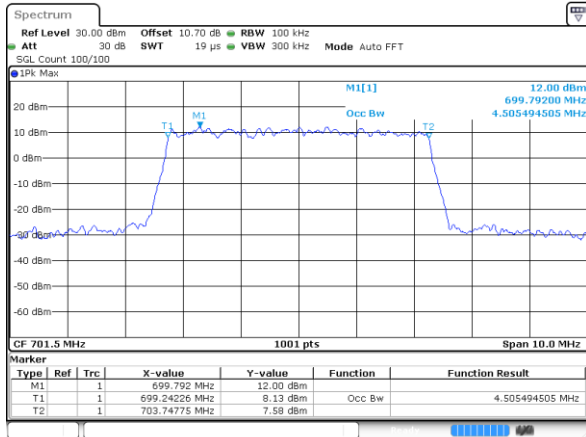


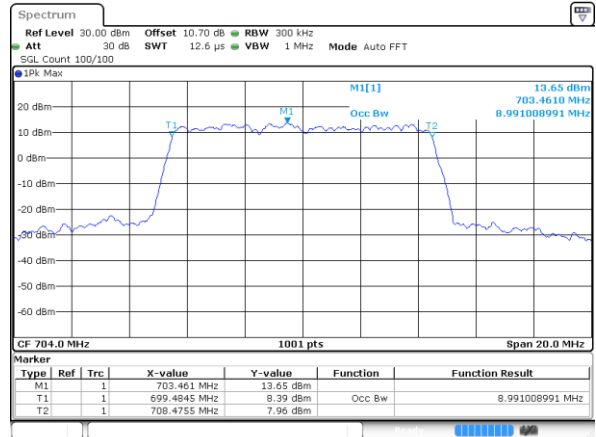


LTE Band 12

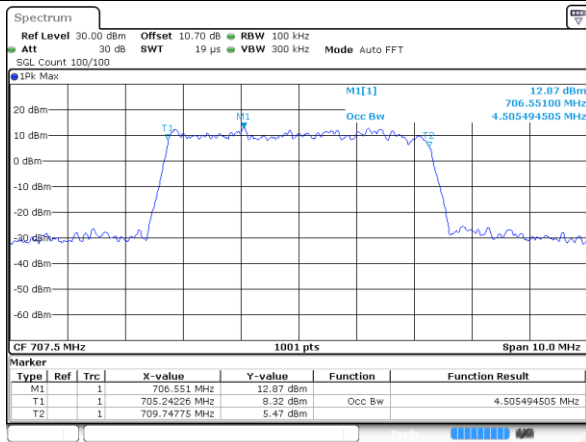
Lowest Channel / 5MHz / 64QAM



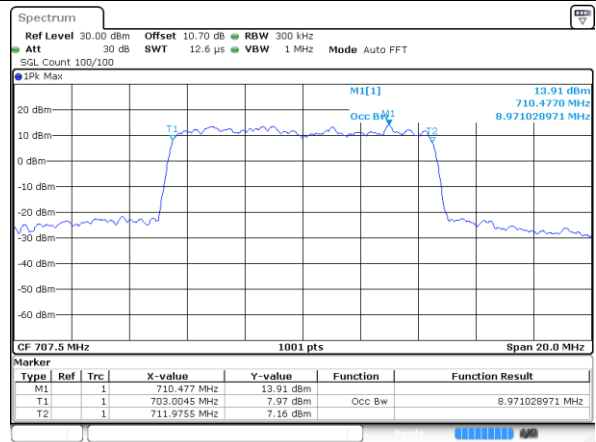
Lowest Channel / 10MHz / 64QAM



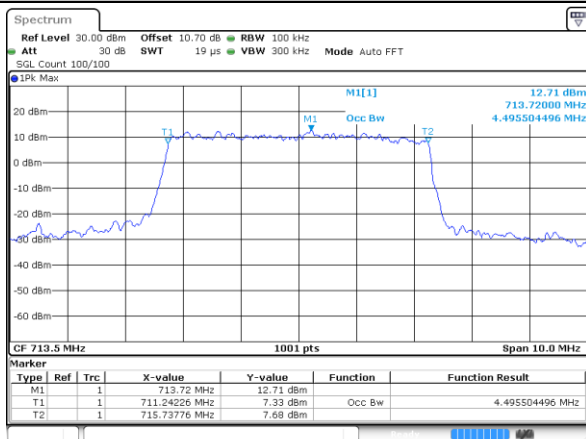
Middle Channel / 5MHz / 64QAM



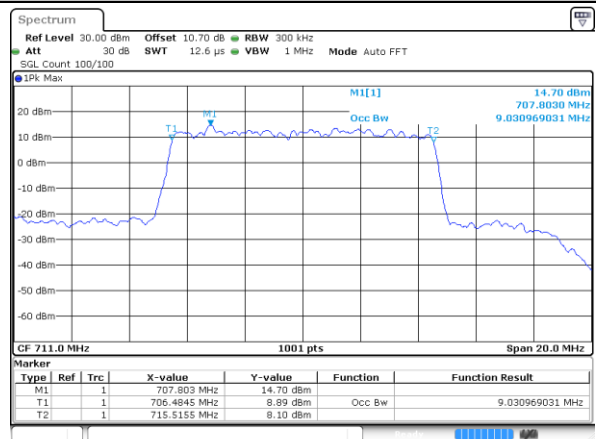
Middle Channel / 10MHz / 64QAM

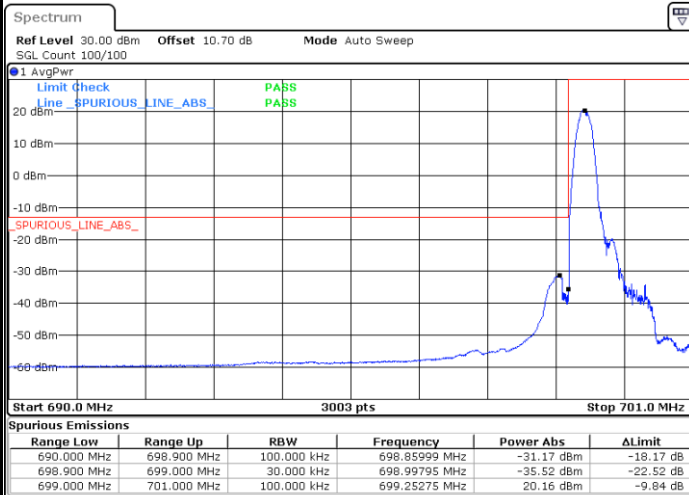
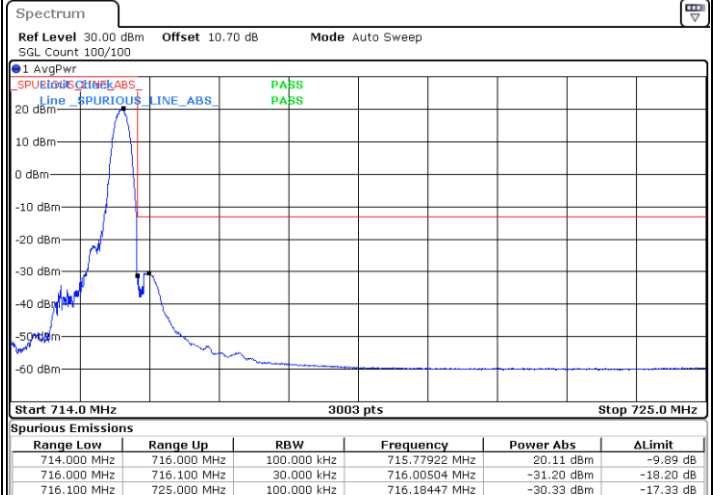
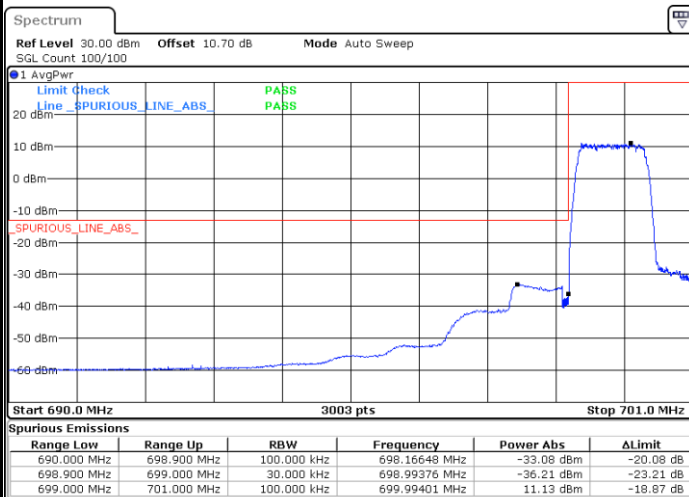
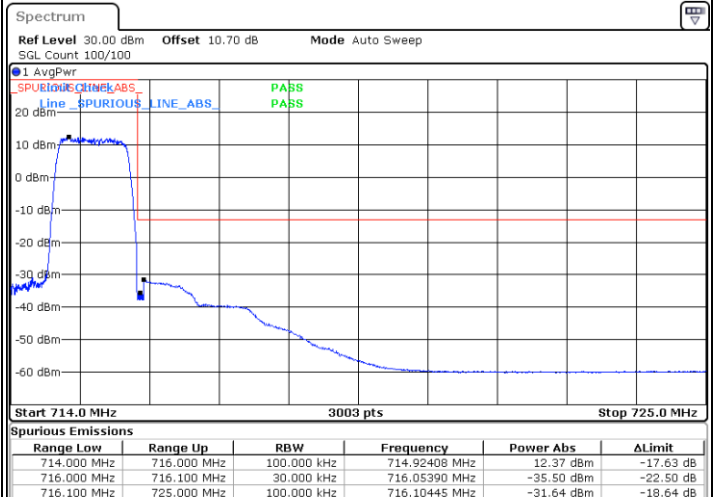


Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

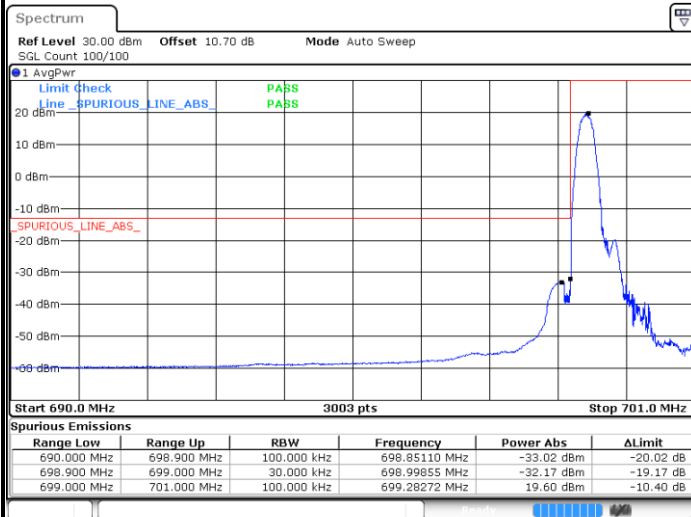


**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

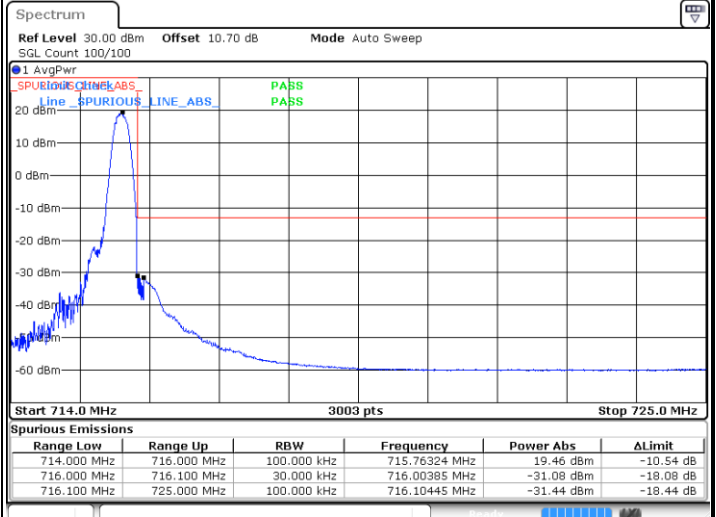


LTE Band 12 / 1.4MHz / 16QAM

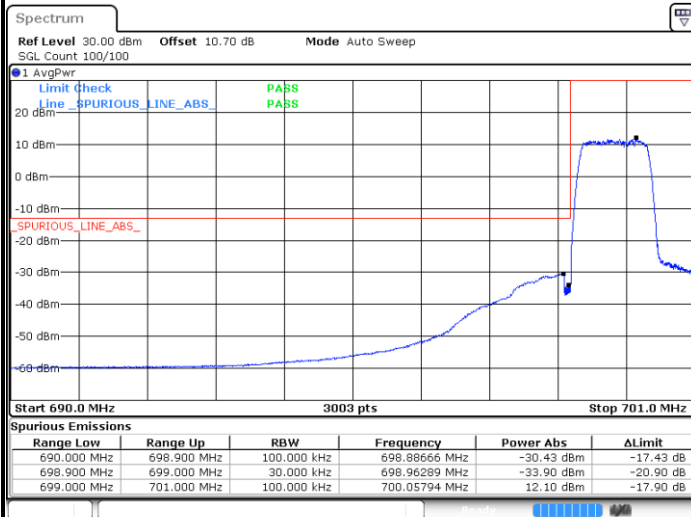
Lowest Band Edge / 1 RB



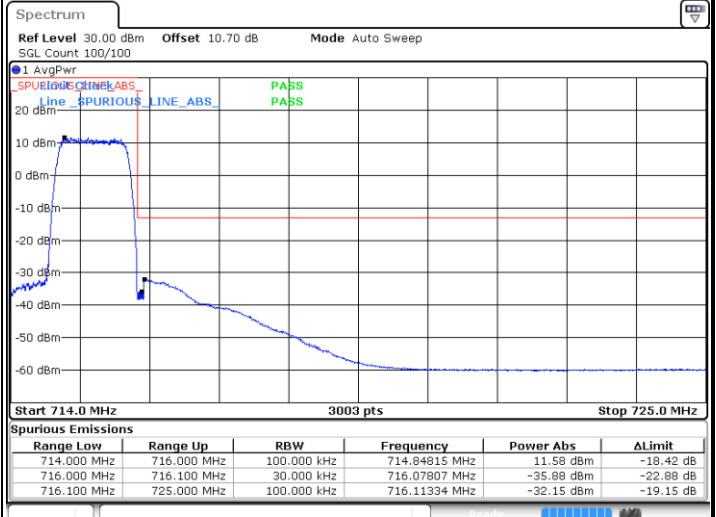
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



