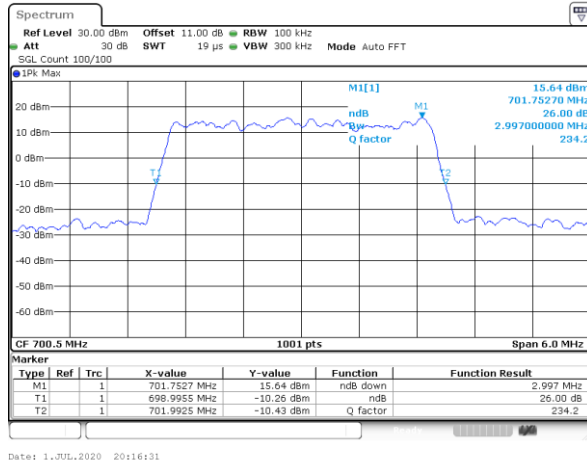


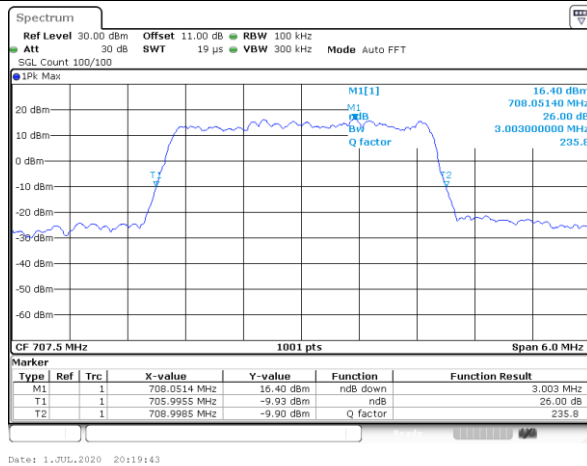


LTE Band 12

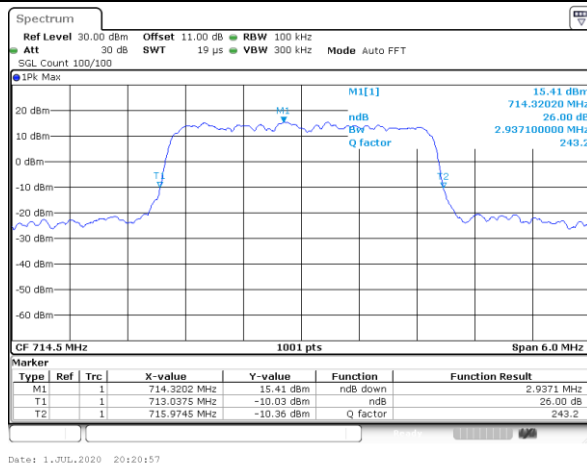
Lowest Channel / 3MHz / 16QAM



Middle Channel / 3MHz / 16QAM



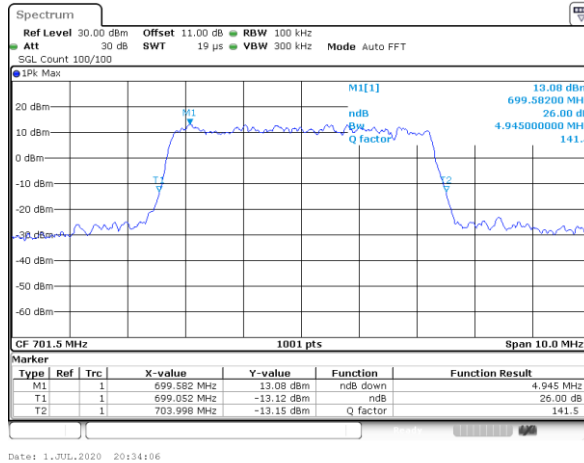
Highest Channel / 3MHz / 16QAM



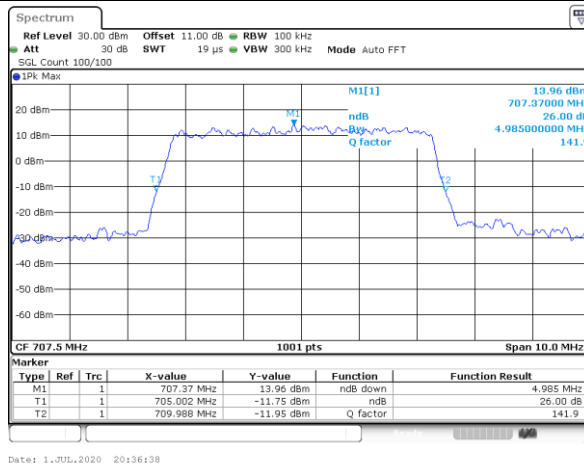


LTE Band 12

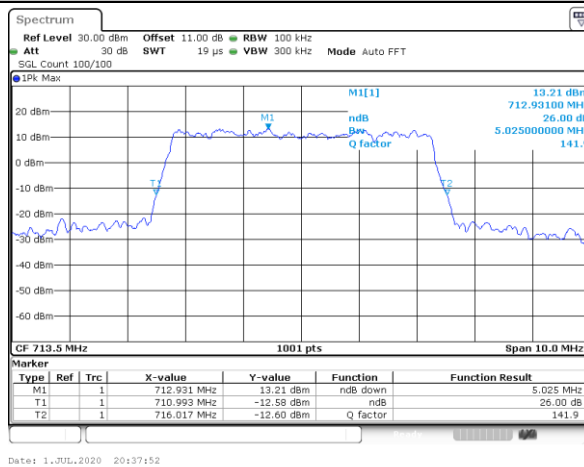
Lowest Channel / 5MHz / 16QAM



Middle Channel / 5MHz / 16QAM



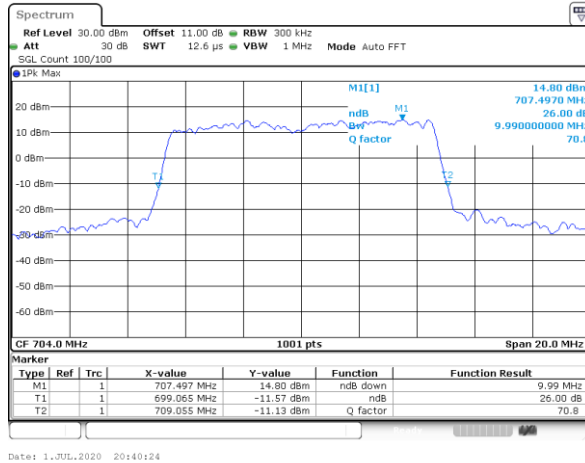
Highest Channel / 5MHz / 16QAM



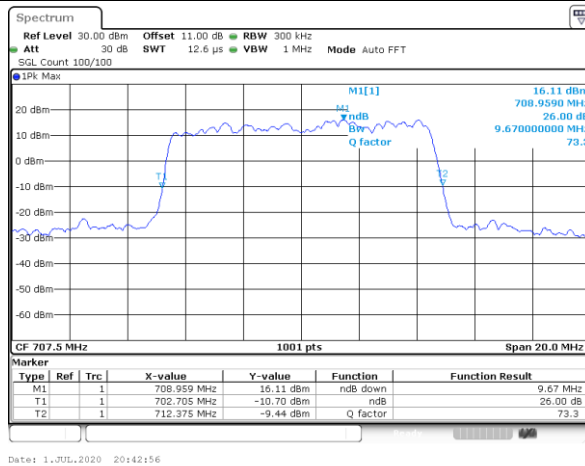


LTE Band 12

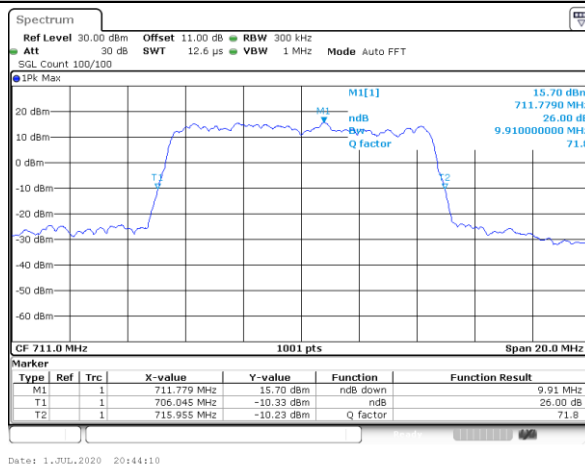
Lowest Channel / 10MHz / 16QAM



Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / 16QAM





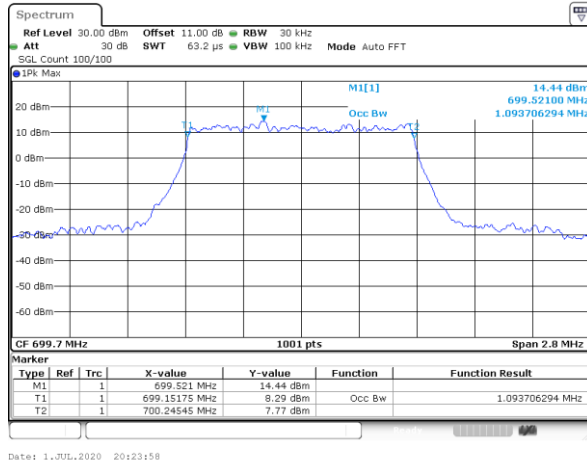
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
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	-	-	-	-

