

Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0050	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

1. Normal Voltage =12.0 V. ; Battery End Point (BEP) =10.8 V. ; Maximum Voltage =13.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	23.51	0.2244	23.63	0.2307
Middle		3	1	24.52	0.2831	24.25	0.2661
Highest		3	1	27.14	0.5176	24.36	0.2729
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	14	23.39	0.2183	23.59	0.2286
Middle		1	14	24.63	0.2904	24.21	0.2636
Highest		1	14	27.40	0.5495	24.37	0.2735
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.28	0.2679	24.08	0.2559
Middle		1	0	24.58	0.2871	24.80	0.3020
Highest		1	0	26.72	0.4699	24.95	0.3126
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	24.17	0.2612	24.53	0.2838
Middle		1	49	24.48	0.2805	25.22	0.3327
Highest		1	49	25.41	0.3475	25.78	0.3784
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 15MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.31	0.2698	24.73	0.2972
Middle		1	0	24.81	0.3027	25.33	0.3412
Highest		1	0	25.34	0.3420	26.24	0.4207
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.63	0.2904	24.73	0.2972
Middle		1	0	24.99	0.3155	25.03	0.3184
Highest		1	0	25.60	0.3631	25.54	0.3581
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	25.91	0.3899	25.40	0.3467
Middle		3	1	26.46	0.4426	26.04	0.4018
Highest		3	1	26.18	0.4150	25.91	0.3899
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	25.81	0.3811	25.43	0.3491
Middle		1	0	26.48	0.4446	26.10	0.4074
Highest		1	0	26.28	0.4246	25.90	0.3890
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	25.91	0.3899	25.59	0.3622
Middle		1	24	26.46	0.4426	26.17	0.4140
Highest		1	24	26.26	0.4227	25.92	0.3908
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	25.83	0.3828	23.52	0.2249
Middle		1	0	25.91	0.3899	23.58	0.2280
Highest		1	0	25.80	0.3802	23.29	0.2133
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 15MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.16	0.4130	25.87	0.3864
Middle		1	0	26.61	0.4581	26.30	0.4266
Highest		1	0	26.55	0.4519	26.21	0.4178
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	25.92	0.3908	25.90	0.3890
Middle		1	0	26.16	0.4130	26.16	0.4130
Highest		1	0	26.11	0.4083	25.96	0.3945
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	21.82	0.1521	22.23	0.1671
Middle		3	1	22.63	0.1832	21.87	0.1538
Highest		3	1	23.58	0.2280	21.99	0.1581
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	21.80	0.1514	22.17	0.1648
Middle		1	0	22.53	0.1791	21.88	0.1542
Highest		1	0	23.46	0.2218	22.03	0.1596
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	21.77	0.1503	22.21	0.1663
Middle		1	0	22.57	0.1807	21.93	0.1560
Highest		1	0	23.44	0.2208	22.02	0.1592
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	21.84	0.1528	22.29	0.1694
Middle		1	0	22.41	0.1742	22.19	0.1656
Highest		1	0	23.11	0.2046	22.28	0.1690
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	26.30	0.4266	26.89	0.4887
Middle		1	24	26.10	0.4074	25.94	0.3926
Highest		1	24	25.85	0.3846	24.87	0.3069
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.49	0.4457	27.50	0.5623
Middle		1	0	26.24	0.4207	26.54	0.4508
Highest		1	0	25.27	0.3365	25.37	0.3443
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.24	0.4207	27.30	0.5370
Middle		1	0	26.10	0.4074	26.54	0.4508
Highest		1	0	25.43	0.3491	25.48	0.3532
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	27.16	0.5200	27.19	0.5236
Middle		1	0	26.96	0.4966	26.51	0.4477
Highest		1	0	26.45	0.4416	25.59	0.3622
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	21.91	0.1552	19.25	0.0841
Middle		3	1	22.35	0.1718	19.71	0.0935
Highest		3	1	22.20	0.1660	20.12	0.1028
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	21.91	0.1552	19.31	0.0853
Middle		1	0	22.38	0.1730	19.74	0.0942
Highest		1	0	22.41	0.1742	20.22	0.1052
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.01	0.1589	19.41	0.0873
Middle		1	0	22.47	0.1766	19.75	0.0944
Highest		1	0	22.53	0.1791	20.17	0.1040
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.17	0.1648	19.68	0.0929
Middle		1	0	22.48	0.1770	19.89	0.0975
Highest		1	0	22.54	0.1795	20.03	0.1007
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	21.21	0.1321	20.63	0.1156
Middle		1	12	20.89	0.1227	20.22	0.1052
Highest		1	12	20.77	0.1194	20.03	0.1007
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	21.10	0.1288	20.62	0.1153
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 66 / 1.4MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	23.77	0.2382	26.21	0.4178
Middle		3	1	25.68	0.3698	26.66	0.4634
Highest		3	1	25.12	0.3251	25.27	0.3365
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 3MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	23.78	0.2388	26.19	0.4159
Middle		1	8	25.69	0.3707	26.56	0.4529
Highest		1	8	25.15	0.3273	25.26	0.3357
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 5MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.89	0.2449	26.26	0.4227
Middle		1	0	25.68	0.3698	26.60	0.4571
Highest		1	0	25.29	0.3381	25.15	0.3273
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 10MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.00	0.2512	26.37	0.4335
Middle		1	0	25.70	0.3715	26.65	0.4624
Highest		1	0	25.30	0.3388	25.65	0.3673
Limit	EIRP < 1W			Result		PASS	



