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Appendix B.5

LTE Band 12



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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
Band12	1.4MHz	QPSK	23017	1RB#0	23.08	21.33	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.14	21.39	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.04	21.29	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.17	20.42	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.36	21.61	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.18	21.43	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.21	21.46	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.07	20.32	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.54	21.79	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.09	21.34	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.19	21.44	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.15	20.4	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.21	20.46	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.51	20.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.15	20.4	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.15	19.4	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.35	20.6	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.26	20.51	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.45	20.7	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.12	19.37	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.16	20.41	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.27	20.52	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.03	20.28	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.19	19.44	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.21	19.46	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.27	19.52	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.09	19.34	34.77	PASS

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Band12	1.4MHz	64QAM	23017	6RB#0	20.1	18.35	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.26	19.51	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.27	19.52	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.12	19.37	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.1	18.35	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.31	19.56	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.3	19.55	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.13	19.38	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.09	18.34	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	18.33	16.58	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	18.29	16.54	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	18	16.25	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	18.02	16.27	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	18.07	16.32	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	18.22	16.47	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	18.21	16.46	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	18.07	16.32	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	18.26	16.51	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	18.15	16.4	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	18.17	16.42	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	18.2	16.45	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.15	21.4	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.2	21.45	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23	21.25	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.11	20.36	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.24	21.49	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.09	21.34	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.02	21.27	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.15	20.4	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.25	21.5	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.1	21.35	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.99	21.24	34.77	PASS

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Band12	3MHz	QPSK	23165	15RB#0	22.11	20.36	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.2	20.45	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.25	20.5	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.25	20.5	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.11	19.36	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.08	20.33	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.19	20.44	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.22	20.47	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.07	19.32	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.22	20.47	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.18	20.43	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.04	20.29	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.08	19.33	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.13	19.38	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.24	19.49	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.11	19.36	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.16	18.41	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.17	19.42	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.24	19.49	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.23	19.48	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.07	18.32	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.3	19.55	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.47	19.72	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.32	19.57	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.08	18.33	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	18.26	16.51	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	18.21	16.46	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	18.12	16.37	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	18.14	16.39	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	18.15	16.4	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	18.25	16.5	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	18.17	16.42	34.77	PASS

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Band12	3MHz	256QAM	23165	1RB#0	18.14	16.39	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#8	18.24	16.49	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	18.22	16.47	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	18.12	16.37	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.16	21.41	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.13	21.38	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.16	21.41	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.18	20.43	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.22	21.47	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.13	21.38	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.09	21.34	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.09	20.34	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.41	21.66	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.19	21.44	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.06	21.31	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.02	20.27	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.27	20.52	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.09	20.34	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.04	20.29	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.16	19.41	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.24	20.49	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.27	20.52	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.32	20.57	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.02	19.27	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.27	20.52	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.19	20.44	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.16	20.41	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.13	19.38	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.35	19.6	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.26	19.51	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.32	19.57	34.77	PASS

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Band12	5MHz	64QAM	23035	25RB#0	20.13	18.38	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.13	19.38	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.33	19.58	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.42	19.67	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.03	18.28	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.24	19.49	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.32	19.57	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.39	19.64	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.1	18.35	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	18.1	16.35	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	18.28	16.53	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	18.2	16.45	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	18.09	16.34	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	18.11	16.36	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	18.19	16.44	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	18.22	16.47	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	18.15	16.4	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	18.06	16.31	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	18.32	16.57	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	18.3	16.55	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	18.06	16.31	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.14	21.39	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.1	21.35	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.02	21.27	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.24	20.49	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.36	21.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.17	21.42	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.05	21.3	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.17	20.42	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.25	21.5	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.14	21.39	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.13	21.38	34.77	PASS

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Band12	10MHz	QPSK	23130	50RB#0	22.18	20.43	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.29	20.54	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.25	20.5	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.24	20.49	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.19	19.44	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.43	20.68	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.31	20.56	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.25	20.5	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.2	19.45	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.28	20.53	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.26	20.51	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.11	20.36	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.2	19.45	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.32	19.57	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.36	19.61	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.08	19.33	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.23	18.48	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.41	19.66	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.21	19.46	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.21	19.46	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.15	18.4	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.4	19.65	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.39	19.64	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.33	19.58	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.17	18.42	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	18.12	16.37	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	18.19	16.44	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	18.26	16.51	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	18.16	16.41	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	18.21	16.46	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	18.27	16.52	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	18.3	16.55	34.77	PASS

