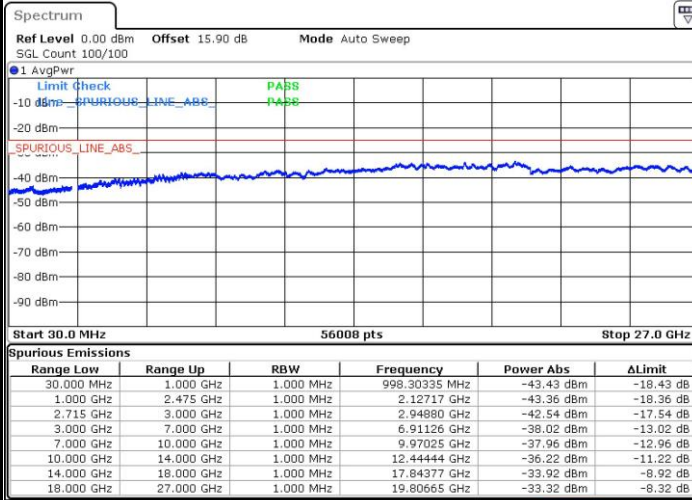




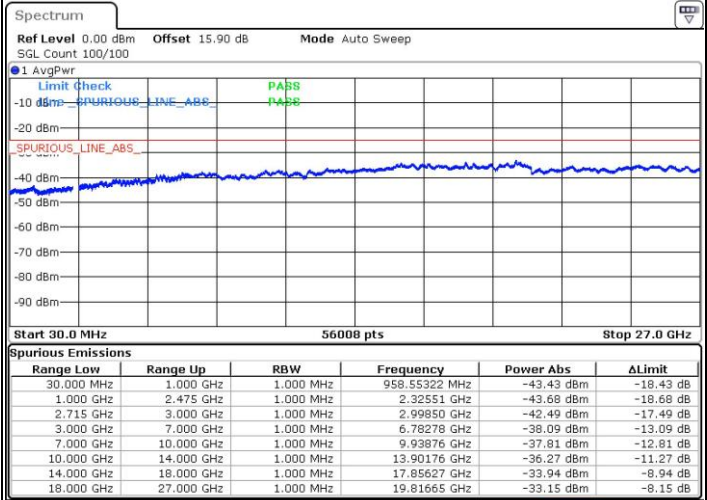
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 22 FEB 2019 15:31:34

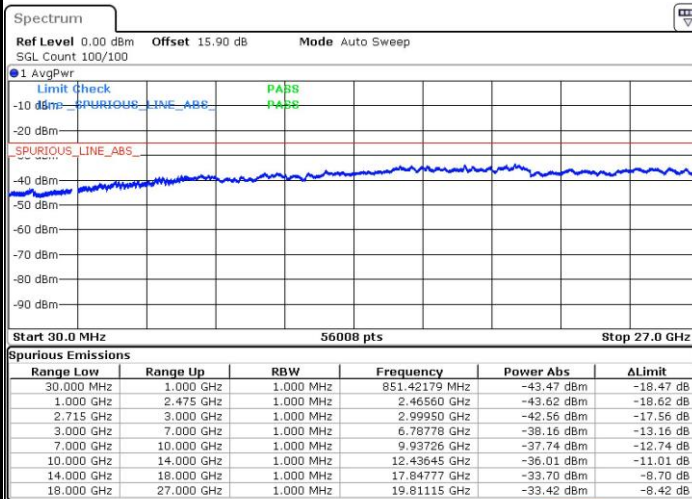
Highest Channel / 16QAM



Date: 22 FEB 2019 15:32:24

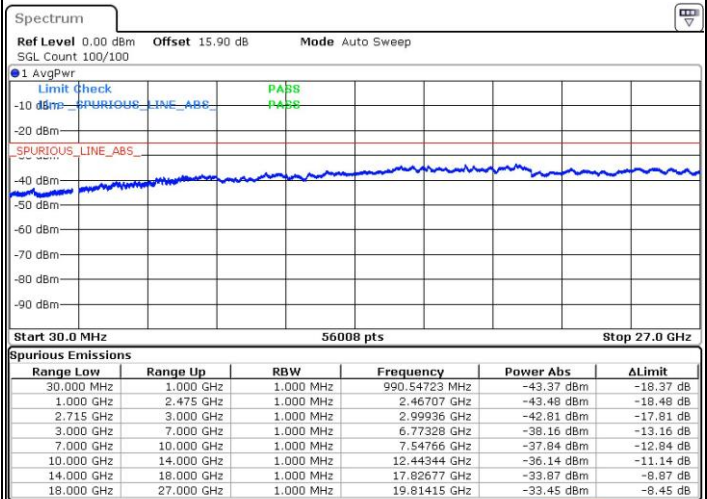
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 22 FEB 2019 15:33:14