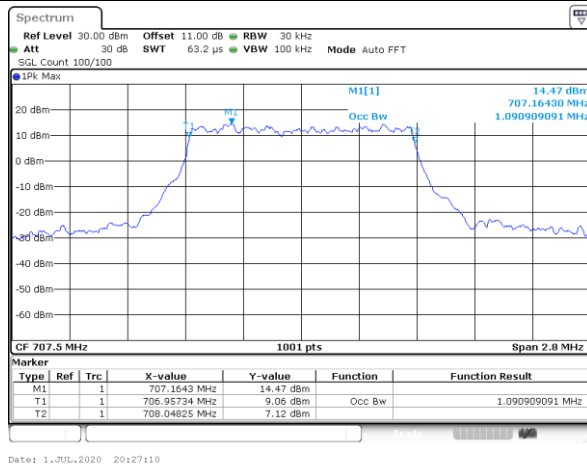


LTE Band 12

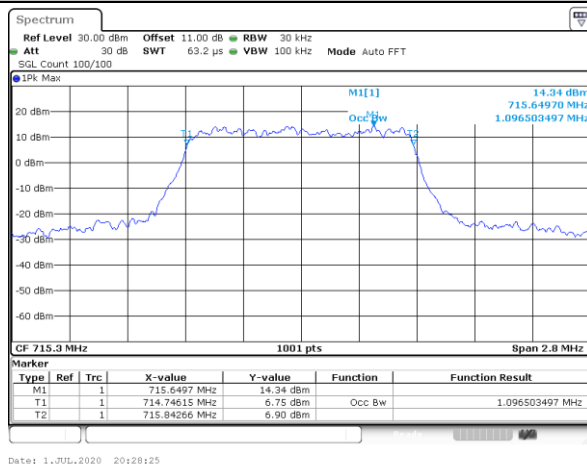
Lowest Channel / 1.4MHz / 16QAM



Middle Channel / 1.4MHz / 16QAM



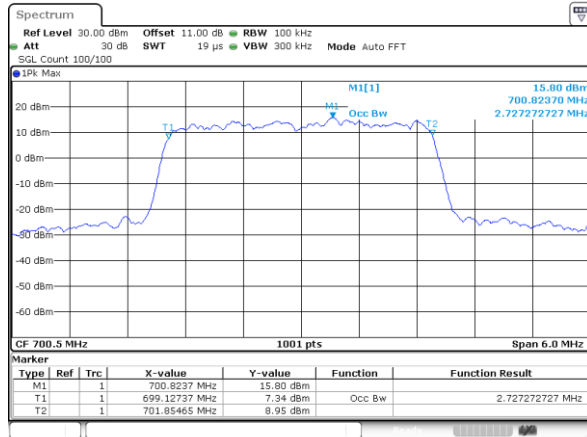
Highest Channel / 1.4MHz / 16QAM





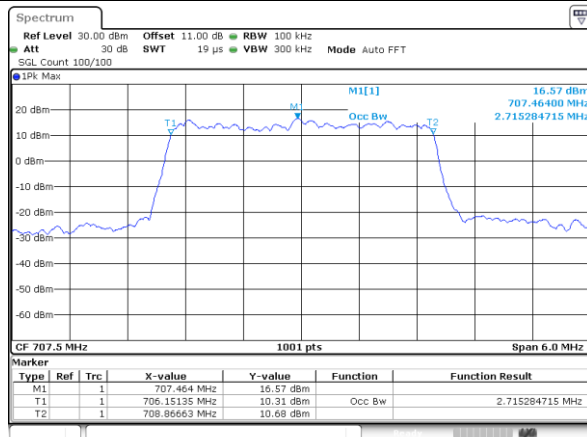
LTE Band 12

Lowest Channel / 3MHz / 16QAM



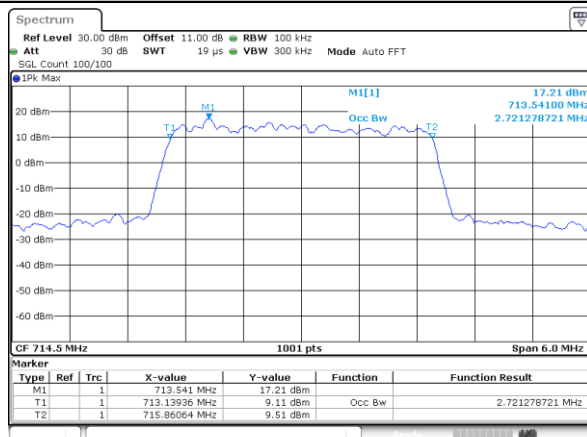
Date: 1.JUL.2020 20:16:20

Middle Channel / 3MHz / 16QAM



Date: 1.JUL.2020 20:19:52

Highest Channel / 3MHz / 16QAM

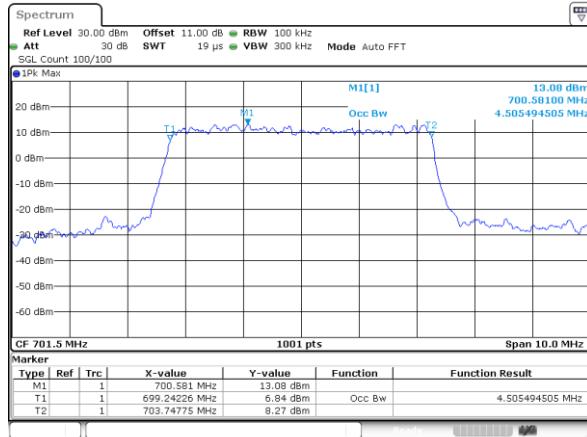


Date: 1.JUL.2020 20:20:46



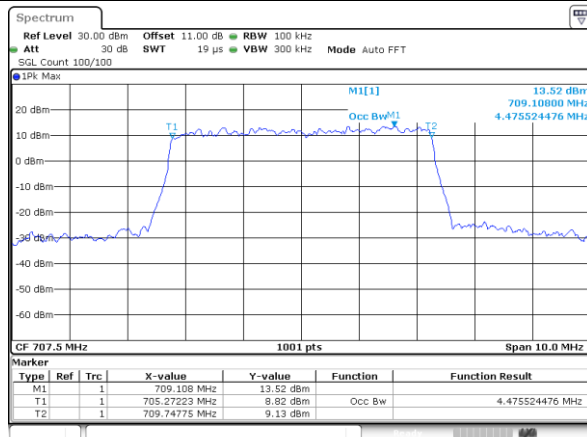
LTE Band 12

Lowest Channel / 5MHz / 16QAM



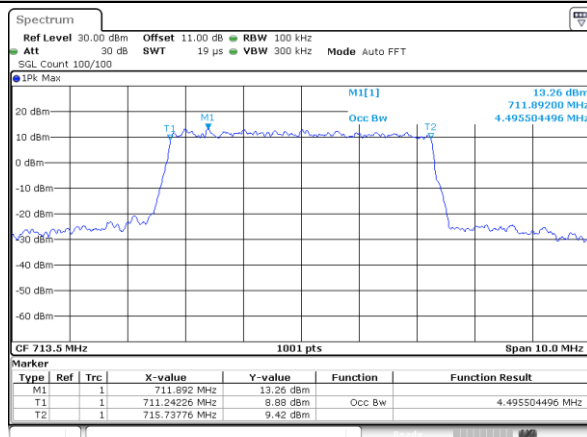
Date: 1.JUL.2020 20:33:55

Middle Channel / 5MHz / 16QAM



Date: 1.JUL.2020 20:36:27

Highest Channel / 5MHz / 16QAM

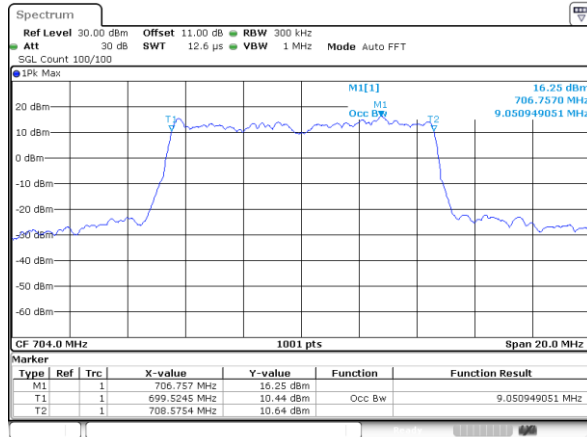


Date: 1.JUL.2020 20:37:41



