

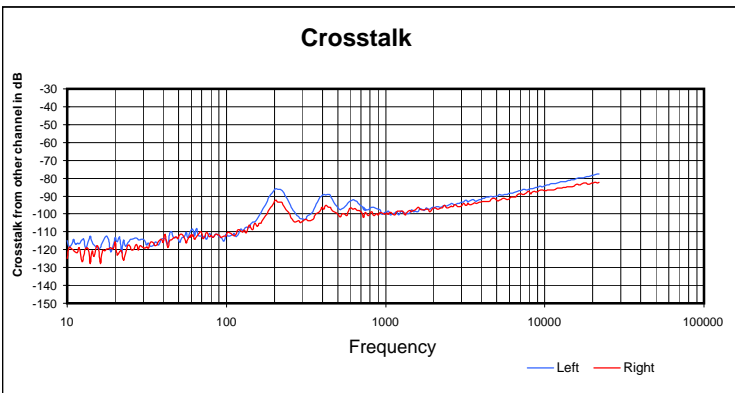
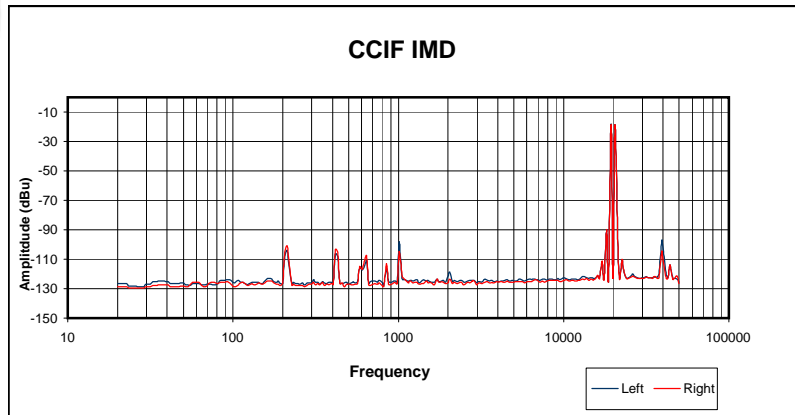
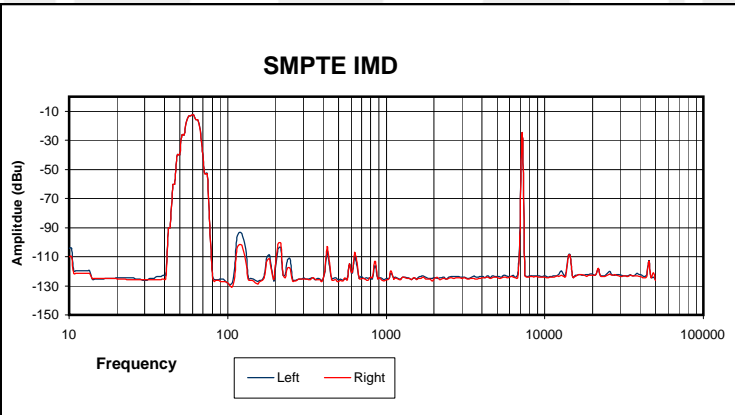
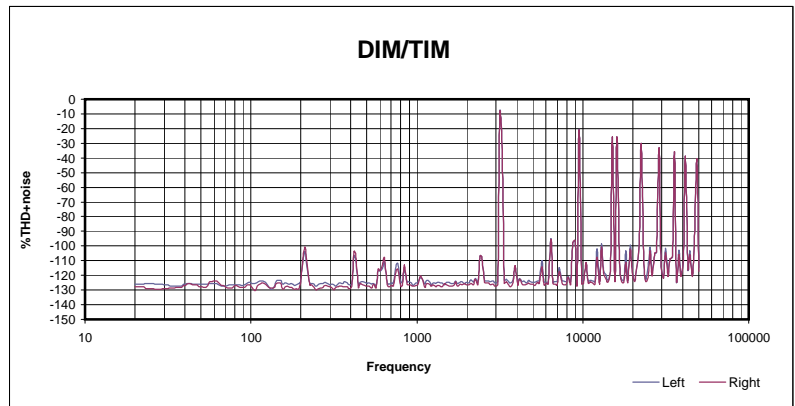
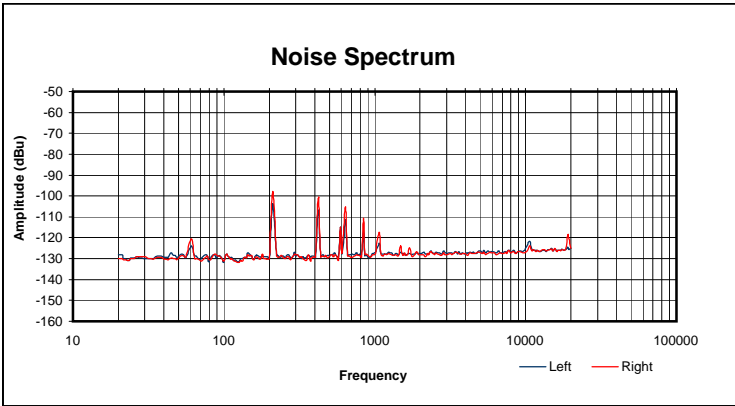
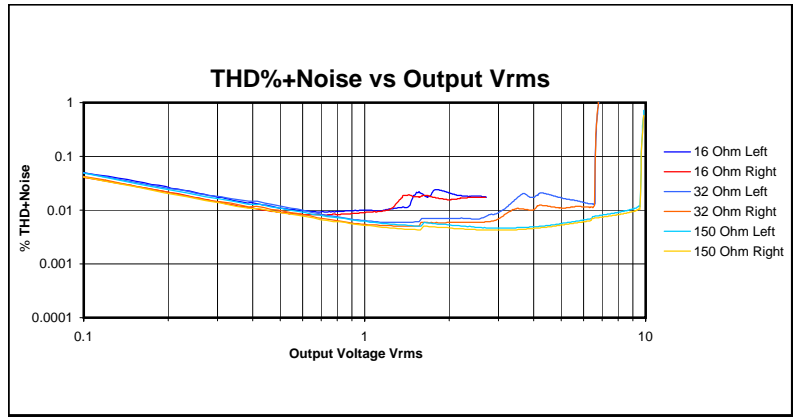
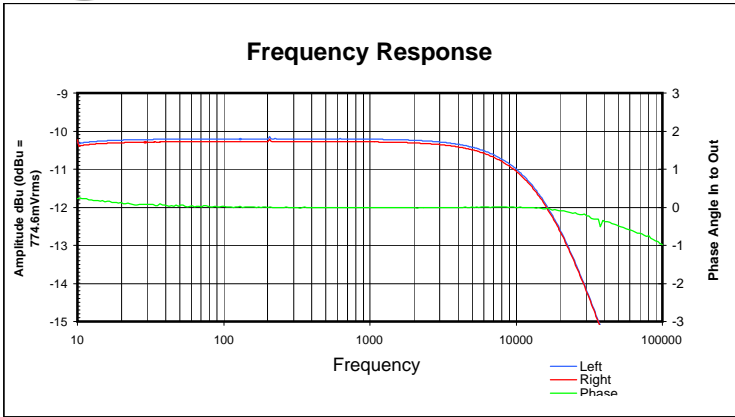
# Headphone Amplifier Measurement Datasheets

## February 2016

Those wishing to get headphone amplifiers measured should send all inquiries by email to:

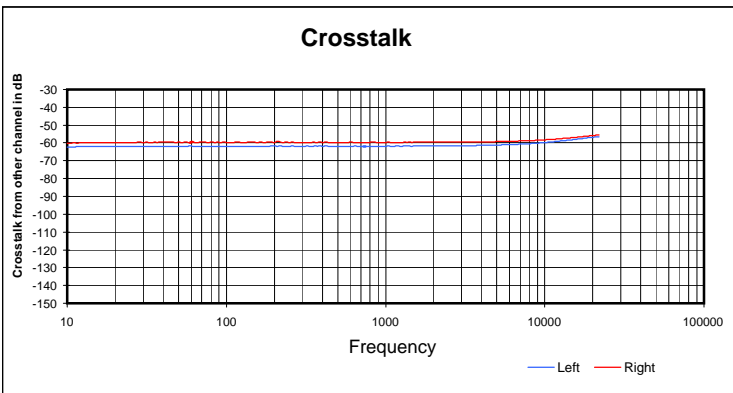
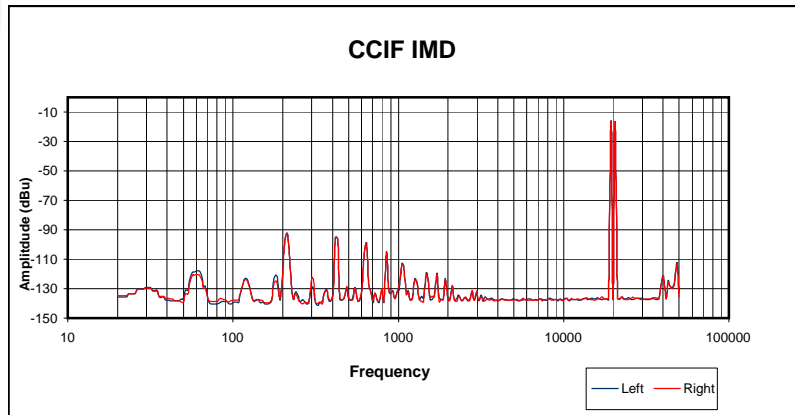
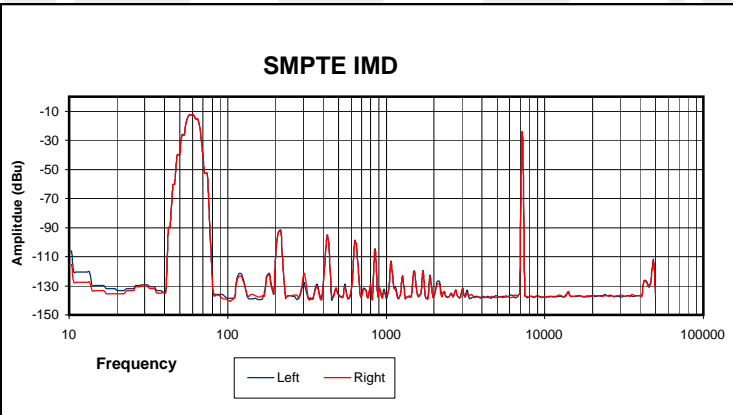
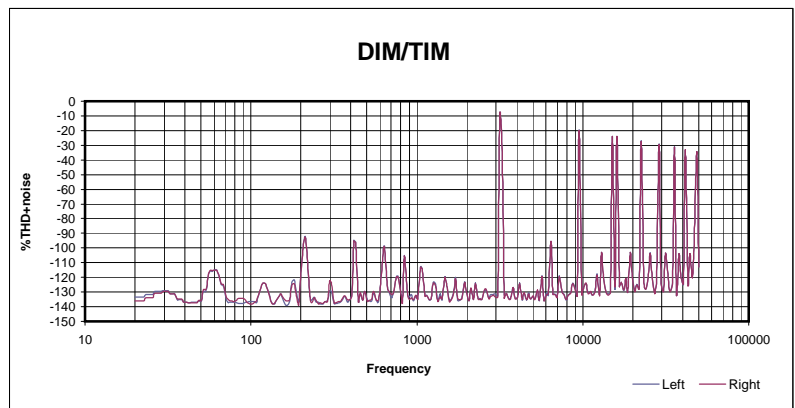
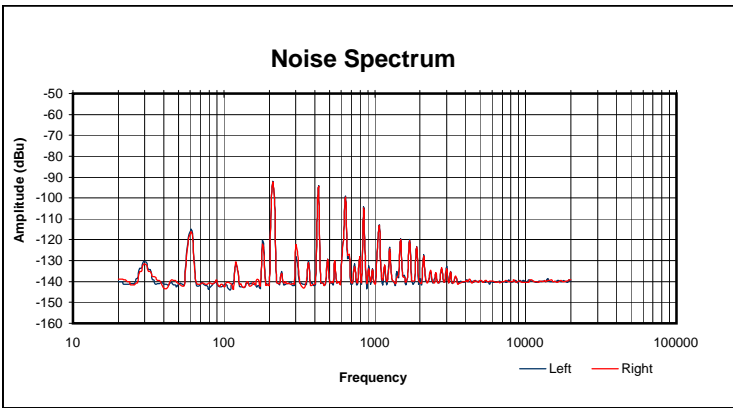
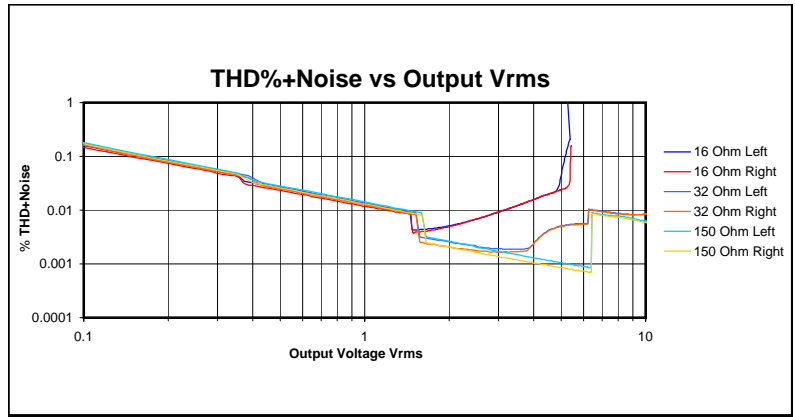
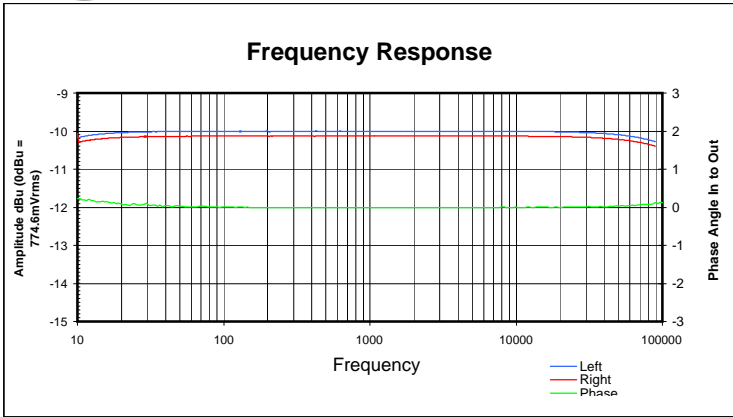
Tyll Hertsens  
InnerFidelity, Editor-in-Chief  
[tyll@tyllhertsens.com](mailto:tyll@tyllhertsens.com)





