	2.2942				
				S27	5.3000				
				S28	1.0082				

SPIKE R6 STAT XCW/RC= 3.5040

S23	.8603	S23	.8603
R6P1	.9204	R5P1	.9063
R6P2	.9346	R5P2	.9109
R6P3	.9416	R5P3	.9133
R6P4	.9473	R5P4	.9170
R6P5	.9525	R5P5	.9231
R6P8	.9752	R5P6	.9285
R6P9	.9686	R5P7	.9509
R6P10	.9567	R5P8	.9804
R6P11	.9326	R5P9	.9822
		R5P10	.9791
		R5P11	.9801

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	167	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.4132	AMBIENT TEMP	289.4 DEG K	MAX-MIN DIST	.1149
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMUS	K-CIRCUMF.	.5394
START	2:40:39.999	INTERVAL	1.000	ENG. FUEL REC'D	.9291	ENGINE M/M	.7652	K-RADIAL	.2360
STOP	2:42:35.003	ENG LOW RPM	5620.	ENG. FUEL MACH NO	.4014	COWL M/M	.4854		
				COWL LIP REC'D	.9416	ADDITIVE M/M	.3197	K-DELTA	.1640
				MACH AT COWL LIP	.2202			K-A	.4000

SPIKE R1		COWL N3		STAT XCN/MC= 5.4830	
STAT XCN/MC=	.5178	STAT XCN/MC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9144	S14	.9062	A36	.9324 A198 .9622
R1P1	.9992	R3P1	.9058	B36	.9205 B198 .9634
R1P2	.9997	R3P2	.9059	C36	.8966 C198 .9640
R1P3	1.0001	R3P3	.9058	D36	.8860 D198 .9164
R1P4	.9999	R3P4	.9057	E36	.8745 E198 .8912
R1P5	1.0001	R3P5	.9058	90 DEG RAKE	252 DEG RAKE
R1P6	1.0001	R3P6	.9060	A90	.9781 A252 .9513
R1P7	1.0001	R3P7	.9949	B90	.9646 B252 .9405
R1P8	.9997	R3P8	.9063	C90	.9458 C252 .9255
R1P9	.9904	R3P9	.9143	D90	.9241 D252 .9151
		R3P10	.9341	E90	.9234 E252 .9049
		R3P11	.9840	144 DEG RAKE	324 DEG RAKE
		R3P12	.9915	A144	.9613 A324 .9353
		R3P13	1.0010	B144	.9677 B324 .9358
		R3P14	.9998	D144	.9242 C324 .9259
		R3P15	1.0010	C144	.9104 D324 .9144
		R3P16	1.0009	E144	.8965 E324 .9058

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCN/MC=	1.9128	STAT XCN/MC=	1.5380	SPIKE		COWL	
S9	.9189	S20	.8640	XCN/MC	P/PU	XCN/MC	P/PU
R2P1	.9785	R4P1	.9692	S1	.3688 .9130	S14	.0340 .9062
R2P2	.9922	R4P2	.9762	S2	.5178 .9144	S15	.1860 .9037
R2P3	.9858	R4P3	.9779	S11	.5178 .9128	S16	.4150 .9152
R2P4	.9775	R4P4	.9746	S12	.5178 .9131	S17	.8470 .9394
R2P5	.9605	R4P5	.9807	S13	.5178 .9144	S18	1.1740 .9346
		R4P6	.9805	S3	.5856 .9203	S19	1.4590 .9256
		R4P7	.9816	S4	.8518 .9300	S20	1.5400 .8640
		R4P8	.9829	S5	1.0678 .9325	S21	1.8270 .9164
		R4P9	.9840	S6	1.3346 .9286	S22	2.7840 .7858
		R4P10	.9851	S7	1.4628 .9237	S23	3.2980 .8183
		R4P11	.9871	S8	1.5448 .9162	S26	5.2890 .8257
		R4P12	.9884	S9	1.9578 .9189		
				S10	2.2438 .9612		
				S27	5.3000 .8333		
				S28	1.0878 .9990		

SPIKE R6		COWL R5	
STAT XCN/MC=	3.5040	STAT XCN/MC=	3.3270
S23	.8183	S23	.8183
R6P1	.8925	R5P1	.8755
R6P2	.9112	R5P2	.8825
R6P3	.9211	R5P3	.8885
R6P4	.9290	R5P4	.8912
R6P5	.9349	R5P5	.8968
R6P6	.9696	R5P6	.9008
R6P7	.9640	R5P7	.9366
R6P10	.9472	R5P8	.9724
R6P11	.9133	R5P9	.9774
		R5P10	.9748
		R5P11	.9744

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	168	FLIGHT DATE	09/20/79	SPIKE POS. DX/RC	.4128	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.1373
		FLIGHT NO.	0	BYPASS POS. OPEN		AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.4378
START	2142135.003	INTERVAL	1.000	ENG. FACE RECOV	.9157	ENGINE M/M*	.8459	K-RADIAL	.2172
STOP	2144125.003	ENG COM RPM	6088.	ENG. FACE MACH NO	.4469	COWL M/M*	.4771		
				COWL LIP RECOV	.9520	ADDITIVE M/M*	.3688	K-DELTA	.1468
				MACH AT COWL LIP	.2395			K-A	.3640

SPIKE M1		COWL M3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.5182	STAT XCW/RC=	.0700	30 DEG RAKE	198 DEG RAKE
S2	.9001	S14	.8908	A36	.9195 A198 .9505
R1P1	.9988	R3P1	.8904	M36	.9063 B198 .9579
R1P2	.9994	R3P2	.8907	C36	.8815 C198 .9405
R1P3	.9998	R3P3	.8905	D36	.8638 D198 .8994
R1P4	.9996	R3P4	.8906	E36	.8524 E198 .8744
R1P5	.9998	R3P5	.8905	90 DEG RAKE	252 DEG RAKE
R1P6	1.0001	R3P6	.8904	A90	.9752 A252 .9377
R1P7	1.0000	R3P7	.9947	H90	.9635 H252 .9272
R1P8	.9995	R3P8	.8910	C90	.9332 C252 .9085
R1P9	.9896	R3P9	.9007	D90	.9150 D252 .8984
		R3P10	.9306	E90	.9058 E252 .8847
		R3P11	.9821	144 DEG RAKE	324 DEG RAKE
		R3P12	.9847	A144	.9781 A324 .9250
		R3P13	1.0008	H144	.9627 H324 .9294
		R3P14	.9946	D144	.9110 C324 .9122
		R3P15	1.0005	C144	.8948 D324 .9025
		R3P16	1.0004	E144	.8786 F324 .8858

SPIKE M2		COWL M4		STATIC PRESSURES			
STAT XCW/RC=	1.9132	STAT XCW/RC=	1.5340	SPIKE			COWL
S9	.9046	S20	.8403	XCW/RC	P/PO	IAP	XCW/RC
R2P1	.9746	R4P1	.9658				P/PO
R2P2	.9914	R4P2	.9724	S1	.3642	.8945	S14
R2P3	.9826	R4P3	.9749	S2	.5182	.9001	S15
R2P4	.9750	R4P4	.9760	S11	.5182	.8982	S16
R2P5	.9533	R4P5	.9765	S12	.5182	.8944	S17
		R4P6	.9781	S13	.5182	.9007	S18
		R4P7	.9745	S3	.5862	.9075	S19
		R4P8	.9807	S4	.8522	.9191	S20
		R4P9	.9821	S5	1.0882	.9209	S21
		R4P10	.9838	S6	1.3352	.9163	S22
		R4P11	.9853	S7	1.4632	.9107	S23
		R4P12	.9874	S8	1.5452	.9020	S26
				S9	1.4582	.9046	
				S10	2.2442	.9529	
				S27	5.3000	.8006	
				S28	1.0882	.9991	

SPIKE M6		COWL M5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7823	S23	.7823
R6P1	.8710	R5P1	.8509
R6P2	.8931	R5P2	.8579
R6P3	.9034	R5P3	.8661
R6P4	.9160	R5P4	.8644
R6P5	.9249	R5P5	.8704
R6P8	.9654	R5P6	.8859
R6P9	.9581	R5P7	.9252
R6P10	.9429	R5P8	.9646
R6P11	.9012	R5P9	.9750
		R5P10	.9710
		R5P11	.9711

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	169	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.4128	AMHIENT TEMP	290.0 DEG K	MAX-MIN DIST	.1493
		FLIGHT NU. 0	BYPASS POS.	OPEN	AMHIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.3852
START	2144125.003	INTERVAL 1.000	ENG. FALC RECUV	.9108	ENGINE M/M*	.8863	K-RADIAL	.2157
STOP	2145150.003	ENG CON RPM 6269.	ENG. FALC MACH NO	.4704	COWL M/M*	.4941		
			COWL LIP RECUV	.9286	ADDITIVE M/M*	.3922	K-DELTA	.1267
			MACH AT COWL LIP	.2497			K-A	.3425

SPIKE R1		COWL R3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.5182	STAT XCM/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.8947	S14	.8837	A36	.9161 A198
R1P1	.9985	R3P1	.8832	H36	.9037 H198
R1P2	.9993	R3P2	.8833	C36	.8773 C198
R1P3	.9995	R3P3	.8832	U36	.8546 U198
R1P4	.9995	R3P4	.8834	E36	.8406 E198
R1P5	.9995	R3P5	.8832	90 DEG RAKE	252 DEG RAKE
R1P6	.9995	R3P6	.8830	A90	.9728 A252
R1P7	.9996	R3P7	.9993	H90	.9621 H252
R1P8	.9995	R3P8	.8839	C90	.9294 C252
R1P9	.9918	R3P9	.8971	U90	.9097 U252
		R3P10	.9361	E90	.9008 E252
		R3P11	.9891	144 DEG RAKE	324 DEG RAKE
		R3P12	.9893	A144	.9706 A324
		R3P13	1.0007	H144	.9550 H324
		R3P14	.9992	U144	.9026 U324
		R3P15	1.0005	C144	.8885 C324
		R3P16	1.0005	E144	.8744 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.9132	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.8977	S20	.8287	XCM/RC	P/PO	XCM/RC	P/PO
R2P1	.9723	R4P1	.9637	S1	.3692 .8931	S14	.0340 .8837
R2P2	.9908	R4P2	.9709	S2	.5182 .8947	S15	.1860 .8805
R2P3	.9844	R4P3	.9732	S11	.5182 .8924	S16	.4150 .8946
R2P4	.9745	R4P4	.9753	S12	.5182 .8929	S17	.8470 .9247
R2P5	.9531	R4P5	.9768	S13	.5182 .8939	S18	1.1740 .9185
		R4P6	.9784	S3	.5862 .9022	S19	1.4590 .9068
		R4P7	.9793	S4	.8522 .9142	S20	1.5400 .8287
		R4P8	.9806	S5	1.0882 .9158	S21	1.8270 .8954
		R4P9	.9817	S6	1.3352 .9108	S22	2.7840 .7216
		R4P10	.9832	S7	1.4632 .9045	S23	3.2980 .7649
		R4P11	.9855	S8	1.5452 .8951	S26	5.2890 .7753
		R4P12	.9875	S9	1.5582 .8977		
				S10	2.2942 .9486		
				S27	5.3000 .7855		
				S28	1.0882 .9989		

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7649	S23	.7649
R6P1	.8581	R5P1	.8386
R6P2	.8812	R5P2	.8478
R6P3	.8955	R5P3	.8548
R6P4	.9080	R5P4	.8591
R6P5	.9178	R5P5	.8649
R6P6	.9644	R5P6	.8784
R6P7	.9590	R5P7	.9255
R6P10	.9804	R5P8	.9687
R6P11	.8974	R5P9	.9728
		R5P10	.9714
		R5P11	.9696

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	170	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.4128	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.1612
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.3592
START	2:45:50.003	INTERVAL 1.000	ENG. FACE RECOV	.9047	ENGINE M/M*	.9166	K-RADIAL	.2144
STOP	2:48:5.000	ENG CUR RPM 6457.	ENG. FACE MACH NO	.4896	COWL M/M*	.5135	K-DELTA	.1239
			COWL LIP RECOV	.9263	ADDITIVE M/M*	.4031	K-A	.3383
			MACH AT COWL LIP	.2610				

SPIKE R1		COWL R3		STAT XLW/MC= 5.4830	
STAT	XCW/MC= .5182	STAT	XCW/MC= .0700	36 DEG RAKE	198 DEG RAKE
S2	.8898	S14	.8772	A36	.9134
R1P1	.9980	R3P1	.8769	B36	.8979
R1P2	.9988	R3P2	.8765	C36	.8866
R1P3	.9993	R3P3	.8765	D36	.8842
R1P4	.9991	R3P4	.8766	E36	.8888
R1P5	.9992	R3P5	.8764	90 DEG RAKE	252 DEG RAKE
R1P6	.9993	R3P6	.8763	A90	.9734
R1P7	.9993	R3P7	.9993	H90	.9655
R1P8	.9992	R3P8	.8788	C90	.9257
R1P9	.9907	R3P9	.8986	D90	.9036
		R3P10	.9488	E90	.8498
		R3P11	.9948	144 DEG RAKE	324 DEG RAKE
		R3P12	.9896	A144	.9747
		R3P13	1.0000	H144	.9526
		R3P14	.9994	D144	.8470
		R3P15	1.0001	C144	.8776
		R3P16	1.0001	E144	.8582
				A324	.9143
				B324	.9213
				C324	.9008
				D324	.8858
				E324	.8739

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCW/MC= 1.9132	STAT	XCW/MC= 1.5380	SPIKE	P/PU	TAP	COWL
S9	.8921	S20	.8184	XCW/MC	P/PU	TAP	XCW/MC
R2P1	.9712	R4P1	.9626	S1	.3692	S14	.0340
R2P2	.9904	R4P2	.9700	S2	.5182	S15	.1860
R2P3	.9822	R4P3	.9718	S11	.5182	S16	.4150
R2P4	.9733	R4P4	.9743	S12	.5182	S17	.8470
R2P5	.9499	R4P5	.9749	S13	.5182	S18	1.1740
		R4P6	.9750	S3	.5862	S19	1.4590
		R4P7	.9770	S4	.8522	S20	1.5400
		R4P8	.9740	S5	1.0882	S21	1.8270
		R4P9	.9805	S6	1.3352	S22	2.7840
		R4P10	.9828	S7	1.4632	S23	3.2980
		R4P11	.9843	S8	1.5452	S26	5.2890
		R4P12	.9861	S9	1.4582		.7602
				S10	2.2942		.9451
				S27	5.3000		.7706
				S28	1.0882		.9984

SPIKE R6		COWL R5	
STAT	XCW/MC= 3.5040	STAT	XLW/MC= 3.3270
S23	.7492	S23	.7492
R6P1	.8491	R5P1	.8301
R6P2	.8742	R5P2	.8342
R6P3	.8903	R5P3	.8440
R6P4	.9028	R5P4	.8487
R6P5	.9140	R5P5	.8565
R6P8	.9640	R5P6	.8731
R6P9	.9563	R5P7	.9171
R6P10	.9364	R5P8	.9643
R6P11	.8918	R5P9	.9644
		R5P10	.9676
		R5P11	.9686

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	173	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0862	AMBIENT TEMP	290.0 DEG K	MAX-MIN DIST	.0618
		FLIGHT NO.	0		AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.7839
START	2151139.999	INTERVAL	1.000	ENG. FALC REC'D	.9483	ENGINE M/M*	K-RADIAL	.1789
STOP	2153135.000	ENG CUM MPH	4251.	ENG. FALC MACH NO	.2629	COWL M/M*	K-DELTA	.1868
				COWL LIP REC'D	.9851	ADDITIVE M/M*	K-A	.3657
				MACH AT COWL LIP	.1022			

SPIKE R1		COWL R3		STAT ALW/RC= 5.4830	
STAT	XCW/RC= .844H	STAT	XCW/RC= .0700	36 DEG	RAKE
S2	.9794	S14	.9764	A36	.9451
R1P1	.9987	R3P1	.9764	H36	.9382
R1P2	1.0018	R3P2	.9766	C36	.9278
R1P3	1.0015	R3P3	.9763	D36	.9226
R1P4	1.0015	R3P4	.9762	E36	.9190
R1P5	1.0018	R3P5	.9763	90 DEG	RAKE
R1P6	1.0015	R3P6	.9764	A90	.9176
R1P7	1.0015	R3P7	1.0015	H90	.9098
R1P8	1.0016	R3P8	.9764	C90	.9046
R1P9	.9996	R3P9	.9766	D90	.9007
		R3P10	.9777	E90	.9532
		R3P11	.9847	144 DEG	RAKE
		R3P12	.9918	A144	.9714
		R3P13	1.0020	H144	.9544
		R3P14	1.0016	D144	.9440
		R3P15	1.0014	C144	.9422
		R3P16	1.0019	E144	.9354

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT	XCW/RC= 2.2398	STAT	XCW/RC= 1.5380	SPIKE	ALW/RC	P/PU	TAP
S9	.9514	S20	.9077	S1	.8458	.9788	S14
R2P1	.9936	R4P1	.9940	S2	.8448	.9744	S15
R2P2	.9967	R4P2	.9973	S11	.844H	.9779	S16
R2P3	.9906	R4P3	.9974	S12	.8448	.9772	S17
R2P4	.9738	R4P4	.9976	S13	.8448	.9776	S18
R2P5	.9363	R4P5	.99H4	S3	.9128	.9787	S19
		R4P6	.99H7	S4	1.178H	.9679	S20
		R4P7	.9942	S5	1.414H	.9558	S21
		R4P8	1.0000	S6	1.6618	.9492	S22
		R4P9	1.0001	S7	1.7848	.9489	S23
		R4P10	1.0005	S8	1.9218	.9486	S26
		R4P11	1.0010	S9	2.2848	.9514	
		R4P12	1.0014	S10	2.6208	.9523	

SPIKE R6		COWL R5	
STAT	XCW/RC= 3.5040	STAT	ALW/RC= 3.3270
S23	.8940	S23	.8940
R6P1	.9358	R5P1	.9271
R6P2	.9429	R5P2	.9300
R6P3	.945H	R5P3	.9343
R6P4	.9493	R5P4	.9366
R6P5	.9539	R5P5	.9426
R6P8	.9490	R5P6	.9444
R6P9	.9383	R5P7	.9487
R6P10	.9287	R5P8	.9849
R6P11	.9166	R5P9	.9863
		R5P10	.9825
		R5P11	.9613

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	174	FLIGHT DATE 09/20/79	SPIKE POS. DX/KL	.0862	AMBIENT TEMP	290.6 DEG K	MAX=MIN DIST	.1108
		FLIGHT NO.	0		AMBIENT PRESS	.9186 ATMUS	K=CIRCUMF.	.7023
START	2153:35.000	INTERVAL	1.000	ENG. FACE RECUV	.9134	ENGINE M/M*	K=RADIAL	.2569
STOP	2155: 5.002	ENG LOU RPM	5039.	ENG. FACE MACH NO	.3458	COWL M/M*		
				COWL LIP RECUV	.9745	ADDITIVE M/M*	K=DELTA	.2359
				MACH AT COWL LIP	.1283		K=A	.4929

SPIKE R1		COWL R3		STAT XCN/KC= 5.4830	
STAT XCN/KC=	.8448	STAT XCN/KC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9657	S14	.9610	A36	.9089 A198 .9509
R1P1	.9970	R3P1	.9610	H36	.8959 H198 .9454
R1P2	1.0000	R3P2	.9610	C36	.8836 C198 .9325
R1P3	1.0006	R3P3	.9612	D36	.8734 D198 .8952
R1P4	1.0006	R3P4	.9613	E36	.8658 E198 .8712
R1P5	1.0006	R3P5	.9612	90 DEG HAKE	252 DEG HAKE
R1P6	1.0007	R3P6	.9612	A90	.9670 A252 .9498
R1P7	1.0007	R3P7	.9999	H90	.9477 H252 .9161
R1P8	.9998	R3P8	.9613	C90	.9365 C252 .9067
R1P9	.9977	R3P9	.9605	D90	.9306 D252 .9057
		R3P10	.9615	E90	.9181 E252 .8944
		R3P11	.9641	144 DEG HAKE	324 DEG HAKE
		R3P12	.9610	A144	.9603 A324 .9129
		R3P13	1.0008	H144	.9350 H324 .9024
		R3P14	1.0000	D144	.9115 D324 .9003
		R3P15	1.0010	C144	.8988 C324 .9018
		R3P16	1.0010	E144	.8862 E324 .8982

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCN/KC=	2.2398	STAT XCN/KC=	1.5380	SPIKE		COWL	
S9	.9203	S20	.8551	XCN/KC	P/PO	XCN/KC	P/PO
R2P1	.9879	R4P1	.9887	TAP			
R2P2	.9926	R4P2	.9931	S1	.8458 .9654	S14	.0340 .9610
R2P3	.9826	R4P3	.9936	S2	.8448 .9657	S15	.1860 .9589
R2P4	.9545	R4P4	.9938	S11	.8448 .9654	S16	.4150 .9606
R2P5	.8911	R4P5	.9944	S12	.8448 .9647	S17	.8470 .9721
		R4P6	.9947	S13	.8448 .9651	S18	1.1740 .9566
		R4P7	.9954	S3	.9120 .9652	S19	1.4590 .9308
		R4P8	.9966	S4	1.1788 .9446	S20	1.5400 .8551
		R4P9	.9975	S5	1.4148 .9242	S21	1.8270 .9200
		R4P10	.9985	S6	1.8018 .9171	S22	2.7840 .7776
		R4P11	.9995	S7	1.7848 .9173	S23	3.2980 .8229
		R4P12	1.0002	S8	1.9218 .9171	S26	5.2890 .8356

SPIKE R6		COWL R5		S27	
STAT XCN/KC=	3.5040	STAT XCN/KC=	3.3270	S28	1.4146 .9994
S23	.8229	S23	.8229		
R6P1	.8934	R5P1	.8748		
R6P2	.9040	R5P2	.8778		
R6P3	.9099	R5P3	.8839		
R6P4	.9188	R5P4	.8868		
R6P5	.9239	R5P5	.8922		
R6P8	.9170	R5P6	.9038		
R6P9	.9023	R5P7	.9373		
R6P10	.8887	R5P8	.9771		
R6P11	.8614	R5P9	.9801		
		R5P10	.9724		
		R5P11	.9623		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	175	FLIGHT DATE 09/20/79	SPIKE POS. UX/RC	.0862	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.1557
		FLIGHT NO. 0	BYPASS POS. UPEN		AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.6322
START	2:55:5.002	INTERVAL 1.000	ENG. FALLE REC'D	.8853	ENGINE M/M*	1.0456	K-RADIAL	.2044
STOP	2:56:50.001	ENG CUM RPM 5628.	ENG. FALLE MACH NO	.4072	COWL M/M*	.4322	K-DELTA	.2564
			COWL LIP REC'D	.9673	ADDITIVE M/M*	.6134	K-A	.5508
			MACH AT COWL LIP	.1425				

SPIKE R1		COWL K3		STAT XCW/RC= 5.4830	
STAT XCW/RC= .H448	STAT XCW/RC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9568	S14 .9507	A36 .8805	A198 .9377		
R1P1 .9959	R3P1 .9510	H36 .8655	H198 .9279		
R1P2 .9994	K3P2 .9510	E36 .8449	C198 .9076		
R1P3 1.0002	R3P3 .9505	U36 .8341	U198 .8598		
R1P4 1.0001	R3P4 .9504	E36 .8237	E198 .8335		
R1P5 1.0000	K3P5 .9506	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0000	K3P6 .9507	A90 .9615	A252 .9261		
R1P7 1.0002	K3P7 .9496	H90 .9330	H252 .8821		
R1P8 .9999	R3P8 .9501	C90 .9139	C252 .8715		
R1P9 .9962	K3P9 .9501	U90 .9031	U252 .8697		
	K3P10 .9520	E90 .8433	E252 .8577		
	K3P11 .9625	144 DEG HAKE	324 DEG HAKE		
	K3P12 .9765	A144 .9523	A324 .8877		
	K3P13 1.0002	H144 .9109	H324 .8737		
	K3P14 .9991	U144 .8816	U324 .8705		
	K3P15 1.0007	C144 .8657	C324 .8703		
	K3P16 1.0007	E144 .8504	E324 .8686		

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/RC= 2.2398	STAT XCW/RC= 1.5380			SPIKE		COWL	
S9 .8967	S20 .8138	TAP	XCW/RL	P/PO	IAP	XCW/RL	P/PO
R2P1 .9835	K4P1 .9841	S1 .8458	.9568	S14 .0340	.9507		
R2P2 .9903	R4P2 .9907	S2 .8448	.9568	S15 .1860	.9482		
R2P3 .9757	K4P3 .9907	S11 .8448	.9568	S16 .4150	.9510		
R2P4 .9387	K4P4 .9915	S12 .8448	.9557	S17 .8470	.9654		
R2P5 .8547	K4P5 .9927	S13 .8448	.9558	S18 1.1740	.9453		
	K4P6 .9932	S3 .9128	.9570	S19 1.4590	.9119		
	K4P7 .9945	S4 1.1788	.9368	S20 1.5400	.8138		
	K4P8 .9954	S5 1.4148	.9099	S21 1.8270	.8975		
	K4P9 .9962	S6 1.6618	.8929	S22 2.7840	.7041		
	K4P10 .9981	S7 1.7898	.8933	S23 3.2980	.7678		
	K4P11 .9983	S8 1.9218	.8935	S26 5.2890	.7832		
	K4P12 .9992	S9 2.2808	.8967				
		S10 2.6208	.8864				
		S27 3.3000	.7900				
		S28 1.4148	.9990				

SPIKE R6		COWL K5	
STAT XCW/RC= 3.5040	STAT XCW/RC= 3.3270		
S23 .7678	S23 .7678		
R6P1 .8594	K5P1 .8363		
R6P2 .8728	K5P2 .8401		
R6P3 .8819	K5P3 .8474		
R6P4 .8919	K5P4 .8536		
R6P5 .8990	K5P5 .8628		
R6P6 .8971	K5P6 .8737		
R6P9 .8749	K5P7 .9177		
R6P10 .8553	K5P8 .9686		
R6P11 .8233	K5P9 .9726		
	K5P10 .9615		
	K5P11 .9500		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	176	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0862	AMBIENT TEMP	290.6 DEG K	MAX-MIN DIST	.1863
		FLIGHT NO.	0		AMBIENT PRESS	.9186 ATMOS	K=CIRCUMF.	.4992
START	2:56:50.001	INTERVAL	1.000	BYPASS POS.	OPEN	ENGINE M/M*	K=RADIAL	.2844
STOP	2:57:20.001	ENG LOW RPM	6091.	ENG. FACE RECOV	.8626	1.1426		
				ENG. FACE MACH NO	.4545	.4851		
				COWL LIP RECOV	.9646	.6575	K=DELTA	.2077
				MACH AT COWL LIP	.1610		K=A	.4921

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.8448	STAT XCW/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9509	S14	.9437	A36	.8592 A198 .9230
R1P1	.9951	K3P1	.9446	H36	.8416 H198 .8998
R1P2	.9992	K3P2	.9443	C36	.8165 C198 .8836
R1P3	.9998	K3P3	.9443	D36	.8006 D198 .8229
R1P4	.9997	K3P4	.9445	E36	.7911 E198 .7949
R1P5	.9998	K3P5	.9443	90 DEG HAKE	252 DEG HAKE
R1P6	.9998	K3P6	.9444	A90	.9517 A252 .9229
R1P7	.9997	K3P7	.9443	H90	.9103 H252 .8764
R1P8	.9994	K3P8	.9435	C90	.8698 C252 .8535
R1P9	.9967	K3P9	.9441	D90	.8793 D252 .8510
		K3P10	.9465	E90	.8645 E252 .8400
		K3P11	.9611	144 DEG HAKE	324 DEG HAKE
		K3P12	.9778	A144	.9381 A324 .8639
		K3P13	1.0002	H144	.8916 H324 .8536
		K3P14	.9942	D144	.8546 D324 .8452
		K3P15	1.0005	C144	.8347 C324 .8455
		K3P16	1.0001	E144	.8198 E324 .8419

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	2.2398	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.8799	S20	.7847	XCW/RC	P/PO	IAP	XCW/RC P/PO
R2P1	.9829	K4P1	.9826	S1	.6956 .9508	S14	.0340 .9437
R2P2	.9884	K4P2	.9844	S2	.8448 .9509	S15	.1860 .9413
R2P3	.9725	K4P3	.9846	S11	.8448 .9505	S16	.4150 .9449
R2P4	.9302	K4P4	.9912	S12	.8448 .9442	S17	.8470 .9613
R2P5	.8344	K4P5	.9923	S13	.8448 .9512	S18	1.1740 .9385
		K4P6	.9925	S3	.9128 .9513	S19	1.4590 .8990
		K4P7	.9940	S4	1.1788 .9279	S20	1.5400 .7847
		K4P8	.9947	S5	1.4148 .8969	S21	1.8270 .8818
		K4P9	.9960	S6	1.6618 .8769	S22	2.7840 .6390
		K4P10	.9972	S7	1.7848 .8781	S23	3.2980 .7244
		K4P11	.9982	S8	1.9218 .8778	S26	5.2890 .7407
		K4P12	.9990	S9	2.2848 .8799		
				S10	2.6208 .8615		
				S27	5.3000 .7494		
				S28	1.4148 .9969		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7244	S23	.7244
R6P1	.8330	K5P1	.8030
R6P2	.8492	K5P2	.8108
R6P3	.8574	K5P3	.8185
R6P4	.8704	K5P4	.8262
R6P5	.8809	K5P5	.8309
R6P8	.8827	K5P6	.8527
R6P9	.8575	K5P7	.9004
R6P10	.8799	K5P8	.9631
R6P11	.7906	K5P9	.9672
		K5P10	.9604
		K5P11	.9441

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	177	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.0002	AMBIENT TEMP	291.1 DEG K	MAX-MIN DIST	.1999
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.4577
START	2:58:25.000	INTERVAL	1.000	ENG. FUEL RECOV	.8532	ENGINE M/M	1.1867	K-RADIAL	.2863
STOP	2:59:40.002	ENG LOX RPM	6265.	ENG. FUEL MACH NO	.4755	COWL M/M	.4987	K-DELTA	.1969
				COWL LIP RECOV	.9631	ADDITIVE M/M	.6879	K-A	.4832
				MACH AT COWL LIP	.1659				

SPIKE H1		COWL H3		STAT XCW/MC= 5.4830	
STAT XCW/MC= .8448	STAT XCW/MC= .0700	36 DEG RAKE	198 DEG RAKE		
S2 .9486	S14 .9409	A36 .8474	A198 .9220		
R1P1 .9954	R3P1 .9416	H36 .8502	H198 .8948		
R1P2 .9990	R3P2 .9415	C36 .8064	C198 .8744		
R1P3 .9996	R3P3 .9417	D36 .7881	D198 .8044		
R1P4 .9995	R3P4 .9414	E36 .7779	E198 .7797		
R1P5 .9997	R3P5 .9415	90 DEG RAKE	252 DEG RAKE		
R1P6 .9996	R3P6 .9415	A90 .9484	A252 .9212		
R1P7 .9995	R3P7 .9989	B90 .9116	B252 .8707		
R1P8 .9989	R3P8 .9410	C90 .8809	C252 .8373		
R1P9 .9956	R3P9 .9413	D90 .8717	D252 .8358		
	R3P10 .9452	E90 .8587	E252 .8261		
	R3P11 .9616	144 DEG RAKE	324 DEG RAKE		
	R3P12 .9795	A144 .9246	A324 .8608		
	R3P13 1.0000	H144 .8842	H324 .8457		
	R3P14 .9989	D144 .8481	D324 .8348		
	R3P15 1.0000	C144 .8288	C324 .8333		
	R3P16 1.0004	E144 .8094	E324 .8295		

SPIKE R2		COWL H4		STATIC PRESSURES			
STAT XCW/MC= 2.2398	STAT XCW/MC= 1.5380			SPIKE	COWL		
S9 .8730	S20 .7734	IAP	XCW/MC	P/PU	IAP	XCW/MC	P/PO
R2P1 .9829	R4P1 .9831	S1 .8958	.9484	S14 .0340	.9409		
R2P2 .9887	R4P2 .9844	S2 .8448	.9486	S15 .1860	.9383		
R2P3 .9706	R4P3 .9905	S11 .8448	.9477	S16 .4150	.9423		
R2P4 .9251	R4P4 .9907	S12 .8448	.9468	S17 .8470	.9597		
R2P5 .8264	R4P5 .9920	S13 .8448	.9483	S18 1.1740	.9352		
	R4P6 .9925	S3 .9128	.9487	S19 1.4590	.8934		
	R4P7 .9936	S4 1.1788	.9241	S20 1.5400	.7734		
	R4P8 .9947	S5 1.4148	.8914	S21 1.8270	.8752		
	R4P9 .9957	S6 1.8618	.8649	S22 2.7840	.6098		
	R4P10 .9971	S7 1.7848	.8769	S23 3.2980	.7068		
	R4P11 .9981	S8 1.9218	.8711	S26 5.2890	.7223		
	R4P12 .9991	S9 2.2848	.8730				
		S10 2.8208	.8506				
		S27 5.3000	.7317				
		S28 1.4148	.9987				

SPIKE H6		COWL H5	
STAT XCW/MC= 3.5040	STAT XCW/MC= 3.3270		
S23 .7068	S23 .7068		
R6P1 .8197	R5P1 .7915		
R6P2 .8378	R5P2 .7940		
R6P3 .8485	R5P3 .8068		
R6P4 .8607	R5P4 .8044		
R6P5 .8719	R5P5 .8248		
R6P8 .8763	R5P6 .8445		
R6P9 .8497	R5P7 .8892		
R6P10 .8202	R5P8 .9582		
R6P11 .7792	R5P9 .9662		
	R5P10 .9509		
	R5P11 .9438		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	17A	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.0862	AMBIENT TEMP	291.1 DEG K	MAX-MIN DIST	.2181
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.4291
START	2:59:40.002	INTERVAL	1.000	ENG. FACE RECOV	.8444	ENGINE M/M*	1.2260	K-RADIAL	.2848
STOP	3: 1: 0.003	ENG CLK RPM	6463.	ENG. FACE MACH NO	.4973	COWL M/M*	.4932	K-DELTA	.1932
				COWL LIP RECOV	.9608	ADDITIVE M/M*	.7328	K-A	.4780
				MACH AT COWL LIP	.1644				

SPIKE #1		COWL #3		STAT X/LW/MC# 5.4830	
STAT X/LW/MC#	.8448	STAT X/LW/MC#	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9466	S14	.9391	A36	.8396 A198
R1P1	.9951	K3P1	.9398	B36	.8193 B198
R1P2	.9993	K3P2	.9398	C36	.7944 C198
R1P3	.9999	K3P3	.9398	D36	.7752 D198
R1P4	.9999	K3P4	.9397	E36	.7624 E198
R1P5	1.0000	K3P5	.9396	90 DEG HAKE	252 DEG HAKE
R1P6	1.0002	K3P6	.9390	A90	.9459 A252
R1P7	1.0003	K3P7	.9992	H90	.8991 B252
R1P8	.9993	K3P8	.9389	C90	.8683 C252
R1P9	.9957	K3P9	.9369	D90	.8564 D252
		K3P10	.9418	E90	.8486 E252
		K3P11	.9556	144 DEG HAKE	324 DEG HAKE
		K3P12	.9745	A144	.9391 A324
		K3P13	1.0003	B144	.8796 B324
		K3P14	.9990	D144	.8374 C324
		K3P15	1.0004	C144	.8172 D324
		K3P16	1.0002	E144	.7971 E324

SPIKE #2		COWL #4		STATIC PRESSURES			
STAT X/LW/MC#	2.2398	STAT X/LW/MC#	1.5380	SPIKE		COWL	
S9	.8667	S26	.7627	X/LW/MC	P/PO	X/LW/MC	P/PO
K2P1	.9820	K4P1	.9808	TAP		S14	.0340
K2P2	.9874	K4P2	.9881	S1	.6958	S15	.0360
K2P3	.9701	K4P3	.9894	S2	.6446	S16	.4150
K2P4	.9218	K4P4	.9896	S11	.6448	S17	.8470
K2P5	.8140	K4P5	.9911	S12	.6448	S18	1.1740
		K4P6	.9916	S13	.6448	S19	1.4590
		K4P7	.9935	S3	.9126	S20	1.5400
		K4P8	.9950	S4	1.1788	S21	1.8270
		K4P9	.9957	S5	1.4146	S22	2.7840
		K4P10	.9973	S6	1.6616	S23	3.2980
		K4P11	.9982	S7	1.7898	S26	5.2890
		K4P12	.9990	S8	1.9218		
				S9	2.2848		
				S10	2.6208		
				S27	5.3000		
				S28	1.4148		

SPIKE #6		COWL #5	
STAT X/LW/MC#	3.5040	STAT X/LW/MC#	3.3270
S23	.6883	S23	.6883
R6P1	.8086	K5P1	.7780
R6P2	.8291	K5P2	.7875
R6P3	.8462	K5P3	.7953
R6P4	.8518	K5P4	.7997
R6P5	.8645	K5P5	.8101
R6P8	.8689	K5P6	.8348
R6P9	.8404	K5P7	.8875
R6P10	.8107	K5P8	.9554
R6P11	.7621	K5P9	.9648
		K5P10	.9500
		K5P11	.9419

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	181	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0862	AMBIENT TEMP	291.7 DEG K	MAX-MIN DIST	.0405
		FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9191 ATMOS	K=CIRCUMF.	.5711
START	3: 9: 9.000	INTERVAL 1.000	ENG. FACE RECUV	.9637	ENGINE M/M*	.9147	K=RADIAL	.1288
STOP	3: 9:14.999	ENG LOW RPM 4250.	ENG. FACE MACH NO	.2454	COWL M/M*	.4686		
			COWL LIP RECUV	.9627	ADDITIVE M/M*	.4861	K-DELTA	-.0285
			MACH AT COWL LIP	.1556			K-A	.1573

SPIKE R1		COWL R3		STAT XLM/RC= 5.4830	
STAT XCM/RC= .8448	STAT XCM/RC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9503	S14 .9427	A36 .9723	A198 .9694		
R1P1 .9963	R3P1 .9422	H36 .9788	B198 .9697		
R1P2 1.0007	R3P2 .9422	C36 .9696	C198 .9728		
R1P3 1.0020	R3P3 .9422	D36 .9591	D198 .9592		
R1P4 1.0019	R3P4 .9423	E36 .9529	E198 .9509		
R1P5 1.0018	R3P5 .9416	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0017	R3P6 .9417	A90 .9717	A252 .9679		
R1P7 1.0017	R3P7 1.0016	H90 .9622	H252 .9661		
R1P8 1.0011	R3P8 .9418	C90 .9690	C252 .9640		
R1P9 .9985	R3P9 .9424	D90 .9586	D252 .9598		
	R3P10 .9453	E90 .9520	E252 .9535		
	R3P11 .9602	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9784	A144 .9743	A324 .9716		
	R3P13 1.0018	H144 .9691	H324 .9773		
	R3P14 1.0010	D144 .9504	C324 .9646		
	R3P15 1.0021	C144 .9468	D324 .9579		
	R3P16 1.0015	E144 .9432	E324 .9563		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC= 2.2398	STAT XCM/RC= 1.5380			SPIKE		COWL	
S9 .8821	S20 .7431	TAP	XCM/RC	P/PO	IAP	XCM/RC	P/PO
R2P1 .9736	R4P1 .9706	S1 .6958	.9494	S14 .0340	.9427		
R2P2 .9940	R4P2 .9845	S2 .8448	.9503	S15 .1860	.9396		
R2P3 .9878	R4P3 .9909	S11 .8448	.9462	S16 .4150	.9404		
R2P4 .9624	R4P4 .9923	S12 .8448	.9462	S17 .8470	.9603		
R2P5 .9346	R4P5 .9935	S13 .8448	.9498	S18 1.1740	.9366		
	R4P6 .9941	S3 .9128	.9477	S19 1.4590	.8889		
	R4P7 .9954	S4 1.1780	.9214	S20 1.5400	.7431		
	R4P8 .9966	S5 1.4146	.8840	S21 1.8270	.8474		
	R4P9 .9977	S6 1.6618	.8442	S22 2.7840	.8992		
	R4P10 .9984	S7 1.7898	.8475	S23 3.2980	.9177		
	R4P11 .9997	S8 1.9216	.8506	S26 5.2890	.9217		
	R4P12 1.0006	S9 2.2848	.8821				
		S10 2.6208	.9524				
		S27 5.3000	.9253				
		S28 1.4148	1.0001				

SPIKE R6		COWL R5	
STAT XCM/RC= 3.5040	STAT XCM/RC= 3.3270		
S23 .9177	S23 .9177		
R6P1 .9442	R5P1 .9247		
R6P2 .9486	R5P2 .9259		
R6P3 .9492	R5P3 .9261		
R6P4 .9523	R5P4 .9267		
R6P5 .9557	R5P5 .9276		
R6P6 .9754	R5P6 .9275		
R6P7 .9850	R5P7 .9276		
R6P8 .9907	R5P8 .9349		
R6P9 .9931	R5P9 .9455		
	R5P10 .9606		
	R5P11 .9436		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	182	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.0860	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0469
START	3:13:0.000	FLIGHT NO. 0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9186 ATMOS	K-CIRCUMF.	.5186
STOP	3:13:36.000	INTERVAL 1.000	ENG. FALC RECOV	.9584	ENGINE M/M	.9338	K-RADIAL	.1574
		ENG COM RPM 4432.	ENG. FALC MACH NO	.2612	COML M/M	.4869		
			COML LIP RECOV	.9583	ADDITIVE M/M	.4469	K-DELTA	-.0490
			MACH AT COML LIP	.1627			K-A	.2064

SPIKE R1		COML H3		STAT XCM/HCL= 5.4830	
STAT XCM/RC= .8450	STAT XCM/ML= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9448	S14 .9367	A36 .9683	A198 .9695		
R1P1 .9967	R3P1 .9363	B36 .9771	B198 .9655		
R1P2 1.0012	R3P2 .9362	C36 .9643	C198 .9608		
R1P3 1.0021	R3P3 .9360	D36 .9551	D198 .9457		
R1P4 1.0019	R3P4 .9361	E36 .9471	E198 .9344		
R1P5 1.0024	R3P5 .9362	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0023	R3P6 .9362	A90 .9640	A252 .9647		
R1P7 1.0024	R3P7 1.0018	H90 .9742	H252 .9643		
R1P8 1.0019	R3P8 .9360	C90 .9651	C252 .9597		
R1P9 .9998	R3P9 .9361	D90 .9523	D252 .9559		
	R3P10 .9389	E90 .9444	E252 .9503		
	R3P11 .9518	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9718	A144 .9724	A324 .9686		
	R3P13 1.0021	H144 .9656	H324 .9764		
	R3P14 1.0011	D144 .9432	D324 .9603		
	R3P15 1.0026	C144 .9387	C324 .9521		
	R3P16 1.0025	E144 .9343	E324 .9510		

SPIKE R2		COML H4		STATIC PRESSURES			
STAT XCM/RC= 2.2400	STAT XCM/ML= 1.5340			SPIKE		COML	
S9 .8664	S20 .7038	TAP		XCM/RC	P/P0	XCM/RC	P/P0
R2P1 .9713	R4P1 .9733	S1	.0960	.9445	S14	.0340	.9367
R2P2 .9944	R4P2 .9880	S2	.8450	.9448	S15	.1860	.9342
R2P3 .9871	R4P3 .9847	S11	.8450	.9416	S16	.4150	.9344
R2P4 .9582	R4P4 .9408	S12	.8450	.9422	S17	.8470	.9556
R2P5 .9256	R4P5 .9418	S13	.8450	.9453	S18	1.1740	.9293
	R4P6 .9430	S3	.9130	.9423	S19	1.4590	.8752
	R4P7 .9449	S4	1.1740	.9124	S20	1.5400	.7038
	R4P8 .9465	S5	1.4150	.8664	S21	1.8270	.8257
	R4P9 .9478	S6	1.0020	.8217	S22	2.7840	.8852
	R4P10 .9445	S7	1.7400	.8263	S23	3.2980	.9064
	R4P11 1.0001	S8	1.9220	.8246	S26	5.2890	.9110
	R4P12 1.0004	S9	2.2850	.8664			
		S10	2.6210	.9450			
		S27	5.3000	.9153			
		S28	1.4150	1.0013			

SPIKE H6		COML H5	
STAT XCM/RC= 3.5040	STAT XCM/ML= 3.3270		
S23 .9064	S23 .9064		
H6P1 .7351	H5P1 .9142		
H6P2 .9395	H5P2 .9151		
H6P3 .9415	H5P3 .9159		
H6P4 .9482	H5P4 .9157		
H6P5 .9476	H5P5 .9159		
H6P8 .9743	H5P6 .9167		
H6P9 .9854	H5P7 .9177		
H6P10 .9902	H5P8 .9271		
H6P11 .9922	H5P9 .9363		
	H5P10 .9560		
	H5P11 .9819		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	183	FLIGHT DATE	09/20/79	SPIKE POS. UX/MC	.0862	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0566
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9190 ATMOS	K-CIRCUMF.	.4784
START	3:14:55.000	INTERVAL	1.000	ENG. FACE RECOV	.9497	ENGINE M/M*	.9570	K-RADIAL	.1684
STOP	3:15:25.000	ENG CUR RPM	4652.	ENG. FACE MACH NO	.2842	COWL M/M*	.5201		
				COWL LIP RECOV	.9517	ADDITIVE M/M*	.4369	K-DELTA	-.0501
				MACH AT COWL LIP	.1754			K-A	.2185

SPIKE R1		COWL R3		STAT XCM/MC= 5.4830	
STAT XCM/MC= .8448		STAT XCM/MC= .0700		36 DEG HAKE	198 DEG HAKE
S2 .9357	S14 .9274	A36 .9610	A198 .9588		
R1P1 .9955	R3P1 .9200	M36 .9704	B198 .9553		
R1P2 1.0006	R3P2 .9203	C36 .9501	C198 .9581		
R1P3 1.0016	R3P3 .9203	D36 .9457	D198 .9413		
R1P4 1.0015	R3P4 .9200	E36 .9352	E198 .9331		
R1P5 1.0016	R3P5 .9200	90 DEG HAKE	252 DEG HAKE		
R1P6 1.0016	R3P6 .9200	A90 .9622	A252 .9588		
R1P7 1.0016	R3P7 1.0009	H90 .9738	B252 .9566		
R1P8 1.0009	R3P8 .9255	C90 .9582	C252 .9505		
R1P9 .9977	R3P9 .9200	D90 .9424	D252 .9449		
	R3P10 .9301	E90 .9325	E252 .9358		
	R3P11 .9403	144 DEG HAKE	324 DEG HAKE		
	R3P12 .9703	A144 .9607	A324 .9633		
	R3P13 1.0022	H144 .9551	H324 .9693		
	R3P14 1.0006	D144 .9295	C324 .9521		
	R3P15 1.0022	C144 .9248	D324 .9417		
	R3P16 1.0021	E144 .9200	E324 .9401		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/MC= 2.2398		STAT XCM/MC= 1.5380		SPIKE		COWL	
S9 .8412	S20 .6532	TAP	XCM/MC	P/PO	IAP	XCM/MC	P/PO
R2P1 .9650	R4P1 .9685	S1 .6958	.9356	S14 .0340	.9274		
R2P2 .9930	R4P2 .9846	S2 .8448	.9357	S15 .1860	.9241		
R2P3 .9829	R4P3 .9802	S11 .8448	.9323	S16 .4150	.9252		
R2P4 .9480	R4P4 .9864	S12 .8446	.9342	S17 .8470	.9488		
R2P5 .9004	R4P5 .9900	S13 .8448	.9359	S18 1.1740	.9182		
	R4P6 .9407	S3 .9128	.9325	S19 1.4590	.8546		
	R4P7 .9430	S4 1.1788	.8963	S20 1.5400	.6532		
	R4P8 .9954	S5 1.4148	.8473	S21 1.8270	.7932		
	R4P9 .9401	S6 1.0018	.7871	S22 2.7840	.8644		
	R4P10 .9403	S7 1.7848	.7929	S23 3.2980	.8879		
	R4P11 .9947	S8 1.9216	.7972	S26 5.2890	.8947		
	R4P12 1.0006	S9 2.2848	.8412				
		S10 2.6208	.9329				
		S27 5.3000	.8991				
		S28 1.4148	1.0003				

SPIKE R6		COWL R5	
STAT XCM/MC= 3.5040		STAT XCM/MC= 3.3270	
S23 .8879	S23 .8879		
R6P1 .9238	R5P1 .8974		
R6P2 .9274	R5P2 .8473		
R6P3 .9328	R5P3 .8996		
R6P4 .9348	R5P4 .8985		
R6P5 .9391	R5P5 .8946		
R6P8 .9696	R5P6 .8942		
R6P9 .9829	R5P7 .9012		
R6P10 .9895	R5P8 .9086		
R6P11 .9908	R5P9 .9234		
	R5P10 .9451		
	R5P11 .9774		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	184	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.0001	AMBIENT TEMP	292.2 DEG K	MAX-MIN DIST	.0059
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9188 ATMOS	K-CIRCUMF.	.4476
START	3:16:10.000	INTERVAL	1.000	ENG. FALC REC'D	.9422	ENGINE M/M*	.9719	K-RADIAL	.1952
STOP	3:16:40.000	ENG CUM RPM	4818.	ENG. FALC MACH NO	.2988	COWL M/M*	.5402	K-DELTA	-.0553
				COWL LIP REC'D	.9467	ADDITIVE M/M*	.4317	K-A	.2505
				MACH AT COWL LIP	.1835				

SPIKE W1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.8449	STAT XCW/KC=	.0700	30 DEG MAKE	198 DEG MAKE
S2	.9292	S14	.9202	A36	.9555 A198 .9554
R1P1	.9952	K3P1	.9187	H36	.9665 H198 .9506
R1P2	1.0008	K3P2	.9191	C36	.9501 C198 .9476
R1P3	1.0018	R3P3	.9194	D36	.9374 D198 .9261
R1P4	1.0015	R3P4	.9191	E36	.9276 E198 .9133
R1P5	1.0018	K3P5	.9192	90 DEG MAKE	252 DEG MAKE
R1P6	1.0019	K3P6	.9194	A90	.9588 A252 .9498
R1P7	1.0019	K3P7	1.0010	H90	.9717 H252 .9512
R1P8	1.0010	K3P8	.9184	C90	.9526 C252 .9443
R1P9	.9975	K3P9	.9190	D90	.9324 D252 .9370
		K3P10	.9221	E90	.9228 E252 .9248
		K3P11	.9407	144 DEG MAKE	324 DEG MAKE
		K3P12	.9660	A144	.9614 A324 .9576
		K3P13	1.0016	H144	.9494 H324 .9666
		K3P14	1.0001	D144	.9213 C324 .9457
		K3P15	1.0022	C144	.9155 D324 .9345
		K3P16	1.0016	E144	.9096 E324 .9247

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	2.2399	STAT XCW/KC=	1.5380	SPIKE		COWL	
S9	.8215	S20	.6074	TAP	XCW/KC	P/PU	IAP
R2P1	.9599	K4P1	.9053	S1	.6959	.9298	S14
R2P2	.9912	K4P2	.9847	S2	.8449	.9242	S15
R2P3	.9803	K4P3	.9855	S11	.8449	.9256	S16
R2P4	.9394	K4P4	.9878	S12	.8449	.9268	S17
R2P5	.8962	K4P5	.9843	S13	.8449	.9303	S18
		K4P6	.9901	S3	.9124	.9266	S19
		K4P7	.9935	S4	1.1784	.8888	S20
		K4P8	.9952	S5	1.4149	.8245	S21
		K4P9	.9967	S6	1.6614	.7571	S22
		K4P10	.9982	S7	1.7844	.7647	S23
		K4P11	.9989	S8	1.9214	.7709	S26
		K4P12	1.0003	S9	2.2844	.8215	
				S10	2.6204	.9238	
				S27	5.3000	.8866	
				S28	1.4144	1.0003	

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.8733	S23	.8733
R6P1	.9122	K5P1	.8832
R6P2	.9178	K5P2	.8852
R6P3	.9220	K5P3	.8858
R6P4	.9260	K5P4	.8855
R6P5	.9305	K5P5	.8873
R6P6	.9603	K5P6	.8859
R6P7	.9808	K5P7	.8866
R6P8	.9878	K5P8	.8853
R6P9	.9880	K5P9	.9127
		K5P10	.9350
		K5P11	.9740

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	165	FLIGHT DATE	09/20/79	SPK POS. DX/RC	.0853	AMBIENT TEMP	292.8 DEG K	MAX=MIN DIST	.0719
		FLIGHT NO.	0	BYPASS POS.	CLOSED	AMBIENT PRESS	.9190 ATMUS	K=CIRCUMF.	.4232
START	3:14:30.003	INTERVAL	1.000	ENG. FACE RECUV	.9321	ENGINE M/M	.9915	K=RADIAL	.2060
STOP	3:19: .000	ENG LUN RPM	5029.	ENG. FACE MACH NO	.5243	COWL M/M	.5668	K=DELTA	-.0478
				COWL LIP RECUV	.9404	ADDITIVE M/M	.4248	K=A	.2538
				MACH AT COWL LIP	.1942				

SPIKE W1		COWL W3		STAT XCN/RC= 5.4830	
STAT XCN/RC= .8457	STAT XCN/RC= .0700	36 DEG MAKE		198 DEG MAKE	
S2	.9217	S14	.9103	A36	.9488
K1P1	.9934	K3P1	.9095	M36	.9575
K1P2	.9999	K3P2	.9044	C36	.9357
R1P3	1.0011	K3P3	.9096	D36	.9210
R1P4	1.0010	K3P4	.9047	E36	.9090
K1P5	1.0010	K3P5	.9044	90 DEG MAKE	
K1P6	1.0011	K3P6	.9047	A90	.9442
K1P7	1.0012	K3P7	1.0007	M90	.9630
K1P8	1.0004	K3P8	.9042	C90	.9443
K1P9	.9975	K3P9	.9041	D90	.9243
		K3P10	.9133	E90	.9122
		P3P11	.9330	144 DEG MAKE	
		K3P12	.9624	A144	.9560
		K3P13	1.0013	M144	.9553
		K3P14	.9994	D144	.9070
		K3P15	1.0013	C144	.9015
		K3P16	1.0013	E144	.8959

SPIKE W2		COWL W4		STATIC PRESSURES			
STAT XCN/RC= 2.2407	STAT XCN/RC= 1.5380			SPK	XCW/RC	P/PO	IAP
S9	.7930	S20	.5422	S1	.6967	.9223	S14
R2P1	.9522	K4P1	.9604	S2	.8457	.9217	S15
R2P2	.9909	K4P2	.9619	S11	.8457	.9172	S16
R2P3	.9738	K4P3	.9638	S12	.8457	.9198	S17
K2P4	.9228	K4P4	.9653	S13	.8457	.9221	S18
K2P5	.8728	K4P5	.9674	S3	.9137	.9184	S19
		K4P6	.9682	S4	1.1797	.8748	S20
		K4P7	.9667	S5	1.4157	.8074	S21
		K4P8	.9423	S6	1.6627	.7147	S22
		K4P9	.9943	S7	1.7407	.7247	S23
		K4P10	.9463	S8	1.9227	.7321	S26
		K4P11	.9985	S9	2.2857	.7930	
		K4P12	.9994	S10	2.6217	.9091	
				S27	5.3000	.8685	
				S28	1.4157	.9998	

SPIKE W6		COWL W5	
STAT XCN/RC= 3.5040	STAT XCN/RC= 3.3270		
S23	.8514	S23	.8514
K6P1	.8984	K5P1	.8040
K6P2	.9036	K5P2	.8051
K6P3	.9077	K5P3	.8002
K6P4	.9139	K5P4	.8003
K6P5	.9184	K5P5	.8072
K6P6	.9595	K5P6	.8061
K6P7	.9778	K5P7	.8070
K6P10	.9857	K5P8	.8770
K6P11	.9875	K5P9	.8403
		K5P10	.9215
		K5P11	.9633

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	187	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8569	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.0242
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9201 ATMOS	K-CIRCUMF.	.7473
START	4:29:15.000	INTERVAL	1.000	ENG. FACE RECUV	.9784	ENGINE M/M*	.4871	K-RADIAL	.0716
STOP	4:29:44.999	ENG LOK RPM	3754.	ENG. FACE MACH NO	.2139	COWL M/M*	.2331	K-DELTA	.0570
				COWL LIP RECUV	.9878	ADDITIVE M/M*	.2539	K-A	.1287
				MACH AT COWL LIP	.1340				

SPIKE K1		COWL K3		STAT XLM/KC= 5.4830	
STAT XCM/KC= .0741	STAT XLM/KC= .0700	30 DEG MAKE	198 DEG MAKE		
S2 .9848	S14 .9602	A36 .9751	A198 .9848		
R1P1 1.0022	R3P1 .9653	H36 .9739	B198 .9848		
R1P2 1.0022	R3P2 .9650	C36 .9680	C198 .9820		
R1P3 1.0021	R3P3 .9654	D36 .9674	D198 .9731		
R1P4 1.0018	R3P4 .9650	E36 .9660	E198 .9734		
R1P5 1.0021	R3P5 .9651	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0020	R3P6 .9651	A90 .9847	A252 .9840		
R1P7 1.0021	R3P7 1.0010	H90 .9842	H252 .9807		
R1P8 1.0017	R3P8 .9706	C90 .9815	C252 .9773		
R1P9 1.0019	R3P9 .9835	D90 .9774	D252 .9764		
	R3P10 .9474	E90 .9758	E252 .9750		
	R3P11 1.0042	144 DEG MAKE	324 DEG MAKE		
	R3P12 1.0023	A144 .9864	A324 .9798		
	R3P13 1.0053	H144 .9826	H324 .9793		
	R3P14 1.0053	D144 .9801	D324 .9770		
	R3P15 1.0053	C144 .9781	C324 .9767		
	R3P16 1.0053	E144 .9762	E324 .9749		

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCM/KC= 1.4691	STAT XLM/KC= 1.5380			SPIKE	P/PO	COWL	P/PO
S4 .9803	S20 .9760	TAP	XLM/KC	P/PO	TAP	XLM/KC	P/PO
R2P1 1.0005	R4P1 .9866	S1	.0744	.9965	S14	.0340	.9662
R2P2 .9967	R4P2 .9886	S2	.0741	.9848	S15	.1860	.9615
R2P3 .9965	R4P3 .9840	S11	.0741	.9839	S16	.4150	.9667
R2P4 .9910	R4P4 .9848	S12	.0741	.9839	S17	.8470	.9821
R2P5 .9940	R4P5 .9907	S13	.0741	.9841	S18	1.1740	.9801
	R4P6 .9846	S3	.1421	.9748	S19	1.4590	.9806
	R4P7 .9844	S4	.4061	.9639	S20	1.5400	.9760
	R4P8 .9903	S5	.6441	.9716	S21	1.8270	.9789
	R4P9 .9911	S6	.8911	.9778	S22	2.7840	.9363
	R4P10 .9911	S7	1.0191	.9789	S23	3.2960	.9481
	R4P11 .9913	S8	1.1511	.9744	S26	5.2840	.9467
	R4P12 .9921	S9	1.5141	.9803			
		S10	1.8501	.9935			
		S27	5.3000	.9482			
		S28	.6441	1.0011			

SPIKE K6		COWL K5	
STAT XCM/KC= 3.5040	STAT XLM/KC= 3.3270		
S23 .9481	S23 .9481		
R6P1 .9813	R5P1 .9647		
R6P2 .9860	R5P2 .9667		
R6P3 .9907	R5P3 .9665		
R6P4 .9868	R5P4 .9668		
R6P5 .9888	R5P5 .9682		
R6P8 .9877	R5P6 .9717		
R6P9 .9858	R5P7 .9780		
R6P10 .9851	R5P8 .9847		
R6P11 .9773	R5P9 .9843		
	R5P10 .9920		
	R5P11 .9926		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	169	FLIGHT DATE 09/20/79	SPIKE POS. 0X/KC	.8576	AMBIENT TEMP	296.1 DEG K	MAX-MIN DIST	.1381
START	4:31:50.003	FLIGHT NO. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9192 ATMOS	K-CIRCUMP.	1.3004
STOP	4:33:50.000	INTERVAL 1.000	ENG. FALC RECOV	.9434	ENGINE M/M*	.4973	K-RADIAL	.1372
		ENG CUM RPM 4209.	ENG. FALC MACH NO	.1617	COWL M/M*	.2760	K-DELTA	.6879
			COWL LIP RECOV	.9595	ADDITIVE M/M*	.2213	K-A	.8251
			MACH AT COWL LIP	.1642				

SPIKE R1		COWL K3		STAT XCW/MC= 5.4830	
STAT XCW/MC=	.0734	STAT XCW/MC=	.0700	30 DEG HAKE	198 DEG HAKE
S2	.9305	S14	.9527	A36	.9675 A198
R1P1	.9487	K3P1	.9513	H36	.9632 B198
R1P2	.9650	K3P2	.9513	C36	.9553 C198
R1P3	.9660	K3P3	.9514	D36	.9554 D198
R1P4	.9300	K3P4	.9508	E36	.9535 E198
R1P5	.9900	K3P5	.9510	90 DEG HAKE	252 DEG HAKE
R1P6	.9858	K3P6	.9511	A90	.9661 A252
R1P7	.9713	K3P7	.9653	B90	.9652 B252
R1P8	.9615	K3P8	.9623	C90	.9784 C252
R1P9	.9494	K3P9	.9827	D90	.9723 D252
		K3P10	1.0013	E90	.9682 E252
		R3P11	1.0050	144 DEG HAKE	324 DEG HAKE
		R3P12	1.0012	A144	.9790 A324
		R3P13	1.0050	B144	.9735 B324
		K3P14	1.0061	D144	.9695 C324
		K3P15	1.0060	C144	.9670 D324
		K3P16	1.0060	E144	.9644 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/MC=	1.4644	STAT XCW/MC=	1.5340	SPIKE		COWL	
S9	.9526	S20	.9676	XCW/MC	P/P0	TAP	XCW/MC
R2P1	.9815	K4P1	.9830	S1	.9756 .9960	S14	.0340 .9527
R2P2	.9730	K4P2	.9852	S2	.9734 .9305	S15	.1860 .9482
R2P3	.9169	K4P3	.9854	S11	.9734 .9741	S16	.4150 .9543
R2P4	.9480	K4P4	.9854	S12	.9734 .9740	S17	.8470 .9699
R2P5	.9447	K4P5	.9862	S13	.9734 .9787	S18	1.1740 .9731
		K4P6	.9865	S3	.9714 .9670	S19	1.4590 .9740
		K4P7	.9871	S4	.9674 .9517	S20	1.5400 .9676
		K4P8	.9860	S5	.9634 .9627	S21	1.8270 .9717
		K4P9	.9866	S6	.9604 .9701	S22	2.7440 .9114
		K4P10	.9848	S7	1.0184 .9716	S23	3.2480 .9274
		K4P11	.9897	S8	1.1504 .9728	S26	5.2490 .9263
		K4P12	.9848	S9	1.5134 .9526		
				S10	1.8444 .9917		
				S27	5.3000 .9293		
				S28	.9434 1.0027		

SPIKE R6		COWL K5	
STAT XCW/MC=	3.5040	STAT XCW/MC=	3.3270
S23	.9274	S23	.9274
R6P1	.9260	K5P1	.9465
R6P2	.9240	K5P2	.9523
R6P3	.9532	K5P3	.9529
R6P4	.9305	K5P4	.9533
R6P5	.9412	K5P5	.9561
R6P6	.9440	K5P6	.9601
R6P7	.9640	K5P7	.9703
R6P8	.9202	K5P8	.9811
R6P9	.9397	K5P9	.9858
		K5P10	.9844
		K5P11	.9918

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	149	FLIGHT DATE	09/20/79	SPIKE POS. DX/MC	.8570	AMBIENT TEMP	296.7 DEG K	MAX=MIN DIST	.0472
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9191 ATMOS	K=CIRCUMF.	.5944
START	4:33:50.000	INTERVAL	1.000	ENG. FALC RECOV	.9564	ENGINE M/M*	.5391	K=RADIAL	.1325
STOP	4:34:20.000	ENG CUM RPM	4667.	ENG. FALC MACH NO	.2444	COWL M/M*	.3155	K=DELTA	.0626
				COWL LIP RECOV	.9761	ADDITIVE M/M*	.2236	K=A	.1952
				MACH AT COWL LIP	.1854				

SPIKE R1		COWL R3		STAT XCM/MC= 5.4830	
STAT XCM/MC= .0740	STAT XCM/MC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9717	S14 .9342	A36 .9543	A198 .9691		
R1P1 1.0035	R3P1 .9338	M36 .9485	M198 .9666		
R1P2 1.0035	R3P2 .9336	C36 .9441	C198 .9644		
R1P3 1.0034	R3P3 .9337	D36 .9402	D198 .9647		
R1P4 1.0033	R3P4 .9336	E36 .9355	E198 .9382		
R1P5 1.0034	R3P5 .9340	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0032	R3P6 .9334	A90 .9806	A252 .9714		
R1P7 1.0033	R3P7 1.0034	H90 .9761	H252 .9634		
R1P8 1.0034	R3P8 .9460	C90 .9644	C252 .9514		
R1P9 1.0019	R3P9 .9737	D90 .9614	D252 .9451		
	R3P10 .9481	E90 .9552	E252 .9349		
	R3P11 1.0053	144 DEG MAKE	324 DEG MAKE		
	R3P12 1.0008	A144 .9647	A324 .9606		
	R3P13 1.0054	B144 .9656	B324 .9637		
	R3P14 1.0061	D144 .9545	D324 .9598		
	R3P15 1.0057	C144 .9442	C324 .9541		
	R3P16 1.0058	E144 .9434	E324 .9445		

