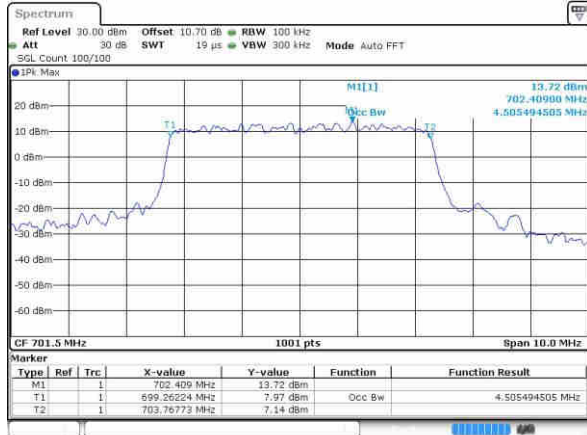




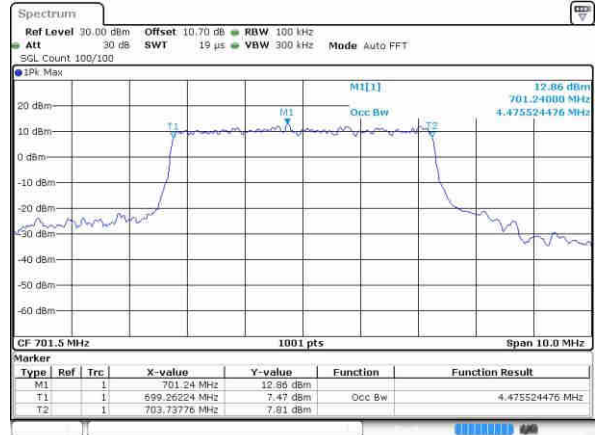
LTE Band 12

Lowest Channel / 5MHz / QPSK



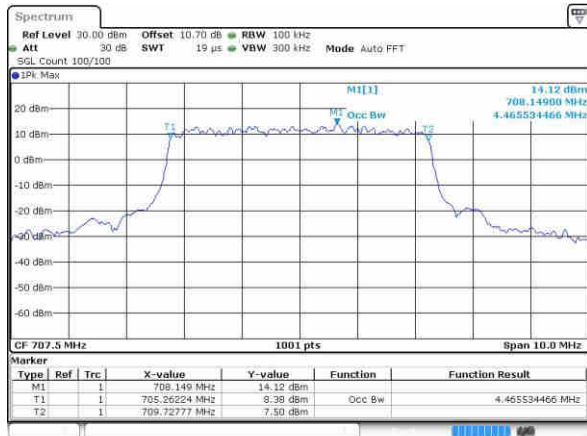
Date: 17 JAN 2019 15:03:43

Lowest Channel / 5MHz / 16QAM



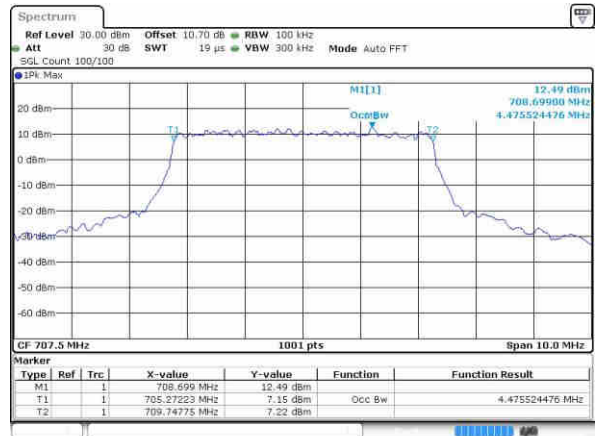
Date: 17 JAN 2019 15:03:54

Middle Channel / 5MHz / QPSK



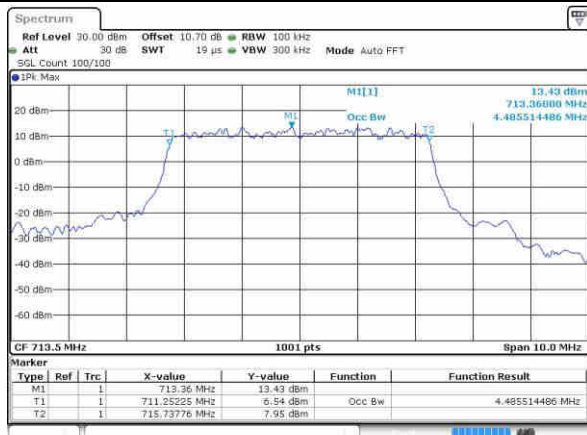
Date: 17 JAN 2019 15:10:40

Middle Channel / 5MHz / 16QAM



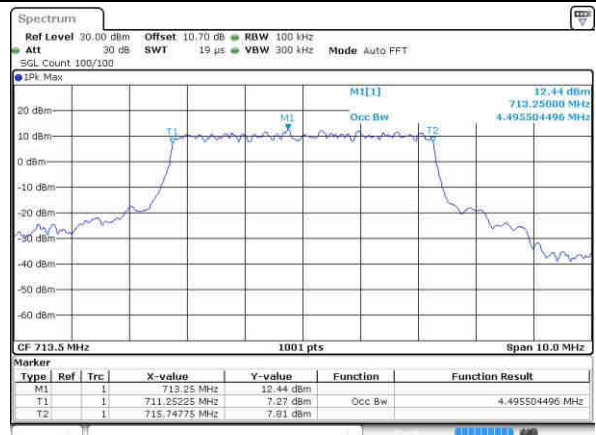
Date: 17 JAN 2019 15:10:29

Highest Channel / 5MHz / QPSK



Date: 17 JAN 2019 15:13:15

Highest Channel / 5MHz / 16QAM

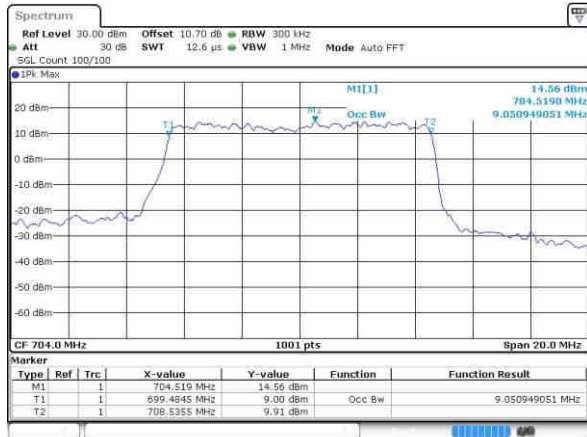


Date: 17 JAN 2019 15:13:26



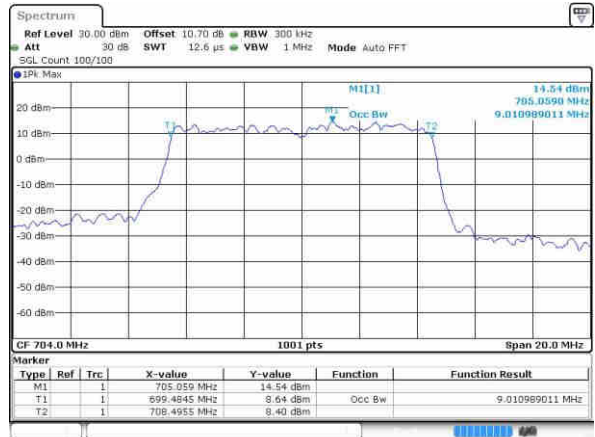
LTE Band 12

Lowest Channel / 10MHz / QPSK



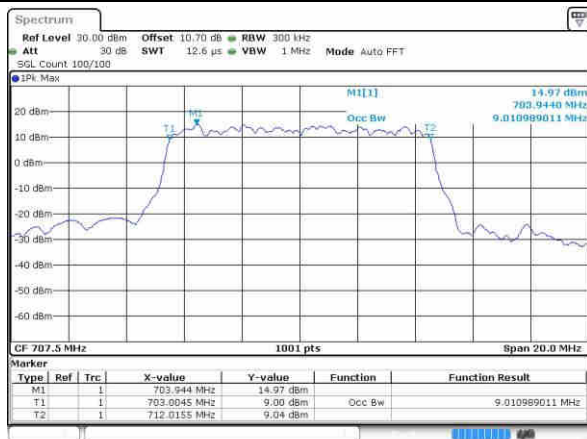
Date: 17 JAN 2019 15:20:01

Lowest Channel / 10MHz / 16QAM



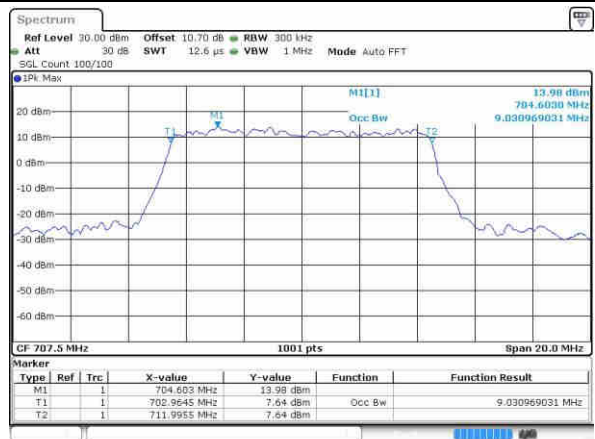
Date: 17 JAN 2019 15:20:12

Middle Channel / 10MHz / QPSK