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Band12	10MHz	256QAM	23095	50RB#0	18.07	16.32	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	18.09	16.34	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	18.19	16.44	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	18.3	16.55	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	18.14	16.39	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band12_ 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	1399.1800	55.40	-48.00	25.62	-62.24	-13.00	49.24	245	282	Horizontal	
2	2098.7700	61.42	-47.71	26.99	-54.57	-13.00	41.57	165	162	Horizontal	
3	2798.3600	44.00	-46.92	28.48	-69.70	-13.00	56.70	142	0	Horizontal	
4	3497.9500	44.07	-46.54	29.52	-68.21	-13.00	55.21	133	9	Horizontal	
5	4197.5400	41.76	-45.96	31.10	-68.36	-13.00	55.36	291	242	Horizontal	
6	4904	51.22	-45.59	32.61	-57.02	-13.00	44.02	178	242	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	1399.1800	54.09	-48.00	25.62	-63.55	-13.00	50.55	254	353	Vertical	
2	2098.7700	63.38	-47.71	26.99	-52.61	-13.00	39.61	155	306	Vertical	
3	2798.3600	43.89	-46.92	28.48	-69.81	-13.00	56.81	165	68	Vertical	
4	3497.9500	42.89	-46.54	29.52	-69.39	-13.00	56.39	184	360	Vertical	
5	4197.5400	41.56	-45.96	31.10	-68.56	-13.00	55.56	199	360	Vertical	
6	4904	46.25	-45.59	32.61	-61.99	-13.00	48.99	173	280	Vertical	

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Test Band = LTE Band12_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	1406.1800	56.04	-48.02	25.61	-61.63	-13.00	48.63	222	164	Horizontal	
2	2109.1429	61.70	-47.71	27.02	-54.25	-13.00	41.25	152	230	Horizontal	
3	2812.3600	44.06	-46.88	28.53	-69.54	-13.00	56.54	145	202	Horizontal	
4	3515.4500	42.60	-46.51	29.53	-69.63	-13.00	56.63	135	176	Horizontal	
5	4218.5400	42.61	-45.93	31.14	-67.44	-13.00	54.44	162	138	Horizontal	
6	4904	51.54	-45.59	32.61	-56.70	-13.00	43.70	109	243	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	1406.1800	54.15	-48.02	25.61	-63.52	-13.00	50.52	254	359	Vertical	
2	2109.1429	65.21	-47.71	27.02	-50.74	-13.00	37.74	156	318	Vertical	
3	2812.3600	43.41	-46.88	28.53	-70.19	-13.00	57.19	195	304	Vertical	
4	3515.4500	42.88	-46.51	29.53	-69.35	-13.00	56.35	188	359	Vertical	
5	4218.5400	42.12	-45.93	31.14	-67.93	-13.00	54.93	142	224	Vertical	
6	4904	45.85	-45.59	32.61	-62.39	-13.00	49.39	138	66	Vertical	



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Test Band = LTE Band12_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	1413.1429	59.85	-48.04	25.60	-57.85	-13.00	44.85	245	176	Horizontal	
2	2119.7700	61.53	-47.70	27.06	-54.37	-13.00	41.37	195	176	Horizontal	
3	2826.3600	43.23	-46.83	28.60	-70.26	-13.00	57.26	142	9	Horizontal	
4	3532.9500	42.74	-46.47	29.55	-69.44	-13.00	56.44	163	150	Horizontal	
5	4239.5400	42.08	-45.89	31.18	-67.89	-13.00	54.89	256	202	Horizontal	
6	4992	53.11	-45.79	32.86	-55.08	-13.00	42.08	191	255	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	1413.1429	57.20	-48.04	25.60	-60.50	-13.00	47.50	248	350	Vertical	
2	2119.7700	62.64	-47.70	27.06	-53.26	-13.00	40.26	159	290	Vertical	
3	2826.3600	43.22	-46.83	28.60	-70.27	-13.00	57.27	175	224	Vertical	
4	3532.9500	42.57	-46.47	29.55	-69.61	-13.00	56.61	142	290	Vertical	
5	4239.5400	42.41	-45.89	31.18	-67.56	-13.00	54.56	163	53	Vertical	
6	4992	50.68	-45.79	32.86	-57.51	-13.00	44.51	261	276	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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