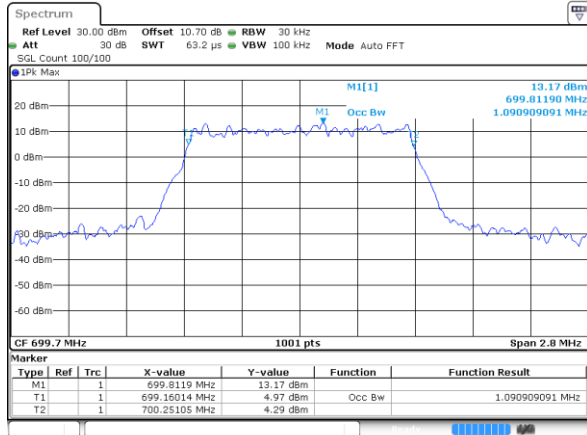


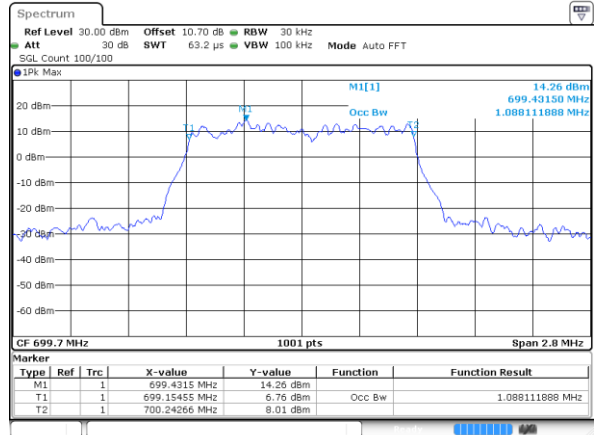


LTE Band 12

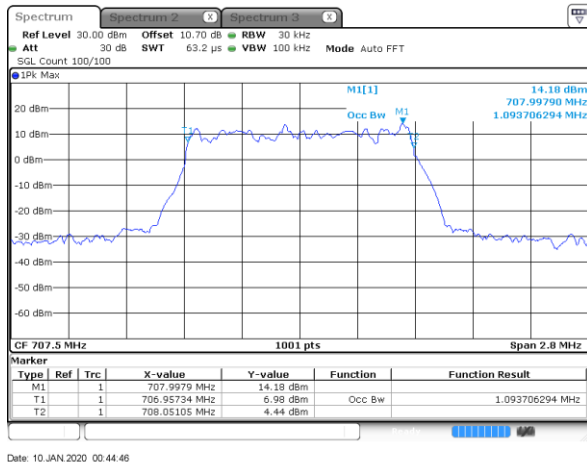
Lowest Channel / 1.4MHz / QPSK



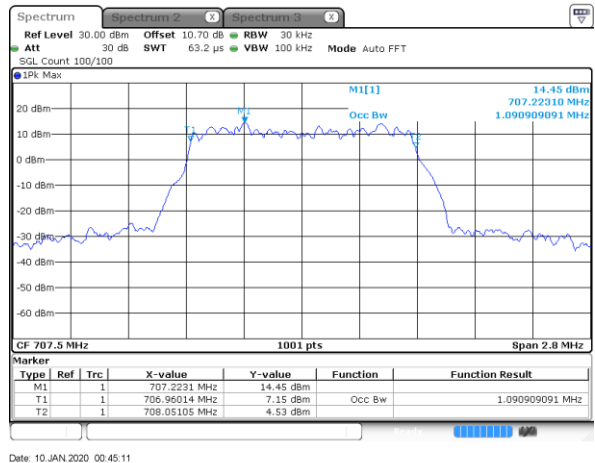
Lowest Channel / 1.4MHz / 16QAM



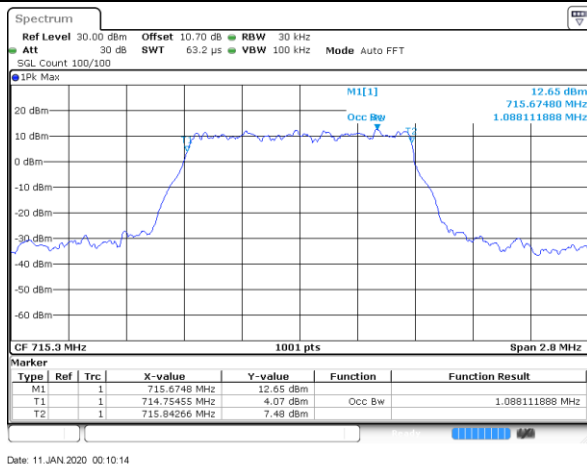
Middle Channel / 1.4MHz / QPSK



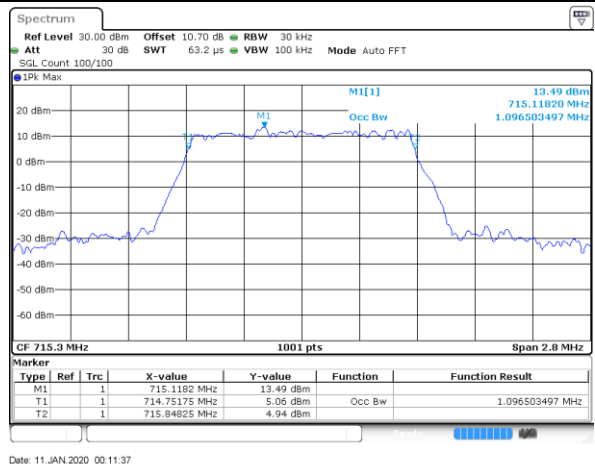
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



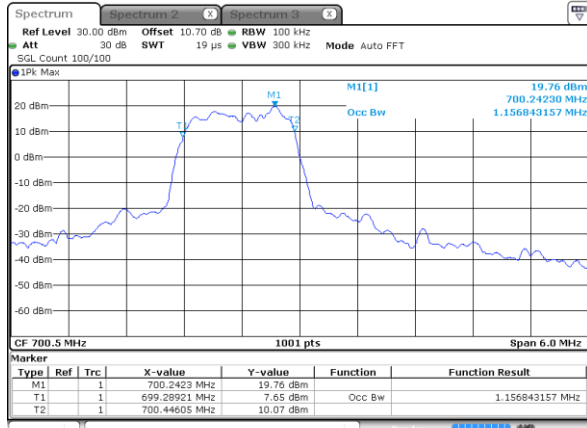
Highest Channel / 1.4MHz / 16QAM



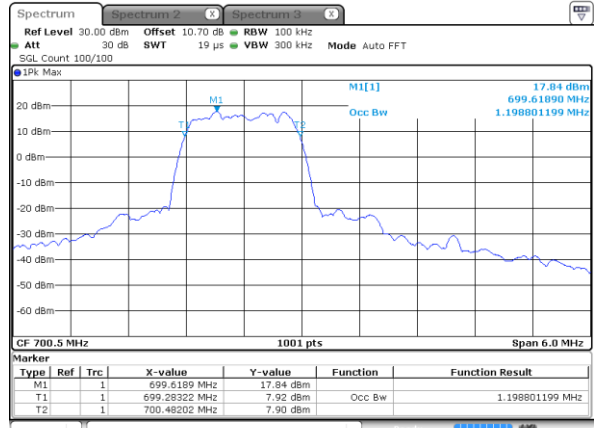


LTE Band 12

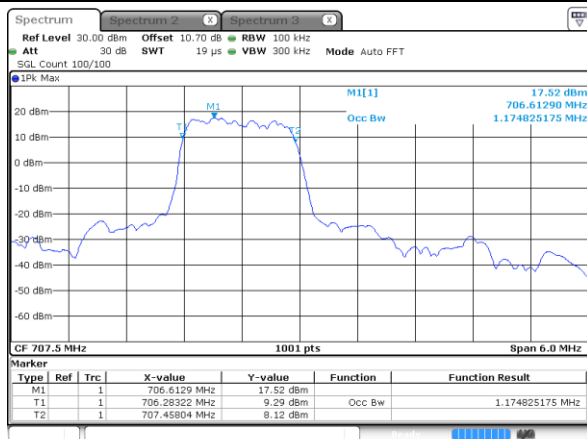
Lowest Channel / 3MHz / QPSK



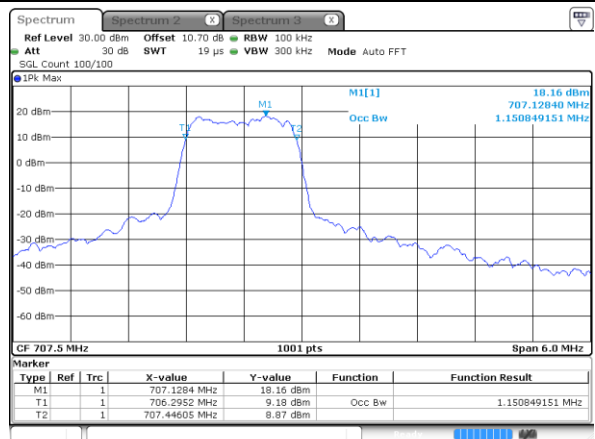
Lowest Channel / 3MHz / 16QAM



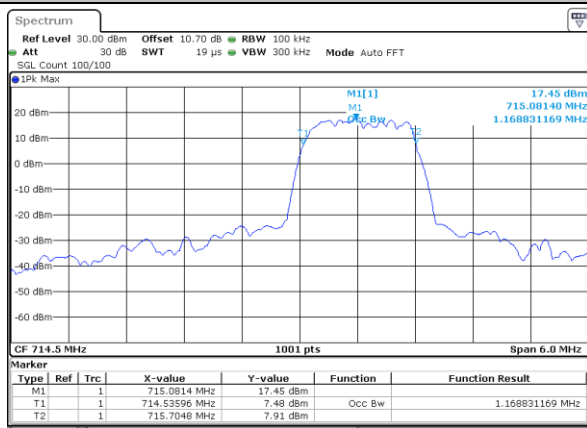
Middle Channel / 3MHz / QPSK



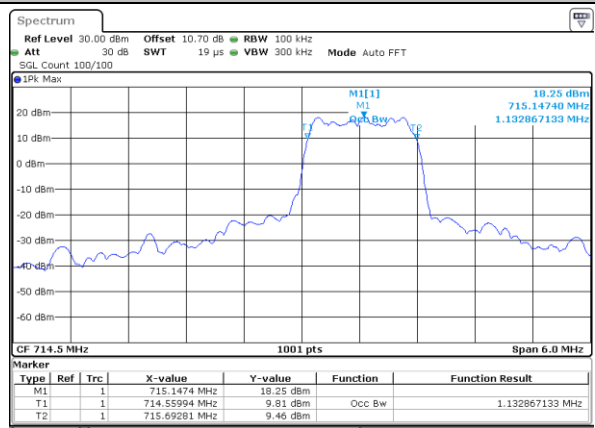
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