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/MC= 1.4690	STAT XCM/MC= 1.5380	SPIKE		COWL			
S9 .9635	S20 .9542	ALW/MC	P/PO	TAP	XCM/MC	P/PO	
R2P1 .9879	R4P1 .9754	S1 .9750	.9441	S14 .9340	.9342		
R2P2 .9441	R4P2 .9756	S2 .9740	.9717	S15 .9660	.9247		
R2P3 .9893	R4P3 .9776	S11 .9740	.9706	S16 .9450	.9374		
R2P4 .9820	R4P4 .9781	S12 .9740	.9710	S17 .9470	.9583		
R2P5 .9763	R4P5 .9781	S13 .9740	.9706	S18 1.1740	.9636		
	R4P6 .9800	S3 .9420	.9544	S19 1.4590	.9638		
	R4P7 .9744	S4 .9060	.9337	S20 1.5400	.9542		
	R4P8 .9811	S5 .9640	.9482	S21 1.8270	.9612		
	R4P9 .9831	S6 .9910	.9585	S22 2.7840	.8835		
	R4P10 .9828	S7 1.0140	.9617	S23 3.2980	.8995		
	R4P11 .9834	S8 1.1510	.9621	S26 5.2690	.8972		
	R4P12 .9850	S9 1.5140	.9635				
		S10 1.8500	.9804				
		S27 5.3000	.9027				
		S28 .6440	1.0023				

SPIKE R6		COWL R5	
STAT XCM/MC= 3.5040	STAT XCM/MC= 3.3270		
S23 .8995	S23 .8945		
R6P1 .9553	R5P1 .9224		
R6P2 .9695	R5P2 .9323		
R6P3 .9702	R5P3 .9367		
R6P4 .9755	R5P4 .9330		
R6P5 .9788	R5P5 .9360		
R6P6 .9752	R5P6 .9417		
R6P9 .9712	R5P7 .9564		
R6P10 .9651	R5P8 .9695		
R6P11 .9547	R5P9 .9782		
	R5P10 .9832		
	R5P11 .9863		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	190	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	296.7 DEG K	MAX-MIN DIST	.0908
		FLIGHT NO. 0	HYPASS POS.	OPEN	AMBIENT PRESS	19207 ATMOS	K=CIRCUMF.	.5098
START	4:36:5.001	INTERVAL 1.000	ENG. FACE RECOV	.9425	ENGINE M/M	.5583	K=RADIAL	.1024
STOP	4:36:135.000	ENG CLK RPM 5013.	ENG. FACE MACH NO	.3252	COWL M/M	.3557		
			COWL LIP RECOV	.9689	ADDITIVE M/M	.2026	K=DELTA	.0313
			MACH AT COWL LIP	.2118			K=A	.1337

SPIKE H1		COWL H3		STAT XCM/MC= 5.4830	
STAT XCM/MC=	.0728	STAT XCM/MC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9622	S14	.9160	A36	.9471 A198
R1P1	1.0005	R3P1	.9141	B36	.9346 B198
R1P2	1.0011	K3P2	.9141	C36	.9307 C198
R1P3	1.0140	K3P3	.9151	D36	.9238 D198
R1P4	1.0011	K3P4	.9156	E36	.9225 E198
R1P5	1.0012	K3P5	.9164	90 DEG HAKE	252 DEG HAKE
R1P6	1.0006	K3P6	.9169	A90	.9733 A252
R1P7	1.0012	R3P7	1.0005	B90	.9680 B252
R1P8	1.0008	K3P8	.9380	C90	.9557 C252
R1P9	.9993	R3P9	.9779	D90	.9480 D252
		K3P10	1.0001	E90	.9404 E252
		K3P11	1.0031	144 DEG HAKE	324 DEG HAKE
		R3P12	.9995	A144	.9665 A324
		R3P13	1.0039	B144	.9595 B324
		K3P14	1.0033	D144	.9438 D324
		K3P15	1.0035	C144	.9363 C324
		K3P16	1.0036	E144	.9268 E324

SPIKE H2		COWL H4		STATIC PRESSURES			
STAT XCM/MC=	1.4678	STAT XCM/MC=	1.5380	SPIKE	XCM/MC	P/PO	IAP
S9	.9517	S20	.9409	S1	.0762	.0000	S14
R2P1	.9818	K4P1	.9651	TAP			S15
R2P2	.9923	K4P2	.9679	S1	.0726	.9622	S16
R2P3	.9885	K4P3	.9715	S2	.0726	.9608	S17
R2P4	.9744	K4P4	.9712	S11	.0726	.0000	S18
R2P5	.9682	K4P5	.9725	S12	.0726	.9623	S19
		K4P6	.9755	S3	.1408	.9421	S20
		K4P7	.9748	S4	.4068	.9180	S21
		K4P8	.9758	S5	.6428	.9363	S22
		K4P9	.9767	S6	.8898	.9475	S23
		K4P10	.9762	S7	1.0170	.9506	S26
		K4P11	.9791	S8	1.1498	.9499	
		K4P12	.9786	S9	1.5128	.9517	
				S10	1.8488	.9644	
				S27	5.3000	.8774	
				S28	.6428	1.0002	

SPIKE H6		COWL H5	
STAT XCM/MC=	3.5040	STAT XCM/MC=	3.3270
S23	.8737	S23	.8737
R6P1	.9443	K5P1	.9142
R6P2	.9609	K5P2	.9181
H6P3	.9641	K5P3	.9156
H6P4	.8943	K5P4	.9185
H6P5	.9692	K5P5	.9246
H6P8	.9742	K5P6	.9272
H6P9	.9643	K5P7	.9444
H6P10	.9574	K5P8	.9641
H6P11	.9404	K5P9	.9729
		K5P10	.9778
		K5P11	.9795

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	191	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	296.7 DEG K	MAX=MIN DIST	.0665
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9216 ATMOS	K=CIRCUMF.	.5103
START	4:37:45.000	INTERVAL	1.000	ENG. FACE RECUV	.9342	ENGINE M/M*	.5862	K=RADIAL	.1518
STOP	4:38:15.000	ENG LOK MPH	5379.	ENG. FACE MACH NO	.3569	COWL M/M*	.3703	K=DELTA	.0874
				COWL LIP RECUV	.9616	ADDITIVE M/M*	.2159	K=A	.2392
				MACH AT COWL LIP	.2228				

SPIKE R1		COWL R3		STAT XCW/KC# 5.4830	
STAT XCW/KC#	.0728	STAT XCW/KC#	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9552	S14	.9028	A36	.9313
R1P1	.9992	R3P1	.9018	B36	.9215
R1P2	.9998	R3P2	.9019	C36	.9156
R1P3	1.0000	R3P3	.9010	D36	.9113
R1P4	.9998	R3P4	.9014	E36	.9005
R1P5	.9979	R3P5	.9016	90 DEG HAKE	252 DEG HAKE
R1P6	.9996	R3P6	.9016	A90	.9686
R1P7	1.0001	R3P7	.9999	H90	.9613
R1P8	1.0001	R3P8	.9243	C90	.9446
R1P9	.9984	R3P9	.9687	D90	.9347
		R3P10	.9979	E90	.9295
		R3P11	1.0015	144 DEG HAKE	324 DEG HAKE
		R3P12	.9965	A144	.9608
		R3P13	1.0028	B144	.9525
		R3P14	1.0026	D144	.9310
		R3P15	1.0029	E144	.9261
		R3P16	1.0027		.9213

SPIKE R2		COWL R4		STATIC PRESSURES	
STAT XCW/KC#	1.4678	STAT XCW/KC#	1.5380		
S9	.9438	S20	.9303	SPIKE	
R2P1	.9778	R4P1	.9584	XCW/KC	P/PO
R2P2	.9900	R4P2	.9608	TAP	IAP
R2P3	.9833	R4P3	.9605	S1	.9870
R2P4	.9708	R4P4	.9606	S2	.9552
R2P5	.9637	R4P5	.9606	S11	.9546
		R4P6	.9655	S12	.9541
		R4P7	.9674	S13	.9551
		R4P8	.9691	S3	.9322
		R4P9	.9691	S4	.9030
		R4P10	.9712	S5	.9256
		R4P11	.9737	S6	.9384
		R4P12	.9753	S7	.9415
				S8	.9430
				S9	.9438
				S10	.9760
				S27	.8575
				S28	.9990

SPIKE R6		COWL R5	
STAT XCW/KC#	3.5040	STAT XCW/KC#	3.3270
S23	.8502	S23	.8502
R6P1	.9330	R5P1	.8904
R6P2	.9522	R5P2	.9014
R6P3	.9585	R5P3	.9030
R6P4	.9640	R5P4	.9072
R6P5	.9678	R5P5	.9120
R6P8	.9648	R5P6	.9207
R6P9	.9554	R5P7	.9377
R6P10	.9432	R5P8	.9530
R6P11	.9264	R5P9	.9695
		R5P10	.9709
		R5P11	.9692

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	192	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8582	AMBIENT TEMP	297.2 DEG K	MAX-MIN DIST	.0767
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9139 ATMOS	K-CIRCUMF.	.4917
START	4:40:40.002	INTERVAL 1.000	ENG. FALC RECOV	.9344	ENGINE M/M	.0085	K-RADIAL	.1457
STOP	4:41: 9.998	ENG CUM RPM 5601.	ENG. FALC MACH NO	.3855	COWL M/M	.3929	K-DELTA	.1014
			COWL LIP RECOV	.9663	ADDITIVE M/M	.2155	K-A	.2472
			MACH AT COWL LIP	.2362				

SPIKE R1		COWL M3		STAT XCW/MC= 5.4830	
STAT XCW/MC= .0728		STAT XCW/MC= .0700		36 DEG MAKE	198 DEG MAKE
S2 .9592	S14 .8948	A36 .9344	A198 .9552		
R1P1 1.0077	R3P1 .8977	B36 .9213	B198 .9541		
R1P2 1.0056	R3P2 .8974	C36 .9121	C198 .9486		
R1P3 1.0081	R3P3 .8974	D36 .9087	D198 .9169		
R1P4 1.0069	R3P4 .8969	E36 .9018	E198 .9046		
R1P5 1.0076	R3P5 .8972	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0059	R3P6 .8969	A90 .9735	A252 .9400		
R1P7 1.0081	R3P7 1.0083	H90 .9672	H252 .9333		
R1P8 1.0061	R3P8 .9339	C90 .9446	C252 .9208		
R1P9 1.0065	R3P9 .9854	D90 .9382	D252 .9165		
	R3P10 1.0085	E90 .9294	E252 .9101		
	R3P11 1.0103	144 DEG MAKE	324 DEG MAKE		
	R3P12 1.0042	A144 .9639	A324 .9376		
	R3P13 1.0110	H144 .9563	H324 .9471		
	R3P14 1.0104	O144 .9336	O324 .9462		
	R3P15 1.0104	C144 .9294	C324 .9352		
	R3P16 1.0104	E144 .9252	E324 .9217		

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCW/MC= 1.4678		STAT XCW/MC= 1.5340		SPIKE		COWL	
S9 .9458	S20 .9289			XCW/MC	P/PO	XCW/MC	P/PO
R2P1 .9833	R4P1 .9541	TAP		S14		S14	
R2P2 .9948	R4P2 .9639	S1	.9762	.9942		.0340	.8998
R2P3 .9857	R4P3 .9664	S2	.9728	.9542		.1860	.8934
R2P4 .9763	R4P4 .9694	S11	.9728	.9576		.4150	.9061
R2P5 .9671	R4P5 .9643	S12	.9728	.9574		.8470	.9399
	R4P6 .9701	S13	.9728	.9584		1.1740	.9477
	R4P7 .9706	S3	.1408	.9324		1.4590	.9477
	R4P8 .9712	S4	.4068	.9002		1.5400	.9289
	R4P9 .9736	S5	.6428	.9245		1.8270	.9437
	R4P10 .9749	S6	.8848	.9344		2.7840	.8127
	R4P11 .9760	S7	1.0178	.9439		3.2480	.8380
	R4P12 .9770	S8	1.1448	.9447		5.2840	.8399
		S9	1.5128	.9458			
		S10	1.8488	.9813			
		S27	5.3000	.8449			
		S28	.6428	1.0075			

SPIKE R6		COWL M5	
STAT XCW/MC= 3.5040		STAT XCW/MC= 3.3270	
S23 .8380	S23 .8380		
R6P1 .9245	R5P1 .8922		
R6P2 .9464	R5P2 .8921		
R6P3 .9583	R5P3 .8963		
R6P4 .9647	R5P4 .9023		
R6P5 .9708	R5P5 .9055		
R6P6 .9698	R5P6 .9192		
R6P7 .9636	R5P7 .9349		
R6P10 .9552	R5P8 .9604		
R6P11 .9313	R5P9 .9688		
	R5P10 .9750		
	R5P11 .9767		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	193	FLIGHT DATE 09/20/79	SPIKE POS. DX/KC	.8582	AMBIENT TEMP	297.2 DEG K	MAX=MIN DIST	.0865
		FLIGHT NO. 0	BYPASS POS. UPEN		AMBIENT PRESS	.9212 ATMOS	K=CIRCUMF.	.4354
START	4142150.003	INTERVAL 1.000	ENG. FACE RECOV	.9218	ENGINE M/M*	.6330	K=RADIAL	.1470
STOP	4143119.998	ENG CUM RPM 5863.	ENG. FACE MACH NO	.3497	COWL M/M*	.4025	K=DELTA	.0880
			COWL LIP RECOV	.9555	ADDITIVE M/M*	.2305	K=A	.2349
			MACH AT COWL LIP	.2453				

SPIKE K1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC= .0728	STAT XCW/KC= .0700	36 DEG HAKE	198 DEG HAKE		
S2 .9480	S14 .8846	A36 .4198	A198 .9416		
R1P1 .9986	K3P1 .8833	H36 .4061	B198 .9389		
R1P2 .9997	K3P2 .8825	C36 .8488	C198 .9365		
R1P3 .9994	K3P3 .8830	D36 .8946	D198 .9031		
R1P4 .9999	K3P4 .8826	E36 .8889	E198 .8831		
R1P5 .9995	K3P5 .8827	90 DEG HAKE	252 DEG HAKE		
K1P6 .9999	K3P6 .8832	A90 .4628	A252 .9336		
K1P7 1.0000	K3P7 .9993	H90 .9553	H252 .9258		
R1P8 1.0000	K3P8 .9218	C90 .4367	C252 .9138		
R1P9 .9982	K3P9 .9743	D90 .9226	D252 .9052		
	K3P10 .9944	E90 .9119	E252 .8987		
	K3P11 1.0021	144 DEG HAKE	324 DEG HAKE		
	K3P12 .9955	A144 .9576	A324 .9268		
	K3P13 1.0028	H144 .9470	H324 .9357		
	K3P14 1.0024	D144 .9204	C324 .9310		
	K3P15 1.0027	C144 .9156	D324 .9229		
	K3P16 1.0024	E144 .9107	E324 .9093		

SPIKE K2		COWL K4		STATIC PRESSURES			
STAT XCW/KC= 1.4678	STAT XCW/KC= 1.5380			SPIKE		COWL	
S9 .9339	S20 .9160	TAP	XCW/KC	P/PO	IAP	XCW/RL	P/PO
R2P1 .9749	K4P1 .9449	S1 .0762	.4851	S14 .0340	.8846		
R2P2 .9881	K4P2 .9543	S2 .0728	.4480	S15 .1860	.8791		
R2P3 .9789	K4P3 .9567	S11 .0728	.4466	S16 .4150	.8939		
R2P4 .9654	K4P4 .9578	S12 .0728	.9473	S17 .8470	.9275		
R2P5 .9563	K4P5 .9594	S13 .0728	.9475	S18 1.1740	.9357		
	K4P6 .9601	S3 .1408	.9208	S19 1.4590	.9358		
	K4P7 .9622	S4 .4068	.8873	S20 1.5400	.9160		
	K4P8 .9636	S5 .0428	.9122	S21 1.8270	.9322		
	K4P9 .9658	S6 .8848	.9279	S22 2.7840	.7952		
	K4P10 .9678	S7 1.0178	.9319	S23 3.2980	.8191		
	K4P11 .9676	S8 1.1448	.9334	S26 5.2890	.8215		
	K4P12 .9645	S9 1.5128	.9339				
		S10 1.8488	.9710				
		S27 5.3000	.8279				
		S28 .6428	.9992				

SPIKE K6		COWL K5	
STAT XCW/KC= 3.5040	STAT XCW/KC= 3.3270		
S23 .8191	S23 .8191		
K6P1 .9213	K5P1 .8804		
K6P2 .9470	K5P2 .8837		
K6P3 .9508	K5P3 .8876		
K6P4 .9599	K5P4 .8894		
K6P5 .9647	K5P5 .8964		
K6P8 .9579	K5P6 .9053		
K6P9 .9503	K5P7 .9257		
K6P10 .9384	K5P8 .9467		
K6P11 .9137	K5P9 .9603		
	K5P10 .9669		
	K5P11 .9648		

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	194	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.8407	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.0927
		FLIGHT NU. 0	BYPASS POS. OPEN		AMBIENT PRESS	.9212 ATMOS	K=CIRCUMF.	.4031
START	4:44:50.000	INTERVAL 1.000	ENG. FALC RECOV	.9143	ENGINE M/M*	.6632	K=RADIAL	.1416
STOP	4:45:19.997	ENG CON RPM 6100.	ENG. FALC MACH NO	.4311	COWL M/M*	.4179		
			COWL LIP RECOV	.9501	ADDITIVE M/M*	.2453	K=DELTA	.0954
			MACH AT COWL LIP	.2570			K=A	.2370

SPIKE R1		COWL W3		STAT XCM/RC= 5.4850	
STAT XCM/RC=	.0903	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9422	S14	.8726	A36	.9088 A198
R1P1	.9991	H3P1	.8702	H36	.8481 H198
R1P2	.9944	H3P2	.8701	C36	.8887 C198
R1P3	.9971	H3P3	.8705	D36	.8855 D198
R1P4	.9967	H3P4	.8705	E36	.8782 E198
R1P5	.9998	H3P5	.8703	90 DEG HAKE	252 DEG HAKE
R1P6	.9994	H3P6	.8706	A90	.9586 A252
R1P7	1.0001	H3P7	.9937	B90	.9514 B252
R1P8	.9996	H3P8	.9060	C90	.9291 C252
R1P9	.9982	H3P9	.9655	D90	.9155 D252
		H3P10	.9964	E90	.9054 E252
		H3P11	1.0027	144 DEG HAKE	324 DEG HAKE
		H3P12	.9948	A144	.9467 A324
		H3P13	1.0038	B144	.9360 B324
		H3P14	1.0041	D144	.9156 D324
		H3P15	1.0044	C144	.9116 C324
		H3P16	1.0041	E144	.9096 E324

SPIKE R2		COWL W4		STATIC PRESSURES			
STAT XCM/RC=	1.4853	STAT XCM/RC=	1.5389	SPIKE		COWL	
S9	.9262	S20	.9061	XCM/RC	P/PO	XCM/RC	P/PO
R2P1	.9716	H4P1	.9468	S1	.0587 .9838	S14	.0340 .8726
R2P2	.9844	H4P2	.9497	S2	.0903 .9422	S15	.1860 .8665
R2P3	.9762	H4P3	.9524	S11	.0903 .9408	S16	.4150 .8820
R2P4	.9628	H4P4	.9526	S12	.0903 .9405	S17	.8470 .9189
R2P5	.9519	H4P5	.9555	S13	.0903 .9426	S18	1.1740 .9279
		H4P6	.9557	S3	.1583 .9137	S19	1.4590 .9295
		H4P7	.9578	S4	.4243 .8741	S20	1.5400 .9061
		H4P8	.9585	S5	.6603 .9030	S21	1.8270 .9247
		H4P9	.9606	S6	.4073 .9206	S22	2.7840 .7708
		H4P10	.9631	S7	1.0353 .9247	S23	3.2980 .7981
		H4P11	.9654	S8	1.1673 .9267	S26	5.2890 .7992
		H4P12	.9652	S9	1.5303 .9262		
				S10	1.8663 .9679		
				S27	5.3000 .8078		
				S28	.6603 .9987		

SPIKE W6		COWL W5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7981	S23	.7981
R6P1	.9092	H5P1	.8663
R6P2	.9384	H5P2	.8659
R6P3	.9457	H5P3	.8775
R6P4	.9532	H5P4	.8794
R6P5	.9591	H5P5	.8855
R6P6	.9519	H5P6	.8970
R6P7	.9440	H5P7	.9173
R6P10	.9253	H5P8	.9409
R6P11	.9960	H5P9	.9500
		H5P10	.9565
		H5P11	.9598

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	196	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.8582	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.1164
		FLIGHT NO.	0		AMBIENT PRESS	.9211 ATMOS	K=CIRCUMF.	.3328
START	4:48:43.000	INTERVAL	1.000	ENG. FACE RECOV	.9016	ENGINE M/M*	K=RADIAL	.1496
STOP	4:48:58.664	ENG CUR RPM	6434.	ENG. FACE MACH NO	.4741	COWL M/M*	K=DELTA	.0838
				COWL LIP RECOV	.9342	ADDITIVE M/M*	K=A	.2333
				MACH AT COWL LIP	.2503			

SPIKE R1		COWL R3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.0728	STAT XCM/RC=	.0700	36 DEG RAKE	198 DEG RAKE
S2	.9353	S14	.8534	A36	.8482 A198
R1P1	.0000	R3P1	.8524	H36	.8826 H198
R1P2	1.0000	R3P2	.8521	C36	.8715 C198
R1P3	1.0004	R3P3	.8519	D36	.8670 D198
R1P4	1.0003	R3P4	.8508	E36	.8640 E198
R1P5	.9925	R3P5	.8513	90 DEG RAKE	252 DEG RAKE
R1P6	1.0000	R3P6	.8513	A90	.9508 A252
R1P7	1.0001	R3P7	1.0002	H90	.9417 H252
R1P8	.9996	R3P8	.8926	C90	.9124 C252
R1P9	.9971	R3P9	.9614	D90	.8480 D252
		R3P10	.9983	E90	.8631 E252
		R3P11	1.0020	144 DEG RAKE	324 DEG RAKE
		R3P12	.9931	A144	.9477 A324
		R3P13	1.0021	H144	.9304 H324
		R3P14	1.0021	C144	.9034 C324
		R3P15	1.0021	D144	.8445 D324
		R3P16	.0000	E144	.8856 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.4678	STAT XCM/RC=	1.5340				
S9	.9160	S20	.8950	SPIKE		COWL	
R2P1	.9689	R4P1	.9409	XLW/RL	P/PU	IAP	XCM/RC
R2P2	.9842	R4P2	.9442	S1	.0762	S14	.0340
R2P3	.9770	R4P3	.9431	S2	.0726	S15	.1860
R2P4	.9576	R4P4	.9409	S11	.0726	S16	.4150
R2P5	.9446	R4P5	.9476	S12	.0726	S17	.8470
		R4P6	.9442	S13	.0726	S18	1.1740
		R4P7	.9514	S3	.1408	S19	1.4590
		R4P8	.9500	S4	.4068	S20	1.5400
		R4P9	.9523	S5	.6428	S21	1.8270
		R4P10	.9563	S6	.8648	S22	2.7840
		R4P11	.9573	S7	1.0178	S23	3.2980
		R4P12	.9571	S8	1.1448	S26	5.2890
				S9	1.5128		
				S10	1.8488		
				S27	5.3000		
				S28	.6428		

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.7644	S23	.7644
R6P1	.8923	R5P1	.8428
R6P2	.9232	R5P2	.8487
R6P3	.9348	R5P3	.8548
R6P4	.9440	R5P4	.8600
R6P5	.9496	R5P5	.8706
R6P6	.9474	R5P6	.8837
R6P9	.9378	R5P7	.9159
R6P10	.9148	R5P8	.9260
R6P11	.8829	R5P9	.9389
		R5P10	.9516
		R5P11	.9531

		VF-12 INLET NOISE SUPPRESSION STUDY							
RUN	197	FLIGHT DATE	09/20/79	SPIKE POS. DX/KC	.8530	AMBIENT TEMP	298.9 DEG K	MAX-MIN DIST	.1160
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9210 ATMOS	K-CIRCUMF.	.3051
START	4:50:55.002	INTERVAL	1.000	ENG. FALC REC'D	.8469	ENGINE M/M	.7365	K-RADIAL	.1478
STOP	4:55:50.000	ENG LUN RPM	6597.	ENG. FALC MACH NO	.4862	COWL M/M	.4629		
				COWL LIP REC'D	.9354	ADDITIVE M/M	.2735	K-DELTA	.0737
				MACH AT COWL LIP	.2425			K-A	.2215

SPIKE R1		COWL K3		STAT XCW/KC= 5.4830	
STAT XCW/KC=	.0780	STAT XCW/KC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9146	S14	.8483	A36	.9014 A198
K1P1	.9992	K3P1	.8480	H36	.8782 H198
K1P2	.9999	K3P2	.8485	C36	.8694 C198
K1P3	.9935	K3P3	.8483	D36	.8635 D198
K1P4	.9993	K3P4	.8476	E36	.8460 E198
K1P5	1.0000	K3P5	.8470	90 DEG MAKE	252 DEG MAKE
K1P6	1.0000	K3P6	.8466	A90	.9500 A252
K1P7	1.0001	K3P7	.9993	H90	.9401 H252
K1P8	.0000	K3P8	.8915	C90	.9112 C252
K1P9	.9969	K3P9	.9691	D90	.8453 D252
		K3P10	1.0005	E90	.8804 E252
		K3P11	1.0017	144 DEG MAKE	324 DEG MAKE
		K3P12	.9944	A144	.9446 A324
		K3P13	1.0031	H144	.9272 H324
		K3P14	1.0022	D144	.8454 D324
		K3P15	1.0024	C144	.8686 C324
		K3P16	1.0027	E144	.8812 E324

SPIKE R2		COWL K4		STATIC PRESSURES			
STAT XCW/KC=	1.4736	STAT XCW/KC=	1.5386	SPIKE		COWL	
S9	.9128	S20	.8880	XCW/KC	P/PU	IAP	XCW/KC
K2P1	.9695	K4P1	.9335	TAP			P/PU
K2P2	.9840	K4P2	.9400	S1	.9814	S14	.8340
K2P3	.9732	K4P3	.9368	S2	.9146	S15	.1860
K2P4	.9545	K4P4	.9438	S11	.9179	S16	.4150
K2P5	.9442	K4P5	.9475	S12	.9318	S17	.8470
		K4P6	.9486	S13	.9326	S18	1.1740
		K4P7	.9442	S3	.8968	S19	1.4590
		K4P8	.9504	S4	.8526	S20	1.5400
		K4P9	.9507	S5	.8855	S21	1.8270
		K4P10	.9527	S6	.9065	S22	2.7840
		K4P11	.9574	S7	.9106	S23	3.2980
		K4P12	.9608	S8	.9135	S26	5.2890
				S9	.9128		.7559
				S10	.9602		
				S27	.7673		
				S28	.9448		

SPIKE R6		COWL K5	
STAT XCW/KC=	3.5040	STAT XCW/KC=	3.3270
S23	.7552	S23	.7552
K6P1	.8874	K5P1	.8384
K6P2	.9128	K5P2	.8457
K6P3	.9258	K5P3	.8470
K6P4	.9421	K5P4	.8523
K6P5	.9504	K5P5	.8545
K6P6	.9541	K5P6	.8763
K6P9	.9338	K5P7	.9044
K6P10	.9174	K5P8	.9288
K6P11	.8855	K5P9	.9510
		K5P10	.9534
		K5P11	.9547

YF-12 INLET NOISE SUPPRESSION STUDY

HUN	200	FLIGHT DATE 09/20/79	SPIKE POS. DX/KC	.4599	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0621
		FLIGHT NO. 0	HYPASS POS.	OPEN	AMBIENT PRESS	.9211 ATMUS	K-CIRCUMF.	.6344
START	5: 5120.001	INTERVAL 1.000	ENG. FACE RECOV	.9573	ENGINE M/M*	.6690	K-RADIAL	.1759
STOP	5: 5145.437	ENG CLK RPM 4678.	ENG. FACE MACH NO	.2948	COWL M/M*	.3309		
			COWL LIP RECOV	.9782	ADDITIVE M/M*	.3381	K-DELTA	.1082
			MACH AT COWL LIP	.1552			K-A	.2762

SPIKE R1		COWL R3		STAT XCW/KC= 5.4650	
STAT XCW/KC= .4711		STAT XCW/KC= .0700		36 DEG HAKE	198 DEG HAKE
S2	.9632	S14	.9605	A36	.9582 A198
R1P1	1.0010	R3P1	.9597	R36	.9528 H198
R1P2	1.0010	R3P2	.9596	C36	.9424 C198
R1P3	1.0011	R3P3	.9594	D36	.9374 D198
R1P4	1.0010	R3P4	.9593	E36	.9307 E198
R1P5	1.0096	R3P5	.9594	90 DEG HAKE	252 DEG HAKE
R1P6	1.0121	R3P6	.9602	A90	.9402 A252
R1P7	1.0128	R3P7	1.0011	H90	.9845 H252
R1P8	1.0010	R3P8	.9618	C90	.9608 C252
R1P9	.9973	R3P9	.9715	D90	.9580 D252
		R3P10	.9843	E90	.9503 E252
		R3P11	1.0040	144 DEG HAKE	324 DEG HAKE
		R3P12	1.0010	A144	.9808 A324
		R3P13	1.0051	H144	.9742 H324
		R3P14	1.0045	D144	.9582 D324
		R3P15	1.0056	C144	.9531 C324
		R3P16	1.0050	E144	.9480 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/KC= 1.8661		STAT XCW/KC= 1.5380		SPIKE		COWL	
S9	.9628	S20	.9319	XCW/KC	P/PO	XCW/KC	P/PO
R2P1	.9910	R4P1	.9906	S1	.9614 S14	.0340	.9605
R2P2	.9975	R4P2	.9950	S2	.9632 S15	.1860	.9545
R2P3	.9940	R4P3	.9954	S11	.9598 S16	.4150	.9637
R2P4	.9920	R4P4	1.0007	S12	.9601 S17	.8470	.9734
R2P5	.9836	R4P5	.9932	S13	.9622 S18	1.1740	.9701
		R4P6	.9955	S3	.9637 S19	1.4590	.9654
		R4P7	.9969	S4	.9929 S20	1.5400	.9379
		R4P8	.9975	S5	1.0411 .9856 S21	1.8270	.9609
		R4P9	.9976	S6	1.2881 .9608 S22	2.7840	.8858
		R4P10	.9986	S7	1.4161 .9645 S23	3.2980	.8995
		R4P11	.9990	S8	1.5481 .9608 S26	5.2890	.8987
		R4P12	.9992	S9	1.9111 .9628		
				S10	2.2471 .9843		
				S27	5.3000 .9020		
				S28	1.0411 1.0158		

SPIKE R6		COWL R5	
STAT XCW/KC= 3.5040		STAT XCW/KC= 3.3270	
S23	.8995	S23	.8945
R6P1	.9372	R5P1	.9283
R6P2	.9497	R5P2	.9292
R6P3	.9533	R5P3	.9331
R6P4	.9576	R5P4	.9325
R6P5	.9747	R5P5	.9306
R6P6	.9834	R5P6	.9424
R6P7	.9817	R5P7	.9606
R6P10	.9718	R5P8	.9751
R6P11	.9544	R5P9	.9847
		R5P10	.9950
		R5P11	.9950

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	201	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.4502	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.0778
		FLIGHT NO. 0	HYPASS POS. OPEN		AMBIENT PRESS	.9210 ATMOS	K-CIRCUMF.	.5993
START	51 71 .000	INTERVAL 1.000	ENG. FACE REC'D	.9467	ENGINE M/M	.6925	K-RADIAL	.2037
STOP	51 7130.000	ENG CON MPH 5000.	ENG. FACE MACH NO	.3266	COWL M/M	.3455		
			COWL LIP REC'D	.9707	ADDITIVE M/M	.3470	K-DELTA	.1146
			MACH AT COWL LIP	.1636			K-A	.3183

SPIKE R1		COWL M3		STAT XLM/MC= 5.4830	
STAT XCM/RC= .4808	STAT XCM/MC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .9540	S14 .9515	A36 .4511	A198 .9700		
R1P1 1.0011	R3P1 .9505	R36 .4423	B198 .9623		
R1P2 1.0008	R3P2 .9502	C36 .4287	C198 .9549		
R1P3 .9988	R3P3 .9501	D36 .9140	D198 .9285		
R1P4 1.0006	R3P4 .9502	E36 .4143	E198 .9200		
R1P5 1.0014	R3P5 .9505	90 DEG MAKE	252 DEG MAKE		
R1P6 .9980	R3P6 .9502	A90 .9874	A252 .9669		
R1P7 1.0020	R3P7 .9986	B90 .9774	B252 .9503		
R1P8 1.0014	R3P8 .9507	C90 .4567	C252 .9367		
R1P9 .9947	R3P9 .9600	D90 .9462	D252 .9270		
	R3P10 .4742	E90 .9364	E252 .9177		
	R3P11 1.0007	144 DEG MAKE	324 DEG MAKE		
	R3P12 .9995	A144 .4725	A324 .9511		
	R3P13 1.0045	B144 .4607	B324 .9550		
	R3P14 1.0046	D144 .4523	D324 .9519		
	R3P15 1.0045	C144 .4437	C324 .9451		
	R3P16 1.0045	E144 .4350	E324 .9338		

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCM/RC= 1.4758	STAT XCM/MC= 1.5380			SPIKE	COWL		
S9 .9533	S20 .4252	TAP	XCM/MC	P/PU	IAP	XCM/RC	P/PO
R2P1 .9853	R4P1 .4868	S1 .3318	.4514	S14 .0340	.9515		
R2P2 .9968	R4P2 .9916	S2 .4808	.9540	S15 .1860	.9461		
R2P3 .9871	R4P3 .9927	S11 .4808	.9503	S16 .4150	.9557		
R2P4 .9935	R4P4 .9930	S12 .4808	.9523	S17 .8470	.9672		
R2P5 .9787	R4P5 .9930	S13 .4808	.9541	S18 1.1740	.9639		
	R4P6 .9943	S3 .5468	.9678	S19 1.4590	.9580		
	R4P7 .9950	S4 .8148	.4617	S20 1.5400	.9252		
	R4P8 .9956	S5 1.0508	.4627	S21 1.8270	.9528		
	R4P9 .9956	S6 1.2478	.9547	S22 2.7840	.8460		
	R4P10 .9966	S7 1.4258	.9569	S23 3.2980	.8761		
	R4P11 .9975	S8 1.5578	.9532	S26 5.2890	.8738		
	R4P12 .9975	S9 1.4208	.9533				
		S10 2.2568	.9797				
		S27 5.3060	.8822				
		S28 1.0508	1.0001				

SPIKE R6		COWL M5	
STAT XCM/RC= 3.5040	STAT XCM/MC= 3.3270		
S23 .8761	S23 .8761		
R6P1 .9232	R5P1 .9088		
R6P2 .9368	R5P2 .9137		
R6P3 .9412	R5P3 .9127		
R6P4 .9487	R5P4 .9114		
R6P5 .9536	R5P5 .9146		
R6P6 .9780	R5P6 .9309		
R6P7 .9774	R5P7 .9455		
R6P8 .9671	R5P8 .9732		
R6P9 .9446	R5P9 .9848		
	R5P10 .9918		
	R5P11 .9931		

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	202	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.4545	AMBIENT TEMP	300.0 DEG K	MAX-MIN DIST	.1056
		FLIGHT NO.	0				K=CIRCUMF.	.5012
START	5: 8145.000	INTERVAL	1.000	BYPASS POS.	OPEN	AMBIENT PRESS	K=RADIAL	.2227
STOP	5: 9115.000	ENG COW RPM	5601.	ENG. FALC RECOV	.9301	ENGINE M/M*		
				ENG. FALC MACH NO	.3959	COWL M/M*		
				COWL LIP RECOV	.9660	ADDITIVE M/M*		
				MACH AT COWL LIP	.2115		K=DELTA	.1069
							K=A	.3296

SPIKE R1		COWL R3		STAT XCM/RC= 5.4830	
STAT XCM/RC=	.4765	STAT XCM/RC=	.0700	36 DEG HAKE	198 DEG HAKE
S2	.9375	S14	.9352	A36	.9325 A198
R1P1	1.0019	R3P1	.9306	H36	.9191 H198
R1P2	1.0001	R3P2	.9354	C36	.9086 C198
R1P3	1.0019	R3P3	.9354	D36	.8935 D198
R1P4	1.0005	R3P4	.9346	E36	.8860 E198
R1P5	1.0506	R3P5	1.0003	90 DEG HAKE	252 DEG HAKE
R1P6	1.0010	R3P6	.9352	A90	.9842 A252
R1P7	1.0017	R3P7	1.0001	H90	.9687 H252
R1P8	1.0008	R3P8	.9372	C90	.9431 C252
R1P9	.9954	R3P9	.9469	D90	.9252 D252
		R3P10	.9723	E90	.9164 E252
		R3P11	.9982	144 DEG HAKE	324 DEG HAKE
		R3P12	.9970	A144	.9737 A324
		R3P13	1.0042	H144	.9556 H324
		R3P14	1.0039	D144	.9299 D324
		R3P15	1.0042	C144	.9208 C324
		R3P16	1.0040	E144	.9116 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.8715	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9404	S20	.9002	ALW/RC	P/PO	TAP	ALW/RC P/PO
R2P1	.9844	R4P1	.9822	S1	.9275	S14	.9369 .0340 .9352
R2P2	.9954	R4P2	.9885	S2	.9765	S15	.9375 .1860 .9307
R2P3	.9909	R4P3	.9891	S11	.9765	S16	.9382 .4150 .9423
R2P4	.9848	R4P4	.9910	S12	.9765	S17	.9376 .8470 .9571
R2P5	.9708	R4P5	.9907	S13	.9765	S18	.9407 .11740 .9528
		R4P6	.9918	S3	.9445	S19	.9449 .14590 .9455
		R4P7	.9918	S4	.9105	S20	.9504 .15400 .9002
		R4P8	.9916	S5	1.0465	S21	.9509 .18270 .9387
		R4P9	.9928	S6	1.2435	S22	.9486 .27840 .7972
		R4P10	.9943	S7	1.4215	S23	.9452 .32980 .8329
		R4P11	.9951	S8	1.5535	S26	.0000 .52890 .8308
		R4P12	.9974	S9	1.9165		.9404
				S10	2.2525		.9721
				S27	5.5000		.8359
				S28	1.0465		.9999

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8329	S23	.8329
R6P1	.9012	R5P1	.8826
R6P2	.9180	R5P2	.8809
R6P3	.9234	R5P3	.8870
R6P4	.9322	R5P4	.8948
R6P5	.9380	R5P5	.8982
R6P6	.9703	R5P6	.9063
R6P7	.9683	R5P7	.9329
R6P10	.9585	R5P8	.9573
R6P11	.9298	R5P9	.9744
		R5P10	.9864
		R5P11	.9485

YF-12 INLET NOISE SUPPRESSION STUDY							
RUN	203	FLIGHT DATE	09/20/79	SPIKE POS. DX/HC	.4502	AMBIENT TEMP	299.4 DEG K
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9179 ATMOS
START	5:10:50.002	INTERVAL	1.000	ENG. FACE RECOV	.9187	ENGINE M/M*	.8222
STOP	5:12:30.000	ENG CUM RPM	6081.	ENG. FACE MACH NO	.4264	COWL M/M*	.3880
				COWL LIP RECOV	.9521	ADDITIVE M/M*	.4333
				MACH AT COWL LIP	.1887		
						K-DELTA	.1456
						K-A	.3264

SPIKE R1		COWL R3		STAT XCM/HC= 5.4830	
STAT XCM/RC=	.4808	STAT XCM/RC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9319	S14	.9256	A36	.9196 A198
R1P1	.9700	K3P1	.9254	B36	.9139 H198
R1P2	1.0014	K3P2	.9257	C36	.8948 C198
R1P3	.9761	K3P3	.9250	D36	.8822 D198
R1P4	.9875	K3P4	.9256	E36	.8703 E198
R1P5	.9763	K3P5	.9262	90 DEG MAKE	252 DEG MAKE
R1P6	1.0039	K3P6	.9254	A90	.9805 A252
R1P7	.9946	K3P7	.9884	H90	.9607 H252
R1P8	.9662	K3P8	.9275	C90	.9339 C252
R1P9	.9481	K3P9	.9406	D90	.9166 D252
		K3P10	.9703	E90	.9034 E252
		K3P11	1.0028	144 DEG MAKE	324 DEG MAKE
		K3P12	1.0000	A144	.9762 A324
		K3P13	1.0081	H144	.9527 H324
		K3P14	1.0085	D144	.9183 D324
		K3P15	1.0138	C144	.9191 C324
		K3P16	.0000	E144	.9198 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCM/RC=	1.8758	STAT XCM/RC=	1.5380	SPIKE		COWL	
S9	.9253	S20	.8817	XCM/HL	P/PU	IAP	XCM/RL
R2P1	.9848	K4P1	.9814	TAP			P/PU
R2P2	.9984	K4P2	.9885	S1	.9318	S14	.0340
R2P3	.9653	K4P3	.9901	S2	.4808	S15	.1860
R2P4	.9645	K4P4	.9814	S11	.4808	S16	.4150
R2P5	.9746	K4P5	.9889	S12	.4808	S17	.8470
		K4P6	.9923	S13	.4808	S18	1.1740
		K4P7	.9949	S3	.5488	S19	1.4590
		K4P8	.9970	S4	.8146	S20	1.5400
		K4P9	.9974	S5	1.0508	S21	1.8270
		K4P10	.9974	S6	1.2478	S22	2.7840
		K4P11	.9992	S7	1.4258	S23	3.2980
		K4P12	.9994	S8	1.5576	S26	5.2690
				S9	1.9208		.8050
				S10	2.2500		
				S27	5.3000		
				S28	1.0506	1.0036	

SPIKE R6		COWL R5	
STAT XCM/RC=	3.5040	STAT XCM/RC=	3.3270
S23	.8004	S23	.8004
R6P1	.8751	R5P1	.8652
H6P2	.8941	R5P2	.8623
H6P3	.9031	K5P3	.8653
H6P4	.9293	K5P4	.8727
H6P5	.8939	K5P5	.8830
H6P8	.9754	K5P6	.8980
H6P9	.9543	K5P7	.9246
R6P10	.9492	K5P8	.9580
H6P11	.9199	K5P9	.9786
		K5P10	.9873
		K5P11	.9874

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	204	FLIGHT DATE 09/20/79	SPK PUS, DX/RC	.4585	AMBIENT TEMP	299.4 DEG K	MAX-MIN DIST	.1373
		FLIGHT NO. 0	BYPASS PUS,	OPEN	AMBIENT PRESS	.9184 ATMOS	K-CIRCUMF.	.3949
START	5:12:30.000	INTERVAL 1.000	ENG. FACE REC'D	.9139	ENGINE M/M	.8606	K-RADIAL	.2104
STOP	5:14: 1.002	ENG LOK RPM 6249.	ENG. FACE MACH NO	.4509	COWL M/M	.3880		
			COWL LIP REC'D	.9406	ADDITIVE M/M	.4727	K-DELTA	.1163
			MACH AT COWL LIP	.1893			K-A	.3267

SPIKE R1		COWL R3		STAT XCW/RC= 5.4830	
STAT XCW/RC=	.4725	STAT XCW/RC=	.0700	30 DEG HAKE	198 DEG HAKE
S2	.9261	S14	.9204	A36	.9120 A198 .9544
R1P1	1.0027	R3P1	.9205	H36	.8691 B198 .9417
R1P2	1.0027	R3P2	.9206	C36	.8614 C198 .9231
R1P3	1.0027	R3P3	.9198	D36	.8605 D198 .8849
R1P4	1.0055	R3P4	.9192	E36	.8504 E198 .8621
R1P5	1.0041	R3P5	.9182	90 DEG HAKE	252 DEG HAKE
R1P6	1.0025	R3P6	.9196	A90	.9419 A252 .9416
R1P7	1.0027	R3P7	1.0029	H90	.9611 B252 .9195
R1P8	1.0030	R3P8	.9209	C90	.9250 C252 .9034
R1P9	.9942	R3P9	.9308	D90	.9080 D252 .8878
		R3P10	.9605	E90	.8931 E252 .8752
		R3P11	1.0020	144 DEG HAKE	324 DEG HAKE
		R3P12	.9999	A144	.9148 A324 .9229
		R3P13	1.0071	H144	.9504 B324 .9365
		R3P14	.0000	D144	.9161 C324 .9238
		R3P15	1.0102	C144	.9060 D324 .9100
		R3P16	1.0065	E144	.8954 E324 .8942

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC=	1.8675	STAT XCW/RC=	1.5380	SPIKE		COWL	
S9	.9255	S20	.8760	XCW/RC	P/PU	IAP	XCW/RC P/PU
R2P1	.9741	R4P1	.9773	S1	.3235 .9247	S14	.0340 .9204
R2P2	.9937	R4P2	.9864	S2	.4125 .9261	S15	.1860 .9143
R2P3	.9909	R4P3	.9840	S11	.4125 .9257	S16	.4150 .9274
R2P4	.9841	R4P4	.9845	S12	.4725 .0000	S17	.8470 .9482
R2P5	.9626	R4P5	.9844	S13	.4725 .9263	S18	1.1740 .9428
		R4P6	.9843	S3	.5405 .9321	S19	1.4590 .9344
		R4P7	.9906	S4	.8065 .9401	S20	1.5400 .8760
		R4P8	.9902	S5	1.0425 .9406	S21	1.8270 .9245
		R4P9	.9938	S6	1.2895 .9375	S22	2.7840 .7866
		R4P10	.9933	S7	1.4175 .9316	S23	3.2980 .7862
		R4P11	.9976	S8	1.5495 .9249	S26	5.2890 .7882
		R4P12	.9967	S9	1.9125 .9255		
				S10	2.2485 .9653		
				S27	5.5000 .7974		
				S28	1.0425 1.0026		

SPIKE R6		COWL R5	
STAT XCW/RC=	3.5040	STAT XCW/RC=	3.3270
S23	.7862	S23	.7862
R6P1	.8695	R5P1	.8549
R6P2	.8916	R5P2	.8605
R6P3	.9053	R5P3	.8638
R6P4	.9107	R5P4	.8634
R6P5	.9206	R5P5	.8720
R6P6	.9637	R5P6	.8871
R6P9	.9603	R5P7	.9182
R6P10	.9449	R5P8	.9571
R6P11	.9074	R5P9	.9752
		R5P10	.9818
		R5P11	.9852

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	205	FLIGHT DATE 09/20/79	SPIKE POS. DX/RC	.4502	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	1.1644
START	5:14:11.002	FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9075 ATMOS	K-CIRCUMF.	1.5215
STOP	5:14:13.569	INTERVAL 1.000	ENG. FACE RECUV	.8604	ENGINE M/M	.8508	K-RADIAL	.4191
		ENG LOW RPM 6457.	ENG. FACE MACH NO	1.0902	COWL M/M	.4528	K-DELTA	1.2723
			COWL LIP RECUV	.9598	ADDITIVE M/M	.3979	K-A	1.6913
			MACH AT COWL LIP	.2146				

SPIKE R1		COWL R3		STAT XCW/MCH 5.4830	
STAT XCW/RC	.4808	STAT XCW/RC	.0706	36 DEG HAKE	198 DEG HAKE
S2	.9308	S14	.9253	A36	.0000 A198
R1P1	1.0140	R3P1	.0000	H36	.0000 B198
R1P2	1.0140	R3P2	.9252	C36	.8810 C198
R1P3	1.0155	R3P3	.9246	D36	.8674 D198
R1P4	1.0153	R3P4	.9246	E36	.8532 E198
R1P5	1.0152	R3P5	.9249	90 DEG HAKE	252 DEG HAKE
R1P6	1.0150	R3P6	.9243	A90	1.0018 A252
R1P7	1.0150	R3P7	1.0146	H90	.9694 B252
R1P8	1.0152	R3P8	.9256	C90	.9334 C252
R1P9	1.0065	R3P9	.9368	D90	.9073 D252
		R3P10	.9684	E90	.8450 E252
		R3P11	1.0095	144 DEG HAKE	324 DEG HAKE
		R3P12	1.0095	A144	1.0018 A324
		R3P13	1.0187	H144	.9614 B324
		R3P14	1.0181	D144	.9274 C324
		R3P15	1.0187	C144	.9163 D324
		R3P16	1.0187	E144	.9047 E324

SPIKE R2		COWL R4		STATIC PRESSURES			
STAT XCW/RC	1.8758	STAT XCW/RC	1.5380	SPIKE		COWL	
S9	.9320	S20	.8757	XCW/RC	P/P0	XCW/RC	P/P0
R2P1	.9927	R4P1	.9908	TAP		TAP	
R2P2	1.0078	R4P2	.9975	S1	.3318 .9291	S14	.0340 .9253
R2P3	1.0021	R4P3	1.0005	S2	.4808 .9308	S15	.1860 .9192
R2P4	.9929	R4P4	.9984	S11	.4808 .9307	S16	.4150 .9352
R2P5	.9692	R4P5	.0000	S12	.4808 .0000	S17	.8470 .9589
		R4P6	.0000	S13	.4808 .9322	S18	1.1740 .9505
		R4P7	.0000	S3	.5488 .9385	S19	1.4590 .9401
		R4P8	1.0035	S4	.8148 .9477	S20	1.5400 .8757
		R4P9	1.0050	S5	1.0508 .9488	S21	1.8270 .9307
		R4P10	1.0054	S6	1.2978 .9430	S22	2.7840 .7327
		R4P11	1.0089	S7	1.4258 .9382	S23	3.2980 .7770
		R4P12	1.0103	S8	1.5578 .9303	S26	5.2890 .0000

SPIKE R6		COWL R5	
STAT XCW/RC	3.5046	STAT XCW/RC	3.3276
S23	.7770	S23	.7770
R6P1	.8657	R5P1	.8515
R6P2	.9033	R5P2	.8617
R6P3	.9051	R5P3	.8677
R6P4	.9246	R5P4	.8660
R6P5	.9335	R5P5	.8601
R6P8	.0000	R5P6	.8407
R6P9	.0000	R5P7	.9249
R6P10	.9529	R5P8	.9645
R6P11	.9104	R5P9	.9645
		R5P10	.9906
		R5P11	.9940

YF-12 INLET NOISE SUPPRESSION STUDY

RUN	206	FLIGHT DATE 09/20/79	SPIKE POS. DX/MC	.4737	AMBIENT TEMP	300.6 DEG K	MAX-MIN DIST	1.1631
		FLIGHT NO. 0	BYPASS POS.	OPEN	AMBIENT PRESS	.9215 ATMOS	K-CIRCUMF.	1.2584
START	5:16:1.001	INTERVAL 1.000	ENG. FACE RECUM	.8342	ENGINE M/M	.8623	K-RADIAL	.6777
STOP	5:17:110.000	ENG CUM RPM 6658.	ENG. FACE MACH NO	.4571	CUMUL M/M	.0017		
			CUMUL LIP RECUM	.0000	ADDITIVE M/M	.8606	K-DELTA	1.0308
			MACH AT CUMUL LIP	#####			K-A	1.7085

SPIKE R1		CUMUL R3		STAT XCM/MC= 5.4830	
STAT XCM/MC= .4573	STAT XCM/MC= .0700	36 DEG MAKE	198 DEG MAKE		
S2 .0000	S14 .0000	A36 .9003	A198 .9409		
R1P1 .9985	K3P1 .9054	H36 .8790	H198 .9318		
R1P2 .9983	K3P2 .9070	C36 .8607	C198 .9160		
R1P3 .9994	K3P3 .9073	D36 .8413	D198 .8637		
R1P4 .9995	K3P4 .9074	E36 .8324	E198 .8326		
R1P5 .9999	K3P5 .9069	90 DEG MAKE	252 DEG MAKE		
R1P6 1.0001	K3P6 .9074	A90 .9701	A252 .9466		
R1P7 .9987	K3P7 .9997	H90 .9516	H252 .9024		
R1P8 .9998	K3P8 .0000	C90 .9043	C252 .8907		
R1P9 .0000	K3P9 .0000	D90 .8844	D252 .8716		
	K3P10 .9702	E90 .8701	E252 .8632		
	R3P11 .0000	144 DEG MAKE	324 DEG MAKE		
	K3P12 .0000	A144 .9734	A324 .9106		
	K3P13 1.0032	H144 .9374	H324 .9150		
	K3P14 1.0035	D144 .8476	D324 .0000		
	K3P15 1.0034	E144 .8450	E324 .8976		
	R3P16 1.0031	E144 .8423	E324 .0000		

SPIKE R2		CUMUL R4		STATIL PRESSURES			
STAT XCM/MC= 1.8523	STAT XCM/MC= 1.5380	SPIKE	XCM/MC	P/PU	IAP	CUMUL	P/PU
S9 .9135	S20 .8540	TAP				XCM/MC	
R2P1 .0000	H4P1 .9723	S1 .3083	.0000	S14 .0340	.0000		
R2P2 .0000	H4P2 .9804	S2 .4573	.0000	S15 .1860	.9015		
R2P3 .9861	H4P3 .9824	S11 .4573	.9109	S16 .4150	.9192		
R2P4 .9778	H4P4 .9827	S12 .4573	.9153	S17 .8470	.9387		
R2P5 .9556	H4P5 .9853	S13 .4573	.9154	S18 1.1740	.9266		
	H4P6 .9804	S3 .5253	.9215	S19 1.4590	.9226		
	H4P7 .9802	S4 .7913	.9291	S20 1.5400	.8590		
	H4P8 .9885	S5 1.0273	.9304	S21 1.8270	.9117		
	H4P9 .9887	S6 1.2743	.9244	S22 2.7840	.7044		
	H4P10 .9885	S7 1.4023	.0000	S23 3.2980	.7514		
	H4P11 .9921	S8 1.5343	.9120	S26 5.2890	.7552		
		S9 1.8473	.9135				
		S10 2.2333	.0000				
		S27 5.3000	.7600				
		S28 1.0243	.9945				

SPIKE R6		CUMUL R5	
STAT XCM/MC= 3.5040	STAT XCM/MC= 3.3270		
S23 .7514	S23 .7514		
H6P1 .8386	K5P1 .8242		
H6P2 .8600	K5P2 .8326		
H6P3 .8366	K5P3 .8397		
H6P4 .8985	K5P4 .8412		
H6P5 .9098	K5P5 .8503		
H6P6 .9675	K5P6 .8723		
H6P9 .9558	K5P7 .9106		
H6P10 .9343	K5P8 .9527		
H6P11 .8907	K5P9 .9762		
	K5P10 .0000		
	K5P11 .9744		

YF-12 INLET NOISE SUPPRESSION STUDY									
RUN	20A	FLIGHT DATE	09/20/79	SPIKE PUS. DX/KC	.0847	AMBIENT TEMP	300.6 DEG K	MAX-MIN DIST	1.1166
		FLIGHT NO.	0	HYPASS PUS.	OPEN	AMBIENT PRESS	9168 ATMUS	K-CIRCUMF.	3.0353
START	5:20:20.000	INTERVAL	1.000	ENG. FALF RECOV	.8888	ENGINE M/M*	.8391	K-RADIAL	1.4830
STOP	5:22:12.000	ENG LOM RPM	4275.	ENG. FALF MACH NO	.2440	CUAL M/M*	.2464		
				LOML LIP RECOV	.9452	ADDITIVE M/M*	.5927	K-DELTA	2.4289
				MACH AT LUAL LIP	.0783			K-A	3.9122

SPIKE R1		CWL R3		STAT XLW/KC = 5.4H30					
STAT	XLW/KC = .8463	STAT	XLW/KC = .0700	56	DEG	MAKE	198	DEG	MAKE
S2	.9903	S14	.9916	A36		.9467	A198		.9687
H1P1	1.0064	H3P1	.9949	H36		.9447	H198		.9534
H1P2	1.0064	H3P2	.9916	C36		.9415	C198		.9603
H1P3	1.0064	H3P3	.9916	D36		.9335	D198		.9397
H1P4	1.0060	H3P4	.9915	E36		.9273	E198		.9305
H1P5	1.0062	H3P5	.9915	90	DEG	MAKE	252	DEG	MAKE
H1P6	1.0062	H3P6	.9915	A90		.9424	A252		.9712
H1P7	1.0062	H3P7	1.0058	H90		.9388	H252		.9521
R1P8	1.0059	H3P8	.9911	C90		.9732	C252		.9462
H1P9	1.0054	H3P9	.9913	D90		.9582	D252		.9406
		H3P10	.9932	E90		.9513	E252		.9364
		H3P11	1.0001	144	DEG	MAKE	324	DEG	MAKE
		H3P12	1.0037	A144		.9689	A324		.9520
		H3P13	1.0105	H144		.9613	H324		.9517
		H3P14	.0000	D144		.9447	C324		.9494
		H3P15	1.0167	C144		.9434	D324		.0000
		H3P16	1.0107	E144		.9371	E324		.0000

SPIKE K2		COWL K4		STATIC PRESSURES					
STAT	XCM/RC# 2.2413	STAT	XCM/RC# 1.5380						
S9	.9690	S20	.9344	SPIKE				COWL	
K2P1	1.0007	K4P1	1.0047	TAP	XCM/RC	P/PO	IAP	XCM/RC	P/PO
K2P2	1.0025	K4P2	1.0074	S1	.8473	.4897	S14	.0340	.9916
K2P3	.9972	K4P3	1.0077	S2	.8463	.4903	S15	.1860	.0000
K2P4	.0000	K4P4	1.0079	S11	.8463	.4922	S16	.4150	.9895
K2P5	.9728	K4P5	1.0047	S12	.8463	.9840	S17	.8470	.9936
		K4P6	1.0081	S13	.8463	.9844	S18	1.1740	.9857
		K4P7	1.0077	S3	.9143	.4846	S19	1.4590	.9736
		K4P8	1.0116	S4	1.1803	.9818	S20	1.5400	.9399
		K4P9	1.0046	S5	1.4163	.9726	S21	1.8270	.9670
		K4P10	.0000	S6	1.0053	.4674	S22	2.7840	.4726
		K4P11	1.0042	S7	1.7413	.4670	S23	3.2980	.9601
		K4P12	1.0045	S8	1.4233	.4671	S26	5.2890	.9098

SPIKE K6		CURL K5		S10	2.0223	.9612
STAT	XLW/HZ 3.5040	STAT	XLW/HZ 3.3270	S27	5.3000	.9040
S23	.9061	S23	.9001	S28	1.4163	1.0051
K6P1	.9431	K5P1	.9453			
K6P2	.9483	K5P2	.9326			
K6P3	.9494	K5P3	.9331			
K6P4	.9496	K5P4	.9344			
K6P5	.9564	K5P5	.9447			
K6P8	.9560	K5P6	.9517			
K6P9	.9482	K5P7	.9024			
K6P10	.9427	K5P8	.9833			
K6P11	.9306	K5P9	.9400			
		K5P10	1.0011			
		K5P11	.0000			

VF-12 INLET NOISE SUPPRESSION STUDY

RUN	211	FLIGHT DATE	04/20/79	SPIKE POS. DX/MC	.0868	AMBIENT TEMP	301.1 DEG K	MAX-MIN DIST	1.2314
		FLIGHT NO.	0	BYPASS POS.	OPEN	AMBIENT PRESS	.9309 ATMOS	K-CIRCUMF.	2.4002
START	5:25:30.002	INTERVAL	1.000	ENG. FALC RECOV	.7600	ENGINE M/M*	.8799	K-RADIAL	2.7872
STOP	5:27:15.000	ENG LUN RPM	5622.	ENG. FALC MACH NO	.9752	COWL M/M*	.4087		
				COWL LIP RECOV	.9705	ADDITIVE M/M*	.4712	K-DELTA	2.0077
				MACH AT COWL LIP	.1341			K-A	4.7949

SPIKE R1		COWL M3		STAT XCW/MC= 5.4830	
STAT XCW/MC=	.8442	STAT XCW/MC=	.0700	36 DEG MAKE	198 DEG MAKE
S2	.9590	S14	.9517	A36	.0000 A198 .0000
K1P1	.9876	K3P1	.9560	M36	.8593 M198 .8984
K1P2	.9896	K3P2	.9568	C36	.8450 C198 .8840
K1P3	.9898	K3P3	.9517	D36	.8393 D198 .8544
K1P4	.9898	K3P4	.9543	E36	.0000 E198 .8295
K1P5	.9908	K3P5	.9540	90 DEG MAKE	252 DEG MAKE
K1P6	1.0001	K3P6	.9580	A90	.0000 A252 .9359
K1P7	.9954	K3P7	.9953	M90	.9359 M252 .8885
K1P8	.9946	K3P8	.9587	C90	.9032 C252 .8680
K1P9	.9917	K3P9	.9589	D90	.8432 D252 .8553
		K3P10	.9625	E90	.8668 E252 .8455
		K3P11	.9732	144 DEG MAKE	324 DEG MAKE
		K3P12	.9813	A144	.9287 A324 .8813
		K3P13	.9943	E144	.9108 M324 .8845
		K3P14	.9928	D144	.8760 C324 .8762
		K3P15	.9982	E144	.8612 D324 .8731
		K3P16	.9929	E144	.8466 E324 .8704

SPIKE R2		COWL M4		STATIC PRESSURES			
STAT XCW/MC=	2.2592	STAT XCW/MC=	1.5380	SPIKE	P/PO	TAP	COWL
S9	.9191	S20	.8604	XCW/MC	P/PO	TAP	XCW/MC
K2P1	.9784	K4P1	.9829	S1	.8952	S14	.0340
K2P2	.9846	K4P2	.9885	S2	.8442	S15	.1860
K2P3	.9741	K4P3	.0000	S11	.8442	S16	.4150
K2P4	.9445	K4P4	.0000	S12	.8442	S17	.8470
K2P5	.9215	K4P5	.0000	S13	.8442	S18	1.1740
		K4P6	.0000	S3	.9122	S19	1.4590
		K4P7	.9847	S4	1.1782	S20	1.5400
		K4P8	1.0202	S5	1.4142	S21	1.8270
		K4P9	.9919	S6	1.6612	S22	2.7840
		K4P10	.0000	S7	1.7842	S23	3.2980
		K4P11	.0000	S8	1.9212	S26	5.2490
		K4P12	.9947	S9	2.2842		.0000
				S10	2.6202		.8868
				S27	5.3000		.7953
				S28	1.4142		.9691

SPIKE R6		COWL M5	
STAT XCW/MC=	3.5040	STAT XCW/MC=	3.3276
S23	.7842	S23	.7842
K6P1	.8646	K5P1	.8405
K6P2	.8781	K5P2	.8421
K6P3	.8845	K5P3	.8383
K6P4	.0000	K5P4	.8455
K6P5	.0000	K5P5	.8548
K6P8	.0000	K5P6	.8646
K6P9	.8797	K5P7	.8468
K6P10	.8617	K5P8	.9353
K6P11	.8391	K5P9	.9511
		K5P10	.9642
		K5P11	.9657

NOTE: .0000 indicates invalid data

APPENDIX B

TABULATIONS OF ACOUSTIC DATA FOR YF-12 AIRCRAFT TESTS

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APPENDIX B

TABULATIONS OF ACOUSTIC DATA FOR YF-12 AIRCRAFT TESTS

This appendix contains one-third octave band SPL tabulations of the acoustic data that was reduced for the YF-12 aircraft tests. Table B-1 shows the runs that were reduced relative to the entire test matrix.

The measurements from microphones M1, M2, M3, and M11 were unreliable in a number of test runs. These data were not presented but have been retained on tape for further evaluation, if the need arises.

On certain runs, the data from particular microphones were unreliable and also were not presented.

Any final corrections to the data have been noted at the bottom of the corresponding page.

