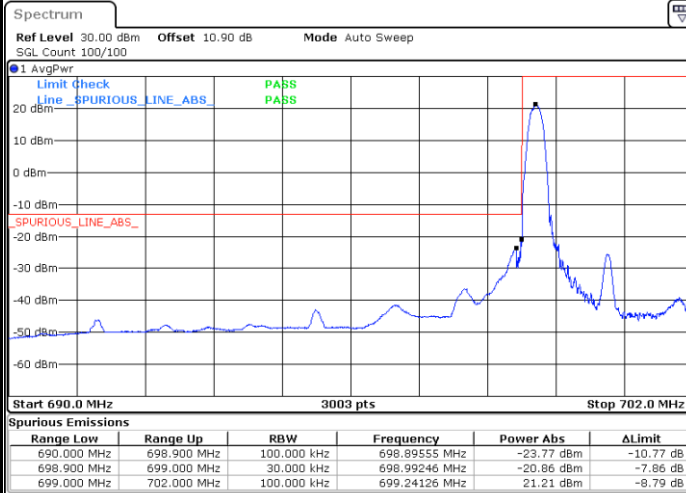


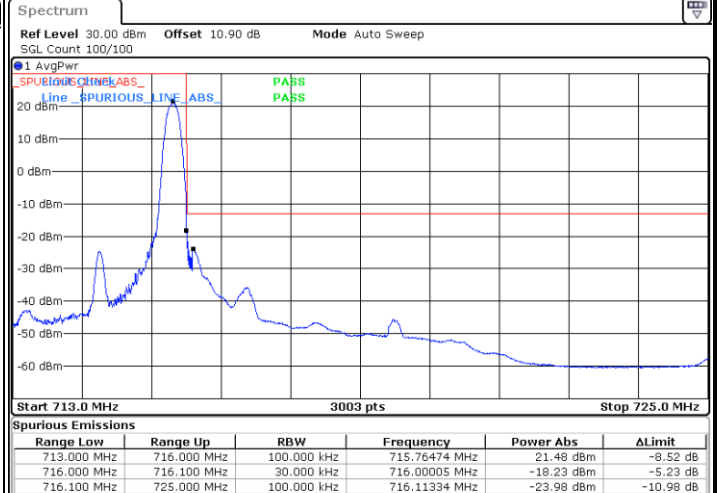


LTE Band 12 / 3MHz / QPSK

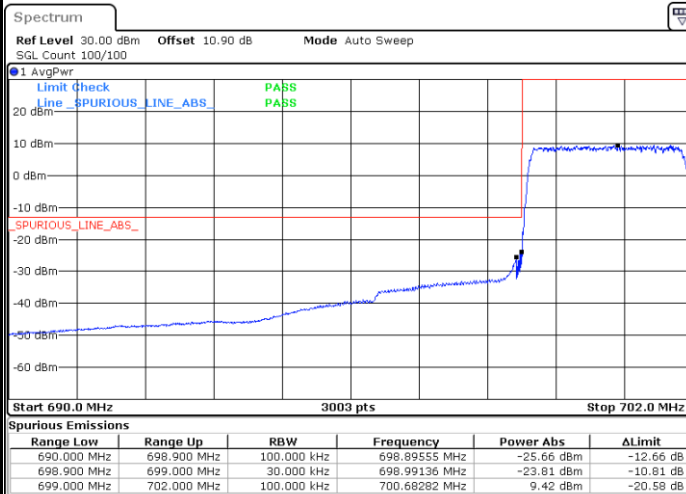
Lowest Band Edge / 1RB



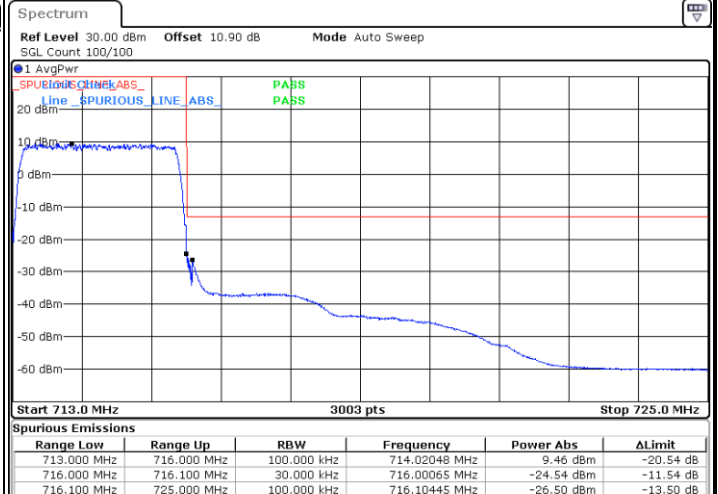
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



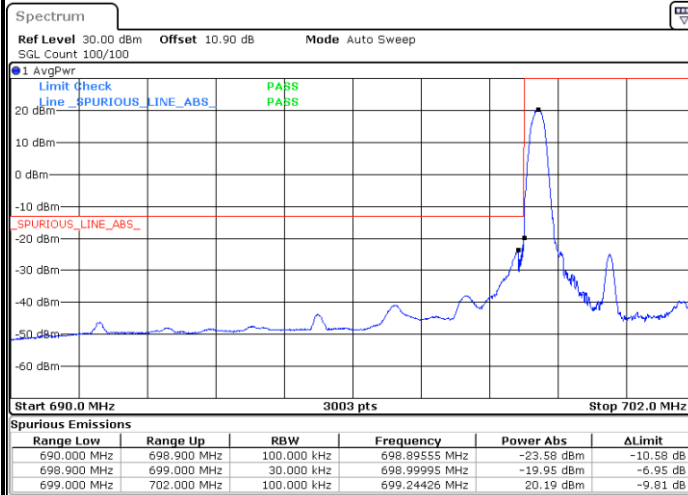
Highest Band Edge / Full RB



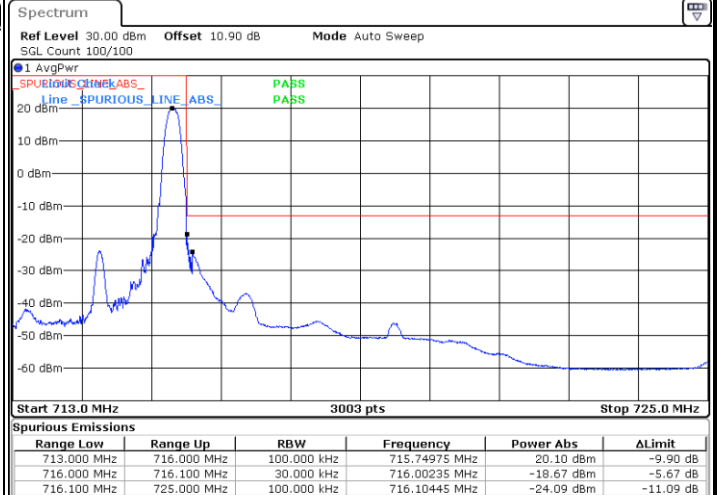


LTE Band 12 / 3MHz / 16QAM

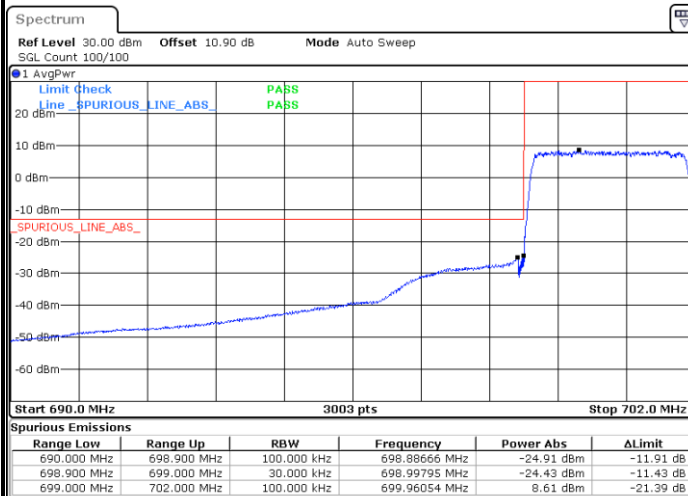
Lowest Band Edge / 1 RB



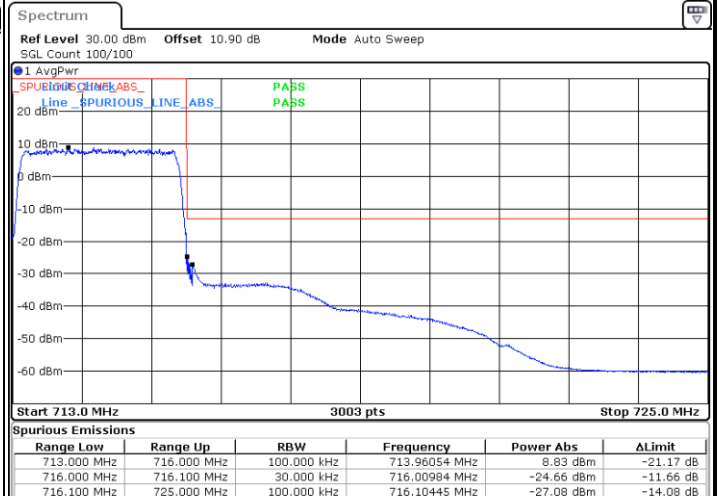
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



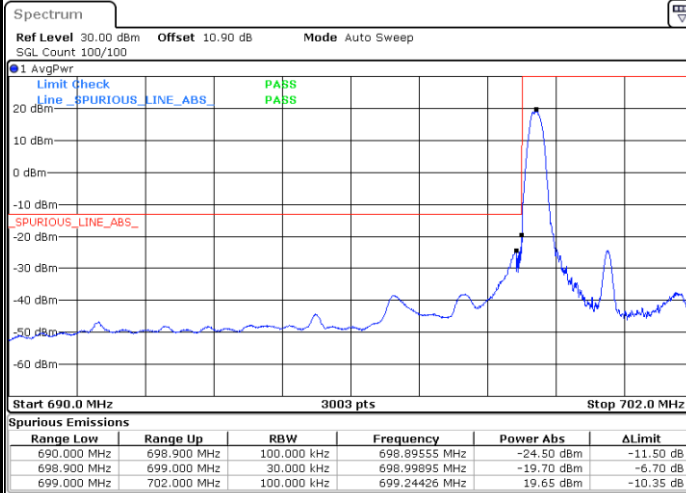
Highest Band Edge / Full RB



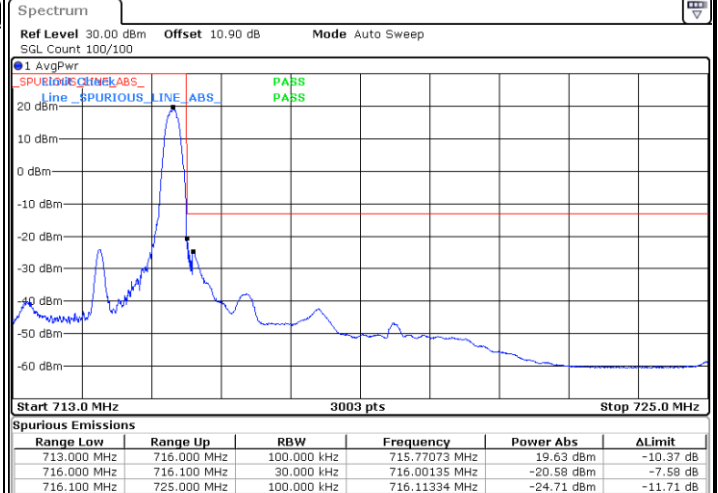


LTE Band 12 / 3MHz / 64QAM

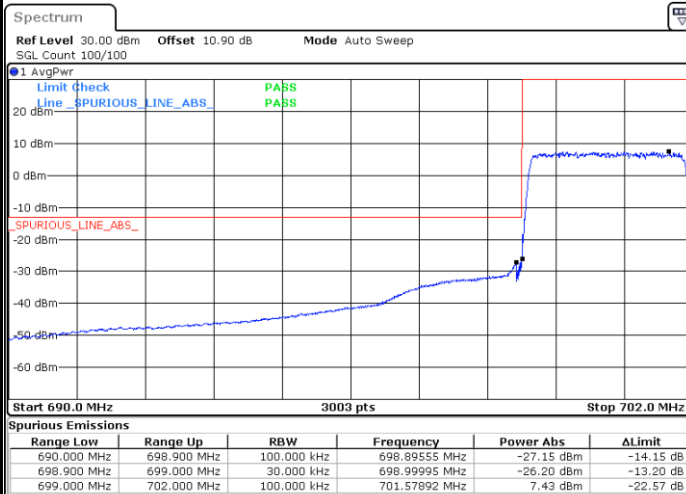
Lowest Band Edge / 1 RB



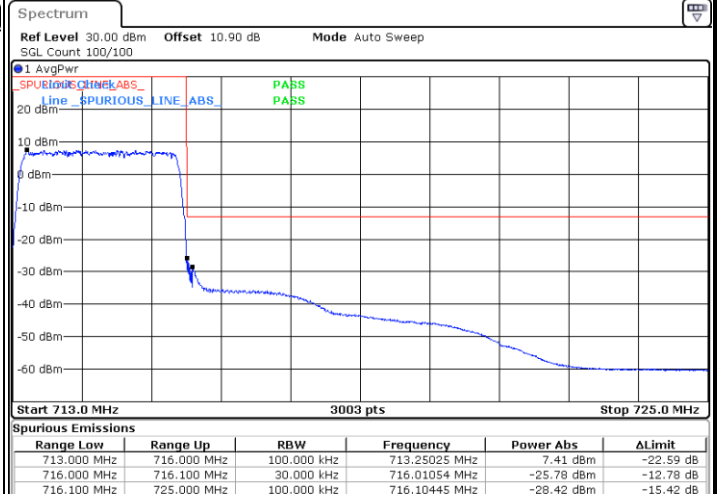
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



