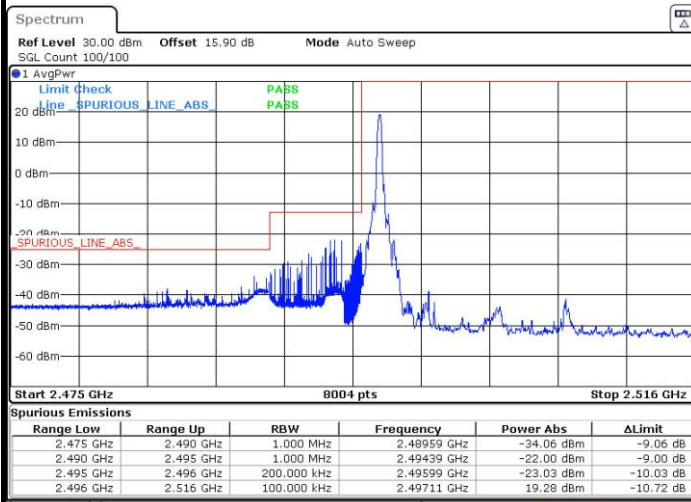


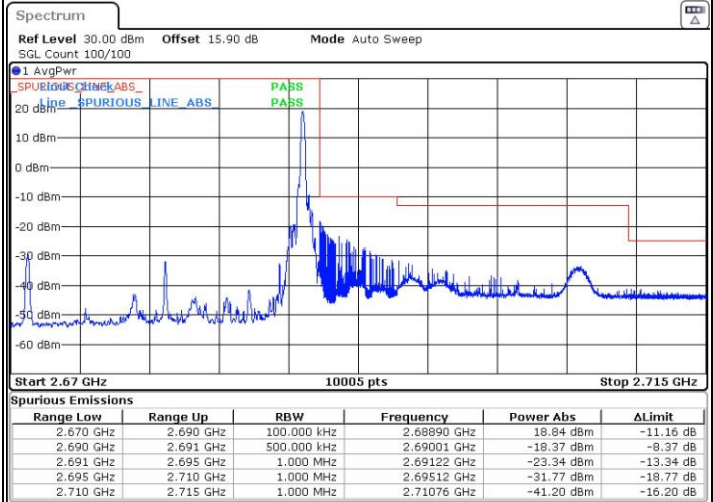


LTE Band 41 / 20MHz / QPSK

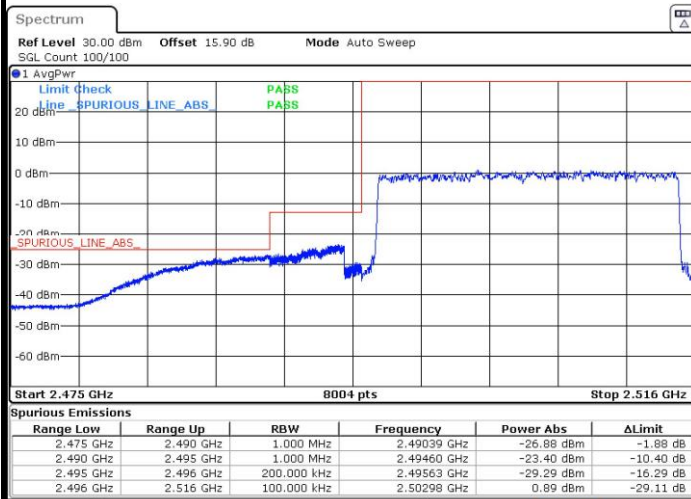
Lowest Band Edge / 1 RB



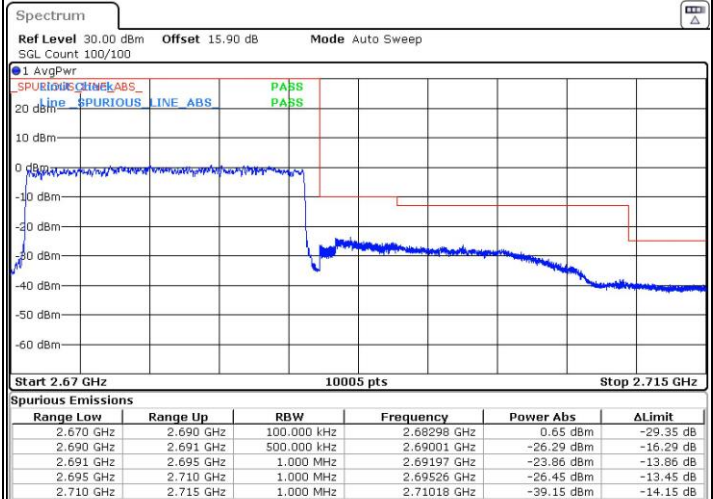
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



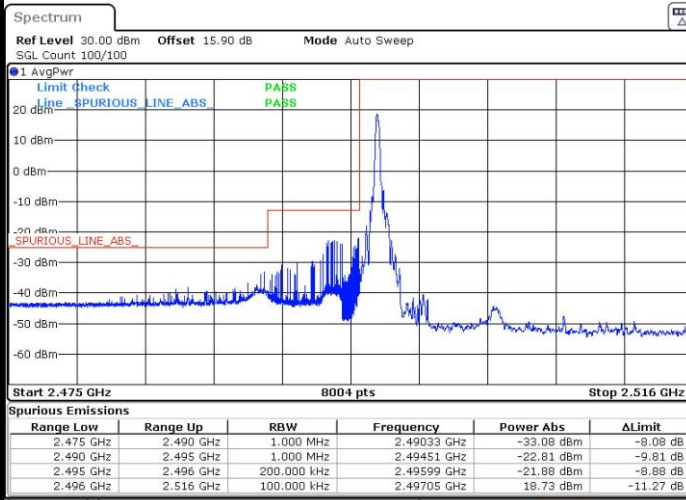
Highest Band Edge / Full RB



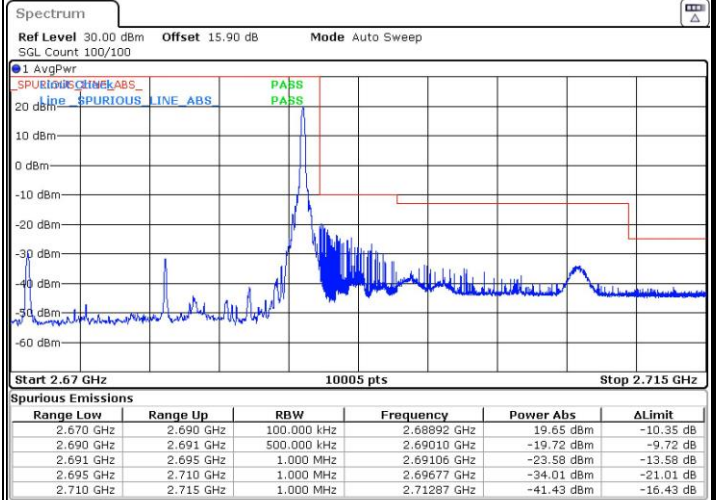


LTE Band 41 / 20MHz / 16QAM

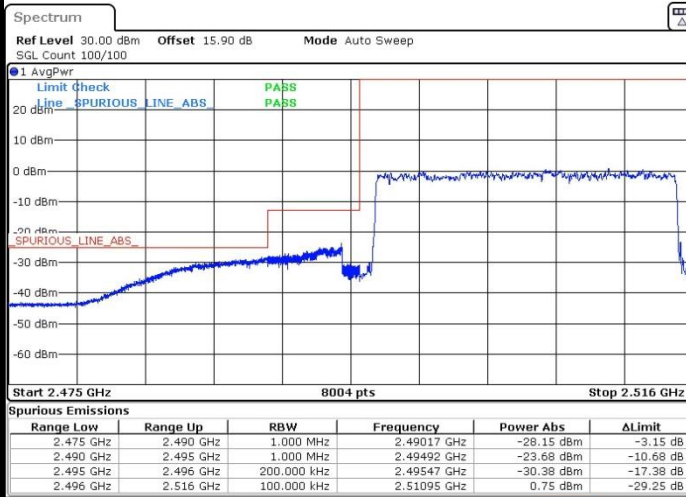
Lowest Band Edge / 1 RB



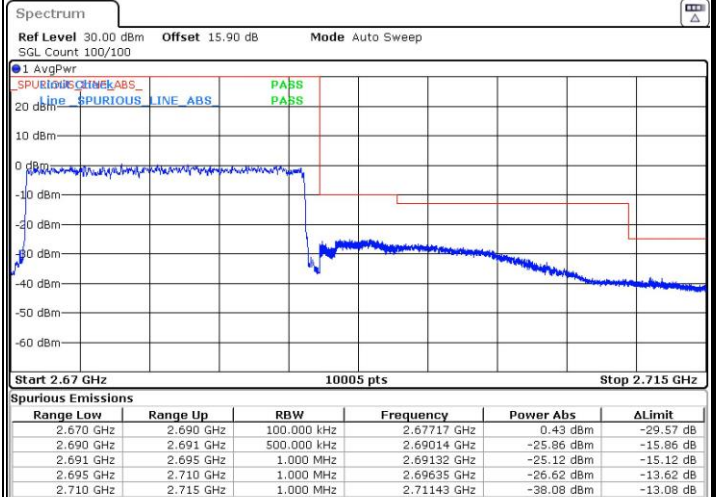
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