Lowest Channel / 16QAM

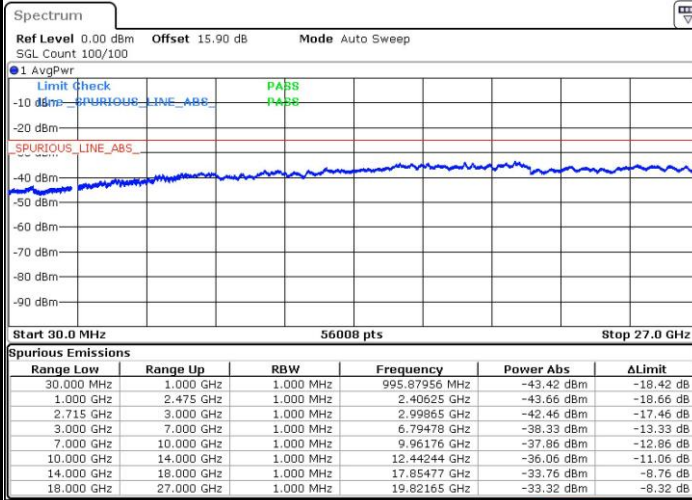


Date: 22 FEB 2019 15:34:05



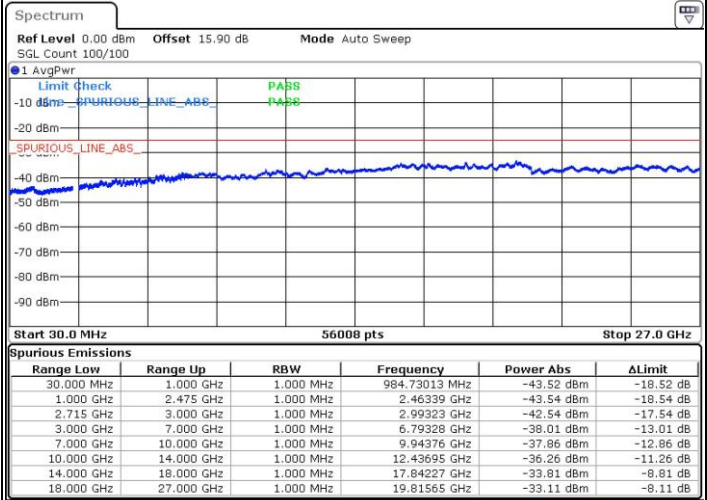
LTE Band 41 / 20MHz

Middle Channel / QPSK



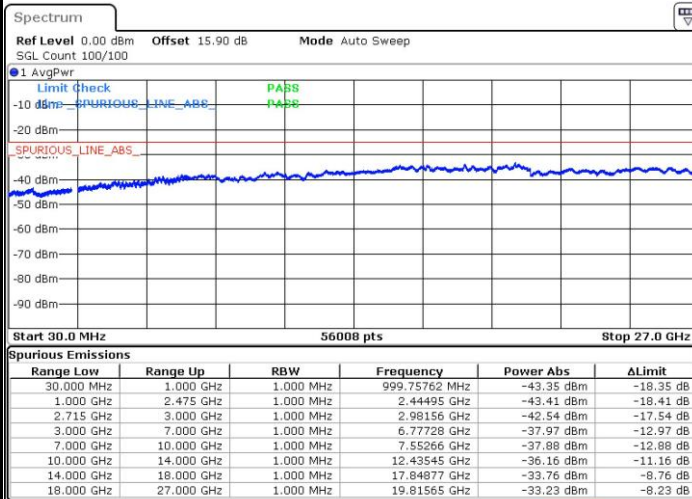
Date: 22 FEB 2019 15:34:55

Middle Channel / 16QAM



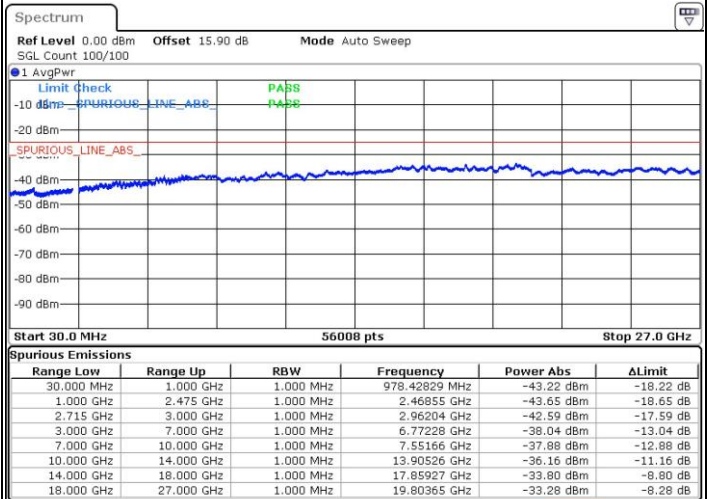
Date: 22 FEB 2019 15:35:46

Highest Channel / QPSK



Date: 22 FEB 2019 15:36:36

Highest Channel / 16QAM

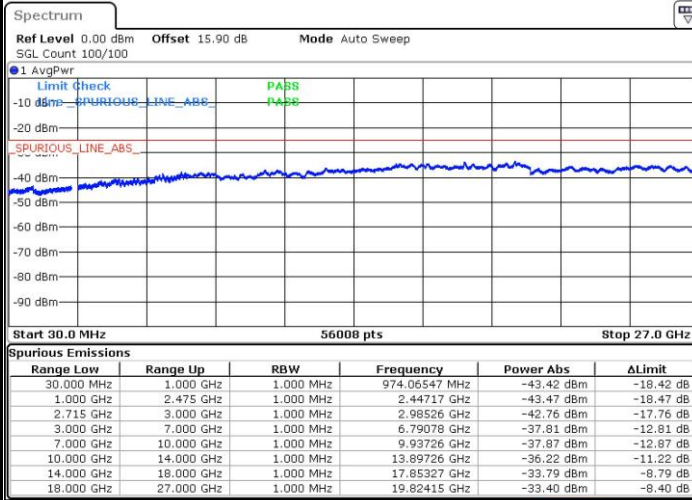


Date: 22 FEB 2019 15:37:27



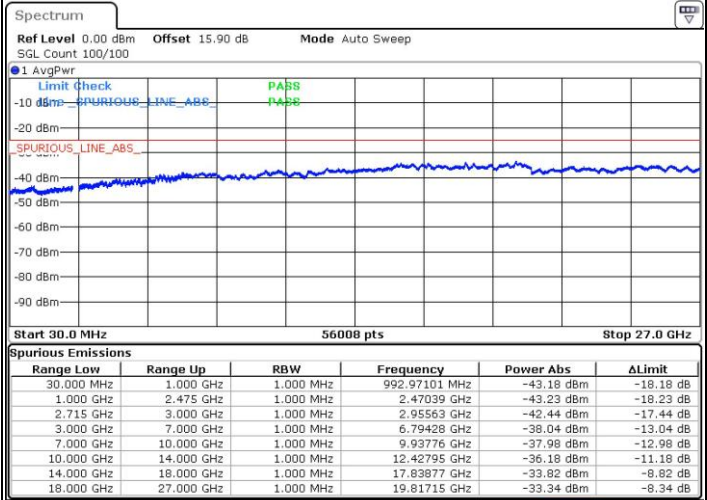
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