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TABLE B-1. RUN NUMBERS FOR REDUCED YF-12 ACOUSTIC DATA

ENGINE SPEED (RPM)	SPIKE FORWARD		SPIKE MIDWAY		SPIKE AFT	
	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED	BYPASS OPEN	BYPASS CLOSED
IDLE	35, 145, <u>187</u>	7, 93	55	70	124	63
4000	36	8, 94				64
4200	37, 146, <u>188</u>	9, 95, 157	115, <u>199</u>	71	(<u>125</u>), 173, <u>208</u>	65, 181
4300					126	
4400	38	10, 96			(<u>127</u>)	66, 182
4500					128	
4600	39, 147, 189	11, 97	116, 200	72	(<u>129</u>)	183
4700					130	
4800	40	12, 98			(<u>131</u>)	184
4900					132	
5000	(<u>41</u>), <u>87</u> , 142, (<u>148</u>), 190	(<u>13</u>), <u>99</u> , (<u>158</u>)	(56), 166, <u>201</u>	(73)	(<u>133</u>), 174, <u>210</u>	(69), (<u>185</u>)
5200	42	15, 100		74		
5400	43, 149, 191	14, 101			(<u>134</u>)	
5500	143	16, 102		76		
5600	44, 150, 192	(17), <u>103</u> , (<u>159</u>)	(57), 167, 202	77	(<u>175</u>), 211	
5700	144	18, 104			(<u>135</u>)	
5800	45, 151, 193	19, 105	118	79		
5900	46	20, 106		80		
6000	(<u>47</u>), <u>88</u> , (<u>152</u>), 194	(<u>21</u>), <u>107</u> , (<u>160</u>)	(58), 168, 203	(81)	(<u>136</u>), 176	
6100	48	22, 108	119	82		
6200	(<u>49</u>), <u>89</u> , (<u>153</u>)	(<u>23</u>), <u>109</u> , (<u>161</u>)	(59), 169, 204	(83)	(<u>137</u>), 177	
6300	50	24, 110	120, 121	84		
6400	(<u>51</u>), <u>90</u> , (<u>154</u>), 196	(<u>25</u>), <u>111</u> , (<u>162</u>)	(60), 170	(85)	(<u>138</u>), 178	
6500	52	26, 112	122			
6600	(<u>53</u>), <u>91</u> , (<u>155</u>), 197	(<u>27</u>), <u>113</u> , (<u>163</u>)	(61), 171, 206		(<u>139</u>), 140	
SWEEP	29, 54, 92, 156, 198, 34	6, 28, 114, 164	62, 123, 172, 207	86	141, 180, 216	186

- Notes:
1. Runs 145-216, spike bleed taped
 2. Runs 187-216, bypass louvers removed
 3. Run numbers (xx) microphone data reduced, xx Kulite data reduced

YF-12 INLET NOISE SUPPRESSION
 18137 DEC 05, 1979 TEST 9358
 YF-12 INLET NOISE SUPPRESSION
 RUN 13
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 5000 RPM

RUN	17	18	19	20	21	22	23	24
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	109.1	129.6	131.5	127.3	129.4	128.7	117.5	122.5
63	110.1	130.4	132.3	128.9	130.7	132.7	119.2	123.0
80	111.1	131.9	133.6	130.7	132.1	133.1	120.1	124.2
100	113.6	133.3	135.1	134.7	134.4	134.5	121.9	125.5
125	115.9	135.2	136.4	136.6	136.2	137.9	122.2	126.6
160	121.3	136.9	137.8	140.1	137.4	137.6	123.2	127.5
200	123.1	139.2	139.9	141.3	138.7	136.1	123.4	126.6
250	125.4	141.2	140.9	141.3	139.2	135.7	125.4	127.7
315	125.2	144.1	142.0	139.7	138.6	133.9	127.7	127.6
400	123.3	146.4	142.5	138.0	138.0	132.9	129.7	127.5
500	121.5	146.4	141.6	136.4	136.8	132.4	133.7	127.7
630	119.7	143.3	137.8	136.3	136.6	132.9	136.5	128.7
800	120.9	139.6	133.0	137.2	140.8	133.1	134.3	130.4
1K	120.6	138.3	129.3	137.9	137.6	132.2	129.8	128.0
1.25K	120.7	138.8	127.0	137.1	134.6	132.2	129.4	126.4
1.6K	121.4	136.6	126.6	135.5	134.0	132.2	132.3	128.2
2K	123.4	135.9	128.0	135.3	135.2	133.2	131.8	131.2
2.5K	133.5	140.0	134.6	139.3	139.6	141.4	138.7	140.2
3.15K	132.4	141.5	137.1	141.4	142.0	143.0	141.7	142.2
4K	126.8	138.0	132.8	136.8	135.9	136.1	137.7	135.6
5K	126.7	136.8	130.6	135.8	134.4	136.4	137.3	135.8
6.3K	127.9	137.5	132.1	136.6	135.7	138.9	139.8	138.5
8K	126.5	136.5	131.3	135.5	134.2	136.9	138.4	138.7
10K	125.9	135.5	130.5	135.4	133.6	136.0	138.2	138.5
63	114.9	135.5	137.3	133.9	135.7	136.7	123.9	128.1
125	122.9	140.1	141.4	142.5	141.0	141.7	127.2	131.4
250	129.4	146.7	145.8	145.6	143.6	140.1	130.6	132.1
500	126.5	150.4	145.8	141.8	141.9	137.5	138.9	132.8
1K	125.5	143.7	135.2	142.2	143.1	137.3	136.6	133.4
2K	134.2	142.7	136.0	141.9	141.7	142.4	140.3	140.9
4K	134.3	144.0	139.1	143.4	143.5	144.6	144.1	143.8
8K	131.6	141.3	136.1	140.6	139.3	142.2	143.6	143.3
LP-B	139.4	154.0	150.6	151.4	150.6	150.1	148.7	148.2
SIL	131.3	143.4	136.8	142.5	142.8	141.4	140.3	139.4
BJBA	139.4	151.7	146.6	149.4	149.3	149.2	148.7	148.3
PND8	153.8	145.7	161.3	164.6	164.5	164.5	163.0	162.7
*SILP= 0								

YF-12 INLET NOISE SUPPRESSION
14149 DEC 12, 1979 TEST 9477
YF-12 INLET NOISE SUPPRESSION

RUN 13
SPIKE FORWARD
BYPASS DOORS-Closed
5000 RPM

RUN	23	24	25	26	27	28	29	30	31	32
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	79.0	82.5	82.1	82.2	82.4	82.5	84.9	88.3	99.7	63.1
63	79.2	80.7	78.9	78.8	82.0	85.5	85.0	88.1	99.4	61.2
80	81.2	81.5	80.5	80.3	83.6	85.5	84.6	86.9	98.4	62.1
100	85.4	83.5	82.8	82.7	84.6	85.2	84.0	86.7	97.4	62.6
125	86.2	84.5	85.2	85.8	86.4	86.0	86.5	88.1	97.2	63.0
160	87.5	87.6	87.9	87.8	89.4	89.1	88.6	89.4	97.5	65.2
200	85.6	87.6	87.1	86.8	86.9	88.1	86.9	88.1	96.2	67.5
250	86.5	86.4	87.0	87.3	88.3	87.4	86.1	87.0	98.0	68.5
315	85.7	85.7	85.7	86.4	86.6	86.3	86.2	85.8	98.0	65.9
400	85.8	86.3	86.7	86.8	87.1	87.7	85.6	85.9	97.3	67.1
500	89.0	89.6	89.1	88.6	88.7	88.5	88.8	88.8	99.7	66.4
630	90.1	90.9	90.3	90.0	91.5	91.4	91.3	91.0	101.1	67.3
800	91.5	91.8	90.7	91.1	90.9	91.8	90.9	89.9	100.2	65.0
1K	90.6	90.5	90.4	90.5	90.9	91.7	90.7	89.3	99.7	63.9
1.25K	89.9	89.5	88.9	90.1	90.1	91.9	90.1	88.8	98.4	61.8
1.6K	91.5	90.7	90.3	91.1	90.9	92.4	89.7	88.3	97.8	60.6
2K	93.9	92.5	92.0	91.4	91.0	92.2	90.2	88.5	97.5	60.7
2.5K	104.2	102.1	100.8	99.3	97.5	97.0	92.4	89.0	97.2	61.2
3.15K	101.5	100.9	100.1	99.8	98.2	98.4	94.0	89.4	96.2	60.5
4K	94.5	94.5	93.7	92.8	92.3	92.9	89.3	85.7	93.8	58.8
5K	94.2	94.4	94.0	92.4	91.4	92.0	87.1	84.0	92.2	57.7
6.3K	92.8	92.8	91.6	91.0	90.2	91.1	86.9	84.1	92.4	58.0
8K	92.5	91.5	91.1	90.6	89.0	90.2	89.3	87.6	96.8	66.6
10K	88.3	89.1	88.1	87.0	85.9	86.9	83.3	80.8	89.9	59.6
63	84.7	86.4	85.5	85.4	87.5	89.5	89.6	92.6	104.0	67.0
125	91.2	90.4	90.6	90.7	92.0	91.9	91.5	93.0	102.1	68.6
250	90.7	91.4	91.4	91.9	92.1	92.1	91.2	91.9	102.2	72.2
500	93.4	94.1	93.7	93.4	94.3	94.3	93.9	93.8	104.4	71.8
1K	95.5	95.8	94.8	95.3	95.4	96.8	95.4	94.1	104.3	68.5
2K	104.8	102.8	101.7	100.5	99.1	99.2	95.7	93.4	102.3	65.6
4K	102.9	102.5	101.8	101.1	99.9	100.2	95.9	91.8	99.0	63.9
8K	96.4	96.2	95.2	94.6	93.5	94.8	91.9	89.8	94.8	67.9
LP-8	108.0	107.0	106.2	105.5	104.8	105.2	102.7	101.7	111.6	78.0
SIL	101.0	100.3	99.4	99.0	98.1	98.7	95.6	93.1	101.9	66.0
80BA	108.7	107.6	106.7	105.9	104.8	105.2	102.1	99.8	109.1	74.7
PND8	122.8	121.6	120.9	120.4	119.5	119.9	116.7	114.1	122.6	88.0
STOP 0										

	23	24	25	26	27	28	29	30	31	32
FREQ (Hz)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR10 F10 135° DEG
50	80.3	82.5	82.1	82.8	83.1	83.9	85.0	88.1	90.1	98.1
63	81.8	84.7	83.4	83.1	84.5	89.1	87.5	91.1	93.2	97.6
80	83.3	84.5	83.4	83.7	87.0	87.7	87.3	90.0	92.4	97.6
100	87.4	86.0	84.3	85.7	87.6	88.6	88.1	90.5	91.5	98.5
125	87.8	86.2	86.4	87.4	87.9	87.4	89.4	90.8	91.4	98.8
160	89.1	88.9	88.3	88.5	89.0	89.2	90.6	90.5	90.4	99.8
200	87.5	88.9	88.6	88.3	89.1	89.8	88.9	89.8	90.8	101.4
250	89.6	89.5	90.2	90.5	90.8	90.1	88.6	89.5	91.7	102.9
315	89.2	89.1	88.4	89.3	89.4	88.9	87.9	88.6	90.6	100.0
400	88.4	88.8	88.9	88.7	89.0	88.1	86.8	87.2	89.4	100.6
500	90.4	91.2	90.2	89.7	89.1	88.7	86.8	85.9	88.1	97.5
630	91.5	92.0	90.6	90.3	91.5	90.7	89.6	87.4	88.8	97.4
800	91.6	91.5	90.2	90.1	89.6	88.6	86.7	85.7	88.4	94.4
1K	91.9	90.9	89.0	89.2	88.6	88.1	86.6	85.8	88.6	92.9
1.25K	93.7	92.4	90.7	90.5	89.9	89.8	87.7	87.1	89.8	97.3
1.6K	94.6	92.8	92.0	91.3	90.6	91.0	86.7	84.7	86.4	92.0
2K	94.5	92.8	92.0	91.0	90.2	90.5	86.9	84.1	85.2	88.8
2.5K	100.4	97.7	96.5	95.0	93.2	92.9	88.8	85.3	84.6	88.9
3.15K	102.2	100.6	99.4	98.9	97.2	97.4	93.1	88.5	85.8	89.5
4K	96.8	96.9	96.1	94.9	94.9	95.2	91.6	87.0	83.8	89.1
5K	93.2	93.2	92.9	91.5	90.8	91.4	87.0	84.1	82.3	88.1
6.3K	91.7	91.5	90.2	89.5	88.7	89.6	85.3	83.4	82.0	88.3
8K	91.9	91.1	90.6	89.8	88.7	89.8	88.2	87.4	87.9	95.2
10K	87.4	88.3	87.4	86.1	85.8	87.2	84.5	84.2	88.3	95.6
63	87.5	88.8	87.8	88.0	90.6	92.2	91.5	94.7	94.9	102.5
125	92.9	92.0	91.4	92.2	93.0	93.3	94.3	95.4	95.9	103.8
250	93.6	93.9	93.9	94.2	94.6	94.4	93.3	94.1	95.8	106.3
500	95.1	95.6	94.7	94.4	94.8	93.7	92.7	91.6	93.6	103.6
1K	97.3	96.4	94.8	94.7	94.1	93.7	91.8	91.0	93.8	100.0
2K	102.2	99.9	98.9	97.6	96.3	96.4	92.3	89.5	90.2	94.9
4K	103.7	102.7	101.7	100.9	99.8	100.1	96.0	91.7	89.0	93.7
8K	98.5	95.3	94.4	93.6	92.7	93.4	91.1	90.1	90.5	98.8
LP-N	107.6	106.5	105.8	104.9	104.4	104.5	102.2	101.8	103.1	111.2
SIL	101.1	99.7	98.4	97.7	96.8	96.7	93.4	90.7	91.0	96.2
BDBA	108.0	106.6	105.6	104.8	103.8	103.9	100.5	98.0	98.7	106.0
PNCB	122.7	121.5	120.5	119.9	119.0	119.2	115.9	113.4	112.9	119.4
*S18P. 0										

YF-12 INLET NOISE SUPPRESSION
 15136 DEC 12, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 21
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6000 RPM

RUN	34	45	36	37	38	39	40	41	42	43
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	80.0	81.9	81.6	82.5	83.0	83.6	84.3	87.3		
63	84.2	85.5	84.1	83.8	86.6	89.3	88.0	91.5		
80	83.5	84.8	84.0	83.9	86.9	87.8	87.3	90.6		
100	87.1	86.1	84.5	86.3	87.8	88.2	87.6	91.0		
125	88.6	87.2	87.3	88.3	88.4	88.5	90.4	91.9		
160	89.2	89.1	88.6	88.7	89.3	89.9	91.1	91.8		
200	88.5	90.0	89.2	89.6	90.1	91.1	90.3	91.6		
250	90.5	90.4	91.3	91.6	91.5	90.9	89.5	90.8		
315	90.3	90.4	89.4	90.6	90.6	89.7	89.2	90.1		
400	89.6	89.8	90.3	89.9	89.9	89.0	87.6	88.6		
500	90.8	91.6	90.9	90.5	89.5	88.7	87.2	87.2		
630	92.1	92.5	91.2	91.1	90.4	90.2	88.2	88.4		
800	92.1	92.2	90.9	90.5	89.8	89.5	87.5	87.8		
1K	92.7	92.3	90.5	90.4	89.2	88.7	87.4	87.5		
1.25K	94.6	93.5	92.1	92.2	90.9	91.3	89.0	89.4		
1.6K	95.3	93.6	92.8	92.3	91.1	91.8	88.0	87.1		
2K	95.2	93.8	93.0	92.0	90.9	91.2	88.5	86.1		
2.5K	100.2	97.7	96.5	95.2	93.1	92.7	89.1	86.2		
3.15K	103.5	101.7	100.7	100.0	97.9	97.9	94.0	89.7		
4K	99.6	99.8	99.0	97.5	97.3	97.3	94.0	89.8		
5K	95.3	95.2	95.3	93.7	92.8	93.0	89.3	86.5		
6.3K	92.6	92.4	91.0	90.2	89.2	90.0	85.7	84.0		
8K	92.8	91.7	91.4	90.7	89.0	89.9	88.2	87.2		
10K	88.1	88.9	88.0	87.0	86.2	87.2	85.2	85.2		
63	87.7	89.1	88.2	88.2	90.6	92.2	91.6	94.9		
125	93.2	92.4	91.9	92.7	93.3	93.7	94.7	96.3		
250	94.6	95.0	94.8	95.4	95.5	95.4	94.5	95.6		
500	95.7	96.2	95.6	95.3	94.7	94.1	92.4	92.9		
1K	98.1	97.5	96.0	95.9	94.8	94.7	92.8	93.1		
2K	102.4	100.3	99.2	98.2	96.6	96.7	93.3	91.2		
4K	105.4	104.4	103.6	102.5	101.3	101.3	97.7	93.7		
8K	96.4	96.0	95.1	94.4	93.1	94.0	91.3	90.4		
LP-8	108.6	107.6	106.8	106.1	105.2	105.3	103.1	103.0		
SIL	101.9	100.7	99.6	98.9	97.6	97.6	94.6	92.7		
8DBA	109.0	107.8	106.9	106.0	104.7	104.8	101.6	99.6		
PNdB	123.8	122.6	121.7	121.1	119.7	119.8	116.8	114.7		
*STOP	0									

YF-12 INLET NOISE SUPPRESSION
 19119 DEC 05, 1979 TEST 9358
 YF-12 INLET NOISE SUPPRESSION
 RUN 21
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6000 RPM

BVN	28	29	30	31	32	34	35
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	105.6	130.9	132.4	129.0	130.7	118.5	118.6
63	107.8	132.1	133.4	130.7	131.8	120.3	119.9
80	108.1	133.5	134.4	132.4	133.7	121.6	121.3
100	111.3	134.9	135.4	135.6	135.8	123.3	124.8
125	116.7	136.5	136.7	138.6	137.7	124.9	128.9
160	120.7	138.1	138.0	141.0	139.1	125.9	129.2
200	125.2	140.8	140.0	144.5	141.6	127.6	131.0
250	128.8	143.2	143.1	145.2	142.8	129.1	131.6
315	129.1	145.0	144.5	143.5	142.4	131.9	133.6
400	126.7	147.5	146.7	141.3	141.8	133.4	133.1
500	124.3	148.0	146.3	139.9	140.7	138.5	133.6
630	123.1	145.7	143.5	139.7	140.6	142.2	138.0
800	122.6	142.6	137.6	140.6	144.2	139.6	137.3
1K	122.4	141.7	132.5	142.0	140.9	134.8	135.0
1.25K	125.4	142.5	130.5	141.6	139.0	134.9	134.7
1.6K	125.9	140.7	130.9	140.3	138.4	137.8	135.7
2K	125.5	139.9	131.5	139.8	139.5	136.7	137.5
2.5K	129.9	140.3	132.4	139.8	138.9	139.7	140.8
3.15K	133.0	143.4	135.4	142.7	142.4	149.0	152.2
4K	133.2	144.2	138.4	144.2	144.7	147.7	148.1
5K	130.5	143.0	137.9	143.1	141.8	145.0	143.5
6.3K	128.6	141.1	136.2	140.5	139.2	145.0	143.7
8K	128.2	139.6	134.5	140.1	138.4	144.2	143.9
10K	127.1	138.6	133.7	139.5	137.2	143.3	142.7
63	112.1	137.1	138.3	135.7	137.0	125.1	124.8
125	122.5	141.5	141.6	143.7	142.5	129.6	132.8
250	132.8	148.1	147.7	149.3	147.0	134.7	136.9
500	129.7	151.9	150.5	146.2	145.8	144.1	140.3
1K	128.5	147.0	139.4	146.2	146.7	141.8	140.6
2K	132.3	145.1	136.4	144.7	143.7	143.0	143.3
4K	137.1	148.6	142.2	148.4	147.9	152.3	154.0
8K	132.8	144.7	139.7	144.8	143.1	149.0	148.2
LP-8	141.0	156.3	153.6	155.0	154.2	155.0	155.7
SIL	132.6	146.9	139.3	146.5	146.1	149.7	146.0
ODBA	140.7	154.6	150.1	153.4	152.9	155.2	156.3
PNDB	155.2	168.8	163.7	168.3	167.8	169.3	170.9
*STOPS 0							

YF-12 INLET NOISE SUPPRESSION
 16105 DEC 12, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 23
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6200 RPM

RUN	46	47	48	49	50	51	52	53	55
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 10 F10 135. DEG
50	80.6	82.6	82.8	83.9	84.4	84.9	85.5	88.7	77.8
63	85.2	86.6	85.2	84.9	87.5	90.2	88.7	92.2	78.0
80	84.6	86.0	85.3	85.1	87.8	88.7	88.3	91.6	78.0
100	88.7	87.6	85.8	87.4	88.7	89.2	88.6	92.7	79.0
125	89.7	88.2	88.5	89.5	89.7	89.4	91.9	93.3	79.8
160	89.7	89.2	88.8	89.1	89.5	90.4	91.8	92.3	80.8
200	89.1	90.8	89.8	90.4	91.0	92.1	91.5	92.9	81.1
250	91.1	90.9	91.6	91.9	92.3	91.5	90.3	91.8	82.5
315	90.9	91.2	90.2	91.4	91.3	90.6	90.6	91.4	79.8
400	90.3	90.8	91.2	90.9	90.7	90.2	88.8	89.8	80.1
500	91.0	91.8	91.5	90.8	90.3	89.5	88.3	88.5	76.7
630	91.3	92.1	91.1	91.1	90.8	90.2	88.3	88.6	76.0
800	91.9	92.2	91.1	90.9	90.3	89.6	88.3	89.0	75.1
1K	93.5	93.0	91.4	91.1	90.0	89.8	88.0	88.5	74.8
1.25K	95.4	94.4	93.1	92.8	91.7	91.8	89.8	90.7	78.0
1.6K	95.0	94.2	93.0	92.8	92.3	92.8	90.0	90.5	78.3
2K	95.0	93.6	92.9	92.0	91.3	91.8	89.0	87.2	72.9
2.5K	97.3	95.0	94.3	93.4	92.0	91.9	88.9	87.0	71.4
3.15K	99.3	97.7	97.0	96.5	94.7	95.1	91.1	88.0	70.5
4K	97.0	97.0	96.3	94.7	94.7	94.8	91.6	88.2	70.3
5K	93.8	93.8	93.8	92.3	91.5	91.8	88.4	86.3	70.5
6.3K	91.2	90.8	89.8	88.9	88.1	88.8	84.8	83.7	67.7
8K	91.1	90.1	90.2	89.5	88.2	89.0	87.5	86.5	70.5
10K	86.6	87.3	87.0	86.0	85.6	86.7	84.9	84.5	73.0
63	88.6	90.2	89.3	89.4	91.6	93.2	92.5	95.8	82.7
125	94.2	93.2	92.7	93.5	94.1	94.5	95.8	97.5	84.7
250	95.2	95.7	95.4	96.1	96.4	96.2	95.6	96.9	86.0
500	95.7	96.4	96.0	95.7	95.4	94.7	93.3	93.8	82.8
1K	98.6	98.0	96.7	96.4	95.5	95.3	93.6	94.3	81.0
2K	100.7	99.1	98.2	97.5	96.6	97.0	94.1	93.3	80.0
4K	102.0	101.2	100.7	99.6	98.6	98.9	95.4	92.3	75.2
8K	94.8	94.4	94.0	93.1	92.2	93.1	90.7	89.8	75.7
LP-8	106.9	106.2	105.5	105.1	104.6	104.8	103.2	103.8	91.4
SIL	100.5	99.5	98.6	97.9	96.9	97.0	94.3	93.3	78.7
DOBA	106.8	105.9	105.2	104.4	103.5	103.7	101.0	100.1	86.7
PNDB	121.3	120.4	119.7	119.2	118.2	118.5	115.9	114.6	100.4
*STP = 0									

YF-12 INLET NOISE SUPPRESSION
 19125 DEC 05, 1979 TEST 935a
 YF-12 INLET NOISE SUPPRESSION
 RUN 23
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6200 RPM

RUN	39	40	41	42	43	45	46
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	106.2	131.1	132.6	129.5	131.3	118.4	118.9
63	107.8	132.2	133.3	131.3	132.5	120.0	120.8
80	108.6	133.2	134.4	133.1	133.9	121.6	122.2
100	110.8	134.4	135.4	134.0	136.0	123.4	125.4
125	116.7	135.8	136.7	138.9	137.8	125.5	129.0
160	120.1	137.5	137.6	140.9	139.2	126.4	130.1
200	125.7	140.2	139.5	145.2	142.0	128.1	131.8
250	129.2	143.0	143.0	146.0	143.4	130.2	132.9
315	129.5	144.6	144.3	144.4	143.2	132.7	134.6
400	127.2	147.1	147.0	142.0	142.6	134.1	134.0
500	124.7	147.6	147.0	140.7	141.3	139.4	134.8
630	122.9	145.6	144.2	140.6	141.2	142.4	137.9
800	122.5	142.8	138.4	141.4	144.9	140.5	139.9
1K	122.6	141.8	133.0	142.6	141.6	136.3	136.6
1.25K	126.0	142.6	131.1	142.7	139.7	136.3	139.0
1.6K	126.2	140.9	131.6	141.2	139.1	139.0	138.0
2K	125.8	140.2	131.9	140.7	140.2	138.5	138.8
2.5K	128.3	140.2	132.6	140.5	139.4	140.4	142.2
3.15K	129.6	141.3	133.3	141.4	140.6	145.8	144.9
4K	130.5	142.6	135.7	143.4	142.9	148.0	147.6
5K	129.2	141.7	136.3	142.8	141.5	145.4	144.3
6.3K	128.0	140.4	135.8	140.7	139.3	144.6	143.0
8K	127.6	138.9	134.4	140.0	137.9	144.3	143.5
10K	126.7	137.8	133.4	139.4	136.9	143.2	142.1
63	112.4	137.0	138.3	136.3	137.5	125.0	125.6
125	122.0	140.9	141.5	143.8	142.6	130.1	133.4
250	133.2	147.8	147.5	150.0	147.7	135.5	138.0
500	130.1	151.4	151.0	146.9	146.5	144.6	140.7
1K	128.8	147.2	140.1	147.1	147.4	143.0	143.5
2K	131.7	155.2	136.8	155.6	153.5	144.1	144.8
4K	134.6	146.7	140.1	147.4	146.5	151.4	150.6
8K	132.2	143.9	139.4	144.8	142.9	148.9	147.7
LP-B	140.0	155.8	153.8	155.3	154.4	154.7	153.9
5/L	131.7	145.4	133.0	146.7	146.1	146.2	146.3
8/D8A	139.3	154.0	150.1	153.5	152.7	154.8	154.1
PND8	153.7	167.7	162.9	167.9	167.1	169.0	168.6
STOP	0						

YF-12 INLET NOISE SUPPRESSION
 16136 DEC 12, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 25
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

6400

RUN	57	58	59	60	61	62	63	64	66
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR10 F10 135. DEG
50	82.3	84.1	84.2	85.5	85.9	86.5	87.6	90.5	80.2
63	86.3	87.7	86.6	86.3	88.9	91.0	89.7	93.1	80.6
80	87.3	88.7	88.0	87.7	90.6	91.2	91.3	94.2	80.7
100	89.7	88.4	87.0	88.3	89.7	90.6	90.1	94.4	81.5
125	91.3	89.9	90.1	91.4	91.6	91.3	93.9	95.5	81.8
160	90.7	90.1	89.9	90.4	90.3	91.7	93.2	94.2	83.3
200	90.2	91.3	90.9	91.1	92.4	93.4	92.3	94.1	82.9
250	91.7	91.3	91.7	92.5	93.0	92.2	91.6	93.5	83.2
315	91.7	92.0	91.0	92.0	92.2	91.5	91.3	92.7	80.6
400	91.7	91.9	92.1	91.7	91.5	91.0	90.2	91.0	80.8
500	91.6	92.2	92.1	91.5	90.8	90.3	89.2	90.0	77.8
630	91.5	92.2	91.5	91.8	91.1	90.7	89.4	90.0	77.7
800	92.7	92.5	91.4	91.9	91.2	90.4	89.5	89.8	76.7
1K	94.4	93.6	92.3	91.7	91.1	90.3	90.3	91.1	75.8
1.25K	95.8	94.5	93.2	93.4	92.3	92.3	90.2	91.0	76.6
1.6K	95.1	93.9	93.1	93.7	93.0	93.8	91.5	93.3	80.0
2K	94.8	93.5	92.7	92.0	91.2	92.0	89.3	88.7	75.1
2.5K	94.8	92.9	92.6	92.1	91.0	92.0	88.9	88.1	72.7
3.15K	95.0	93.9	93.4	93.3	91.5	92.0	88.7	87.2	71.3
4K	93.4	93.4	93.0	91.7	91.5	91.7	88.7	87.0	70.6
5K	91.6	91.4	91.5	90.3	89.5	89.9	86.6	85.6	70.6
6.3K	89.8	89.3	88.3	87.8	86.9	87.8	83.5	83.2	68.0
8K	90.0	89.0	88.2	88.9	87.4	88.6	86.4	85.7	69.6
10K	85.7	86.6	86.3	85.7	85.1	86.6	84.1	84.0	71.3
63	90.5	92.0	91.3	91.3	93.6	94.9	94.5	97.6	85.3
125	95.4	94.3	94.0	95.0	95.4	96.0	97.4	99.6	87.1
250	96.0	96.3	96.0	96.7	97.3	97.2	96.5	98.2	87.2
500	96.4	96.9	96.7	96.4	95.9	95.4	94.4	95.1	83.8
1K	99.3	98.4	97.1	97.2	96.3	95.9	94.8	95.5	81.2
2K	99.7	98.2	97.6	97.6	96.6	97.5	94.8	95.5	81.8
4K	98.3	97.8	97.5	96.7	95.7	96.1	92.9	91.4	75.6
8K	93.7	93.2	92.9	92.4	91.4	92.5	89.6	89.2	74.6
LP-8	108.0	105.5	104.9	104.9	104.6	104.9	103.9	105.3	92.9
SIL	99.1	98.1	97.4	97.1	96.2	96.8	94.2	94.1	79.5
80dB	108.3	104.5	103.8	103.6	102.7	103.0	100.9	101.2	87.7
PNDB	119.1	118.4	117.9	117.8	116.9	117.3	115.0	115.2	101.7
*STOP 0									

YF-12 INLET NOISE SUPPRESSION
 19131 DEC 05, 1979 TEST 9358
 YF-12 INLET NOISE SUPPRESSION
 RUN 25
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

RUN	50	51	52	53	54	56	57
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	105.6	131.3	132.3	130.3	131.0	118.3	118.6
63	107.8	132.1	133.5	131.7	132.5	120.3	120.6
80	108.3	133.8	134.2	133.4	133.8	122.0	122.1
100	111.0	135.1	135.2	136.1	135.9	123.7	125.0
125	116.1	136.2	136.6	138.8	137.8	125.9	129.2
160	119.7	137.6	137.6	141.1	139.2	127.0	130.5
200	125.8	140.4	139.5	145.9	142.4	128.8	132.0
250	129.2	143.2	142.9	146.5	143.8	130.7	133.1
315	130.0	144.7	144.6	144.9	143.8	133.4	135.1
400	128.0	147.2	147.2	142.7	143.1	134.6	134.9
500	124.8	147.8	147.3	141.2	141.5	130.2	136.0
630	123.2	146.1	144.8	141.0	141.7	142.7	138.2
800	122.4	143.2	139.1	142.0	145.3	140.5	141.0
1K	123.5	142.2	133.7	143.1	142.0	137.0	145.2
1.25K	126.9	143.2	131.5	143.0	140.4	136.2	141.8
1.6K	126.4	141.5	131.9	141.8	139.7	139.4	138.4
2K	125.7	140.8	132.4	141.3	140.2	139.8	139.3
2.5K	127.4	140.4	132.8	141.0	139.8	140.3	140.7
3.15K	126.9	140.2	132.4	141.0	139.4	143.7	144.2
4K	127.5	140.4	133.1	141.5	140.1	146.3	146.5
5K	127.4	139.9	133.8	141.4	139.4	144.1	143.1
6.3K	127.2	139.3	134.1	140.2	138.3	143.9	142.2
8K	127.1	138.3	133.6	139.6	137.1	143.7	142.1
10K	126.6	137.5	133.0	139.1	136.1	142.6	141.2
63	112.2	137.3	138.2	136.8	137.4	126.2	125.4
125	121.7	141.2	141.3	143.9	142.6	130.5	133.6
250	133.5	147.8	147.6	150.6	148.1	136.1	138.5
500	130.6	151.9	151.3	146.5	147.0	145.1	141.4
1K	129.5	147.7	140.8	147.5	147.8	143.1	147.9
2K	131.3	145.7	137.1	146.2	144.9	144.6	145.3
4K	132.1	145.0	137.9	146.1	144.5	149.6	149.6
8K	131.7	143.2	138.3	144.4	142.0	148.2	146.6
LP-8	139.5	155.8	153.9	155.5	154.4	153.9	154.0
SIL	131.0	146.1	138.6	146.6	145.7	145.8	147.3
OUBA	138.3	153.9	150.1	153.4	152.5	153.8	154.1
PNOB	152.2	166.8	162.7	167.3	166.0	168.0	168.1
*STOP 2.0							

VF-12 INLET NOISE SUPPRESSION
 17120 DEC 12, '79 TEST 9477
 VF-12 INLET NOISE SUPPRESSION
 RUN 27
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6600 RPM

1600

RUN	68	69	70	71	72	73	74	75	77
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 90. DEG	TR10 F10 135. DEG
50	86.6	88.4	88.3	89.5	89.8	90.4	90.7	93.7	85.1
63	89.6	91.0	89.8	89.5	91.8	93.8	92.8	96.0	86.2
80	94.3	95.8	94.1	93.6	96.4	96.9	97.1	100.0	86.6
100	93.1	92.6	91.2	92.3	93.5	94.4	94.1	98.4	86.8
125	95.8	93.8	94.0	95.5	94.8	95.0	97.6	99.4	87.3
160	96.4	94.5	94.7	94.5	95.2	97.0	97.8	98.5	87.0
200	95.3	95.2	95.2	94.6	96.9	98.0	97.1	99.0	87.6
250	94.0	93.5	93.2	94.5	95.2	95.6	95.4	96.8	87.5
315	93.1	93.9	92.8	94.1	95.0	93.6	93.6	96.5	84.4
400	92.6	92.9	93.4	93.2	92.7	92.8	92.8	94.2	84.2
500	91.8	92.4	92.5	92.4	91.8	91.9	91.7	93.2	81.9
630	91.8	92.7	92.1	92.4	92.1	92.3	91.6	93.2	81.2
800	92.6	93.0	92.2	93.4	92.3	92.2	91.6	93.2	80.0
1K	94.3	94.2	92.7	92.7	92.2	91.8	91.7	92.0	78.1
1.25K	96.0	95.0	93.9	93.7	92.9	93.0	91.7	92.4	77.6
1.6K	95.2	94.1	93.6	93.9	93.5	94.1	92.0	93.6	78.7
2K	94.6	93.5	92.8	92.1	91.6	92.3	90.0	90.2	75.3
2.5K	93.7	92.2	92.2	92.2	90.8	91.4	88.9	89.0	72.9
3.15K	93.0	92.7	92.0	92.0	90.4	91.1	88.6	87.8	71.9
4K	91.8	92.0	91.6	90.0	89.9	90.2	88.0	86.5	70.8
5K	90.5	90.3	90.3	89.1	88.3	88.8	85.6	85.4	70.1
6.3K	89.1	88.7	87.6	87.0	86.2	87.0	82.8	83.2	68.1
8K	89.5	88.8	88.9	88.3	86.9	87.9	85.7	85.0	69.3
10K	85.5	86.7	86.2	85.2	84.6	85.7	82.9	82.8	69.6
63	96.1	97.6	96.3	96.1	98.3	99.3	99.2	102.1	90.8
125	100.1	98.5	98.3	99.0	99.3	100.4	101.6	103.5	91.8
250	99.0	99.0	98.6	99.2	100.5	100.9	100.4	102.3	91.5
500	96.8	97.5	97.5	97.4	97.0	97.1	96.8	98.3	87.4
1K	95.3	98.9	97.8	98.1	97.2	97.1	96.4	97.3	83.4
2K	99.3	98.1	97.7	97.6	96.3	97.5	95.3	96.2	81.1
4K	96.7	96.6	96.1	95.3	94.4	94.9	92.3	91.5	75.8
8K	93.1	92.9	92.5	91.8	90.8	91.7	88.8	88.5	73.8
LP-8	107.1	106.7	106.2	106.3	106.6	107.2	106.9	108.7	97.1
SIL	98.4	97.9	97.2	97.0	96.2	96.5	94.7	95.0	80.1
80BA	104.9	104.4	103.8	103.7	103.1	103.4	101.9	102.8	89.6
PNOB	118.8	118.5	117.9	117.8	117.1	117.7	116.0	116.7	103.4
*STOP 0									

YF-12 INLET NOISE SUPPRESSION
 19138 DEC 05, 1979 TEST 9358
 YF-12 INLET NOISE SUPPRESSION
 RUN 27
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6600 RPM

RUN	61	62	63	64	65	67	68
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 7 K14 O. DEG	TR 8 K18 O. DEG
50	104.8	131.4	132.8	130.3	131.5	118.9	119.2
63	106.9	132.4	133.8	131.3	132.7	120.5	121.0
80	107.9	133.8	134.5	133.6	134.2	122.3	122.4
100	110.7	134.6	135.6	136.3	136.0	124.0	125.9
125	116.0	136.4	136.8	139.0	138.0	126.2	129.6
160	119.4	137.7	137.5	141.4	139.2	127.2	131.0
200	125.9	140.6	139.2	146.2	142.4	128.7	132.1
250	129.1	143.2	143.0	146.7	143.9	131.2	133.8
315	130.1	144.9	144.4	145.1	144.3	133.9	135.8
400	128.0	147.8	147.4	143.3	143.6	134.7	135.3
500	125.0	148.1	147.6	141.7	141.9	140.8	136.3
630	123.1	146.3	145.3	141.3	142.1	143.2	140.2
800	122.5	143.6	139.7	142.4	145.6	141.6	143.8
1K	123.8	142.9	134.0	143.6	142.2	137.1	140.6
1.25K	127.1	142.7	131.8	143.5	140.7	136.8	140.1
1.6K	126.4	142.1	132.3	142.3	140.0	138.2	137.7
2K	125.8	141.3	132.5	141.9	141.2	139.9	141.1
2.5K	127.0	140.9	133.2	141.6	140.1	140.4	140.2
3.15K	126.1	140.3	132.4	141.3	139.5	143.4	142.6
4K	126.5	140.0	132.5	141.3	139.3	145.2	144.6
5K	126.6	139.4	132.9	141.0	138.8	144.0	142.8
6.3K	126.8	139.0	133.4	140.2	137.8	143.7	142.2
8K	127.1	138.3	133.5	139.7	136.9	143.5	141.8
10K	126.5	137.8	133.1	139.3	136.1	142.5	141.0
43	111.5	137.4	138.5	136.7	137.7	125.6	125.9
125	121.4	141.2	141.5	144.1	142.7	130.8	134.1
250	133.5	148.0	147.5	150.8	148.4	136.8	138.9
500	130.7	152.1	151.6	147.0	147.3	145.5	142.6
1K	129.7	148.2	141.3	148.0	148.1	143.9	146.4
2K	131.2	146.2	137.4	146.7	145.3	144.4	144.7
4K	131.2	144.7	137.4	146.0	144.0	149.3	148.2
8K	131.6	143.1	138.1	144.5	141.8	148.0	146.5
LP-8	139.3	156.1	154.0	155.8	154.6	153.9	153.3
SIL	130.7	146.4	138.7	146.9	145.8	145.9	146.4
90BA	138.0	154.2	150.3	153.7	152.6	153.7	153.2
PNDB	151.6	166.9	162.8	167.4	165.9	167.8	167.1
STOP: 0							

YF-12 INLET NOISE SUPPRESSION
 16123 NOV 29, 1979 TEST 9224
 YF-12 INLET NOISE SUPPRESSION
 RUN 41
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	23	24	25	26	27	28	29	30	31	32
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	78.8	83.0	82.2	82.7	83.0	81.0	86.1	87.9		98.6
63	78.8	80.1	79.4	79.3	81.1	82.9	85.7	87.2		93.2
80	80.9	81.7	81.5	81.7	84.9	84.4	86.6	86.3		93.5
100	84.2	83.2	82.1	83.7	85.6	83.4	83.8	86.5		94.8
125	86.6	85.0	85.8	86.7	87.5	86.1	87.6	88.7		95.0
160	84.0	83.6	85.4	86.1	87.7	85.7	88.6	87.9		97.9
200	84.4	85.7	84.9	86.0	88.0	86.2	86.4	88.0		100.0
250	86.7	86.2	87.1	88.2	89.1	86.1	86.6	87.2		99.4
315	87.1	87.3	86.9	87.7	90.0	85.9	86.5	87.1		99.4
400	88.6	88.9	89.9	90.0	90.7	87.8	86.8	87.1		98.2
500	91.2	91.8	91.8	91.2	92.0	89.3	89.5	89.5		99.2
630	92.4	93.2	93.3	92.7	93.1	92.2	92.0	92.2		99.3
800	92.8	93.2	92.4	92.4	94.0	91.7	91.5	90.7		97.4
1K	91.8	91.6	91.8	91.2	94.6	91.5	91.0	90.1		96.4
1.25K	92.0	90.8	90.8	91.9	95.1	91.7	91.0	89.2		94.3
1.6K	92.7	91.7	92.0	93.0	95.8	92.9	91.1	89.6		93.2
2K	95.9	94.2	94.5	94.0	96.4	93.0	91.1	90.0		93.5
2.5K	104.4	102.6	102.3	101.6	97.6	98.7	93.1	91.2		94.1
3.15K	103.1	100.4	101.5	101.4	98.3	98.3	94.0	90.4		93.1
4K	97.4	96.0	95.9	94.2	98.2	93.4	89.7	88.0		91.3
5K	96.4	95.5	95.9	95.0	98.8	92.7	88.0	85.5		91.0
6.3K	95.4	93.0	93.4	93.0	98.1	90.4	87.9	85.0		90.3
8K	95.8	94.0	94.4	93.4	100.8	90.5	90.6	89.5		99.2
10K	91.2	90.6	91.1	90.0	100.7	87.4	84.5	82.3		93.9
<hr/>										
63	84.4	86.5	86.0	86.2	88.8	88.1	90.6	92.0		99.0
125	89.9	88.8	89.3	90.4	91.8	89.4	91.8	92.6		100.9
250	91.0	91.3	91.2	92.2	93.9	90.9	91.2	92.2		104.4
500	95.8	96.4	96.7	96.2	96.8	94.9	94.7	94.9		103.7
1K	97.0	96.8	96.5	96.8	99.4	94.4	95.9	94.8		101.0
2K	105.2	103.5	103.3	102.2	101.4	100.4	96.6	95.1		98.4
4K	104.8	102.7	103.4	103.0	103.4	100.4	96.1	93.2		96.7
8K	99.3	97.5	94.0	97.2	104.8	94.4	93.1	91.4		100.8
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LP-8	109.2	107.6	107.9	107.5	109.2	105.8	103.3	102.5		110.3
51L	102.4	101.0	101.1	100.8	101.4	99.1	96.2	94.4		98.7
8DBA	109.9	108.1	108.4	107.9	109.0	105.8	102.7	101.1		107.1
PNDB	123.8	122.3	122.4	122.2	122.8	120.0	117.1	115.1		120.9

*S10P=0

YF-12 INLET NOISE SUPPRESSION
 11:32 NOV 07, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN #1
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	18	19	20	21	22	23
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	105.2	125.9	129.6	124.9	127.1	138.6
63	103.6	127.5	130.5	126.3	128.2	139.8
80	107.5	128.9	132.2	128.1	129.8	141.4
100	114.6	129.9	133.2	130.1	130.9	142.2
125	115.5	131.6	134.2	132.5	132.1	143.3
160	118.4	133.1	134.5	133.3	132.6	144.0
200	122.4	135.2	134.7	134.9	133.9	145.2
250	123.7	137.9	134.5	136.7	134.4	145.6
315	123.8	141.9	134.0	135.0	133.4	145.4
400	120.2	144.1	134.3	133.0	132.3	145.0
500	118.1	142.4	133.6	130.9	131.1	144.6
630	118.9	138.5	131.7	130.4	130.9	143.8
800	119.0	133.8	127.1	131.2	135.6	142.9
1K	121.0	132.0	124.1	132.5	132.6	141.7
1.25K	122.4	133.4	122.9	131.6	128.4	140.7
1.6K	124.6	131.7	124.5	131.4	130.3	139.4
2K	133.9	131.6	127.1	132.3	133.3	139.0
2.5K	133.4	138.8	136.6	138.9	138.8	142.2
3.15K	127.1	139.0	137.3	139.6	139.5	143.6
4K	127.8	133.9	130.8	133.5	133.6	138.3
5K	128.3	133.9	130.6	133.9	133.3	137.7
6.3K	126.9	134.7	132.0	134.7	134.0	139.1
8K	126.0	133.8	130.4	133.4	132.3	137.5
10K	132.4	132.6	129.5	133.1	131.3	136.6
63	118.4	132.4	135.7	131.4	133.3	144.8
125	126.8	136.5	138.8	136.9	136.7	148.0
250	126.1	143.9	139.2	140.4	138.7	150.2
500	124.5	147.0	138.1	136.3	136.3	149.3
1K	134.7	137.9	129.8	136.6	137.9	146.6
2K	135.2	140.2	137.3	140.4	140.3	145.2
4K	131.9	141.1	138.8	141.4	141.2	145.5
8K		138.6	135.5	138.6	137.5	142.6
LP-8	139.6	150.7	146.4	147.6	147.3	156.2
SIL	131.5	139.7	135.3	139.5	139.8	145.8
BDBA	140.0	148.3	144.0	146.6	146.5	153.1
PND8	154.0	162.7	159.6	161.8	161.6	168.1
*STOP 0						

YF-12 INLET NOISE SUPPRESSION
 13155 NOV 07, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 41
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	24	25			
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG			
50	118.3	125.6			
63	120.2	125.6			
80	120.9	125.7			
100	122.4	125.7			
125	123.5	125.6			
160	125.0	125.7			
200	126.6	127.1			
250	128.4	128.6			
315	130.6	128.5			
400	132.8	128.4			
500	136.8	127.8			
630	139.4	129.0			
800	136.6	130.1			
1K	131.7	126.6			
1.25K	131.6	125.5			
1.6K	133.6	127.7			
2K	134.7	130.6			
2.5K	143.0	137.7			
3.15K	144.8	140.0			
4K	139.9	134.9			
5K	139.4	134.5			
6.3K	141.3	137.0			
8K	140.0	136.5			
10K	139.6	136.7			
63	124.7	130.4			
125	128.5	130.4			
250	133.6	132.9			
500	141.9	133.2			
1K	138.8	132.7			
2K	144.0	138.8			
4K	146.8	142.0			
8K	145.1	141.5			
LP-8	151.2	146.6			
SIL	143.2	137.8			
80BA	151.4	146.5			
PNOB	165.7	161.2			
STOP 0					

YF-12 INLET NOISE SUPPRESSION
 17105 DEC 03, 1979 TEST 9226
 YF-12 INLET NOISE SUPPRESSION
 RUN 47
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	34	35	36	37	38	39	40	41	42	43
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	81.1	83.4	82.4	83.5	83.7	83.4	84.2			99.3
63	84.9	85.9	86.3	84.9	87.0	88.5	89.6			99.0
80	84.2	85.7	85.4	85.6	87.7	87.8	88.8			98.9
100	88.5	87.9	86.2	88.6	88.6	88.8	89.1			100.0
125	90.5	89.4	89.1	89.9	89.5	88.8	91.5			101.0
160	88.9	88.0	89.8	90.8	89.3	90.9	92.8			103.2
200	88.3	89.3	88.9	90.1	89.8	90.9	91.0			103.2
250	90.9	90.6	91.0	91.4	90.4	89.4	90.5			103.2
315	90.3	90.6	90.0	90.5	89.7	89.4	89.9			103.0
400	90.9	91.3	92.4	92.6	91.1	89.9	89.2			101.0
500	92.7	93.6	94.3	93.6	91.6	90.0	89.0			99.4
630	95.3	95.3	95.4	95.6	92.8	91.8	90.2			98.5
800	95.8	95.7	94.6	94.6	92.5	91.3	90.0			96.8
1K	93.8	93.6	92.5	92.3	90.9	90.4	89.6			97.0
1.25K	93.4	92.6	93.0	93.5	92.2	91.7	91.4			101.5
1.6K	94.6	94.8	94.9	95.1	93.0	92.8	90.8			99.4
2K	98.0	96.1	96.1	95.2	93.1	93.0	90.4			95.0
2.5K	102.4	100.8	99.9	98.3	95.7	95.1	90.6			93.9
3.15K	107.1	104.2	104.6	103.9	101.2	99.5	95.3			93.9
4K	102.6	101.9	101.7	100.7	99.1	98.7	94.9			94.4
5K	96.7	96.6	94.8	95.9	94.9	94.2	90.4			93.9
6.3K	96.0	93.8	93.9	93.2	92.0	90.4	88.2			90.9
8K	94.1	94.6	94.7	93.7	92.2	90.8	90.4			95.2
10K	90.8	90.7	91.0	90.0	88.4	88.0	87.0			99.9
63	88.5	89.9	89.3	89.5	91.2	91.8	93.2			103.8
125	94.2	93.3	93.4	94.6	94.0	94.4	96.1			106.4
250	94.7	95.0	94.8	95.5	94.8	94.8	95.3			107.9
500	98.1	98.5	99.0	98.9	96.7	95.4	94.3			104.6
1K	99.2	98.9	98.2	98.3	96.7	95.9	95.2			103.8
2K	104.5	102.8	102.3	101.2	98.9	98.5	95.4			101.5
4K	108.7	106.6	106.9	106.1	103.8	102.8	98.8			98.8
8K	99.7	98.1	98.2	97.4	95.9	94.7	94.5			101.6
LP-8	111.2	109.7	109.7	109.1	107.2	106.4	104.6			113.4
SIL	104.1	102.8	102.5	101.2	99.8	99.1	96.5			101.4
80BA	111.9	110.1	110.1	109.3	107.1	106.2	103.3			109.3
PNDB	124.6	124.7	124.9	124.3	122.2	121.1	118.3			122.8

YF-12 INLET NOISE SUPPRESSION
 16130 NOV 07, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN #7
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	30	31	32	33	34	35
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	102.7	128.1	131.2	126.1	128.4	137.1
63	106.3	129.5	132.4	127.4	129.8	138.2
80	105.7	130.9	133.7	129.9	131.5	139.5
100	110.9	132.1	135.2	133.6	133.1	140.3
125	118.5	133.9	136.2	136.1	134.6	141.8
160	118.6	135.4	137.0	137.3	135.5	141.8
200	122.3	137.5	138.6	138.9	137.0	142.7
250	127.2	140.1	139.0	140.0	137.4	143.6
315	127.3	143.6	139.4	138.6	137.2	144.1
400	127.3	146.6	139.9	136.6	136.4	144.7
500	123.5	145.6	138.6	135.0	135.4	144.4
630	122.6	142.1	135.6	134.2	135.4	144.2
800	123.6	137.7	131.9	135.5	140.7	143.5
1K	122.9	136.0	128.8	137.0	137.3	142.4
1.25K	123.7	137.1	127.1	136.5	133.2	141.7
1.6K	124.1	135.8	128.6	136.6	135.0	140.7
2K	126.3	135.1	130.3	136.0	137.0	139.9
2.5K	131.0	137.1	133.3	137.6	137.7	139.5
3.15K	135.8	141.8	137.6	142.0	141.4	140.8
4K	133.3	141.4	138.0	141.2	141.2	142.1
5K	129.4	137.9	134.7	138.2	137.5	140.6
6.3K	128.7	136.9	133.2	136.8	135.8	139.1
8K	127.6	136.4	132.7	136.3	135.0	138.0
10K	126.2	134.7	131.0	135.2	133.3	137.0
63	109.9	134.4	137.3	132.9	134.9	143.2
125	121.9	138.8	140.9	140.7	139.3	146.1
250	130.9	145.9	143.8	144.0	142.0	148.3
500	129.7	149.9	143.1	140.2	140.5	149.2
1K	128.2	141.7	134.5	141.2	142.9	147.3
2K	132.9	140.8	135.9	141.5	141.4	144.8
4K	138.3	145.4	141.8	145.5	145.2	146.0
8K	132.4	140.9	137.2	140.9	139.6	142.9
LP-8	141.3	153.4	149.5	151.0	150.6	155.5
SIL	133.1	142.7	137.4	142.7	143.2	146.1
80BA	141.4	151.3	146.4	149.8	149.7	153.2
PNDB	156.2	165.5	161.7	164.8	164.4	167.5

YF-12 INLET NOISE SUPPRESSION
 11:49 NOV 08, 1979 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN 47
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	36	37			
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG			
50	120.0	119.0			
63	121.5	120.2			
80	122.5	121.5			
100	124.1	123.2			
125	125.7	125.5			
160	127.0	126.9			
200	128.6	128.9			
250	132.0	131.7			
315	134.3	133.6			
400	136.0	133.4			
500	141.4	133.0			
630	144.4	137.2			
800	141.9	136.8			
1K	138.2	133.1			
1.25K	137.6	133.7			
1.6K	140.3	134.8			
2K	139.6	135.9			
2.5K	142.9	138.9			
3.15K	151.5	148.3			
4K	150.6	147.0			
5K	147.9	143.4			
6.3K	147.1	142.5			
8K	146.4	142.6			
10K	145.3	141.7			
63	126.2	125.1			
125	130.5	130.2			
250	137.0	136.6			
500	146.6	139.8			
1K	144.4	139.6			
2K	144.0	141.7			
4K	155.0	151.4			
8K	151.1	147.1			
LP-8	157.5	153.6			
SIL	148.5	144.3			
80BA	157.8	154.0			
PNOB	171.9	168.3			
STOP 0					

YF-12 INLET NOISE SUPPRESSION
 18140 DEC 03, 1979 TEST 9224
 YF-12 INLET NOISE SUPPRESSION
 RUN 49
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	45	46	47	48	49	50	51	52	53	54
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	81.5	83.9	83.2	84.3	84.6	84.2	87.2	88.7	89.7	101.2
63	85.9	86.9	86.6	86.1	87.8	89.2	90.2	92.4	93.0	101.0
80	86.0	87.5	87.5	87.5	89.4	89.3	90.3	92.5	93.2	100.7
100	89.3	89.0	87.2	89.2	89.5	89.8	90.4	93.6	93.2	101.9
125	90.9	90.0	89.9	90.9	90.3	90.0	92.9	94.5	92.6	102.6
160	90.2	89.4	91.1	91.9	90.6	92.0	93.4	92.3	91.1	104.9
200	89.1	90.1	90.2	91.2	91.1	92.1	92.1	93.0	92.5	103.7
250	91.6	91.3	91.8	91.9	90.8	90.8	91.2	92.4	92.9	103.3
315	91.1	91.8	91.1	91.4	90.9	91.0	90.8	91.8	92.0	103.1
400	91.6	91.8	92.8	93.3	91.8	90.6	90.4	90.9	91.3	101.3
500	93.0	93.9	94.8	94.1	92.2	90.6	89.8	90.3	90.4	99.8
630	95.2	95.9	95.8	95.8	93.3	91.6	90.4	90.8	91.3	98.6
800	96.6	96.8	95.0	95.1	93.2	91.6	90.7	90.6	91.2	97.9
1K	94.3	93.7	92.7	92.8	91.7	91.0	90.3	90.9	91.8	98.0
1.25K	94.2	93.2	92.9	94.0	92.5	92.0	91.6	91.6	93.9	99.8
1.6K	97.4	96.0	95.8	95.7	93.9	94.0	92.8	92.7	94.8	102.0
2K	98.1	96.5	96.4	95.6	93.4	93.6	91.0	91.2	90.6	96.7
2.5K	101.2	99.4	98.5	97.3	94.7	94.4	90.7	91.3	89.2	94.9
3.15K	104.7	101.6	101.9	101.5	98.6	97.0	93.5	91.1	88.4	94.0
4K	101.4	100.6	100.2	99.3	97.3	97.0	93.6	92.2	88.6	94.0
5K	95.8	95.5	95.9	95.0	93.9	93.3	90.0	89.2	87.0	94.3
6.3K	94.2	92.1	92.1	91.5	90.3	88.9	87.4	86.1	84.0	90.9
8K	94.4	93.1	93.0	92.0	90.4	89.2	89.3	88.7	87.6	93.5
10K	89.2	89.8	89.5	88.5	87.0	86.6	86.1	86.8	86.9	97.9
63	89.7	91.1	90.9	91.0	92.4	92.9	94.3	96.3	97.0	105.7
125	94.9	94.3	94.5	95.6	94.9	95.5	97.2	98.4	97.2	108.1
250	95.5	95.9	95.9	96.3	95.7	96.0	96.2	97.2	97.3	108.2
500	98.3	99.0	99.4	99.3	97.2	95.7	95.0	95.4	95.8	104.8
1K	99.9	99.7	98.5	98.8	97.3	96.3	95.7	95.8	97.2	103.4
2K	104.0	102.3	101.8	101.0	98.8	98.8	96.4	96.6	97.0	103.7
4K	106.8	104.7	104.8	104.1	101.8	100.9	97.5	95.8	92.8	98.9
8K	97.9	96.5	96.6	95.7	94.3	93.2	92.5	92.1	91.2	99.8
LP-8	110.1	108.8	108.7	108.3	106.5	105.9	104.9	105.3	105.2	114.2
SIL	103.6	102.2	101.7	101.3	99.3	98.7	96.5	96.1	95.7	102.0
80BA	110.5	108.9	108.7	108.1	106.0	105.3	103.0	102.6	102.5	109.7
PNDB	125.2	123.3	123.4	123.0	120.9	119.9	117.8	117.3	116.1	123.8
*50Pz.0										

YE-12 INLET NOISE SUPPRESSION
 08137 NOV 08, 1979 TEST 9154
 YE-12 INLET NOISE SUPPRESSION
 RUN 49
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	41	42	43	44	45	46
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	114.4	128.4	131.9	126.1	133.8	142.6
63	115.0	129.4	132.3	127.5	135.0	143.9
80	114.9	131.1	133.7	129.7	136.8	144.9
100	116.3	132.7	135.3	133.7	138.8	146.1
125	119.7	134.0	136.4	136.1	140.1	147.4
160	120.9	135.8	137.2	138.3	141.0	147.4
200	123.6	137.9	139.3	139.8	142.7	148.0
250	127.9	140.5	139.9	140.4	143.1	148.6
315	127.8	143.9	140.3	139.1	142.8	149.3
400	127.8	146.9	141.0	137.0	142.1	149.9
500	124.4	146.2	139.7	135.4	141.1	149.7
630	123.3	142.7	136.5	134.8	141.0	149.6
800	125.1	138.3	132.6	136.3	146.5	149.1
1K	122.8	136.5	129.4	137.7	143.2	147.8
1.25K	123.6	137.8	128.1	137.2	139.1	147.4
1.6K	124.6	136.2	129.0	136.9	140.6	146.4
2K	126.8	135.5	130.6	136.4	142.7	145.7
2.5K	129.6	136.5	132.6	137.3	142.7	145.4
3.15K	133.0	139.5	135.3	139.8	144.4	145.3
4K	131.4	139.7	136.0	139.5	144.4	146.2
5K	128.5	137.3	133.7	137.6	141.8	145.7
6.3K	127.2	136.1	132.1	136.0	140.0	144.7
8K	126.1	135.4	131.3	135.2	138.9	143.2
10K	124.6	134.1	129.8	134.4	137.4	142.3
63	119.5	134.6	137.5	132.8	140.2	148.7
125	124.1	139.1	141.1	141.2	144.8	151.8
250	131.6	146.2	144.6	144.6	147.6	153.4
500	130.4	150.4	144.2	140.6	146.2	154.5
1K	128.7	142.3	135.2	141.9	148.7	152.9
2K	132.3	140.9	135.8	141.7	146.9	150.6
4K	136.1	143.7	139.9	143.8	148.5	150.6
8K	130.8	140.1	136.0	140.0	143.7	148.3
LP-8	140.3	153.5	149.8	150.8	155.5	160.9
SIL	132.4	142.3	137.0	142.5	148.0	151.4
SDBA	139.9	151.0	146.0	149.2	154.3	158.5
PNOB	154.8	164.7	160.9	163.8	168.5	172.4

YE-12 INLET NOISE SUPPRESSION
 08:37 NOV 08, 1979 TEST 9156
 YF-12 INLET NOISE SUPPRESSION
 RUN 49
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	47	48
FREQ (HZ)	TR 7 K14 Q. DEG	TR 8 K12 Q. DEG
50	119.9	119.0
63	121.8	120.3
80	122.8	121.6
100	124.8	123.8
125	126.0	125.9
160	127.5	127.2
200	129.1	129.2
250	132.3	132.0
315	134.7	134.0
400	136.4	134.0
500	142.1	133.9
630	145.1	137.1
800	142.7	139.1
1K	139.2	134.7
1.25K	138.5	137.4
1.6K	141.6	135.5
2K	141.1	137.7
2.5K	144.0	141.6
3.15K	150.0	143.4
4K	151.5	146.5
5K	148.1	143.5
6.3K	147.2	142.0
8K	146.7	142.0
10K	145.3	141.0
63	126.4	125.2
125	131.0	130.6
250	137.4	136.9
500	147.2	140.0
1K	145.3	142.2
2K	147.2	143.8
4K	154.9	149.5
8K	151.3	146.4
LP-8	157.7	152.8
SIL	149.1	145.2
80BA	157.9	153.0
PNDB	172.1	167.4
STOP 0		

YF-12 INLET NOISE SUPPRESSION
 08:52 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 51
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	52	53	54	55	56	57
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	114.2	128.5	131.8	126.2	134.0	138.0
63	114.8	129.8	132.4	127.8	135.5	139.2
80	114.7	131.4	133.9	129.5	137.0	140.3
100	116.2	132.8	135.6	134.1	139.1	141.3
125	119.4	134.2	136.8	136.3	140.5	142.8
160	121.3	136.0	137.5	138.8	141.4	142.7
200	123.9	138.3	139.7	140.2	143.3	143.3
250	128.2	140.7	140.2	140.7	143.6	143.9
315	128.1	144.0	141.0	139.2	143.4	144.6
400	128.0	147.2	141.5	137.5	142.6	145.6
500	124.7	146.3	140.5	136.1	141.6	145.3
630	123.1	142.9	136.8	135.3	141.4	145.4
800	124.9	138.5	137.9	136.8	147.1	144.8
1K	123.4	137.1	129.9	138.3	143.7	143.4
1.25K	124.3	138.2	128.4	137.7	139.8	143.3
1.6K	124.9	136.6	129.2	137.3	141.1	142.2
2K	126.7	136.0	130.7	136.6	143.0	141.5
2.5K	128.5	136.2	131.9	136.8	142.5	141.0
3.15K	130.3	137.6	133.0	137.7	142.6	140.4
4K	129.0	137.8	133.5	137.6	142.3	140.3
5K	127.0	136.2	132.2	136.4	140.6	140.3
6.3K	125.8	135.2	130.9	135.1	139.0	139.8
8K	124.5	134.6	129.9	134.2	137.8	138.5
10K	123.3	133.6	128.7	133.5	136.5	137.6
63	119.3	134.8	137.5	132.8	140.4	144.0
125	124.2	139.3	141.8	141.6	145.2	147.1
250	131.9	146.4	145.1	144.9	148.2	148.7
500	130.5	150.6	144.8	141.2	146.7	150.2
1K	129.0	142.7	135.6	142.4	149.2	148.7
2K	131.7	141.1	135.5	141.7	147.0	146.4
4K	133.8	142.0	137.7	142.1	146.7	145.1
8K	129.4	139.3	134.7	139.1	142.7	143.5
LP-8	139.3	153.5	149.9	150.7	155.5	156.3
SIL	131.5	141.9	136.3	142.1	147.7	146.7
BDDBA	138.6	150.8	145.6	148.7	154.0	154.0
PND8	153.2	163.9	159.8	162.9	167.7	167.4

Add 5.0 dB to all values of K10

YF-12 INLET NOISE SUPPRESSION
 08:52 NOV 08, 1979 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN 51
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	58	60
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	120.3	119.2
63	121.7	120.8
80	122.8	122.5
100	125.1	124.4
125	126.3	126.2
160	127.5	127.5
200	129.5	129.9
250	132.4	132.4
315	135.3	134.5
400	136.9	134.7
500	142.8	134.5
630	145.6	137.2
800	143.4	140.0
1K	140.5	142.0
1.25K	139.2	140.3
1.6K	142.0	137.1
2K	141.5	137.4
2.5K	144.0	139.8
3.15K	148.5	141.6
4K	151.0	144.9
5K	147.3	142.7
6.3K	146.7	141.5
8K	146.2	141.1
10K	144.7	140.3
63	126.5	125.8
125	131.1	131.0
250	137.8	137.4
500	147.8	140.4
1K	146.2	145.6
2K	147.4	143.1
4K	154.0	148.0
8K	150.7	145.8
LP-8	157.3	152.5
SIL	149.2	145.6
80dB	157.4	152.5
PNDB	171.7	166.7
STOP 0		

YF-12 INLET NOISE SUPPRESSION
 18113 DEC 04, 1979 TEST 9226
 YF-12 INLET NOISE SUPPRESSION
 RUN 53
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN	67	68	69	70	71	72	73	74	75	76
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	87.9	90.0	89.5	90.5	90.8	90.3	92.4	94.9	98.1	110.1
63	91.0	91.9	91.7	91.3	92.6	93.7	94.6	96.7	99.7	109.4
80	95.8	97.9	96.5	96.7	98.3	98.4	98.3	101.9	106.3	110.3
100	94.8	95.4	93.6	95.4	95.9	96.4	96.4	100.2	101.9	110.7
125	97.3	96.2	95.8	97.4	96.4	95.9	99.3	100.9	101.9	111.2
160	98.4	96.3	98.0	98.1	96.9	98.7	99.9	99.1	101.7	111.6
200	97.5	96.9	97.4	97.0	98.3	98.8	98.5	100.3	103.6	111.5
250	95.4	94.6	94.7	95.9	96.0	96.1	96.4	99.0	101.9	110.3
315	93.9	94.9	94.5	95.8	96.1	95.4	95.1	97.5	100.4	109.8
400	93.1	93.8	95.1	95.7	94.0	93.5	94.2	95.8	99.3	107.4
500	94.1	94.8	95.8	95.5	93.9	93.6	92.9	95.0	98.5	106.4
630	96.0	96.5	94.5	96.5	94.7	94.1	93.3	95.1	98.6	105.1
800	95.9	96.4	95.4	96.1	95.1	94.3	93.6	95.3	99.3	104.0
1K	94.3	94.2	93.7	94.0	93.5	93.0	93.1	94.2	98.1	102.5
1.25K	94.6	94.2	94.1	94.4	93.3	93.2	93.3	93.9	98.8	101.5
1.6K	97.2	96.1	96.4	96.2	94.9	95.9	93.7	95.5	101.5	102.1
2K	97.3	96.2	96.5	95.9	94.2	94.4	92.1	93.5	97.5	99.2
2.5K	98.2	96.9	94.7	96.0	93.9	94.4	91.1	93.5	96.9	97.1
3.15K	98.7	96.2	94.9	96.5	94.4	93.4	91.0	91.4	92.9	95.8
4K	96.6	96.1	95.8	94.7	93.4	93.4	90.6	91.7	92.2	94.9
5K	92.7	92.6	93.0	92.0	91.5	91.1	87.8	89.4	90.9	94.4
6.3K	90.8	89.0	89.1	88.5	87.9	86.9	85.2	86.4	87.7	91.8
8K	91.1	90.2	90.0	89.0	87.8	86.9	85.8	87.9	89.4	92.8
10K	86.4	87.0	84.9	85.9	84.8	84.8	82.0	86.0	88.7	94.3
63	97.5	99.4	98.3	98.5	99.9	100.7	100.6	103.7	106.3	114.7
125	101.8	100.8	100.9	101.9	101.2	102.0	103.5	104.9	106.6	116.0
250	100.6	100.4	100.5	101.0	101.7	101.8	101.7	103.9	104.9	115.4
500	99.4	99.9	100.6	100.7	99.0	98.5	98.2	100.1	103.4	111.2
1K	99.8	99.8	99.2	99.8	98.8	98.3	98.1	99.3	103.5	107.6
2K	102.3	101.2	101.3	100.8	99.1	99.0	97.2	99.0	103.6	108.2
4K	101.4	100.0	100.3	99.5	98.0	97.6	94.8	95.7	96.9	99.8
8K	94.6	93.7	93.6	92.8	91.9	91.1	89.4	91.6	93.4	97.8
LP-8	109.3	108.8	108.9	109.0	108.4	108.5	108.5	110.4	113.3	121.0
91L	101.2	100.3	100.3	100.0	98.2	98.4	94.2	98.0	101.3	104.0
80BA	107.7	106.8	106.9	106.6	105.3	105.1	103.7	105.2	108.9	113.6
PNOB	122.3	121.1	121.3	121.1	119.8	119.4	117.9	119.6	122.8	127.3
819P-0										