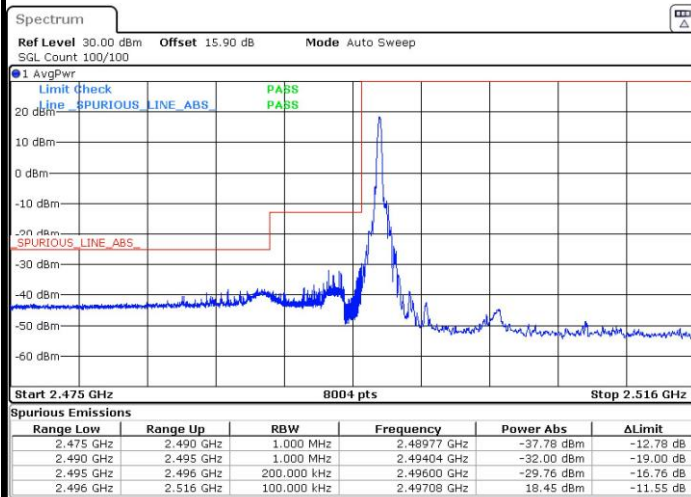
Highest Band Edge / Full RB



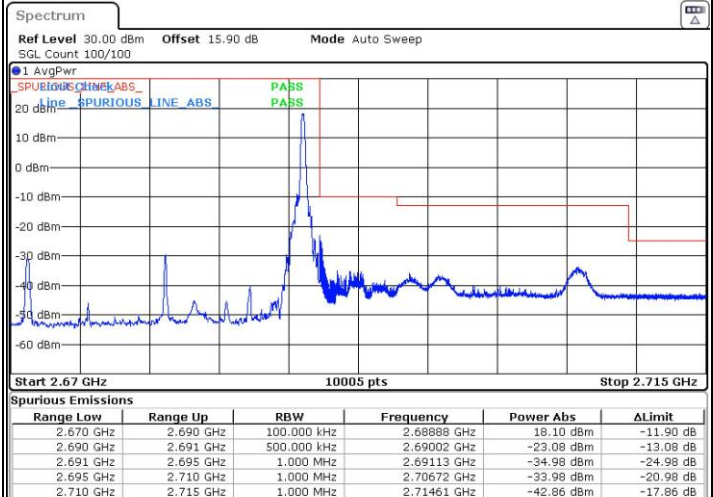


LTE Band 41 / 20MHz / 64QAM

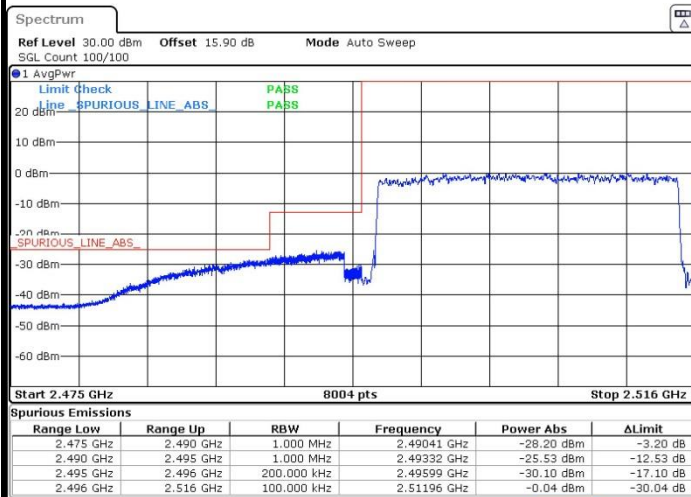
Lowest Band Edge / 1 RB



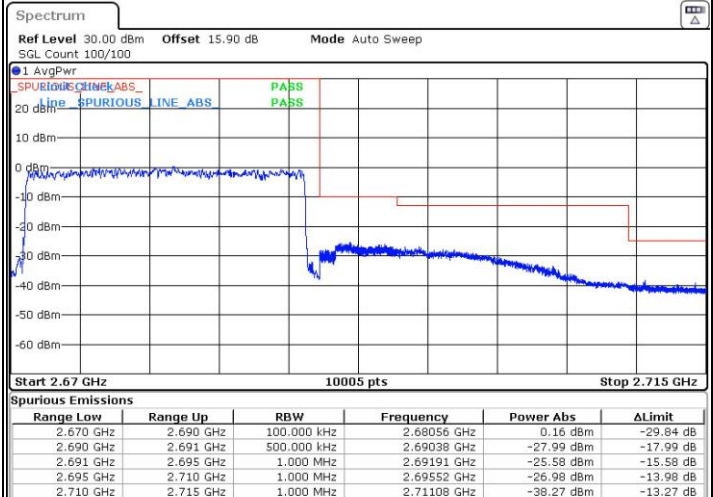
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

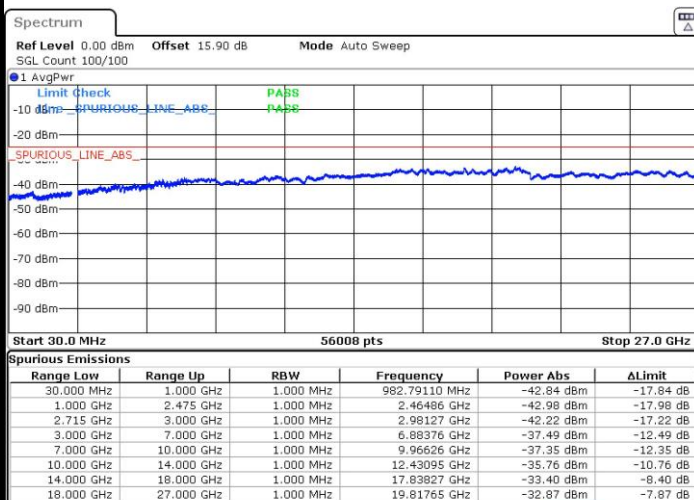




Conducted Spurious Emission

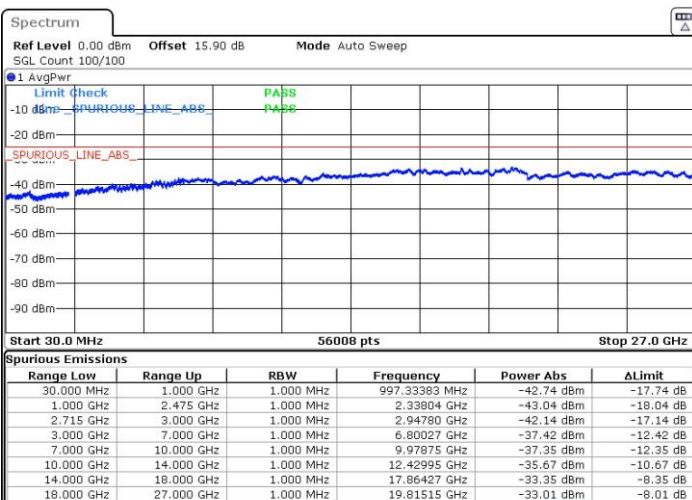
LTE Band 41 / 5MHz

Lowest Channel / QPSK



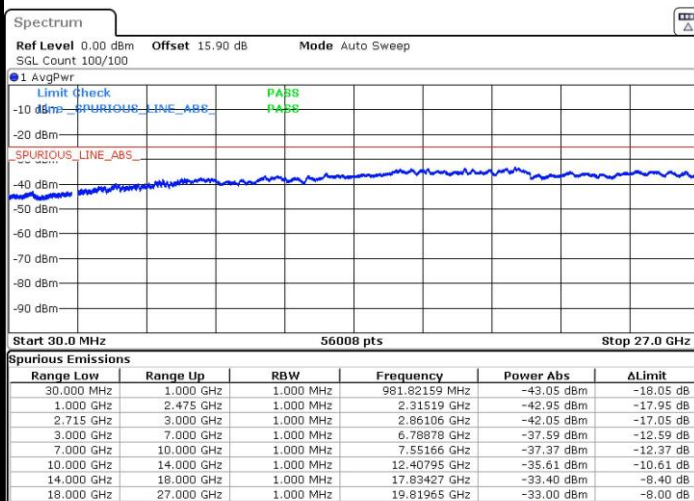
Date: 28 JUN 2019 13:41:45

Lowest Channel / 16QAM



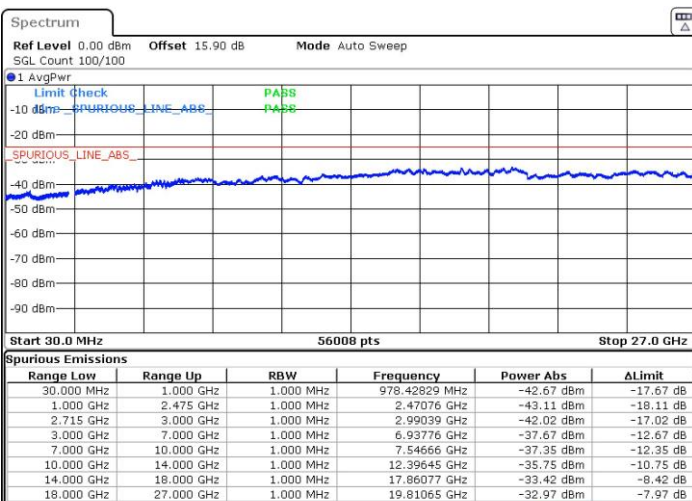
Date: 28 JUN 2019 13:42:32

Middle Channel / QPSK



Date: 28 JUN 2019 13:43:18

Middle Channel / 16QAM

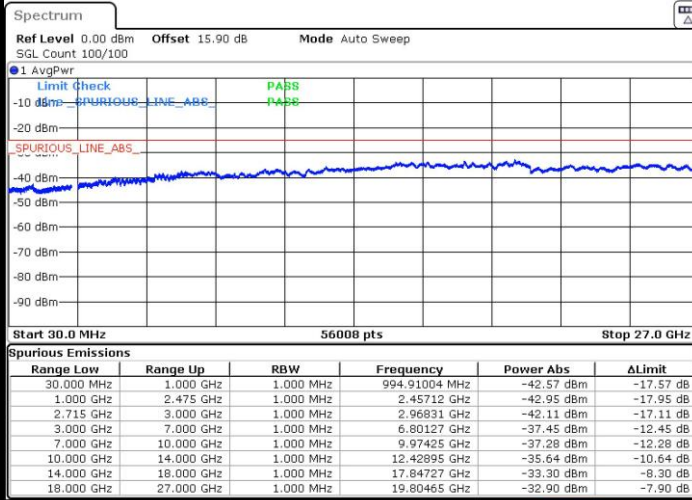


Date: 28 JUN 2019 13:44:04



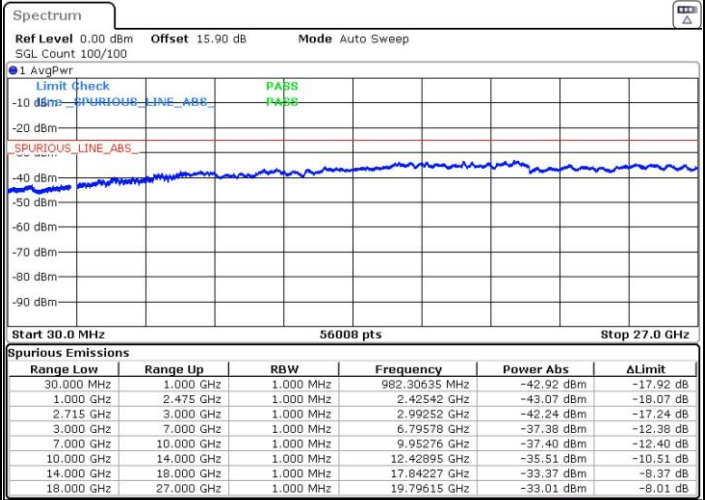
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 28 JUN 2019 13:44:51

