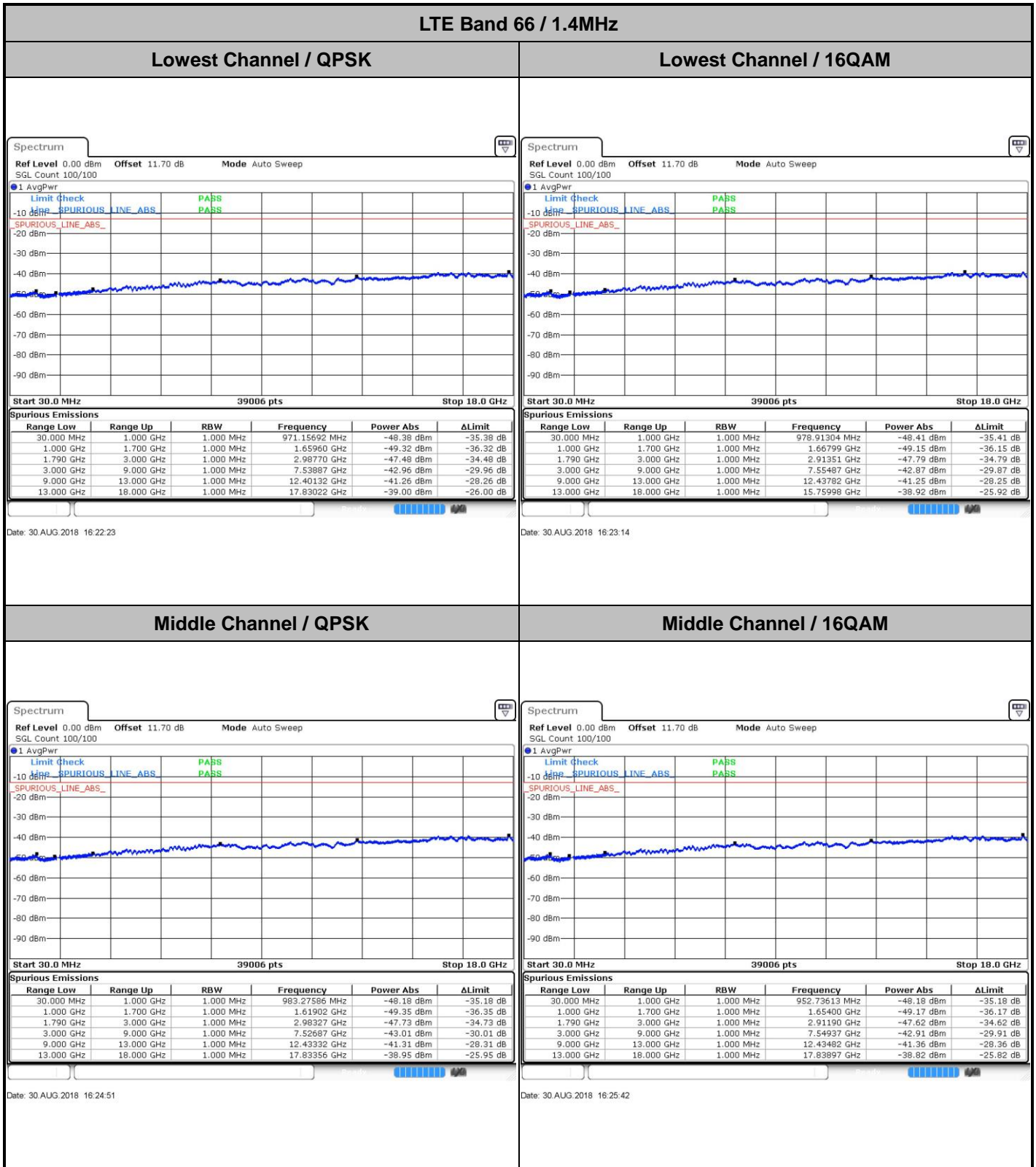




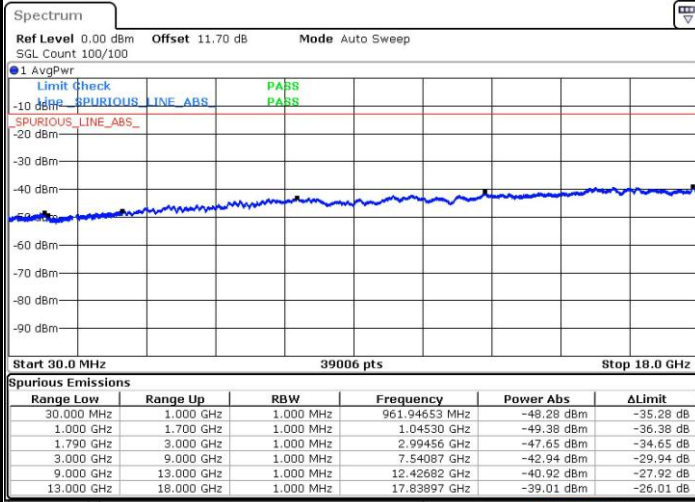
# Conducted Spurious Emission





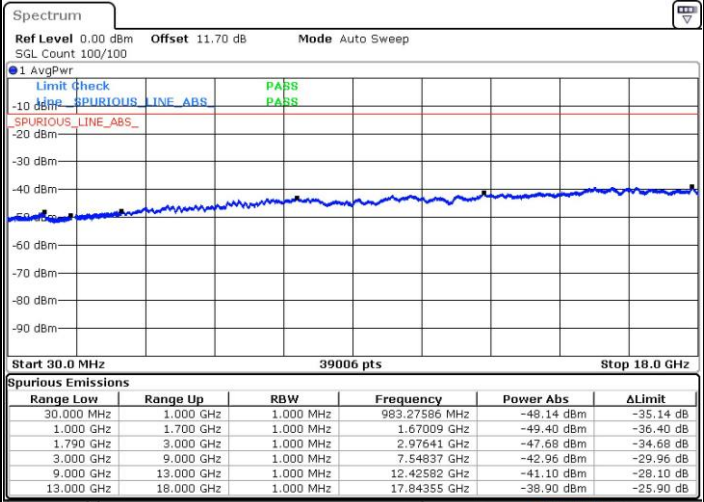
LTE Band 66 / 1.4MHz

Highest Channel / QPSK



Date: 30 AUG 2018 16:31:59

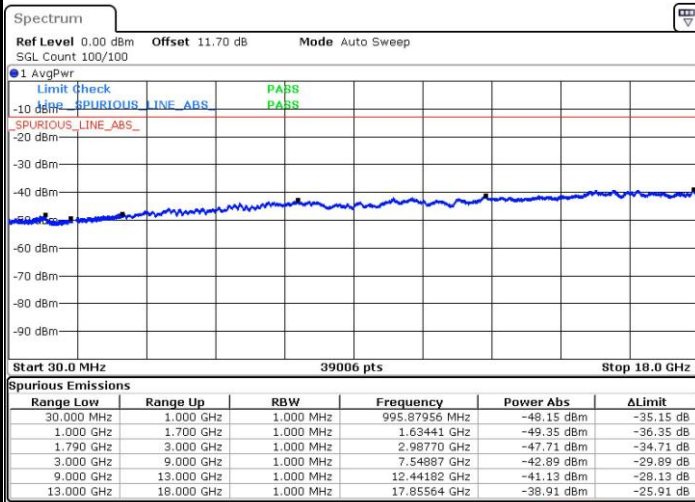
Highest Channel / 16QAM



Date: 30 AUG 2018 16:32:51

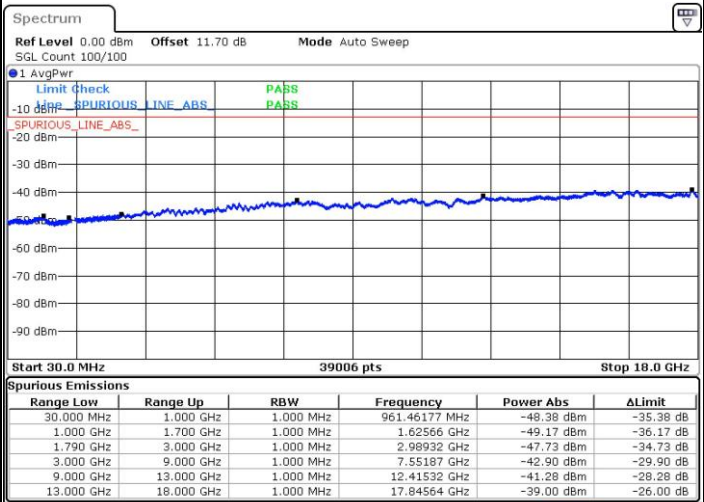
LTE Band 66 / 3MHz

Lowest Channel / QPSK



Date: 30 AUG 2018 16:39:08

Lowest Channel / 16QAM



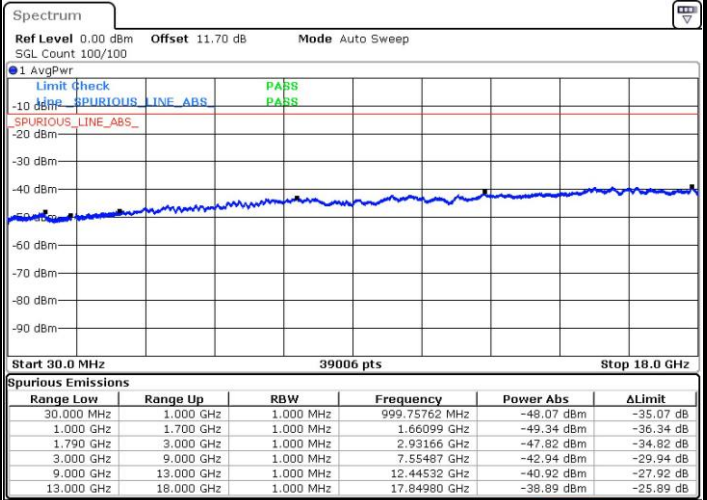
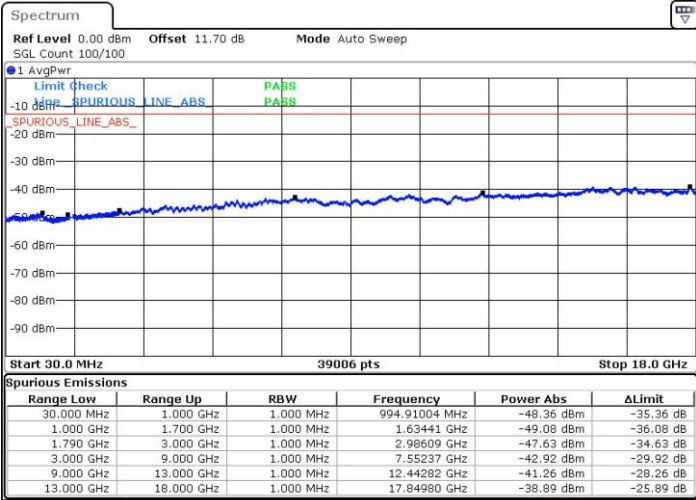
Date: 30 AUG 2018 16:39:59



LTE Band 66 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

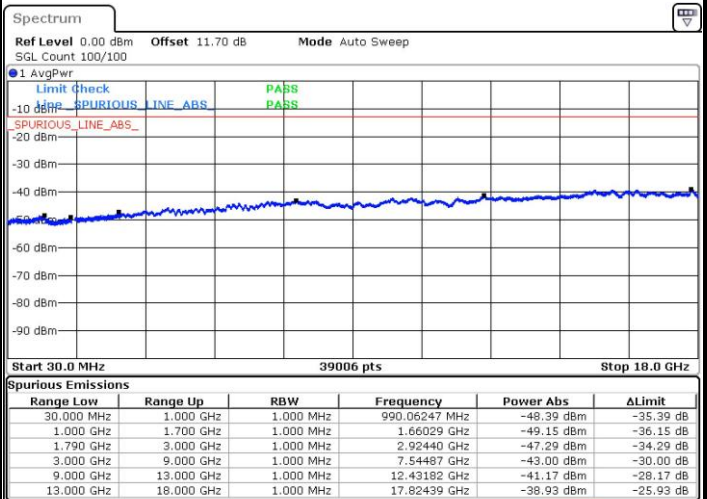
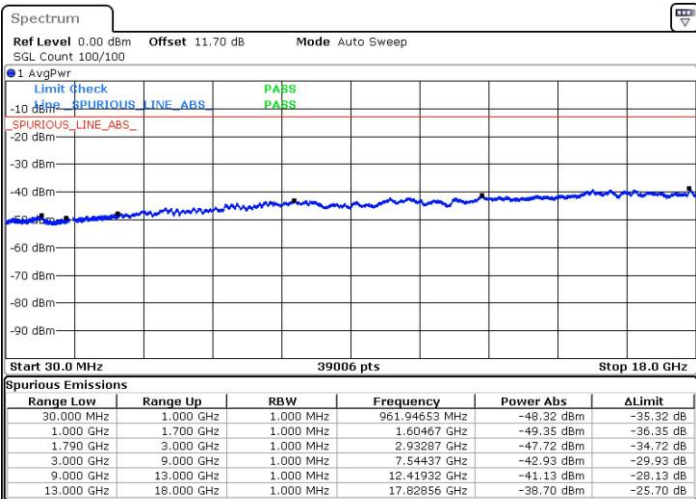


Date: 30 AUG.2018 16:41:36

Date: 30 AUG.2018 16:42:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30 AUG.2018 16:48:43

