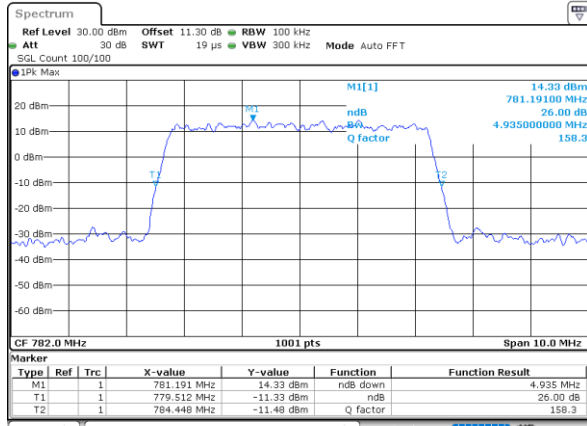




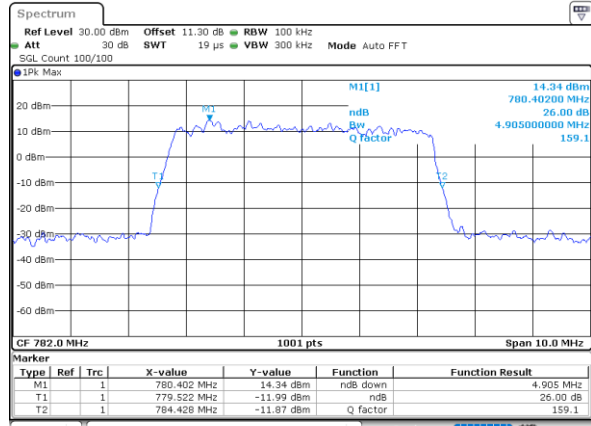
LTE Band 13

Middle Channel / 5MHz / QPSK



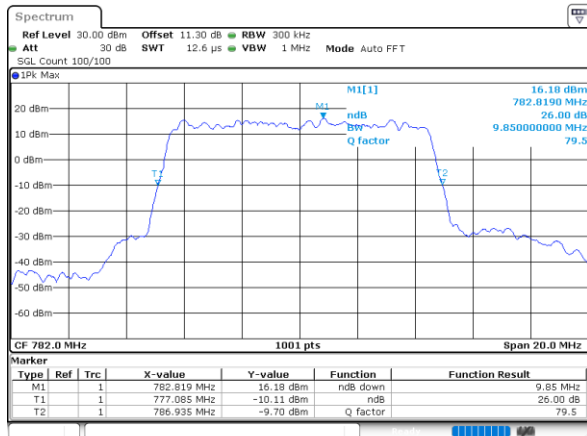
Date: 16.JAN.2021 21:14:06

Middle Channel / 5MHz / 16QAM



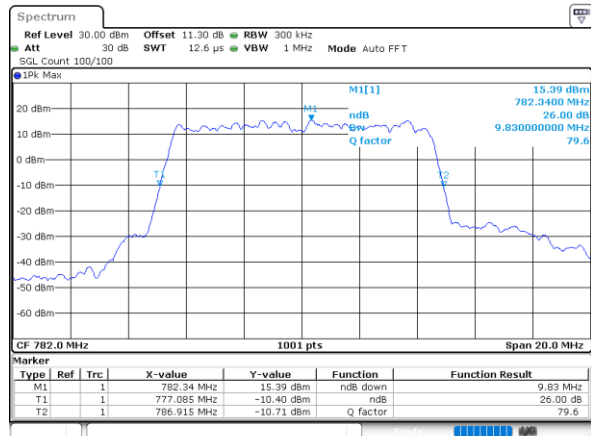
Date: 16.JAN.2021 21:14:17

Middle Channel / 10MHz / QPSK



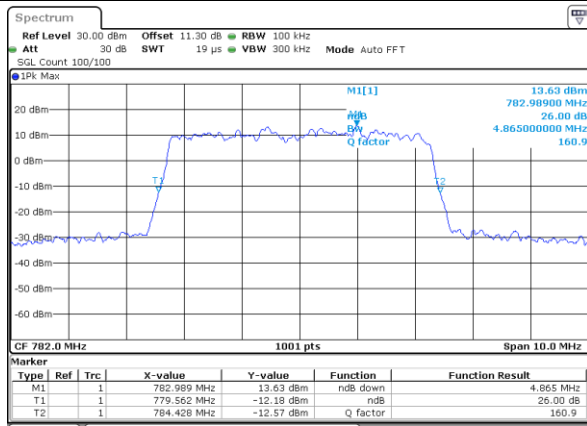
Date: 16.JAN.2021 21:29:49

Middle Channel / 10MHz / 16QAM