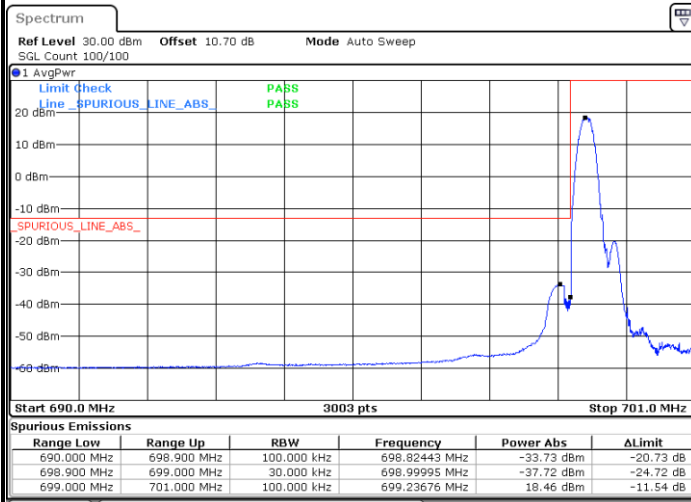
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 64QAM

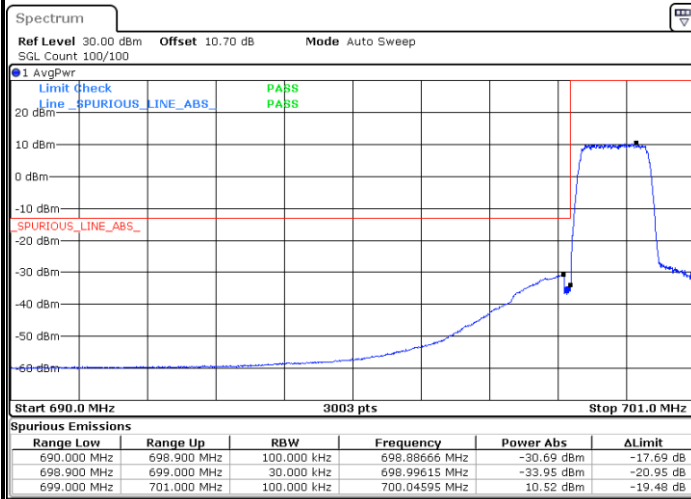
Lowest Band Edge / 1 RB



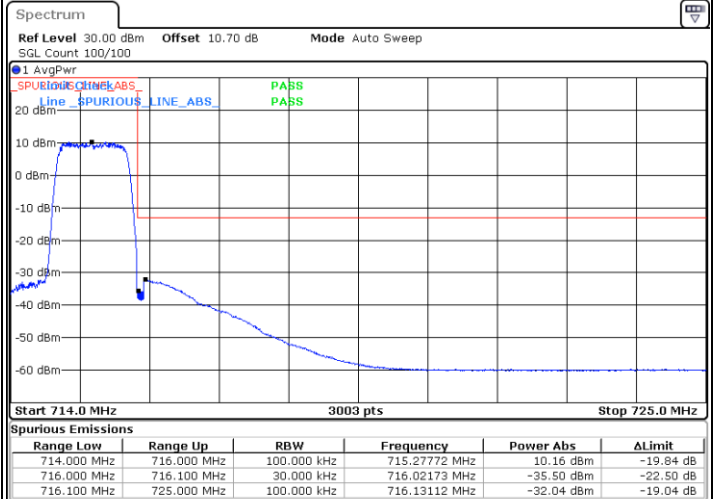
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



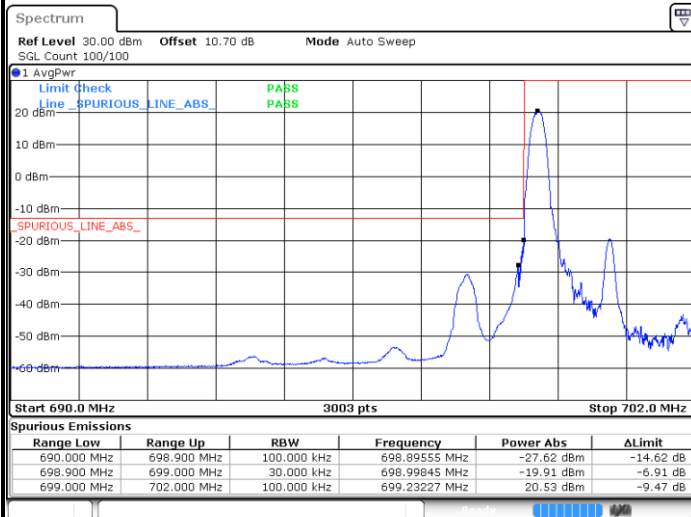
Highest Band Edge / Full RB



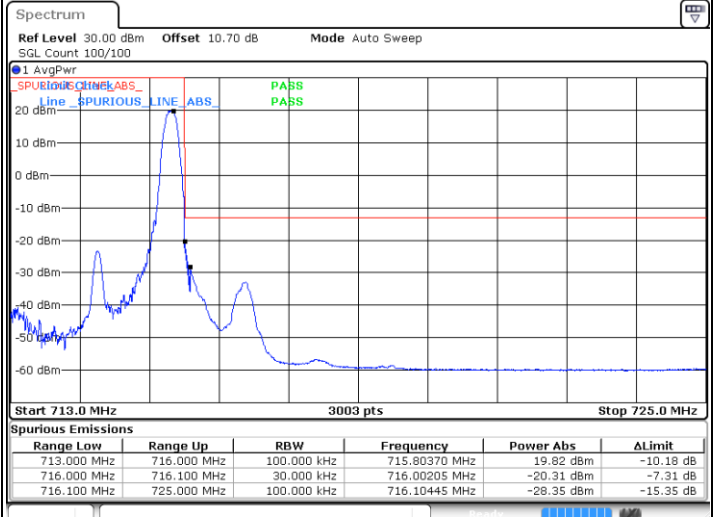


LTE Band 12 / 3MHz / QPSK

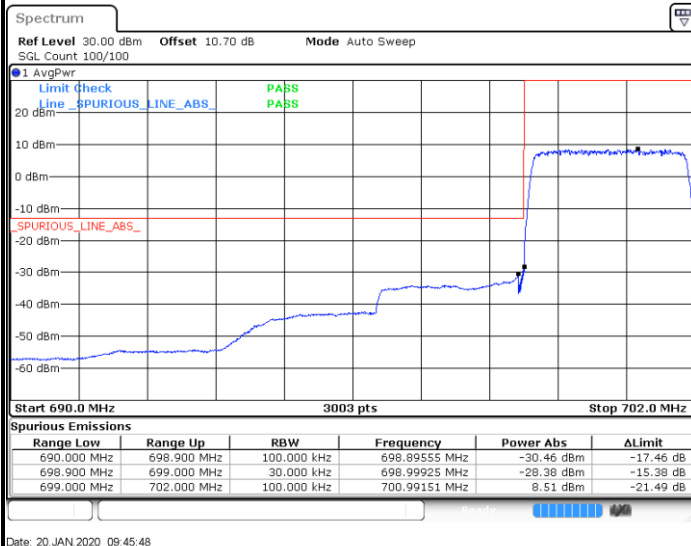
Lowest Band Edge / 1RB



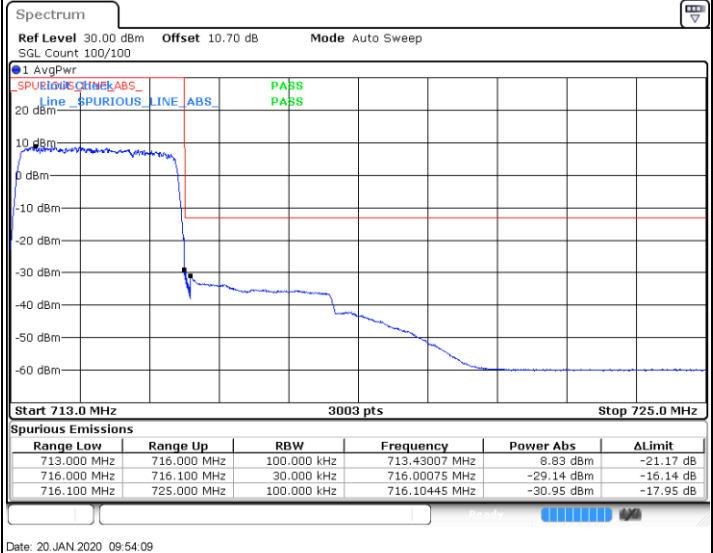
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



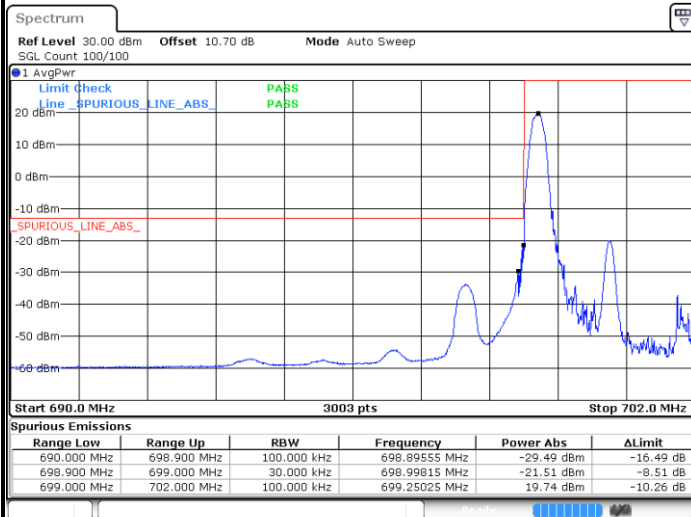
Highest Band Edge / Full RB



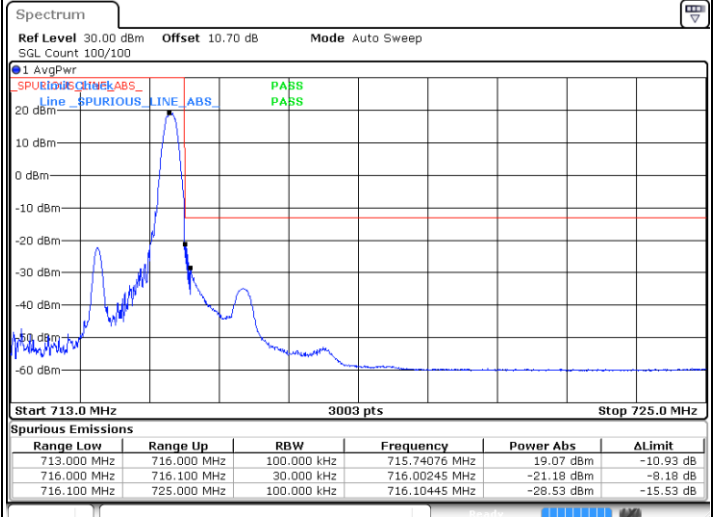


LTE Band 12 / 3MHz / 16QAM

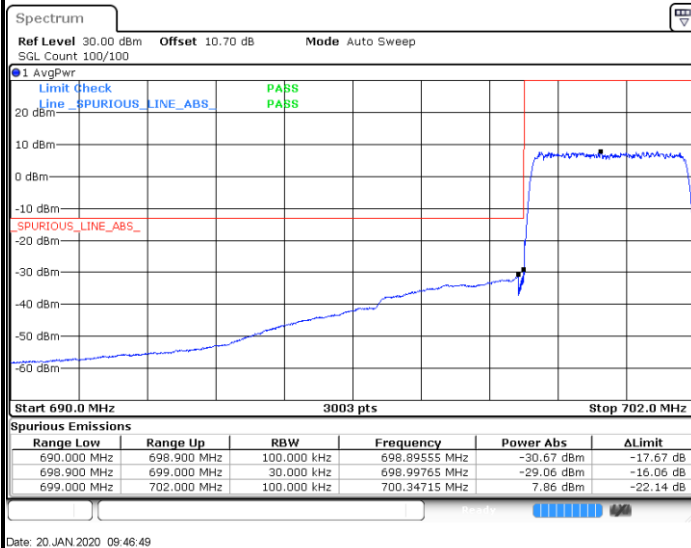
Lowest Band Edge / 1 RB



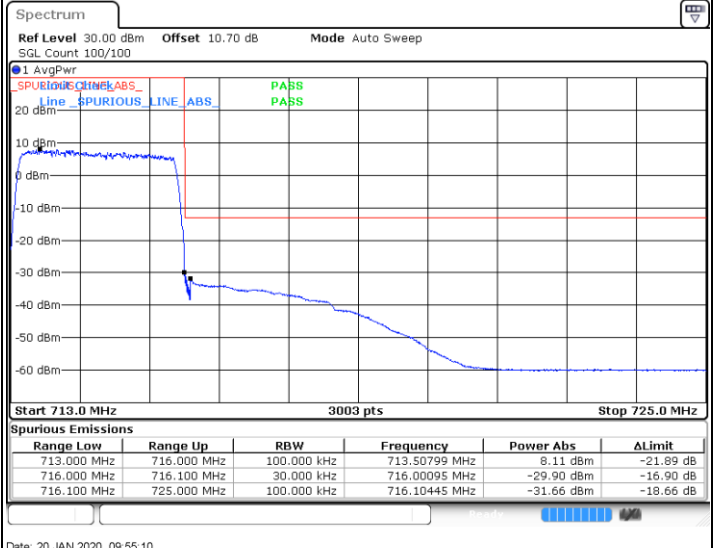
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



