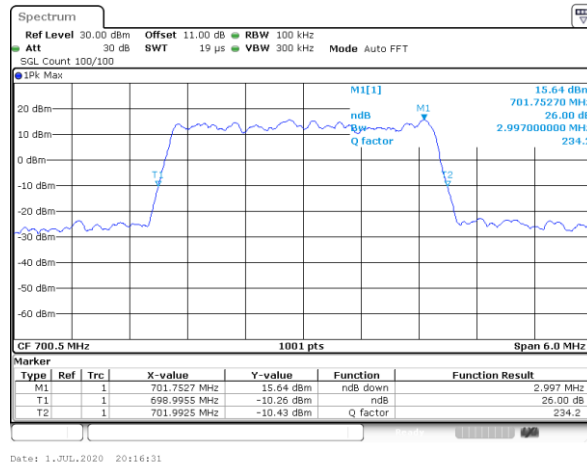


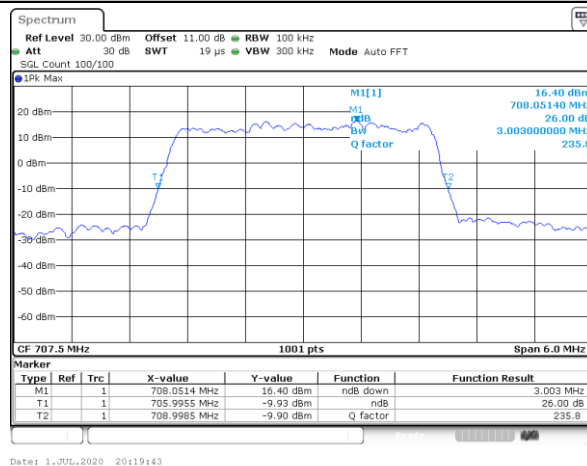


LTE Band 12

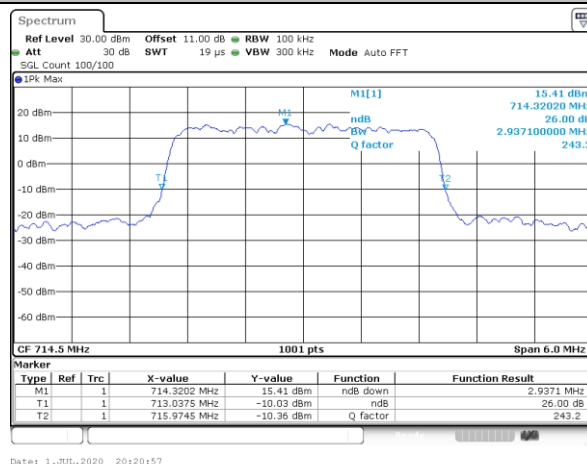
Lowest Channel / 3MHz / 16QAM



Middle Channel / 3MHz / 16QAM



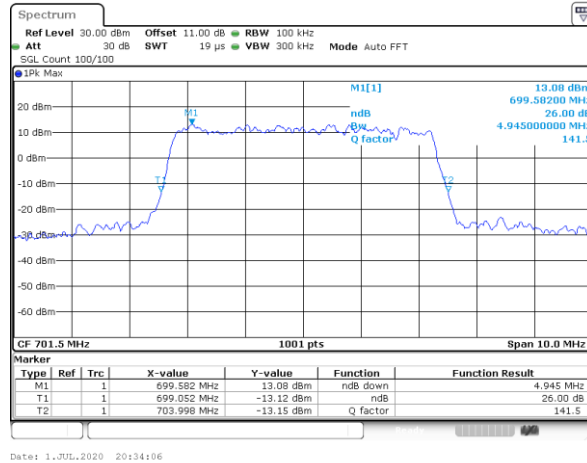
Highest Channel / 3MHz / 16QAM



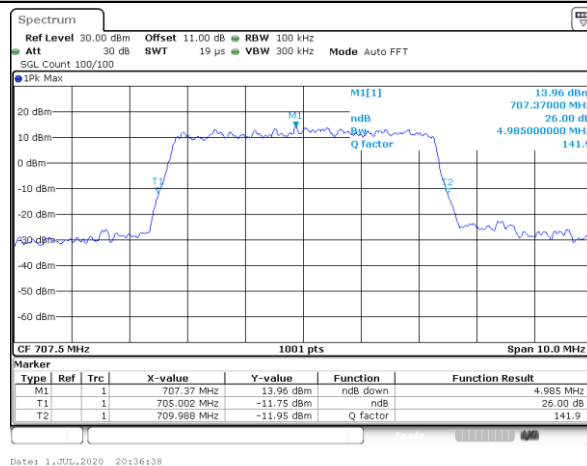


LTE Band 12

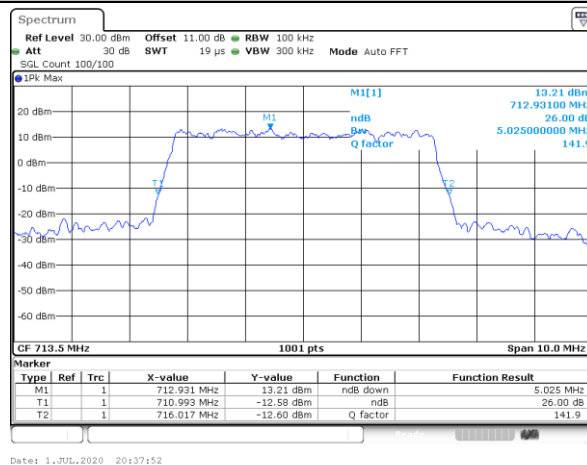
Lowest Channel / 5MHz / 16QAM



Middle Channel / 5MHz / 16QAM



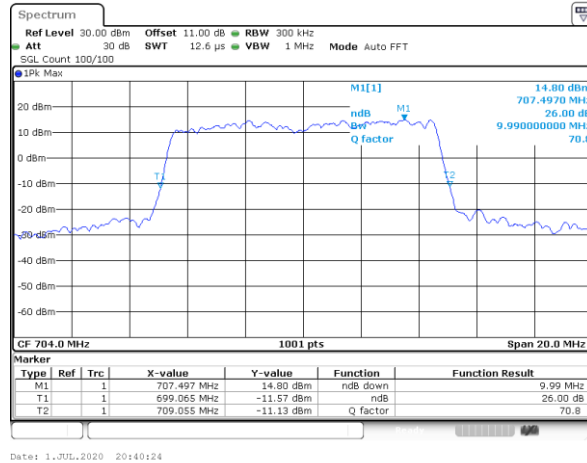
Highest Channel / 5MHz / 16QAM



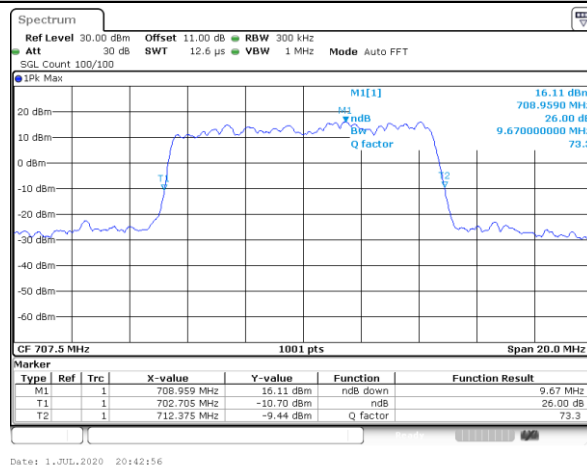


LTE Band 12

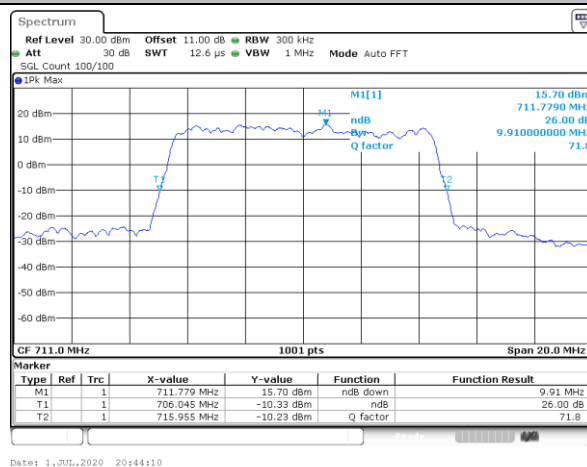
Lowest Channel / 10MHz / 16QAM



Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / 16QAM



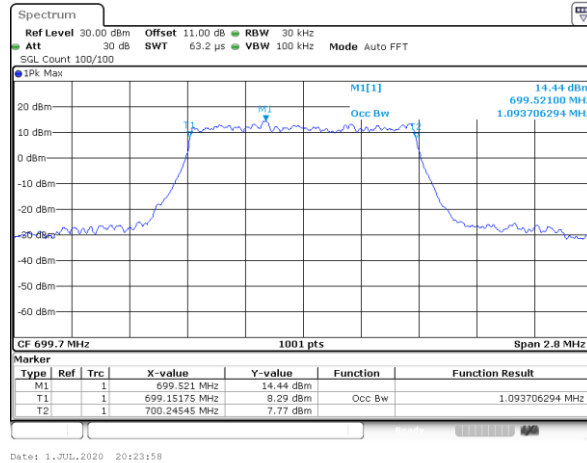
**Occupied Bandwidth**

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	1.09	-	2.73	-	4.51	-	9.05	-	-	-	-
Middle CH	-	1.09	-	2.72	-	4.48	-	8.95	-	-	-	-
Highest CH	-	1.10	-	2.72	-	4.50	-	9.01	-	-	-	-

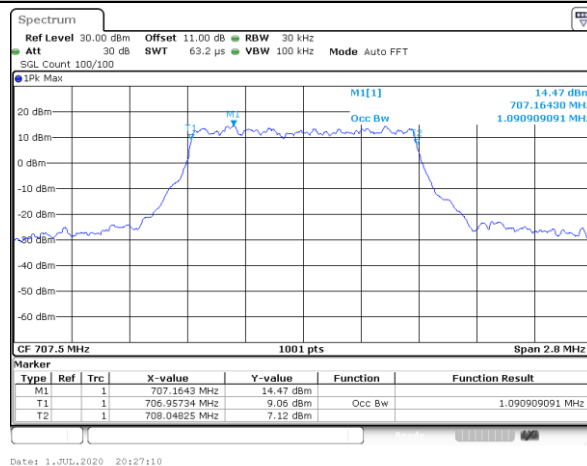


LTE Band 12

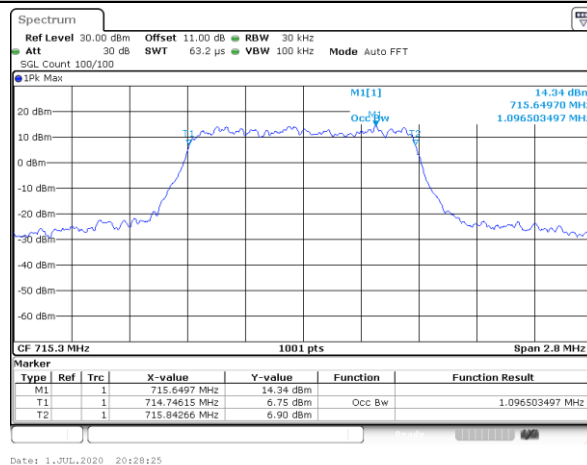
Lowest Channel / 1.4MHz / 16QAM

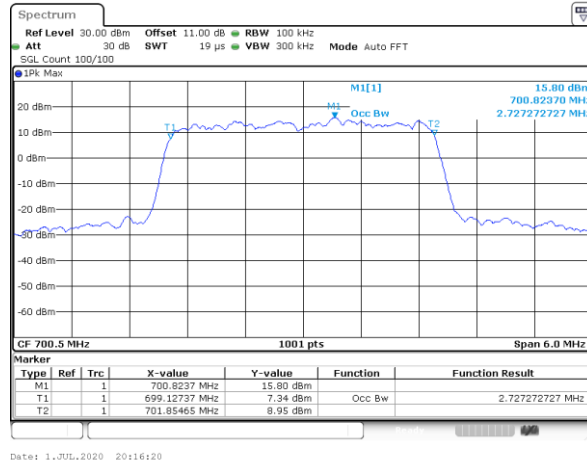
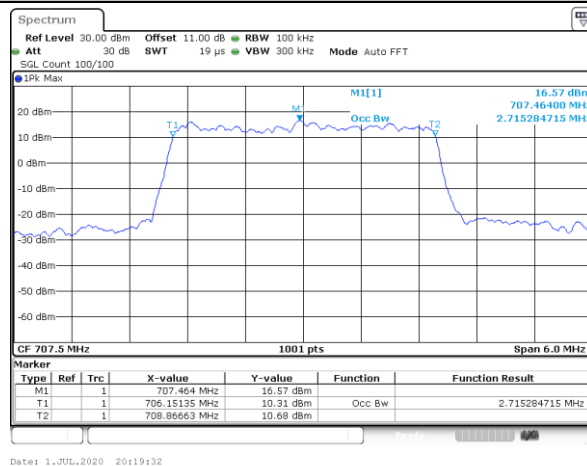
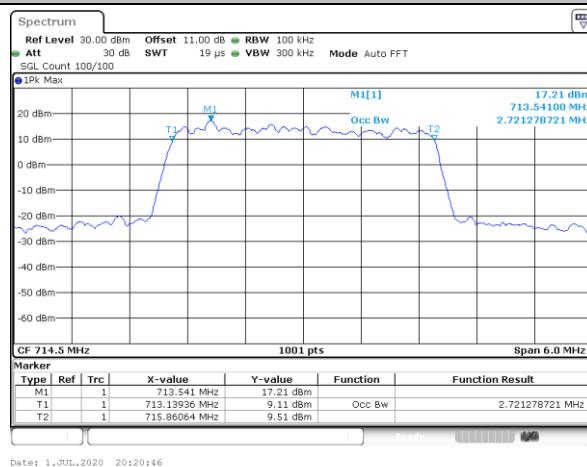


