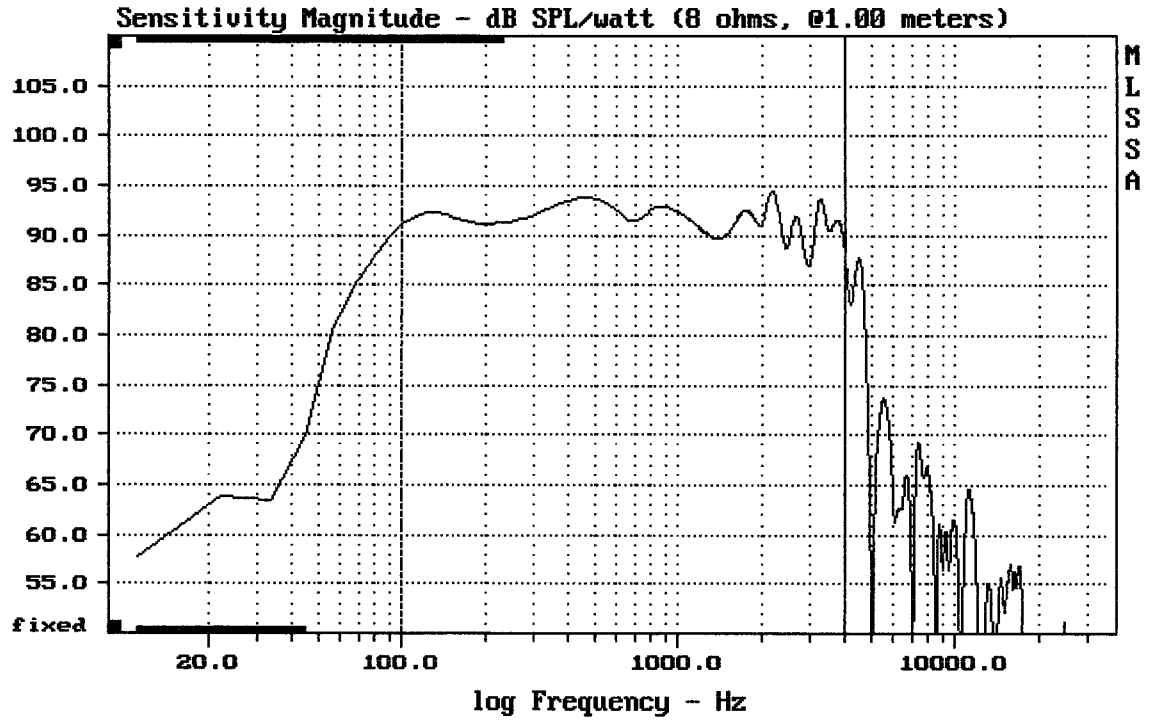
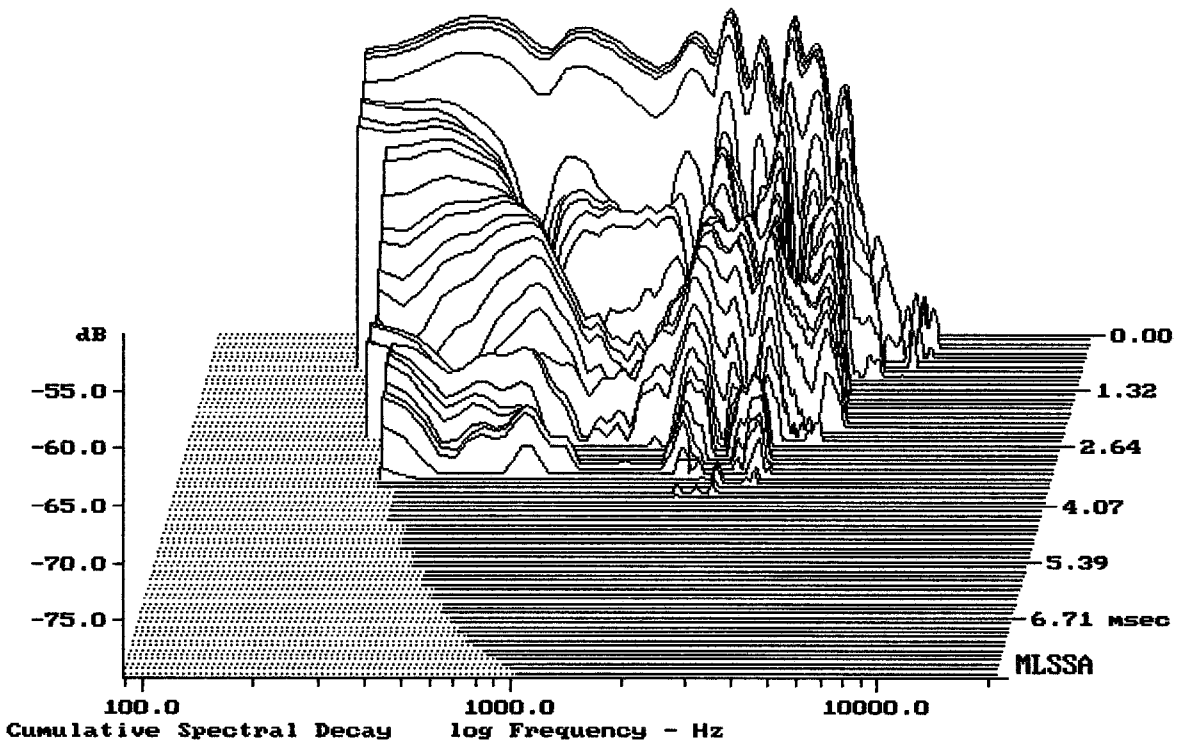