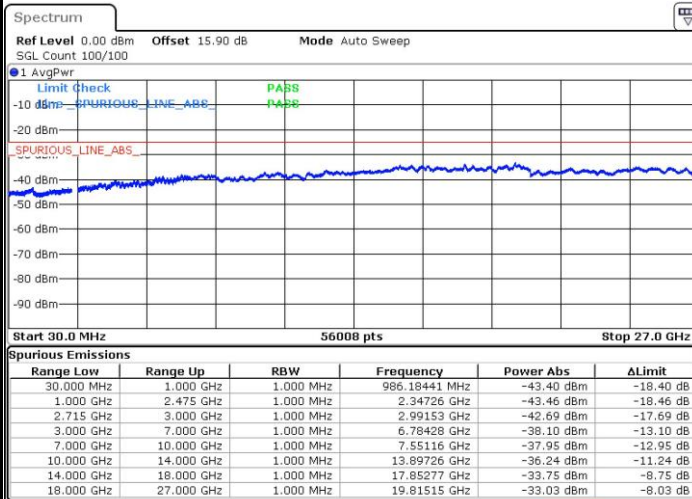
Date: 22 FEB 2019 15:08:02

Middle Channel / 64QAM



Date: 22 FEB 2019 15:08:53

Highest Channel / 64QAM

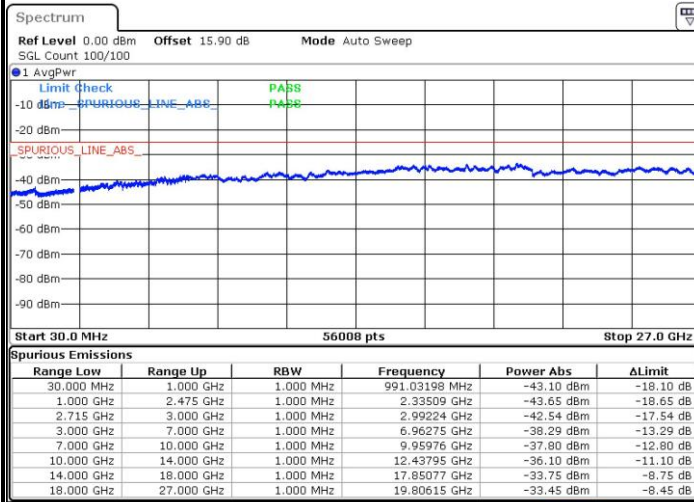


Date: 22 FEB 2019 15:09:43



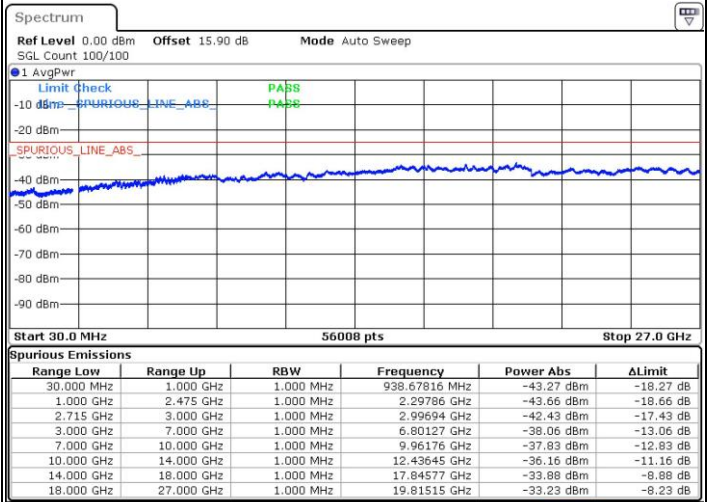
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