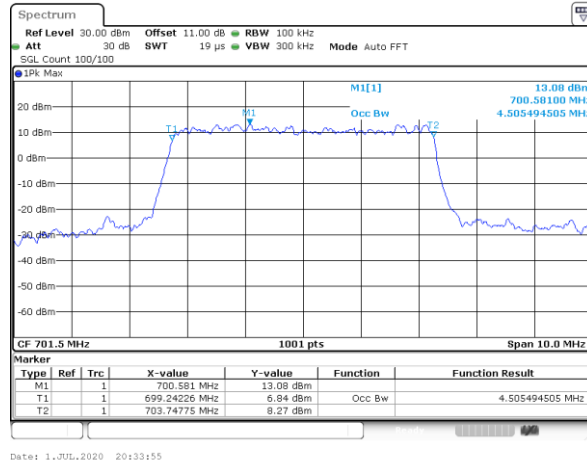
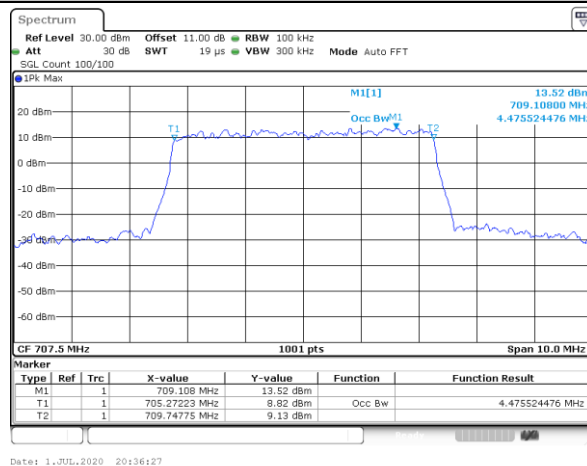
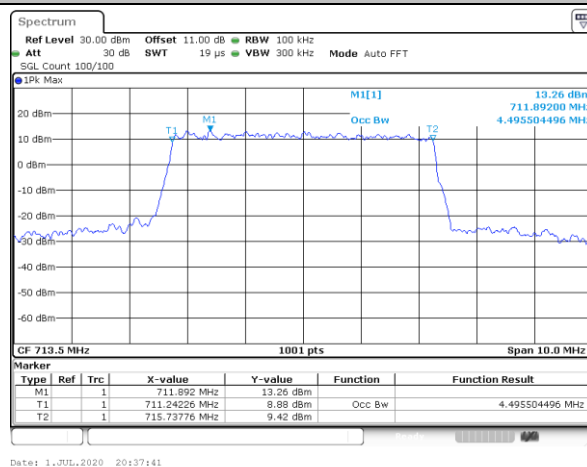
Middle Channel / 1.4MHz / 16QAM

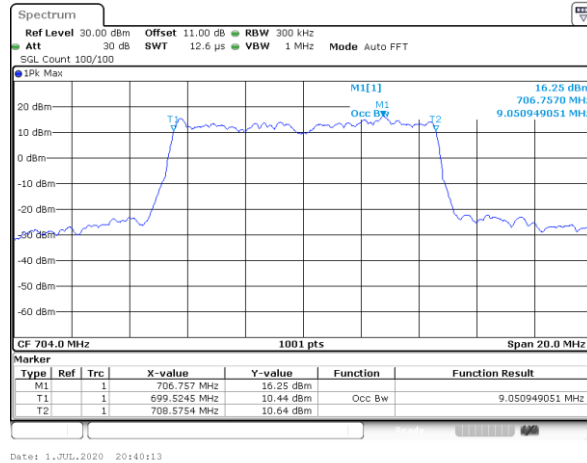
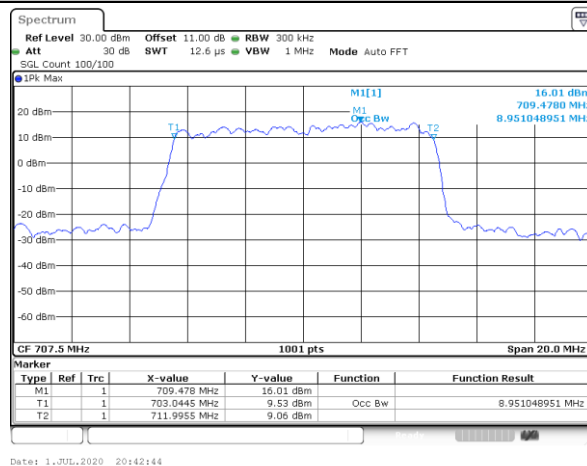
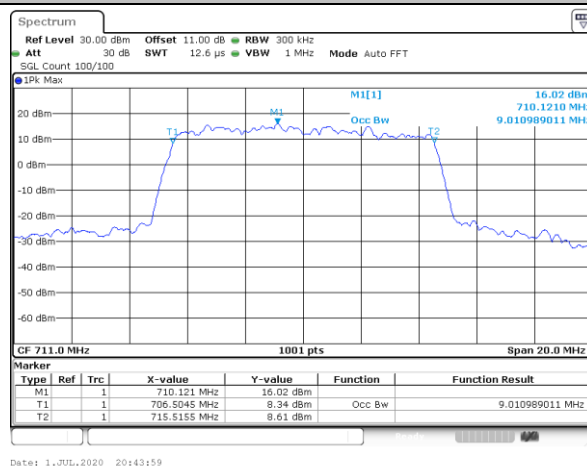


Highest Channel / 1.4MHz / 16QAM



**LTE Band 12****Lowest Channel / 3MHz / 16QAM****Middle Channel / 3MHz / 16QAM****Highest Channel / 3MHz / 16QAM**

**LTE Band 12****Lowest Channel / 5MHz / 16QAM****Middle Channel / 5MHz / 16QAM****Highest Channel / 5MHz / 16QAM**

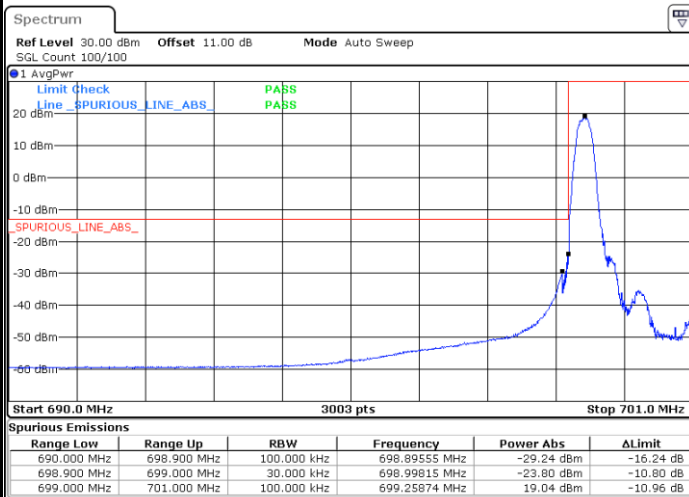
**LTE Band 12****Lowest Channel / 10MHz / 16QAM****Middle Channel / 10MHz / 16QAM****Highest Channel / 10MHz / 16QAM**



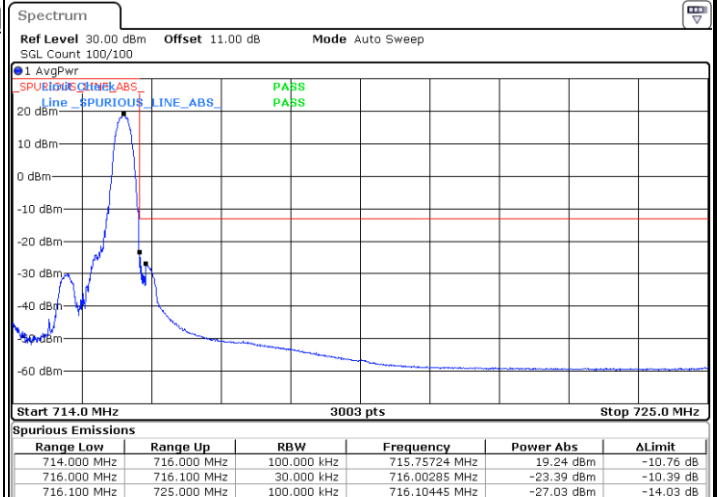
Conducted Band Edge

LTE Band 12 / 1.4MHz / 16QAM

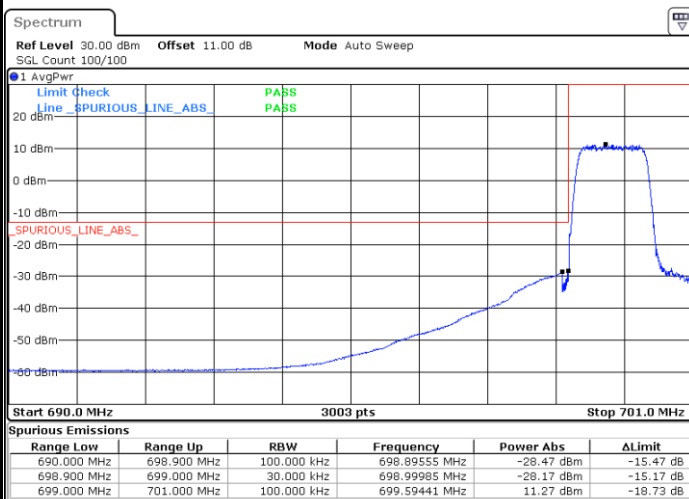
Lowest Band Edge / 1 RB



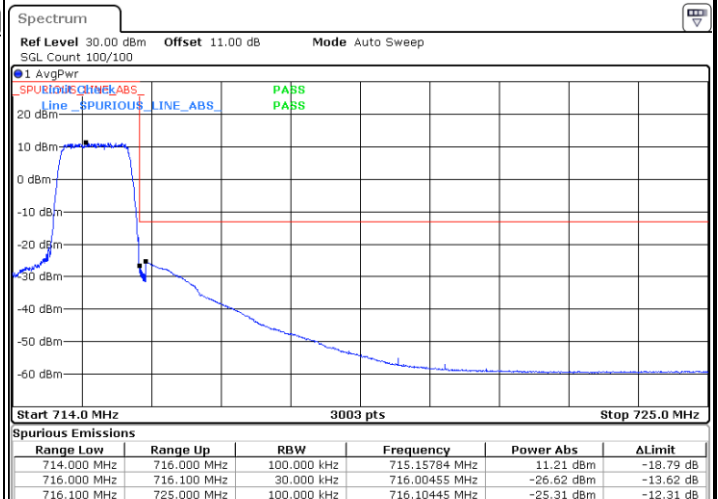
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