Level (100:4006 Hz) = 91.96 dB SPL/watt (8 ohms, @1.00 meters)

FANE SOVEREIGN 12-500LF

10-8-89 5:49 PM

MLSSA: Frequency Domain



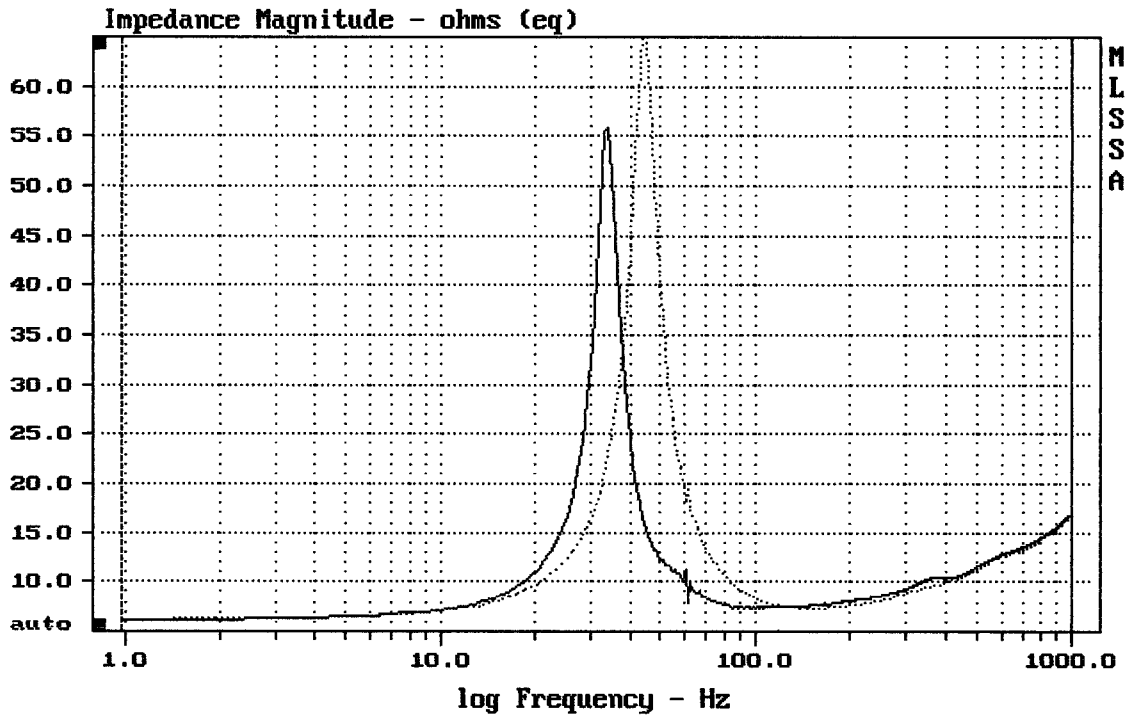
-78.79 dB, 2131 Hz (48), 3.300 msec (31)

