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Appendix B.1

LTE Band 48(3550-3700)



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	22.75	22.53	23.00	Pass
Band48	5MHz	QPSK	55265	1RB#12	22.92	22.67	23.00	Pass
Band48	5MHz	QPSK	55265	1RB#24	22.86	22.64	23.00	Pass
Band48	5MHz	QPSK	55265	25RB#0	21.88	21.66	23.00	Pass
Band48	5MHz	QPSK	55990	1RB#0	22.52	22.3	23.00	Pass
Band48	5MHz	QPSK	55990	1RB#12	22.65	22.43	23.00	Pass
Band48	5MHz	QPSK	55990	1RB#24	22.67	22.45	23.00	Pass
Band48	5MHz	QPSK	55990	25RB#0	21.67	21.45	23.00	Pass
Band48	5MHz	QPSK	56715	1RB#0	22.41	22.19	23.00	Pass
Band48	5MHz	QPSK	56715	1RB#12	22.62	22.4	23.00	Pass
Band48	5MHz	QPSK	56715	1RB#24	22.55	22.33	23.00	Pass
Band48	5MHz	QPSK	56715	25RB#0	21.59	21.37	23.00	Pass
Band48	5MHz	16QAM	55265	1RB#0	21.78	21.56	23.00	Pass
Band48	5MHz	16QAM	55265	1RB#12	21.83	21.61	23.00	Pass
Band48	5MHz	16QAM	55265	1RB#24	21.77	21.55	23.00	Pass
Band48	5MHz	16QAM	55265	25RB#0	20.86	20.64	23.00	Pass
Band48	5MHz	16QAM	55990	1RB#0	21.47	21.25	23.00	Pass
Band48	5MHz	16QAM	55990	1RB#12	21.59	21.37	23.00	Pass
Band48	5MHz	16QAM	55990	1RB#24	21.61	21.39	23.00	Pass
Band48	5MHz	16QAM	55990	25RB#0	20.63	20.41	23.00	Pass
Band48	5MHz	16QAM	56715	1RB#0	21.47	21.25	23.00	Pass
Band48	5MHz	16QAM	56715	1RB#12	21.56	21.34	23.00	Pass
Band48	5MHz	16QAM	56715	1RB#24	21.47	21.25	23.00	Pass
Band48	5MHz	16QAM	56715	25RB#0	20.59	20.37	23.00	Pass
Band48	5MHz	64QAM	55265	1RB#0	20.80	20.58	23.00	Pass
Band48	5MHz	64QAM	55265	1RB#12	20.93	20.71	23.00	Pass
Band48	5MHz	64QAM	55265	1RB#24	20.89	20.67	23.00	Pass



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Band48	5MHz	64QAM	55265	25RB#0	19.85	19.63	23.00	Pass
Band48	5MHz	64QAM	55990	1RB#0	20.60	20.38	23.00	Pass
Band48	5MHz	64QAM	55990	1RB#12	20.76	20.54	23.00	Pass
Band48	5MHz	64QAM	55990	1RB#24	20.64	20.42	23.00	Pass
Band48	5MHz	64QAM	55990	25RB#0	19.60	19.38	23.00	Pass
Band48	5MHz	64QAM	56715	1RB#0	20.62	20.4	23.00	Pass
Band48	5MHz	64QAM	56715	1RB#12	20.66	20.44	23.00	Pass
Band48	5MHz	64QAM	56715	1RB#24	20.64	20.42	23.00	Pass
Band48	5MHz	64QAM	56715	25RB#0	19.58	19.36	23.00	Pass
Band48	5MHz	256QAM	55265	1RB#0	17.74	17.52	23.00	Pass
Band48	5MHz	256QAM	55265	1RB#12	17.84	17.62	23.00	Pass
Band48	5MHz	256QAM	55265	1RB#24	17.79	17.57	23.00	Pass
Band48	5MHz	256QAM	55265	25RB#0	17.87	17.65	23.00	Pass
Band48	5MHz	256QAM	55990	1RB#0	17.38	17.16	23.00	Pass
Band48	5MHz	256QAM	55990	1RB#12	17.62	17.4	23.00	Pass
Band48	5MHz	256QAM	55990	1RB#24	17.53	17.31	23.00	Pass
Band48	5MHz	256QAM	55990	25RB#0	17.67	17.45	23.00	Pass
Band48	5MHz	256QAM	56715	1RB#0	17.52	17.3	23.00	Pass
Band48	5MHz	256QAM	56715	1RB#12	17.49	17.27	23.00	Pass
Band48	5MHz	256QAM	56715	1RB#24	17.53	17.31	23.00	Pass
Band48	5MHz	256QAM	56715	25RB#0	17.61	17.39	23.00	Pass
Band48	10MHz	QPSK	55290	1RB#0	22.83	22.61	23.00	Pass
Band48	10MHz	QPSK	55290	1RB#24	22.83	22.61	23.00	Pass
Band48	10MHz	QPSK	55290	1RB#49	22.85	22.63	23.00	Pass
Band48	10MHz	QPSK	55290	50RB#0	21.87	21.65	23.00	Pass
Band48	10MHz	QPSK	55990	1RB#0	22.53	22.31	23.00	Pass
Band48	10MHz	QPSK	55990	1RB#24	22.64	22.42	23.00	Pass
Band48	10MHz	QPSK	55990	1RB#49	22.63	22.41	23.00	Pass
Band48	10MHz	QPSK	55990	50RB#0	21.68	21.46	23.00	Pass
Band48	10MHz	QPSK	56690	1RB#0	22.38	22.16	23.00	Pass
Band48	10MHz	QPSK	56690	1RB#24	22.55	22.33	23.00	Pass
Band48	10MHz	QPSK	56690	1RB#49	22.51	22.29	23.00	Pass