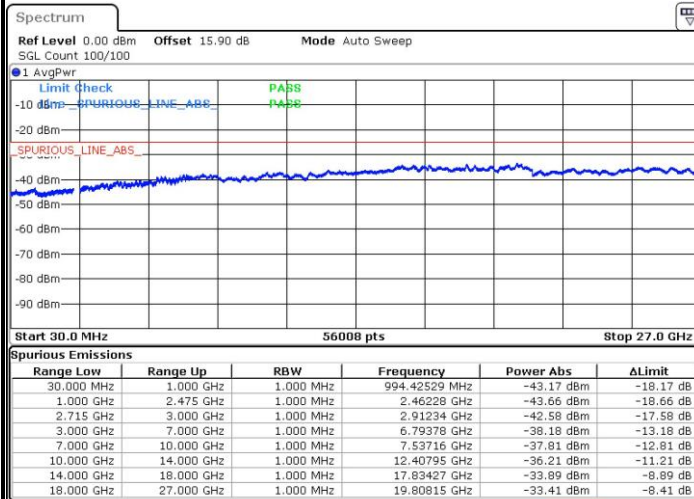
Date: 22 FEB 2019 15:10:33

Middle Channel / 64QAM



Date: 22 FEB 2019 15:11:24

Highest Channel / 64QAM

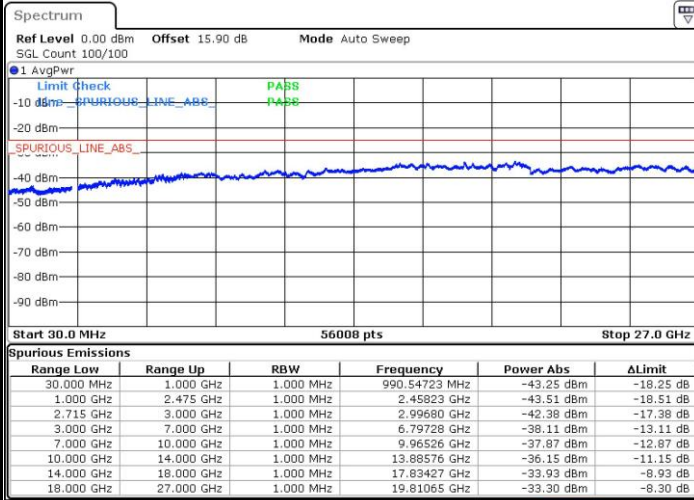


Date: 22 FEB 2019 15:12:14



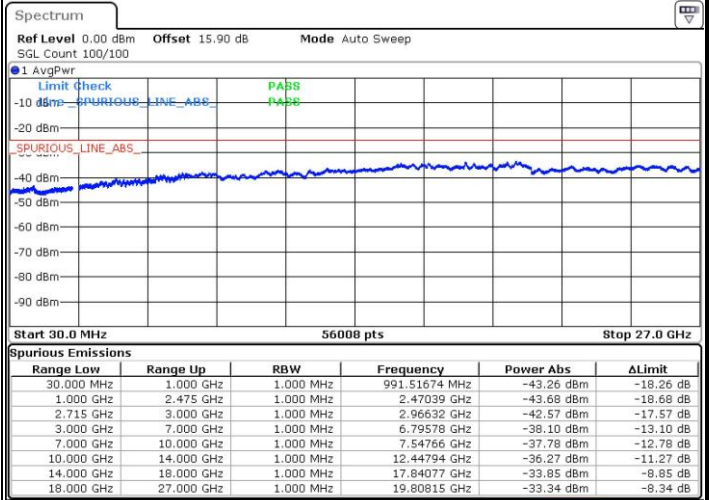
LTE Band 41 / 15MHz

Lowest Channel / 64QAM



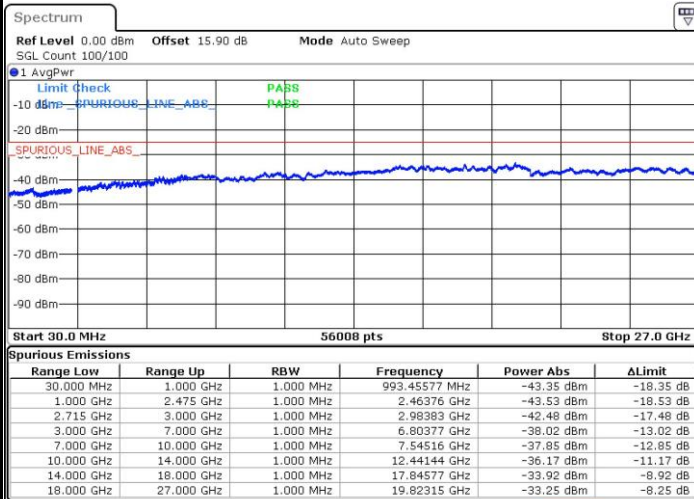
Date: 22 FEB 2019 15:13:05

Middle Channel / 64QAM



Date: 22 FEB 2019 15:13:55

Highest Channel / 64QAM

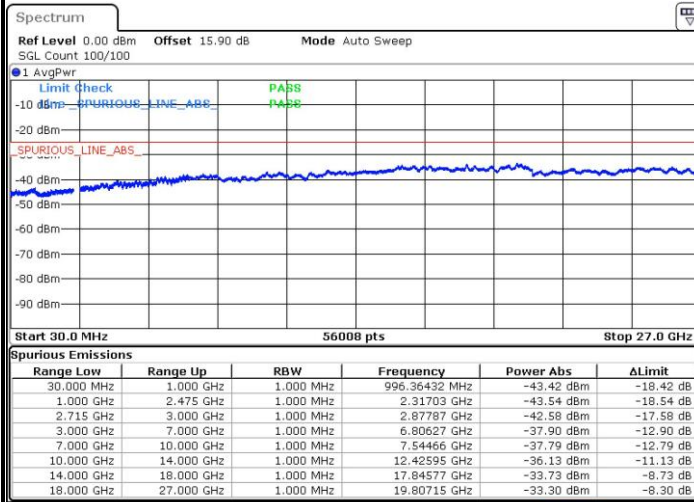


Date: 22 FEB 2019 15:14:46



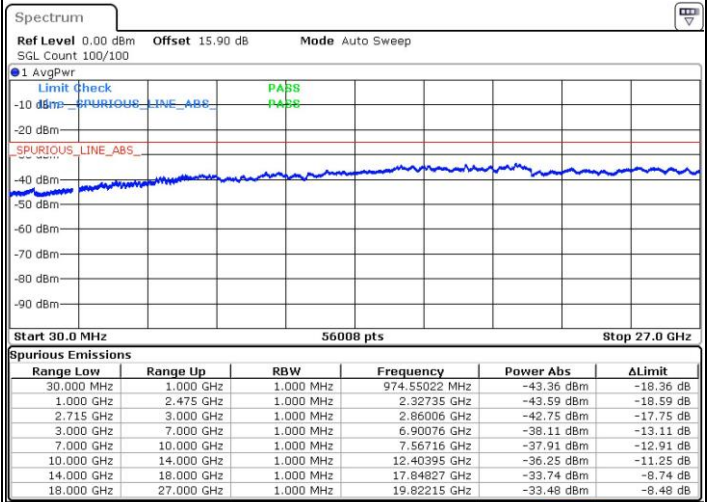
LTE Band 41 / 20MHz

Lowest Channel / 64QAM



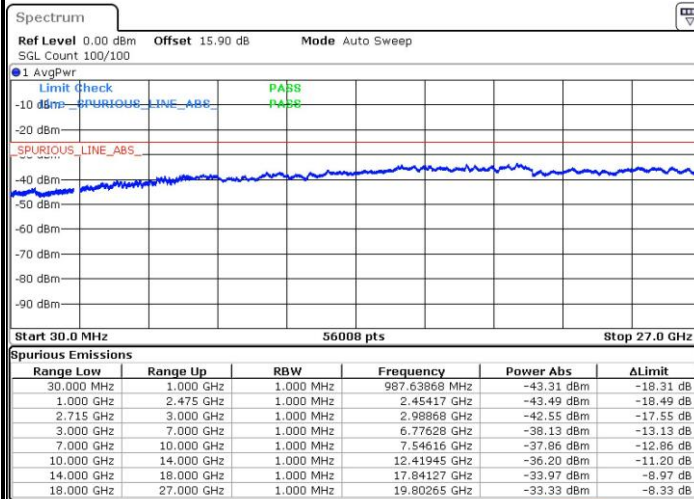
Date: 22 FEB 2019 15:15:36

Middle Channel / 64QAM



Date: 22 FEB 2019 15:16:26

Highest Channel / 64QAM



Date: 22 FEB 2019 15:17:17

Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 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 4 / 1.4MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	3	18.50	0.0708	18.60	0.0724
Middle		1	3	18.56	0.0718	18.66	0.0735
Highest		1	3	18.56	0.0718	18.66	0.0735
Lowest	16QAM	1	3	18.27	0.0671	18.37	0.0687
Middle		1	3	18.33	0.0681	18.43	0.0697
Highest		1	3	18.36	0.0685	18.46	0.0701
Lowest	64QAM	1	3	18.24	0.0667	18.34	0.0682
Middle		1	3	18.25	0.0668	18.35	0.0684
Highest		1	3	18.25	0.0668	18.35	0.0684
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	18.63	0.0729	18.73	0.0746
Middle		1	8	18.71	0.0743	18.81	0.0760
Highest		1	8	18.71	0.0743	18.81	0.0760
Lowest	16QAM	1	8	18.37	0.0687	18.47	0.0703
Middle		1	8	18.41	0.0693	18.51	0.0710
Highest		1	8	18.48	0.0705	18.58	0.0721
Lowest	64QAM	1	8	18.34	0.0682	18.44	0.0698
Middle		1	8	18.39	0.0690	18.49	0.0706
Highest		1	8	18.45	0.0700	18.55	0.0716
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	13	18.65	0.0733	18.75	0.0750
Middle		12	13	18.69	0.0740	18.79	0.0757
Highest		12	13	18.72	0.0745	18.82	0.0762
Lowest	16QAM	1	12	18.32	0.0679	18.42	0.0695
Middle		1	12	18.39	0.0690	18.49	0.0706
Highest		1	12	18.43	0.0697	18.53	0.0713
Lowest	64QAM	1	12	18.27	0.0671	18.37	0.0687
Middle		1	12	18.31	0.0678	18.41	0.0693
Highest		1	12	18.42	0.0695	18.52	0.0711
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	25	12	18.67	0.0736	18.77	0.0753
Middle		25	12	18.70	0.0741	18.80	0.0759
Highest		25	12	18.73	0.0746	18.83	0.0764
Lowest	16QAM	1	0	18.29	0.0675	18.39	0.0690
Middle		1	0	18.37	0.0687	18.47	0.0703
Highest		1	0	18.43	0.0697	18.53	0.0713
Lowest	64QAM	1	25	18.26	0.0670	18.36	0.0685
Middle		1	25	18.31	0.0678	18.41	0.0693
Highest		1	25	18.39	0.0690	18.49	0.0706
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	20	18.80	0.0759	18.90	0.0776
Middle		36	20	18.85	0.0767	18.95	0.0785
Highest		36	20	18.85	0.0767	18.95	0.0785
Lowest	16QAM	1	0	18.38	0.0689	18.48	0.0705
Middle		1	0	18.38	0.0689	18.48	0.0705
Highest		1	0	18.55	0.0716	18.65	0.0733
Lowest	64QAM	1	0	18.36	0.0685	18.46	0.0701
Middle		1	0	18.37	0.0687	18.47	0.0703
Highest		1	0	18.58	0.0721	18.68	0.0738
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = 0.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	18.78	0.0755	18.88	0.0773
Middle		50	0	18.86	0.0769	18.96	0.0787
Highest		50	0	18.84	0.0766	18.94	0.0783
Lowest	16QAM	1	0	18.36	0.0685	18.46	0.0701
Middle		1	0	18.36	0.0685	18.46	0.0701
Highest		1	0	18.53	0.0713	18.63	0.0729
Lowest	64QAM	1	0	18.35	0.0684	18.45	0.0700
Middle		1	0	18.36	0.0685	18.46	0.0701
Highest		1	0	18.46	0.0701	18.56	0.0718
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -2.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	23.76	0.2377	18.71	0.0743
Middle		1	3	23.83	0.2415	18.78	0.0755
Highest		1	3	23.85	0.2427	18.80	0.0759
Lowest	16QAM	1	3	22.53	0.1791	17.48	0.0560
Middle		1	3	22.59	0.1816	17.54	0.0568
Highest		1	3	22.59	0.1816	17.54	0.0568
Lowest	64QAM	1	3	21.47	0.1403	16.42	0.0439
Middle		1	3	21.57	0.1435	16.52	0.0449
Highest		1	3	21.58	0.1439	16.53	0.0450
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -2.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.83	0.2415	18.78	0.0755
Middle		1	8	23.86	0.2432	18.81	0.0760
Highest		1	8	23.87	0.2438	18.82	0.0762
Lowest	16QAM	1	8	22.59	0.1816	17.54	0.0568
Middle		1	8	22.67	0.1849	17.62	0.0578
Highest		1	8	22.69	0.1858	17.64	0.0581