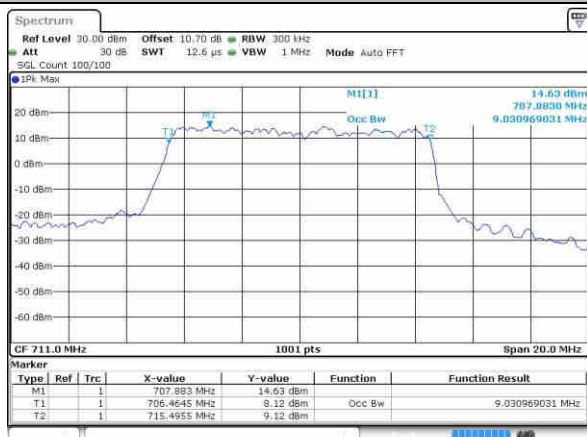
Date: 17 JAN 2019 15:26:59

Middle Channel / 10MHz / 16QAM



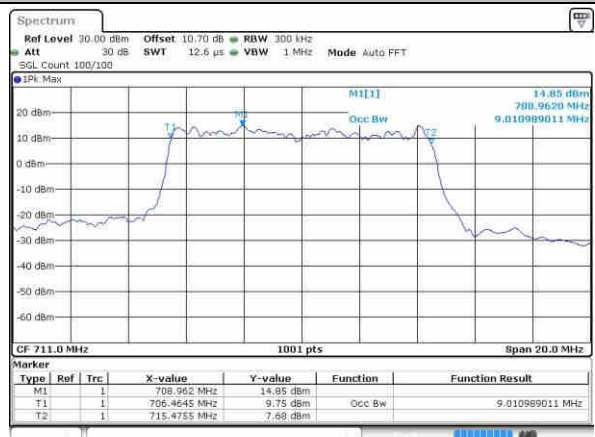
Date: 17 JAN 2019 15:26:47

Highest Channel / 10MHz / QPSK

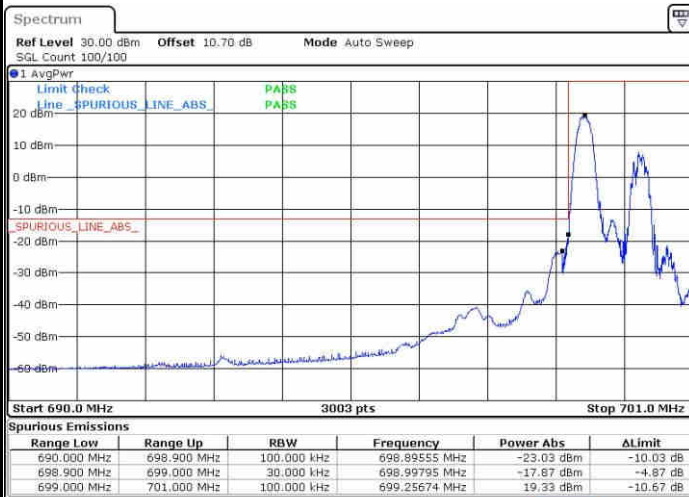
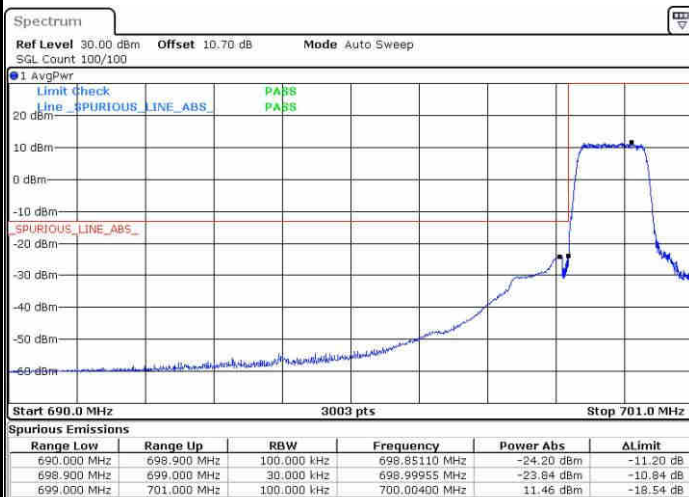


Date: 17 JAN 2019 15:29:33

Highest Channel / 10MHz / 16QAM



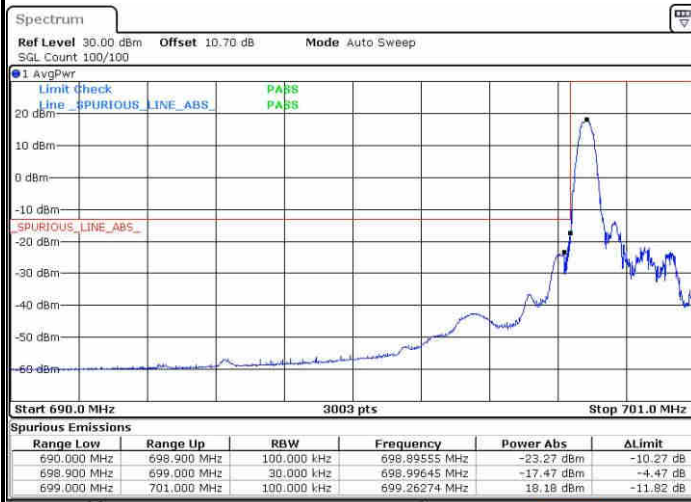
Date: 17 JAN 2019 15:29:45

**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 12 / 1.4MHz / 16QAM

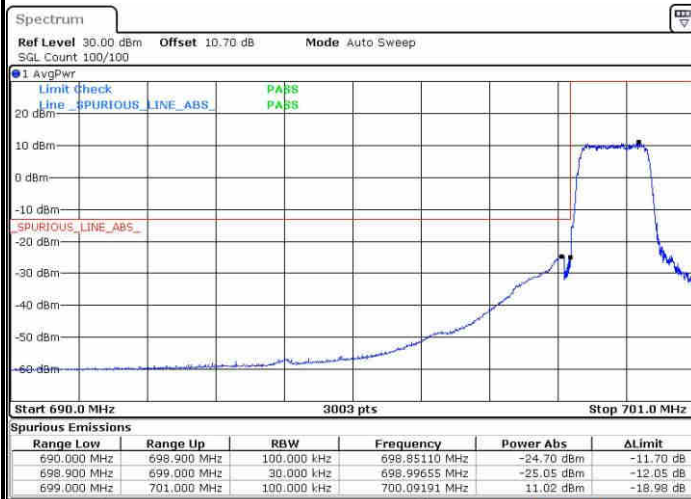
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



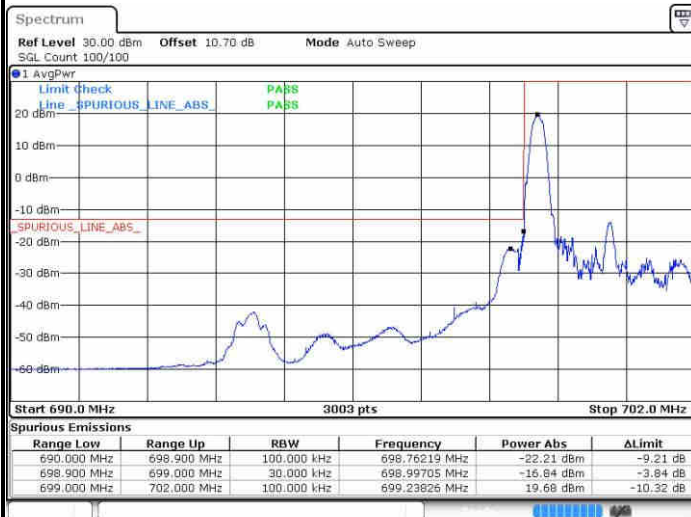
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



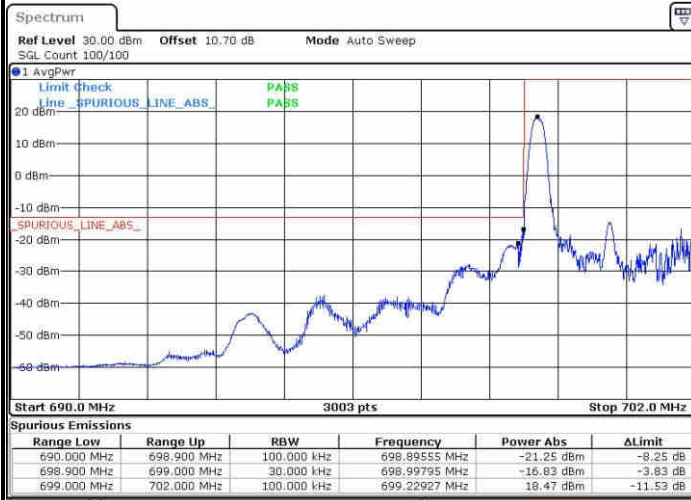
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



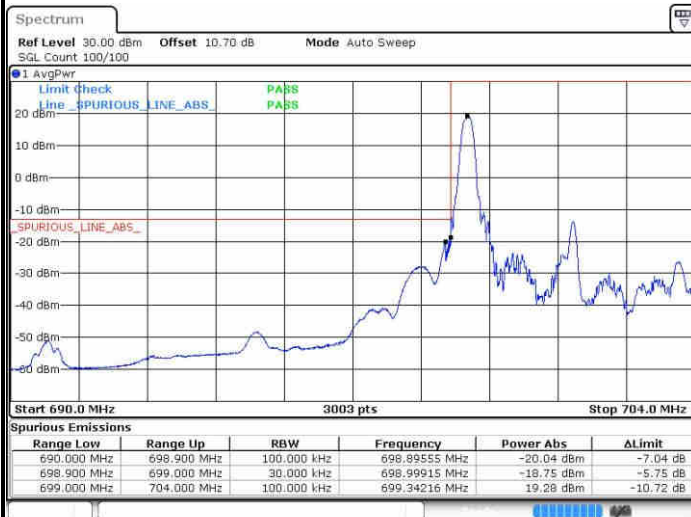
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



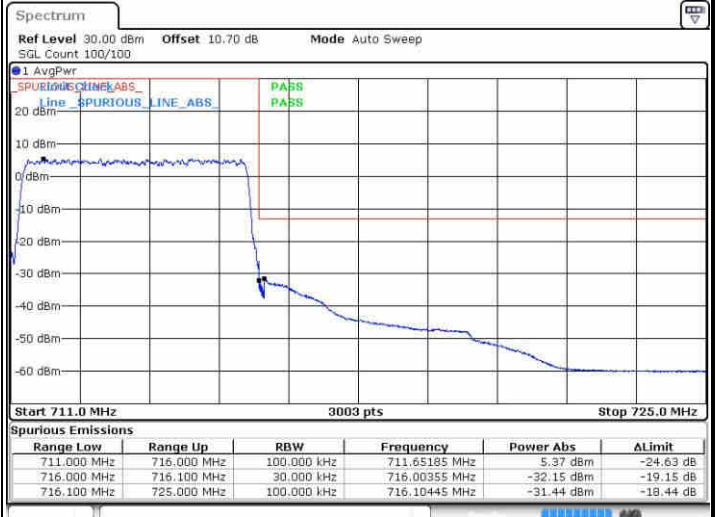
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