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LTE Band 66 / 15MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.10	0.2570	26.52	0.4487
Middle		1	0	25.64	0.3664	26.71	0.4688
Highest		1	0	25.27	0.3365	25.79	0.3793
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 20MHz (Average)							
Channel	Mode	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	25.41	0.3475	26.54	0.4508
Middle		1	0	25.56	0.3597	26.60	0.4571
Highest		1	0	25.35	0.3428	25.77	0.3776
Limit	EIRP < 1W			Result		PASS	

**Radiated Spurious Emission****LTE Band 2**

LTE Band 2 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3720	-55.95	-13	-42.95	-76.9	-67.16	1.42	12.63	H
	5580	-52.07	-13	-39.07	-77.41	-63.63	1.74	13.30	H
	7440	-51.85	-13	-38.85	-79.05	-61.09	1.96	11.20	H
									H
									H
									H
									H
	3720	-50.03	-13	-37.03	-70.98	-61.24	1.42	12.63	V
	5580	-50.56	-13	-37.56	-75.88	-62.12	1.74	13.30	V
	7440	-51.49	-13	-38.49	-78.91	-60.73	1.96	11.20	V
									V
									V
									V
									V



Middle	3768	-53.05	-13	-40.05	-73.96	-64.28	1.43	12.66	H
	5652	-51.47	-13	-38.47	-77.01	-63.04	1.73	13.30	H
	7536	-51.03	-13	-38.03	-78.35	-60.14	2.00	11.11	H
									H
									H
									H
									H
	3768	-48.19	-13	-35.19	-69.13	-59.42	1.43	12.66	V
	5652	-48.43	-13	-35.43	-73.95	-60.00	1.73	13.30	V
	7536	-48.34	-13	-35.34	-75.91	-57.45	2.00	11.11	V
									V
									V
									V
									V
Highest	3816	-55.71	-13	-42.71	-76.56	-65.89	2.03	12.21	H
	5730	-50.42	-13	-37.42	-76.13	-60.84	2.10	12.52	H
	7638	-49.78	-13	-36.78	-77.37	-58.16	2.11	10.50	H
									H
									H
									H
									H
	3816	-47.37	-13	-34.37	-68.29	-57.55	2.03	12.21	V
	5730	-46.84	-13	-33.84	-72.54	-57.26	2.10	12.52	V
	7638	-46.08	-13	-33.08	-73.91	-54.46	2.11	10.50	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 4**