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Band48	10MHz	QPSK	56690	50RB#0	21.62	21.4	23.00	Pass
Band48	10MHz	16QAM	55290	1RB#0	21.82	21.6	23.00	Pass
Band48	10MHz	16QAM	55290	1RB#24	21.92	21.7	23.00	Pass
Band48	10MHz	16QAM	55290	1RB#49	21.72	21.5	23.00	Pass
Band48	10MHz	16QAM	55290	50RB#0	20.90	20.68	23.00	Pass
Band48	10MHz	16QAM	55990	1RB#0	21.54	21.32	23.00	Pass
Band48	10MHz	16QAM	55990	1RB#24	21.58	21.36	23.00	Pass
Band48	10MHz	16QAM	55990	1RB#49	21.67	21.45	23.00	Pass
Band48	10MHz	16QAM	55990	50RB#0	20.66	20.44	23.00	Pass
Band48	10MHz	16QAM	56690	1RB#0	21.47	21.25	23.00	Pass
Band48	10MHz	16QAM	56690	1RB#24	21.53	21.31	23.00	Pass
Band48	10MHz	16QAM	56690	1RB#49	21.55	21.33	23.00	Pass
Band48	10MHz	16QAM	56690	50RB#0	20.61	20.39	23.00	Pass
Band48	10MHz	64QAM	55290	1RB#0	20.88	20.66	23.00	Pass
Band48	10MHz	64QAM	55290	1RB#24	21.02	20.8	23.00	Pass
Band48	10MHz	64QAM	55290	1RB#49	20.87	20.65	23.00	Pass
Band48	10MHz	64QAM	55290	50RB#0	19.91	19.69	23.00	Pass
Band48	10MHz	64QAM	55990	1RB#0	20.58	20.36	23.00	Pass
Band48	10MHz	64QAM	55990	1RB#24	20.73	20.51	23.00	Pass
Band48	10MHz	64QAM	55990	1RB#49	20.77	20.55	23.00	Pass
Band48	10MHz	64QAM	55990	50RB#0	19.67	19.45	23.00	Pass
Band48	10MHz	64QAM	56690	1RB#0	20.50	20.28	23.00	Pass
Band48	10MHz	64QAM	56690	1RB#24	20.61	20.39	23.00	Pass
Band48	10MHz	64QAM	56690	1RB#49	20.62	20.4	23.00	Pass
Band48	10MHz	64QAM	56690	50RB#0	19.60	19.38	23.00	Pass
Band48	10MHz	256QAM	55290	1RB#0	17.76	17.54	23.00	Pass
Band48	10MHz	256QAM	55290	1RB#24	17.86	17.64	23.00	Pass
Band48	10MHz	256QAM	55290	1RB#49	17.83	17.61	23.00	Pass
Band48	10MHz	256QAM	55290	50RB#0	17.93	17.71	23.00	Pass
Band48	10MHz	256QAM	55990	1RB#0	17.44	17.22	23.00	Pass
Band48	10MHz	256QAM	55990	1RB#24	17.67	17.45	23.00	Pass
Band48	10MHz	256QAM	55990	1RB#49	17.62	17.4	23.00	Pass