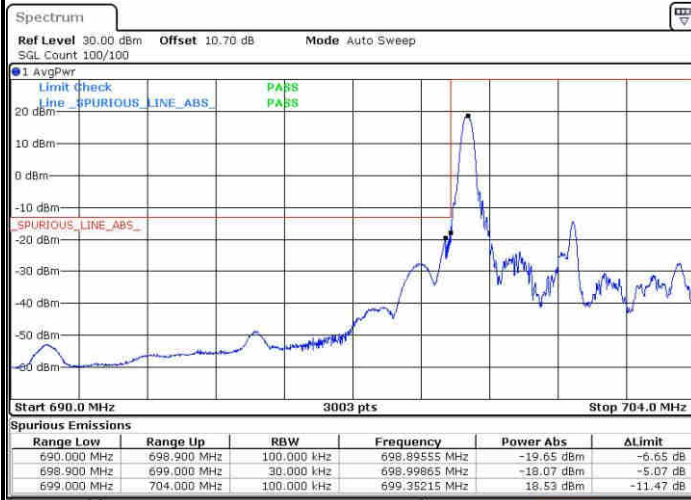
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



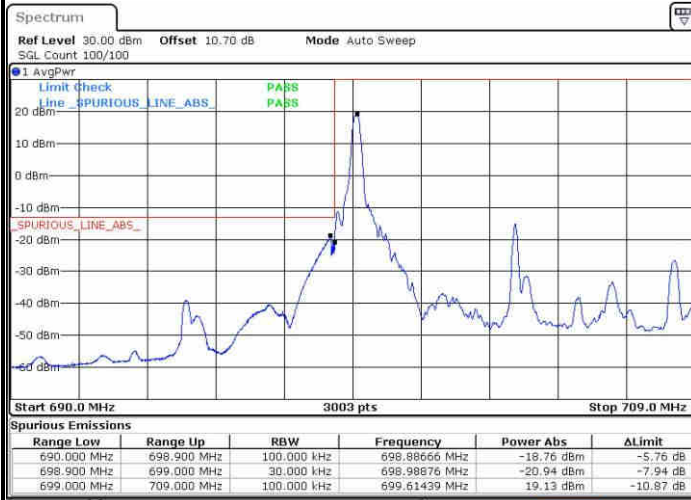
Highest Band Edge / Full RB



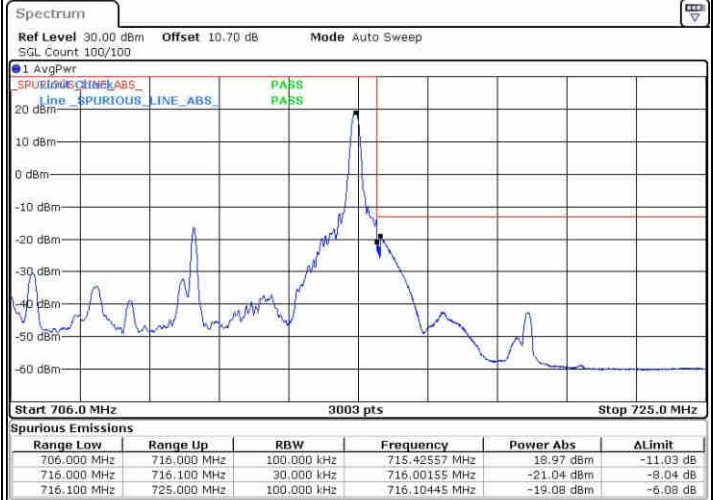


LTE Band 12 / 10MHz / QPSK

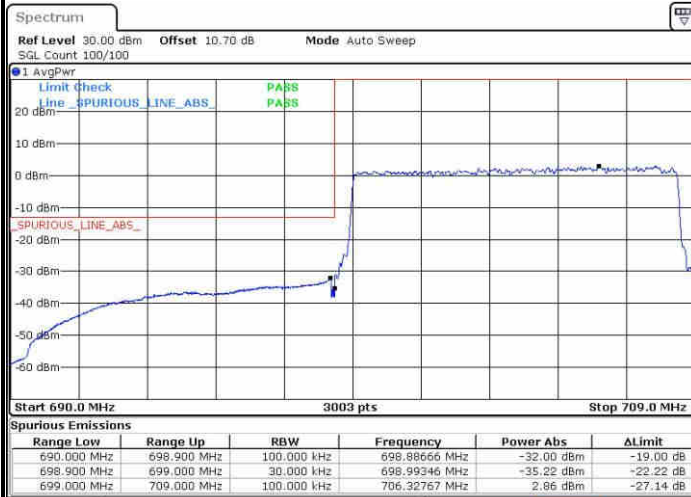
Lowest Band Edge / 1 RB



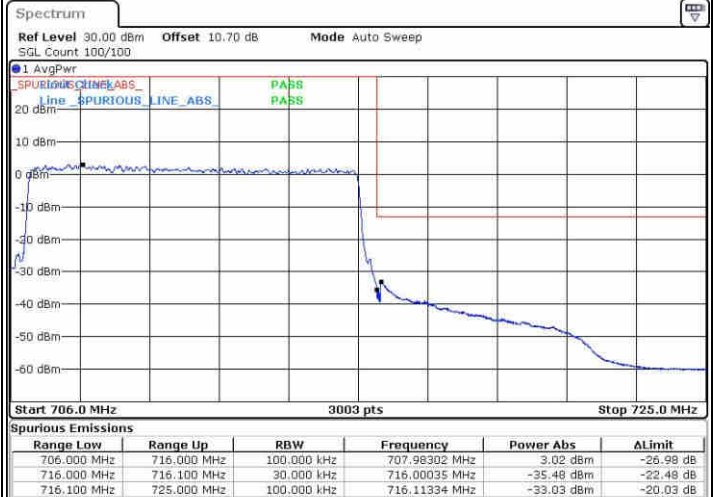
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



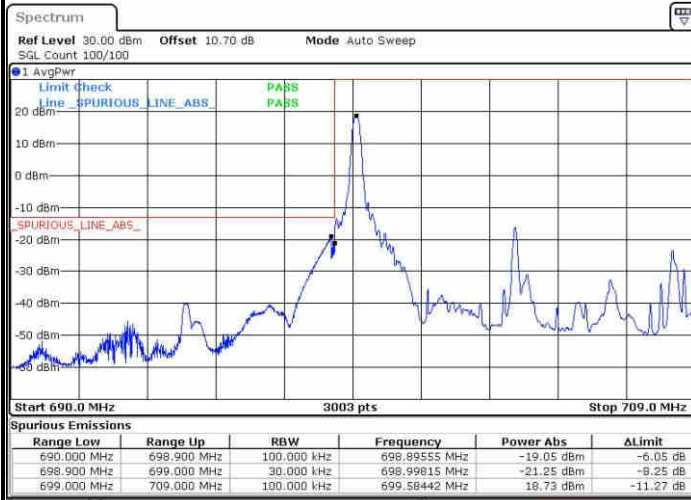
Highest Band Edge / Full RB



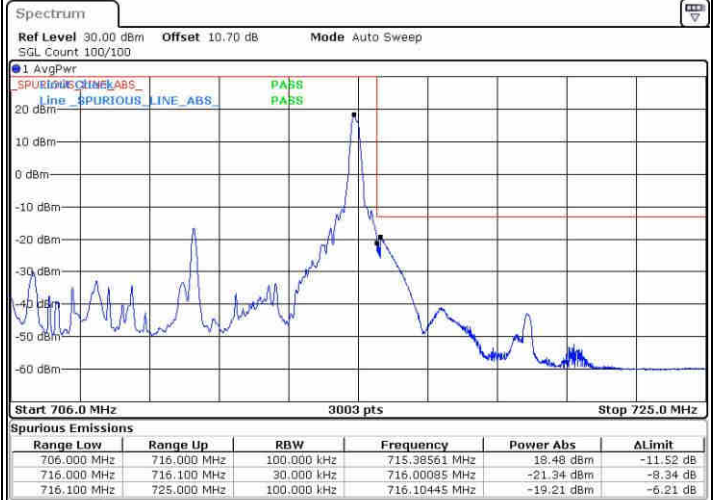


LTE Band 12 / 10MHz / 16QAM

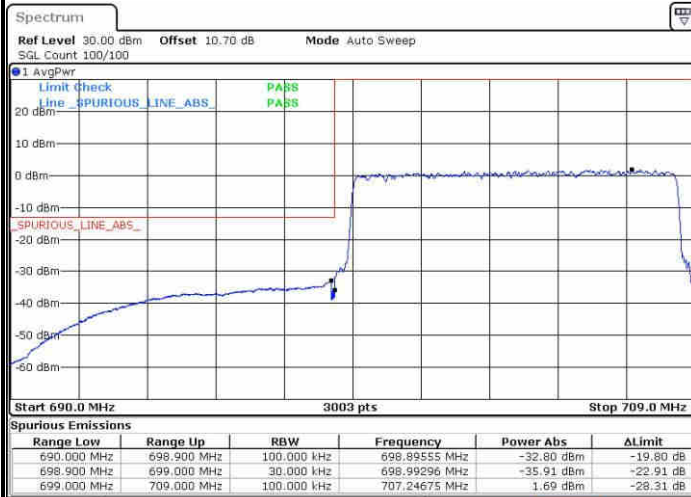
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