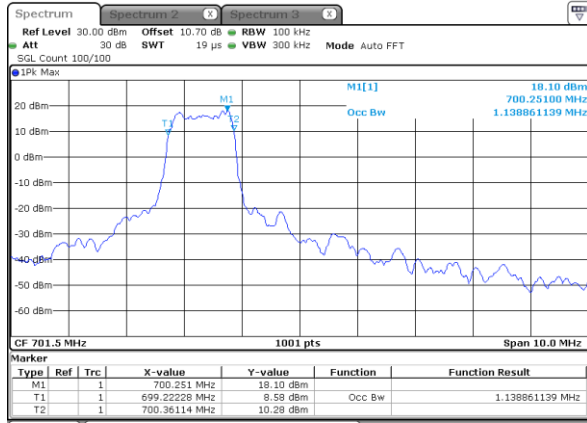
Highest Channel / 3MHz / 16QAM





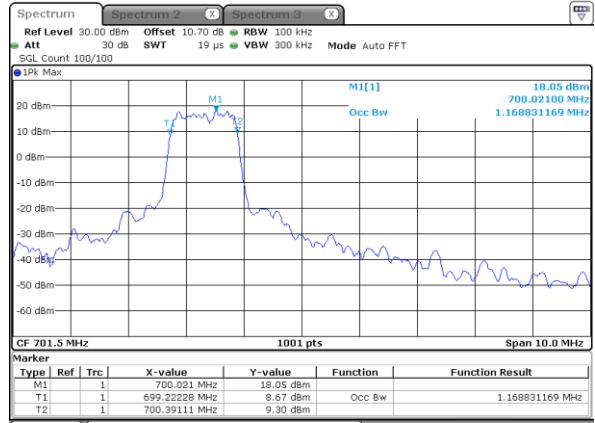
LTE Band 12

Lowest Channel / 5MHz / QPSK



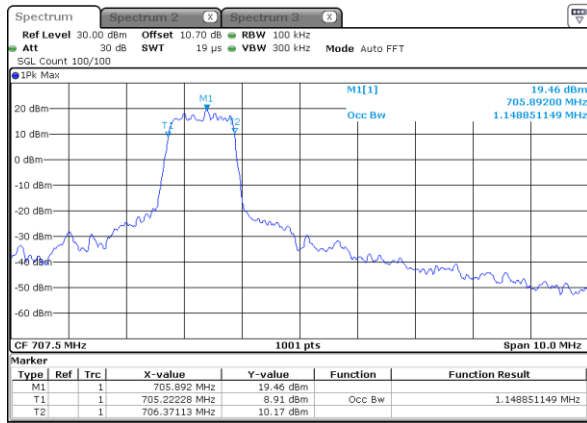
Date: 10 JAN 2020 00:57:15

Lowest Channel / 5MHz / 16QAM



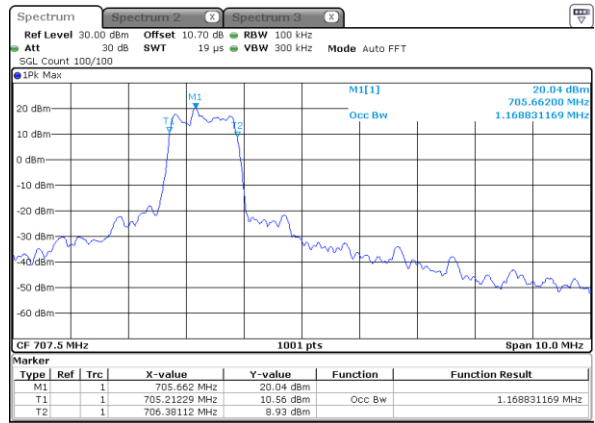
Date: 10 JAN 2020 00:57:38

Middle Channel / 5MHz / QPSK



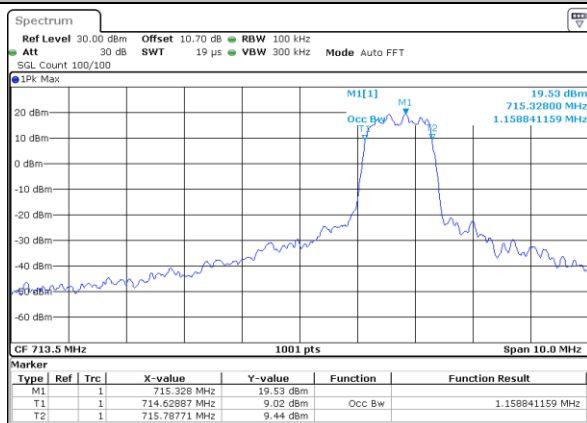
Date: 10 JAN 2020 00:56:03

Middle Channel / 5MHz / 16QAM



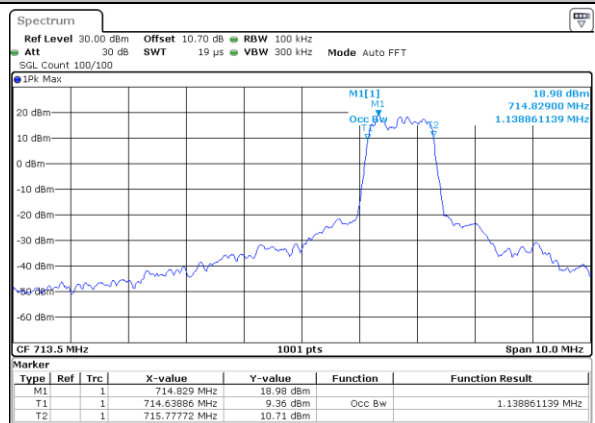
Date: 10 JAN 2020 00:55:05

Highest Channel / 5MHz / QPSK



Date: 10 JAN 2020 23:54:49

Highest Channel / 5MHz / 16QAM

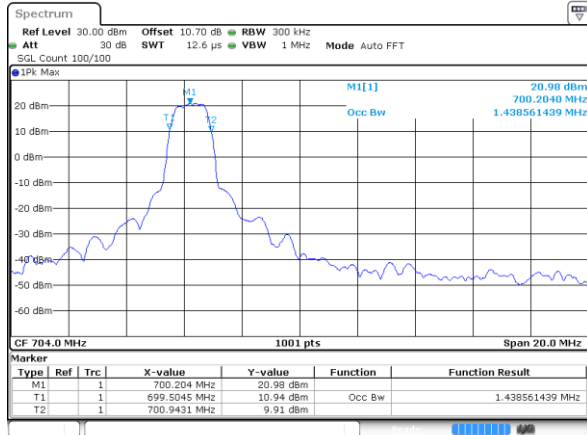


Date: 10 JAN 2020 23:55:31

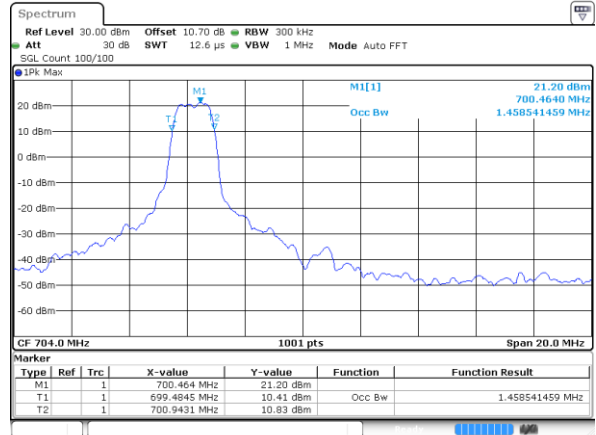


LTE Band 12

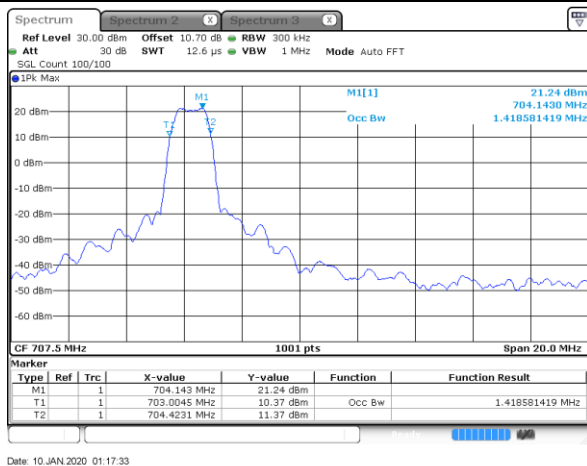
Lowest Channel / 10MHz / QPSK



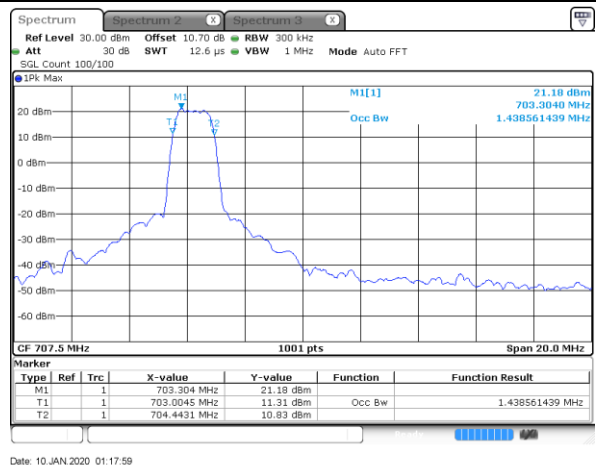
Lowest Channel / 10MHz / 16QAM



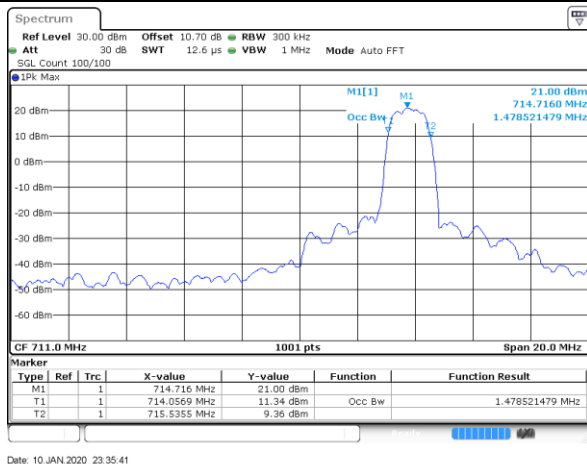
Middle Channel / 10MHz / QPSK



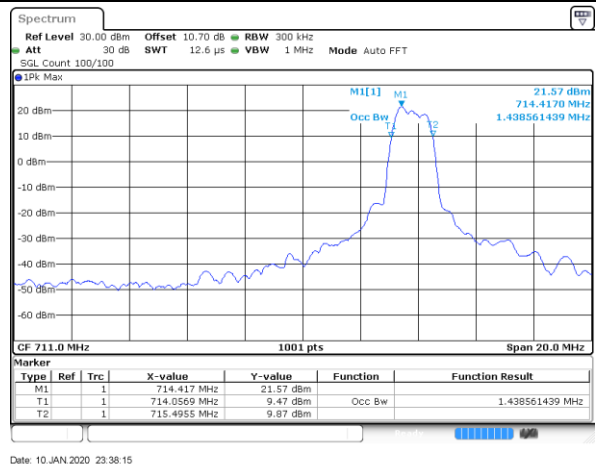
Middle Channel / 10MHz / 16QAM

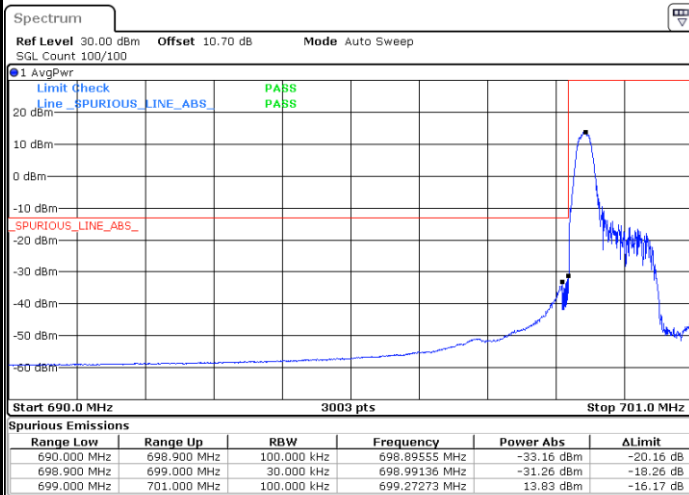
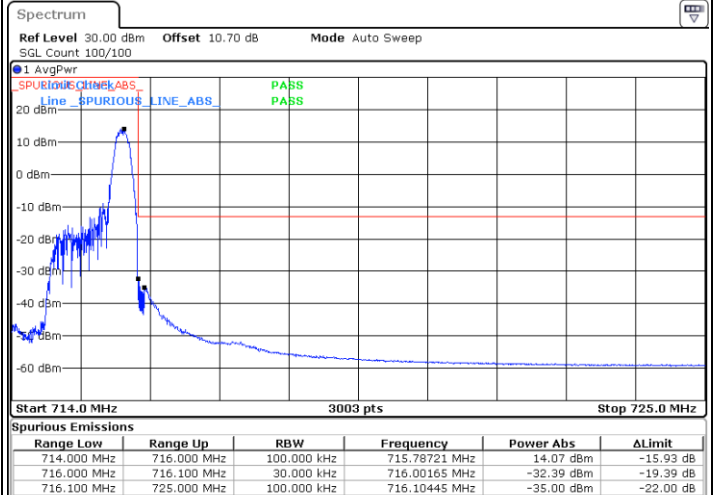
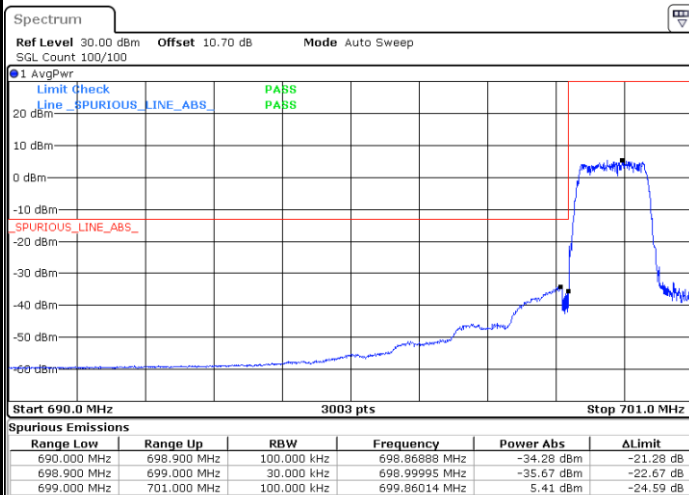
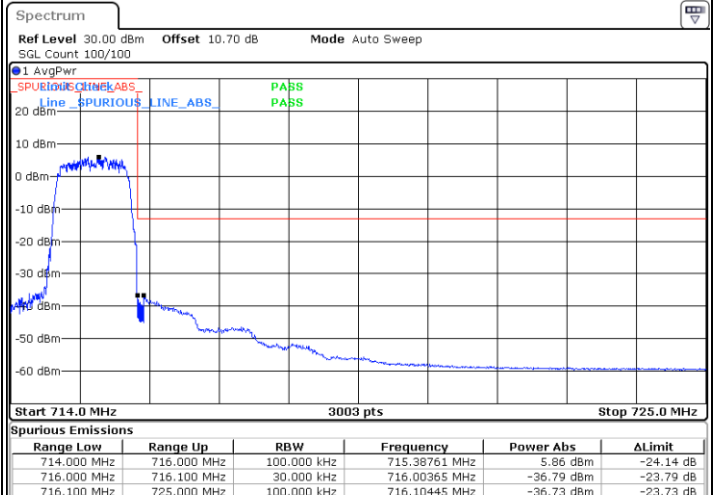


Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

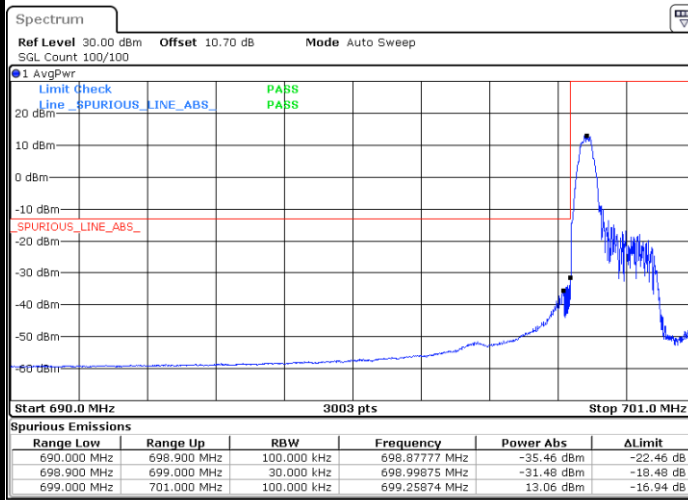


**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

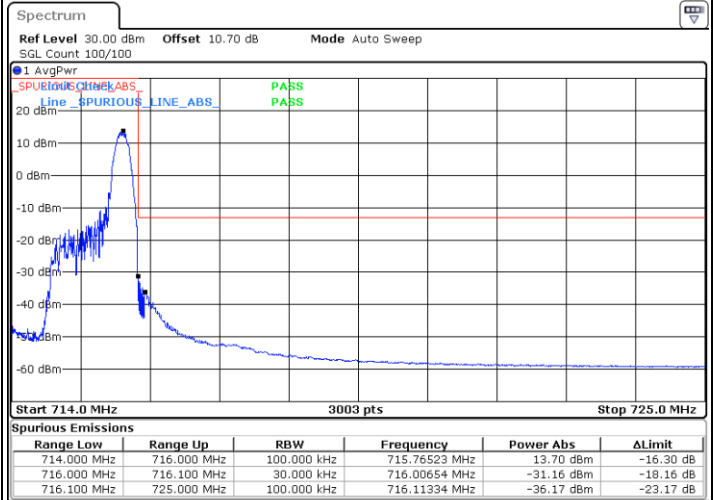


LTE Band 12 / 1.4MHz / 16QAM

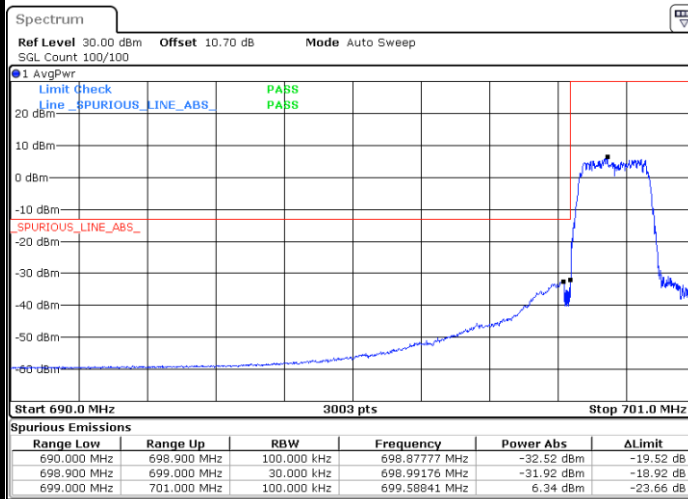
Lowest Band Edge / 1 RB



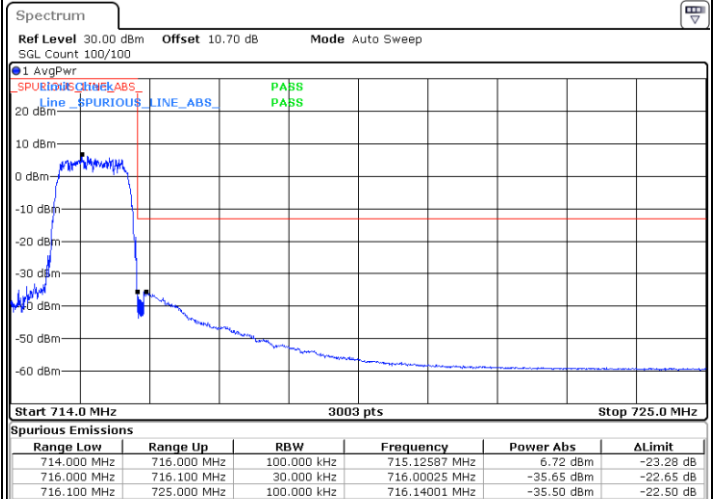
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