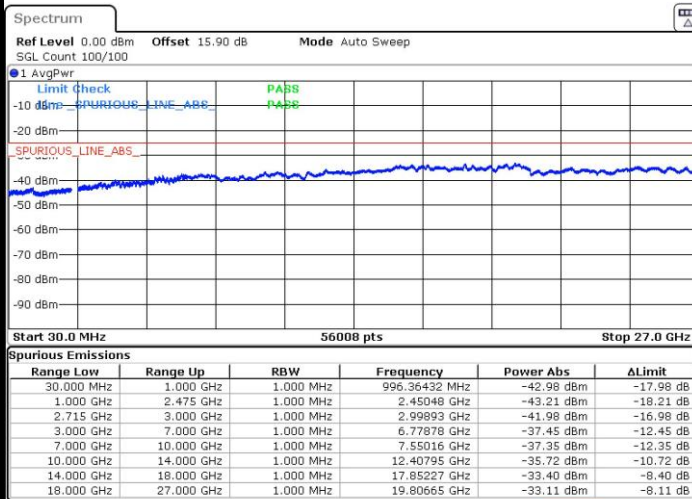
Highest Channel / 16QAM



Date: 28 JUN 2019 13:45:37

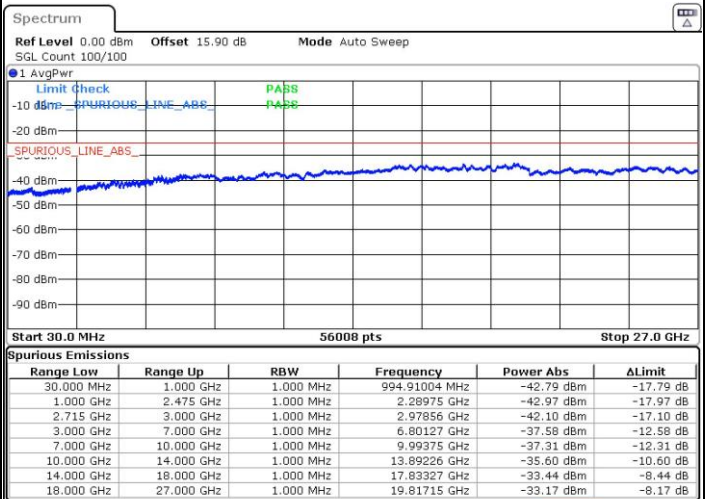
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 28 JUN 2019 13:46:25

