

AXT100 Modulation versus Frequency Curves

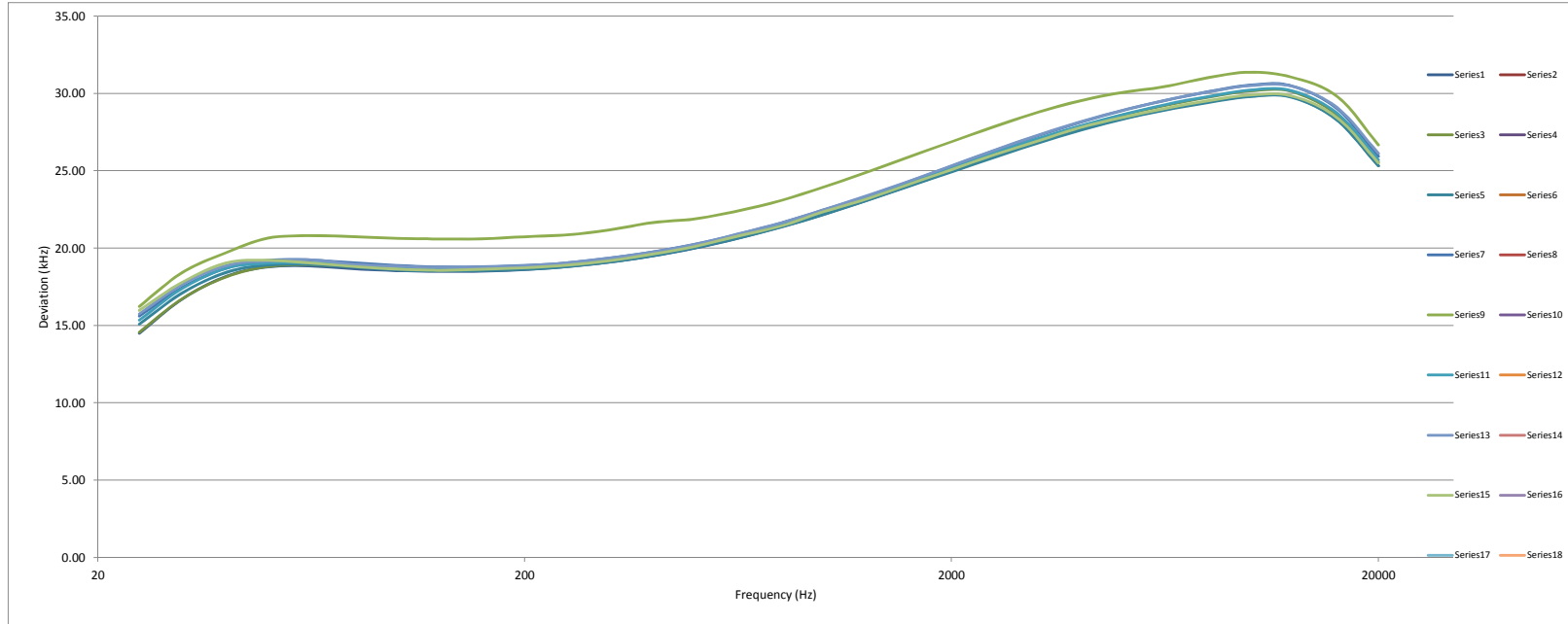
Measurement date: 3/29/2011

AXT100 Modulation Characteristics
 Measured Deviation (kHz)
 Audio Generator: AP Portable One
 Measured on a Boonton 8200 Modulation Analyzer
 Boonton Settings: HP = <10Hz, LP = 50kHz, No Pre-emp

Audio level input = -25dBu (sine wave)
 Settings: 0dB gain (nominal setting, tonekey enabled)
 Frequency of maximum response: 10.0 kHz

Measurements done in 10mW mode
 and verified for consistency to 50mW/100mW mode
 The modulation is the same for each power mode