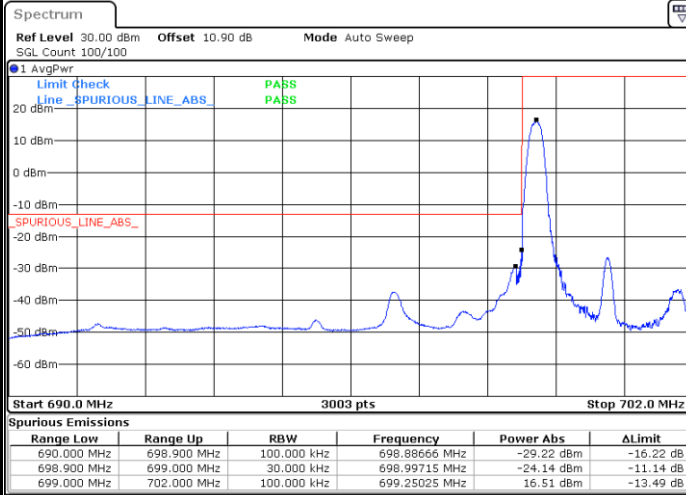
Highest Band Edge / Full RB



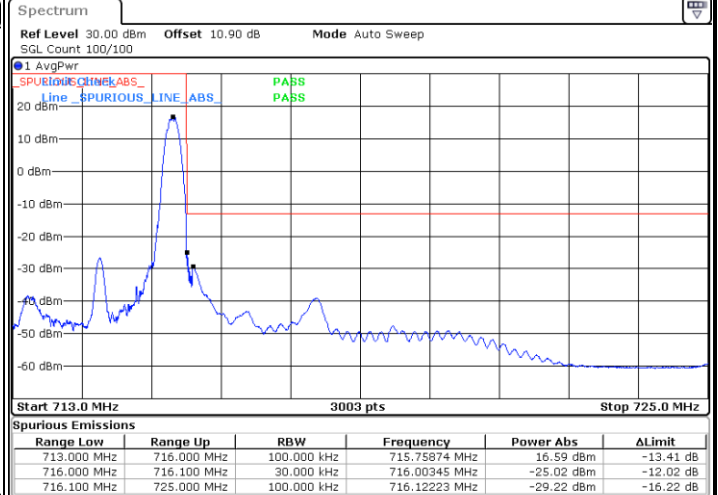


LTE Band 12 / 3MHz / 256QAM

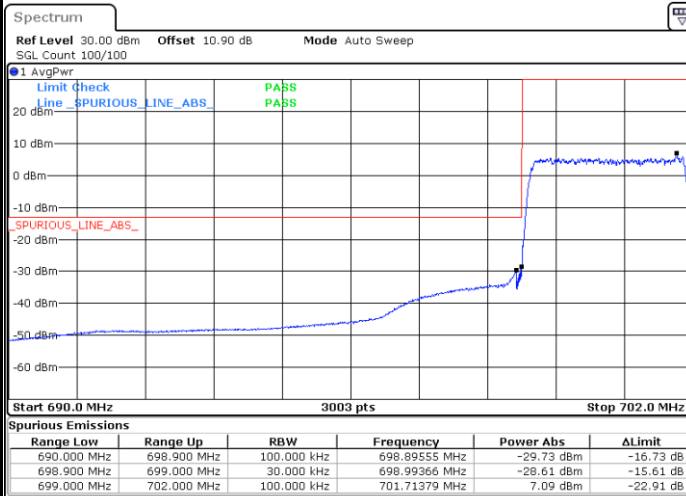
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



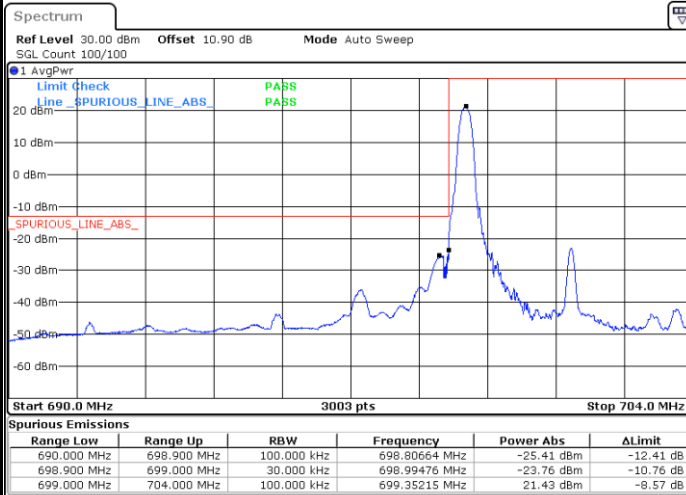
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / QPSK

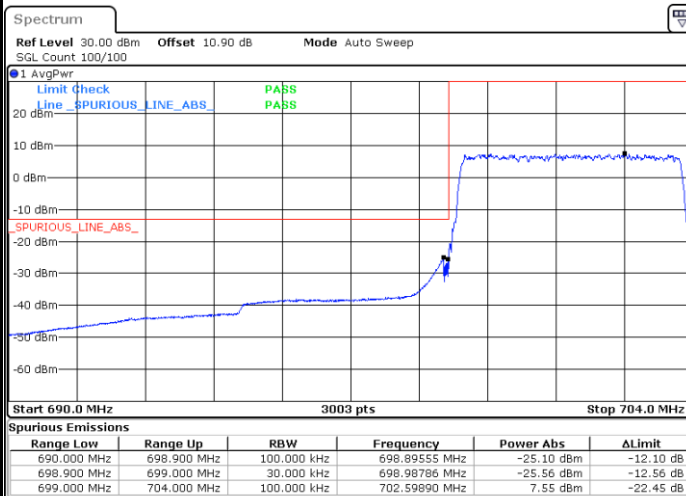
Lowest Band Edge / 1 RB



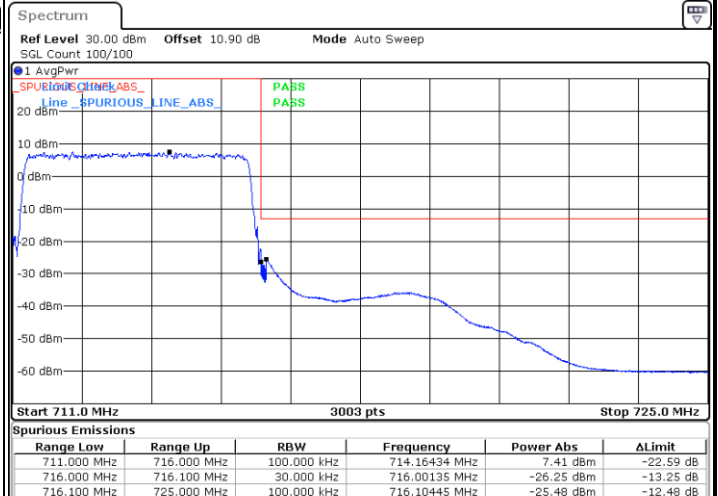
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



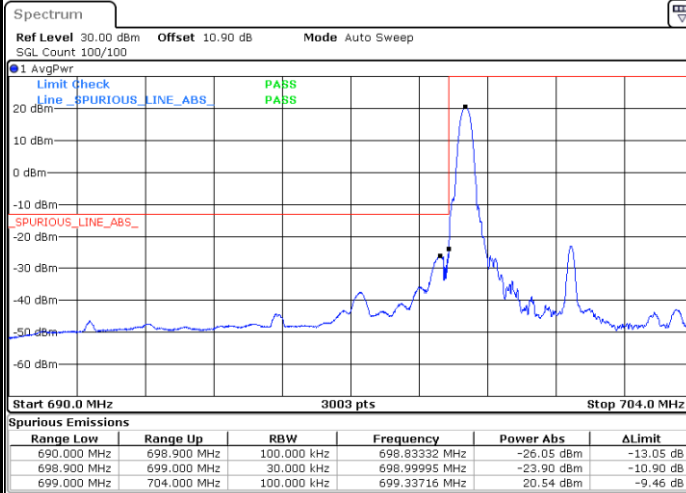
Highest Band Edge / Full RB



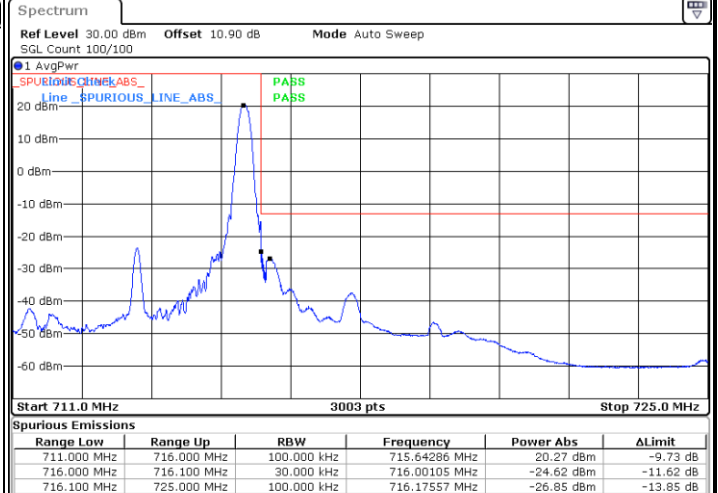


LTE Band 12 / 5MHz / 16QAM

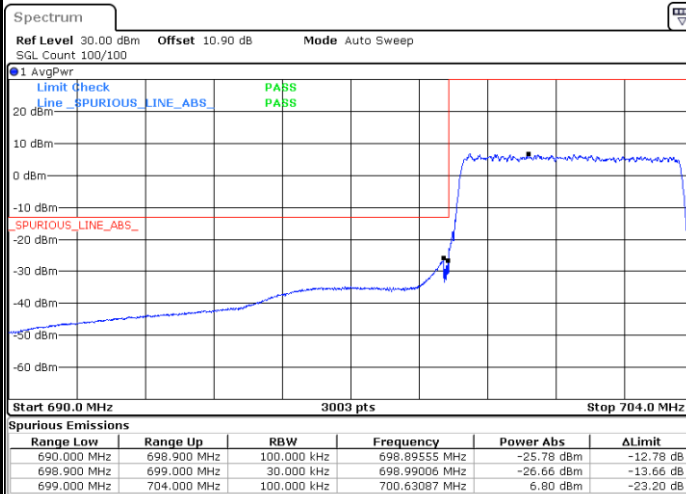
Lowest Band Edge / 1RB



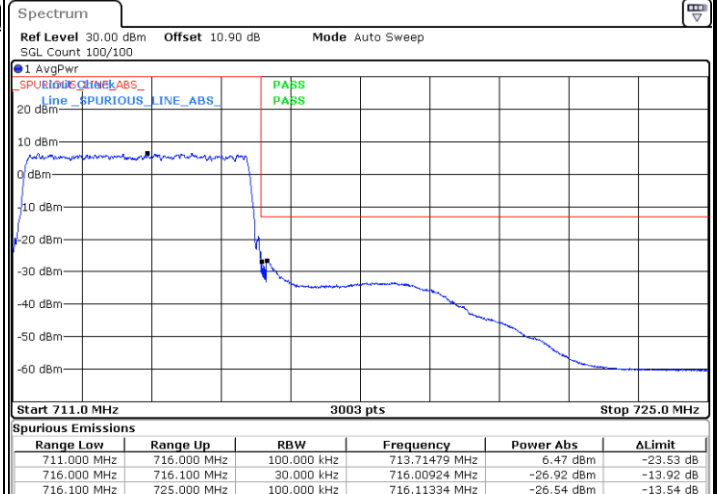
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



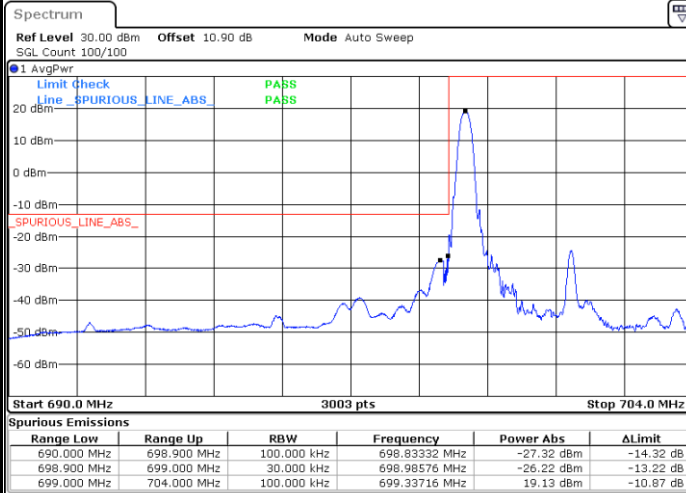
Highest Band Edge / Full RB



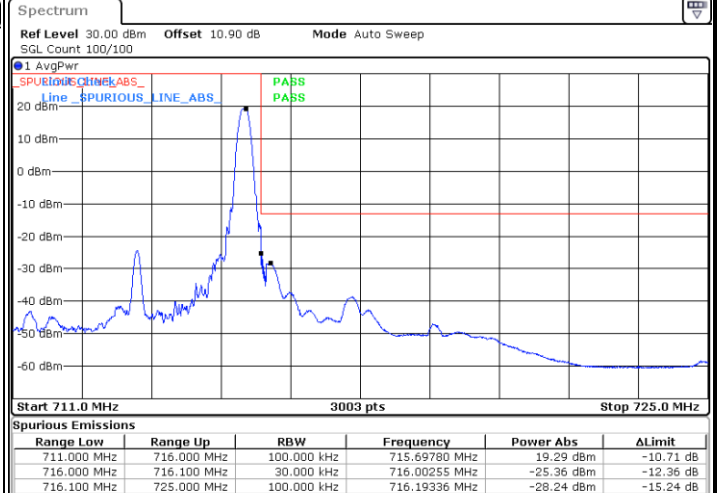


LTE Band 12 / 5MHz / 64QAM

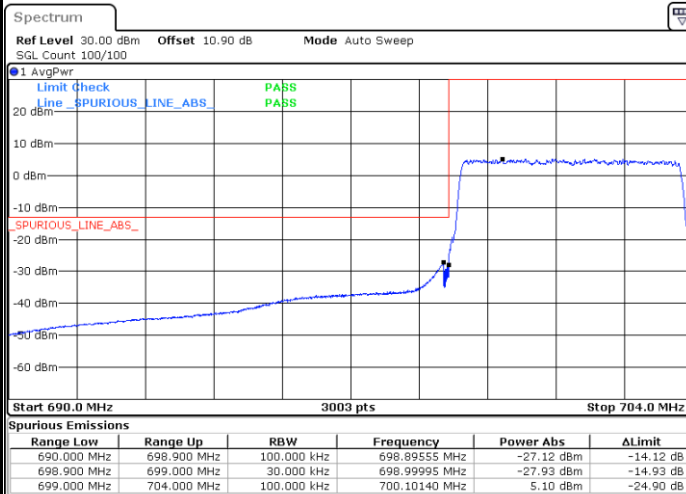
Lowest Band Edge / 1RB



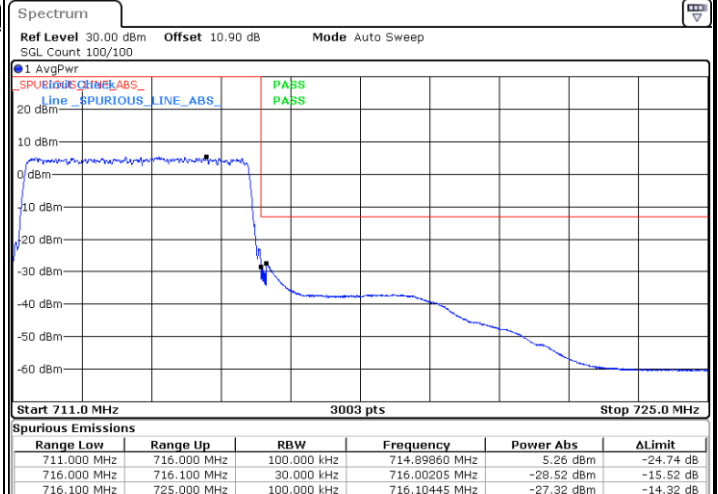
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