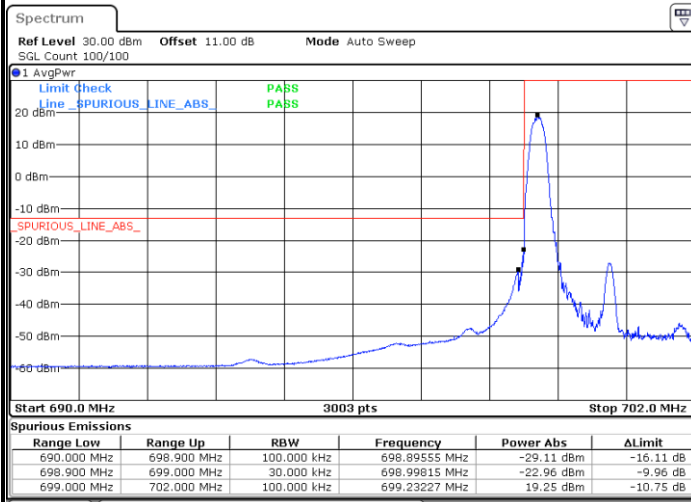
Highest Band Edge / Full RB



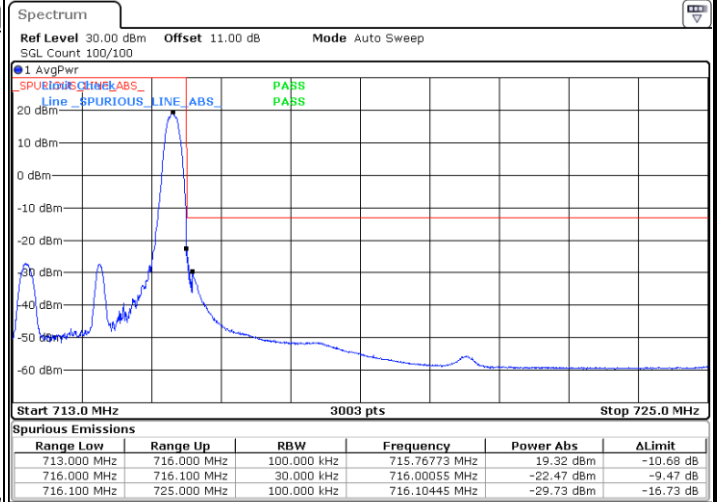


LTE Band 12 / 3MHz / 16QAM

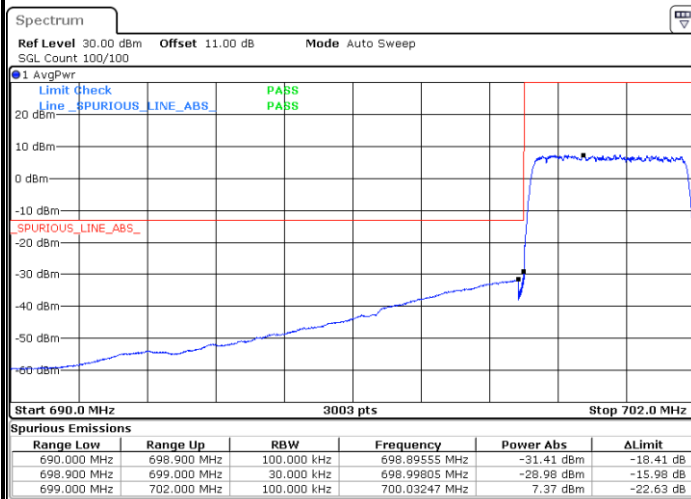
Lowest Band Edge / 1 RB



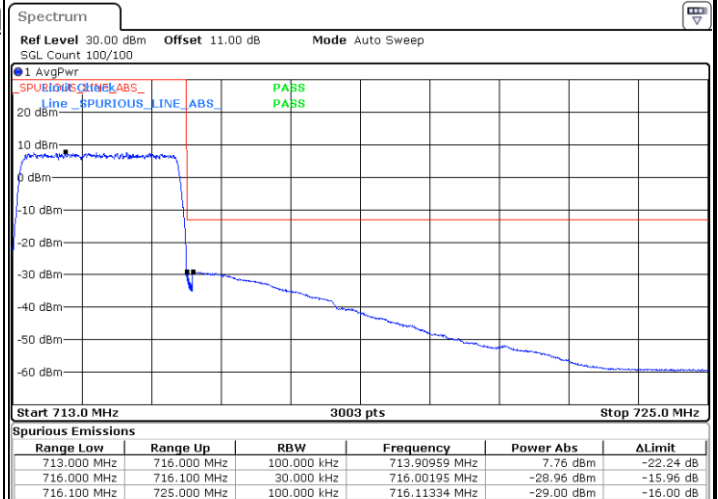
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



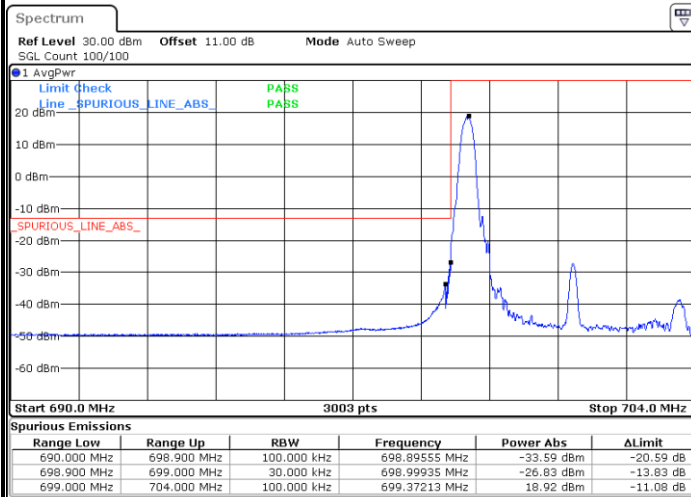
Highest Band Edge / Full RB



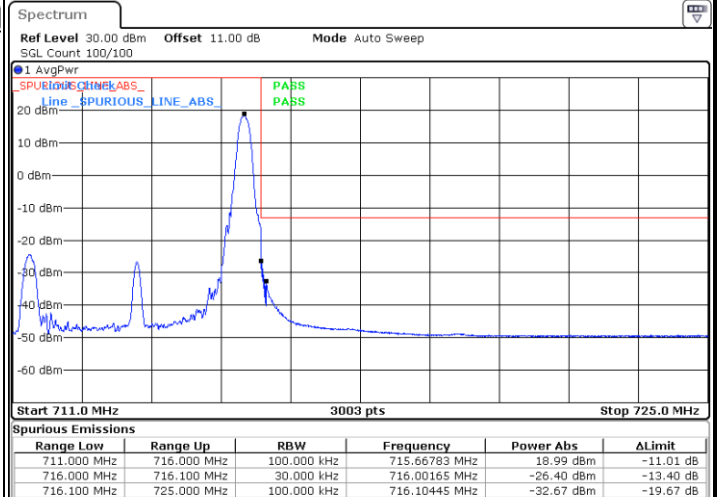


LTE Band 12 / 5MHz / 16QAM

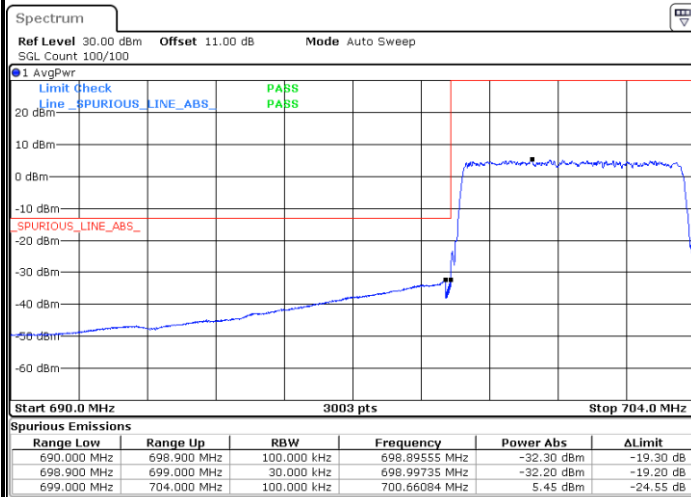
Lowest Band Edge / 1RB



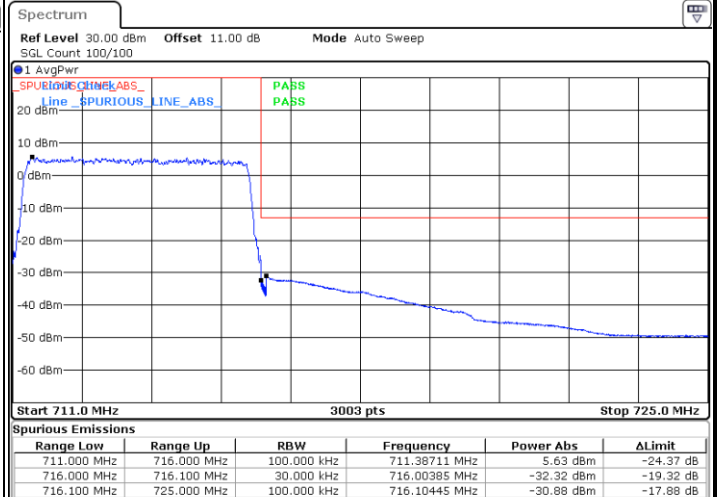
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



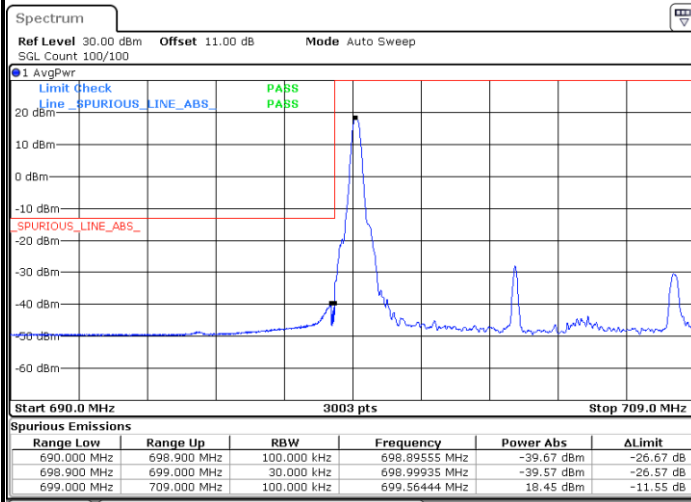
Highest Band Edge / Full RB



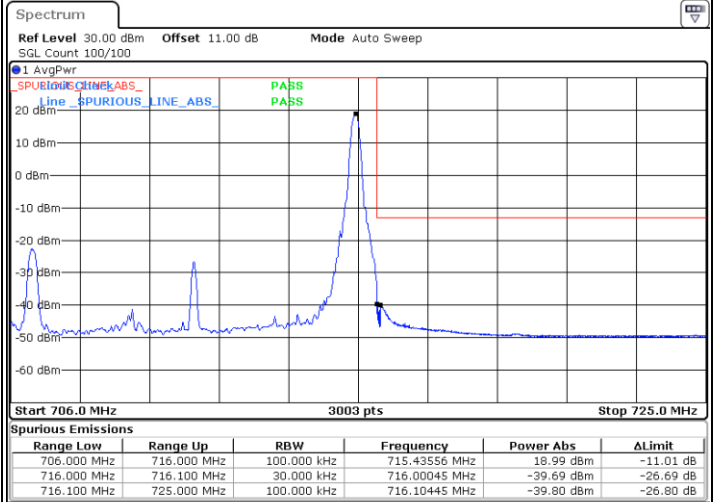


LTE Band 12 / 10MHz / 16QAM

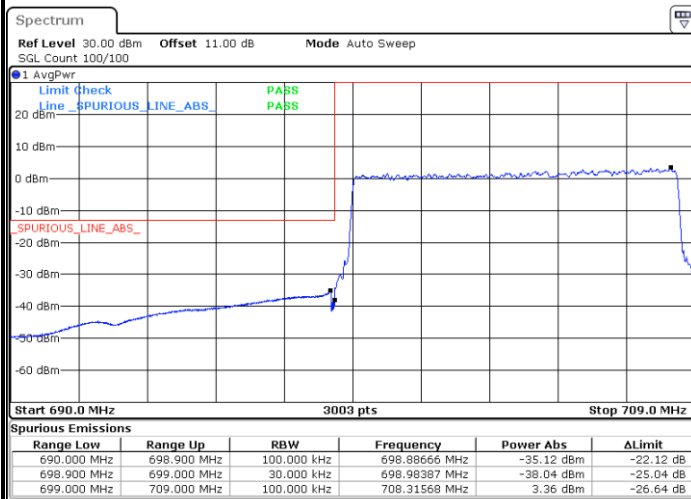
Lowest Band Edge / 1 RB



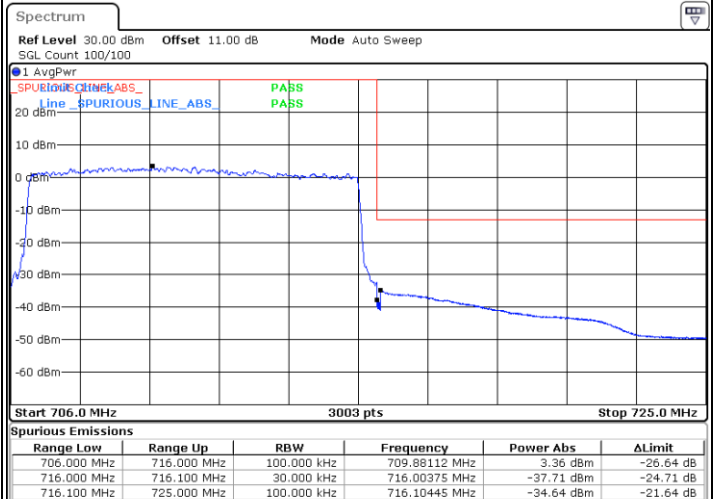
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