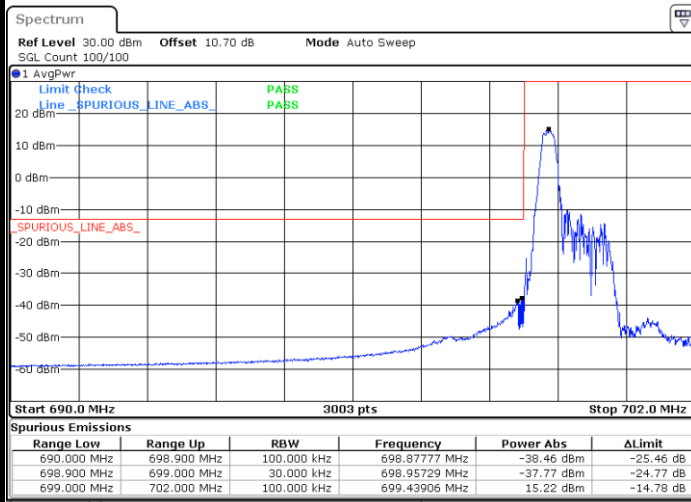
Highest Band Edge / Full RB



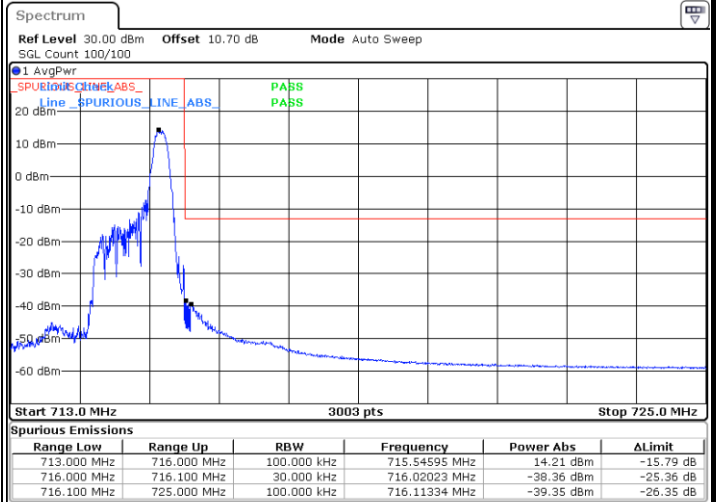


LTE Band 12 / 3MHz / QPSK

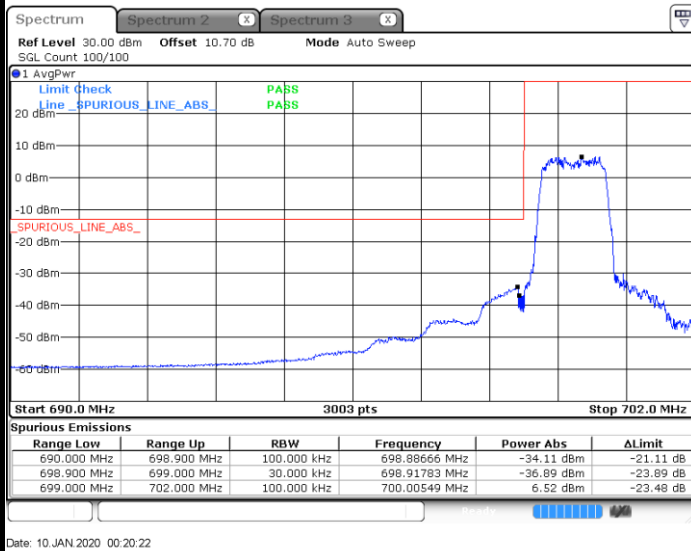
Lowest Band Edge / 1RB



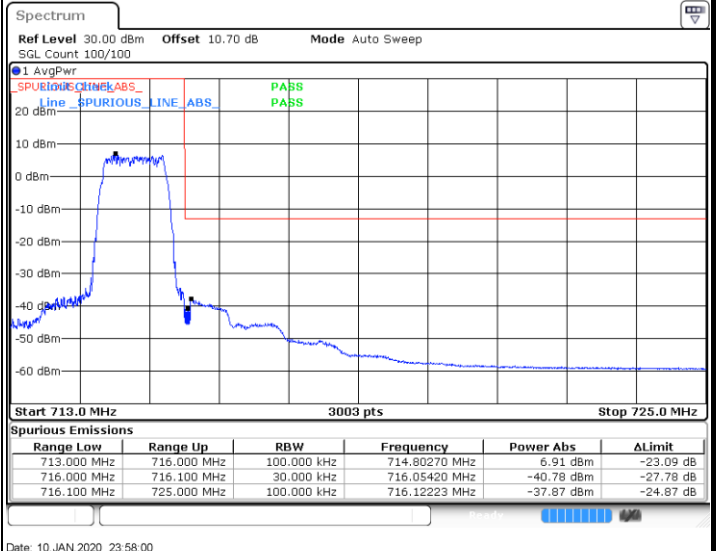
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



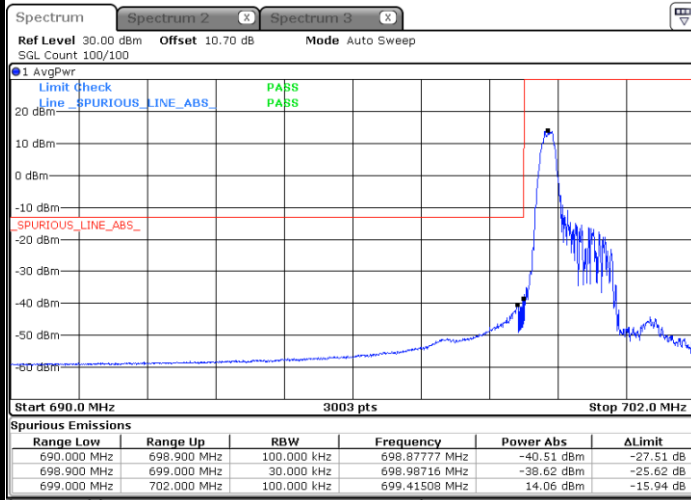
Highest Band Edge / Full RB



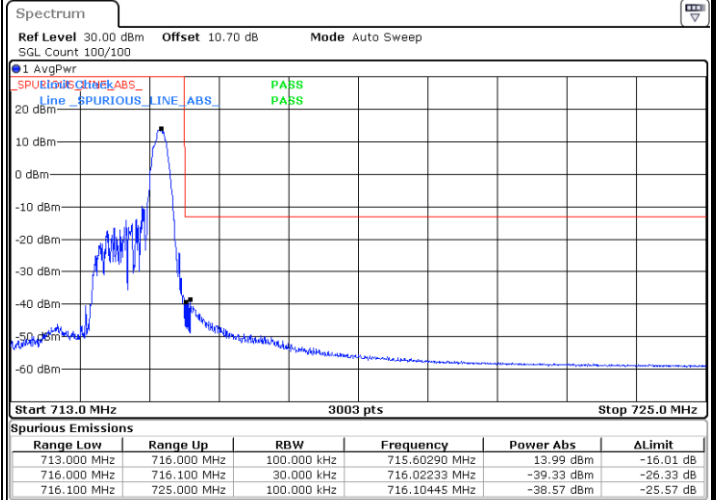


LTE Band 12 / 3MHz / 16QAM

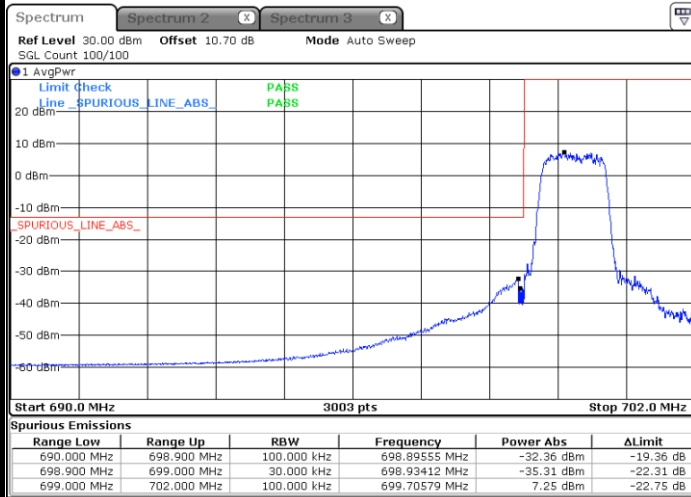
Lowest Band Edge / 1 RB



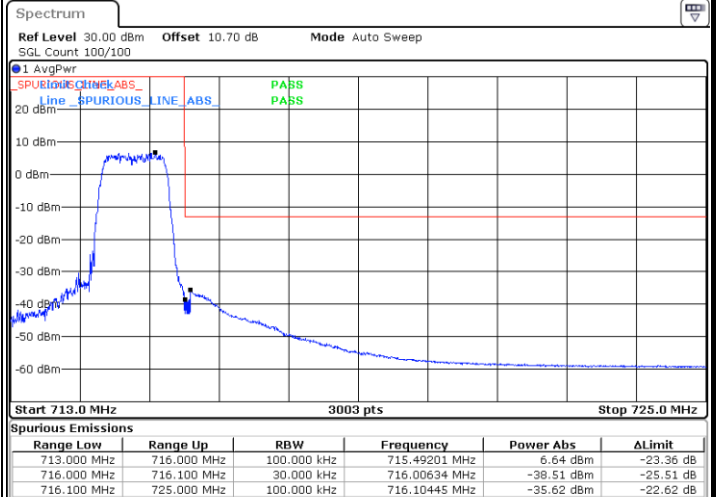
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



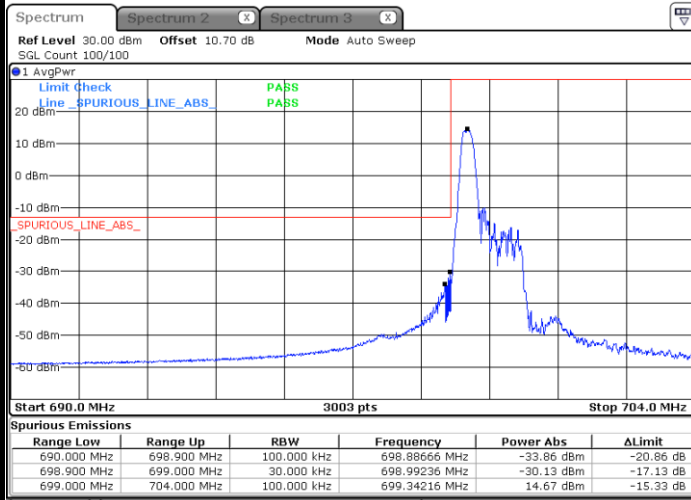
Highest Band Edge / Full RB



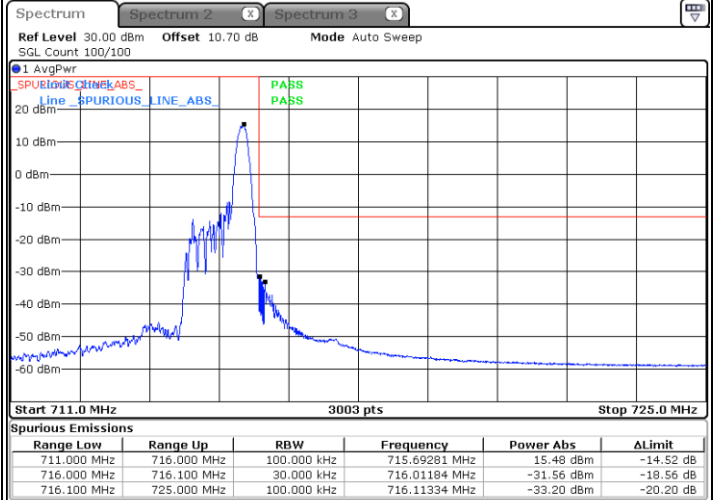


LTE Band 12 / 5MHz / QPSK

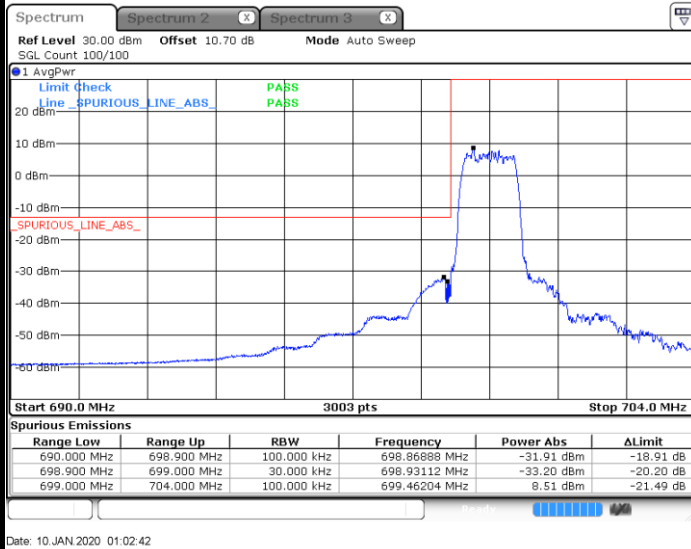
Lowest Band Edge / 1 RB



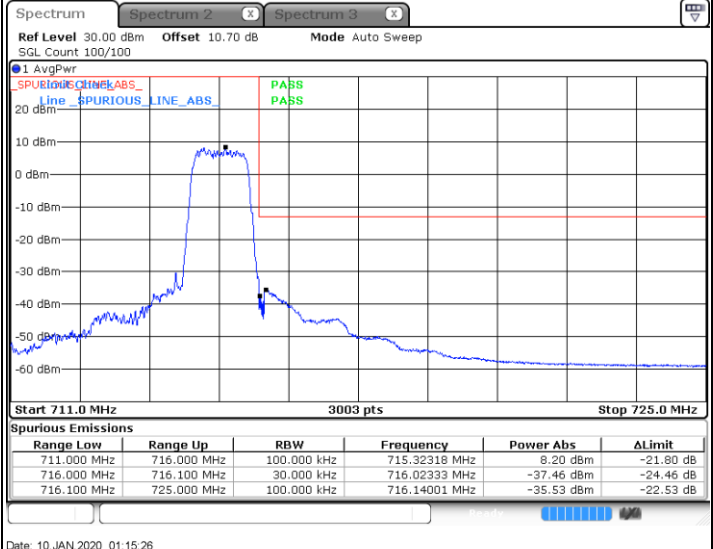
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