MLSSA SPO 4.0D #960903-3057-3075 for Jiri Komon

Line	Parameter	Measured Data Value	Units	QC Limits
1	RMSE-free	0.62	Ohms	
2	Fs	44.32	Hz	
3	Re	6.10	Ohms[dc]	
4	Res	59.08	Ohms	
5	Qms	5.47		
6	Qes	0.56		
7	Qts	0.51		
8	L1	1.18	mH	
9	L2	1.81	mH	
10	R2	8.46	Ohms	
11	RMSE-load	0.81	Ohms	
12	Vas(Sd)	103.32	liters	
13	Mms	49.42	grams	
14	Cms	261	µM/Newton	
15	Bl	12.19	Tesla-M	
16	SPLref(Sd)	93.9	dB[Re]	
17	Rub-index	0.05		

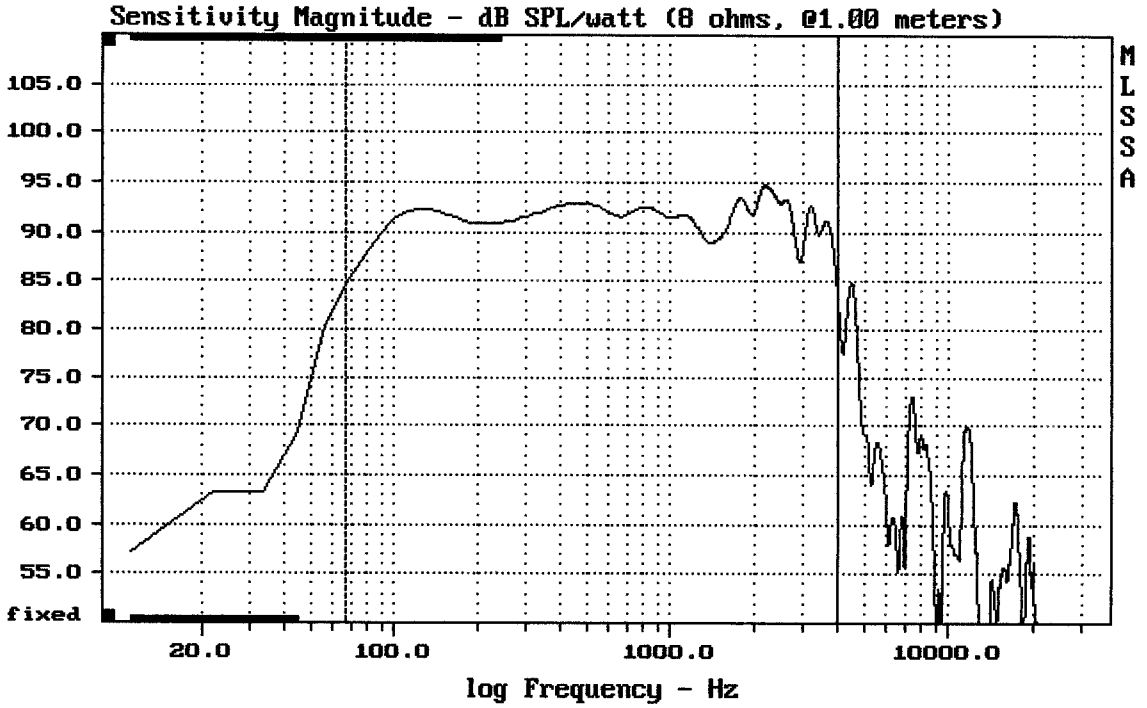
Method: Mass-loaded (40.00 grams) Area (Sd): 530.93 sq cm
DCR mode: Measure (-0.14 ohms) QC file: CLOSED
Analysis successful. Shift in Fs = -23.9% (-20% to -50% is recommended).