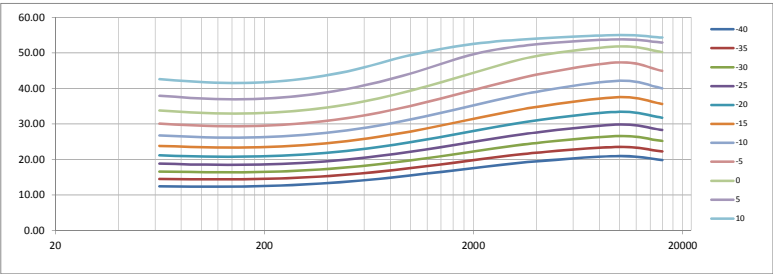
Audio Freq	Carrier Frequency (mid-band)															
	500 MHz		548 MHz		607.875 MHz		668 MHz		750 MHz		836 MHz		898 MHz		977 MHz	
	G1/G1E Band		H4/H4E Band		J5/J5E Band		L3/L3E Band		P8 Band		K4E Band		M8 Band		Q5 Band	
25	14.50		14.57		15.09		15.61		16.24		15.35		15.75		15.98	
31.5	16.71		16.73		17.10		17.45		18.42		17.39		17.65		17.80	
40	18.19		18.15		18.44		18.72		19.72		18.71		18.89		19.05	
50	18.80		18.82		18.91		19.21		20.65		19.02		19.17		19.22	
63	18.84		18.92		18.95		19.24		20.81		19.05		19.25		19.04	
80	18.68		18.80		18.78		19.04		20.74		18.87		18.96		18.81	
100	18.55		18.68		18.60		18.89		20.64		18.74		18.84		18.66	
125	18.51		18.62		18.53		18.79		20.60		18.68		18.76		18.57	
160	18.51		18.63		18.56		18.80		20.61		18.72		18.78		18.64	
200	18.62		18.73		18.62		18.89		20.74		18.81		18.87		18.73	
250	18.80		18.91		18.81		19.04		20.86		19.00		19.05		18.90	
315	19.10		19.20		19.10		19.36		21.18		19.27		19.36		19.19	
400	19.50		19.59		19.51		19.75		21.66		19.68		19.76		19.62	
500	20.01		20.11		20.02		20.25		21.89		20.19		20.24		20.11	
630	20.64		20.73		20.64		20.90		22.40		20.82		20.91		20.78	
800	21.39		21.49		21.38		21.64		23.10		21.57		21.65		21.45	
1000	22.17		22.27		22.16		22.46		23.94		22.35		22.47		22.35	
1250	23.05		23.16		23.04		23.30		24.86		23.24		23.34		23.14	
1600	24.06		24.18		24.03		24.33		25.93		24.22		24.36		24.16	
2000	24.98		25.11		24.94		25.31		26.88		25.17		25.33		25.08	
2500	25.91		26.05		25.85		26.28		27.83		26.12		26.30		26.01	
3150	26.81		26.97		26.74		27.23		28.75		27.04		27.27		26.89	
4000	27.66		27.86		27.63		28.13		29.53		27.92		28.17		27.80	
5000	28.37		28.59		28.32		28.89		30.06		28.61		28.89		28.44	
6300	28.96		29.22		28.92		29.54		30.44		29.27		29.55		29.02	
8000	29.48		29.77		29.42		30.12		31.03		29.81		30.11		29.54	
10000	29.83		30.16		29.80		30.54		31.38		30.22		30.51		29.90	
12500	29.80		30.14		29.77		30.50		31.06		30.19		30.48		29.85	
16000	28.31		28.61		28.27		29.02		29.82		28.73		29.09		28.44	
20000	25.34		25.57		25.32		25.95		26.68		25.72		26.13		25.51	