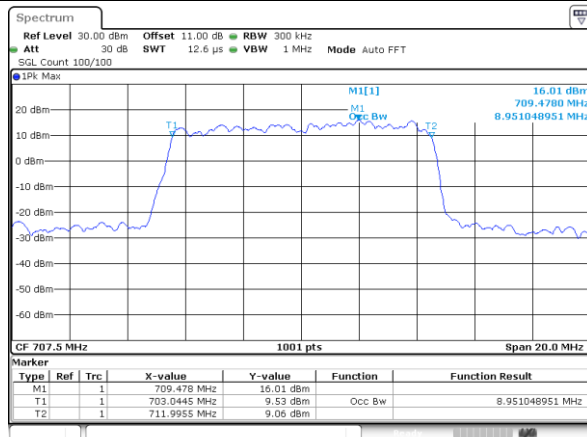
LTE Band 12

Lowest Channel / 10MHz / 16QAM



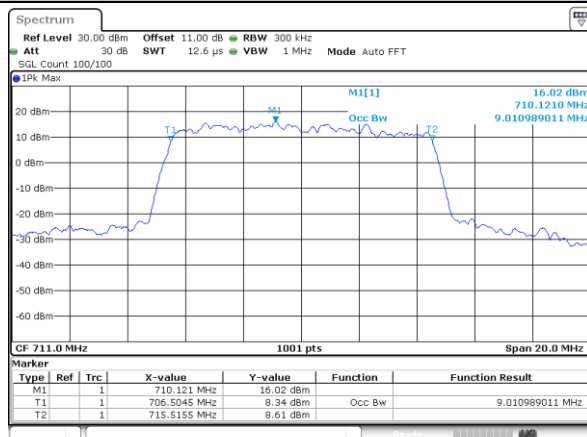
Date: 1.JUL.2020 20:40:13

Middle Channel / 10MHz / 16QAM



Date: 1.JUL.2020 20:42:44

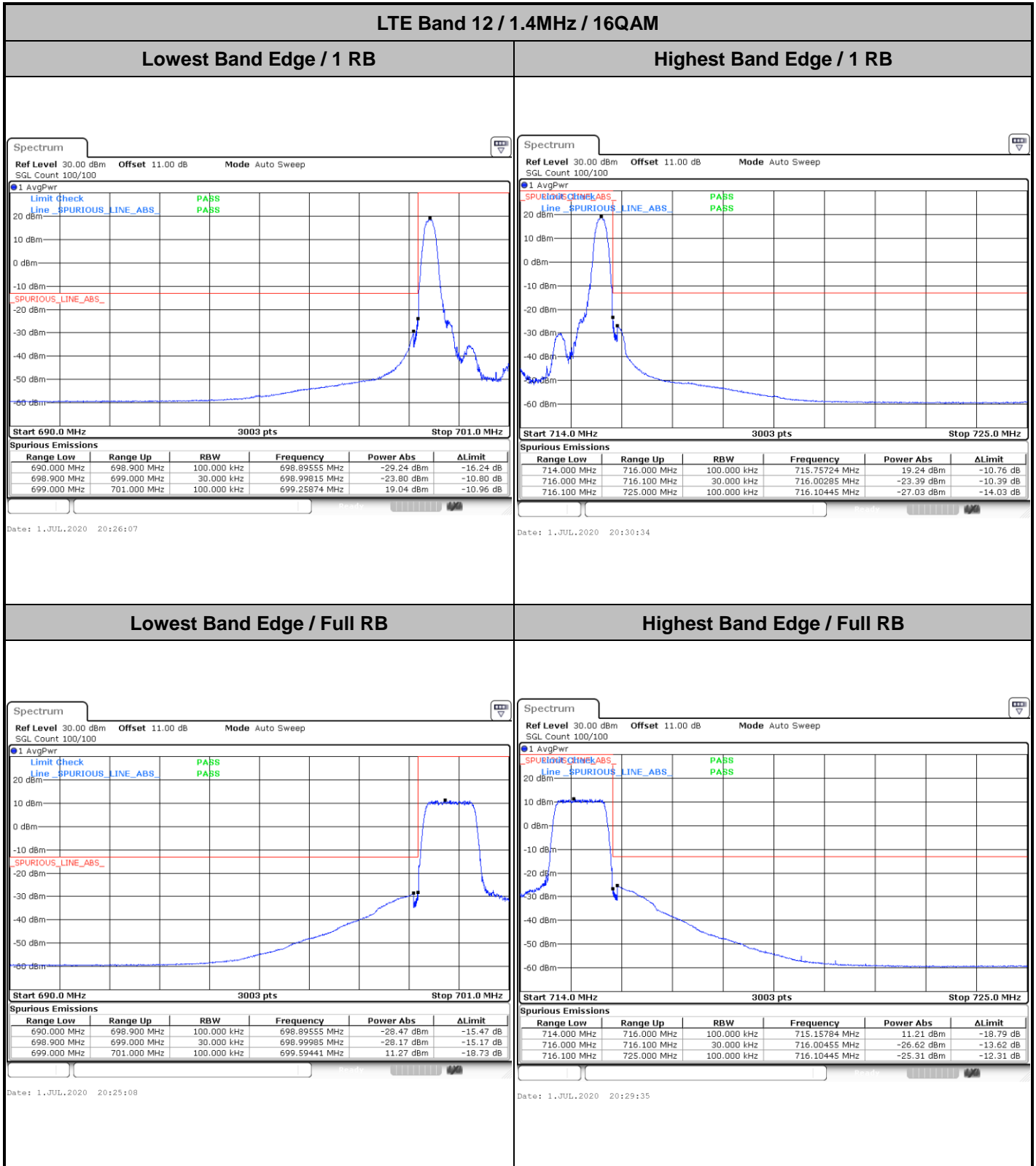
Highest Channel / 10MHz / 16QAM



Date: 1.JUL.2020 20:43:59



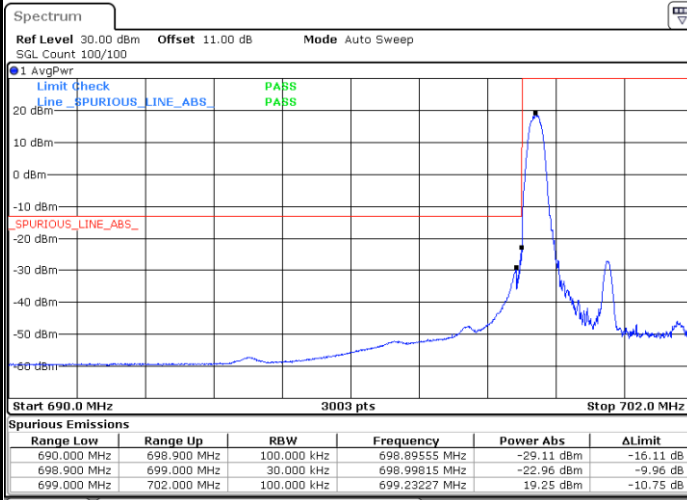
Conducted Band Edge





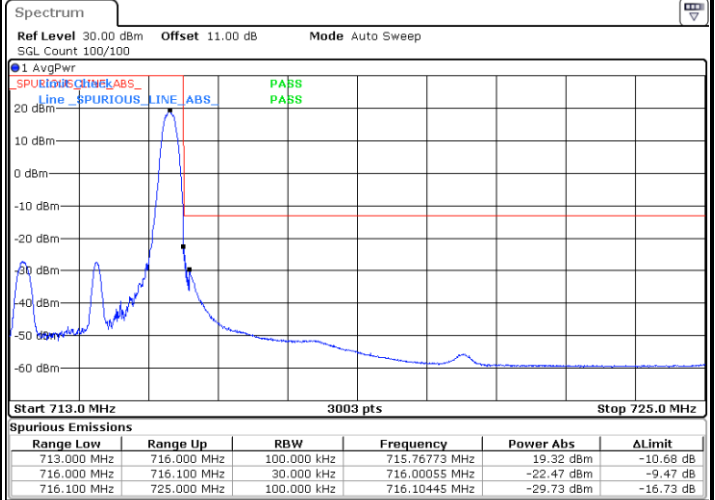
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



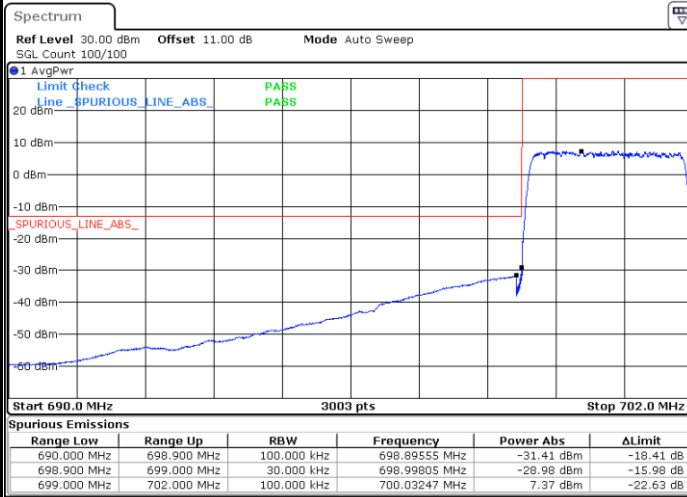
Date: 1.JUL.2020 20:18:29

Highest Band Edge / 1 RB



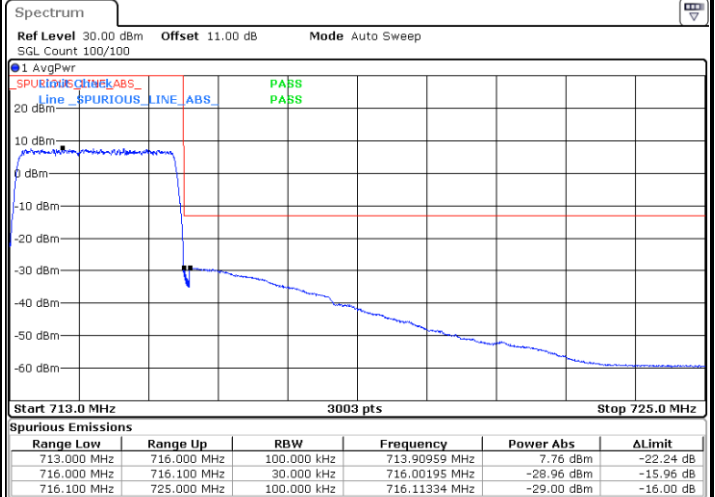
Date: 1.JUL.2020 20:22:55

Lowest Band Edge / Full RB



Date: 1.JUL.2020 20:17:30

Highest Band Edge / Full RB

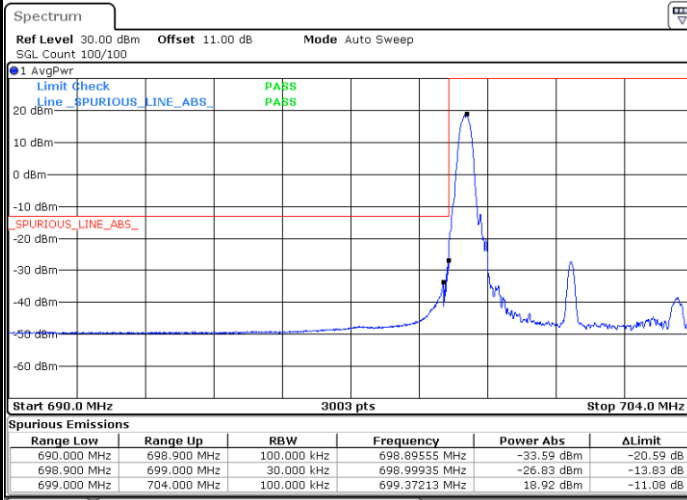


Date: 1.JUL.2020 20:21:56



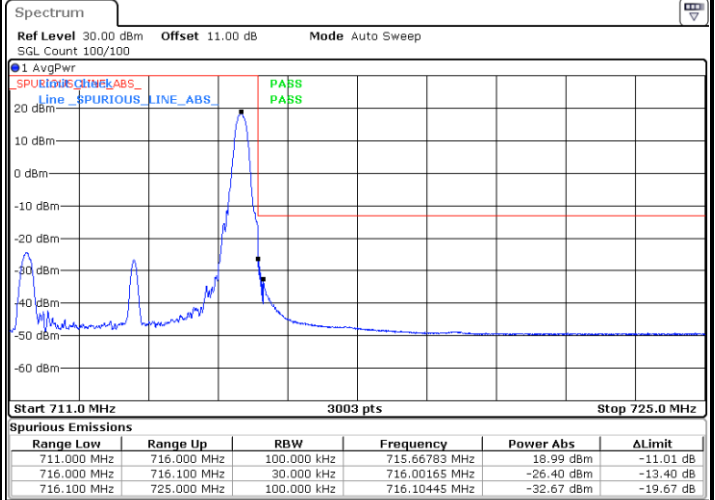
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