Lowest	64QAM	1	8	21.59	0.1442	16.54	0.0451
Middle		1	8	21.64	0.1459	16.59	0.0456
Highest		1	8	21.74	0.1493	16.69	0.0467
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -2.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.78	0.2388	18.73	0.0746
Middle		1	12	23.77	0.2382	18.72	0.0745
Highest		1	12	23.83	0.2415	18.78	0.0755
Lowest	16QAM	1	12	22.53	0.1791	17.48	0.0560
Middle		1	12	22.58	0.1811	17.53	0.0566
Highest		1	12	22.66	0.1845	17.61	0.0577
Lowest	64QAM	1	12	21.50	0.1413	16.45	0.0442
Middle		1	12	21.54	0.1426	16.49	0.0446
Highest		1	12	21.59	0.1442	16.54	0.0451
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -2.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.81	0.2404	18.76	0.0752
Middle		1	0	23.78	0.2388	18.73	0.0746
Highest		1	0	23.88	0.2443	18.83	0.0764
Lowest	16QAM	1	0	22.54	0.1795	17.49	0.0561
Middle		1	0	22.50	0.1778	17.45	0.0556
Highest		1	0	22.69	0.1858	17.64	0.0581
Lowest	64QAM	1	0	21.51	0.1416	16.46	0.0443
Middle		1	0	21.52	0.1419	16.47	0.0444
Highest		1	0	21.68	0.1472	16.63	0.0460
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = -1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	7	21.22	0.1324	20.12	0.1028
Middle		12	7	21.17	0.1309	20.07	0.1016
Highest		12	7	21.18	0.1312	20.08	0.1019
Lowest	16QAM	1	12	20.79	0.1199	19.69	0.0931
Middle		1	12	20.76	0.1191	19.66	0.0925
Highest		1	12	20.85	0.1216	19.75	0.0944
Lowest	64QAM	1	24	20.70	0.1175	19.60	0.0912
Middle		1	24	20.72	0.1180	19.62	0.0916
Highest		1	24	20.83	0.1211	19.73	0.0940
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = -1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	21.15	0.1303	20.05	0.1012
Middle		50	0	21.11	0.1291	20.01	0.1002
Highest		50	0	21.10	0.1288	20.00	0.1000
Lowest	16QAM	1	49	20.69	0.1172	19.59	0.0910
Middle		1	49	20.68	0.1169	19.58	0.0908
Highest		1	49	20.74	0.1186	19.64	0.0920
Lowest	64QAM	1	49	20.70	0.1175	19.60	0.0912
Middle		1	49	20.69	0.1172	19.59	0.0910
Highest		1	49	20.76	0.1191	19.66	0.0925
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = -1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	20	21.34	0.1361	20.24	0.1057
Middle		36	20	21.27	0.1340	20.17	0.1040
Highest		36	20	21.28	0.1343	20.18	0.1042
Lowest	16QAM	1	74	20.85	0.1216	19.75	0.0944
Middle		1	74	20.90	0.1230	19.80	0.0955
Highest		1	74	21.00	0.1259	19.90	0.0977
Lowest	64QAM	1	74	20.83	0.1211	19.73	0.0940
Middle		1	74	20.84	0.1213	19.74	0.0942
Highest		1	74	20.89	0.1227	19.79	0.0953
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 20MHz (Average) (GT - LC = -1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	50	21.41	0.1384	20.31	0.1074
Middle		50	50	21.32	0.1355	20.22	0.1052
Highest		50	50	21.31	0.1352	20.21	0.1050
Lowest	16QAM	1	99	20.94	0.1242	19.84	0.0964
Middle		1	99	20.96	0.1247	19.86	0.0968
Highest		1	99	20.98	0.1253	19.88	0.0973
Lowest	64QAM	50	50	20.86	0.1219	19.76	0.0946
Middle		50	50	20.76	0.1191	19.66	0.0925
Highest		50	50	20.73	0.1183	19.63	0.0918
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	23.84	0.2421	19.09	0.0811
Middle		1	3	23.88	0.2443	19.13	0.0818
Highest		1	3	23.86	0.2432	19.11	0.0815
Lowest	16QAM	1	3	22.57	0.1807	17.82	0.0605
Middle		1	3	22.65	0.1841	17.90	0.0617
Highest		1	3	22.58	0.1811	17.83	0.0607
Lowest	64QAM	1	3	21.59	0.1442	16.84	0.0483
Middle		1	3	21.67	0.1469	16.92	0.0492
Highest		1	3	21.59	0.1442	16.84	0.0483
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.89	0.2449	19.14	0.0820
Middle		1	8	23.90	0.2455	19.15	0.0822
Highest		1	8	23.93	0.2472	19.18	0.0828
Lowest	16QAM	1	8	22.63	0.1832	17.88	0.0614
Middle		1	8	22.76	0.1888	18.01	0.0632
Highest		1	8	22.69	0.1858	17.94	0.0622
Lowest	64QAM	1	8	21.63	0.1455	16.88	0.0488
Middle		1	8	21.73	0.1489	16.98	0.0499
Highest		1	8	21.67	0.1469	16.92	0.0492
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.82	0.2410	19.07	0.0807
Middle		1	12	23.88	0.2443	19.13	0.0818
Highest		1	12	23.86	0.2432	19.11	0.0815
Lowest	16QAM	1	12	22.63	0.1832	17.88	0.0614
Middle		1	12	22.69	0.1858	17.94	0.0622
Highest		1	12	22.68	0.1854	17.93	0.0621
Lowest	64QAM	1	12	21.58	0.1439	16.83	0.0482
Middle		1	12	21.66	0.1466	16.91	0.0491
Highest		1	12	21.68	0.1472	16.93	0.0493
Limit	ERP < 3W			Result		PASS	