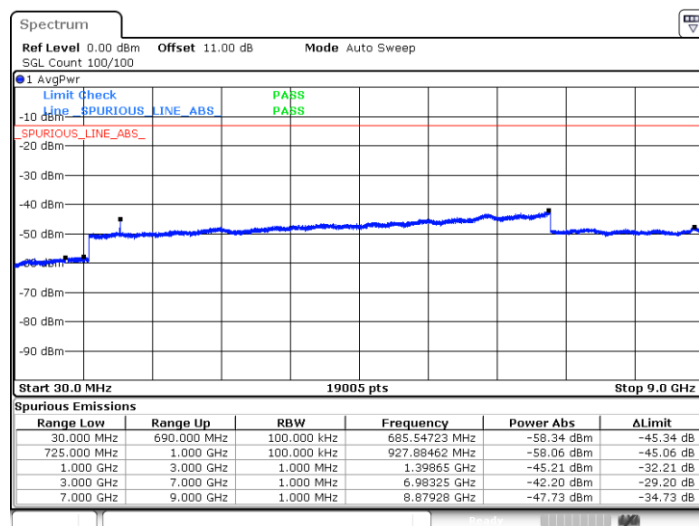




Conducted Spurious Emission

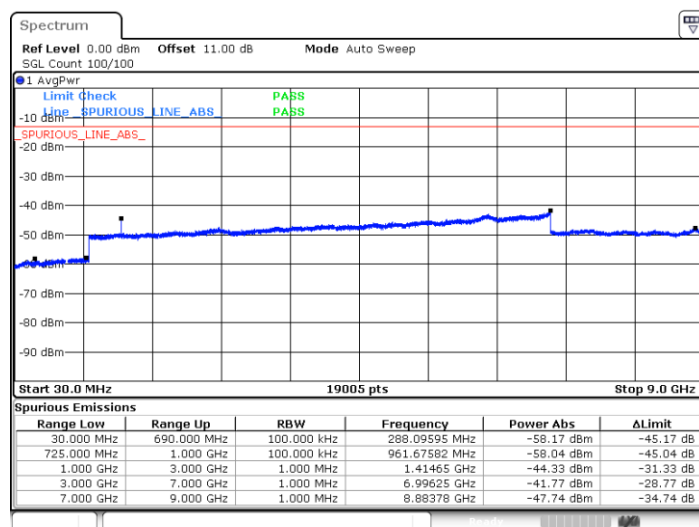
LTE Band 12 / 1.4MHz

Lowest Channel / 16QAM

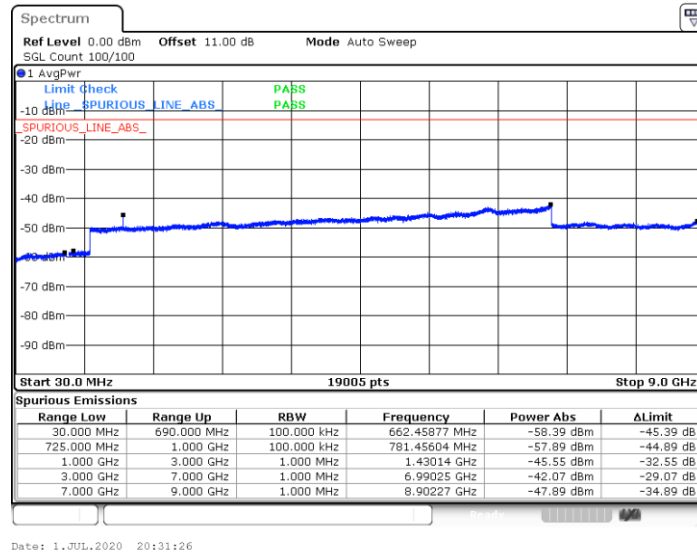
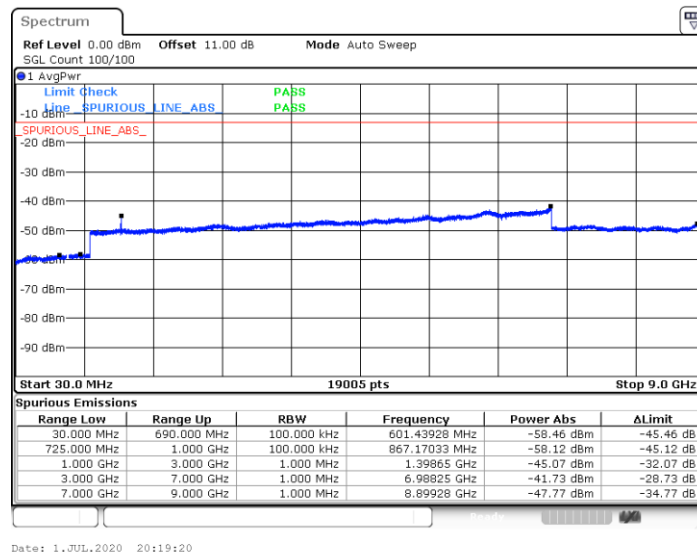


Date: 1.JUL.2020 20:26:59

Middle Channel / 16QAM



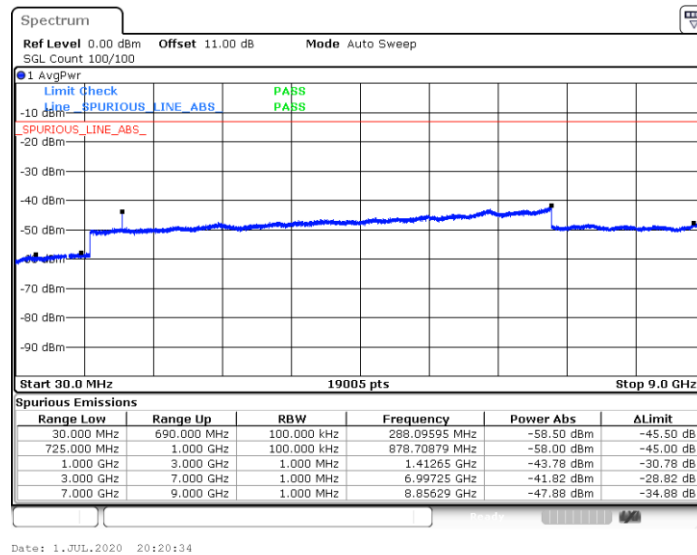
Date: 1.JUL.2020 20:28:13

**LTE Band 12 / 1.4MHz****Highest Channel / 16QAM****LTE Band 12 / 3MHz****Lowest Channel / 16QAM**

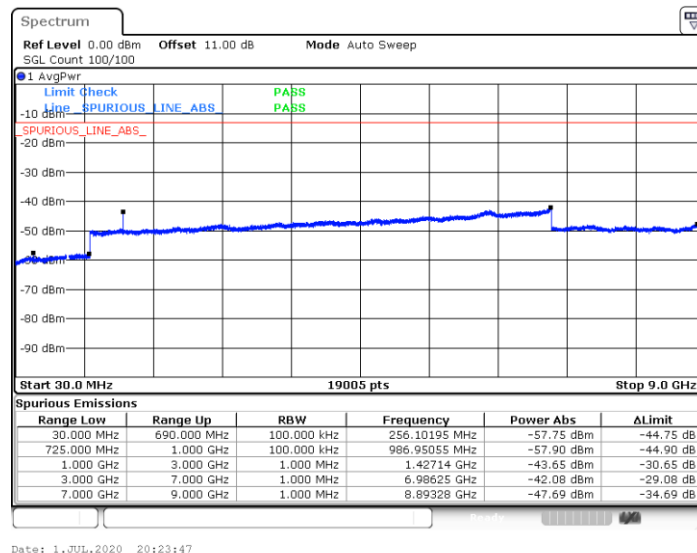


LTE Band 12 / 3MHz

Middle Channel / 16QAM



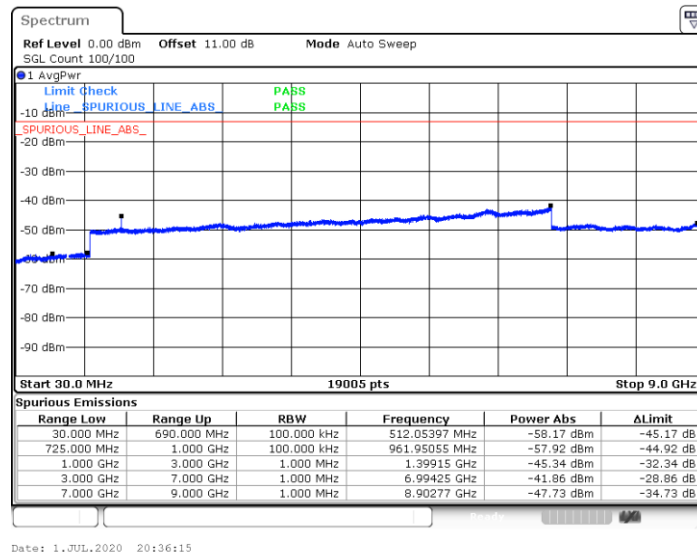
Highest Channel / 16QAM



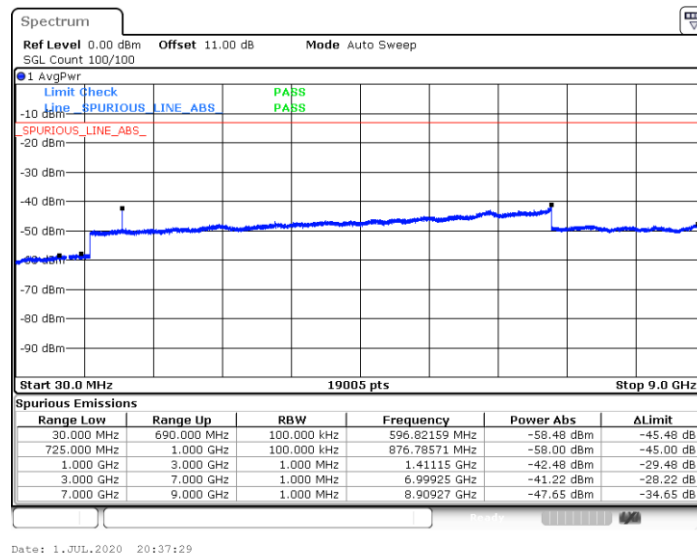


LTE Band 12 / 5MHz

Lowest Channel / 16QAM



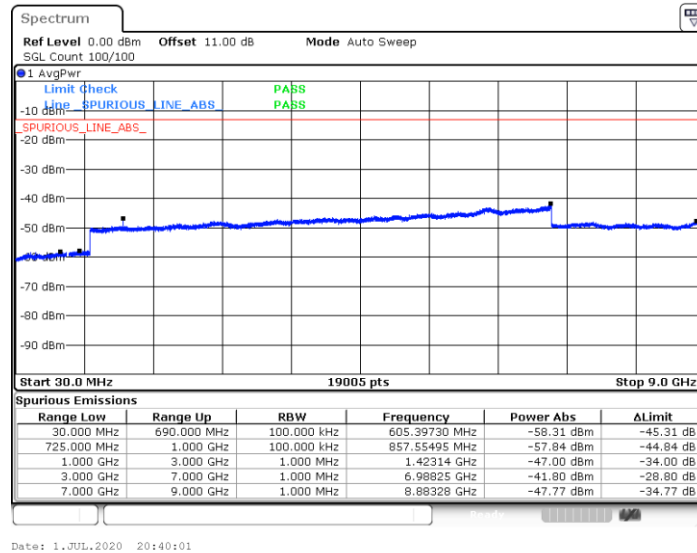
Middle Channel / 16QAM





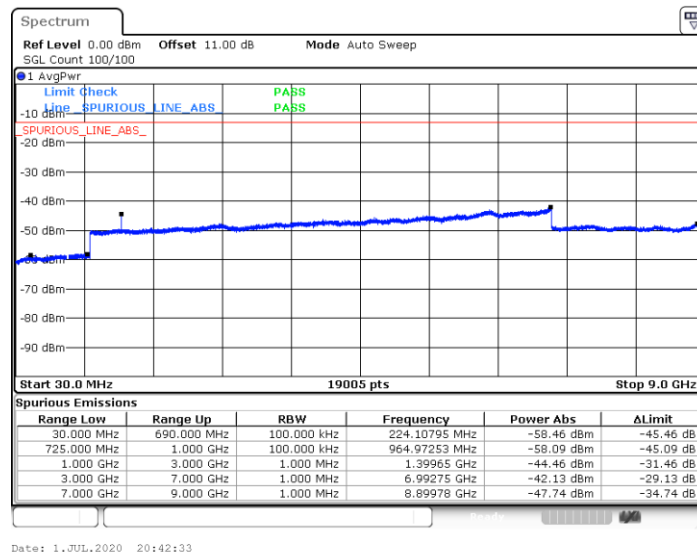
LTE Band 12 / 5MHz

Highest Channel / 16QAM



LTE Band 12 / 10MHz

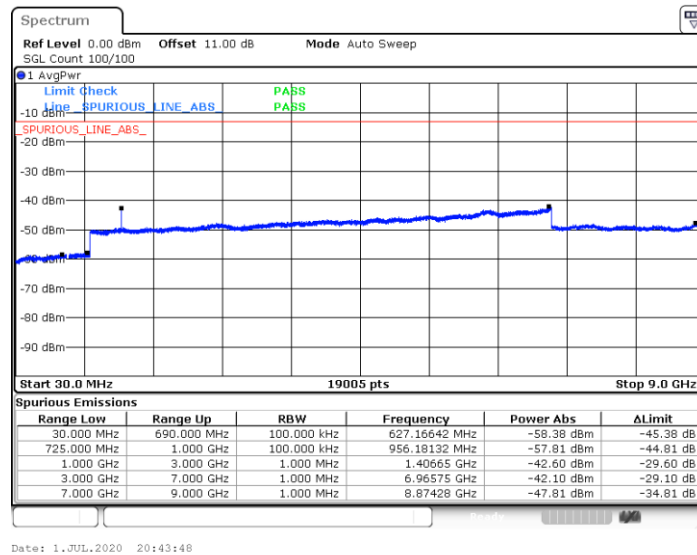
Lowest Channel / 16QAM



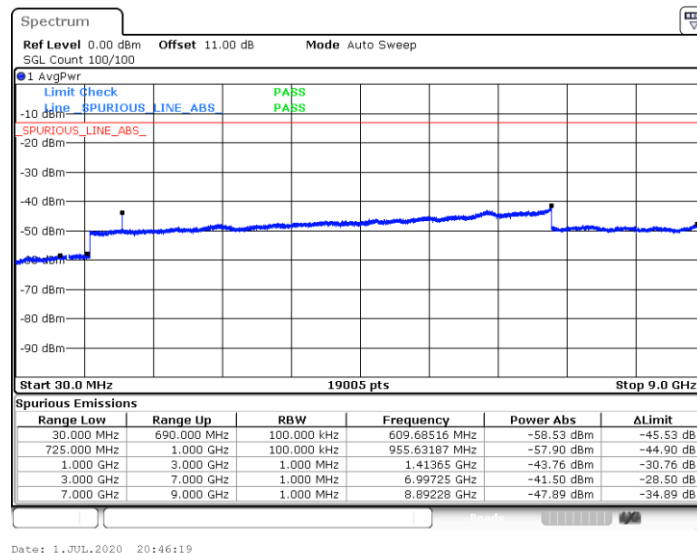


LTE Band 12 / 10MHz

Middle Channel / 16QAM



Highest Channel / 16QAM



Frequency Stability

Test Conditions		LTE Band 12 (16QAM) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0103	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0161	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0048	
20	Battery End Point	0.0106	

