

# 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	22.4	21.89	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.39	21.88	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.37	21.86	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.44	20.93	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.34	21.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.34	21.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.31	21.8	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.34	20.83	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.28	20.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.25	21.74	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.21	21.7	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.23	20.72	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.55	21.04	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.58	21.07	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.41	20.9	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.38	19.87	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.43	20.92	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.53	21.02	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.42	20.91	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.34	19.83	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.41	20.9	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.39	20.88	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.32	20.81	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.23	19.72	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	20.47	19.96	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	20.59	20.08	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	20.57	20.06	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	19.35	18.84	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	20.54	20.03	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	20.51	20	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.54	20.03	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.26	18.75	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	20.4	19.89	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	20.43	19.92	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	20.29	19.78	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.21	18.7	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	18.52	18.01	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	18.69	18.18	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	17.96	17.45	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	18.55	18.04	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	18.63	18.12	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	18.75	18.24	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	17.69	17.18	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	18.56	18.05	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	18.98	18.47	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	18.75	18.24	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	17.65	17.14	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	18.58	18.07	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.38	21.87	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.38	21.87	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.35	21.84	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.38	20.87	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.28	21.77	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.3	21.79	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.33	21.82	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.31	20.8	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	20.15	19.64	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.19	21.68	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.2	21.69	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.26	20.75	38.45	PASS



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Band5	3MHz	16QAM	20415	1RB#0	21.53	21.02	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.55	21.04	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.47	20.96	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.34	19.83	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.46	20.95	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.55	21.04	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.52	21.01	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.33	19.82	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.42	20.91	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.32	20.81	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.32	20.81	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.23	19.72	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	20.53	20.02	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	20.62	20.11	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.49	19.98	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.38	18.87	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	20.46	19.95	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	20.49	19.98	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	20.51	20	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.32	18.81	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	20.43	19.92	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	20.37	19.86	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	20.4	19.89	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	19.24	18.73	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	18.56	18.05	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	18.79	18.28	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	17.52	17.01	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	18.79	18.28	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	18.69	18.18	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	18.56	18.05	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	18.65	18.14	38.45	PASS
Band5	3MHz	256QAM	20525	15RB#0	17.85	17.34	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	18.63	18.12	38.45	PASS



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Band5	3MHz	256QAM	20635	1RB#8	18.75	18.24	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	18.66	18.15	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	17.69	17.18	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.44	21.93	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.44	21.93	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.39	21.88	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.35	20.84	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.42	21.91	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.42	21.91	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.32	21.81	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.39	20.88	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.12	20.61	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.36	21.85	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.21	21.7	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.24	20.73	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.58	21.07	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.53	21.02	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.52	21.01	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.36	19.85	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.61	21.1	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.53	21.02	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.4	20.89	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.35	19.84	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.45	20.94	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.41	20.9	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.32	20.81	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.22	19.71	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	20.57	20.06	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	20.54	20.03	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	20.53	20.02	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.34	18.83	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	20.58	20.07	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	20.62	20.11	38.45	PASS