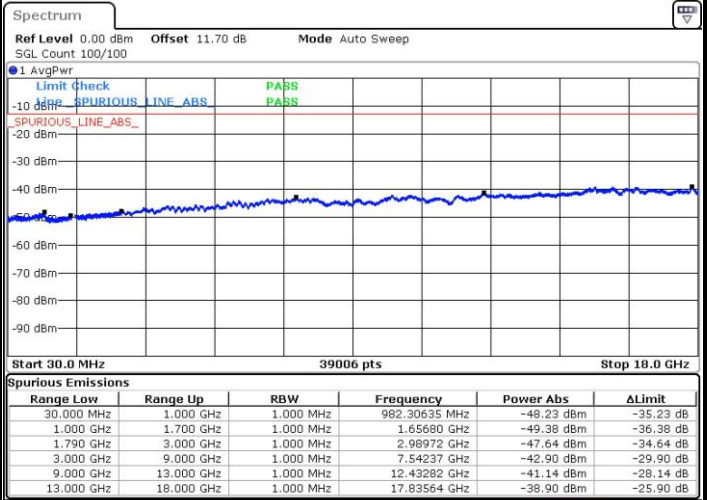
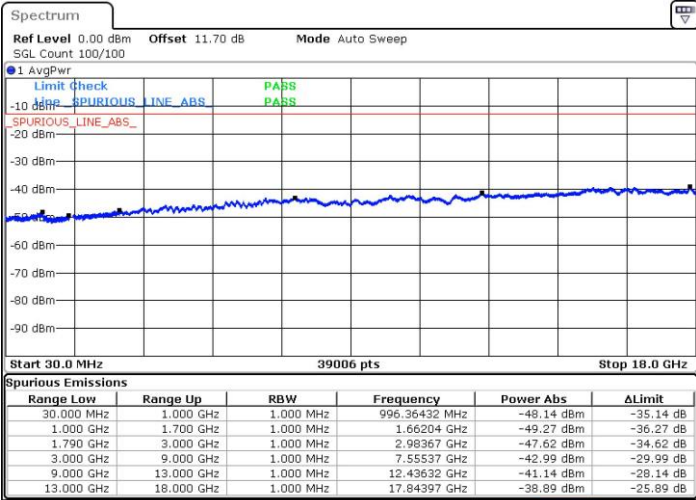
Date: 30 AUG.2018 16:49:34



LTE Band 66 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

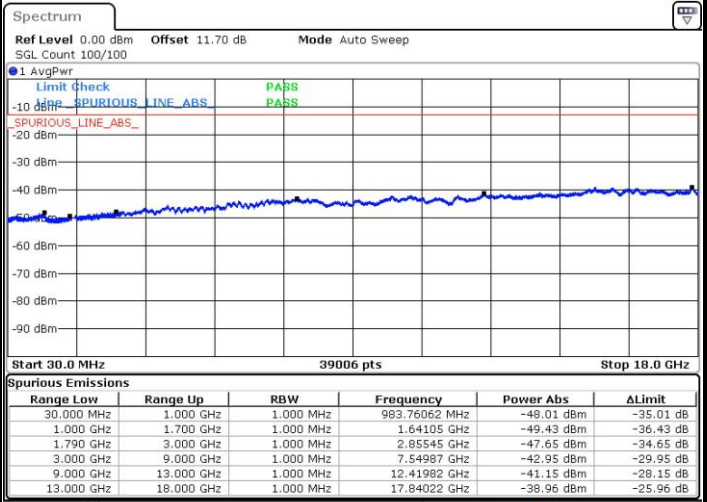
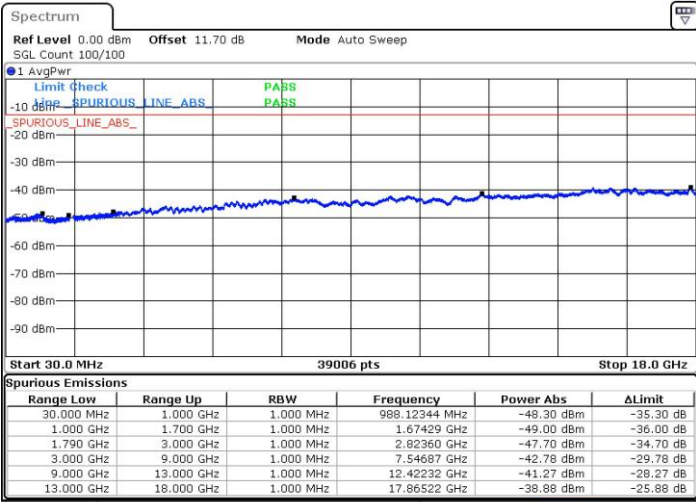


Date: 30 AUG.2018 16:55:51

Date: 30 AUG.2018 16:56:42

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 30 AUG.2018 16:58:19

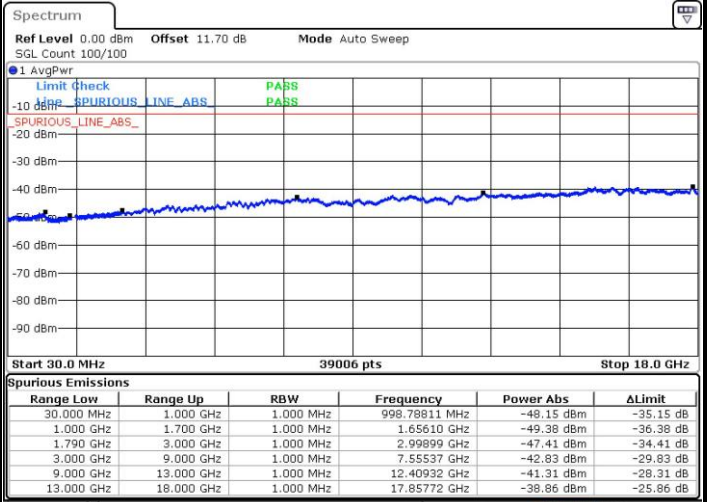
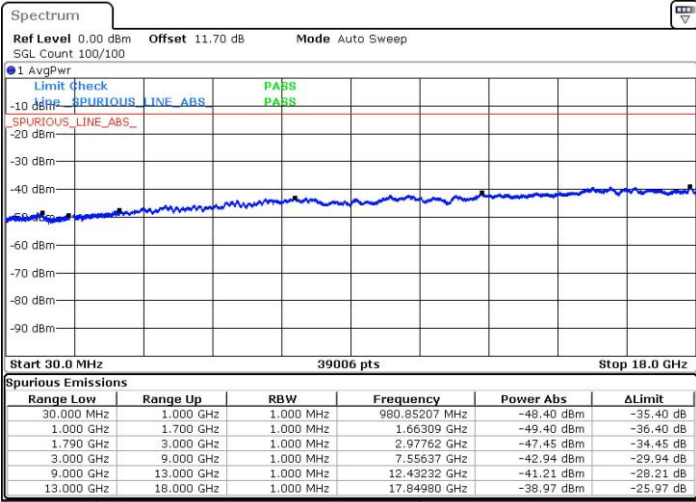
Date: 30 AUG.2018 16:59:10



LTE Band 66 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



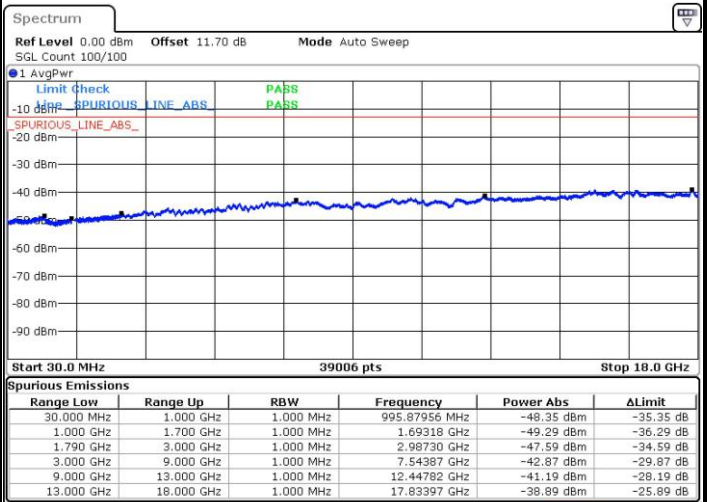
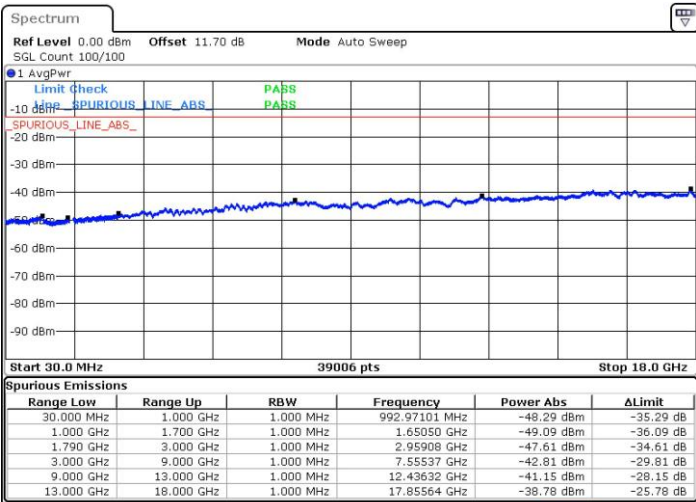
Date: 30 AUG 2018 17:05:27

Date: 30 AUG 2018 17:06:18

LTE Band 66 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 30 AUG 2018 17:12:36

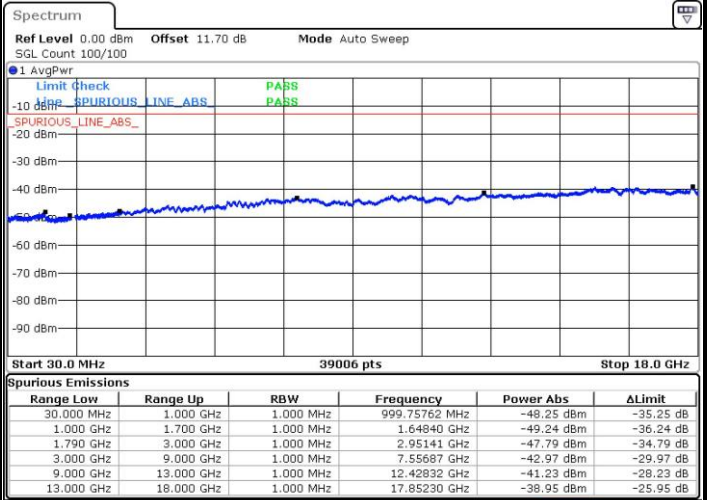
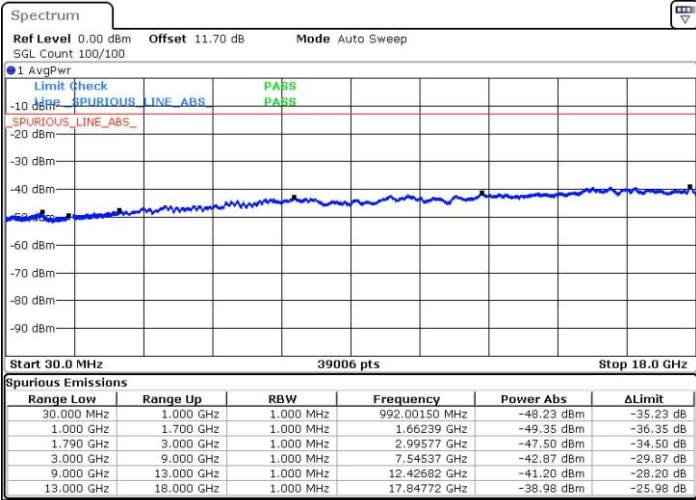
Date: 30 AUG 2018 17:13:27



LTE Band 66 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

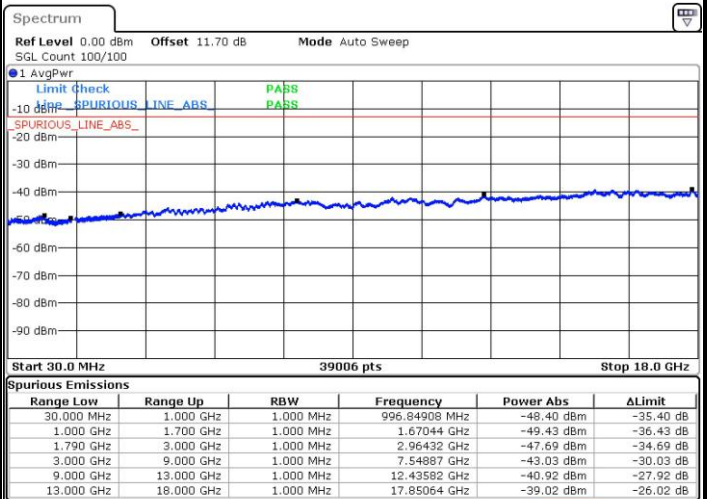
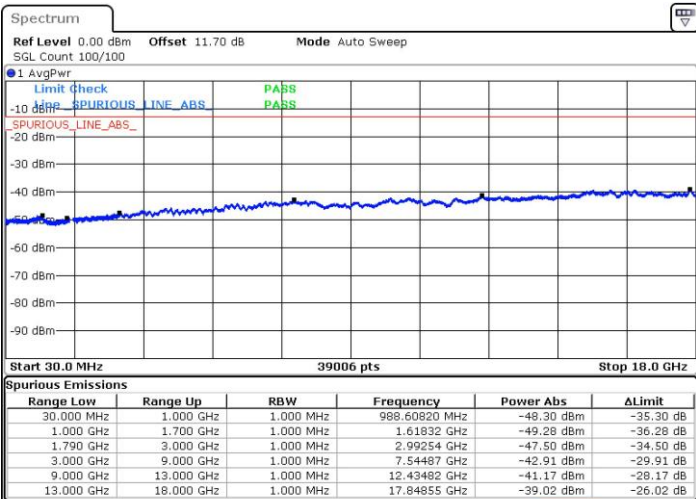