YF-12 INLET NOISE SUPPRESSION
 11:42 NOV 08, '79 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN 53
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN	64	65	66	67	68	69
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	107.2	128.8	131.9	126.4	128.9	133.2
63	109.6	130.0	132.6	128.1	130.6	134.5
80	108.5	131.3	133.7	130.3	132.3	135.8
100	112.9	132.7	135.3	134.3	134.2	137.0
125	118.6	134.5	136.3	136.4	135.7	138.1
160	121.2	136.2	137.6	139.6	137.1	138.3
200	124.3	138.4	139.8	141.1	138.6	138.9
250	128.8	140.7	140.4	141.1	139.0	139.2
315	128.6	144.3	141.5	139.9	138.7	140.0
400	128.3	147.3	142.4	138.1	138.3	141.2
500	125.4	146.7	141.1	136.5	137.0	140.9
630	123.4	143.3	137.6	135.9	136.9	140.7
800	124.9	138.9	133.3	137.2	142.6	140.3
1K	123.2	137.5	130.2	138.8	139.2	139.2
1.25K	124.6	138.6	128.6	138.3	135.4	139.0
1.6K	125.4	137.0	129.5	137.7	136.5	138.0
2K	126.7	136.4	130.9	136.8	138.3	137.4
2.5K	128.0	136.3	131.7	136.8	137.5	136.9
3.15K	128.3	136.6	131.6	136.6	136.6	136.1
4K	127.1	136.4	131.5	136.2	135.8	135.5
5K	126.0	135.4	130.7	135.5	134.5	135.4
6.3K	125.1	134.9	129.9	134.5	133.4	135.1
8K	123.8	134.3	129.0	133.7	132.3	134.0
10K	122.6	133.7	127.9	133.1	131.1	133.2
63	113.3	134.9	137.6	133.3	135.6	139.4
125	123.5	139.4	141.3	142.1	140.6	142.6
250	132.5	146.6	145.4	145.5	143.6	144.2
500	130.9	150.9	145.6	141.7	142.2	145.7
1K	129.1	143.2	135.9	142.9	144.8	144.3
2K	131.6	141.3	135.5	141.9	142.3	142.2
4K	132.0	140.9	136.0	140.9	140.5	140.4
8K	128.7	139.1	133.8	138.6	137.1	138.9
LP-8	138.9	153.7	150.2	150.9	150.7	151.9
SIL	130.9	141.8	135.8	141.9	142.5	142.3
80BA	137.9	150.9	145.6	148.7	149.0	149.6
PNDB	152.1	163.5	159.2	162.5	162.4	163.0

Add 10.0 dB to all values at K10

YF-12 INLET NOISE SUPPRESSION
 11142 NOV 08, 1979 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN 53
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN	70	71
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	119.8	119.1
63	121.9	120.3
80	123.1	122.2
100	124.9	124.7
125	126.4	126.2
160	127.6	127.6
200	129.9	129.9
250	132.8	132.6
315	135.9	135.1
400	137.3	135.2
500	143.7	135.3
630	145.9	138.4
800	144.0	140.3
1K	140.6	136.1
1.25K	139.9	136.5
1.6K	142.5	135.9
2K	143.4	138.0
2.5K	144.0	138.9
3.15K	146.7	140.4
4K	148.5	143.0
5K	146.6	141.5
6.3K	145.9	140.7
8K	145.5	140.2
10K	144.2	139.6
63	126.6	125.5
125	131.2	131.1
250	138.3	137.8
500	148.3	141.4
1K	146.7	142.8
2K	148.1	142.5
4K	152.1	146.6
8K	150.0	145.0
LP-8	156.6	151.3
SIL	149.0	144.0
80BA	156.5	151.2
PNDB	170.5	165.4
STOP 0		

YF-12 INLET NOISE SUPPRESSION
 10157 APR 28, 1960 TEST 10645
 YF-12 INLET NOISE SUPPRESSION
 RUN 57
 SPIKE MIDWAY
 BYPASS DOORS OPEN
 5600 RPM

RUN	57	58	59	60	61	62	63	64	65	66
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 20. DEG	TR 5 F5 40. DEG	TR 6 F6 60. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	80.3	83.0	81.6	82.9	83.4	82.9	86.5	87.5	90.5	97.8
63	83.2	84.3	83.4	83.6	86.2	87.7	89.2	90.6	93.8	96.7
80	82.7	84.6	83.5	84.2	86.9	87.2	87.8	90.2	92.7	96.9
100	85.9	85.7	83.6	85.7	87.1	88.0	88.6	90.9	91.8	98.3
125	86.5	85.4	84.6	86.5	86.4	86.1	88.8	90.4	91.5	98.4
160	86.6	85.6	84.2	87.4	86.4	87.7	90.6	89.7	89.6	100.2
200	86.6	87.7	86.3	87.9	88.0	89.2	88.4	89.7	90.9	101.7
250	89.3	88.7	88.7	89.7	89.5	88.1	88.8	89.2	91.8	101.4
315	89.7	89.7	88.1	89.2	89.1	89.0	88.4	89.0	91.2	101.1
400	90.6	90.3	90.7	91.7	90.7	89.2	88.1	88.1	90.3	99.8
500	92.0	92.8	92.7	92.6	91.2	89.3	87.8	87.5	89.4	98.4
630	94.8	95.4	94.1	94.0	93.9	91.2	90.9	88.9	90.8	97.1
800	98.9	96.8	95.2	94.2	92.4	90.3	88.5	88.2	90.5	94.5
1K	95.1	95.0	92.7	92.1	90.7	90.0	88.4	88.3	90.5	93.8
1.25K	94.6	93.9	92.1	92.5	91.0	90.0	89.2	88.6	91.7	97.6
1.6K	96.1	94.7	93.5	93.5	91.7	91.3	89.0	88.0	89.7	93.1
2K	97.6	96.0	95.4	94.5	92.3	91.9	89.3	88.7	90.0	90.7
2.5K	102.0	101.5	100.4	99.4	96.3	94.9	89.4	89.1	88.9	90.5
3.15K	104.5	104.0	102.9	103.0	100.6	98.0	93.0	89.4	88.8	91.4
4K	99.7	99.3	98.4	97.9	97.0	95.8	91.0	89.1	87.6	90.7
5K	95.6	95.8	95.3	94.6	94.0	92.3	87.2	86.2	85.8	89.5
6.3K	94.9	94.1	92.8	92.6	92.0	89.6	86.2	84.6	84.6	88.7
8K	94.6	94.1	93.0	92.6	91.7	89.9	89.1	88.4	89.7	96.1
10K	90.1	90.8	89.7	89.0	88.0	87.2	84.9	85.4	86.7	98.3
63	87.0	88.8	87.7	88.4	90.5	91.2	92.7	94.4	97.3	101.9
125	91.1	90.4	89.7	91.3	91.4	92.1	94.2	95.1	98.8	103.8
250	93.5	93.6	92.6	93.8	93.7	93.6	93.3	94.1	96.1	106.2
500	97.6	98.1	97.5	97.6	96.9	94.8	93.9	93.0	95.0	103.3
1K	101.4	100.2	98.3	97.8	96.2	94.9	93.5	93.1	95.7	100.4
2K	104.1	103.2	102.2	101.4	98.8	97.8	94.0	93.4	94.3	94.3
4K	106.1	105.7	104.8	104.7	102.8	100.7	95.8	93.2	92.3	95.4
8K	98.5	98.0	94.9	94.4	95.7	93.8	91.9	91.2	92.3	100.6
LP-B	109.9	109.3	108.3	108.0	106.4	105.0	102.8	102.6	104.2	111.2
SIL	103.9	103.0	101.7	101.3	99.2	97.8	94.4	93.3	94.1	97.4
ODBA	110.6	109.8	108.7	108.4	106.4	104.7	101.2	100.0	101.1	106.6
PNDB	124.8	124.4	123.3	123.3	121.5	119.7	116.3	114.7	115.2	120.1
*STOP 0										

VF-12 INLET NOISE SUPPRESSION
 08131 FEB 07, 1980 TEST 9950
 VF-12 INLET NOISE SUPPRESSION
 RUN 59
 SPIKE MIDWAY
 BYPASS DBRS OPEN
 6200 RPM

RUN	48	49	50	51	52	53	54	55	56	57
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	83.5	85.1	83.5	84.8	85.6	85.3	88.0	89.4	92.2	101.6
63	85.7	86.8	85.8	86.7	88.2	89.7	90.3	92.4	95.5	100.8
80	85.4	87.3	84.3	86.6	89.2	89.3	89.6	92.2	95.3	100.6
100	87.9	87.8	85.5	87.8	89.2	89.1	89.2	93.0	94.9	101.4
125	89.3	88.5	87.5	87.5	89.5	89.2	89.2	92.2	94.1	102.6
160	89.4	89.4	88.9	90.1	89.3	90.9	93.1	92.1	93.5	104.6
200	88.8	89.6	88.7	90.3	91.0	91.6	92.0	92.9	94.8	104.0
250	91.4	90.6	90.4	91.4	91.4	90.7	91.0	92.4	95.2	103.4
315	91.5	92.1	90.5	91.6	91.9	92.0	90.9	92.0	94.5	103.1
400	92.2	92.0	92.6	93.5	92.7	91.0	90.8	91.1	93.7	101.6
500	93.5	94.5	94.0	94.2	92.6	91.1	90.0	90.6	92.9	99.8
630	95.5	96.4	95.4	95.4	94.2	92.2	90.7	90.8	93.7	98.4
800	97.3	97.9	96.4	95.1	94.6	92.5	91.1	90.8	93.8	97.9
1K	96.6	95.9	93.6	92.7	92.7	91.8	90.6	91.0	94.4	98.1
1.25K	96.1	94.9	93.6	94.4	93.2	92.5	91.7	91.8	96.5	100.0
1.6K	97.7	96.3	94.9	95.4	94.0	93.9	92.6	92.7	97.5	102.1
2K	98.1	96.5	95.7	96.6	93.9	93.6	91.0	91.2	93.2	96.9
2.5K	101.1	100.2	98.9	98.2	95.7	94.9	90.8	91.4	91.7	95.0
3.15K	104.0	103.3	101.8	101.6	99.4	97.5	92.9	90.9	91.0	94.0
4K	100.2	100.0	99.2	98.8	97.7	96.9	92.1	91.7	91.2	94.1
5K	95.2	95.2	94.8	94.8	94.3	93.3	89.5	89.0	89.4	94.4
6.3K	93.4	92.8	91.3	91.5	91.0	89.0	86.7	85.9	86.6	91.1
8K	93.8	93.4	92.2	91.9	91.1	89.5	89.0	88.6	90.8	93.6
10K	89.0	90.0	88.7	88.4	87.5	86.8	85.8	86.8	89.3	97.9
63	89.7	91.3	90.1	90.5	92.7	93.2	94.2	96.3	99.3	105.8
125	93.7	93.0	92.3	94.0	94.2	94.4	96.5	97.9	99.2	107.9
250	95.5	95.6	94.8	95.2	96.2	96.2	96.1	97.2	99.6	108.3
500	98.7	99.4	98.9	99.2	98.0	96.2	95.3	95.4	98.2	104.9
1K	101.5	101.2	99.1	99.2	98.4	97.0	95.9	96.0	99.9	103.6
2K	103.0	102.2	101.7	101.4	99.4	99.0	96.2	96.6	99.6	103.8
4K	105.9	105.4	104.2	104.0	102.4	101.0	96.9	95.4	95.4	98.9
8K	97.3	97.1	95.7	95.4	94.9	93.4	92.2	92.0	93.7	99.9
LP-8	109.9	109.4	108.2	108.2	107.1	106.1	104.7	105.2	107.6	114.2
51L	103.8	103.2	101.7	101.5	100.0	99.0	96.3	96.0	98.3	102.1
8DBA	110.2	109.6	108.4	108.2	106.7	105.4	102.8	102.6	105.1	109.8
PNOB	124.8	124.3	123.0	123.0	121.5	120.2	117.4	117.1	118.7	123.9
518Pa-0										

RUN	59	60	61	62	63	64	65	66	67	68
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 60. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	82.8	85.5	86.4	86.0	86.8	86.9	89.2	91.0	92.3	103.4
63	86.5	87.2	87.0	87.0	89.1	90.2	91.2	92.4	94.6	103.1
80	87.4	89.5	88.5	88.7	91.1	90.9	91.6	94.1	95.5	102.9
100	89.3	89.0	86.9	89.3	90.6	90.6	90.7	95.0	95.2	104.2
125	91.1	90.1	89.3	91.5	91.3	91.1	94.0	95.9	95.1	104.5
160	90.9	89.6	90.5	91.4	90.4	92.4	94.7	93.8	93.6	106.4
200	90.0	90.1	89.9	91.3	92.1	92.8	92.7	94.1	94.9	106.3
250	92.2	91.4	91.1	92.1	92.1	91.4	92.1	94.1	95.1	104.4
315	92.2	93.0	91.5	92.9	93.0	93.0	92.0	92.4	94.1	104.4
400	92.9	92.9	93.3	94.3	93.3	91.6	91.7	92.2	93.5	102.5
500	94.4	95.0	94.7	94.7	93.2	92.1	91.1	91.9	93.0	101.1
630	95.9	96.4	95.7	95.9	94.8	92.9	91.3	91.9	93.4	100.3
800	97.2	98.3	95.7	96.1	94.9	93.9	91.8	91.9	93.8	99.3
1K	96.5	96.0	96.6	96.8	93.4	92.4	92.6	93.0	94.2	99.2
1.25K	96.1	95.2	96.0	94.7	93.3	93.0	92.5	92.5	95.3	99.6
1.6K	97.6	96.1	96.7	96.1	94.8	94.5	93.8	94.4	99.1	103.4
2K	97.6	96.2	95.3	95.6	94.1	94.1	91.9	92.1	94.0	99.4
2.5K	99.1	98.1	97.0	96.7	94.9	94.6	91.0	92.3	92.6	94.2
3.15K	100.7	99.9	98.5	98.4	96.8	95.0	91.4	90.9	89.7	94.9
4K	98.0	97.2	96.2	96.3	95.4	94.8	91.3	91.8	89.8	94.6
5K	93.3	93.4	92.9	93.0	92.7	91.8	88.9	89.1	88.4	94.7
6.3K	91.0	90.4	88.9	89.2	89.0	87.4	86.2	86.0	85.3	91.7
8K	91.5	91.1	89.9	89.8	89.1	87.9	87.9	88.4	88.2	93.2
10K	86.9	87.9	86.6	86.8	85.9	85.6	84.9	86.6	87.6	96.4
63	90.7	92.6	91.7	92.1	94.1	94.3	95.6	97.8	99.1	107.9
125	95.3	94.4	93.9	95.7	95.5	96.2	98.2	99.7	99.5	109.9
250	96.4	96.4	95.7	96.9	97.2	97.3	97.1	98.7	99.5	109.9
500	99.3	99.8	99.4	99.8	98.5	97.0	96.2	96.8	98.1	106.2
1K	101.4	101.5	99.6	100.0	98.7	97.4	97.1	97.3	99.2	104.1
2K	102.9	101.7	100.6	100.9	99.3	99.2	97.2	97.8	100.9	105.4
4K	103.0	102.5	101.4	101.2	99.9	98.9	95.7	95.5	94.1	99.5
8K	95.0	94.8	93.4	93.5	93.0	91.9	91.3	91.9	92.0	99.0
LP-B	108.7	108.3	107.2	107.6	106.6	106.1	105.4	106.4	107.6	115.8
51L	102.5	101.9	100.5	100.7	99.2	98.7	96.4	96.9	98.1	103.0
80BA	108.6	108.0	106.8	107.0	105.6	105.0	103.1	103.5	105.2	110.9
PND8	122.9	122.3	121.1	121.3	120.1	119.2	117.3	117.7	119.0	125.1

YF-12 INLET NOISE SUPPRESSION
 16147 FEB 04, '80 TEST 9950
 YF-12 INLET NOISE SUPPRESSION
 RUN 61
 SPIKE MIDWAY
 BYPASS DOORS OPEN
 6600 RPM

RUN	70	71	72	73	74	75	76	77	78	79
FREQ (Hz)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR10 F10 135° DEG
50	86.4	89.0	88.1	89.4	90.5	89.7	92.4	94.2	95.7	106.4
63	89.3	90.7	89.8	90.0	92.2	93.0	94.2	95.8	97.3	106.2
80	93.6	96.0	94.1	94.8	97.2	97.0	97.4	99.9	101.5	106.4
100	92.3	92.7	90.6	92.8	94.0	94.4	94.5	98.5	98.7	107.1
125	95.3	94.1	93.2	95.6	95.1	94.7	98.1	99.7	99.1	107.9
160	96.3	94.0	95.2	95.9	95.1	97.4	98.7	97.5	98.4	108.3
200	95.1	94.4	94.3	95.2	96.6	97.3	97.2	98.5	100.0	108.2
250	94.0	93.2	92.8	94.2	94.8	94.9	95.7	97.5	98.7	106.7
315	93.6	94.5	93.4	94.9	95.5	94.7	94.4	96.2	97.5	105.9
400	93.5	93.8	94.2	95.5	94.1	93.2	94.2	95.1	96.3	104.1
500	94.5	95.5	95.3	95.3	94.0	93.3	92.9	94.4	95.8	102.8
630	96.5	97.0	95.9	96.1	94.9	94.0	92.8	94.1	94.1	101.5
800	97.1	97.5	96.0	96.9	95.4	94.5	93.1	94.1	94.6	100.5
1K	96.5	96.0	94.7	94.9	93.9	93.2	92.8	93.8	95.8	99.1
1.25K	96.3	95.2	94.4	95.1	93.8	93.4	93.5	93.7	94.4	98.5
1.6K	97.3	96.0	94.9	95.9	95.0	95.3	94.1	95.2	99.1	99.8
2K	97.0	95.8	95.3	95.4	94.3	94.4	92.5	93.2	95.6	97.0
2.5K	97.5	96.7	96.0	95.8	94.3	94.3	91.4	93.0	92.8	94.3
3.15K	97.8	97.2	96.2	96.1	94.6	93.4	91.3	91.1	90.9	93.2
4K	95.7	95.6	94.7	94.1	92.4	92.2	91.2	91.6	90.1	92.4
5K	91.7	91.9	91.6	91.5	91.4	90.9	88.3	89.2	88.9	92.0
6.3K	89.4	88.9	87.6	87.8	87.8	86.6	85.7	86.1	85.7	89.5
8K	90.0	89.2	88.7	88.2	87.8	86.8	86.9	87.8	87.5	90.6
10K	85.7	86.9	85.8	85.2	84.7	84.6	83.7	85.7	86.8	92.3
63	95.5	97.8	96.2	96.9	99.0	99.0	99.9	102.1	103.6	111.1
125	99.7	98.4	98.1	99.7	99.6	100.5	102.2	103.4	103.5	112.6
250	99.0	98.8	98.3	99.4	100.5	100.6	100.7	102.2	103.6	111.8
500	99.8	100.4	100.0	100.4	99.1	98.3	98.1	99.3	100.9	107.7
1K	101.4	101.1	99.8	100.8	99.2	98.6	97.9	98.7	101.1	104.2
2K	102.0	101.0	100.2	100.5	99.2	99.5	97.6	98.7	101.4	102.4
4K	100.5	100.2	99.3	99.1	98.1	97.5	95.2	95.5	94.8	97.3
8K	93.5	93.8	92.3	92.1	91.8	90.9	90.4	91.4	91.5	95.7
LP-8	108.7	108.4	107.6	108.2	107.9	107.8	107.9	109.2	110.5	117.6
SIL	101.2	100.8	99.8	100.0	98.9	98.8	96.8	97.6	99.1	101.2
8DBA	107.6	107.1	106.2	106.4	105.4	105.1	103.8	104.7	106.5	110.4
PNOB	121.6	121.3	120.4	120.4	119.7	119.9	118.0	118.9	120.3	124.1
STOP	0									

YF-12 INLET NOISE SUPPRESSION
11111 FEB 15, '80 TEST 10021
YF-12 INLET NOISE SUPPRESSION
RUN 49
SPIKE AFT
BYPASS DOORS CLOSED
5000 RPM

RUN	78	79	80	81	82	83	84	85	86	87
FREQ (MHz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	78.9	82.2	81.3	82.7	81.9	79.8	84.0	87.8	89.3	94.9
63	78.6	79.6	78.6	79.4	80.4	82.4	85.9	87.1	88.8	92.7
80	79.8	80.1	79.4	80.0	83.0	84.3	85.0	86.5	87.3	93.8
100	82.1	81.0	78.9	81.5	81.9	81.8	82.7	85.5	86.1	93.9
125	82.8	81.3	80.6	83.5	83.4	82.5	85.2	87.5	85.0	94.5
160	81.9	81.2	81.5	82.7	82.7	83.2	87.3	87.4	84.2	97.6
200	82.5	84.2	82.6	84.0	83.6	84.7	85.2	86.8	84.6	99.7
250	85.2	84.8	85.0	86.5	86.1	84.6	85.1	86.4	84.6	99.0
315	86.5	86.8	85.3	87.1	86.0	84.1	85.8	85.7	86.8	98.8
400	87.6	87.6	87.4	88.4	87.5	88.1	85.4	86.0	86.7	97.8
500	89.9	90.4	89.7	90.2	89.1	89.4	88.6	88.7	88.9	99.0
630	91.2	91.7	91.1	91.2	91.2	91.9	90.8	91.1	90.7	98.8
800	92.0	92.8	91.5	91.8	91.2	91.8	90.3	90.0	90.0	97.1
1K	91.6	92.1	91.0	91.8	91.0	92.0	89.8	89.2	89.4	96.4
1.25K	92.3	92.1	90.2	91.1	90.6	91.9	90.2	88.4	88.3	94.9
1.6K	95.3	94.3	92.6	92.8	91.8	93.4	90.3	88.3	88.0	93.3
2K	97.9	96.8	94.0	95.5	93.8	94.4	91.0	88.8	87.7	92.3
2.5K	101.8	100.6	99.0	98.8	96.7	96.7	91.6	88.9	86.8	92.3
3.15K	100.2	99.6	98.0	98.2	96.3	96.0	91.8	87.2	84.7	91.7
4K	95.8	95.5	94.2	94.0	93.1	93.4	89.2	85.7	89.7	90.7
5K	93.4	93.9	92.5	92.2	91.9	91.7	86.5	82.8	81.2	89.6
6.3K	92.3	92.0	90.2	90.2	90.0	89.1	86.0	82.2	81.0	89.2
8K	92.9	93.0	91.5	91.0	90.4	89.7	88.9	87.8	85.3	97.2
10K	89.1	90.1	88.5	87.8	86.6	86.3	82.3	79.9	77.6	91.3
63	83.9	85.6	84.7	85.8	86.7	87.3	90.4	91.9	93.3	98.7
125	87.1	86.0	85.2	87.4	87.4	87.3	90.2	91.4	90.0	100.4
250	89.8	90.2	89.2	90.8	90.1	89.9	90.1	91.1	90.9	103.9
500	94.6	95.0	94.5	94.9	94.3	94.8	93.6	93.9	93.8	103.3
1K	96.7	97.1	95.7	96.4	95.7	96.7	94.9	94.0	94.1	101.0
2K	104.0	102.8	101.4	101.1	99.4	99.8	95.8	93.4	92.3	97.4
4K	102.2	101.8	100.3	100.3	99.0	98.9	94.5	90.4	87.9	95.5
8K	96.5	96.7	95.0	94.4	94.1	93.4	91.3	89.3	87.2	98.7
LP-B	107.4	106.9	105.5	105.6	104.4	104.7	102.2	101.3	100.8	109.7
SIL	101.0	100.6	99.1	99.3	98.0	98.4	95.0	92.6	91.4	98.0
8DBA	108.1	107.4	106.0	106.0	104.6	104.8	101.5	99.5	98.7	106.4
PND8	121.8	121.2	119.8	119.9	118.6	118.6	115.5	113.2	111.9	119.8

YF-12 INLET NOISE SUPPRESSION
 17154 FEB 06/80 TEST 9950
 YF-12 INLET NOISE SUPPRESSION
 RUN 73
 SPIKE MIDWAY
 BYPASS DOORS CLOSED
 8000 RPM

RUN	81	82	83	84	85	86	87	88	89	90
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	78.2	82.4	81.3	81.7	82.5	81.4	86.0	87.7	91.1	95.9
63	78.4	79.2	78.6	78.7	81.9	83.9	86.8	87.4	91.4	92.9
80	79.7	81.3	80.0	79.9	82.8	83.9	84.7	85.8	89.6	93.3
100	81.9	81.3	79.1	81.0	82.3	82.8	82.4	85.2	87.8	94.1
125	83.5	82.3	81.6	83.8	84.1	83.8	85.7	87.7	88.0	94.5
160	82.0	81.6	82.3	83.3	83.3	84.0	88.0	87.3	85.9	97.6
200	81.9	82.9	81.5	83.3	82.0	84.0	85.8	87.0	86.6	99.3
250	84.6	84.0	84.6	86.0	85.3	84.7	86.3	86.6	89.0	98.7
315	85.0	85.3	84.3	86.3	85.7	85.3	86.3	85.6	89.3	98.5
400	85.8	86.1	86.6	87.4	86.6	86.9	85.9	86.1	88.6	97.8
500	89.5	90.0	89.3	89.2	88.8	88.3	88.6	88.5	91.4	98.4
630	91.0	91.7	90.8	90.8	90.9	91.2	90.7	91.7	93.2	98.6
800	93.6	94.1	92.4	92.3	91.4	90.9	90.8	90.0	92.0	97.1
1K	92.1	92.1	91.3	91.7	91.1	91.2	90.0	89.1	91.2	96.8
1.25K	93.4	92.5	91.0	91.6	90.9	90.9	90.3	88.6	90.0	94.9
1.6K	93.8	92.5	91.1	91.5	91.1	91.8	89.8	88.0	89.5	92.6
2K	95.8	94.2	92.8	92.1	91.6	92.0	90.1	88.8	89.7	91.7
2.5K	105.0	103.7	102.0	101.2	99.1	97.5	92.1	89.9	89.1	92.4
3.15K	102.1	102.1	100.8	101.0	99.7	98.7	94.7	89.7	87.5	92.2
4K	95.2	95.5	94.2	93.8	92.8	92.9	89.2	86.1	85.4	90.3
5K	95.3	95.3	94.1	93.6	92.7	91.3	87.0	84.1	84.2	89.7
6.3K	93.9	92.9	91.5	91.8	91.3	90.7	87.3	83.2	83.9	89.9
8K	94.4	93.3	92.4	91.9	90.7	90.8	89.7	87.9	88.6	98.3
10K	90.4	90.4	89.8	88.2	86.8	86.5	84.0	79.8	81.7	92.6
63	83.6	86.1	84.9	85.1	87.2	88.0	90.4	91.8	95.5	99.0
125	87.3	86.5	86.0	87.5	88.1	88.2	90.7	91.7	92.1	100.5
250	88.8	88.9	88.5	90.1	89.8	89.5	90.4	91.2	92.2	103.6
500	94.0	94.6	94.0	94.1	93.9	94.0	93.6	94.2	96.2	103.1
1K	97.9	97.8	96.4	96.6	95.9	95.8	95.0	94.0	95.9	101.0
2K	105.8	101.5	102.8	102.1	100.4	99.4	95.5	93.7	94.2	97.0
4K	103.7	103.7	102.4	102.4	101.2	100.3	96.4	92.1	90.7	95.4
8K	98.0	97.2	96.1	95.7	94.8	94.8	92.4	89.6	90.5	99.8
LP-8	108.9	108.3	106.9	106.6	105.5	104.4	102.7	101.6	103.1	109.7
SIL	102.4	102.0	100.5	100.4	99.2	98.5	95.7	93.3	93.6	97.9
80BA	109.7	109.0	107.5	107.2	105.9	105.2	102.1	100.0	100.9	106.5
PNOB	123.7	122.8	121.4	121.4	120.4	119.7	117.0	114.1	114.2	120.1
STOP	0									

VF-12 INLET NOISE SUPPRESSION
 12:00 FEB 07, '80 TEST 9950
 VF-12 INLET NOISE SUPPRESSION
 RUN-83
 SPIKE MIDWAY
 BYPASS DOORS CLOSED
 6200 RPM

RUN	103	104	105	106	107	108	109	110	111	112
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	80.0	82.8	81.8	83.2	84.4	84.1	86.7	87.8	90.9	100.8
63	84.7	86.1	86.1	86.0	87.7	89.1	89.4	91.8	94.9	100.8
80	84.2	86.6	85.8	85.9	88.6	88.4	89.2	92.0	94.8	99.9
100	87.9	87.9	85.0	87.4	89.0	88.6	88.8	92.2	94.7	101.0
125	88.2	87.4	84.6	88.5	89.0	88.5	91.6	93.4	94.0	101.7
160	88.2	87.0	87.9	88.7	87.9	89.8	92.6	91.0	97.5	103.9
200	87.1	87.8	87.2	88.2	89.1	89.9	91.4	92.1	94.4	103.7
250	88.6	88.2	87.9	88.8	89.8	88.5	89.2	91.4	94.4	103.1
315	87.6	88.7	87.7	89.4	89.7	89.6	90.1	89.9	93.5	102.9
400	89.1	89.8	90.2	90.9	89.7	88.6	88.3	89.3	92.7	101.8
500	91.8	92.9	92.5	92.6	91.2	89.7	88.1	88.3	91.4	100.0
630	93.7	93.8	93.4	93.3	92.0	90.8	88.3	88.8	92.2	98.5
800	94.9	95.6	94.2	94.7	93.5	91.3	88.3	88.7	97.7	97.5
1K	94.0	94.4	92.4	92.4	91.1	89.9	87.7	88.1	93.1	97.7
1.25K	94.7	94.6	93.4	93.6	92.1	91.5	89.5	89.7	95.7	100.1
1.6K	96.1	95.5	94.8	94.3	92.9	93.0	90.5	89.9	96.3	101.3
2K	96.3	95.5	94.6	94.2	92.8	92.6	89.2	87.1	90.7	98.8
2.5K	97.8	97.3	96.1	95.7	93.4	92.7	88.5	87.0	88.7	94.1
3.15K	101.0	100.8	99.6	99.4	97.2	95.9	91.9	88.0	87.9	93.1
4K	98.7	99.2	98.13	97.9	97.11	96.9	92.8	88.9	88.2	93.4
5K	93.7	94.4	94.0	94.1	93.6	93.0	89.0	85.9	87.1	94.2
6.3K	91.1	90.6	89.3	90.0	89.6	88.8	85.7	82.7	84.2	90.8
8K	91.6	91.1	90.4	90.7	89.6	89.8	88.4	86.8	90.5	93.8
10K	87.1	87.9	87.5	86.9	86.1	85.7	85.6	84.8	90.4	98.1
63	88.2	90.2	89.3	89.6	92.0	92.5	93.4	95.7	98.7	105.1
125	92.9	92.2	91.4	93.0	93.4	93.8	96.0	97.1	98.6	107.2
250	92.6	93.0	92.4	93.6	94.1	94.1	95.2	96.0	98.9	108.0
500	96.7	97.2	97.0	97.2	95.8	94.4	93.0	93.6	96.9	105.0
1K	99.3	99.7	98.2	98.4	97.1	95.7	93.3	93.6	98.8	103.4
2K	101.6	101.0	100.0	99.5	97.8	97.5	94.2	93.0	97.8	103.0
4K	103.5	103.6	102.7	102.4	101.0	100.3	96.3	92.5	92.6	98.3
8K	95.1	94.8	94.0	94.3	93.5	93.1	91.6	89.8	93.9	100.0
LP-8	107.6	107.6	106.7	106.7	105.6	105.0	103.4	103.5	104.6	113.8
SIL	101.5	101.4	100.3	100.1	98.4	97.9	94.6	93.1	94.4	101.6
BDNA	107.9	107.8	106.8	106.6	105.2	104.8	101.3	99.8	103.7	109.4
PNOB	122.3	122.2	121.2	121.2	119.8	119.3	116.5	114.6	117.3	123.4
PSIOPa. 0										

YF-12 INLET NOISE SUPPRESSION
 16:15 MAY 23, '60 TEST 10915
 YF-12 INLET NOISE SUPPRESSION
 RUN 87
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	16	17	18	19	20	21	22	23
FREQ (Hz)	Tr 1 K1 O. DEG	Tr 2 K6 O. DEG	Tr 3 K3 O. DEG	Tr 4 K8 O. DEG	Tr 5 K5 O. DEG	Tr 6 K10 O. DEG	Tr 7 K14 O. DEG	Tr 8 K12 O. DEG
50	125.9	129.6	121.0	126.4	139.9	116.7	125.2	
63	127.3	131.0	122.8	127.6	141.3	118.1	125.4	
80	128.4	132.1	124.4	129.2	142.5	119.7	125.6	
100	129.8	133.2	126.4	130.3	143.9	121.3	125.4	
125	131.3	133.8	128.6	131.1	144.2	122.5	125.8	
160	132.8	133.7	129.5	131.9	145.2	123.9	126.4	
200	134.9	133.9	131.3	133.1	146.1	125.6	127.4	
250	137.7	133.5	133.6	133.8	146.6	127.6	129.5	
315	141.5	133.0	132.2	132.8	148.3	129.8	129.0	
400	143.9	133.5	130.1	132.0	146.3	132.1	129.0	
500	142.1	133.2	127.4	130.4	145.8	136.3	128.7	
630	138.0	131.6	126.7	130.6	145.0	138.8	129.7	
800	133.4	126.8	127.2	135.4	144.0	136.0	131.0	
1K	131.5	123.8	128.5	132.2	142.9	131.1	127.5	
1.25K	133.1	122.8	127.6	128.2	141.9	131.1	128.3	
1.6K	131.6	125.0	127.3	130.4	140.5	133.1	128.6	
2K	131.6	127.4	128.4	133.5	140.2	134.3	131.6	
2.5K	133.5	136.4	134.8	138.8	143.4	142.4	138.6	
3.15K	132.8	136.7	135.1	139.2	144.4	143.7	140.5	
4K	133.9	130.8	129.4	133.7	139.4	139.3	135.6	
5K	134.0	130.7	129.8	133.4	138.9	138.9	135.3	
6.3K	134.6	131.7	130.5	133.9	140.1	140.5	137.4	
8K	133.7	130.3	129.3	132.3	138.6	139.3	136.7	
10K	132.4	129.4	129.0	131.4	137.7	139.1	136.8	
125	136.3	134.3	133.1	135.9	149.1	127.5	130.6	
250	141.6	138.3	137.2	138.1	151.1	132.8	133.5	
500	146.7	137.6	133.1	135.9	150.5	141.3	133.9	
1K	147.5	129.5	132.6	137.6	147.8	138.2	133.8	
2K	140.1	137.2	136.3	140.4	146.4	143.4	139.7	
4K	140.9	138.5	137.1	141.1	146.4	146.0	142.6	
8K	131.3	138.4	135.3	134.4	143.7	144.4	141.8	
LP-8	139.2	150.5	146.0	143.8	147.1	150.5	147.2	
51L	131.1	139.5	135.1	135.3	139.7	146.9	138.6	
ODDA	159.5	148.1	143.7	142.5	146.4	154.2	147.1	
P100	153.5	162.4	159.2	157.7	161.3	164.8	161.7	

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16115 MAY 23, 80 TEST 10916
 YF-12 INLET NOISE SUPPRESSION
 RUN 88
 SPIKE FORWARD
 BYPASS VALVES OPEN
 6000 RPM

RUN	27	28	29	30	31	32	33	34
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	104.3	127.7	131.2	122.4	127.9	143.4	119.5	119.9
63	104.5	129.0	132.1	123.7	129.4	144.4	120.2	121.4
80	106.5	130.7	133.4	126.1	131.0	145.4	121.4	122.0
100	110.4	132.2	135.2	129.4	132.5	146.4	123.1	123.8
125	117.4	133.8	135.7	132.1	134.1	147.6	124.1	125.8
160	118.7	135.4	136.8	133.3	134.7	147.7	125.6	127.1
200	122.8	137.4	138.3	135.0	136.4	148.8	127.9	129.2
250	127.8	140.0	138.6	135.9	137.1	149.2	131.0	131.8
315	128.6	143.6	138.8	135.2	136.8	150.0	133.2	133.7
400	129.0	146.7	139.4	133.5	136.2	150.5	135.5	133.8
500	125.2	145.5	138.2	131.4	135.2	150.2	141.1	133.7
630	123.4	141.9	135.6	130.8	135.3	150.0	143.9	138.0
800	123.9	137.2	131.5	131.7	140.7	149.4	141.3	137.7
1K	123.6	135.8	128.3	133.0	146.9	148.3	137.9	133.0
1.25K	124.6	136.9	127.3	132.4	133.0	147.8	137.1	134.4
1.6K	124.9	135.6	128.9	132.2	134.9	146.7	139.4	135.4
2K	126.8	135.1	130.5	131.9	137.4	146.0	139.3	136.4
2.5K	131.1	137.1	133.4	133.4	137.7	145.6	142.5	140.1
3.15K	135.3	141.1	136.9	137.1	140.9	146.4	150.5	147.3
4K	132.6	140.2	136.8	136.2	140.5	147.7	150.0	147.0
5K	129.4	137.4	134.0	133.7	137.2	146.6	147.2	143.4
6.3K	128.5	136.6	132.7	132.4	135.6	145.1	146.4	142.4
8K	127.4	136.1	132.1	131.7	134.6	144.0	145.8	142.1
10K	126.2	134.6	130.6	130.9	133.1	143.1	144.7	141.0
63	110.0	134.1	137.1	129.1	134.4	149.2	125.2	125.9
125	121.4	138.7	140.8	136.7	138.7	152.0	129.2	130.5
250	131.8	145.8	143.4	140.1	141.6	154.1	136.0	136.7
500	131.3	149.9	142.8	136.8	140.4	155.0	146.1	140.4
1K	128.8	141.5	134.2	137.2	142.7	153.3	143.9	140.3
2K	133.2	140.8	136.1	137.3	141.6	150.9	145.4	142.6
4K	137.9	144.6	140.9	140.7	144.6	151.7	154.2	151.0
8K	132.2	140.6	136.7	136.5	139.3	148.9	150.4	146.6
LP-8	141.3	153.3	149.1	146.8	150.2	161.4	156.8	153.4
SIL	133.3	142.3	137.1	138.4	143.0	152.0	147.9	144.6
ODBA	141.3	151.0	145.9	145.4	149.4	159.1	157.1	153.7
PNDB	156.1	165.1	161.1	160.3	164.0	173.2	171.1	167.8

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16:15 MAY 23, 1960 TEST 10915
 YF-12 INLET NOISE SUPPRESSION
 RUN 39
 SPIKE FORWARD
 BYPASS DDBMS OPEN
 6200 RPM

NUN	38	39	40	41	42	43	44	45
FREQ (Hz)	Tp 1 K1 0. DEG	Tp 2 K6 0. DEG	Tp 3 K3 0. DEG	Tp 4 K8 0. DEG	Tp 5 K5 0. DEG	Tp 6 K10 0. DEG	Tp 7 K14 0. DEG	Tp 8 K12 0. DEG
50	104.5	128.1	132.0	122.9	128.4	143.7	119.5	118.6
63	104.5	129.1	132.4	124.0	129.7	144.8	120.4	120.4
80	105.7	131.1	133.8	126.3	131.2	146.1	121.3	121.7
100	110.6	132.4	135.4	129.9	133.0	147.4	123.5	123.7
125	117.3	133.8	136.2	133.0	134.7	148.2	124.7	125.6
160	119.4	135.5	137.1	134.3	135.5	148.3	126.1	127.0
200	123.4	139.0	139.0	135.8	137.3	149.1	128.2	129.3
250	128.4	140.4	139.3	136.7	137.5	149.6	131.3	131.9
315	129.1	144.0	139.6	135.7	137.2	150.5	133.9	134.3
400	129.5	147.2	140.3	134.1	136.8	151.2	135.8	134.4
500	126.0	146.0	138.9	132.1	136.0	150.7	141.8	134.5
630	124.4	142.4	136.0	131.4	135.6	150.8	144.3	137.7
800	124.5	138.0	132.2	132.5	141.4	150.1	141.8	139.3
1K	123.5	136.4	128.9	133.7	137.7	149.0	138.6	136.2
1.25K	124.4	137.7	127.8	133.0	133.7	148.7	138.1	138.4
1.6K	125.4	136.2	129.4	132.8	135.5	147.6	141.0	134.9
2K	127.1	135.5	130.8	132.3	137.9	147.1	140.5	137.6
2.5K	127.9	136.5	132.6	132.9	137.5	146.6	143.1	141.2
3.15K	132.3	138.9	134.6	134.9	138.8	146.4	149.0	142.6
4K	130.6	138.6	134.8	134.5	138.6	146.8	150.2	145.4
5K	128.3	136.6	132.9	132.9	136.3	146.6	146.9	142.8
6.3K	127.0	135.8	131.7	131.5	134.6	145.6	146.2	141.4
8K	125.8	135.3	130.8	130.7	133.5	144.3	145.7	141.1
10K	124.8	134.2	129.6	130.0	132.1	143.4	144.5	140.1
63	121.5	134.4	137.6	129.4	134.7	149.8	125.2	125.2
125	121.8	138.8	141.0	137.5	139.3	152.8	129.7	130.4
250	132.4	146.3	144.1	140.9	142.1	154.5	136.5	137.1
500	131.9	150.4	143.5	137.4	140.9	155.7	146.6	140.6
1K	128.9	142.2	134.8	137.9	143.4	154.1	144.6	142.9
2K	132.6	140.9	135.9	137.5	141.9	151.9	146.5	143.4
4K	135.5	143.0	138.9	139.0	142.8	151.4	153.6	148.6
8K	130.7	139.9	135.5	135.5	138.3	149.3	150.3	145.7
LP-B	140.3	153.4	149.3	146.8	150.1	162.0	156.7	152.3
51L	132.3	142.0	136.6	138.1	142.7	152.4	148.2	145.0
80BA	139.8	150.8	145.4	144.8	148.9	159.6	156.9	152.4
PHDB	154.4	164.3	160.2	159.4	163.1	173.3	171.0	166.7

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
16:15 MAY 23, 1960 TEST 10915
YF-12 INLET NOISE SUPPRESSION
RUN 90

SPIKE FORWARD
BYPASS DOORS OPEN
6400 RPM

RUN	50	51	52	53	54	56	57	58
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	104.3	128.2	131.7	122.5	128.4	144.4	119.8	119.8
63	104.3	129.8	132.7	123.9	130.1	145.7	120.2	120.6
80	105.5	130.9	133.7	126.5	131.8	147.0	121.4	122.0
100	110.7	132.4	135.5	130.4	133.5	148.1	123.6	124.0
125	117.0	134.3	136.2	133.0	134.9	149.4	125.0	125.9
160	119.8	135.6	137.3	134.8	136.0	149.2	126.4	127.3
200	123.9	136.0	139.1	136.2	137.5	150.2	128.4	129.7
250	128.6	140.5	149.7	137.0	138.0	150.5	131.3	132.2
315	129.3	144.1	140.3	136.1	137.8	151.4	134.4	134.8
400	129.8	147.5	141.0	134.4	137.2	152.4	136.2	135.1
500	126.3	146.4	149.8	132.7	136.4	152.0	142.7	135.2
630	124.7	142.9	136.5	131.9	136.2	152.1	145.0	137.1
800	124.8	139.3	132.8	133.0	141.9	151.6	142.6	139.3
1K	123.9	136.8	129.6	134.4	138.1	150.3	139.4	140.6
1.25K	124.4	138.0	128.3	133.6	134.3	150.1	138.5	139.2
1.6K	125.3	136.6	129.6	133.2	135.8	149.0	141.1	136.4
2K	127.2	135.8	130.9	132.6	138.2	148.3	140.8	137.8
2.5K	128.7	136.1	132.1	132.7	137.3	147.9	143.0	139.3
3.15K	129.8	137.1	132.5	133.1	137.2	147.2	147.4	141.1
4K	125.4	136.9	132.6	132.7	136.7	146.9	149.2	144.1
5K	127.0	135.7	131.4	131.8	135.1	146.9	146.0	141.8
6.3K	125.7	135.1	130.5	130.6	133.7	146.4	145.5	140.8
8K	124.6	134.6	129.6	129.9	132.6	145.2	145.1	140.2
10K	123.7	133.8	128.5	129.3	131.4	144.4	143.8	139.3
63	122.0	134.5	137.8	129.4	135.1	150.6	125.3	125.7
125	122.0	139.1	141.2	137.9	139.7	153.7	129.9	130.7
250	132.6	146.4	144.5	141.2	142.5	155.5	136.8	137.5
500	132.2	150.7	144.2	137.9	141.4	156.9	147.3	140.7
1K	129.1	142.5	135.4	138.5	143.9	155.5	145.3	144.5
2K	132.1	141.0	135.8	137.6	142.0	153.2	146.6	142.7
4K	133.3	141.4	137.0	137.4	141.2	151.8	152.5	147.3
8K	129.5	139.3	134.4	134.7	137.4	150.2	149.6	144.9
LP-8	139.6	153.5	149.5	146.8	150.1	163.0	156.1	151.8
SIL	131.5	141.6	136.0	137.8	142.4	153.5	148.1	144.9
OCBA	138.7	150.7	145.2	144.6	148.7	160.7	158.2	151.8
PNOB	153.0	163.5	159.3	158.7	162.4	174.2	170.3	166.0

*STEP 0

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16125 MAY 23, 1960 TEST 10915
 YF-12 INLET NOISE SUPPRESSION
 RUN 91
 SPIRE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN	62	63	64	65	66	67	68	69
FREQ (MC)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	103.1	128.8	131.8	123.2	128.7	145.2	119.3	118.9
63	103.9	129.7	132.8	124.6	130.3	146.1	120.6	120.7
80	106.7	131.1	134.0	126.5	131.8	147.5	121.8	122.0
100	111.6	132.8	135.6	130.6	133.4	148.5	123.8	124.5
125	117.2	134.4	136.7	133.0	134.9	149.7	125.0	126.1
160	120.7	136.1	137.7	135.4	136.3	149.8	126.7	127.6
200	124.5	138.4	139.7	136.8	138.0	150.4	128.7	130.0
250	129.2	140.6	140.0	137.5	138.4	150.9	131.8	132.4
315	129.7	144.3	140.8	136.3	138.2	151.8	135.0	135.1
400	130.2	147.7	141.6	134.8	137.8	152.9	136.7	135.7
500	127.0	146.8	140.2	133.0	136.8	152.6	143.2	135.7
630	124.9	143.0	136.9	132.2	136.6	152.5	145.2	138.3
800	125.4	138.6	132.7	133.2	142.7	151.9	142.7	141.1
1K	123.8	137.2	129.7	134.9	138.7	150.8	140.0	136.4
1.25K	124.7	138.4	128.5	134.3	135.1	150.7	139.4	136.6
1.6K	125.8	136.9	129.9	133.7	136.4	149.6	142.1	135.5
2K	127.3	136.1	131.0	132.8	138.5	149.0	142.6	138.1
2.5K	128.2	136.2	131.8	132.6	137.3	148.6	143.1	138.7
3.15K	128.3	136.3	131.5	132.3	136.6	147.8	146.0	140.4
4K	127.0	135.8	131.1	131.7	135.6	147.1	147.1	142.6
5K	126.2	135.1	130.5	131.1	134.4	147.0	145.8	141.2
6.3K	125.2	134.8	129.9	130.2	133.3	146.7	145.0	140.4
8K	124.0	134.4	129.1	129.5	132.3	145.6	144.5	139.7
10K	123.1	133.8	128.1	129.0	131.2	144.8	143.5	139.0
63	109.6	134.7	137.7	129.8	135.2	151.1	125.5	125.5
125	122.6	139.4	141.5	138.2	139.8	154.2	130.1	131.0
250	133.1	146.6	145.0	141.7	143.0	155.9	137.3	137.8
500	132.7	151.0	144.7	138.2	141.9	157.4	147.7	141.5
1K	129.5	142.9	135.5	139.0	144.6	155.9	145.8	143.4
2K	132.0	141.2	135.7	137.8	142.3	153.9	147.4	142.4
4K	132.0	140.5	135.8	136.5	140.4	152.1	151.1	146.3
8K	129.0	139.1	133.9	134.4	137.1	150.5	149.2	144.5
LP-6	139.5	153.7	149.8	147.0	150.4	163.5	155.7	151.2
SIL	131.1	141.5	135.7	137.8	142.4	154.0	148.1	144.0
WDA	138.3	150.8	145.2	144.6	148.9	161.2	155.8	151.0
PWDB	152.3	163.6	158.9	158.5	162.2	174.6	169.4	165.1

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
16125 MAY 23, 1960 TEST 10915
YF-12 INLET NOISE SUPPRESSION
RUN 99

SPIKE FORWARD
BYPASS DOORS CLOSED
5000 RPM

HUN	73	74	75	76	77	78	79	80
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	103.9	129.2	132.0	123.9	129.9	131.0	116.6	122.1
63	104.6	130.5	132.8	125.7	130.9	134.7	118.2	122.5
80	105.2	131.8	134.0	127.6	132.9	134.7	119.3	123.0
100	110.7	133.4	135.5	131.0	135.1	136.5	120.9	124.8
125	114.7	134.8	136.7	132.9	136.4	139.9	121.6	125.7
160	121.5	136.7	138.0	136.6	138.0	139.4	122.5	127.1
200	124.4	139.2	140.3	138.3	139.3	138.2	123.0	128.9
250	126.3	141.0	141.4	137.8	139.4	137.8	124.8	127.1
315	125.3	143.8	142.1	136.1	139.2	136.0	127.3	126.9
400	122.5	146.3	142.8	134.5	138.4	135.0	129.2	126.7
500	120.2	146.1	141.7	133.1	137.1	134.1	133.2	126.9
630	117.7	143.0	137.9	132.7	136.9	134.7	135.9	127.9
800	120.2	139.5	133.3	133.5	141.4	134.8	133.6	129.4
1K	119.2	138.4	129.3	134.3	138.0	133.9	129.1	127.3
1.25K	119.1	138.9	127.3	133.8	134.9	134.0	129.1	125.7
1.6K	119.8	136.6	126.9	131.9	134.3	134.0	131.6	127.4
2K	122.8	135.9	128.2	131.7	135.6	135.0	131.1	130.4
2.5K	133.3	139.8	134.6	135.4	139.5	143.2	138.1	140.4
3.15K	132.9	141.5	137.3	137.5	142.1	144.8	140.9	142.1
4K	124.4	138.1	133.2	132.8	136.3	138.2	136.9	134.9
5K	126.4	136.5	130.9	131.8	134.9	138.2	136.7	135.1
6.3K	127.3	137.4	132.4	132.8	136.1	140.4	139.3	137.8
8K	125.5	136.8	131.8	131.9	134.7	138.5	137.6	137.5
10K	124.9	136.0	131.0	131.7	134.1	137.5	137.5	137.1
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63	109.4	135.4	137.7	130.8	136.2	138.6	123.0	127.3
125	122.6	140.0	141.6	138.9	141.4	143.6	126.5	130.6
250	130.2	146.5	146.1	142.3	144.2	142.2	130.1	131.4
500	125.3	150.2	146.0	138.3	142.3	139.4	138.3	132.0
1K	124.3	143.7	145.4	138.6	143.7	139.0	135.9	132.6
2K	133.8	142.6	136.1	138.1	141.9	144.2	139.6	141.0
4K	134.5	144.0	139.4	139.8	143.7	146.4	143.4	143.8
8K	130.8	141.5	136.6	136.9	139.8	143.8	143.0	142.3
<hr/>								
LP-8	139.2	153.9	150.9	147.8	151.2	152.0	148.0	147.7
SIL	130.9	143.4	137.0	138.8	143.1	143.2	139.7	139.1
BOBA	139.2	151.6	146.8	145.7	149.6	151.0	148.0	147.9
PNOB	153.6	165.7	161.5	160.9	164.8	166.3	162.3	162.4

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16:25 MAY 23, '60 TEST 10915
 YF-12 INLET NOISE SUPPRESSION
 RUN 103
 SPIKE FORWARD
 BYPASS DRUMS CLOSED
 5600 RPM

NUN	84	85	86	87	88	89	90	91
TR 1 K1 (H4)	TR 2 K6 0: DEG	TR 3 K3 0: DEG	TR 4 K8 0: DEG	TR 5 K5 0: DEG	TR 6 K10 0: DEG	TR 7 K14 0: DEG	TR 8 K12 0: DEG	
50	106.4	131.0	132.6	124.7	131.2	132.0	117.3	117.3
63	108.2	132.2	133.3	127.1	132.4	135.2	118.8	118.8
80	108.3	133.2	134.2	128.5	133.9	134.6	119.9	119.4
100	112.1	134.3	135.8	131.9	135.9	137.5	121.9	123.1
125	117.2	136.1	137.2	134.9	138.0	141.8	122.9	126.2
160	123.1	137.7	138.2	138.2	139.6	140.8	124.0	127.1
200	126.5	140.1	140.7	140.5	141.7	141.0	125.3	128.0
250	130.2	142.7	143.1	141.0	142.4	141.3	127.1	129.3
315	129.5	144.6	144.4	139.0	142.1	139.4	130.0	130.4
400	125.9	146.8	145.9	136.6	141.3	138.6	131.4	130.2
500	123.6	147.4	145.5	135.4	139.9	138.0	136.6	130.2
630	121.6	144.8	142.1	135.1	140.0	139.1	139.0	132.4
800	122.5	141.6	136.3	136.0	144.0	138.5	136.4	132.8
1K	121.8	140.6	131.6	137.2	140.2	137.4	132.3	130.7
1.25K	123.6	141.5	129.8	136.8	138.0	138.7	132.3	129.3
1.6K	124.1	139.5	130.1	135.1	137.4	138.8	134.3	131.0
2K	124.9	138.6	130.7	134.6	138.5	138.7	133.9	133.0
2.5K	130.3	139.5	132.1	135.0	138.3	140.7	137.5	136.9
3.15K	133.3	142.6	136.0	138.1	142.1	146.7	144.0	143.4
4K	131.6	142.2	136.6	137.8	141.7	144.9	141.9	140.0
5K	128.5	139.8	134.8	135.4	138.3	142.5	139.8	137.5
6.3K	128.1	138.7	133.4	134.2	137.2	142.6	141.0	140.1
8K	127.3	138.3	133.1	134.2	136.8	141.8	140.2	138.8
10K	126.0	137.4	132.5	133.4	135.7	140.3	140.1	138.6
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63	112.5	137.0	138.2	131.8	137.4	138.9	123.5	123.4
125	124.4	141.1	142.0	140.5	142.9	145.2	127.8	130.5
250	133.8	147.6	147.8	145.0	146.8	145.4	132.7	134.1
500	128.8	151.2	149.6	140.5	145.2	143.4	141.4	135.8
1K	127.5	146.0	138.3	141.4	146.2	143.0	138.9	135.8
2K	132.2	144.0	135.8	139.7	142.9	144.3	140.3	139.1
4K	136.3	146.5	140.6	142.0	145.8	149.8	147.0	145.7
8K	132.0	142.9	137.8	138.7	141.4	146.5	145.2	144.0
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LP-8	140.6	155.3	153.0	150.1	153.4	154.5	150.7	149.1
SIL	132.0	145.5	138.2	141.0	145.0	145.7	142.1	140.2
008A	140.1	153.3	149.1	147.9	151.8	153.6	150.8	149.3
PA0B	154.9	167.3	162.5	162.6	166.2	168.8	165.1	163.9

*STDP = 0

Add 4.0 dB to all values of K8

YF-12 INLET NOISE SUPPRESSION
 16138 MAY 23, 1980 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 107
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6000 RPM

HUN	17	18	19	20	22	23	24	25
FREQ (Hz)	TR 1 K1 0. DEG	T4 2' K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	113.4	131.6	133.2	129.0	131.7	122.5	117.4	116.3
63	114.0	133.1	133.9	131.3	133.1	125.3	118.9	118.3
80	114.4	134.3	134.9	132.5	134.7	124.6	120.5	119.3
100	115.8	135.4	135.7	135.4	136.4	128.3	122.1	122.8
125	118.7	136.7	136.9	138.2	138.6	132.6	124.0	126.6
160	122.2	138.3	138.0	141.0	140.1	130.6	125.1	127.4
200	126.7	140.9	140.2	144.6	142.5	132.8	126.6	128.9
250	130.5	143.4	143.3	145.6	143.8	132.4	128.6	129.9
315	130.1	145.2	145.1	143.9	143.6	130.9	131.2	131.9
400	126.8	147.8	147.2	141.4	142.8	130.6	132.4	131.2
500	124.3	148.1	147.1	140.1	141.3	130.1	138.1	131.9
630	123.3	146.0	144.3	140.1	141.7	131.5	141.1	136.0
800	123.3	142.9	138.4	140.9	145.3	130.3	138.7	136.2
1K	122.7	142.0	133.2	142.1	141.5	129.4	134.4	131.8
1.25K	125.2	142.8	131.2	141.8	139.8	131.1	134.1	133.2
1.6K	125.0	141.1	132.0	140.6	139.2	130.7	136.9	135.4
2K	125.6	140.4	132.2	140.1	140.6	130.9	136.3	136.4
2.5K	128.4	140.5	133.0	140.0	139.6	131.8	139.3	139.9
3.15K	130.9	142.4	134.7	141.6	142.0	136.8	147.3	143.8
4K	131.8	143.7	137.3	143.6	144.3	139.1	146.6	144.8
5K	129.7	142.6	137.6	142.6	142.3	137.5	143.9	141.2
6.3K	128.2	141.1	136.7	140.3	139.9	135.5	143.4	140.6
8K	127.4	139.7	135.2	139.7	138.9	134.3	142.9	140.7
10K	126.2	138.7	134.5	139.1	138.0	133.0	142.0	139.2
63	118.7	137.9	138.9	136.0	138.1	129.1	123.9	122.9
125	124.5	141.7	141.8	143.5	143.4	135.6	128.7	130.8
250	134.2	148.3	148.1	149.5	148.1	136.9	134.0	135.2
500	129.8	152.1	151.2	145.3	146.8	135.5	143.3	138.4
1K	128.7	147.4	140.2	146.4	147.6	135.1	141.0	138.9
2K	131.4	145.5	137.2	145.0	144.6	135.9	142.5	142.4
4K	135.7	147.7	141.5	147.5	147.7	142.7	150.9	148.3
8K	132.1	144.7	140.4	144.5	143.8	139.2	147.6	145.0
LP-8	140.6	156.3	154.1	154.9	154.9	146.7	153.7	151.3
51L	131.9	146.8	139.6	146.3	146.7	137.9	144.8	143.2
00BA	139.7	154.5	150.5	153.1	153.4	146.1	154.0	151.6
PND8	154.5	168.4	163.5	167.8	168.0	161.1	168.0	165.8

Add 10.0 dB to all values of K10

YF-12 INLET NOISE SUPPRESSION
 16138 MAY 23, 1960 TEST 109J3
 YF-12 INLET NOISE SUPPRESSION
 RUN 109
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6200 RPM

RUN	29	30	31	32	33	34	35	36
FREQ (Hz)	TR 1 K1 0: DEG	TR 2 K6 0: DEG	TR 3 K3 0: DEG	TR 4 K8 0: DEG	TR 5 K5 0: DEG	TR 6 K10 0: DEG	TR 7 K14 0: DEG	TR 8 K12 0: DEG
50	117.6	131.5	133.0	129.4	131.6	122.3	117.3	116.0
63	118.1	133.1	134.2	131.0	133.0	125.1	119.5	118.1
80	118.0	134.8	135.2	132.6	134.8	124.3	120.6	119.4
100	118.4	136.1	136.0	135.5	136.7	128.9	122.5	123.4
125	120.5	136.9	136.9	138.0	138.5	132.9	124.3	126.6
160	123.0	138.6	137.8	140.7	139.7	129.9	125.3	127.7
200	128.0	141.3	139.9	145.1	142.5	133.5	126.9	129.3
250	131.6	144.0	143.4	145.8	144.1	133.0	129.3	130.7
315	131.3	145.5	144.8	144.1	144.0	130.8	131.7	132.5
400	128.2	148.0	147.5	142.0	143.3	131.4	132.9	132.0
500	125.5	148.5	147.5	140.2	141.8	131.0	138.9	132.9
630	124.0	146.5	145.0	140.3	142.1	132.2	141.1	136.0
800	124.0	143.5	139.3	141.4	145.7	130.9	139.3	137.3
1K	124.7	142.7	143.7	142.4	142.0	130.2	136.4	143.8
1.25K	127.0	143.6	131.6	142.3	140.5	132.6	134.8	138.6
1.6K	125.9	141.8	132.5	141.1	139.8	131.7	138.1	135.9
2K	126.3	141.1	132.6	140.6	141.3	132.0	138.0	136.7
2.5K	127.8	140.8	133.2	140.4	139.9	132.1	139.0	138.5
3.15K	128.5	140.9	133.1	140.6	140.3	134.1	143.5	142.6
4K	129.3	141.4	134.3	141.6	141.5	136.6	145.4	144.4
5K	128.7	140.9	135.1	141.2	140.8	138.2	142.8	140.6
6.3K	128.2	140.9	135.3	139.8	139.2	134.7	142.5	139.6
8K	127.6	139.3	134.7	139.1	138.1	133.1	142.3	139.5
10K	126.6	138.4	134.0	138.5	137.1	132.0	141.3	138.4
63	122.7	138.1	139.0	136.0	138.1	128.9	124.1	122.8
125	125.8	142.1	141.7	143.3	143.3	135.7	129.0	131.0
250	135.4	148.7	147.9	149.8	148.4	137.4	134.5	135.8
500	131.0	152.5	151.6	145.7	147.2	136.3	143.5	138.8
1K	130.2	148.0	140.9	146.8	148.1	136.1	142.0	145.7
2K	131.5	146.0	137.5	145.5	145.2	136.7	143.2	141.9
4K	133.6	145.9	139.1	145.9	145.7	140.5	148.8	147.6
8K	132.3	144.2	139.4	143.9	143.0	138.2	146.8	144.0
LP-B	140.7	156.5	154.2	154.9	154.8	146.1	152.7	151.7
SIL	131.8	146.6	139.2	146.1	146.3	137.8	144.7	145.1
ODBA	139.2	154.5	150.9	152.9	153.0	145.1	152.8	151.9
PND8	153.6	167.6	163.2	166.9	166.9	159.9	166.9	165.8

Add 10.0 dB to all values of K10

YF-12 INLET NOISE SUPPRESSION
 16:38 MAY 23, 60 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 111
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

RUN	40	41	42	43	44	45	46	47
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K16 0. DEG	TR 8 K12 0. DEG
50	115.0	132.1	133.2	126.6	130.6	123.4	117.6	117.0
63	115.8	132.7	134.1	128.8	132.3	125.6	119.4	118.8
80	116.1	134.1	134.7	130.4	133.7	125.0	120.6	120.1
100	116.6	135.6	135.8	133.3	135.6	129.9	122.5	123.6
125	118.9	137.1	137.0	135.6	137.1	133.5	124.3	127.2
160	121.5	138.8	137.9	137.9	138.9	130.0	125.3	128.3
200	127.0	141.3	139.8	143.0	141.9	134.2	127.2	129.6
250	130.7	144.0	143.4	143.5	143.5	133.9	129.6	131.2
315	136.7	145.6	144.8	141.6	143.4	131.7	132.1	133.1
400	127.6	148.1	147.7	139.8	142.6	132.4	133.2	132.5
500	124.7	148.6	147.4	138.3	141.2	132.0	139.2	133.9
630	123.3	146.6	145.3	138.2	141.5	133.1	141.4	136.2
800	123.4	143.8	139.6	139.3	145.1	132.1	138.7	139.7
1K	124.3	143.1	134.2	140.3	141.3	131.8	135.5	138.4
1.25K	126.5	144.0	132.0	140.2	139.8	133.2	135.3	137.8
1.6K	125.2	142.1	132.8	138.9	139.1	132.5	137.5	135.3
2K	125.4	141.4	132.7	138.4	140.5	132.7	138.0	136.8
2.5K	126.2	141.1	133.4	137.9	139.1	132.4	138.9	137.5
3.15K	126.0	140.6	132.8	137.5	138.8	133.4	142.1	140.1
4K	126.5	140.4	133.0	137.3	138.9	134.8	144.1	141.5
5K	126.6	139.8	133.6	136.6	138.4	134.9	142.1	139.7
6.3K	126.6	139.5	134.1	135.1	137.4	134.0	141.9	139.1
8K	126.5	138.9	134.1	133.9	136.5	132.6	141.9	138.8
10K	125.6	138.2	133.7	132.7	135.7	131.5	140.9	137.8
<hr/>								
63	120.4	137.8	138.8	133.6	137.1	129.5	124.1	123.6
125	124.2	142.1	141.8	140.8	142.2	136.2	129.0	131.6
250	134.5	148.7	147.9	147.5	147.8	138.1	134.9	136.3
500	130.4	152.6	151.8	143.6	146.6	137.3	143.8	139.2
1K	129.7	148.4	141.3	144.7	147.4	137.2	141.5	143.5
2K	130.4	146.3	137.7	143.2	144.4	137.4	142.9	141.4
4K	131.1	145.1	137.9	141.9	143.8	139.2	147.8	145.3
8K	131.0	143.7	138.7	138.8	141.4	137.6	146.4	143.3
<hr/>								
LP-8	139.9	156.5	154.3	152.2	153.9	146.2	152.1	150.2
SIL	130.4	146.6	139.0	143.3	145.1	137.9	144.0	143.4
DOOR	137.7	154.5	150.5	150.1	152.0	144.9	152.0	150.2
PHOB	151.8	167.3	163.1	163.6	165.3	159.3	166.1	164.1