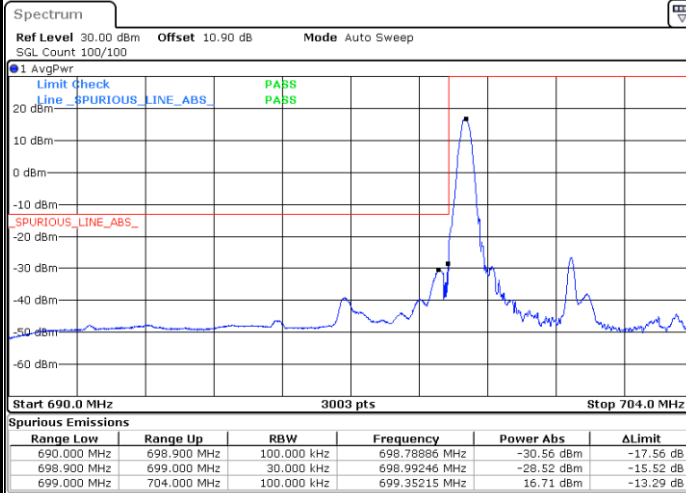
Highest Band Edge / Full RB



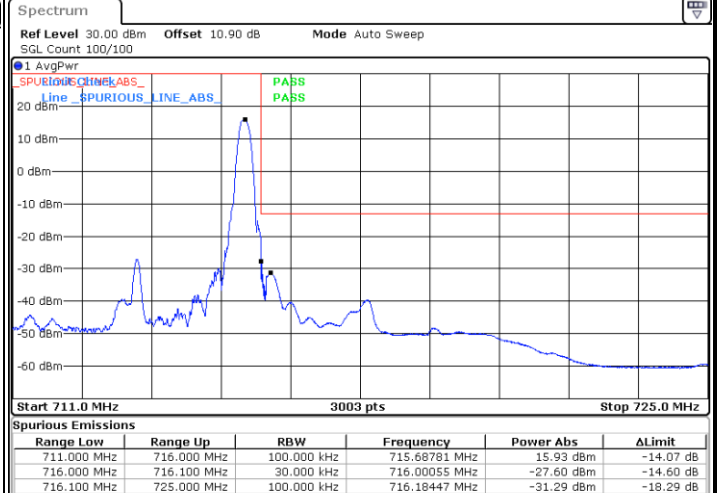


LTE Band 12 / 5MHz / 256QAM

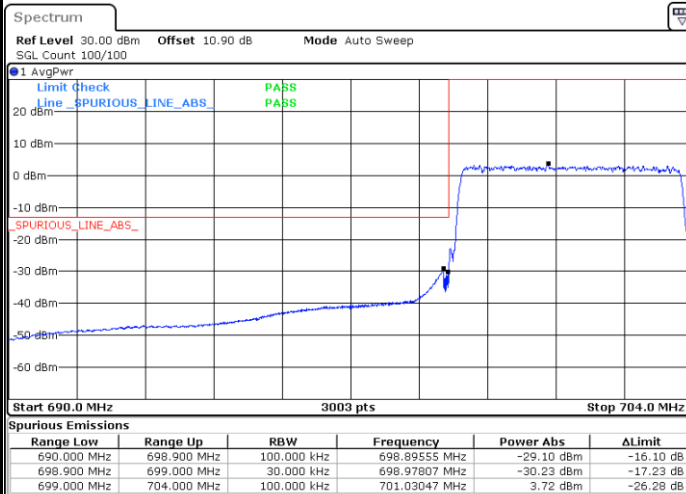
Lowest Band Edge / 1RB



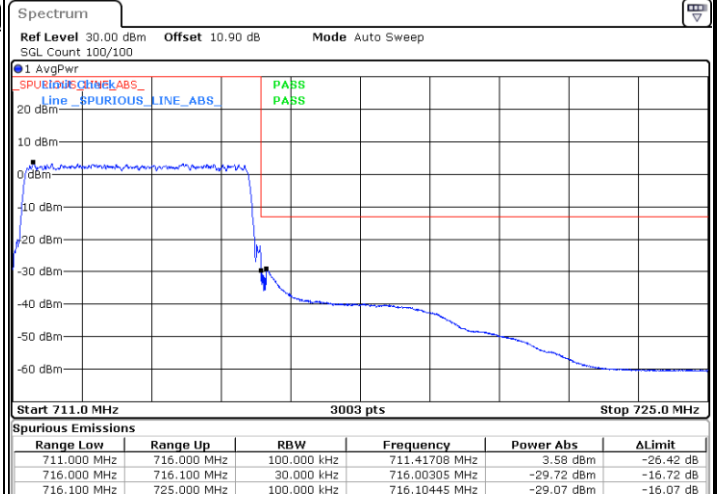
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



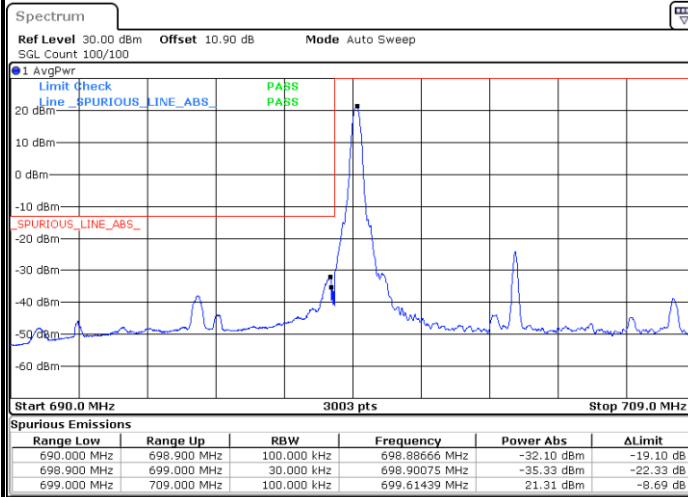
Highest Band Edge / Full RB



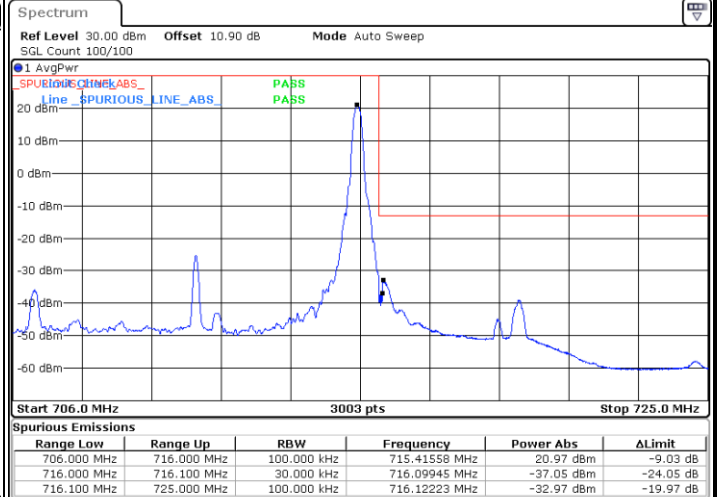


LTE Band 12 / 10MHz / QPSK

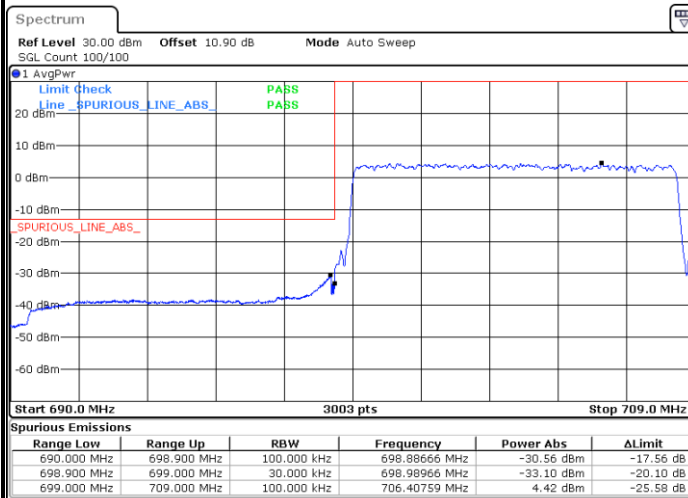
Lowest Band Edge / 1 RB



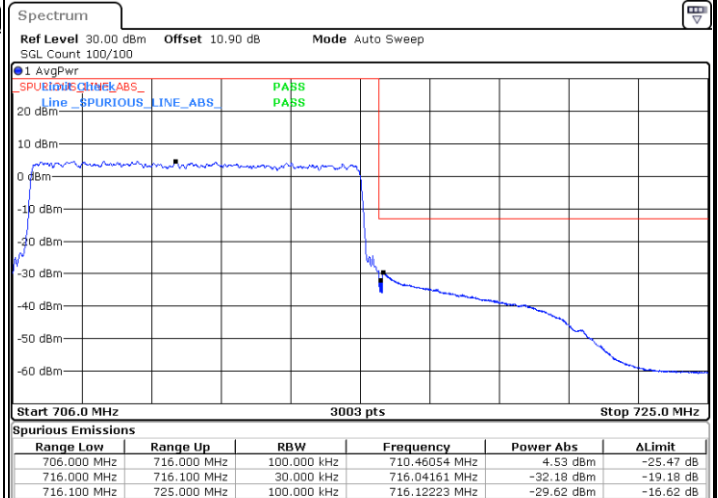
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



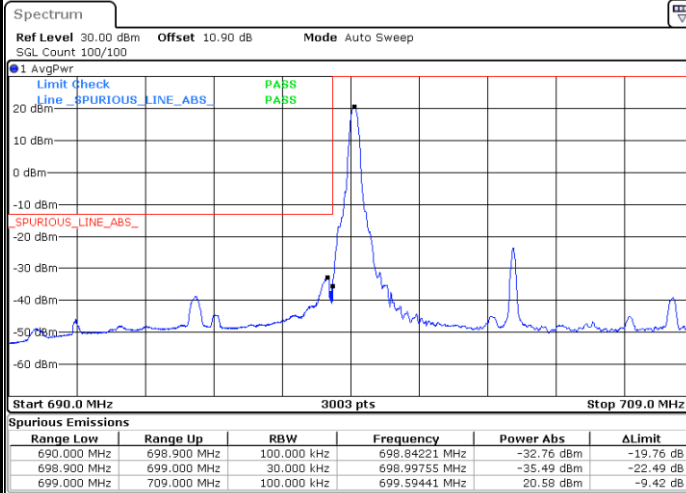
Highest Band Edge / Full RB



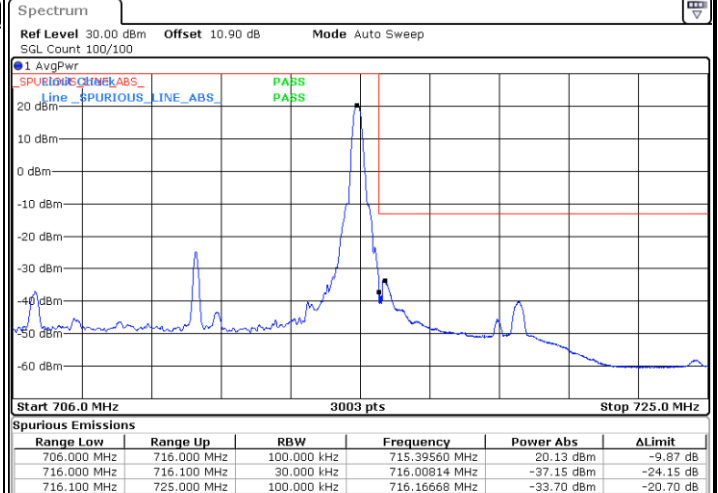


LTE Band 12 / 10MHz / 16QAM

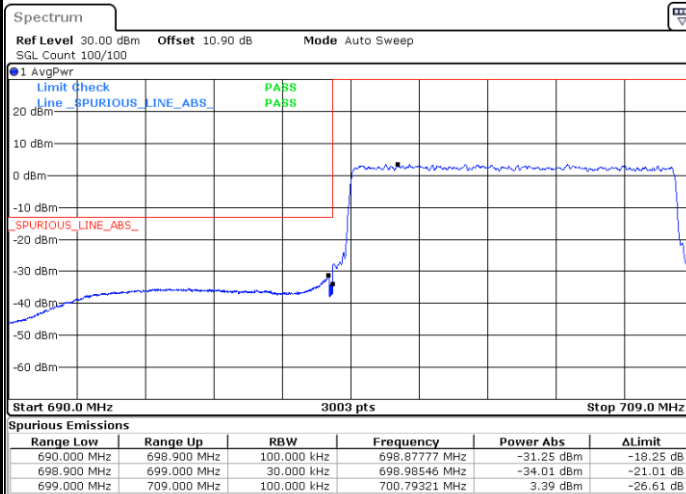
Lowest Band Edge / 1 RB



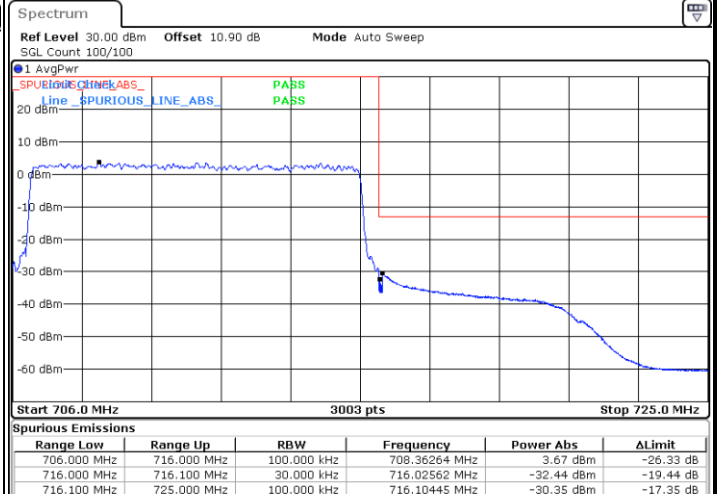
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