Lowest Channel / 16QAM

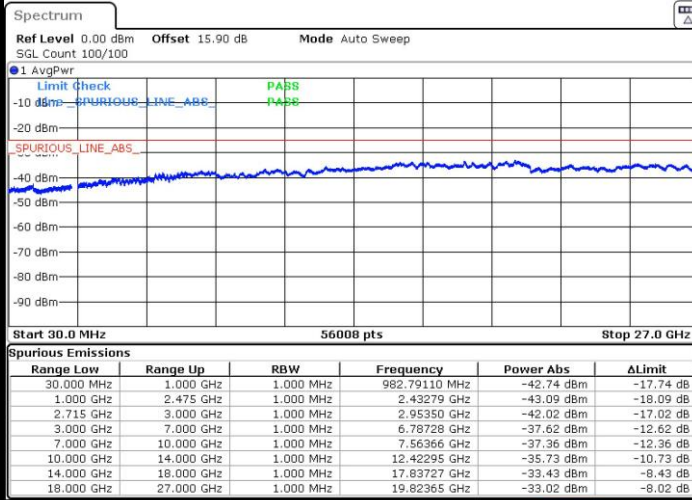


Date: 28 JUN 2019 13:47:12



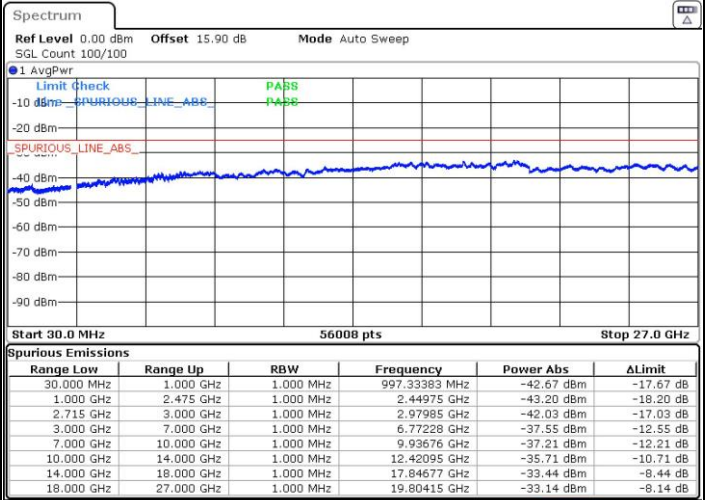
LTE Band 41 / 10MHz

Middle Channel / QPSK



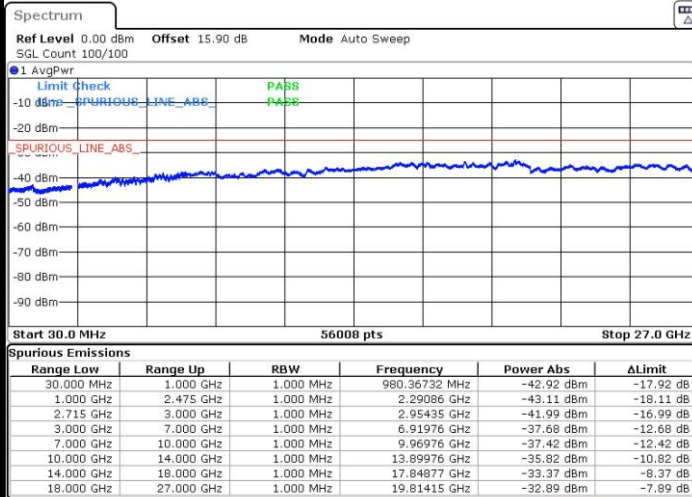
Date: 28 JUN 2019 13:47:58

Middle Channel / 16QAM



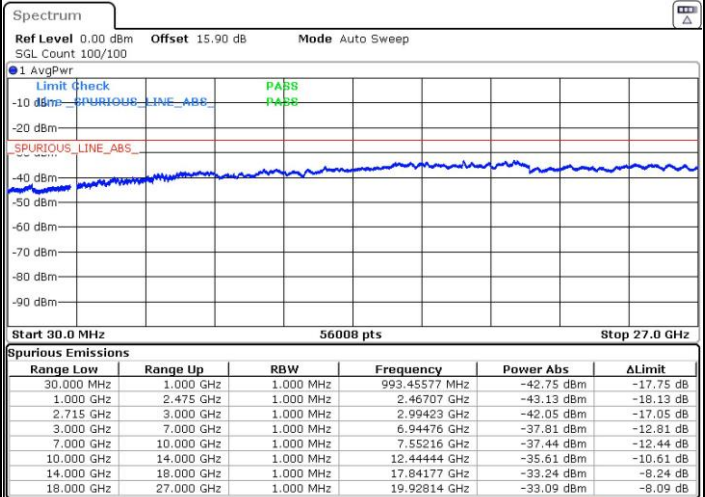
Date: 28 JUN 2019 13:48:44

Highest Channel / QPSK



Date: 28 JUN 2019 13:49:30

Highest Channel / 16QAM

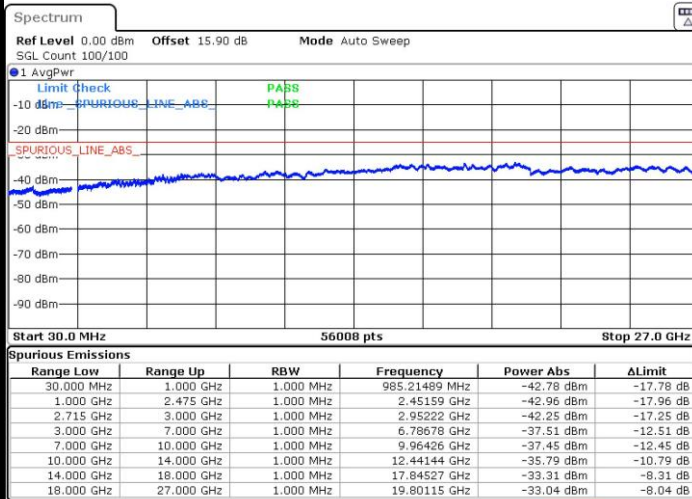


Date: 28 JUN 2019 13:50:16



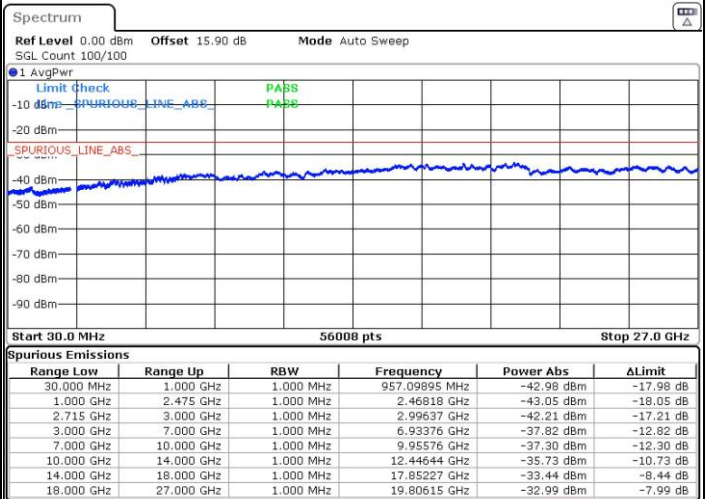
LTE Band 41 / 15MHz

Lowest Channel / QPSK



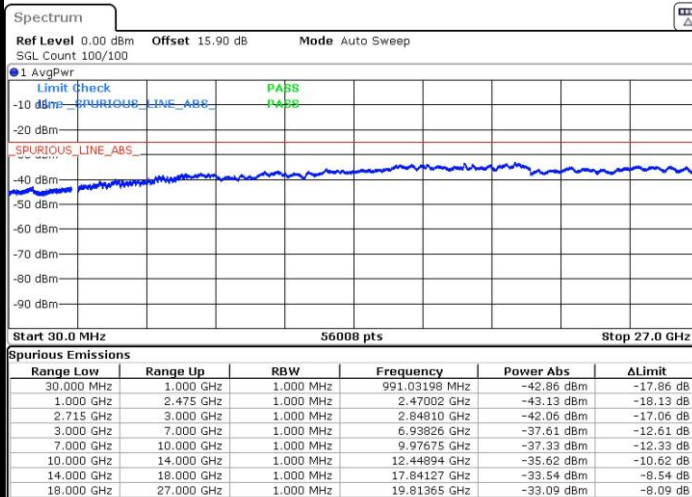
Date: 28 JUN 2019 13:51:04

Lowest Channel / 16QAM



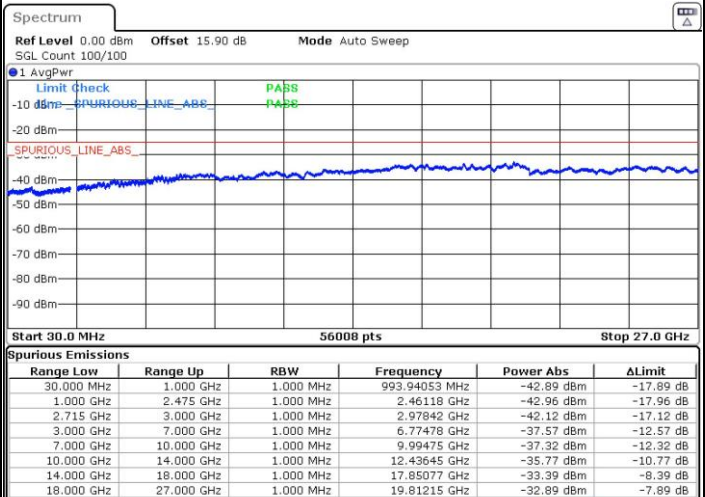
Date: 28 JUN 2019 13:51:51

Middle Channel / QPSK



Date: 28 JUN 2019 13:52:37

Middle Channel / 16QAM

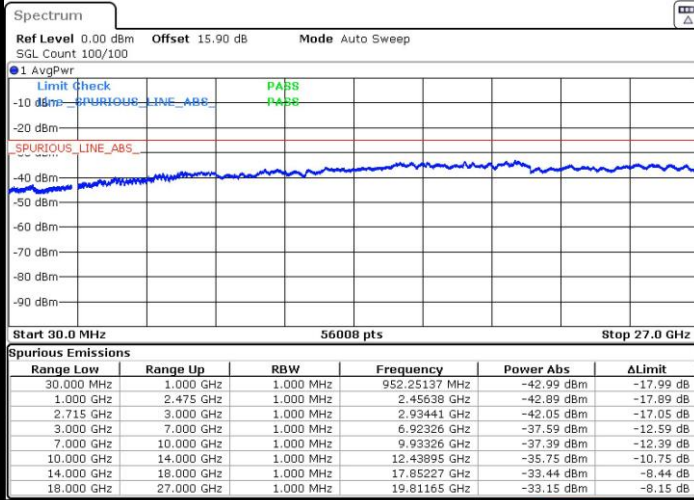


Date: 28 JUN 2019 13:53:23



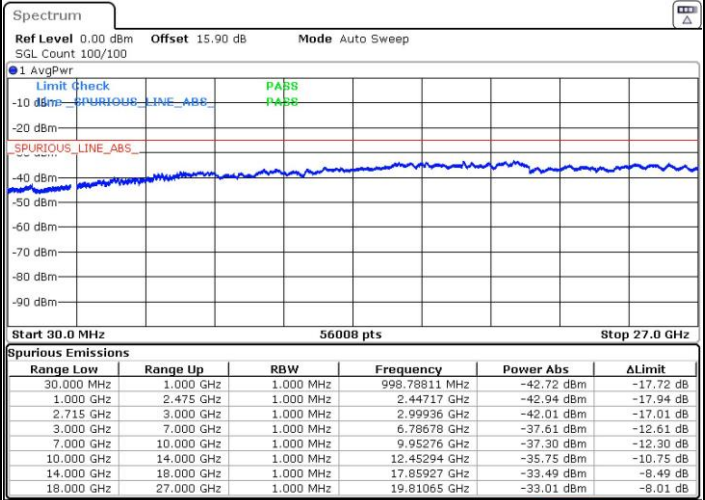
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 28 JUN 2019 13:54:09

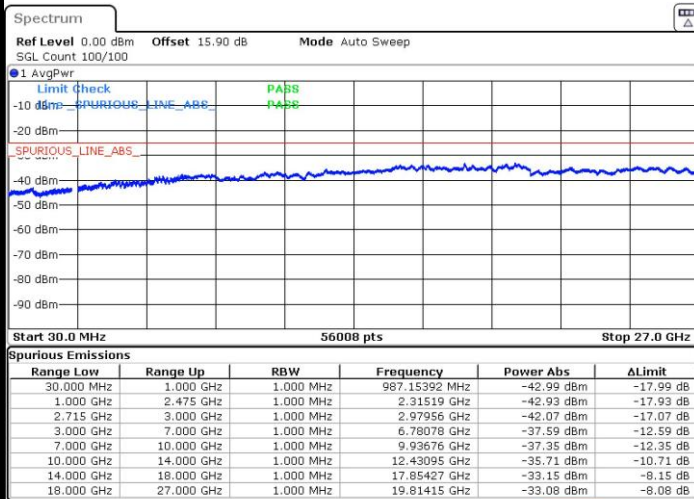
Highest Channel / 16QAM



Date: 28 JUN 2019 13:54:56

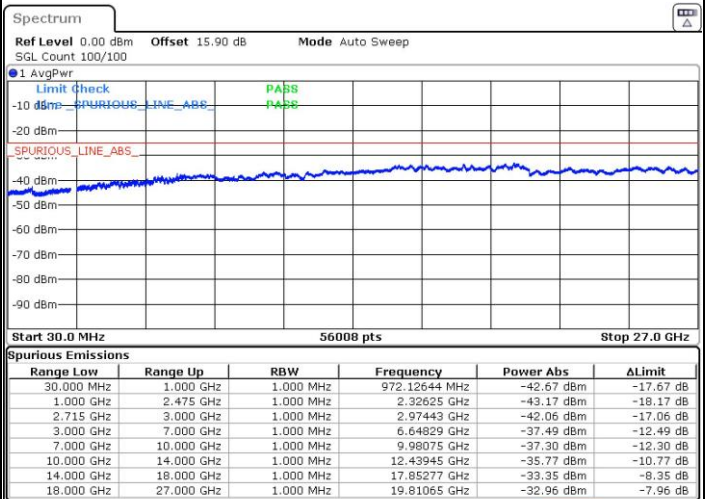
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 28 JUN 2019 13:55:44