Note:

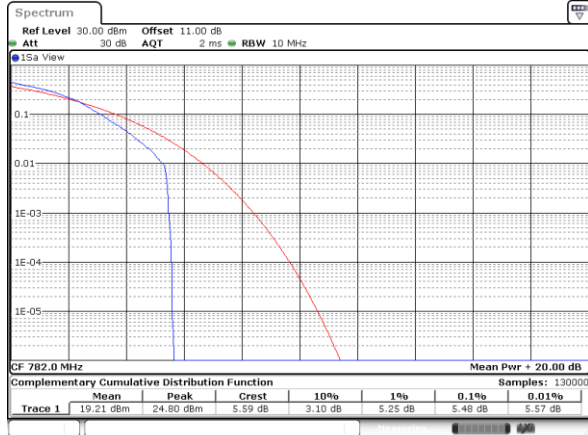
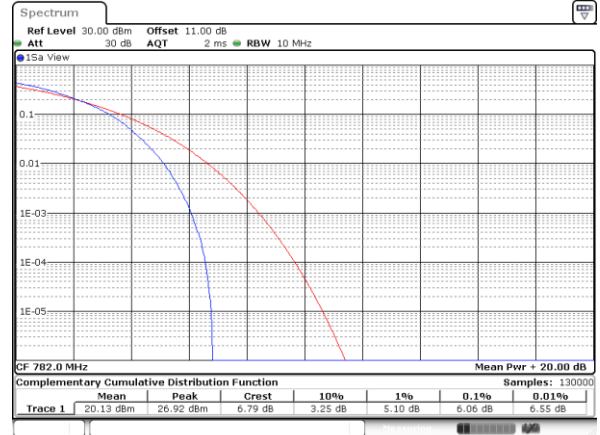
1. Normal Voltage =12 V. ; Battery End Point (BEP) =10.2 V. ; Maximum Voltage =13.8 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	-	-	5.48	6.06	
Highest CH	-	-	-	-	

LTE Band 13 / 10MHz / 16QAM
Middle Channel / 1RB

Middle Channel / Full RB


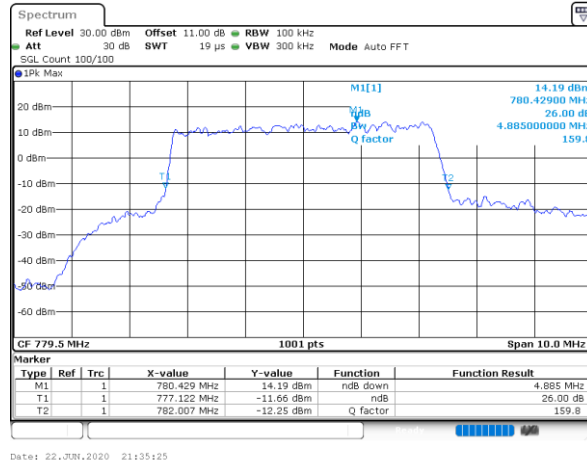
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	-	4.89	-	-	-	-	-	-
Middle CH	-	-	-	-	-	4.94	-	9.79	-	-	-	-
Highest CH	-	-	-	-	-	4.92	-	-	-	-	-	-

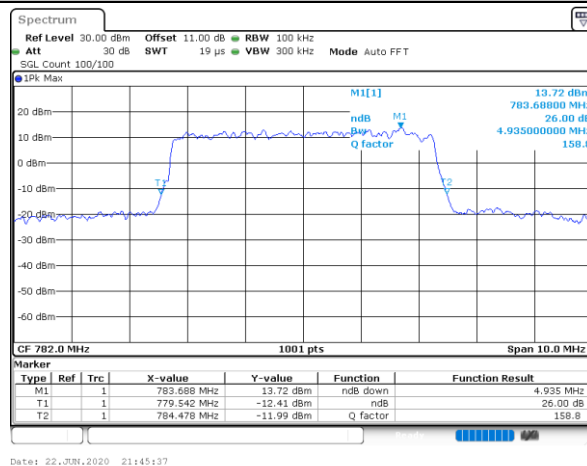


LTE Band 13

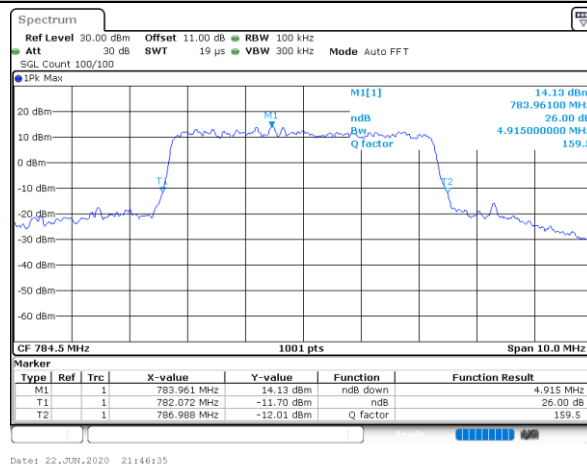
Lowest Channel / 5MHz / 16QAM



Middle Channel / 5MHz / 16QAM



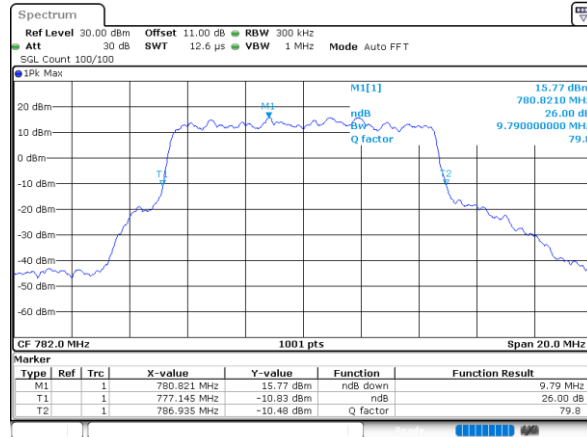
Highest Channel / 5MHz / 16QAM





LTE Band 13

Middle Channel / 10MHz / 16QAM



Date: 22 JUN 2020 21:55:32

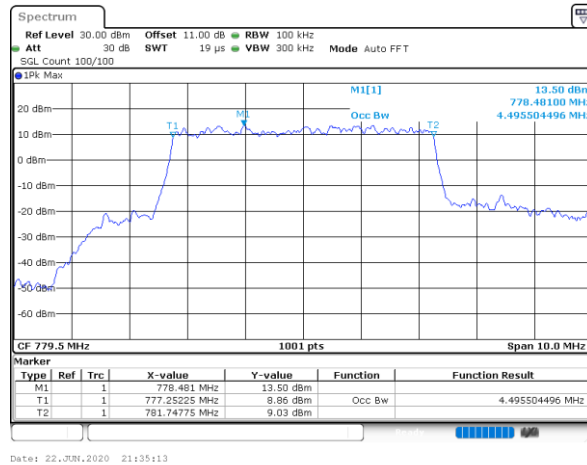
**Occupied Bandwidth**

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	-	4.50	-	-	-	-	-	-
Middle CH	-	-	-	-	-	4.51	-	8.95	-	-	-	-
Highest CH	-	-	-	-	-	4.51	-	-	-	-	-	-