LTE Band 12 / 10MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	23.81	0.2404	19.06	0.0805
Middle		1	49	23.93	0.2472	19.18	0.0828
Highest		1	49	23.84	0.2421	19.09	0.0811
Lowest	16QAM	1	49	22.74	0.1879	17.99	0.0630
Middle		1	49	22.66	0.1845	17.91	0.0618
Highest		1	49	22.66	0.1845	17.91	0.0618
Lowest	64QAM	1	49	21.58	0.1439	16.83	0.0482
Middle		1	49	21.63	0.1455	16.88	0.0488
Highest		1	49	21.64	0.1459	16.89	0.0489
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -3.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.88	0.2443	18.53	0.0713
Middle		1	12	23.91	0.2460	18.56	0.0718
Highest		1	12	23.82	0.2410	18.47	0.0703
Lowest	16QAM	1	12	22.58	0.1811	17.23	0.0528
Middle		1	12	22.65	0.1841	17.30	0.0537
Highest		1	12	22.60	0.1820	17.25	0.0531
Lowest	64QAM	1	24	21.62	0.1452	16.27	0.0424
Middle		1	24	21.62	0.1452	16.27	0.0424
Highest		1	24	21.58	0.1439	16.23	0.0420
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -3.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	23.92	0.2466	18.57	0.0719
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	49	22.64	0.1837	17.29	0.0536
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	49	21.58	0.1439	16.23	0.0420
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.83	0.2415	19.08	0.0809
Middle		1	12	23.90	0.2455	19.15	0.0822
Highest		1	12	23.88	0.2443	19.13	0.0818
Lowest	16QAM	1	12	22.64	0.1837	17.89	0.0615
Middle		1	12	22.66	0.1845	17.91	0.0618
Highest		1	12	22.67	0.1849	17.92	0.0619
Lowest	64QAM	1	12	21.60	0.1445	16.85	0.0484
Middle		1	12	21.67	0.1469	16.92	0.0492
Highest		1	12	21.64	0.1459	16.89	0.0489
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	23.87	0.2438	19.12	0.0817
Middle		1	49	23.91	0.2460	19.16	0.0824
Highest		1	49	23.86	0.2432	19.11	0.0815
Lowest	16QAM	1	49	22.63	0.1832	17.88	0.0614
Middle		1	49	22.72	0.1871	17.97	0.0627
Highest		1	49	22.66	0.1845	17.91	0.0618
Lowest	64QAM	1	49	21.61	0.1449	16.86	0.0485
Middle		1	49	21.67	0.1469	16.92	0.0492
Highest		1	49	21.65	0.1462	16.90	0.0490
Limit	ERP < 3W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = -0.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	13	16.98	0.0499	16.68	0.0466
Middle		12	13	17.03	0.0505	16.73	0.0471
Highest		12	13	16.95	0.0495	16.65	0.0462
Lowest	16QAM	12	7	16.57	0.0454	16.27	0.0424
Middle		12	7	16.51	0.0448	16.21	0.0418
Highest		12	7	16.43	0.0440	16.13	0.0410
Lowest	64QAM	12	13	16.54	0.0451	16.24	0.0421
Middle		12	13	16.51	0.0448	16.21	0.0418
Highest		12	13	16.51	0.0448	16.21	0.0418
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average) (GT - LC = -0.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	17.01	0.0502	16.71	0.0469
Middle		50	0	16.97	0.0498	16.67	0.0465
Highest		50	0	16.95	0.0495	16.65	0.0462
Lowest	16QAM	25	25	16.54	0.0451	16.24	0.0421
Middle		25	25	16.51	0.0448	16.21	0.0418
Highest		25	25	16.49	0.0446	16.19	0.0416
Lowest	64QAM	50	0	16.55	0.0452	16.25	0.0422
Middle		50	0	16.44	0.0441	16.14	0.0411
Highest		50	0	16.49	0.0446	16.19	0.0416
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average) (GT - LC = -0.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	20	16.92	0.0492	16.62	0.0459
Middle		36	20	17.03	0.0505	16.73	0.0471
Highest		36	20	16.97	0.0498	16.67	0.0465
Lowest	16QAM	36	20	16.53	0.0450	16.23	0.0420
Middle		36	20	16.47	0.0444	16.17	0.0414
Highest		36	20	16.53	0.0450	16.23	0.0420
Lowest	64QAM	75	0	16.55	0.0452	16.25	0.0422
Middle		75	0	16.48	0.0445	16.18	0.0415
Highest		75	0	16.43	0.0440	16.13	0.0410
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 20MHz (Average) (GT - LC = -0.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	50	17.02	0.0504	16.72	0.0470
Middle		50	50	17.06	0.0508	16.76	0.0474
Highest		50	50	17.02	0.0504	16.72	0.0470
Lowest	16QAM	1	99	16.43	0.0440	16.13	0.0410
Middle		1	99	16.45	0.0442	16.15	0.0412
Highest		1	99	16.59	0.0456	16.29	0.0426
Lowest	64QAM	50	50	16.57	0.0454	16.27	0.0424
Middle		50	50	16.54	0.0451	16.24	0.0421
Highest		50	50	16.55	0.0452	16.25	0.0422
Limit	EIRP < 2W			Result		PASS	