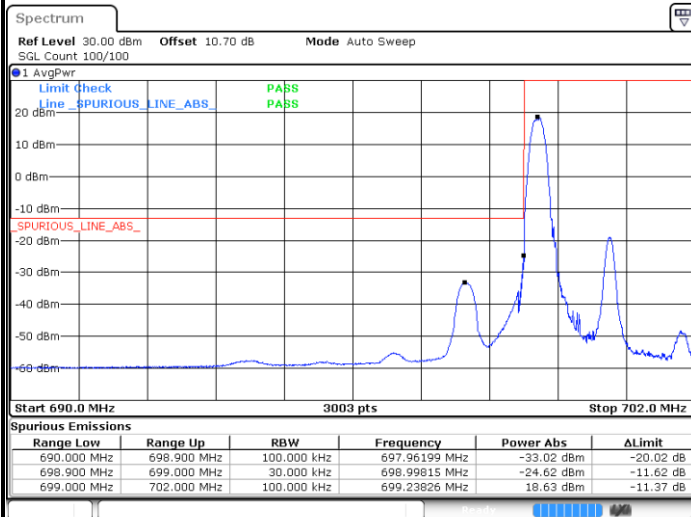
Highest Band Edge / Full RB



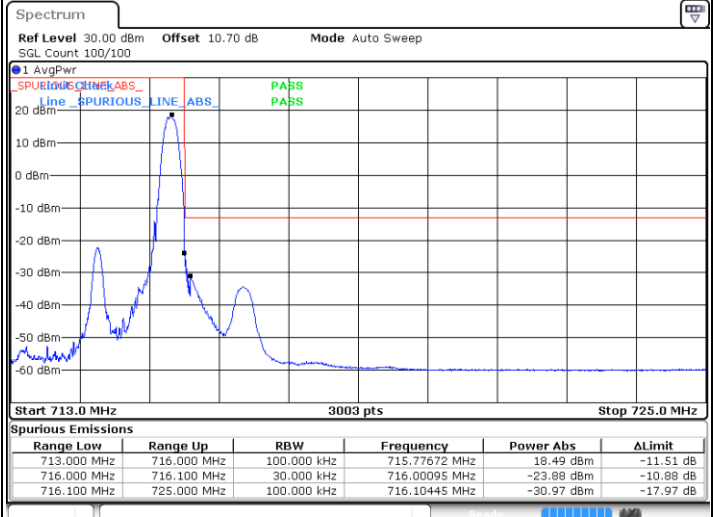


LTE Band 12 / 3MHz / 64QAM

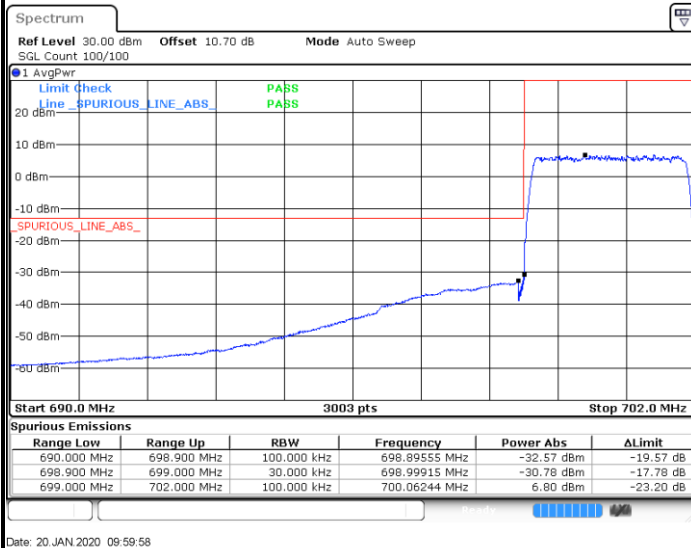
Lowest Band Edge / 1 RB



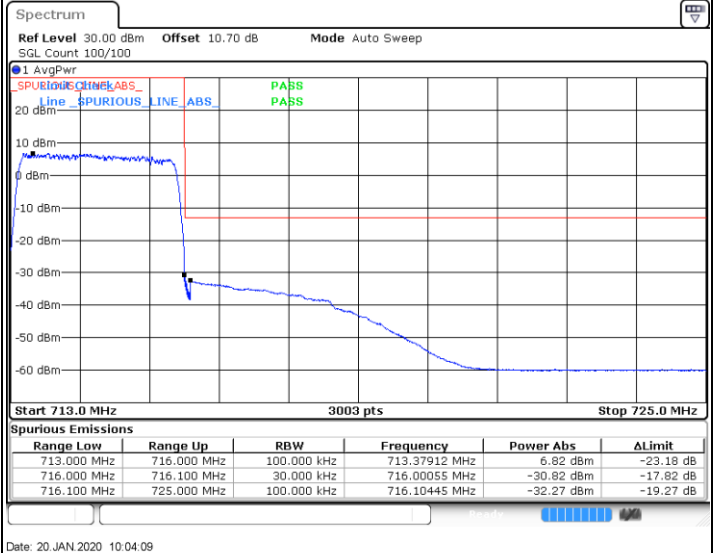
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



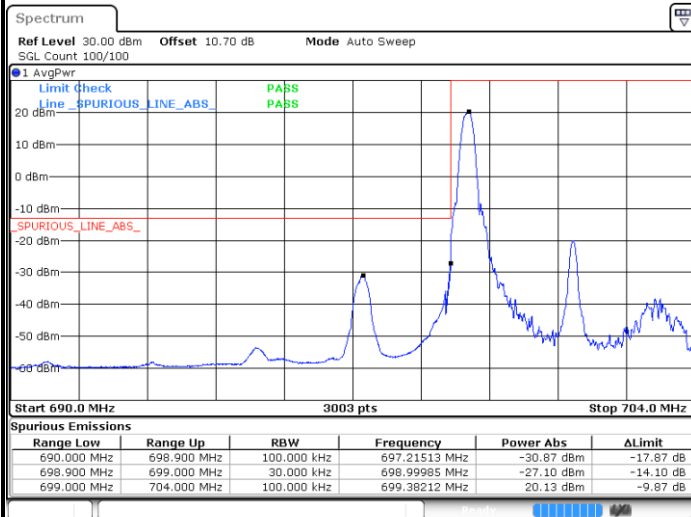
Highest Band Edge / Full RB



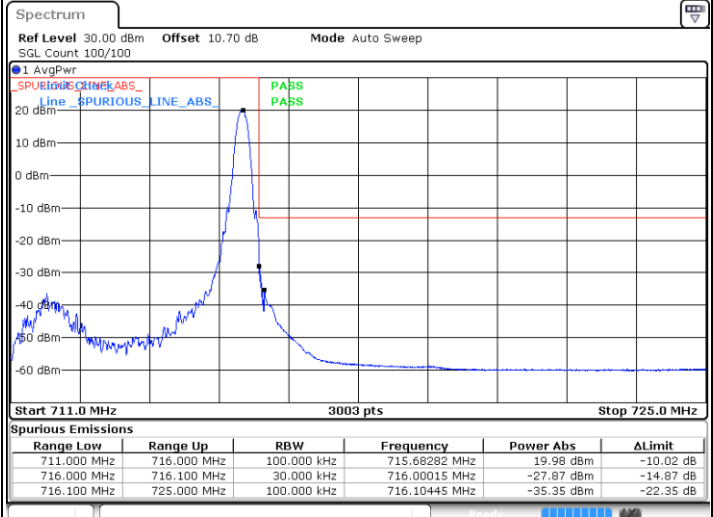


LTE Band 12 / 5MHz / QPSK

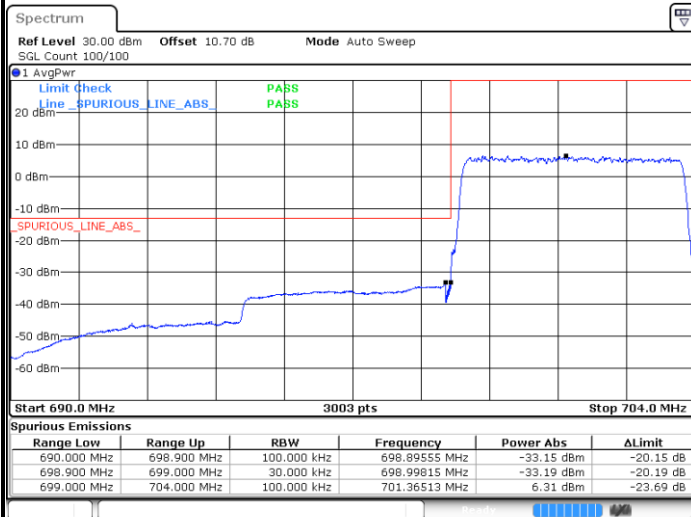
Lowest Band Edge / 1 RB



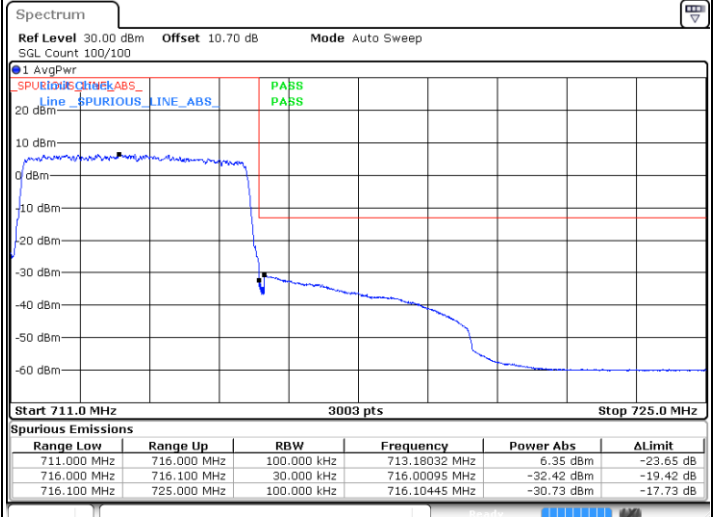
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



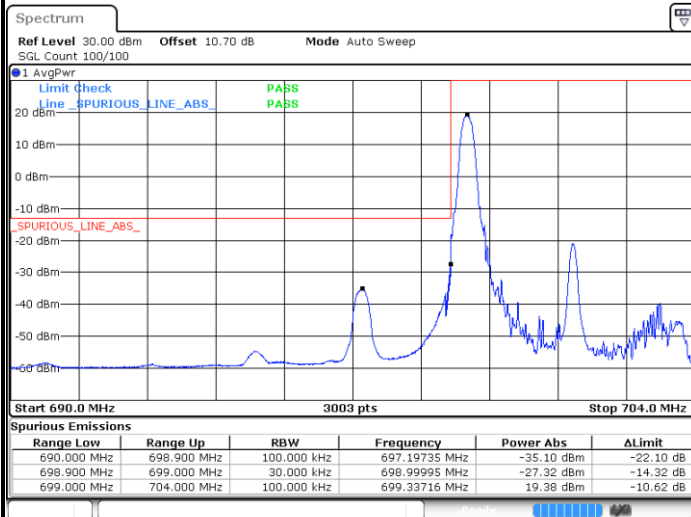
Highest Band Edge / Full RB



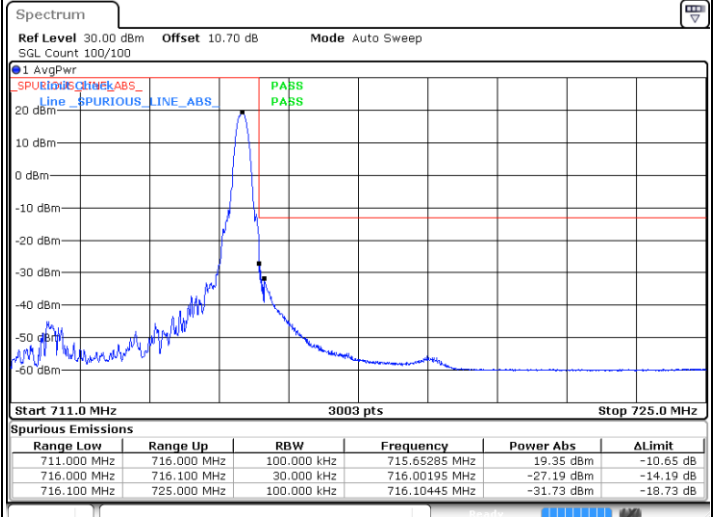


LTE Band 12 / 5MHz / 16QAM

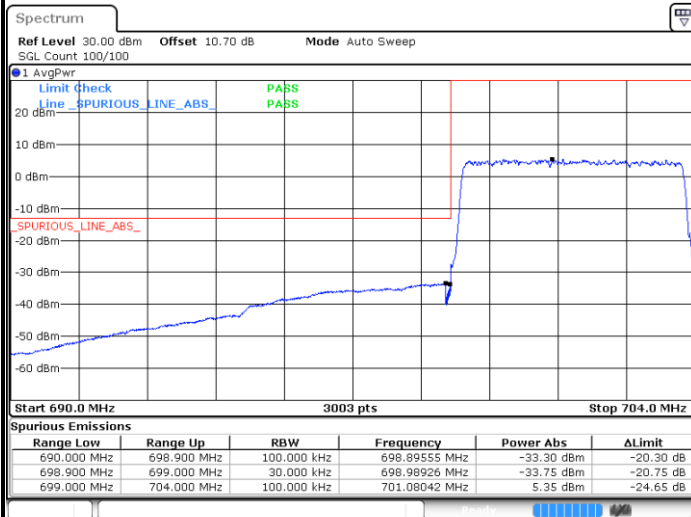
Lowest Band Edge / 1RB



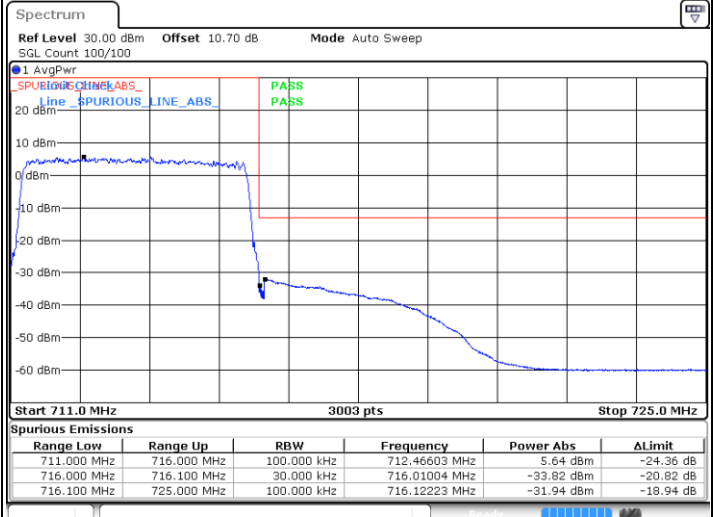
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