AXT100 Modulation by Input Level Curves

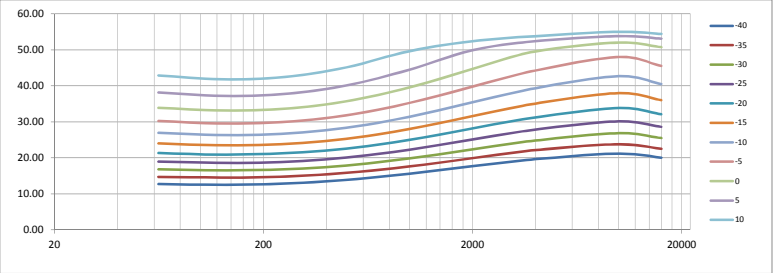
Band: G1/G1E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	12.48	12.36	12.70	13.75	15.52	17.58	19.49	20.97	19.84
-35	14.50	14.41	14.70	15.74	17.55	19.80	21.91	23.52	22.28
-30	16.63	16.39	16.67	17.78	19.74	22.25	24.64	26.58	25.22
-25	18.82	18.50	18.80	19.98	22.16	24.97	27.60	29.82	28.31
-20	21.15	20.80	21.12	22.43	24.88	28.01	31.02	33.42	31.75
-15	23.84	23.34	23.71	25.17	27.88	31.42	34.79	37.54	35.63
-10	26.76	26.15	26.55	28.18	31.26	35.21	39.05	42.15	40.03
-5	30.07	29.35	29.79	31.66	35.06	39.51	43.84	47.32	44.94
0	33.77	32.95	33.39	35.50	39.33	44.37	49.09	51.80	50.22
5	37.89	36.96	37.49	39.87	44.18	49.60	52.40	53.80	52.90
10	42.58	41.56	42.11	44.81	49.37	52.50	54.00	55.00	54.30



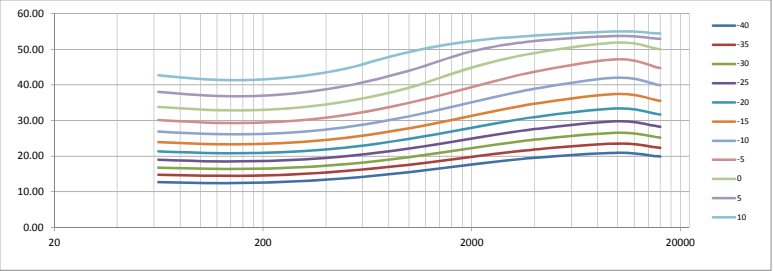
Band: H4/H4E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	12.75	12.50	12.84	13.86	15.60	17.67	19.63	21.17	20.05
-35	14.73	14.54	14.74	15.82	17.62	19.89	22.15	23.76	22.49
-30	16.81	16.51	16.78	17.87	19.82	22.35	24.80	26.84	25.49
-25	18.96	18.61	18.86	20.09	22.26	25.08	27.84	30.12	28.60
-20	21.36	20.86	21.28	22.55	24.96	28.16	31.24	33.83	32.10
-15	24.00	23.48	23.81	25.29	28.01	31.58	35.07	37.97	36.02
-10	26.93	26.32	26.69	28.36	31.42	35.41	39.33	42.69	40.49
-5	30.23	29.54	29.94	31.81	35.25	39.78	44.24	48.01	45.52
0	33.91	33.14	33.61	35.71	39.54	44.68	49.55	52.00	50.73
5	38.17	37.21	37.73	40.12	44.48	49.87	52.40	53.80	53.10
10	42.89	41.83	42.41	45.13	49.63	52.40	53.80	55.00	54.40



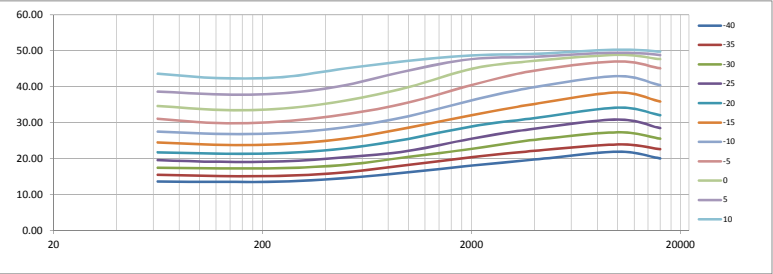
Band: J5/J5E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	12.73	12.46	12.76	13.84	15.52	17.66	19.54	20.94	19.88
-35	14.76	14.49	14.74	15.85	17.56	19.81	21.86	23.54	22.30
-30	16.79	16.45	16.67	17.79	19.75	22.26	24.63	26.56	25.23
-25	18.98	18.54	18.82	20.01	22.16	24.95	27.60	29.77	28.27
-20	21.35	20.84	21.12	22.44	24.85	27.95	30.98	33.37	31.68
-15	23.97	23.35	23.67	25.15	27.81	31.33	34.71	37.44	35.50
-10	26.88	26.17	26.48	28.14	31.17	35.11	38.91	42.01	39.90
-5	30.15	29.31	29.71	31.55	34.94	39.36	43.67	47.16	44.71
0	33.83	32.90	33.30	35.38	39.18	44.88	48.93	51.86	49.98
5	38.00	36.86	37.34	39.71	43.98	49.40	52.30	53.70	52.90
10	42.66	41.38	41.93	44.58	49.26	52.30	53.80	55.00	54.40