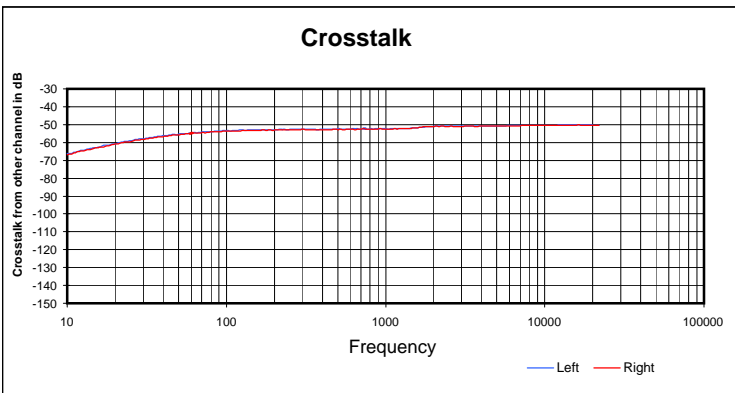
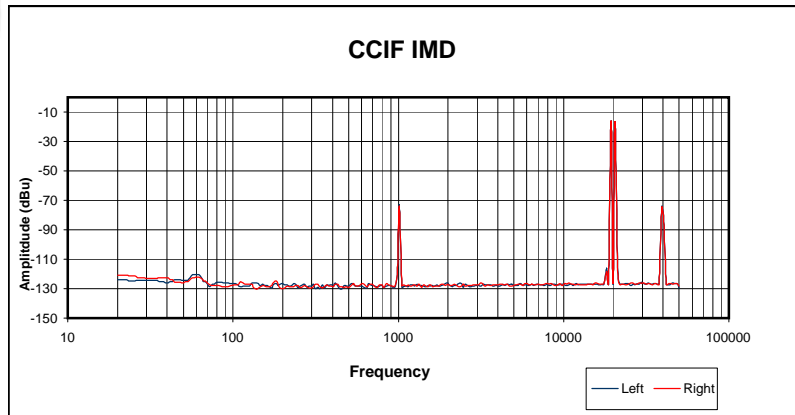
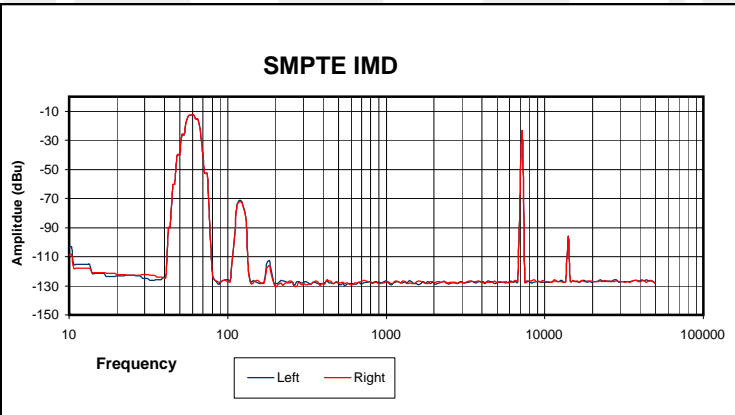
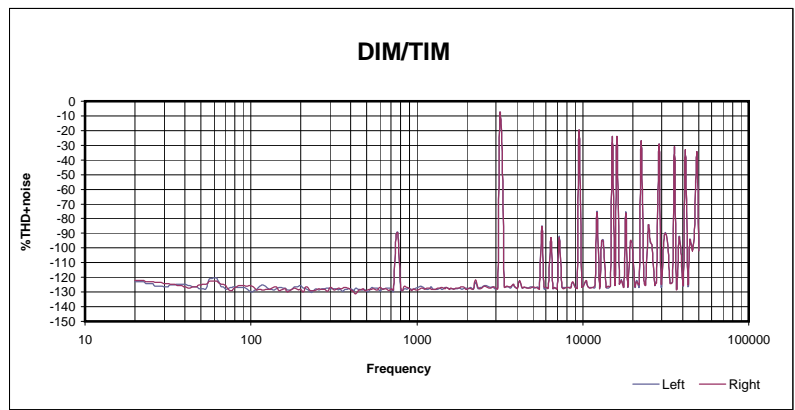
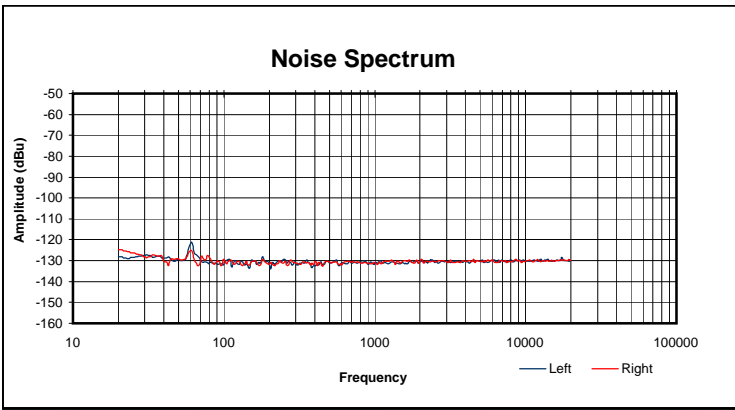
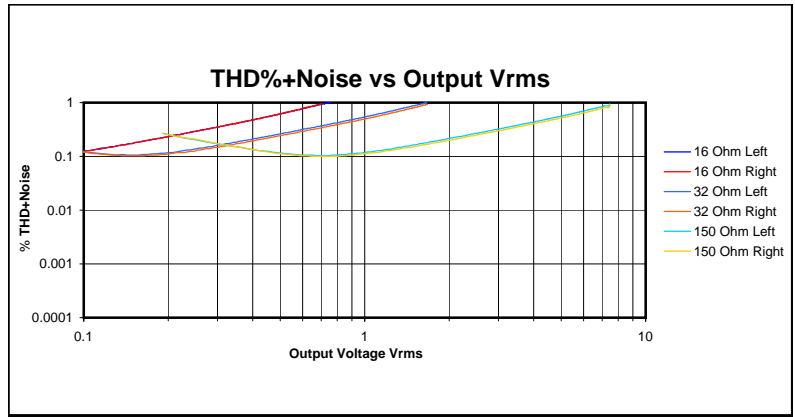
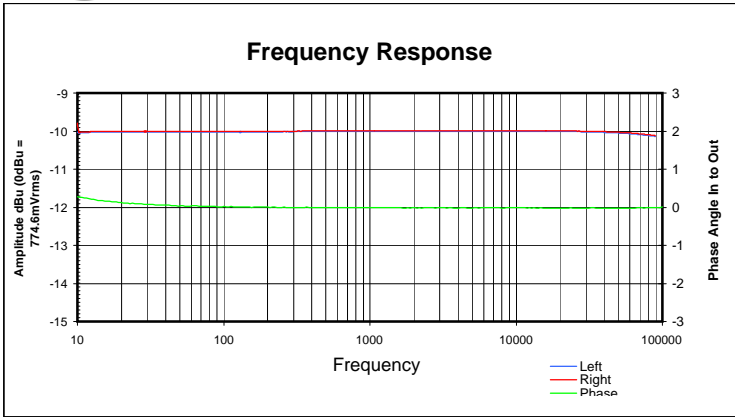
Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	0.8537	1.4268	0.6550
Volts @ 1% THD	3.6958	6.7570	9.9125
% THD+N 1kHz OdBu	0.0112	0.0088	0.0099
SMPTe IMD OdBu	0.0497	0.0322	0.0173
CCIF IMD OdBu	0.0220	0.0104	0.0027
DIM/TIM OdBu	0.0171	0.0157	0.0221
Gain in dB (low)		11.8568	
Noise @ Low Gain in mVrms		0.5794	
Gain in dB (medium)		0.0000	
Noise @ Medium Gain in mVrms		0.0000	
Gain in dB (high)		0.0000	
Noise @ High Gain in mVrms		0.0000	
Output Impedance		0.5612	
Channel Balance		0.0722	