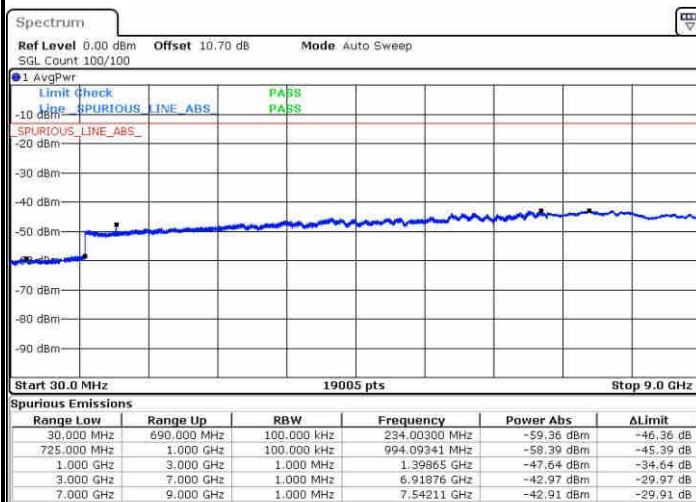




Conducted Spurious Emission

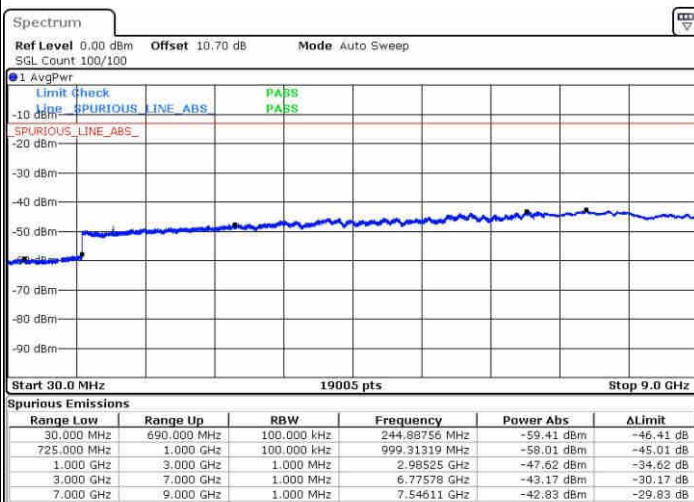
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



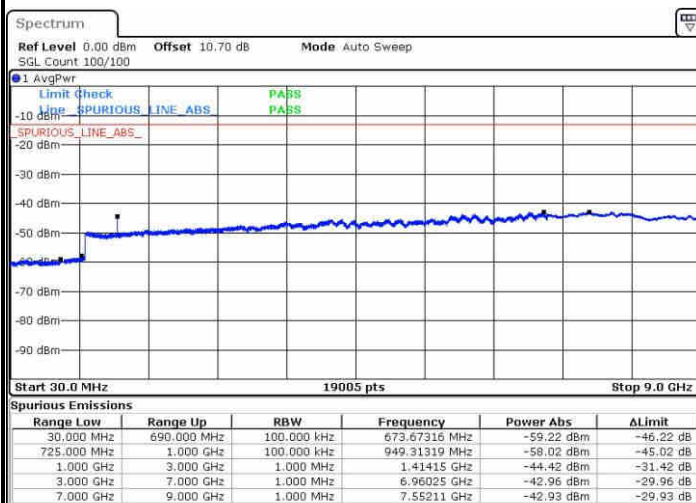
Date: 17.JAN.2019 15:41:54

Lowest Channel / 16QAM



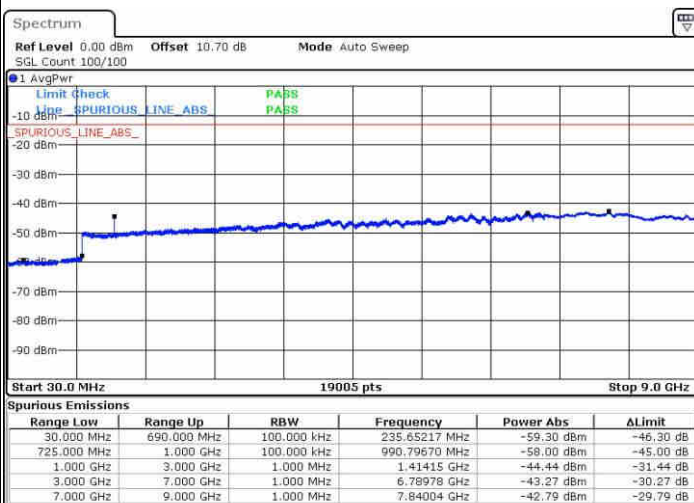
Date: 17.JAN.2019 15:42:55

Middle Channel / QPSK



Date: 17.JAN.2019 15:45:41

Middle Channel / 16QAM

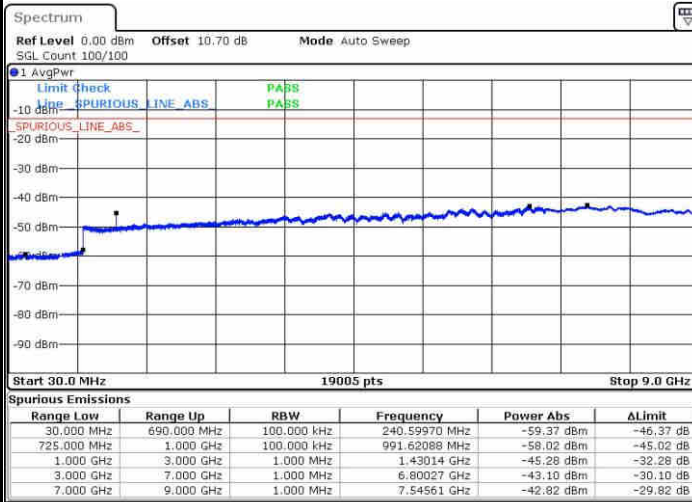


Date: 17.JAN.2019 15:44:40



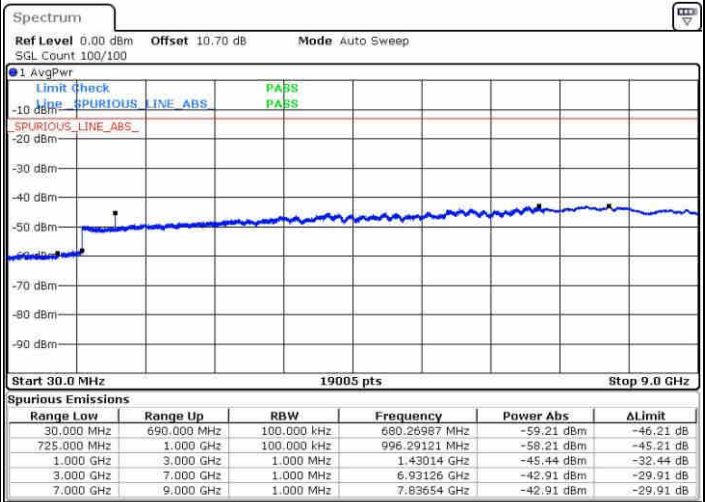
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 17.JAN.2019 16:16:19

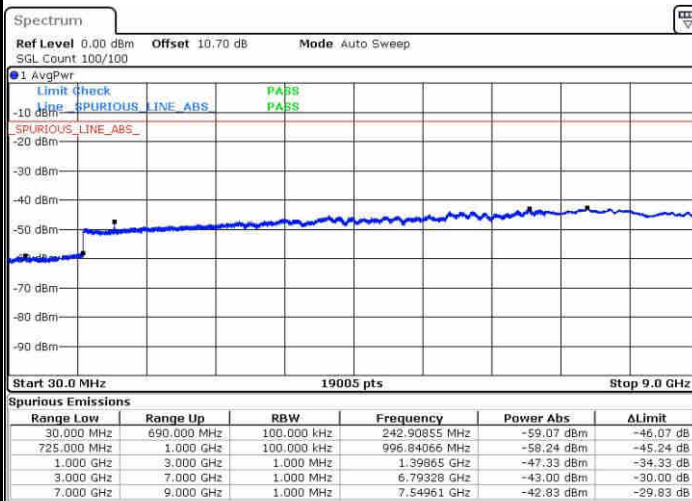
Highest Channel / 16QAM



Date: 17.JAN.2019 16:17:19

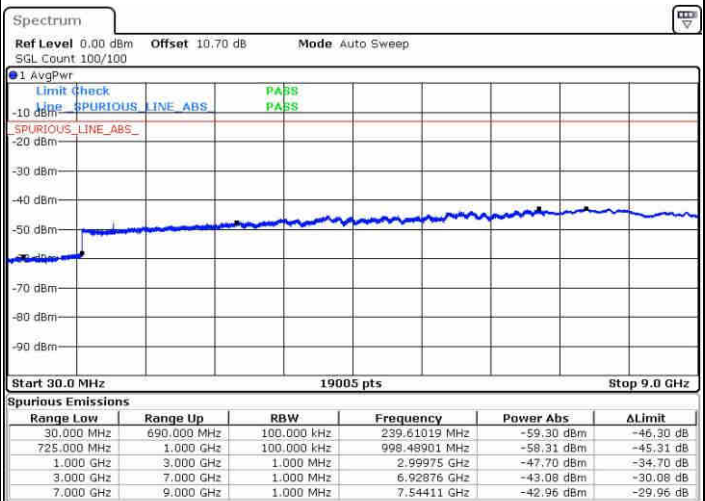
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 17.JAN.2019 14:53:00