**Radiated Spurious Emission****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	-63.42	-13	-50.42	-72.16	-69.15	0.81	8.69	H
	2472	-51.92	-13	-38.92	-65.5	-59.49	1.04	10.76	H
	3296	-57.62	-13	-44.62	-73.23	-66.22	1.10	11.85	H
	4120	-51.69	-13	-38.69	-69.72	-60.84	1.38	12.68	H
									H
									H
	1648	-63.02	-13	-50.02	-71.61	-68.75	0.81	8.69	V
	2472	-52.41	-13	-39.41	-66.13	-59.98	1.04	10.76	V
	3296	-57.46	-13	-44.46	-73.44	-66.06	1.10	11.85	V
	4120	-54.24	-13	-41.24	-72.98	-63.39	1.38	12.68	V
									V
									V
Middle	1664	-63.46	-13	-50.46	-72.26	-69.25	0.82	8.76	H
	2496	-54.04	-13	-41.04	-67.65	-61.63	1.05	10.79	H
	3328	-60.62	-13	-47.62	-73.23	-69.29	1.10	11.92	H
	4160	-47.62	-13	-34.62	-65.72	-56.78	1.36	12.67	H
									H
									H
	1664	-63.43	-13	-50.43	-72.08	-69.22	0.82	8.76	V
	2496	-52.19	-13	-39.19	-65.89	-59.78	1.05	10.79	V
	3328	-70.29	-13	-57.29	-73.2	-78.96	1.10	11.92	V
	4160	-51.45	-13	-38.45	-70.26	-60.61	1.36	12.67	V
									V
									V



Highest	1680	-62.36	-13	-49.36	-71.22	-68.21	0.82	8.82	H
	2520	-51.39	-13	-38.39	-65.04	-59.01	1.05	10.82	H
	3360	-57.69	-13	-44.69	-72.97	-66.43	1.10	11.99	H
	4200	-53.97	-13	-40.97	-72.14	-63.14	1.34	12.66	H
									H
									H
									H
	1680	-62.74	-13	-49.74	-71.45	-68.59	0.82	8.82	V
	2520	-55.56	-13	-42.56	-69.29	-63.18	1.05	10.82	V
	3360	-57.27	-13	-44.27	-73.1	-66.01	1.10	11.99	V
	4200	-55.35	-13	-42.35	-74.22	-64.52	1.34	12.66	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)	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	3441	-57.38	-13	-44.38	-73.71	-68.45	1.10	12.17	H
	5156	-54.45	-13	-41.45	-75.38	-65.80	1.54	12.89	H
	6878	-51.05	-13	-38.05	-75.35	-60.78	2.19	11.92	H
									H
									H
									H
									H
	3441	-56.73	-13	-43.73	-73.52	-67.80	1.10	12.17	V
	5156	-53.76	-13	-40.76	-75.37	-65.11	1.54	12.89	V
	6878	-51.14	-13	-38.14	-75.74	-60.87	2.19	11.92	V
									V
									V
									V
									V
Middle	3462	-57.28	-13	-44.28	-73.96	-68.40	1.10	12.22	H
	5191	-55.21	-13	-42.21	-76.21	-66.58	1.56	12.93	H
	6924	-51.63	-13	-38.63	-75.92	-61.30	2.21	11.88	H
									H
									H
									H
									H
	3462	-56.78	-13	-43.78	-73.81	-67.90	1.10	12.22	V
	5191	-54.54	-13	-41.54	-76.26	-65.91	1.56	12.93	V
	6924	-51.31	-13	-38.31	-76.11	-60.98	2.21	11.88	V
									V
									V
									V
									V



Highest	3476	-57.04	-13	-44.04	-73.94	-68.19	1.10	12.25	H
	5219	-54.67	-13	-41.67	-75.73	-66.05	1.58	12.96	H
	6955	-50.73	-13	-37.73	-75.05	-60.35	2.22	11.85	H
									H
									H
									H
									H
	3476	-56.48	-13	-43.48	-73.68	-67.63	1.10	12.25	V
	5219	-53.70	-13	-40.70	-75.47	-65.08	1.58	12.96	V
	6955	-50.50	-13	-37.50	-75.43	-60.12	2.22	11.85	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	5020	-53.91	-25	-28.91	-74.59	-65.19	1.44	12.72	H
	7530	-49.27	-25	-24.27	-75.85	-57.89	2.50	11.12	H
	10040	-46.54	-25	-21.54	-77.27	-54.67	3.05	11.18	H
									H
									H
									H
									H
	5020	-54.09	-25	-29.09	-75.3	-65.37	1.44	12.72	V
	7530	-49.53	-25	-24.53	-75.96	-58.15	2.50	11.12	V
	10040	-47.18	-25	-22.18	-77.59	-55.31	3.05	11.18	V
									V
									V
									V
									V
Middle	5052	-53.87	-25	-28.87	-74.61	-65.17	1.47	12.76	H
	7584	-49.94	-25	-24.94	-76.07	-58.55	2.54	11.15	H
	10104	-47.24	-25	-22.24	-78.05	-55.32	3.08	11.16	H
									H
									H
									H
									H
	5052	-53.57	-25	-28.57	-74.87	-64.87	1.47	12.76	V
	7584	-49.77	-25	-24.77	-75.95	-58.38	2.54	11.15	V
	10104	-47.48	-25	-22.48	-77.96	-55.56	3.08	11.16	V
									V
									V
									V
									V
									V



