MODEL: 2450H

Frequency Response:	See attached curve, page 2
Tolerance:	±3/4 dB 500 - 3,000
	±1.5 dB 3001 - 5,000
	±2.0 dB 5001 - 10,000
	±2.0 dB on env*>10,000
Total Impedance Curve:	See attached Curve, page 2
Motional Impedance Curve:	See attached curve, page 2
High Frequency Curve:	See attached curve, page 3
Applicable Thiele-Small Par.:	See page 4
Voice Coil	
DC Resistance:	4.1Ω ± 8%
Wire:	Aluminum Ribbon
Size:	0.0056" x 0.014"
Configuration:	21.5 turns edge wound
Coil size:	3.904" ID 0.125" high
Wire length:	266" (6.75 meters)
Flux Density:	1.875 Tesla
Coupling Factor (BL):	12.7 N/Amp
Minimum Impedance:	6Ω
Polarity:	Positive to ~~Black~~ Black gives Positive pressure output
Power Test:	50 Watts (17.3 volts) pink noise 500-5000 Hz - 2 hours

Design Engr [signature]

* Envelope over and under peak excursions

****

MAGNITUDE vs FREQUENCY

2450H ON 2" TUBE, 2 WATTS (4.00 VOLTS)

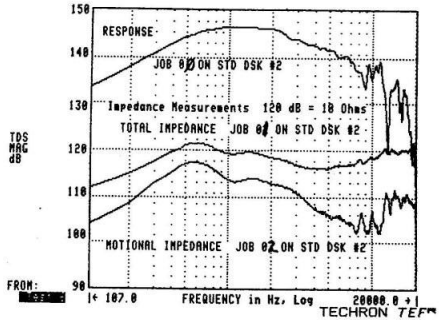
****

DATE: 9 MARCH 1992

OPERATOR(s): FANCHER M. MURRAY

LOCATION: JBL TEST LABORATORY NORTHRIDGE CA

DATA SOURCE: From Current Test



********** TEST PARAMETERS **********

Receive Delay = 0.4020 mSecs or 0.4522 Feet

SWEEP:

Start Freq.	= 107.0	Hz
Stop Freq.	= 20000.0	Hz
Sweep Time	= 3.97	Secs
Bandwidth	= 10.0	Hz
Sweeprate	= 5009.6	Hz/Sec

RESOLUTION:

Time	= 2.00	mSecs
Distance	= 2.25	Feet
Frequency	= 500.0	Hz

Best Freq. Resolution = Off

INPUT CONFIGURATION:

Non-Inv. Input	= On	
Inv. Input	= Off	
Integration	= None	

GAIN & GENERATOR:

Input Gain	= 12	dB
IF Gain	= 12	dB
Gen. Out.	= 0.60	Volts RMS

CALIBRATION:

Input Sensitivity	= 1.2500E-03	Volts RMS per Pascal
0 dB Ref. Value	= 2.0000E-05	Pascal
Propagation Speed	= 1125.00	Feet per Sec

REMARKS:

2450 EVALUATION FOR ENGINEERING DESIGN STD

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MAGNITUDE vs FREQUENCY

2450H ON 2" TUBE, 2 WATTS (4.00 VOLTS)

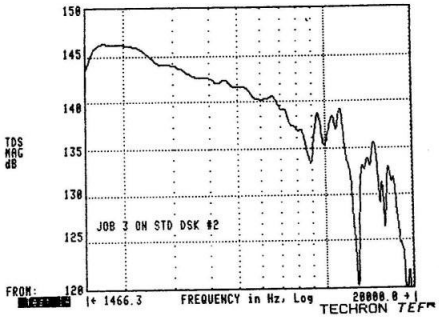
****

DATE: 9 MARCH 1992

OPERATOR(s): FANCHER M. MURRAY

LOCATION: JBL TEST LABORATORY NORTHRIDGE CA

DATA SOURCE: From Current Test



********** TEST PARAMETERS **********

Receive Delay = 0.4020 mSecs or 0.4522 Feet

SWEEP:

Start Freq.	= 1466.3	Hz
Stop Freq.	= 20000.0	Hz
Sweep Time	= 3.95	Secs
Bandwidth	= 9.4	Hz
Sweeprate	= 4696.5	Hz/Sec

RESOLUTION:

Time	= 2.00	mSecs
Distance	= 2.25	Feet
Frequency	= 500.0	Hz
Best Freq. Resolution	= Off	

INPUT CONFIGURATION:

Non-Inv. Input	= On
Inv. Input	= Off
Integration	= None

GAIN & GENERATOR:

Input Gain	= 12	dB
IF Gain	= 12	dB
Gen. Out.	= 0.60	Volts RMS

CALIBRATION:

Input Sensitivity	= 1.2500E-03	Volts RMS per Pascal
0 dB Ref. Value	= 2.0000E-05	Pascal
Propagation Speed	= 1125.00	Feet per Sec

REMARKS:

2450 EVALUATION FOR ENGINEERING DESIGN STD

APPLICABLE THIELE-SMALL PARAMETERS

F_s	568	hertz
R_e	4.1	ohms
R_{et}	7.1	ohms
S_d	78.54	square centimeters
X_{MAX}	0.5	millimeters
BL	12.7	newton÷amp (tesla·meter) (volt·sec÷meter)
M_m	3.2	gram
$\frac{(BL)^2}{2\pi R_e M_m}$	1956	hertz
L_e	0.120	millihenry
η_o	35	percent
Z_{min}	6	ohm
P_e	50	watts into Z_{min}