Lowest Channel / 16QAM

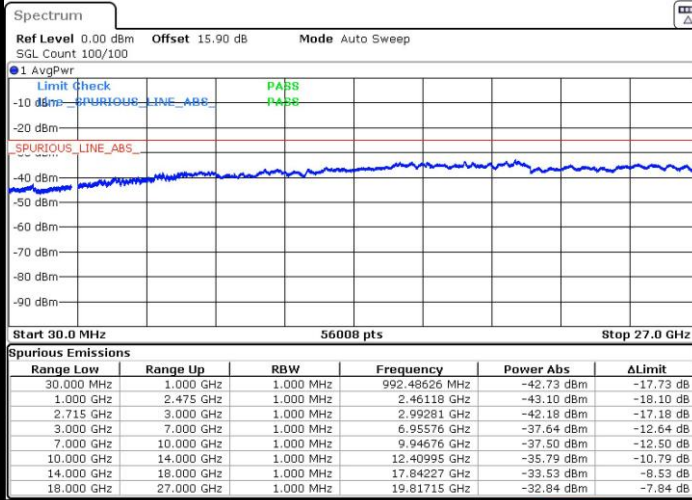


Date: 28 JUN 2019 13:56:30



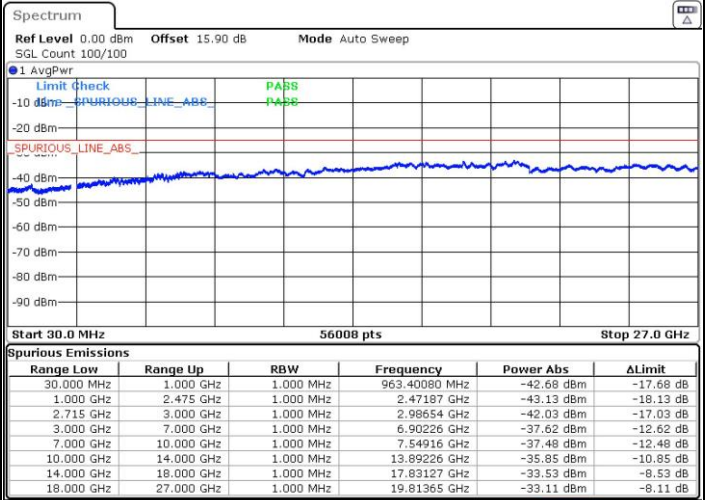
LTE Band 41 / 20MHz

Middle Channel / QPSK



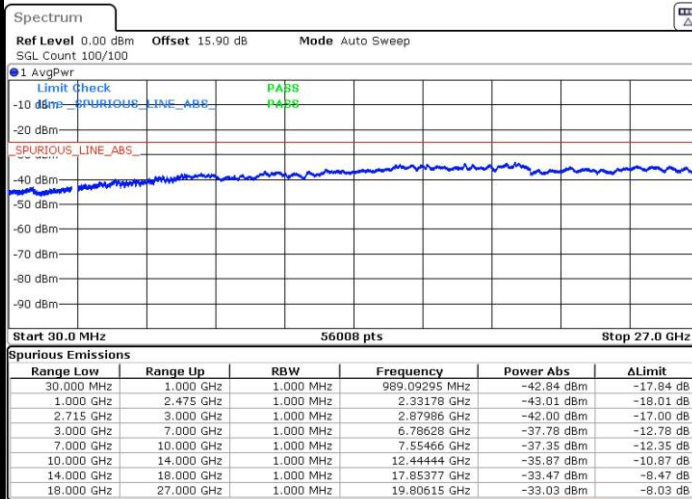
Date: 28 JUN 2019 13:57:16

Middle Channel / 16QAM



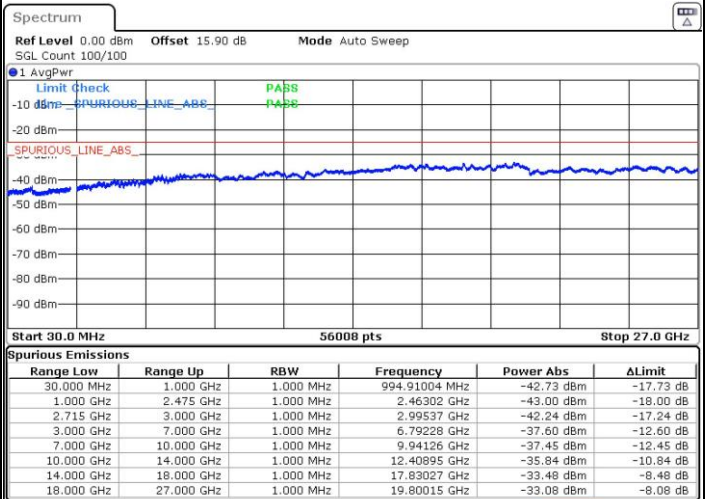
Date: 28 JUN 2019 13:58:02

Highest Channel / QPSK



Date: 28 JUN 2019 13:58:48

Highest Channel / 16QAM

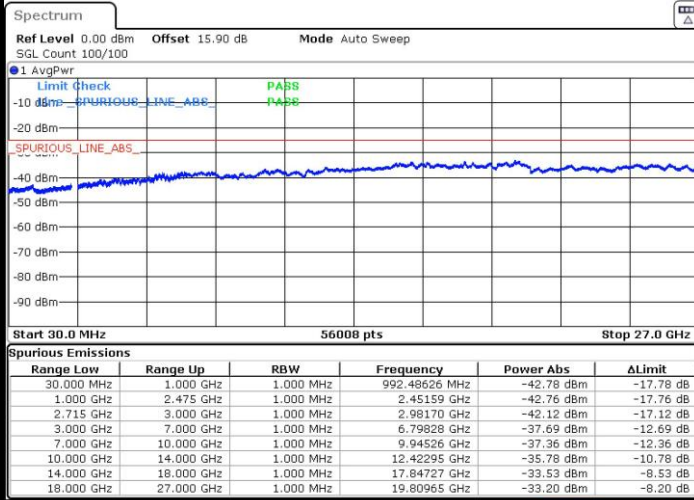


Date: 28 JUN 2019 13:59:35



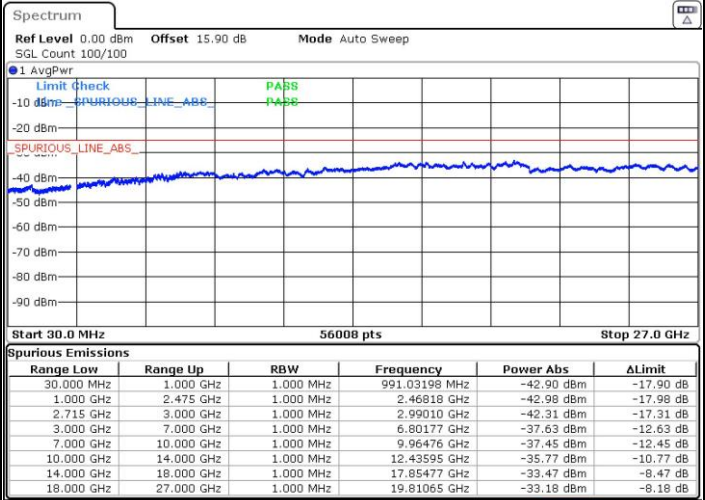
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



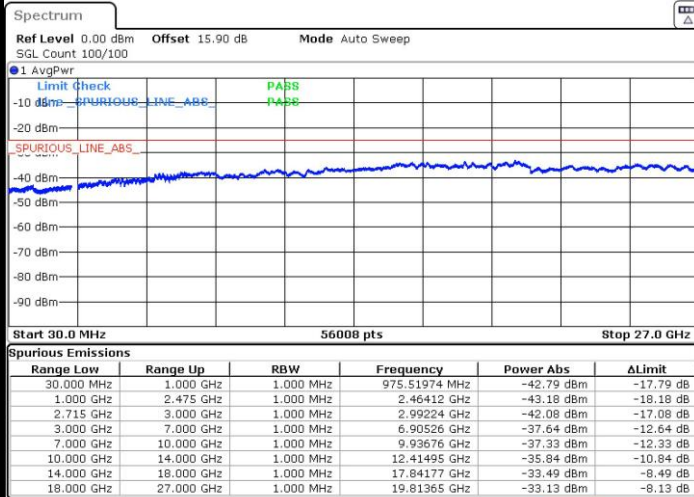
Date: 28 JUN 2019 11:29:19

Middle Channel / 64QAM



Date: 28 JUN 2019 11:30:05

Highest Channel / 64QAM

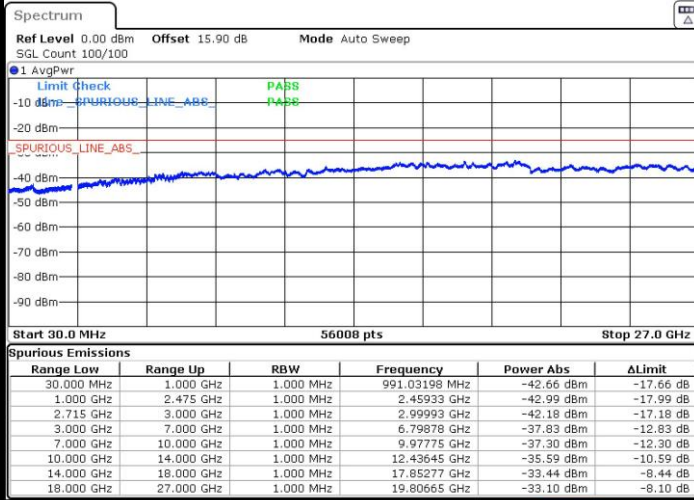


Date: 28 JUN 2019 11:30:51



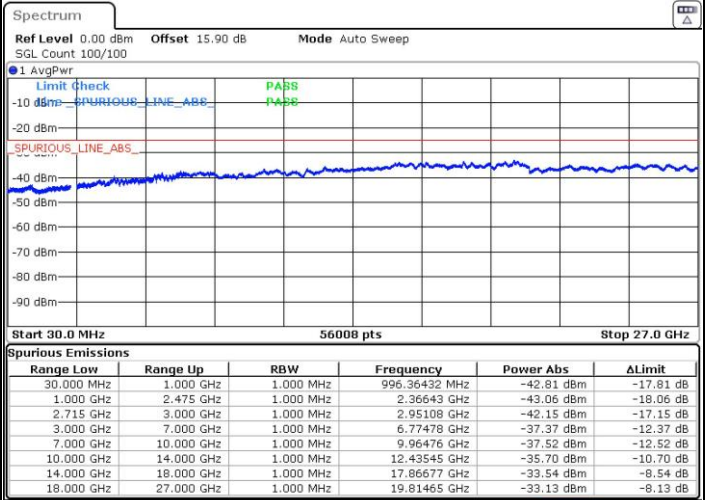
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