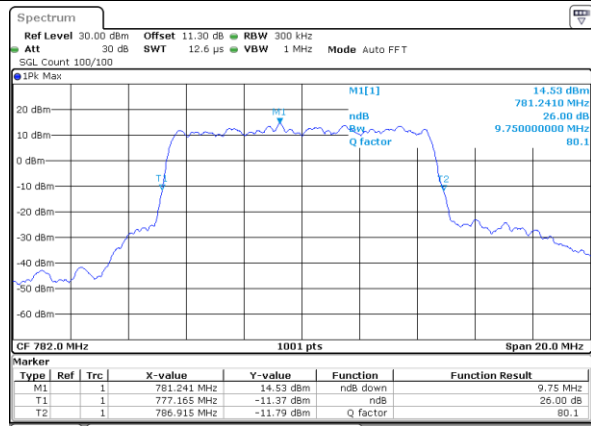
Date: 16.JAN.2021 21:29:38

Middle Channel / 5MHz / 64QAM



Date: 16.JAN.2021 21:25:27

Middle Channel / 10MHz / 64QAM



Date: 16.JAN.2021 21:40:42

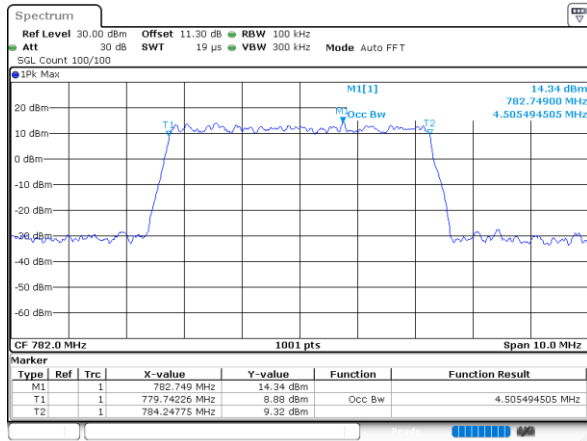
**Occupied Bandwidth**

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	4.47	8.99	8.95	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Middle CH	-	-	-	-	4.49	-	9.05	-	-	-	-	-