Add 10.0 dB to all values of K10

YF-12 INLET NOISE SUPPRESSION
 1613A MAY 23, '80 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 113
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6600 RPM

RUN	51	52	53	54	55	56	57	58
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	116.8	132.3	133.2	126.6	131.6	123.8	117.5	116.7
63	117.4	133.4	134.1	127.9	133.0	125.7	119.5	118.6
80	117.3	134.6	135.0	129.8	134.8	125.6	120.8	119.8
100	118.1	135.8	135.7	132.6	136.3	130.7	122.6	123.9
125	119.8	137.3	136.8	134.8	138.2	133.7	124.8	127.1
160	122.4	138.5	137.9	137.4	139.4	135.6	125.7	128.1
200	127.8	141.3	139.7	142.1	142.8	134.8	127.6	130.0
250	131.2	143.8	142.9	143.0	144.4	134.8	130.1	131.6
315	131.5	145.6	144.7	141.4	144.6	132.8	132.5	133.7
400	128.7	148.2	147.7	139.4	143.9	133.6	133.2	133.1
500	125.6	149.0	147.8	137.9	142.4	133.2	139.8	134.2
630	124.1	146.9	145.6	137.7	142.8	134.3	141.8	137.6
800	124.5	144.1	140.3	138.8	146.4	134.6	149.5	140.5
1K	125.4	143.5	134.5	139.9	142.5	132.3	145.8	138.3
1.25K	127.5	144.2	132.3	139.9	141.1	134.1	135.2	137.8
1.6K	126.0	142.5	132.9	138.7	140.4	133.3	136.6	134.8
2K	126.1	141.8	132.9	138.1	141.8	133.6	137.9	139.5
2.5K	126.7	141.2	133.5	137.5	140.4	133.3	138.9	137.5
3.15K	126.5	140.7	132.8	137.0	139.8	133.9	141.8	139.8
4K	126.9	140.2	132.8	136.6	139.7	135.2	144.7	142.7
5K	127.0	139.7	133.3	135.9	139.3	135.6	142.6	140.3
6.3K	127.1	139.5	133.8	134.4	138.4	134.8	142.2	139.4
8K	127.2	139.0	134.1	133.1	137.6	133.1	142.0	139.0
10K	126.4	138.3	133.9	131.9	136.8	132.1	141.0	138.0
63	121.9	138.3	138.9	133.1	138.1	129.9	124.2	123.3
125	125.2	142.1	141.6	140.1	143.1	136.7	129.3	131.5
250	135.2	148.7	147.7	147.0	148.8	139.0	135.3	136.8
500	131.4	152.9	151.9	143.2	147.9	139.5	144.3	140.2
1K	130.8	148.7	141.8	144.3	148.7	138.5	142.0	143.8
2K	131.1	146.6	137.9	142.9	145.7	138.2	142.7	142.5
4K	131.5	145.0	137.7	141.3	144.4	139.7	148.0	145.9
8K	131.7	143.7	138.7	138.0	142.4	138.2	146.5	143.6
LP-8	140.2	156.7	154.3	151.7	155.0	147.0	152.4	150.8
SIL	131.1	146.8	139.1	142.8	146.3	138.8	144.2	144.1
SDBA	138.4	154.7	150.7	149.6	153.2	145.7	152.3	150.8
PNDB	152.4	167.4	163.2	163.1	166.3	160.0	166.5	164.9

*S10P= 0

Add 10.0 dB to all values of K10

VF-12 INLET NOISE SUPPRESSION
 09120 APR 29, 1960 TEST 1071A
 VF-12 INLET NOISE SUPPRESSION
 RUN 125
 SPIKE AFT
 BYPASS DRUMS OFF
 4200 RPM

RUN	23	24	25	26	27	28	29	30	31	32
FREQ (HZ)	Tr 1 F1 0. DEG	Tr 2 F2 10. DEG	Tr 3 F3 20. DEG	Tr 4 F4 30. DEG	Tr 5 F5 40. DEG	Tr 6 F6 50. DEG	Tr 7 F7 70. DEG	Tr 8 F8 90. DEG	Tr 9 F9 110. DEG	Tr 10 F10 135. DEG
50	74.3	56.9	77.1	78.6	78.5	78.3	81.5	83.4	84.3	79.6
63	74.9	55.2	74.3	78.9	80.8	81.7	83.4	86.0	89.8	83.1
80	74.9	57.4	74.4	77.4	79.3	80.0	81.3	83.4	84.6	81.0
100	80.7	59.5	77.9	80.1	80.5	80.9	81.0	82.3	83.7	80.9
125	81.9	61.2	80.7	81.8	82.2	82.1	84.9	85.3	85.6	81.7
160	81.0	60.9	80.4	82.3	82.4	83.5	85.3	85.7	84.2	81.3
200	83.0	63.7	83.4	84.4	84.0	84.4	83.6	85.7	84.5	84.7
250	87.0	66.8	84.7	86.3	85.9	85.4	86.3	86.2	86.1	86.1
315	87.2	66.6	85.6	87.5	86.0	85.8	85.8	85.5	87.9	84.2
400	88.1	68.5	88.5	87.9	86.5	86.9	86.0	86.0	86.8	85.0
500	89.4	70.1	88.6	88.7	88.5	87.9	89.4	89.2	90.8	86.2
630	91.7	71.0	90.5	89.9	89.4	89.7	90.2	89.6	90.8	86.3
800	103.1	73.8	97.8	93.4	91.3	90.4	89.6	88.4	90.1	85.5
1K	91.6	70.7	89.0	89.2	88.9	89.9	89.5	87.4	87.9	83.7
1.25K	92.7	71.7	89.3	90.0	89.4	89.1	88.9	87.0	87.6	82.5
1.6K	94.2	72.5	90.7	91.2	90.3	90.9	89.1	87.3	87.7	81.4
2K	100.8	73.9	94.3	94.6	94.8	93.4	89.6	88.4	88.3	81.0
2.5K	103.7	83.0	98.4	99.3	99.2	96.8	90.9	89.9	89.8	82.6
3.15K	97.3	75.1	93.0	93.1	91.2	90.4	87.0	85.9	84.6	80.3
4K	97.6	76.9	93.7	92.3	91.5	90.2	86.1	84.8	83.5	79.3
5K	98.7	76.8	93.8	92.5	91.1	89.7	85.3	84.5	83.1	78.3
6.3K	94.6	74.0	91.9	90.1	89.0	88.0	84.1	84.1	81.6	83.3
8K	98.2	74.5	92.7	91.7	88.7	87.2	83.5	82.4	80.3	81.0
10K	94.1	71.1	89.0	87.4	84.4	83.2	79.9	78.2	77.8	73.4
63	80.3	61.4	81.4	83.1	84.4	85.0	86.9	89.2	92.7	86.3
125	84.0	65.4	84.6	86.3	86.5	87.1	88.9	89.5	89.4	87.4
250	90.9	70.7	90.2	91.0	90.2	90.0	90.2	90.6	91.1	90.6
500	94.8	74.7	94.1	93.7	93.1	93.1	93.6	93.3	94.6	90.7
1K	103.8	80.8	98.8	96.0	94.8	94.6	94.1	92.4	93.5	88.8
2K	105.8	84.7	100.9	101.4	100.9	99.1	94.7	93.5	93.4	86.5
4K	102.7	81.1	98.3	97.5	96.0	94.9	90.9	89.9	88.6	84.2
8K	101.4	78.2	96.2	94.8	92.6	91.4	87.6	87.0	84.9	85.6
LP-A	110.0	88.2	105.4	104.9	104.0	102.9	100.8	100.2	100.9	97.1
SIL	104.1	82.2	99.4	98.4	97.2	96.2	93.3	91.9	91.8	86.5
ODBA	110.3	88.4	105.6	105.3	104.3	103.0	99.9	98.8	99.0	94.3
PND8	123.8	102.5	119.3	119.5	118.8	117.3	113.7	113.0	112.9	108.0

*STOP 0

Add 20.0 dB to all values of F2

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 16147 MAY 23 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 125
 SPIKE APT
 BYPASS DOORS OPEN
 4200 RPM

RUN	62	63	64	65	66	67	68	69
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	113.8	126.8	115.0	117.8	120.2	127.8	119.7	132.0
63	114.6	128.1	115.8	119.1	121.3	129.6	121.1	132.1
80	114.6	128.7	116.3	119.5	122.5	130.9	122.1	131.2
100	114.2	129.1	117.1	120.6	123.2	132.4	123.8	130.6
125	115.6	129.4	117.8	122.7	125.7	134.0	125.0	130.8
160	116.5	129.3	118.9	125.2	128.0	135.3	125.8	130.9
200	119.0	130.0	120.8	127.9	130.3	136.8	126.5	132.6
250	122.7	131.4	125.0	131.0	131.6	137.1	128.6	133.7
315	124.7	134.7	128.4	131.1	130.3	138.4	130.2	133.5
400	123.5	136.7	131.9	128.5	131.3	135.9	132.6	132.8
500	118.7	133.1	134.7	125.7	131.6	134.9	134.6	132.1
630	116.3	128.1	133.8	124.8	131.3	133.5	136.1	132.0
800	124.7	124.5	138.0	129.5	139.2	133.1	136.5	134.4
1K	116.3	119.8	126.5	125.9	133.4	130.8	130.1	131.0
1.25K	117.8	122.1	126.4	126.2	131.6	129.5	131.4	131.0
1.6K	118.7	122.0	130.6	126.9	135.2	128.6	132.4	132.9
2K	124.7	126.7	134.4	130.4	141.8	130.5	136.2	139.1
2.5K	127.8	130.6	139.0	133.8	144.5	134.9	143.1	145.5
3.15K	122.2	125.7	133.1	127.4	137.7	128.5	137.6	138.6
4K	122.8	126.4	132.3	127.4	137.2	127.4	136.6	138.0
5K	124.9	128.1	133.7	128.1	138.4	129.1	139.7	140.2
6.3K	124.2	127.9	132.8	126.5	137.5	129.0	138.7	140.4
8K	124.4	128.0	132.9	125.7	137.5	129.0	139.6	142.4
10K	122.5	125.7	131.5	123.6	135.7	127.6	139.2	142.0
12.5K	119.2	132.7	120.9	123.6	126.2	134.4	125.8	136.6
16K	120.3	134.1	122.8	128.0	130.9	138.8	129.7	136.5
20K	127.5	137.3	130.5	135.0	135.5	141.6	133.5	138.1
250	125.3	138.6	138.4	131.4	136.2	139.6	139.4	137.1
1K	126.0	127.3	138.6	132.3	140.8	136.1	138.3	137.2
2K	129.9	132.5	140.7	136.0	146.7	136.9	144.2	146.6
4K	128.2	131.6	137.8	132.4	142.5	133.2	142.9	143.8
8K	128.5	132.1	137.2	130.2	141.8	133.4	143.9	146.5
LP-8	135.8	143.5	145.9	141.4	150.0	146.7	149.5	151.4
51L	124.0	130.5	139.1	133.6	143.3	135.4	141.8	142.5
ODBA	135.1	139.9	145.7	140.4	150.4	143.3	149.5	151.2
PNOB	149.6	154.6	159.7	155.2	164.5	158.3	163.7	165.8

Subtract 4.0 dB from all values of K12

VF-12 INLET NOISE SUPPRESSION
 09150 RPM 29.1KHz TEST 10714
 VF-12 INLET NOISE SUPPRESSION
 RUN 127
 SPIKE AFT
 BYPASS DROPS OPEN
 4400 RPM

RUN	34	35	36	37	38	39	40	41	42	43
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	74.2	78.8	78.7	79.9	79.4	79.3	83.4	85.4	83.1	81.0
63	75.7	76.4	76.3	76.7	73.2	80.7	81.9	83.8	82.1	80.8
80	78.1	78.8	77.6	77.8	79.5	80.5	82.2	83.5	82.0	81.2
100	81.1	80.0	78.2	80.1	81.0	81.4	81.5	83.1	79.6	81.6
125	82.2	81.5	80.9	82.3	83.2	82.4	84.9	85.9	80.3	82.4
160	81.9	81.7	81.4	83.2	82.8	83.9	85.9	87.1	80.3	85.3
200	84.3	85.1	84.7	85.4	85.2	85.3	84.7	86.8	80.7	87.6
250	88.0	88.1	88.2	87.2	86.4	86.1	87.2	86.5	81.8	86.7
315	88.2	87.8	86.6	88.7	87.1	86.9	86.2	86.3	83.6	85.0
400	89.1	89.4	89.7	89.3	87.8	87.9	87.5	87.0	82.4	85.7
500	90.3	91.3	89.6	90.2	89.9	88.8	89.9	89.4	85.4	86.8
630	92.6	91.9	91.4	91.1	90.5	90.4	91.2	90.2	86.3	86.9
800	105.7	101.0	98.6	95.3	94.2	92.0	91.7	90.3	85.4	85.8
1K	93.9	91.8	90.1	90.4	90.1	91.1	90.5	88.2	83.8	84.6
1.25K	92.3	91.6	89.5	90.4	89.9	90.1	89.6	87.8	83.0	83.4
1.6K	94.0	92.5	91.0	91.4	90.6	91.4	89.8	88.4	83.3	82.4
2K	99.7	97.0	95.1	95.1	93.3	92.8	90.1	88.8	83.5	81.4
2.5K	105.0	102.1	99.6	100.4	98.6	97.3	92.1	90.7	85.0	83.2
3.15K	98.2	95.9	94.2	94.2	92.2	91.8	88.1	87.0	80.8	80.8
4K	96.8	96.2	93.3	91.9	91.1	90.4	88.7	85.8	79.6	79.8
5K	98.4	96.5	93.8	92.4	90.8	89.8	85.9	85.1	79.0	78.5
6.3K	94.6	93.1	91.0	89.4	88.4	87.7	84.9	84.7	77.9	82.6
8K	97.1	93.7	91.9	90.9	88.0	86.4	85.2	83.9	77.5	84.9
10K	93.0	90.3	88.4	86.7	83.8	82.9	80.2	78.3	74.0	74.7
63	51.6	82.9	82.4	83.1	83.9	85.0	87.3	89.1	87.2	85.8
125	84.5	85.9	85.2	86.8	87.2	87.4	89.2	90.4	88.8	88.2
250	91.9	92.0	91.5	92.1	91.2	90.9	90.9	91.3	87.0	91.4
500	95.7	95.8	95.1	95.0	94.3	94.1	94.6	93.9	89.8	91.3
1K	106.2	101.9	99.6	97.5	96.6	95.9	95.4	93.7	89.0	89.5
2K	104.4	103.6	101.3	102.1	100.2	99.4	95.5	94.2	88.8	87.2
4K	102.6	101.0	98.6	97.7	96.2	95.5	91.7	90.8	84.6	84.5
8K	100.3	97.4	95.4	94.1	92.0	91.0	88.7	87.8	81.5	87.2
LR-R	110.8	108.0	105.8	105.5	104.1	103.5	101.7	101.0	94.3	97.7
51L	105.1	102.2	99.8	99.1	97.7	96.9	94.2	92.9	87.5	87.0
80BA	111.1	108.2	106.0	105.8	104.2	103.8	100.9	99.4	94.5	95.0
PHOD	124.5	122.1	120.0	120.2	118.7	117.9	114.7	113.8	108.4	108.7

*RTOP n

Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 16147 MAY 23, 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 127
 SPIKE AFT
 BYPASS DOORS OPEN
 4400 RPM

MUN	75	76	77	78	79	80	81	82
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	115.9	127.1	115.9	118.8	121.4	129.2	119.6	132.3
63	116.3	128.1	116.6	119.8	122.7	130.2	121.6	132.3
80	116.3	128.7	116.9	120.4	123.9	131.5	122.7	132.0
100	116.2	129.5	117.6	121.3	124.6	133.0	124.2	131.4
125	117.5	129.9	118.1	123.1	126.0	134.5	125.2	131.6
160	118.3	129.9	119.3	125.6	128.7	135.9	126.1	131.9
200	120.9	130.8	121.8	129.1	131.3	137.3	127.4	133.4
250	124.4	132.4	125.5	131.8	133.3	138.1	129.3	134.7
315	126.5	135.8	129.3	131.7	131.8	137.4	131.1	134.5
400	125.3	137.8	132.9	129.6	132.4	137.3	133.6	134.0
500	120.7	134.3	135.6	126.8	133.0	136.4	135.9	133.4
630	118.0	129.3	135.2	126.0	132.6	135.1	137.7	133.5
800	125.6	125.8	140.4	131.5	138.2	134.6	137.1	136.0
1K	116.3	120.9	128.7	127.2	134.7	132.5	131.2	132.0
1.25K	118.8	123.0	127.0	127.2	132.1	131.2	131.4	131.6
1.6K	119.9	122.6	131.0	127.7	135.6	130.0	133.2	133.3
2K	124.3	125.7	133.2	129.4	140.5	130.5	135.5	138.5
2.5K	131.0	133.3	140.4	136.4	146.4	136.8	143.9	148.1
3.15K	124.7	127.0	135.1	129.3	140.1	130.7	139.8	141.3
4K	123.4	126.4	132.2	127.5	137.4	128.2	137.3	138.7
5K	125.8	128.4	133.9	128.4	139.0	129.7	139.4	141.2
6.3K	124.6	127.7	132.5	126.4	137.8	129.7	139.0	140.7
8K	124.6	127.8	132.4	125.4	137.4	129.1	139.7	143.2
10K	123.0	125.7	131.1	123.4	125.8	127.9	139.7	142.1
63	121.0	132.8	121.2	124.5	127.6	135.2	126.3	137.0
125	122.2	134.5	123.1	128.5	131.8	139.4	130.0	136.4
250	129.3	138.3	131.3	135.8	137.0	142.4	134.3	139.0
500	127.1	139.8	139.5	132.5	137.4	141.1	140.8	138.4
1K	127.0	128.5	140.8	133.9	140.5	137.8	138.9	138.5
2K	132.1	134.3	141.6	137.6	147.7	138.4	144.8	148.7
4K	129.5	132.1	138.7	133.2	143.8	134.5	143.8	145.3
8K	128.9	131.9	136.8	130.0	141.9	133.7	144.3	146.9
LP-8	137.4	144.4	146.9	142.5	150.9	147.8	150.2	152.7
SIL	129.5	131.6	140.4	134.9	144.0	136.9	142.5	144.2
NOISE	136.7	141.0	146.7	141.7	151.3	144.6	150.2	152.8
PMDB	151.7	156.0	160.7	156.7	165.8	159.7	164.4	167.5

Subtract 4.0 dB from all values of K12

VF-12 INLET NOISE SUPPRESSION
 10111 APR 29, 1980 TEST 1071A
 VF-12 INLET NOISE SUPPRESSION
 RUN 129
 SPIKE 4FT
 BYPASS DRUMS OPEN
 4600 RPM

RUN	45	46	47	48	49	50	51	52	53	54
FRLO (Hz)	Tr 1 F1 0. DEG	Tr 2 F2 10. DEG	Tr 3 F3 20. DEG	Tr 4 F4 30. DEG	Tr 5 F5 40. DEG	Tr 6 F6 50. DEG	Tr 7 F7 60. DEG	Tr 8 F8 70. DEG	Tr 9 F9 80. DEG	Tr 10 F10 90. DEG
50	79.2	81.2	81.0	81.7	81.4	81.4	85.3	87.1	82.8	83.1
63	78.1	78.2	77.9	77.9	79.7	82.4	83.2	85.1	81.3	81.8
80	79.1	79.2	78.5	79.0	80.7	81.4	82.5	84.4	81.2	82.9
100	82.3	80.9	79.4	81.2	81.6	82.4	82.3	84.5	78.7	82.2
125	83.4	82.7	82.0	83.2	83.4	83.4	85.2	86.8	78.8	83.1
160	82.9	82.5	82.4	84.1	83.8	85.4	87.4	87.7	79.2	86.2
200	85.4	86.1	85.5	86.5	86.1	86.5	85.8	87.4	79.2	88.4
250	89.0	89.0	89.1	88.3	87.9	87.1	88.1	87.4	80.5	87.4
315	89.2	88.8	87.6	89.7	88.5	87.9	87.3	87.1	81.7	86.0
400	90.7	90.9	91.2	90.8	89.3	88.9	88.9	88.3	80.8	86.3
500	91.5	92.3	90.4	91.1	90.6	90.1	90.4	90.1	83.7	87.2
630	91.2	92.9	92.4	91.9	91.4	91.5	91.4	90.6	84.4	87.4
800	104.1	102.2	96.2	95.3	94.7	93.4	92.1	91.0	83.3	86.4
1K	94.1	93.5	90.9	91.7	91.5	91.9	91.4	89.9	82.5	85.6
1.25K	92.5	92.1	90.1	91.2	90.9	90.8	90.4	89.0	81.1	84.0
1.6K	94.3	92.6	91.2	92.0	91.4	92.1	90.5	89.3	81.1	82.5
2K	99.1	96.2	94.4	94.3	93.1	93.0	90.5	89.5	81.1	81.8
2.5K	105.6	102.5	100.5	100.2	99.0	97.8	92.6	91.4	82.7	84.0
3.15K	99.8	97.4	96.0	96.0	94.3	94.1	89.6	88.7	79.5	81.9
4K	94.8	95.7	93.3	92.1	91.5	91.0	87.3	86.5	77.4	79.8
5K	98.5	95.9	93.7	92.4	91.1	90.4	86.2	85.6	76.8	79.2
6.3K	95.2	92.5	90.6	89.2	88.7	88.1	85.0	84.9	75.7	82.3
8K	94.2	92.8	91.2	90.2	88.0	86.9	84.0	83.4	74.6	87.2
10K	92.3	89.5	87.9	86.2	83.9	82.8	80.4	78.9	72.1	74.5
63	83.6	84.5	84.1	84.4	85.4	86.7	88.6	90.4	86.6	87.4
125	87.6	86.8	86.2	87.8	87.9	88.8	90.2	91.3	83.7	89.0
250	92.9	92.9	92.4	93.1	92.4	92.0	91.9	92.1	85.4	92.1
500	94.7	96.9	94.2	96.1	95.3	95.0	95.1	94.5	88.0	91.7
1K	104.7	103.1	98.1	97.9	97.5	97.0	96.1	94.8	87.2	90.2
2K	106.8	103.8	101.8	101.7	100.5	99.9	96.1	95.0	84.4	87.6
4K	103.3	101.2	99.3	98.4	97.3	96.9	92.7	91.9	82.8	85.2
8K	99.6	96.6	94.9	93.6	92.1	91.2	89.2	88.4	80.0	88.7
LP-A	110.6	108.4	106.0	105.7	104.8	104.3	102.4	101.9	98.7	98.6
SIL	104.9	102.7	99.7	99.4	98.4	97.9	95.0	93.9	85.5	87.7
80dB	111.0	108.6	106.2	105.9	104.8	104.3	101.6	100.5	92.5	95.8
PADB	124.9	122.5	120.6	120.3	119.2	118.6	115.4	114.6	106.4	109.4

Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 16147 MAY 23, 60 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 129
 SPIKE AFT
 BYPASS DOORS OPEN
 4600 RPM

RUN	86	87	88	89	90	91	92	93
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K4 0. DEG	TR 8 K12 0. DEG
50	114.7	127.2	115.5	119.2	122.4	129.6	120.4	132.9
63	115.5	128.8	116.7	120.3	123.4	131.2	121.8	132.7
80	116.0	129.1	117.0	120.8	124.6	132.4	123.3	132.3
100	115.6	130.2	117.8	121.8	125.6	133.8	124.7	131.7
125	116.9	130.5	118.6	123.8	127.9	135.0	125.6	132.0
160	118.3	131.0	119.8	126.5	129.9	136.1	126.8	132.5
200	120.5	131.6	122.3	129.7	132.3	137.6	128.2	134.4
250	124.5	133.3	126.4	132.8	134.5	138.9	130.3	135.7
315	126.4	136.8	130.0	132.5	133.4	138.6	132.1	135.3
400	125.8	139.0	134.3	130.9	133.8	138.2	134.2	135.4
500	121.3	135.6	136.9	127.9	134.3	137.9	137.1	134.8
630	118.2	130.7	136.5	127.1	134.2	136.6	139.2	135.1
800	126.3	128.1	137.8	134.7	142.8	136.1	137.5	137.1
1K	119.7	122.4	129.5	129.0	136.8	134.1	132.4	133.2
1.25K	118.9	124.0	128.0	128.3	133.3	132.7	132.0	132.4
1.6K	119.7	123.1	132.0	128.6	136.3	131.4	134.0	134.1
2K	123.1	125.1	133.2	129.5	140.4	131.2	135.8	138.3
2.5K	131.6	132.8	142.3	136.4	147.4	136.8	145.2	146.1
3.15K	126.2	128.8	137.6	131.8	143.2	133.4	142.2	143.8
4K	122.9	126.6	132.7	128.1	138.7	129.4	139.1	139.9
5K	125.0	128.3	134.0	128.7	139.5	130.3	140.2	142.0
6.3K	123.8	127.6	132.9	126.9	138.4	130.7	139.9	141.6
8K	123.2	127.2	132.0	125.1	137.4	129.3	140.1	142.4
10K	121.8	125.5	131.0	123.4	136.0	128.3	140.0	142.2
63	120.2	133.2	121.2	124.9	128.3	136.0	126.7	137.4
125	121.8	135.3	123.6	129.2	132.9	139.9	130.6	136.9
250	129.2	139.2	132.0	136.6	138.2	143.2	135.2	139.9
500	127.6	141.1	140.8	133.7	138.9	142.4	142.1	139.9
1K	127.8	130.3	138.8	136.5	144.1	139.3	139.5	139.5
2K	132.4	133.9	143.1	137.8	148.4	138.7	146.0	147.0
4K	129.7	132.8	140.1	134.6	145.7	136.2	145.4	147.0
8K	127.8	131.6	136.8	130.2	142.2	134.3	144.8	146.9
LP-6	137.4	145.3	147.6	143.5	152.2	148.7	151.3	152.7
51L	130.0	132.3	140.7	136.3	146.1	138.1	143.6	144.5
80BA	136.9	141.6	147.6	142.6	152.6	145.7	151.4	152.6
PMDB	151.9	156.2	161.8	157.3	166.9	160.3	165.6	167.0

Subtract 4.0 dB from all values of K12

VF-12 INLET NOISE SUPPRESSION
 16147 MAY 23, 1960 TEST 10933
 VF-12 INLET NOISE SUPPRESSION
 RUN 122
 SPIKE ALT
 BYPASS DOWNS OPEN
 4600 RPM

MUN	86	87	88	89	90	91	92	93
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	114.7	127.2	115.5	119.2	122.4	129.6	120.4	132.9
63	115.5	128.8	116.7	120.3	123.4	131.2	121.8	132.7
80	116.0	129.1	117.0	120.8	124.6	132.4	123.3	132.3
100	115.6	130.2	117.8	121.8	125.6	133.8	124.7	131.7
125	116.9	130.5	118.6	123.8	127.9	135.0	125.6	132.0
160	118.3	131.0	119.8	126.5	129.9	136.1	126.8	132.5
200	120.5	131.6	122.3	129.7	132.4	137.6	128.2	134.4
250	124.5	133.3	126.4	132.8	134.5	138.9	130.3	135.7
315	126.4	136.8	130.0	132.5	133.4	138.6	132.1	135.3
400	125.8	139.0	134.3	130.9	133.8	138.2	134.2	135.4
500	121.3	135.6	136.9	127.9	134.3	137.9	137.1	134.8
630	118.2	130.7	136.5	127.1	134.2	136.6	139.2	135.1
800	126.3	124.1	137.8	134.7	142.8	136.1	147.5	137.1
1K	119.7	122.4	129.5	129.0	136.8	134.1	132.4	133.2
1.25K	118.9	124.0	128.0	128.3	133.3	132.7	132.0	132.4
1.6K	119.7	123.1	132.0	128.6	136.3	131.4	134.0	134.1
2K	123.1	125.1	133.2	129.5	140.3	131.2	135.8	138.3
2.5K	131.6	132.8	142.3	136.4	147.4	136.8	145.2	146.1
3.15K	126.2	128.8	137.6	131.8	143.2	133.4	142.2	143.8
4K	122.9	126.6	132.7	128.1	148.7	129.4	139.1	139.9
5K	125.0	128.3	134.0	128.7	149.5	130.3	140.2	142.0
6.3K	123.8	127.6	132.9	126.9	148.4	140.7	139.9	141.6
8K	123.2	127.2	132.0	125.1	137.4	129.3	140.1	142.4
10K	121.8	125.5	131.0	123.4	136.0	128.3	140.0	142.2
125	120.2	133.2	121.2	124.9	128.3	136.0	126.7	137.4
160	121.8	135.3	123.6	129.2	132.9	139.9	130.6	136.9
200	129.2	139.2	132.0	136.6	138.2	143.2	135.2	139.9
250	127.6	141.1	140.8	133.7	138.9	142.6	142.1	139.9
315	127.8	130.3	138.8	136.5	144.1	139.3	139.5	139.5
400	132.4	133.9	143.1	137.8	148.4	138.7	146.0	147.0
500	129.7	132.8	140.1	134.6	145.7	136.2	145.4	147.0
630	127.8	131.6	136.8	130.2	142.2	134.3	144.8	146.9
800	137.4	145.3	147.6	143.5	152.2	148.7	151.3	152.7
1K	130.0	132.3	140.7	136.3	146.1	138.1	143.6	144.5
1.25K	136.9	141.6	147.6	142.6	152.6	145.7	151.4	152.6
1.6K	151.9	156.2	161.6	157.3	166.9	160.3	165.6	167.0

Subtract 4.0 dB from all values of K12

VF-12 INLET NOISE SUPPRESSION
 1013R APR 29, 1980 TEST 1071A
 VF-12 INLET NOISE SUPPRESSION
 RUN 131
 SPIKE AFT
 BYPASS DAMPER OFF
 4800 RPM

RUN	56	57	58	59	60	61	62	63	64	65
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	79.9	81.8	81.6	82.4	82.2	82.7	84.3	87.8	81.0	84.1
63	79.5	79.5	79.0	79.1	81.1	84.1	84.4	86.4	80.3	82.6
80	79.9	80.2	79.3	79.6	81.8	83.8	83.1	85.2	78.4	82.7
100	82.7	81.3	80.0	81.7	82.3	83.3	82.8	85.1	77.6	83.2
125	83.9	82.9	82.3	83.4	84.1	84.9	84.2	87.8	77.9	83.9
160	83.4	82.9	82.6	84.4	84.2	85.9	87.8	87.8	77.5	84.7
200	86.2	86.9	86.4	87.0	86.8	87.9	86.7	88.0	78.0	84.8
250	90.1	89.9	89.8	88.9	88.5	87.9	88.8	87.8	79.1	87.8
315	90.0	89.5	88.2	90.3	89.2	88.4	87.9	87.7	80.3	86.6
400	91.4	92.0	92.4	92.1	90.0	89.4	90.6	89.3	79.7	87.0
500	92.5	93.1	91.4	92.8	91.3	90.4	91.0	90.4	81.8	87.7
630	94.0	93.8	93.2	93.0	92.1	92.1	92.0	91.3	83.0	88.3
800	99.9	97.1	98.4	95.2	93.2	93.1	92.1	90.5	81.8	87.1
1K	94.3	93.8	92.1	93.2	92.6	92.8	92.2	90.3	81.2	86.6
1.25K	93.0	92.5	90.7	91.8	91.4	91.4	91.2	89.8	79.9	84.9
1.6K	94.6	92.8	91.5	92.3	91.7	92.7	91.0	89.7	80.3	83.8
2K	98.7	96.0	94.2	94.0	92.7	93.1	91.0	89.8	79.9	82.5
2.5K	105.0	101.9	100.2	99.3	97.8	97.0	92.1	91.0	80.4	83.7
3.15K	100.8	98.8	97.6	97.4	96.2	95.9	90.6	89.4	78.4	82.8
4K	97.0	95.9	94.8	92.7	91.4	91.4	88.2	87.8	74.4	81.0
5K	98.2	95.4	93.5	92.3	90.5	90.1	86.8	85.7	74.9	79.7
6.3K	98.2	92.5	90.6	89.3	88.6	88.3	85.1	84.9	73.9	80.9
8K	98.7	92.5	91.0	90.1	87.8	87.2	87.0	86.5	74.6	88.2
10K	92.1	89.4	87.8	86.2	83.6	82.9	80.9	79.7	71.2	78.8
63	84.6	85.4	84.9	85.8	84.5	88.3	89.6	91.4	86.8	88.0
125	88.1	87.2	88.6	88.2	88.4	89.4	90.8	91.8	82.4	89.7
250	93.8	93.7	93.1	93.7	93.0	92.4	92.7	92.4	84.0	92.6
500	97.6	97.8	97.2	97.3	96.0	95.7	96.0	95.2	86.8	92.4
1K	101.6	99.8	98.0	98.4	97.2	97.3	96.6	94.9	85.8	91.1
2K	106.2	103.3	101.6	101.1	99.7	99.4	96.2	95.0	85.0	88.2
4K	103.8	101.8	100.2	99.8	97.7	97.6	93.6	92.7	81.6	84.1
8K	99.4	96.4	94.8	93.4	91.9	91.6	89.8	89.3	79.2	89.4
LP-8	109.9	107.8	106.3	106.0	104.6	104.8	103.0	102.3	93.2	99.2
SIL	103.8	101.6	99.9	99.7	98.2	98.1	95.5	94.2	86.1	88.4
ODRA	110.4	108.0	106.4	106.0	104.6	104.4	102.0	100.9	91.1	96.5
PNOB	124.5	122.2	120.6	120.2	118.8	118.8	115.6	114.8	104.7	110.0

*STOP n

Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 16156 MAY 23, '40 TEST 109J3
 YF-12 INLET NOISE SUPPRESSION
 RUN 131
 SPIKE ALT
 BYPASS DOORS OPEN
 4800 RPM

HUN	98	99	100	101	102	103	104	105
FREQ (Hz)	TR 1 K1 Q. DEG	TR 2 K6 Q. DEG	TR 3 K3 Q. DEG	TR 4 K8 Q. DEG	TR 5 K5 Q. DEG	TR 6 K10 Q. DEG	TR 7 K14 Q. DEG	TR 8 K12 Q. DEG
50	116.3	128.4	117.0	119.8	123.5	130.3	120.5	132.9
63	117.2	129.5	118.0	121.2	125.1	131.9	122.3	132.9
80	117.7	130.3	118.0	121.7	125.7	133.6	123.7	132.7
100	117.4	130.7	118.9	122.8	126.7	134.2	125.3	132.5
125	118.3	131.5	119.4	124.8	129.0	135.3	126.1	132.6
160	119.5	131.7	120.7	127.5	130.9	136.4	126.9	133.4
200	122.4	132.7	123.1	130.9	133.2	137.8	128.9	135.0
250	126.3	134.4	127.2	133.7	135.5	139.3	130.8	136.5
315	128.0	138.2	130.8	133.2	134.9	139.6	132.9	136.4
400	128.0	140.4	135.4	132.3	135.4	139.2	135.2	136.4
500	123.3	136.9	137.8	129.4	135.9	138.9	138.5	135.9
630	120.4	132.0	137.7	128.4	135.7	137.8	140.5	136.8
800	125.3	126.7	135.6	129.9	141.0	136.8	138.3	138.0
1K	122.2	123.6	130.6	130.2	137.9	135.3	133.6	134.4
1.25K	120.5	124.9	129.3	129.8	134.9	134.1	133.0	133.5
1.6K	120.9	123.4	132.5	129.7	137.3	132.8	134.8	135.1
2K	123.9	125.1	133.4	129.9	140.5	132.2	136.2	138.5
2.5K	131.3	132.0	140.4	136.1	146.9	135.5	144.7	146.6
3.15K	128.7	130.1	138.9	133.5	145.0	135.1	144.0	146.0
4K	124.3	127.1	133.4	129.4	140.1	131.1	140.8	141.7
5K	125.5	127.9	133.6	128.9	139.7	130.9	140.7	142.7
6.3K	124.7	127.6	133.1	127.7	139.1	131.5	141.1	143.0
8K	123.9	127.0	131.9	125.7	137.9	130.3	141.0	143.0
10K	122.7	125.6	131.0	124.1	136.6	129.5	140.9	143.0
<hr/>								
63	121.9	134.2	122.5	125.7	129.6	136.9	127.2	137.6
125	123.2	136.1	124.5	130.2	133.9	140.2	130.9	137.6
250	130.9	140.5	132.9	137.5	139.4	143.8	136.0	140.8
500	129.8	142.4	141.9	135.1	140.4	143.5	143.4	141.2
1K	127.9	130.0	137.5	134.7	143.4	140.3	140.4	140.5
2K	132.3	133.3	141.8	137.8	148.2	138.5	145.7	147.5
4K	137.4	133.3	140.9	135.9	147.1	137.5	145.9	148.6
8K	128.6	131.6	136.9	130.8	142.8	135.3	145.7	147.8
<hr/>								
LP-8	138.4	146.2	147.5	143.9	152.6	149.5	152.1	153.7
SIL	130.5	132.2	140.1	136.1	146.2	138.8	144.3	145.5
WDBA	137.6	142.2	147.2	142.8	152.9	148.4	152.1	153.8
PNDB	152.4	156.3	161.2	157.5	167.1	160.6	166.0	167.9
STOP 0								

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 14116 FEB 14, 80 TEST 10021
 YF-12 INLET NOISE SUPPRESSION
 RUN 132
 SPIKE AFT
 BYPASS DOORS OPEN
 5000 RPM

RUN	23	24	25	26	27	28	29	30	31	32
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	80.1	82.2	81.8	82.4	81.9	82.1	84.0	87.5	85.7	94.7
63	79.2	79.7	79.4	79.2	82.1	84.7	84.7	87.0	85.6	93.2
80	81.0	81.0	80.4	80.9	83.1	84.7	84.7	86.3	84.2	93.9
100	83.0	81.5	80.4	82.2	82.8	83.7	83.1	85.4	82.7	93.9
125	84.2	83.2	83.0	84.5	84.9	85.0	86.7	88.0	82.8	94.5
160	84.1	83.6	83.1	84.7	84.6	86.5	88.1	88.3	82.3	97.6
200	87.3	87.7	87.1	87.8	87.6	88.0	87.7	88.8	83.5	99.7
250	91.2	90.9	90.8	90.0	89.7	88.4	89.4	88.6	84.2	98.7
315	91.2	90.5	89.2	91.0	89.7	89.1	89.0	88.4	85.3	97.4
400	92.6	92.7	93.5	92.4	90.7	90.9	91.4	89.7	85.1	97.8
500	93.4	93.9	92.5	93.4	92.5	91.5	92.0	91.0	87.4	97.7
630	95.4	95.1	94.6	94.5	93.2	93.5	93.2	92.3	89.0	98.3
800	98.2	96.9	94.7	94.5	93.1	93.5	92.8	91.1	88.1	97.1
1K	95.0	94.7	93.1	93.4	93.2	93.4	93.0	91.2	87.0	96.8
1.25K	93.6	93.1	91.5	92.6	92.2	92.5	91.6	90.4	86.0	94.8
1.6K	95.0	93.2	92.1	93.0	92.2	93.5	91.5	90.3	85.5	92.8
2K	98.6	95.8	94.3	94.1	92.9	93.5	91.4	90.4	85.5	92.6
2.5K	103.8	101.1	99.6	98.5	96.7	94.4	91.9	90.8	85.4	93.4
3.15K	101.3	99.2	98.2	98.0	95.5	95.6	91.3	90.3	84.0	92.4
4K	97.4	95.9	94.4	93.4	92.2	92.4	88.9	88.3	82.2	90.6
5K	97.7	94.7	93.2	92.0	90.2	90.3	86.8	86.2	80.6	89.6
6.3K	94.7	91.9	90.5	89.1	88.3	88.4	85.1	85.0	78.4	89.9
8K	94.5	91.4	90.3	89.5	87.4	87.2	87.3	87.2	81.9	98.8
10K	91.2	88.2	87.0	85.5	83.0	82.8	81.5	80.4	76.8	92.7
63	84.9	85.8	85.4	85.9	87.2	88.8	89.9	91.8	89.9	98.8
125	88.5	87.6	87.1	88.7	88.9	90.0	91.2	92.2	87.4	100.4
250	95.0	94.7	94.1	94.5	93.8	93.3	93.6	93.5	89.2	103.5
500	98.7	98.8	98.4	98.3	97.0	96.9	97.1	95.9	92.2	102.7
1K	100.8	99.9	98.1	98.4	97.6	97.9	97.3	95.7	91.9	101.1
2K	105.4	102.7	101.3	100.7	99.2	99.5	96.4	95.3	90.2	97.2
4K	103.9	101.8	100.6	100.1	98.0	98.1	94.2	93.3	87.2	95.8
8K	98.5	95.4	94.3	93.1	91.6	91.8	90.0	89.8	84.4	100.2
LP-8	109.5	107.7	106.5	106.2	104.8	105.0	103.4	102.9	94.7	109.7
81L	103.4	101.5	100.0	99.7	98.3	98.5	98.9	94.8	89.8	98.2
808A	109.9	107.5	106.5	106.1	104.6	104.8	102.6	101.5	96.8	104.6
PNDB	124.0	121.9	120.6	120.2	118.5	118.6	116.0	115.2	110.1	120.4
STDP: D										

YF-12 INLET NOISE SUPPRESSION
09141 MAY 23, 80 TEST 10933
YF-12 INLET NOISE SUPPRESSION
RUN 133

SPRKE AFT
BYPASS DOORS OPEN
5000 RPM

HUN	109	110	111	112	113	114	115	116
FREQ (Hz)	TR 1 K1 Q: DEG	TR 2 K6 Q: DEG	TR 3 K3 Q: DEG	TR 4 K8 Q: DEG	TR 5 K5 Q: DEG	TR 6 K10 Q: DEG	TR 7 K14 Q: DEG	TR 8 K12 Q: DEG
50	115.9	129.4	117.1	120.3	124.6	131.6	121.1	133.2
63	117.2	130.2	118.5	121.2	126.2	133.2	122.8	133.6
80	117.6	131.4	118.6	122.0	127.1	134.1	124.3	133.4
100	117.6	132.1	119.5	123.4	128.3	135.1	125.6	133.3
125	118.2	132.7	120.2	125.0	130.4	136.2	126.8	133.3
160	118.7	132.9	121.3	127.3	131.8	136.8	128.1	133.8
200	122.5	134.0	124.1	131.3	134.4	138.2	129.6	135.8
250	126.1	135.9	128.3	134.0	136.3	139.8	131.9	137.7
315	126.0	139.4	131.7	133.5	136.4	140.8	133.7	137.4
400	128.0	141.4	136.3	132.8	137.0	140.5	136.0	137.8
500	123.5	138.4	139.1	130.3	137.9	140.5	139.7	137.1
630	121.0	133.7	139.1	128.9	138.0	139.4	142.2	138.3
800	122.9	127.0	135.5	129.4	142.6	138.4	139.6	139.3
1K	122.2	124.9	131.5	130.9	139.4	137.1	135.1	135.9
1.25K	120.8	126.2	130.8	130.7	138.9	135.9	134.6	135.1
1.6K	121.0	124.4	133.6	130.3	139.0	134.6	136.1	136.5
2K	123.3	125.1	133.9	130.0	141.5	133.9	137.2	139.2
2.5K	129.3	130.9	139.1	134.1	146.3	135.0	143.4	145.2
3.15K	128.6	130.8	139.3	133.3	146.1	135.8	145.7	148.1
4K	124.5	128.1	134.7	130.0	142.0	133.1	143.1	143.9
5K	124.6	127.6	133.7	128.4	140.4	132.3	141.7	142.9
6.3K	123.9	127.4	133.1	127.0	139.8	132.5	142.5	144.4
8K	122.6	126.6	131.8	124.9	138.4	131.5	142.0	143.6
10K	121.4	125.2	130.8	123.1	136.9	130.5	141.6	143.4
12.5	121.7	135.2	122.9	126.0	138.8	137.8	127.7	138.2
160	123.0	137.3	125.2	130.3	135.2	140.9	131.7	138.3
200	130.9	141.8	133.8	137.9	140.7	144.5	136.8	141.8
500	129.9	143.6	143.1	135.7	142.5	144.9	144.8	142.5
1K	126.8	130.9	137.9	135.2	145.0	142.0	141.9	141.9
2K	130.8	132.6	141.1	136.6	148.1	139.3	144.9	146.9
4K	131.1	133.9	141.4	135.8	148.3	138.8	148.6	150.4
8K	127.5	131.3	136.8	130.1	143.3	136.4	146.8	148.6
LP-8	137.8	147.3	147.9	143.8	153.4	150.6	153.1	154.7
SIL	129.6	132.4	140.1	135.9	147.1	140.0	145.1	146.4
WDBA	136.8	143.0	147.4	142.5	153.8	147.7	153.0	154.6
PWDB	151.5	156.7	161.4	156.8	167.8	161.7	167.3	169.4

*STEP 0

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 12117 APR 29, '60 TEST 1071A
 YF-12 INLET NOISE SUPPRESSION
 RUN 13A
 SPIKE AFT
 BYPASS DROPS OPEN
 5400 RPM

RUN	68	69	70	71	72	73	74	75	76	77
FREQ (Hz)	Tr 1 F1 0. DEG	Tr 2 F2 10. DEG	Tr 3 F3 20. DEG	Tr 4 F4 30. DEG	Tr 5 F5 40. DEG	Tr 6 F6 50. DEG	Tr 7 F7 70. DEG	Tr 8 F8 90. DEG	Tr 9 F9 110. DEG	Tr 10 F10 135. DEG
50	62.1	81.0	82.7	84.3	83.2	83.7	86.9	88.5	82.6	87.5
63	62.7	83.2	83.1	83.0	85.0	87.8	87.5	89.8	82.1	85.9
80	62.9	83.4	82.7	83.2	85.2	86.5	87.3	88.8	80.3	86.1
100	85.3	84.5	83.0	84.4	85.1	86.3	86.7	88.3	79.6	86.6
125	85.5	84.9	84.3	85.7	85.2	85.4	86.3	89.3	78.9	87.0
160	85.1	84.4	83.8	85.4	85.0	86.5	86.4	89.0	80.5	89.1
200	87.6	87.8	87.9	88.5	88.6	89.4	88.8	89.9	80.9	91.3
250	92.3	91.7	91.5	90.3	90.4	89.4	90.0	89.6	81.0	90.0
315	92.6	91.9	90.1	91.4	90.7	90.1	89.2	89.3	80.6	88.8
400	94.2	94.1	94.2	93.2	91.7	91.5	89.7	89.4	80.2	88.7
500	94.7	95.4	93.6	94.2	93.0	91.7	90.9	89.2	81.6	88.5
630	94.6	96.3	95.7	94.4	93.1	92.2	91.4	90.4	81.2	88.7
800	95.2	95.9	93.6	93.1	91.8	92.0	90.6	89.8	80.7	88.3
1K	95.8	95.4	92.7	92.4	91.8	92.0	91.5	90.4	81.0	86.3
1.25K	94.7	94.6	92.0	92.5	91.8	92.1	91.2	90.1	79.8	86.6
1.6K	95.3	93.9	91.8	92.1	91.5	92.4	90.1	89.2	79.4	82.0
2K	97.7	95.6	93.8	93.1	92.0	92.4	90.0	89.9	79.1	81.1
2.5K	101.3	99.2	97.8	96.2	94.5	94.3	90.0	89.7	78.4	80.8
3.15K	100.5	98.8	97.7	97.0	94.3	94.3	90.3	89.8	77.4	80.8
4K	97.1	96.0	94.4	93.0	91.9	92.0	88.8	88.8	76.2	80.1
5K	95.8	93.8	92.2	90.4	89.1	89.5	86.9	86.7	75.5	79.4
6.3K	93.0	90.9	89.5	87.4	87.0	87.2	84.2	84.9	75.5	79.2
8K	93.0	90.3	89.4	88.1	86.6	86.3	84.8	87.2	74.4	87.1
10K	89.6	87.3	86.2	84.5	82.7	82.4	83.0	82.8	78.7	86.8
63	87.4	88.4	87.6	88.3	89.3	91.1	92.0	93.8	86.5	91.3
125	90.1	89.4	88.5	90.1	89.9	90.9	92.6	93.7	86.5	92.4
250	94.1	95.4	94.9	95.1	94.7	94.5	94.1	94.4	85.5	94.9
500	100.1	100.1	99.4	98.8	97.4	96.4	95.5	94.5	85.8	91.9
1K	100.0	100.2	97.6	97.4	96.4	96.8	95.9	94.9	85.3	90.0
2K	103.6	101.4	100.0	99.0	97.6	98.0	94.8	94.4	83.9	86.1
4K	103.0	101.4	100.1	99.1	97.0	97.1	93.7	93.4	81.3	86.9
8K	94.9	94.4	93.4	91.7	90.4	90.4	89.7	90.1	81.9	90.3
LP-A	108.7	107.4	106.1	105.5	104.3	104.4	102.9	102.9	93.7	100.2
SIL	102.2	101.1	99.2	98.5	97.1	97.3	94.8	94.2	83.5	87.0
SDHA	104.8	107.4	105.9	105.0	103.4	103.7	101.4	100.4	90.7	95.9
PHOB	122.7	121.4	120.1	119.4	117.7	117.8	115.3	115.1	104.5	109.8

*STOP: n

Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
09:58 MAY 23, '80 TEST 10933
YF-12 INLET NOISE SUPPRESSION
RUN 135

SPIKE AFT
BYPASS DOORS OPEN
5400 RPM

RUN	120	121	122	123	124	125	126	127
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	117.5	129.6	117.9	120.3	126.0	133.0	121.9	129.4
63	118.8	130.9	119.2	122.0	126.0	133.8	123.6	129.8
80	119.4	132.0	119.6	123.0	129.1	135.2	124.7	130.2
100	119.6	132.9	120.5	124.0	130.3	136.4	126.4	131.0
125	120.4	133.4	121.1	125.8	132.1	137.6	127.7	132.2
160	120.2	134.1	122.4	128.4	133.3	137.8	128.5	133.6
200	124.4	135.4	125.0	132.2	135.7	139.0	130.5	136.2
250	128.3	137.4	129.7	135.3	137.4	140.0	132.3	138.4
315	136.4	140.7	133.0	144.6	138.8	141.6	134.6	138.9
400	130.2	142.8	137.6	133.8	139.6	142.3	137.2	139.6
500	126.0	140.1	140.7	132.4	140.8	141.9	141.5	139.2
630	123.5	135.2	141.1	130.7	141.6	141.1	144.3	141.0
800	123.0	128.4	136.8	130.6	145.7	140.5	141.7	141.3
1K	123.4	126.5	133.0	132.7	141.7	139.3	137.8	138.0
1.25K	123.6	128.2	133.2	133.0	139.8	138.3	137.1	137.1
1.6K	123.3	125.8	135.5	132.1	141.5	137.2	138.4	138.6
2K	124.8	126.0	155.0	131.2	143.4	136.2	138.9	140.5
2.5K	128.9	129.7	138.2	133.2	146.3	136.4	143.3	144.3
3.15K	129.3	130.9	138.9	133.1	147.0	136.9	148.2	149.0
4K	126.2	128.9	135.8	131.3	144.3	136.2	145.8	146.6
5K	125.5	127.9	134.2	129.3	142.4	135.4	144.4	145.0
6.3K	124.6	127.8	133.3	127.5	141.1	135.0	144.6	145.9
8K	123.4	127.3	132.2	125.5	139.7	134.1	144.0	145.2
10K	122.4	126.2	131.1	123.8	138.3	133.1	143.7	144.7
83	123.4	139.8	123.7	126.7	132.8	138.8	128.3	134.6
125	124.9	138.3	126.2	131.2	136.8	142.1	132.4	137.1
250	133.1	143.2	135.1	139.0	142.3	145.1	137.6	142.8
500	132.2	145.1	144.8	137.3	145.5	146.6	146.6	144.8
1K	128.3	132.5	139.5	137.0	147.9	144.2	144.1	143.9
2K	131.1	132.3	141.3	137.0	148.9	141.4	145.5	146.6
4K	132.1	134.2	141.5	136.3	149.8	141.0	151.2	152.0
8K	128.4	131.9	137.1	130.7	144.6	138.9	148.9	150.1
LP-8	139.3	148.5	148.8	144.8	155.1	152.1	155.1	155.9
SIL	130.5	133.0	140.7	136.8	148.9	142.2	147.0	147.5
008A	137.8	144.1	148.1	143.4	155.1	149.7	155.1	155.8
PnDB	152.6	157.7	161.7	157.4	169.2	163.3	169.4	170.4
*STAMP 0								

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 15152 APR 29, '80 TEST 10716
 YF-12 INLET NOISE SUPPRESSION
 RUN 135
 SPIKE AFT
 BYPASS DOORS OPEN
 5800 RPM

RUN	79	80	81	82	83	84	85	86	87	88
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	80.4	81.4	80.7	82.4	82.1	83.1	85.1	86.0	77.9	87.1
63	83.0	83.6	83.4	83.4	85.3	85.3	88.0	90.0	81.8	86.8
80	82.7	83.6	82.7	83.1	85.3	86.2	86.6	88.7	80.5	86.8
100	85.8	84.9	83.1	85.3	86.1	87.3	87.4	89.7	80.3	87.3
125	86.1	85.3	84.6	85.9	85.9	86.6	89.0	90.5	80.2	88.6
160	86.2	85.6	85.1	86.6	85.9	87.8	90.3	90.4	79.2	90.7
200	88.2	88.4	88.8	89.8	90.4	91.2	89.4	91.2	81.8	92.5
250	92.7	92.4	92.2	91.2	90.9	90.4	90.8	90.9	80.9	91.7
315	93.3	92.8	91.0	92.7	91.6	91.0	90.0	90.1	81.5	90.1
400	94.7	94.9	94.9	94.0	92.7	92.2	90.6	90.3	80.4	90.3
500	95.4	96.4	94.7	95.3	93.9	92.7	91.9	90.8	80.6	87.6
630	97.0	96.9	96.4	96.3	94.7	93.6	92.9	91.4	81.6	86.9
800	95.0	96.1	93.8	93.9	92.9	93.2	91.9	90.9	80.8	86.0
1K	96.0	96.5	93.4	93.4	92.8	93.1	92.3	91.7	81.0	86.3
1.25K	95.5	96.0	93.3	93.9	93.1	93.6	92.2	91.5	81.9	89.2
1.6K	96.0	94.3	92.8	92.9	92.3	93.4	91.2	90.5	79.4	85.3
2K	97.3	95.0	93.5	93.3	92.2	92.9	90.9	90.6	79.3	83.8
2.5K	99.6	97.2	96.2	95.2	93.4	93.8	90.4	90.6	78.4	83.0
3.15K	99.5	97.3	96.3	96.0	93.1	93.2	90.2	90.5	78.0	82.4
4K	96.9	95.2	93.6	92.8	91.5	91.7	89.4	89.8	77.7	83.8
5K	95.0	92.9	91.4	90.3	83.6	89.2	87.4	87.7	75.8	82.1
6.3K	92.2	89.9	88.7	87.0	86.3	86.8	84.4	85.4	73.4	80.7
8K	92.6	89.6	88.7	87.9	85.9	85.9	86.5	87.0	78.2	85.9
10K	89.3	86.9	85.8	84.9	82.7	82.9	84.4	84.4	76.5	88.6
63	86.9	87.8	87.2	87.8	89.2	91.1	91.5	93.3	85.1	91.7
125	90.8	90.1	89.1	90.7	90.7	92.0	93.8	95.0	84.7	93.9
250	96.7	96.4	95.7	96.1	95.8	95.7	95.0	95.5	86.2	96.3
500	100.6	100.9	100.1	100.1	98.6	97.6	96.7	95.6	85.7	93.3
1K	100.3	101.0	98.3	98.8	97.6	98.1	96.9	96.1	86.0	92.2
2K	102.6	100.5	99.1	98.7	97.8	98.0	95.6	95.3	83.9	88.9
4K	102.3	100.2	99.0	98.4	96.2	96.4	94.0	94.3	82.0	87.6
8K	96.4	93.8	92.7	91.6	90.0	90.2	90.0	90.8	81.2	90.9
LP-8	108.3	107.4	106.0	105.9	104.7	104.9	103.7	103.8	93.7	101.6
SIL	101.7	100.6	98.8	98.8	97.1	97.8	95.8	95.2	84.0	89.6
ODBA	108.2	106.9	105.4	105.1	103.7	103.9	102.2	101.8	91.1	97.7
PNDB	122.2	120.6	119.4	119.2	117.4	117.6	115.8	115.9	104.7	111.5

*STOP 0

Add 5.0 dB to all values of F9

Add 10.0 dB to all values of F10

YF-12 INLET NOISE SUPPRESSION
 09127 MAY 23, 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 135
 SPIKE ALT
 BYPASS DOORS OPEN
 5800 RPM

NUN	131	132	133	134	135	136	137	138
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	117.0	129.9	118.6	121.1	127.8	134.5	122.3	127.0
63	118.2	130.9	119.6	122.5	129.5	135.3	123.8	128.2
80	119.2	131.7	120.0	123.8	130.7	136.5	125.0	129.2
100	119.5	133.1	121.3	124.8	131.6	137.3	127.4	130.8
125	120.6	134.2	121.8	126.8	133.6	138.3	128.1	132.2
160	120.1	134.6	122.9	129.2	134.4	138.7	129.1	133.9
200	124.4	136.0	125.9	133.0	136.7	139.6	130.9	136.7
250	128.0	137.8	130.5	136.3	138.3	140.5	133.2	139.1
315	130.4	141.6	133.8	135.4	140.0	141.7	135.4	140.2
400	130.4	143.7	138.6	134.7	141.6	143.3	137.9	141.3
500	126.6	141.2	142.4	134.2	143.0	142.9	143.0	141.1
630	124.2	135.9	142.9	132.5	144.3	142.1	145.8	144.1
800	122.5	129.2	138.3	132.2	144.3	141.4	143.1	143.1
1K	123.8	127.1	133.9	134.1	143.3	140.7	139.7	139.7
1.25K	124.6	129.6	134.7	134.8	142.4	140.0	139.1	139.3
1.6K	123.2	126.8	136.6	133.5	143.3	138.9	141.6	141.3
2K	124.3	126.5	135.8	132.3	145.0	137.9	140.9	142.7
2.5K	127.1	128.8	137.6	133.4	146.7	137.8	144.1	144.8
3.15K	127.5	129.9	138.0	132.8	147.4	137.9	150.0	150.6
4K	125.3	128.7	135.8	131.7	145.8	137.9	148.8	150.4
5K	124.9	127.7	134.3	129.9	144.3	137.8	147.4	148.2
6.3K	123.6	127.7	133.5	128.4	142.8	137.4	147.1	148.2
8K	122.7	127.4	132.5	126.6	141.4	136.3	146.5	147.9
10K	121.8	126.7	131.6	124.9	140.1	135.2	145.9	147.1
125	123.0	139.7	124.2	127.3	134.3	140.3	128.6	133.0
160	124.9	138.8	126.8	132.1	138.1	142.9	133.0	137.2
200	133.0	143.9	135.9	139.9	143.3	145.5	138.3	143.7
250	132.6	146.1	146.4	138.7	147.9	147.6	148.1	147.2
1K	128.5	133.5	140.8	138.6	150.3	145.7	145.8	145.8
2K	129.9	132.3	141.5	137.9	150.0	143.0	147.2	147.9
4K	130.7	133.6	141.1	136.4	150.8	142.6	153.7	154.7
8K	127.5	132.0	137.4	131.6	146.3	141.2	151.3	152.5
LP-8	138.9	149.2	149.7	145.9	156.6	153.2	157.2	158.2
SIL	129.7	133.1	141.1	137.6	150.4	143.8	148.9	149.5
ODJA	137.0	144.7	148.7	144.3	156.9	151.1	157.3	158.2
PND8	151.6	158.3	161.8	157.9	170.3	164.6	171.4	172.3

*S18P=0

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 19142 FEB 14, 1980 TEST 10021
 YF-12 INLET NOISE SUPPRESSION
 RUN 136
 SPIKE AFT
 BYPASS DOORS OPEN
 6000 RPM

RUN	34	35	36	37	38	39	40	41	42	43
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	81.1	81.8	81.6	83.4	83.1	83.9	85.6	86.9		98.4
63	83.8	84.1	84.2	84.1	86.3	88.4	87.9	90.7		98.5
80	83.5	84.4	84.0	84.6	86.9	87.4	87.9	90.4		98.2
100	86.9	85.8	84.6	86.7	87.2	88.2	88.1	91.0		98.7
125	86.9	86.1	85.8	87.2	86.9	87.5	89.9	91.8		100.0
160	87.5	86.5	86.1	87.7	87.1	89.6	91.0	91.0		102.1
200	89.1	89.5	90.2	91.5	92.6	93.0	90.6	93.2		103.0
250	93.1	93.0	93.0	92.1	92.1	91.7	91.6	92.7		102.3
315	93.9	93.4	92.2	93.7	92.4	92.1	90.8	91.2		100.8
400	95.2	95.3	95.9	94.9	93.5	92.9	91.5	91.2		100.3
500	96.2	96.9	95.7	96.2	95.2	93.8	93.1	92.7		98.0
630	97.4	97.1	96.8	96.2	94.9	94.2	92.6	91.8		97.5
800	95.1	96.0	94.3	93.9	93.1	93.9	92.6	91.9		97.1
1K	95.3	95.6	93.6	93.5	92.8	93.5	92.8	92.3		94.6
1.25K	95.2	95.5	93.8	94.3	93.7	94.6	94.4	92.6		101.0
1.6K	95.5	94.1	92.7	93.0	92.5	94.0	92.3	91.6		97.6
2K	95.9	94.0	93.3	93.2	92.3	93.1	91.4	91.5		95.0
2.5K	96.4	94.4	94.0	93.5	92.1	92.7	90.6	91.0		93.8
3.15K	96.2	94.0	93.5	93.5	91.0	91.4	90.1	90.5		92.9
4K	94.5	93.1	91.9	91.2	89.9	90.8	89.8	90.3		94.2
5K	92.8	91.1	89.9	88.9	87.5	88.5	87.8	88.0		93.3
6.3K	90.4	88.2	87.2	85.8	85.3	86.2	84.8	85.9		90.7
8K	91.0	88.2	87.5	86.8	85.0	85.3	84.6	87.0		94.3
10K	88.2	85.7	85.0	84.2	82.3	83.1	85.0	85.2		97.9
63	87.7	88.3	88.2	88.8	90.5	91.7	92.1	94.4		103.1
125	91.9	90.9	90.3	92.0	91.8	93.3	94.6	96.1		105.3
250	97.3	97.1	96.7	97.3	97.2	97.1	98.8	97.2		106.8
500	101.1	101.3	100.9	100.6	99.4	98.5	97.2	96.7		103.5
1K	100.0	100.5	98.7	98.7	98.0	98.8	98.1	97.0		103.5
2K	100.7	98.9	98.1	98.0	97.1	98.1	96.2	96.1		100.5
4K	99.5	97.7	96.8	96.4	94.5	95.2	94.1	94.5		98.3
8K	94.8	92.3	91.5	90.8	89.2	89.8	90.3	90.9		100.0
LP-8	107.3	106.7	105.9	105.8	105.0	105.3	104.5	104.8		112.4
SIL	100.1	99.0	97.9	97.7	96.5	97.3	96.2	95.9		100.8
80BA	106.7	105.7	104.7	104.6	103.5	104.0	102.9	102.6		108.5
PNOB	120.3	118.9	118.1	118.1	116.7	117.2	116.1	116.4		122.1