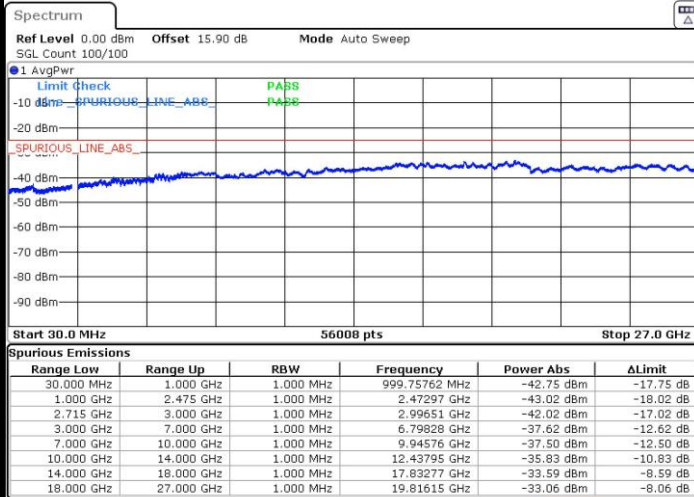
Date: 28 JUN 2019 11:31:39

Middle Channel / 64QAM



Date: 28 JUN 2019 11:32:25

Highest Channel / 64QAM

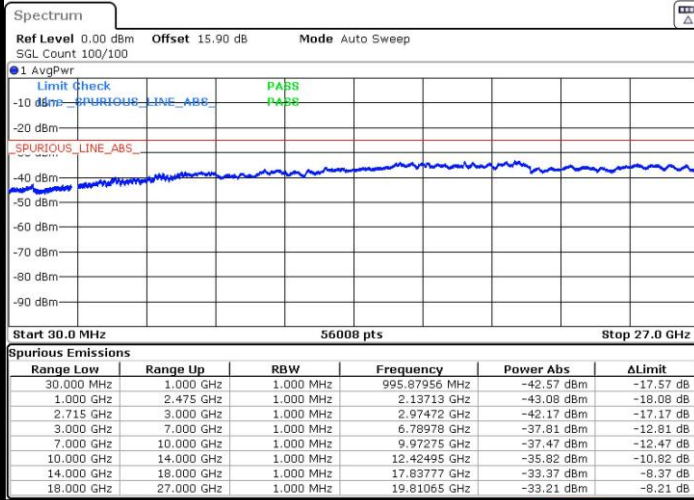


Date: 28 JUN 2019 11:33:11



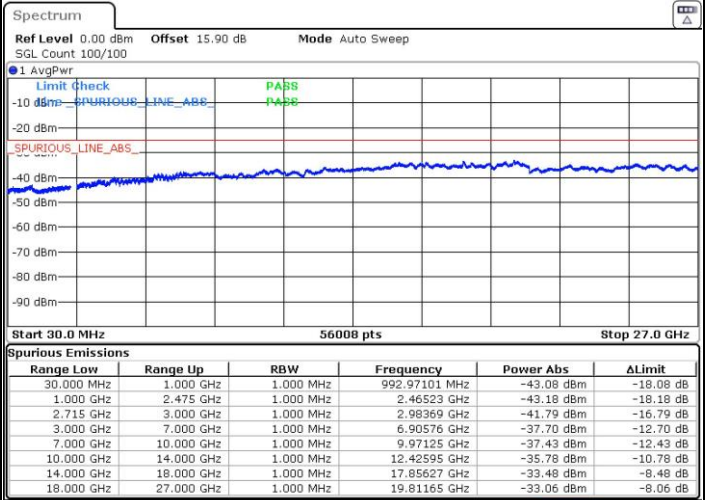
LTE Band 41 / 15MHz

Lowest Channel / 64QAM



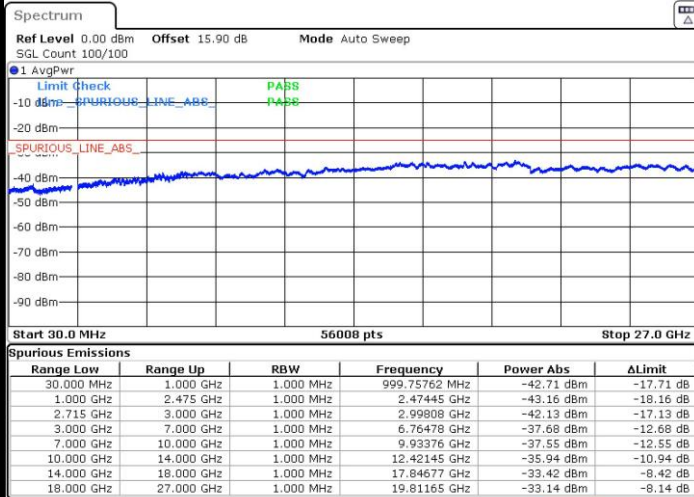
Date: 28 JUN 2019 11:33:59

Middle Channel / 64QAM



Date: 28 JUN 2019 11:34:45

Highest Channel / 64QAM

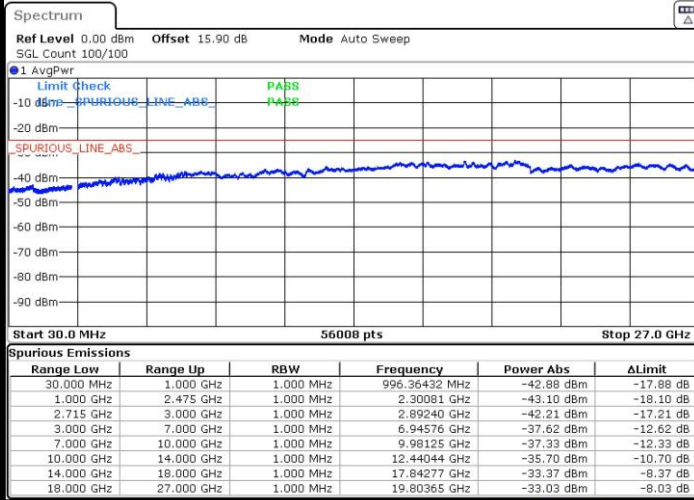


Date: 28 JUN 2019 11:35:31



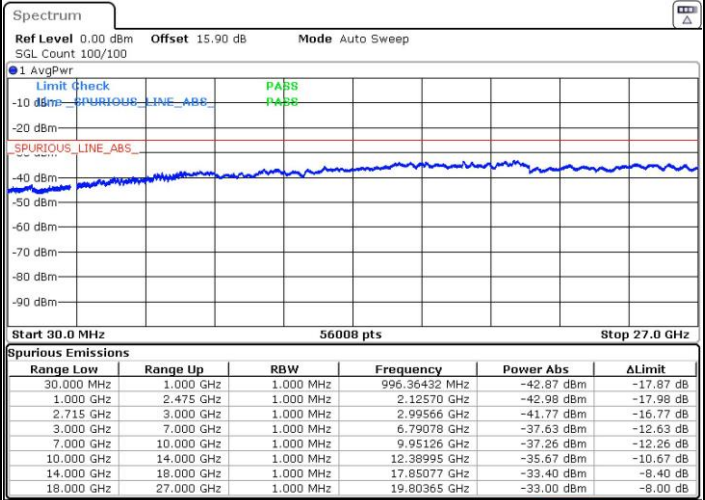
LTE Band 41 / 20MHz

Lowest Channel / 64QAM



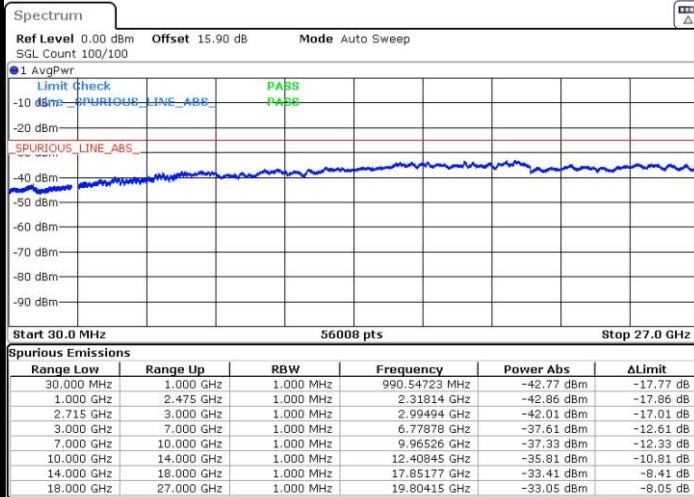
Date: 28 JUN 2019 13:39:25

Middle Channel / 64QAM



Date: 28 JUN 2019 13:40:11

Highest Channel / 64QAM



Date: 28 JUN 2019 13:40:57

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	0.0008	PASS
40	Normal Voltage	0.0047	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0069	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0045	

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 = -1.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	3	17.97	0.0627	16.77	0.0475
Middle		1	3	17.79	0.0601	16.59	0.0456
Highest		1	3	17.84	0.0608	16.64	0.0461
Lowest	16QAM	1	0	17.88	0.0614	16.68	0.0466
Middle		1	0	17.44	0.0555	16.24	0.0421
Highest		1	0	17.38	0.0547	16.18	0.0415
Lowest	64QAM	1	0	17.80	0.0603	16.60	0.0457
Middle		1	0	17.49	0.0561	16.29	0.0426
Highest		1	0	17.51	0.0564	16.31	0.0428
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = -1.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	18.14	0.0652	16.94	0.0494
Middle		1	8	17.80	0.0603	16.60	0.0457
Highest		1	8	17.88	0.0614	16.68	0.0466
Lowest	16QAM	1	14	17.77	0.0598	16.57	0.0454
Middle		1	14	17.05	0.0507	15.85	0.0385
Highest		1	14	17.70	0.0589	16.50	0.0447
Lowest	64QAM	1	8	17.80	0.0603	16.60	0.0457
Middle		1	8	17.45	0.0556	16.25	0.0422
Highest		1	8	17.79	0.0601	16.59	0.0456
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = -1.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	0	18.07	0.0641	16.87	0.0486
Middle		12	0	17.73	0.0593	16.53	0.0450
Highest		12	0	17.75	0.0596	16.55	0.0452
Lowest	16QAM	12	0	17.65	0.0582	16.45	0.0442
Middle		12	0	17.30	0.0537	16.10	0.0407
Highest		12	0	17.31	0.0538	16.11	0.0408
Lowest	64QAM	1	0	17.83	0.0607	16.63	0.0460
Middle		1	0	17.54	0.0568	16.34	0.0431
Highest		1	0	17.34	0.0542	16.14	0.0411
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = -1.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	18.07	0.0641	16.87	0.0486
Middle		50	0	17.83	0.0607	16.63	0.0460
Highest		50	0	17.85	0.0610	16.65	0.0462
Lowest	16QAM	1	0	17.69	0.0587	16.49	0.0446
Middle		1	0	17.70	0.0589	16.50	0.0447
Highest		1	0	17.97	0.0627	16.77	0.0475
Lowest	64QAM	1	49	17.69	0.0587	16.49	0.0446
Middle		1	49	17.49	0.0561	16.29	0.0426
Highest		1	49	17.48	0.0560	16.28	0.0425
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = -1.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	20	18.20	0.0661	17.00	0.0501
Middle		36	20	17.99	0.0630	16.79	0.0478
Highest		36	20	17.93	0.0621	16.73	0.0471
Lowest	16QAM	1	37	17.87	0.0612	16.67	0.0465
Middle		1	37	17.62	0.0578	16.42	0.0439
Highest		1	37	17.71	0.0590	16.51	0.0448
Lowest	64QAM	1	0	17.47	0.0558	16.27	0.0424
Middle		1	0	17.78	0.0600	16.58	0.0455
Highest		1	0	17.71	0.0590	16.51	0.0448
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = -1.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	18.21	0.0662	17.01	0.0502
Middle		50	0	17.93	0.0621	16.73	0.0471
Highest		50	0	17.94	0.0622	16.74	0.0472
Lowest	16QAM	1	0	18.02	0.0634	16.82	0.0481
Middle		1	0	17.95	0.0624	16.75	0.0473
Highest		1	0	17.77	0.0598	16.57	0.0454
Lowest	64QAM	50	24	17.74	0.0594	16.54	0.0451
Middle		50	24	17.46	0.0557	16.26	0.0423
Highest		50	24	17.56	0.0570	16.36	0.0433
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -5.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	23.54	0.2259	16.19	0.0416
Middle		1	3	23.58	0.2280	16.23	0.0420
Highest		1	3	23.55	0.2265	16.20	0.0417
Lowest	16QAM	1	5	22.43	0.1750	15.08	0.0322
Middle		1	5	22.09	0.1618	14.74	0.0298
Highest		1	5	22.22	0.1667	14.87	0.0307
Lowest	64QAM	1	3	21.27	0.1340	13.92	0.0247
Middle		1	3	21.41	0.1384	14.06	0.0255
Highest		1	3	21.03	0.1268	13.68	0.0233
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -5.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.57	0.2275	16.22	0.0419
Middle		1	8	23.66	0.2323	16.31	0.0428
Highest		1	8	23.68	0.2333	16.33	0.0430
Lowest	16QAM	1	14	22.59	0.1816	15.24	0.0334
Middle		1	14	22.33	0.1710	14.98	0.0315
Highest		1	14	22.34	0.1714	14.99	0.0316
Lowest	64QAM	1	14	21.30	0.1349	13.95	0.0248
Middle		1	14	21.47	0.1403	14.12	0.0258
Highest		1	14	21.50	0.1413	14.15	0.0260
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -5.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.66	0.2323	16.31	0.0428
Middle		1	12	23.71	0.2350	16.36	0.0433
Highest		1	12	23.63	0.2307	16.28	0.0425
Lowest	16QAM	1	24	22.06	0.1607	14.71	0.0296
Middle		1	24	22.54	0.1795	15.19	0.0330
Highest		1	24	22.18	0.1652	14.83	0.0304
Lowest	64QAM	1	24	21.42	0.1387	14.07	0.0255
Middle		1	24	21.42	0.1387	14.07	0.0255
Highest		1	24	21.35	0.1365	14.00	0.0251
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -5.2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.45	0.2213	16.10	0.0407
Middle		1	0	23.77	0.2382	16.42	0.0439
Highest		1	0	23.67	0.2328	16.32	0.0429
Lowest	16QAM	1	0	22.08	0.1614	14.73	0.0297
Middle		1	0	22.11	0.1626	14.76	0.0299
Highest		1	0	22.21	0.1663	14.86	0.0306
Lowest	64QAM	1	0	21.33	0.1358	13.98	0.0250
Middle		1	0	21.21	0.1321	13.86	0.0243
Highest		1	0	21.51	0.1416	14.16	0.0261
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	7	19.32	0.0855	18.82	0.0762
Middle		12	7	19.15	0.0822	18.65	0.0733
Highest		12	7	19.28	0.0847	18.78	0.0755
Lowest	16QAM	1	24	18.95	0.0785	18.45	0.0700
Middle		1	24	18.81	0.0760	18.31	0.0678
Highest		1	24	18.91	0.0778	18.41	0.0693
Lowest	64QAM	1	24	18.84	0.0766	18.34	0.0682
Middle		1	24	18.77	0.0753	18.27	0.0671
Highest		1	24	18.86	0.0769	18.36	0.0685
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	25	0	19.19	0.0830	18.69	0.0740
Middle		25	0	19.08	0.0809	18.58	0.0721
Highest		25	0	19.20	0.0832	18.70	0.0741
Lowest	16QAM	1	0	18.88	0.0773	18.38	0.0689
Middle		1	0	18.72	0.0745	18.22	0.0664
Highest		1	0	18.81	0.0760	18.31	0.0678
Lowest	64QAM	1	49	18.85	0.0767	18.35	0.0684
Middle		1	49	18.65	0.0733	18.15	0.0653
Highest		1	49	18.73	0.0746	18.23	0.0665
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	20	19.35	0.0861	18.85	0.0767
Middle		36	20	19.21	0.0834	18.71	0.0743
Highest		36	20	19.35	0.0861	18.85	0.0767
Lowest	16QAM	1	0	19.00	0.0794	18.50	0.0708
Middle		1	0	18.82	0.0762	18.32	0.0679
Highest		1	0	18.84	0.0766	18.34	0.0682
Lowest	64QAM	1	0	18.94	0.0783	18.44	0.0698
Middle		1	0	18.77	0.0753	18.27	0.0671
Highest		1	0	18.84	0.0766	18.34	0.0682
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 20MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	50	19.36	0.0863	18.86	0.0769
Middle		50	50	19.24	0.0839	18.74	0.0748
Highest		50	50	19.32	0.0855	18.82	0.0762
Lowest	16QAM	1	0	18.98	0.0791	18.48	0.0705
Middle		1	0	18.82	0.0762	18.32	0.0679
Highest		1	0	18.79	0.0757	18.29	0.0675
Lowest	64QAM	1	0	18.89	0.0774	18.39	0.0690
Middle		1	0	18.71	0.0743	18.21	0.0662
Highest		1	0	18.76	0.0752	18.26	0.0670
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -7.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	23.93	0.2472	14.48	0.0281
Middle		3	1	23.84	0.2421	14.39	0.0275
Highest		3	1	23.79	0.2393	14.34	0.0272
Lowest	16QAM	1	0	22.61	0.1824	13.16	0.0207
Middle		1	0	22.66	0.1845	13.21	0.0209
Highest		1	0	22.41	0.1742	12.96	0.0198
Lowest	64QAM	1	3	21.61	0.1449	12.16	0.0164
Middle		1	3	21.71	0.1483	12.26	0.0168
Highest		1	3	21.41	0.1384	11.96	0.0157
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -7.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.99	0.2506	14.54	0.0284
Middle		1	8	23.98	0.2500	14.53	0.0284
Highest		1	8	23.99	0.2506	14.54	0.0284
Lowest	16QAM	1	8	22.91	0.1954	13.46	0.0222
Middle		1	8	23.00	0.1995	13.55	0.0226
Highest		1	8	22.79	0.1901	13.34	0.0216
Lowest	64QAM	1	8	21.82	0.1521	12.37	0.0173
Middle		1	8	21.62	0.1452	12.17	0.0165
Highest		1	8	21.68	0.1472	12.23	0.0167
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -7.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.98	0.2500	14.53	0.0284
Middle		1	12	24.04	0.2535	14.59	0.0288
Highest		1	12	23.97	0.2495	14.52	0.0283
Lowest	16QAM	1	12	22.49	0.1774	13.04	0.0201
Middle		1	12	22.89	0.1945	13.44	0.0221
Highest		1	12	22.51	0.1782	13.06	0.0202
Lowest	64QAM	1	24	21.74	0.1493	12.29	0.0169
Middle		1	24	21.49	0.1409	12.04	0.0160
Highest		1	24	21.70	0.1479	12.25	0.0168
Limit	ERP < 3W			Result		PASS	