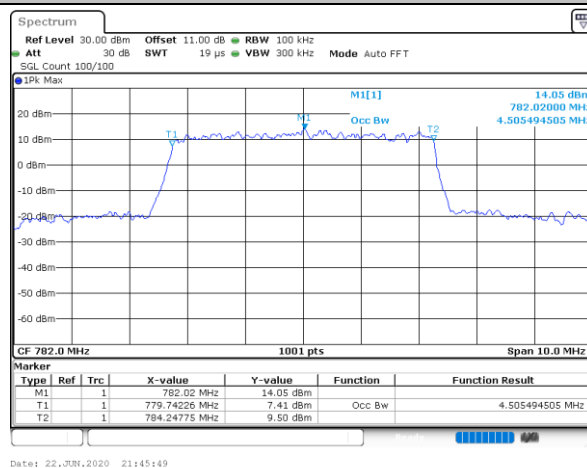


LTE Band 13

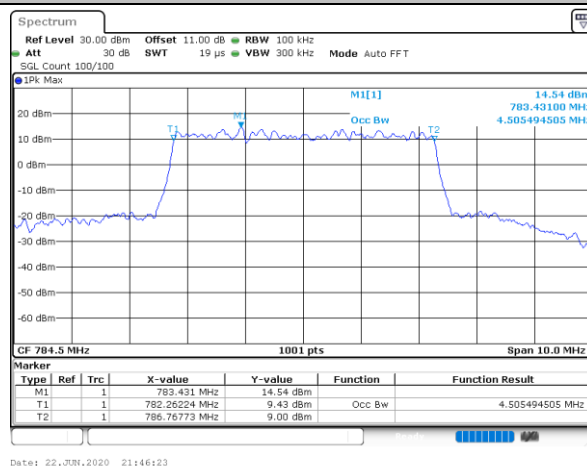
Lowest Channel / 5MHz / 16QAM



Middle Channel / 5MHz / 16QAM



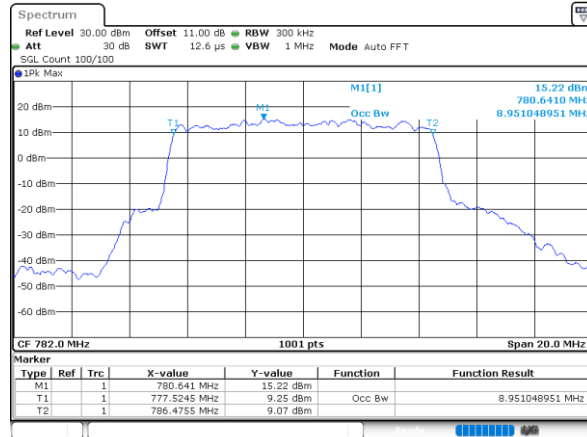
Highest Channel / 5MHz / 16QAM





LTE Band 13

Middle Channel / 10MHz / 16QAM



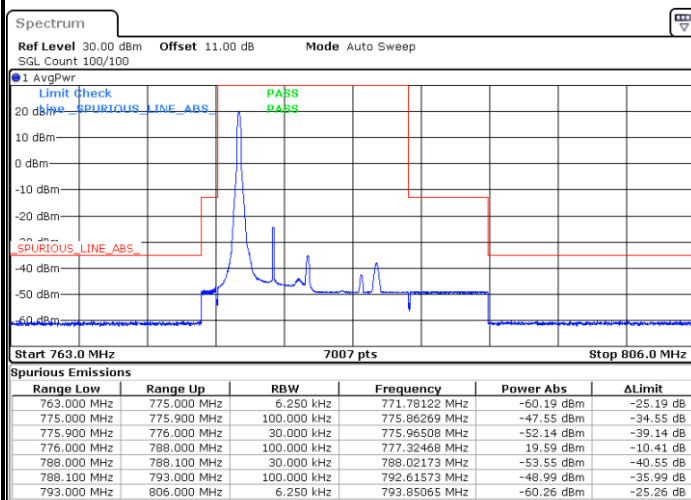
Date: 22.JUN.2020 21:55:21



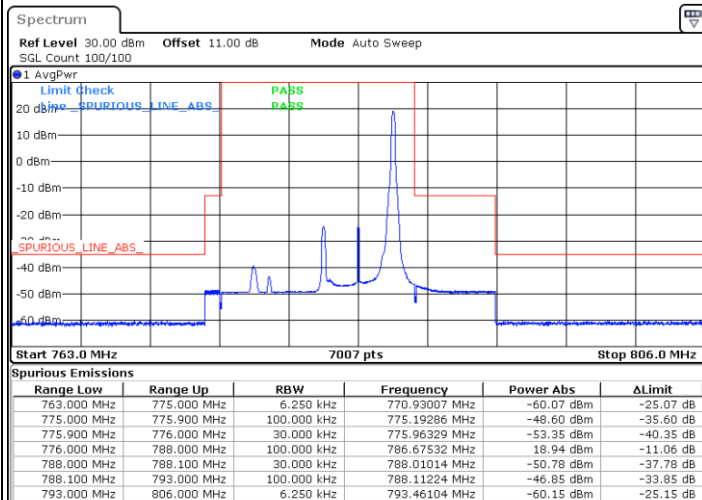
Conducted Band Edge

LTE Band 13 / 5MHz / 16QAM

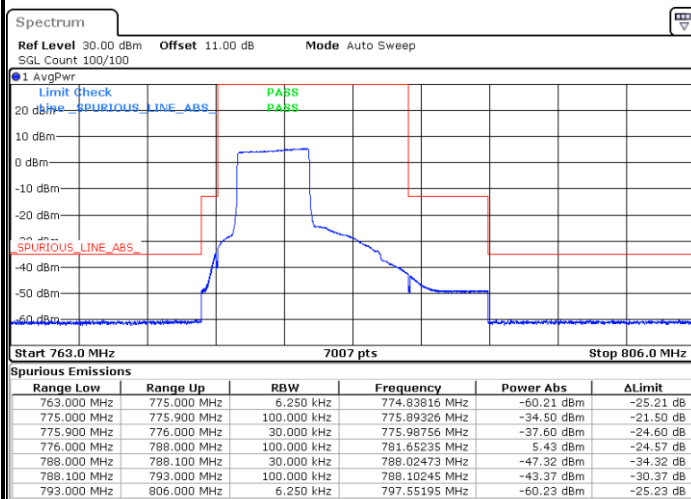
Lowest Band Edge / 1 RB



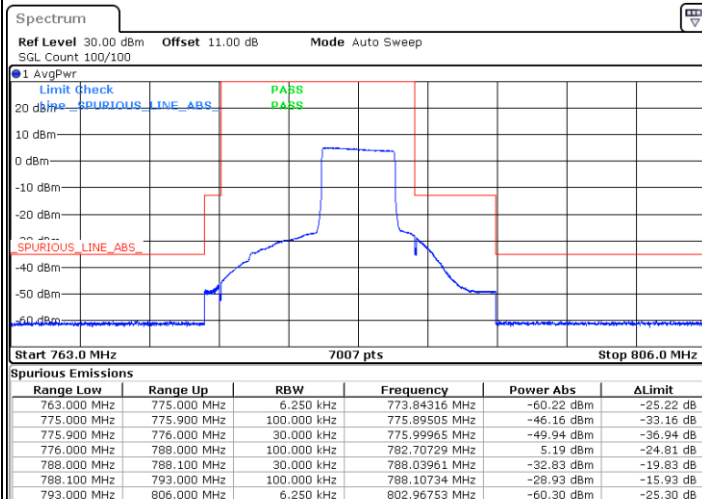
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



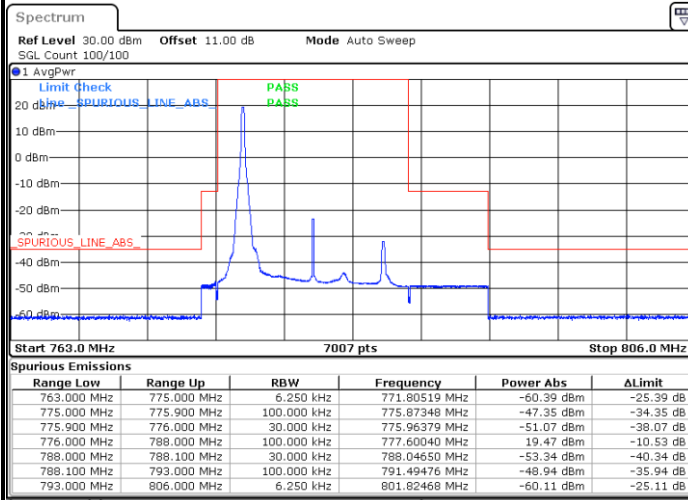
Highest Band Edge / Full RB





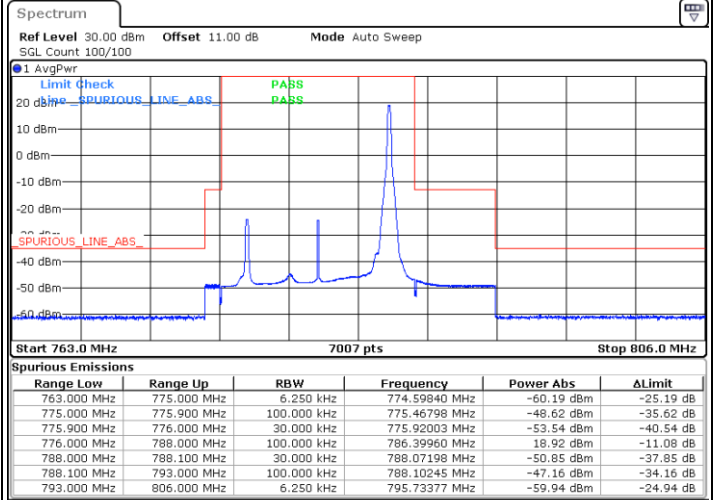
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



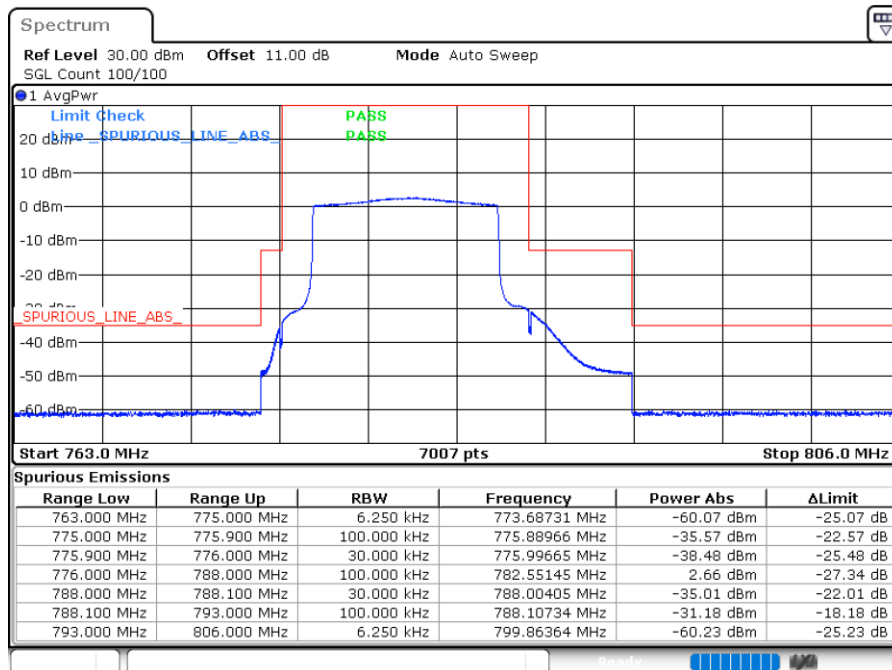
Date: 22.JUN.2020 22:00:41

Highest Band Edge / 1 RB



Date: 22.JUN.2020 22:05:40

Band Edge / Full RB

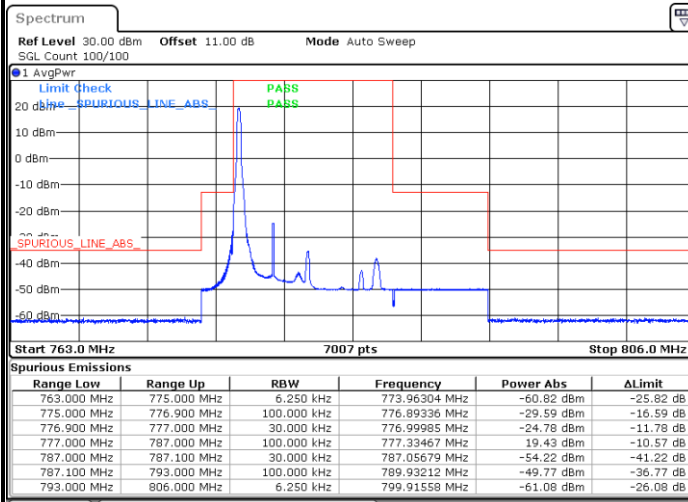


Date: 22.JUN.2020 21:59:02

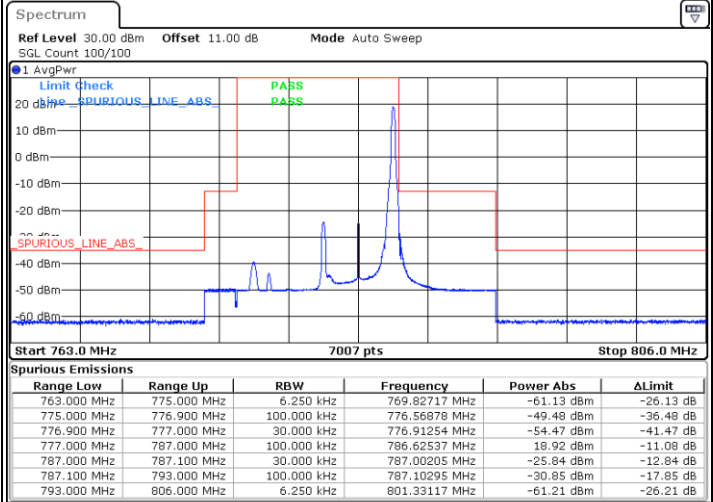


IC LTE Band 13 / 5MHz / 16QAM

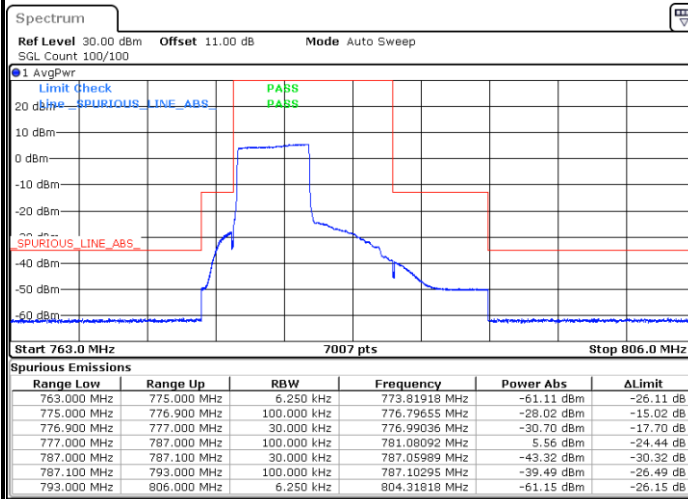
Lowest Band Edge / 1 RB



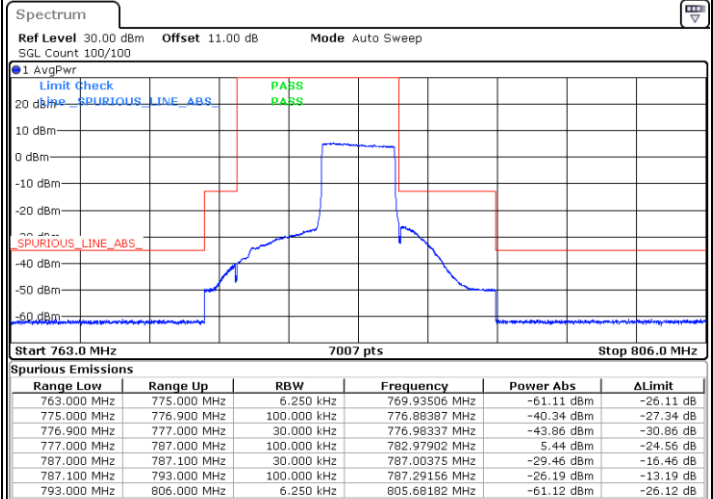
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