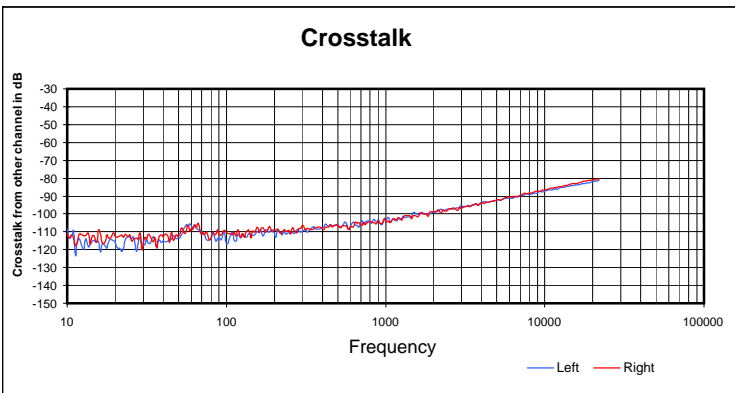
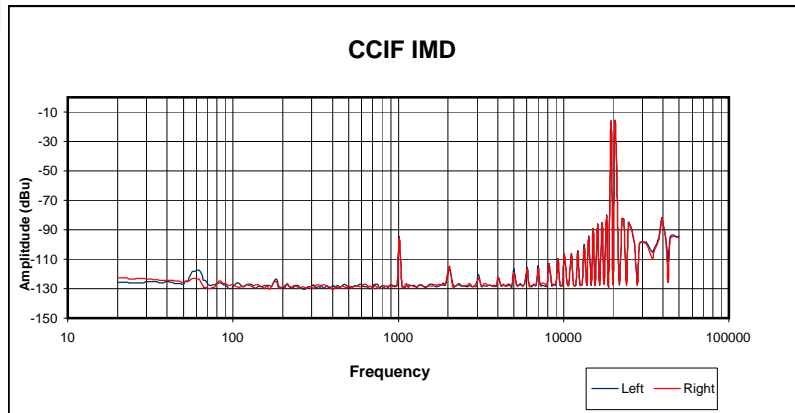
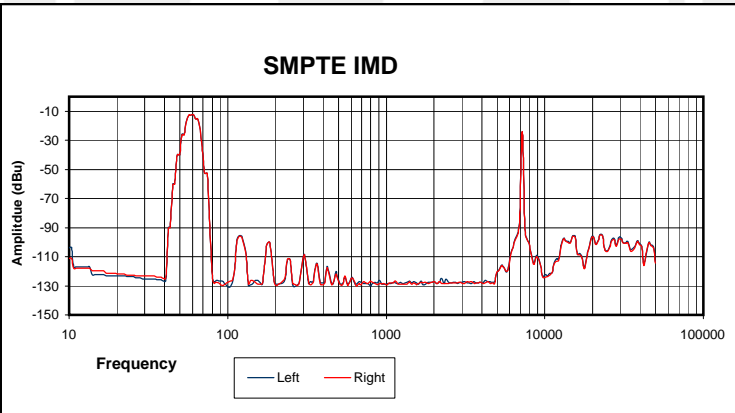
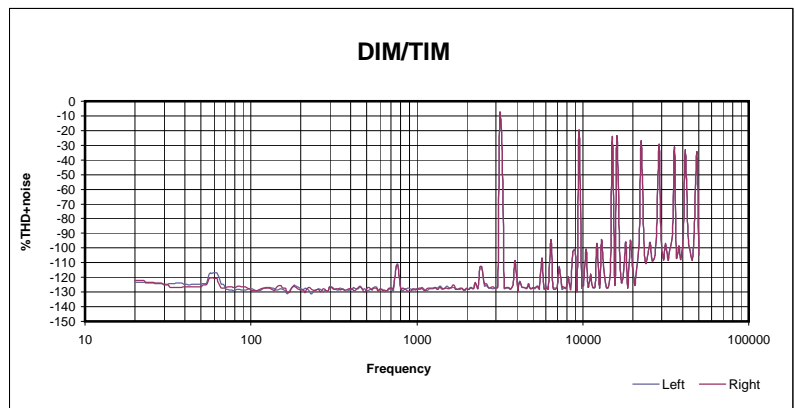
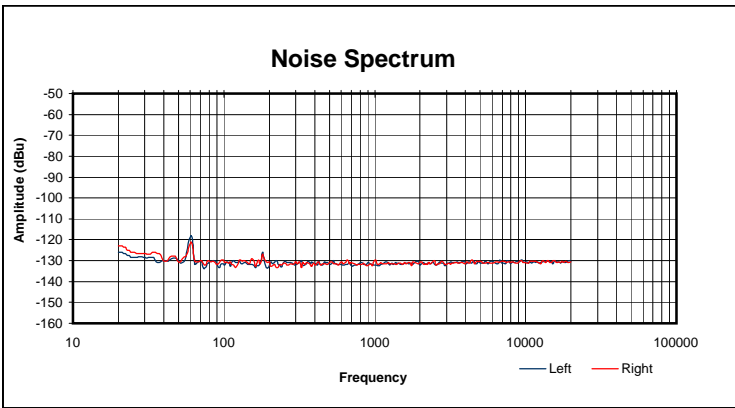
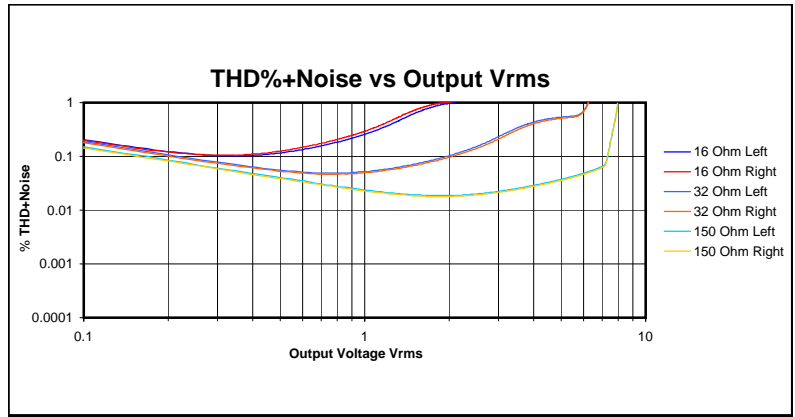
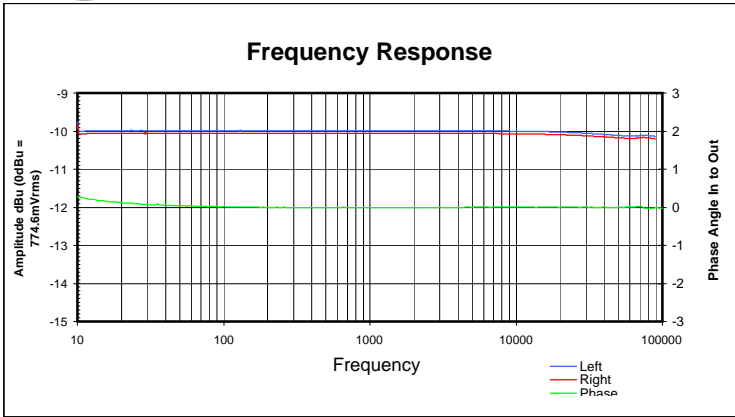
Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	1.5749	4.9310	1.1674
Volts @ 1% THD	5.0125	12.5615	13.2335
% THD+N 1kHz 0dBu	0.0166	0.0180	0.0194
SMPT E IMD 0dBu	0.0032	0.0030	0.0030
CCIF IMD 0dBu	0.0020	0.0020	0.0021
DIM/TIM 0dBu	0.0270	0.0283	0.0295
Gain in dB (low)		11.6588	
Noise @ Low Gain in mVrms		0.4746	
Gain in dB (medium)		0.0000	
Noise @ Medium Gain in mVrms		0.0000	
Gain in dB (high)		0.0000	
Noise @ High Gain in mVrms		0.0000	
Output Impedance		1.4217	
Channel Balance		0.1220	





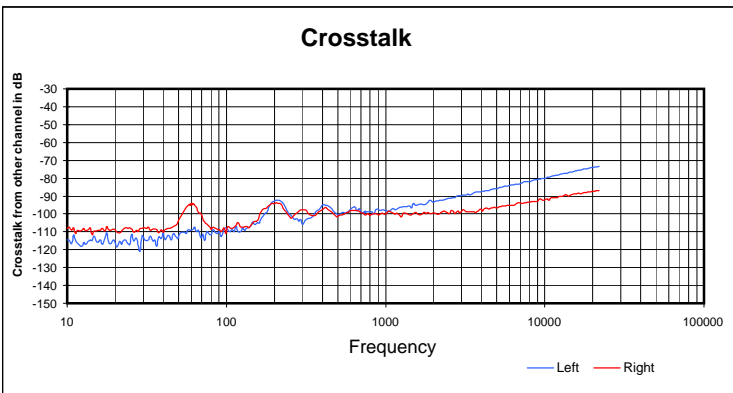
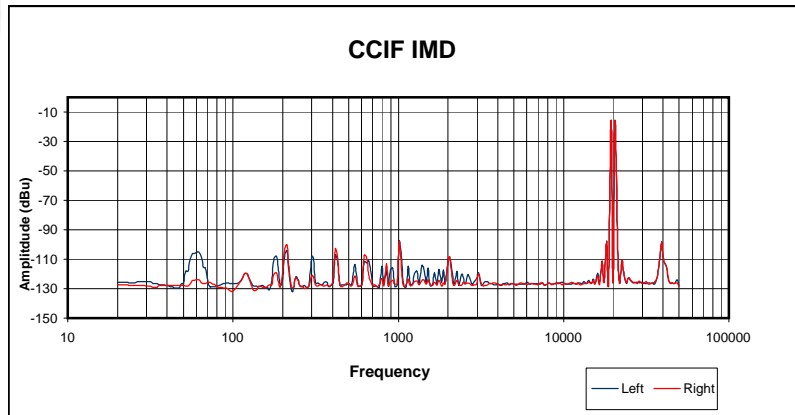
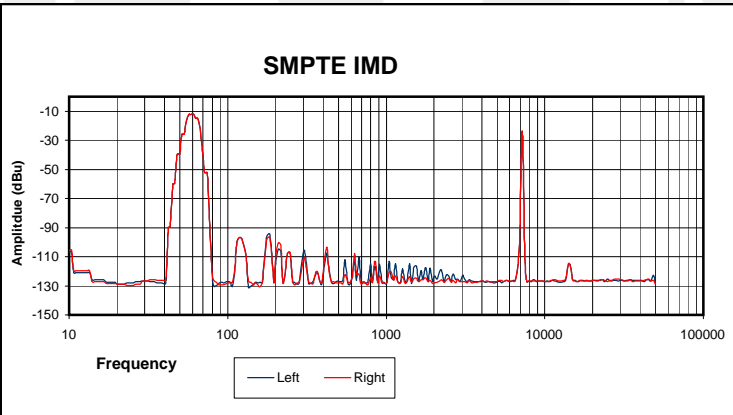
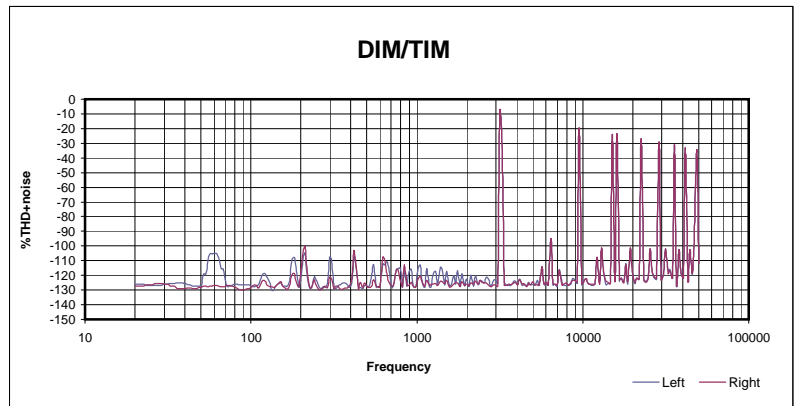
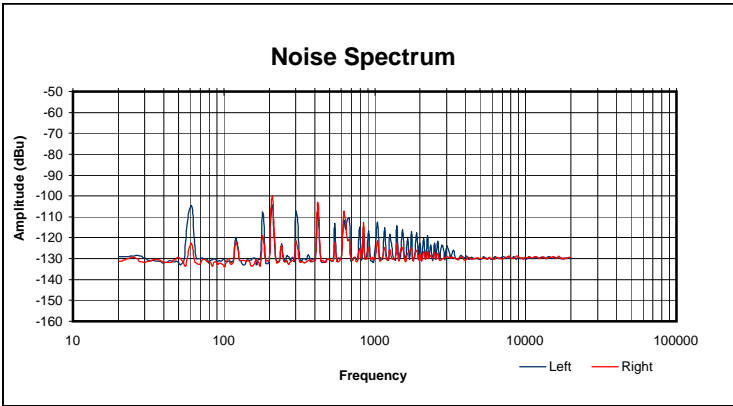
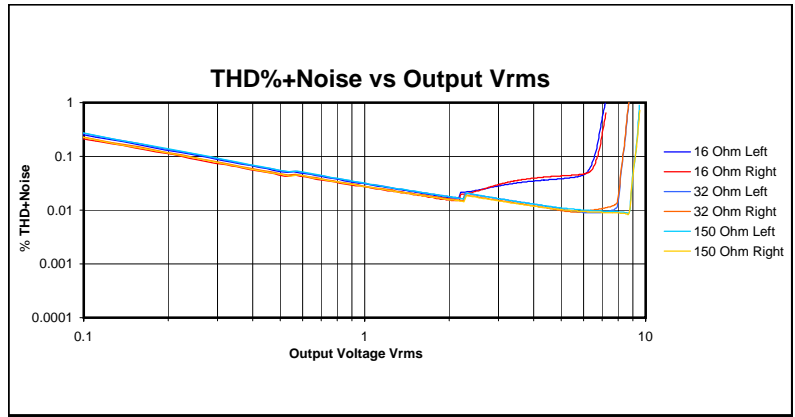
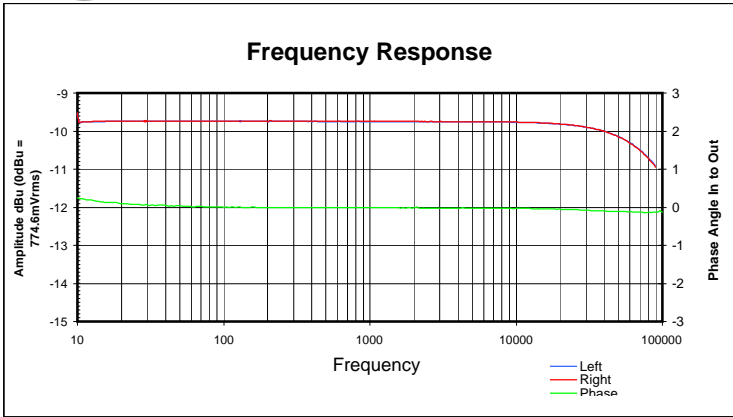
Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	0.0355	0.0868	0.3616
Volts @ 1% THD	0.7533	1.6670	7.3643
% THD+N 1kHz 0dBu	1.0353	0.4057	0.0846
SMPT E IMD 0dBu	0.9029	0.3995	0.0856
CCIF IMD 0dBu	0.2971	0.1317	0.0279
DIM/TIM 0dBu	0.1159	0.0518	0.0153
Gain in dB (low)			-1.9923
Noise @ Low Gain in mVrms			0.0648
Gain in dB (medium)			12.3309
Noise @ Medium Gain in mVrms			0.2997
Gain in dB (high)			0.0000
Noise @ High Gain in mVrms			0.0000
Output Impedance		1450.0579	
Channel Balance			0.0067