Date: 30 AUG.2018 17:15:04

Date: 30 AUG.2018 17:15:55

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 30 AUG.2018 17:22:12

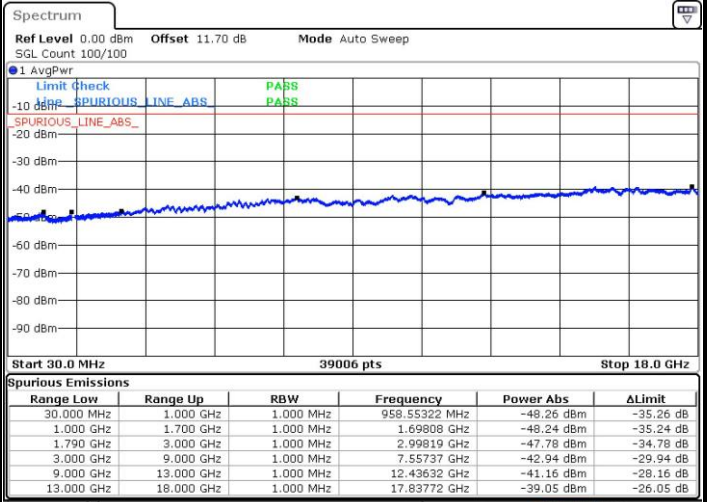
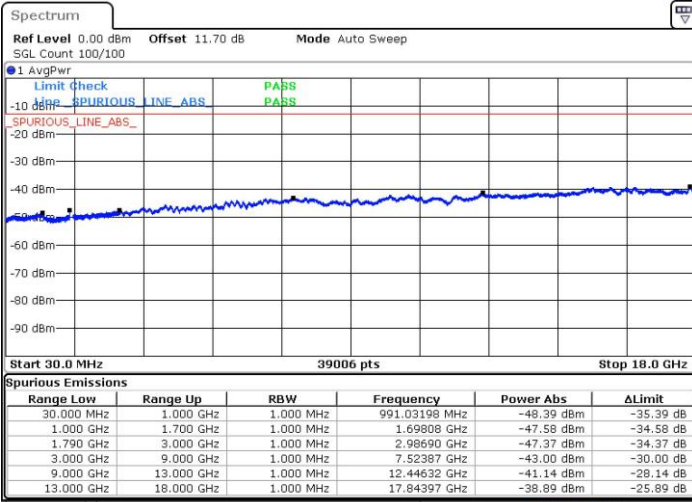
Date: 30 AUG.2018 17:23:03



LTE Band 66 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

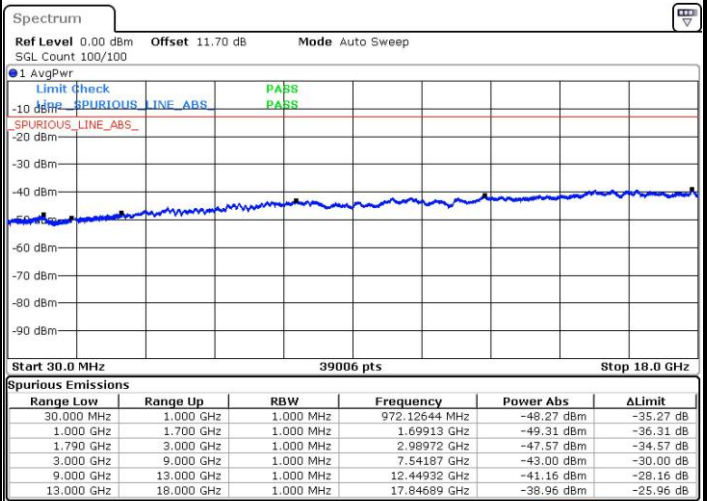
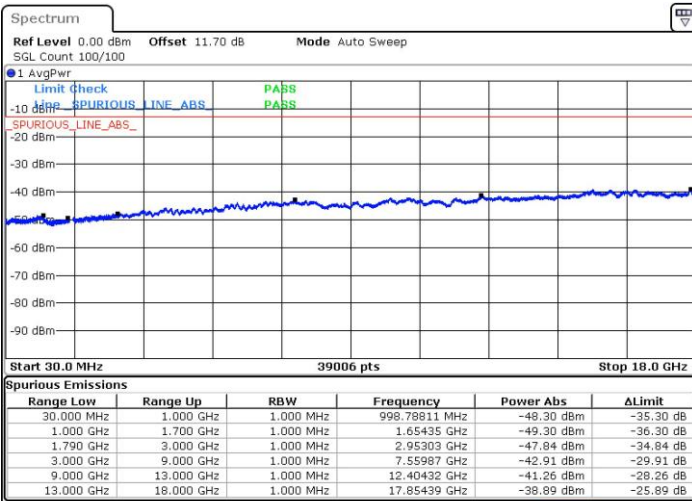


Date: 30 AUG.2018 17:29:20

Date: 30 AUG.2018 17:30:11

Middle Channel / QPSK

Middle Channel / 16QAM



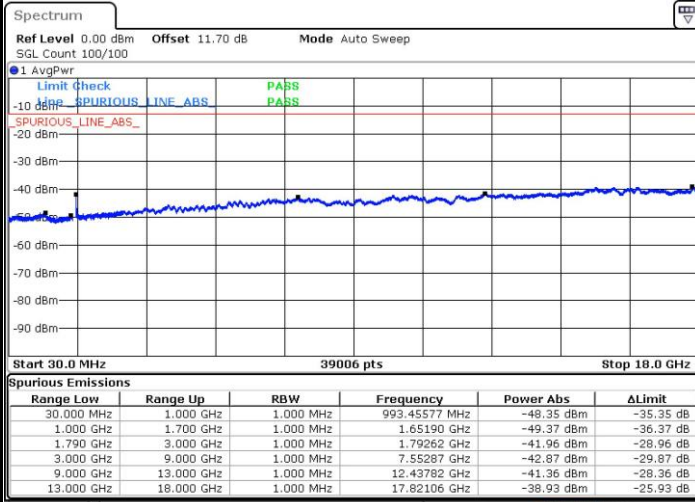
Date: 30 AUG.2018 17:31:48

Date: 30 AUG.2018 17:32:39



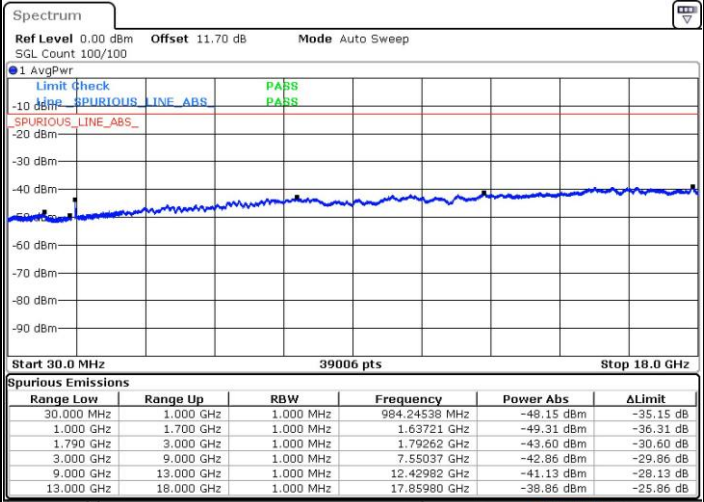
LTE Band 66 / 15MHz

Highest Channel / QPSK



Date: 30 AUG 2018 17:38:56

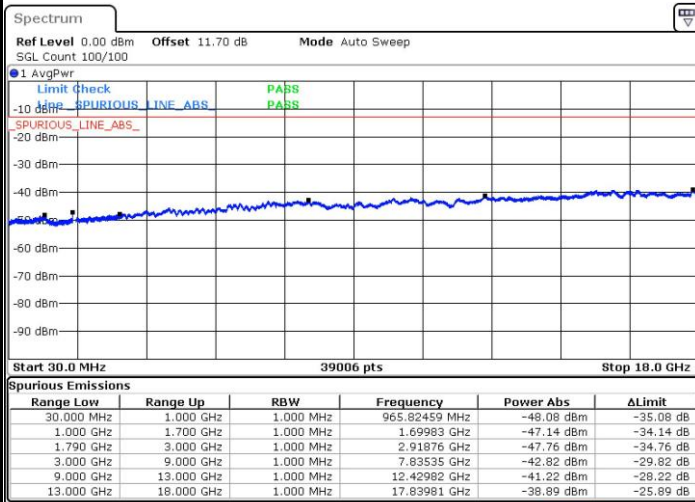
Highest Channel / 16QAM



Date: 30 AUG 2018 17:39:47

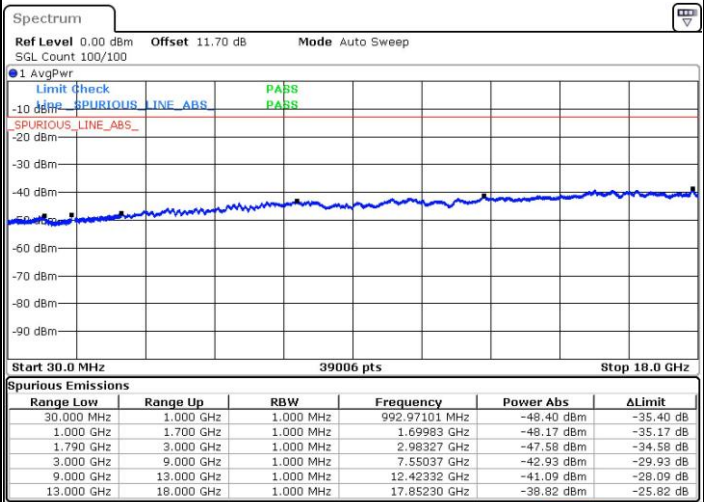
LTE Band 66 / 20MHz

Lowest Channel / QPSK



Date: 30 AUG 2018 17:46:04

Lowest Channel / 16QAM



Date: 30 AUG 2018 17:46:56

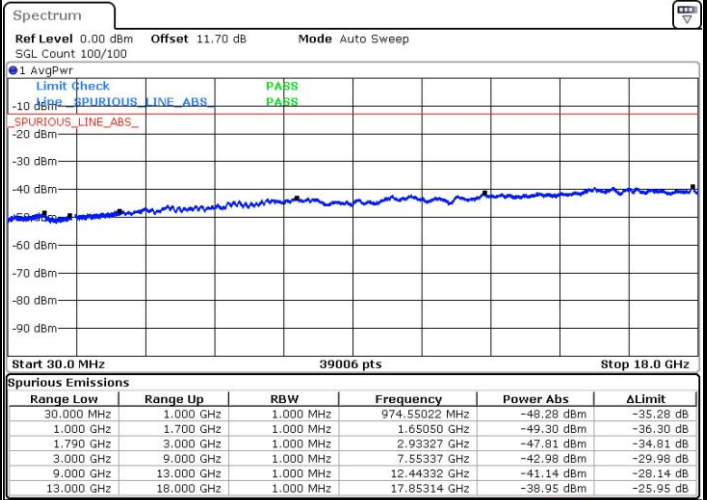
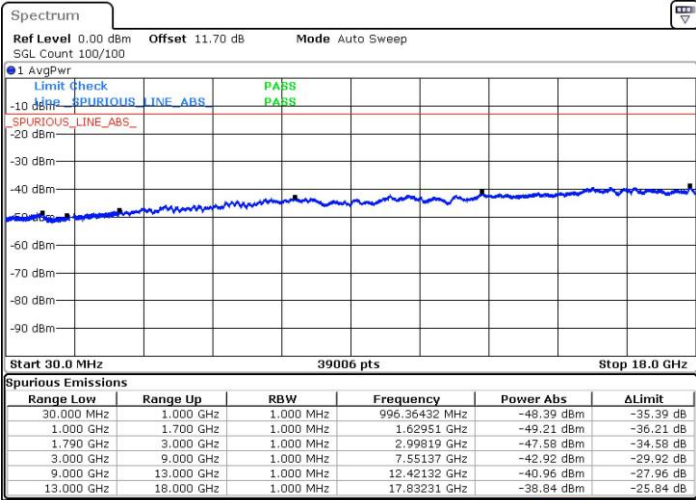