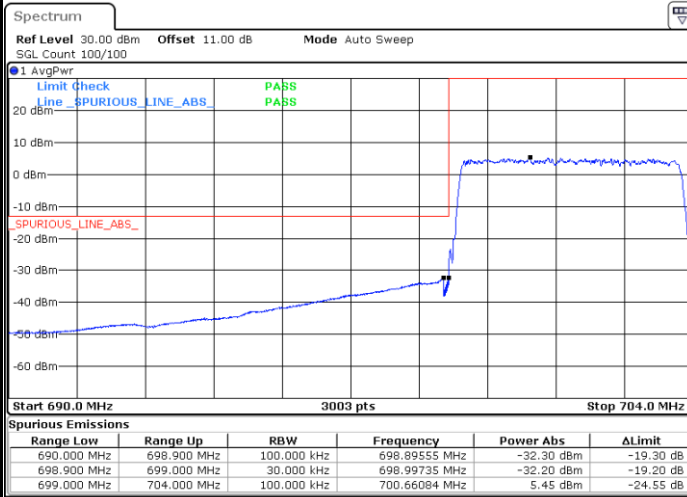
Date: 1.JUL.2020 20:35:24

Highest Band Edge / 1 RB



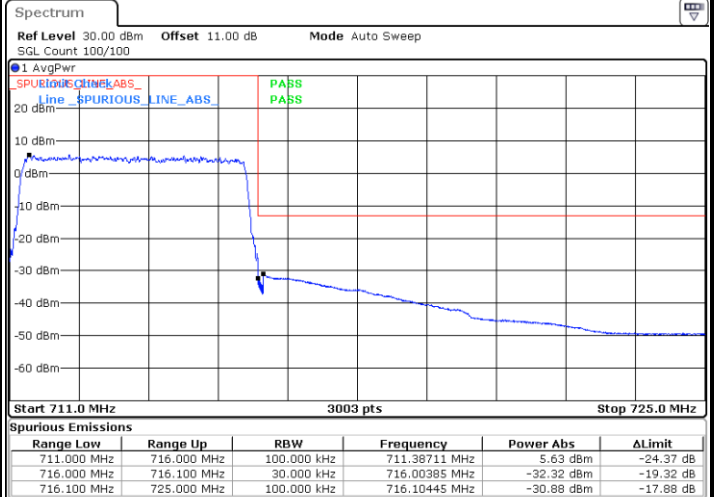
Date: 1.JUL.2020 20:39:10

Lowest Band Edge / Full RB



Date: 1.JUL.2020 20:34:45

Highest Band Edge / Full RB

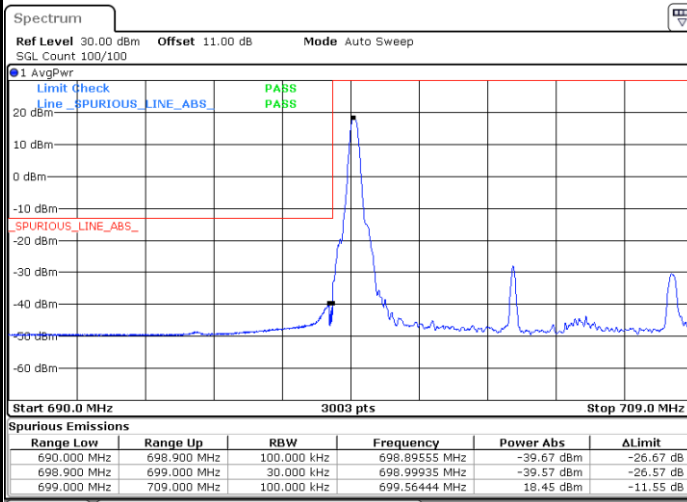


Date: 1.JUL.2020 20:38:31



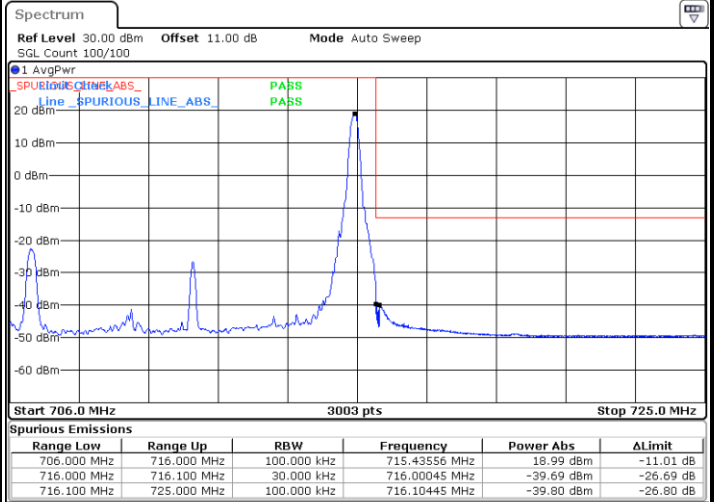
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