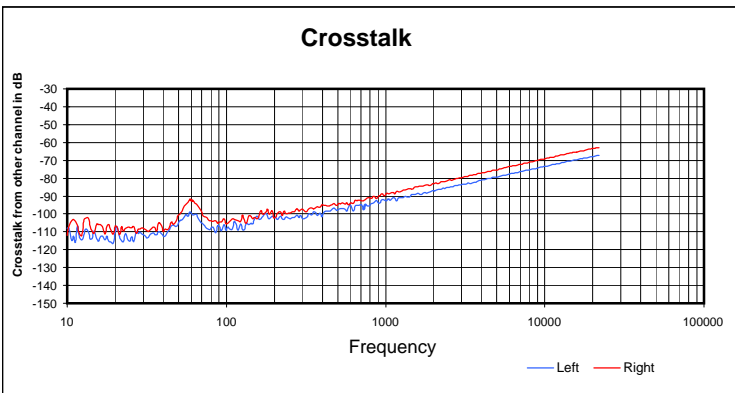
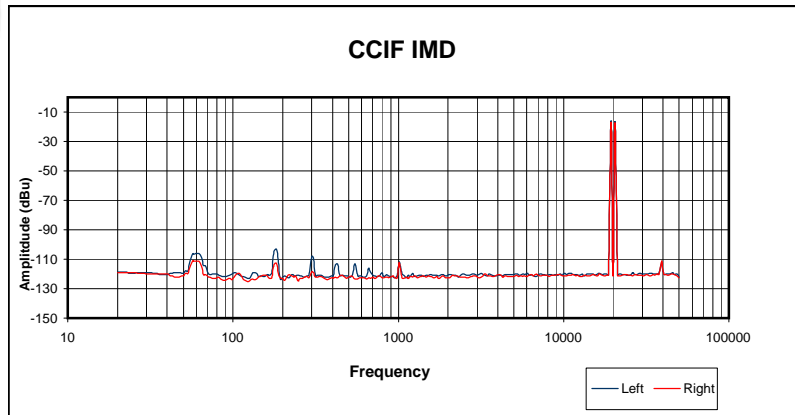
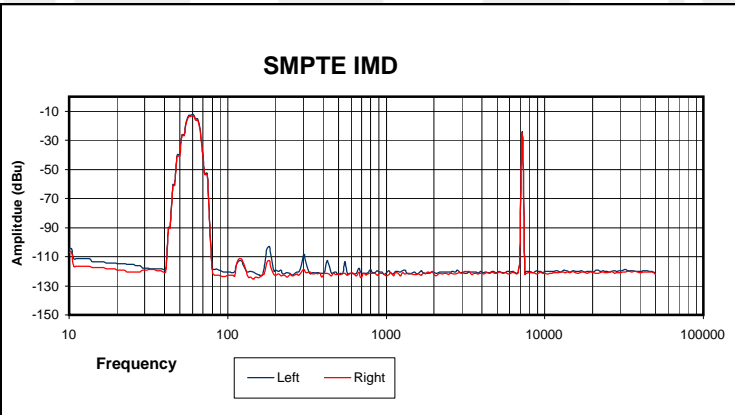
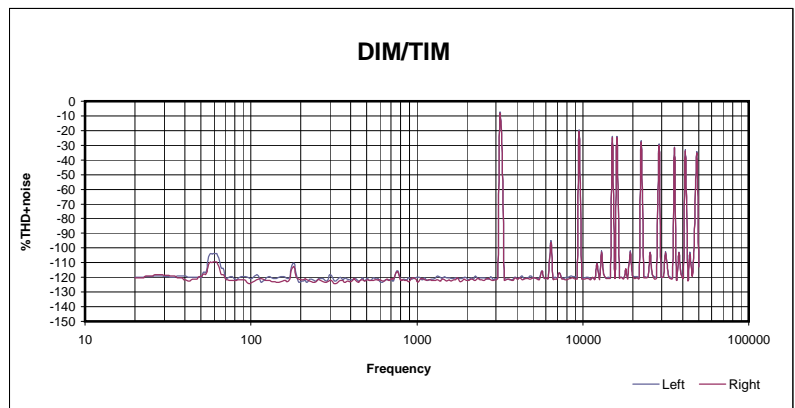
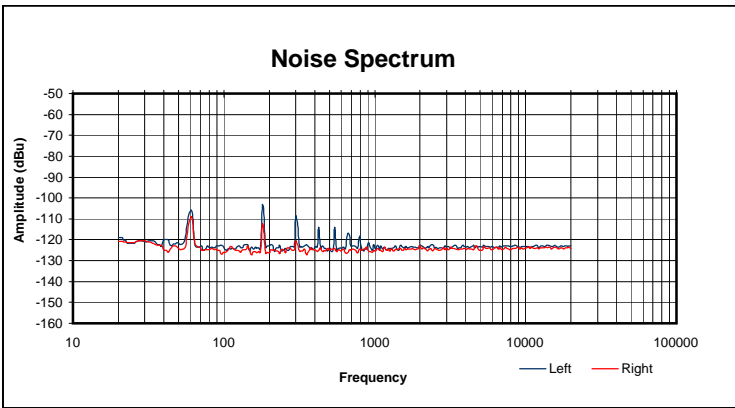
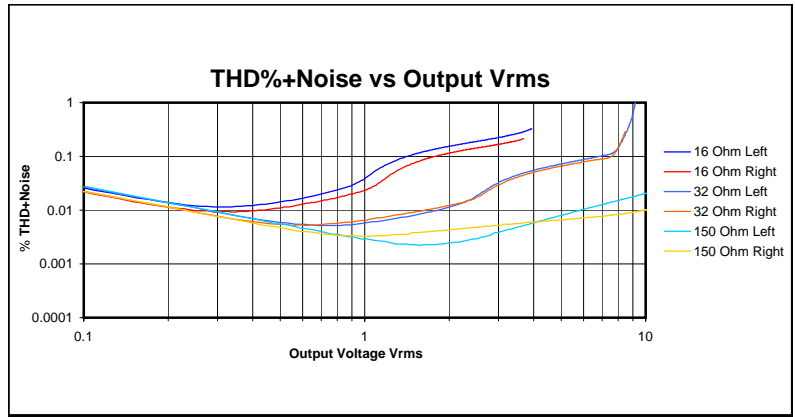
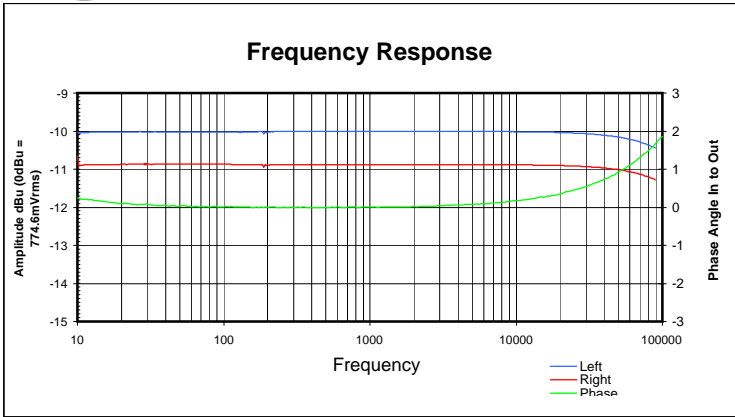
Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	0.2724	1.2162	0.4218
Volts @ 1% THD	2.0877	6.2383	7.9540
% THD+N 1kHz 0dBu	0.1788	0.0477	0.0252
SMPT E IMD 0dBu	0.1987	0.1368	0.0357
CCIF IMD 0dBu	0.0515	0.0118	0.0041
DIM/TIM 0dBu	0.0221	0.0106	0.0101
Gain in dB (low)		12.4250	
Noise @ Low Gain in mVrms		0.2959	
Gain in dB (medium)		0.0000	
Noise @ Medium Gain in mVrms		0.0000	
Gain in dB (high)		0.0000	
Noise @ High Gain in mVrms		0.0000	
Output Impedance		1.9867	
Channel Balance		0.0549	





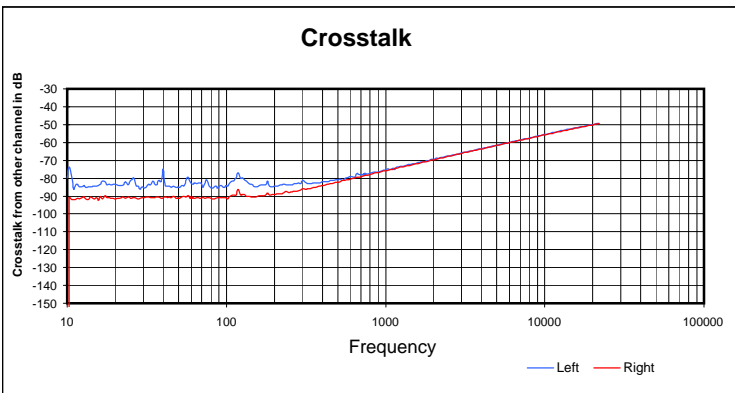
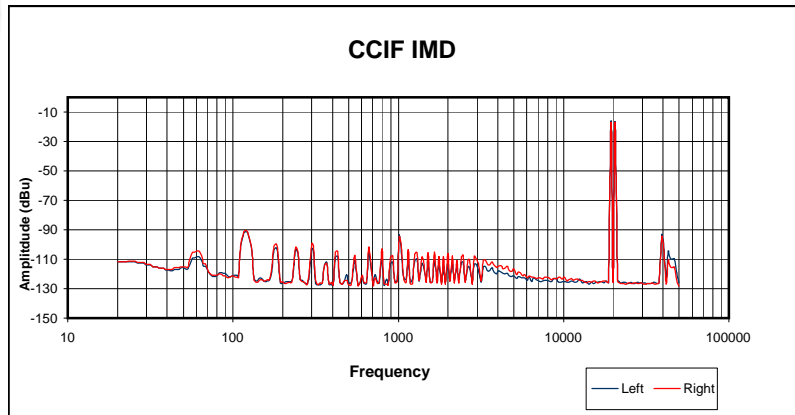
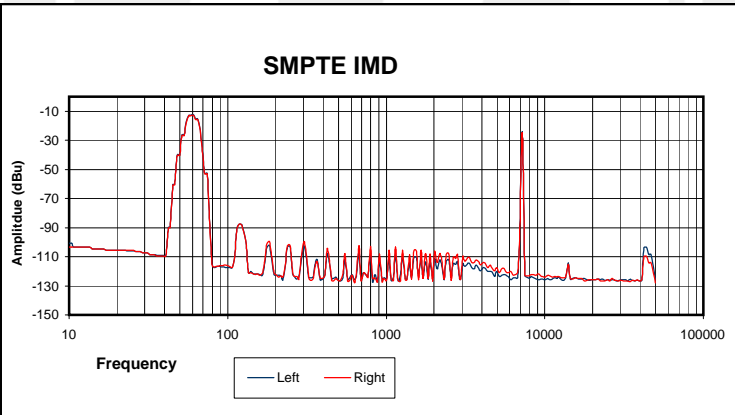
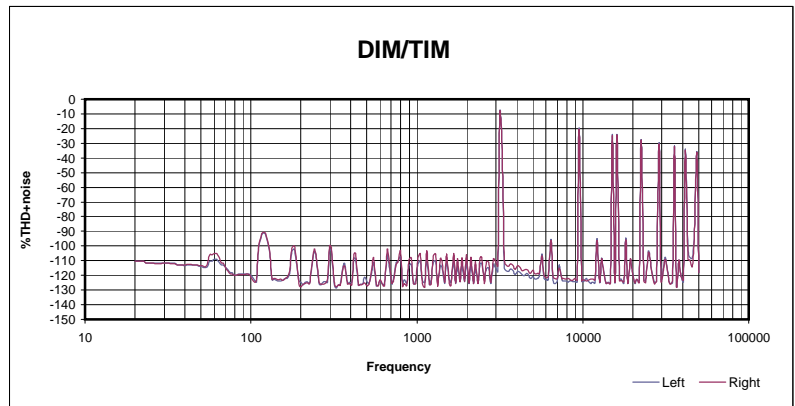
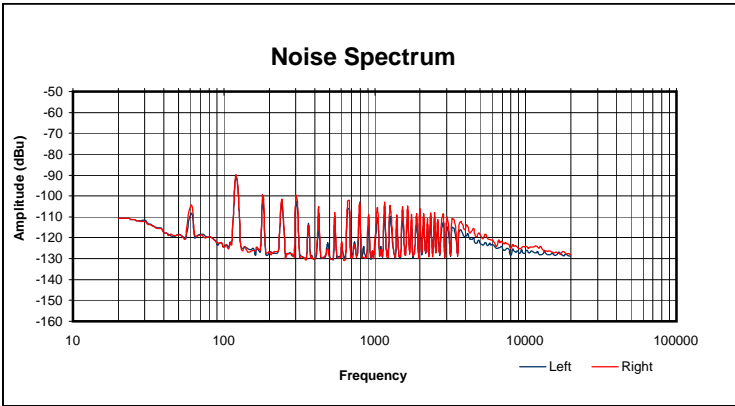
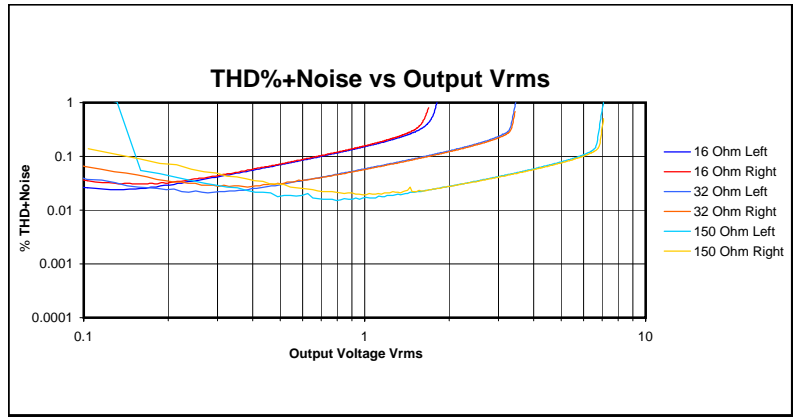
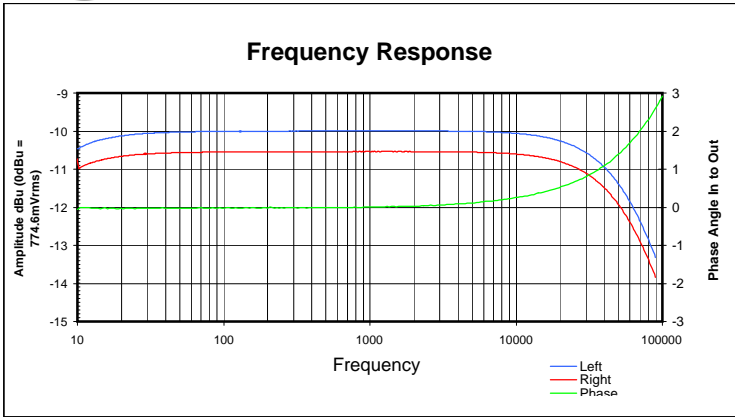
Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	3.2335	2.3792	0.6059
Volts @ 1% THD	7.1928	8.7255	9.5335
% THD+N 1kHz 0dBu	0.0112	0.0111	0.0110
SMPT E IMD 0dBu	0.0357	0.0365	0.0358
CCIF IMD 0dBu	0.0084	0.0082	0.0079
DIM/TIM 0dBu	0.0156	0.0151	0.0159
Gain in dB (low)		14.8869	
Noise @ Low Gain in mVrms		0.4717	
Gain in dB (medium)		0.0000	
Noise @ Medium Gain in mVrms		0.0000	
Gain in dB (high)		0.0000	
Noise @ High Gain in mVrms		0.0000	
Output Impedance		0.6741	
Channel Balance		-0.0046	





Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	0.9423	2.5569	1.2742
Volts @ 1% THD	3.8830	9.0455	13.8250
% THD+N 1kHz OdBu	0.0270	0.0103	0.0076
SMPT E IMD OdBu	0.0279	0.0183	0.0166
CCIF IMD OdBu	0.0076	0.0032	0.0025
DIM/TIM OdBu	0.0186	0.0188	0.0188
Gain in dB (low)		19.8759	
Noise @ Low Gain in mVrms		0.8219	
Gain in dB (medium)		0.0000	
Noise @ Medium Gain in mVrms		0.0000	
Gain in dB (high)		0.0000	
Noise @ High Gain in mVrms		0.0000	
Output Impedance		1.1680	
Channel Balance		0.8664	

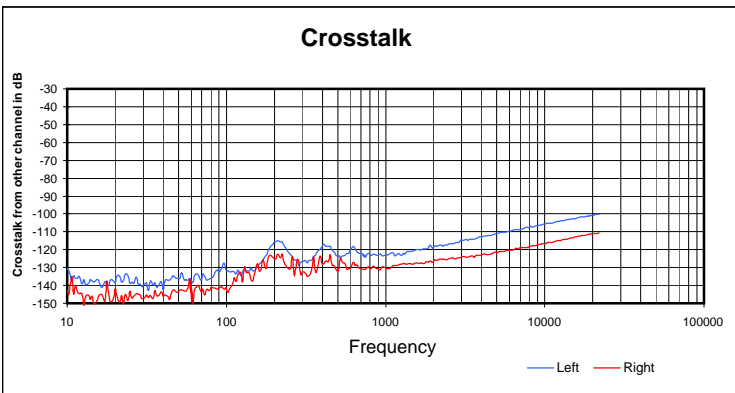
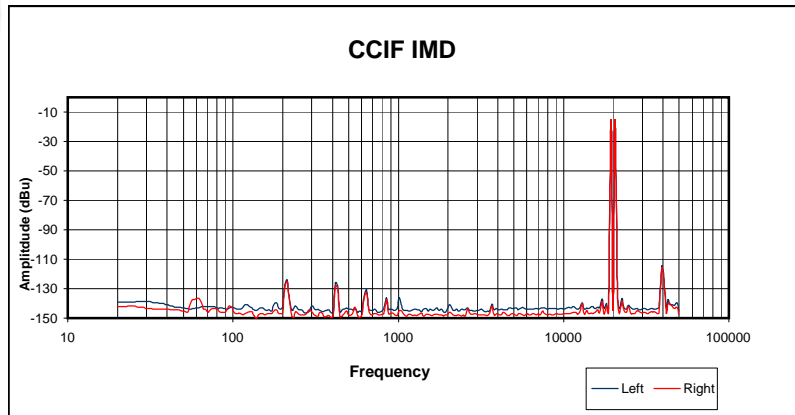
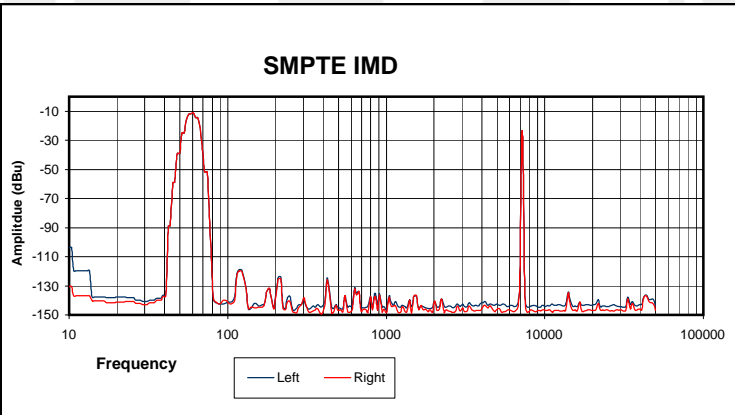
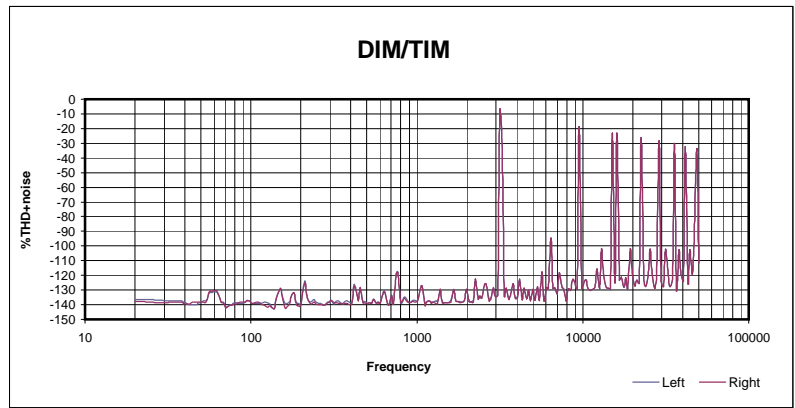
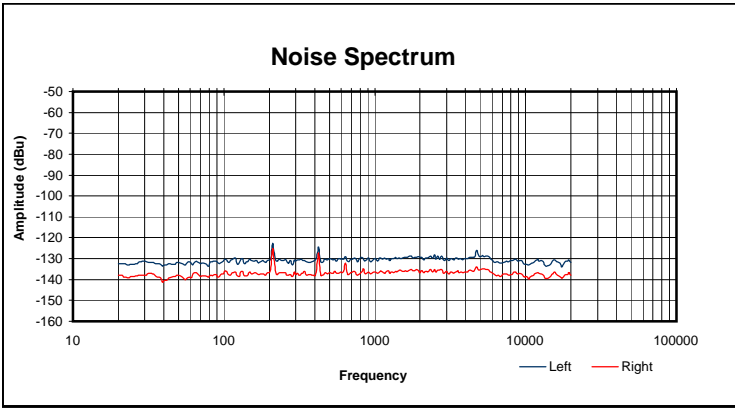
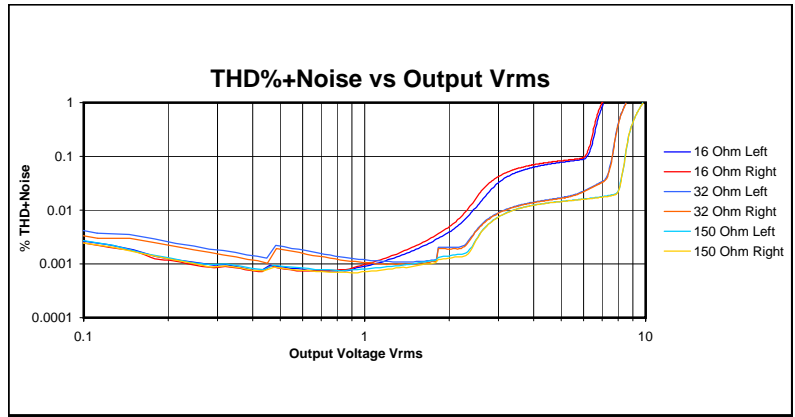
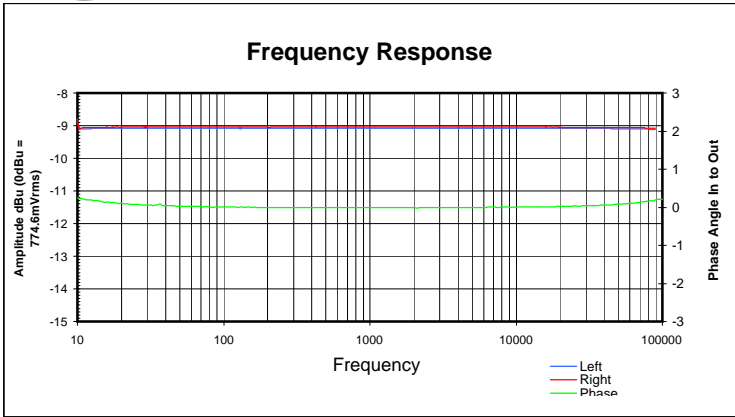




Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	0.2035	0.3719	0.3336
Volts @ 1% THD	1.8046	3.4499	7.0738
% THD+N 1kHz 0dBu	0.1116	0.0492	0.0217
SMPT E IMD 0dBu	0.1062	0.0445	0.0214
CCIF IMD 0dBu	0.0314	0.0141	0.0091
DIM/TIM 0dBu	0.0155	0.0260	0.0622
Gain in dB (low)		13.6825	
Noise @ Low Gain in mVrms		0.1300	
Gain in dB (medium)		0.0000	
Noise @ Medium Gain in mVrms		0.0000	
Gain in dB (high)		0.0000	
Noise @ High Gain in mVrms		0.0000	
Output Impedance		68.4168	
Channel Balance		0.5830	

