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Appendix B.3

LTE Band 5

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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
Band5	1.4MHz	QPSK	20407	1RB#0	23.03	22.34	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.07	22.38	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.02	22.33	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.05	21.36	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.16	22.47	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.03	22.34	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.01	22.32	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.91	21.22	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.98	22.29	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.08	22.39	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.09	22.4	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.03	21.34	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.21	21.52	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.23	21.54	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.07	21.38	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.1	20.41	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.18	21.49	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.11	21.42	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.93	21.24	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.94	20.25	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.12	21.43	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.21	21.52	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.19	21.5	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.09	20.4	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.08	21.39	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.25	20.56	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.13	20.44	38.45	PASS

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Band5	1.4MHz	64QAM	20407	6RB#0	20.05	19.36	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21	20.31	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.01	20.32	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.08	20.39	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.94	19.25	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.02	20.33	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.21	20.52	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.23	20.54	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.12	19.43	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	18.16	17.47	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	18.16	17.47	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	17.95	17.26	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	18.08	17.39	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	18.07	17.38	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	18.22	17.53	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	18.09	17.4	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	18.01	17.32	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	18.23	17.54	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	18.24	17.55	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	18.08	17.39	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	18.07	17.38	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.94	22.25	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.06	22.37	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.97	22.28	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.04	21.35	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.12	22.43	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.04	22.35	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.92	22.23	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.98	21.29	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.21	22.52	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.14	22.45	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.02	22.33	38.45	PASS

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Band5	3MHz	QPSK	20635	15RB#0	21.99	21.3	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.13	21.44	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.42	21.73	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.11	21.42	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.06	20.37	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.05	21.36	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.15	21.46	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.15	21.46	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.99	20.3	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.09	21.4	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.3	21.61	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.08	21.39	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.96	20.27	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.1	20.41	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	21.27	20.58	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.08	20.39	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.06	19.37	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.1	20.41	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.18	20.49	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.03	20.34	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.02	19.33	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.26	20.57	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.16	20.47	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.24	20.55	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.05	19.36	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	17.88	17.19	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	18.06	17.37	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	18.12	17.43	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	18.13	17.44	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	18.1	17.41	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	18.25	17.56	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	18.19	17.5	38.45	PASS

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Band5	3MHz	256QAM	20635	1RB#0	18.04	17.35	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	18.1	17.41	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	18.2	17.51	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	18.07	17.38	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.11	22.42	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.16	22.47	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.12	22.43	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.07	21.38	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.98	22.29	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.07	22.38	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.1	22.41	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.06	21.37	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.85	22.16	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.06	22.37	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.03	22.34	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.02	21.33	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.32	21.63	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.2	21.51	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.1	21.41	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.07	20.38	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.2	21.51	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.32	21.63	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.23	21.54	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.04	20.35	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.23	21.54	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.11	21.42	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.12	21.43	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.03	20.34	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.23	20.54	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.35	20.66	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.2	20.51	38.45	PASS

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Band5	5MHz	64QAM	20525	1RB#0	21.35	20.66	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.17	20.48	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.22	20.53	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.05	19.36	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.23	20.54	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.26	20.57	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.23	20.54	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.05	19.36	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	18.34	17.65	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	18.23	17.54	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	18.16	17.47	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	18.16	17.47	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	18.24	17.55	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	18.18	17.49	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	18.15	17.46	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	18.06	17.37	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	18.2	17.51	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	18.37	17.68	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	18.27	17.58	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	18.07	17.38	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.98	22.29	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.98	22.29	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.97	22.28	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.13	21.44	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.25	22.56	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.05	22.36	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23	22.31	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.05	21.36	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.45	22.76	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.07	22.38	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.1	22.41	38.45	PASS

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Band5	10MHz	QPSK	20600	50RB#0	22.1	21.41	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.14	21.45	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.25	21.56	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.12	21.43	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.14	20.45	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.2	21.51	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.26	21.57	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.2	21.51	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21	20.31	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.2	21.51	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.17	21.48	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.09	21.4	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.09	20.4	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.26	20.57	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.06	20.37	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.01	20.32	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.16	19.47	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.09	20.4	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.3	20.61	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.15	20.46	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.07	19.38	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.22	20.53	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.24	20.55	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.23	20.54	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.07	19.38	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	18.02	17.33	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	18.24	17.55	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	18.21	17.52	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	18.13	17.44	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	18.07	17.38	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	18.21	17.52	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	18.19	17.5	38.45	PASS