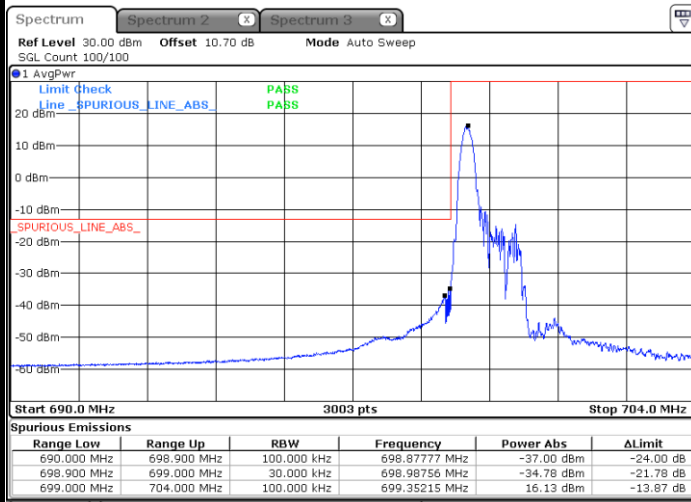
Highest Band Edge / Full RB



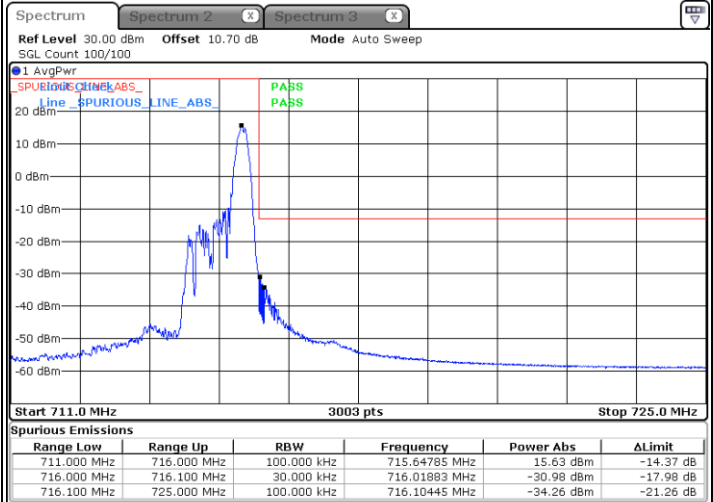


LTE Band 12 / 5MHz / 16QAM

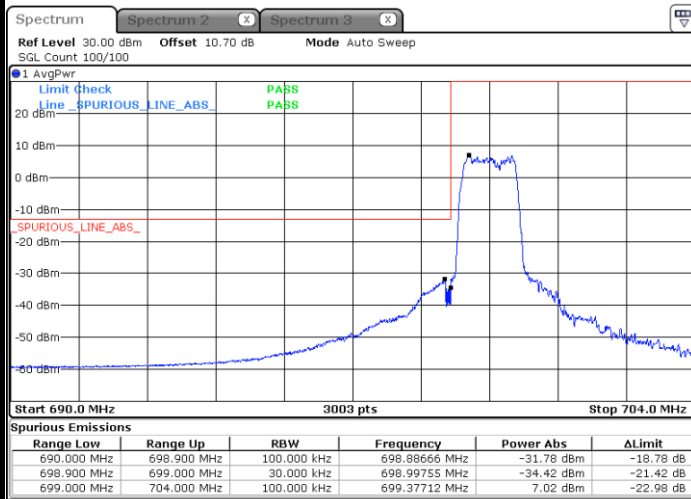
Lowest Band Edge / 1RB



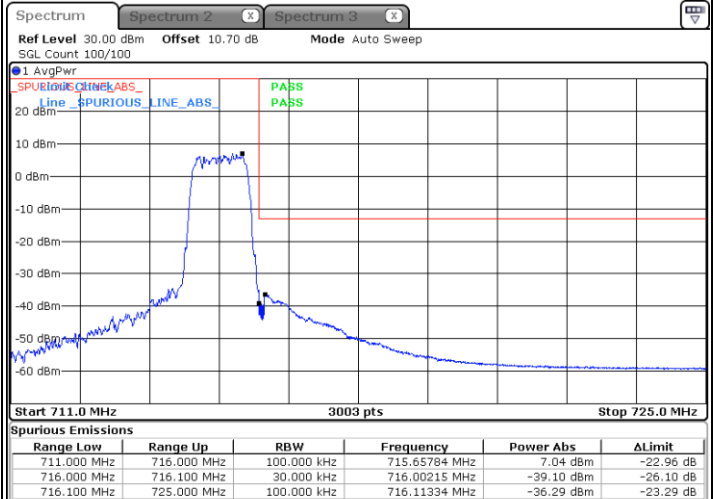
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



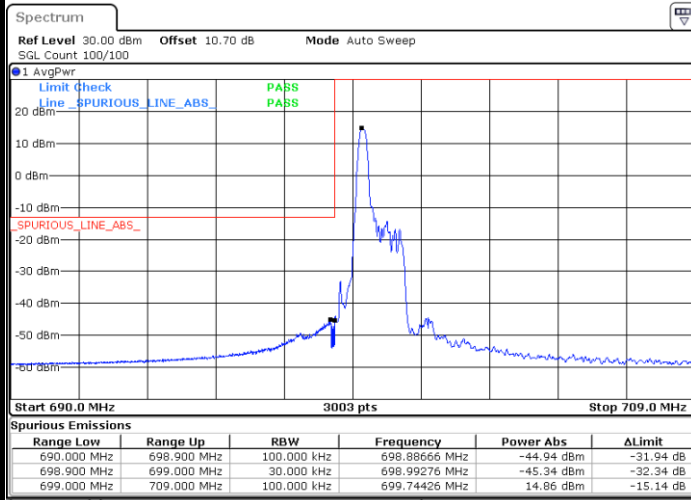
Highest Band Edge / Full RB



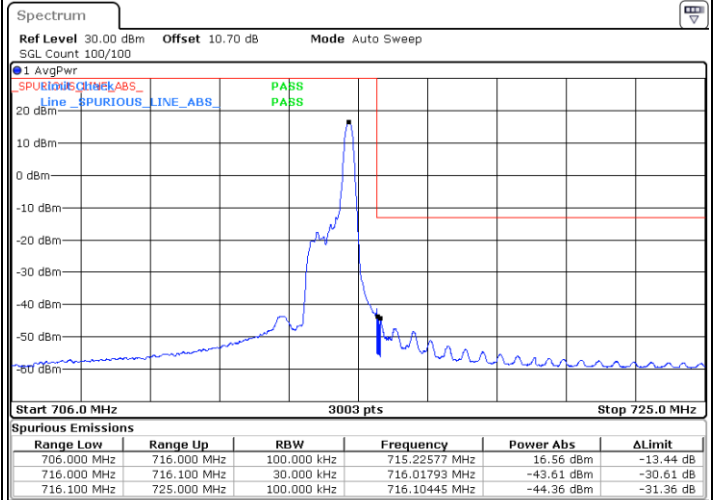


LTE Band 12 / 10MHz / QPSK

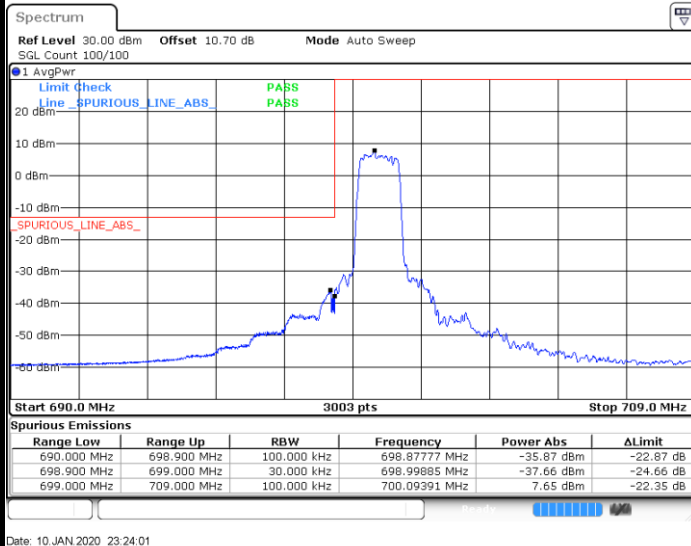
Lowest Band Edge / 1 RB



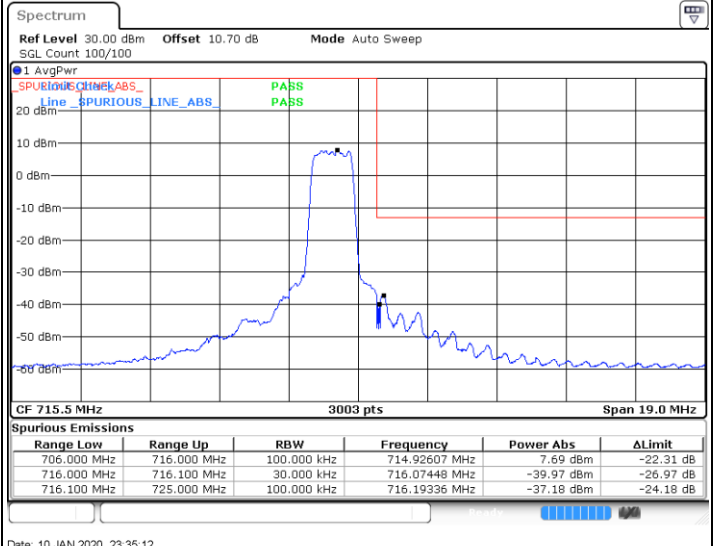
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