Highest	5120	-54.73	-25	-29.73	-75.61	-66.06	1.51	12.84	H
	7680	-49.45	-25	-24.45	-75.55	-58.04	2.62	11.21	H
	10240	-45.91	-25	-20.91	-76.88	-53.86	3.15	11.10	H
									H
									H
									H
									H
	5120	-54.24	-25	-29.24	-75.74	-65.57	1.51	12.84	V
	7680	-49.57	-25	-24.57	-75.75	-58.16	2.62	11.21	V
	10240	-46.20	-25	-21.20	-76.9	-54.15	3.15	11.10	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 / 3MHz / 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	-61.52	-13.00	-48.52	-71.53	-66.31	0.74	7.68	H
	2101	-60.78	-13.00	-47.78	-73.08	-67.92	0.95	10.24	H
	2802	-57.90	-13.00	-44.90	-72.84	-65.70	1.09	11.04	H
									H
									H
									H
									H
	1400	-61.89	-13.00	-48.89	-71.46	-66.68	0.74	7.68	V
	2101	-60.59	-13.00	-47.59	-72.98	-67.73	0.95	10.24	V
	2802	-57.46	-13.00	-44.46	-72.90	-65.26	1.09	11.04	V
									V
									V
									V
									V
Middle	1415	-61.99	-13.00	-48.99	-71.82	-66.84	0.74	7.74	H
	2122.5	-60.42	-13.00	-47.42	-72.98	-67.59	0.95	10.27	H
	2830	-57.87	-13.00	-44.87	-72.87	-65.69	1.09	11.06	H
	3537.5	-56.49	-13.00	-43.49	-73.34	-65.55	1.12	12.33	H
	4245	-53.13	-13.00	-40.13	-71.49	-62.31	1.32	12.65	H
									H
									H
	1415	-62.29	-13.00	-49.29	-71.79	-67.14	0.74	7.74	V
	2122.5	-60.38	-13.00	-47.38	-73.08	-67.55	0.95	10.27	V
	2830	-57.24	-13.00	-44.24	-72.74	-65.06	1.09	11.06	V
	3537.5	-56.53	-13.00	-43.53	-73.62	-65.59	1.12	12.33	V
	4245	-53.79	-13.00	-40.79	-72.93	-62.97	1.32	12.65	V
									V
									V



Highest	1429	-62.09	-13.00	-49.09	-71.73	-66.99	0.75	7.80	H
	2143.5	-60.48	-13.00	-47.48	-73.30	-67.67	0.96	10.30	H
	2858	-58.21	-13.00	-45.21	-73.28	-66.06	1.09	11.09	H
									H
									H
									H
									H
	1429	-62.21	-13.00	-49.21	-71.63	-67.11	0.75	7.80	V
	2143.5	-60.18	-13.00	-47.18	-73.18	-67.37	0.96	10.30	V
	2858	-57.84	-13.00	-44.84	-73.40	-65.69	1.09	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	1557	-34.49	-13	-21.49	-72.27	-39.88	0.79	8.33	H
	2335	-59.24	-13	-46.24	-72.68	-66.65	1.01	10.57	H
	3113	-57.35	-13	-44.35	-73.14	-65.54	1.11	11.45	H
									H
									H
									H
									H
	1557	-63.18	-13.00	-50.18	-71.86	-68.57	0.79	8.33	V
	2335	-59.32	-13	-46.32	-73.07	-66.73	1.01	10.57	V
	3113	-57.42	-13	-44.42	-73.48	-65.61	1.11	11.45	V
									V
									V
									V
									V
Middle	1560	-63.43	-42.15	-21.28	-72.06	-68.83	0.79	8.34	H
	2342	-59.26	-13	-46.26	-72.70	-66.68	1.01	10.58	H
	3123	-56.97	-13	-43.97	-72.80	-65.18	1.11	11.47	H
									H
									H
									H
									H
	1560	-63.30	-42.15	-21.15	-71.95	-68.70	0.79	8.34	V
	2342	-58.87	-13	-45.87	-72.62	-66.29	1.01	10.58	V
	3123	-57.18	-13	-44.18	-73.25	-65.39	1.11	11.47	V
									V
									V
									V
									V



Highest	1567	-63.76	-42.15	-21.61	-72.39	-69.19	0.79	8.37	H
	2350	-59.53	-13	-46.53	-72.97	-66.96	1.01	10.59	H
	3133	-57.54	-13	-44.54	-73.41	-65.77	1.11	11.49	H
									H
									H
									H
									H
	1567	-63.25	-42.15	-21.10	-71.87	-68.68	0.79	8.37	V
	2350	-59.23	-13	-46.23	-72.98	-66.66	1.01	10.59	V
	3133	-56.94	-13	-43.94	-73.04	-65.17	1.11	11.49	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	-63.47	-42.15	-21.32	-72.1	-68.87	0.79	8.34	H
	2339	-59.57	-13	-46.57	-73.01	-66.98	1.01	10.57	H
	3119	-57.35	-13	-44.35	-73.16	-65.55	1.11	11.46	H
									H
									H
									H
									H
	1560	-63.27	-42.15	-21.12	-71.93	-68.67	0.79	8.34	V
	2339	-59.33	-13	-46.33	-73.08	-66.74	1.01	10.57	V
	3119	-57.08	-13	-44.08	-73.15	-65.28	1.11	11.46	V
									V
									V
									V
									V

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

**LTE Band 41**

LTE Band 41 / 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	5012	-54.44	-25	-29.44	-75.11	-65.72	1.44	12.71	H
	7518	-49.24	-25	-24.24	-75.92	-57.86	2.49	11.11	H
	10024	-46.39	-25	-21.39	-77.1	-54.54	3.04	11.19	H
									H
									H
									H
									H
	5012	-53.26	-25	-28.26	-74.45	-64.54	1.44	12.71	V
	7518	-49.39	-25	-24.39	-75.88	-58.01	2.49	11.11	V
	10024	-46.90	-25	-21.90	-77.28	-55.05	3.04	11.19	V
									V
									V
									V
									V
Middle	5186	-54.70	-25	-29.70	-75.69	-66.07	1.56	12.92	H
	7779	-49.11	-25	-24.11	-75.35	-57.69	2.69	11.27	H
	10372	-45.45	-25	-20.45	-76.56	-53.29	3.22	11.05	H
									H
									H
									H
									H
	5186	-53.97	-25	-28.97	-75.66	-65.34	1.56	12.92	V
	7779	-49.10	-25	-24.10	-75.42	-57.68	2.69	11.27	V
	10372	-45.57	-25	-20.57	-76.46	-53.41	3.22	11.05	V
									V
									V
									V
									V



Highest	5360	-55.67	-25	-30.67	-76.96	-67.13	1.67	13.13	H
	8040	-47.45	-25	-22.45	-75.34	-56.05	2.86	11.46	H
	10720	-45.66	-25	-20.66	-76.99	-53.49	3.13	10.96	H
									H
									H
									H
									H
	5360	-54.83	-25	-29.83	-76.82	-66.29	1.67	13.13	V
	8040	-47.73	-25	-22.73	-75.41	-56.33	2.86	11.46	V
	10720	-45.87	-25	-20.87	-77.12	-53.70	3.13	10.96	V
									V
									V
									V
									V

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