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Band5	10MHz	256QAM	20525	50RB#0	18.12	17.43	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	18.02	17.33	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	18.17	17.48	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	18.12	17.43	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	18.07	17.38	38.45	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band5_TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1429	68.84	-48.22	25.37	-49.27	-13.00	36.27	145	68	Horizontal
2	2473.7143	66.65	-47.32	27.68	-48.24	-13.00	35.24	125	268	Horizontal
3	3298.2857	57.88	-46.67	29.56	-54.50	-13.00	41.50	156	268	Horizontal
4	4122.8571	51.60	-45.91	30.98	-58.59	-13.00	45.59	192	163	Horizontal
5	4947.4286	52.76	-45.69	32.73	-55.46	-13.00	42.46	123	322	Horizontal
6	5772	47.19	-44.63	33.65	-59.06	-13.00	46.06	210	201	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1429	67.74	-48.22	25.37	-50.37	-13.00	37.37	142	275	Vertical
2	2473.7143	63.90	-47.32	27.68	-50.99	-13.00	37.99	159	2	Vertical
3	3298.2857	63.61	-46.67	29.56	-48.77	-13.00	35.77	165	302	Vertical
4	4122.8571	65.84	-45.91	30.98	-44.35	-13.00	31.35	142	288	Vertical
5	4947.4286	69.73	-45.69	32.73	-38.49	-13.00	25.49	133	275	Vertical
6	5772	60.20	-44.63	33.65	-46.05	-13.00	33.05	265	208	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = Mid

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1664	62.51	-48.20	25.38	-55.58	-13.00	42.58	241	307	Horizontal	
2	2496.2700	57.34	-47.28	27.76	-57.44	-13.00	44.44	152	307	Horizontal	
3	3328.3600	55.14	-46.64	29.52	-57.24	-13.00	44.24	136	281	Horizontal	
4	4160.4500	44.81	-45.94	31.04	-65.35	-13.00	52.35	258	9	Horizontal	
5	4992	51.99	-45.79	32.86	-56.20	-13.00	43.20	196	268	Horizontal	
6	5824.5714	43.62	-44.74	33.80	-62.58	-13.00	49.58	140	0	Horizontal	

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1664	61.49	-48.20	25.38	-56.60	-13.00	43.60	152	238	Vertical	
2	2496	57.65	-47.28	27.76	-57.13	-13.00	44.13	145	264	Vertical	
3	3328.3600	61.22	-46.64	29.52	-51.16	-13.00	38.16	186	319	Vertical	
4	4160.4500	54.85	-45.94	31.04	-55.31	-13.00	42.31	135	293	Vertical	
5	4992.5400	55.61	-45.79	32.86	-52.58	-13.00	39.58	129	252	Vertical	
6	5824.5714	54.78	-44.74	33.80	-51.42	-13.00	38.42	199	278	Vertical	



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Test Band = LTE Band5_ TM1

Test Channel = High

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1679.1800	61.32	-48.18	25.38	-56.74	-13.00	43.74	211	189	Horizontal	
2	2518.7700	54.69	-47.21	27.83	-59.94	-13.00	46.94	145	189	Horizontal	
3	3358.2857	48.95	-46.60	29.48	-63.43	-13.00	50.43	186	281	Horizontal	
4	4197.9500	41.79	-45.96	31.10	-68.33	-13.00	55.33	125	267	Horizontal	
5	4992	52.69	-45.79	32.86	-55.50	-13.00	42.50	133	254	Horizontal	
6	5887.1300	40.63	-44.93	33.92	-65.64	-13.00	52.64	239	108	Horizontal	

Final Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1679.1800	63.01	-48.18	25.38	-55.05	-13.00	42.05	211	263	Vertical	
2	2518.7700	56.50	-47.21	27.83	-58.13	-13.00	45.13	148	263	Vertical	
3	3358.2857	55.85	-46.60	29.48	-56.53	-13.00	43.53	159	316	Vertical	
4	4197.9500	48.88	-45.96	31.10	-61.24	-13.00	48.24	136	263	Vertical	
5	4992	49.89	-45.79	32.86	-58.30	-13.00	45.30	256	277	Vertical	
6	5877.1429	43.79	-44.90	33.90	-62.47	-13.00	49.47	175	277	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---



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