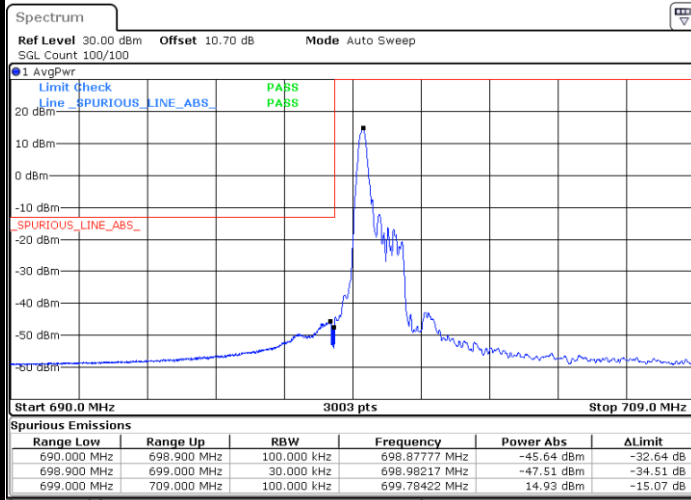
Highest Band Edge / Full RB



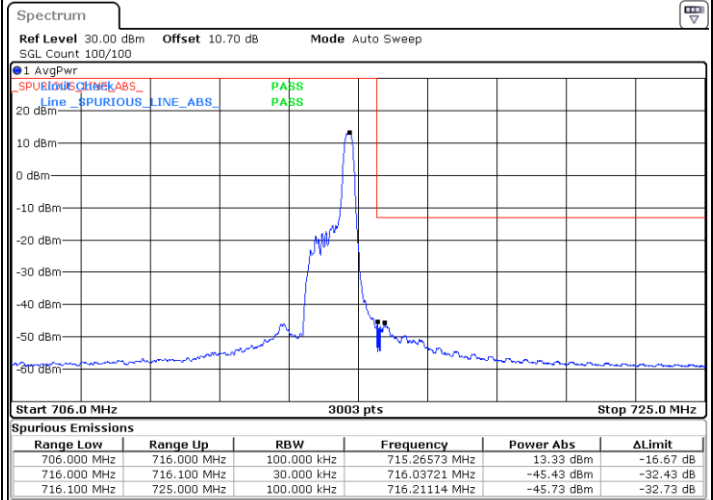


LTE Band 12 / 10MHz / 16QAM

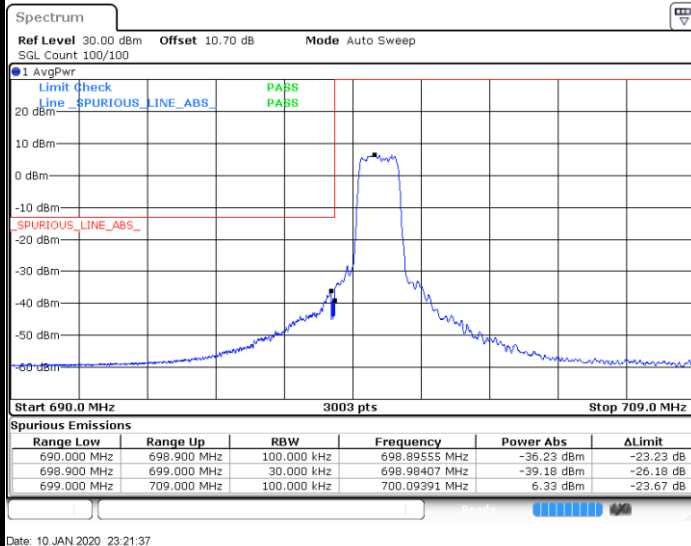
Lowest Band Edge / 1 RB



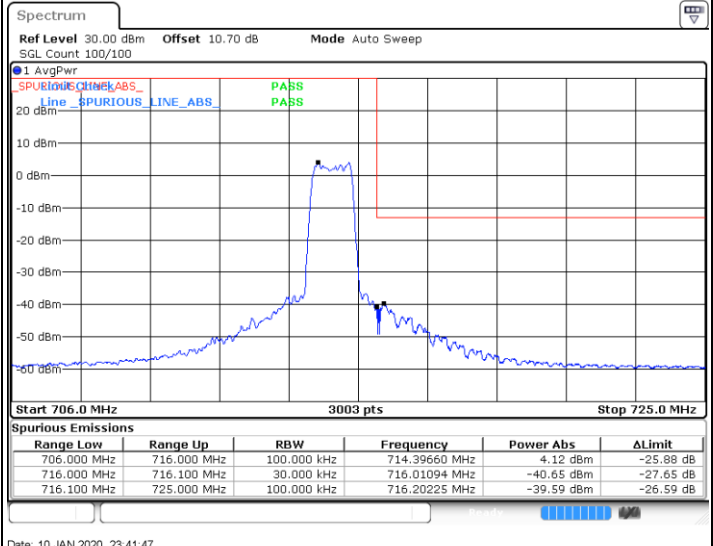
Highest Band Edge / 1 RB

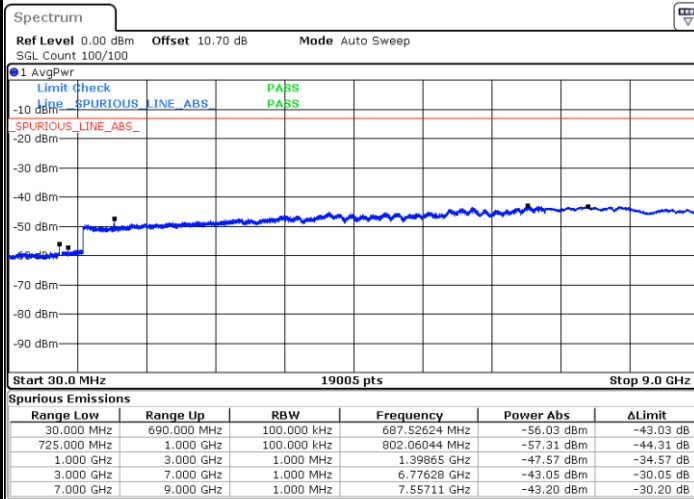


Lowest Band Edge / Full RB

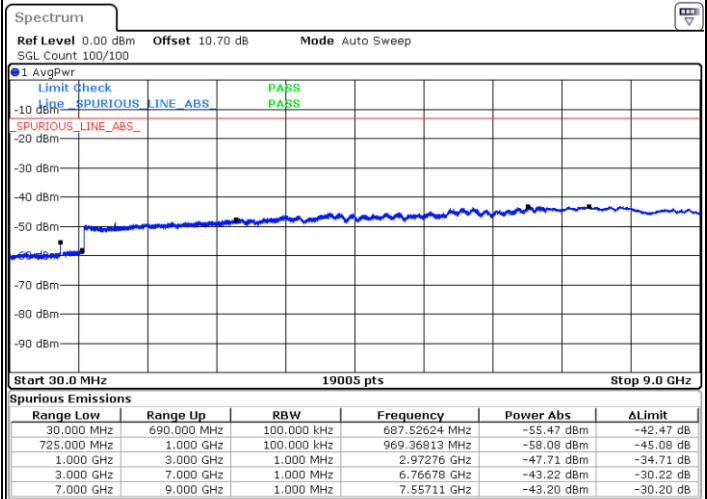


Highest Band Edge / Full RB

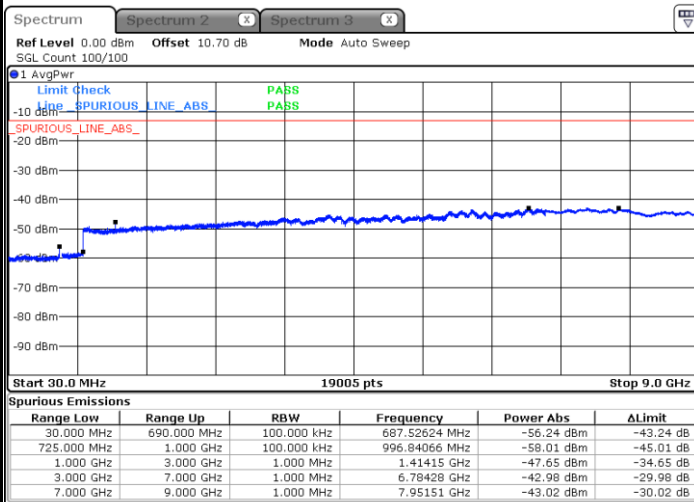


**Conducted Spurious Emission****LTE Band 12 / 1.4MHz****Lowest Channel / QPSK**

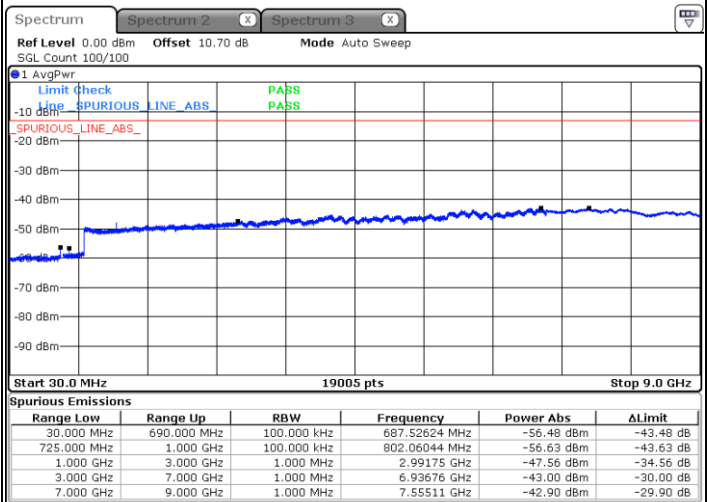
Date: 11 JAN 2020 00:27:35

Lowest Channel / 16QAM

Date: 11 JAN 2020 00:26:29

Middle Channel / QPSK

Date: 10 JAN 2020 00:47:12

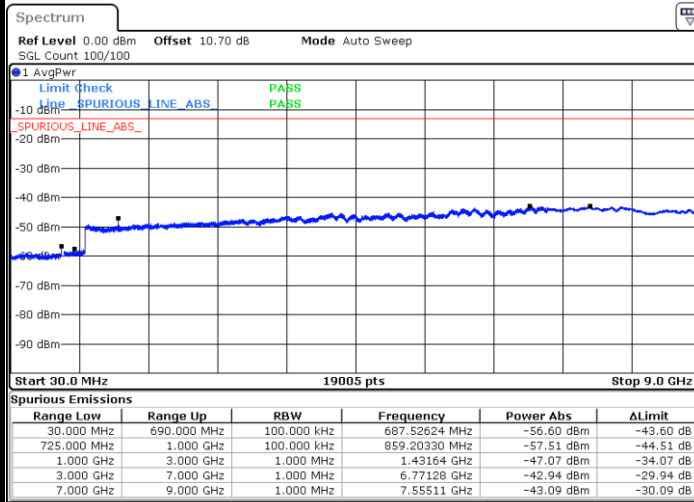
Middle Channel / 16QAM

Date: 10 JAN 2020 00:46:26



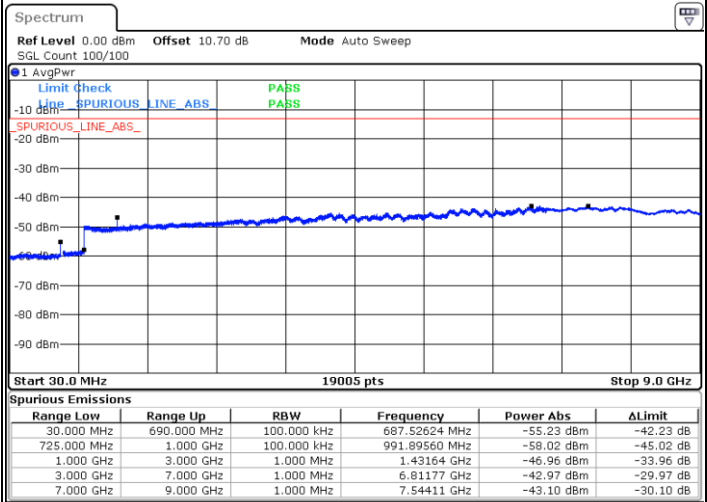
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 11 JAN 2020 00:15:56

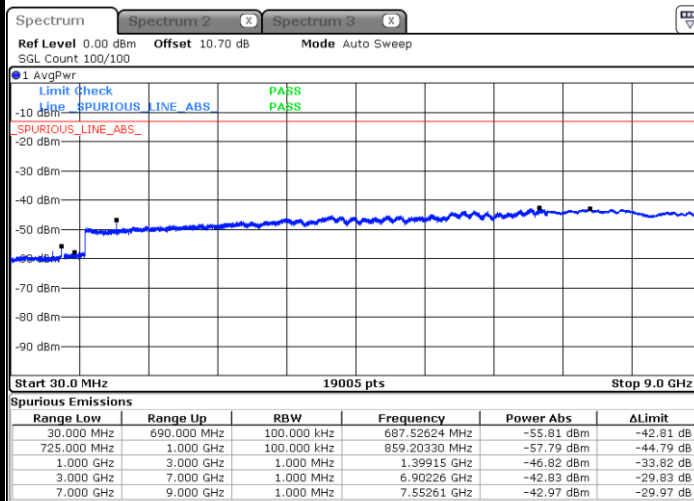
Highest Channel / 16QAM



Date: 11 JAN 2020 00:16:56

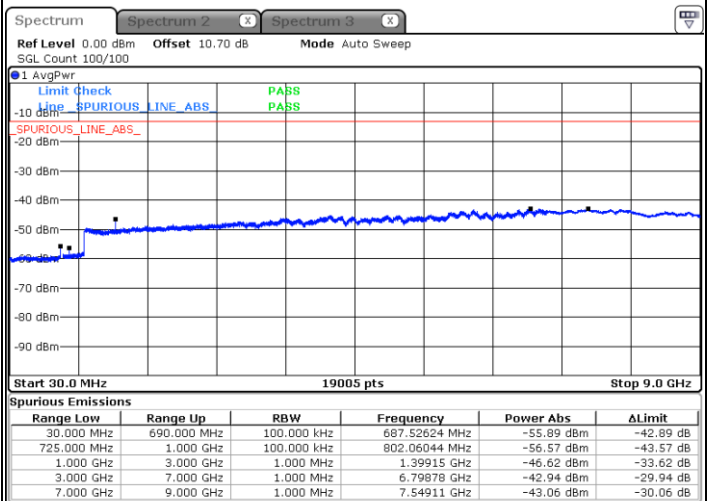
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 10 JAN 2020 00:24:40