FANE SOVEREIGN 12-500LF MLSSA: Parameters



mean: 12.34, rms: 13.58, std: 5.675, max: 65.6, min: 6.244

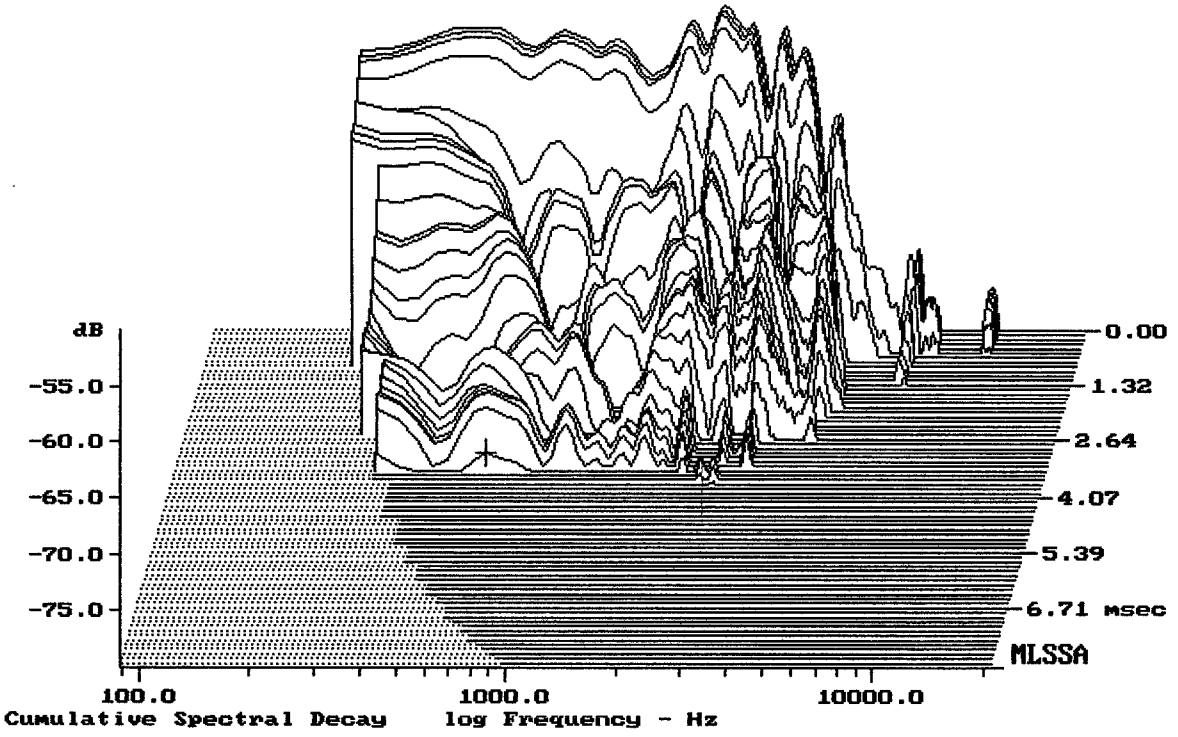
10-9-89 6:07 PM MLSSA: Frequency Domain



Level (67:3995 Hz) = 91.53 dB SPL/watt (8 ohms, @1.00 meters)

SOVEREIGN 12-500LF

MLSSA: Frequency Domain



-78.43 dB, 621 Hz (14), 3.410 msec (32)