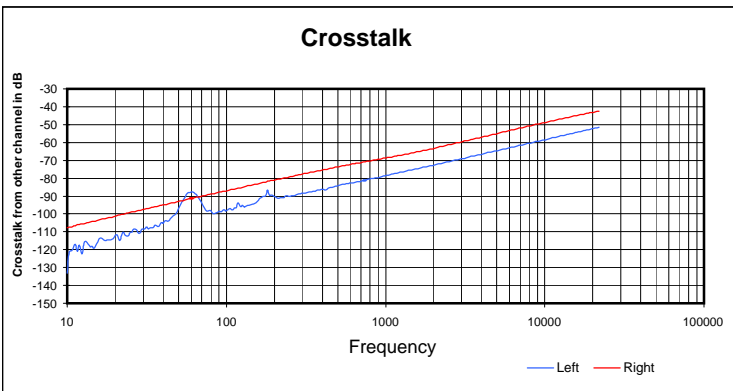
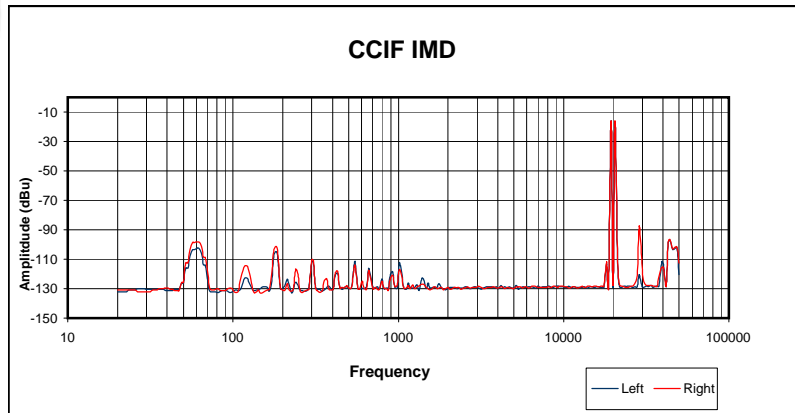
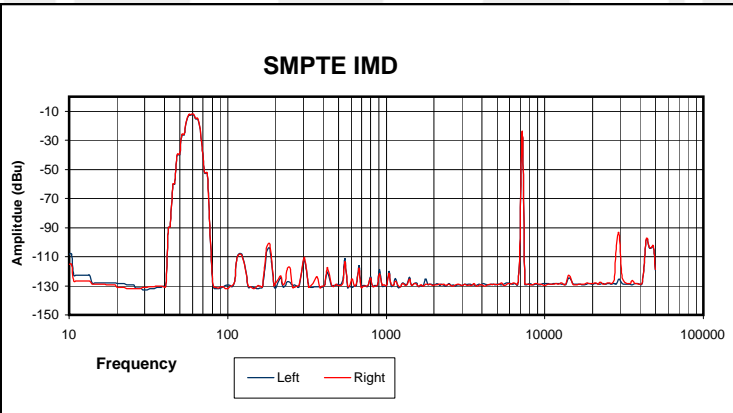
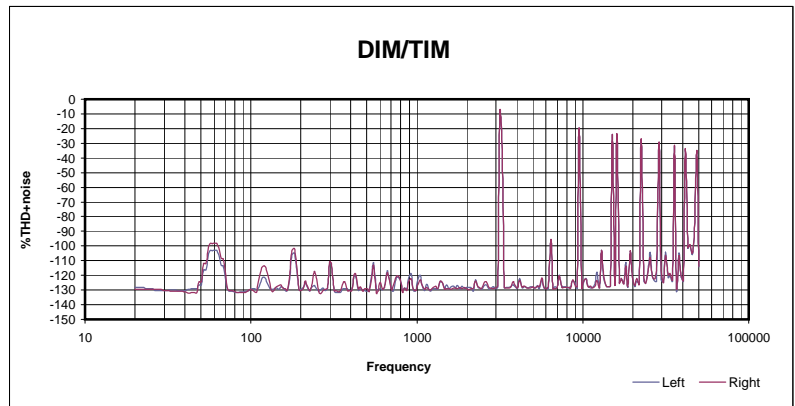
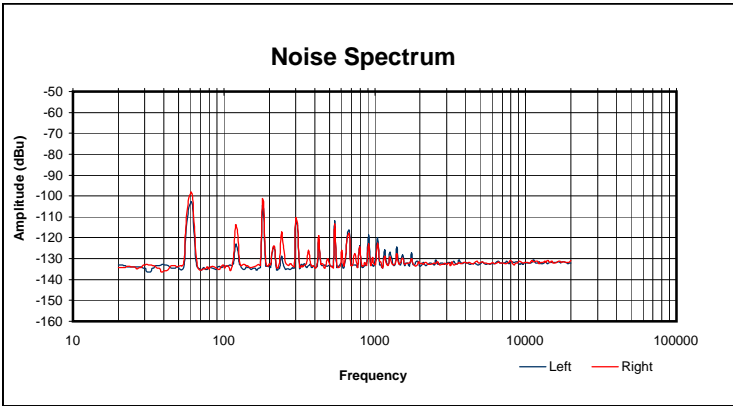
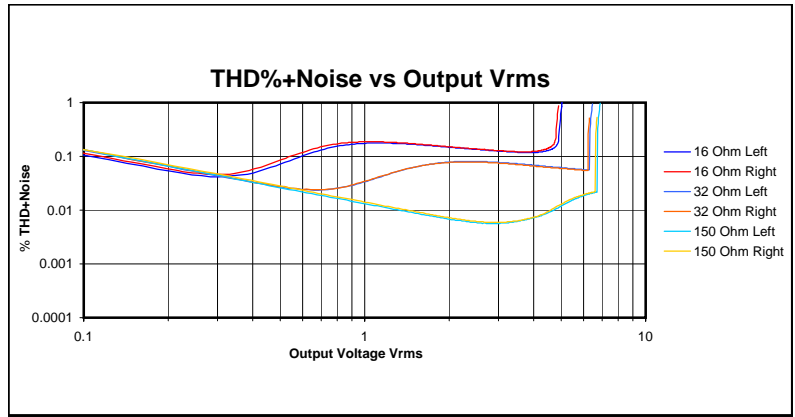
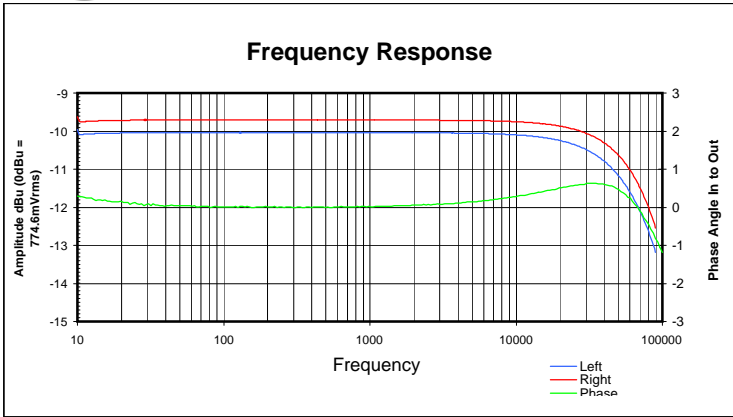






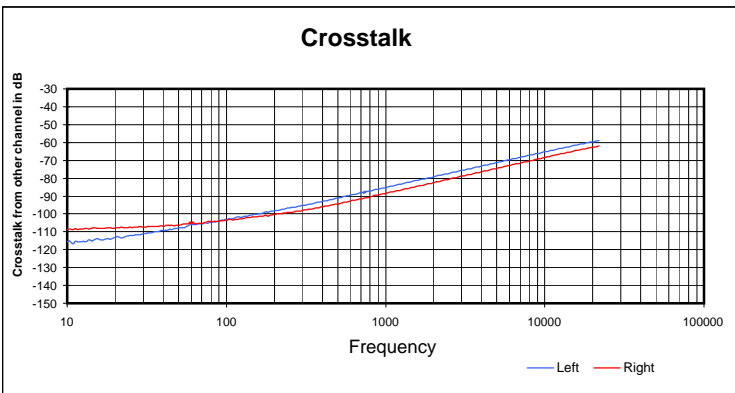
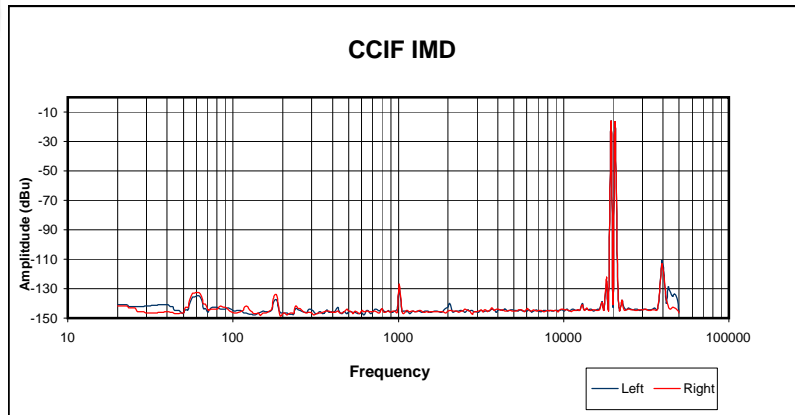
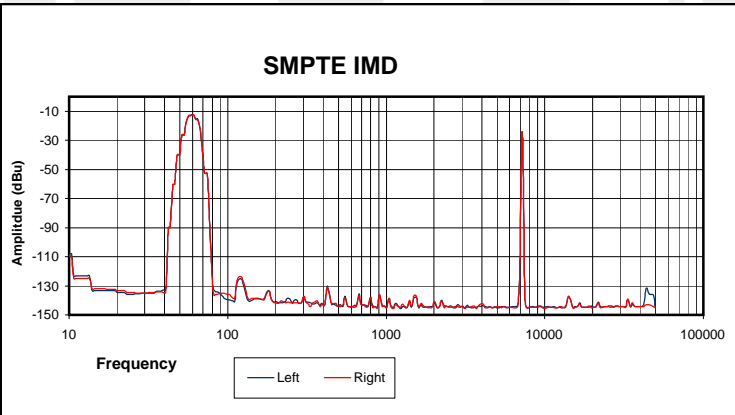
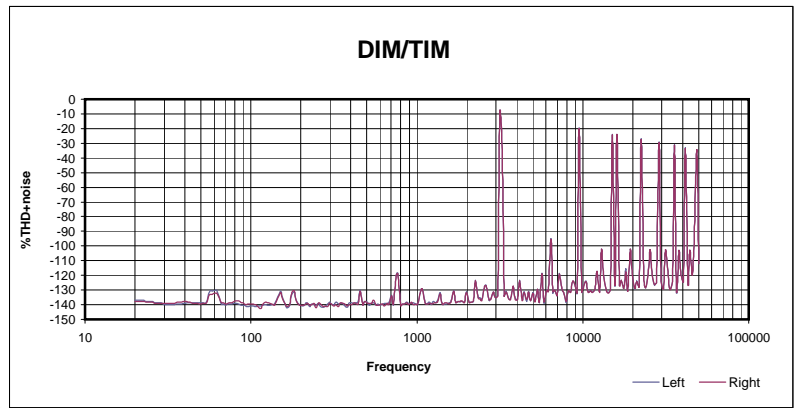
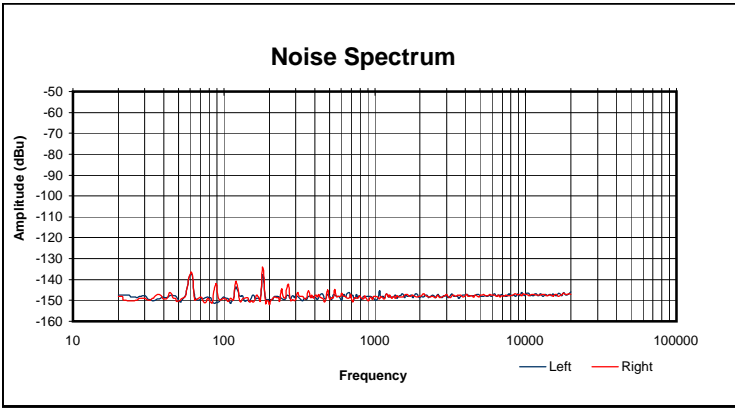
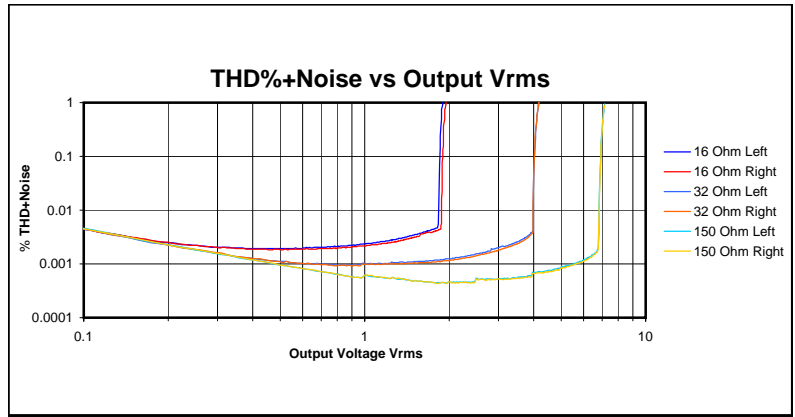
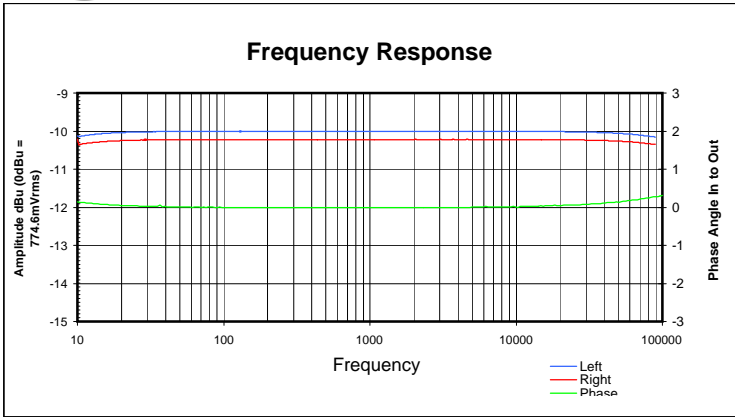
Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	3.1384	2.2662	0.6374
Volts @ 1% THD	7.0860	8.5158	9.7778
% THD+N 1kHz 0dBu	0.0008	0.0007	0.0008
SMPT E IMD 0dBu	0.0021	0.0021	0.0023
CCIF IMD 0dBu	0.0001	0.0002	0.0002
DIM/TIM 0dBu	0.0033	0.0033	0.0032
Gain in dB (low)		0.9251	
Noise @ Low Gain in mVrms		0.1873	
Gain in dB (medium)		12.5055	
Noise @ Medium Gain in mVrms		0.7777	
Gain in dB (high)		21.2308	
Noise @ High Gain in mVrms		1.9954	
Output Impedance		0.5398	
Channel Balance		-0.0326	