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Band48	10MHz	256QAM	55990	50RB#0	17.70	17.48	23.00	Pass
Band48	10MHz	256QAM	56690	1RB#0	17.38	17.16	23.00	Pass
Band48	10MHz	256QAM	56690	1RB#24	17.55	17.33	23.00	Pass
Band48	10MHz	256QAM	56690	1RB#49	17.55	17.33	23.00	Pass
Band48	10MHz	256QAM	56690	50RB#0	17.60	17.38	23.00	Pass
Band48	15MHz	QPSK	55315	1RB#0	22.54	22.32	23.00	Pass
Band48	15MHz	QPSK	55315	1RB#38	22.67	22.45	23.00	Pass
Band48	15MHz	QPSK	55315	1RB#74	22.66	22.44	23.00	Pass
Band48	15MHz	QPSK	55315	75RB#0	21.77	21.55	23.00	Pass
Band48	15MHz	QPSK	55990	1RB#0	22.21	21.99	23.00	Pass
Band48	15MHz	QPSK	55990	1RB#38	22.40	22.18	23.00	Pass
Band48	15MHz	QPSK	55990	1RB#74	22.51	22.29	23.00	Pass
Band48	15MHz	QPSK	55990	75RB#0	21.55	21.33	23.00	Pass
Band48	15MHz	QPSK	56665	1RB#0	22.25	22.03	23.00	Pass
Band48	15MHz	QPSK	56665	1RB#38	22.42	22.2	23.00	Pass
Band48	15MHz	QPSK	56665	1RB#74	22.48	22.26	23.00	Pass
Band48	15MHz	QPSK	56665	75RB#0	21.45	21.23	23.00	Pass
Band48	15MHz	16QAM	55315	1RB#0	21.47	21.25	23.00	Pass
Band48	15MHz	16QAM	55315	1RB#38	21.61	21.39	23.00	Pass
Band48	15MHz	16QAM	55315	1RB#74	21.63	21.41	23.00	Pass
Band48	15MHz	16QAM	55315	75RB#0	20.78	20.56	23.00	Pass
Band48	15MHz	16QAM	55990	1RB#0	21.28	21.06	23.00	Pass
Band48	15MHz	16QAM	55990	1RB#38	21.32	21.1	23.00	Pass
Band48	15MHz	16QAM	55990	1RB#74	21.48	21.26	23.00	Pass
Band48	15MHz	16QAM	55990	75RB#0	20.52	20.3	23.00	Pass
Band48	15MHz	16QAM	56665	1RB#0	21.33	21.11	23.00	Pass
Band48	15MHz	16QAM	56665	1RB#38	21.45	21.23	23.00	Pass
Band48	15MHz	16QAM	56665	1RB#74	21.33	21.11	23.00	Pass
Band48	15MHz	16QAM	56665	75RB#0	20.42	20.2	23.00	Pass
Band48	15MHz	64QAM	55315	1RB#0	20.71	20.49	23.00	Pass
Band48	15MHz	64QAM	55315	1RB#38	20.76	20.54	23.00	Pass
Band48	15MHz	64QAM	55315	1RB#74	20.64	20.42	23.00	Pass



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Band48	15MHz	64QAM	55990	1RB#0	20.42	20.2	23.00	Pass
Band48	15MHz	64QAM	55990	1RB#38	20.49	20.27	23.00	Pass
Band48	15MHz	64QAM	55990	1RB#74	20.55	20.33	23.00	Pass
Band48	15MHz	64QAM	55990	75RB#0	19.51	19.29	23.00	Pass
Band48	15MHz	64QAM	56665	1RB#0	20.35	20.13	23.00	Pass
Band48	15MHz	64QAM	56665	1RB#38	20.39	20.17	23.00	Pass
Band48	15MHz	64QAM	56665	1RB#74	20.45	20.23	23.00	Pass
Band48	15MHz	64QAM	56665	75RB#0	19.44	19.22	23.00	Pass
Band48	15MHz	256QAM	55315	1RB#0	17.48	17.26	23.00	Pass
Band48	15MHz	256QAM	55315	1RB#38	17.72	17.5	23.00	Pass
Band48	15MHz	256QAM	55315	1RB#74	17.49	17.27	23.00	Pass
Band48	15MHz	256QAM	55315	75RB#0	17.77	17.55	23.00	Pass
Band48	15MHz	256QAM	55990	1RB#0	17.29	17.07	23.00	Pass
Band48	15MHz	256QAM	55990	1RB#38	17.44	17.22	23.00	Pass
Band48	15MHz	256QAM	55990	1RB#74	17.50	17.28	23.00	Pass
Band48	15MHz	256QAM	55990	75RB#0	17.50	17.28	23.00	Pass
Band48	15MHz	256QAM	56665	1RB#0	17.18	16.96	23.00	Pass
Band48	15MHz	256QAM	56665	1RB#38	17.19	16.97	23.00	Pass
Band48	15MHz	256QAM	56665	1RB#74	17.35	17.13	23.00	Pass
Band48	15MHz	256QAM	56665	75RB#0	17.47	17.25	23.00	Pass
Band48	20MHz	QPSK	55340	1RB#0	22.56	22.34	23.00	Pass
Band48	20MHz	QPSK	55340	1RB#49	22.61	22.39	23.00	Pass
Band48	20MHz	QPSK	55340	1RB#99	22.73	22.51	23.00	Pass
Band48	20MHz	QPSK	55340	100RB#0	21.79	21.57	23.00	Pass
Band48	20MHz	QPSK	55990	1RB#0	22.38	22.16	23.00	Pass
Band48	20MHz	QPSK	55990	1RB#49	22.42	22.2	23.00	Pass
Band48	20MHz	QPSK	55990	1RB#99	22.52	22.3	23.00	Pass
Band48	20MHz	QPSK	55990	100RB#0	21.54	21.32	23.00	Pass
Band48	20MHz	QPSK	56640	1RB#0	22.29	22.07	23.00	Pass
Band48	20MHz	QPSK	56640	1RB#49	22.40	22.18	23.00	Pass
Band48	20MHz	QPSK	56640	1RB#99	22.36	22.14	23.00	Pass