Lowest Channel / 16QAM

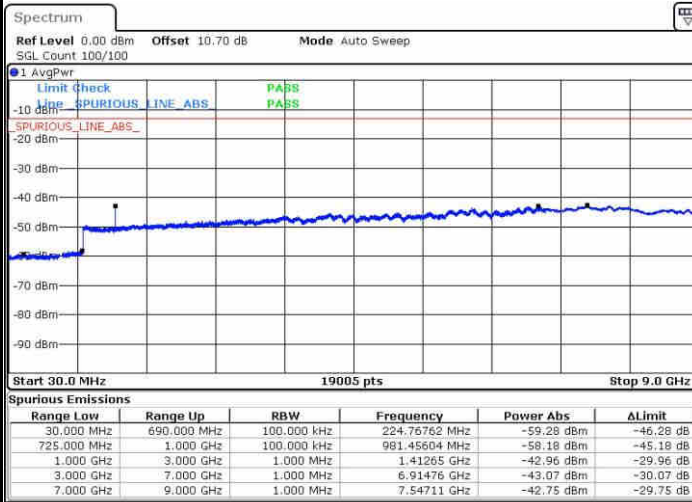


Date: 17.JAN.2019 14:54:00



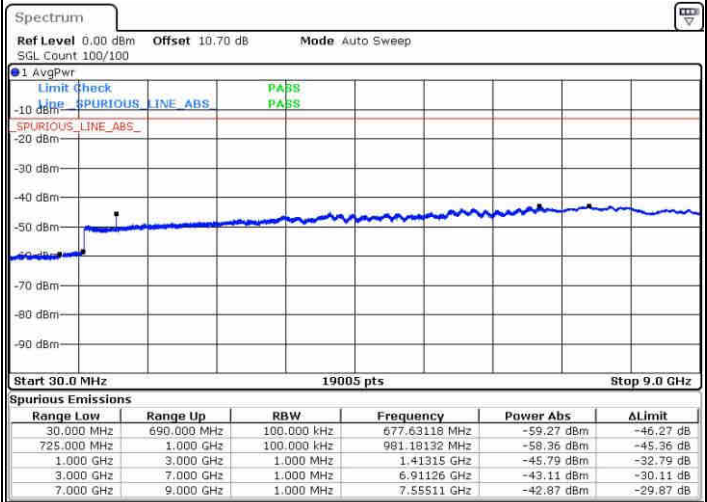
LTE Band 12 / 3MHz

Middle Channel / QPSK



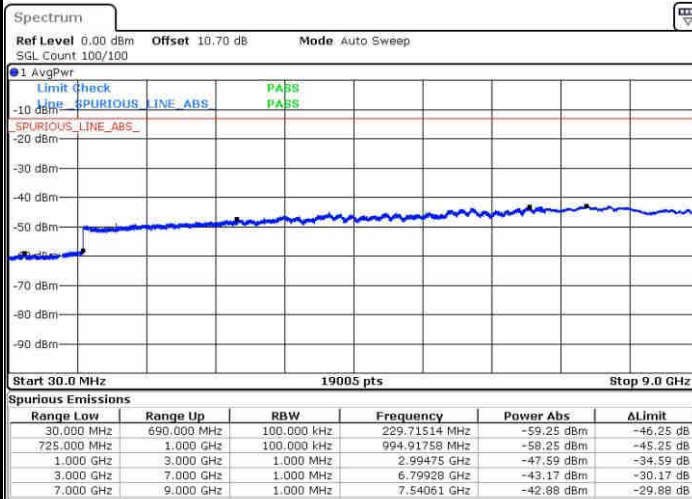
Date: 17.JAN.2019 14:56:46

Middle Channel / 16QAM



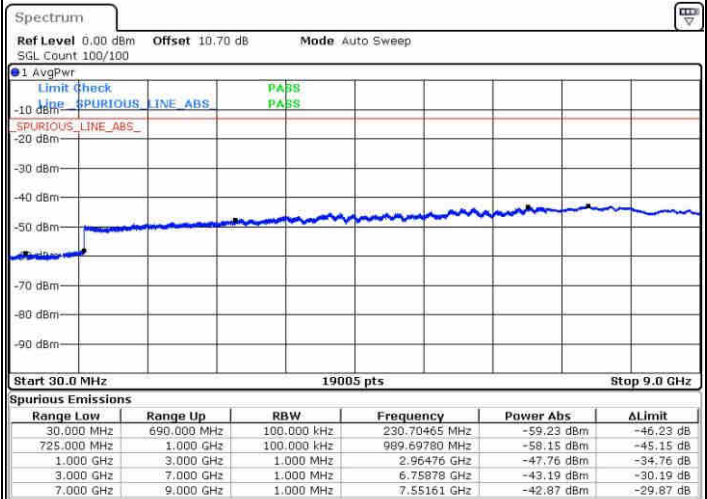
Date: 17.JAN.2019 14:55:45

Highest Channel / QPSK



Date: 17.JAN.2019 15:02:31

Highest Channel / 16QAM

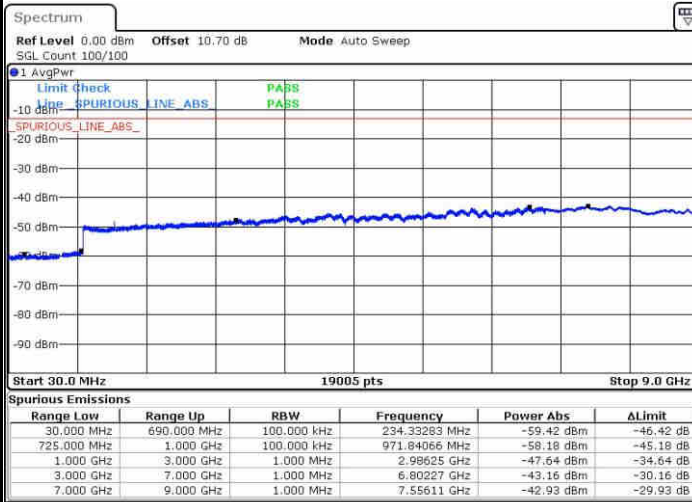


Date: 17.JAN.2019 15:03:31



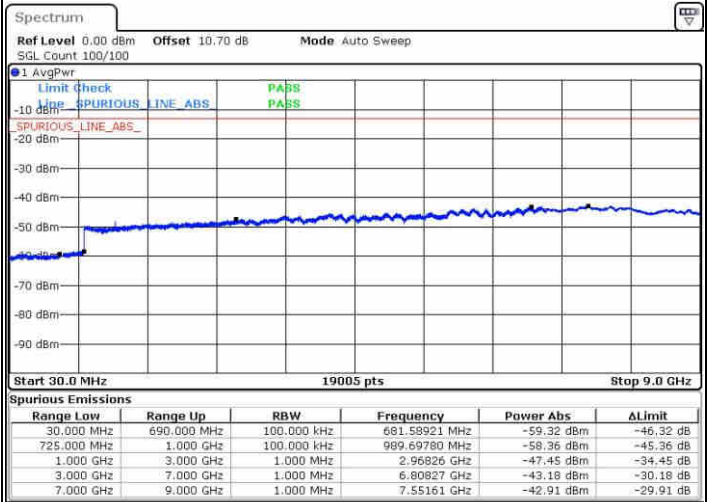
LTE Band 12 / 5MHz

Lowest Channel / QPSK



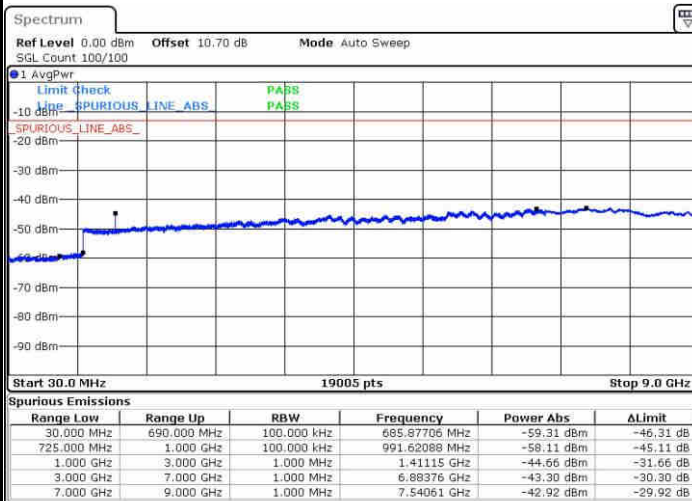
Date: 17.JAN.2019 15:09:17

Lowest Channel / 16QAM



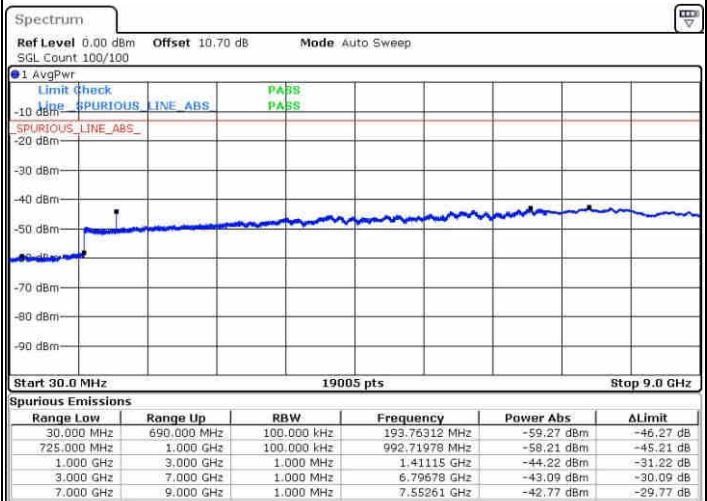
Date: 17.JAN.2019 15:10:17

Middle Channel / QPSK



Date: 17.JAN.2019 15:13:03

Middle Channel / 16QAM

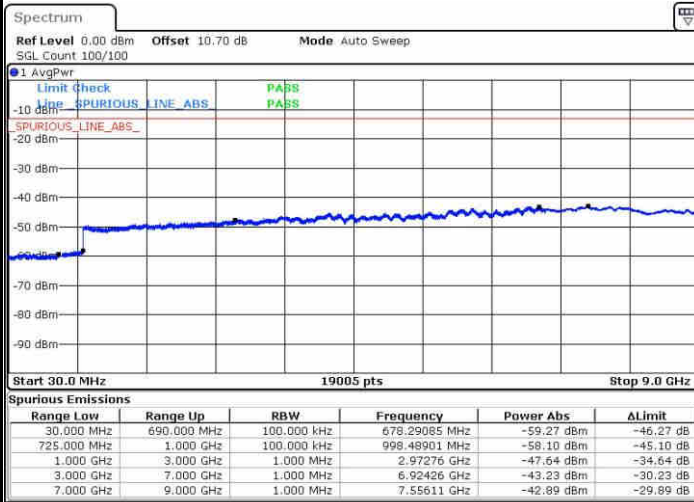


Date: 17.JAN.2019 15:12:03



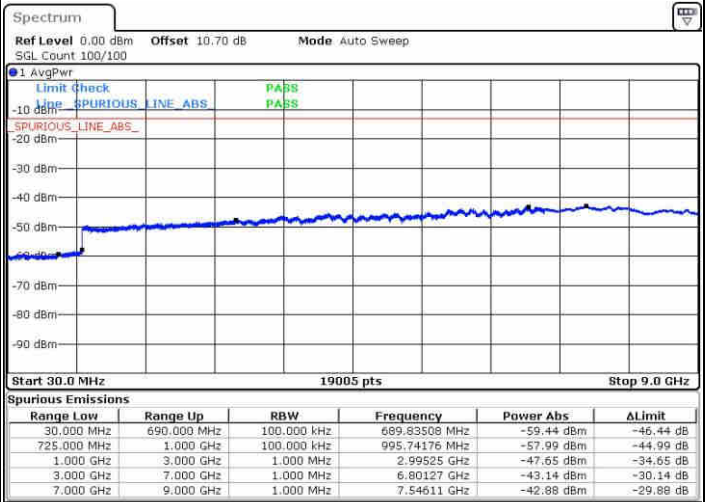
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 17.JAN.2019 15:19:49