Lowest Channel / 16QAM

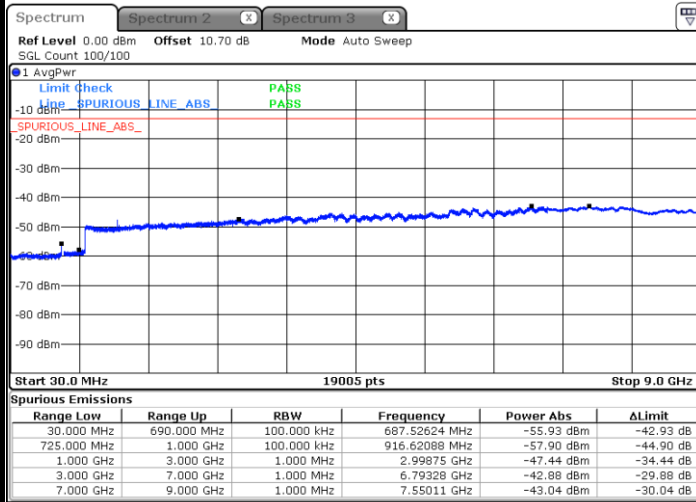


Date: 10 JAN 2020 00:25:26



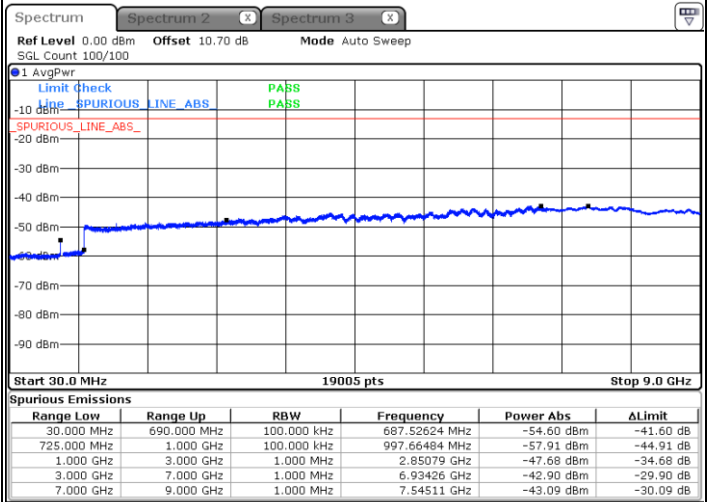
LTE Band 12 / 3MHz

Middle Channel / QPSK



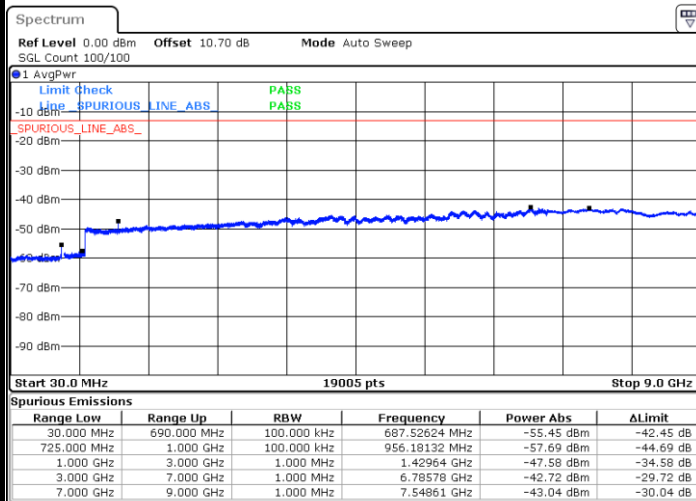
Date: 10 JAN 2020 00:30:04

Middle Channel / 16QAM



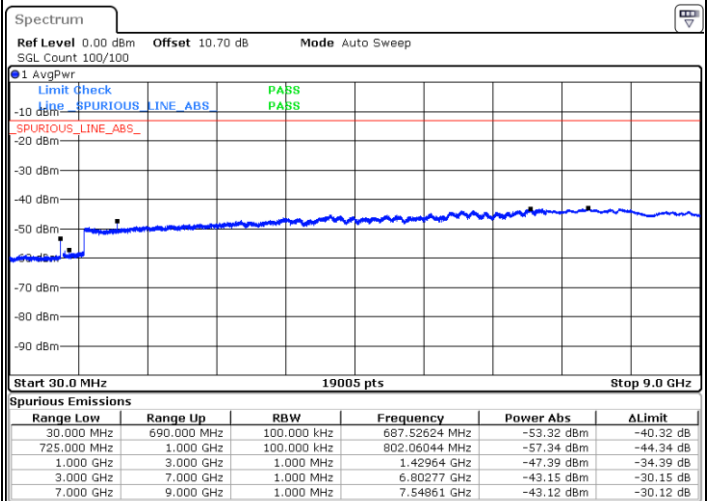
Date: 10 JAN 2020 00:28:57

Highest Channel / QPSK



Date: 11 JAN 2020 00:01:32

Highest Channel / 16QAM

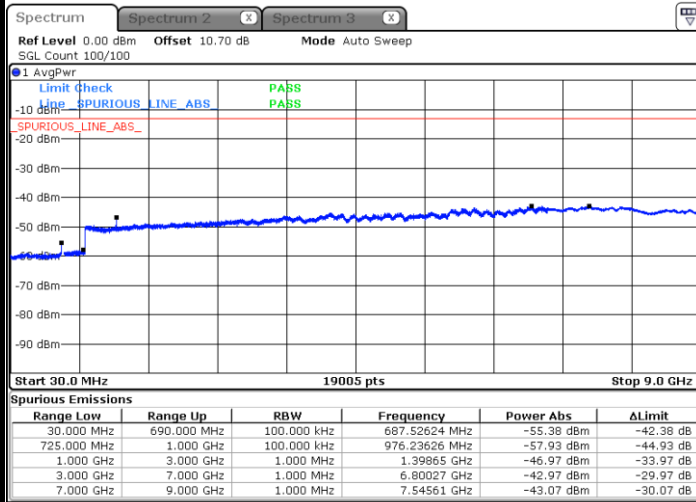


Date: 11 JAN 2020 00:00:33



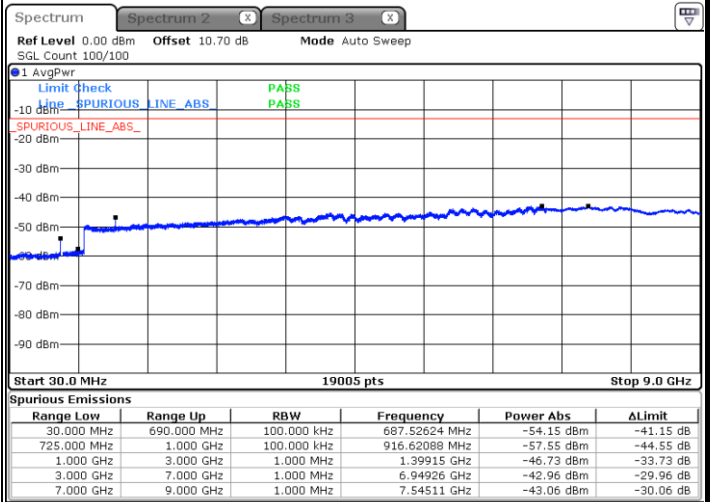
LTE Band 12 / 5MHz

Lowest Channel / QPSK



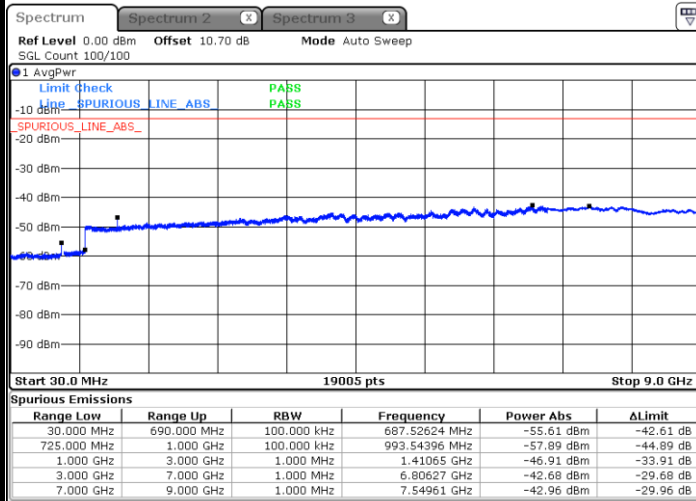
Date: 10 JAN 2020 01:06:23

Lowest Channel / 16QAM



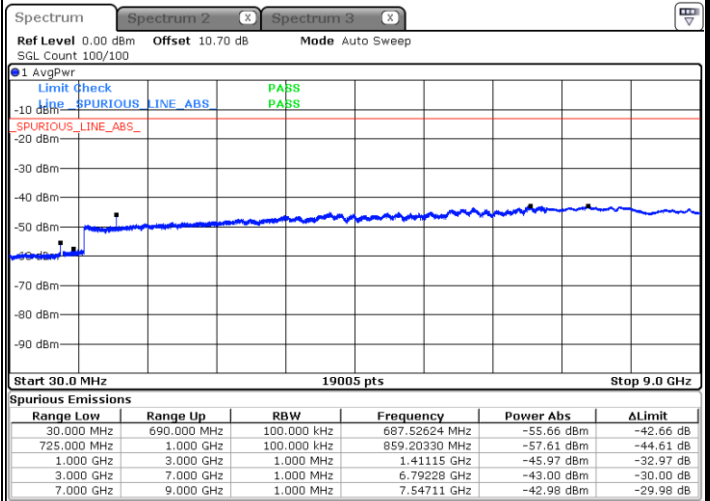
Date: 10 JAN 2020 01:05:32

Middle Channel / QPSK



Date: 10 JAN 2020 00:53:54

Middle Channel / 16QAM

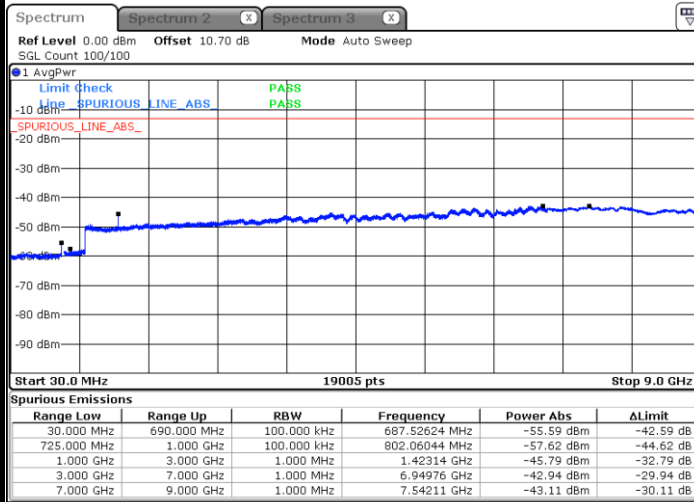


Date: 10 JAN 2020 00:54:39



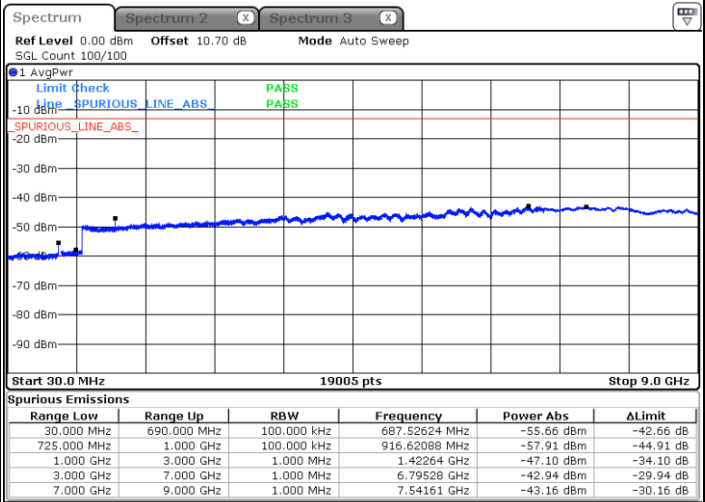
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 10 JAN 2020 01:07:33

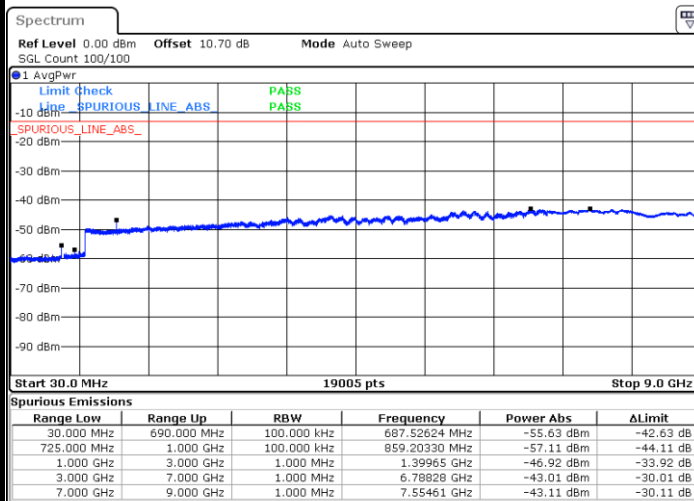
Highest Channel / 16QAM



Date: 10 JAN 2020 01:08:17

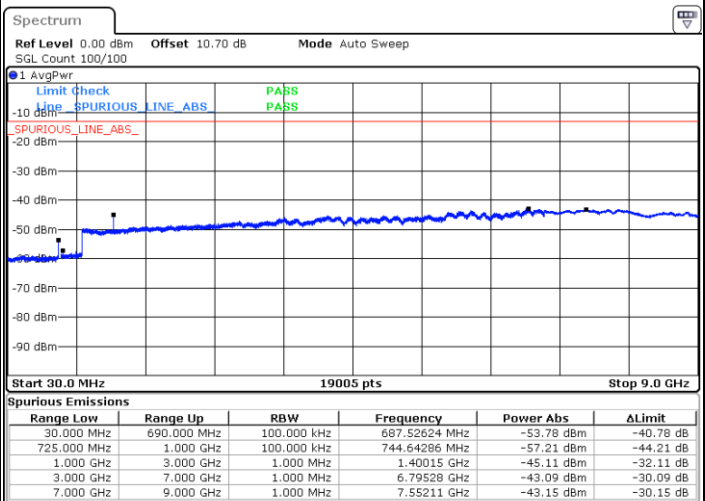
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 10 JAN 2020 23:15:26

Lowest Channel / 16QAM

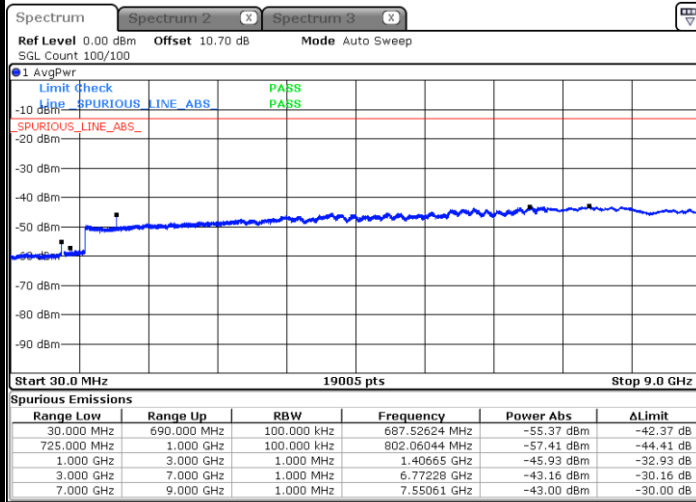


Date: 10 JAN 2020 23:16:29



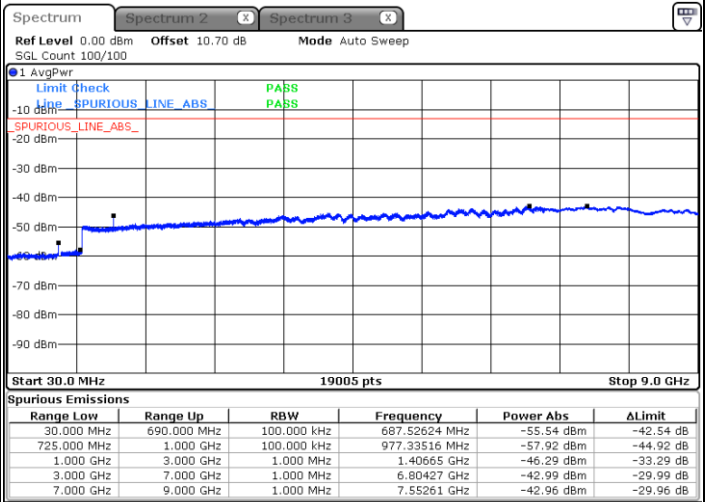
LTE Band 12 / 10MHz

Middle Channel / QPSK



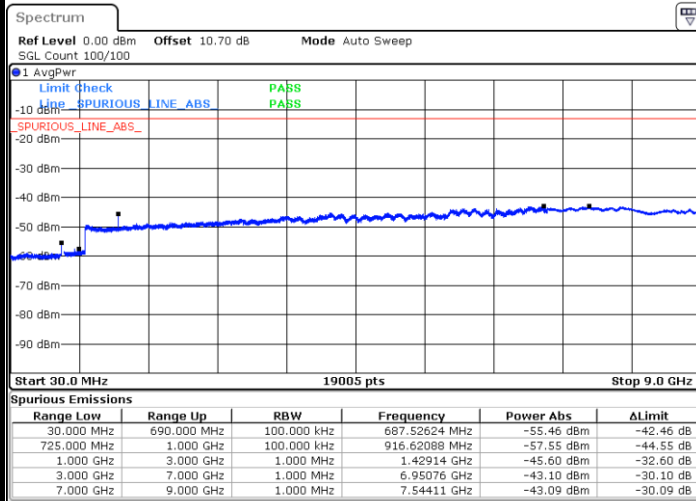
Date: 10 JAN 2020 01:19:57

Middle Channel / 16QAM



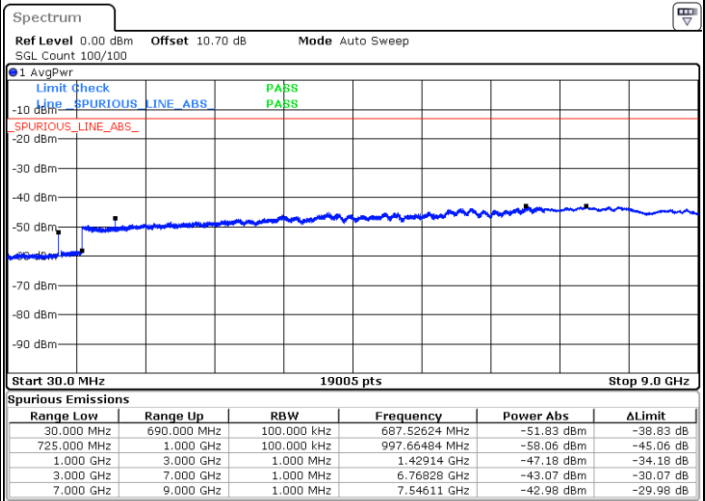
Date: 10 JAN 2020 01:19:15

Highest Channel / QPSK



Date: 10 JAN 2020 23:47:30

Highest Channel / 16QAM



Date: 10 JAN 2020 23:46:30

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	0.0004	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0066	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0137	
0	Normal Voltage	0.0185	
-10	Normal Voltage	0.0098	
-20	Normal Voltage	0.0178	
-30	Normal Voltage	0.0055	
20	Maximum Voltage	0.0065	
20	Normal Voltage	0.0066	
20	Battery End Point	0.0213	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