LTE Band 66 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

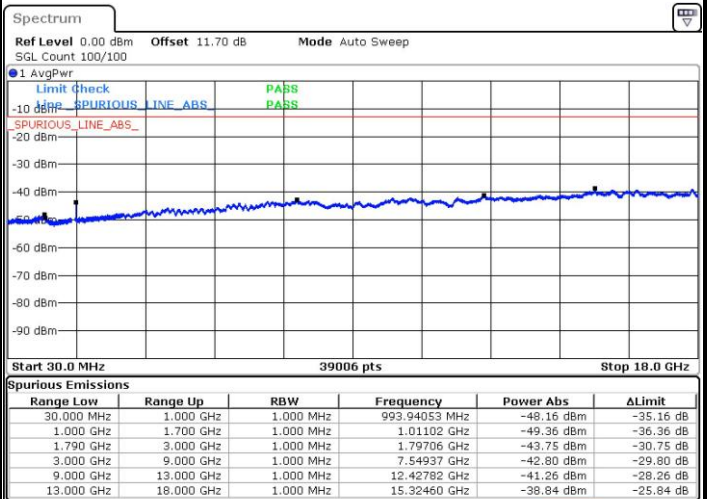
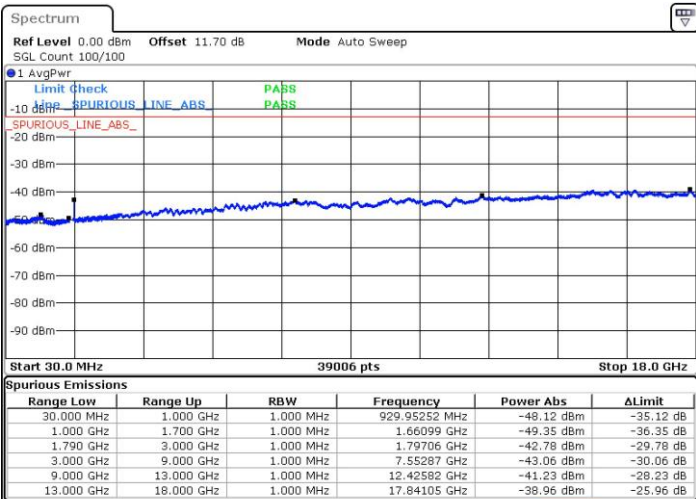


Date: 30 AUG.2018 17:48:32

Date: 30 AUG.2018 17:49:23

Highest Channel / QPSK

Highest Channel / 16QAM



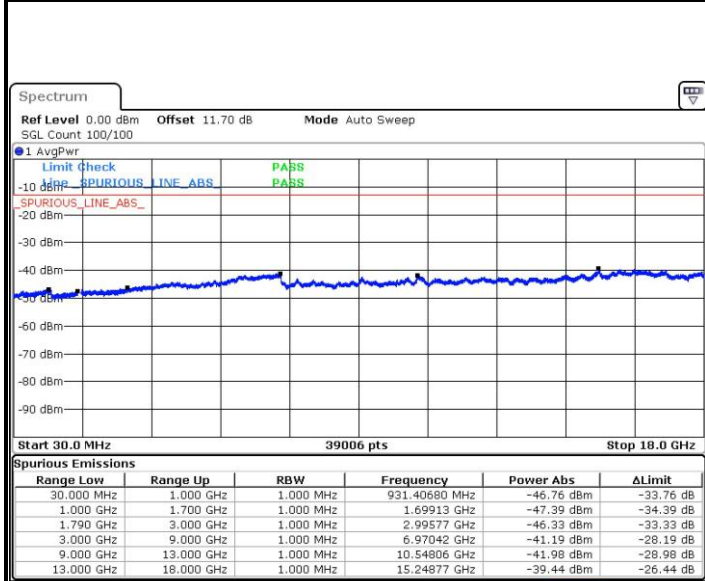
Date: 30 AUG.2018 17:55:40

Date: 30 AUG.2018 17:56:31



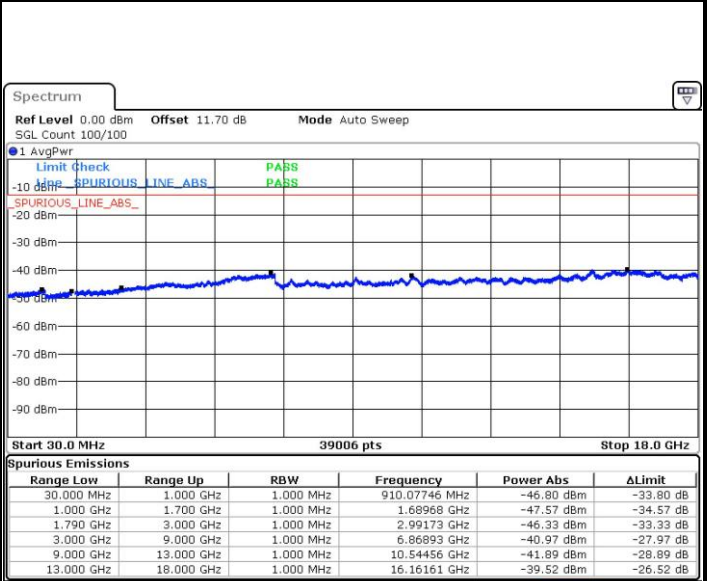
**LTE Band 66 / 1.4MHz**

**Lowest Channel / 64QAM**



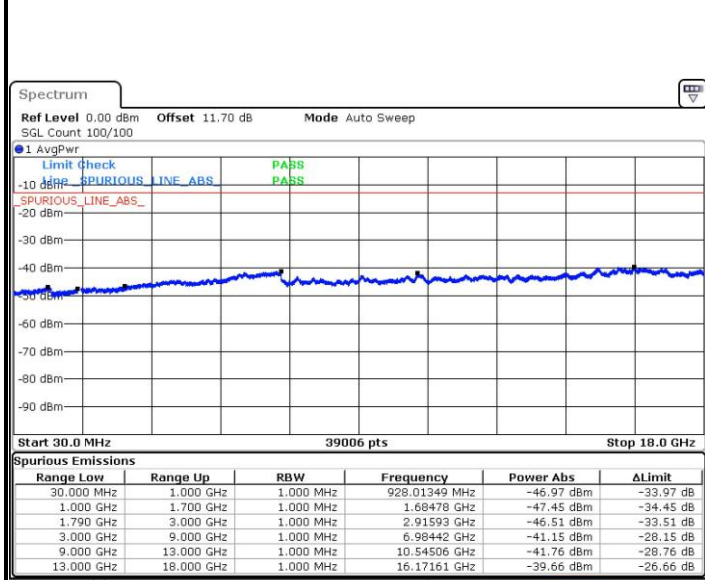
Date: 15.NOV.2018 01:22:44

**Middle Channel / 64QAM**



Date: 15.NOV.2018 01:24:09

**Highest Channel / 64QAM**



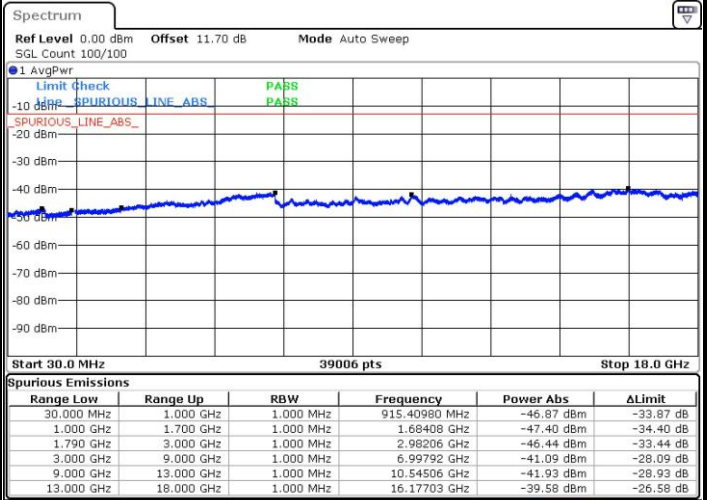
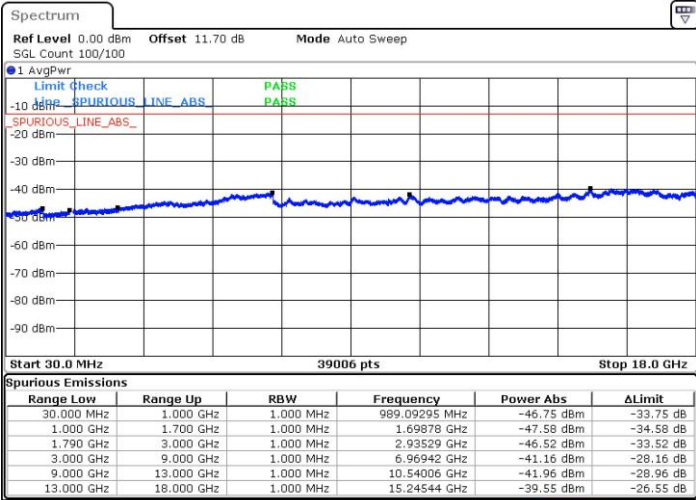
Date: 15.NOV.2018 01:27:38



LTE Band 66 / 3MHz

Lowest Channel / 64QAM

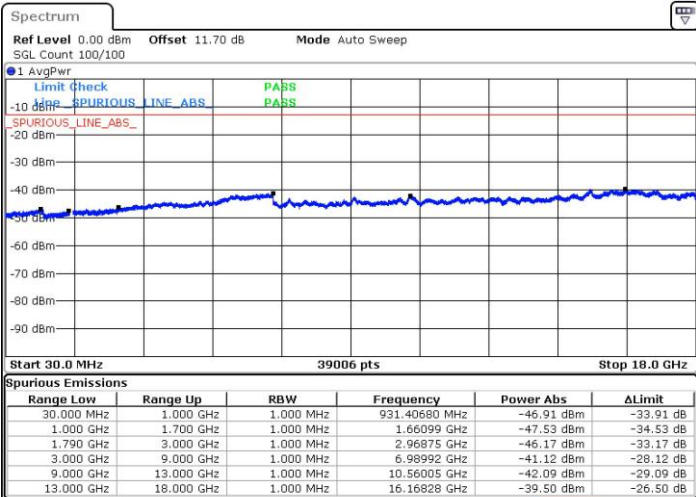
Middle Channel / 64QAM



Date: 14.NOV.2018 23:27:22

Date: 14.NOV.2018 23:28:47

Highest Channel / 64QAM



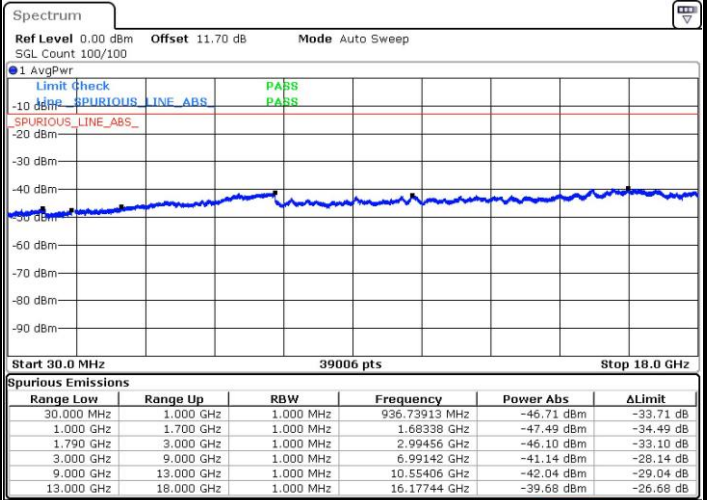
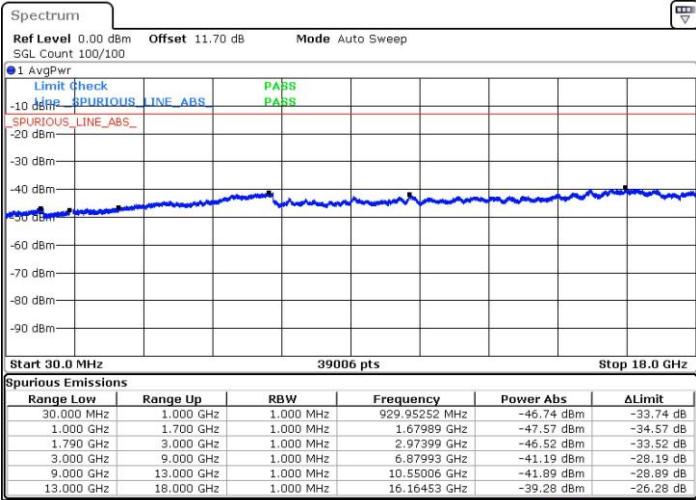
Date: 14.NOV.2018 23:32:10



LTE Band 66 / 5MHz

Lowest Channel / 64QAM

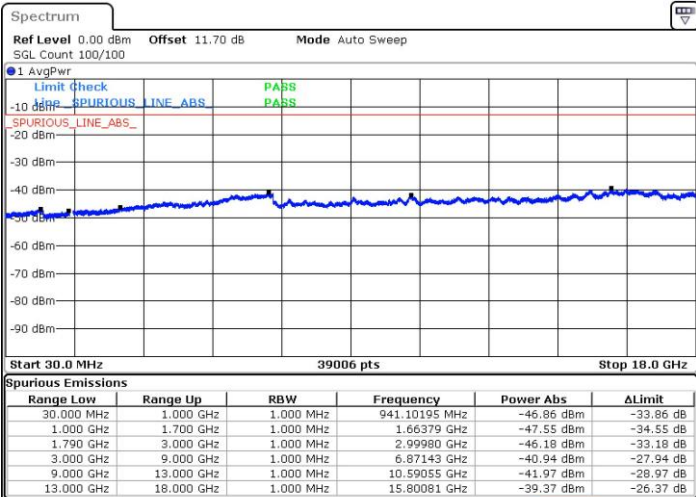
Middle Channel / 64QAM



Date: 14.NOV.2018 23:35:34

Date: 14.NOV.2018 23:36:59

Highest Channel / 64QAM



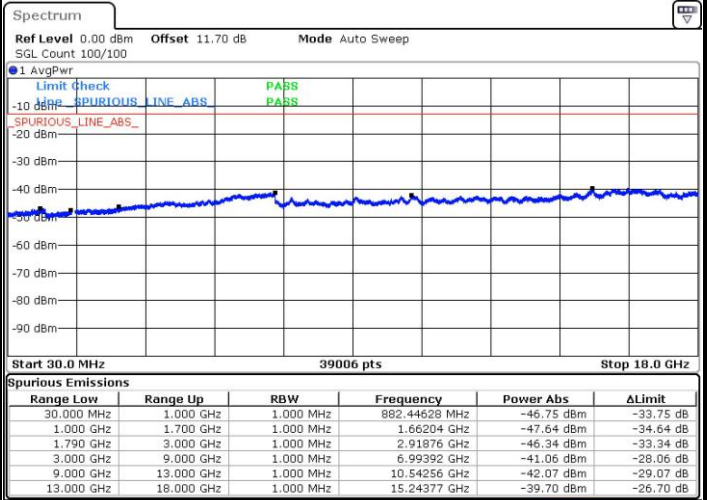
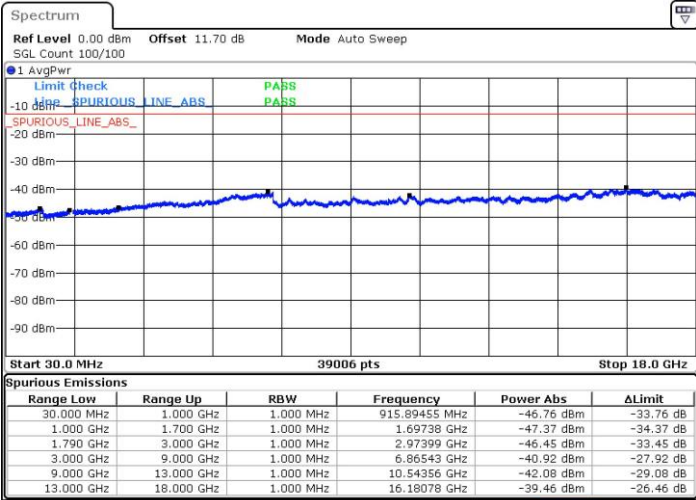
Date: 14.NOV.2018 23:40:22