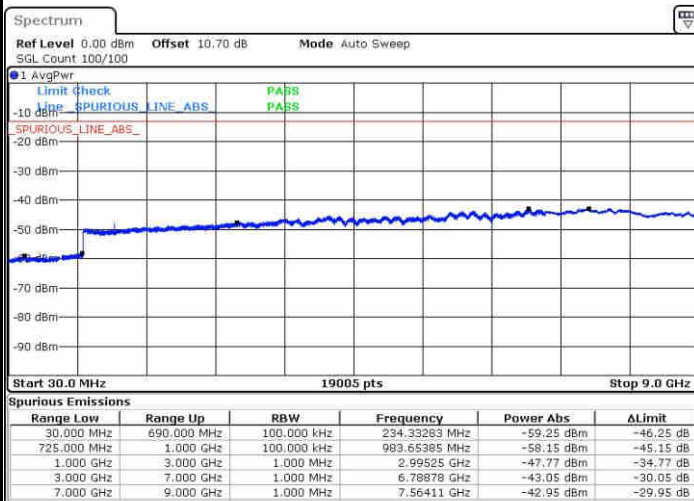
Highest Channel / 16QAM



Date: 17.JAN.2019 15:18:49

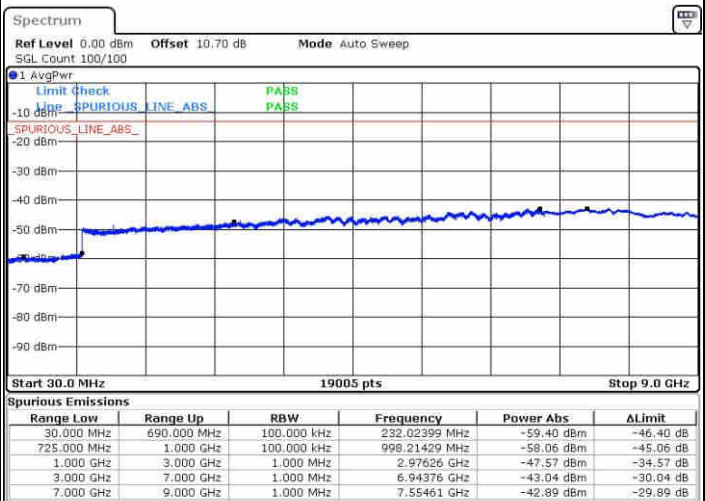
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 17.JAN.2019 15:25:36

Lowest Channel / 16QAM

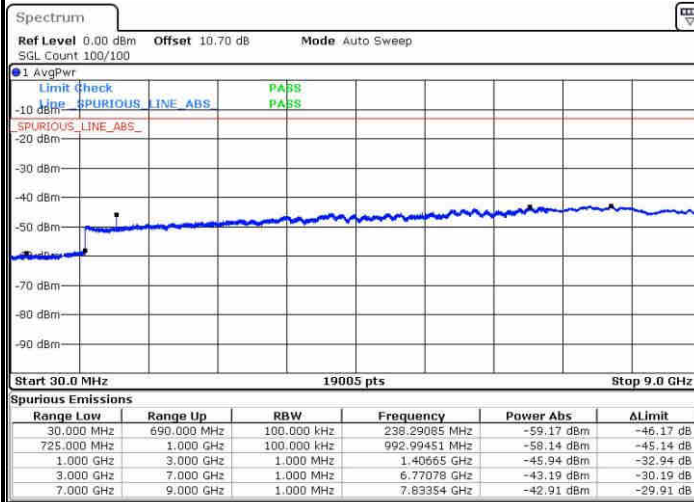


Date: 17.JAN.2019 15:26:36



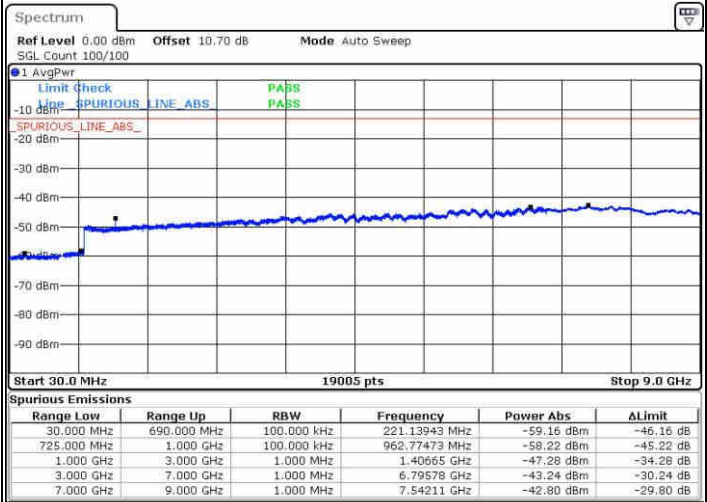
LTE Band 12 / 10MHz

Middle Channel / QPSK



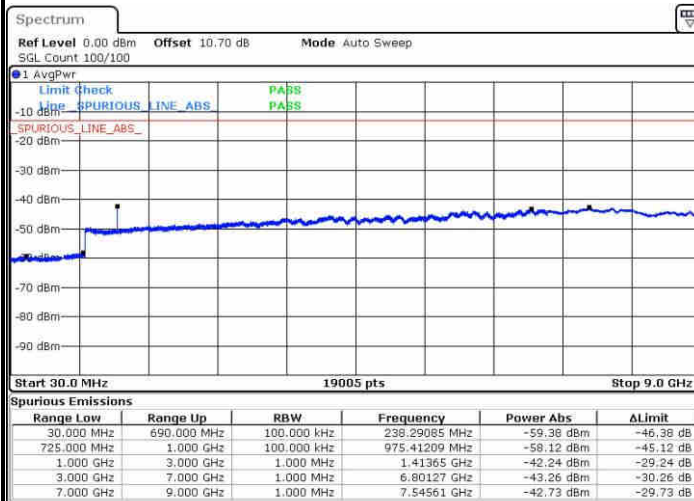
Date: 17.JAN.2019 15:29:22

Middle Channel / 16QAM



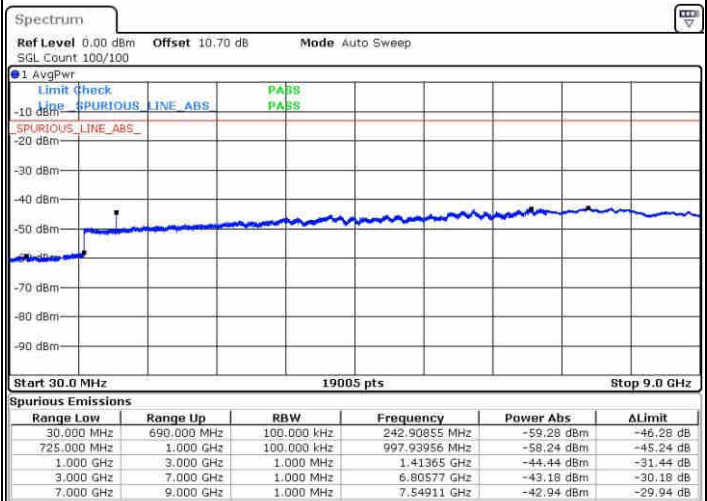
Date: 17.JAN.2019 15:28:22

Highest Channel / QPSK



Date: 17.JAN.2019 15:35:08

Highest Channel / 16QAM



Date: 17.JAN.2019 15:36:08

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0114	PASS
40	Normal Voltage	0.0124	
30	Normal Voltage	0.0099	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0137	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0127	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