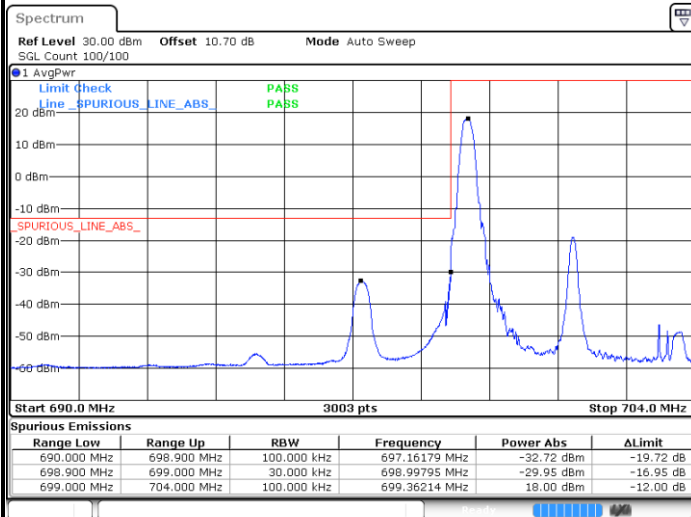
Highest Band Edge / Full RB



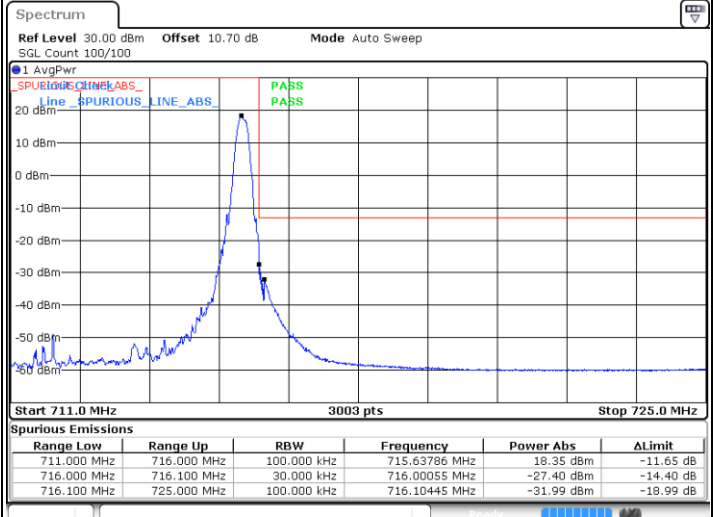


LTE Band 12 / 5MHz / 64QAM

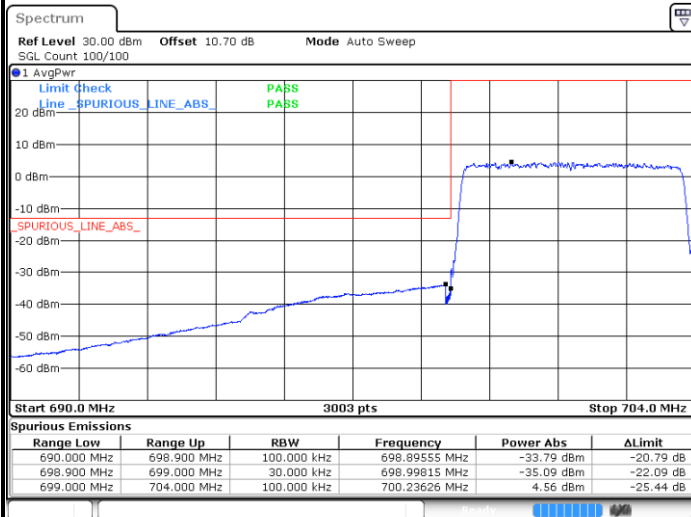
Lowest Band Edge / 1RB



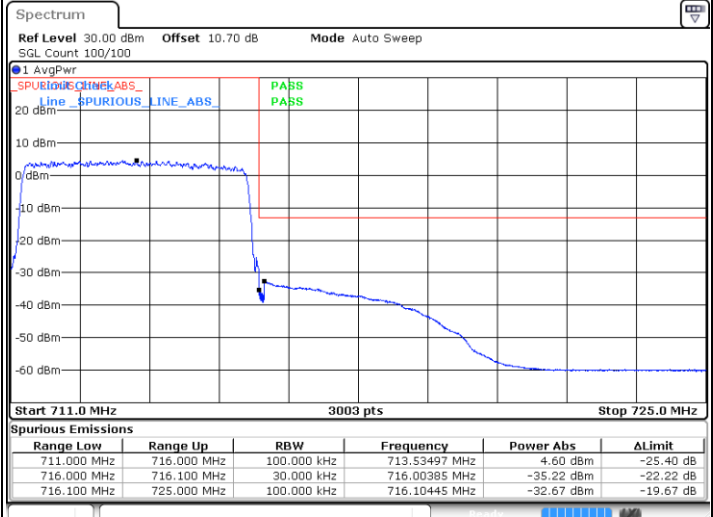
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



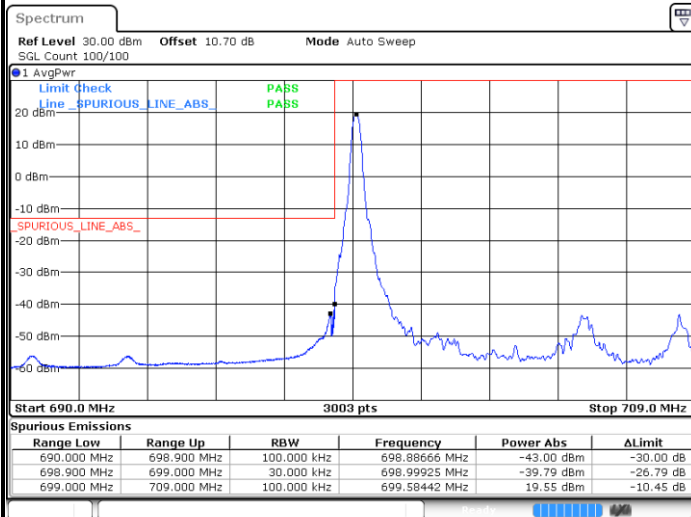
Highest Band Edge / Full RB



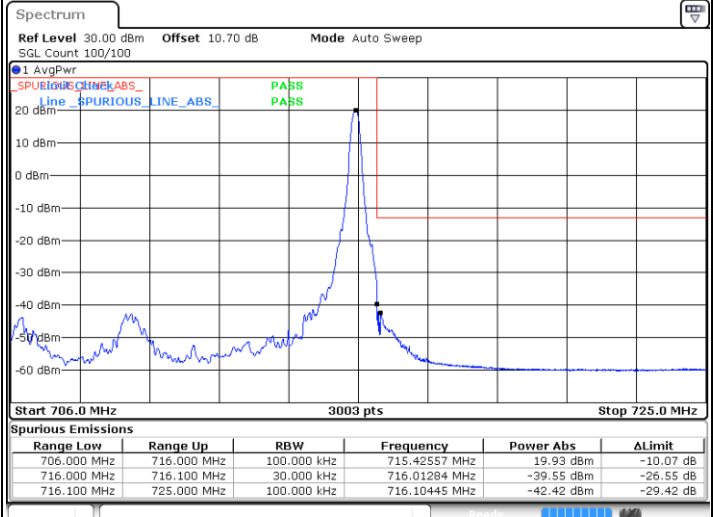


LTE Band 12 / 10MHz / QPSK

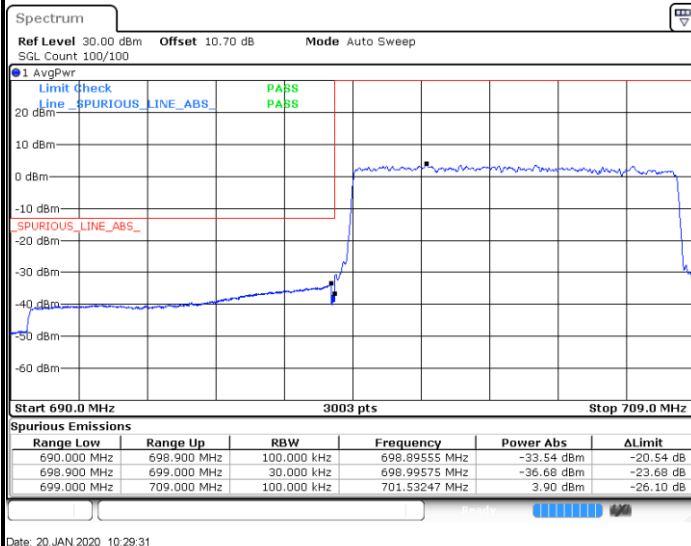
Lowest Band Edge / 1 RB



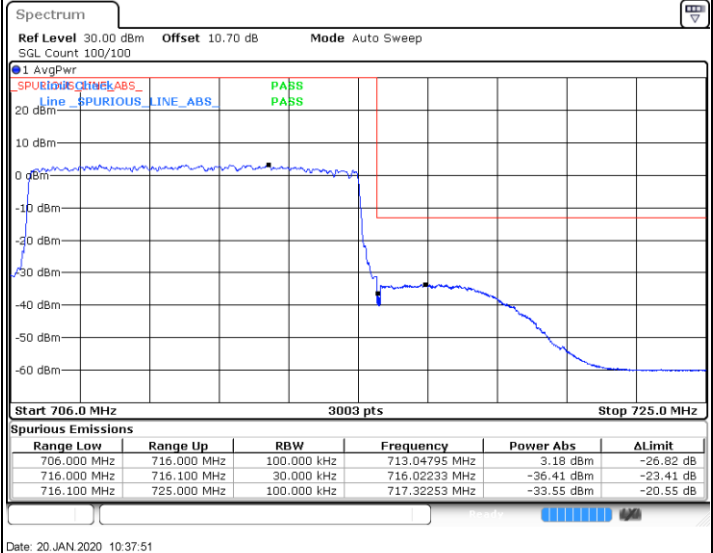
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



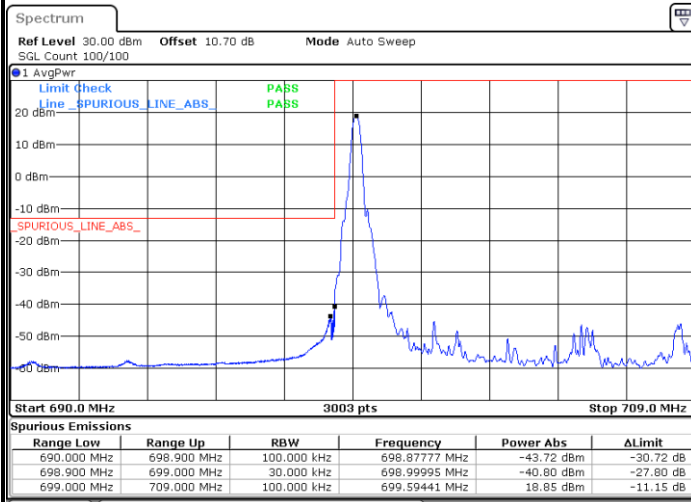
Highest Band Edge / Full RB



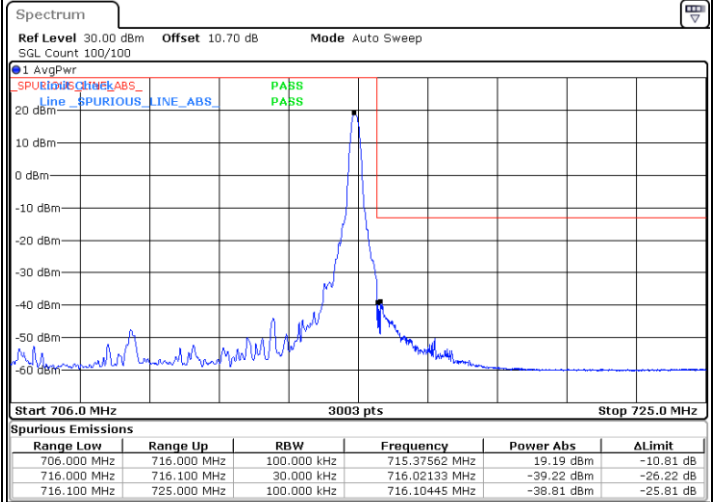


LTE Band 12 / 10MHz / 16QAM

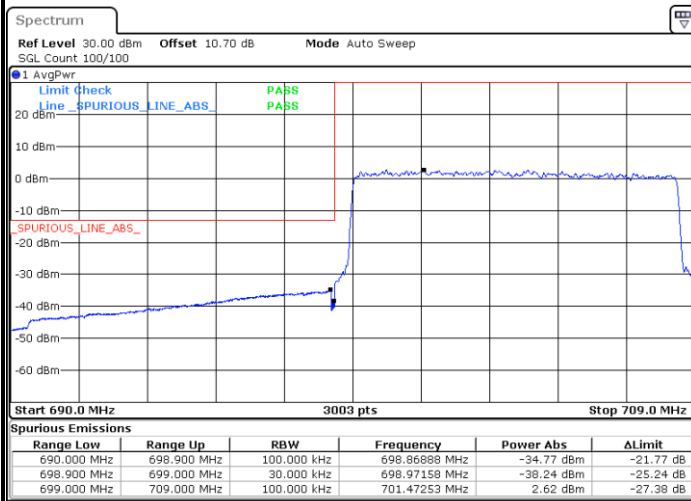
Lowest Band Edge / 1 RB



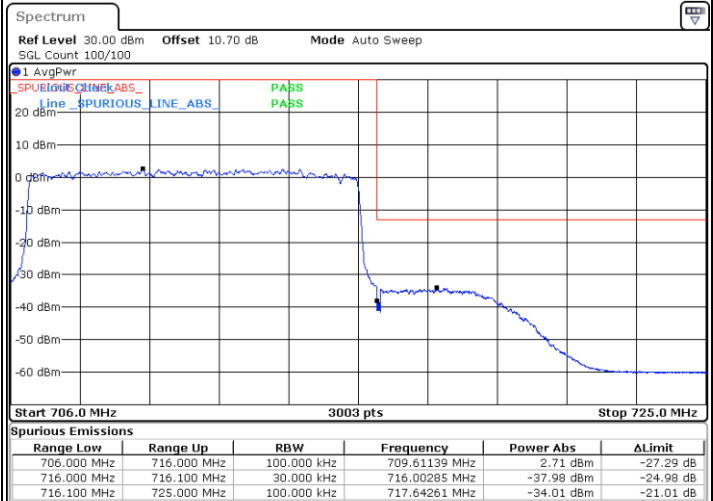
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