LTE Band 66 / 10MHz

Lowest Channel / 64QAM

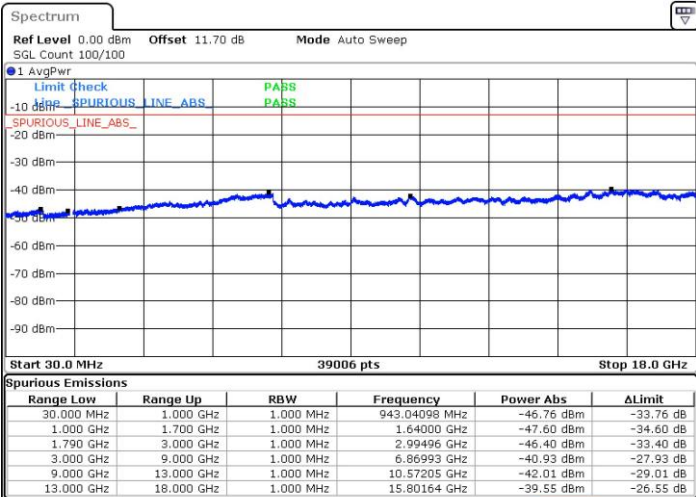
Middle Channel / 64QAM



Date: 15.NOV.2018 00:47:56

Date: 15.NOV.2018 00:49:20

Highest Channel / 64QAM



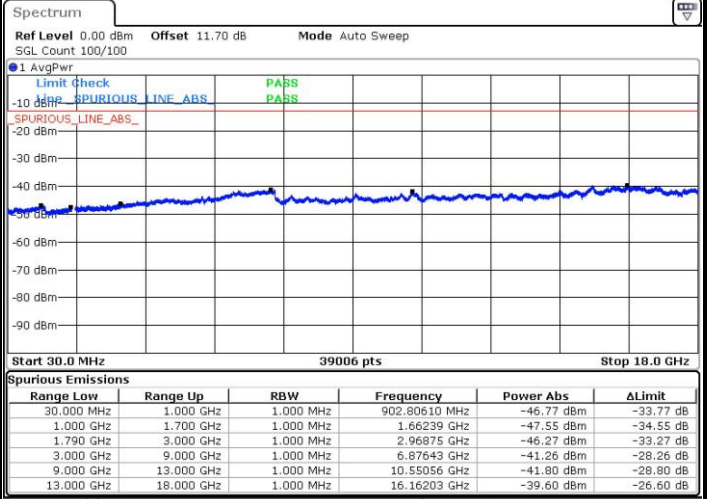
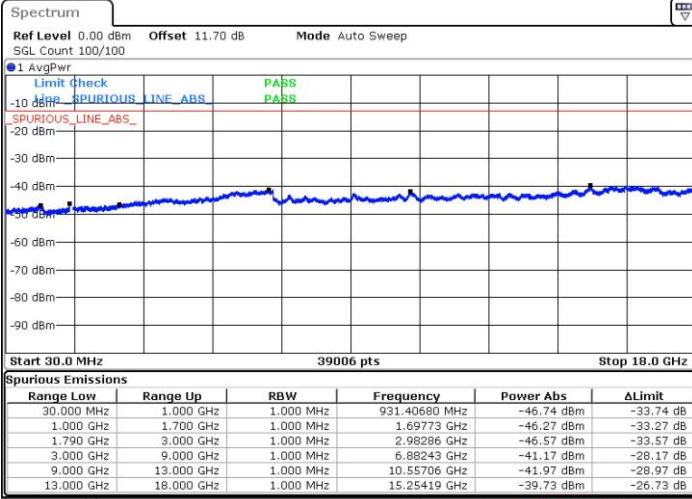
Date: 15.NOV.2018 00:52:44



LTE Band 66 / 15MHz

Lowest Channel / 64QAM

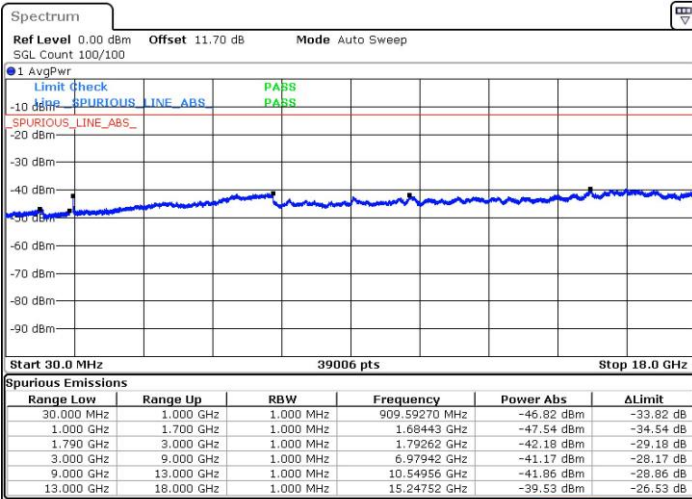
Middle Channel / 64QAM



Date: 15.NOV.2018 00:56:09

Date: 15.NOV.2018 00:57:34

Highest Channel / 64QAM



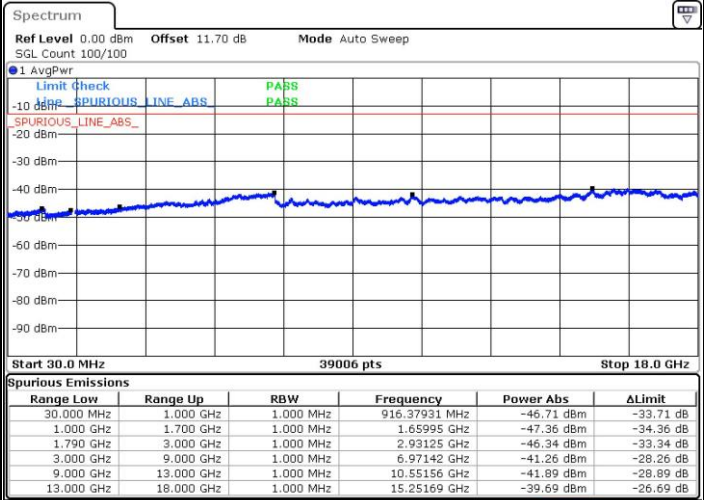
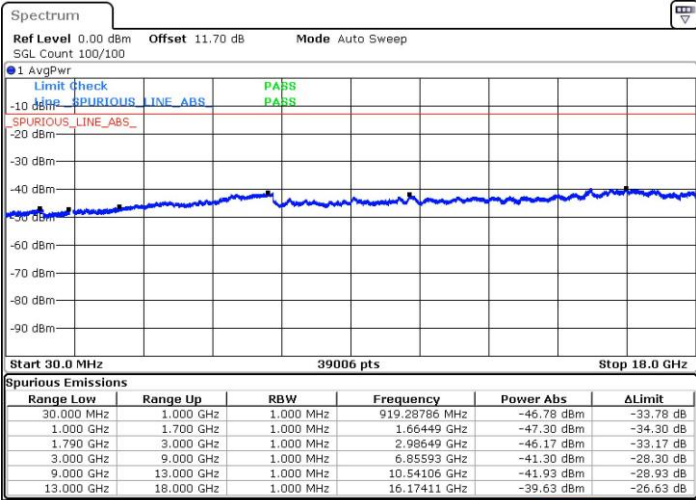
Date: 15.NOV.2018 01:00:57



LTE Band 66 / 20MHz

Lowest Channel / 64QAM

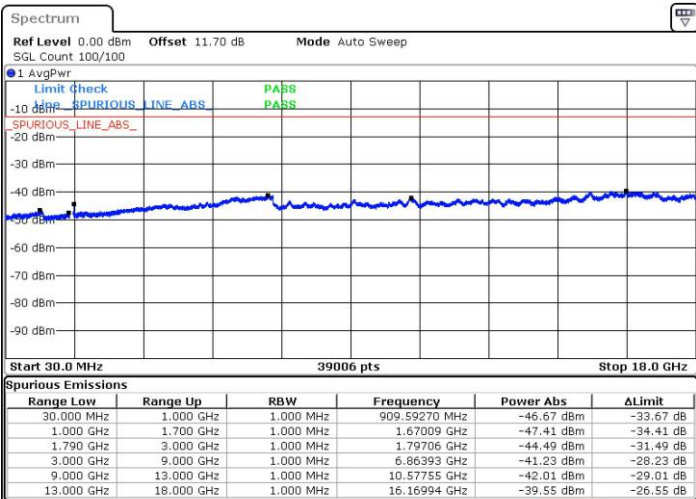
Middle Channel / 64QAM



Date: 15.NOV.2018 01:04:24

Date: 15.NOV.2018 01:05:49

Highest Channel / 64QAM



Date: 15.NOV.2018 01:09:13



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	0.0057	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0061	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0060	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 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) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	23.55	0.2265	21.65	0.1462
Middle		3	1	23.63	0.2307	21.73	0.1489
Highest		3	1	23.62	0.2301	21.72	0.1486
Lowest	16QAM	1	3	22.86	0.1932	20.96	0.1247
Middle		1	3	22.83	0.1919	20.93	0.1239
Highest		1	3	22.82	0.1914	20.92	0.1236
Lowest	64QAM	1	3	21.80	0.1514	19.90	0.0977
Middle		1	3	21.81	0.1517	19.91	0.0979
Highest		1	3	21.78	0.1507	19.88	0.0973
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.58	0.2280	21.68	0.1472
Middle		1	0	23.66	0.2323	21.76	0.1500
Highest		1	0	23.69	0.2339	21.79	0.1510
Lowest	16QAM	1	8	22.85	0.1928	20.95	0.1245
Middle		1	8	22.92	0.1959	21.02	0.1265
Highest		1	8	22.85	0.1928	20.95	0.1245
Lowest	64QAM	1	8	21.86	0.1535	19.96	0.0991
Middle		1	8	21.90	0.1549	20.00	0.1000
Highest		1	8	21.89	0.1545	19.99	0.0998
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	23.62	0.2301	21.72	0.1486
Middle		1	12	23.65	0.2317	21.75	0.1496
Highest		1	12	23.68	0.2333	21.78	0.1507
Lowest	16QAM	1	12	22.92	0.1959	21.02	0.1265
Middle		1	12	22.95	0.1972	21.05	0.1274
Highest		1	12	22.85	0.1928	20.95	0.1245
Lowest	64QAM	1	0	21.91	0.1552	20.01	0.1002
Middle		1	0	21.86	0.1535	19.96	0.0991
Highest		1	0	21.86	0.1535	19.96	0.0991
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.74	0.2366	21.84	0.1528
Middle		1	0	23.82	0.2410	21.92	0.1556
Highest		1	0	23.72	0.2355	21.82	0.1521
Lowest	16QAM	1	0	23.04	0.2014	21.14	0.1300
Middle		1	0	22.98	0.1986	21.08	0.1282
Highest		1	0	22.95	0.1972	21.05	0.1274
Lowest	64QAM	1	0	21.98	0.1578	20.08	0.1019
Middle		1	0	21.91	0.1552	20.01	0.1002
Highest		1	0	21.92	0.1556	20.02	0.1005
Limit	EIRP < 2W		Result		PASS		

LTE Band 2 / 15MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.40	0.2188	21.50	0.1413
Middle		1	0	23.53	0.2254	21.63	0.1455
Highest		1	0	23.59	0.2286	21.69	0.1476
Lowest	16QAM	1	0	22.77	0.1892	20.87	0.1222
Middle		1	0	22.70	0.1862	20.80	0.1202
Highest		1	0	22.89	0.1945	20.99	0.1256
Lowest	64QAM	1	0	21.68	0.1472	19.78	0.0951
Middle		1	0	21.67	0.1469	19.77	0.0948
Highest		1	0	21.79	0.1510	19.89	0.0975
Limit	EIRP < 2W		Result		PASS		