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

ERP/EIRP

<Ant. 1>

LTE Band 2 / 1.4MHz (Average) (GT - LC = 2.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.37	0.1726	24.87	0.3069
Middle		1	0	21.88	0.1542	24.38	0.2742
Highest		1	0	21.87	0.1538	24.37	0.2735
Lowest	16QAM	1	0	21.38	0.1374	23.88	0.2443
Middle		1	0	21.22	0.1324	23.72	0.2355
Highest		1	0	21.23	0.1327	23.73	0.2360
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = 2.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.34	0.1714	24.84	0.3048
Middle		1	0	21.92	0.1556	24.42	0.2767
Highest		1	0	21.92	0.1556	24.42	0.2767
Lowest	16QAM	1	0	21.43	0.1390	23.93	0.2472
Middle		1	0	21.16	0.1306	23.66	0.2323
Highest		1	0	21.25	0.1334	23.75	0.2371
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 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	0	22.32	0.1706	24.82	0.3034
Middle		1	0	21.89	0.1545	24.39	0.2748
Highest		1	0	21.76	0.1500	24.26	0.2667
Lowest	16QAM	1	0	21.35	0.1365	23.85	0.2427
Middle		1	0	21.19	0.1315	23.69	0.2339
Highest		1	0	21.21	0.1321	23.71	0.2350
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 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	0	22.30	0.1698	24.80	0.3020
Middle		1	0	22.00	0.1585	24.50	0.2818
Highest		1	0	21.76	0.1500	24.26	0.2667
Lowest	16QAM	1	0	21.36	0.1368	23.86	0.2432
Middle		1	0	21.26	0.1337	23.76	0.2377
Highest		1	0	21.16	0.1306	23.66	0.2323
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 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	0	22.31	0.1702	24.81	0.3027
Middle		1	0	22.01	0.1589	24.51	0.2825
Highest		1	0	22.16	0.1644	24.66	0.2924
Lowest	16QAM	1	0	21.71	0.1483	24.21	0.2636
Middle		1	0	21.34	0.1361	23.84	0.2421
Highest		1	0	21.45	0.1396	23.95	0.2483
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 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	0	22.37	0.1726	24.87	0.3069
Middle		1	0	22.04	0.1600	24.54	0.2844
Highest		1	0	21.94	0.1563	24.44	0.2780
Lowest	16QAM	1	0	21.48	0.1406	23.98	0.2500
Middle		1	0	21.26	0.1337	23.76	0.2377
Highest		1	0	21.32	0.1355	23.82	0.2410
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = 2.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.72	0.1486	24.22	0.2642
Middle		1	0	21.87	0.1538	24.37	0.2735
Highest		1	0	21.95	0.1567	24.45	0.2786
Lowest	16QAM	1	0	20.94	0.1242	23.44	0.2208
Middle		1	0	20.94	0.1242	23.44	0.2208
Highest		1	0	21.21	0.1321	23.71	0.2350
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = 2.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.61	0.1449	24.11	0.2576
Middle		1	0	21.83	0.1524	24.33	0.2710
Highest		1	0	21.89	0.1545	24.39	0.2748
Lowest	16QAM	1	0	20.85	0.1216	23.35	0.2163
Middle		1	0	21.01	0.1262	23.51	0.2244
Highest		1	0	21.27	0.1340	23.77	0.2382
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 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	0	21.62	0.1452	24.12	0.2582
Middle		1	0	21.72	0.1486	24.22	0.2642
Highest		1	0	22.04	0.1600	24.54	0.2844
Lowest	16QAM	1	0	20.82	0.1208	23.32	0.2148
Middle		1	0	21.02	0.1265	23.52	0.2249
Highest		1	0	21.32	0.1355	23.82	0.2410
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 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	0	21.74	0.1493	24.24	0.2655
Middle		1	0	21.80	0.1514	24.30	0.2692
Highest		1	0	21.99	0.1581	24.49	0.2812
Lowest	16QAM	1	0	20.92	0.1236	23.42	0.2198
Middle		1	0	20.94	0.1242	23.44	0.2208
Highest		1	0	21.21	0.1321	23.71	0.2350
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 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	0	21.57	0.1435	24.07	0.2553
Middle		1	0	21.73	0.1489	24.23	0.2649
Highest		1	0	22.04	0.1600	24.54	0.2844
Lowest	16QAM	1	0	20.85	0.1216	23.35	0.2163
Middle		1	0	20.96	0.1247	23.46	0.2218
Highest		1	0	21.19	0.1315	23.69	0.2339
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 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	0	21.76	0.1500	24.26	0.2667
Middle		1	0	21.92	0.1556	24.42	0.2767
Highest		1	0	22.06	0.1607	24.56	0.2858
Lowest	16QAM	1	0	21.01	0.1262	23.51	0.2244
Middle		1	0	21.13	0.1297	23.63	0.2307
Highest		1	0	21.37	0.1371	23.87	0.2438
Limit	EIRP < 1W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -1.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.51	0.1782	18.86	0.0769
Middle		1	0	22.59	0.1816	18.94	0.0783
Highest		1	0	22.35	0.1718	18.70	0.0741
Lowest	16QAM	1	0	21.78	0.1507	18.13	0.0650
Middle		1	0	21.87	0.1538	18.22	0.0664
Highest		1	0	21.71	0.1483	18.06	0.0640
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -1.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.38	0.1730	18.73	0.0746
Middle		1	0	22.66	0.1845	19.01	0.0796
Highest		1	0	22.46	0.1762	18.81	0.0760
Lowest	16QAM	1	0	21.74	0.1493	18.09	0.0644
Middle		1	0	21.83	0.1524	18.18	0.0658
Highest		1	0	21.67	0.1469	18.02	0.0634
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -1.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.56	0.1803	18.91	0.0778
Middle		1	0	22.68	0.1854	19.03	0.0800
Highest		1	0	22.28	0.1690	18.63	0.0729
Lowest	16QAM	1	0	21.72	0.1486	18.07	0.0641
Middle		1	0	21.92	0.1556	18.27	0.0671
Highest		1	0	21.60	0.1445	17.95	0.0624
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 10MHz (Average) (GT - LC = -1.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.52	0.1786	18.87	0.0771
Middle		1	0	22.70	0.1862	19.05	0.0804
Highest		1	0	22.32	0.1706	18.67	0.0736
Lowest	16QAM	1	0	21.74	0.1493	18.09	0.0644
Middle		1	0	21.79	0.1510	18.14	0.0652
Highest		1	0	21.67	0.1469	18.02	0.0634
Limit	ERP < 3W			Result		PASS	

**<Ant. 2>**

LTE Band 2 / 1.4MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	3	21.11	0.1291	22.61	0.1824
Middle		3	3	21.31	0.1352	22.81	0.1910
Highest		3	3	21.62	0.1452	23.12	0.2051
Lowest	16QAM	1	3	20.34	0.1081	21.84	0.1528
Middle		1	3	20.48	0.1117	21.98	0.1578
Highest		1	3	20.90	0.1230	22.40	0.1738
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.03	0.1268	22.53	0.1791
Middle		1	0	21.19	0.1315	22.69	0.1858
Highest		1	0	21.51	0.1416	23.01	0.2000
Lowest	16QAM	1	14	20.24	0.1057	21.74	0.1493
Middle		1	14	20.47	0.1114	21.97	0.1574
Highest		1	14	20.86	0.1219	22.36	0.1722
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.09	0.1285	22.59	0.1816
Middle		1	0	21.23	0.1327	22.73	0.1875
Highest		1	0	21.56	0.1432	23.06	0.2023
Lowest	16QAM	1	24	20.18	0.1042	21.68	0.1472
Middle		1	24	20.53	0.1130	22.03	0.1596
Highest		1	24	20.84	0.1213	22.34	0.1714
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.32	0.1355	22.82	0.1914
Middle		1	0	21.41	0.1384	22.91	0.1954
Highest		1	0	21.69	0.1476	23.19	0.2084
Lowest	16QAM	1	0	20.52	0.1127	22.02	0.1592
Middle		1	0	20.68	0.1169	22.18	0.1652
Highest		1	0	20.99	0.1256	22.49	0.1774
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.40	0.1380	22.90	0.1950
Middle		1	0	21.42	0.1387	22.92	0.1959
Highest		1	0	21.89	0.1545	23.39	0.2183
Lowest	16QAM	1	0	20.72	0.1180	22.22	0.1667
Middle		1	0	20.77	0.1194	22.27	0.1687
Highest		1	0	21.18	0.1312	22.68	0.1854
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.96	0.1570	23.46	0.2218
Middle		1	0	21.37	0.1371	22.87	0.1936
Highest		1	0	21.48	0.1406	22.98	0.1986
Lowest	16QAM	1	0	21.26	0.1337	22.76	0.1888
Middle		1	0	20.64	0.1159	22.14	0.1637
Highest		1	0	20.78	0.1197	22.28	0.1690
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	21.87	0.1538	23.37	0.2173
Middle		3	1	21.62	0.1452	23.12	0.2051
Highest		3	1	21.49	0.1409	22.99	0.1991
Lowest	16QAM	1	0	21.05	0.1274	22.55	0.1799
Middle		1	0	20.92	0.1236	22.42	0.1746
Highest		1	0	20.71	0.1178	22.21	0.1663
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.77	0.1503	23.27	0.2123
Middle		1	0	21.67	0.1469	23.17	0.2075
Highest		1	0	21.54	0.1426	23.04	0.2014
Lowest	16QAM	1	0	21.08	0.1282	22.58	0.1811
Middle		1	0	20.79	0.1199	22.29	0.1694
Highest		1	0	20.66	0.1164	22.16	0.1644
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.81	0.1517	23.31	0.2143
Middle		1	0	21.61	0.1449	23.11	0.2046
Highest		1	0	21.41	0.1384	22.91	0.1954
Lowest	16QAM	1	0	21.05	0.1274	22.55	0.1799
Middle		1	0	20.82	0.1208	22.32	0.1706
Highest		1	0	20.80	0.1202	22.30	0.1698
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.77	0.1503	23.27	0.2123
Middle		1	0	21.61	0.1449	23.11	0.2046
Highest		1	0	21.41	0.1384	22.91	0.1954
Lowest	16QAM	1	0	21.07	0.1279	22.57	0.1807
Middle		1	0	20.92	0.1236	22.42	0.1746
Highest		1	0	20.72	0.1180	22.22	0.1667
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.89	0.1545	23.39	0.2183
Middle		1	0	21.74	0.1493	23.24	0.2109
Highest		1	0	21.48	0.1406	22.98	0.1986
Lowest	16QAM	1	0	20.97	0.1250	22.47	0.1766
Middle		1	0	20.77	0.1194	22.27	0.1687
Highest		1	0	20.68	0.1169	22.18	0.1652
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = 1.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.97	0.1574	23.47	0.2223
Middle		1	0	21.77	0.1503	23.27	0.2123
Highest		1	0	21.61	0.1449	23.11	0.2046
Lowest	16QAM	1	0	21.12	0.1294	22.62	0.1828
Middle		1	0	20.97	0.1250	22.47	0.1766
Highest		1	0	20.86	0.1219	22.36	0.1722
Limit	EIRP < 1W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	0	22.49	0.1774	19.84	0.0964
Middle		3	0	22.26	0.1683	19.61	0.0914
Highest		3	0	22.23	0.1671	19.58	0.0908
Lowest	16QAM	1	5	21.72	0.1486	19.07	0.0807
Middle		1	5	21.65	0.1462	19.00	0.0794
Highest		1	5	21.52	0.1419	18.87	0.0771
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.33	0.1710	19.68	0.0929
Middle		1	0	22.52	0.1786	19.87	0.0971
Highest		1	0	22.30	0.1698	19.65	0.0923
Lowest	16QAM	1	0	21.60	0.1445	18.95	0.0785
Middle		1	0	21.81	0.1517	19.16	0.0824
Highest		1	0	21.66	0.1466	19.01	0.0796
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.45	0.1758	19.80	0.0955
Middle		1	0	22.39	0.1734	19.74	0.0942
Highest		1	0	22.35	0.1718	19.70	0.0933
Lowest	16QAM	1	0	21.59	0.1442	18.94	0.0783
Middle		1	0	21.80	0.1514	19.15	0.0822
Highest		1	0	21.64	0.1459	18.99	0.0793
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 10MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.36	0.1722	19.71	0.0935
Middle		1	0	22.54	0.1795	19.89	0.0975
Highest		1	0	22.26	0.1683	19.61	0.0914
Lowest	16QAM	1	25	21.73	0.1489	19.08	0.0809
Middle		1	25	21.52	0.1419	18.87	0.0771
Highest		1	25	21.55	0.1429	18.90	0.0776
Limit	ERP < 3W			Result		PASS	