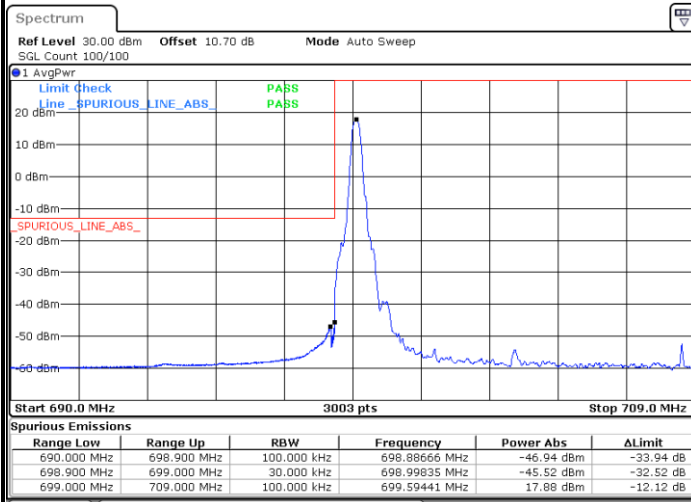
Highest Band Edge / Full RB



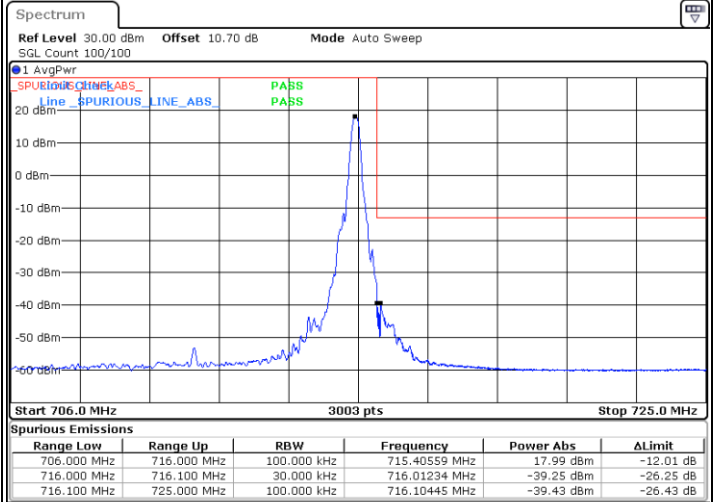


LTE Band 12 / 10MHz / 64QAM

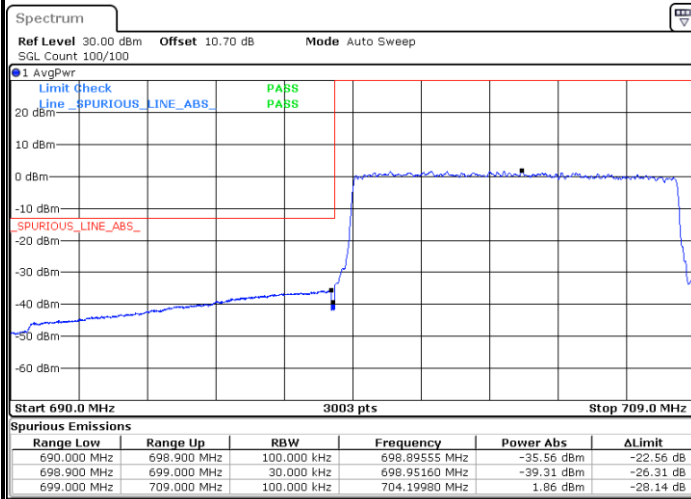
Lowest Band Edge / 1 RB



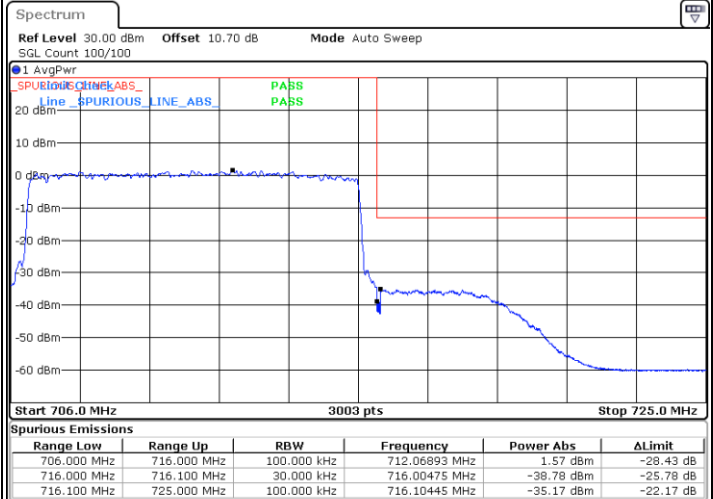
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

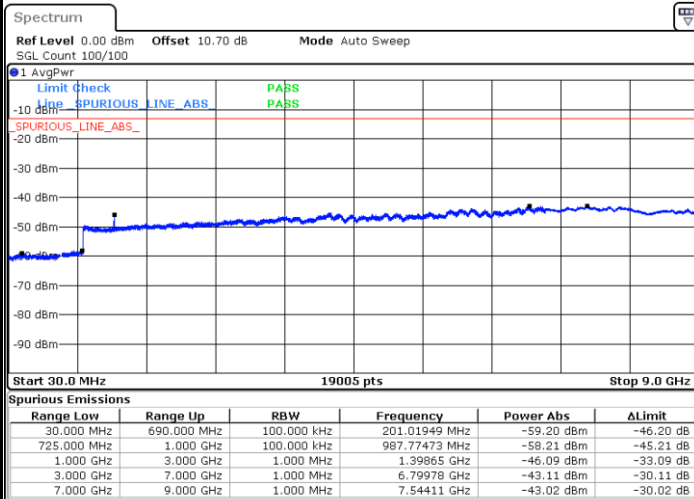




Conducted Spurious Emission

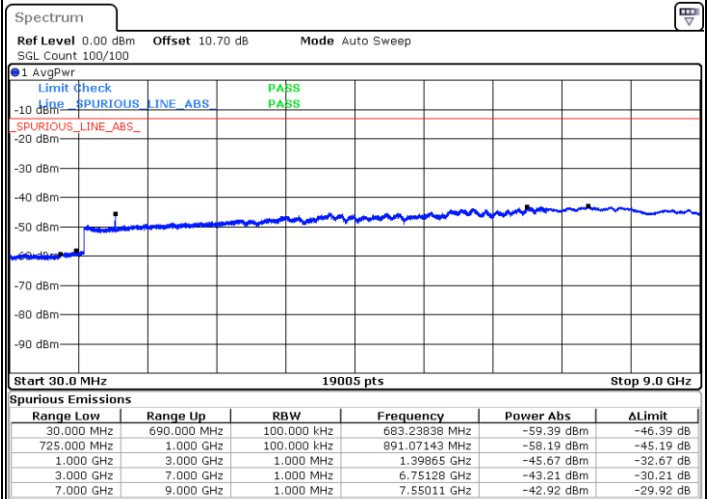
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



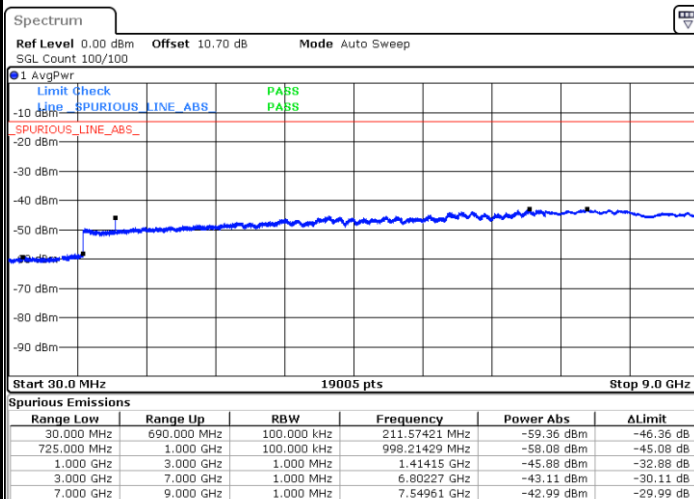
Date: 20 JAN 2020 09:27:41

Lowest Channel / 16QAM



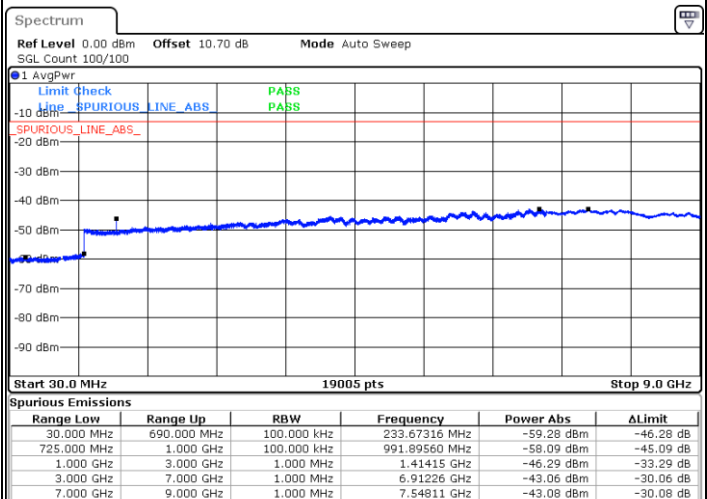
Date: 20 JAN 2020 09:28:22

Middle Channel / QPSK



Date: 20 JAN 2020 09:30:29

Middle Channel / 16QAM

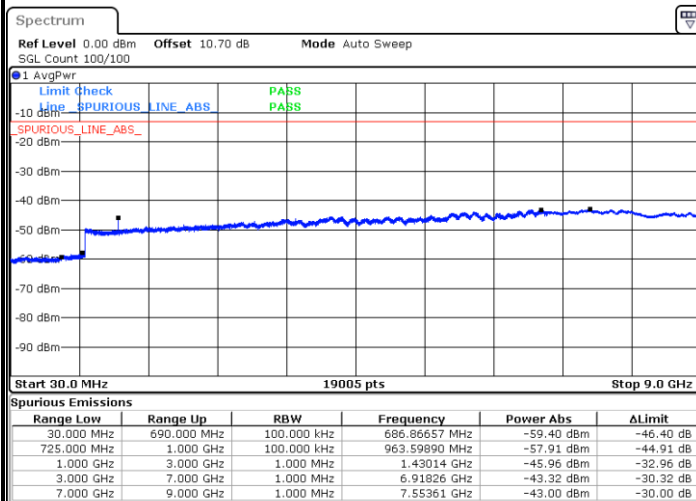


Date: 20 JAN 2020 09:29:49



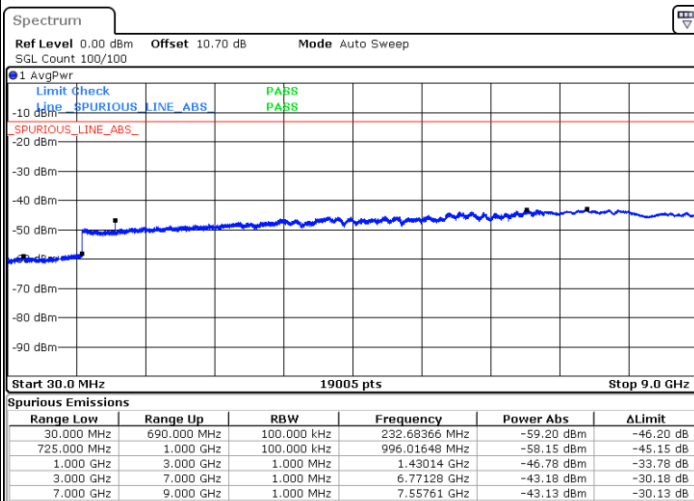
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 20 JAN 2020 09:36:01

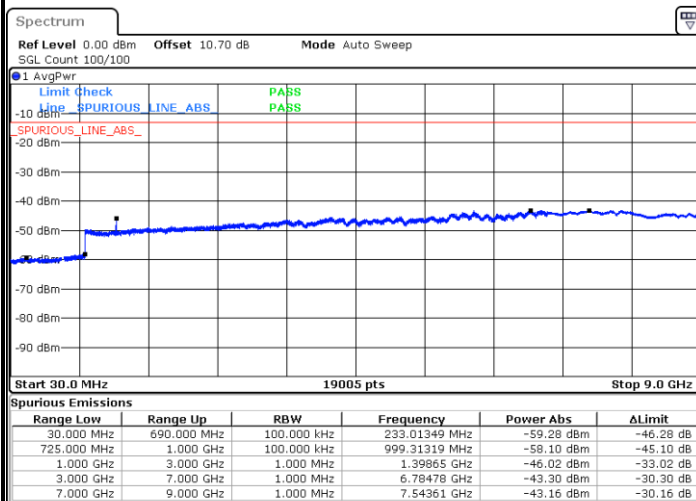
Highest Channel / 16QAM



Date: 20 JAN 2020 09:36:42

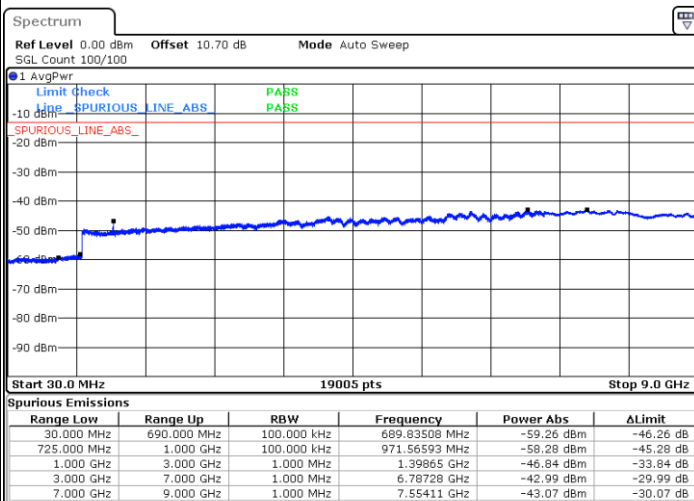
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 20 JAN 2020 09:49:32