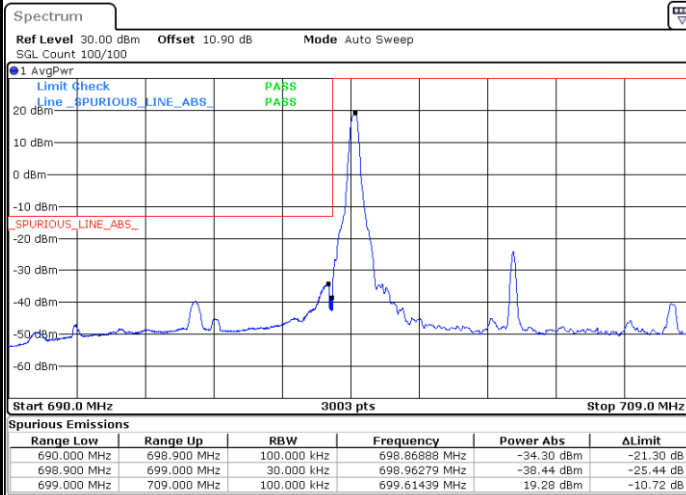
Highest Band Edge / Full RB



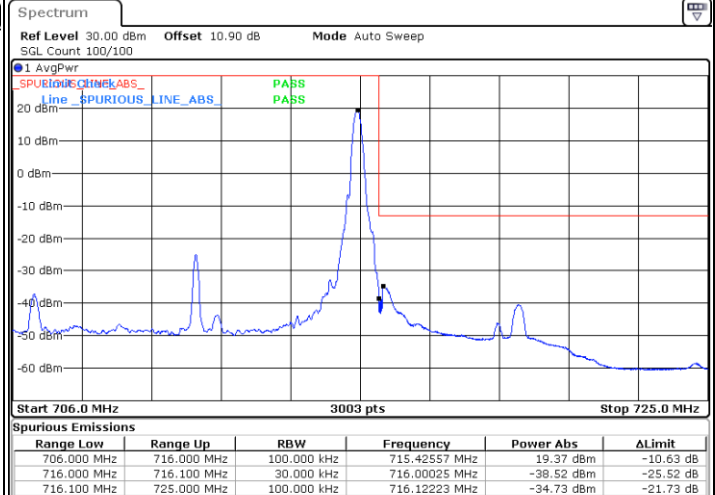


LTE Band 12 / 10MHz / 64QAM

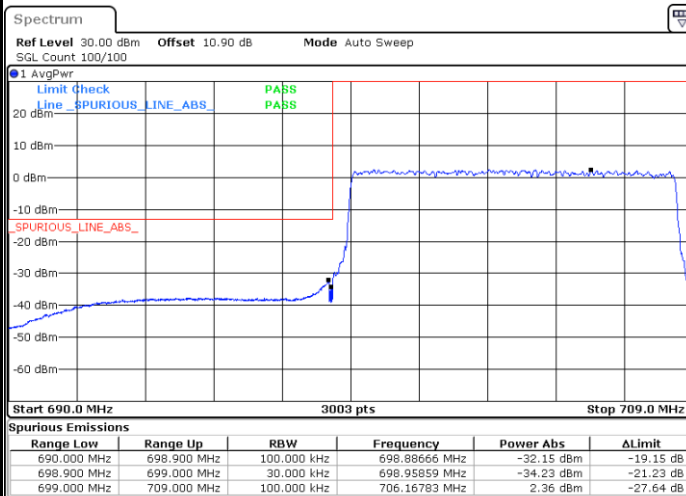
Lowest Band Edge / 1 RB



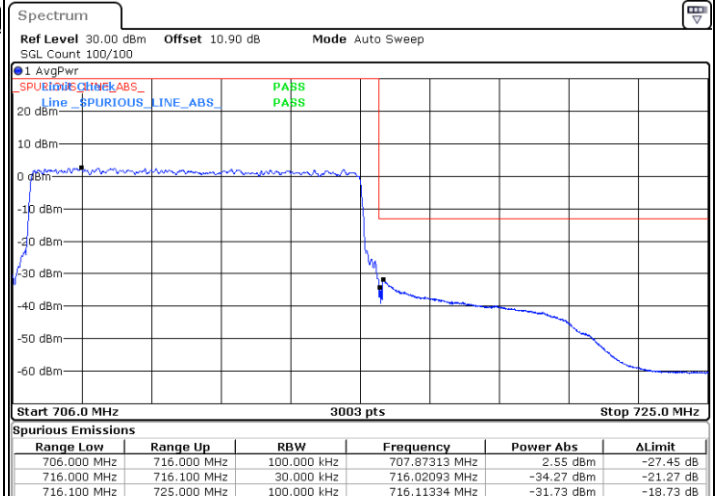
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



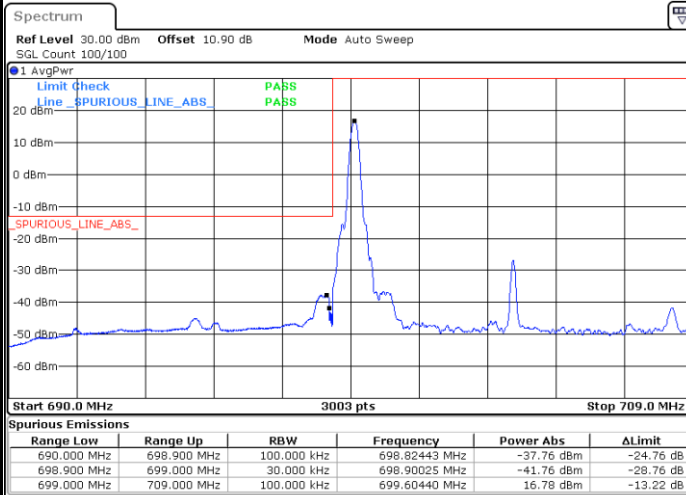
Highest Band Edge / Full RB



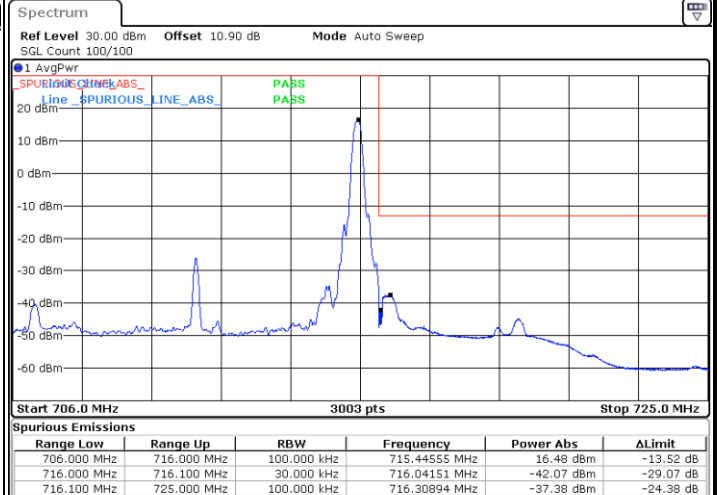


LTE Band 12 / 10MHz / 256QAM

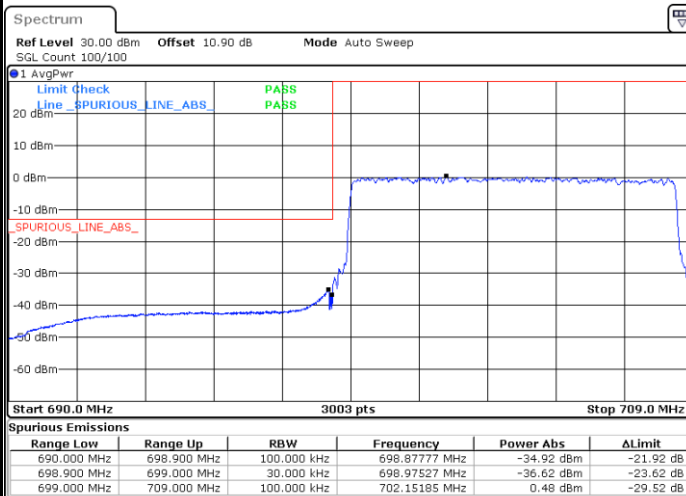
Lowest Band Edge / 1 RB



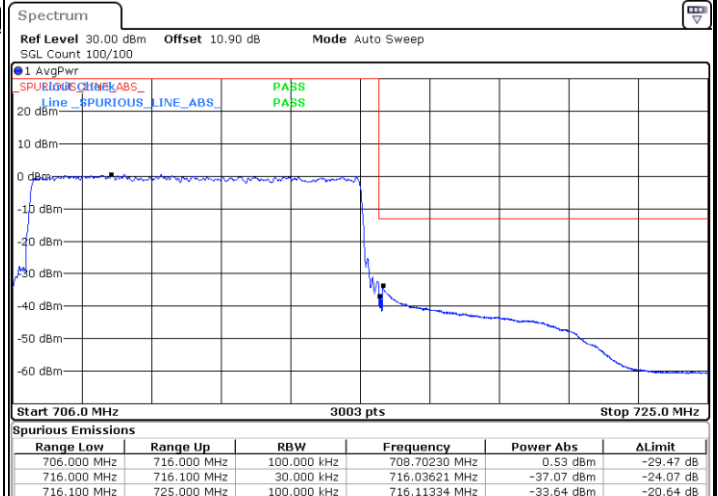
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

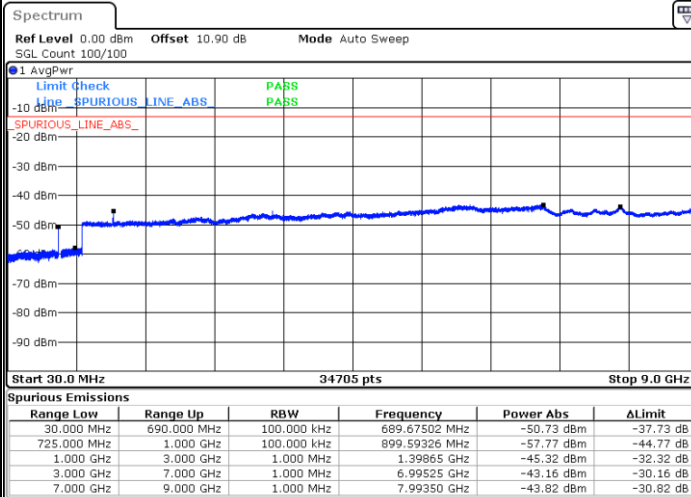




Conducted Spurious Emission

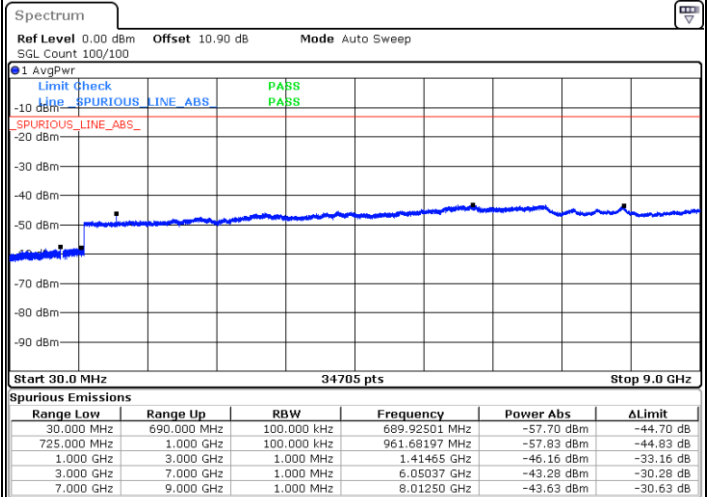
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