*618P= 0

YF-12 INLET NOISE SUPPRESSION
10:34 MAY 23, '80 TEST 109J3
YF-12 INLET NOISE SUPPRESSION

RUN 137

SPIKE APT

BYPASS DOORS OPEN

6000 RPM

6200

HUN	153	154	155	156	157	158	159	160
FREQ (Hz)	TH 1 K1 0. DEG	TH 2 K6 0. DEG	TH 3 K3 0. DEG	TH 4 K8 0. DEG	TH 5 K8 0. DEG	TH 6 K10 0. DEG	TH 7 K14 0. DEG	TH 8 K12 0. DEG
50	117.1	130.3	119.2	121.4	129.1	136.1	123.7	126.7
63	118.8	131.8	120.8	122.4	130.8	136.8	125.2	128.3
80	119.8	133.0	121.5	123.8	132.8	137.7	126.3	129.8
100	120.4	133.9	122.2	125.4	133.6	138.6	127.7	131.1
125	121.9	134.5	122.9	127.0	135.5	139.5	129.2	133.1
160	121.1	135.4	123.9	129.5	136.1	139.4	130.3	134.8
200	125.4	137.1	127.0	133.3	138.0	140.5	131.8	137.4
250	129.2	139.3	131.6	136.6	139.5	141.5	134.2	139.6
315	131.6	142.9	135.1	138.1	141.5	142.3	136.2	141.4
400	131.4	144.6	140.2	135.3	145.4	144.5	138.9	142.4
500	128.1	142.2	144.6	135.6	145.6	144.4	145.1	142.9
630	124.0	136.9	143.3	133.2	149.2	143.8	147.7	145.4
800	122.6	130.4	139.2	132.7	151.4	143.5	145.7	145.8
1K	123.7	128.3	134.5	134.7	145.8	142.9	142.2	142.3
1.25K	125.5	132.0	137.3	135.9	145.1	142.7	141.3	143.5
1.6K	122.9	127.3	136.9	133.9	145.1	141.4	143.2	143.5
2K	122.6	126.2	135.6	132.1	146.5	140.6	143.2	144.9
2.5K	122.9	126.6	135.8	132.1	145.9	140.6	145.5	147.1
3.15K	122.9	126.4	135.0	130.7	145.4	140.0	150.3	150.1
4K	122.4	126.4	133.8	130.1	143.9	139.7	151.3	152.9
5K	122.4	126.1	133.0	128.6	143.2	140.1	149.2	150.2
6.3K	121.9	126.4	132.7	127.4	142.3	140.1	148.6	149.1
8K	121.7	126.6	132.0	125.8	141.3	139.1	148.0	148.7
10K	121.1	126.4	131.5	124.3	140.3	138.3	147.1	147.9
83	123.5	138.6	125.4	127.4	135.8	141.7	130.0	133.2
125	125.9	139.4	127.9	132.4	140.0	143.9	134.0	138.0
250	134.2	145.2	137.2	140.3	144.7	146.3	139.2	144.6
500	133.6	147.1	147.8	139.6	151.9	149.1	149.9	148.5
1K	128.8	135.2	142.2	139.4	153.2	147.8	148.3	148.9
2K	127.5	131.5	140.9	137.6	150.7	145.6	148.9	150.2
4K	127.3	131.1	138.8	134.7	149.0	144.7	155.1	156.0
8K	126.4	131.2	136.9	130.8	146.1	144.0	182.7	183.4
LP-8	139.0	150.2	150.3	146.1	158.1	155.0	158.9	159.6
51L	127.9	132.6	140.6	137.2	151.0	146.1	150.8	151.7
80JA	136.0	145.4	148.9	144.3	157.5	153.2	158.9	159.6
PNOB	149.5	158.6	160.7	157.2	170.1	166.6	172.9	174.1

*STOP 0

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 09117 FEB 15, '80 TEST 10021
 YF-12 INLET NOISE SUPPRESSION
 RUN 138
 SPIKE AFT
 BYPASS DOORS OPEN
 6400 RPM

RUN	56	57	58	59	60	61	62	63	64	65
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	84.4	85.0	85.1	87.1	86.7	86.9	88.6	90.0	85.9	102.5
63	87.5	87.7	88.2	87.3	89.7	91.1	90.6	94.0	89.1	103.1
80	88.4	89.0	88.5	88.4	90.8	91.3	91.8	94.1	89.9	102.9
100	90.0	88.8	87.8	89.5	90.0	90.7	91.2	94.9	90.0	103.0
125	91.3	90.4	90.1	91.0	91.2	91.4	94.5	94.0	90.0	103.8
160	91.1	89.6	89.1	90.1	89.5	91.9	93.6	93.9	88.3	105.5
200	90.2	90.0	91.2	92.2	93.2	94.4	92.4	95.1	90.5	105.6
250	93.7	93.7	94.1	93.7	94.1	93.8	93.3	95.4	88.9	103.2
315	94.9	94.3	93.0	94.8	93.9	93.5	92.7	92.8	88.4	102.2
400	95.5	95.8	96.4	96.1	94.5	93.7	92.8	92.7	87.7	101.7
500	95.8	96.4	95.6	96.5	95.5	94.4	94.2	93.7	88.5	100.4
630	95.9	95.7	95.6	95.2	93.9	93.7	92.9	93.0	88.7	100.1
800	94.0	94.9	93.6	93.7	93.4	94.2	93.5	92.9	88.8	99.1
1K	94.4	94.8	93.2	93.9	93.2	93.9	94.0	93.7	88.4	98.3
1.25K	94.2	94.7	93.5	94.4	93.6	94.9	95.0	93.7	89.8	99.5
1.6K	94.5	93.6	92.6	93.3	92.6	94.3	93.8	93.8	89.8	100.7
2K	93.2	92.0	92.1	92.4	91.5	92.8	91.8	92.4	86.7	96.6
2.5K	92.5	91.2	91.7	91.9	91.2	92.1	91.2	92.2	85.4	95.0
3.15K	92.2	90.9	91.0	91.5	89.4	90.5	90.2	91.2	84.0	93.7
4K	91.5	90.6	89.9	89.5	88.5	90.3	90.1	91.2	84.1	94.0
5K	90.1	88.9	88.1	87.6	86.4	87.9	88.3	89.0	82.2	93.7
6.3K	87.9	86.3	85.6	84.4	84.3	85.6	85.0	86.6	79.3	91.0
8K	89.1	86.7	86.2	85.5	84.0	84.6	86.1	87.0	81.7	92.6
10K	86.6	84.6	84.1	83.2	81.7	82.6	84.4	85.1	81.6	95.2
63	91.9	92.3	92.3	92.4	94.2	94.9	95.3	97.9	93.4	107.6
125	95.6	94.4	93.9	95.0	95.0	96.1	98.1	99.8	94.3	109.0
250	98.1	97.8	97.7	98.5	98.5	98.7	97.6	99.4	94.2	108.7
500	100.5	100.8	100.7	100.7	99.4	98.7	98.1	97.9	93.1	105.5
1K	99.0	99.6	98.2	98.8	98.2	99.1	99.0	98.2	93.8	103.7
2K	98.2	97.1	96.9	97.3	96.6	97.9	97.2	97.6	92.5	102.9
4K	96.1	95.0	94.6	94.6	93.1	94.5	94.4	95.3	88.3	98.6
8K	92.7	90.7	90.2	89.3	88.2	89.9	90.0	91.1	85.8	98.1
LP-B	106.4	106.1	105.7	106.1	105.5	106.0	105.9	106.8	101.7	114.8
SIL	97.8	97.2	96.6	96.9	95.9	97.8	96.8	97.1	91.4	101.7
ODBA	104.7	104.4	103.8	104.1	103.2	104.0	103.7	103.8	98.6	109.6
PMOB	118.1	117.3	117.0	117.3	116.4	117.7	116.9	117.7	112.0	123.6
*STOP 0										

YF-12 INLET NOISE SUPPRESSION
 10132 MAY 23 1960 TEST 10933
 YF-12 INLET NOISE SUPPRESSION
 RUN 134
 SPIKE AFT
 BYPASS DRUMS OPEN
 6400 RPM

RUN	164	165	166	167	168	169	170	171
FREQ (Hz)	TR 1 K1 0: DEG	TR 2 K6 0: DEG	TR 3 K3 0: DEG	TR 4 K8 0: DEG	TR 5 K5 0: DEG	TR 6 K10 0: DEG	TR 7 K14 0: DEG	TR 8 K12 0: DEG
50	118.1	130.6	119.4	121.5	129.5	136.4	123.7	127.2
63	119.6	132.1	120.5	123.0	131.5	137.6	125.3	128.5
80	120.6	132.9	121.5	124.1	133.0	138.3	126.5	130.0
100	121.3	134.0	122.6	125.7	134.1	138.9	128.3	131.4
125	122.8	135.1	122.9	127.3	136.0	139.6	129.1	133.6
160	122.1	135.8	124.1	129.8	136.6	139.8	130.8	135.4
200	126.3	137.3	126.9	133.3	138.6	141.0	132.2	137.9
250	130.1	139.8	131.8	136.8	139.9	141.6	134.7	140.0
315	132.4	143.1	135.5	138.4	142.1	142.5	136.5	141.9
400	132.3	144.8	140.3	135.4	146.9	144.8	139.2	142.9
500	128.1	142.1	143.8	135.2	149.5	144.9	145.9	143.6
630	124.1	136.8	142.2	133.0	151.3	144.6	148.2	145.8
800	122.9	130.5	137.9	132.6	150.8	144.2	147.4	146.2
1K	124.2	128.5	134.4	134.9	146.7	143.6	143.0	146.3
1.25K	125.9	131.4	136.9	136.1	145.7	143.8	142.3	145.4
1.6K	123.4	127.5	136.8	134.1	145.7	142.4	143.8	144.2
2K	122.5	126.2	135.4	132.2	146.4	141.7	144.0	145.4
2.5K	122.6	126.4	135.4	132.1	145.8	141.7	145.7	146.2
3.15K	123.1	126.1	134.8	130.8	145.0	141.1	148.7	148.1
4K	122.8	126.0	133.7	130.2	143.4	140.9	150.4	150.9
5K	122.9	125.8	132.9	128.8	142.7	141.2	148.6	149.4
6.3K	122.6	126.3	132.6	127.6	141.8	141.1	148.1	148.6
8K	122.5	126.6	132.0	126.1	141.0	140.1	147.6	148.1
10K	122.0	126.4	131.6	124.5	140.1	139.3	146.7	147.3
63	124.4	136.7	125.3	127.8	136.3	142.3	130.1	133.5
125	126.9	139.8	128.0	132.7	140.5	144.2	134.2	138.5
250	135.1	145.5	137.4	140.5	145.2	146.5	139.6	145.0
500	134.2	147.1	147.1	139.4	154.4	149.5	150.6	149.1
1K	129.3	135.1	141.4	139.5	153.1	148.6	149.6	150.7
2K	127.6	131.5	140.7	137.7	150.6	146.7	149.3	150.1
4K	127.7	130.8	138.6	134.8	148.8	145.8	154.1	154.4
8K	127.2	131.2	136.9	131.0	145.8	145.0	152.3	152.8
LP-8	139.6	150.3	149.8	146.2	158.8	155.7	158.6	159.1
SIL	128.2	132.4	140.3	137.3	150.8	147.1	151.0	151.8
ODBA	136.4	145.5	148.4	144.4	157.9	154.1	158.5	159.0
PNDB	150.0	158.7	160.5	157.3	170.2	167.5	172.4	173.2
*STBP= 0								

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 16107 FER 14, 180 TEST 10021
 YF-12 INLET NOISE SUPPRESSION
 RUN 139
 SPIKE AFT
 BYPASS DBS ON OFEN
 6400 RPM

RUN	67	68	69	70	71	72	73	74	75	76
FREQ (HZ)	TR 1 F1 0° DEG	TR 2 F2 10° DEG	TR 3 F3 20° DEG	TR 4 F4 30° DEG	TR 5 F5 40° DEG	TR 6 F6 50° DEG	TR 7 F7 70° DEG	TR 8 F8 90° DEG	TR 9 F9 110° DEG	TR 10 F10 135° DEG
50	87.8	88.4	88.6	90.4	90.1	90.5	92.1	93.8	95.9	108.4
63	90.1	90.6	91.0	90.7	92.0	93.6	93.5	96.0	98.2	109.0
80	95.4	96.5	96.9	95.4	97.4	98.0	98.2	100.8	103.1	109.2
100	93.8	93.3	92.2	94.0	94.7	95.9	95.7	99.1	100.6	109.0
125	96.0	94.7	94.2	96.0	95.0	96.0	99.0	100.2	100.4	109.9
160	96.9	94.4	94.0	95.0	95.0	97.8	98.8	98.4	100.6	110.0
200	96.0	95.0	95.8	96.4	97.4	98.8	97.4	99.7	102.5	110.8
250	95.2	95.7	95.8	95.5	96.3	96.7	97.6	99.0	99.7	109.1
315	95.5	95.4	94.4	96.4	95.8	95.4	95.9	96.6	99.2	107.4
400	95.1	95.8	96.4	96.1	94.9	94.7	94.5	95.8	97.5	106.2
500	94.8	95.7	95.0	95.9	94.9	94.9	95.3	95.6	97.8	104.9
630	94.7	95.1	95.1	94.6	93.9	94.8	94.5	95.3	97.9	103.8
800	93.5	94.8	93.6	94.5	93.9	95.1	94.8	95.2	97.7	102.8
1K	93.8	94.2	93.4	94.2	93.6	94.5	95.0	94.8	96.4	101.1
1.25K	93.4	94.4	93.6	94.4	93.7	95.0	95.1	94.7	97.4	101.0
1.6K	93.7	93.1	92.9	93.5	92.9	94.7	94.0	94.7	97.5	100.8
2K	92.4	91.8	92.2	92.7	91.8	93.2	92.5	93.2	94.9	97.9
2.5K	91.9	91.0	91.8	92.3	91.3	92.5	91.7	92.9	93.9	96.4
3.15K	91.7	90.7	91.1	92.0	89.7	90.4	90.7	92.0	91.7	95.2
4K	90.9	90.5	89.9	89.7	88.8	90.6	90.8	91.7	91.3	94.9
5K	89.8	88.7	88.2	87.9	86.6	88.1	88.5	89.5	89.4	94.0
6.3K	87.7	86.3	85.7	84.8	84.5	85.8	85.1	87.2	86.4	91.5
8K	88.8	86.9	86.5	86.0	84.2	84.4	86.0	87.3	87.9	92.9
10K	86.4	85.0	84.5	83.6	81.7	82.2	83.7	84.8	87.6	93.4
63	97.1	98.0	97.0	97.7	99.1	99.9	100.2	102.7	104.9	113.7
125	100.5	98.9	98.3	99.8	99.7	101.4	102.8	104.1	108.3	114.4
250	100.4	100.1	100.2	100.9	101.3	101.9	101.8	103.4	105.5	114.1
500	99.6	100.3	100.3	100.4	99.3	99.6	99.5	100.3	102.5	109.9
1K	98.4	99.3	98.3	99.2	98.5	99.6	99.7	99.7	101.9	106.5
2K	97.5	96.8	97.1	97.4	96.8	98.4	97.6	98.4	100.5	103.5
4K	95.6	94.9	94.7	95.0	93.3	94.7	94.9	96.0	95.7	99.5
8K	92.5	90.9	90.4	89.7	88.4	89.9	89.8	91.4	92.1	97.5
LP-8	107.4	107.2	106.9	107.5	107.3	108.3	108.6	109.9	111.8	119.8
SIL	97.2	97.0	96.7	97.3	96.2	97.6	97.4	98.0	99.4	103.2
SDBA	104.2	104.2	103.9	104.4	103.6	104.7	104.6	105.2	107.0	112.4
PNDB	118.2	117.7	117.6	118.2	117.2	118.3	118.2	119.3	120.6	124.2
STOP 0										

VF-12 INLET NOISE SUPPRESSION
 10144 MAY 23, 1980 TEST 10933
 VF-12 INLET NOISE SUPPRESSION
 RUN 139
 SPIKE AFT
 BYPASS DRUMS OPEN
 6600 RPM

NUN	175	176	177	178	179	180	181	182
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	117.5	131.3	119.2	121.9	130.1	137.1	123.7	127.3
63	118.9	132.6	121.0	123.3	131.7	138.3	125.2	129.1
80	120.2	133.7	121.6	124.1	133.2	138.8	126.7	130.6
100	120.9	134.9	122.6	125.8	134.7	139.5	128.1	132.0
125	122.5	135.8	122.8	127.4	136.6	140.2	129.6	133.6
160	121.6	136.5	124.1	130.0	137.3	140.4	130.8	135.6
200	125.4	138.3	126.9	133.6	139.1	141.4	132.3	137.9
250	129.6	140.2	131.9	137.1	140.7	142.1	134.7	140.1
315	131.8	143.7	135.6	136.5	143.1	142.8	136.8	142.2
400	131.1	145.3	139.2	135.0	148.2	144.7	139.5	143.6
500	126.4	142.5	142.1	134.3	149.6	145.4	146.4	144.3
630	122.3	138.9	141.1	132.9	149.7	145.3	148.6	146.5
800	121.7	130.9	137.0	132.8	149.7	144.8	147.2	147.0
1K	122.9	129.0	134.1	134.9	146.9	144.2	143.7	143.7
1.25K	124.5	131.3	136.5	136.0	145.9	144.5	142.7	143.9
1.6K	122.3	127.6	136.8	134.2	145.4	143.3	144.2	144.2
2K	121.3	126.4	135.3	132.3	145.7	142.8	144.8	145.8
2.5K	121.4	126.4	135.5	132.2	145.0	142.7	145.7	146.1
3.15K	122.0	126.1	134.9	130.9	144.6	142.2	147.6	147.7
4K	121.8	126.0	133.7	130.3	143.0	142.0	148.9	149.3
5K	122.0	125.9	132.9	128.9	142.3	142.3	148.0	148.8
6.3K	121.8	126.2	132.7	127.8	141.5	142.0	147.5	148.1
8K	121.8	126.5	132.2	126.2	140.6	141.0	147.1	147.6
10K	121.3	126.4	131.7	124.6	139.8	140.2	146.3	147.0
63	123.8	137.4	125.9	128.0	136.8	142.9	130.1	133.9
125	126.5	140.5	128.0	132.8	141.1	144.8	134.4	138.8
250	134.4	146.1	137.5	140.7	146.0	146.9	139.7	145.2
500	132.8	147.5	145.7	138.9	154.0	149.9	151.0	149.7
1K	128.0	135.3	140.8	139.5	152.6	149.3	149.8	149.9
2K	126.4	131.6	140.7	137.8	150.3	147.7	149.7	150.3
4K	126.7	130.8	138.7	134.9	148.2	147.0	153.0	153.3
8K	126.4	131.2	137.0	131.2	145.5	145.9	151.8	152.3
LP-8	138.6	150.8	149.0	146.2	158.4	156.3	158.3	158.6
SIL	127.0	132.6	140.1	137.4	150.3	148.0	150.8	151.2
008A	135.3	145.8	147.8	144.4	157.4	154.9	158.1	158.4
PNOB	148.9	159.1	160.3	157.3	169.9	168.4	171.7	172.3

*STOP = 0

Subtract 4.0 dB from all values of K12

YF-12 INLET NOISE SUPPRESSION
 16134 DEC 05, 1979 TEST 9224
 YF-12 INLET NOISE SUPPRESSION
 RUN 148
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

NUM	103	104	105	106	107	108	109	110	111	114
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	81.1	83.3	84.6	82.4	82.6	82.2	86.2	88.4	90.7	93.2
63	81.8	81.5	83.0	80.7	82.7	85.7	86.2	88.7	90.5	92.0
80	83.6	82.9	84.9	83.0	84.9	86.4	86.6	87.9	89.0	92.8
100	92.1	88.5	89.4	88.4	87.9	87.5	88.6	89.5	89.9	93.9
125	89.8	88.0	90.5	88.2	88.8	88.4	89.9	90.4	89.1	94.9
160	89.3	89.3	90.5	89.5	90.2	90.4	89.8	89.5	88.3	98.1
200	87.2	88.0	90.1	89.1	88.1	89.5	87.7	89.5	88.8	98.7
250	89.6	88.9	92.7	89.5	90.5	88.3	89.0	88.8	90.2	99.3
315	89.2	88.3	90.0	88.9	87.7	88.3	87.5	88.0	89.8	97.4
400	91.2	90.9	94.3	90.7	89.6	89.7	87.7	88.0	89.6	97.8
500	93.6	94.2	94.7	92.5	91.4	90.8	90.4	90.6	92.6	98.0
630	95.0	94.8	96.7	93.8	93.1	93.1	93.3	92.8	93.8	98.2
800	94.6	95.2	95.5	93.3	92.6	93.4	91.9	91.5	92.6	96.5
1K	95.3	95.0	95.2	92.7	93.0	93.1	91.7	91.2	92.5	95.5
1.25K	94.8	94.0	93.7	92.5	92.9	92.9	91.2	90.0	91.4	94.0
1.6K	95.6	94.9	95.6	93.8	93.9	93.7	91.4	90.2	91.1	93.2
2K	98.7	98.1	98.2	95.0	94.8	94.3	91.7	90.2	90.6	93.5
2.5K	106.2	106.1	105.9	102.7	101.6	100.1	94.3	91.3	90.7	94.0
3.15K	102.9	104.1	104.0	102.1	101.3	99.7	95.3	91.5	89.9	92.5
4K	96.6	98.7	97.5	94.2	94.2	94.2	90.3	88.5	86.5	90.6
5K	96.7	98.1	96.7	94.5	93.5	92.2	88.8	86.4	86.2	90.2
6.3K	94.4	96.2	93.6	92.3	92.5	90.6	88.0	86.6	86.6	90.4
8K	93.7	95.5	94.5	92.7	92.0	91.3	90.3	90.1	90.2	98.6
10K	91.2	92.4	91.0	88.7	87.4	86.8	85.6	83.0	83.3	91.7
63	87.1	87.4	89.0	86.9	88.3	89.9	91.1	93.1	94.9	97.5
125	95.3	93.4	95.0	93.6	93.8	93.7	94.2	94.6	93.9	100.8
250	93.5	93.2	95.9	94.0	93.7	93.5	92.2	93.6	94.4	103.3
500	98.3	98.4	100.1	97.3	96.4	96.2	95.8	95.6	97.1	102.7
1K	99.7	99.5	99.6	97.6	97.6	97.9	96.4	95.7	97.0	100.2
2K	107.2	107.0	106.2	103.2	103.0	101.8	97.5	95.4	95.6	98.3
4K	104.6	106.0	105.5	103.5	102.7	101.4	97.2	94.1	92.7	96.0
8K	98.1	99.8	98.0	96.3	96.0	94.7	93.2	92.2	92.3	99.9
LP-8	110.4	110.8	110.7	108.3	107.6	106.8	104.3	103.5	104.1	109.5
91L	103.8	104.2	104.0	101.7	101.1	100.4	97.0	95.1	95.1	98.2
80BA	111.0	111.4	111.2	108.7	108.0	106.9	103.5	101.8	102.2	106.4
PNDB	125.3	125.5	125.4	122.9	122.3	121.3	118.1	116.1	115.7	120.3

2812P: 0

Subtract 2.0 dB from all values of F3

YE-12 INLET NOISE SUPPRESSION
 13147 NOV 08, 1979 TEST 9156
 YE-12 INLET NOISE SUPPRESSION
 RUN 148
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	86	87	88	89	90	91
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	102.7	138.9	122.8	129.9	124.3	142.6
63	104.7	139.8	124.5	130.8	125.4	143.4
80	107.0	140.9	126.3	132.2	126.7	144.1
100	115.9	141.9	128.5	133.9	128.7	144.6
125	118.6	142.9	130.4	135.5	130.1	145.5
160	122.0	143.9	132.7	135.8	131.1	146.1
200	123.7	145.0	133.5	138.0	132.8	147.4
250	127.2	146.7	135.3	139.2	133.3	147.9
315	127.4	149.3	136.7	137.2	132.5	147.3
400	126.8	149.7	138.9	134.3	132.0	147.1
500	123.2	146.1	139.9	131.5	131.4	146.3
630	121.0	140.9	138.6	130.2	131.6	145.5
800	121.5	135.6	133.8	130.7	135.7	144.9
1K	122.4	133.3	129.2	132.0	132.6	143.7
1.25K	122.7	133.8	128.7	131.0	128.9	142.8
1.6K	123.4	131.1	130.3	131.1	131.3	141.4
2K	126.2	130.6	132.0	132.0	135.1	140.9
2.5K	135.2	136.3	140.0	138.5	140.5	143.8
3.15K	134.8	137.6	140.1	139.5	140.8	144.8
4K	128.4	133.1	134.4	133.5	135.0	140.1
5K	128.7	132.7	133.9	133.7	134.6	139.5
6.3K	128.8	134.0	134.5	134.5	134.8	140.5
8K	127.3	133.3	133.0	133.3	133.2	139.1
10K	126.3	132.8	132.2	132.9	132.1	138.2
63	109.9	144.7	129.5	135.8	130.4	148.2
125	124.3	147.7	135.6	139.9	134.8	150.2
250	131.2	152.1	140.1	143.0	137.7	152.3
500	129.1	151.6	143.9	137.1	136.4	151.1
1K	127.0	139.2	136.0	136.0	138.0	148.6
2K	135.9	138.2	141.0	140.0	142.0	147.0
4K	136.5	139.9	141.9	141.3	142.5	146.9
8K	132.4	138.2	138.1	138.4	138.3	144.1
LP-8	141.1	156.3	148.9	148.6	147.9	158.2
SIL	133.1	139.1	139.6	139.1	140.9	147.5
80BA	141.3	150.9	147.7	146.6	147.7	154.9
PNOB	155.6	164.7	162.4	162.1	162.4	169.7

YF-12 INLET NOISE SUPPRESSION
 13147 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 148
 SPIKE FORWARD
 BYPASS DOORS OPEN
 5000 RPM

RUN	92	93
FREQ	TR 7 K14	TR 8 K12
(HZ)	0. DEG	0. DEG
50	119.5	124.4
63	121.1	124.5
80	122.3	124.4
100	123.3	124.8
125	124.5	125.5
160	125.6	125.5
200	127.2	127.2
250	129.2	128.7
315	131.4	128.5
400	133.5	128.4
500	137.5	128.0
630	139.7	129.0
800	137.0	130.1
1K	131.9	126.6
1.25K	132.0	125.4
1.6K	133.6	127.8
2K	134.8	130.6
2.5K	142.5	138.6
3.15K	144.1	140.3
4K	140.0	134.8
5K	139.5	134.5
6.3K	141.0	136.8
8K	139.9	136.1
10K	139.5	136.3
63	125.9	129.2
125	129.3	130.0
250	134.3	132.9
500	142.4	133.3
1K	139.1	132.6
2K	143.7	139.6
4K	146.5	142.2
8K	145.0	141.1
LP-8	151.1	146.7
SIL	143.1	138.1
0DBA	151.1	146.7
PND8	165.4	161.3

YF-12 INLET NOISE SUPPRESSION
 16155 DEC 05, 1979 TEST 9226
 YF-12 INLET NOISE SUPPRESSION
 RUN 152
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	115	116	117	118	119	120	121	122	123	124
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	82.6	83.6	85.2	83.8	84.2	84.7	87.1	89.0	91.0	98.3
63	87.5	87.0	88.7	85.6	87.6	90.1	89.6	92.7	93.8	98.6
80	87.9	87.4	88.9	87.1	88.8	89.8	90.3	92.1	93.7	98.5
100	91.8	89.3	90.6	89.4	89.7	90.8	91.1	93.6	94.7	99.5
125	94.3	92.7	96.0	93.1	94.0	94.3	94.6	95.3	94.8	101.2
160	93.0	92.9	93.3	92.5	93.0	93.5	93.0	93.0	93.3	103.6
200	91.3	92.1	94.1	93.1	92.6	94.0	92.5	93.6	94.3	102.1
250	93.1	92.4	95.7	92.3	93.1	91.9	92.8	92.5	94.8	103.0
315	92.5	91.7	93.6	92.6	91.8	92.3	90.9	92.1	93.4	100.8
400	93.7	93.6	97.3	93.8	93.0	92.1	90.4	91.0	92.7	100.0
500	95.8	96.9	98.0	95.6	93.9	92.8	91.0	90.4	91.9	97.8
630	98.4	98.1	99.8	97.0	95.8	93.6	91.9	91.1	93.5	96.9
800	98.3	98.7	98.6	96.0	94.4	93.2	91.2	91.1	92.9	96.4
1K	97.8	97.7	97.5	94.2	93.3	92.1	90.7	91.1	93.5	96.2
1.25K	97.2	97.0	96.8	94.3	94.4	93.3	92.0	92.4	98.0	100.1
1.6K	97.6	97.1	97.9	95.5	95.2	94.2	91.6	91.7	94.9	98.4
2K	98.6	98.5	98.9	95.8	95.8	94.5	91.6	90.8	92.0	94.3
2.5K	102.2	102.3	102.3	98.6	97.9	96.6	92.2	90.8	90.8	93.6
3.15K	104.7	106.0	105.4	102.7	101.4	99.8	95.6	92.6	90.9	93.2
4K	100.8	103.4	102.3	99.5	99.8	98.5	95.0	93.1	90.9	93.3
5K	96.4	98.1	97.3	94.7	94.1	93.1	91.3	89.7	89.9	93.1
6.3K	93.8	95.9	93.3	91.5	91.6	89.6	87.9	87.5	87.6	90.6
8K	93.2	95.4	94.5	92.5	91.7	90.9	89.9	90.1	91.2	94.6
10K	89.9	91.5	90.5	88.7	87.9	87.2	88.1	87.9	90.4	97.8
63	91.3	91.1	92.7	90.5	92.1	93.4	94.0	96.3	97.8	103.2
125	97.9	96.7	98.6	96.7	97.3	97.8	97.9	98.8	99.0	106.5
250	97.1	96.9	99.4	97.4	97.3	97.6	96.2	97.6	99.0	106.8
500	101.2	101.3	103.3	100.4	99.0	97.6	95.9	95.6	97.5	103.2
1K	102.5	102.6	102.5	99.7	98.9	97.7	96.1	96.4	100.2	102.7
2K	104.7	104.7	104.2	101.6	101.2	100.0	96.4	95.9	97.6	100.7
4K	106.6	108.3	107.6	104.8	104.1	102.7	99.1	96.8	95.4	98.0
8K	97.4	99.4	97.9	95.9	95.5	94.2	93.5	93.4	94.8	100.0
LP-8	110.9	111.7	111.8	109.1	108.5	107.6	105.6	105.6	107.0	112.6
5TL	104.6	105.2	105.0	102.0	101.9	100.1	97.3	96.4	97.7	100.5
5UBA	111.1	112.0	111.7	108.9	108.2	106.9	104.0	103.0	104.6	108.3
PMDB	125.7	126.7	126.5	123.9	123.1	121.8	119.0	117.9	117.9	121.9
5818P-0										

Subtract 2.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 13147 NOV 08, 1979 TEST 9154
 YF-12 INLET NOISE SUPPRESSION
 RUN 152
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	98	99	100	101	102	103
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	107.4	140.8	124.9	132.0	126.1	146.9
63	108.2	141.9	124.3	132.7	127.2	147.9
80	111.1	143.1	128.1	134.4	129.0	148.2
100	114.8	144.4	130.5	136.1	131.1	148.5
125	125.5	145.7	132.1	138.4	132.5	149.5
160	125.7	146.9	134.3	139.8	134.2	149.2
200	128.8	148.8	137.2	141.5	136.0	149.7
250	131.0	150.8	138.3	142.3	136.7	150.4
315	131.6	153.6	140.3	140.9	136.4	151.5
400	130.8	154.2	142.5	138.3	136.4	151.5
500	127.7	150.6	143.8	135.9	135.8	151.2
630	126.2	145.6	143.2	134.8	136.5	150.8
800	126.0	140.7	139.1	135.5	140.6	150.2
1K	126.1	138.4	134.4	136.7	137.0	149.2
1.25K	126.4	138.6	134.2	136.0	134.2	148.9
1.6K	127.0	135.7	135.2	135.9	136.1	147.8
2K	128.5	135.0	135.8	135.5	138.8	147.0
2.5K	132.2	135.7	138.4	137.0	139.7	146.4
3.15K	136.2	138.9	141.9	140.6	142.5	147.4
4K	134.7	139.4	141.2	140.5	141.7	148.3
5K	130.6	137.2	137.8	138.0	138.5	147.2
6.3K	128.9	136.5	136.2	136.4	136.7	145.8
8K	127.5	136.4	135.3	135.8	135.6	144.6
10K	125.8	135.3	133.8	135.1	134.1	143.7
63	114.0	146.8	131.4	137.9	132.4	152.5
125	128.8	150.6	137.3	143.1	137.6	153.9
250	135.4	156.3	143.6	146.4	141.2	155.4
500	133.4	156.2	148.0	141.4	141.0	155.9
1K	131.0	144.1	141.3	140.8	142.8	154.3
2K	134.6	140.3	141.5	141.0	143.2	151.9
4K	139.2	143.3	145.4	144.6	146.0	152.5
8K	132.3	140.9	140.0	140.6	140.4	149.6
LP-8	143.1	160.3	152.2	151.7	150.9	162.7
SIL	134.9	142.6	142.7	142.1	144.0	152.9
ODBA	142.7	155.0	150.7	149.4	150.5	160.0
PNDB	157.6	168.6	165.1	164.5	165.1	174.2

YF-12 INLET NOISE SUPPRESSION
 13:47 NOV 08, '79 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 152
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6000 RPM

RUN	104	105
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	121.7	118.3
63	122.8	119.9
80	123.8	120.9
100	125.4	122.7
125	126.5	124.6
160	127.5	126.2
200	129.4	128.6
250	132.2	131.1
315	134.6	132.7
400	136.4	132.5
500	142.0	132.3
630	144.5	136.7
800	141.7	136.0
1K	138.1	131.7
1.25K	137.6	132.5
1.6K	139.9	133.9
2K	139.6	135.0
2.5K	142.9	138.4
3.15K	150.8	145.9
4K	150.3	145.3
5K	147.6	141.8
6.3K	146.6	141.0
8K	145.9	140.9
10K	144.8	139.9
63	127.6	124.6
125	131.3	129.5
250	137.3	135.9
500	146.8	139.1
1K	144.3	138.6
2K	145.8	141.0
4K	154.5	149.4
8K	150.6	145.4
LP-8	157.2	151.9
SIL	148.2	143.0
80BA	157.4	152.2
PND8	171.5	166.4
*STOP	0	

YF-12 INLET NOISE SUPPRESSION
 17123 DEC 05, 1979 TEST 9224
 YF-12 INLET NOISE SUPPRESSION
 RUN 153
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	126	127	128	129	130	131	132	133	134	135
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR10 F10 135. DEG
50	84.2	84.9	86.6	85.1	85.8	85.8	87.8	89.7	91.9	99.8
63	88.2	87.7	89.5	88.1	88.8	90.8	90.4	93.9	94.8	100.5
80	89.1	88.7	90.0	88.1	90.0	90.9	91.7	93.6	94.9	100.1
100	91.9	89.5	90.7	90.0	90.8	90.8	91.8	94.3	95.7	100.7
125	95.2	93.6	94.9	93.9	95.0	94.8	95.8	96.1	95.7	102.3
160	93.7	93.6	93.7	92.9	93.3	94.0	93.7	93.8	94.4	105.0
200	92.6	93.7	95.0	94.4	93.6	95.3	93.5	94.5	95.5	102.8
250	93.6	92.9	96.0	92.8	93.7	92.4	93.7	93.4	96.0	103.3
315	93.5	92.7	94.4	93.4	92.6	93.1	91.7	93.2	94.7	101.2
400	94.1	94.2	97.7	94.5	93.7	92.9	91.4	92.0	93.9	100.9
500	96.5	97.4	98.4	96.1	94.3	93.4	92.2	91.7	93.2	99.0
630	99.0	98.4	100.1	96.9	95.8	94.2	92.1	91.7	94.2	98.2
800	99.1	99.4	98.9	96.3	95.2	94.5	91.4	92.0	94.2	97.6
1K	98.3	97.8	97.8	95.1	94.2	92.2	91.3	92.0	95.0	97.3
1.25K	97.5	96.9	96.8	95.0	94.7	93.9	92.3	92.8	97.8	98.8
1.6K	98.0	97.1	98.2	96.2	96.4	95.2	93.3	93.8	98.4	101.6
2K	98.7	98.1	98.8	96.0	96.2	95.1	92.1	91.4	93.4	96.6
2.5K	100.3	100.3	100.7	97.3	97.0	96.1	92.2	91.1	91.6	94.9
3.15K	101.9	102.7	102.4	100.2	98.8	97.4	93.8	91.7	91.5	93.6
4K	99.3	101.1	100.3	97.6	97.6	96.8	93.4	92.2	91.8	93.4
5K	95.5	96.6	96.1	93.7	93.1	92.2	90.7	89.7	90.6	93.9
6.3K	92.3	93.7	91.6	90.1	90.3	88.4	87.1	87.3	88.0	91.0
8K	91.7	93.3	92.9	91.0	90.4	89.6	89.0	89.3	90.2	93.2
10K	88.4	89.5	89.2	87.6	86.8	86.3	87.5	87.5	90.6	96.9
63	92.4	92.1	93.7	91.5	93.3	94.8	95.0	97.5	98.8	104.9
125	98.6	97.4	99.2	97.3	98.1	98.3	98.8	99.7	100.1	107.8
250	98.0	97.9	100.0	98.4	98.1	98.6	97.8	98.5	100.2	107.3
500	101.7	101.8	103.6	100.7	99.5	98.3	96.7	96.6	98.5	104.3
1K	103.1	103.0	102.7	100.3	99.5	98.6	96.5	97.0	100.7	102.7
2K	103.9	103.5	104.1	101.3	101.2	100.2	97.2	97.1	100.3	103.5
4K	104.4	105.6	105.1	102.7	101.9	100.8	97.6	96.1	96.0	98.4
8K	95.9	97.3	96.2	94.5	94.2	93.1	92.7	92.9	94.7	99.4
LP-8	110.3	110.5	110.9	108.5	108.1	107.4	105.9	106.3	108.1	113.6
SIL	103.8	104.0	104.0	101.3	100.2	99.9	97.1	96.2	99.0	101.5
QUBA	110.0	110.3	110.4	107.9	107.3	106.3	103.7	103.4	105.8	109.2
PNOB	124.3	124.8	124.8	122.5	121.8	120.8	118.4	117.9	119.4	123.4
*STOP	0									

Subtract 2.0 dB from all values of F3

YE-12 INLET NOISE SUPPRESSION
 16109 NOV 08, 1979 TEST 915A
 YE-12 INLET NOISE SUPPRESSION
 RUN 153
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	109	110	111	112	113	114
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	107.3	142.0	124.7	132.8	126.5	147.9
63	108.5	142.7	126.5	133.8	127.5	148.1
80	111.5	143.7	128.7	135.3	129.1	148.5
100	114.4	144.4	130.5	137.0	131.3	149.0
125	126.7	145.9	132.5	139.0	133.3	149.9
160	125.6	147.3	134.4	140.2	134.6	149.6
200	129.6	149.8	137.9	142.3	136.3	150.5
250	131.4	151.6	138.9	142.9	137.1	150.7
315	132.1	154.4	141.0	141.6	137.2	151.8
400	131.4	155.1	143.4	138.8	137.1	152.3
500	128.5	151.5	144.5	136.5	136.6	152.0
630	126.6	146.3	144.0	135.4	137.1	151.7
800	127.0	141.5	140.1	136.2	141.4	151.2
1K	126.8	139.2	135.4	137.3	137.9	150.1
1.25K	127.4	139.4	135.0	136.6	135.2	149.9
1.6K	127.5	136.5	135.9	136.6	136.8	148.7
2K	128.7	135.7	136.3	136.1	139.2	148.0
2.5K	130.8	135.7	137.7	136.6	139.3	147.4
3.15K	133.4	137.4	139.6	138.4	140.4	147.1
4K	132.6	137.9	139.3	138.5	139.9	147.4
5K	129.5	136.6	136.9	137.1	137.5	147.1
6.3K	127.3	136.0	135.3	135.4	135.8	146.2
8K	125.8	135.9	134.3	134.7	134.6	144.8
10K	124.1	135.2	133.3	134.1	133.2	143.9
63	114.3	147.6	131.7	138.8	132.6	153.0
125	129.3	150.8	137.5	143.7	138.0	154.3
250	135.9	157.1	144.3	147.1	141.7	155.8
500	134.1	157.1	148.8	141.9	141.7	156.8
1K	131.9	144.9	142.3	141.5	143.7	155.2
2K	134.0	140.8	141.5	141.2	143.4	152.8
4K	136.9	142.1	143.5	142.9	144.2	152.0
8K	130.7	140.5	139.2	139.5	139.4	149.8
LP-8	142.4	161.0	152.3	151.9	150.7	163.2
SIL	134.3	142.6	142.4	141.9	143.7	153.3
80BA	141.4	155.7	150.4	148.9	150.0	160.6
PNOB	156.1	169.1	164.1	163.7	164.1	174.2

YF-12 INLET NOISE SUPPRESSION
 16:09 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 153
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6200 RPM

RUN	115	116			
FREQ (HZ)	TR 7 K14 Q. DEG	TR 8 K12 Q. DEG			
50	121.3	118.3			
63	123.1	119.9			
80	124.2	121.1			
100	126.3	123.4			
125	127.1	125.1			
160	128.1	126.5			
200	129.9	129.0			
250	132.7	131.4			
315	135.2	133.3			
400	136.8	133.1			
500	142.6	133.2			
630	145.1	136.3			
800	142.4	137.8			
1K	139.3	134.7			
1.25K	138.6	137.0			
1.6K	141.4	134.0			
2K	140.7	136.3			
2.5K	143.5	138.9			
3.15K	148.6	141.4			
4K	149.9	144.0			
5K	147.3	141.5			
6.3K	146.5	140.1			
8K	145.9	140.0			
10K	144.6	139.2			
63	127.8	124.7			
125	132.0	129.9			
250	137.9	136.3			
500	147.4	139.3			
1K	145.2	141.4			
2K	146.8	141.6			
4K	153.5	147.3			
8K	150.5	144.6			
LP-8	156.8	150.9			
SIL	148.5	143.4			
OCBA	157.0	151.0			
PNDB	171.1	165.4			

VF-12 INLET NOISE SUPPRESSION
 17:40 DEC 05, 1979 TEST 9224
 VF-12 INLET NOISE SUPPRESSION
 RUN 154
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	137	138	139	140	141	142	143	144	145	146
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	85.4	86.6	88.3	87.0	87.8	87.9	90.0	92.2	94.7	102.9
63	89.7	89.2	91.2	88.0	89.8	91.2	92.0	95.0	96.1	103.3
80	92.4	92.3	93.5	91.0	92.9	93.7	94.9	96.6	98.3	103.3
100	92.9	90.6	92.3	91.5	91.8	92.3	93.4	96.7	98.1	104.3
125	96.4	94.8	97.7	95.1	96.0	95.9	97.0	98.2	98.0	105.8
160	95.6	94.8	95.1	94.0	94.4	95.4	95.9	95.8	97.3	107.1
200	94.2	95.0	96.5	95.7	95.0	96.5	94.8	96.0	97.8	105.8
250	94.8	94.1	97.1	93.5	94.9	93.8	95.2	95.8	97.8	104.7
315	94.1	93.8	95.2	94.3	93.6	94.4	93.1	94.6	96.3	103.0
400	95.0	94.9	98.4	95.1	94.2	93.4	92.8	93.4	95.7	102.3
500	96.9	98.1	98.9	96.5	94.8	94.1	93.2	93.3	95.0	101.1
630	99.1	98.8	100.4	97.4	96.1	94.8	93.0	93.0	96.3	100.3
800	99.0	100.0	99.1	97.1	95.9	95.5	92.3	93.3	95.7	99.2
1K	98.8	98.4	98.2	95.8	94.8	93.7	92.9	93.6	96.6	98.3
1.25K	97.5	97.1	97.0	95.3	95.0	94.5	92.8	93.6	98.4	98.7
1.6K	98.0	97.2	98.1	96.5	96.4	95.9	94.0	95.3	101.1	101.5
2K	98.3	97.7	98.5	95.7	96.0	95.2	92.5	92.6	95.9	97.9
2.5K	98.7	98.8	99.3	96.2	95.9	95.6	92.4	92.3	93.5	95.2
3.15K	98.7	99.8	99.5	97.4	96.2	95.1	92.3	91.8	92.0	93.9
4K	96.7	98.6	97.8	95.1	95.2	94.6	91.7	92.1	92.0	93.3
5K	93.7	95.0	94.3	92.0	91.5	90.8	89.7	89.8	91.6	93.5
6.3K	90.3	91.8	89.8	88.3	88.7	87.1	86.2	87.6	88.6	91.1
8K	89.4	91.3	91.0	89.0	88.6	88.1	87.6	82.3	90.4	93.1
10K	86.4	87.7	87.7	85.9	85.3	85.1	86.5	87.6	90.7	95.4
63	94.8	94.8	96.3	93.8	95.5	96.5	97.5	99.7	101.4	107.9
125	100.0	98.5	100.3	98.5	99.2	99.6	100.8	101.8	102.6	110.6
250	99.1	99.1	101.1	99.4	99.3	99.8	99.2	100.3	102.1	109.4
500	102.1	102.3	104.1	101.2	99.9	98.9	97.7	98.0	100.5	106.1
1K	103.3	103.5	103.0	100.9	100.0	99.4	97.5	98.3	101.8	103.5
2K	102.1	102.7	103.4	100.9	100.2	100.3	97.8	98.4	102.8	103.7
4K	101.6	103.0	102.5	100.1	99.5	98.7	96.2	96.1	96.7	98.4
8K	93.8	95.4	94.5	92.7	92.6	91.7	91.6	93.0	94.8	98.3
LP-8	109.8	110.0	110.6	108.3	108.0	107.7	106.8	107.9	110.1	115.6
SIL	102.7	103.1	102.9	100.4	100.1	99.5	97.1	97.6	100.9	101.2
80BA	108.9	109.3	109.4	107.1	106.5	105.9	103.8	104.4	107.8	110.0
PNOB	122.6	123.2	123.4	121.2	120.6	120.0	118.2	118.6	121.3	124.2
2578P-0										

Subtract 2.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 16109 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 154
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	122	123	124	125	126	127
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	110.2	141.8	125.7	132.9	127.0	148.5
63	111.0	143.2	126.7	134.1	128.3	148.3
80	113.2	144.3	128.8	135.4	129.7	149.3
100	115.7	145.2	131.1	137.4	131.8	149.4
125	127.1	146.6	132.9	139.0	133.3	150.3
160	126.2	147.6	134.8	140.5	134.9	149.9
200	130.7	150.3	138.5	142.7	136.7	150.8
250	132.1	152.3	139.5	143.3	137.3	151.2
315	132.8	154.9	141.7	141.9	137.4	152.2
400	132.1	155.4	143.7	139.6	137.4	153.2
500	129.1	152.2	145.0	137.2	137.0	152.7
630	127.0	147.2	144.4	135.9	137.6	152.4
800	126.9	142.4	140.6	136.7	142.0	151.8
1K	127.5	140.2	136.1	138.0	138.4	150.9
1.25K	128.0	140.3	135.8	137.3	135.8	150.7
1.6K	127.6	137.4	136.3	136.9	137.2	149.4
2K	128.5	136.7	136.6	136.2	139.5	148.6
2.5K	129.8	136.7	137.2	136.4	138.9	148.0
3.15K	130.9	137.3	137.7	136.7	138.7	147.2
4K	130.2	137.6	137.3	136.6	138.0	146.8
5K	127.9	137.5	135.7	135.8	136.4	146.6
6.3K	126.0	137.5	134.4	134.6	134.9	146.1
8K	124.3	137.1	133.4	133.7	133.7	144.9
10K	122.8	135.8	132.7	133.2	132.4	144.0
63	116.4	148.0	132.0	139.0	133.3	153.5
125	129.9	151.3	138.0	143.9	138.3	154.6
250	136.7	157.7	144.9	147.5	141.9	156.2
500	134.7	157.5	149.2	142.6	142.1	157.5
1K	132.3	145.9	142.9	142.1	144.2	155.9
2K	133.5	141.7	141.5	141.3	143.4	153.5
4K	134.6	142.2	141.7	141.2	142.6	151.7
8K	129.3	141.6	138.3	138.6	138.6	149.9
LP-8	142.1	161.6	152.5	152.0	150.6	163.7
SIL	133.5	143.3	142.0	141.5	143.4	153.7
80BA	140.4	156.2	150.3	148.6	149.7	161.1
PNOB	154.8	169.6	163.4	163.0	163.3	174.4

YF-12-INLET NOISE SUPPRESSION
 16:09 NOV 08, '79 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 15A
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6400 RPM

RUN	129	130			
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG			
50	122.1	118.9			
63	122.8	120.6			
80	124.5	121.7			
100	126.1	124.0			
125	127.3	125.6			
160	128.3	127.0			
200	130.1	129.1			
250	133.1	131.7			
315	135.6	133.6			
400	137.4	133.7			
500	143.5	133.5			
630	145.6	135.9			
800	142.9	138.5			
1K	140.0	138.8			
1.25K	139.2	137.5			
1.6K	141.3	135.1			
2K	141.2	136.2			
2.5K	143.5	137.9			
3.15K	147.6	139.8			
4K	149.2	142.3			
5K	146.5	140.4			
6.3K	146.0	139.5			
8K	145.4	139.1			
10K	144.1	138.4			
63	128.0	125.3			
125	132.1	130.5			
250	138.3	136.6			
500	148.1	139.3			
1K	145.8	143.1			
2K	146.9	141.3			
4K	152.7	145.7			
8K	150.0	143.8			
LP-8	156.5	150.4			
SIL	148.5	143.4			
8DBA	156.5	150.3			
PNDB	170.7	164.5			

YF-12 INLET NOISE SUPPRESSION
 17157 DEC 05, 1979 TEST 9226
 YF-12 INLET NOISE SUPPRESSION
 RUN 155
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN	148	149	150	151	152	153	154	155	156	157
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	89.8	91.1	92.6	91.2	91.8	91.8	93.8	96.7	98.8	109.8
63	92.8	92.5	94.5	91.9	93.4	95.2	95.2	98.1	99.8	110.5
80	98.5	99.0	99.1	97.7	99.3	100.9	100.0	103.8	104.1	111.8
100	99.0	97.6	98.3	97.3	98.4	99.6	99.4	102.7	103.9	112.0
125	99.7	97.6	100.3	98.1	98.7	99.4	101.0	101.9	102.8	113.0
160	100.5	98.1	99.6	97.8	98.8	100.2	100.1	100.5	103.0	113.8
200	99.4	98.8	101.3	99.4	99.9	101.5	99.7	101.9	104.4	112.4
250	97.6	97.1	99.7	97.6	99.0	98.5	99.5	100.7	103.1	112.5
315	95.3	95.6	97.5	97.4	97.3	97.6	97.2	99.5	101.6	110.6
400	95.7	96.2	100.0	96.9	96.1	96.5	95.8	98.1	100.7	109.6
500	97.4	98.4	99.6	97.5	96.4	96.4	96.0	97.3	99.7	107.9
630	99.2	98.9	101.0	98.0	97.4	96.9	95.7	97.1	100.1	106.5
800	99.4	100.2	99.9	97.9	97.0	96.8	95.3	97.5	99.7	105.2
1K	98.8	98.3	98.2	96.1	96.1	95.3	94.2	96.1	98.7	103.6
1.25K	97.6	97.3	97.6	95.9	96.0	95.7	94.7	95.9	100.1	102.5
1.6K	97.8	97.1	98.1	96.6	96.8	96.6	94.8	96.4	101.2	102.2
2K	98.1	97.6	98.4	95.9	96.3	95.8	93.7	94.5	97.6	99.8
2.5K	97.4	98.2	98.7	95.7	95.8	95.8	92.8	93.7	95.6	98.2
3.15K	96.6	97.6	97.8	95.7	94.8	94.1	92.3	92.8	93.6	96.5
4K	95.0	96.8	96.0	93.6	93.5	93.2	91.0	92.5	93.1	95.6
5K	92.5	93.6	93.1	91.0	90.4	89.9	89.3	90.5	92.5	94.8
6.3K	89.2	90.5	88.7	87.5	87.7	86.5	86.1	88.1	89.4	92.7
8K	88.5	90.3	89.9	88.1	87.4	87.3	87.0	88.8	89.6	94.1
10K	85.8	87.1	86.8	84.9	84.1	84.2	84.9	86.8	89.4	94.1
63	100.0	100.4	101.0	99.4	100.8	102.3	102.0	105.4	106.2	115.6
125	104.5	102.5	104.3	102.5	103.4	104.5	105.0	106.6	108.0	117.8
250	102.5	102.2	104.5	103.0	103.6	104.3	103.7	105.6	108.0	116.7
500	102.4	102.8	105.0	102.3	101.5	101.4	100.6	102.3	104.9	112.9
1K	103.4	103.6	103.6	101.6	101.1	100.7	99.8	101.3	104.3	108.7
2K	102.6	102.4	103.2	100.2	101.1	100.8	98.6	99.8	103.5	105.1
4K	99.8	101.1	100.8	98.6	98.1	97.5	95.8	96.8	97.8	100.5
8K	92.8	94.3	93.4	91.8	91.4	91.0	90.8	92.7	94.2	98.5
LP-8	111.0	110.8	112.0	110.0	110.2	110.7	110.2	112.1	114.1	122.4
SIL	102.0	102.4	102.6	100.4	100.1	99.7	98.1	99.3	101.9	109.8
800A	108.5	108.8	109.4	107.2	107.0	106.7	105.3	106.7	109.6	114.8
PNOB	122.2	122.7	123.2	121.2	120.9	120.9	119.5	120.8	123.2	128.6
*910P.0										

Subtract 2.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 16:09 NOV 08, 1979 TEST 915A
 YF-12 INLET NOISE SUPPRESSION
 RUN 155
 SPIKE FORWARD
 BYPASS DOORS 8PFN
 6600 RPM

RUN	134	135	136	137	138	139
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG
50	108.4	141.5	126.2	133.0	127.2	148.8
63	109.3	142.7	127.6	133.9	128.3	149.0
80	111.0	143.6	128.7	135.5	130.0	149.6
100	114.7	145.1	131.2	137.3	132.0	150.0
125	126.0	146.4	132.8	139.2	133.4	150.6
160	125.6	147.5	134.6	140.8	135.3	150.3
200	131.0	150.6	138.9	142.8	137.5	151.4
250	132.3	152.6	139.7	143.5	137.7	151.3
315	133.0	155.5	142.0	142.3	137.8	152.0
400	131.9	156.0	144.1	139.9	138.0	153.4
500	129.4	152.8	145.4	137.7	137.5	152.7
630	127.2	147.7	144.9	136.7	138.0	152.6
800	127.4	142.7	141.2	137.4	142.5	152.1
1K	127.7	140.5	136.7	138.6	139.0	151.1
1.25K	127.8	140.7	136.4	138.0	136.3	151.2
1.6K	127.3	137.8	136.9	137.5	137.7	150.1
2K	128.4	136.9	137.0	136.8	139.9	149.5
2.5K	129.0	136.8	137.1	136.5	138.8	148.9
3.15K	129.0	137.0	136.6	136.1	138.0	148.0
4K	128.1	137.0	136.0	135.5	136.9	147.3
5K	126.4	137.1	134.8	135.1	135.6	147.0
6.3K	124.9	137.5	133.9	134.1	134.5	146.6
8K	123.3	137.2	133.2	133.3	133.3	145.6
10K	122.0	136.0	132.6	132.9	132.3	144.8
<hr/>						
63	114.5	147.4	132.4	139.0	133.4	153.9
125	129.0	151.2	137.9	144.1	138.6	155.1
250	136.9	158.2	145.2	147.7	142.4	156.3
500	134.7	158.1	149.6	143.1	142.6	157.7
1K	132.4	146.2	143.5	142.8	144.7	156.2
2K	133.0	142.0	141.8	141.7	143.7	154.3
4K	132.7	141.8	140.6	140.3	141.7	152.2
8K	128.3	141.7	138.0	138.2	138.2	150.5
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LP-8	141.8	162.0	152.7	152.1	150.8	164.1
SIL	132.7	143.3	142.0	141.6	143.4	154.2
80BA	139.7	156.7	150.4	148.8	149.7	161.5
PND8	153.7	169.9	163.0	162.8	163.1	175.0

YE-12-INLET NOISE SUPPRESSION
 16109 NOV 08, '79 TEST 9156
 YF-12 INLET NOISE SUPPRESSION
 RUN 155
 SPIKE FORWARD
 BYPASS DOORS OPEN
 6600 RPM

RUN	140	141			
FREQ (HZ)	TR 7 K14 0. DEG	TR 8 K12 0. DEG			
50	121.9	118.9			
63	123.9	120.6			
80	124.6	122.0			
100	126.7	124.6			
125	127.4	126.2			
160	128.6	127.1			
200	130.5	129.9			
250	133.6	132.0			
315	136.2	134.2			
400	137.7	134.3			
500	144.1	134.4			
630	145.9	137.1			
800	143.3	139.9			
1K	140.7	135.1			
1.25K	140.0	134.9			
1.6K	142.4	134.4			
2K	142.7	136.8			
2.5K	143.6	137.4			
3.15K	146.3	139.0			
4K	147.4	141.0			
5K	146.1	139.8			
6.3K	145.5	139.1			
8K	144.9	138.6			
10K	143.8	138.0			
63	128.4	125.5			
125	132.4	130.9			
250	138.8	137.2			
500	148.5	140.2			
1K	146.4	142.1			
2K	147.7	141.1			
4K	151.4	144.8			
8K	149.5	143.4			
LP-8	156.1	149.9			
SIL	148.5	142.7			
80BA	156.0	149.7			
PND8	169.9	163.8			
STOP 0					

YF-12 INLET NOISE SUPPRESSION
10124 DEC 12, '79 TEST 9477
YF-12 INLET NOISE SUPPRESSION

RUN 158
SPIKE FORWARD
BYPASS DOORS CLOSED
5000 RPM

BL TAPED

RUN	102	103	107	108	109	110	111	112	113	114
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 70. DEG	TR 8 F8 90. DEG	TR 9 F9 110. DEG	TR 10 F10 135. DEG
50	81.6	82.8	88.9	83.2	82.7	82.7	86.3	88.5	90.7	93.9
63	81.9	81.0	87.1	80.6	82.9	85.5	85.5	88.6	90.7	92.1
80	88.0	85.7	92.1	85.8	86.9	87.8	87.2	88.9	90.2	93.1
100	88.9	86.2	92.2	87.3	87.3	87.4	87.8	88.7	89.5	93.5
125	94.2	92.6	99.1	93.0	93.3	93.3	92.7	92.2	91.7	95.1
160	91.1	91.5	97.0	92.8	92.2	92.8	91.8	91.6	90.4	98.0
200	91.9	94.1	100.0	94.2	92.5	94.3	91.0	91.5	90.6	98.3
250	91.6	91.0	98.6	91.4	91.9	90.1	90.3	88.9	90.8	99.0
315	89.7	89.6	95.2	90.8	89.5	90.2	88.6	88.2	89.9	96.8
400	90.4	91.1	98.0	91.3	90.1	90.3	88.6	88.4	89.6	97.1
500	94.5	95.7	99.8	93.7	92.5	91.8	91.0	90.3	92.6	97.4
630	94.9	95.3	100.8	94.2	93.7	93.8	93.0	92.3	93.4	97.7
800	95.7	96.1	100.3	94.5	93.5	93.6	91.9	91.2	92.4	96.3
1K	94.8	94.7	99.3	93.4	93.0	93.2	91.1	90.5	91.9	95.7
1.25K	93.6	93.4	97.3	92.2	92.5	92.3	90.6	89.1	89.9	93.5
1.6K	93.4	93.2	97.8	92.7	93.2	93.1	90.7	88.7	89.3	91.1
2K	95.8	95.6	99.7	93.3	93.7	93.7	91.1	89.0	89.1	90.7
2.5K	102.7	102.8	106.7	99.7	98.8	97.8	93.0	89.7	88.7	91.8
3.15K	100.1	101.9	105.6	100.2	99.1	98.3	94.9	90.3	87.5	90.9
4K	94.9	97.3	100.2	94.3	94.0	93.4	90.3	87.5	84.8	88.6
5K	93.6	95.0	98.0	92.4	91.3	90.4	87.7	84.7	84.2	88.6
6.3K	91.3	93.1	94.9	90.3	90.2	88.5	86.5	85.0	84.7	88.8
8K	90.9	92.7	96.1	90.9	90.1	89.7	88.6	88.5	89.0	97.3
10K	87.9	88.9	92.1	86.6	85.5	84.9	84.2	81.7	81.5	90.8
63	89.7	88.4	94.7	88.5	89.4	90.4	91.1	93.4	95.3	97.9
125	96.7	95.6	101.7	96.5	96.3	96.6	96.0	95.9	95.4	100.7
250	95.9	96.8	103.1	97.2	96.3	96.8	94.8	94.5	95.2	102.9
500	98.5	99.3	104.4	98.0	97.1	97.0	96.0	95.4	96.9	102.2
1K	99.5	99.6	103.9	98.2	97.8	97.8	96.0	95.1	96.3	100.1
2K	103.9	103.9	107.9	101.2	100.8	100.2	96.5	93.9	93.8	96.0
4K	102.0	103.8	107.2	101.7	100.8	100.1	96.8	92.8	90.5	94.3
8K	95.0	96.7	99.4	94.4	93.9	92.9	91.6	90.7	90.9	98.7
LP-8	108.4	109.0	113.3	107.3	106.7	106.4	104.3	103.3	103.8	108.9
SIL	101.8	102.5	106.3	100.4	99.4	99.4	96.4	94.0	93.6	96.8
80DBA	108.4	109.1	113.0	106.9	106.3	105.8	102.9	100.8	101.1	105.5
PND8	122.9	123.4	127.4	121.7	121.0	120.5	117.8	115.2	114.5	119.2
*STOP. 0										

Subtract 1.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 12122 DEC 07, 1979 TEST 935A
 YF-12 INLET NOISE SUPPRESSION
 RUN 15A
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 5000 RPM

RUN	72	73	74	75	76	77	78	79
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	106.8	142.2	126.2	133.3	128.1	133.1	117.7	122.4
63	107.1	143.2	127.9	134.1	128.3	135.2	119.5	122.3
80	109.2	144.5	129.6	135.9	130.1	136.4	120.4	122.5
100	111.4	145.4	131.7	137.9	132.4	135.1	121.6	123.1
125	120.0	146.7	132.7	139.2	133.0	139.0	122.6	124.0
160	122.0	148.0	134.1	140.3	134.7	139.5	123.6	124.9
200	126.9	151.1	139.0	142.3	136.4	139.6	125.1	126.2
250	126.3	152.8	139.4	142.9	137.3	138.3	126.2	126.6
315	125.3	155.7	142.0	142.0	137.7	136.2	128.3	126.3
400	123.5	156.3	144.0	139.9	138.0	135.3	130.6	126.2
500	122.1	153.1	145.1	137.8	137.1	135.0	135.3	126.1
630	118.9	148.2	144.2	136.8	137.2	135.4	137.7	127.3
800	119.5	143.5	141.0	137.2	141.5	135.4	135.5	129.1
1K	118.9	141.2	136.0	137.3	137.3	134.2	130.9	125.7
1.25K	118.6	141.1	134.5	136.4	134.4	134.2	130.4	124.2
1.6K	118.8	137.9	134.5	134.9	134.4	134.3	132.7	126.4
2K	120.9	137.0	135.5	134.7	137.1	135.5	133.2	129.3
2.5K	127.9	138.1	141.2	139.1	142.4	142.4	141.0	139.1
3.15K	129.1	140.2	142.5	141.7	143.7	144.4	143.1	140.5
4K	124.3	138.6	138.4	137.3	138.3	138.6	138.5	133.6
5K	122.2	137.7	136.1	135.9	136.7	138.1	138.2	133.6
6.3K	122.1	138.5	136.6	136.6	137.3	140.1	140.3	136.0
8K	120.6	138.3	135.6	135.8	136.0	138.4	138.8	135.6
10K	119.3	137.4	134.9	135.6	135.1	137.4	138.4	135.7
63	112.6	144.2	132.9	139.5	133.7	140.1	124.1	127.2
125	124.3	151.6	137.7	144.0	138.3	143.0	127.4	128.8
250	131.0	158.4	145.2	147.2	142.0	143.0	131.5	131.2
500	126.7	158.4	149.2	143.2	142.2	140.0	140.1	131.3
1K	123.8	146.9	142.9	141.8	143.5	139.4	137.7	131.6
2K	129.1	142.5	142.2	141.5	144.0	143.7	142.2	132.7
4K	131.0	143.8	144.6	143.8	145.4	146.2	145.4	142.0
8K	125.6	142.9	140.6	140.8	141.0	143.6	144.0	140.5
LP-8	136.7	162.3	153.1	152.4	151.3	151.9	149.8	146.2
SPL	128.0	144.4	143.5	142.4	144.3	143.1	141.7	137.8
ODBA	135.6	157.2	151.3	149.6	150.8	150.8	149.9	146.4
PNDB	150.7	170.5	168.6	165.1	163.6	166.2	164.2	160.9
STOP	0							

YF-12 INLET NOISE SUPPRESSION
 13141 APR 24, '80 TEST 10679
 YF-12 INLET NOISE SUPPRESSION
 RUN 159
 SPIKE FORWARD
 BYPASS DOWNS CLOSED
 5600 RPM