Lowest Channel / 16QAM

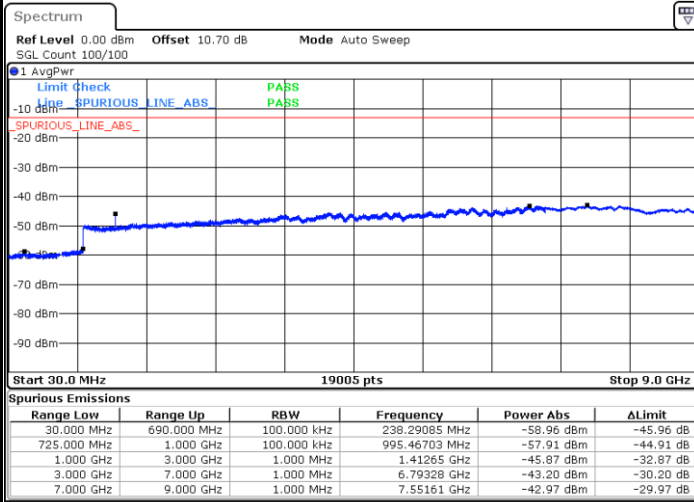


Date: 20 JAN 2020 09:50:13



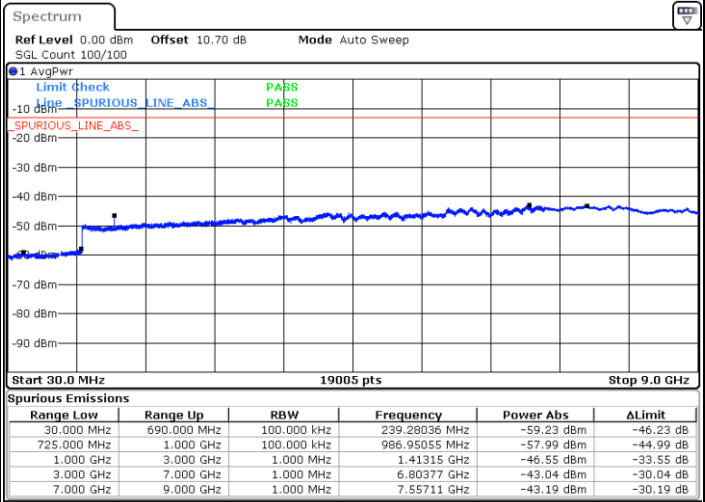
LTE Band 12 / 3MHz

Middle Channel / QPSK



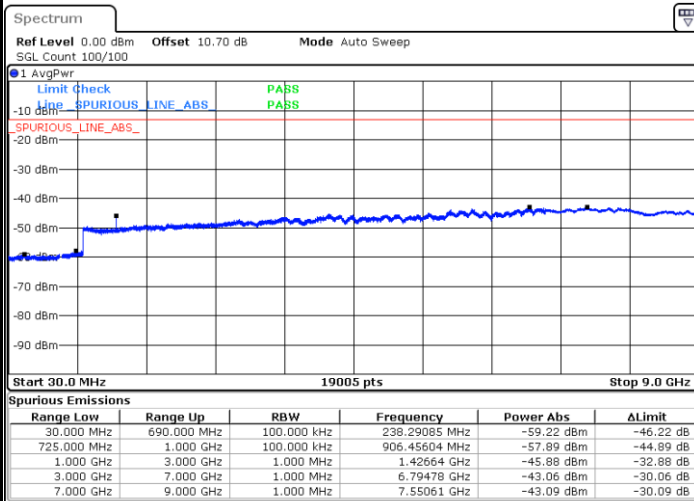
Date: 20 JAN 2020 09:52:20

Middle Channel / 16QAM



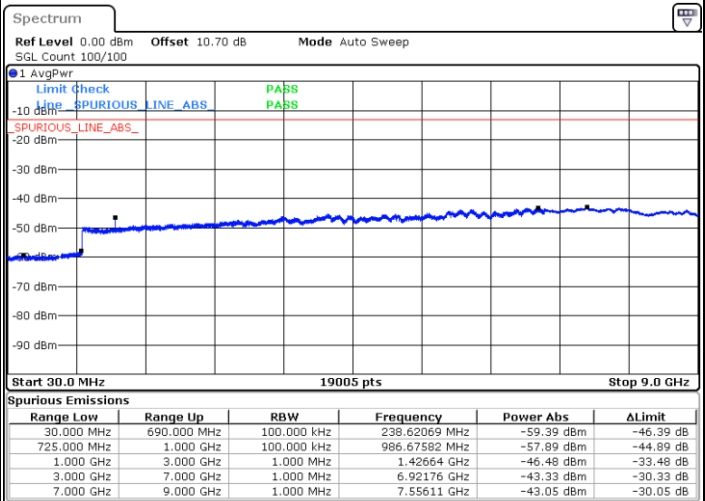
Date: 20 JAN 2020 09:51:40

Highest Channel / QPSK



Date: 20 JAN 2020 09:57:53

Highest Channel / 16QAM

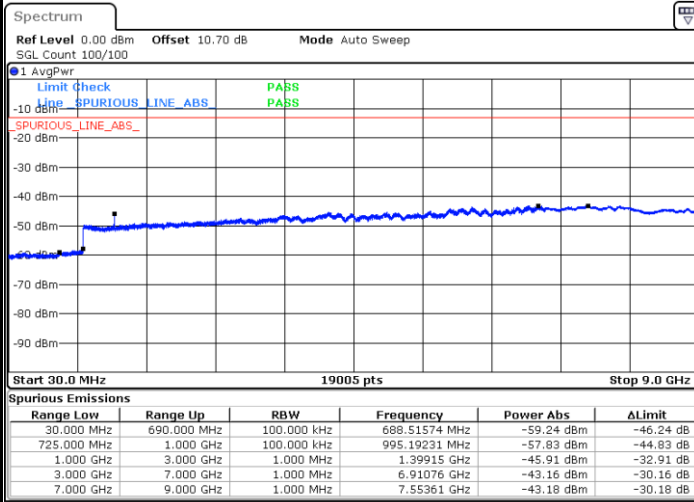


Date: 20 JAN 2020 09:58:34



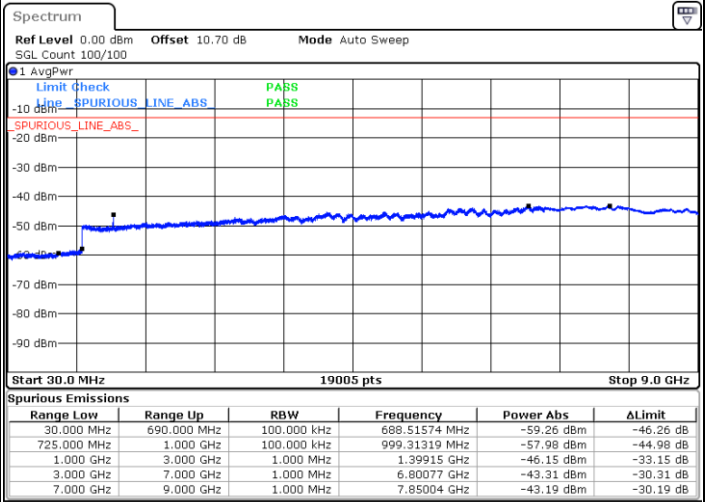
LTE Band 12 / 5MHz

Lowest Channel / QPSK



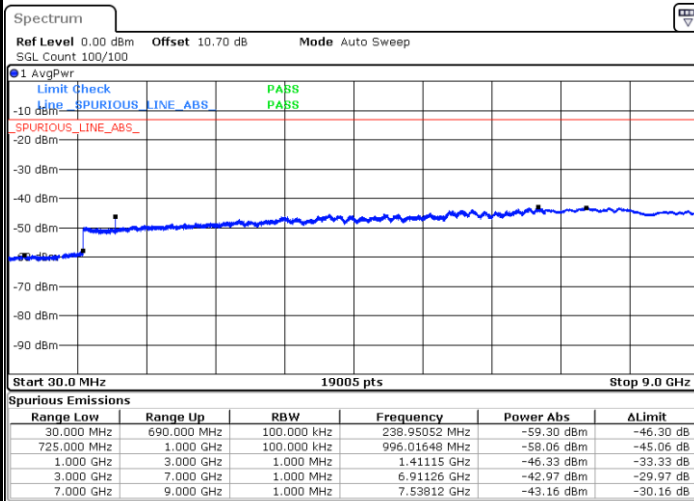
Date: 20 JAN 2020 10:18:41

Lowest Channel / 16QAM



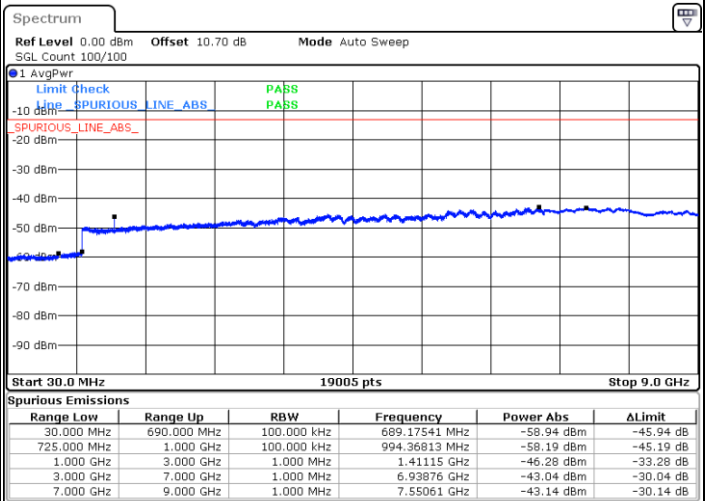
Date: 20 JAN 2020 10:19:21

Middle Channel / QPSK



Date: 20 JAN 2020 10:21:29

Middle Channel / 16QAM

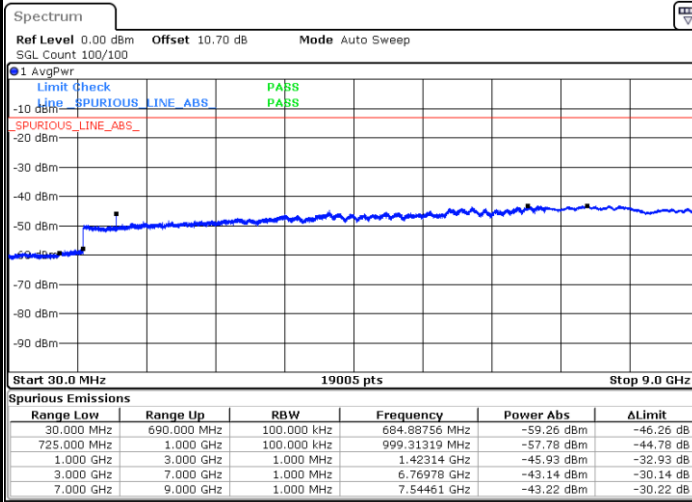


Date: 20 JAN 2020 10:20:49



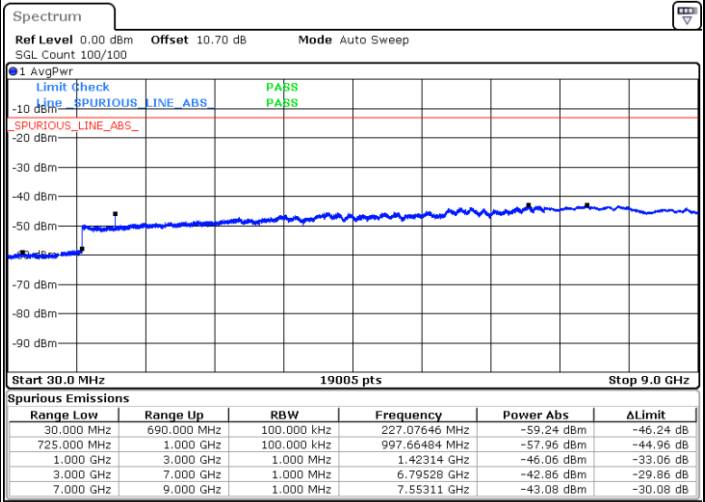
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 20 JAN 2020 10:27:42

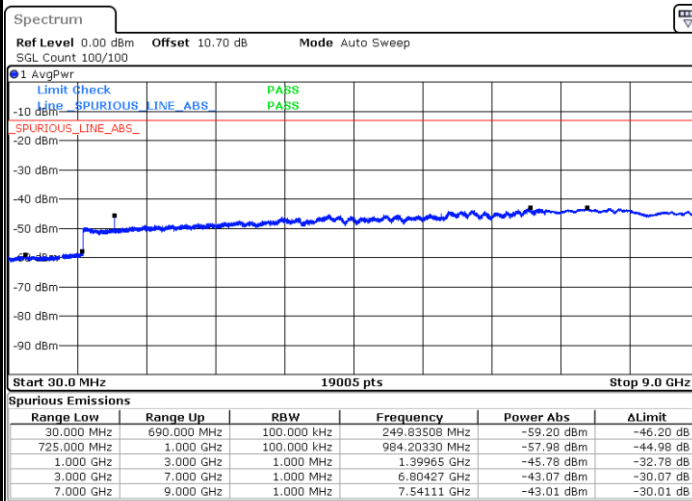
Highest Channel / 16QAM



Date: 20 JAN 2020 10:27:01

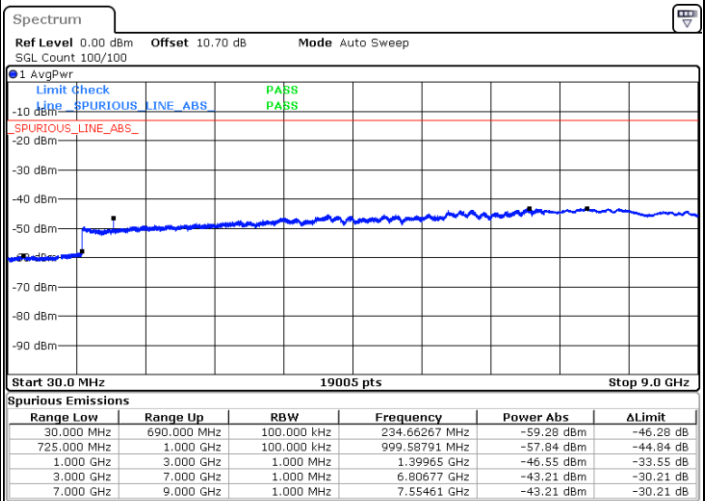
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 20 JAN 2020 10:33:15

