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Appendix B.4

LTE Band 5



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.24	21.41	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.27	21.44	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	21.71	20.88	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.23	20.4	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.1	20.27	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	21.75	20.92	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.56	20.73	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.11	20.28	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	20.99	20.16	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.95	21.12	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.43	20.6	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.98	20.15	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.38	20.55	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.46	20.63	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	20.85	20.02	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.26	19.43	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.29	20.46	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.23	20.4	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	20.7	19.87	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.04	19.21	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.08	20.25	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.09	20.26	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.06	20.23	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	19.98	19.15	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	20.45	19.62	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	20.47	19.64	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	19.93	19.1	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	19.2	18.37	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	20.22	19.39	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	20.12	19.29	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.15	19.32	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.09	18.26	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	20.17	19.34	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	20.05	19.22	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	19.6	18.77	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	18.97	18.14	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	17.5	16.67	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	17.47	16.64	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	17.4	16.57	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	17.35	16.52	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	17.33	16.5	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	17.35	16.52	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	17.28	16.45	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	17.2	16.37	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	17.19	16.36	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	17.18	16.35	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	17.19	16.36	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	17.1	16.27	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.41	21.58	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.39	21.56	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.37	21.54	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.36	20.53	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	20.36	19.53	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.2	21.37	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.19	21.36	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.23	20.4	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	20.12	19.29	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.02	21.19	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.07	21.24	38.45	PASS



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Band5	3MHz	QPSK	20635	15RB#0	21.06	20.23	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.72	20.89	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.58	20.75	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.52	20.69	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.32	19.49	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.4	20.57	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.35	20.52	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.29	20.46	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.26	19.43	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.18	20.35	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.17	20.34	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.12	20.29	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.03	19.2	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	20.57	19.74	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	20.54	19.71	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.53	19.7	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.34	18.51	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	20.43	19.6	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	20.34	19.51	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	20.33	19.5	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.21	18.38	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	20.26	19.43	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	20.2	19.37	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	20.18	19.35	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	19.03	18.2	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	17.67	16.84	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	17.58	16.75	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	17.51	16.68	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	17.5	16.67	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	17.45	16.62	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	17.47	16.64	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	17.43	16.6	38.45	PASS



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Band5	3MHz	256QAM	20525	15RB#0	17.4	16.57	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	17.31	16.48	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	17.28	16.45	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	17.33	16.5	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	17.2	16.37	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.46	21.63	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.46	21.63	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.39	21.56	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.35	20.52	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	21.73	20.9	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.29	21.46	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.22	21.39	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.31	20.48	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.44	20.61	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.15	21.32	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.09	21.26	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.08	20.25	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.56	20.73	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.57	20.74	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.46	20.63	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.34	19.51	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.43	20.6	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.46	20.63	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.31	20.48	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.29	19.46	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.27	20.44	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.23	20.4	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.24	20.41	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.05	19.22	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	20.54	19.71	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	20.57	19.74	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	20.54	19.71	38.45	PASS



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Band5	5MHz	64QAM	20525	1RB#0	20.48	19.65	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	20.44	19.61	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	20.39	19.56	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.23	18.4	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	20.29	19.46	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	20.34	19.51	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.24	19.41	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	18.99	18.16	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	17.69	16.86	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	17.56	16.73	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	17.56	16.73	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	17.5	16.67	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	17.5	16.67	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	17.54	16.71	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	17.37	16.54	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	17.4	16.57	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	17.32	16.49	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	17.34	16.51	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	17.36	16.53	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	17.19	16.36	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.41	21.58	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.41	21.58	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.29	21.46	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.34	20.51	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.64	20.81	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.26	21.43	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.2	21.37	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.34	20.51	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.51	20.68	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.14	21.31	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.04	21.21	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	21.08	20.25	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.53	20.7	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.62	20.79	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.42	20.59	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.33	19.5	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.42	20.59	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.44	20.61	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.34	20.51	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.33	19.5	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.32	20.49	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.26	20.43	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.17	20.34	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.04	19.21	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	20.56	19.73	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	20.55	19.72	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	20.45	19.62	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.31	18.48	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	20.47	19.64	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	20.48	19.65	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	20.32	19.49	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.28	18.45	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	20.34	19.51	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	20.29	19.46	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	20.22	19.39	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	19.02	18.19	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	17.63	16.8	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	17.61	16.78	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	17.5	16.67	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	17.46	16.63	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	17.62	16.79	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	17.45	16.62	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	17.37	16.54	38.45	PASS