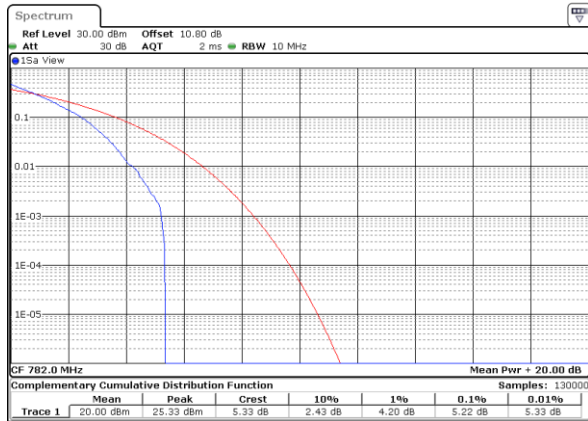
**LTE Band 13****Peak-to-Average Ratio**

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.22	5.94	5.45	6.78	
Highest CH	-	-	-	-	

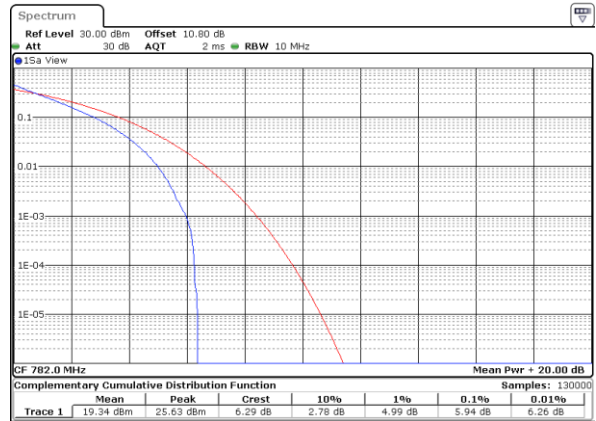


LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

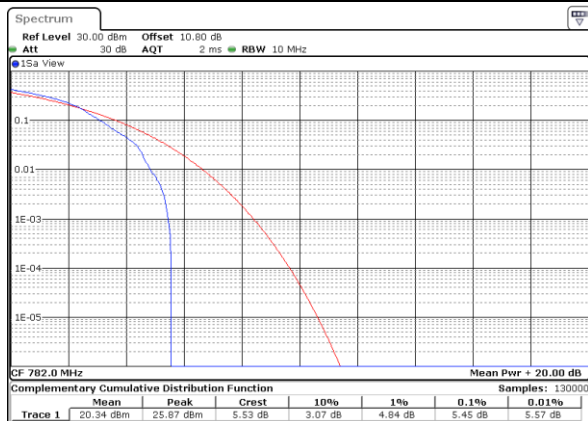


Middle Channel / Full RB



LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Middle Channel / Full RB



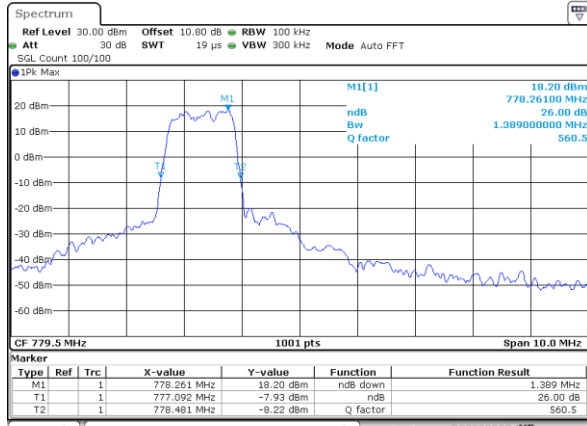
**26dB Bandwidth**

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	-	-	-	-	1.39	1.41	-	-	-	-	-	-
Middle CH	-	-	-	-	1.41	1.38	1.84	1.80	-	-	-	-
Highest CH	-	-	-	-	1.37	1.40	-	-	-	-	-	-



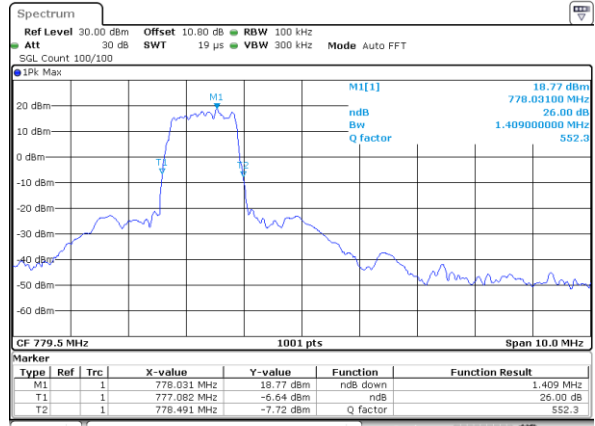
LTE Band 13

Lowest Channel / 5MHz / QPSK



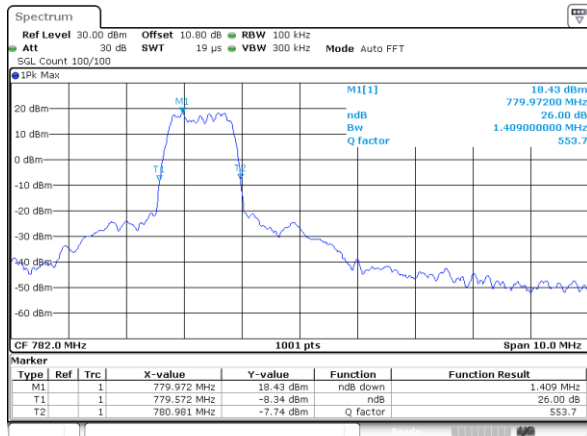
Date: 15,NOV,2019 23:10:17

Lowest Channel / 5MHz / 16QAM



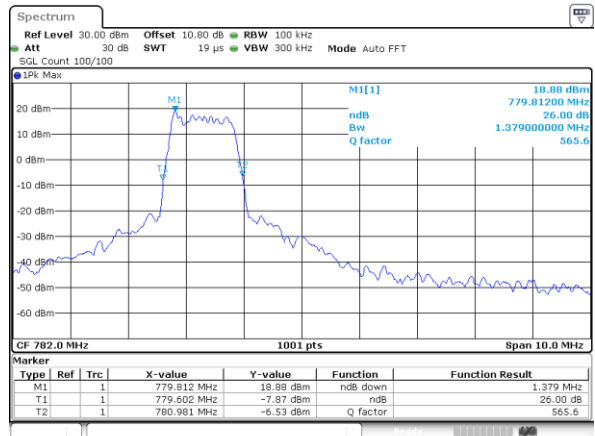
Date: 15,NOV,2019 23:10:08

Middle Channel / 5MHz / QPSK



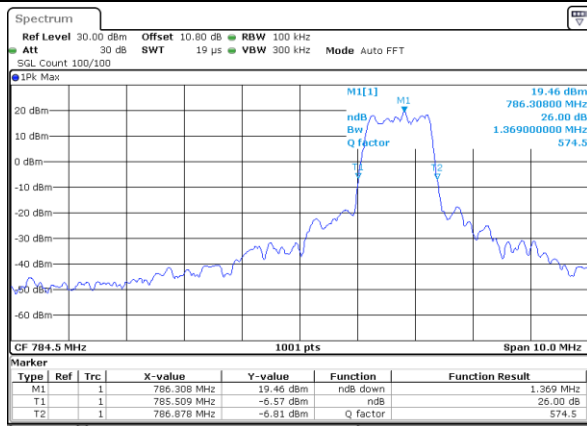
Date: 16,NOV,2019 00:01:06

Middle Channel / 5MHz / 16QAM



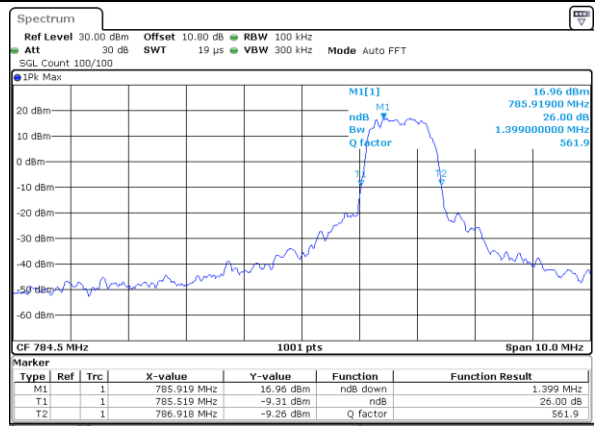
Date: 16,NOV,2019 00:01:17

Highest Channel / 5MHz / QPSK



Date: 18,NOV,2019 21:32:45

Highest Channel / 5MHz / 16QAM

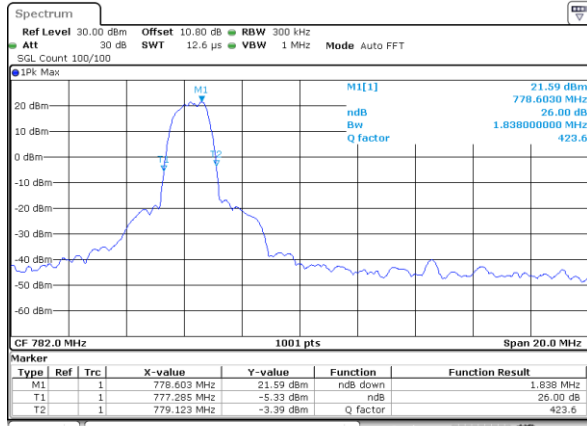


Date: 18,NOV,2019 21:33:03



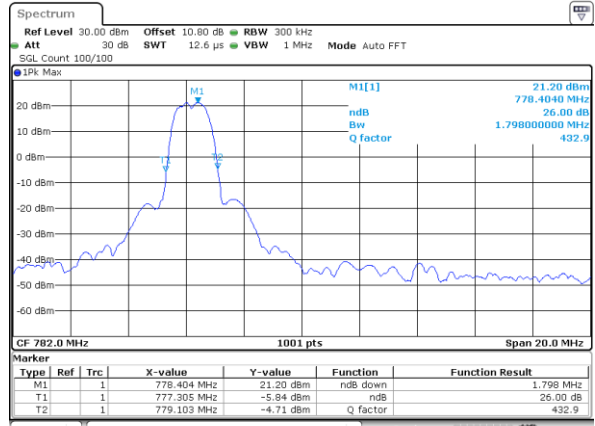
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 16,NOV,2019 00:36:33

Middle Channel / 10MHz / 16QAM



Date: 16,NOV,2019 00:36:23



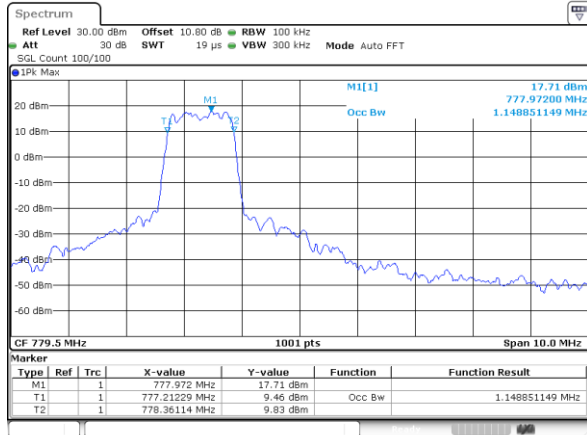
Occupied Bandwidth

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	-	-	-	-	1.15	1.19	-	-	-	-	-	-
Middle CH	-	-	-	-	1.16	1.17	1.48	1.46	-	-	-	-
Highest CH	-	-	-	-	1.18	1.15	-	-	-	-	-	-