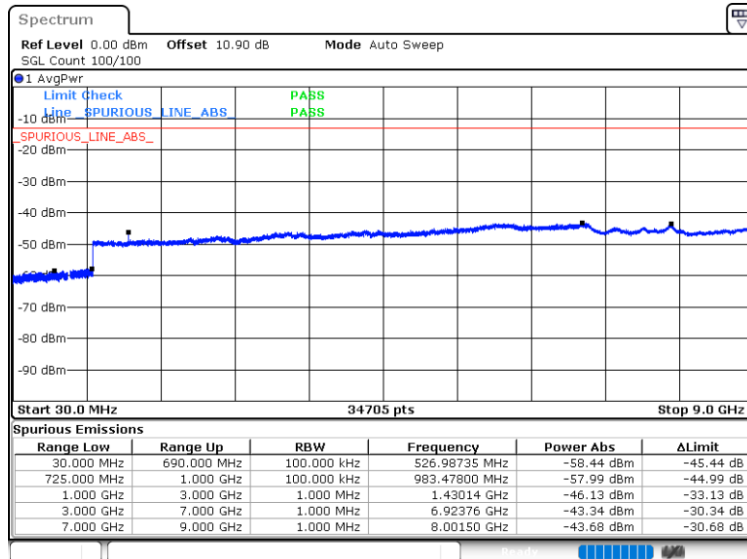
Date: 6.JUN.2021 13:29:01

Middle Channel / QPSK



Date: 6.JUN.2021 13:31:03

Highest Channel / QPSK

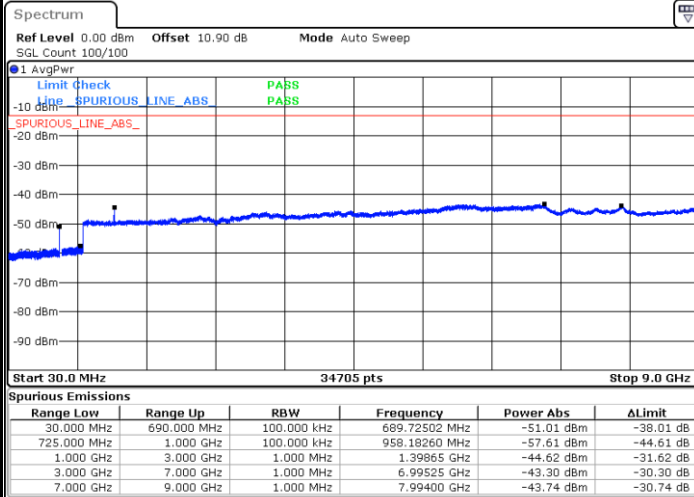


Date: 6.JUN.2021 13:34:22



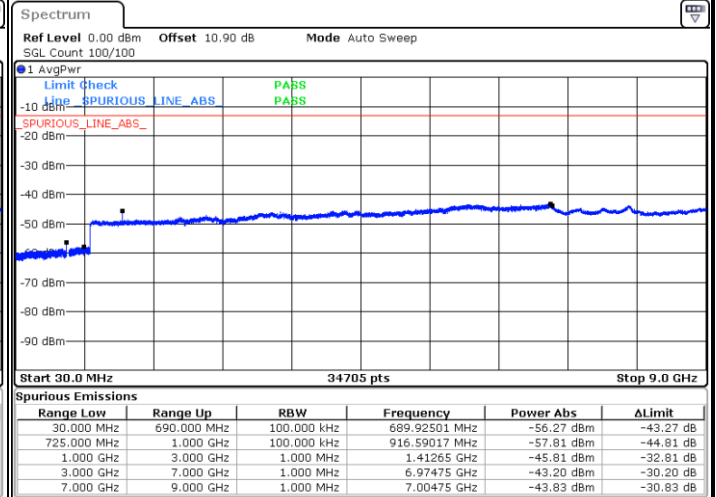
LTE Band 12 / 3MHz

Lowest Channel / QPSK



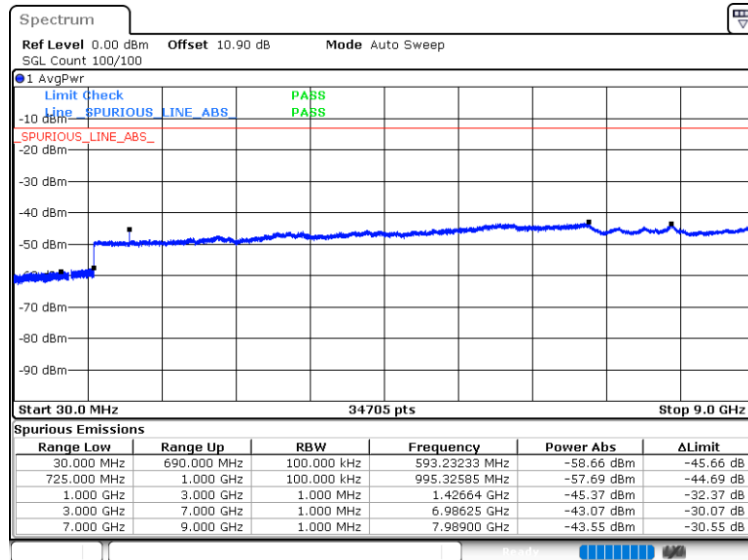
Date: 6.JUN.2021 13:42:08

Middle Channel / QPSK



Date: 6.JUN.2021 13:44:12

Highest Channel / QPSK

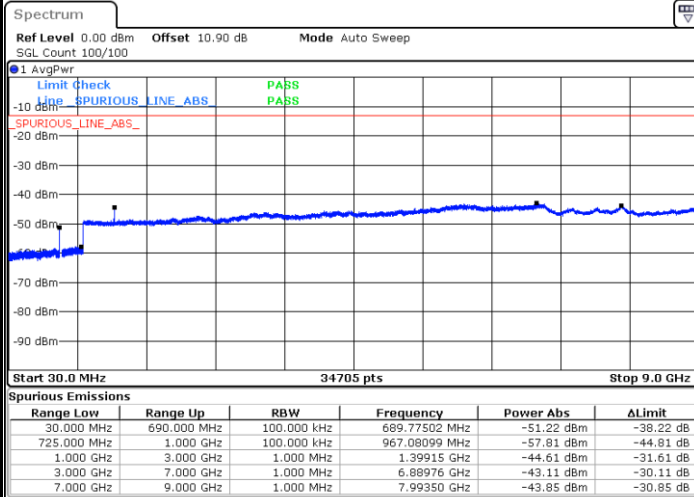


Date: 6.JUN.2021 13:47:34



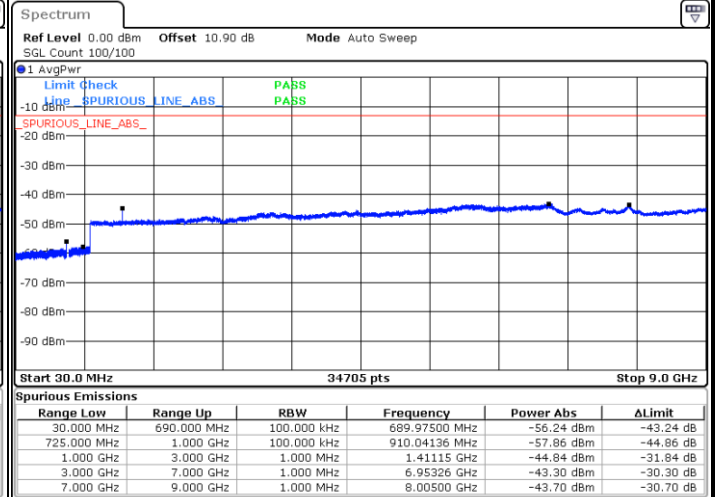
LTE Band 12 / 5MHz

Lowest Channel / QPSK



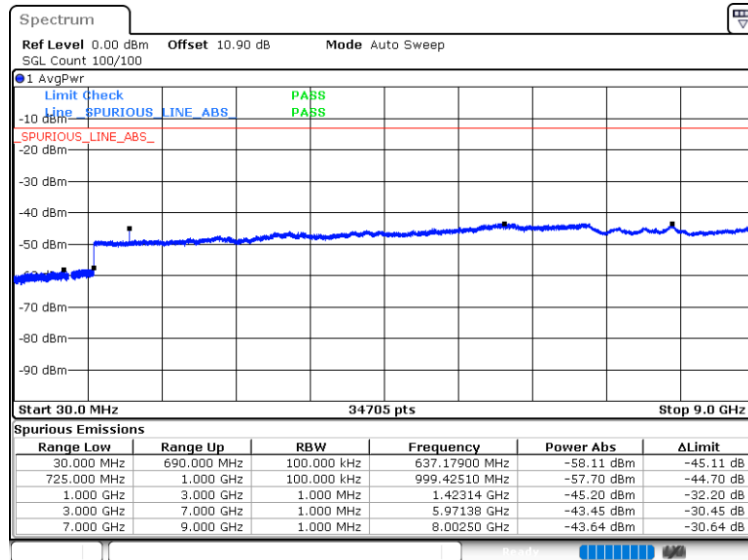
Date: 6.JUN.2021 13:58:40

Middle Channel / QPSK



Date: 6.JUN.2021 14:00:43

Highest Channel / QPSK

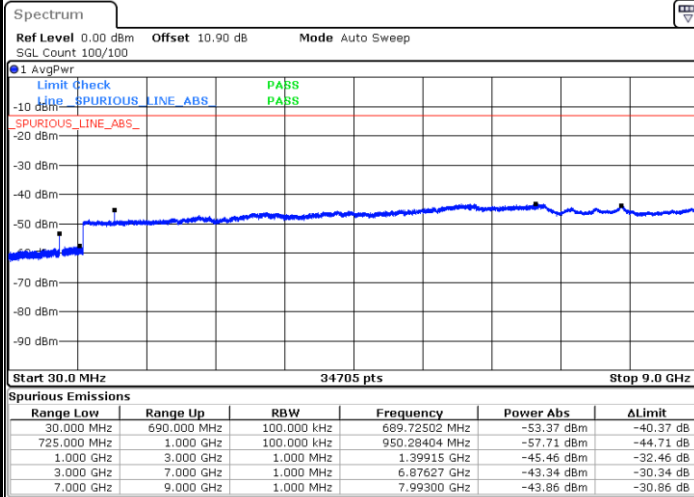


Date: 6.JUN.2021 14:04:05



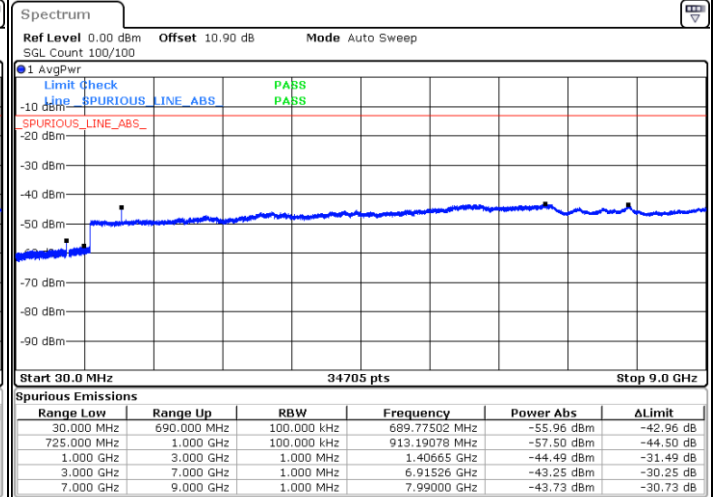
LTE Band 12 / 10MHz

Lowest Channel / QPSK



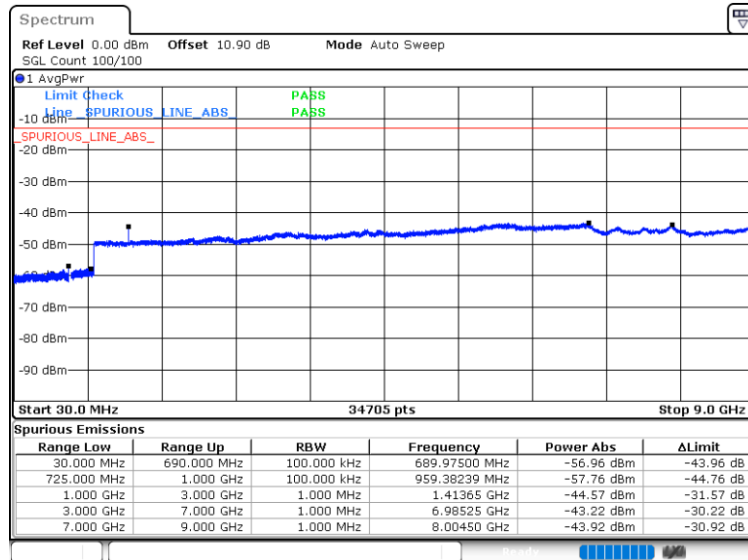
Date: 6.JUN.2021 14:17:50

Middle Channel / QPSK



Date: 6.JUN.2021 14:19:54

Highest Channel / QPSK



Date: 6.JUN.2021 14:23:18

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	0.0122	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0120	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0037	
0	Normal Voltage	0.0171	
-10	Normal Voltage	0.0171	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0134	
20	Maximum Voltage	0.0099	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0113	

Note:

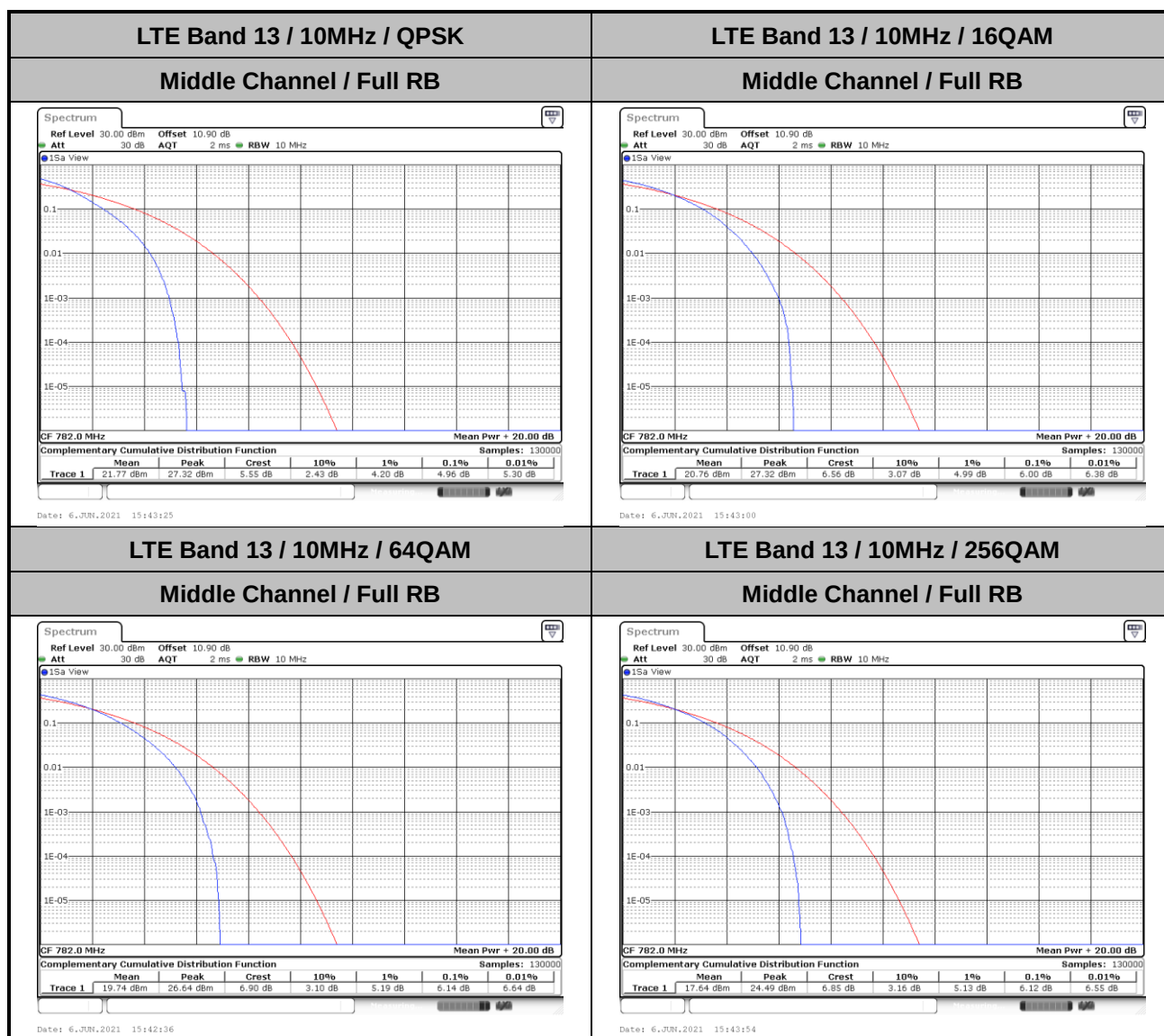
1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.96	6.00	6.14	6.12	PASS