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Band48	20MHz	QPSK	56640	100RB#0	21.46	21.24	23.00	Pass
Band48	20MHz	16QAM	55340	1RB#0	21.48	21.26	23.00	Pass
Band48	20MHz	16QAM	55340	1RB#49	21.65	21.43	23.00	Pass
Band48	20MHz	16QAM	55340	1RB#99	21.71	21.49	23.00	Pass
Band48	20MHz	16QAM	55340	100RB#0	20.76	20.54	23.00	Pass
Band48	20MHz	16QAM	55990	1RB#0	21.18	20.96	23.00	Pass
Band48	20MHz	16QAM	55990	1RB#49	21.32	21.1	23.00	Pass
Band48	20MHz	16QAM	55990	1RB#99	21.56	21.34	23.00	Pass
Band48	20MHz	16QAM	55990	100RB#0	20.55	20.33	23.00	Pass
Band48	20MHz	16QAM	56640	1RB#0	21.17	20.95	23.00	Pass
Band48	20MHz	16QAM	56640	1RB#49	21.31	21.09	23.00	Pass
Band48	20MHz	16QAM	56640	1RB#99	21.36	21.14	23.00	Pass
Band48	20MHz	16QAM	56640	100RB#0	20.45	20.23	23.00	Pass
Band48	20MHz	64QAM	55340	1RB#0	20.68	20.46	23.00	Pass
Band48	20MHz	64QAM	55340	1RB#49	20.70	20.48	23.00	Pass
Band48	20MHz	64QAM	55340	1RB#99	20.76	20.54	23.00	Pass
Band48	20MHz	64QAM	55340	100RB#0	19.77	19.55	23.00	Pass
Band48	20MHz	64QAM	55990	1RB#0	20.24	20.02	23.00	Pass
Band48	20MHz	64QAM	55990	1RB#49	20.51	20.29	23.00	Pass
Band48	20MHz	64QAM	55990	1RB#99	20.61	20.39	23.00	Pass
Band48	20MHz	64QAM	55990	100RB#0	19.55	19.33	23.00	Pass
Band48	20MHz	64QAM	56640	1RB#0	20.43	20.21	23.00	Pass
Band48	20MHz	64QAM	56640	1RB#49	20.54	20.32	23.00	Pass
Band48	20MHz	64QAM	56640	1RB#99	20.43	20.21	23.00	Pass
Band48	20MHz	64QAM	56640	100RB#0	19.45	19.23	23.00	Pass
Band48	20MHz	256QAM	55340	1RB#0	17.56	17.34	23.00	Pass
Band48	20MHz	256QAM	55340	1RB#49	17.58	17.36	23.00	Pass
Band48	20MHz	256QAM	55340	1RB#99	17.74	17.52	23.00	Pass
Band48	20MHz	256QAM	55340	100RB#0	17.74	17.52	23.00	Pass
Band48	20MHz	256QAM	55990	1RB#0	17.16	16.94	23.00	Pass
Band48	20MHz	256QAM	55990	1RB#49	17.41	17.19	23.00	Pass
Band48	20MHz	256QAM	55990	1RB#99	17.50	17.28	23.00	Pass



