

Report No.: SEWM2308000332RG01

Rev.: 01

Page: 1 of 7

Appendix B.6

LTE Band 13



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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
Band13	5MHz	QPSK	23205	1RB#0	22.24	21.94	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.56	22.26	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.5	22.2	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.81	21.51	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.83	22.53	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.82	22.52	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.62	22.32	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.74	21.44	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.94	22.64	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.82	22.52	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.08	22.78	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.97	21.67	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.63	21.33	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.9	21.6	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.77	21.47	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.97	20.67	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.07	21.77	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.93	21.63	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.96	21.66	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.82	20.52	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.31	22.01	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.14	21.84	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.24	21.94	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.92	20.62	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.74	22.44	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.86	22.56	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.84	22.54	34.77	PASS



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Report No.: SEWM2308000332RG01

Rev.: 01

Page: 3 of 7

Band13	10MHz	QPSK	23230	50RB#0	21.88	21.58	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.13	21.83	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.99	21.69	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.24	21.94	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.92	20.62	34.77	PASS



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Report No.: SEWM2308000332RG01

Rev.: 01

Page: 4 of 7

Field Strength of Spurious Radiation

Test Band = LTE Band 13_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	1555.18	67.93	-48.51	25.56	-50.28	-13.00	37.28	158	348	Horizontal
2	2332.77	60.10	-47.62	27.57	-55.21	-13.00	42.21	263	265	Horizontal
3	3110.36	45.65	-46.51	29.56	-66.57	-13.00	53.57	227	295	Horizontal
4	3887.95	40.49	-45.54	30.33	-69.98	-13.00	56.98	195	13	Horizontal
5	4665.54	42.04	-44.58	31.80	-66.00	-13.00	53.00	174	205	Horizontal
6	5443.13	40.79	-43.83	32.60	-65.70	-13.00	52.70	215	175	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	1555	66.64	-48.51	25.56	-51.57	-13.00	38.57	255	331	Vertical
2	2332.77	60.93	-47.62	27.57	-54.38	-13.00	41.38	174	107	Vertical
3	3110.36	47.51	-46.51	29.56	-64.71	-13.00	51.71	196	219	Vertical
4	3887.95	40.66	-45.54	30.33	-69.81	-13.00	56.81	228	241	Vertical
5	4665.54	41.24	-44.58	31.80	-66.80	-13.00	53.80	213	64	Vertical
6	5443.13	41.17	-43.83	32.60	-65.32	-13.00	52.32	156	16	Vertical



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Report No.: SEWM2308000332RG01

Rev.: 01

Page: 5 of 7

Test Band = LTE Band 13_5MHz_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	1554.5	70.78	-48.51	25.55	-47.43	-13.00	34.43	215	350	Horizontal
2	2332	61.85	-47.62	27.56	-53.46	-13.00	40.46	190	252	Horizontal
3	3109.36	45.52	-46.51	29.56	-66.70	-13.00	53.70	247	119	Horizontal
4	3886.7	40.72	-45.54	30.33	-69.75	-13.00	56.75	185	252	Horizontal
5	4664.04	41.32	-44.58	31.79	-66.72	-13.00	53.72	211	339	Horizontal
6	5441.38	41.95	-43.83	32.60	-64.54	-13.00	51.54	174	282	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	1554.5	64.58	-48.51	25.55	-53.63	-13.00	40.63	244	20	Vertical
2	2332	60.92	-47.62	27.56	-54.39	-13.00	41.39	166	169	Vertical
3	3109.36	48.42	-46.51	29.56	-63.80	-13.00	50.80	148	229	Vertical
4	3886.7	40.88	-45.54	30.33	-69.59	-13.00	56.59	185	215	Vertical
5	4664.04	41.29	-44.58	31.79	-66.75	-13.00	53.75	216	346	Vertical
6	5441.38	41.32	-43.83	32.60	-65.17	-13.00	52.17	332	37	Vertical



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Report No.: SEWM2308000332RG01

Rev.: 01

Page: 6 of 7

Test Band = LTE Band 13_5MHz_ 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	1559.5	70.03	-48.51	25.56	-48.18	-40.00	8.18	287	357	Horizontal
2	2339.5	59.67	-47.61	27.58	-55.63	-13.00	42.63	336	264	Horizontal
3	3119.36	46.28	-46.49	29.55	-65.92	-13.00	52.92	175	13	Horizontal
4	3899.2	40.63	-45.53	30.36	-69.80	-13.00	56.80	247	160	Horizontal
5	4679.04	42.16	-44.57	31.83	-65.84	-13.00	52.84	296	331	Horizontal
6	5458.88	41.55	-43.82	32.60	-64.93	-13.00	51.93	186	117	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	1559.5	67.84	-48.51	25.56	-50.37	-40.00	10.37	256	185	Vertical
2	2339.5	59.12	-47.61	27.58	-56.18	-13.00	43.18	233	119	Vertical
3	3119.36	47.10	-46.49	29.55	-65.10	-13.00	52.10	152	179	Vertical
4	3899.2	41.00	-45.53	30.36	-69.43	-13.00	56.43	174	179	Vertical
5	4679.04	41.89	-44.57	31.83	-66.11	-13.00	53.11	138	236	Vertical
6	5458.88	41.20	-43.82	32.60	-65.28	-13.00	52.28	247	119	Vertical



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Rev.: 01

Page: 7 of 7

Test Band = LTE Band 13_5MHz_ 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	1564.5	70.27	-48.51	25.56	-47.93	-40.00	7.93	185	342	Horizontal
2	2347	60.45	-47.61	27.59	-54.83	-13.00	41.83	147	102	Horizontal
3	3129.36	46.54	-46.46	29.55	-65.63	-13.00	52.63	269	3	Horizontal
4	3911.7	41.27	-45.53	30.39	-69.13	-13.00	56.13	281	0	Horizontal
5	4694.04	41.69	-44.55	31.87	-66.26	-13.00	53.26	169	355	Horizontal
6	5476.38	41.61	-43.80	32.60	-64.85	-13.00	51.85	235	43	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	1564.5	68.38	-48.51	25.56	-49.82	-40.00	9.82	266	131	Vertical
2	2347	60.36	-47.61	27.59	-54.92	-13.00	41.92	293	105	Vertical
3	3129.36	49.55	-46.46	29.55	-62.62	-13.00	49.62	174	170	Vertical
4	3911.7	40.97	-45.53	30.39	-69.43	-13.00	56.43	185	278	Vertical
5	4694.04	42.14	-44.55	31.87	-65.81	-13.00	52.81	166	347	Vertical
6	5476.38	41.50	-43.80	32.60	-64.96	-13.00	51.96	288	360	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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