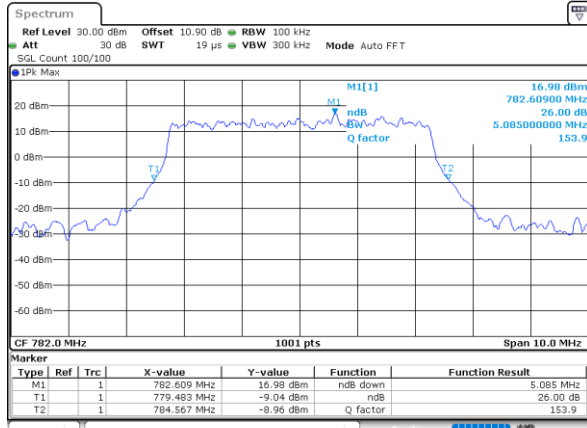
**26dB Bandwidth**

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
Middle CH	-	-	-	-	5.09	5.17	9.77	9.97	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	5.10	5.25	9.89	10.25	-	-	-	-



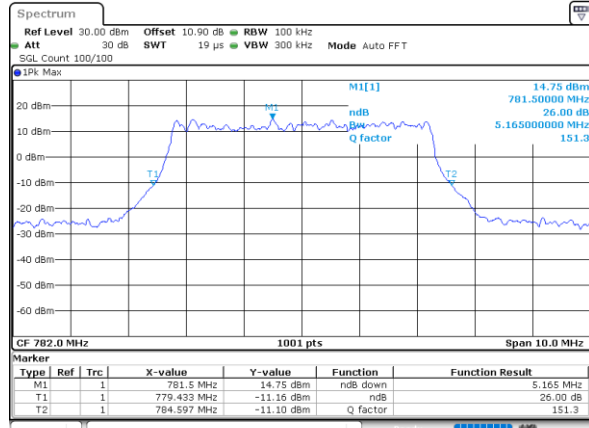
LTE Band 13

Middle Channel / 5MHz / QPSK



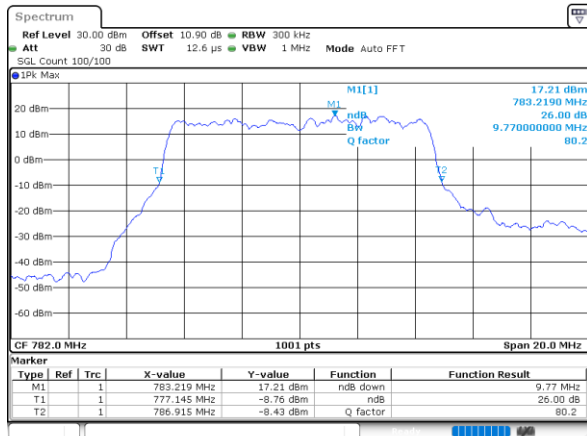
Date: 6 JUN 2021 15:01:53

Middle Channel / 5MHz / 16QAM



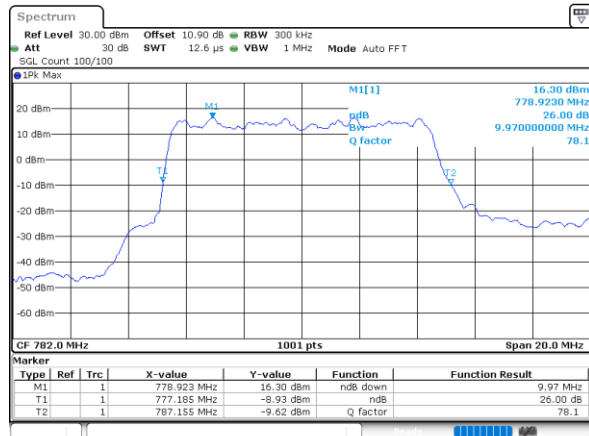
Date: 6 JUN 2021 15:02:14

Middle Channel / 10MHz / QPSK



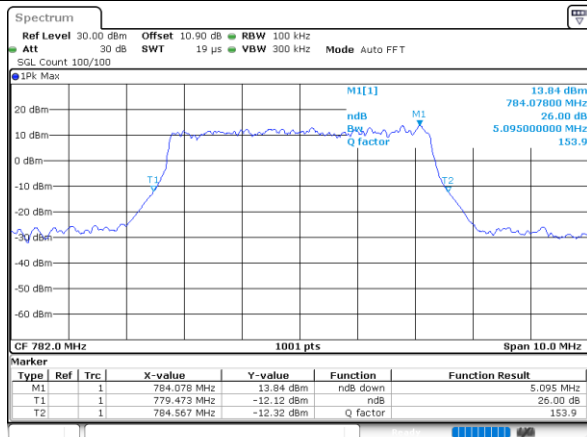
Date: 6 JUN 2021 15:24:16

Middle Channel / 10MHz / 16QAM



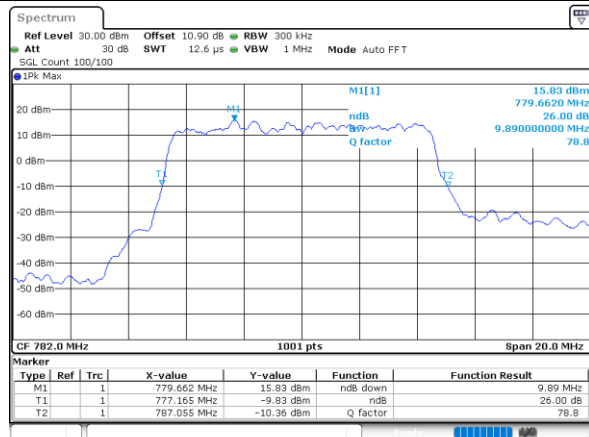
Date: 6 JUN 2021 15:23:55

Middle Channel / 5MHz / 64QAM



Date: 6 JUN 2021 15:15:05

Middle Channel / 10MHz / 64QAM

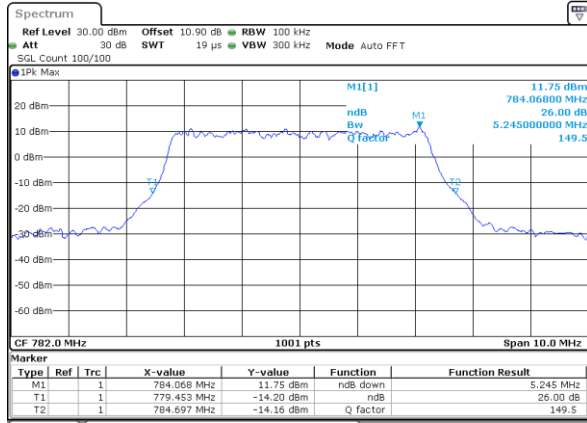


Date: 6 JUN 2021 15:36:41



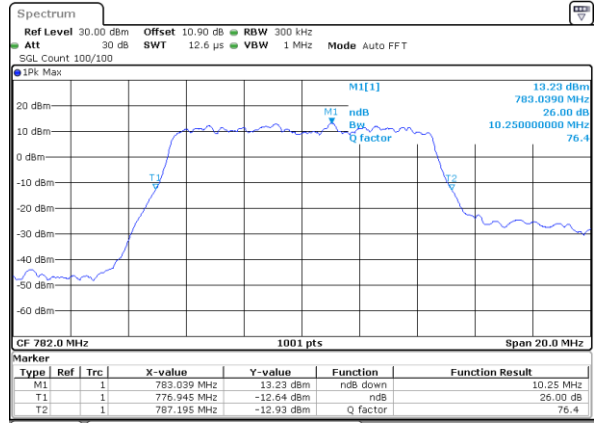
LTE Band 13

Middle Channel / 5MHz / 256QAM



Date: 6.JUN.2021 15:46:37

Middle Channel / 10MHz / 256QAM



Date: 6.JUN.2021 15:44:16

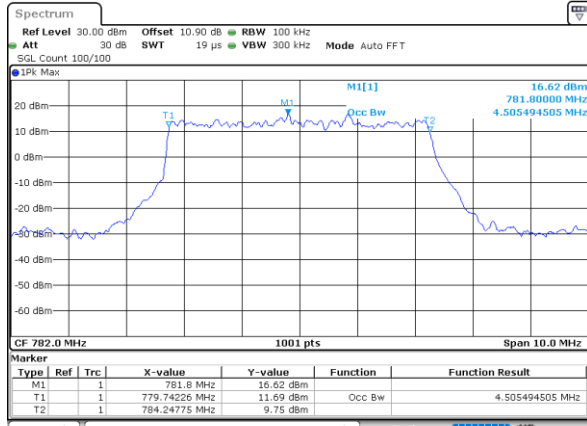
**Occupied Bandwidth**

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
Middle CH	-	-	-	-	4.51	4.51	9.01	8.99	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.48	4.53	9.03	9.03	-	-	-	-

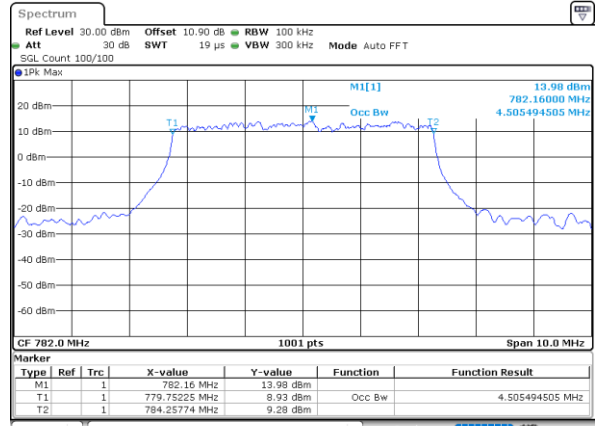


LTE Band 13

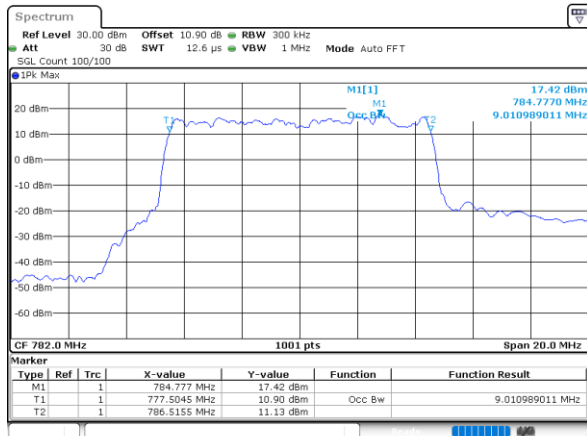
Middle Channel / 5MHz / QPSK



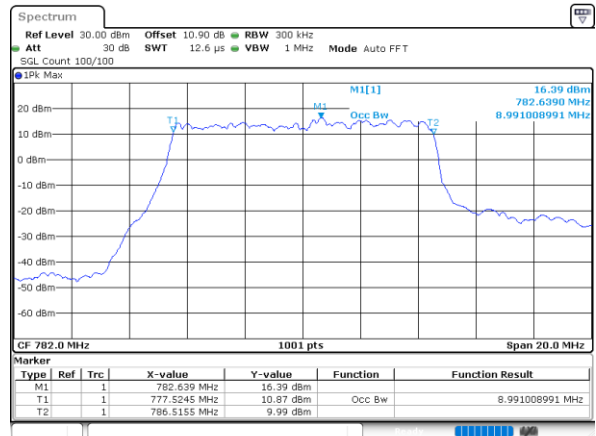
Middle Channel / 5MHz / 16QAM



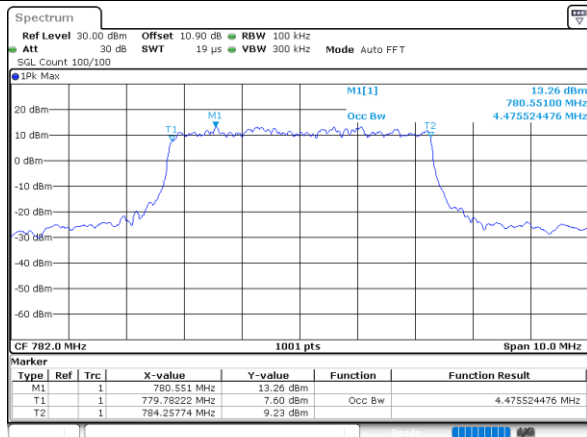
Middle Channel / 10MHz / QPSK



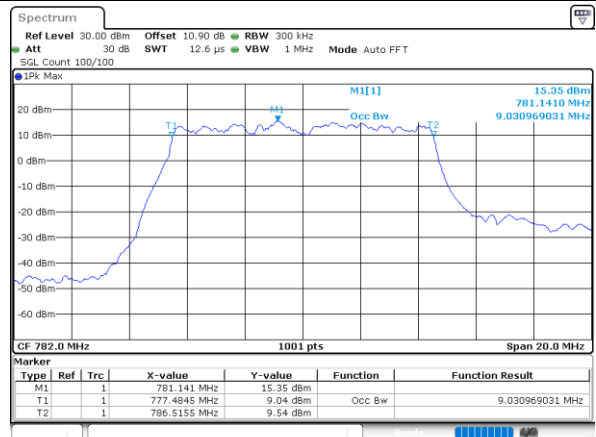
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