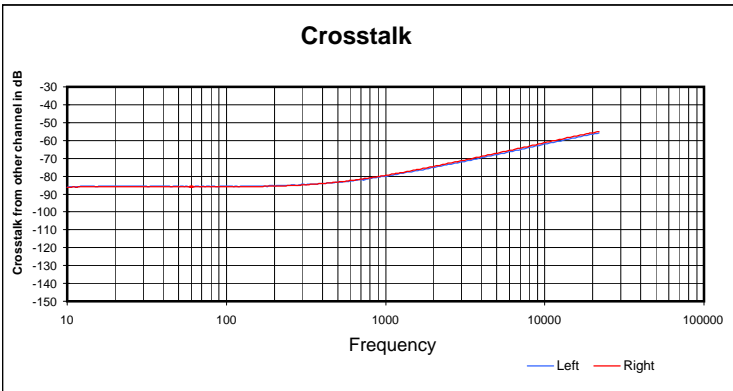
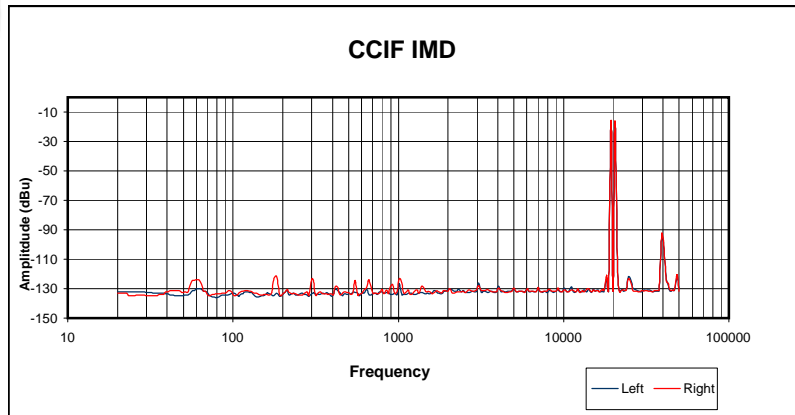
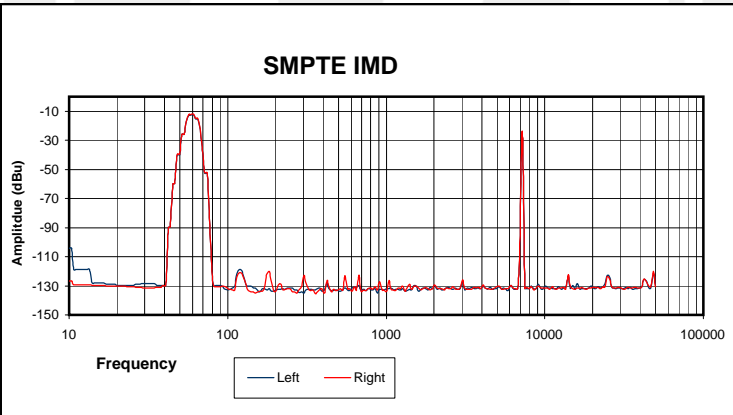
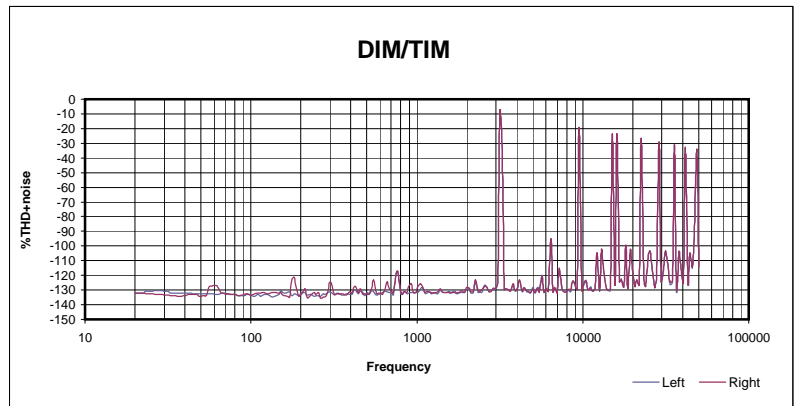
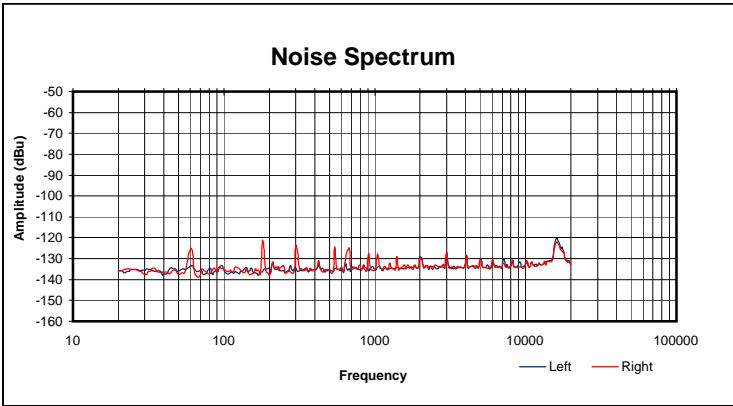
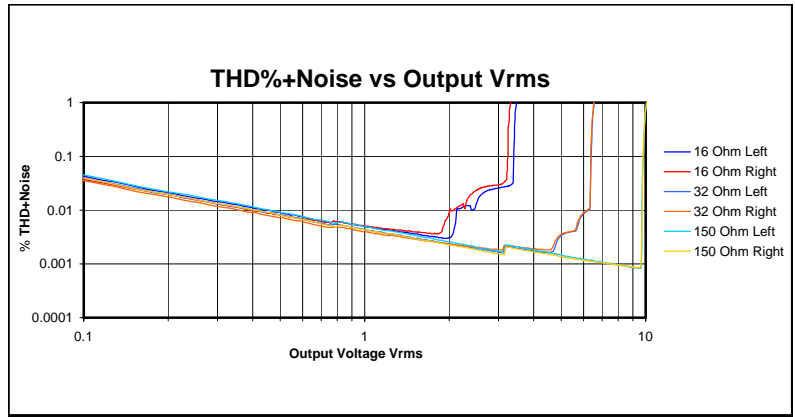
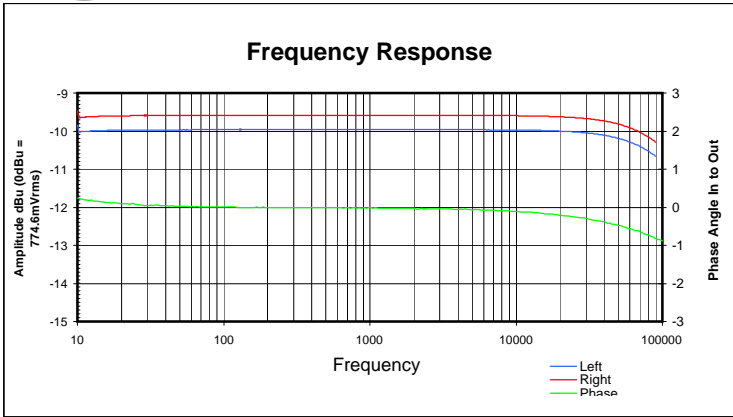
Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	1.5830	1.3094	0.3173
Volts @ 1% THD	5.0325	6.4730	6.8993
% THD+N 1kHz OdBu	0.1548	0.0225	0.0103
SMPT E IMD OdBu	0.0837	0.0110	0.0071
CCIF IMD OdBu	0.0086	0.0021	0.0013
DIM/TIM OdBu	0.0107	0.0099	0.0098
Gain in dB (low)		-7.2030	
Noise @ Low Gain in mVrms		0.1397	
Gain in dB (medium)		7.8350	
Noise @ Medium Gain in mVrms		0.1309	
Gain in dB (high)		18.2149	
Noise @ High Gain in mVrms		0.3231	
Output Impedance		2.5406	
Channel Balance		-0.3337	





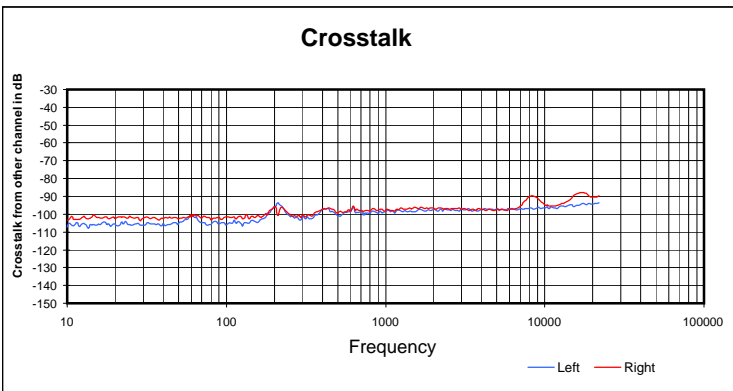
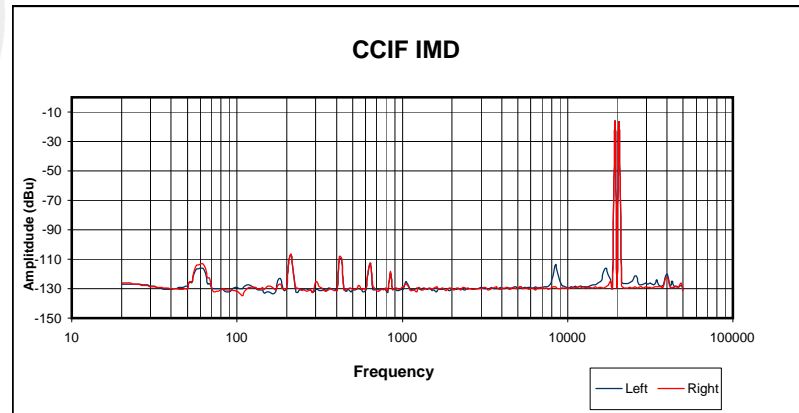
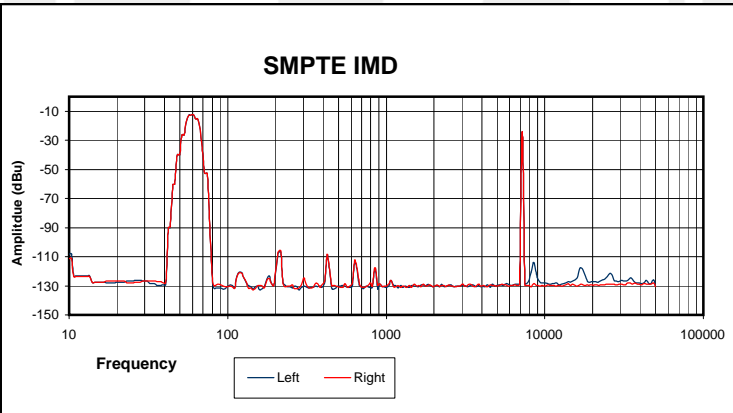
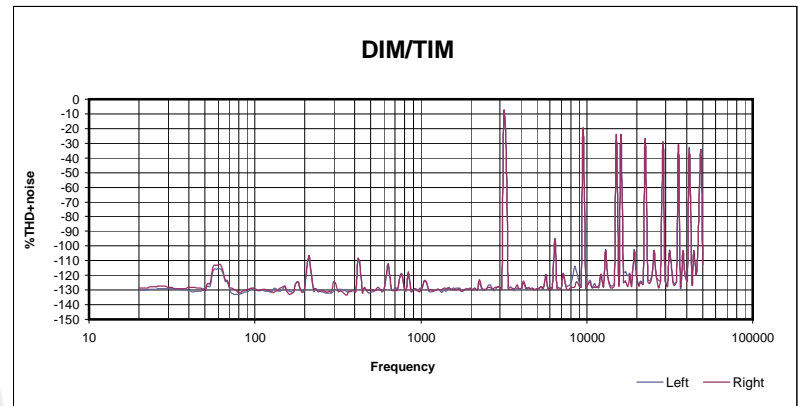
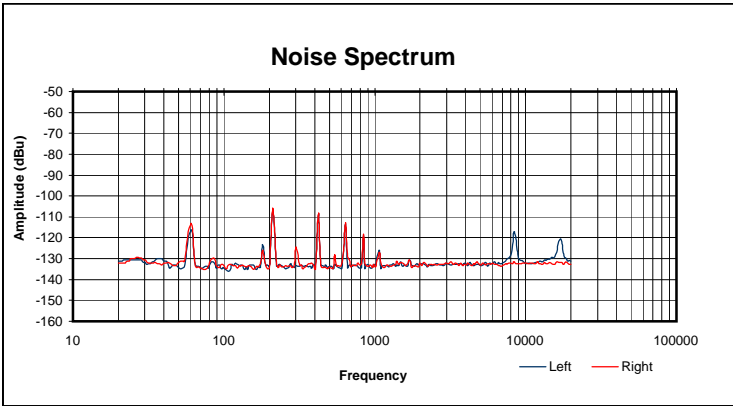
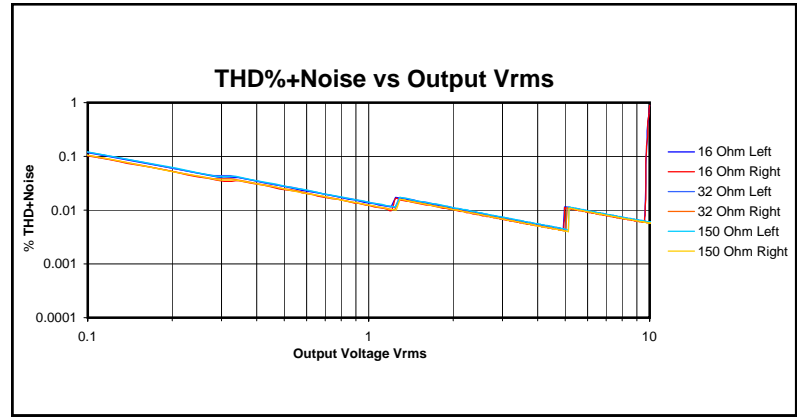
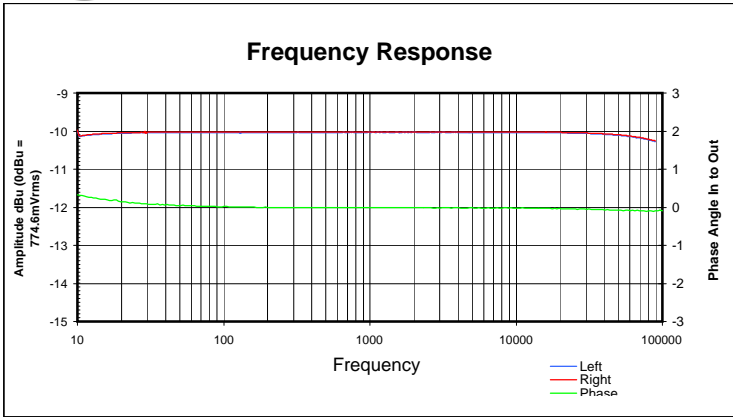
Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	0.2149	0.5272	0.3414
Volts @ 1% THD	1.8541	4.1075	7.1565
% THD+N 1kHz 0dBu	0.0021	0.0010	0.0006
SMPT E IMD 0dBu	0.0045	0.0020	0.0011
CCIF IMD 0dBu	0.0009	0.0003	0.0002
DIM/TIM 0dBu	0.0037	0.0034	0.0036
Gain in dB (low)		7.5214	
Noise @ Low Gain in mVrms		0.0447	
Gain in dB (medium)		15.7229	
Noise @ Medium Gain in mVrms		0.0923	
Gain in dB (high)		0.0000	
Noise @ High Gain in mVrms		0.0000	
Output Impedance		0.7088	
Channel Balance		0.2171	