**Radiated Spurious Emission**

<Ant. 1>

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	3700	-55.72	-13	-42.72	-73.29	-66.95	1.23	12.46	H
	5555	-51.24	-13	-38.24	-72.86	-62.73	1.80	13.29	H
	7403	-50.82	-13	-37.82	-76.85	-59.62	2.43	11.24	H
	3700	-55.42	-13	-42.42	-73.5	-66.65	1.23	12.46	V
	5555	-50.41	-13	-37.41	-72.8	-61.90	1.80	13.29	V
	7403	-51.20	-13	-38.20	-76.96	-60.00	2.43	11.24	V
Middle	3742	-54.94	-13	-41.94	-72.53	-66.17	1.26	12.49	H
	5611	-52.58	-13	-39.58	-74.29	-64.02	1.83	13.28	H
	7487	-48.86	-13	-35.86	-75.57	-57.50	2.47	11.12	H
	3742	-55.31	-13	-42.31	-73.49	-66.54	1.26	12.49	V
	5611	-52.31	-13	-39.31	-74.69	-63.75	1.83	13.28	V
	7487	-49.09	-13	-36.09	-75.55	-57.73	2.47	11.12	V
Highest	3784	-54.16	-13	-41.16	-71.81	-65.40	1.29	12.53	H
	5674	-51.29	-13	-38.29	-73.11	-62.68	1.87	13.27	H
	7564	-49.39	-13	-36.39	-75.69	-58.00	2.53	11.14	H
	3784	-53.44	-13	-40.44	-71.74	-64.68	1.29	12.53	V
	5674	-50.66	-13	-37.66	-73.13	-62.05	1.87	13.27	V
	7564	-49.54	-13	-36.54	-75.78	-58.15	2.53	11.14	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	3440	-57.71	-13	-44.71	-74.03	-68.78	1.10	12.17	H
	5160	-54.66	-13	-41.66	-75.6	-66.01	1.54	12.89	H
	6880	-51.06	-13	-38.06	-75.34	-60.79	2.19	11.92	H
	3440	-57.19	-13	-44.19	-73.98	-68.26	1.10	12.17	V
	5160	-54.25	-13	-41.25	-75.86	-65.60	1.54	12.89	V
	6880	-51.03	-13	-38.03	-75.64	-60.76	2.19	11.92	V
Middle	3465	-57.09	-13	-44.09	-73.82	-68.21	1.10	12.22	H
	5198	-55.30	-13	-42.30	-76.32	-66.67	1.56	12.94	H
	6930	-51.05	-13	-38.05	-75.35	-60.71	2.21	11.87	H
	3465	-57.25	-13	-44.25	-74.32	-68.37	1.10	12.22	V
	5198	-53.99	-13	-40.99	-75.71	-65.36	1.56	12.94	V
	6930	-50.57	-13	-37.57	-75.38	-60.23	2.21	11.87	V
Highest	3490	-57.16	-13	-44.16	-74.29	-68.34	1.10	12.28	H
	5235	-54.88	-13	-41.88	-75.96	-66.27	1.59	12.98	H
	6980	-51.71	-13	-38.71	-76.04	-61.30	2.23	11.82	H
	3490	-57.08	-13	-44.08	-74.43	-68.26	1.10	12.28	V
	5235	-54.34	-13	-41.34	-76.13	-65.73	1.59	12.98	V
	6980	-50.77	-13	-37.77	-75.8	-60.36	2.23	11.82	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	-49.60	-13.00	-36.60	-59.61	-54.39	0.74	7.68	H
	2100	-60.92	-13.00	-47.92	-73.21	-68.06	0.95	10.24	H
	2800	-58.36	-13.00	-45.36	-73.30	-66.16	1.09	11.04	H
	1400	-49.95	-13.00	-36.95	-59.52	-54.74	0.74	7.68	V
	2100	-61.10	-13.00	-48.10	-73.46	-68.24	0.95	10.24	V
	2800	-58.08	-13.00	-45.08	-73.51	-65.88	1.09	11.04	V
Middle	1408	-52.60	-13.00	-39.60	-62.52	-57.42	0.74	7.71	H
	2112	-59.05	-13.00	-46.05	-71.48	-66.21	0.95	10.26	H
	2816	-58.97	-13.00	-45.97	-73.94	-66.78	1.09	11.05	H
	1408	-50.80	-13.00	-37.80	-60.33	-55.62	0.74	7.71	V
	2112	-59.88	-13.00	-46.88	-72.42	-67.04	0.95	10.26	V
	2816	-57.91	-13.00	-44.91	-73.37	-65.72	1.09	11.05	V
Highest	1416	-56.58	-13.00	-43.58	-66.41	-61.44	0.74	7.75	H
	2124	-61.20	-13.00	-48.20	-73.78	-68.37	0.95	10.27	H
	2832	-58.40	-13.00	-45.40	-73.41	-66.23	1.09	11.07	H
	1416	-53.82	-13.00	-40.82	-63.32	-58.68	0.74	7.75	V
	2124	-60.72	-13.00	-47.72	-73.44	-67.89	0.95	10.27	V
	2832	-57.95	-13.00	-44.95	-73.45	-65.78	1.09	11.07	V

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



<Ant. 2>

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	3700	-55.21	-13	-42.21	-72.78	-66.44	1.23	12.46	H
	5555	-50.54	-13	-37.54	-72.16	-62.03	1.80	13.29	H
	7403	-50.75	-13	-37.75	-76.79	-59.55	2.43	11.24	H
	3700	-55.80	-13	-42.80	-73.88	-67.03	1.23	12.46	V
	5555	-49.61	-13	-36.61	-72.01	-61.10	1.80	13.29	V
	7403	-50.90	-13	-37.90	-76.66	-59.70	2.43	11.24	V
Middle	3742	-56.00	-13	-43.00	-73.6	-67.23	1.26	12.49	H
	5611	-51.86	-13	-38.86	-73.56	-63.30	1.83	13.28	H
	7487	-48.36	-13	-35.36	-75.08	-57.00	2.47	11.12	H
	3742	-53.83	-13	-40.83	-72	-65.06	1.26	12.49	V
	5611	-52.01	-13	-39.01	-74.38	-63.45	1.83	13.28	V
	7487	-49.01	-13	-36.01	-75.48	-57.65	2.47	11.12	V
Highest	3742	-54.92	-13	-41.92	-72.53	-66.15	1.26	12.49	H
	5611	-52.56	-13	-39.56	-74.29	-64.00	1.83	13.28	H
	7487	-48.86	-13	-35.86	-75.57	-57.50	2.47	11.12	H
	3742	-55.30	-13	-42.30	-73.49	-66.53	1.26	12.49	V
	5611	-52.32	-13	-39.32	-74.69	-63.76	1.83	13.28	V
	7487	-49.09	-13	-36.09	-75.55	-57.73	2.47	11.12	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	3440	-57.59	-13	-44.59	-73.91	-68.66	1.10	12.17	H
	5160	-54.96	-13	-41.96	-75.9	-66.31	1.54	12.89	H
	6880	-51.08	-13	-38.08	-75.36	-60.81	2.19	11.92	H
	3440	-57.30	-13	-44.30	-74.09	-68.37	1.10	12.17	V
	5160	-53.73	-13	-40.73	-75.34	-65.08	1.54	12.89	V
	6880	-50.40	-13	-37.40	-75.01	-60.13	2.19	11.92	V
Middle	3465	-57.62	-13	-44.62	-74.35	-68.74	1.10	12.22	H
	5198	-55.44	-13	-42.44	-76.46	-66.81	1.56	12.94	H
	6930	-51.10	-13	-38.10	-75.4	-60.76	2.21	11.87	H
	3465	-57.11	-13	-44.11	-74.18	-68.23	1.10	12.22	V
	5198	-54.70	-13	-41.70	-76.42	-66.07	1.56	12.94	V
	6930	-50.57	-13	-37.57	-75.38	-60.23	2.21	11.87	V
Highest	3490	-57.20	-13	-44.20	-74.33	-68.38	1.10	12.28	H
	5235	-55.05	-13	-42.05	-76.13	-66.44	1.59	12.98	H
	6980	-51.59	-13	-38.59	-75.92	-61.18	2.23	11.82	H
	3490	-57.20	-13	-44.20	-74.55	-68.38	1.10	12.28	V
	5235	-54.48	-13	-41.48	-76.27	-65.87	1.59	12.98	V
	6980	-50.91	-13	-37.91	-75.94	-60.50	2.23	11.82	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	-50.46	-13.00	-37.46	-60.47	-55.25	0.74	7.68	H
	2100	-85.45	-13.00	-72.45	-73.45	-92.59	0.95	10.24	H
	2800	-58.54	-13.00	-45.54	-73.48	-66.34	1.09	11.04	H
	1400	-51.97	-13.00	-38.97	-61.54	-56.76	0.74	7.68	V
	2100	-61.06	-13.00	-48.06	-73.42	-68.20	0.95	10.24	V
	2800	-57.69	-13.00	-44.69	-73.12	-65.49	1.09	11.04	V
Middle	1408	-51.85	-13.00	-38.85	-61.77	-56.67	0.74	7.71	H
	2112	-59.44	-13.00	-46.44	-71.87	-66.60	0.95	10.26	H
	2816	-58.95	-13.00	-45.95	-73.92	-66.76	1.09	11.05	H
	1408	-51.96	-13.00	-38.96	-61.49	-56.78	0.74	7.71	V
	2112	-60.67	-13.00	-47.67	-73.21	-67.83	0.95	10.26	V
	2816	-58.38	-13.00	-45.38	-73.84	-66.19	1.09	11.05	V
Highest	1416	-51.88	-13.00	-38.88	-61.71	-56.74	0.74	7.75	H
	2124	-60.36	-13.00	-47.36	-72.94	-67.53	0.95	10.27	H
	2832	-58.40	-13.00	-45.40	-73.41	-66.23	1.09	11.07	H
	1416	-54.75	-13.00	-41.75	-64.25	-59.61	0.74	7.75	V
	2124	-60.44	-13.00	-47.44	-73.10	-67.61	0.95	10.27	V
	2832	-58.06	-13.00	-45.06	-73.56	-65.89	1.09	11.07	V

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

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