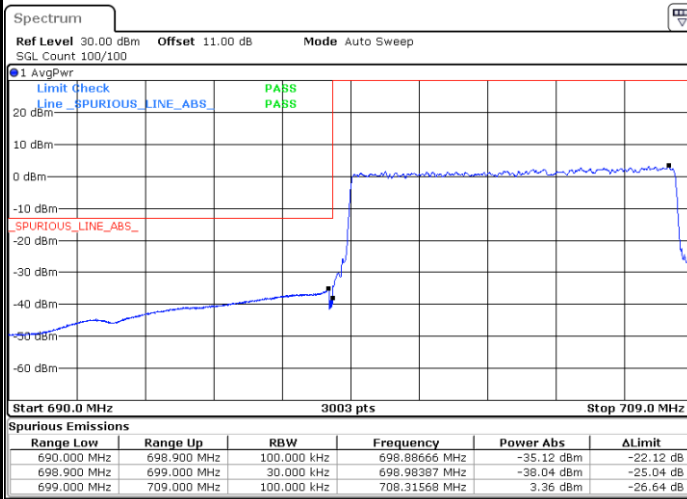
Date: 1.JUL.2020 20:41:42

Highest Band Edge / 1 RB



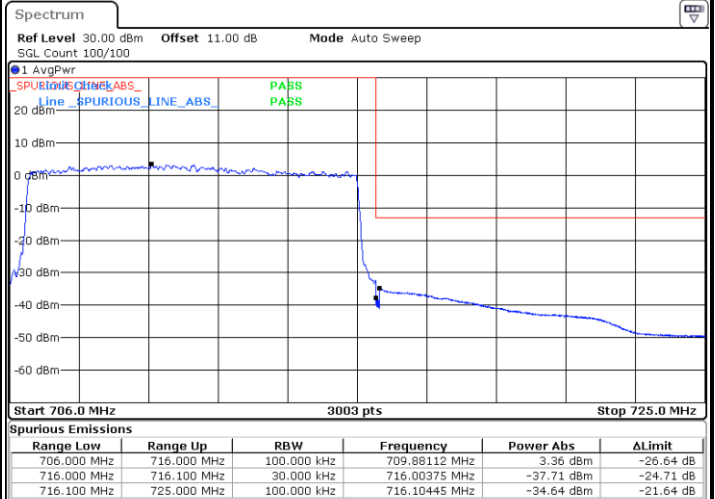
Date: 1.JUL.2020 20:45:28

Lowest Band Edge / Full RB



Date: 1.JUL.2020 20:41:03

Highest Band Edge / Full RB



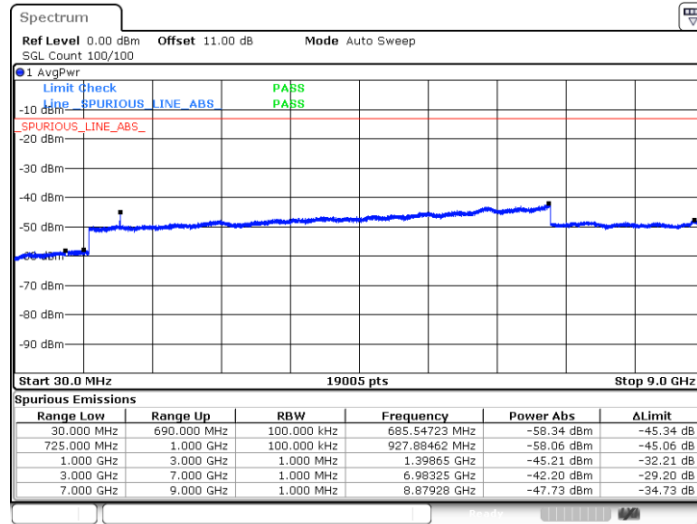
Date: 1.JUL.2020 20:44:49



Conducted Spurious Emission

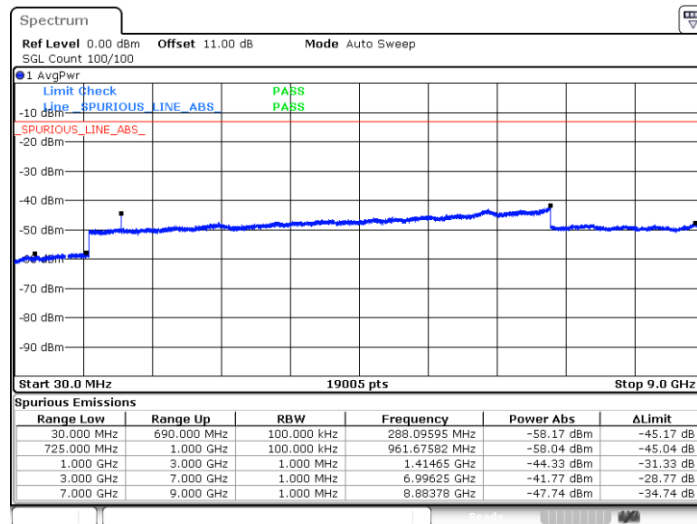
LTE Band 12 / 1.4MHz

Lowest Channel / 16QAM



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

Middle Channel / 16QAM

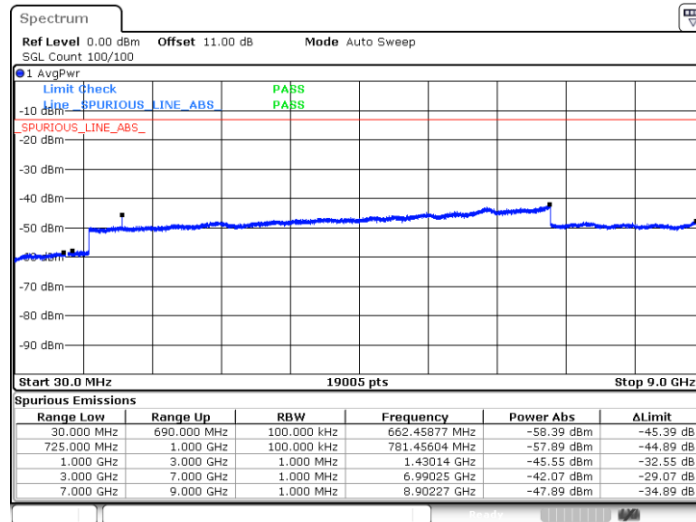


Date: 1.JUL.2020 20:28:13



LTE Band 12 / 1.4MHz

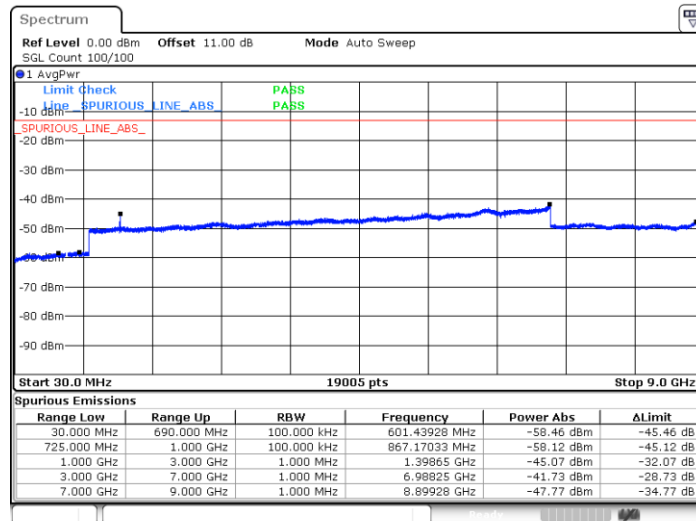
Highest Channel / 16QAM



Date: 1.JUL.2020 20:31:26

LTE Band 12 / 3MHz

Lowest Channel / 16QAM

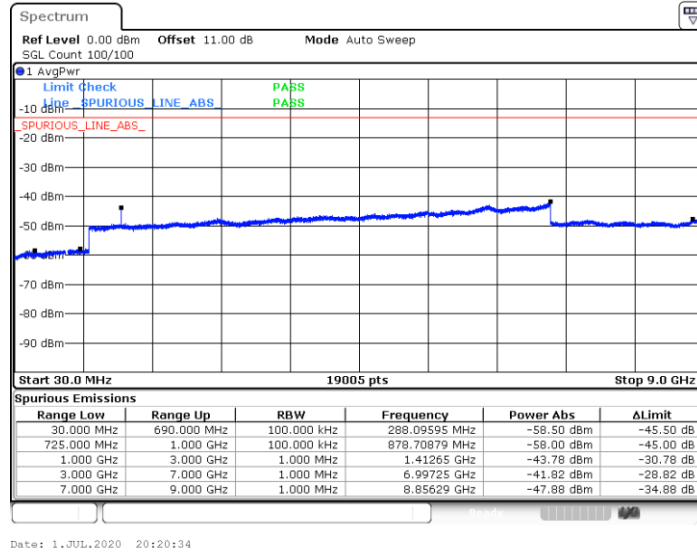


Date: 1.JUL.2020 20:19:20

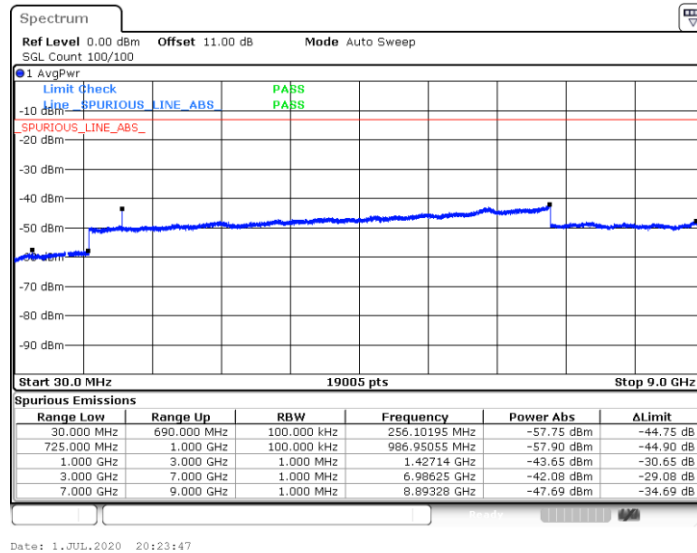


LTE Band 12 / 3MHz

Middle Channel / 16QAM



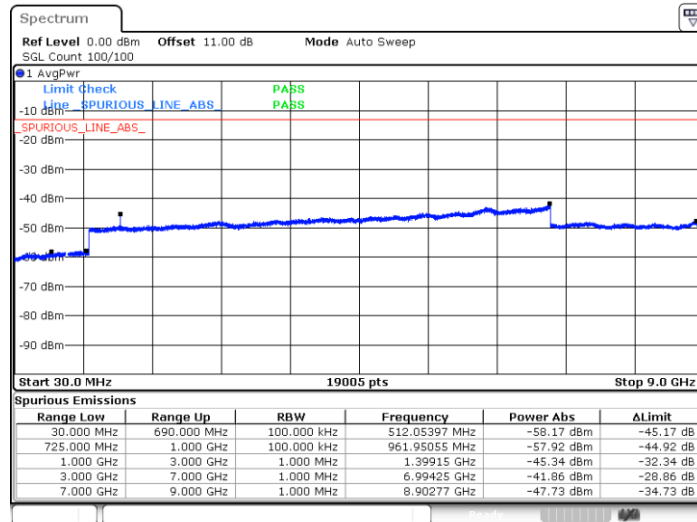
Highest Channel / 16QAM





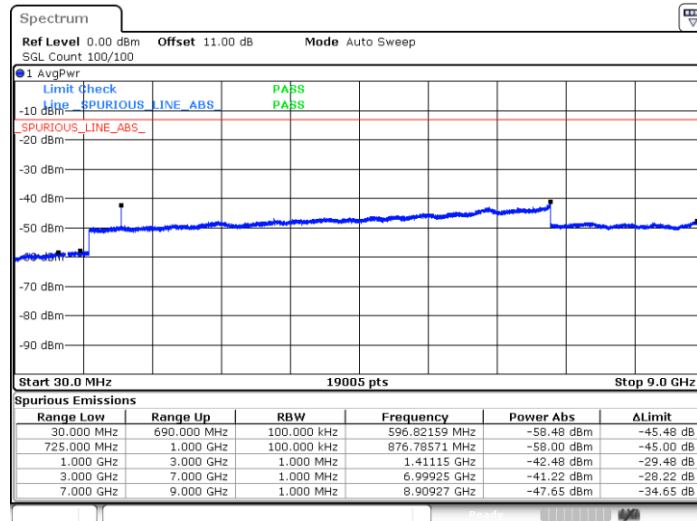
LTE Band 12 / 5MHz

Lowest Channel / 16QAM



Date: 1.JUL.2020 20:36:15

Middle Channel / 16QAM

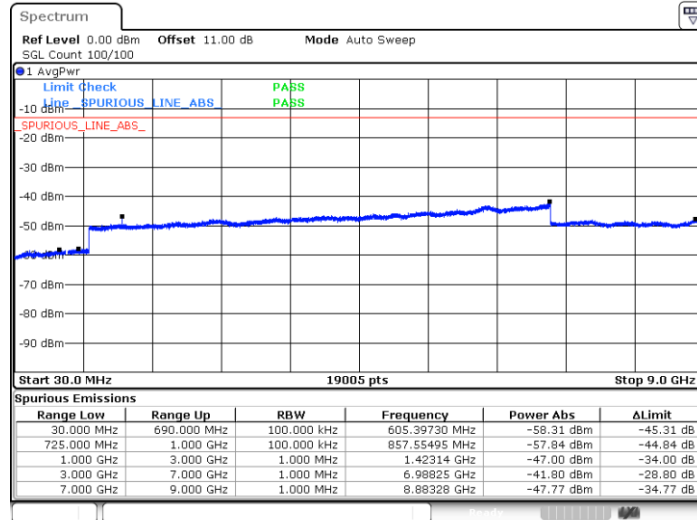


Date: 1.JUL.2020 20:37:29



LTE Band 12 / 5MHz

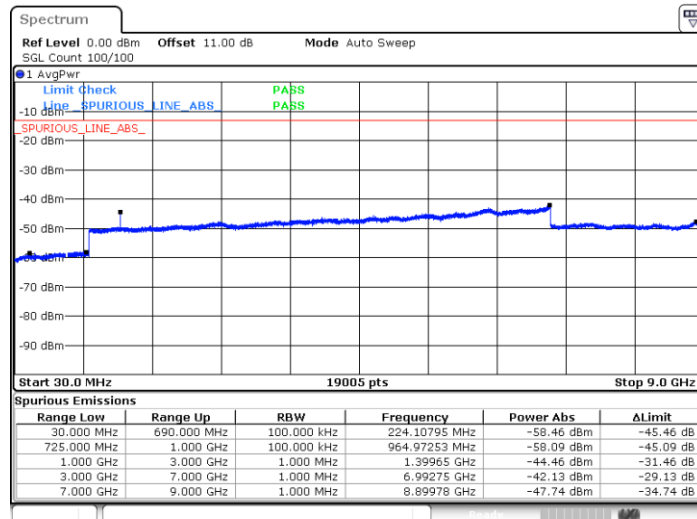
Highest Channel / 16QAM



Date: 1.JUL.2020 20:40:01

LTE Band 12 / 10MHz

Lowest Channel / 16QAM

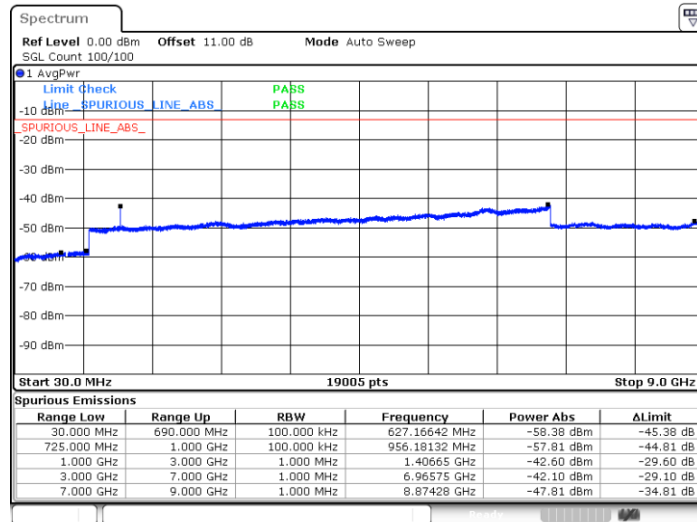


Date: 1.JUL.2020 20:42:33



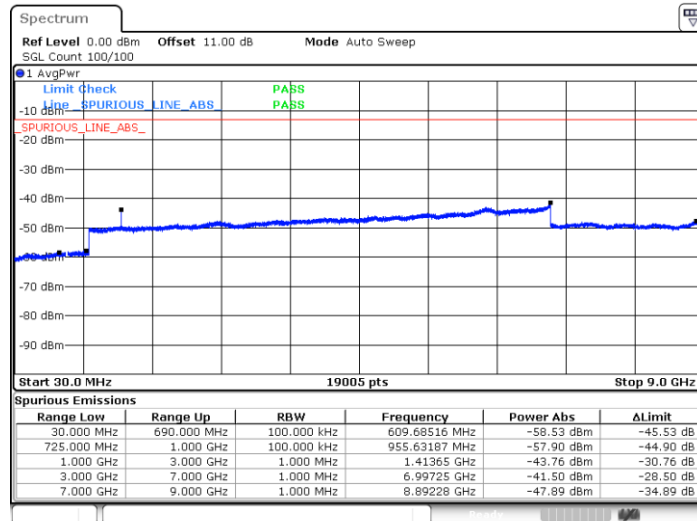
LTE Band 12 / 10MHz

Middle Channel / 16QAM



Date: 1.JUL.2020 20:43:48

Highest Channel / 16QAM



Date: 1.JUL.2020 20:46:19



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

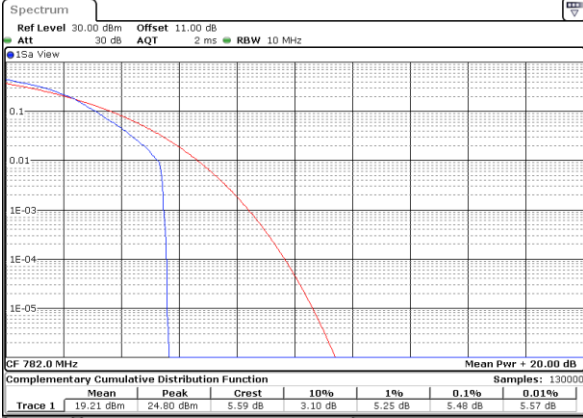
Peak-to-Average Ratio

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	-	-	-	-	



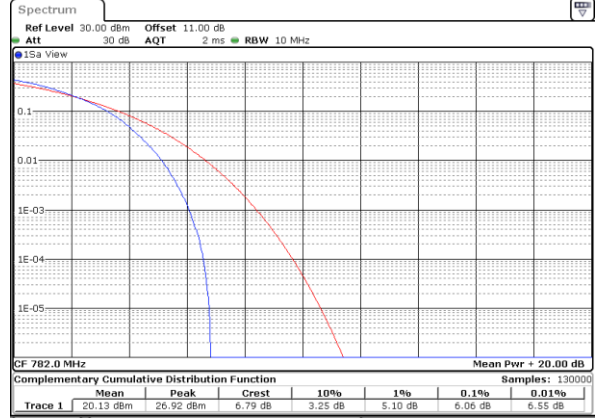
LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 22 JUN 2020 22:15:51