RUN	24	25	26	27	28	29	30	31	32	33
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	83.7	84.5	83.6	84.6	83.6	84.5	87.3	89.3	91.2	97.3
63	86.4	85.7	85.3	85.1	86.9	88.9	88.9	92.1	93.3	96.3
80	89.0	87.5	87.2	87.3	88.7	89.0	89.2	91.2	92.5	96.5
100	92.1	89.5	88.9	89.9	90.2	90.7	91.4	92.0	92.4	97.3
125	93.0	91.3	91.6	90.8	91.3	91.3	91.6	91.9	91.8	98.3
160	95.2	94.7	94.1	94.7	95.0	94.8	93.2	93.1	92.5	100.6
200	93.8	95.4	96.7	97.0	95.9	96.5	93.8	93.2	93.8	100.4
250	93.9	93.1	94.8	94.1	94.3	93.0	93.2	91.6	93.5	101.5
315	92.7	92.4	92.3	93.4	91.7	92.2	90.1	90.4	91.6	99.0
400	93.6	93.8	94.8	93.8	91.8	91.5	89.6	89.7	90.8	98.7
500	96.9	97.7	96.4	95.9	93.5	92.4	90.6	89.2	90.3	96.2
630	96.7	96.0	96.2	95.4	94.2	92.9	91.9	89.2	90.7	95.2
800	96.6	96.8	95.0	94.6	93.0	92.2	89.8	88.9	90.1	93.6
1K	96.5	95.8	94.0	93.6	92.3	91.3	89.0	87.8	90.1	92.7
1.25K	95.9	95.1	93.3	93.1	92.2	91.4	89.0	87.9	91.7	97.1
1.6K	95.2	94.1	93.1	93.2	92.4	91.7	88.1	85.8	87.7	90.8
2K	95.5	95.1	93.8	92.3	91.6	91.2	88.0	85.8	87.1	88.5
2.5K	98.5	98.5	97.0	95.7	94.0	93.0	88.9	85.7	85.7	88.4
3.15K	99.0	100.0	98.2	98.3	95.7	94.2	91.4	87.9	86.2	88.6
4K	96.3	97.8	95.6	94.8	93.9	92.5	89.7	87.4	84.7	88.3
5K	93.7	94.7	92.4	92.1	90.4	89.0	87.0	84.6	84.5	87.6
6.3K	90.5	92.3	88.7	89.1	88.2	86.2	84.3	84.1	84.1	87.6
8K	89.8	91.6	89.8	90.1	88.5	87.9	87.3	88.4	89.6	95.0
10K	87.1	88.2	86.3	86.8	85.4	84.6	85.6	85.2	86.5	95.9
63	91.7	90.8	90.4	90.6	91.7	92.7	93.3	95.8	97.2	101.5
125	98.4	97.2	96.8	97.1	97.5	97.4	96.9	97.2	97.0	103.7
250	98.3	98.6	99.7	99.9	99.1	99.1	97.4	96.7	97.9	105.2
500	100.7	100.9	100.6	99.9	98.1	97.0	95.6	94.2	95.4	101.7
1K	101.1	100.7	98.9	98.6	97.3	96.4	94.0	93.0	95.5	99.7
2K	101.5	101.1	99.7	98.8	97.5	96.8	93.1	90.6	91.7	94.2
4K	101.7	102.8	100.8	100.6	98.6	97.1	94.5	91.6	90.0	93.0
8K	94.1	95.8	93.3	93.7	92.3	91.2	90.6	91.1	92.1	98.8
LP-6	108.5	108.7	107.7	107.4	106.2	105.6	103.9	103.4	104.4	110.3
SIL	101.4	101.5	99.8	99.3	97.8	96.8	93.9	91.7	92.4	95.6
00BA	107.7	108.0	106.5	106.0	104.4	103.4	100.9	99.2	100.2	105.1
PADB	122.1	122.6	121.1	121.0	119.3	118.2	116.0	114.1	114.1	118.7

*STOP 0

YF-12 INLET NOISE SUPPRESSION
 11139 JUN 05 '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 159
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 5600 RPM

HUN	16	17	18	19	20	21	22	23
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K2 O. DEG	TR 3 K3 O. DEG	TR 4 K4 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	112.7	143.6	127.3	134.9	129.1	134.4	119.2	121.0
63	113.4	144.7	129.3	135.9	130.0	137.3	121.3	122.2
80	115.5	145.5	130.7	137.7	131.7	137.0	121.8	122.6
100	117.9	147.2	133.8	139.6	134.0	137.6	123.6	124.1
125	122.5	148.3	133.6	140.7	134.3	140.9	124.7	126.0
160	129.3	149.8	135.0	142.8	136.6	141.3	125.9	126.7
200	133.7	153.1	140.8	144.4	138.3	142.7	128.0	129.1
250	134.0	155.5	141.7	145.1	139.8	142.2	129.4	130.3
315	132.6	158.2	143.5	143.7	140.3	139.1	131.3	130.0
400	131.1	159.1	145.8	142.4	140.9	138.4	132.9	129.8
500	129.9	156.1	147.0	140.4	140.1	138.4	138.9	129.9
630	126.4	150.9	146.3	139.6	140.7	139.2	141.3	131.5
800	127.0	146.6	144.4	140.5	145.3	139.1	139.1	132.4
1K	126.7	144.6	139.4	140.6	140.4	137.8	135.0	130.5
1.25K	126.5	144.4	138.0	139.8	138.0	138.3	134.4	128.5
1.6K	126.1	141.3	138.3	138.6	138.3	138.4	136.6	130.4
2K	126.0	140.5	138.8	137.9	140.1	138.8	136.5	132.4
2.5K	128.6	140.1	140.2	138.5	141.4	140.6	140.3	135.6
3.15K	130.8	140.9	142.7	141.8	144.6	145.6	147.5	143.5
4K	129.8	141.0	142.1	141.8	143.3	144.3	143.9	139.1
5K	127.7	140.2	139.5	139.9	140.2	142.3	141.7	136.8
6.3K	126.5	140.3	138.2	138.6	139.1	142.2	143.1	138.9
8K	125.2	140.6	137.5	138.3	138.2	141.5	141.9	138.0
10K	123.9	140.4	136.8	137.6	137.0	140.0	141.5	137.9
63	118.8	149.4	134.1	141.1	135.2	141.2	125.7	126.8
125	130.4	153.3	138.9	146.0	139.9	148.0	129.6	130.5
250	138.2	160.8	146.9	149.2	144.3	146.4	134.6	134.6
500	134.3	161.3	151.2	145.7	145.3	143.8	143.6	135.3
1K	131.5	150.1	146.3	145.1	147.1	143.2	141.5	135.5
2K	131.8	145.5	144.0	143.1	144.9	144.1	143.0	138.1
4K	134.4	145.5	146.4	146.0	147.8	149.0	149.8	145.5
8K	130.1	145.2	142.3	142.9	142.9	146.1	147.0	143.1
LP-8	142.4	164.9	155.0	154.6	153.7	154.4	153.1	148.7
SIL	132.6	147.0	145.6	144.8	146.6	145.5	144.7	139.7
QUBA	139.9	159.9	153.3	151.9	153.0	153.1	153.3	148.8
PNOB	154.7	173.0	167.0	166.7	167.5	168.4	167.9	163.7
*STOP = 0								

YF-12 INLET NOISE SUPPRESSION
 16154 DEC 13, '79 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 160
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6000 RPM

RUN	123	124	125	126	127	128	129	130	131	132
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	82.5	82.4	89.0	83.9	83.7	84.4	86.4	85.5	90.3	97.8
63	86.5	85.8	92.2	85.2	87.6	89.8	88.9	92.2	93.8	98.2
80	89.2	87.7	94.2	87.7	89.1	89.8	90.3	91.8	93.6	98.2
100	92.7	90.2	96.0	90.9	90.8	91.3	91.6	93.6	94.6	98.9
125	92.1	90.3	97.1	90.6	91.2	91.5	92.9	93.7	93.8	100.5
160	95.1	94.8	100.3	95.0	95.4	95.4	94.2	94.0	96.5	102.9
200	93.9	95.3	102.9	96.1	95.8	95.9	94.1	94.5	95.4	101.7
250	95.4	95.1	102.4	95.8	96.4	95.1	95.5	93.7	95.4	102.5
315	94.3	94.0	99.5	94.6	93.2	93.9	91.8	92.8	93.5	100.3
400	94.5	95.1	101.9	94.7	93.1	92.9	91.5	91.5	93.0	99.5
500	96.2	97.4	101.7	95.7	93.9	93.3	91.9	90.8	92.1	97.2
630	96.0	95.8	101.7	95.0	93.7	93.0	91.5	90.7	93.1	96.3
800	96.3	96.7	100.5	94.6	93.3	92.9	91.4	91.0	92.8	95.8
1K	96.5	96.5	100.4	93.9	93.2	92.3	90.8	90.6	93.3	95.6
1.25K	95.7	95.8	99.6	93.8	93.6	93.1	91.3	91.4	97.8	99.4
1.6K	94.2	94.0	94.4	91.9	91.6	91.3	89.4	89.6	93.8	97.2
2K	94.8	95.4	100.1	92.4	91.3	90.8	88.6	87.5	89.8	92.8
2.5K	95.0	95.9	99.9	93.1	92.0	91.2	88.2	87.0	88.1	92.0
3.15K	95.4	96.9	100.5	94.8	93.0	91.5	89.6	88.4	88.1	90.7
4K	94.1	96.3	99.4	92.3	91.8	90.7	88.9	88.2	88.2	91.4
5K	91.8	93.8	96.4	90.2	88.8	87.8	86.5	85.6	87.4	91.5
6.3K	88.3	91.0	92.9	87.4	86.9	85.1	83.7	84.1	85.2	88.8
8K	88.0	90.8	94.5	89.1	88.1	87.7	87.2	86.2	90.1	93.1
10K	85.8	87.6	91.6	86.5	85.5	85.2	86.6	86.5	89.5	96.5
63	91.6	90.6	97.1	90.8	92.1	93.4	93.6	95.9	97.6	102.8
125	98.3	97.1	102.9	97.5	97.8	97.9	97.8	98.6	99.1	105.9
250	99.4	99.6	106.6	100.2	100.1	99.8	98.8	98.5	99.6	106.4
500	100.4	101.0	106.6	99.9	98.3	97.8	96.4	95.8	97.5	102.6
1K	100.9	101.1	105.0	98.9	98.2	97.6	95.9	95.8	100.1	102.1
2K	99.4	100.0	104.3	97.3	96.4	95.9	93.5	93.0	96.0	99.4
4K	98.8	100.6	103.9	97.6	96.3	95.0	93.1	92.4	92.7	96.0
8K	92.3	94.8	94.0	92.4	91.7	90.9	90.9	91.4	92.5	98.6
LP-8	107.6	108.2	113.1	106.8	106.2	105.8	104.7	104.9	106.7	111.9
SIL	99.7	100.6	104.4	97.9	97.0	96.2	94.2	93.2	96.2	99.2
BDRA	106.2	107.0	111.2	104.7	103.8	103.1	101.3	101.0	103.8	107.3
PNOB	120.0	121.1	125.3	119.2	118.0	117.2	115.7	115.2	116.7	120.8

*STDP: 0

Subtract 1.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 12129 DEC 07, '79 TEST 9358
 YF-12 INLET NOISE SUPPRESSION
 RUN 160
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 4000 RPM

RUN	83	84	85	86	87	88	89	90
FREQ (HZ)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	109.7	143.9	128.3	135.0	129.0	135.3	118.9	118.4
63	110.5	145.1	129.9	136.2	130.5	137.3	121.0	120.1
80	111.8	146.3	131.4	138.2	132.3	136.8	122.1	121.3
100	114.1	147.4	135.0	140.0	134.4	139.1	123.7	123.0
125	117.4	148.7	136.6	141.2	134.6	142.4	125.5	126.0
160	125.2	150.2	135.1	143.6	136.6	141.0	126.2	127.0
200	129.4	153.5	140.7	145.6	138.8	143.4	128.5	129.2
250	131.5	156.4	143.1	146.0	140.5	142.8	130.7	131.0
315	129.5	159.0	143.9	144.6	141.3	140.2	132.4	131.9
400	127.7	160.4	146.7	143.5	142.0	140.1	133.8	131.0
500	125.5	157.3	144.1	141.6	141.5	140.0	140.1	131.5
630	121.9	152.5	147.7	141.0	142.4	141.2	143.3	135.3
800	122.6	148.3	146.1	142.2	147.0	140.8	141.7	135.4
1K	123.0	146.3	141.0	142.2	142.0	139.6	142.3	131.6
1.25K	123.1	146.0	139.8	141.6	139.9	140.5	136.4	131.7
1.6K	120.3	143.0	140.0	140.1	139.7	140.0	139.2	134.3
2K	121.1	142.1	140.5	139.6	141.7	140.6	138.7	135.3
2.5K	121.5	141.8	141.0	139.6	142.3	141.6	141.7	139.4
3.15K	122.8	141.9	143.0	142.4	145.7	146.5	151.0	147.7
4K	122.6	142.2	143.2	144.5	146.4	148.5	150.0	146.0
5K	121.4	141.9	142.4	143.7	144.1	147.1	146.5	141.5
6.3K	120.9	141.7	140.7	141.4	141.8	145.5	145.9	141.1
8K	120.3	141.8	139.4	140.7	140.4	144.3	145.5	141.4
10K	119.4	142.0	138.7	140.1	139.1	142.9	144.3	140.2
63	115.5	150.0	134.8	141.6	135.6	141.3	125.7	124.9
125	126.1	153.7	139.7	146.6	140.1	145.8	130.0	130.4
250	135.0	161.6	147.5	150.2	145.1	147.1	125.6	125.6
500	130.4	162.6	152.3	146.9	146.7	145.2	145.3	137.8
1K	127.7	151.8	148.0	146.8	148.8	145.1	143.9	138.1
2K	125.8	147.1	145.3	144.6	146.2	145.5	144.8	141.7
4K	127.1	146.8	147.9	148.4	150.3	152.2	154.4	150.5
8K	125.0	146.6	144.4	145.5	148.4	149.1	149.0	145.7
LP-8	138.1	149.9	156.3	156.0	155.5	156.5	156.7	152.6
SIL	126.8	148.6	147.1	146.6	148.4	147.6	147.7	143.4
ODBA	134.6	161.1	164.7	153.7	155.0	155.7	157.1	153.1
PNOB	148.7	174.3	168.3	168.7	169.2	170.8	171.1	167.5
*STOP = 0								

YF-12 INLET NOISE SUPPRESSION
12125 DEC 13, '79 TEST 9477
YF-12 INLET NOISE SUPPRESSION

RUN 161
SPIKE FORWARD
BYPASS DOORS CLOSED
6200 RPM

BL TAPED

RUN	134	135	136	137	138	139	140	141	142	143
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	83.6	83.7	90.4	85.7	85.6	85.8	87.6	89.9	91.3	99.7
63	88.0	87.5	94.1	87.2	88.9	90.9	90.1	93.5	94.9	100.1
80	89.6	88.4	95.2	89.2	90.6	90.9	91.6	93.6	95.1	100.2
100	93.5	91.1	96.8	91.7	91.6	92.2	92.6	95.0	94.2	100.8
125	92.9	91.0	97.8	91.7	92.5	92.5	94.0	95.3	95.4	102.0
160	96.0	95.8	100.8	95.9	96.2	95.9	95.1	95.0	95.8	104.9
200	94.3	95.4	102.8	96.1	96.1	96.2	94.4	95.3	94.4	102.6
250	96.3	96.1	103.6	96.4	97.6	95.7	95.8	94.7	96.6	103.9
315	95.5	95.2	100.6	96.1	94.5	95.0	93.2	93.9	94.9	101.0
400	94.5	95.2	101.8	95.0	93.8	93.3	92.0	92.1	94.4	100.4
500	95.0	96.4	101.1	94.9	93.5	92.5	91.8	91.3	93.3	98.4
630	94.5	94.8	100.6	94.2	93.2	92.6	91.3	91.3	93.9	97.6
800	96.0	96.3	100.3	94.4	93.5	93.4	91.7	92.1	94.0	97.2
1K	96.3	96.4	100.5	94.3	93.7	93.0	91.5	91.5	94.6	96.7
1.25K	94.7	95.0	99.2	93.5	93.5	93.0	91.2	91.8	97.2	98.2
1.6K	93.7	93.6	94.8	92.6	92.6	92.3	91.2	92.1	97.3	100.9
2K	93.3	93.9	98.9	91.6	90.7	90.3	88.6	87.9	91.4	95.5
2.5K	91.4	92.6	96.4	90.2	89.6	89.2	87.2	87.0	89.3	93.6
3.15K	89.9	91.8	95.6	90.3	89.0	88.1	87.0	87.3	88.2	91.9
4K	89.1	91.4	94.6	88.1	87.9	87.7	86.2	87.2	89.0	91.9
5K	87.1	89.1	92.1	86.6	86.6	85.2	85.0	85.6	88.4	92.6
6.3K	83.6	86.4	88.7	84.0	84.0	82.8	82.2	83.2	85.5	89.3
8K	83.7	86.5	91.0	86.1	85.8	85.7	85.8	87.1	89.6	92.3
10K	82.2	84.1	88.9	84.5	83.7	83.9	85.8	85.9	89.8	95.5
63	92.5	91.7	98.4	92.4	93.6	94.5	94.8	97.4	98.9	104.8
125	99.1	98.1	103.6	98.3	98.7	98.7	98.8	99.9	100.6	107.7
250	100.2	100.4	107.3	101.0	101.0	100.4	99.4	99.4	100.8	107.2
500	99.5	100.3	106.0	99.5	98.3	97.6	96.5	96.4	98.7	103.7
1K	100.5	100.7	104.8	98.9	98.3	97.9	96.2	96.6	100.2	102.2
2K	97.7	98.2	103.0	96.4	95.9	95.6	94.1	94.4	94.8	102.6
4K	93.6	95.7	99.1	93.4	92.5	92.0	90.9	91.6	93.3	96.9
8K	88.0	90.6	94.4	89.7	89.4	89.0	89.7	90.5	93.4	97.8
LP-8	106.9	107.2	112.7	106.5	106.3	105.9	105.1	105.8	107.9	113.2
SIL	97.3	98.2	102.3	96.2	95.6	95.2	93.8	94.2	97.5	100.6
OD8A	104.5	105.1	109.8	103.4	103.0	102.5	101.2	101.5	104.8	108.4
PND8	117.2	118.2	122.8	114.9	114.2	115.8	114.8	115.3	118.4	122.6

*STOP 0 Subtract 6.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 11157 DEC 07, 1979 TEST 935A
 YF-12 INLET NOISE SUPPRESSION
 RUN 161
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6200 RPM

RUN	94	95	96	97	98	99	100	101
FREQ (HZ)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	110.1	144.0	128.6	135.6	129.3	136.1	121.4	118.3
63	110.6	145.2	130.3	136.9	130.5	137.2	121.5	120.5
80	111.8	146.2	131.5	138.7	131.9	137.2	122.6	121.6
100	114.5	147.6	135.6	140.8	134.6	140.0	124.6	123.5
125	117.7	148.8	135.3	141.8	134.7	143.4	125.9	126.2
160	126.0	150.4	135.2	144.1	136.8	141.4	127.1	127.8
200	129.4	153.5	140.5	146.1	139.1	144.2	128.6	129.6
250	132.1	157.0	143.2	146.2	140.7	143.3	121.5	131.7
315	130.4	159.5	143.9	145.1	141.8	140.7	133.4	133.2
400	128.0	160.8	144.8	144.0	142.6	140.9	134.4	132.0
500	124.2	157.7	148.3	142.3	142.3	141.0	140.8	132.7
630	121.1	153.0	148.2	141.8	143.2	142.4	143.4	135.4
800	122.6	148.9	146.9	142.9	144.1	142.2	142.5	137.0
1K	123.2	146.9	142.1	142.9	142.2	140.8	138.5	136.4
1.25K	122.7	146.5	140.9	142.4	141.0	141.7	137.4	137.3
1.6K	119.2	143.6	141.0	140.9	140.5	141.1	140.1	135.2
2K	120.0	142.7	141.4	140.4	142.4	141.5	140.4	136.5
2.5K	119.1	142.3	141.2	140.2	142.2	142.0	142.6	139.0
3.15K	118.9	142.1	141.5	141.1	143.6	144.3	148.3	141.5
4K	118.4	141.7	142.0	142.7	144.3	146.6	149.2	144.1
5K	118.0	141.6	141.3	142.6	142.9	146.4	146.3	141.3
6.3K	118.0	141.6	140.3	141.0	141.1	145.1	145.7	140.0
8K	117.6	141.5	139.2	140.1	139.6	143.4	145.4	140.1
10K	116.8	141.1	138.6	139.5	138.4	142.3	144.0	139.2
63	115.7	150.0	145.0	142.0	135.5	141.9	126.7	125.1
125	126.8	153.8	140.1	147.2	140.3	146.4	120.7	131.0
250	135.5	162.0	147.8	150.6	145.4	147.7	126.9	136.5
500	130.1	163.0	152.6	147.6	147.5	146.3	145.6	138.4
1K	127.6	152.3	148.9	147.5	149.8	146.4	144.8	141.7
2K	124.2	147.7	146.0	145.3	146.6	144.3	144.0	142.0
4K	123.2	146.6	146.4	147.0	148.4	150.7	153.1	147.2
8K	122.3	146.2	144.2	145.0	144.6	148.8	149.8	144.6
LP-8	138.0	166.3	156.5	156.2	155.4	156.4	156.2	151.0
SPL	125.0	148.9	147.1	146.6	148.3	147.8	148.0	143.4
ODBA	133.6	161.5	154.8	153.6	154.6	155.2	156.4	151.1
PNDB	144.8	174.5	167.7	168.1	168.3	170.1	170.5	165.5
STOP	0							

VF-12 INLET NOISE SUPPRESSION
 16141 DEC 13, 1979 TEST 9477
 VF-12 INLET NOISE SUPPRESSION
 RUN 162
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

RUN	145	146	147	148	149	150	151	152	153	154
FREQ (Hz)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	85.7	85.8	92.6	87.9	87.6	87.9	90.1	92.5	94.0	103.0
63	90.0	89.4	94.3	89.3	90.6	92.2	92.3	95.1	96.5	103.7
80	92.4	91.9	98.2	91.9	93.5	93.8	95.4	96.7	98.7	103.4
100	93.7	91.5	97.4	92.5	92.7	93.1	93.9	97.1	98.3	104.0
125	94.8	92.7	99.3	93.5	93.7	94.3	94.5	97.5	98.2	105.2
160	96.8	96.4	101.4	96.5	96.5	96.8	96.5	96.5	97.7	107.2
200	94.6	95.4	103.2	96.6	96.6	97.0	94.7	96.3	98.0	105.3
250	97.0	96.7	104.4	96.8	98.4	96.4	96.3	96.4	97.9	104.4
315	95.9	95.7	100.9	96.6	95.1	95.8	93.9	95.2	96.2	102.4
400	93.0	93.8	101.0	94.3	93.3	93.1	92.7	93.3	95.8	101.6
500	93.6	94.7	99.6	93.6	92.7	92.4	92.3	92.6	94.9	100.4
630	92.9	93.2	99.3	93.3	92.5	92.4	92.0	92.6	95.9	99.8
800	95.7	95.6	99.9	94.3	93.3	93.5	92.6	93.3	95.7	98.8
1K	95.8	95.8	100.4	94.6	94.0	93.8	93.5	93.7	96.1	97.6
1.25K	92.9	93.8	98.1	92.7	92.6	92.4	91.5	92.9	97.8	97.4
1.6K	92.7	92.9	98.0	92.6	91.7	92.5	91.7	93.9	100.0	100.2
2K	91.0	92.1	97.5	90.5	89.8	89.6	88.5	89.5	94.2	96.3
2.5K	88.6	90.4	95.2	88.8	88.5	88.7	87.3	88.9	91.5	93.7
3.15K	86.5	89.0	93.1	88.1	87.2	87.2	86.3	87.2	89.6	92.0
4K	86.2	88.1	92.1	86.2	86.2	87.5	85.0	86.8	87.9	91.6
5K	84.1	85.7	89.6	84.6	84.0	84.0	84.1	85.6	89.7	91.8
6.3K	81.0	83.5	86.5	82.2	82.6	81.7	81.3	83.1	84.1	89.0
8K	81.8	84.0	88.9	84.4	84.1	84.3	84.5	86.4	89.0	91.2
10K	80.9	82.1	87.2	82.9	82.3	82.9	84.7	85.4	89.5	93.8
63	95.0	94.5	101.0	94.8	95.9	96.7	97.9	99.9	101.5	108.1
125	100.1	98.8	104.5	99.3	99.4	99.8	100.6	101.8	102.9	110.4
250	100.7	100.7	107.8	101.5	101.7	101.2	99.9	100.8	102.2	108.9
500	97.9	98.7	104.8	98.5	97.6	97.4	97.1	97.6	100.3	105.4
1K	99.7	99.9	104.3	98.7	98.1	98.1	97.4	98.1	101.4	102.7
2K	95.8	96.7	101.8	95.7	95.0	95.4	94.3	96.2	101.4	102.2
4K	90.5	92.6	96.6	91.3	90.8	91.3	90.0	91.4	94.5	96.6
8K	86.0	88.0	92.5	88.0	87.9	87.9	88.6	89.9	93.2	96.6
LP-8	106.6	106.7	112.6	106.6	106.5	106.8	106.3	107.4	109.7	115.2
SIL	95.4	96.4	100.9	95.2	94.6	94.9	93.9	95.2	99.1	100.5
ODBA	103.2	103.8	108.8	103.0	102.4	102.5	101.7	102.8	106.5	109.0
PNDB	115.7	116.6	121.8	115.9	115.5	115.7	115.0	116.5	120.3	123.1

FORTRAN RUN-TIME ERROR IN 19BCDHEAD CALLED AT LOC X'06A741.
 END-OF-FILE ON UNIT 105

CER

Subtract 6.0 dB from all values of F3

YF-12 INLET NOISE SUPPRESSION
 12115 DEC 07, 1979 TEST 935A
 YF-12 INLET NOISE SUPPRESSION
 RUN 162
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6400 RPM

RUN	105	106	107	108	109	110	111	112
FREQ (HZ)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K10 0. DEG	TR 8 K12 0. DEG
50	107.5	144.3	128.9	135.4	129.3	136.2	120.2	118.9
63	109.1	145.5	130.1	136.9	130.3	137.8	121.7	120.5
80	110.1	146.8	131.6	139.0	132.5	136.9	123.2	122.0
100	113.6	148.1	135.6	140.7	134.3	140.6	124.7	123.5
125	117.2	148.9	135.6	142.1	135.0	143.4	126.8	126.5
160	125.6	150.4	135.6	144.5	137.0	142.0	128.0	128.5
200	128.9	153.6	140.4	146.7	139.6	144.8	129.3	130.1
250	131.9	157.1	144.3	148.5	141.1	144.0	132.0	131.3
315	130.7	159.7	144.0	145.6	142.1	141.1	134.1	133.5
400	126.9	161.0	147.0	144.4	142.8	141.6	135.1	132.7
500	122.5	158.1	148.8	142.7	142.8	141.3	141.9	133.2
630	118.7	153.3	148.6	142.3	143.9	142.7	143.7	135.6
800	122.3	149.3	147.7	143.6	148.7	142.7	142.7	138.8
1K	123.2	147.4	147.8	143.6	143.6	141.4	139.3	142.2
1.25K	121.5	147.1	141.6	143.1	141.7	142.5	138.3	138.3
1.6K	117.9	144.1	141.8	141.5	141.1	141.7	140.0	135.9
2K	118.5	143.1	141.9	141.0	142.8	142.0	140.7	136.4
2.5K	117.3	142.9	141.4	140.5	142.2	142.2	142.8	138.3
3.15K	116.6	142.5	141.1	140.7	142.2	142.8	146.4	139.9
4K	116.3	141.9	140.9	141.3	142.2	144.3	148.5	142.1
5K	116.1	141.5	140.4	141.4	141.4	144.7	145.5	140.2
6.3K	116.5	141.6	139.8	140.3	140.1	143.9	145.0	139.3
8K	116.2	141.7	139.1	139.6	138.8	142.3	144.7	139.0
10K	115.5	141.3	138.7	139.1	137.7	141.3	143.4	138.3
63	113.8	150.5	135.2	142.1	135.7	141.8	126.7	125.4
125	126.5	154.0	140.4	147.5	140.4	146.9	131.5	131.4
250	135.5	162.2	148.0	151.0	145.8	148.9	137.0	136.8
500	128.7	163.3	153.0	148.0	148.0	146.7	144.1	138.8
1K	127.2	152.8	149.6	148.2	150.5	147.0	145.3	144.9
2K	122.7	148.2	146.5	146.8	146.4	146.7	146.1	141.8
4K	121.1	146.7	145.6	145.9	146.7	148.8	151.7	145.4
8K	120.9	146.3	144.0	144.4	143.8	147.4	149.2	143.7
LP-8	137.5	166.5	164.7	156.4	155.4	156.1	155.5	150.8
SIL	123.6	149.2	147.2	146.6	148.0	147.5	147.7	144.1
80BA	132.7	161.8	155.0	153.7	154.5	154.5	155.6	150.7
PND8	145.9	174.8	167.5	167.7	167.5	169.0	169.8	164.6
STOP	0							

YF-12 INLET NOISE SUPPRESSION
 17115 DEC 13, 1979 TEST 9477
 YF-12 INLET NOISE SUPPRESSION
 RUN 163
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6600 RPM

RUN	156	157	158	159	160	161	162	163	164	165
FREQ (HZ)	TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG
50	89.6	89.9	96.8	92.1	91.8	92.1	93.7	91.4	98.0	109.4
63	92.1	91.9	98.5	92.0	93.0	94.5	94.8	92.4	99.3	110.8
80	98.7	98.7	107.6	98.2	99.0	100.6	100.2	98.7	104.3	111.1
100	98.7	97.3	107.4	97.4	98.0	99.2	99.3	97.4	103.6	111.3
125	98.7	96.2	107.7	97.4	97.3	98.1	100.6	96.3	102.4	112.3
160	100.5	98.8	104.2	98.9	99.4	100.4	100.1	95.1	107.8	113.1
200	99.0	98.7	105.9	99.4	99.8	101.2	99.5	96.6	104.2	111.6
250	98.8	98.5	105.4	98.9	100.3	99.1	99.8	95.8	102.7	111.5
315	96.1	96.4	101.6	97.8	96.7	97.5	97.0	94.0	101.1	109.6
400	92.7	93.9	100.9	94.6	94.0	94.8	94.9	92.3	100.2	108.4
500	91.8	92.9	98.5	93.2	93.3	93.8	94.8	91.3	99.3	107.0
630	91.8	92.1	98.7	93.4	93.5	94.4	94.5	91.4	99.7	105.4
800	95.9	95.7	100.1	95.2	94.5	95.3	94.6	92.4	99.3	104.1
1K	95.1	95.5	100.9	94.7	94.4	94.2	94.3	90.1	98.3	102.6
1.25K	91.0	92.5	97.8	92.6	92.8	93.4	93.0	89.6	99.6	101.5
1.6K	90.5	92.1	97.5	92.1	92.3	93.2	92.4	89.8	100.6	101.2
2K	88.5	90.7	96.2	89.9	89.6	90.1	89.9	86.7	96.4	98.5
2.5K	85.9	89.6	93.7	88.1	88.0	90.3	88.4	85.2	94.1	96.9
3.15K	84.2	87.2	92.0	87.4	86.6	84.9	87.3	83.6	92.1	95.1
4K	84.1	86.6	90.9	85.6	85.9	86.6	85.7	82.9	91.6	94.3
5K	82.2	84.7	88.3	83.8	83.4	82.6	83.9	81.4	90.9	93.4
6.3K	79.3	82.7	85.4	81.3	81.7	81.1	81.2	78.7	87.4	91.0
8K	80.8	83.5	87.8	83.0	82.8	83.1	83.0	80.3	87.9	92.8
10K	80.2	81.7	86.4	81.4	80.8	81.2	82.4	78.9	87.9	93.1
63	99.9	99.9	105.4	99.9	100.6	102.0	102.0	100.2	106.2	115.2
125	104.2	102.3	107.9	102.8	103.1	104.1	104.8	101.1	107.7	117.1
250	102.9	102.7	109.5	103.5	104.0	104.3	103.7	100.3	107.6	115.8
500	96.9	97.8	104.3	98.6	98.4	99.1	99.5	96.5	104.6	111.9
1K	99.2	99.5	104.4	99.1	98.7	99.2	98.8	95.7	103.9	107.6
2K	93.4	95.7	100.9	95.1	95.1	96.2	95.4	92.4	102.7	104.0
4K	88.4	91.1	95.4	90.4	90.3	90.7	90.6	87.5	94.3	99.1
8K	84.9	87.5	91.4	86.7	86.6	86.7	87.1	84.1	92.5	97.2
LP-8	108.6	108.2	114.1	108.5	108.8	109.4	109.4	106.5	113.7	121.7
SIL	93.7	95.4	100.2	94.9	94.7	95.4	94.9	91.9	101.0	103.6
DUBA	102.5	103.3	108.6	103.2	103.1	103.7	103.4	100.2	108.9	113.8
PNDB	115.2	116.6	121.7	116.2	116.3	117.2	116.7	113.7	122.5	127.5

*STOP 0

Subtract 6.0 dB from all values of F3

Add 5.0 dB to all values of F8

VF-12 INLET NOISE SUPPRESSION
 11145 DEC 07, 1979 TEST 935A
 VF-12 INLET NOISE SUPPRESSION
 RUN 163
 SPIKE FORWARD
 BYPASS DOORS CLOSED
 6600 RPM

RUN	116	117	118	119	120	121	122	123
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	107.5	144.5	128.8	135.4	129.2	136.6	120.5	118.1
63	109.8	145.7	130.7	137.3	130.9	137.9	122.1	120.5
80	110.1	146.7	131.9	139.2	132.7	137.2	123.2	122.2
100	114.1	147.8	136.4	140.9	134.6	141.3	124.8	124.1
125	116.9	148.9	135.9	142.3	135.2	143.6	127.0	126.4
160	125.6	150.7	135.5	144.9	137.4	142.0	128.5	128.9
200	127.8	153.3	139.5	146.7	139.6	144.9	129.4	130.1
250	131.7	157.5	144.6	146.7	141.2	144.5	132.4	132.1
315	129.7	159.8	143.8	145.8	142.2	141.5	134.7	133.8
400	124.1	160.8	147.0	144.6	143.0	142.1	135.2	133.0
500	118.8	158.3	149.1	143.1	142.8	142.1	141.9	133.5
630	115.3	153.6	149.0	142.7	144.5	143.5	144.0	137.2
800	122.2	149.7	148.5	144.0	149.1	143.7	143.1	140.2
1K	122.6	147.7	143.5	144.2	144.1	142.4	139.7	137.9
1.25K	119.4	147.4	142.1	143.6	142.3	143.3	138.4	136.7
1.6K	116.2	144.5	142.2	142.1	141.5	142.2	140.7	136.7
2K	116.4	143.5	142.3	141.4	143.1	142.4	141.5	136.7
2.5K	115.3	143.3	141.7	141.1	142.3	142.3	142.9	137.2
3.15K	114.4	143.0	141.1	141.0	141.8	142.5	145.7	139.1
4K	114.4	142.3	140.7	141.1	141.2	143.1	147.5	141.6
5K	114.9	141.8	140.1	141.0	140.5	143.7	145.2	139.7
6.3K	115.4	141.9	139.7	140.1	139.5	143.2	144.7	138.9
8K	115.2	141.9	139.3	139.5	138.4	141.4	144.2	138.5
10K	114.6	141.7	139.0	139.1	137.5	140.4	143.1	137.8
63	113.9	150.5	135.4	142.3	135.8	142.0	126.9	125.3
125	126.4	154.1	140.7	147.8	140.7	147.2	131.8	131.7
250	134.8	162.4	147.2	151.2	145.9	148.7	137.4	137.0
500	125.6	163.2	153.2	148.3	148.3	147.4	146.4	139.7
1K	126.4	153.2	150.4	148.7	151.0	147.9	145.7	143.3
2K	120.7	148.6	146.8	146.3	147.1	147.1	146.6	141.1
4K	119.4	147.2	145.4	145.8	146.0	147.9	151.0	145.0
8K	119.8	146.6	144.1	144.4	143.3	146.8	144.8	143.2
LP-8	136.6	166.6	147.0	156.6	155.6	156.2	155.3	150.1
SIL	122.2	149.6	147.5	146.9	148.0	147.7	147.7	143.1
QUBA	131.4	162.0	155.4	154.0	154.6	154.5	155.3	150.0
PND8	144.8	174.9	147.6	167.8	167.3	168.7	169.3	164.1
STOP								

YF-12 INLET NOISE SUPPRESSION
13:55 APR 28, '60 TEST 10679
YF-12 INLET NOISE SUPPRESSION
RUN 175
SPIKE AFT
BYPASS DOORS OPEN
5600 RPM

FRQ	35	36	37	38	39	40	41	42	43	44
TR 1 F1 0. DEG	TR 2 F2 10. DEG	TR 3 F3 20. DEG	TR 4 F4 30. DEG	TR 5 F5 40. DEG	TR 6 F6 50. DEG	TR 7 F7 60. DEG	TR 8 F8 70. DEG	TR 9 F9 80. DEG	TR 10 F10 90. DEG	TR 11 F11 100. DEG
50	82.3	83.4	82.7	83.6	82.7	83.5	82.6	88.1	90.6	96.5
63	84.9	84.6	84.2	84.1	85.8	88.3	88.7	91.0	92.8	95.7
80	84.4	84.4	84.0	84.6	86.6	87.7	87.1	90.1	92.0	96.5
100	88.2	85.8	84.8	86.4	87.4	88.5	87.0	90.8	91.8	97.2
125	88.7	86.9	86.8	86.8	87.4	87.5	87.6	90.7	90.6	97.9
160	88.6	88.1	86.6	87.9	87.3	88.6	90.0	90.0	89.4	99.8
200	89.7	90.5	91.0	90.5	89.8	90.6	88.4	90.2	91.1	100.1
250	94.5	93.1	94.2	92.6	92.6	91.1	90.8	90.2	92.0	101.3
315	94.7	93.9	92.9	93.7	92.3	92.4	87.4	90.4	91.6	98.8
400	96.1	95.7	96.6	95.6	93.7	92.5	94.3	89.9	91.0	98.8
500	96.9	97.9	96.5	96.5	94.8	93.5	92.1	90.5	91.0	96.3
630	99.2	98.2	97.8	97.1	96.0	94.4	94.6	90.9	92.1	94.9
800	98.4	98.4	96.4	95.9	94.4	93.6	94.7	90.6	91.0	93.8
1K	96.6	97.0	94.8	94.5	94.2	93.2	94.6	90.5	90.9	92.9
1.25K	95.1	95.9	93.8	93.8	93.6	93.8	90.5	91.0	92.3	96.9
1.6K	96.2	95.9	94.3	93.9	93.1	93.0	91.5	90.2	90.4	91.9
2K	97.2	96.8	95.4	94.8	94.2	93.1	90.4	90.3	90.8	90.2
2.5K	99.7	99.5	98.3	97.1	96.9	94.9	90.8	90.2	89.3	90.2
3.15K	98.6	99.6	97.8	97.6	95.6	94.2	91.1	90.2	88.9	89.7
4K	95.6	97.6	94.5	94.0	93.2	92.4	89.3	89.8	87.8	89.1
5K	92.9	94.6	91.7	91.5	90.2	89.1	87.3	87.5	87.2	88.4
6.3K	89.9	92.0	87.6	88.3	88.1	86.0	84.5	85.8	86.1	88.1
8K	89.4	91.5	88.7	89.0	88.0	87.1	86.9	88.5	89.5	94.1
10K	87.0	88.2	85.5	85.6	84.4	83.4	84.3	85.1	86.7	94.8
63	88.8	88.9	88.4	88.9	90.1	91.7	92.7	94.7	96.7	101.0
125	93.3	91.8	91.0	91.9	92.1	93.0	94.3	95.3	95.5	103.2
250	98.2	97.5	97.7	97.2	96.5	96.2	94.7	95.0	94.3	104.9
500	102.4	102.1	101.8	101.2	99.7	98.3	97.0	95.2	96.1	101.7
1K	101.7	102.0	99.9	99.6	98.8	98.3	95.7	95.5	96.2	99.7
2K	102.7	102.5	101.1	100.2	99.3	98.5	95.4	95.0	95.0	95.6
4K	101.1	102.5	100.2	99.9	98.4	97.2	94.3	94.1	92.8	93.9
8K	93.7	95.6	92.2	92.4	91.9	90.8	90.2	91.5	92.5	97.9
LP-N	108.8	109.0	107.6	107.2	106.1	105.4	103.7	103.7	104.4	110.1
51L	101.8	102.3	100.4	99.9	98.8	98.0	95.1	94.9	94.7	96.4
00BA	108.3	108.7	108.9	106.5	105.3	104.4	101.9	101.5	101.7	105.2
PNDB	121.9	122.5	120.8	120.6	119.3	118.3	116.0	115.8	115.6	118.8

YF-12 INLET NOISE SUPPRESSION
 11151 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 175
 SPIKE AFT
 BYPASS DOORS OPEN
 5600 RPM

RUN	27	28	29	30	31	32	33	34
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	118.3	132.7	119.2	124.2	129.6	144.7	123.2	122.7
63	120.3	134.3	121.1	125.9	132.0	145.3	124.7	123.5
80	121.4	135.5	122.0	127.4	132.1	146.3	125.9	123.8
100	122.3	136.5	123.3	129.4	132.9	147.3	127.8	125.0
125	125.8	137.6	123.6	131.1	135.0	148.2	128.7	126.6
160	125.6	138.4	124.5	134.2	135.8	148.5	129.7	128.0
200	130.1	140.1	127.5	137.9	137.2	149.7	130.9	130.4
250	132.6	142.3	130.4	140.0	138.5	150.5	133.8	133.0
315	133.8	146.0	133.5	139.3	139.9	151.5	136.1	133.4
400	133.2	147.4	138.5	139.2	141.2	153.0	138.4	134.1
500	128.9	144.6	142.7	137.9	142.2	152.6	143.4	133.8
630	127.1	139.6	143.1	136.1	144.1	151.6	145.7	135.7
800	126.4	133.3	139.1	135.9	147.7	151.3	143.0	135.4
1K	126.7	131.6	134.7	138.0	143.1	150.3	139.4	132.7
1.25K	126.3	133.6	135.6	138.8	142.8	149.6	139.0	132.1
1.6K	125.7	130.2	137.4	137.7	143.4	148.6	140.4	133.4
2K	126.9	129.5	136.7	136.8	145.3	147.4	140.4	135.2
2.5K	129.1	131.1	139.3	138.2	147.0	147.3	144.2	137.8
3.15K	129.1	132.1	139.3	137.8	147.3	147.3	149.0	143.1
4K	127.6	130.9	137.2	137.0	145.8	146.9	147.2	141.5
5K	126.4	129.8	135.7	135.8	143.8	146.6	145.9	139.8
6.3K	125.3	129.6	134.8	135.1	142.3	146.2	145.9	140.2
8K	124.3	128.9	133.6	134.2	141.0	145.1	145.2	139.9
10K	123.6	127.5	132.4	133.6	139.7	144.2	144.7	139.6
63	125.0	139.1	125.7	130.8	136.2	150.2	129.5	128.1
125	129.6	142.3	128.6	136.8	139.4	152.8	133.6	131.4
250	137.2	148.3	135.9	143.9	143.5	155.4	138.9	137.2
500	135.3	143.7	146.7	142.7	147.5	157.2	148.2	139.4
1K	131.3	137.7	141.7	142.5	149.9	155.2	148.6	138.8
2K	132.2	135.1	142.7	142.4	150.3	152.6	146.9	140.6
4K	132.6	135.8	142.4	141.7	150.5	151.7	152.3	146.4
8K	129.2	133.5	138.5	139.1	145.9	150.0	150.1	144.7
LP-8	141.9	153.0	150.4	150.3	156.5	162.9	156.4	150.3
SIL	132.0	136.2	142.3	142.2	150.2	153.2	148.3	141.8
ODBA	139.4	148.3	149.6	148.9	154.4	160.5	156.4	150.2
PNOB	153.9	161.6	162.9	162.8	170.2	174.0	170.6	164.7

STOP 0

YF-12 INLET NOISE SUPPRESSION
08158 APR 30, '80 TEST 10714
YF-12 INLET NOISE SUPPRESSION
RUN 185
SPIKE AFT
BYPASS DOORS CLOSED
5000 RPM

FREQ (MHz)	113 TR 1 F1 0. DEG	114 TR 2 F2 10. DEG	115 TR 3 F3 20. DEG	116 TR 4 F4 30. DEG	117 TR 5 F5 40. DEG	118 TR 6 F6 50. DEG	119 TR 7 F7 70. DEG	120 TR 8 F8 90. DEG	121 TR 9 F9 110. DEG	122 TR10 F10 135. DEG
60	80.8	82.9	82.7	82.7	81.7	81.8	88.9	88.1	90.7	93.9
63	81.2	80.6	80.1	79.6	82.9	85.7	85.7	87.4	91.1	92.3
80	81.7	80.9	81.0	81.4	84.0	85.9	85.8	87.8	89.6	93.3
100	84.7	82.1	81.7	82.9	83.3	83.8	83.9	86.5	88.1	93.3
125	86.0	83.8	84.8	85.0	86.4	86.4	87.3	88.7	88.2	94.5
160	86.7	86.4	84.8	86.5	85.7	86.3	87.7	88.1	86.6	97.8
200	88.0	87.0	90.2	89.3	88.5	88.8	87.4	88.4	87.6	98.3
250	91.4	90.0	91.6	90.4	90.9	88.8	88.7	88.0	89.2	99.0
315	90.8	89.8	89.9	90.5	88.9	89.1	87.7	87.6	89.3	97.0
400	92.2	91.9	93.1	92.0	90.0	89.8	87.2	87.5	89.0	97.3
500	94.8	94.9	94.0	93.4	91.8	91.4	90.2	89.9	91.6	97.7
630	95.8	94.8	94.8	93.8	93.0	93.4	92.1	92.0	93.0	98.1
800	96.0	96.1	94.6	94.5	93.1	93.4	91.5	90.8	91.9	96.9
1K	94.3	94.0	92.7	93.1	93.0	93.2	90.9	90.3	91.8	96.0
1.25K	94.3	93.9	92.3	92.7	92.4	92.3	90.7	89.9	90.7	94.2
1.6K	96.1	96.3	95.8	95.8	95.2	94.6	91.2	89.3	90.5	91.9
2K	98.5	98.7	97.5	96.8	96.4	95.1	91.9	89.3	89.8	90.9
2.5K	103.0	102.0	100.1	98.4	97.7	96.4	91.9	89.2	88.6	91.3
3.15K	100.3	100.3	98.5	98.2	96.9	95.6	92.0	88.2	86.4	90.8
4K	96.0	97.2	94.4	93.8	93.6	92.8	89.0	86.4	84.4	88.9
5K	94.0	94.9	92.3	91.9	90.6	89.7	86.3	83.5	83.6	88.5
6.3K	91.7	93.2	89.1	89.5	89.2	87.4	85.0	83.8	84.1	89.0
8K	91.8	93.1	90.5	90.4	89.2	88.6	88.1	88.7	88.3	97.8
10K	89.3	89.9	87.3	86.6	84.9	83.8	82.3	80.2	80.5	90.8

63	86.0	86.4	86.2	86.2	87.7	89.4	90.6	93.3	95.2	98.0
125	90.6	89.2	88.8	89.8	89.7	90.4	91.4	92.7	92.5	100.4
250	95.1	94.4	95.4	94.9	94.3	93.6	92.7	92.8	93.5	102.9
500	99.3	98.8	98.8	97.9	96.5	96.5	95.0	94.9	96.3	102.5
1K	99.7	99.5	98.1	98.3	97.6	97.8	95.8	95.1	96.3	100.6
2K	104.9	104.4	102.9	102.0	101.3	100.3	96.5	94.1	94.5	96.2
4K	102.4	102.8	100.6	100.3	99.2	98.1	94.5	91.2	89.8	94.3
8K	95.8	97.1	93.9	93.9	93.0	91.8	90.5	90.4	90.2	99.0

LP=8	108.7	108.6	107.2	106.6	105.8	105.2	103.0	102.4	103.2	109.1
81L	102.4	102.3	100.6	100.2	99.4	98.7	95.6	93.5	93.5	97.0
80BA	109.1	108.9	107.3	106.7	105.9	105.1	102.1	100.4	101.0	105.8

YF-12 INLET NOISE SUPPRESSION
 11158 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 185
 SPIKE AFT
 BYPASS DOORS CLOSED
 5000 RPM

RUN	38	39	40	41	42	43	44	45
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	120.1	135.3	124.5	130.3	126.0	124.1	119.8	125.0
63	122.5	136.5	126.9	131.7	127.4	126.3	121.2	125.8
80	123.9	138.4	127.7	133.4	127.9	127.3	122.6	125.8
100	125.3	139.6	129.3	134.8	128.8	128.8	124.4	126.1
125	127.5	141.2	130.8	136.9	130.1	131.0	126.3	126.9
160	131.0	142.5	131.5	138.5	131.5	132.1	128.3	128.4
200	132.8	144.7	132.9	140.9	132.9	132.7	130.0	130.3
250	133.6	147.8	135.1	142.9	134.9	132.9	131.4	131.4
315	132.6	150.8	136.1	141.9	134.0	131.9	133.0	131.0
400	131.1	151.9	138.8	141.2	134.6	131.6	135.0	130.5
500	128.2	149.0	141.0	140.5	135.1	130.9	139.0	129.8
630	125.2	144.2	143.1	140.8	136.6	129.9	141.4	130.7
800	125.3	139.1	141.1	142.0	140.1	129.8	138.6	131.8
1K	125.5	137.2	138.7	144.0	136.2	129.0	133.7	128.6
1.25K	126.1	137.7	140.4	144.6	134.5	129.0	133.5	127.6
1.6K	128.6	135.5	142.8	143.7	137.6	129.8	135.7	130.0
2K	129.8	134.9	143.0	143.8	140.1	130.3	137.2	132.7
2.5K	133.5	134.9	147.0	143.7	145.6	134.6	145.3	140.8
3.15K	133.1	135.5	147.4	144.2	146.0	134.3	147.5	142.6
4K	130.4	134.1	145.2	143.5	140.9	130.9	142.0	136.4
5K	129.3	139.5	143.4	142.7	139.4	130.6	141.0	135.6
6.3K	128.8	133.7	142.7	142.1	139.7	131.8	142.3	137.7
8K	127.9	133.3	142.1	142.2	138.7	130.7	141.4	136.9
10K	127.2	132.4	141.1	142.0	137.9	129.8	141.1	137.1
63	127.2	141.7	131.3	136.7	131.9	130.9	126.1	130.1
125	133.4	146.1	135.4	141.8	135.0	135.6	131.4	132.0
250	137.8	153.1	139.7	146.8	138.8	137.3	136.4	135.7
500	133.6	154.2	146.1	145.4	140.3	135.6	144.1	135.1
1K	130.4	142.9	144.9	148.4	142.4	134.1	140.7	134.8
2K	135.9	139.9	149.5	148.5	147.2	134.9	146.3	141.8
4K	136.0	139.2	150.4	148.3	147.8	138.2	149.3	144.2
8K	132.8	138.0	146.8	146.9	143.6	135.8	146.4	142.0
LP-8	143.4	157.5	155.2	155.6	152.5	145.0	153.3	148.4
SIL	134.1	140.7	148.3	148.4	145.8	136.4	145.4	140.1
ODBA	141.7	152.8	155.4	154.9	152.7	143.6	153.5	148.5
PNDB	156.6	166.0	169.5	168.7	167.1	159.0	168.0	163.3
*STOP 0								

YF-12 INLET NOISE SUPPRESSION
 12107 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 187
 SPIKE FORWARD
 BYPASS DOORS OPEN
 IDLE

RUN	49	50	51	52	53	54	55	56
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	103.6	132.8	119.9	125.3	121.1	130.7	118.7	125.2
63	102.6	133.6	121.6	125.7	122.3	131.2	120.2	125.2
80	102.3	134.4	123.1	125.9	123.0	132.2	120.8	124.9
100	104.5	134.4	124.4	126.4	123.8	133.2	121.6	124.7
125	108.3	134.3	124.6	127.1	124.2	134.6	122.3	124.7
160	109.6	133.7	124.8	128.0	124.4	125.5	122.7	125.6
200	113.2	134.0	125.6	129.8	124.9	136.2	123.5	126.5
250	119.4	134.8	126.4	132.1	125.7	135.2	125.2	127.3
315	120.4	137.1	127.2	130.4	124.7	133.6	127.1	127.2
400	119.5	137.8	128.9	126.4	123.6	132.2	129.1	126.6
500	114.8	134.0	129.1	122.6	122.5	130.9	130.2	125.7
630	112.4	129.1	127.9	121.1	122.3	129.4	131.9	125.9
800	114.3	123.9	124.0	122.6	126.9	128.2	131.2	128.8
1K	117.4	122.1	121.6	126.7	125.1	126.8	128.3	126.1
1.25K	120.2	124.9	122.9	126.3	122.9	126.3	130.3	127.3
1.6K	120.6	124.5	125.3	127.0	126.4	125.4	129.8	129.3
2K	132.6	134.9	135.3	138.1	137.0	136.0	134.8	144.7
2.5K	126.5	129.1	131.1	131.7	133.6	129.1	135.2	137.2
3.15K	125.0	128.1	129.8	129.9	130.2	125.1	134.4	134.4
4K	128.1	130.6	131.7	132.4	132.7	125.8	135.8	135.8
5K	128.1	131.1	132.2	132.6	132.8	126.4	136.9	135.7
6.3K	129.5	132.9	133.8	134.6	134.5	128.8	137.8	139.1
8K	128.1	132.3	132.9	133.9	133.4	127.9	138.0	139.4
10K	124.8	128.9	129.7	131.0	130.0	124.8	135.9	136.7
63	107.7	138.4	126.5	130.4	127.0	136.2	124.8	129.9
125	112.7	138.9	129.4	132.0	128.9	139.3	127.0	129.8
250	123.4	140.3	131.2	135.6	129.9	139.9	130.3	131.8
500	121.4	139.7	133.4	128.8	127.6	135.8	135.3	130.8
1K	122.7	128.6	127.7	130.3	130.0	132.0	134.9	132.3
2K	133.8	136.2	137.0	139.2	138.9	137.1	138.6	145.5
4K	132.1	134.9	136.1	136.6	136.8	130.6	140.6	140.1
8K	132.7	136.4	137.2	138.2	137.8	132.1	142.1	143.3
LP-8	138.1	146.7	143.0	144.4	143.5	145.5	146.4	148.7
SIL	129.5	133.2	133.6	135.4	135.3	133.2	138.0	139.3
00BA	138.4	142.9	142.5	143.8	143.5	141.6	146.2	149.0
PNOB	161.4	157.5	156.2	157.9	157.0	156.8	159.6	162.4
*STOP 0								

YF-12 INLET NOISE SUPPRESSION
 12114 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 188
 SPIKE FORWARD
 BYPASS DOORS OPEN
 4200 RPM

RUN	60	61	62	63	64	65	66	67
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K14 0. DEG	TR 8 K12 0. DEG
50	102.8	134.7	120.7	126.7	122.0	132.5	119.3	128.0
63	103.3	135.6	122.0	127.1	122.6	133.3	120.8	127.9
80	104.5	136.1	123.9	127.9	124.1	134.5	121.2	128.1
100	107.3	136.8	125.4	128.4	124.7	135.0	122.5	127.9
125	111.4	137.0	126.5	129.4	125.9	136.1	123.7	127.9
160	112.8	137.1	126.5	130.3	126.3	137.1	124.4	128.5
200	116.3	137.6	127.7	132.4	127.4	138.5	125.5	129.7
250	121.7	138.5	128.7	134.6	128.0	138.6	127.1	130.5
315	122.7	140.8	129.9	132.8	127.1	137.1	129.2	130.3
400	122.5	141.5	132.1	129.3	126.4	136.1	131.7	129.9
500	118.0	137.7	132.4	125.6	125.4	134.7	133.6	128.9
630	115.2	132.7	131.1	123.9	125.0	133.4	135.2	129.1
800	115.5	127.2	126.5	124.7	125.4	132.1	133.2	131.0
1K	116.8	124.9	122.6	127.2	127.4	130.4	128.6	128.1
1.25K	119.0	126.4	123.4	126.4	123.4	129.2	129.8	127.4
1.6K	120.8	125.5	126.3	127.3	127.3	128.1	131.2	129.6
2K	127.7	129.5	131.9	133.3	136.1	129.1	134.3	135.8
2.5K	133.2	135.3	138.5	139.7	141.6	134.0	146.1	142.5
3.15K	125.9	129.3	131.1	131.0	131.7	127.5	136.9	135.8
4K	126.6	129.5	130.9	130.9	131.9	126.1	136.0	135.3
5K	128.8	131.9	133.1	133.5	133.8	127.9	140.0	138.0
6.3K	128.1	131.5	132.4	133.0	133.0	127.7	138.3	138.5
8K	128.4	132.6	133.1	134.0	133.6	128.2	139.6	141.6
10K	126.2	130.6	131.4	132.7	131.8	127.1	139.3	140.8
63	108.4	140.3	127.2	132.0	127.8	138.2	125.1	132.8
125	115.8	141.7	130.9	134.2	130.4	141.0	128.4	132.9
250	125.8	144.0	133.7	138.1	132.3	142.9	132.3	134.9
500	124.4	143.4	136.7	131.6	130.4	139.6	138.5	134.1
1K	122.1	131.1	129.3	131.0	132.1	135.5	135.7	133.9
2K	134.5	136.7	139.5	140.8	142.8	136.0	146.6	143.5
4K	132.1	135.2	136.6	136.8	137.3	132.0	142.8	141.3
8K	132.4	136.4	137.1	138.0	137.6	132.5	143.9	145.3
LP-8	138.5	149.3	144.5	145.6	145.6	147.7	150.1	149.1
SIL	129.5	134.3	135.1	136.2	137.4	134.5	141.7	139.6
OUBA	135.7	144.5	144.0	144.7	145.9	142.8	150.4	148.8
PHOB	152.9	159.4	159.0	160.0	160.6	158.0	164.9	163.0
STOP 0								

YF-12 INLET NOISE SUPPRESSION
 12125 JUN 05 '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 199
 SPIKE MIDWAY
 BYPASS DOORS OPEN
 4200 RPM

RUN	71	72	74	75	76	77	78	79
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	114.0	127.5	113.7	122.2	116.6	131.4	119.4	127.6
63	114.8	128.4	115.0	123.1	117.7	132.3	120.7	127.6
80	114.7	130.0	116.6	123.4	118.9	133.5	121.9	126.9
100	115.8	130.8	118.0	124.6	120.6	134.5	123.3	126.6
125	117.5	131.9	118.9	126.1	122.4	135.6	124.1	126.9
160	119.1	132.6	119.4	128.0	123.8	136.6	125.0	127.2
200	121.5	133.7	120.4	131.3	125.8	137.8	125.7	128.5
250	126.3	135.8	123.1	134.4	126.7	138.0	128.1	129.7
315	126.1	138.7	124.8	133.0	125.4	136.8	129.8	129.1
400	124.5	139.8	128.3	130.2	125.9	135.7	132.2	128.7
500	120.5	137.0	129.8	127.1	125.8	133.7	134.3	127.9
630	117.8	132.1	129.8	125.7	125.6	132.2	136.0	128.2
800	116.9	126.2	124.8	125.1	130.1	130.8	134.1	130.1
1K	118.5	123.9	119.3	128.5	127.5	129.2	129.5	127.1
1.25K	120.3	126.0	121.6	128.2	123.8	128.3	130.3	126.0
1.6K	122.4	126.0	125.8	127.9	129.1	127.5	131.9	128.2
2K	128.2	129.2	130.3	133.5	136.4	128.5	136.2	134.1
2.5K	135.6	137.4	137.8	140.8	141.5	134.5	147.1	141.2
3.15K	127.5	129.0	130.4	131.8	133.1	127.9	137.9	135.3
4K	127.3	128.7	129.6	131.4	132.7	125.7	136.2	133.9
5K	129.4	131.0	131.8	133.8	134.4	127.7	139.2	136.9
6.3K	127.9	130.2	130.9	132.9	133.2	127.4	138.3	136.2
8K	128.1	131.0	131.5	133.8	133.9	127.7	139.5	138.9
10K	126.4	129.0	130.1	132.6	132.3	126.4	139.3	139.1
63	119.3	133.5	120.0	127.7	122.6	137.2	125.5	132.2
125	122.4	136.6	123.6	131.3	127.2	140.4	129.0	131.7
250	129.9	141.3	127.9	137.9	130.8	142.3	133.0	133.9
500	126.6	142.1	134.1	132.9	130.5	138.9	139.2	133.0
1K	123.6	130.2	127.2	132.3	132.6	134.3	136.6	132.8
2K	136.5	138.3	138.7	141.8	142.8	136.1	147.5	142.1
4K	132.9	134.4	135.5	137.2	138.2	132.0	142.7	140.3
8K	132.3	134.9	135.7	137.9	137.9	132.0	143.8	143.0
LP#8	140.0	147.0	142.7	145.8	145.7	147.1	150.6	147.5
SIL	131.0	134.3	133.8	137.1	137.9	134.1	142.3	138.4
ODBA	140.1	144.0	142.8	145.4	146.1	142.4	151.0	147.2
PNDB	154.9	159.1	157.4	160.5	160.6	157.9	165.6	161.6
STOP 0								

YF-12 INLET NOISE SUPPRESSION
 12135 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 201
 SPIKE MIDWAYD
 BYPASS DOORS OPEN
 5000 RPM

RUN	83	84	85	86	87	88	89	90
FREQ (Hz)	TR 1 K1 0. DEG	TR 2 K6 0. DEG	TR 3 K3 0. DEG	TR 4 K8 0. DEG	TR 5 K5 0. DEG	TR 6 K10 0. DEG	TR 7 K10 0. DEG	TR 8 K12 0. DEG
50	116.2	129.6	115.0	124.0	118.2	133.6	120.0	128.9
63	118.0	131.1	116.5	124.7	119.6	135.0	121.5	129.2
80	117.9	132.3	117.9	125.7	121.0	135.8	123.2	129.1
100	118.5	133.7	119.5	127.0	123.0	136.5	124.5	129.1
125	122.8	134.7	121.6	129.4	125.7	137.7	125.4	129.4
160	123.5	135.9	122.3	131.1	126.5	138.2	126.6	130.0
200	125.9	137.6	124.0	134.3	129.5	139.4	128.4	131.1
250	129.5	140.0	126.5	137.6	130.5	140.5	131.0	133.3
315	130.6	143.2	128.9	136.7	129.8	140.3	133.1	132.8
400	129.2	144.6	132.4	134.1	130.0	139.9	135.3	132.8
500	125.7	141.4	134.5	131.1	130.8	139.0	139.0	132.3
630	123.6	136.8	134.9	130.2	131.3	137.8	141.4	133.2
800	122.4	131.0	130.4	129.6	135.1	136.4	138.7	134.6
1K	123.6	128.4	124.1	132.8	132.3	134.7	133.6	130.9
1.25K	124.8	129.7	125.5	131.8	127.7	133.6	133.5	129.7
1.6K	125.4	128.6	128.5	130.5	131.6	132.4	134.9	131.8
2K	128.2	128.4	129.3	132.5	135.0	131.9	136.4	134.4
2.5K	136.4	134.7	137.4	138.4	140.5	133.4	144.3	141.4
3.15K	136.2	135.2	137.2	138.7	140.3	134.7	145.8	143.3
4K	130.9	131.1	131.7	133.5	135.5	130.7	141.4	138.7
5K	130.8	131.0	131.8	133.5	134.6	129.9	140.6	138.1
6.3K	130.5	131.5	131.7	133.7	134.5	130.7	141.9	140.1
8K	128.8	130.7	130.2	132.7	133.1	129.6	141.0	139.7
10K	127.2	129.6	129.3	132.1	132.1	128.5	140.7	140.0
63	122.2	135.9	121.4	129.7	124.5	139.7	126.5	133.8
125	126.9	139.7	126.0	134.2	130.1	142.3	130.4	134.3
250	133.8	145.7	131.7	141.2	134.7	144.9	136.0	137.2
500	131.8	146.7	138.8	136.9	135.4	143.8	144.0	137.8
1K	128.5	134.6	132.3	136.4	137.4	139.8	140.8	137.0
2K	137.3	136.4	138.7	140.0	142.0	137.4	145.4	142.5
4K	138.2	137.7	139.1	140.8	142.4	137.1	148.1	148.8
8K	133.8	135.4	135.3	137.6	138.1	134.4	146.0	144.7
LP-8	142.9	150.6	144.8	147.3	147.2	150.1	152.6	150.2
SIL	134.6	136.2	136.7	139.0	140.6	138.1	144.7	141.7
80BA	142.8	146.5	144.6	146.2	147.4	146.1	152.7	150.0
PNDB	157.4	160.4	158.8	161.2	161.7	160.5	167.0	164.7
*STOP= 0								

YF-12 INLET NOISE SUPPRESSION
 12141 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 208
 SPIKE AFT
 BYPASS DOORS OPEN
 4200 RPM

RUN	94	95	96	97	98	99	100	101
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	114.7	126.3	113.4	121.2	124.7	137.3	121.8	128.7
63	115.4	127.4	114.9	121.8	126.0	138.2	122.7	128.6
80	115.4	126.3	114.6	122.6	127.5	139.5	123.4	127.9
100	115.5	126.6	115.2	124.1	127.8	140.7	125.3	128.2
125	117.3	129.3	115.6	126.1	129.8	141.8	126.3	128.3
160	118.3	129.3	116.7	128.7	131.1	142.5	126.8	128.5
200	123.5	130.1	120.1	132.4	132.4	143.9	127.5	130.2
250	126.6	132.3	124.5	136.5	133.4	144.7	130.1	131.8
315	127.7	135.8	127.8	135.9	131.8	144.3	131.7	131.2
400	126.3	138.2	131.5	132.8	132.3	143.7	134.1	130.5
500	121.6	135.3	135.3	129.8	132.6	143.0	136.0	129.8
630	118.3	130.2	134.6	128.6	132.7	141.4	137.8	130.0
800	117.9	123.4	130.3	128.1	136.5	139.8	135.7	132.0
1K	117.2	120.9	124.8	129.2	134.5	138.3	131.3	129.0
1.25K	118.0	123.7	125.8	129.5	131.9	137.1	131.9	127.8
1.6K	118.8	123.3	130.1	130.6	135.0	136.1	133.2	129.8
2K	124.6	127.7	134.0	134.0	140.9	136.3	136.8	135.3
2.5K	129.8	133.1	139.7	139.0	146.0	140.5	146.9	142.3
3.15K	123.0	127.6	134.3	132.9	138.9	135.2	139.3	136.9
4K	122.8	127.0	132.8	132.4	137.5	133.3	137.3	135.2
5K	124.5	128.1	134.1	133.7	138.6	134.3	140.7	137.9
6.3K	123.1	127.4	133.0	132.9	137.6	134.2	139.1	137.4
8K	123.4	127.8	132.9	133.0	137.5	133.9	140.2	140.1
10K	121.6	126.7	131.5	132.1	135.8	132.7	140.0	140.1
63	120.0	132.2	119.1	126.7	131.0	143.2	127.5	133.2
125	121.9	133.9	120.7	131.5	134.5	146.5	130.9	133.1
250	131.0	138.2	130.0	140.0	137.3	149.1	134.9	135.9
500	128.1	140.4	138.8	135.6	137.3	147.6	141.0	134.9
1K	122.5	127.6	132.4	133.7	139.5	143.3	138.2	134.8
2K	131.2	134.6	141.1	140.6	147.5	142.9	147.5	143.3
4K	128.3	132.3	138.6	137.8	143.2	139.1	144.1	141.6
8K	127.5	131.8	137.3	137.5	141.8	138.4	144.5	144.1
LP-8	136.9	144.5	145.6	146.1	150.6	154.1	151.3	148.8
SIL	127.3	131.5	137.4	137.4	143.4	141.8	143.3	139.9
00BA	135.7	141.3	145.6	145.2	150.9	150.1	151.5	148.5
PNDB	150.8	156.0	159.8	160.1	165.6	164.7	166.1	162.9
*STOP 0								

YF-12 INLET NOISE SUPPRESSION
 12:47 JUN 05, '80 TEST 11117
 YF-12 INLET NOISE SUPPRESSION
 RUN 210
 SPIKE AFT
 BYPASS DOORS OPEN
 5000 RPM

RUN	105	106	107	108	109	110	111	112
FREQ (Hz)	TR 1 K1 O. DEG	TR 2 K6 O. DEG	TR 3 K3 O. DEG	TR 4 K8 O. DEG	TR 5 K5 O. DEG	TR 6 K10 O. DEG	TR 7 K14 O. DEG	TR 8 K12 O. DEG
50	116.3	129.5	116.7	122.9	129.7	140.3	122.6	130.0
63	117.7	130.7	117.6	124.3	131.0	141.0	124.2	130.3
80	118.2	131.7	118.3	124.9	131.7	142.0	125.8	130.3
100	118.8	132.3	119.1	126.3	132.7	143.0	127.2	130.1
125	120.7	133.0	119.3	128.6	133.8	143.9	128.3	130.5
160	121.8	133.4	120.2	131.6	134.6	144.0	129.2	131.5
200	127.3	134.5	123.6	135.2	136.1	145.2	130.8	133.1
250	130.1	136.8	127.8	138.9	137.5	146.2	132.8	135.0
315	132.3	140.4	131.8	138.8	137.4	147.0	135.5	135.4
400	131.8	142.7	135.6	137.2	137.8	147.3	137.4	135.2
500	127.0	140.2	139.8	134.4	138.6	147.4	141.0	134.4
630	124.2	135.5	140.3	133.3	139.0	146.7	143.5	135.8
800	129.5	131.3	138.8	136.7	144.1	145.7	141.3	137.1
1K	123.7	126.2	131.0	134.1	140.4	144.4	136.3	133.7
1.25K	122.3	127.5	130.4	134.0	138.3	143.3	135.8	132.8
1.6K	122.7	126.4	133.8	134.1	139.7	142.2	137.1	134.1
2K	125.1	126.9	134.3	134.1	141.9	141.2	138.1	136.8
2.5K	129.4	131.9	139.3	138.2	146.7	141.4	144.3	142.5
3.15K	129.2	132.2	139.7	138.1	146.1	141.7	146.6	145.1
4K	125.9	129.3	135.6	135.5	142.6	139.7	143.9	141.1
5K	125.1	127.9	134.5	134.4	140.8	139.0	142.5	140.1
6.3K	123.8	127.7	133.8	133.7	139.9	138.9	143.2	141.6
8K	123.1	126.9	132.7	132.9	138.6	137.9	142.7	141.1
10K	122.0	125.4	131.6	132.5	137.2	136.8	142.3	141.2
63	122.2	135.5	122.4	128.9	135.7	145.9	129.2	135.0
125	125.4	137.7	124.3	134.2	138.5	148.4	133.1	135.5
250	135.1	142.7	133.7	142.7	141.8	151.0	138.2	139.4
500	133.6	145.1	143.8	140.0	143.3	151.9	146.1	139.9
1K	131.2	133.7	140.0	139.9	144.4	149.4	143.3	139.7
2K	131.4	134.0	141.3	140.7	148.6	146.4	145.8	144.0
4K	131.9	134.9	142.0	141.1	148.5	145.0	149.5	147.5
8K	127.8	131.5	137.5	137.8	143.5	142.7	147.5	146.1
LP-4	140.4	148.4	148.6	148.6	154.1	157.6	154.1	151.9
51L	131.5	144.2	141.1	140.4	147.8	146.9	146.2	143.7
80BA	138.4	144.4	148.1	147.3	154.1	154.6	154.0	151.8
PNDB	152.9	157.9	161.9	161.7	168.3	168.2	168.3	166.6

*STOP 0

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APPENDIX C

TABULATIONS OF ACOUSTIC DATA FOR BELLMOUTH INLET/J58 ENGINE TESTS

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APPENDIX C

TABULATIONS OF ACOUSTIC DATA FOR BELLMOUTH INLET/J58 ENGINE TESTS

This appendix contains one-third octave band SPL tabulations of the acoustic data taken from the J58 engine/bellmouth inlet tests. Table C-1 shows the run numbers and corresponding engine speeds.