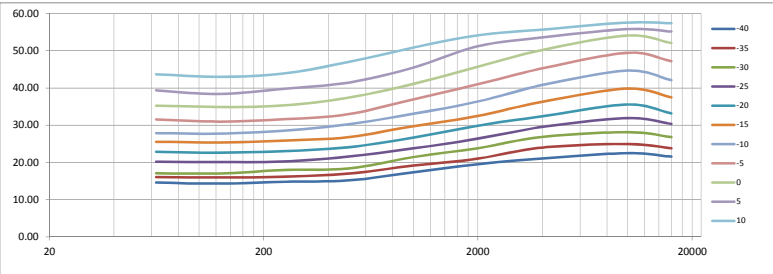
Band: L3/L3E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	13.62	13.47	13.56	14.52	16.19	18.01	19.69	21.87	20.02
-35	15.44	15.11	15.15	16.13	18.22	20.36	22.13	23.90	22.61
-30	17.39	17.26	17.32	18.23	20.45	22.66	25.18	27.27	25.53
-25	19.51	19.07	19.21	20.31	22.12	25.52	28.29	30.83	28.46
-20	21.73	21.32	21.48	22.82	25.47	28.94	31.22	34.14	32.06
-15	24.49	23.77	24.04	25.54	28.57	32.03	35.16	38.35	35.86
-10	27.47	26.87	27.07	28.70	31.75	36.18	39.85	42.93	40.40
-5	31.08	29.81	30.29	32.27	35.58	40.42	44.44	47.02	45.09
0	34.63	33.53	33.87	36.17	39.84	44.95	47.18	48.83	47.66
5	38.62	37.85	38.11	40.44	44.50	47.66	48.33	49.46	48.81
10	43.57	42.36	42.65	45.07	47.20	48.70	49.13	50.31	49.75



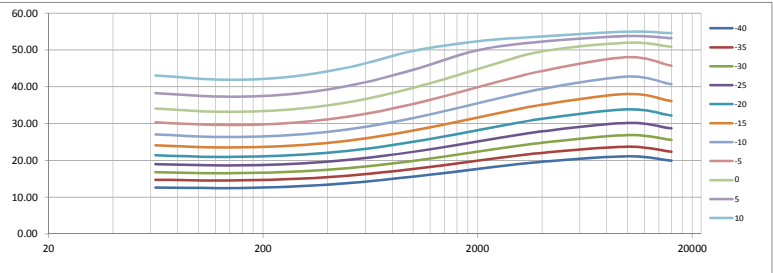
Band: P8

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	14.56	14.30	14.81	15.16	17.36	19.53	21.05	22.49	21.56
-35	16.06	15.98	16.16	17.01	19.17	21.02	24.01	24.95	23.81
-30	17.09	17.02	17.98	18.37	21.44	23.83	26.86	28.14	26.81
-25	20.15	20.09	20.24	21.56	23.81	26.37	29.54	31.90	30.37
-20	22.83	22.61	23.02	24.10	26.64	29.88	32.41	35.57	33.18
-15	25.53	25.39	25.86	26.81	29.74	32.49	36.32	39.84	37.51
-10	27.88	27.72	28.57	30.28	33.08	36.33	40.82	44.67	42.13
-5	31.56	30.97	31.61	32.99	36.98	41.00	45.29	49.46	47.21
0	35.26	34.91	35.33	37.43	41.09	45.72	50.24	54.10	52.10
5	39.34	38.39	39.83	41.46	45.51	51.23	53.60	55.84	55.20
10	43.71	43.01	43.89	47.03	50.86	54.20	55.70	57.60	57.40