Middle Channel / Full RB



Date: 22 JUN 2020 22:16:02



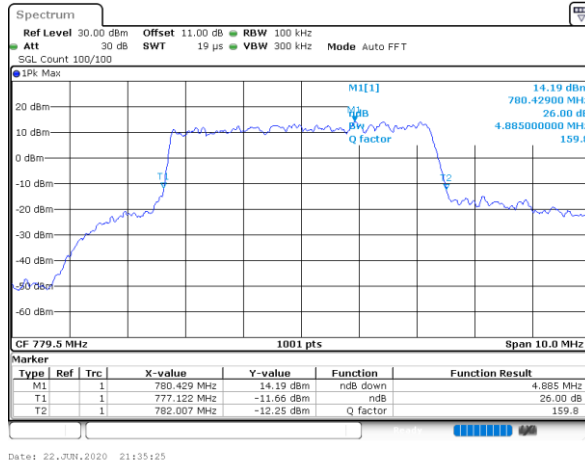
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
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	-	-	-	-	-	-

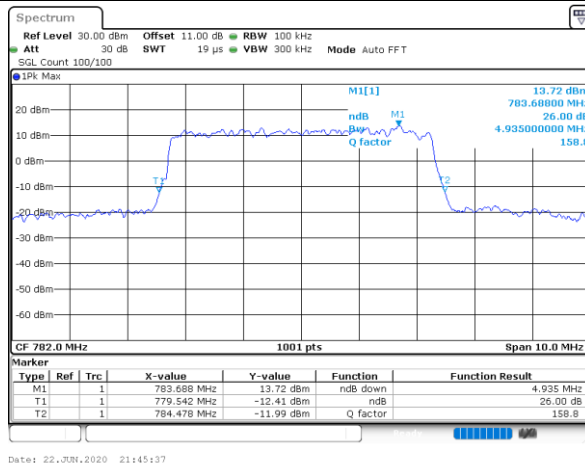


LTE Band 13

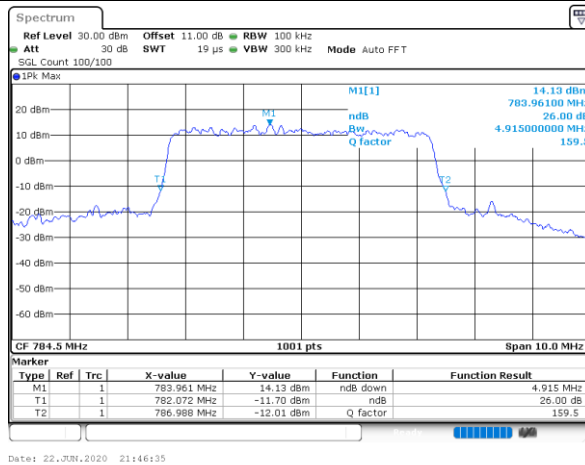
Lowest Channel / 5MHz / 16QAM



Middle Channel / 5MHz / 16QAM



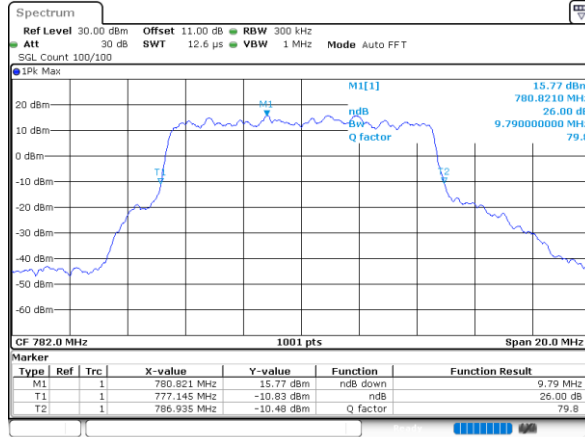
Highest Channel / 5MHz / 16QAM





LTE Band 13

Middle Channel / 10MHz / 16QAM



Date: 22 JUN 2020 21:55:32



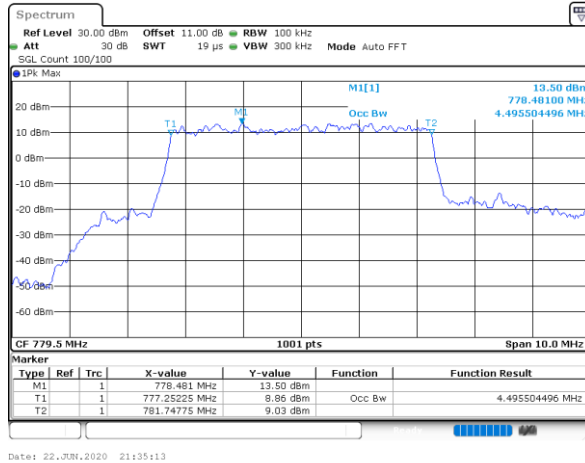
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
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	-	-	-	-	-	-