Lowest Channel / 16QAM

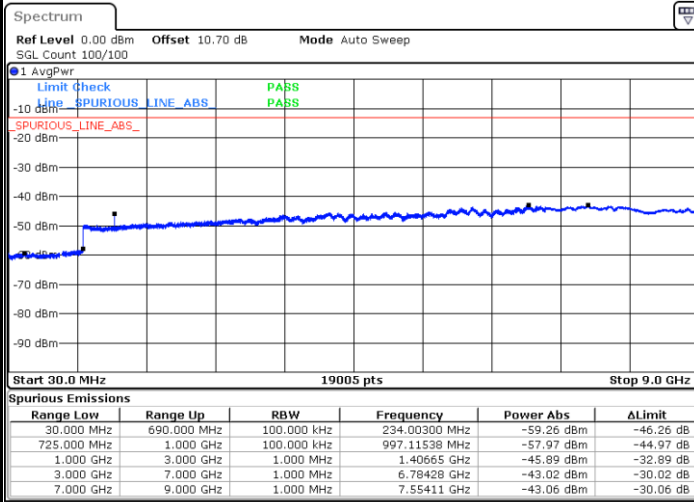


Date: 20 JAN 2020 10:33:56



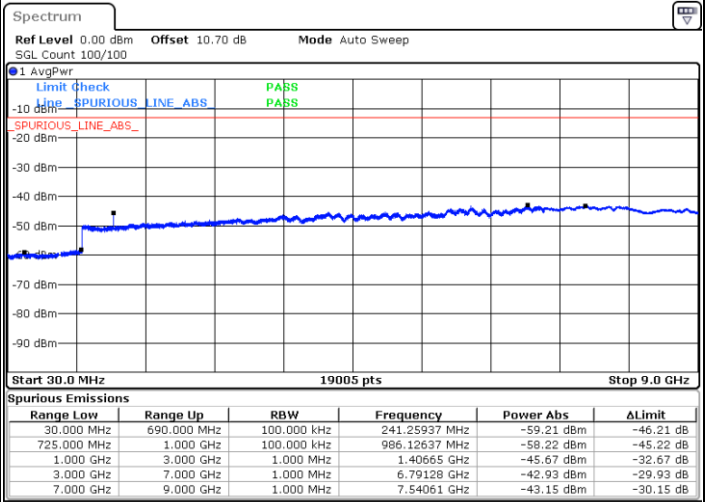
LTE Band 12 / 10MHz

Middle Channel / QPSK



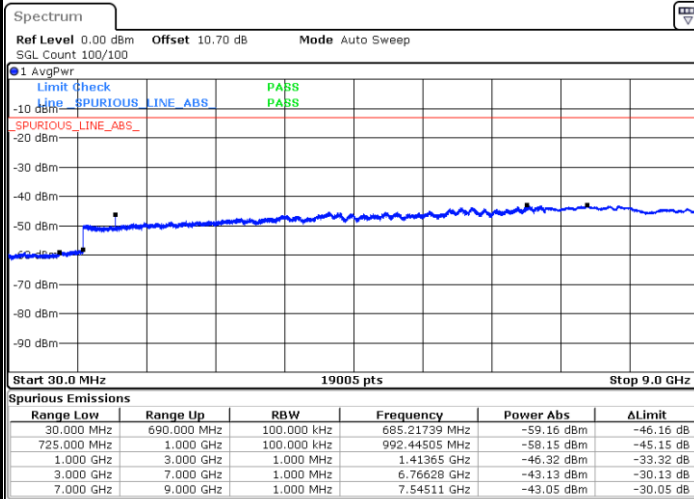
Date: 20 JAN 2020 10:36:03

Middle Channel / 16QAM



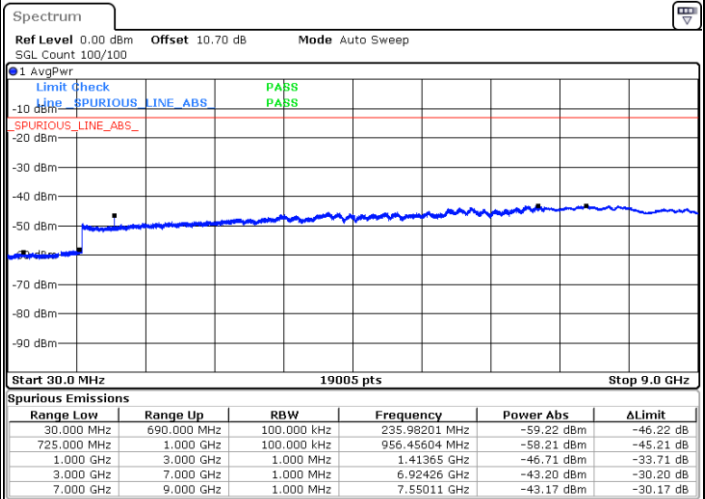
Date: 20 JAN 2020 10:35:23

Highest Channel / QPSK



Date: 20 JAN 2020 10:41:34

Highest Channel / 16QAM

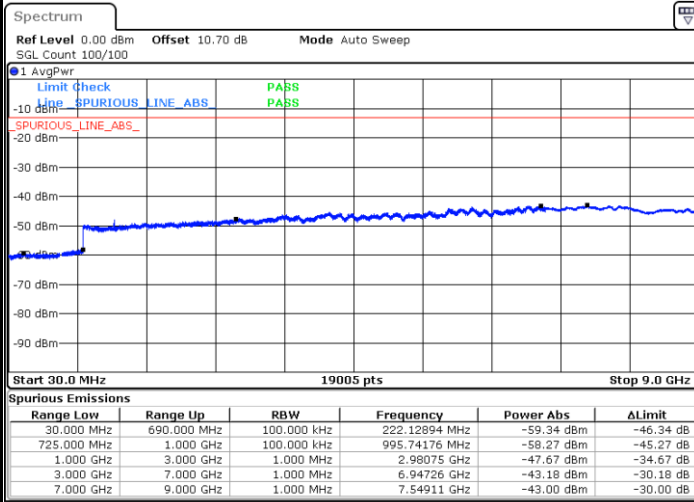


Date: 20 JAN 2020 10:42:15



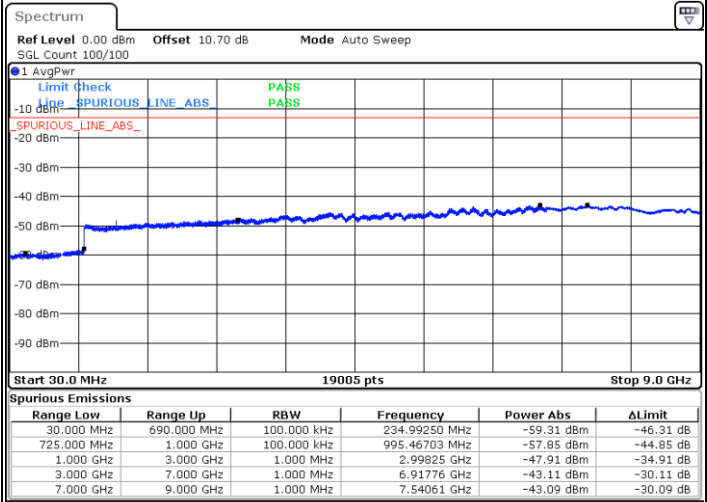
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



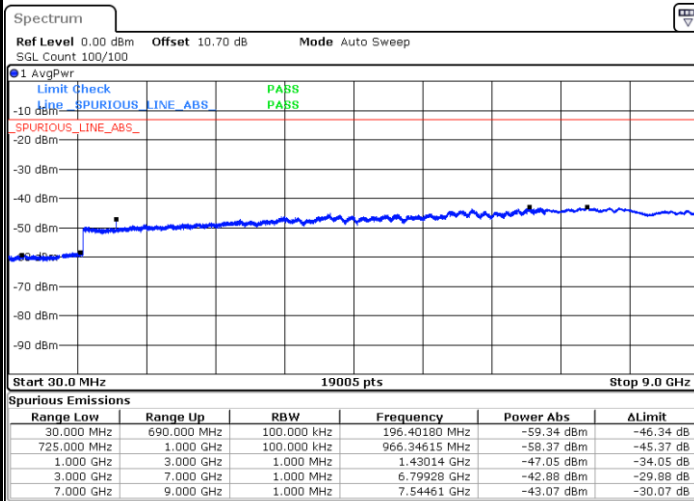
Date: 20 JAN 2020 09:39:49

Middle Channel / 64QAM



Date: 20 JAN 2020 09:40:52

Highest Channel / 64QAM

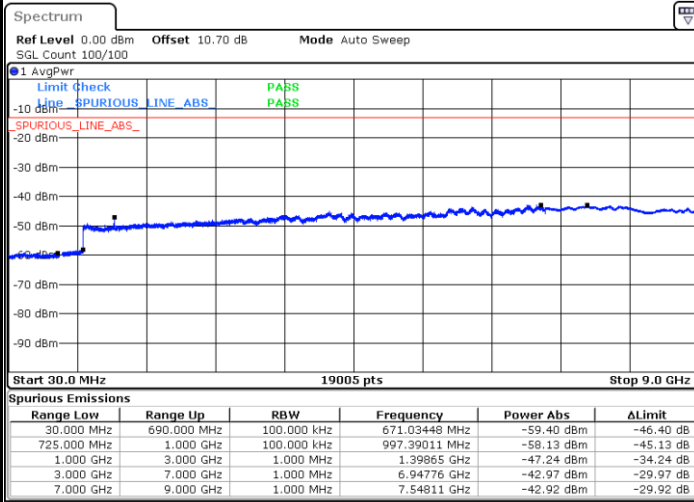


Date: 20 JAN 2020 09:43:59



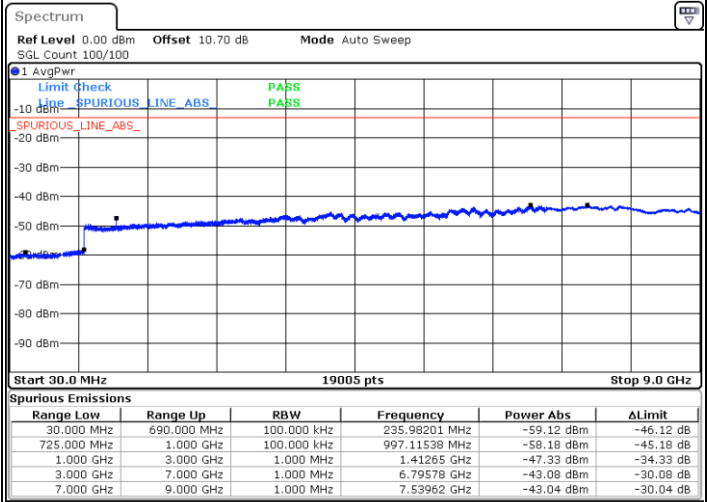
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



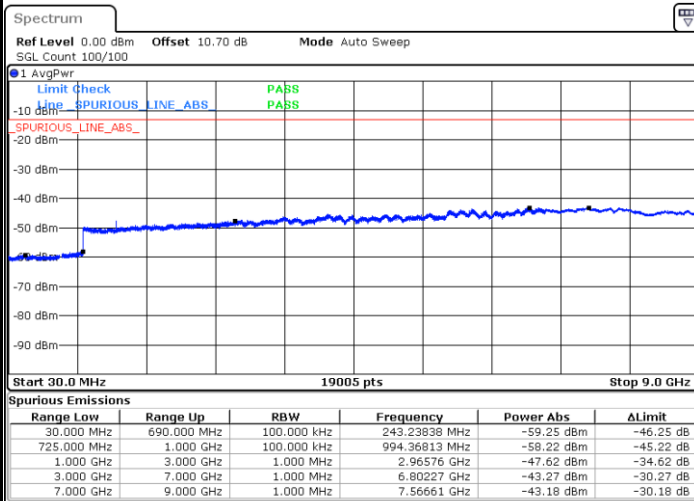
Date: 20 JAN 2020 10:01:41

Middle Channel / 64QAM



Date: 20 JAN 2020 10:02:44

Highest Channel / 64QAM

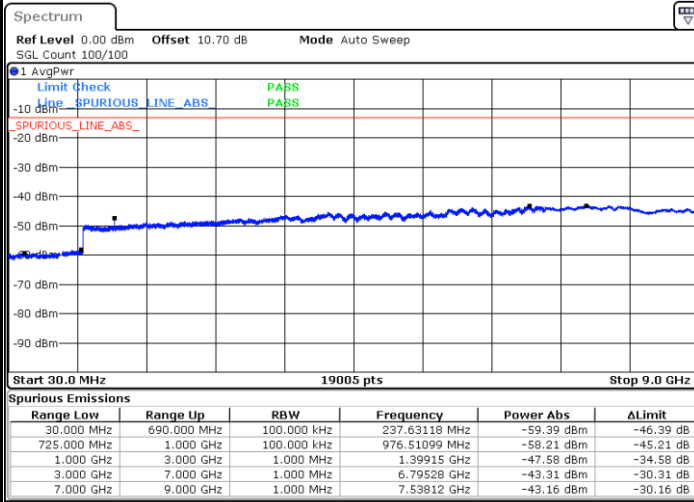


Date: 20 JAN 2020 10:05:51



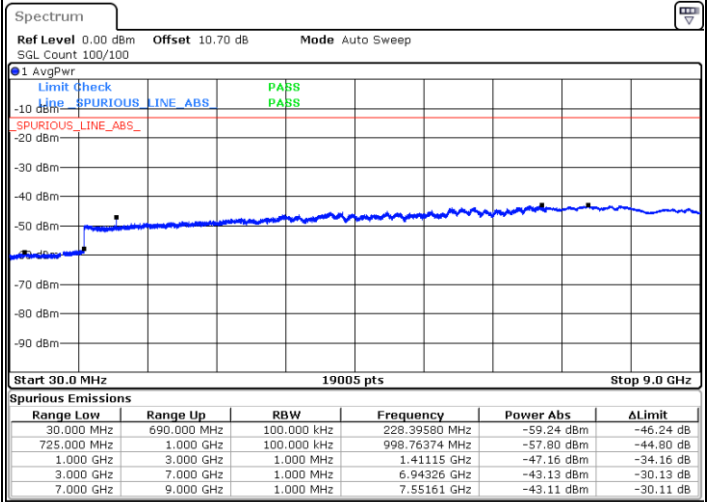
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



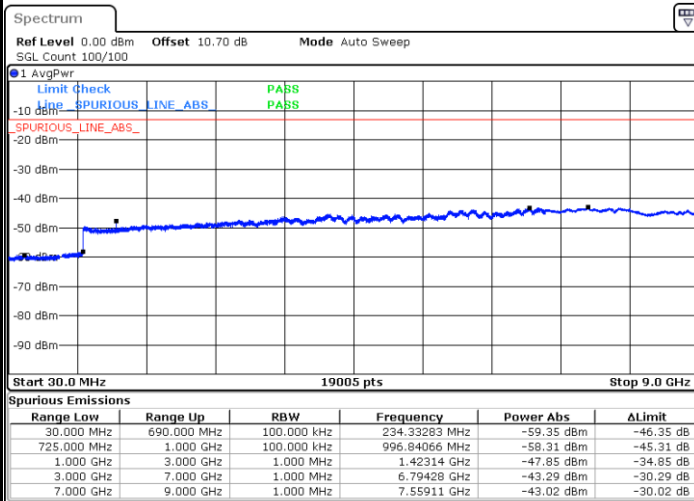
Date: 20 JAN 2020 10:08:58

Middle Channel / 64QAM



Date: 20 JAN 2020 10:10:02

Highest Channel / 64QAM

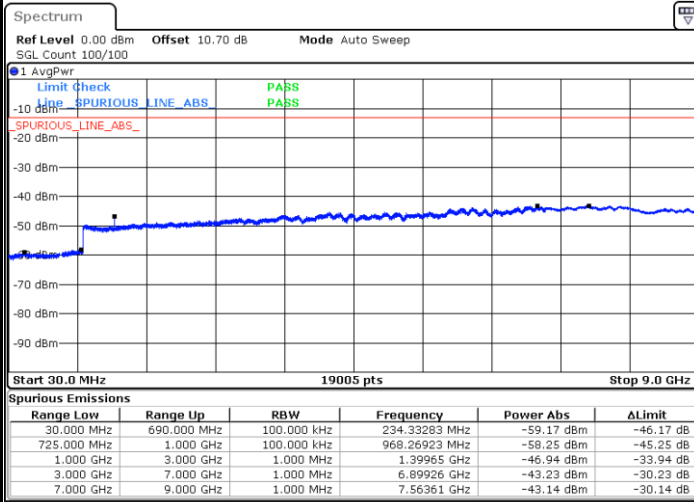


Date: 20 JAN 2020 10:13:08



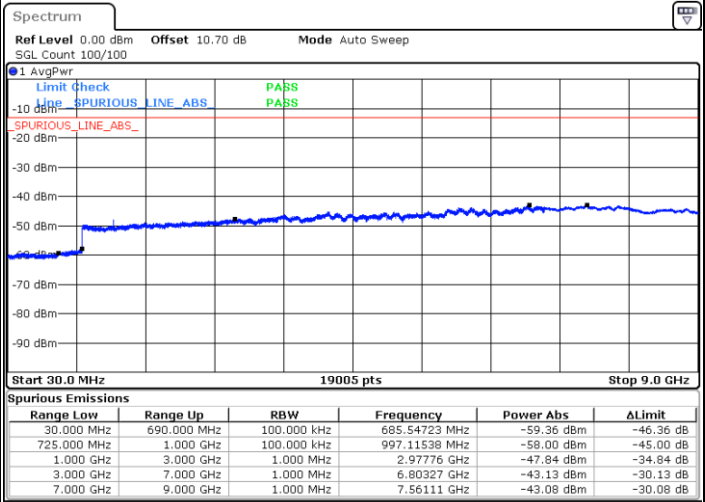
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