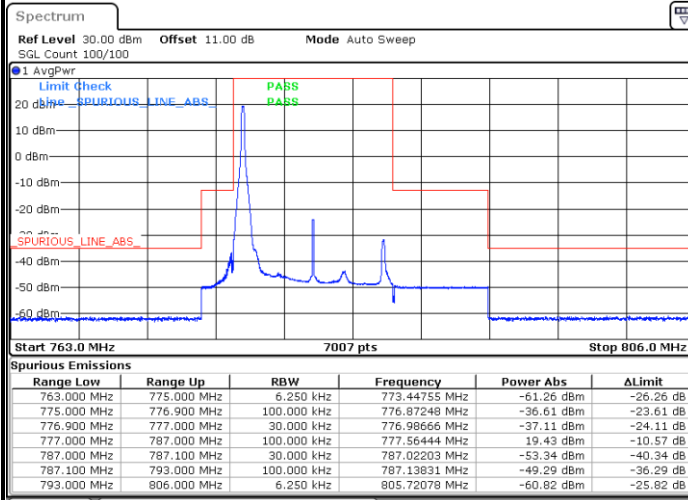
Highest Band Edge / Full RB



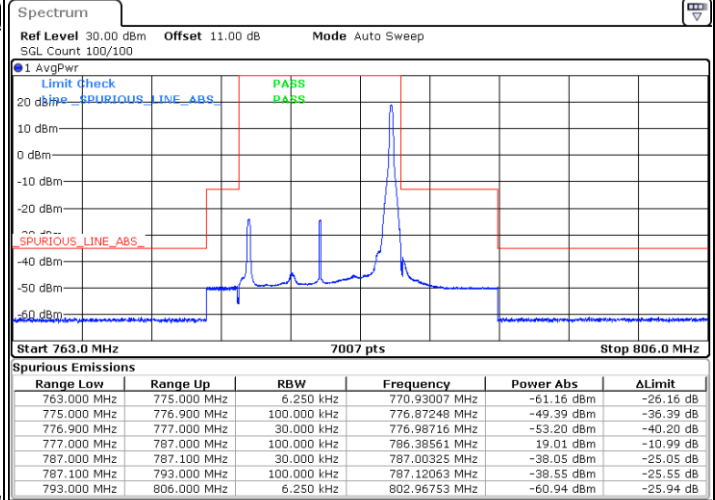


IC LTE Band 13 / 10MHz / 16QAM

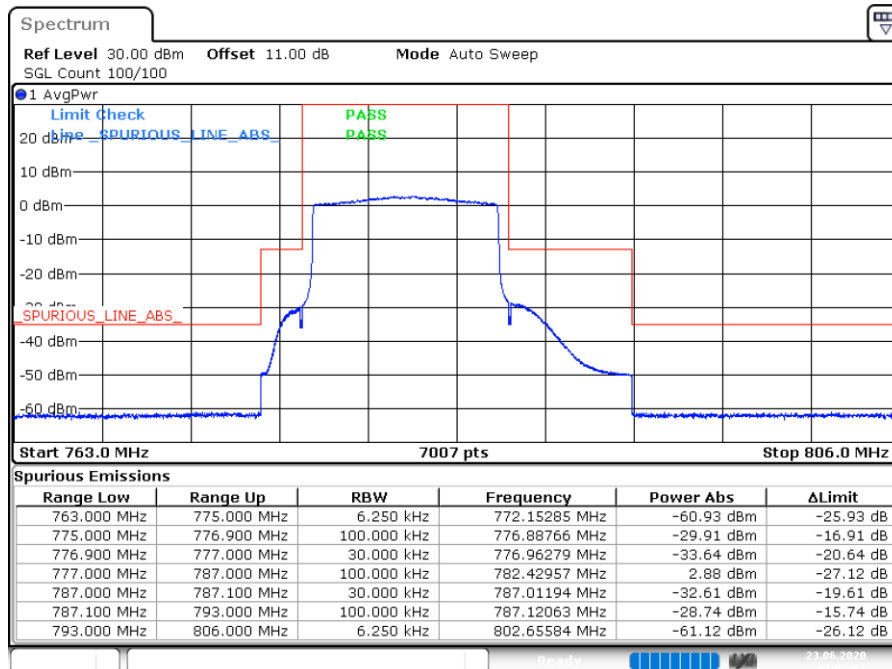
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

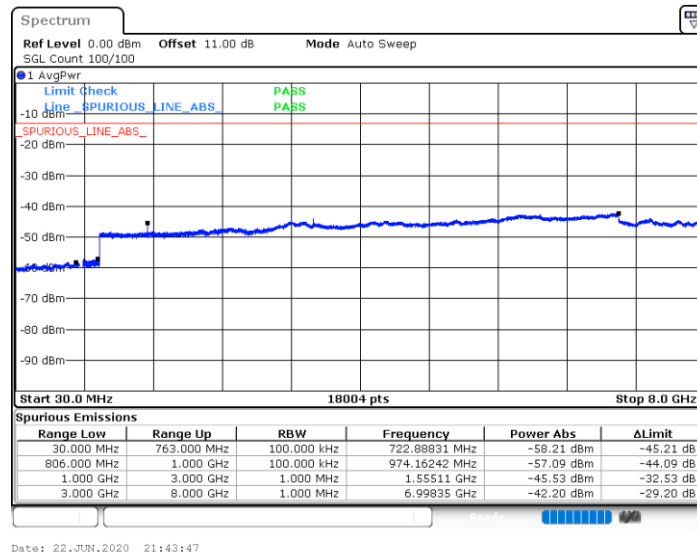




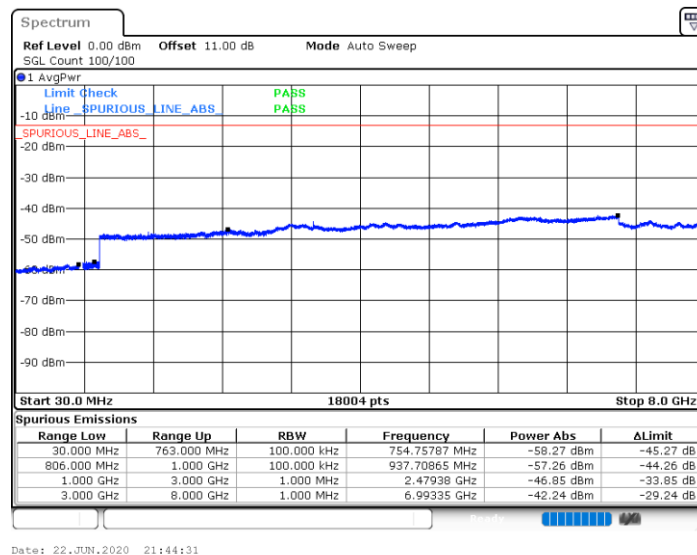
Conducted Spurious Emission

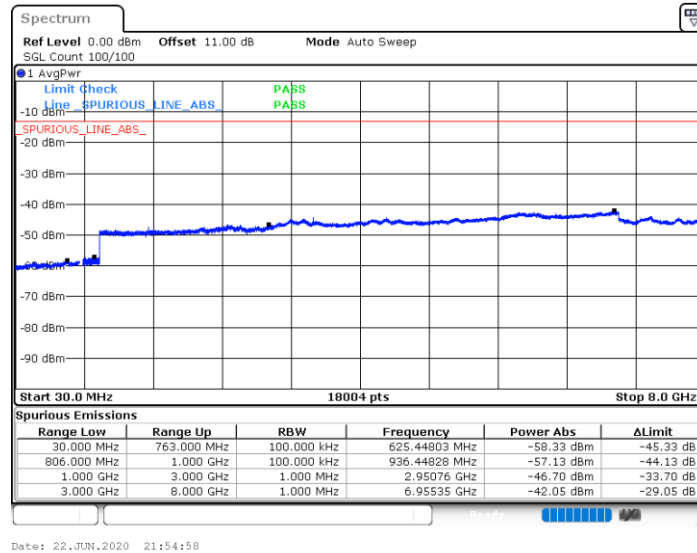
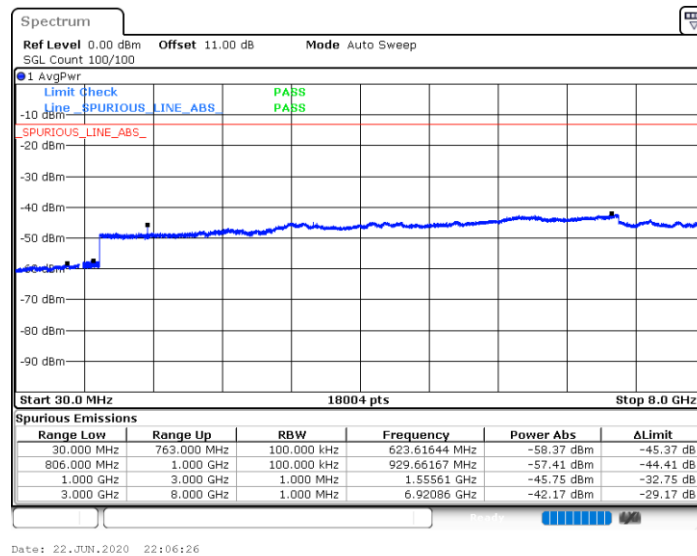
LTE Band 13 / 5MHz

Lowest Channel / 16QAM



Middle Channel / 16QAM



**LTE Band 13 / 5MHz****Highest Channel / 16QAM****Middle Channel / 16QAM**

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0180	
30	Normal Voltage	0.0201	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0182	
20	Maximum Voltage	0.0060	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0014	

Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =10.2 V. ; Maximum Voltage =13.8 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

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

LTE Band 2 / 1.4MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	3	21.17	0.1309	23.17	0.2075
Middle		1	3	21.12	0.1294	23.12	0.2051
Highest		1	3	21.28	0.1343	23.28	0.2128
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	14	21.04	0.1271	23.04	0.2014
Middle		1	14	21.14	0.1300	23.14	0.2061
Highest		1	14	21.05	0.1274	23.05	0.2018
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	12	21.23	0.1327	23.23	0.2104
Middle		1	12	21.18	0.1312	23.18	0.2080
Highest		1	12	21.29	0.1346	23.29	0.2133
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	25	21.37	0.1371	23.37	0.2173
Middle		1	25	21.19	0.1315	23.19	0.2084
Highest		1	25	21.24	0.1330	23.24	0.2109
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	37	21.43	0.1390	23.43	0.2203
Middle		1	37	21.26	0.1337	23.26	0.2118
Highest		1	37	21.34	0.1361	23.34	0.2158
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	49	21.40	0.1380	23.40	0.2188
Middle		1	49	21.19	0.1315	23.19	0.2084
Highest		1	49	21.27	0.1340	23.27	0.2123
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	3	1	21.00	0.1259	23.00	0.1995
Middle		3	1	21.58	0.1439	23.58	0.2280
Highest		3	1	21.44	0.1393	23.44	0.2208
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	14	21.01	0.1262	23.01	0.2000
Middle		1	14	21.34	0.1361	23.34	0.2158
Highest		1	14	21.11	0.1291	23.11	0.2046
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	12	21.05	0.1274	23.05	0.2018
Middle		1	12	21.48	0.1406	23.48	0.2228
Highest		1	12	21.45	0.1396	23.45	0.2213
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	0	21.04	0.1271	23.04	0.2014
Middle		1	0	21.18	0.1312	23.18	0.2080
Highest		1	0	21.61	0.1449	23.61	0.2296
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	37	21.05	0.1274	23.05	0.2018
Middle		1	37	21.62	0.1452	23.62	0.2301
Highest		1	37	21.75	0.1496	23.75	0.2371
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	0	21.08	0.1282	23.08	0.2032
Middle		1	0	21.17	0.1309	23.17	0.2075
Highest		1	0	21.82	0.1521	23.82	0.2410
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	3	3	22.41	0.1742	22.26	0.1683
Middle		3	3	21.77	0.1503	21.62	0.1452
Highest		3	3	21.13	0.1297	20.98	0.1253
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	1	14	22.34	0.1714	22.19	0.1656
Middle		1	14	21.51	0.1416	21.36	0.1368
Highest		1	14	21.03	0.1268	20.88	0.1225
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	1	12	22.47	0.1766	22.32	0.1706
Middle		1	12	21.78	0.1507	21.63	0.1455
Highest		1	12	21.14	0.1300	20.99	0.1256
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	1	25	22.34	0.1714	22.19	0.1656
Middle		1	25	21.77	0.1503	21.62	0.1452
Highest		1	25	21.33	0.1358	21.18	0.1312
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	12	21.65	0.1462	23.65	0.2317
Middle		1	12	21.67	0.1469	23.67	0.2328
Highest		1	12	21.01	0.1262	23.01	0.2000
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	25	21.73	0.1489	23.73	0.2360
Middle		1	25	21.52	0.1419	23.52	0.2249
Highest		1	25	21.15	0.1303	23.15	0.2065
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	37	21.81	0.1517	23.81	0.2404
Middle		1	37	21.73	0.1489	23.73	0.2360
Highest		1	37	21.36	0.1368	23.36	0.2168
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	16QAM	1	49	21.54	0.1426	23.54	0.2259
Middle		1	49	21.68	0.1472	23.68	0.2333
Highest		1	49	21.17	0.1309	23.17	0.2075
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	3	1	21.90	0.1549	21.75	0.1496
Middle		3	1	22.37	0.1726	22.22	0.1667
Highest		3	1	22.18	0.1652	22.03	0.1596
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	1	8	21.71	0.1483	21.56	0.1432
Middle		1	8	22.17	0.1648	22.02	0.1592
Highest		1	8	21.94	0.1563	21.79	0.1510
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	1	12	22.08	0.1614	21.93	0.1560
Middle		1	12	22.33	0.1710	22.18	0.1652
Highest		1	12	22.34	0.1714	22.19	0.1656
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 10MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	1	25	22.10	0.1622	21.95	0.1567
Middle		1	25	22.35	0.1718	22.20	0.1660
Highest		1	25	22.29	0.1694	22.14	0.1637
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	1	12	22.22	0.1667	22.07	0.1611
Middle		1	12	21.83	0.1524	21.68	0.1472
Highest		1	12	21.89	0.1545	21.74	0.1493
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = 2 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	21.87	0.1538	21.72	0.1486
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	