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Band5	5MHz	64QAM	20525	1RB#24	20.5	19.99	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.32	18.81	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	20.41	19.9	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	20.48	19.97	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.39	19.88	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.2	18.69	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	18.85	18.34	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	18.78	18.27	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	18.69	18.18	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	17.65	17.14	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	18.63	18.12	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	18.78	18.27	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	18.96	18.45	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	17.66	17.15	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	18.58	18.07	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	18.78	18.27	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	18.66	18.15	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	17.69	17.18	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.4	21.89	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.41	21.9	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.33	21.82	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.37	20.86	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.43	21.92	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.38	21.87	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.29	21.78	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.43	20.92	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	19.92	19.41	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.31	21.8	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.21	21.7	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.24	20.73	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.56	21.05	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.57	21.06	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.44	20.93	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	20.32	19.81	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.58	21.07	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.5	20.99	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.41	20.9	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.39	19.88	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.46	20.95	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.44	20.93	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.32	20.81	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.2	19.69	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	20.59	20.08	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	20.6	20.09	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	20.53	20.02	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.35	18.84	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	20.61	20.1	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	20.56	20.05	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	20.52	20.01	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.37	18.86	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	20.45	19.94	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	20.45	19.94	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	20.42	19.91	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	19.17	18.66	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	18.63	18.12	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	18.58	18.07	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	18.77	18.26	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	17.63	17.12	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	18.54	18.03	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	18.74	18.23	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	18.36	17.85	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	17.55	17.04	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	18.65	18.14	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	18.74	18.23	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	18.78	18.27	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	17.96	17.45	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	1649.1429	67.44	-48.22	25.37	-50.67	-13.00	37.67	245	197	Horizontal
2	2473.7700	50.02	-47.32	27.69	-64.87	-13.00	51.87	135	226	Horizontal
3	3298.3600	49.80	-46.68	29.56	-62.58	-13.00	49.58	126	3	Horizontal
4	4122.9500	48.29	-45.91	30.99	-61.90	-13.00	48.90	296	38	Horizontal
5	4947.5400	47.76	-45.69	32.73	-60.46	-13.00	47.46	251	359	Horizontal
6	5772.1300	46.69	-44.64	33.65	-59.56	-13.00	46.56	145	25	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	57.73	-48.22	25.37	-60.38	-13.00	47.38	248	163	Vertical
2	2473.7700	52.15	-47.32	27.69	-62.74	-13.00	49.74	152	0	Vertical
3	3298.3600	49.58	-46.68	29.56	-62.80	-13.00	49.80	165	0	Vertical
4	4122.9500	48.42	-45.91	30.99	-61.77	-13.00	48.77	148	10	Vertical
5	4947.5400	48.24	-45.69	32.73	-59.98	-13.00	46.98	195	5	Vertical
6	5772.1300	46.19	-44.64	33.65	-60.06	-13.00	47.06	172	0	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	68.05	-48.20	25.38	-50.04	-13.00	37.04	222	239	Horizontal
2	2496.2700	50.72	-47.28	27.76	-64.06	-13.00	51.06	142	278	Horizontal
3	3328.3600	50.35	-46.64	29.52	-62.03	-13.00	49.03	135	173	Horizontal
4	4160.4500	48.02	-45.94	31.04	-62.14	-13.00	49.14	126	331	Horizontal
5	4992.5400	48.42	-45.79	32.86	-59.77	-13.00	46.77	192	120	Horizontal
6	5824.6300	47.11	-44.74	33.80	-59.09	-13.00	46.09	180	359	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	66.11	-48.20	25.38	-51.98	-13.00	38.98	184	228	Vertical
2	2496.2700	50.39	-47.28	27.76	-64.39	-13.00	51.39	125	164	Vertical
3	3328.3600	49.87	-46.64	29.52	-62.51	-13.00	49.51	136	348	Vertical
4	4160.4500	49.31	-45.94	31.04	-60.85	-13.00	47.85	256	190	Vertical
5	4992.5400	47.54	-45.79	32.86	-60.65	-13.00	47.65	195	138	Vertical
6	5824.6300	47.81	-44.74	33.80	-58.39	-13.00	45.39	182	176	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	72.44	-48.18	25.38	-45.62	-13.00	32.62	245	213	Horizontal
2	2518.7700	50.32	-47.21	27.83	-64.31	-13.00	51.31	175	356	Horizontal
3	3358.3600	50.37	-46.60	29.48	-62.01	-13.00	49.01	145	3	Horizontal
4	4197.9500	48.36	-45.96	31.10	-61.76	-13.00	48.76	135	38	Horizontal
5	5037.5400	46.62	-45.65	32.90	-61.39	-13.00	48.39	122	3	Horizontal
6	5887.1300	48.48	-44.93	33.92	-57.79	-13.00	44.79	162	200	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	1678.8571	63.65	-48.19	25.38	-54.41	-13.00	41.41	241	254	Vertical
2	2518.7700	53.30	-47.21	27.83	-61.33	-13.00	48.33	156	227	Vertical
3	3358.3600	51.08	-46.60	29.48	-61.30	-13.00	48.30	129	307	Vertical
4	4197.9500	47.40	-45.96	31.10	-62.72	-13.00	49.72	145	17	Vertical
5	5037.5400	47.03	-45.65	32.90	-60.98	-13.00	47.98	185	356	Vertical
6	5887.1300	50.04	-44.93	33.92	-56.23	-13.00	43.23	145	188	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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