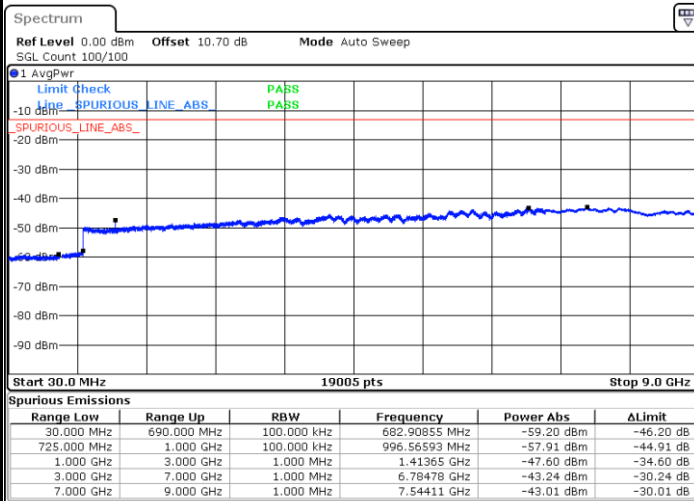
Date: 20 JAN 2020 10:45:22

Middle Channel / 64QAM



Date: 20 JAN 2020 10:46:25

Highest Channel / 64QAM



Date: 20 JAN 2020 10:49:31

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	0.0064	PASS
40	Normal Voltage	0.0083	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0095	
-10	Normal Voltage	0.0083	
-20	Normal Voltage	0.0096	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0096	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0090	

Note:

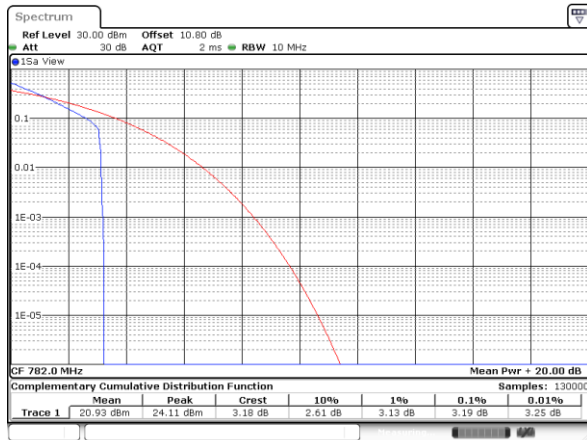
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



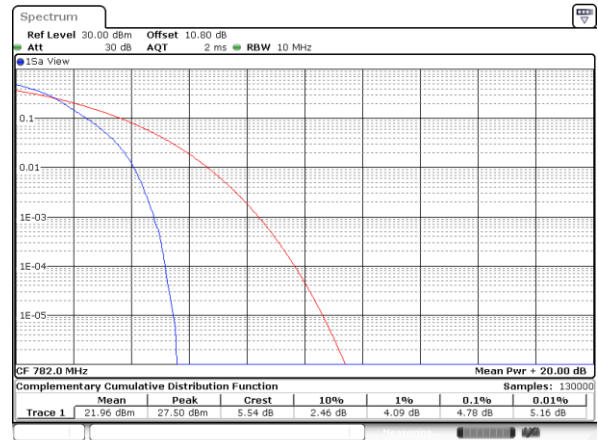
LTE Band 13_Ant. 0

Peak-to-Average Ratio

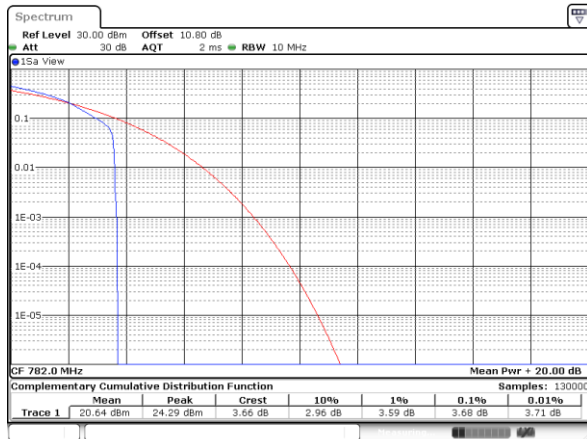
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.19	4.78	3.68	5.80	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.59	6.23	-	-	
Highest CH	-	-	-	-	

LTE Band 13 / 10MHz / QPSK
Middle Channel / 1RB


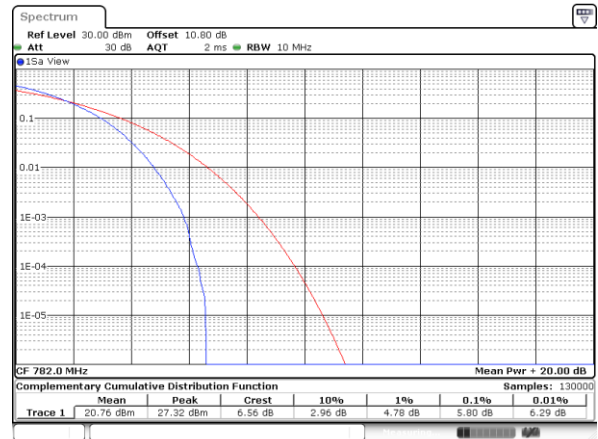
Date: 20 JAN 2020 13:43:26

Middle Channel / Full RB


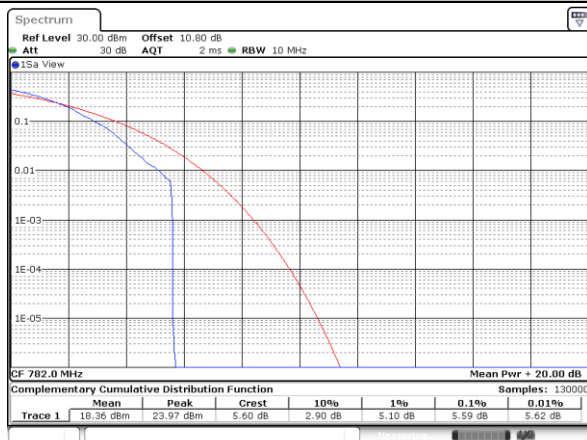
Date: 20 JAN 2020 13:43:41

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


Date: 20 JAN 2020 13:42:53

Middle Channel / Full RB


Date: 20 JAN 2020 13:43:07

LTE Band 13 / 10MHz / 64QAM
Middle Channel / 1RB


Date: 20 JAN 2020 13:45:05

Middle Channel / Full RB


Date: 20 JAN 2020 13:36:05

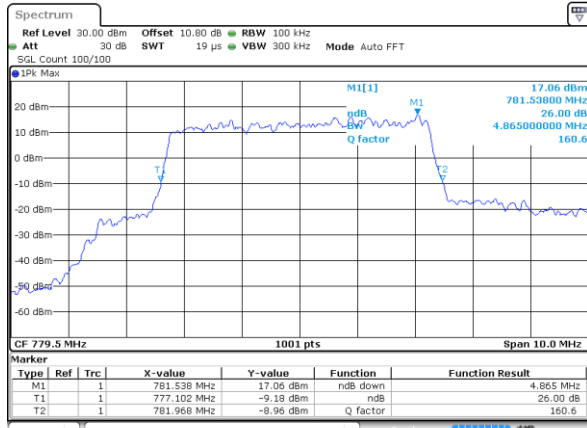
**26dB Bandwidth**

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	-	-	-	-	4.87	4.79	-	-	-	-	-	-
Middle CH	-	-	-	-	4.90	4.94	9.75	9.79	-	-	-	-
Highest CH	-	-	-	-	4.88	4.94	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.86	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.97	-	9.65	-	-	-	-	-
Highest CH	-	-	-	-	4.90	-	-	-	-	-	-	-

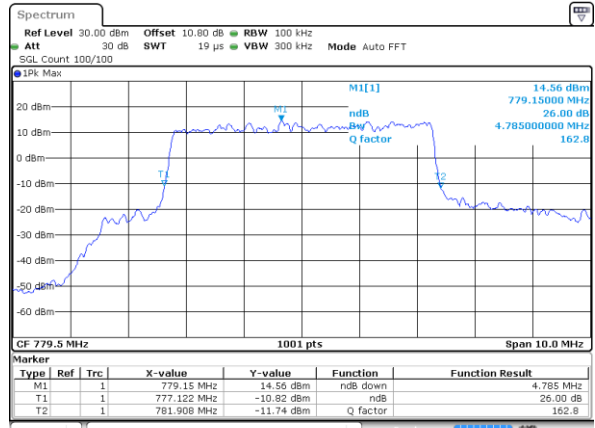


LTE Band 13

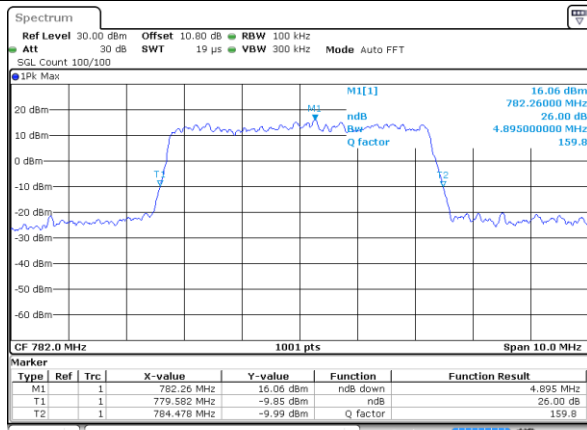
Lowest Channel / 5MHz / QPSK



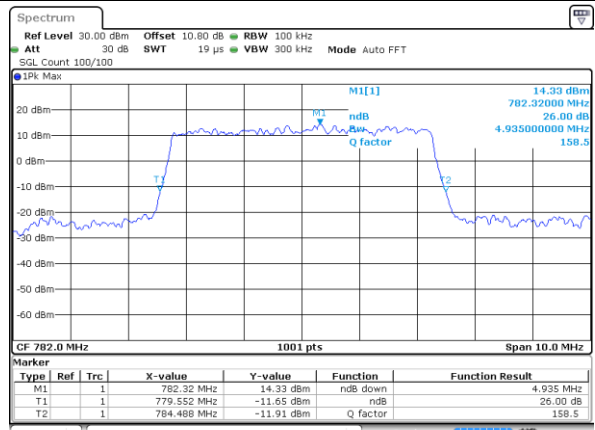
Lowest Channel / 5MHz / 16QAM



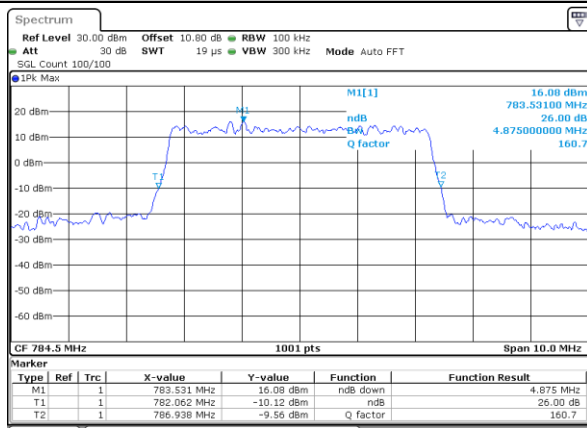
Middle Channel / 5MHz / QPSK



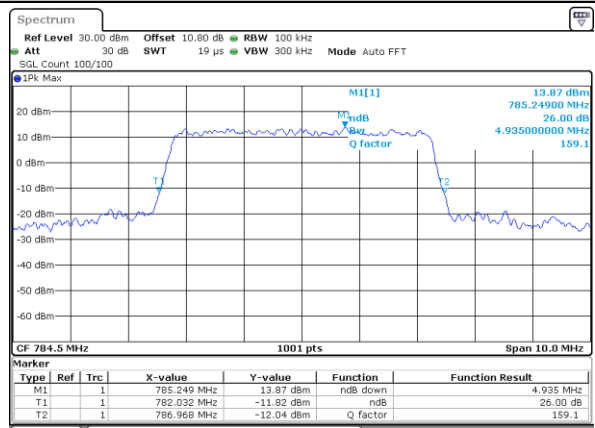
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



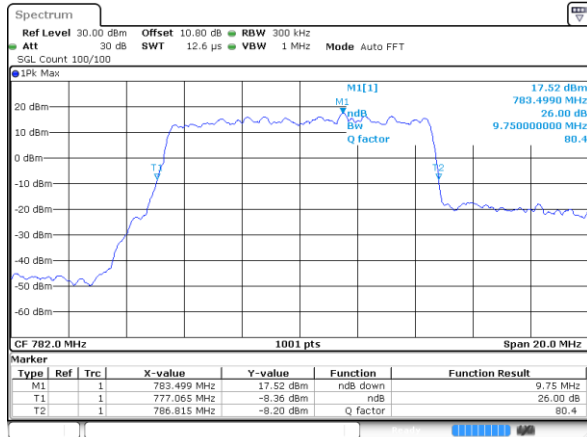
Highest Channel / 5MHz / 16QAM





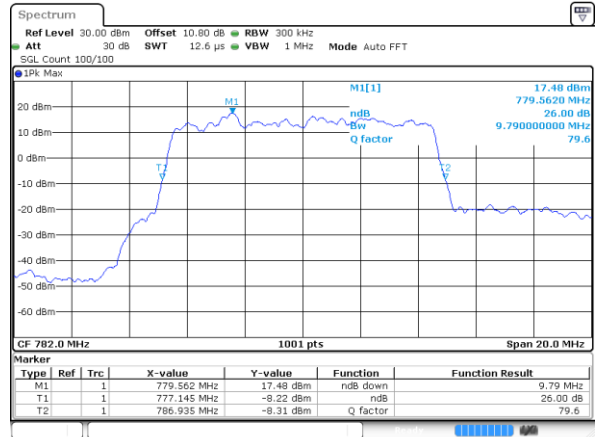
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 20 JAN 2020 11:29:59

Middle Channel / 10MHz / 16QAM



Date: 20 JAN 2020 11:29:48