MLSSA SPO 4.0D #960903-3057-3075

Measured Data QC Limits

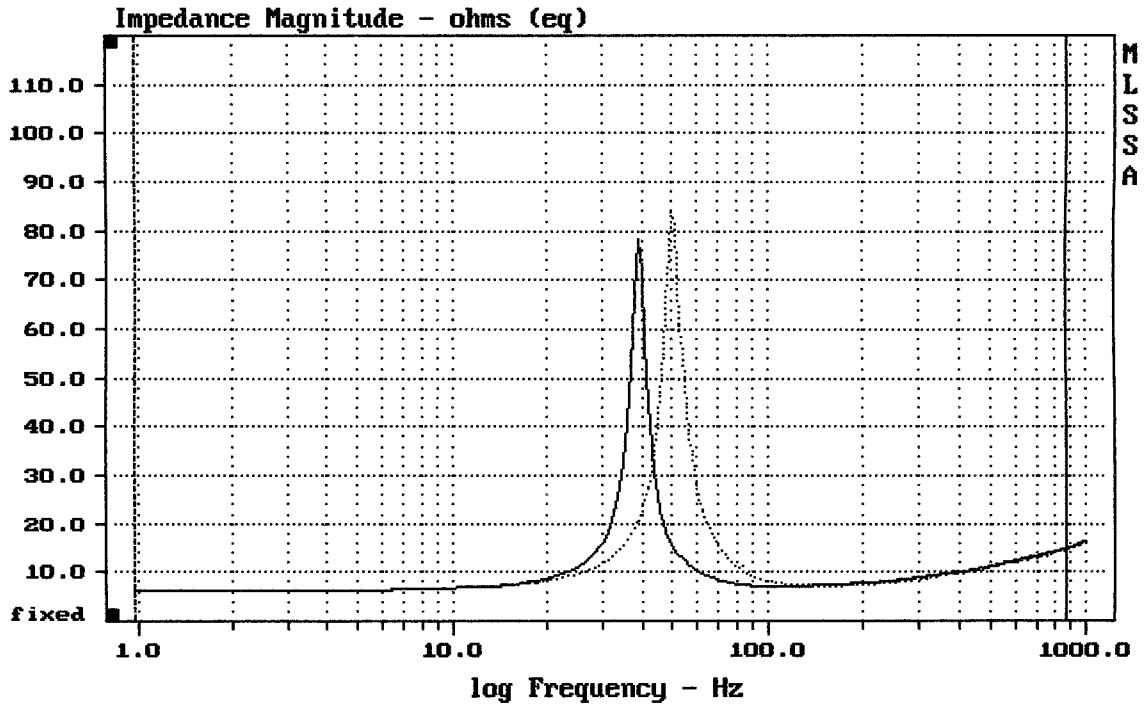
Line	Parameter	Value	Units
1	RMSE-free	0.49	Ohms
2	Fs	50.16	Hz
3	Re	6.11	Ohms[dc]
4	Res	75.80	Ohms
5	Qms	8.07	
6	Qes	0.65	
7	Qts	0.60	
8	L1	1.27	mH
9	L2	1.77	mH
10	R2	6.79	Ohms
11	RMSE-load	0.44	Ohms
12	Vas(Sd)	73.85	liters
13	Mms	53.97	grams
14	Cms	187	µM/Newton
15	Bl	12.64	Tesla-M
16	SPLref(Sd)	93.4	dB[Re]
17	Rub-index	0.00	

Method: Mass-loaded (40.00 grams) Area (Sd): 530.93 sq cm

DCR mode: Measure (-0.07 ohms) QC file: CLOSED

Analysis successful. Shift in Fs = -22.0% (-20% to -50% is recommended).

SOVEREIGN 12-500LF MLSSA: Parameters



mean: 11.66, rms: 13.5, std: 6.807, max: 83.69, min: 6.188

MLSSA: Frequency Domain