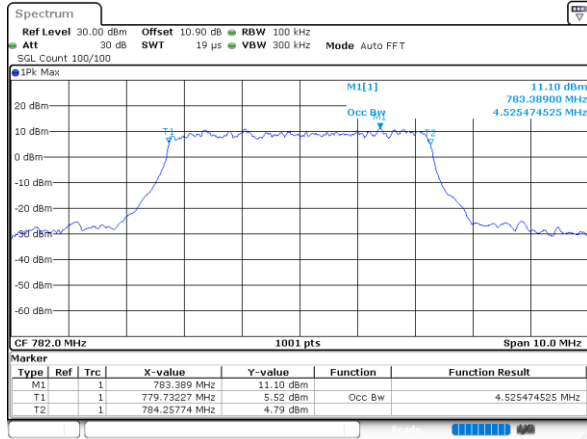
Middle Channel / 10MHz / 64QAM



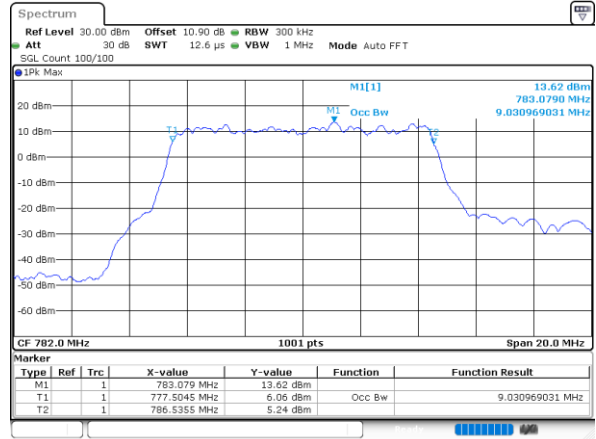


LTE Band 13

Middle Channel / 5MHz / 256QAM



Middle Channel / 10MHz / 256QAM

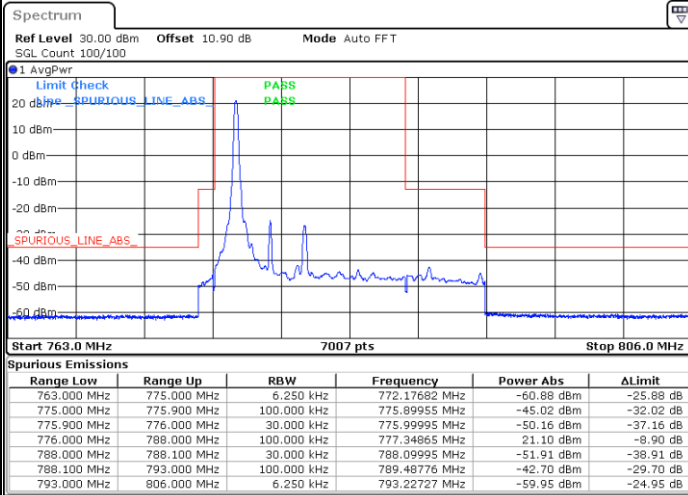




Conducted Band Edge

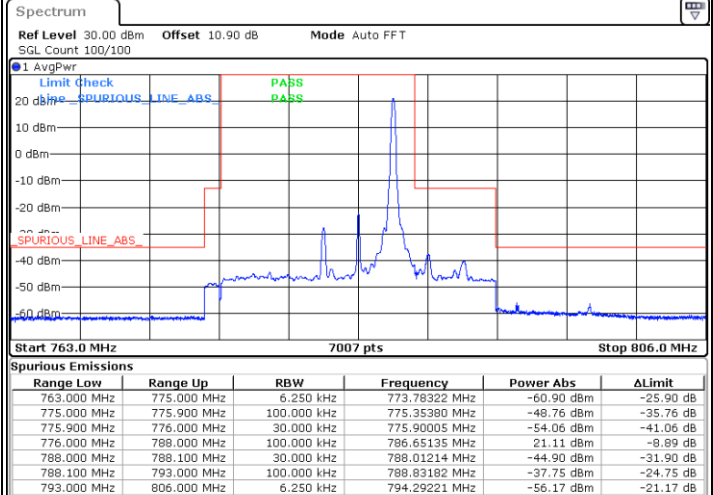
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



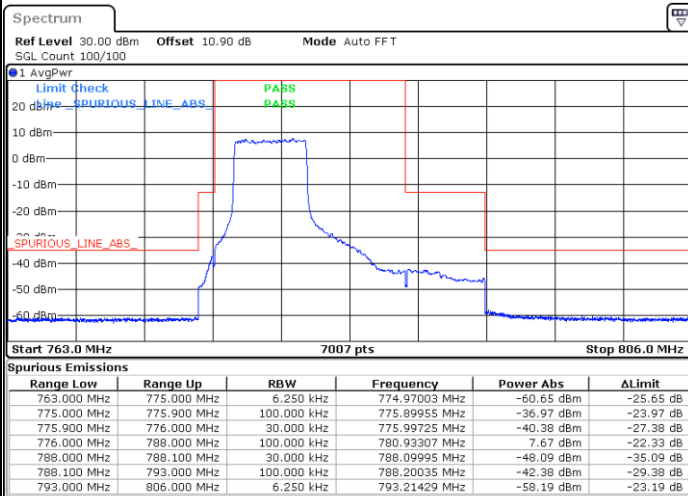
Date: 6 JUN. 2021 15:00:19

Highest Band Edge / 1 RB



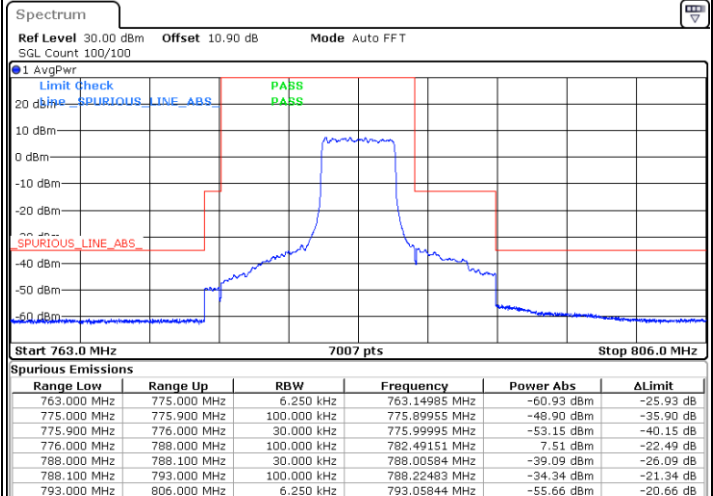
Date: 6 JUN. 2021 15:10:24

Lowest Band Edge / Full RB



Date: 6 JUN. 2021 14:54:45

Highest Band Edge / Full RB

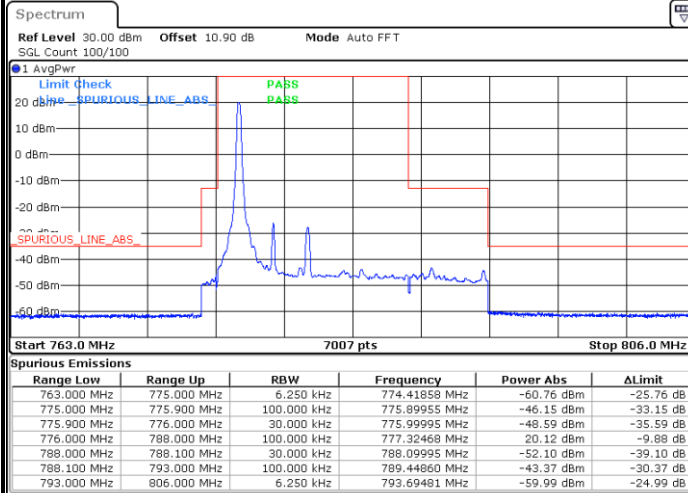


Date: 6 JUN. 2021 15:04:49



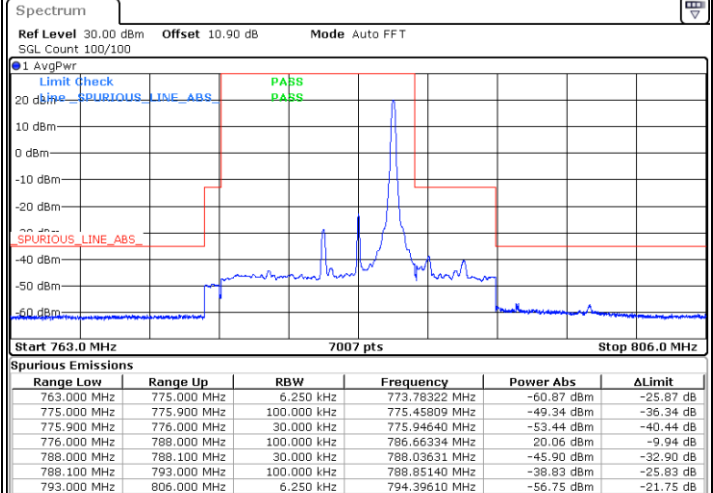
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



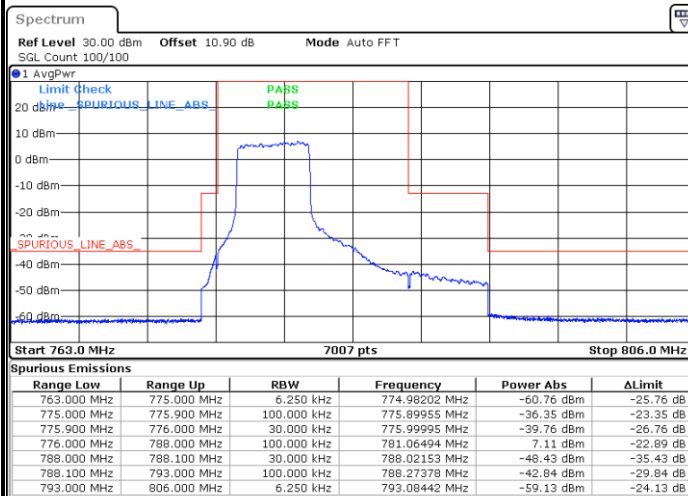
Date: 6 JUN. 2021 14:58:28

Highest Band Edge / 1 RB



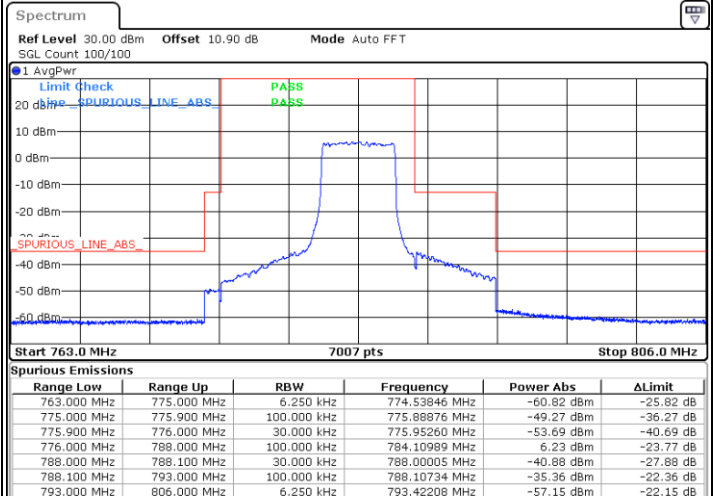
Date: 6 JUN. 2021 15:08:32

Lowest Band Edge / Full RB



Date: 6 JUN. 2021 14:56:36

Highest Band Edge / Full RB

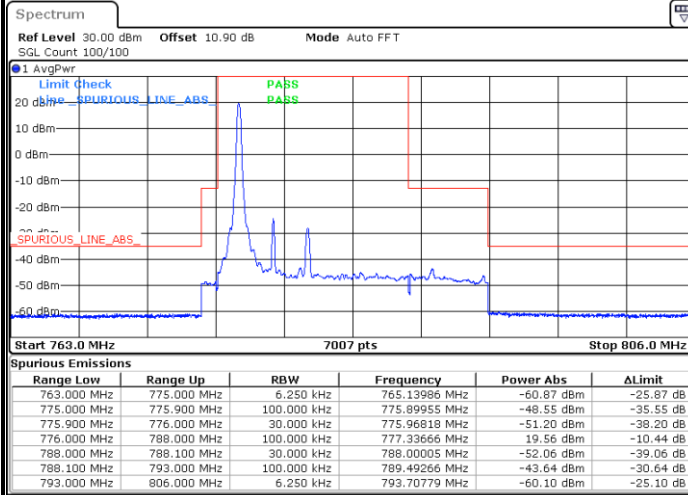


Date: 6 JUN. 2021 15:06:40

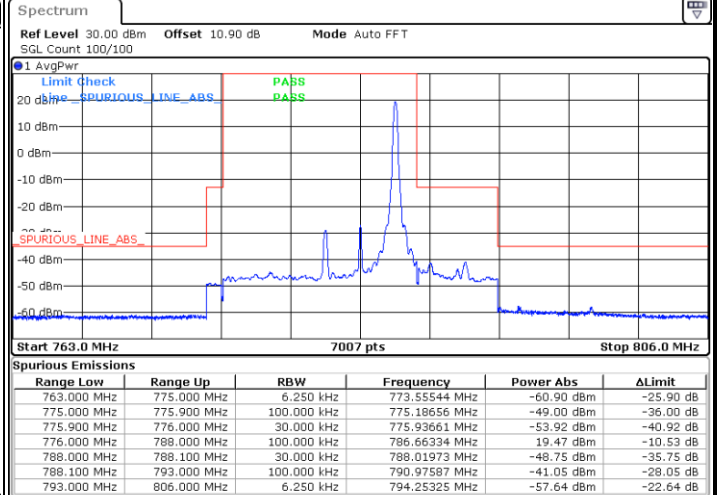


LTE Band 13 / 5MHz / 64QAM

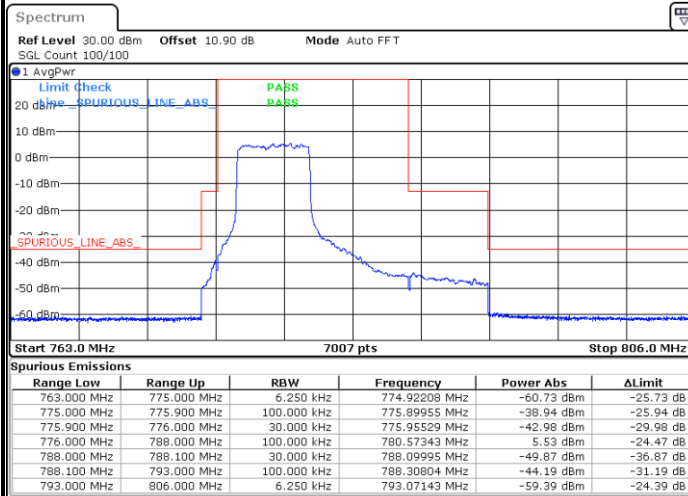
Lowest Band Edge / 1 RB



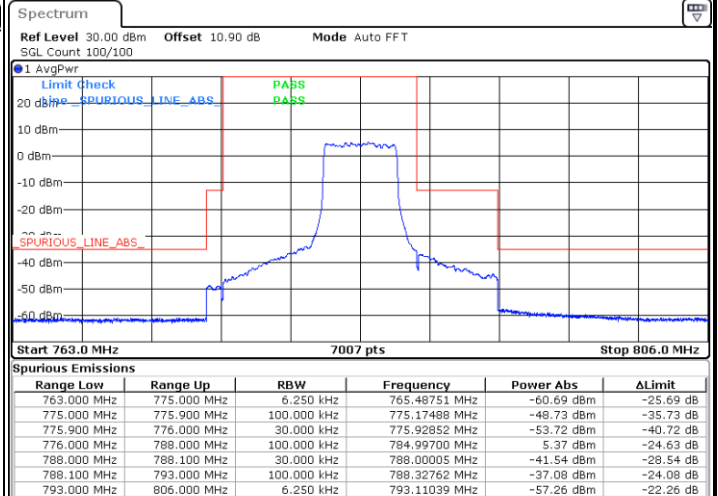
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