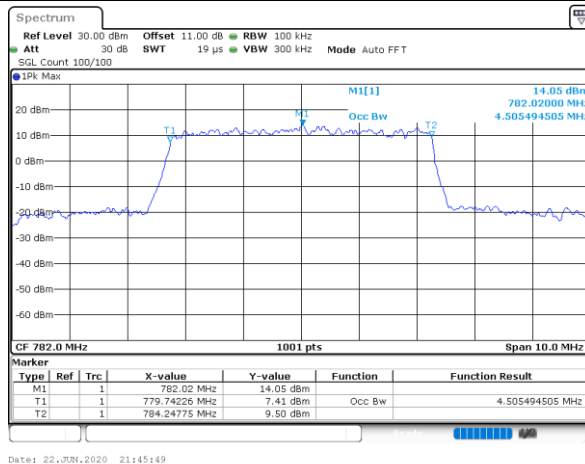
LTE Band 13

Lowest Channel / 5MHz / 16QAM



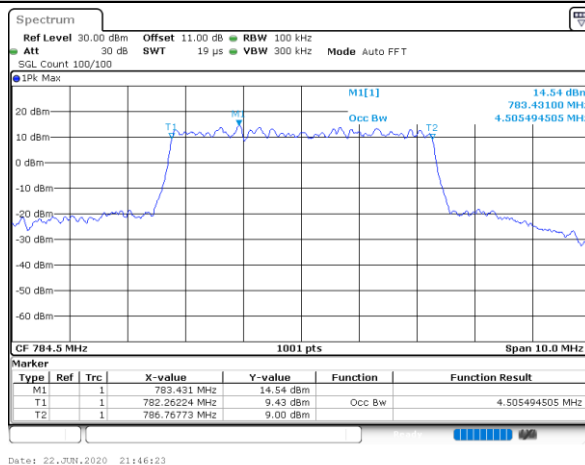
Date: 22 JUN 2020 21:35:13

Middle Channel / 5MHz / 16QAM



Date: 22 JUN 2020 21:45:49

Highest Channel / 5MHz / 16QAM

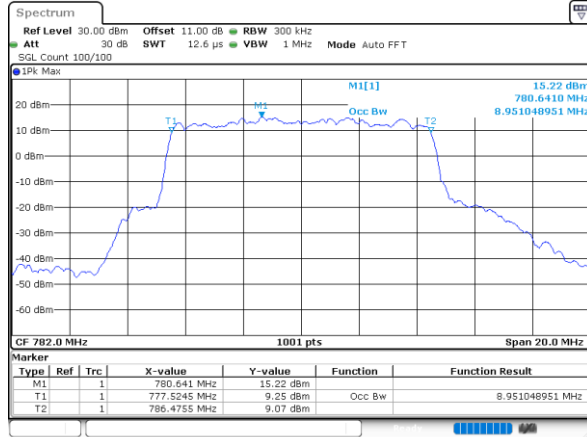


Date: 22 JUN 2020 21:46:23



LTE Band 13

Middle Channel / 10MHz / 16QAM



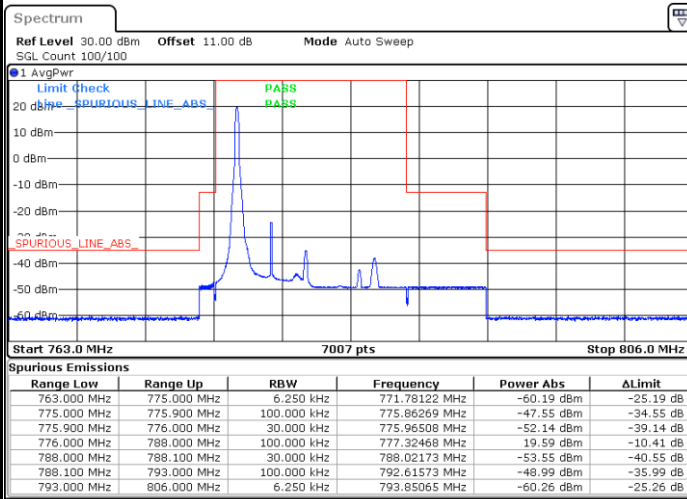
Date: 22 JUN 2020 21:55:21



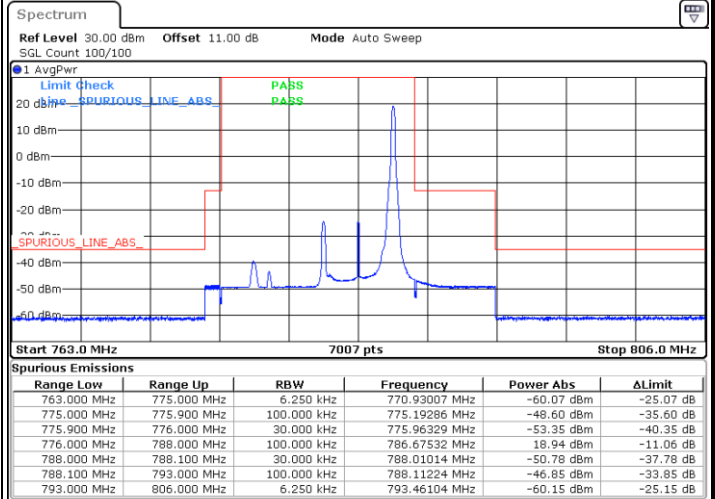
Conducted Band Edge

LTE Band 13 / 5MHz / 16QAM

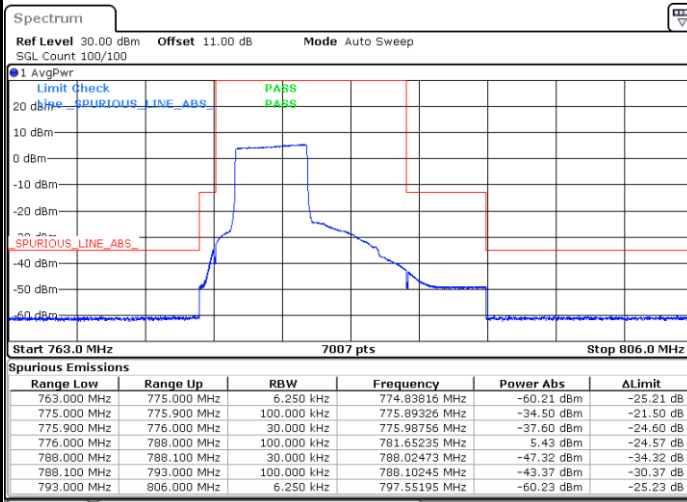
Lowest Band Edge / 1 RB



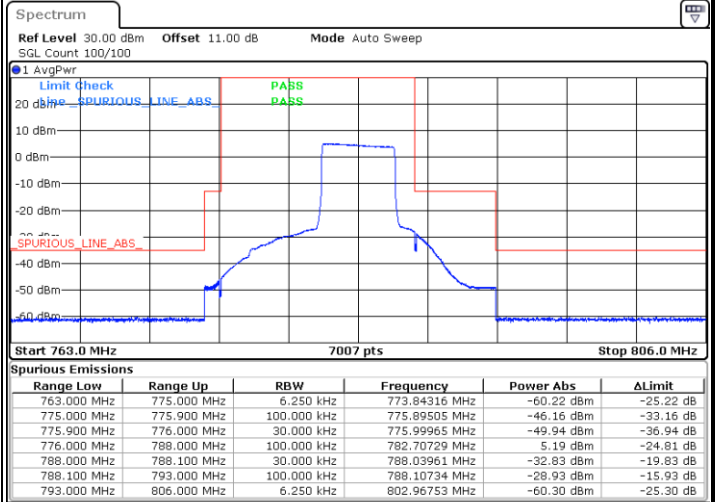
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

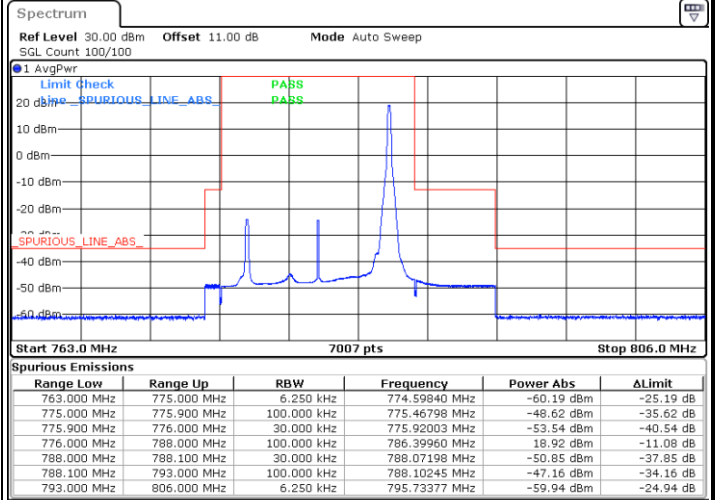
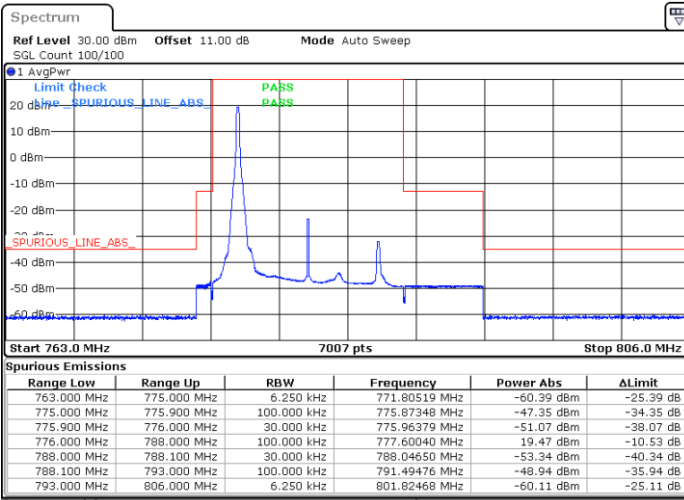




LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

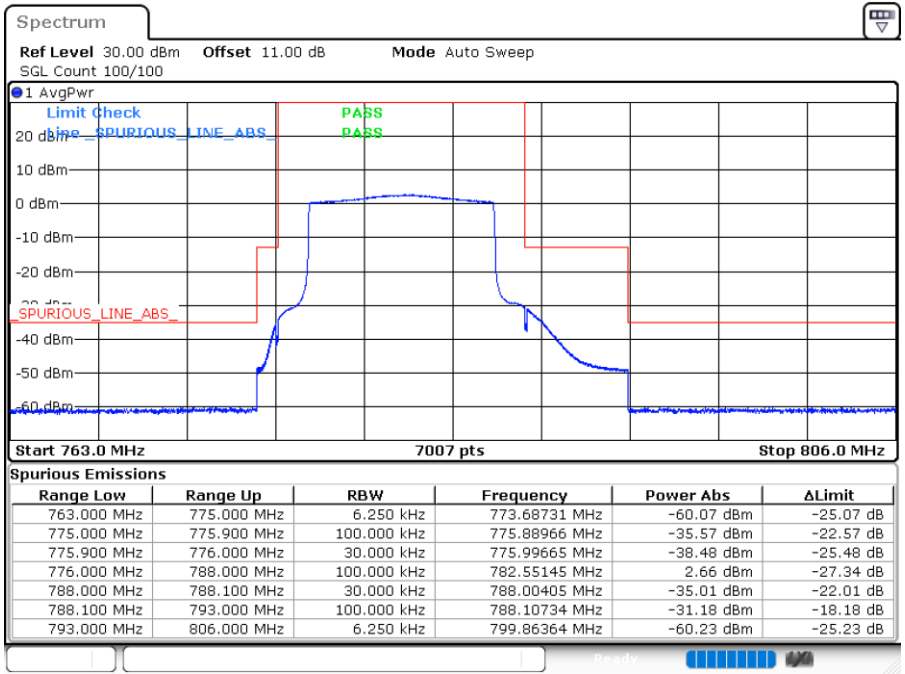
Highest Band Edge / 1 RB



Date: 22 JUN 2020 22:00:41

Date: 22 JUN 2020 22:05:40

Band Edge / Full RB



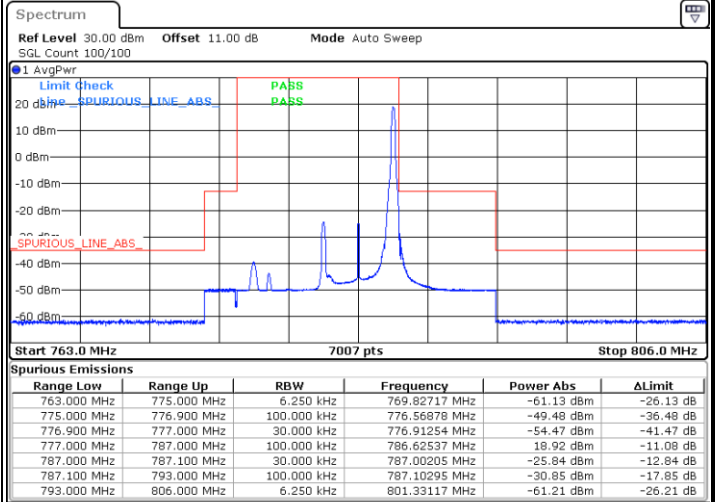
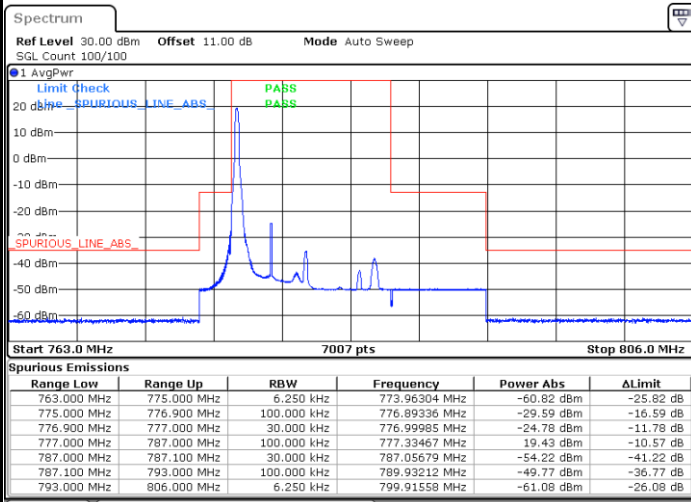
Date: 22 JUN 2020 21:59:02



IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

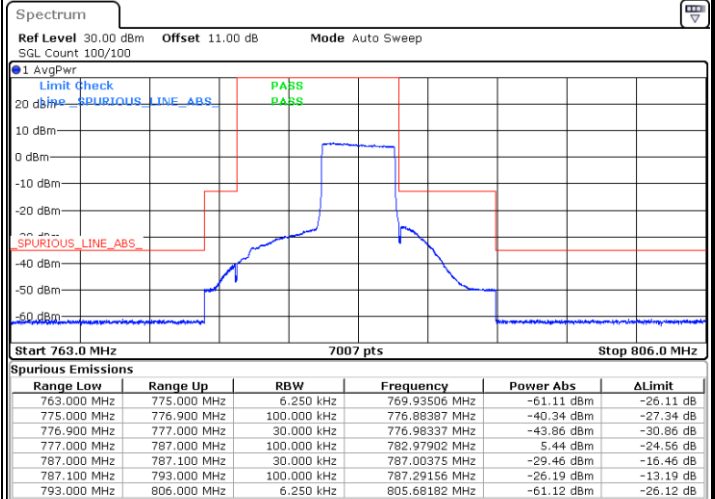
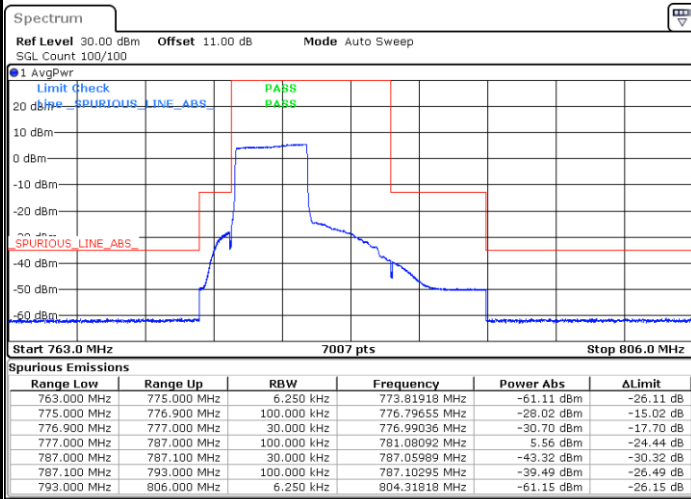


Date: 23 JUN.2020 20:58:20

Date: 23 JUN.2020 21:01:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 23 JUN.2020 20:56:41

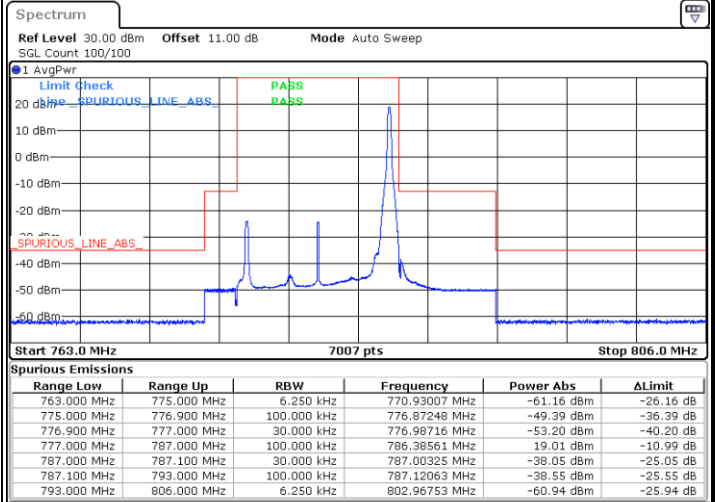
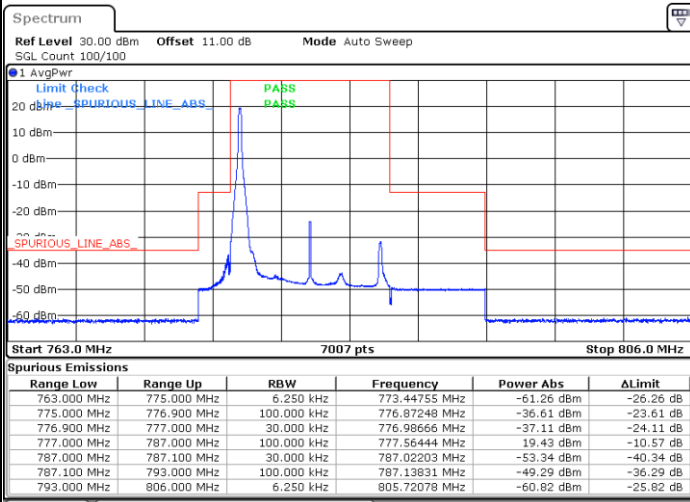
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IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

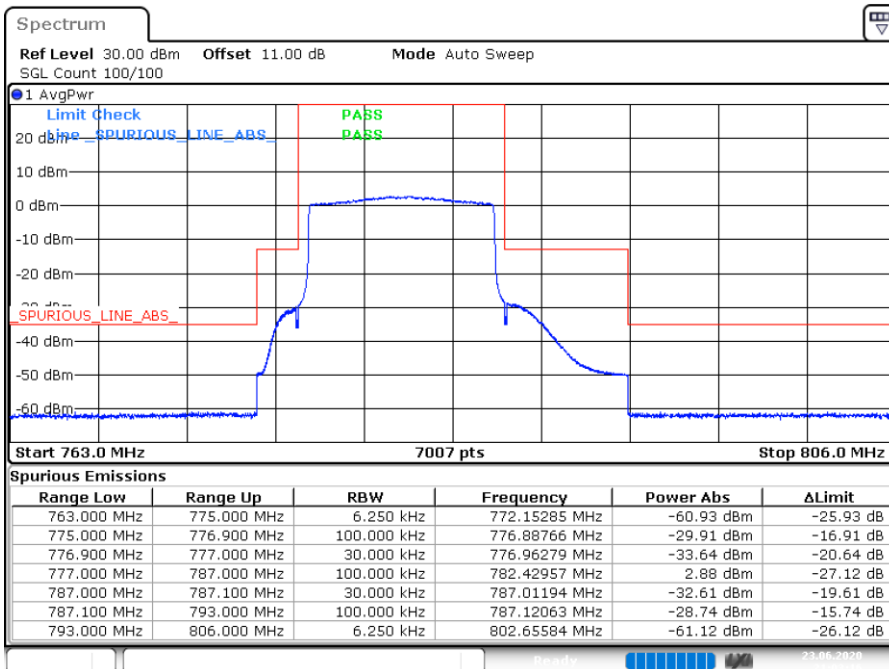
Highest Band Edge / 1 RB



Date: 23.JUN.2020 21:04:56

Date: 23.JUN.2020 21:06:34

Band Edge / Full RB



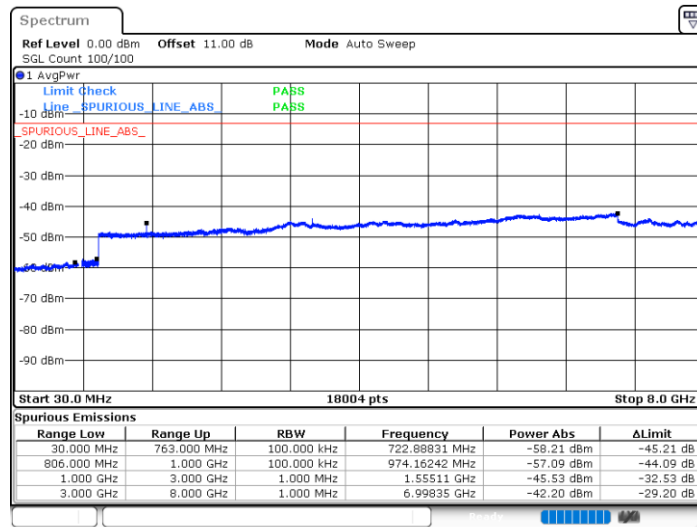
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Conducted Spurious Emission

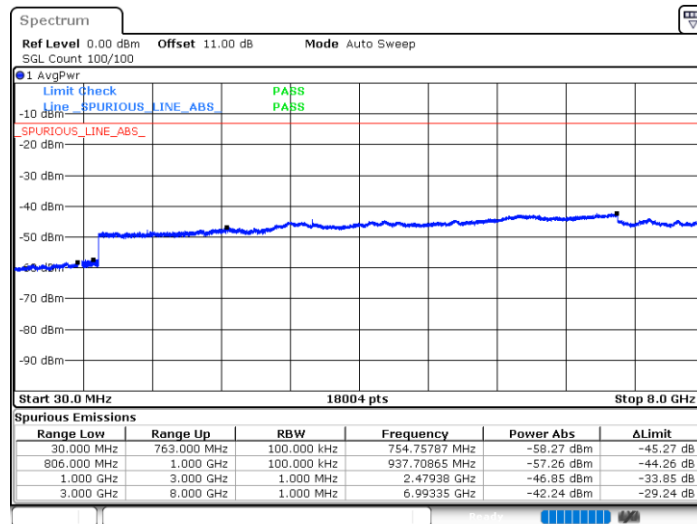
LTE Band 13 / 5MHz

Lowest Channel / 16QAM



Date: 22.JUN.2020 21:43:47

Middle Channel / 16QAM

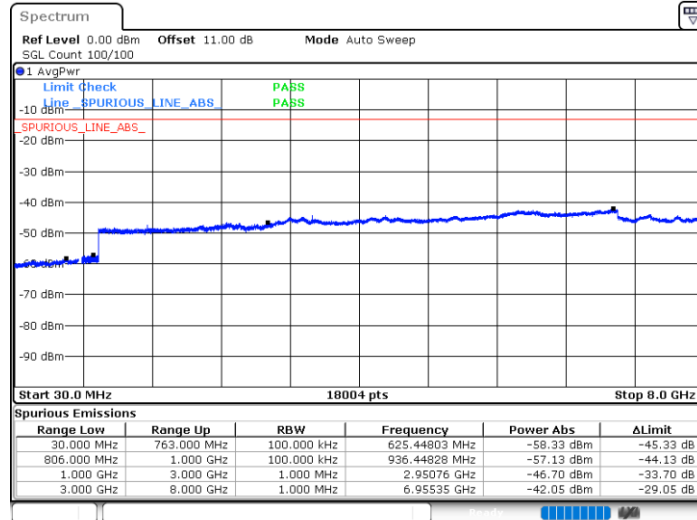


Date: 22.JUN.2020 21:44:31



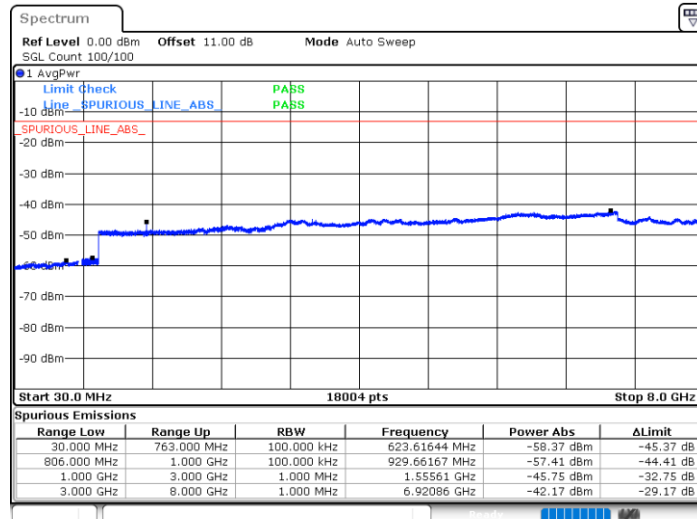
LTE Band 13 / 5MHz

Highest Channel / 16QAM



Date: 22.JUN.2020 21:54:58

Middle Channel / 16QAM



Date: 22.JUN.2020 22:06:26



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.