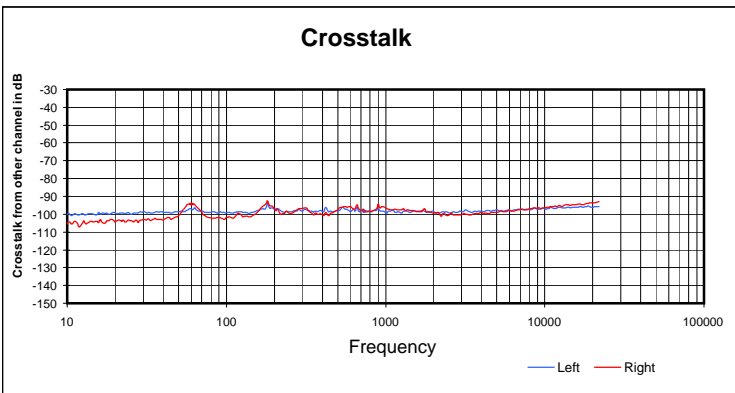
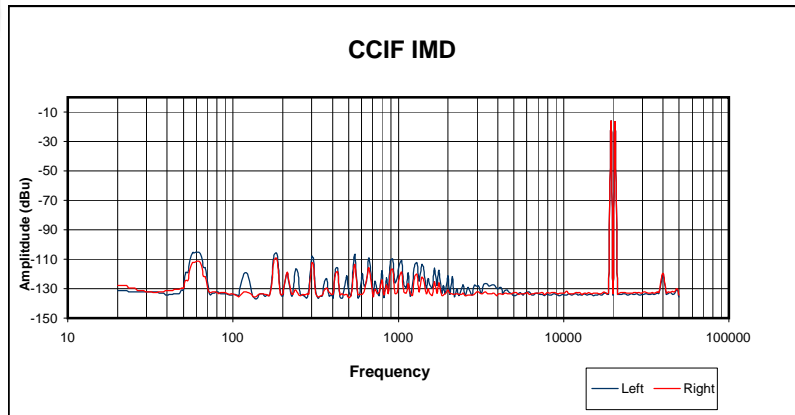
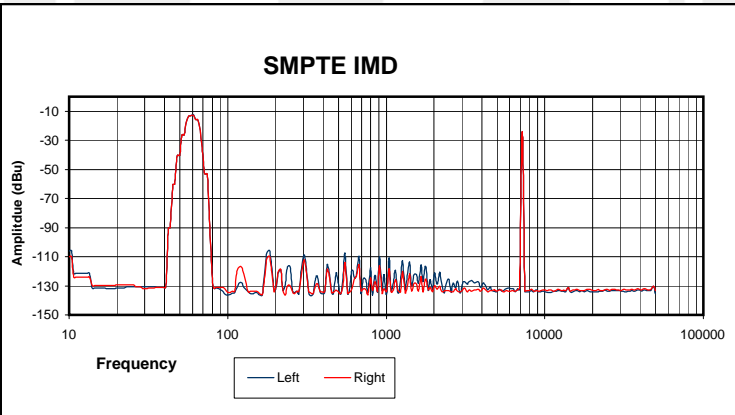
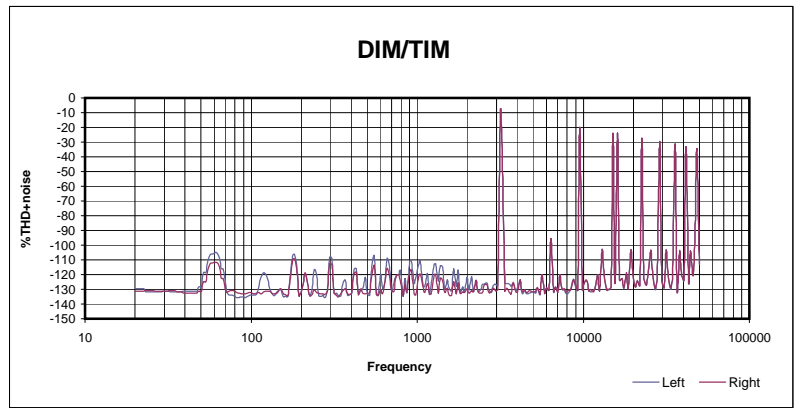
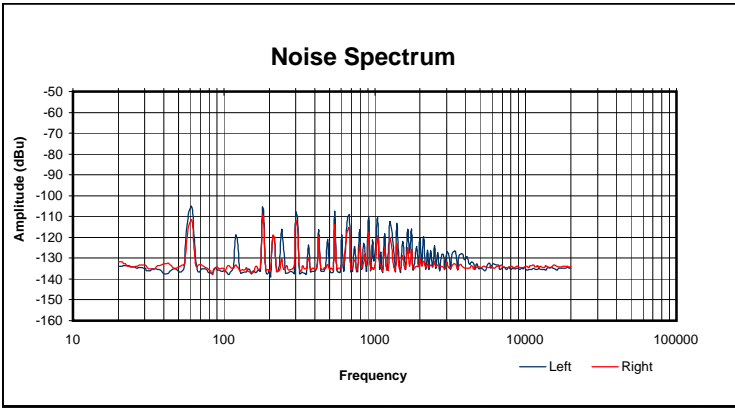
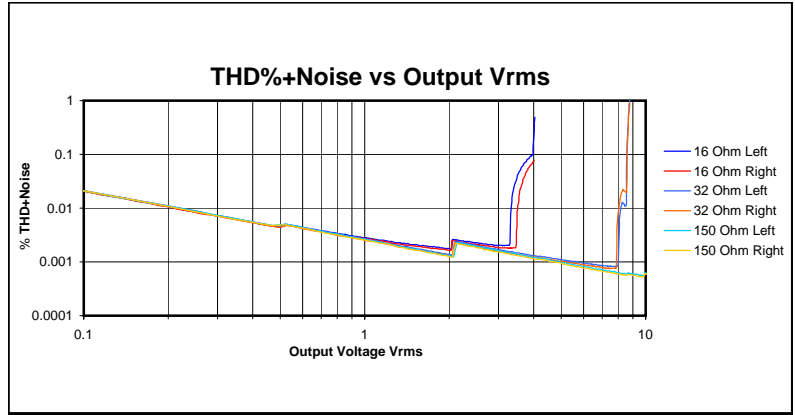
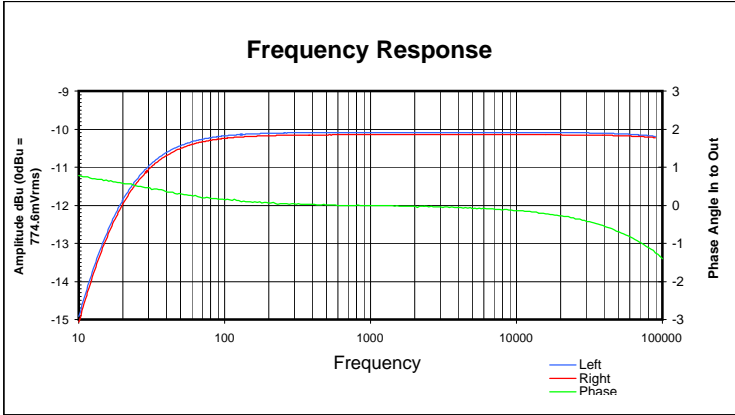
Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	0.7486	1.3374	0.6754
Volts @ 1% THD	3.4610	6.5438	10.0660
% THD+N 1kHz 0dBu	0.0026	0.0025	0.0027
SMPT E IMD 0dBu	0.0075	0.0051	0.0050
CCIF IMD 0dBu	0.0008	0.0006	0.0007
DIM/TIM 0dBu	0.0058	0.0059	0.0061
Gain in dB (low)		17.7500	
Noise @ Low Gain in mVrms		0.7269	
Gain in dB (medium)		0.0000	
Noise @ Medium Gain in mVrms		0.0000	
Gain in dB (high)		0.0000	
Noise @ High Gain in mVrms		0.0000	
Output Impedance		0.1400	
Channel Balance		-0.3882	





Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	6.1737	3.5248	0.8191
Volts @ 1% THD	9.9378	10.6210	11.0845
% THD+N 1kHz 0dBu	0.0088	0.0088	0.0088
SMPT E IMD 0dBu	0.0061	0.0069	0.0066
CCIF IMD 0dBu	0.0009	0.0009	0.0009
DIM/TIM 0dBu	0.0092	0.0090	0.0094
Gain in dB (low)		9.8683	
Noise @ Low Gain in mVrms		0.2095	
Gain in dB (medium)		15.8885	
Noise @ Medium Gain in mVrms		0.4227	
Gain in dB (high)		0.0000	
Noise @ High Gain in mVrms		0.0000	
Output Impedance		0.5481	
Channel Balance		-0.0167	





Specification	16 Ohms	32 Ohms	150 Ohms
W @ 1% THD	0.0000	2.3979	1.4154
Volts @ 1% THD	0.0000	8.7600	14.5715
% THD+N 1kHz 0dBu	0.0046	0.0046	0.0044
SMPT E IMD 0dBu	0.0152	0.0162	0.0139
CCIF IMD 0dBu	0.0027	0.0026	0.0025
DIM/TIM 0dBu	0.0146	0.0147	0.0143
Gain in dB (low)		-3.7925	
Noise @ Low Gain in mVrms		0.1228	
Gain in dB (medium)		2.1683	
Noise @ Medium Gain in mVrms		0.1841	
Gain in dB (high)		20.2288	
Noise @ High Gain in mVrms		1.2324	
Output Impedance		0.4237	
Channel Balance		0.0542	