LTE Band 4 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-57.15	-13	-44.15	-77.55	-68.11	1.35	12.31	H
	5136	-54.09	-13	-41.09	-77.9	-65.24	1.65	12.79	H
	6840	-53.48	-13	-40.48	-79.97	-63.86	1.74	12.12	H
									H
									H
									H
									H
	3420	-52.38	-13	-39.38	-72.8	-63.34	1.35	12.31	V
	5136	-49.94	-13	-36.94	-73.64	-61.09	1.65	12.79	V
	6840	-53.18	-13	-40.18	-79.94	-63.56	1.74	12.12	V
									V
									V
									V
									V
Middle	3450	-56.81	-13	-43.81	-77.36	-67.84	1.35	12.38	H
	5172	-53.54	-13	-40.54	-77.54	-64.73	1.65	12.84	H
	6890	-53.45	-13	-40.45	-80.31	-63.77	1.74	12.05	H
									H
									H
									H
									H
	3450	-52.14	-13	-39.14	-72.65	-63.17	1.35	12.38	V
	5172	-49.24	-13	-36.24	-73.61	-60.43	1.65	12.84	V
	6890	-53.09	-13	-40.09	-79.93	-63.41	1.74	12.05	V
									V
									V
									V
									V



Highest	3474	-56.49	-13	-43.49	-77.07	-67.57	1.36	12.44	H
	5208	-54.21	-13	-41.21	-78.37	-65.44	1.66	12.89	H
	6940	-53.43	-13	-40.43	-80.23	-63.69	1.73	11.98	H
									H
									H
									H
									H
	3474	-54.14	-13	-41.14	-72.64	-65.22	1.36	12.44	V
	5208	-50.85	-13	-37.85	-74.95	-62.08	1.66	12.89	V
	6940	-53.17	-13	-40.17	-79.96	-63.43	1.73	11.98	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 5**

LTE Band 5 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-57.90	-13	-44.90	-70.23	-63.49	0.92	8.66	H
	2472	-54.64	-13	-41.64	-72.17	-62.01	1.14	10.66	H
	3296	-57.88	-13	-44.88	-77.48	-66.42	1.32	12.01	H
									H
									H
									H
									H
	1648	-60.12	-13	-47.12	-72.92	-65.71	0.92	8.66	V
	2475	-52.50	-13	-39.50	-70.47	-59.87	1.14	10.67	V
	3296	-57.90	-13	-44.90	-77.83	-66.44	1.32	12.01	V
									V
									V
									V
									V
Middle	1672	-61.43	-13	-48.43	-74.05	-67.11	0.93	8.75	H
	2504	-41.25	-13	-28.25	-58.84	-48.65	1.15	10.70	H
	3336	-58.53	-13	-45.53	-78.31	-67.16	1.33	12.11	H
									H
									H
									H
									H
	1672	-62.06	-13	-49.06	-75.14	-67.74	0.93	8.75	V
	2504	-52.60	-13	-39.60	-70.64	-60.00	1.15	10.70	V
	3336	-58.37	-13	-45.37	-78.4	-67.00	1.33	12.11	V
									V
									V
									V
									V



Highest	1688	-60.96	-13	-47.96	-73.58	-66.69	0.93	8.81	H
	2536	-49.17	-13	-36.17	-66.79	-56.60	1.16	10.74	H
	3376	-58.26	-13	-45.26	-78.3	-66.97	1.34	12.20	H
									H
									H
									H
									H
	1688	-61.00	-13	-48.00	-74.08	-66.73	0.93	8.81	V
	2536	-49.03	-13	-36.03	-67.14	-56.46	1.16	10.74	V
	3376	-58.13	-13	-45.13	-78.3	-66.84	1.34	12.20	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 7**