LTE Band 12 / 10MHz (Average) (GT - LC = -7.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	23.95	0.2483	14.50	0.0282
Middle		1	49	23.86	0.2432	14.41	0.0276
Highest		1	49	23.87	0.2438	14.42	0.0277
Lowest	16QAM	1	0	22.69	0.1858	13.24	0.0211
Middle		1	0	22.25	0.1679	12.80	0.0191
Highest		1	0	22.28	0.1690	12.83	0.0192
Lowest	64QAM	1	0	21.53	0.1422	12.08	0.0161
Middle		1	0	21.69	0.1476	12.24	0.0167
Highest		1	0	21.61	0.1449	12.16	0.0164
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -7.7 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	24.14	0.2594	14.29	0.0269
Middle		1	24	24.11	0.2576	14.26	0.0267
Highest		1	24	24.14	0.2594	14.29	0.0269
Lowest	16QAM	1	24	22.55	0.1799	12.70	0.0186
Middle		1	24	22.70	0.1862	12.85	0.0193
Highest		1	24	23.02	0.2004	13.17	0.0207
Lowest	64QAM	1	12	21.83	0.1524	11.98	0.0158
Middle		1	12	21.90	0.1549	12.05	0.0160
Highest		1	12	21.91	0.1552	12.06	0.0161
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -7.7 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	49	24.19	0.2624	14.34	0.0272
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	22.67	0.1849	12.82	0.0191
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	49	22.05	0.1603	12.20	0.0166
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -7.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.97	0.2495	14.52	0.0283
Middle		1	12	24.02	0.2523	14.57	0.0286
Highest		1	12	23.80	0.2399	14.35	0.0272
Lowest	16QAM	1	12	22.29	0.1694	12.84	0.0192
Middle		1	12	22.89	0.1945	13.44	0.0221
Highest		1	12	22.63	0.1832	13.18	0.0208
Lowest	64QAM	1	12	21.78	0.1507	12.33	0.0171
Middle		1	12	21.57	0.1435	12.12	0.0163
Highest		1	12	21.69	0.1476	12.24	0.0167
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -7.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.85	0.2427	14.40	0.0275
Middle		1	0	23.85	0.2427	14.40	0.0275
Highest		1	0	23.93	0.2472	14.48	0.0281
Lowest	16QAM	1	25	22.49	0.1774	13.04	0.0201
Middle		1	25	22.53	0.1791	13.08	0.0203
Highest		1	25	22.22	0.1667	12.77	0.0189
Lowest	64QAM	1	25	21.74	0.1493	12.29	0.0169
Middle		1	25	21.57	0.1435	12.12	0.0163
Highest		1	25	21.58	0.1439	12.13	0.0163
Limit	ERP < 3W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.15	0.1303	20.65	0.1161
Middle		1	0	21.22	0.1324	20.72	0.1180
Highest		1	0	21.28	0.1343	20.78	0.1197
Lowest	16QAM	1	24	20.70	0.1175	20.20	0.1047
Middle		1	24	20.86	0.1219	20.36	0.1086
Highest		1	24	20.83	0.1211	20.33	0.1079
Lowest	64QAM	1	24	20.57	0.1140	20.07	0.1016
Middle		1	24	20.61	0.1151	20.11	0.1026
Highest		1	24	20.59	0.1146	20.09	0.1021
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	25	12	21.26	0.1337	20.76	0.1191
Middle		25	12	21.34	0.1361	20.84	0.1213
Highest		25	12	21.32	0.1355	20.82	0.1208
Lowest	16QAM	25	0	20.81	0.1205	20.31	0.1074
Middle		25	0	20.85	0.1216	20.35	0.1084
Highest		25	0	20.88	0.1225	20.38	0.1091
Lowest	64QAM	1	49	20.51	0.1125	20.01	0.1002
Middle		1	49	20.58	0.1143	20.08	0.1019
Highest		1	49	20.56	0.1138	20.06	0.1014
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	39	21.35	0.1365	20.85	0.1216
Middle		36	39	21.45	0.1396	20.95	0.1245
Highest		36	39	21.50	0.1413	21.00	0.1259
Lowest	16QAM	75	0	20.92	0.1236	20.42	0.1102
Middle		75	0	20.99	0.1256	20.49	0.1119
Highest		75	0	21.01	0.1262	20.51	0.1125
Lowest	64QAM	1	74	20.57	0.1140	20.07	0.1016
Middle		1	74	20.64	0.1159	20.14	0.1033
Highest		1	74	20.75	0.1189	20.25	0.1059
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 20MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	50	21.35	0.1365	20.85	0.1216
Middle		50	50	21.48	0.1406	20.98	0.1253
Highest		50	50	21.57	0.1435	21.07	0.1279
Lowest	16QAM	50	50	20.93	0.1239	20.43	0.1104
Middle		50	50	20.97	0.1250	20.47	0.1114
Highest		50	50	21.10	0.1288	20.60	0.1148
Lowest	64QAM	1	99	20.56	0.1138	20.06	0.1014
Middle		1	99	20.58	0.1143	20.08	0.1019
Highest		1	99	20.81	0.1205	20.31	0.1074
Limit	EIRP < 2W			Result		PASS	

**Radiated Spurious Emission****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	3431	-55.02	-13	-42.02	-71.33	-66.01	1.35	12.33	H
	5146	-50.57	-13	-37.57	-72.28	-61.73	1.65	12.80	H
	6862	-46.73	-13	-33.73	-72.23	-57.08	1.74	12.09	H
									H
									H
									H
	3431	-56.02	-13	-43.02	-72.74	-67.01	1.35	12.33	V
	5146	-52.17	-13	-39.17	-73.64	-63.33	1.65	12.80	V
	6862	-48.56	-13	-35.56	-73.65	-58.91	1.74	12.09	V
									V
									V
									V
Middle	3481	-54.98	-13	-41.98	-71.77	-66.08	1.36	12.45	H
	5222	-50.71	-13	-37.71	-72.51	-61.95	1.67	12.91	H
	6962	-46.44	-13	-33.44	-72.47	-56.67	1.73	11.95	H
									H
									H
									H
									H
									V
	3481	-55.89	-13	-42.89	-73.05	-66.99	1.36	12.45	V
	5222	-51.98	-13	-38.98	-73.6	-63.22	1.67	12.91	V
	6962	-48.11	-13	-35.11	-73.66	-58.34	1.73	11.95	V
									V
									V
									V