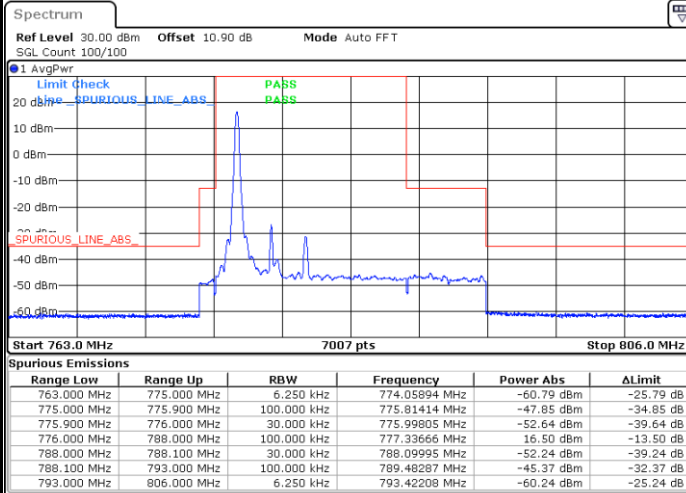
Highest Band Edge / Full RB



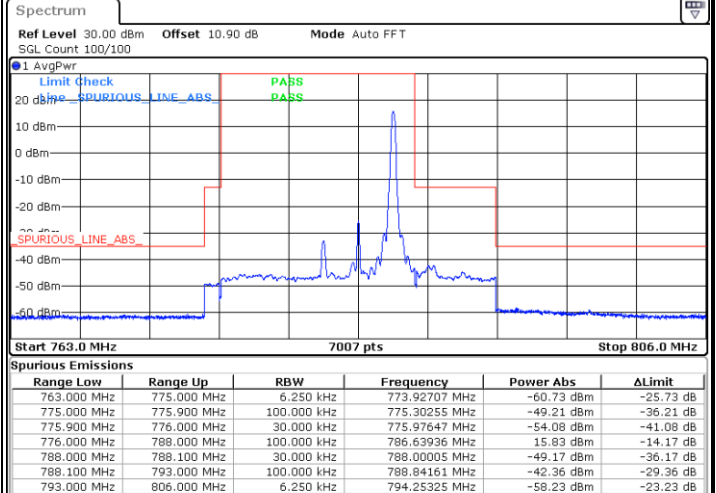


LTE Band 13 / 5MHz / 256QAM

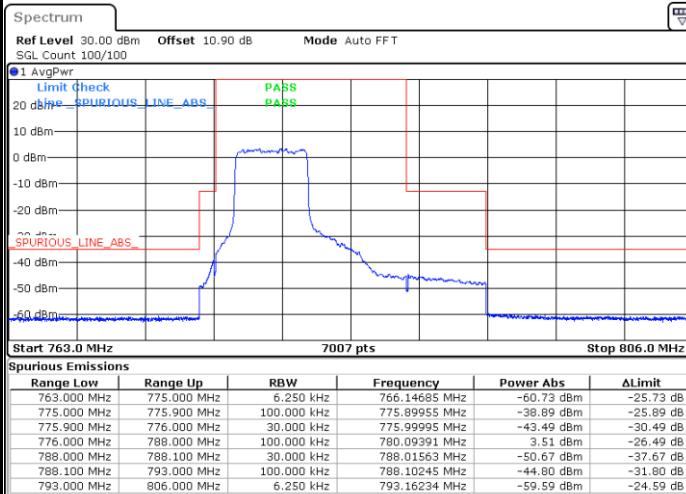
Lowest Band Edge / 1 RB



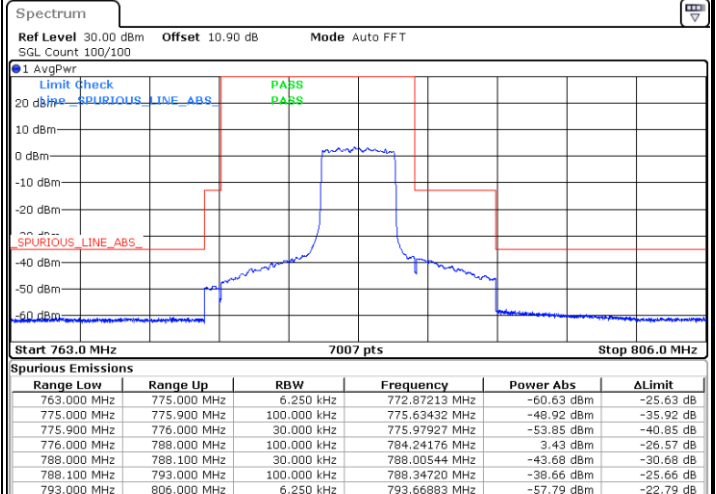
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



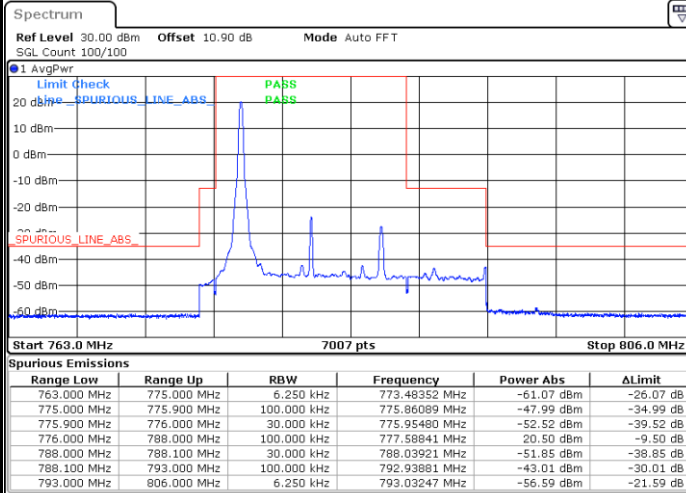
Highest Band Edge / Full RB



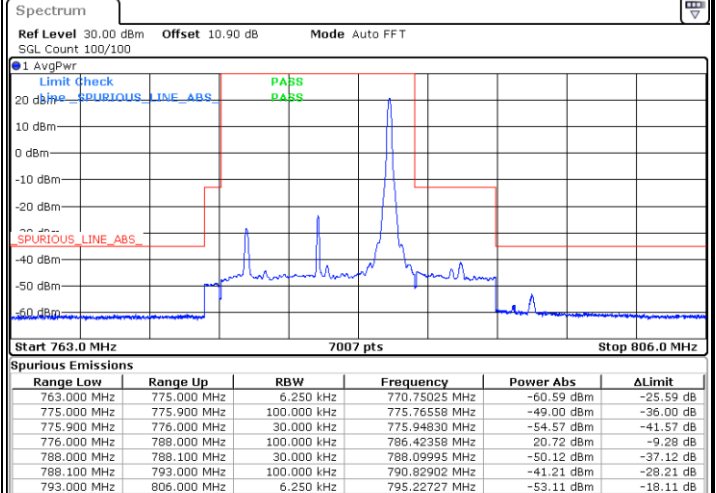


LTE Band 13 / 10MHz / QPSK

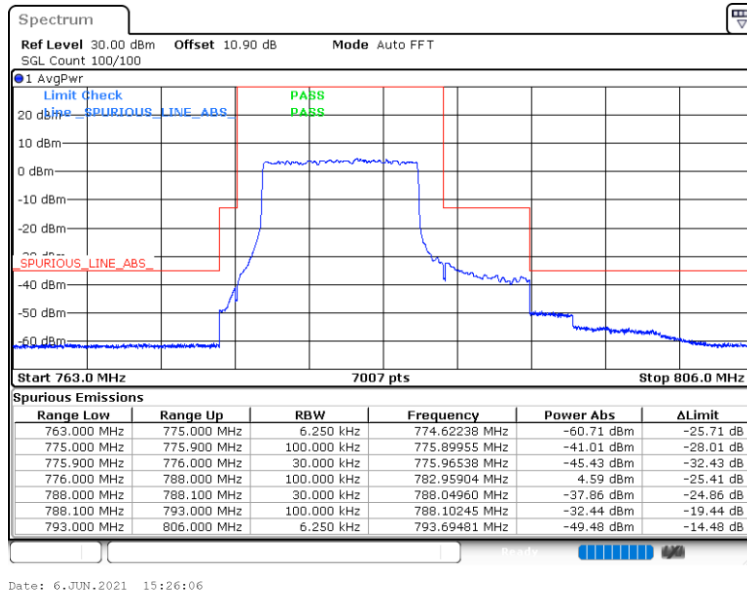
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



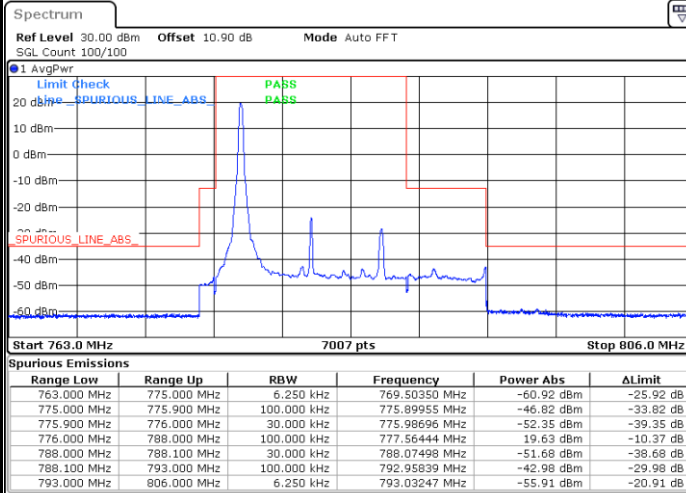
Band Edge / Full RB





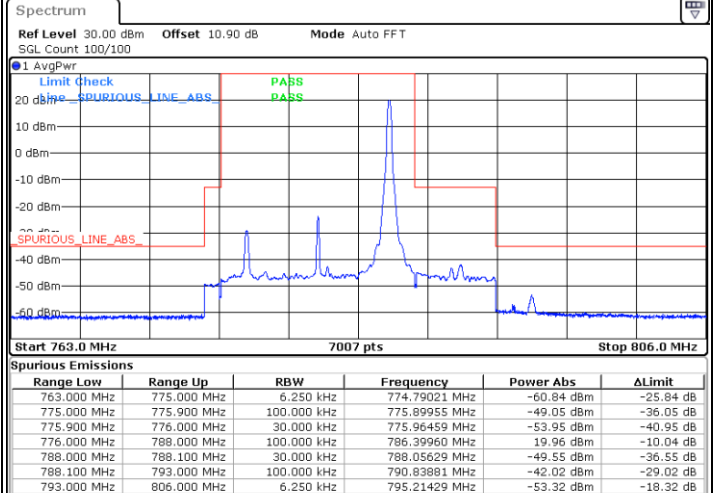
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



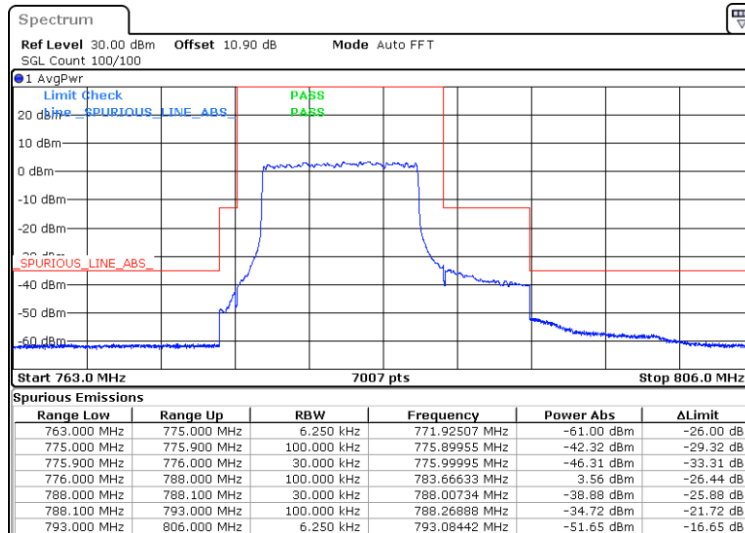
Date: 6.JUN.2021 15:29:48

Highest Band Edge / 1 RB



Date: 6.JUN.2021 15:35:22

Band Edge / Full RB



Date: 6.JUN.2021 15:27:57