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Band5	10MHz	256QAM	20525	50RB#0	17.46	16.63	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	17.39	16.56	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	17.36	16.53	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	17.31	16.48	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	17.16	16.33	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 [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	43.30	-48.22	25.37	-74.81	-13.00	61.81	256	175	Horizontal
2	2473.7700	42.08	-47.32	27.69	-72.81	-13.00	59.81	236	4	Horizontal
3	3298.3600	42.61	-46.68	29.56	-69.77	-13.00	56.77	291	186	Horizontal
4	4122.9500	40.90	-45.91	30.99	-69.29	-13.00	56.29	145	307	Horizontal
5	4947.5400	41.24	-45.69	32.73	-66.98	-13.00	53.98	128	254	Horizontal
6	5772.1300	39.75	-44.64	33.65	-66.50	-13.00	53.50	126	1	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	1649.1800	43.44	-48.22	25.37	-74.67	-13.00	61.67	245	161	Vertical
2	2473.7700	42.37	-47.32	27.69	-72.52	-13.00	59.52	129	347	Vertical
3	3298.3600	41.97	-46.68	29.56	-70.41	-13.00	57.41	156	174	Vertical
4	4122.9500	41.06	-45.91	30.99	-69.13	-13.00	56.13	135	284	Vertical
5	4947.5400	40.91	-45.69	32.73	-67.31	-13.00	54.31	174	13	Vertical
6	5772.1300	39.73	-44.64	33.65	-66.52	-13.00	53.52	169	4	Vertical



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Test Band = LTE Band5_ TM1
Test Channel = Mid
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	42.71	-48.20	25.38	-75.38	-13.00	62.38	216	174	Horizontal
2	2496.2700	42.20	-47.28	27.76	-72.58	-13.00	59.58	148	251	Horizontal
3	3328.3600	42.27	-46.64	29.52	-70.11	-13.00	57.11	199	226	Horizontal
4	4160.4500	40.52	-45.94	31.04	-69.64	-13.00	56.64	163	52	Horizontal
5	4992.5400	40.85	-45.79	32.86	-67.34	-13.00	54.34	251	14	Horizontal
6	5824.6300	39.51	-44.74	33.80	-66.69	-13.00	53.69	175	24	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	1664.1800	42.87	-48.20	25.38	-75.22	-13.00	62.22	213	146	Vertical
2	2496.2700	42.64	-47.28	27.76	-72.14	-13.00	59.14	254	146	Vertical
3	3328.3600	42.16	-46.64	29.52	-70.22	-13.00	57.22	145	172	Vertical
4	4160.4500	40.98	-45.94	31.04	-69.18	-13.00	56.18	192	357	Vertical
5	4992.5400	40.49	-45.79	32.86	-67.70	-13.00	54.70	163	65	Vertical
6	5824.6300	39.40	-44.74	33.80	-66.80	-13.00	53.80	256	281	Vertical



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Test Band = LTE Band5_ TM1

Test Channel = High

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	43.10	-48.18	25.38	-74.96	-13.00	61.96	244	71	Horizontal
2	2518.7700	42.48	-47.21	27.83	-72.15	-13.00	59.15	175	1	Horizontal
3	3358.3600	41.87	-46.60	29.48	-70.51	-13.00	57.51	145	162	Horizontal
4	4197.9500	40.17	-45.96	31.10	-69.95	-13.00	56.95	136	109	Horizontal
5	5037.5400	40.54	-45.65	32.90	-67.47	-13.00	54.47	256	1	Horizontal
6	5887.1300	40.63	-44.93	33.92	-65.64	-13.00	52.64	162	1	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	1679.1800	43.04	-48.18	25.38	-75.02	-13.00	62.02	258	26	Vertical
2	2518.7700	43.01	-47.21	27.83	-71.62	-13.00	58.62	147	172	Vertical
3	3358.3600	41.87	-46.60	29.48	-70.51	-13.00	57.51	123	241	Vertical
4	4197.9500	41.42	-45.96	31.10	-68.70	-13.00	55.70	265	160	Vertical
5	5037.5400	39.81	-45.65	32.90	-68.20	-13.00	55.20	192	26	Vertical
6	5887.1300	39.93	-44.93	33.92	-66.34	-13.00	53.34	147	256	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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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