LTE Band 7 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	5004	-55.54	-25	-30.54	-79.3	-66.53	1.61	12.61	H
	7500	-50.98	-25	-25.98	-77.67	-60.09	1.99	11.10	H
	10000	-47.78	-25	-22.78	-79.05	-56.68	2.40	11.30	H
									H
									H
									H
									H
	5004	-52.35	-25	-27.35	-76.5	-63.34	1.61	12.61	V
	7500	-47.14	-25	-22.14	-74.45	-56.25	1.99	11.10	V
	10000	-46.07	-25	-21.07	-77.35	-54.97	2.40	11.30	V
									V
									V
									V
									V
Middle	5064	-55.69	-25	-30.69	-79.5	-66.75	1.63	12.69	H
	7590	-51.54	-25	-26.54	-78.66	-60.66	2.00	11.12	H
	10120	-47.42	-25	-22.42	-78.94	-56.23	2.40	11.20	H
									H
									H
									H
									H
	5064	-53.31	-25	-28.31	-76.71	-64.37	1.63	12.69	V
	7590	-47.62	-25	-22.62	-75.11	-56.74	2.00	11.12	V
	10120	-45.51	-25	-20.51	-77.09	-54.32	2.40	11.20	V
									V
									V
									V
									V



Highest	5124	-55.12	-25	-30.12	-79.16	-66.25	1.64	12.77	H
	7680	-50.74	-25	-25.74	-78.11	-59.86	2.02	11.14	H
	10240	-46.43	-25	-21.43	-78.35	-55.14	2.40	11.11	H
									H
									H
									H
									H
	5124	-52.46	-25	-27.46	-76.55	-63.59	1.64	12.77	V
	7680	-48.51	-25	-23.51	-76.03	-57.63	2.02	11.14	V
	10240	-47.45	-25	-22.45	-79.01	-56.16	2.40	11.11	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 12**

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-61.92	-13	-48.92	-72.53	-66.57	0.84	7.64	H
	2096	-52.08	-13	-39.08	-67.82	-59.00	1.06	10.13	H
	2800	-59.90	-13	-46.90	-77.80	-67.59	1.22	11.06	H
									H
									H
									H
									H
	1400	-63.15	-13	-50.15	-74.23	-67.80	0.84	7.64	V
	2096	-57.16	-13	-44.16	-73.23	-64.08	1.06	10.13	V
	2800	-58.61	-13	-45.61	-77.29	-66.30	1.22	11.06	V
									V
									V
									V
									V
Middle	1408	-63.18	-13	-50.18	-73.79	-67.86	0.85	7.68	H
	2112	-57.61	-13	-44.61	-73.42	-64.55	1.06	10.16	H
	2808	-59.57	-13	-46.57	-77.47	-67.27	1.22	11.07	H
									H
									H
									H
									H
	1408	-63.64	-13	-50.64	-74.72	-68.32	0.85	7.68	V
	2112	-45.39	-13	-32.39	-61.54	-52.33	1.06	10.16	V
	2808	-58.63	-13	-45.63	-77.31	-66.33	1.22	11.07	V
									V
									V
									V
									V



Highest	1416	-61.08	-13	-48.08	-71.68	-65.80	0.85	7.71	H
	2120	-57.53	-13	-44.53	-73.42	-64.48	1.07	10.17	H
	2824	-59.03	-13	-46.03	-76.95	-66.74	1.23	11.09	H
									H
									H
									H
									H
	1416	-61.88	-13	-48.88	-72.95	-66.60	0.85	7.71	V
	2120	-51.82	-13	-38.82	-68.06	-58.77	1.07	10.17	V
	2824	-58.71	-13	-45.71	-77.43	-66.42	1.23	11.09	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 13**