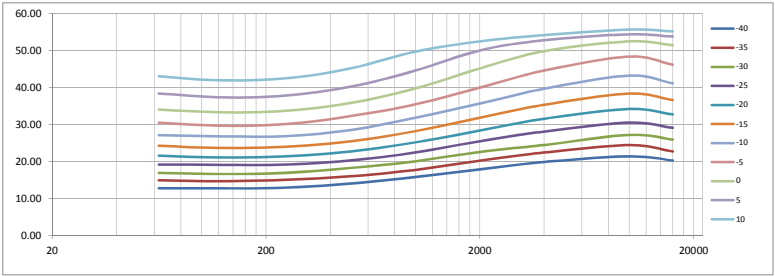


Band: K4E

Level (dBu)	63	125	250	500	1000	2000	4000	10000	16000
-40	12.64	12.51	12.82	13.86	15.61	17.69	19.66	21.12	19.95
-35	14.77	14.55	14.86	15.87	17.66	19.94	22.07	23.73	22.37
-30	16.84	16.55	16.83	17.93	19.89	22.41	24.81	26.89	25.59
-25	19.03	18.66	18.97	20.17	22.33	25.14	27.91	30.19	28.72
-20	21.39	20.97	21.31	22.63	25.04	28.22	31.31	33.88	32.22
-15	24.09	23.56	23.90	25.40	28.10	31.67	35.14	38.05	36.13
-10	27.04	26.42	26.80	28.46	31.52	35.52	39.45	42.77	40.72
-5	30.36	29.66	30.04	31.93	35.31	39.90	44.32	48.05	45.73
0	34.08	33.25	33.72	35.82	39.69	44.80	49.63	52.00	50.93
5	38.33	37.34	37.89	40.27	44.61	49.94	52.30	53.80	53.20
10	43.09	41.98	42.56	45.29	49.76	52.40	53.70	55.00	54.60



Band: M8	Frequency (Hz)									
	63	125	250	500	1000	2000	4000	10000	16000	
-40	12.71	12.77	12.87	13.99	15.74	17.87	19.85	21.37	20.23	
-35	14.88	14.62	15.03	15.96	17.71	20.21	22.40	24.41	22.71	
-30	16.87	16.62	16.90	18.26	20.02	22.57	24.44	27.18	25.93	
-25	19.16	19.08	19.13	20.26	22.41	25.49	28.08	30.51	29.09	
-20	21.53	21.03	21.38	22.73	25.16	28.35	31.55	34.18	32.71	
-15	24.22	23.62	23.98	25.43	28.19	31.81	35.33	38.35	36.60	
-10	27.13	26.77	26.85	28.51	31.85	35.64	39.68	43.23	41.14	
-5	30.45	29.66	30.13	32.29	35.43	39.97	44.60	48.37	46.20	
0	34.02	33.29	33.71	35.83	39.73	45.16	49.86	52.50	51.45	
5	38.37	37.32	37.84	40.24	44.58	50.05	52.80	54.40	53.80	
10	43.02	41.92	42.50	45.21	49.74	52.50	54.20	55.70	55.20	



Band: Q5	Frequency (Hz)									
	63	125	250	500	1000	2000	4000	10000	16000	
-40	12.60	12.38	12.74	13.80	15.59	17.64	19.51	20.88	19.80	
-35	14.73	14.44	14.73	15.82	17.62	19.96	21.93	23.46	22.16	
-30	16.79	16.45	16.75	17.85	20.47	22.33	24.66	26.62	25.32	
-25	18.98	18.55	18.92	20.02	22.54	25.20	27.76	29.85	28.39	
-20	21.40	20.87	21.20	22.54	24.99	28.12	31.10	33.65	31.87	
-15	24.01	23.44	23.78	25.29	28.01	31.55	34.89	37.60	35.76	
-10	27.00	26.25	26.66	28.35	31.24	35.37	39.16	42.23	40.26	
-5	30.31	29.49	29.93	31.89	35.26	39.72	44.00	47.48	44.10	
0	34.05	33.08	33.57	35.70	39.58	44.54	49.28	51.50	50.35	
5	38.26	37.13	37.68	40.11	44.51	49.74	52.10	53.40	52.60	
10	43.01	41.72	42.36	45.10	49.63	52.10	53.50	54.70	53.90	