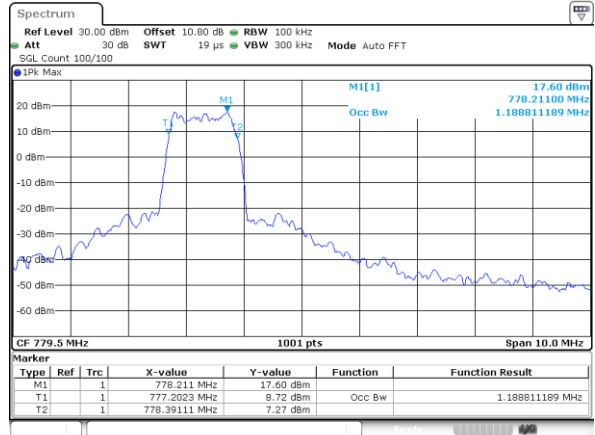
LTE Band 13

Lowest Channel / 5MHz / QPSK



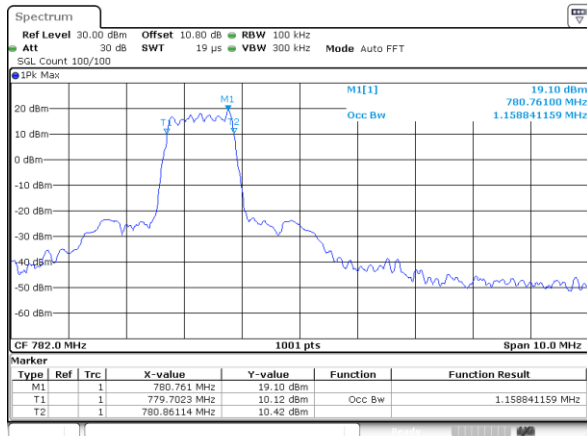
Date: 15,NOV,2019 23:09:49

Lowest Channel / 5MHz / 16QAM



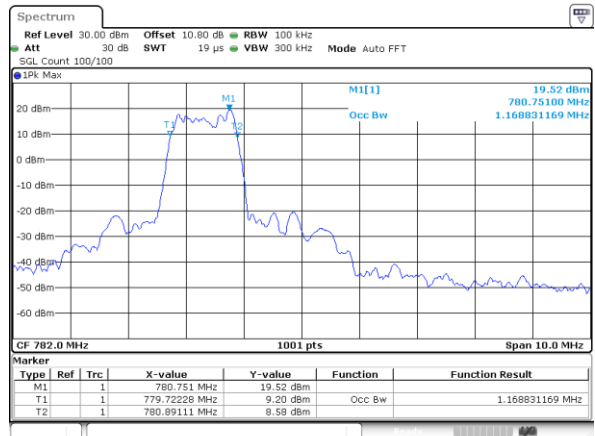
Date: 15,NOV,2019 23:09:58

Middle Channel / 5MHz / QPSK



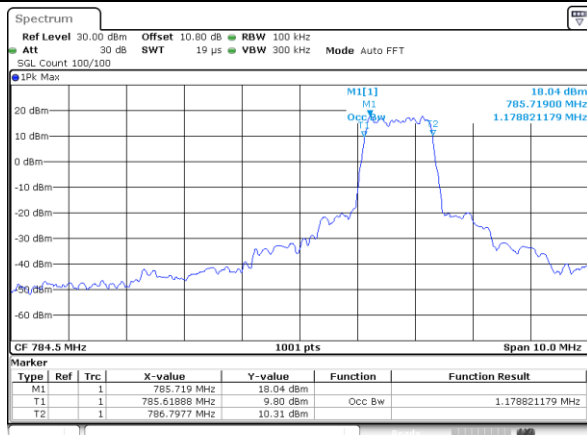
Date: 16,NOV,2019 00:02:41

Middle Channel / 5MHz / 16QAM



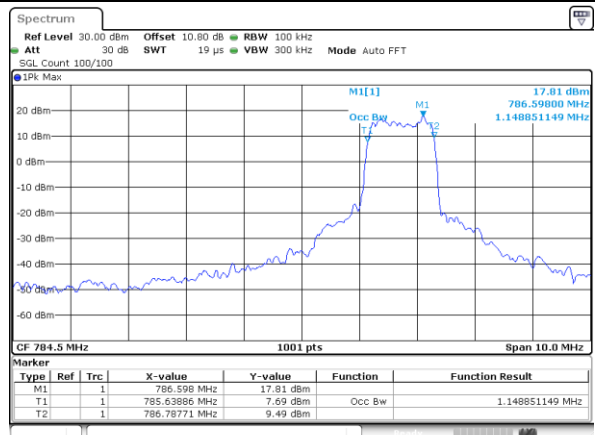
Date: 16,NOV,2019 00:01:38

Highest Channel / 5MHz / QPSK



Date: 18,NOV,2019 21:32:35

Highest Channel / 5MHz / 16QAM

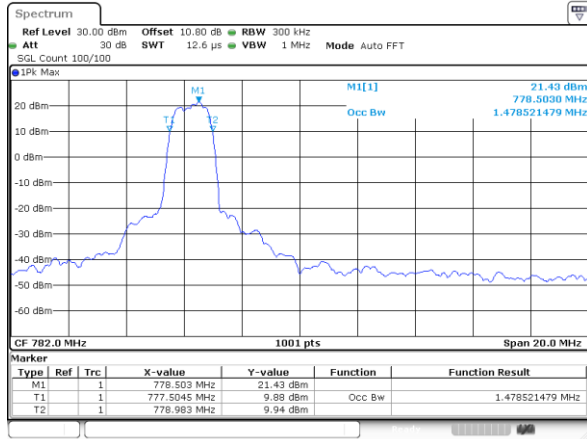


Date: 18,NOV,2019 21:32:56



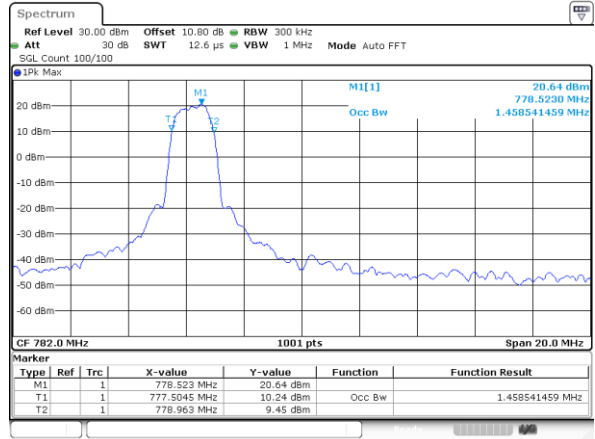
LTE Band 13

Middle Channel / 10MHz / QPSK

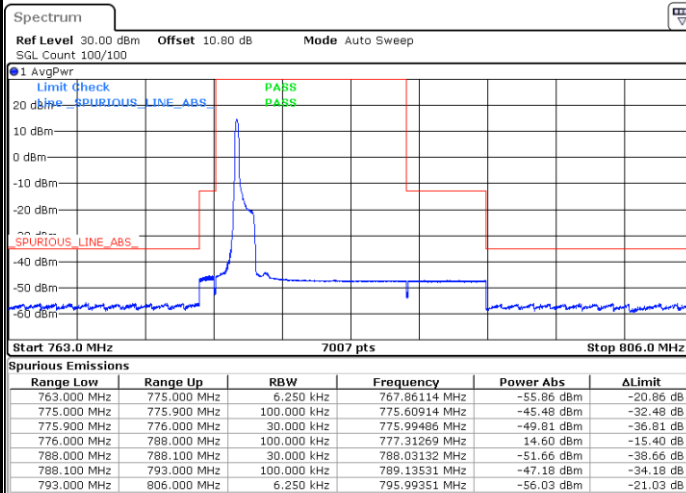


Date: 16,NOV,2019 00:35:57

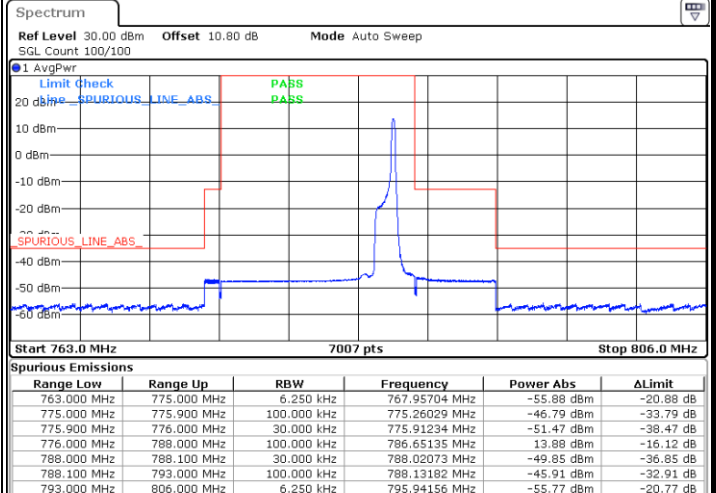
Middle Channel / 10MHz / 16QAM



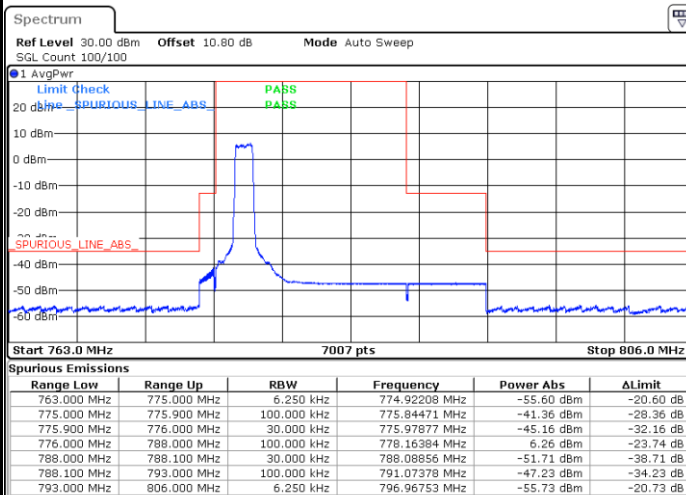
Date: 16,NOV,2019 00:36:14

**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB**

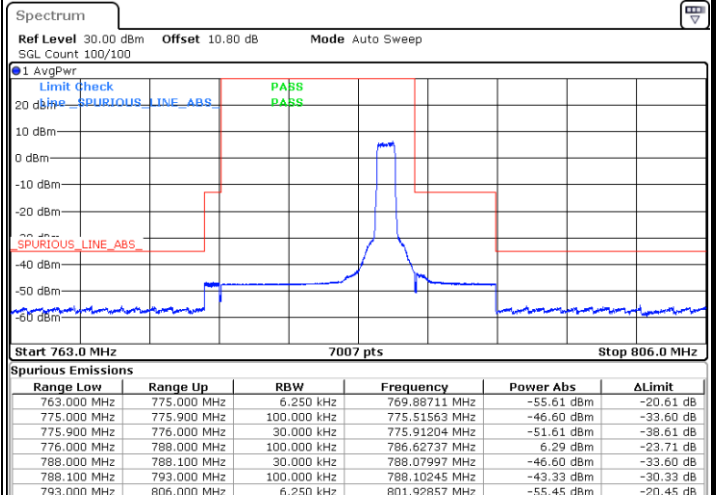
Date: 15.NOV.2019 23:56:39

Highest Band Edge / 1 RB

Date: 16.NOV.2019 00:11:31

Lowest Band Edge / Full RB

Date: 15.NOV.2019 23:11:59

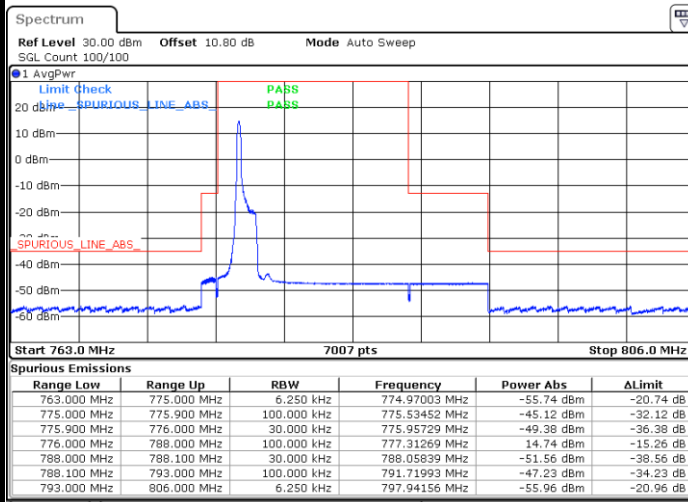
Highest Band Edge / Full RB

Date: 16.NOV.2019 21:32:18



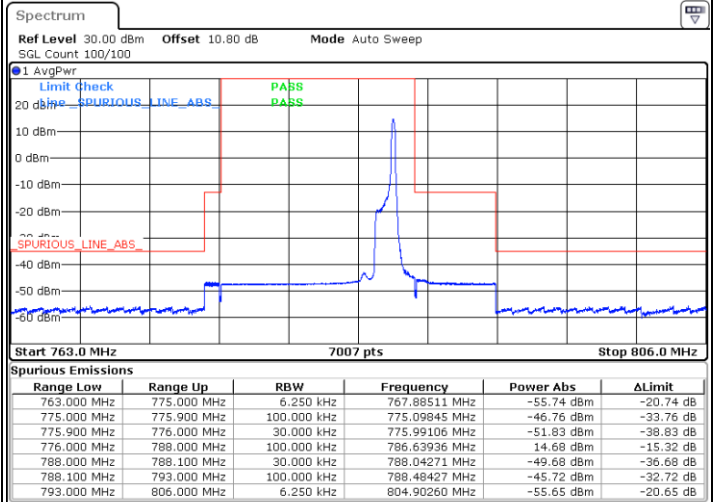
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



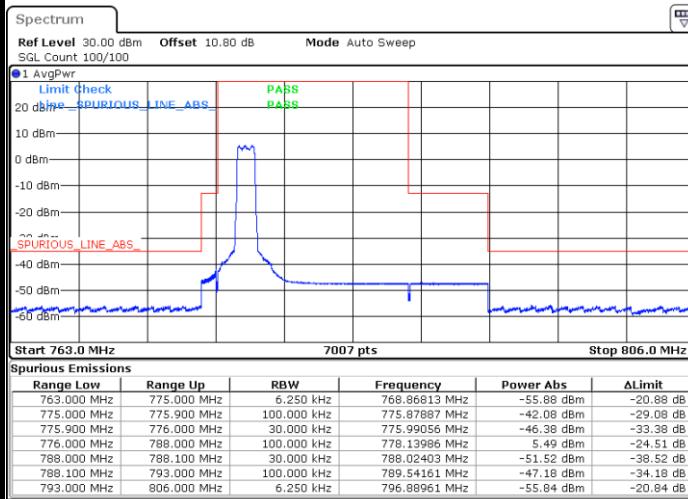
Date: 16.NOV.2019 00:54:29

Highest Band Edge / 1 RB



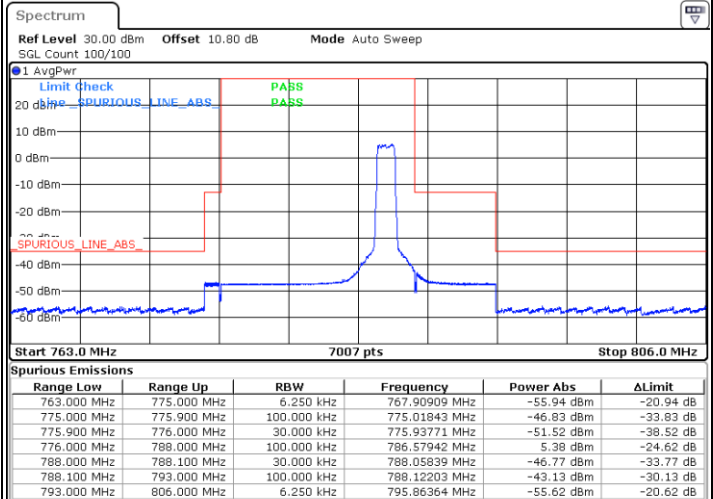
Date: 16.NOV.2019 00:09:46

Lowest Band Edge / Full RB



Date: 15.NOV.2019 23:13:40

Highest Band Edge / Full RB



Date: 16.NOV.2019 00:07:51