Highest	3456	-55.31	-13	-42.31	-71.85	-66.35	1.35	12.39	H
	5184	-50.96	-13	-37.96	-72.68	-62.16	1.66	12.86	H
	6912	-46.60	-13	-33.60	-72.37	-56.89	1.73	12.02	H
									H
									H
									H
									H
	3456	-55.97	-13	-42.97	-72.9	-67.01	1.35	12.39	V
	5184	-52.38	-13	-39.38	-73.92	-63.58	1.66	12.86	V
	6912	-48.29	-13	-35.29	-73.62	-58.58	1.73	12.02	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	1649	-60.60	-13	-47.60	-70.69	-66.20	0.92	8.67	H
	2473	-56.53	-13	-43.53	-70.85	-63.90	1.14	10.66	H
	3298	-55.49	-13	-42.49	-71.16	-64.03	1.32	12.02	H
									H
									H
									H
									H
	1649	-61.20	-13	-48.20	-70.76	-66.80	0.92	8.67	V
	2473	-56.10	-13	-43.10	-70.57	-63.47	1.14	10.66	V
	3298	-55.10	-13	-42.10	-71.24	-63.64	1.32	12.02	V
									V
									V
									V
									V
Middle	1664	-60.59	-13	-47.59	-70.72	-66.24	0.93	8.72	H
	2496	-56.19	-13	-43.19	-70.49	-63.59	1.15	10.69	H
	3328	-55.18	-13	-42.18	-70.78	-63.79	1.33	12.09	H
	4160	-51.04	-13	-38.04	-69.81	-60.19	1.46	12.77	H
									H
									H
									H
	1664	-61.21	-13	-48.21	-70.75	-66.86	0.93	8.72	V
	2496	-55.76	-13	-42.76	-70.27	-63.16	1.15	10.69	V
	3328	-54.39	-13	-41.39	-70.45	-63.00	1.33	12.09	V
	4160	-48.19	-13	-35.19	-67.06	-57.34	1.46	12.77	V
									V
									V
									V



Highest	1680	-60.62	-13	-47.62	-70.81	-66.32	0.93	8.78	H
	2518	-56.59	-13	-43.59	-70.88	-64.01	1.15	10.72	H
	3360	-55.64	-13	-42.64	-71.15	-64.32	1.33	12.16	H
									H
									H
									H
									H
	1680	-60.78	-13	-47.78	-70.32	-66.48	0.93	8.78	V
	2518	-56.05	-13	-43.05	-70.51	-63.47	1.15	10.72	V
	3360	-54.80	-13	-41.80	-70.75	-63.48	1.33	12.16	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	5028	-50.62	-25	-25.62	-72.29	-61.64	1.62	12.64	H
	7542	-46.04	-25	-21.04	-72.37	-55.15	2.00	11.11	H
	10062	-42.56	-25	-17.56	-71.75	-51.41	2.40	11.25	H
									H
									H
									H
									H
	5028	-51.10	-25	-26.10	-72.36	-62.12	1.62	12.64	V
	7542	-45.68	-25	-20.68	-71.97	-54.79	2.00	11.11	V
	10062	-41.47	-25	-16.47	-71.32	-50.32	2.40	11.25	V
									V
									V
									V
									V
Middle	5076	-51.16	-25	-26.16	-72.85	-62.24	1.63	12.71	H
	7620	-46.25	-25	-21.25	-72.31	-55.37	2.01	11.12	H
	10161	-42.27	-25	-17.27	-71.83	-51.04	2.40	11.17	H
									H
									H
									H
									H
	5076	-50.82	-25	-25.82	-72.17	-61.90	1.63	12.71	V
	7620	-46.20	-25	-21.20	-72.19	-55.32	2.01	11.12	V
	10161	-41.72	-25	-16.72	-71.73	-50.49	2.40	11.17	V
									V
									V
									V
									V



Highest	5130	-50.81	-25	-25.81	-72.51	-61.95	1.64	12.78	H
	7692	-45.49	-25	-20.49	-71.55	-54.61	2.02	11.14	H
	10260	-41.47	-25	-16.47	-71.41	-50.17	2.39	11.09	H
									H
									H
									H
									H
	5130	-51.46	-25	-26.46	-72.9	-62.60	1.64	12.78	V
	7692	-45.85	-25	-20.85	-71.74	-54.97	2.02	11.14	V
	10260	-41.36	-25	-16.36	-71.53	-50.06	2.39	11.09	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 / 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	1400	-57.71	-13.00	-44.71	-69.02	-62.36	0.84	7.64	H
	2104	-55.79	-13.00	-42.79	-70.05	-62.72	1.06	10.15	H
	2808	-55.82	-13.00	-42.82	-70.72	-63.52	1.22	11.07	H
									H
									H
									H
									H
	1400	-58.91	-13.00	-45.91	-68.99	-63.56	0.84	7.64	V
	2104	-56.93	-13.00	-43.93	-70.08	-63.86	1.06	10.15	V
	2808	-55.98	-13.00	-42.98	-70.83	-63.68	1.22	11.07	V
									V
									V
									V
									V
Middle	1416	-58.81	-13.00	-45.81	-70.05	-63.53	0.85	7.71	H
	2120	-55.90	-13.00	-42.90	-70.42	-62.85	1.07	10.17	H
	2832	-55.49	-13.00	-42.49	-70.47	-63.21	1.23	11.10	H
									H
									H
									H
									H
	1416	-59.79	-13.00	-46.79	-69.82	-64.51	0.85	7.71	V
	2120	-57.16	-13.00	-44.16	-70.55	-64.11	1.07	10.17	V
	2832	-55.95	-13.00	-42.95	-70.90	-63.67	1.23	11.10	V
									V
									V
									V
									V



Highest	1424	-57.83	-13.00	-44.83	-69.00	-62.58	0.85	7.75	H
	2144	-55.33	-13.00	-42.33	-70.24	-62.31	1.07	10.20	H
	2856	-55.62	-13.00	-42.62	-70.68	-63.36	1.24	11.13	H
									H
									H
									H
									H
	1424	-59.35	-13.00	-46.35	-69.33	-64.10	0.85	7.75	V
	2144	-56.27	-13.00	-43.27	-70.01	-63.25	1.07	10.20	V
	2856	-55.56	-13.00	-42.56	-70.63	-63.30	1.24	11.13	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	-60.28	-42.15	-18.13	-70.53	-65.57	0.89	8.33	H
	2344	-56.32	-13	-43.32	-71.07	-63.54	1.12	10.48	H
	3128	-55.08	-13	-42.08	-70.88	-63.24	1.29	11.61	H
									H
									H
									H
									H
	1560	-60.68	-42.15	-18.53	-70.29	-65.97	0.89	8.33	V
	2344	-56.34	-13	-43.34	-70.72	-63.56	1.12	10.48	V
	3128	-54.58	-13	-41.58	-70.76	-62.74	1.29	11.61	V
									V
									V
									V
									V
Middle	1568	-60.13	-42.15	-17.98	-70.33	-65.45	0.89	8.36	H
	2352	-56.31	-13	-43.31	-71.00	-63.54	1.12	10.49	H
	3136	-55.42	-13	-42.42	-71.23	-63.60	1.29	11.63	H
									H
									H
									H
									H
	1568	-60.64	-42.15	-18.49	-70.25	-65.96	0.89	8.36	V
	2352	-56.50	-13	-43.50	-70.86	-63.73	1.12	10.49	V
	3136	-54.80	-13	-41.80	-71.00	-62.98	1.29	11.63	V
									V
									V
									V
									V



Highest	1576	-60.51	-42.15	-18.36	-70.64	-65.85	0.90	8.39	H
	2360	-56.64	-13	-43.64	-71.28	-63.87	1.12	10.50	H
	3144	-55.07	-13	-42.07	-70.89	-63.27	1.30	11.65	H
									H
									H
									H
									H
	1576	-60.49	-42.15	-18.34	-70.09	-65.83	0.90	8.39	V
	2360	-56.27	-13	-43.27	-70.63	-63.50	1.12	10.50	V
	3144	-55.04	-13	-42.04	-71.27	-63.24	1.30	11.65	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	1576	-60.46	-42.15	-18.31	-70.59	-65.80	0.90	8.39	H
	2360	-56.37	-13	-43.37	-71.01	-63.60	1.12	10.50	H
	3144	-54.93	-13	-41.93	-70.75	-63.13	1.30	11.65	H
									H
									H
									H
									H
	1576	-60.77	-42.15	-18.62	-70.37	-66.11	0.90	8.39	V
	2360	-56.59	-13	-43.59	-70.95	-63.82	1.12	10.50	V
	3144	-55.11	-13	-42.11	-71.34	-63.31	1.30	11.65	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	5021	-50.61	-25	-25.61	-72.28	-61.62	1.62	12.63	H
	7532	-46.08	-25	-21.08	-72.44	-55.19	1.99	11.11	H
	10042	-42.92	-25	-17.92	-72.03	-51.79	2.40	11.27	H
									H
									H
									H
									H
	5021	-51.11	-25	-26.11	-72.36	-62.12	1.62	12.63	V
	7532	-46.06	-25	-21.06	-72.39	-55.17	1.99	11.11	V
	10042	-41.99	-25	-16.99	-71.81	-50.86	2.40	11.27	V
									V
									V
									V
									V
Middle	5195	-50.71	-25	-25.71	-72.44	-61.92	1.66	12.87	H
	7793	-45.89	-25	-20.89	-71.93	-55.02	2.03	11.16	H
	10390	-41.27	-25	-16.27	-71.7	-49.87	2.39	10.99	H
									H
									H
									H
									H
	5195	-51.05	-25	-26.05	-72.61	-62.26	1.66	12.87	V
	7793	-46.35	-25	-21.35	-72.1	-55.48	2.03	11.16	V
	10390	-41.55	-25	-16.55	-71.93	-50.15	2.39	10.99	V
									V
									V
									V
									V



Highest	5370	-49.92	-25	-24.92	-72.23	-61.33	1.71	13.12	H
	8054	-44.98	-25	-19.98	-72.08	-54.23	2.06	11.31	H
	10738	-42.35	-25	-17.35	-73.95	-50.74	2.51	10.90	H
									H
									H
									H
									H
	5370	-49.67	-25	-24.67	-71.6	-61.08	1.71	13.12	V
	8054	-44.87	-25	-19.87	-71.96	-54.12	2.06	11.31	V
	10738	-42.39	-25	-17.39	-73.76	-50.78	2.51	10.90	V
									V
									V
									V
									V

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