LTE Band 2 / 20MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.83	0.2415	21.93	0.1560
Middle		1	0	23.75	0.2371	21.85	0.1531
Highest		1	0	23.66	0.2323	21.76	0.1500
Lowest	16QAM	1	0	23.16	0.2070	21.26	0.1337
Middle		1	0	22.89	0.1945	20.99	0.1256
Highest		1	0	22.91	0.1954	21.01	0.1262
Lowest	64QAM	1	0	22.02	0.1592	20.12	0.1028
Middle		1	0	21.80	0.1514	19.90	0.0977
Highest		1	0	21.86	0.1535	19.96	0.0991
Limit	EIRP < 2W		Result		PASS		



LTE Band 25 / 1.4MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	23.90	0.2455	22.00	0.1585
Middle		3	1	23.73	0.2360	21.83	0.1524
Highest		3	1	23.76	0.2377	21.86	0.1535
Lowest	16QAM	1	3	23.18	0.2080	21.28	0.1343
Middle		1	3	22.97	0.1982	21.07	0.1279
Highest		1	3	22.77	0.1892	20.87	0.1222
Lowest	64QAM	3	1	22.14	0.1637	20.24	0.1057
Middle		3	1	21.94	0.1563	20.04	0.1009
Highest		3	1	21.73	0.1489	19.83	0.0962
Limit	EIRP < 2W		Result		PASS		

LTE Band 25 / 3MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	23.85	0.2427	21.95	0.1567
Middle		1	8	23.69	0.2339	21.79	0.1510
Highest		1	8	23.65	0.2317	21.75	0.1496
Lowest	16QAM	1	8	23.12	0.2051	21.22	0.1324
Middle		1	8	22.97	0.1982	21.07	0.1279
Highest		1	8	22.74	0.1879	20.84	0.1213
Lowest	64QAM	1	8	22.12	0.1629	20.22	0.1052
Middle		1	8	21.94	0.1563	20.04	0.1009
Highest		1	8	21.74	0.1493	19.84	0.0964
Limit	EIRP < 2W		Result		PASS		

LTE Band 25 / 5MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.86	0.2432	21.96	0.1570
Middle		1	0	23.69	0.2339	21.79	0.1510
Highest		1	0	23.61	0.2296	21.71	0.1483
Lowest	16QAM	1	12	23.13	0.2056	21.23	0.1327
Middle		1	12	22.97	0.1982	21.07	0.1279
Highest		1	12	22.74	0.1879	20.84	0.1213
Lowest	64QAM	1	0	22.12	0.1629	20.22	0.1052
Middle		1	0	21.89	0.1545	19.99	0.0998
Highest		1	0	21.76	0.1500	19.86	0.0968
Limit	EIRP < 2W		Result		PASS		



LTE Band 25 / 10MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.95	0.2483	22.05	0.1603
Middle		1	0	23.78	0.2388	21.88	0.1542
Highest		1	0	23.63	0.2307	21.73	0.1489
Lowest	16QAM	1	0	23.25	0.2113	21.35	0.1365
Middle		1	0	22.98	0.1986	21.08	0.1282
Highest		1	0	22.87	0.1936	20.97	0.1250
Lowest	64QAM	1	0	22.20	0.1660	20.30	0.1072
Middle		1	0	21.99	0.1581	20.09	0.1021
Highest		1	0	21.85	0.1531	19.95	0.0989
Limit	EIRP < 2W		Result		PASS		

LTE Band 25 / 15MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.94	0.2477	22.04	0.1600
Middle		1	0	23.67	0.2328	21.77	0.1503
Highest		1	0	23.52	0.2249	21.62	0.1452
Lowest	16QAM	1	0	23.23	0.2104	21.33	0.1358
Middle		1	0	22.81	0.1910	20.91	0.1233
Highest		1	0	22.83	0.1919	20.93	0.1239
Lowest	64QAM	1	0	22.19	0.1656	20.29	0.1069
Middle		1	0	21.83	0.1524	19.93	0.0984
Highest		1	0	21.77	0.1503	19.87	0.0971
Limit	EIRP < 2W		Result		PASS		

LTE Band 25 / 20MHz (Average) (GT - LC = -1.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.99	0.2506	22.09	0.1618
Middle		1	0	23.69	0.2339	21.79	0.1510
Highest		1	0	23.60	0.2291	21.70	0.1479
Lowest	16QAM	1	0	23.27	0.2123	21.37	0.1371
Middle		1	0	22.85	0.1928	20.95	0.1245
Highest		1	0	22.88	0.1941	20.98	0.1253
Lowest	64QAM	1	0	22.23	0.1671	20.33	0.1079
Middle		1	0	21.84	0.1528	19.94	0.0986
Highest		1	0	21.83	0.1524	19.93	0.0984
Limit	EIRP < 2W		Result		PASS		



LTE Band 4 / 1.4MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	24.45	0.2786	21.85	0.1531
Middle		3	1	24.26	0.2667	21.66	0.1466
Highest		3	1	24.39	0.2748	21.79	0.1510
Lowest	16QAM	1	3	23.41	0.2193	20.81	0.1205
Middle		1	3	23.41	0.2193	20.81	0.1205
Highest		1	3	23.50	0.2239	20.90	0.1230
Lowest	64QAM	1	3	22.42	0.1746	19.82	0.0959
Middle		1	3	22.47	0.1766	19.87	0.0971
Highest		1	3	22.50	0.1778	19.90	0.0977
Limit	EIRP < 1W		Result		PASS		

LTE Band 4 / 3MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.43	0.2773	21.83	0.1524
Middle		1	0	24.28	0.2679	21.68	0.1472
Highest		1	0	24.31	0.2698	21.71	0.1483
Lowest	16QAM	1	0	23.35	0.2163	20.75	0.1189
Middle		1	0	23.50	0.2239	20.90	0.1230
Highest		1	0	23.49	0.2234	20.89	0.1227
Lowest	64QAM	1	0	22.46	0.1762	19.86	0.0968
Middle		1	0	22.50	0.1778	19.90	0.0977
Highest		1	0	22.45	0.1758	19.85	0.0966
Limit	EIRP < 1W		Result		PASS		

LTE Band 4 / 5MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	24.41	0.2761	21.81	0.1517
Middle		1	12	24.31	0.2698	21.71	0.1483
Highest		1	12	24.35	0.2723	21.75	0.1496
Lowest	16QAM	1	0	23.37	0.2173	20.77	0.1194
Middle		1	0	23.50	0.2239	20.90	0.1230
Highest		1	0	23.50	0.2239	20.90	0.1230
Lowest	64QAM	1	0	22.39	0.1734	19.79	0.0953
Middle		1	0	22.50	0.1778	19.90	0.0977
Highest		1	0	22.48	0.1770	19.88	0.0973
Limit	EIRP < 1W		Result		PASS		



LTE Band 4 / 10MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.44	0.2780	21.84	0.1528
Middle		1	0	24.35	0.2723	21.75	0.1496
Highest		1	0	24.32	0.2704	21.72	0.1486
Lowest	16QAM	1	0	23.42	0.2198	20.82	0.1208
Middle		1	0	23.50	0.2239	20.90	0.1230
Highest		1	0	23.41	0.2193	20.81	0.1205
Lowest	64QAM	1	0	22.39	0.1734	19.79	0.0953
Middle		1	0	22.50	0.1778	19.90	0.0977
Highest		1	0	22.37	0.1726	19.77	0.0948
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.29	0.2685	21.69	0.1476
Middle		1	0	24.34	0.2716	21.74	0.1493
Highest		1	0	24.26	0.2667	21.66	0.1466
Lowest	16QAM	1	0	23.33	0.2153	20.73	0.1183
Middle		1	0	23.50	0.2239	20.90	0.1230
Highest		1	0	23.31	0.2143	20.71	0.1178
Lowest	64QAM	1	74	22.50	0.1778	19.90	0.0977
Middle		1	74	22.26	0.1683	19.66	0.0925
Highest		1	74	22.50	0.1778	19.90	0.0977
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.30	0.2692	21.70	0.1479
Middle		1	0	24.45	0.2786	21.85	0.1531
Highest		1	0	24.28	0.2679	21.68	0.1472
Lowest	16QAM	1	0	23.32	0.2148	20.72	0.1180
Middle		1	0	23.50	0.2239	20.90	0.1230
Highest		1	0	23.38	0.2178	20.78	0.1197
Lowest	64QAM	1	49	22.50	0.1778	19.90	0.0977
Middle		1	49	22.41	0.1742	19.81	0.0957
Highest		1	49	22.28	0.1690	19.68	0.0929
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -4.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	24.46	0.2793	17.51	0.0564
Middle		3	1	24.31	0.2698	17.36	0.0545
Highest		3	1	24.47	0.2799	17.52	0.0565
Lowest	16QAM	1	3	23.50	0.2239	16.55	0.0452
Middle		1	3	23.47	0.2223	16.52	0.0449
Highest		1	3	23.46	0.2218	16.51	0.0448
Lowest	64QAM	1	3	22.49	0.1774	15.54	0.0358
Middle		1	3	22.44	0.1754	15.49	0.0354
Highest		1	3	22.44	0.1754	15.49	0.0354
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -4.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.44	0.2780	17.49	0.0561
Middle		1	0	24.26	0.2667	17.31	0.0538
Highest		1	0	24.39	0.2748	17.44	0.0555
Lowest	16QAM	1	0	23.47	0.2223	16.52	0.0449
Middle		1	0	23.50	0.2239	16.55	0.0452
Highest		1	0	23.47	0.2223	16.52	0.0449
Lowest	64QAM	1	0	22.49	0.1774	15.54	0.0358
Middle		1	0	22.44	0.1754	15.49	0.0354
Highest		1	0	22.47	0.1766	15.52	0.0356
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -4.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.43	0.2773	17.48	0.0560
Middle		1	0	24.27	0.2673	17.32	0.0540
Highest		1	0	24.28	0.2679	17.33	0.0541
Lowest	16QAM	1	0	23.50	0.2239	16.55	0.0452
Middle		1	0	23.45	0.2213	16.50	0.0447
Highest		1	0	23.36	0.2168	16.41	0.0438
Lowest	64QAM	1	0	22.46	0.1762	15.51	0.0356
Middle		1	0	22.45	0.1758	15.50	0.0355
Highest		1	0	22.39	0.1734	15.44	0.0350
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -4.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.50	0.2818	17.55	0.0569
Middle		1	0	24.36	0.2729	17.41	0.0551
Highest		1	0	24.33	0.2710	17.38	0.0547
Lowest	16QAM	1	0	23.49	0.2234	16.54	0.0451
Middle		1	0	23.50	0.2239	16.55	0.0452
Highest		1	0	23.49	0.2234	16.54	0.0451
Lowest	64QAM	1	0	22.45	0.1758	15.50	0.0355
Middle		1	0	22.44	0.1754	15.49	0.0354
Highest		1	0	22.43	0.1750	15.48	0.0353
Limit	ERP < 7W			Result		PASS	





LTE Band 7 / 5MHz (Average) (GT - LC = -2.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	24.01	0.2518	21.51	0.1416
Middle		1	24	23.97	0.2495	21.47	0.1403
Highest		1	24	23.90	0.2455	21.40	0.1380
Lowest	16QAM	1	24	23.37	0.2173	20.87	0.1222
Middle		1	24	23.30	0.2138	20.80	0.1202
Highest		1	24	23.19	0.2084	20.69	0.1172
Lowest	64QAM	1	12	22.32	0.1706	19.82	0.0959
Middle		1	12	22.26	0.1683	19.76	0.0946
Highest		1	12	22.21	0.1663	19.71	0.0935
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = -2.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	24.00	0.2512	21.50	0.1413
Middle		1	49	24.02	0.2523	21.52	0.1419
Highest		1	49	23.97	0.2495	21.47	0.1403
Lowest	16QAM	1	49	23.38	0.2178	20.88	0.1225
Middle		1	49	23.33	0.2153	20.83	0.1211
Highest		1	49	23.24	0.2109	20.74	0.1186
Lowest	64QAM	1	49	22.39	0.1734	19.89	0.0975
Middle		1	49	22.34	0.1714	19.84	0.0964
Highest		1	49	22.27	0.1687	19.77	0.0948
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = -2.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	23.99	0.2506	21.49	0.1409
Middle		1	74	23.94	0.2477	21.44	0.1393
Highest		1	74	24.02	0.2523	21.52	0.1419
Lowest	16QAM	1	74	23.40	0.2188	20.90	0.1230
Middle		1	74	23.43	0.2203	20.93	0.1239
Highest		1	74	23.37	0.2173	20.87	0.1222
Lowest	64QAM	1	74	22.28	0.1690	19.78	0.0951
Middle		1	74	22.34	0.1714	19.84	0.0964
Highest		1	74	22.33	0.1710	19.83	0.0962
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 20MHz (Average) (GT - LC = -2.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	99	23.95	0.2483	21.45	0.1396
Middle		1	99	24.03	0.2529	21.53	0.1422
Highest		1	99	23.95	0.2483	21.45	0.1396
Lowest	16QAM	1	99	23.40	0.2188	20.90	0.1230
Middle		1	99	23.40	0.2188	20.90	0.1230
Highest		1	99	23.35	0.2163	20.85	0.1216
Lowest	64QAM	1	99	22.25	0.1679	19.75	0.0944
Middle		1	99	22.27	0.1687	19.77	0.0948
Highest		1	99	22.26	0.1683	19.76	0.0946
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -7.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	24.49	0.2812	15.14	0.0327
Middle		3	0	24.21	0.2636	14.86	0.0306
Highest		3	0	24.38	0.2742	15.03	0.0318
Lowest	16QAM	1	0	23.48	0.2228	14.13	0.0259
Middle		1	0	23.12	0.2051	13.77	0.0238
Highest		1	0	23.30	0.2138	13.95	0.0248
Lowest	64QAM	3	1	22.46	0.1762	13.11	0.0205
Middle		3	1	22.13	0.1633	12.78	0.0190
Highest		3	1	22.32	0.1706	12.97	0.0198
Limit	ERP < 3W		Result		PASS		