**Radiated Spurious Emission****LTE Band 4**

LTE Band 4 / 20MHz / 16QAM									
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	-56.30	-13	-43.30	-75.52	-66.70	1.82	12.22	H
	5160	-53.23	-13	-40.23	-76.66	-63.07	2.29	12.13	H
	6880	-50.46	-13	-37.46	-76.76	-59.10	2.38	11.02	H
									H
									H
	3440	-56.16	-13	-43.16	-75.96	-66.56	1.82	12.22	V
	5160	-52.80	-13	-39.80	-76.79	-62.64	2.29	12.13	V
	6880	-49.88	-13	-36.88	-76.76	-58.52	2.38	11.02	V
									V
									V
Middle	3465	-56.46	-13	-43.46	-75.91	-66.91	1.84	12.30	H
	5198	-53.47	-13	-40.47	-76.93	-63.33	2.28	12.14	H
	6930	-49.49	-13	-36.49	-75.94	-58.06	2.40	10.97	H
									H
									H
	3465	-55.83	-13	-42.83	-75.81	-66.28	1.84	12.30	V
	5198	-52.71	-13	-39.71	-76.72	-62.57	2.28	12.14	V
	6930	-48.38	-13	-35.38	-75.45	-56.95	2.40	10.97	V
									V
									V



Highest	3490	-56.09	-13	-43.09	-75.77	-66.60	1.86	12.37	H
	5235	-53.56	-13	-40.56	-77.05	-63.44	2.26	12.15	H
	6980	-49.62	-13	-36.62	-76.23	-58.13	2.41	10.92	H
									H
									H
									H
									H
	3490	-55.76	-13	-42.76	-75.91	-66.27	1.86	12.37	V
	5235	-52.76	-13	-39.76	-76.79	-62.64	2.26	12.15	V
	6980	-48.52	-13	-35.52	-75.79	-57.03	2.41	10.92	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 / 1.4MHz / 16QAM									
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	-43.36	-13.00	-30.36	-57.67	-47.80	1.15	7.74	H
	2100	-58.64	-13.00	-45.64	-75.47	-65.29	1.38	10.18	H
	2800	-57.22	-13.00	-44.22	-75.00	-64.36	1.45	10.74	H
	3500	-56.83	-13.00	-43.83	-75.89	-65.21	1.87	12.40	H
	4200	-52.77	-13.00	-39.77	-73.08	-60.65	2.07	12.10	H
	4900	-50.10	-13.00	-37.10	-72.93	-57.77	2.28	12.10	H
									H
	1400	-47.42	-13.00	-34.42	-61.16	-51.86	1.15	7.74	V
	2100	-58.35	-13.00	-45.35	-75.43	-65.00	1.38	10.18	V
	2800	-57.03	-13.00	-44.03	-75.22	-64.17	1.45	10.74	V
	3500	-56.12	-13.00	-43.12	-75.63	-64.50	1.87	12.40	V
	4200	-53.31	-13.00	-40.31	-74.30	-61.19	2.07	12.10	V
	4900	-50.90	-13.00	-37.90	-74.35	-58.57	2.28	12.10	V
									V
Middle	1416	-46.01	-13.00	-33.01	-60.26	-50.52	1.15	7.81	H
	2124	-47.83	-13.00	-34.83	-65.06	-54.50	1.38	10.20	H
	2832	-57.52	-13.00	-44.52	-75.38	-64.68	1.45	10.77	H
	3540	-56.29	-13.00	-43.29	-75.62	-64.63	1.89	12.38	H
	4248	-52.20	-13.00	-39.20	-72.79	-60.10	2.05	12.10	H
	4956	-50.93	-13.00	-37.93	-73.92	-58.55	2.33	12.10	H
									H
	1416	-50.32	-13.00	-37.32	-64.04	-54.83	1.15	7.81	V
	2124	-54.09	-13.00	-41.09	-71.63	-60.76	1.38	10.20	V
	2832	-57.32	-13.00	-44.32	-75.60	-64.48	1.45	10.77	V
	3540	-55.93	-13.00	-42.93	-75.76	-64.27	1.89	12.38	V
	4248	-51.73	-13.00	-38.73	-73.02	-59.63	2.05	12.10	V
	4956	-50.85	-13.00	-37.85	-74.46	-58.47	2.33	12.10	V
									V



Highest	1432	-44.93	-13.00	-31.93	-59.12	-49.51	1.16	7.89	H
	2148	-53.08	-13.00	-40.08	-70.71	-59.76	1.38	10.22	H
	2864	-57.56	-13.00	-44.56	-75.49	-64.75	1.45	10.79	H
	3580	-56.32	-13.00	-43.32	-75.93	-64.61	1.91	12.35	H
	4296	-49.25	-13.00	-36.25	-70.14	-57.16	2.04	12.10	H
	5012	-51.33	-13.00	-38.33	-74.46	-58.93	2.36	12.10	H
									H
	1432	-47.41	-13.00	-34.41	-61.12	-51.99	1.16	7.89	V
	2148	-56.21	-13.00	-43.21	-74.21	-62.89	1.38	10.22	V
	2864	-57.10	-13.00	-44.10	-75.47	-64.29	1.45	10.79	V
	3580	-54.93	-13.00	-41.93	-75.08	-63.22	1.91	12.35	V
	4296	-51.05	-13.00	-38.05	-72.65	-58.96	2.04	12.10	V
	5012	-53.68	-13.00	-40.68	-77.43	-61.28	2.36	12.10	V
									V

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

**LTE Band 13**

LTE Band 13 / 5MHz / 16QAM									
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	-55.43	-42.15	-13.28	-68.73	-60.52	1.19	8.43	H
	2336	-58.18	-13	-45.18	-75.65	-64.99	1.41	10.37	H
	3120	-56.42	-13	-43.42	-75.24	-63.97	1.56	11.26	H
									H
									H
									H
									H
	1560	-51.91	-42.15	-9.76	-64.99	-57.00	1.19	8.43	V
	2336	-53.48	-13	-40.48	-71.49	-60.29	1.41	10.37	V
	3120	-56.19	-13	-43.19	-75.28	-63.74	1.56	11.26	V
									V
									V
									V
									V
Middle	1568	-56.56	-42.15	-14.41	-69.77	-61.67	1.20	8.46	H
	2344	-58.02	-13	-45.02	-75.45	-64.83	1.42	10.38	H
	3136	-56.87	-13	-43.87	-75.75	-64.46	1.57	11.31	H
									H
									H
									H
									H
	1568	-52.37	-42.15	-10.22	-65.37	-57.48	1.20	8.46	V
	2344	-53.33	-13	-40.33	-71.29	-60.14	1.42	10.38	V
	3136	-56.29	-13	-43.29	-75.41	-63.88	1.57	11.31	V
									V
									V
									V
									V



Highest	1568	-56.36	-42.15	-14.21	-69.57	-61.47	1.20	8.46	H
	2352	-58.13	-13	-45.13	-75.49	-64.95	1.42	10.38	H
	3136	-56.97	-13	-43.97	-75.85	-64.56	1.57	11.31	H
									H
									H
									H
									H
	1568	-54.72	-42.15	-12.57	-67.72	-59.83	1.20	8.46	V
	2352	-56.34	-13	-43.34	-74.24	-63.16	1.42	10.38	V
	3136	-56.54	-13	-43.54	-75.66	-64.13	1.57	11.31	V
									V
									V
									V
									V

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



LTE Band 13 / 10MHz / 16QAM									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1568	-57.36	-42.15	-15.21	-70.57	-62.47	1.20	8.46	H
	2344	-57.32	-13	-44.32	-74.75	-64.13	1.42	10.38	H
	3136	-56.65	-13	-43.65	-75.53	-64.24	1.57	11.31	H
									H
									H
									H
									H
	1568	-53.01	-42.15	-10.86	-66.01	-58.12	1.20	8.46	V
	2344	-53.58	-13	-40.58	-71.54	-60.39	1.42	10.38	V
	3136	-56.58	-13	-43.58	-75.7	-64.17	1.57	11.31	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 / 15MHz / 16QAM									
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	5016	-53.02	-25	-28.02	-46.01	-62.77	2.35	12.10	H
	7522	-59.45	-25	-34.45	-57.76	-67.41	2.11	10.08	H
	10033	-57.55	-25	-32.55	-59.89	-67.51	1.85	11.81	H
									H
									H
									H
									H
	5016	-46.44	-25	-21.44	-40.05	-56.19	2.35	12.10	V
	7522	-53.10	-25	-28.10	-51.31	-61.06	2.11	10.08	V
	10033	-52.34	-25	-27.34	-53.86	-62.30	1.85	11.81	V
									V
									V
									V
									V
Middle	5072	-49.31	-25	-24.31	-42.47	-59.09	2.33	12.11	H
	7606	-60.66	-25	-35.66	-58.61	-68.93	2.11	10.38	H
	10148.5	-55.19	-25	-30.19	-57.77	-65.02	2.03	11.86	H
									H
									H
									H
									H
	5072	-44.64	-25	-19.64	-38.39	-54.42	2.33	12.11	V
	7606	-53.59	-25	-28.59	-51.58	-61.86	2.11	10.38	V
	10148.5	-49.64	-25	-24.64	-51.58	-59.47	2.03	11.86	V
									V
									V
									V
									V



Highest	5128	-51.57	-25	-26.57	-44.89	-61.39	2.31	12.13	H
	7690	-60.37	-25	-35.37	-58.58	-68.94	2.11	10.68	H
	10247.5	-57.05	-25	-32.05	-59.8	-66.76	2.19	11.90	H
									H
									H
									H
									H
	5128	-49.66	-25	-24.66	-43.56	-59.48	2.31	12.13	V
	7690	-53.78	-25	-28.78	-52.04	-62.35	2.11	10.68	V
	10247.5	-53.89	-25	-28.89	-56.19	-63.60	2.19	11.90	V
									V
									V
									V
									V

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

**LTE Band 2**

LTE Band 2 / 15MHz / 16QAM									
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	3715	-54.77	-13	-41.77	-75.35	-65.06	1.98	12.27	H
	5572	-52.20	-13	-39.20	-75.73	-62.36	2.14	12.30	H
	7430	-48.00	-13	-35.00	-76.05	-55.97	2.16	10.13	H
									H
									H
									H
									H
	3715	-54.78	-13	-41.78	-75.88	-65.07	1.98	12.27	V
	5572	-51.83	-13	-38.83	-76	-61.99	2.14	12.30	V
	7430	-47.52	-13	-34.52	-75.51	-55.49	2.16	10.13	V
									V
									V
									V
									V
Middle	3760	-55.03	-13	-42.03	-75.72	-65.27	2.01	12.24	H
	5640	-52.06	-13	-39.06	-75.72	-62.33	2.12	12.40	H
	7520	-47.79	-13	-34.79	-75.59	-55.75	2.11	10.07	H
									H
									H
									H
									H
	3760	-54.66	-13	-41.66	-75.84	-64.90	2.01	12.24	V
	5640	-51.62	-13	-38.62	-75.91	-61.89	2.12	12.40	V
	7520	-47.64	-13	-34.64	-75.33	-55.60	2.11	10.07	V
									V
									V
									V
									V



Highest	3805	-54.93	-13	-41.93	-75.72	-65.12	2.03	12.22	H
	5707	-52.23	-13	-39.23	-76.21	-62.61	2.11	12.49	H
	7610	-48.34	-13	-35.34	-75.62	-56.62	2.11	10.40	H
									H
									H
									H
									H
	3805	-53.45	-13	-40.45	-74.71	-63.64	2.03	12.22	V
	5707	-51.85	-13	-38.85	-76.4	-62.23	2.11	12.49	V
	7610	-48.12	-13	-35.12	-75.44	-56.40	2.11	10.40	V
									V
									V
									V
									V

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

**LTE Band 5**

LTE Band 5 / 5MHz / 16QAM									
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	1656	-53.59	-13	-40.59	-66.58	-59.00	1.23	8.79	H
	2484	-58.78	-13	-45.78	-75.58	-65.68	1.44	10.49	H
	3312	-57.41	-13	-44.41	-75.91	-65.38	1.72	11.84	H
									H
									H
									H
									H
	1656	-57.50	-13	-44.50	-70.36	-62.91	1.23	8.79	V
	2484	-58.63	-13	-45.63	-75.67	-65.53	1.44	10.49	V
	3312	-57.06	-13	-44.06	-76	-65.03	1.72	11.84	V
									V
									V
									V
									V
Middle	1672	-57.16	-13	-44.16	-70.18	-62.63	1.24	8.85	H
	2508	-58.94	-13	-45.94	-75.7	-65.86	1.44	10.51	H
	3344	-57.23	-13	-44.23	-75.53	-65.27	1.74	11.93	H
									H
									H
									H
									H
	1672	-59.66	-13	-46.66	-72.57	-65.13	1.24	8.85	V
	2508	-58.72	-13	-45.72	-75.68	-65.64	1.44	10.51	V
	3344	-56.99	-13	-43.99	-75.82	-65.03	1.74	11.93	V
									V
									V
									V
									V



Highest	1696	-59.52	-13	-46.52	-72.58	-65.07	1.24	8.94	H
	2544	-58.61	-13	-45.61	-75.44	-65.55	1.44	10.54	H
	3392	-57.70	-13	-44.70	-75.72	-65.84	1.78	12.08	H
									H
									H
									H
									H
	1696	-60.31	-13	-47.31	-73.28	-65.86	1.24	8.94	V
	2544	-58.71	-13	-45.71	-75.75	-65.65	1.44	10.54	V
	3392	-57.07	-13	-44.07	-75.74	-65.21	1.78	12.08	V
									V
									V
									V
									V

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