

Report No.: SEWM2303000098RG01

Rev.: 01

Page: 1 of 8

# 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	23.75	20.17	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.81	20.23	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.73	20.15	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.78	19.2	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.84	20.26	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.92	20.34	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.76	20.18	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.81	19.23	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.63	20.05	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.69	20.11	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.65	20.07	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.68	19.1	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.23	18.65	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.75	19.17	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.52	18.94	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.69	18.11	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.65	19.07	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.76	19.18	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.61	19.03	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.37	17.79	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.39	18.81	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.65	19.07	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.58	19	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.21	17.63	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.83	20.25	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.72	20.14	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.01	20.43	34.77	PASS



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Report No.: SEWM2303000098RG01

Rev.: 01

Page: 3 of 8

Band12	3MHz	QPSK	23025	15RB#0	22.95	19.37	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.94	20.36	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.88	20.3	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.73	20.15	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.98	19.4	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.69	20.11	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.72	20.14	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.79	20.21	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.72	19.14	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.62	19.04	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.6	19.02	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.51	18.93	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.68	18.1	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.64	19.06	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.57	18.99	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.36	18.78	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.64	18.06	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.51	18.93	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.53	18.95	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.42	18.84	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.58	18	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.9	20.32	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.88	20.3	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.81	20.23	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.68	19.1	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.74	20.16	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.87	20.29	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.6	20.02	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.85	19.27	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.68	20.1	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.76	20.18	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.64	20.06	34.77	PASS



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Report No.: SEWM2303000098RG01

Rev.: 01

Page: 4 of 8

Band12	5MHz	QPSK	23155	25RB#0	22.74	19.16	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.71	19.13	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.54	18.96	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.34	18.76	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.67	18.09	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.48	18.9	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.47	18.89	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.07	18.49	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.75	18.17	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.4	18.82	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.05	18.47	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.29	18.71	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.63	18.05	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.81	20.23	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24	20.42	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.64	20.06	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.96	19.38	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.65	20.07	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.14	20.56	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.69	20.11	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.77	19.19	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.94	20.36	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.83	20.25	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.69	20.11	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.82	19.24	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.69	19.11	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.54	18.96	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.39	18.81	34.77	PASS
Band12	10MHz	16QAM	23060	27RB#0	21.66	18.08	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.53	18.95	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.66	19.08	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.36	18.78	34.77	PASS



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Report No.: SEWM2303000098RG01

Rev.: 01

Page: 5 of 8

Band12	10MHz	16QAM	23095	27RB#0	21.77	18.19	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.61	19.03	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.45	18.87	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.51	18.93	34.77	PASS
Band12	10MHz	16QAM	23130	27RB#0	21.75	18.17	34.77	PASS



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### Field Strength of Spurious Radiation

Test Band = LTE Band 12\_10MHz \_ 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	1399.1111	56.28	-48.73	25.40	-62.31	-13.00	49.31	239	174	Horizontal
2	2098.6667	56.84	-47.88	27.10	-59.21	-13.00	46.21	162	157	Horizontal
3	2798.2222	58.10	-46.69	28.91	-54.93	-13.00	41.93	249	174	Horizontal
4	3497.95	42.50	-46.05	29.40	-69.41	-13.00	56.41	148	94	Horizontal
5	4197.54	40.94	-45.12	30.92	-68.52	-13.00	55.52	211	63	Horizontal
6	4897.13	41.07	-45.14	32.35	-66.97	-13.00	53.97	132	316	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	1399.1111	64.53	-48.73	25.40	-54.06	-13.00	41.06	164	143	Vertical
2	2098.77	54.99	-47.88	27.10	-61.05	-13.00	48.05	287	95	Vertical
3	2798.36	47.03	-46.69	28.92	-66.00	-13.00	53.00	179	0	Vertical
4	3497.95	43.97	-46.05	29.40	-67.94	-13.00	54.94	216	236	Vertical
5	4197.54	40.22	-45.12	30.92	-69.24	-13.00	56.24	293	347	Vertical
6	4897.13	40.80	-45.14	32.35	-67.24	-13.00	54.24	241	33	Vertical



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**Test Band = LTE Band 12\_10MHz \_ 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	1406.18	53.35	-48.72	25.41	-65.22	-13.00	52.22	214	49	Horizontal
2	2109.27	56.90	-47.87	27.12	-59.11	-13.00	46.11	186	174	Horizontal
3	2812.36	56.71	-46.69	28.96	-56.28	-13.00	43.28	235	174	Horizontal
4	3515.45	44.03	-46.03	29.44	-67.83	-13.00	54.83	298	112	Horizontal
5	4218.54	39.86	-45.11	30.95	-69.56	-13.00	56.56	172	81	Horizontal
6	4921.63	41.09	-45.12	32.41	-66.88	-13.00	53.88	224	316	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	1406.18	64.52	-48.72	25.41	-54.05	-13.00	41.05	211	126	Vertical
2	2109.27	55.86	-47.87	27.12	-60.15	-13.00	47.15	146	17	Vertical
3	2812.36	47.89	-46.69	28.96	-65.10	-13.00	52.10	237	297	Vertical
4	3515.45	41.96	-46.03	29.44	-69.90	-13.00	56.90	179	219	Vertical
5	4218.54	40.60	-45.11	30.95	-68.82	-13.00	55.82	251	7	Vertical
6	4921.63	41.21	-45.12	32.41	-66.76	-13.00	53.76	124	0	Vertical



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**Test Band = LTE Band 12\_10MHz \_ 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	1413.18	56.68	-48.70	25.41	-61.86	-13.00	48.86	198	273	Horizontal
2	2119.77	55.32	-47.85	27.14	-60.65	-13.00	47.65	261	161	Horizontal
3	2826.36	54.41	-46.71	29.01	-58.55	-13.00	45.55	285	193	Horizontal
4	3532.95	42.54	-46.01	29.48	-69.25	-13.00	56.25	163	81	Horizontal
5	4239.54	40.39	-45.11	30.98	-69.00	-13.00	56.00	203	96	Horizontal
6	4946.13	39.96	-45.09	32.47	-67.91	-13.00	54.91	302	321	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	1413.18	64.51	-48.70	25.41	-54.03	-13.00	41.03	249	157	Vertical
2	2119.77	54.74	-47.85	27.14	-61.23	-13.00	48.23	186	17	Vertical
3	2826.36	45.58	-46.71	29.01	-67.38	-13.00	54.38	239	357	Vertical
4	3532.95	42.29	-46.01	29.48	-69.50	-13.00	56.50	254	314	Vertical
5	4239.54	40.26	-45.11	30.98	-69.13	-13.00	56.13	142	297	Vertical
6	4946.13	41.07	-45.09	32.47	-66.80	-13.00	53.80	209	297	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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