LTE Band 12 / 3MHz (Average) (GT - LC = -7.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	24.49	0.2812	15.14	0.0327
Middle		1	8	24.23	0.2649	14.88	0.0308
Highest		1	8	24.41	0.2761	15.06	0.0321
Lowest	16QAM	1	0	23.50	0.2239	14.15	0.0260
Middle		1	0	23.16	0.2070	13.81	0.0240
Highest		1	0	23.32	0.2148	13.97	0.0249
Lowest	64QAM	1	8	22.44	0.1754	13.09	0.0204
Middle		1	8	22.18	0.1652	12.83	0.0192
Highest		1	8	22.31	0.1702	12.96	0.0198
Limit	ERP < 3W		Result		PASS		

LTE Band 12 / 5MHz (Average) (GT - LC = -7.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.48	0.2805	15.13	0.0326
Middle		1	0	24.20	0.2630	14.85	0.0305
Highest		1	0	24.34	0.2716	14.99	0.0316
Lowest	16QAM	1	0	23.50	0.2239	14.15	0.0260
Middle		1	0	23.14	0.2061	13.79	0.0239
Highest		1	0	23.42	0.2198	14.07	0.0255
Lowest	64QAM	1	0	22.48	0.1770	13.13	0.0206
Middle		1	0	22.10	0.1622	12.75	0.0188
Highest		1	0	22.39	0.1734	13.04	0.0201
Limit	ERP < 3W		Result		PASS		



LTE Band 12 / 10MHz (Average) (GT - LC = -7.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.33	0.2710	14.98	0.0315
Middle		1	0	24.49	0.2812	15.14	0.0327
Highest		1	0	24.19	0.2624	14.84	0.0305
Lowest	16QAM	1	0	23.50	0.2239	14.15	0.0260
Middle		1	0	23.40	0.2188	14.05	0.0254
Highest		1	0	23.27	0.2123	13.92	0.0247
Lowest	64QAM	1	25	22.36	0.1722	13.01	0.0200
Middle		1	25	22.35	0.1718	13.00	0.0200
Highest		1	25	22.50	0.1778	13.15	0.0207
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	24.32	0.2704	17.87	0.0612
Middle		1	24	24.29	0.2685	17.84	0.0608
Highest		1	24	24.13	0.2588	17.68	0.0586
Lowest	16QAM	1	12	23.44	0.2208	16.99	0.0500
Middle		1	12	23.50	0.2239	17.05	0.0507
Highest		1	12	23.36	0.2168	16.91	0.0491
Lowest	64QAM	1	0	22.33	0.1710	15.88	0.0387
Middle		1	0	22.41	0.1742	15.96	0.0394
Highest		1	0	22.50	0.1778	16.05	0.0403
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	25	24.33	0.2710	17.88	0.0614
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	23.50	0.2239	17.05	0.0507
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	25	22.50	0.1778	16.05	0.0403
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -7.1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	24.28	0.2679	15.03	0.0318
Middle		1	0	24.23	0.2649	14.98	0.0315
Highest		1	0	24.19	0.2624	14.94	0.0312
Lowest	16QAM	1	12	23.40	0.2188	14.15	0.0260
Middle		1	12	23.50	0.2239	14.25	0.0266
Highest		1	12	23.42	0.2198	14.17	0.0261
Lowest	64QAM	1	0	22.50	0.1778	13.25	0.0211
Middle		1	0	22.48	0.1770	13.23	0.0210
Highest		1	0	22.50	0.1778	13.25	0.0211
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -7.1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	24.27	0.2673	15.02	0.0318
Middle		1	25	24.29	0.2685	15.04	0.0319
Highest		1	25	24.24	0.2655	14.99	0.0316
Lowest	16QAM	1	0	23.50	0.2239	14.25	0.0266
Middle		1	0	23.49	0.2234	14.24	0.0265
Highest		1	0	23.49	0.2234	14.24	0.0265
Lowest	64QAM	1	25	22.50	0.1778	13.25	0.0211
Middle		1	25	22.50	0.1778	13.25	0.0211
Highest		1	25	22.49	0.1774	13.24	0.0211
Limit	ERP < 3W			Result		PASS	



LTE Band 66 / 1.4MHz (Average) (GT - LC = -2.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	3	23.75	0.2371	21.35	0.1365
Middle		1	3	23.74	0.2366	21.34	0.1361
Highest		1	3	23.47	0.2223	21.07	0.1279
Lowest	16QAM	1	3	22.83	0.1919	20.43	0.1104
Middle		1	3	22.91	0.1954	20.51	0.1125
Highest		1	3	22.75	0.1884	20.35	0.1084
Lowest	64QAM	3	1	21.83	0.1524	19.43	0.0877
Middle		3	1	21.91	0.1552	19.51	0.0893
Highest		3	1	21.72	0.1486	19.32	0.0855
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 3MHz (Average) (GT - LC = -2.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	23.72	0.2355	21.32	0.1355
Middle		1	8	23.59	0.2286	21.19	0.1315
Highest		1	8	23.45	0.2213	21.05	0.1274
Lowest	16QAM	1	8	22.78	0.1897	20.38	0.1091
Middle		1	8	22.91	0.1954	20.51	0.1125
Highest		1	8	22.70	0.1862	20.30	0.1072
Lowest	64QAM	1	8	21.82	0.1521	19.42	0.0875
Middle		1	8	21.90	0.1549	19.50	0.0891
Highest		1	8	21.71	0.1483	19.31	0.0853
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 5MHz (Average) (GT - LC = -2.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	23.68	0.2333	21.28	0.1343
Middle		1	12	23.83	0.2415	21.43	0.1390
Highest		1	12	23.46	0.2218	21.06	0.1276
Lowest	16QAM	1	12	22.77	0.1892	20.37	0.1089
Middle		1	12	22.93	0.1963	20.53	0.1130
Highest		1	12	22.71	0.1866	20.31	0.1074
Lowest	64QAM	1	12	21.81	0.1517	19.41	0.0873
Middle		1	12	21.93	0.1560	19.53	0.0897
Highest		1	12	21.71	0.1483	19.31	0.0853
Limit	EIRP < 1W			Result		PASS	



LTE Band 66 / 10MHz (Average) (GT - LC = -2.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.65	0.2317	21.25	0.1334
Middle		1	0	23.79	0.2393	21.39	0.1377
Highest		1	0	23.54	0.2259	21.14	0.1300
Lowest	16QAM	1	0	22.79	0.1901	20.39	0.1094
Middle		1	0	22.95	0.1972	20.55	0.1135
Highest		1	0	22.61	0.1824	20.21	0.1050
Lowest	64QAM	1	0	21.84	0.1528	19.44	0.0879
Middle		1	0	21.94	0.1563	19.54	0.0899
Highest		1	0	21.62	0.1452	19.22	0.0836
Limit	EIRP < 1W		Result		PASS		

LTE Band 66 / 15MHz (Average) (GT - LC = -2.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.66	0.2323	21.26	0.1337
Middle		1	0	23.83	0.2415	21.43	0.1390
Highest		1	0	23.54	0.2259	21.14	0.1300
Lowest	16QAM	1	0	22.75	0.1884	20.35	0.1084
Middle		1	0	23.00	0.1995	20.60	0.1148
Highest		1	0	22.71	0.1866	20.31	0.1074
Lowest	64QAM	1	0	21.83	0.1524	19.43	0.0877
Middle		1	0	22.01	0.1589	19.61	0.0914
Highest		1	0	21.72	0.1486	19.32	0.0855
Limit	EIRP < 1W		Result		PASS		

LTE Band 66 / 20MHz (Average) (GT - LC = -2.4 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.69	0.2339	21.29	0.1346
Middle		1	0	23.84	0.2421	21.44	0.1393
Highest		1	0	23.63	0.2307	21.23	0.1327
Lowest	16QAM	1	49	22.97	0.1982	20.57	0.1140
Middle		1	49	22.92	0.1959	20.52	0.1127
Highest		1	49	22.63	0.1832	20.23	0.1054
Lowest	64QAM	1	0	21.83	0.1524	19.43	0.0877
Middle		1	0	22.05	0.1603	19.65	0.0923
Highest		1	0	21.89	0.1545	19.49	0.0889
Limit	EIRP < 1W		Result		PASS		





**Radiated Spurious Emission**

**LTE Band 2**

LTE Band 2 / 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	3702	-53.22	-13	-40.22	-70.05	-65.01	0.72	12.52	H
	5556	-51.32	-13	-38.32	-72.78	-63.49	1.00	13.17	H
	7410	-50.28	-13	-37.28	-75.5	-59.66	1.18	10.56	H
									H
									H
									H
									H
	3702	-53.06	-13	-40.06	-71.06	-64.85	0.72	12.52	V
	5556	-51.03	-13	-38.03	-72.61	-63.2	1.00	13.17	V
	7410	-50.28	-13	-37.28	-75.35	-59.66	1.18	10.56	V
									V
									V
									V
									V



Middle	3744	-54.36	-13	-41.36	-71.3	-66.16	0.70	12.50	H
	5616	-51.41	-13	-38.41	-72.81	-63.56	0.98	13.13	H
	7482	-49.97	-13	-36.97	-75.08	-59.22	1.18	10.43	H
									H
									H
									H
									H
	3744	-53.29	-13	-40.29	-71.42	-65.09	0.70	12.50	V
	5616	-50.84	-13	-37.84	-72.41	-62.99	0.98	13.13	V
	7482	-49.70	-13	-36.70	-74.89	-58.95	1.18	10.43	V
									V
									V
									V
									V
Highest	3780	-54.28	-13	-41.28	-71.29	-66.09	0.68	12.49	H
	5676	-51.99	-13	-38.99	-73.41	-64.1	0.99	13.09	H
	7566	-49.19	-13	-36.19	-74.43	-58.59	1.18	10.58	H
									H
									H
									H
									H
	3780	-53.01	-13	-40.01	-71.24	-64.82	0.68	12.49	V
	5676	-51.28	-13	-38.28	-72.88	-63.39	0.99	13.09	V
	7566	-49.72	-13	-36.72	-74.84	-59.12	1.18	10.58	V
									V
									V
									V
									V

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



**LTE Band 25**

LTE Band 25 / 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	3702	-55.01	-13	-42.01	-71.68	-66.8	0.72	12.52	H
	5556	-52.93	-13	-39.93	-73.88	-65.1	1.00	13.17	H
	7404	-50.81	-13	-37.81	-75.46	-60.2	1.18	10.57	H
									H
									H
									H
									H
	3702	-54.91	-13	-41.91	-72.33	-66.7	0.72	12.52	V
	5556	-51.33	-13	-38.33	-72.36	-63.5	1.00	13.17	V
	7404	-50.71	-13	-37.71	-75.37	-60.1	1.18	10.57	V
									V
									V
									V
									V
Middle	3744	-54.40	-13	-41.40	-71.42	-66.2	0.70	12.50	H
	5616	-52.05	-13	-39.05	-73.3	-64.2	0.98	13.13	H
	7482	-49.95	-13	-36.95	-75.03	-59.2	1.18	10.43	H
									H
									H
									H
									H
	3744	-53.80	-13	-40.80	-71.97	-65.6	0.70	12.50	V
	5616	-51.35	-13	-38.35	-72.87	-63.5	0.98	13.13	V
	7482	-50.45	-13	-37.45	-74.9	-59.7	1.18	10.43	V
									V
									V
									V
									V



LTE Band 25 / 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)
Highest	3792	-54.69	-13	-41.69	-71.77	-66.5	0.67	12.48	H
	5688	-51.70	-13	-38.70	-72.87	-63.8	0.99	13.09	H
	7584	-49.65	-13	-36.65	-74.32	-59.1	1.18	10.64	H
									H
									H
									H
									H
	3792	-53.09	-13	-40.09	-71.19	-64.9	0.67	12.48	V
	5688	-51.40	-13	-38.40	-72.61	-63.5	0.99	13.09	V
	7584	-49.95	-13	-36.95	-74.88	-59.4	1.18	10.64	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	-46.38	-13	-33.38	-63.45	-57.97	0.77	12.36	H	
	5136	-51.51	-13	-38.51	-71.75	-63.01	0.97	12.47	H	
	6840	-51.53	-13	-38.53	-75.11	-62.38	0.81	11.65	H	
										H
										H
										H
										H
	3420	-44.27	-13	-31.27	-61.15	-55.86	0.77	12.36	V	
	5136	-50.37	-13	-37.37	-70.78	-61.87	0.97	12.47	V	
	6840	-50.70	-13	-37.70	-74.75	-61.55	0.81	11.65	V	
										V
										V
										V
										V
Middle	3450	-48.77	-13	-35.77	-65.85	-60.44	0.78	12.45	H	
	5172	-46.72	-13	-33.72	-67.04	-58.28	0.98	12.54	H	
	6900	-50.63	-13	-37.63	-74.31	-61.21	0.94	11.52	H	
										H
										H
										H
										H
	3450	-44.58	-13	-31.58	-61.75	-56.25	0.78	12.45	V	
	5172	-49.93	-13	-36.93	-70.41	-61.49	0.98	12.54	V	
	6900	-50.68	-13	-37.68	-74.77	-61.26	0.94	11.52	V	
										V
										V
										V
										V