LTE Band 13 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1560	-52.84	-42.15	-10.69	-64.20	-58.13	0.89	8.33	H
	2336	-42.87	-13	-29.87	-59.52	-50.08	1.11	10.47	H
	3896	-50.76	-13	-37.76	-70.98	-59.88	1.46	12.74	H
									H
									H
									H
									H
	1560	-58.98	-42.15	-16.83	-70.89	-64.27	0.89	8.33	V
	2328	-48.84	-13	-35.84	-65.91	-56.04	1.11	10.46	V
	3896	-55.92	-13	-42.92	-77.25	-65.04	1.46	12.74	V
									V
									V
									V
									V
Middle	1560	-59.48	-42.15	-17.33	-70.83	-64.77	0.89	8.33	H
	2352	-44.86	-13	-31.86	-61.61	-52.09	1.12	10.49	H
	3912	-51.81	-13	-38.81	-72.00	-60.94	1.47	12.75	H
									H
									H
									H
									H
	1560	-60.44	-42.15	-18.29	-72.28	-65.73	0.89	8.33	V
	2352	-47.26	-13	-34.26	-64.42	-54.49	1.12	10.49	V
	3912	-55.48	-13	-42.48	-75.75	-64.61	1.47	12.75	V
									V
									V
									V
									V



Highest	1568	-55.71	-42.15	-13.56	-67.03	-61.03	0.89	8.36	H
	2350	-43.36	-13	-30.36	-60.01	-50.58	1.12	10.49	H
	3920	-56.24	-13	-43.24	-76.35	-65.37	1.47	12.75	H
									H
									H
									H
									H
	1568	-56.31	-42.15	-14.16	-68.14	-61.63	0.89	8.36	V
	2350	-41.94	-13	-28.94	-58.99	-49.16	1.12	10.49	V
	3920	-56.28	-13	-43.28	-76.59	-65.41	1.47	12.75	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1560	-60.94	-42.15	-18.79	-72.55	-66.23	0.89	8.33	H
	2336	-50.13	-13	-37.13	-67.04	-57.34	1.11	10.47	H
	3128	-59.08	-13	-46.08	-77.83	-67.24	1.29	11.61	H
									H
									H
									H
									H
	1560	-59.19	-42.15	-17.04	-71.3	-64.48	0.89	8.33	V
	2344	-43.82	-13	-30.82	-61.14	-51.04	1.12	10.48	V
	3128	-58.23	-13	-45.23	-77.7	-66.39	1.29	11.61	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 66**

LTE Band 66 / 15MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-57.32	-13	-44.32	-77.8	-68.28	1.35	12.31	H
	5130	-54.43	-13	-41.43	-78.4	-65.57	1.64	12.78	H
	6840	-51.86	-13	-38.86	-78.44	-62.24	1.74	12.12	H
									H
									H
									H
									H
	3420	-54.46	-13	-41.46	-74.97	-65.42	1.35	12.31	V
	5130	-51.84	-13	-38.84	-75.64	-62.98	1.64	12.78	V
	6840	-51.83	-13	-38.83	-78.34	-62.21	1.74	12.12	V
									V
									V
									V
									V
Middle	3480	-57.44	-13	-44.44	-78.24	-68.54	1.36	12.45	H
	5214	-53.96	-13	-40.96	-78.19	-65.19	1.67	12.90	H
	6953	-52.13	-13	-39.13	-78.81	-62.37	1.73	11.97	H
									H
									H
									H
									H
	3480	-54.92	-13	-41.92	-75.64	-66.02	1.36	12.45	V
	5214	-52.89	-13	-39.89	-77	-64.12	1.67	12.90	V
	6953	-52.14	-13	-39.14	-78.86	-62.38	1.73	11.97	V
									V
									V
									V
									V



Highest	3534	-56.48	-13	-43.48	-77.36	-67.63	1.37	12.52	H
	5298	-53.26	-13	-40.26	-77.66	-64.59	1.69	13.02	H
	7063	-50.68	-13	-37.68	-77.4	-60.73	1.75	11.80	H
									H
									H
									H
									H
	3534	-54.97	-13	-41.97	-75.71	-66.12	1.37	12.52	V
	5298	-52.08	-13	-39.08	-76.42	-63.41	1.69	13.02	V
	7063	-50.98	-13	-37.98	-77.76	-61.03	1.75	11.80	V
									V
									V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.