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Band48	20MHz	256QAM	55990	100RB#0	17.51	17.29	23.00	Pass
Band48	20MHz	256QAM	56640	1RB#0	17.19	16.97	23.00	Pass
Band48	20MHz	256QAM	56640	1RB#49	17.28	17.06	23.00	Pass
Band48	20MHz	256QAM	56640	1RB#99	17.32	17.1	23.00	Pass
Band48	20MHz	256QAM	56640	100RB#0	17.42	17.2	23.00	Pass



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Field Strength of Spurious Radiation

Test Band = LTE Band 48 3550M-3700M_ TM1

Test Channel = Low Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8015.125	40.79	-40.50	37.11	-57.86	-40.00	17.86	102	186	Horizontal
2	13084.2292	36.38	-34.66	39.66	-53.88	-40.00	13.88	265	345	Horizontal
3	7102.18	48.84	-42.23	36.12	-52.52	-40.00	12.52	254	150	Horizontal
4	10653.27	34.58	-36.02	38.23	-58.47	-40.00	18.47	185	335	Horizontal
5	14204.36	34.13	-34.87	40.26	-55.75	-40.00	15.75	263	221	Horizontal
6	17755.45	31.40	-30.96	40.71	-54.10	-40.00	14.10	227	360	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9497.6667	40.01	-38.09	37.75	-55.59	-40.00	15.59	185	9	Vertical
2	12227.4792	36.02	-35.13	38.67	-55.70	-40.00	15.70	263	345	Vertical
3	7102.18	43.01	-42.23	36.12	-58.35	-40.00	18.35	254	356	Vertical
4	10653.27	35.05	-36.02	38.23	-58.00	-40.00	18.00	142	357	Vertical
5	14204.36	34.09	-34.87	40.26	-55.79	-40.00	15.79	263	90	Vertical
6	17755.45	30.95	-30.96	40.71	-54.55	-40.00	14.55	232	345	Vertical



Test Band = LTE Band 48 3550M-3700M_ TM1
Test Channel = Mid Channel
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7799.5	43.21	-40.88	36.90	-56.03	-40.00	16.03	254	179	Horizontal
2	9589.1875	39.13	-37.81	37.78	-56.17	-40.00	16.17	142	143	Horizontal
3	12921.3125	36.52	-34.95	39.51	-54.18	-40.00	14.18	263	215	Horizontal
4	7232.18	41.52	-42.00	36.28	-59.46	-40.00	19.46	225	179	Horizontal
5	10848.27	34.83	-35.61	38.32	-57.72	-40.00	17.72	185	197	Horizontal
6	14464.36	34.30	-35.01	40.21	-55.76	-40.00	15.76	226	252	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7232.1667	43.34	-42.00	36.28	-57.64	-40.00	17.64	265	210	Vertical
2	8533.1042	39.77	-39.66	37.37	-57.78	-40.00	17.78	284	3	Vertical
3	12920.8333	36.31	-34.95	39.50	-54.39	-40.00	14.39	142	280	Vertical
4	16210.3125	34.56	-32.08	38.35	-54.43	-40.00	14.43	263	16	Vertical
5	10848.27	34.93	-35.61	38.32	-57.62	-40.00	17.62	221	16	Vertical
6	14464.36	34.18	-35.01	40.21	-55.88	-40.00	15.88	185	360	Vertical



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Test Band = LTE Band 48 3550M-3700M_ TM1

Test Channel = High Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7983.9792	40.67	-40.57	37.08	-58.07	-40.00	18.07	152	239	Horizontal
2	9548.9375	39.26	-37.94	37.76	-56.18	-40.00	16.18	265	291	Horizontal
3	13386.5833	36.22	-34.98	39.87	-54.15	-40.00	14.15	254	291	Horizontal
4	7362.18	41.82	-41.89	36.44	-58.90	-40.00	18.90	142	274	Horizontal
5	11043.27	34.21	-35.46	38.40	-58.11	-40.00	18.11	201	80	Horizontal
6	14724.36	32.13	-34.33	40.16	-57.31	-40.00	17.31	114	291	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8914.5208	39.63	-38.91	37.56	-56.98	-40.00	16.98	163	173	Vertical
2	13449.3542	35.93	-34.47	39.91	-53.89	-40.00	13.89	254	360	Vertical
3	16867.25	34.93	-32.24	38.81	-53.76	-40.00	13.76	185	173	Vertical
4	7362.18	40.78	-41.89	36.44	-59.94	-40.00	19.94	122	173	Vertical
5	11043.27	34.10	-35.46	38.40	-58.22	-40.00	18.22	263	228	Vertical
6	14724.36	32.86	-34.33	40.16	-56.58	-40.00	16.58	228	339	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---