Highest	3474	-48.75	-13	-35.75	-65.87	-60.49	0.78	12.52	H
	5211	-53.13	-13	-40.13	-73.51	-64.76	0.99	12.62	H
	6948	-50.07	-13	-37.07	-73.87	-60.44	1.05	11.41	H
									H
									H
									H
									H
	3474	-52.69	-13	-39.69	-70.48	-64.43	0.78	12.52	V
	5211	-53.40	-13	-40.40	-73.94	-65.03	0.99	12.62	V
	6948	-49.66	-13	-36.66	-73.82	-60.03	1.05	11.41	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 / 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	1648	-53.85	-13	-40.85	-64.69	-60.8	0.53	9.63	H
	2472	-51.02	-13	-38.02	-64.57	-59	0.65	10.78	H
	3296	-56.82	-13	-43.82	-72.2	-65.9	0.76	11.99	H
									H
									H
									H
									H
	1648	-55.95	-13	-42.95	-66.48	-62.9	0.53	9.63	V
	2472	-49.92	-13	-36.92	-64.16	-57.9	0.65	10.78	V
	3296	-56.42	-13	-43.42	-72.26	-65.5	0.76	11.99	V
									V
									V
									V
									V
Middle	1664	-55.52	-13	-42.52	-66.51	-62.5	0.53	9.66	H
	2496	-45.61	-13	-32.61	-59.26	-53.6	0.65	10.80	H
	3328	-56.43	-13	-43.43	-72.39	-65.6	0.76	12.08	H
									H
									H
									H
									H
	1664	-54.71	-13	-41.71	-65.22	-61.69	0.53	9.66	V
	2496	-46.61	-13	-33.61	-60.72	-54.6	0.65	10.80	V
	3328	-56.93	-13	-43.93	-72.47	-66.1	0.76	12.08	V
									V
									V
									V
									V



Highest	1680	-58.18	-13	-45.18	-69.09	-65.2	0.53	9.70	H
	2520	-53.30	-13	-40.30	-66.57	-61.3	0.66	10.81	H
	3360	-56.34	-13	-43.34	-72.24	-65.6	0.77	12.18	H
									H
									H
									H
									H
	1680	-59.18	-13	-46.18	-69.51	-66.2	0.53	9.70	V
	2520	-52.70	-13	-39.70	-66.57	-60.7	0.66	10.81	V
	3360	-57.04	-13	-44.04	-72.35	-66.3	0.77	12.18	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 / 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	5040	-50.82	-25	-25.82	-70.89	-62.15	0.95	12.28	H
	7560	-44.95	-25	-19.95	-70.19	-54.34	1.18	10.57	H
	10080	-42.74	-25	-17.74	-73.18	-53.31	1.37	11.95	H
									H
									H
									H
									H
	5040	-51.50	-25	-26.50	-71.75	-62.83	0.95	12.28	V
	7560	-45.17	-25	-20.17	-70.29	-54.56	1.18	10.57	V
	10080	-43.77	-25	-18.77	-73.91	-54.34	1.37	11.95	V
									V
									V
									V
									V
Middle	5088	-50.27	-25	-25.27	-70.42	-61.69	0.96	12.38	H
	7632	-44.44	-25	-19.44	-69.85	-54.03	1.18	10.77	H
	10176	-43.54	-25	-18.54	-74.05	-53.92	1.38	11.77	H
									H
									H
									H
									H
	5088	-49.21	-25	-24.21	-69.53	-60.63	0.96	12.38	V
	7632	-44.70	-25	-19.70	-69.86	-54.29	1.18	10.77	V
	10176	-43.79	-25	-18.79	-74.05	-54.17	1.38	11.77	V
									V
									V
									V
									V



Highest	5136	-49.71	-25	-24.71	-69.95	-61.21	0.97	12.47	H
	7704	-43.11	-25	-18.11	-68.64	-52.89	1.19	10.97	H
	10272	-39.84	-25	-14.84	-70.43	-50.03	1.39	11.58	H
									H
									H
									H
									H
	5136	-49.65	-25	-24.65	-70.06	-61.15	0.97	12.47	V
	7704	-43.42	-25	-18.42	-68.82	-53.2	1.19	10.97	V
	10272	-43.74	-25	-18.74	-74.11	-53.93	1.39	11.58	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	-51.45	-13	-38.45	-63.19	-57.50	0.50	8.70	H	
	2096	-35.56	-13	-22.56	-49.39	-43.30	0.59	10.48	H	
	2800	-57.97	-13	-44.97	-71.97	-66.10	0.70	10.98	H	
	3496	-50.74	-13	-37.74	-67.07	-60.40	0.78	12.59	H	
										H
										H
										H
	1400	-53.95	-13	-40.95	-66.26	-60.00	0.50	8.70	V	
	2096	-37.76	-13	-24.76	-51.98	-45.50	0.59	10.48	V	
	2800	-57.67	-13	-44.67	-72.07	-65.80	0.70	10.98	V	
	3496	-50.14	-13	-37.14	-67.19	-59.80	0.78	12.59	V	
										V
										V
										V
Middle	1408	-51.50	-13	-38.50	-63.35	-57.60	0.50	8.75	H	
	2112	-33.75	-13	-20.75	-47.77	-41.50	0.59	10.49	H	
	2816	-57.77	-13	-44.77	-71.98	-65.90	0.71	10.99	H	
	3512	-49.54	-13	-36.54	-65.43	-59.20	0.78	12.60	H	
										H
										H
										H
	1408	-56.60	-13	-43.60	-68.19	-62.70	0.50	8.75	V	
	2112	-37.45	-13	-24.45	-51.44	-45.20	0.59	10.49	V	
	2816	-57.97	-13	-44.97	-72.25	-66.10	0.71	10.99	V	
	3512	-49.84	-13	-36.84	-67.01	-59.50	0.78	12.60	V	
										V
										V
										V



Highest	1416	-56.46	-13	-43.46	-68.27	-62.60	0.50	8.80	H
	2120	-36.85	-13	-23.85	-51.13	-44.60	0.59	10.50	H
	2824	-57.16	-13	-44.16	-71.86	-65.30	0.71	10.99	H
	3536	-54.55	-13	-41.55	-70.79	-64.20	0.78	12.59	H
									H
									H
									H
	1416	-55.66	-13	-42.66	-67.38	-61.80	0.50	8.80	V
	2120	-42.15	-13	-29.15	-56.31	-49.90	0.59	10.50	V
	2824	-57.26	-13	-44.26	-71.97	-65.40	0.71	10.99	V
	3536	-49.45	-13	-36.45	-67.09	-59.10	0.78	12.59	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	-57.92	-42.15	-15.77	-69.32	-64.69	0.51	9.43	H
	2344	-52.88	-13	-39.88	-67.44	-60.78	0.62	10.68	H
	3120	-56.59	-13	-43.59	-72.06	-65.16	0.74	11.46	H
									H
									H
									H
									H
	1560	-57.27	-42.15	-15.12	-68.10	-64.04	0.51	9.43	V
	2344	-53.94	-13	-40.94	-69.08	-61.84	0.62	10.68	V
	3120	-56.31	-13	-43.31	-72.01	-64.88	0.74	11.46	V
									V
									V
									V
									V
Middle	1568	-48.24	-42.15	-6.09	-59.15	-55.02	0.52	9.45	H
	2352	-35.17	-13	-22.17	-49.72	-43.08	0.63	10.68	H
	3136	-56.88	-13	-43.88	-72.44	-65.49	0.74	11.51	H
	3920	-54.59	-13	-41.59	-71.45	-64.07	0.80	12.43	H
									H
									H
									H
	1568	-56.89	-42.15	-14.74	-67.54	-63.67	0.52	9.45	V
	2352	-43.46	-13	-30.46	-58.59	-51.37	0.63	10.68	V
	3136	-56.51	-13	-43.51	-72.35	-65.12	0.74	11.51	V
	3920	-50.83	-13	-37.83	-68.82	-60.31	0.80	12.43	V
									V
									V
									V



Highest	1576	-52.03	-42.15	-9.88	-62.95	-58.83	0.52	9.47	H
	2360	-36.39	-13	-23.39	-50.81	-44.30	0.63	10.69	H
	3152	-56.45	-13	-43.45	-72.09	-65.11	0.74	11.56	H
	3936	-53.60	-13	-40.60	-70.52	-63.05	0.82	12.43	H
									H
									H
									H
	1576	-60.76	-42.15	-18.61	-71.42	-67.56	0.52	9.47	V
	2360	-53.01	-13	-40.01	-68.06	-60.92	0.63	10.69	V
	3152	-56.40	-13	-43.40	-72.37	-65.06	0.74	11.56	V
	3936	-54.01	-13	-41.01	-72.05	-63.46	0.82	12.43	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	1568	-53.53	-42.15	-11.38	-64.44	-60.31	0.52	9.45	H
	2344	-40.53	-13	-27.53	-55.09	-48.43	0.62	10.68	H
	3136	-56.57	-13	-43.57	-72.13	-65.18	0.74	11.51	H
	3912	-55.12	-13	-42.12	-71.98	-64.61	0.79	12.44	H
									H
									H
									H
	1568	-58.58	-42.15	-16.43	-69.23	-65.36	0.52	9.45	V
	2344	-43.62	-13	-30.62	-58.76	-51.52	0.62	10.68	V
	3136	-56.59	-13	-43.59	-72.43	-65.2	0.74	11.51	V
	3912	-51.18	-13	-38.18	-69.17	-60.67	0.79	12.44	V
									V
									V
									V

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



**LTE Band 17**

LTE Band 17 / 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	1416	-57.76	-13	-44.76	-70.13	-63.90	0.50	8.80	H
	2128	-45.71	-13	-32.71	-60.51	-53.47	0.59	10.50	H
	2840	-57.22	-13	-44.22	-71.76	-65.36	0.71	11.00	H
									H
									H
									H
									H
	1416	-57.81	-13	-44.81	-69.98	-63.95	0.50	8.80	V
	2128	-41.23	-13	-28.23	-55.92	-48.99	0.59	10.50	V
	2840	-57.24	-13	-44.24	-72.10	-65.38	0.71	11.00	V
									V
									V
									V
									V
Middle	1424	-51.64	-13	-38.64	-64.12	-57.83	0.50	8.84	H
	2128	-34.84	-13	-21.84	-49.64	-42.60	0.59	10.50	H
	2824	-57.26	-13	-44.26	-71.76	-65.40	0.71	10.99	H
	3552	-47.92	-13	-34.92	-64.20	-57.57	0.78	12.58	H
									H
									H
									H
	1424	-56.58	-13	-43.58	-68.60	-62.77	0.50	8.84	V
	2128	-36.72	-13	-23.72	-51.41	-44.48	0.59	10.50	V
	2824	-57.00	-13	-44.00	-71.88	-65.14	0.71	10.99	V
	3552	-48.64	-13	-35.64	-65.96	-58.29	0.78	12.58	V
									V
									V
									V
								V	





Highest	1424	-57.76	-13	-44.76	-70.24	-63.95	0.50	8.84	H
	2136	-33.42	-13	-20.42	-48.21	-41.19	0.59	10.51	H
	2848	-56.85	-13	-43.85	-71.44	-65.00	0.71	11.01	H
	3560	-49.72	-13	-36.72	-66.00	-59.36	0.78	12.58	H
									H
									H
									H
	1424	-58.51	-13	-45.51	-70.53	-64.70	0.50	8.84	V
	2136	-37.76	-13	-24.76	-52.44	-45.53	0.59	10.51	V
	2848	-57.08	-13	-44.08	-71.95	-65.23	0.71	11.01	V
	3560	-49.07	-13	-36.07	-66.39	-58.71	0.78	12.58	V
									V
									V
									V

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



**LTE Band 66**

LTE Band 66 / 20MHz / 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	3420	-47.87	-13	-34.87	-64.94	-59.46	0.77	12.36	H
	5136	-42.15	-13	-29.15	-62.39	-53.65	0.97	12.47	H
	6846	-51.34	-13	-38.34	-74.92	-62.16	0.82	11.64	H
									H
									H
									H
									H
	3420	-46.68	-13	-33.68	-63.56	-58.27	0.77	12.36	V
	5136	-46.99	-13	-33.99	-67.4	-58.49	0.97	12.47	V
	6846	-50.93	-13	-37.93	-74.98	-61.75	0.82	11.64	V
									V
									V
									V
									V
Middle	3474	-45.27	-13	-32.27	-62.39	-57.01	0.78	12.52	H
	5208	-41.45	-13	-28.45	-61.83	-53.07	0.99	12.62	H
	6942	-50.71	-13	-37.71	-74.51	-61.10	1.03	11.43	H
									H
									H
									H
									H
	3474	-42.46	-13	-29.46	-60.25	-54.20	0.78	12.52	V
	5208	-44.64	-13	-31.64	-65.18	-56.26	0.99	12.62	V
	6942	-50.34	-13	-37.34	-74.5	-60.73	1.03	11.43	V
									V
									V
									V
									V



Highest	3522	-46.57	-13	-33.57	-63.61	-58.38	0.78	12.59	H
	5286	-38.46	-13	-25.46	-59.05	-50.21	1.02	12.77	H
	7050	-49.89	-13	-36.89	-74.07	-59.93	1.17	11.21	H
									H
									H
									H
									H
	3522	-41.66	-13	-28.66	-59.69	-53.47	0.78	12.59	V
	5286	-38.76	-13	-25.76	-59.49	-50.51	1.02	12.77	V
	7050	-50.23	-13	-37.23	-74.7	-60.27	1.17	11.21	V
									V
									V
									V
									V

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