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TABLE C-1. RUN NUMBERS FOR BELLMOUTH INLET/J58 ENGINE
ACOUSTIC TESTS AT BEALE AFB

RUN NO.	ENGINE SPEED (RPM)
1	3640
2	4000
3	4200
4	4400
5	4500
6	4600
7	4800
8	5000
9	5200
10	5400
11	5500
12	5600
13	5800
14	6000
15	6100
16	6200

RUN NO.	ENGINE SPEED (RPM)
17	6300
18	6400
19	6500
20	6600
21	6700

YF-12 BEAL TEST 3/26/80
 16:28 JUN 25, '80 TEST 11274
 YF-12 BEAL TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 1
 3640 RPM

RUN	15	16	17	18	19	20	21
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.0	99.6	83.0	80.9	78.7	87.3	91.4
63	95.5	94.9	78.0	74.8	80.7	86.2	.0
80	93.8	93.2	80.3	77.5	79.4	80.1	86.9
100	92.0	93.9	81.9	79.3	79.9	79.8	87.8
125	97.5	93.7	84.2	81.5	81.9	80.4	90.5
160	99.7	96.0	86.2	83.8	82.7	83.1	91.0
200	98.2	97.6	85.3	83.5	84.6	85.1	89.0
250	100.3	97.7	85.2	82.9	85.1	85.1	92.2
315	102.7	100.9	87.3	84.6	88.8	87.5	94.0
400	107.2	104.8	91.7	89.3	92.1	91.5	98.4
500	112.7	110.7	96.0	93.7	96.6	95.8	104.3
630	113.5	111.1	96.4	92.9	98.4	96.9	103.8
800	114.2	110.6	97.0	94.0	98.1	97.2	104.5
1K	114.1	111.8	97.3	94.1	98.0	97.9	104.4
1.25K	115.1	113.4	99.3	96.5	99.2	98.8	106.5
1.6K	116.1	114.0	98.9	95.8	99.9	99.7	106.5
2K	126.8	120.8	103.8	100.4	105.6	105.0	110.9
2.5K	116.8	114.1	99.6	96.2	99.8	99.6	107.2
3.15K	114.3	114.6	100.9	97.9	99.4	99.5	108.8
4K	115.6	114.4	102.0	97.4	102.0	101.3	110.1
5K	113.8	113.4	99.7	96.4	101.5	99.5	109.7
6.3K	116.5	113.9	99.0	94.5	100.9	102.2	109.3
8K	113.7	113.0	97.8	93.7	98.9	99.6	108.3
10K	109.7	110.2	94.1	89.6	95.9	93.8	106.5
63	100.9	101.5	85.7	83.2	84.5	90.3	.0
125	102.2	99.4	89.2	86.7	86.4	86.1	94.8
250	105.6	103.8	90.8	88.5	91.3	90.8	96.9
300	116.6	114.4	99.9	97.1	101.2	100.1	107.7
1K	119.3	116.9	102.7	99.8	103.3	102.8	110.0
2K	127.6	122.3	106.1	102.8	107.4	107.0	113.4
4K	119.4	118.9	105.7	102.0	105.9	105.0	114.3
8K	118.9	117.4	102.2	97.9	103.8	104.5	112.9
LP-8	129.4	125.9	111.0	107.6	111.9	111.5	119.3
SIL	122.1	119.4	104.9	101.5	105.5	104.9	112.6
ODBA	130.2	126.4	111.4	108.0	112.3	111.9	119.6
PND8	143.4	139.5	124.6	121.0	125.2	124.9	132.8

YF-12 BFAL TEST 3/26/80

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TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 2

4000 RPM

RUN	22	23	24	25	26	27	28
FREQ (Hz)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	97.4	99.3	82.9	80.8	78.5	87.4	91.3
63	98.6	95.3	80.1	77.3	84.7	88.6	88.4
80	94.9	94.4	81.4	78.5	80.6	81.5	87.8
100	93.6	95.1	82.6	80.0	80.3	80.6	88.4
125	98.1	95.2	84.8	82.2	82.4	81.9	91.3
160	100.6	97.3	87.1	84.7	83.6	84.8	92.2
200	98.7	99.2	86.7	84.8	85.1	86.4	90.2
250	101.3	98.2	85.9	83.5	85.5	85.7	92.7
315	103.5	101.8	87.9	85.2	89.2	88.1	94.7
400	108.3	105.7	92.5	90.2	92.5	92.0	99.4
500	113.4	111.6	96.7	94.3	97.3	96.3	105.1
630	114.7	112.4	97.6	94.2	99.3	98.0	105.3
800	115.5	112.1	98.1	95.2	99.1	98.2	105.9
1K	115.5	113.0	98.2	95.1	98.8	98.9	105.5
1.25K	116.4	114.3	99.7	96.9	99.7	99.7	106.9
1.6K	117.0	114.9	99.8	96.8	100.4	100.4	107.7
2K	122.6	119.2	102.3	98.2	101.5	103.6	109.8
2.5K	128.4	123.6	105.6	100.5	104.1	107.7	112.9
3.15K	115.5	114.8	101.0	98.1	100.0	100.7	109.5
4K	115.0	114.3	100.8	96.8	100.9	101.2	110.2
5K	116.5	115.9	101.3	97.6	101.9	102.1	111.4
6.3K	115.0	114.2	100.5	96.2	101.3	102.2	110.6
8K	114.8	113.9	97.9	94.4	98.7	101.4	108.6
10K	112.7	112.4	95.2	91.1	96.1	97.3	108.3
63	102.0	101.6	86.4	83.9	86.8	91.5	94.2
125	103.1	100.8	90.0	87.5	87.1	87.6	95.7
250	106.4	104.8	91.7	89.3	91.8	91.6	97.7
500	117.7	115.5	100.9	98.0	102.0	100.9	108.7
1K	120.6	118.0	103.5	100.6	104.0	103.8	110.9
2K	129.7	125.3	108.0	103.5	107.1	109.7	115.4
4K	120.5	119.8	105.8	102.3	105.8	106.2	115.2
8K	119.1	118.3	103.2	99.1	104.0	105.5	114.1
LP-8	131.1	127.9	112.0	108.3	112.0	113.2	120.6
SIL	123.6	121.1	105.8	102.1	105.6	106.5	113.8
COBA	132.0	128.5	112.5	108.6	112.3	113.7	120.9
PNDB	145.9	142.5	126.2	122.1	125.6	127.7	134.3
*STOP 0							

YF-12 BEAL TEST 3/26/80
 16:36 JUN 25/80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 3
 4200 RPM

RUN	29	30	31	32	33	34	35
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.3	99.4	82.6	80.5	78.0	87.2	90.9
63	97.3	94.7	80.4	77.3	82.6	86.0	88.0
80	96.8	96.3	83.0	80.2	82.8	81.8	89.6
100	94.1	95.8	83.4	80.6	81.1	81.3	89.2
125	98.9	95.9	85.5	82.7	82.6	82.4	92.1
160	101.6	98.8	88.0	85.4	84.5	85.2	93.1
200	100.4	100.7	87.3	85.3	86.2	87.1	91.1
250	102.7	99.5	86.4	83.9	86.1	86.9	93.3
315	104.6	102.6	88.3	85.6	89.8	88.8	95.3
400	108.7	106.7	92.8	90.3	93.2	92.3	99.6
500	114.0	112.1	97.1	94.5	97.7	96.9	105.3
630	115.5	113.1	98.3	94.7	100.1	98.6	105.9
800	116.4	113.0	98.8	95.5	99.9	99.0	106.6
1K	116.5	113.9	98.8	95.4	99.6	99.6	106.4
1.25K	117.2	114.9	99.6	96.4	100.2	100.2	107.1
1.6K	117.8	115.8	100.2	96.8	100.7	101.0	108.0
2K	119.0	116.7	101.2	97.5	101.1	102.3	109.1
2.5K	127.7	121.6	105.1	101.7	105.4	110.8	114.2
3.15K	116.0	114.7	100.7	97.7	100.2	100.6	108.9
4K	114.9	114.3	100.7	96.5	101.4	100.8	110.0
5K	115.3	115.8	102.0	97.5	102.5	102.4	112.3
6.3K	114.0	113.8	100.4	95.5	100.5	100.1	111.1
8K	115.0	114.3	99.5	95.5	99.5	100.9	109.6
10K	113.3	112.6	95.2	90.2	96.4	95.4	107.7
63	102.3	102.0	86.9	84.3	86.4	90.3	94.4
125	104.0	101.8	90.8	88.1	87.7	88.0	96.5
250	107.7	105.9	92.2	89.8	92.5	92.5	98.3
500	118.3	116.2	101.4	98.4	102.6	101.4	109.2
1K	121.5	118.8	103.9	100.6	104.7	104.4	111.5
2K	128.6	123.6	107.5	104.0	107.8	111.8	116.1
4K	120.2	119.7	106.0	102.0	106.2	106.1	115.4
8K	118.9	118.4	103.7	99.1	103.9	104.1	114.4
LP-8	130.5	127.1	112.0	108.4	112.5	114.2	121.0
SIL	123.4	120.7	105.8	102.2	106.2	107.4	114.3
ODBA	131.3	127.6	112.4	108.8	112.8	114.9	121.4
PNDB	145.4	141.5	126.1	122.6	126.4	129.2	135.0

YF-12 BEAL TEST 3/26/80
 16136 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 4
 4400 RPM

RUN	36	37	38	39	40	41	42
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	97.5	99.2	82.8	80.6	78.7	87.3	91.1
63	96.1	94.1	79.4	76.0	81.1	86.1	87.5
80	97.8	96.5	84.3	81.1	81.5	84.4	90.3
100	94.5	96.0	84.0	81.3	81.3	82.2	89.9
125	99.2	95.8	85.9	83.1	83.1	82.8	92.4
160	102.3	98.7	88.4	86.1	84.9	85.7	93.4
200	100.5	100.5	87.8	85.8	86.5	87.8	91.7
250	103.2	99.4	87.0	84.6	86.8	87.2	93.7
315	105.4	102.3	88.8	86.4	90.5	89.2	95.7
400	109.1	106.7	93.3	91.0	94.0	92.8	100.1
500	114.2	112.1	97.4	95.0	98.2	97.2	105.6
630	115.5	113.7	98.8	95.4	100.8	99.5	106.5
800	116.4	113.5	99.4	96.4	100.5	99.8	107.2
1K	116.9	114.5	99.6	96.4	100.3	100.5	107.0
1.25K	117.6	115.2	99.9	97.1	100.8	101.1	107.6
1.6K	118.1	116.1	100.8	97.7	101.3	101.8	108.5
2K	118.6	116.8	101.5	98.2	101.8	102.3	109.4
2.5K	123.3	119.1	105.3	102.5	108.4	107.4	113.1
3.15K	116.2	114.8	100.9	98.4	100.7	101.5	109.3
4K	115.2	114.3	100.7	97.3	101.3	101.6	110.4
5K	122.7	117.6	101.8	99.1	103.1	104.3	111.9
6.3K	114.7	114.2	100.8	96.5	101.3	101.3	109.9
8K	116.0	113.7	98.7	95.9	101.4	102.0	109.4
10K	114.4	112.4	94.9	91.2	96.8	96.8	107.4
125	102.0	101.9	87.4	84.5	85.4	90.9	94.7
125	104.5	101.8	91.2	88.7	88.1	88.6	96.9
250	108.2	105.7	92.7	90.4	93.1	92.9	98.8
500	118.5	116.5	101.8	99.0	103.3	102.0	109.6
1K	121.8	119.2	104.4	101.4	105.3	105.3	112.0
2K	125.5	122.3	107.8	104.8	109.9	109.4	115.6
4K	124.2	120.6	105.9	103.1	106.6	107.5	115.4
8K	119.8	118.3	103.5	99.8	105.1	105.3	113.8
LP-8	129.7	126.9	112.3	109.2	113.7	113.6	120.9
SIL	123.8	120.7	106.0	103.1	107.3	107.4	114.4
ODBA	130.2	127.2	112.6	109.6	114.1	114.1	121.2
PNDB	143.6	140.5	126.3	123.4	128.2	127.9	134.6
*STOP 0							

YF-12 BEAL TEST 3/26/80

16:44 JUN 25, '80

TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 5

4500 RPM

RUN	43	44	45	46	47	48	49
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	97.8	99.5	83.6	80.4	79.4	87.7	91.3
63	95.5	93.7	78.6	75.5	80.9	86.1	87.2
80	96.2	95.3	82.8	79.9	81.6	83.1	89.2
100	94.5	95.9	83.9	81.2	81.3	81.9	89.7
125	99.7	96.1	85.9	83.3	83.0	82.9	92.1
160	102.8	99.1	88.7	86.4	85.1	86.5	93.4
200	100.2	100.8	88.3	86.4	86.5	88.6	92.0
250	102.1	99.6	87.3	84.9	86.7	87.6	94.1
315	104.7	102.6	89.2	86.5	90.2	89.1	95.8
400	109.1	106.8	93.7	91.4	93.6	92.7	100.3
500	114.4	112.3	97.6	95.3	98.2	97.0	105.6
630	116.0	113.9	99.2	95.9	100.7	99.3	106.7
800	116.6	113.7	99.9	96.9	100.7	99.6	107.5
1K	117.2	114.7	100.1	96.9	100.5	100.6	107.4
1.25K	118.0	115.5	100.5	97.5	101.1	101.0	107.7
1.6K	118.3	116.8	102.0	98.9	101.7	101.6	109.0
2K	118.8	117.2	101.9	98.6	102.0	102.3	109.7
2.5K	128.6	120.2	104.6	101.6	107.0	106.0	113.7
3.15K	117.5	115.2	101.2	98.6	101.4	101.7	109.5
4K	116.0	114.6	101.0	97.4	102.1	101.7	110.2
5K	119.2	115.5	102.7	99.3	103.0	102.6	113.7
6.3K	114.7	114.3	101.3	96.6	101.3	101.2	111.2
8K	116.4	114.6	100.2	96.6	102.0	102.4	109.7
10K	113.9	112.9	95.9	91.4	97.2	97.5	107.9
63	101.4	101.7	86.9	83.8	85.5	90.8	94.3
125	104.9	102.1	91.4	88.9	88.2	89.0	96.8
250	107.5	105.9	93.1	90.7	92.9	93.2	99.0
500	118.8	116.6	102.1	99.4	103.2	101.9	109.7
1K	122.1	119.5	105.0	101.9	105.6	105.2	112.3
2K	129.4	123.1	107.8	104.7	109.1	108.5	116.1
4K	122.5	119.9	106.5	103.3	107.0	106.8	116.3
8K	119.9	118.8	104.5	100.2	105.4	105.6	114.6
LP-8	131.4	127.2	112.7	109.4	113.5	113.2	121.5
SIL	124.7	120.8	106.4	103.3	107.2	106.8	114.9
ODBA	132.2	127.5	113.0	109.7	113.9	113.5	121.8
PNOB	146.4	141.1	126.3	123.2	127.6	127.1	135.1

YF-12 BEAL TEST 3/26/80

16144 JUN 25/80

TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 6

4600 RPM

RUN	50	51	52	53	54	55	56
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	97.8	99.9	84.1	81.1	79.9	88.1	91.9
63	95.6	93.5	78.4	75.2	80.6	85.8	87.2
80	96.3	96.1	82.8	79.8	82.5	83.0	89.6
100	95.3	96.3	84.3	81.6	81.5	82.6	90.0
125	99.6	96.3	86.1	83.5	83.1	83.7	92.2
160	102.0	99.3	88.7	86.5	85.4	86.9	93.6
200	99.7	100.8	88.4	86.5	86.7	88.8	92.3
250	101.7	99.9	87.5	85.2	87.2	88.2	94.3
315	104.5	102.9	89.3	86.6	90.5	89.7	96.1
400	109.0	106.9	93.8	91.5	93.9	93.4	100.7
500	114.4	112.4	97.8	95.5	98.6	97.6	105.8
630	116.2	113.9	99.6	96.2	101.0	100.6	107.0
800	116.6	113.9	100.2	97.3	100.9	100.9	107.9
1K	117.4	115.1	100.5	97.4	101.1	101.6	107.8
1.25K	118.0	115.7	100.7	97.8	101.8	101.9	108.0
1.6K	118.3	117.0	102.5	99.5	102.4	102.9	109.4
2K	118.7	117.4	102.3	99.0	102.8	103.6	110.0
2.5K	126.3	119.2	106.0	102.6	110.5	109.6	112.4
3.15K	117.5	115.4	101.9	99.2	102.7	103.8	109.8
4K	115.5	114.9	102.0	97.9	103.1	103.9	110.9
5K	119.5	118.3	103.1	98.8	104.5	105.1	112.9
6.3K	115.4	114.9	102.2	97.0	102.4	103.5	111.4
8K	115.8	114.9	101.3	96.8	102.5	104.3	109.6
10K	114.5	113.4	98.5	91.6	98.9	100.2	108.6
63	101.4	102.0	87.1	84.1	85.9	90.9	94.8
125	104.5	102.3	91.5	89.1	88.4	89.5	97.0
250	107.2	106.2	93.3	90.9	93.3	93.7	99.3
500	118.8	116.7	102.4	99.6	103.5	102.9	110.0
1K	122.1	119.7	105.2	102.3	106.0	106.3	112.7
2K	127.6	122.7	108.8	105.4	111.7	111.2	115.6
4K	122.6	121.2	107.1	103.5	108.3	109.1	116.1
8K	120.0	119.2	105.7	100.5	106.4	107.8	114.8
LP-8	130.4	127.4	113.4	109.9	115.1	115.3	121.4
SIL	124.1	121.2	107.0	103.7	108.7	108.9	114.8
ODBA	131.0	127.7	113.7	110.2	115.6	115.8	121.7
PNOB	145.1	140.9	127.3	123.8	129.8	129.7	134.8
STOP 0							

YF-12 BEAL TEST 3/26/80

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TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 7

4800 RPM

RUN	57	58	59	60	61	62	63
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.4	99.8	82.9	81.2	79.8	87.7	91.6
63	96.6	94.2	78.9	75.7	81.1	86.3	87.6
80	96.6	96.9	82.8	80.0	83.3	84.6	89.1
100	96.2	96.8	84.6	81.8	82.2	83.4	90.4
125	100.2	96.8	86.3	83.6	83.7	83.6	92.6
160	102.3	99.7	89.3	86.9	85.6	86.6	94.0
200	100.5	101.5	89.2	87.2	87.3	89.2	92.8
250	103.1	100.8	88.4	86.2	88.1	88.9	95.1
315	105.1	103.4	89.8	87.1	91.1	90.2	96.6
400	109.5	107.6	94.2	91.9	94.5	93.5	101.0
500	114.7	112.6	98.1	95.8	98.7	97.6	106.0
630	116.7	114.5	99.8	96.5	101.5	100.5	107.4
800	117.4	114.6	100.7	97.6	101.6	100.8	108.3
1K	118.1	115.7	101.0	97.7	101.7	101.9	108.4
1.25K	118.7	116.2	101.2	98.2	102.2	102.0	108.4
1.6K	119.0	117.6	102.8	99.8	102.8	102.9	109.6
2K	119.2	117.7	102.6	99.1	103.1	103.2	110.2
2.5K	122.3	120.8	106.0	103.4	106.9	108.4	116.5
3.15K	119.0	117.6	103.8	101.2	103.7	104.7	113.0
4K	116.3	115.1	101.9	97.9	102.5	102.9	110.7
5K	116.8	115.6	101.8	98.2	103.7	103.0	113.9
6.3K	116.7	115.4	102.6	98.2	103.8	103.4	114.2
8K	115.9	114.7	100.8	97.3	101.6	103.3	111.3
10K	114.0	113.4	97.0	91.9	98.4	98.8	107.8
63	102.0	102.3	86.7	84.3	86.4	91.2	94.5
125	105.0	102.8	91.9	89.4	88.9	89.5	97.3
250	108.0	106.8	93.9	91.6	93.9	94.3	99.8
500	119.3	117.2	102.7	99.9	103.9	102.8	110.3
1K	122.9	120.3	105.7	102.6	106.6	106.4	113.1
2K	125.2	123.8	108.8	106.0	109.5	110.4	118.1
4K	122.3	121.0	107.4	104.1	108.1	108.4	117.5
8K	120.4	119.3	105.5	101.3	106.6	107.1	116.6
LP-8	129.6	127.9	113.6	110.4	114.4	114.7	123.0
SIL	123.5	121.7	107.3	104.2	108.1	108.4	116.2
808A	129.9	128.3	113.9	110.8	114.7	115.2	123.4
PNOB	143.3	141.8	127.4	124.4	128.2	128.9	137.0

YF-12 B7AL TEST 3/26/80

16:52 JUN 25/80

TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 8

5000 RPM

RUN	64	65	66	67	68	69	70
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.8	100.1	83.3	81.7	79.6	87.8	91.6
63	96.2	94.5	79.2	75.8	81.3	86.6	87.6
80	96.9	96.3	84.7	81.5	82.4	83.5	90.8
100	96.5	97.0	85.1	82.4	82.5	83.3	90.8
125	100.6	97.1	86.8	84.3	84.2	84.3	93.0
160	102.8	99.9	89.5	87.2	86.2	87.6	94.4
200	100.7	101.7	89.5	87.6	87.9	89.8	92.8
250	103.5	101.0	88.7	86.4	88.2	89.4	95.5
315	105.2	103.6	90.1	87.4	91.2	90.6	96.6
400	109.5	107.6	94.6	92.3	94.7	93.7	101.3
500	114.5	112.8	98.4	96.1	99.1	97.9	105.9
630	117.1	114.7	100.4	97.0	101.6	101.0	107.6
800	117.4	114.7	101.0	97.8	101.8	101.1	108.6
1K	118.2	116.1	101.4	98.2	101.9	102.1	108.7
1.25K	118.9	116.5	101.4	98.4	102.5	102.4	108.7
1.6K	119.1	118.1	103.2	100.2	103.1	103.1	110.0
2K	119.4	118.2	102.8	99.4	103.2	103.6	110.4
2.5K	125.0	121.5	105.0	103.1	106.1	108.0	115.6
3.15K	123.8	120.3	104.7	102.9	105.2	107.1	114.9
4K	116.1	115.3	101.8	97.8	102.7	103.3	110.8
5K	115.9	115.8	101.5	97.7	102.5	103.3	111.0
6.3K	116.9	116.9	103.1	98.5	104.3	104.8	113.2
8K	115.8	114.7	100.9	96.9	101.9	103.6	111.4
10K	113.5	112.8	96.4	91.7	98.4	99.1	107.5
125	102.2	102.4	87.7	85.2	86.0	91.1	95.1
125	105.5	103.0	92.3	89.8	89.3	90.2	97.7
250	108.3	107.0	94.3	91.9	94.1	94.7	100.0
500	119.5	117.4	103.1	100.3	104.1	103.2	110.4
1K	123.0	120.6	106.0	102.9	106.8	106.7	113.4
2K	126.9	124.4	108.5	106.0	109.1	110.2	117.6
4K	125.0	122.5	107.7	104.9	108.4	109.7	117.4
8K	120.4	119.9	105.7	101.3	107.0	107.9	116.0
LP#8	130.9	128.6	113.7	110.7	114.5	115.2	122.7
SIL	125.0	122.5	107.4	104.6	108.1	108.9	116.1
UDBA	131.5	129.1	114.0	111.1	114.8	115.7	123.2
PNOB	144.9	142.4	127.4	124.7	128.0	129.1	136.7
*STOP 0							

YF-12 BEAL TEST 3/26/80
 16:59 JUN 25/80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 9
 5200 RPM

RUN	71	72	73	74	75	76	77
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 7 B8 0. DEG
50	98.5	100.0	83.7	80.8	80.3	88.5	91.4
63	97.1	94.2	79.6	76.4	81.6	86.9	87.6
80	97.5	97.5	84.8	81.6	82.5	83.6	90.9
100	97.0	97.5	85.5	82.7	82.8	84.1	91.2
125	101.0	97.5	87.2	84.5	84.3	84.9	93.3
160	102.8	100.6	90.1	87.9	86.4	88.0	95.2
200	100.9	102.2	90.1	88.2	88.1	90.3	93.7
250	103.3	101.7	89.5	87.4	88.8	90.4	96.2
315	105.5	104.0	90.7	87.9	91.7	91.5	97.4
400	109.8	108.2	95.0	92.8	95.0	94.2	101.8
500	114.8	113.0	98.7	96.8	99.5	98.2	106.6
630	117.4	115.1	100.6	97.7	102.1	101.5	107.9
800	118.0	115.5	101.6	98.7	102.3	101.8	109.1
1K	118.9	116.7	102.0	99.0	102.5	102.7	109.3
1.25K	119.4	117.1	102.0	99.3	103.4	103.1	109.2
1.6K	119.5	118.1	103.4	100.6	104.5	104.1	111.4
2K	119.4	118.4	103.5	100.5	103.7	103.8	111.0
2.5K	120.4	120.0	104.2	102.0	106.0	106.0	112.2
3.15K	123.4	124.8	108.2	107.3	110.3	110.7	117.0
4K	116.7	115.8	102.2	98.7	103.3	103.7	111.4
5K	118.0	115.5	101.4	98.0	102.3	102.8	110.0
6.3K	118.4	117.0	104.0	99.6	105.6	106.4	113.7
8K	115.0	114.6	100.8	97.6	101.9	102.5	110.5
10K	114.6	113.7	98.2	94.0	99.5	99.9	108.9
63	102.5	102.6	88.0	84.9	86.3	91.5	95.0
125	105.6	103.6	92.8	90.4	89.5	90.8	98.3
250	108.4	107.5	94.9	92.6	94.6	95.5	100.8
500	119.7	117.7	103.5	101.0	104.5	103.7	110.9
1K	123.6	121.2	106.6	103.8	107.5	107.4	114.0
2K	124.6	123.7	108.5	105.9	109.6	109.5	116.3
4K	124.8	125.8	109.8	108.3	111.6	112.1	118.7
8K	121.1	120.1	106.4	102.4	107.9	108.5	116.3
LP=8	130.2	129.6	114.5	112.1	115.9	116.1	123.0
SIL	124.3	123.6	108.3	106.0	109.6	109.6	116.3
ODBA	130.8	130.2	114.9	112.7	116.4	116.6	123.4
PNOB	144.5	144.6	129.2	127.3	130.7	131.0	137.7

*STOP 0

YF-12 BEAL TEST 3/26/80

07:21 JUN 25, '80

TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMSOUTH

RUN 10

5400 RPM

RUN	78	79	80	81	82	83	84
TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG	
90	97.1	100.1	84.2	81.4	81.7	88.7	91.9
83	95.3	93.4	81.0	78.0	82.2	86.7	87.8
90	96.7	96.5	84.8	81.3	82.3	84.0	91.9
100	95.4	97.1	86.0	83.2	83.0	84.0	92.4
123	100.0	96.3	87.0	84.4	84.5	84.8	93.1
130	100.9	98.9	90.4	88.2	84.6	87.9	95.2
130	99.3	101.5	89.5	87.8	87.0	89.6	92.0
130	101.5	100.5	88.6	86.5	86.8	90.1	95.0
125	101.1	100.0	87.3	84.6	88.6	89.6	93.2
130	102.7	100.5	86.5	84.5	87.7	87.7	95.3
130	101.9	101.2	88.3	85.4	88.4	88.5	95.5
130	105.6	102.3	89.8	87.0	89.7	89.4	96.6
130	103.7	102.3	89.1	86.2	90.0	89.6	96.3
13	111.2	105.3	91.4	88.2	92.5	93.4	98.8
130	112.1	107.4	94.3	91.6	98.0	96.5	101.2
130	112.4	113.0	99.5	96.7	102.4	99.2	108.0
13	111.4	111.7	99.3	96.9	96.3	97.0	104.6
130	115.3	112.6	99.1	96.9	102.6	101.5	107.2
130	120.8	119.7	106.5	104.7	106.8	107.3	116.3
13	111.6	110.4	98.4	95.0	98.1	100.4	107.2
13	112.4	110.4	97.6	93.8	97.3	99.8	106.3
130	118.8	115.0	103.0	97.1	102.5	106.3	112.3
13	112.8	112.3	99.7	96.0	99.8	101.3	108.6
130	113.6	113.5	98.5	93.8	99.2	100.7	110.0
78	101.2	102.3	88.4	85.2	86.9	91.6	95.7
13	104.1	102.3	93.0	90.6	88.9	90.7	98.5
130	105.5	105.5	93.3	91.3	92.3	94.5	98.4
130	108.5	106.2	93.2	90.5	93.4	93.4	100.6
13	115.0	110.2	96.9	94.0	99.6	98.8	104.0
13	118.1	117.2	104.1	101.6	106.0	104.4	111.6
13	121.6	120.6	107.6	105.5	107.8	108.7	117.1
13	120.7	118.5	105.6	100.6	105.5	108.3	115.3
130	125.8	124.1	111.2	108.3	111.8	112.7	120.2
130	118.3	116.0	102.8	100.4	104.5	103.9	110.9
130	126.2	124.6	111.6	108.9	112.3	113.0	120.7
130	140.6	139.3	126.3	123.8	126.6	127.4	135.3

YF-12 BEAL TEST 3/26/80

07:21 JUN 25/80 TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 11

5500 RPM

RUN	86	85	87	88	89	90	91
FREQ (Hz)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	97.3	100.5	84.4	81.7	82.4	89.3	92.6
63	95.7	94.5	81.5	79.9	82.3	87.6	88.6
80	96.9	96.5	84.5	80.8	82.6	84.4	91.2
100	96.0	97.3	85.9	83.0	83.6	84.6	92.2
125	100.2	96.3	86.9	83.9	84.8	84.8	93.0
160	101.0	99.1	90.2	87.7	85.3	88.2	95.0
200	99.7	101.9	90.0	87.6	87.5	90.3	92.7
250	102.4	101.1	89.1	86.9	87.6	90.5	95.4
315	102.0	100.6	87.8	84.4	89.3	90.1	93.8
400	103.7	101.7	87.4	84.3	88.7	89.9	96.4
500	103.0	102.0	89.0	85.8	88.7	89.3	96.0
630	104.2	106.5	92.5	89.6	90.7	90.9	98.0
800	104.5	102.5	89.1	86.5	90.4	90.1	96.5
1K	113.0	106.9	92.1	89.1	94.4	94.9	100.7
1.25K	113.7	108.8	94.5	92.3	98.8	98.2	102.5
1.6K	111.9	113.6	100.9	97.6	104.4	99.4	109.5
2K	110.9	112.2	100.1	97.7	97.3	97.0	105.6
2.5K	115.9	112.6	99.4	97.3	103.7	102.4	107.4
3.15K	124.8	122.6	108.0	109.1	108.0	108.9	118.9
4K	112.8	111.5	99.1	96.4	99.7	101.8	108.6
5K	112.1	111.3	98.4	94.9	98.9	100.8	107.0
6.3K	118.7	115.6	105.8	99.8	104.5	107.6	111.6
8K	113.2	112.3	99.6	96.1	100.5	102.0	108.3
10K	113.9	113.7	98.7	94.6	100.7	100.9	109.1
63	101.4	102.7	88.4	85.6	87.2	92.3	95.8
125	104.3	102.5	92.8	90.2	89.4	91.0	98.4
250	106.3	106.0	93.8	91.3	93.0	95.1	98.9
500	108.4	108.8	95.0	91.9	94.3	94.9	101.7
1K	116.7	111.6	97.2	94.7	100.6	100.3	105.3
2K	118.3	117.6	104.9	102.3	107.5	104.9	112.6
4K	125.3	123.2	109.0	109.5	109.1	110.2	119.5
8K	120.8	118.8	107.4	102.1	107.1	109.3	114.7
LP-8	127.7	125.7	112.5	111.1	113.1	113.8	121.6
SIL	120.1	117.5	103.7	102.2	105.7	105.1	112.5
DDBA	128.4	126.4	113.0	112.0	113.7	114.2	122.3
PNOB	143.1	141.2	127.5	126.8	127.8	128.6	137.0

YF-12 BEAL TEST 3/26/80
 08:04 JUN 25, 1980 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 12
 5600 RPM

RUN	92	93	94	95	96	97	98
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	96.7	100.0	83.8	81.7	83.1	88.9	92.3
63	95.8	94.9	81.4	78.9	83.2	87.9	88.5
80	96.8	96.6	83.9	81.0	82.8	84.4	91.1
100	96.5	97.1	85.3	82.9	83.8	84.8	92.2
125	100.9	96.6	86.5	84.3	84.9	85.0	93.5
160	101.9	99.2	89.8	87.9	85.1	88.0	95.4
200	100.0	102.0	89.3	87.8	87.3	89.9	92.6
250	102.4	100.9	88.7	86.9	87.5	90.1	95.4
315	101.9	100.4	87.2	84.5	89.1	90.1	93.7
400	103.4	102.1	86.9	84.9	89.2	89.9	96.6
500	103.0	102.3	88.2	85.3	88.4	88.7	95.9
630	104.3	106.9	92.5	90.0	90.9	90.2	98.2
800	104.1	102.3	88.4	86.4	90.5	89.9	96.3
1K	113.3	106.8	91.2	88.7	93.9	95.0	100.2
1.25K	113.9	109.9	93.8	92.1	98.3	97.9	102.6
1.6K	111.5	113.2	99.8	96.9	103.3	98.4	109.8
2K	110.3	112.0	98.9	96.4	96.1	95.5	105.6
2.5K	115.4	112.2	97.6	95.6	102.0	101.5	107.2
3.15K	125.3	120.9	107.1	106.7	105.6	109.4	120.1
4K	112.9	111.6	97.3	94.4	97.9	100.5	108.3
5K	111.7	111.4	96.1	92.9	97.2	99.1	106.8
6.3K	117.6	115.9	103.2	97.7	102.4	105.5	111.5
8K	112.8	112.3	97.8	95.1	99.0	100.4	108.2
10K	113.7	113.5	96.2	93.4	98.6	99.1	108.8
63	101.2	102.4	87.9	85.5	87.8	92.2	95.7
125	105.1	102.6	92.4	90.4	89.4	91.0	98.6
250	106.3	105.9	93.2	91.4	92.8	94.8	98.8
500	108.4	109.1	94.7	92.2	94.4	94.4	101.8
1K	116.9	111.9	96.5	94.5	100.1	100.1	105.2
2K	117.7	117.3	103.6	101.1	106.2	103.9	112.7
4K	125.8	121.8	107.9	107.1	108.8	110.3	120.5
8K	120.0	118.9	105.0	100.6	105.1	107.4	114.5
LP-8	127.8	125.0	111.0	109.2	111.4	113.1	122.2
SIL	120.1	117.0	102.6	100.9	104.4	104.8	112.8
008A	128.5	125.4	111.8	109.9	111.9	113.6	123.0
PNOB	143.3	140.2	126.3	124.9	126.0	128.4	137.7

YF-12 BEAL TEST 3/26/80

08:04 JUN 25, '80

TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 13

5800 RPM

RUN	99	100	101	102	103	104	106
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	96.6	99.7	83.8	82.3	82.9	88.8	.0
63	96.5	96.2	82.1	80.8	83.1	89.3	.0
80	96.9	96.8	84.2	81.3	83.3	85.2	.0
100	96.8	97.2	85.0	82.9	84.5	85.3	.0
125	101.4	97.8	87.3	85.4	85.5	86.3	.0
160	102.0	100.7	91.4	89.4	86.4	89.6	96.2
200	99.7	102.7	89.9	88.2	87.7	90.6	.0
250	103.4	102.0	89.3	87.6	88.3	91.2	95.9
315	104.0	101.7	88.3	85.5	89.9	91.3	95.0
400	102.8	100.8	86.6	84.2	87.8	88.2	94.7
500	104.2	102.5	88.3	86.0	89.0	89.6	95.7
630	110.3	105.5	92.9	90.5	91.5	95.2	99.2
800	105.7	104.0	90.2	87.8	91.9	91.9	97.2
1K	115.4	107.9	93.2	90.1	93.7	95.9	101.3
1.25K	116.2	110.3	95.9	94.1	99.5	101.7	105.0
1.6K	115.1	116.2	103.4	100.4	105.6	101.8	113.9
2K	112.7	116.6	102.9	100.2	97.8	98.0	108.7
2.5K	116.5	114.8	99.7	97.5	103.9	102.8	109.1
3.15K	129.3	125.5	113.6	113.8	109.1	112.3	125.4
4K	117.6	115.5	103.0	100.9	101.2	103.5	112.6
5K	114.1	112.8	99.6	96.5	100.4	101.1	109.5
6.3K	120.7	117.4	106.7	101.9	103.7	105.9	113.0
8K	115.1	113.8	100.5	97.4	100.8	102.1	109.8
10K	114.6	114.1	100.3	95.7	100.1	99.8	110.5
125	101.4	102.6	88.2	86.3	87.9	92.9	95.7
125	105.4	103.6	93.6	91.5	90.3	92.2	98.6
250	107.5	106.9	94.0	92.0	93.5	95.8	98.8
500	111.8	108.1	94.9	92.6	94.5	96.9	101.8
1K	119.1	112.9	98.4	96.2	101.0	103.1	107.0
2K	119.8	120.7	107.0	104.3	108.3	106.1	116.0
4K	129.8	126.1	114.1	114.1	110.3	113.1	125.7
8K	122.5	120.2	108.4	103.9	106.6	108.1	116.1
LP-8	131.2	128.2	115.9	115.0	113.8	115.4	126.6
SIL	122.9	119.9	106.5	104.9	106.5	107.4	116.2
008A	132.1	129.0	116.7	116.0	114.4	116.0	127.6
PNDB	146.7	143.7	131.3	130.4	128.7	130.8	141.6
*STOP 0							

YF-12 BEAL TEST 3/26/80

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TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 14

6000 RPM

RUN	107	108	109	110	111	112	113
FREQ (Hz)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	97.8	100.3	85.9	84.5	85.3	89.4	93.9
63	98.4	96.4	84.2	81.4	85.8	90.3	91.3
80	98.6	98.9	86.1	83.4	85.7	87.3	93.0
100	97.4	98.7	86.8	84.7	86.6	87.2	92.7
125	102.1	99.2	89.2	87.1	87.7	88.0	96.0
160	102.5	101.5	92.3	90.5	88.1	90.6	97.4
200	100.9	103.5	91.3	89.9	89.6	91.9	95.1
250	103.8	103.3	90.7	89.0	89.8	93.0	97.5
315	106.1	103.1	90.0	87.4	92.3	93.2	96.8
400	103.1	101.9	88.3	86.0	90.0	90.3	96.4
500	104.4	104.0	89.5	87.1	91.1	92.0	97.7
630	112.7	110.9	94.7	93.6	97.0	100.0	100.6
800	110.3	107.3	93.2	91.6	94.3	96.8	98.5
1K	118.6	111.0	94.7	92.2	95.6	97.3	103.0
1.25K	118.3	114.8	97.5	96.1	99.7	103.6	104.7
1.6K	116.7	114.7	102.4	99.7	107.9	103.8	114.1
2K	114.4	115.9	104.4	101.7	101.1	101.7	112.1
2.5K	117.6	113.7	101.5	98.9	104.2	102.8	109.8
3.15K	127.9	124.0	113.8	113.7	108.4	114.1	119.8
4K	119.6	117.0	106.1	104.9	104.0	106.7	112.6
5K	115.6	114.6	100.8	98.6	102.4	102.1	110.2
6.3K	119.6	117.2	104.6	101.8	105.1	106.6	117.0
8K	116.6	115.6	102.2	100.2	102.9	104.1	113.0
10K	115.0	114.8	99.0	95.9	101.4	101.0	111.1
125	103.0	103.6	90.3	88.0	90.4	93.9	97.6
250	106.0	104.8	94.8	92.9	92.3	93.6	100.6
500	108.9	108.1	95.5	93.7	95.5	97.5	101.3
1K	113.7	112.2	96.6	95.0	98.6	101.0	103.4
2K	121.8	116.8	100.3	98.5	101.9	105.2	107.5
4K	121.2	119.6	107.7	105.0	110.1	107.6	117.1
8K	128.7	125.2	114.6	114.4	110.5	115.0	121.0
10K	122.3	120.8	107.3	104.7	108.2	109.2	119.2
LP-8	130.9	127.9	116.3	115.4	114.9	117.1	124.3
SIL	123.9	120.5	107.5	106.0	107.5	109.3	115.2
QUBA	131.7	128.5	117.1	116.4	115.4	117.8	124.9
PNDB	146.3	143.2	131.8	131.0	129.3	132.7	139.1

YF-12 BEAL TEST 3/26/80

08:13 JUN 25, 1980

TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 15

6100 RPM

RUN	114	115	116	117	118	119	120
FREQ (Hz)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	98.2	100.5	86.8	85.5	86.9	90.2	94.5
63	99.6	97.0	85.9	83.4	86.9	91.8	92.8
80	100.2	100.2	88.1	85.4	87.0	89.2	94.9
100	98.7	100.6	88.2	86.2	87.8	88.4	94.4
125	103.3	100.3	90.8	88.6	89.1	89.2	97.5
160	103.8	102.5	93.4	91.5	89.5	91.8	98.9
200	101.9	104.8	93.0	91.6	91.0	93.2	96.8
250	104.8	104.2	92.0	90.3	91.1	93.9	98.4
315	108.3	104.6	91.6	88.9	93.2	94.8	98.0
400	104.1	102.9	89.7	87.5	91.4	91.0	98.3
500	106.1	104.2	91.1	88.7	91.8	92.0	99.0
630	111.8	108.8	96.6	94.1	96.2	97.3	103.9
800	114.1	108.4	97.8	95.4	96.0	98.6	104.4
1K	116.1	112.4	95.6	92.5	97.4	101.9	102.6
1.25K	119.3	115.2	99.5	95.7	99.7	104.8	106.9
1.5K	121.3	116.6	102.5	99.3	108.9	104.4	113.7
2K	115.6	116.8	104.5	100.9	102.4	101.6	112.4
2.5K	116.3	114.4	102.5	99.6	102.6	103.6	111.9
3.15K	124.3	122.3	111.8	109.1	112.0	112.0	121.6
4K	121.5	118.9	108.4	105.6	108.6	108.4	117.9
5K	118.1	114.8	102.0	98.4	103.0	102.9	111.7
6.3K	118.6	116.6	103.1	98.5	103.6	105.4	113.3
8K	117.7	116.6	103.0	99.3	103.2	105.1	112.7
10K	114.3	114.6	99.5	95.1	100.8	100.7	110.5
12.5K	104.2	104.3	91.8	89.6	91.7	95.3	98.9
160	107.2	106.1	96.0	94.1	93.6	94.8	102.1
200	110.5	109.3	97.0	95.2	96.7	98.8	102.6
250	113.4	110.8	98.3	95.9	98.5	99.1	105.9
315	121.8	117.6	102.7	99.5	102.8	107.2	109.8
400	123.3	120.8	108.0	104.8	110.5	108.1	117.5
500	126.5	124.4	113.7	111.0	114.0	113.9	123.4
630	122.0	120.8	106.9	102.7	107.5	108.9	117.1
800	130.1	127.8	115.9	112.9	116.6	116.7	125.4
1K	123.9	121.0	108.2	105.1	109.1	109.8	116.9
1.25K	130.6	128.3	116.5	113.8	117.3	117.2	126.1
1.5K	144.6	142.7	131.1	128.2	131.5	131.8	140.5

YF-12 BEAL TEST 3/26/80

08:25 JUN 25 '80

TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 16

6200 RPM

RUN	121	122	123	124	125	126	127
FREQ (Hz)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.5	101.0	87.8	86.5	87.8	90.6	95.5
63	100.0	97.9	86.0	83.5	87.5	92.2	93.1
80	100.5	100.2	88.4	85.8	88.0	89.5	95.6
100	99.4	101.0	89.1	87.0	88.0	89.6	95.2
125	103.6	100.6	91.3	89.4	89.5	90.0	97.7
160	103.9	102.9	93.9	92.1	89.8	92.3	99.2
200	102.4	104.9	93.0	91.6	91.5	93.5	97.2
250	105.2	104.4	92.1	90.4	91.9	94.3	98.9
312	108.6	104.7	91.2	88.8	93.8	95.6	98.5
400	104.4	103.6	89.6	87.5	92.5	92.3	98.8
500	106.9	104.6	90.8	88.1	92.1	92.9	99.5
630	110.8	108.8	95.6	93.3	96.4	96.9	102.1
800	113.7	108.7	97.1	95.7	99.3	99.5	101.7
1K	113.9	112.7	94.7	92.6	97.6	100.0	104.2
1.25K	120.2	116.5	98.5	96.6	102.5	103.5	108.2
1.6K	120.3	116.1	101.2	98.6	109.5	105.7	112.2
2K	117.5	116.9	102.4	99.2	103.2	102.1	112.1
2.5K	116.9	116.1	101.3	97.9	101.8	102.1	111.1
3.15K	121.6	121.1	107.6	105.4	108.2	108.6	121.4
4K	120.9	119.7	107.0	104.6	106.9	107.1	120.2
5K	116.2	114.8	100.1	96.7	102.2	101.4	112.2
6.3K	116.6	116.5	100.6	96.2	101.9	102.2	112.4
8K	116.0	117.4	101.0	97.3	102.2	102.7	113.1
10K	113.2	114.1	97.0	93.7	100.2	98.4	110.6
125	104.5	104.6	92.3	90.2	92.6	95.7	99.7
125	107.5	106.4	96.6	94.8	93.9	95.6	102.4
250	110.9	109.4	96.9	95.2	97.3	99.3	103.0
500	112.9	111.0	97.6	95.2	98.9	99.4	105.1
1K	121.8	118.5	101.8	100.0	105.0	106.2	110.3
2K	123.3	121.1	106.4	103.4	111.0	108.4	116.6
4K	124.9	124.1	110.7	108.3	111.2	111.4	124.1
8K	120.3	121.0	104.6	100.7	106.3	106.2	116.9
LP=8	129.2	127.8	113.5	110.9	115.4	115.0	125.7
SIL	123.3	121.2	106.3	103.9	109.1	108.6	117.0
SDBA	129.7	128.3	114.0	111.4	116.0	115.4	126.5
PNOB	143.2	142.3	128.3	125.8	129.4	129.6	140.5

YF-12 BEAL TEST 3/26/80
 08:25 JUN 25/80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 17
 6300 RPM

RUN	128	129	130	131	132	133	134
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.2	100.4	88.2	87.1	88.4	90.6	95.3
63	100.0	97.0	87.1	84.6	88.2	92.3	93.3
80	100.7	100.7	89.4	86.5	88.7	90.4	95.9
100	100.0	101.1	89.4	87.0	89.1	90.2	95.7
125	104.1	101.3	91.7	89.7	90.2	90.7	98.4
160	104.2	103.1	94.0	92.2	90.4	92.8	99.4
200	102.7	105.2	93.6	92.2	92.2	93.8	98.2
250	105.1	104.7	92.6	90.9	92.2	94.6	99.2
315	107.4	104.6	92.5	89.8	94.3	95.3	99.4
400	105.0	104.4	90.6	88.4	92.8	92.8	99.1
500	107.8	105.2	92.1	89.4	92.7	93.2	99.9
630	110.1	107.6	92.8	91.3	95.0	97.4	101.1
800	113.1	110.2	93.8	93.8	96.5	98.6	102.4
1K	118.7	113.5	98.1	94.9	99.6	103.6	108.1
1.25K	120.6	118.0	101.3	98.9	100.7	106.3	109.8
1.6K	120.2	116.7	102.6	100.3	109.6	106.0	112.7
2K	119.0	116.5	103.9	101.5	103.3	102.4	113.5
2.5K	117.0	115.6	103.3	100.1	101.0	103.0	112.0
3.15K	122.8	121.7	106.8	105.3	108.2	110.5	121.4
4K	123.6	122.9	108.2	106.5	109.3	111.4	122.8
5K	116.8	113.9	101.8	98.5	102.8	103.2	112.4
6.3K	116.8	115.7	102.5	97.9	102.4	103.5	112.4
8K	117.9	116.8	103.7	99.4	102.7	104.6	114.2
10K	113.4	113.9	98.4	94.5	99.7	99.9	110.8
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63	104.5	104.4	93.1	91.0	93.2	95.9	99.8
125	107.9	105.7	96.9	94.9	94.7	96.2	102.9
250	110.2	109.6	97.7	95.9	97.8	99.4	103.7
500	112.9	110.7	96.7	94.6	98.4	99.8	104.9
1K	123.2	119.8	103.5	101.2	104.0	108.6	112.5
2K	123.7	121.1	108.1	105.5	111.0	108.9	117.5
4K	126.7	125.8	111.1	109.3	112.3	114.4	125.4
8K	121.2	120.4	106.8	102.5	106.6	107.9	117.5
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LP-8	130.3	128.7	114.5	112.1	115.9	117.1	126.9
SIL	124.5	122.2	107.6	105.3	109.1	110.6	118.5
00BA	130.9	129.3	115.0	112.7	116.5	117.6	127.7
PADB	144.6	143.4	129.2	127.0	130.1	131.8	141.7
*STOP 0							

YF-12 BEAL TEST 3/26/80
 08:35 JUN 25/80 TEST 11274
 YF-12 BEAL TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 18
 6400 RPM

RUN	135	136	137	138	139	140	141
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	98.1	100.1	89.7	88.8	90.7	91.3	96.1
63	100.7	97.8	89.0	86.8	89.6	93.7	94.8
80	101.9	101.7	90.7	88.0	90.6	91.8	97.0
100	101.3	101.9	90.7	88.3	90.5	91.7	96.7
125	104.7	102.5	93.4	91.4	91.9	92.0	99.6
160	105.2	103.9	95.5	93.8	92.0	94.2	100.7
200	103.4	105.6	95.1	93.7	93.3	95.1	99.8
250	105.2	105.1	93.6	92.0	93.6	96.0	100.1
315	107.2	105.8	93.4	90.9	95.4	96.3	99.8
400	105.5	105.1	92.0	89.8	94.0	93.9	100.3
500	107.4	105.9	92.3	90.0	94.1	95.0	100.7
630	111.4	108.5	93.8	91.3	95.4	98.3	102.2
800	118.1	111.0	94.8	94.1	98.0	100.6	102.9
1K	123.9	112.1	98.0	93.8	100.0	100.2	107.5
1.25K	123.0	116.8	101.4	99.4	102.6	104.4	109.7
1.6K	121.7	118.1	103.3	100.7	111.7	106.5	111.5
2K	119.8	115.2	104.3	101.6	105.5	103.6	112.4
2.5K	118.7	116.0	103.2	100.6	101.8	103.3	112.0
3.15K	121.9	117.0	104.8	102.7	106.4	109.8	115.6
4K	126.0	120.4	109.0	106.6	110.1	113.6	120.3
5K	117.5	118.2	102.1	99.3	103.8	103.9	111.3
6.3K	116.7	115.3	102.2	98.1	103.1	103.9	111.3
8K	116.5	115.7	102.0	98.8	102.9	105.0	112.2
10K	113.0	112.9	98.7	94.6	100.3	100.2	109.6
125	105.3	104.9	94.6	92.7	95.1	97.1	100.8
160	108.8	107.6	98.4	96.5	96.3	97.6	104.1
200	110.3	110.3	98.9	97.1	98.9	100.6	104.7
250	113.6	111.5	97.6	95.2	99.3	100.9	105.9
315	127.1	118.9	103.6	101.3	105.4	106.9	112.3
400	125.0	121.4	108.4	105.8	113.0	109.5	116.8
500	127.9	123.1	111.0	108.6	112.3	115.4	122.0
630	120.5	119.6	106.0	102.3	107.0	108.2	115.9
800	132.0	127.3	114.5	111.9	116.8	117.7	124.3
1K	126.6	121.1	107.7	105.2	110.2	110.6	117.0
1.25K	132.6	127.7	114.9	112.3	117.4	118.3	125.0
1.6K	146.2	141.8	129.6	127.0	130.9	133.0	139.7

YF-12 BEAL TEST 3/26/80

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TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN 19

6500 RPM

RUN	142	143	144	145	146	147	148
FREQ (Hz)	TR 1 B1 40° DEG	TR 2 B2 0° DEG	TR 3 B3 0° DEG	TR 4 B4 0° DEG	TR 5 B5 20° DEG	TR 6 B6 40° DEG	TR 8 B8 0° DEG
50	98.0	99.8	90.8	89.8	92.1	92.1	97.2
63	101.0	98.5	90.9	88.9	91.7	95.1	96.3
80	103.1	102.5	93.0	90.3	92.5	93.7	98.6
100	103.0	103.2	92.6	90.3	92.6	93.4	98.6
125	105.8	103.9	95.4	93.7	94.0	93.7	101.7
160	106.7	105.9	97.4	95.7	94.4	96.5	102.5
200	104.9	106.9	97.2	95.9	95.4	97.3	101.9
250	106.0	106.2	94.7	93.1	95.6	97.5	101.6
315	107.8	106.6	94.0	91.8	96.9	97.5	101.8
400	106.7	106.4	93.1	91.1	95.1	95.5	101.9
500	109.0	107.2	93.5	91.3	95.6	95.8	102.3
630	113.9	108.8	94.5	92.6	96.7	99.2	102.8
800	121.5	114.1	96.5	94.0	100.4	104.1	103.8
1K	119.9	113.2	96.6	95.1	98.4	105.8	105.2
1.25K	120.7	115.6	99.1	97.3	103.4	107.1	107.9
1.6K	120.5	117.1	102.8	101.7	111.2	107.4	112.4
2K	118.1	118.2	104.5	102.4	107.2	104.3	113.1
2.5K	119.2	115.1	103.7	100.9	103.5	103.8	110.8
3.15K	121.5	117.1	103.3	101.0	105.8	109.9	112.4
4K	124.6	119.5	108.0	104.8	109.6	113.8	118.2
5K	117.0	116.2	102.0	98.8	103.3	104.1	110.7
6.3K	116.5	115.1	101.6	97.3	102.9	104.4	110.5
8K	117.1	115.1	101.5	98.3	102.2	105.2	110.9
10K	112.9	112.4	98.1	93.4	99.7	100.3	108.7
12.5K	105.9	105.4	96.5	94.5	96.9	98.6	102.2
16K	110.2	109.2	100.3	98.5	98.5	99.5	106.0
20K	111.2	111.3	100.3	98.7	100.8	102.2	106.6
25K	115.7	112.3	98.5	96.5	100.6	101.9	107.1
31.5K	125.5	119.2	102.3	100.5	106.0	110.6	110.8
40K	124.1	121.7	108.5	106.4	113.2	110.2	117.0
50K	126.8	122.6	110.0	107.0	111.8	115.6	119.8
63K	120.6	119.2	105.4	101.6	106.6	108.5	114.9
LP-8	131.1	127.3	114.1	111.5	116.8	118.5	123.1
SIL	125.5	121.2	107.0	104.6	110.3	112.1	115.8
90dB	131.5	127.7	114.3	111.7	117.3	118.9	123.5
100dB	145.4	141.5	129.1	126.2	130.9	133.6	138.3

YF-12 SEAL TEST 3/26/80

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TEST 11274

YF-12 BEALE TEST 3/26/80

BARE ENGINE WITH BELLMOUTH

RUN-20

6600 RPM

RUN	149	150	151	152	153	154	155
FREQ (Hz)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	99.1	100.3	92.2	91.8	94.7	93.8	98.4
63	102.0	99.4	93.4	91.4	93.8	96.6	98.1
80	104.3	104.1	95.2	92.6	95.3	95.4	100.0
100	104.9	104.5	94.6	92.3	94.7	96.2	100.3
125	107.6	106.0	97.6	95.9	96.6	96.1	103.7
160	108.8	107.9	99.6	97.9	96.4	98.3	104.7
200	107.5	109.4	99.7	98.4	98.0	99.7	104.6
250	107.9	107.8	96.2	94.6	98.2	99.7	103.5
315	109.2	107.4	95.3	93.3	99.0	99.1	103.7
400	108.4	108.0	94.9	92.9	97.2	97.0	103.4
500	110.8	109.0	95.0	92.8	97.4	97.5	103.9
630	114.6	111.2	96.9	93.5	97.7	99.8	104.9
800	119.1	118.9	96.8	94.6	99.9	102.4	104.9
1K	121.8	113.2	97.0	94.6	100.2	102.8	110.5
1.25K	122.2	116.5	99.8	97.3	103.7	107.6	110.0
1.6K	119.6	117.1	101.7	99.7	109.9	106.7	113.2
2K	118.5	118.1	103.0	100.5	105.7	104.6	112.0
2.5K	116.3	115.6	102.2	99.4	102.0	101.5	109.5
3.15K	120.3	117.2	102.0	99.8	105.2	105.9	112.1
4K	129.2	122.5	107.4	103.3	108.6	108.0	120.8
5K	117.1	115.8	100.8	97.4	102.2	102.2	109.9
6.3K	116.3	114.9	100.2	96.2	102.3	101.7	109.9
8K	115.8	114.2	99.7	96.7	101.4	101.6	110.2
10K	112.4	112.2	96.3	92.1	98.6	97.2	108.1
125	107.1	106.6	98.5	96.7	99.4	100.2	103.7
250	112.2	111.1	102.5	100.7	100.8	101.8	108.0
500	113.0	113.0	102.3	100.8	103.2	104.3	108.7
1K	116.8	114.3	100.5	97.8	102.2	103.1	108.9
2K	126.0	121.6	102.9	100.4	106.4	109.7	113.8
4K	123.1	121.8	107.1	104.7	111.8	109.5	116.6
8K	129.9	124.3	109.2	105.6	110.9	110.8	121.6
10K	119.9	118.6	103.8	100.2	105.8	105.4	114.3
LP-8	132.5	128.5	113.6	110.9	116.2	116.1	124.3
SIL	126.3	122.6	106.4	103.6	109.7	110.0	117.4
GOBA	133.1	128.7	113.4	110.4	116.4	116.1	124.7
PNOB	147.8	143.3	128.6	125.3	130.4	130.3	139.9

YF-12 BEAL TEST 3/26/80
 08:45 JUN 25, '80 TEST 11274
 YF-12 BEALE TEST 3/26/80
 BARE ENGINE WITH BELLMOUTH
 RUN 21
 6700 RPM

RUN	156	157	158	159	160	161	162
FREQ (HZ)	TR 1 B1 40. DEG	TR 2 B2 0. DEG	TR 3 B3 0. DEG	TR 4 B4 0. DEG	TR 5 B5 20. DEG	TR 6 B6 40. DEG	TR 8 B8 0. DEG
50	101.8	102.8	98.1	97.4	100.6	98.6	102.4
63	105.8	102.6	100.0	98.1	99.7	101.8	102.0
80	108.9	108.2	101.6	99.4	102.0	100.3	104.7
100	109.9	109.9	101.2	98.7	101.1	102.0	105.5
125	113.5	113.0	106.4	104.7	104.0	103.9	111.5
160	116.1	115.2	108.2	106.3	104.4	107.4	113.0
200	114.5	114.8	104.8	103.0	106.3	108.0	110.9
250	114.3	113.9	103.1	101.6	106.6	107.0	110.9
315	115.6	113.5	103.5	102.1	107.0	106.6	111.5
400	116.0	116.0	103.3	101.6	106.0	105.7	111.2
500	116.4	116.8	102.1	99.7	106.0	104.7	111.4
630	119.3	117.0	103.1	100.0	106.3	105.5	112.0
800	122.7	121.6	103.5	100.3	107.2	106.2	112.1
1K	125.5	118.9	103.0	99.9	106.0	106.3	112.3
1.25K	124.8	120.7	104.1	100.9	106.7	107.5	112.0
1.6K	120.8	118.1	102.6	100.2	110.0	107.3	112.8
2K	120.0	120.1	103.9	101.0	107.9	107.2	113.2
2.5K	117.8	117.8	102.6	99.9	105.2	105.0	111.1
3.15K	120.7	117.4	102.7	100.4	105.5	105.5	111.7
4K	127.0	122.4	106.3	102.8	108.9	106.4	117.0
5K	117.7	116.2	100.4	97.4	103.1	102.9	110.8
6.3K	116.1	115.4	100.2	96.6	103.1	102.4	110.4
8K	115.8	114.1	99.0	96.8	102.1	101.4	110.1
10K	112.3	111.6	94.9	91.5	98.9	96.8	107.9
125	111.1	110.1	104.9	103.2	105.6	105.2	108.0
160	118.6	118.0	110.9	109.0	108.2	109.8	115.8
200	119.6	118.9	108.6	107.0	111.4	112.0	115.9
250	122.3	121.4	107.6	105.3	110.9	110.1	116.3
315	129.3	125.3	108.3	105.2	111.4	111.5	116.9
400	124.5	123.5	107.9	105.1	112.9	111.4	117.3
500	128.3	124.3	108.6	105.5	111.2	109.9	118.8
630	119.8	118.7	103.3	100.3	106.5	105.6	114.4
LP-8	133.5	130.8	117.1	114.7	119.4	119.0	125.2
SIL	127.4	124.4	108.3	105.3	111.8	110.9	117.7
ODBA	133.5	130.5	114.8	111.9	118.3	117.4	124.2
PNDB	147.8	144.7	129.9	126.9	132.6	131.4	139.3
*STOP 0							

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