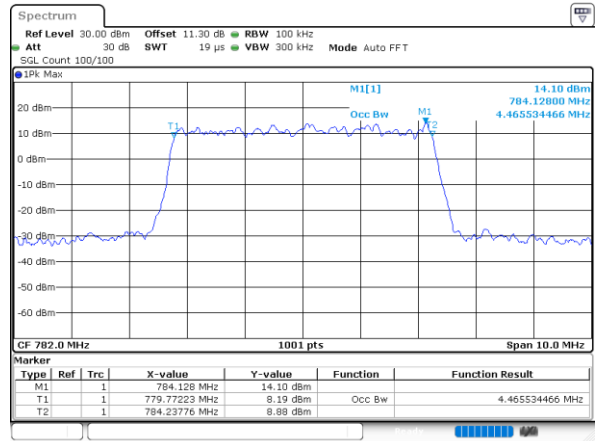


LTE Band 13

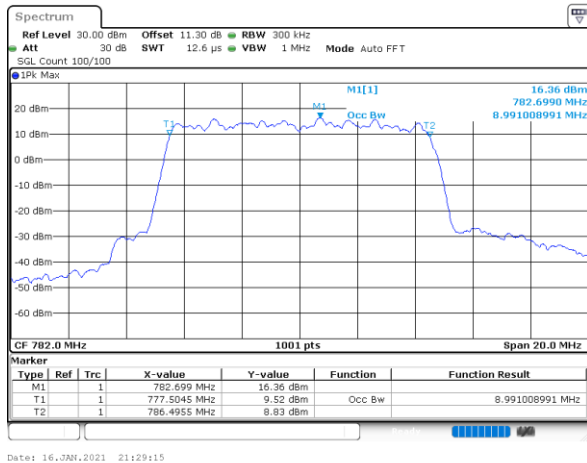
Middle Channel / 5MHz / QPSK



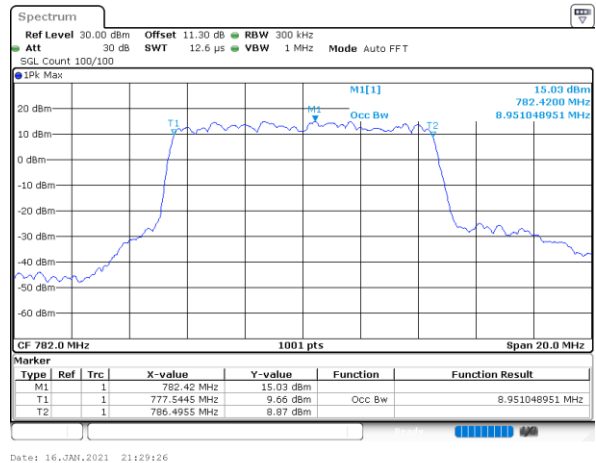
Middle Channel / 5MHz / 16QAM



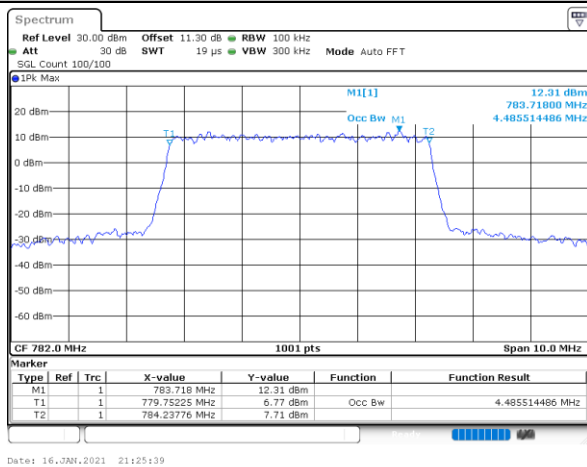
Middle Channel / 10MHz / QPSK



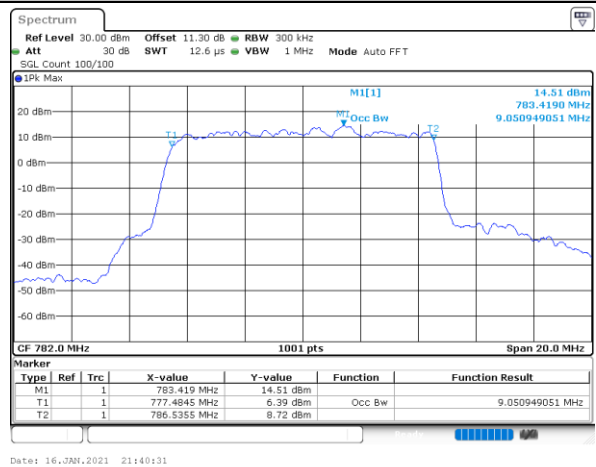
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

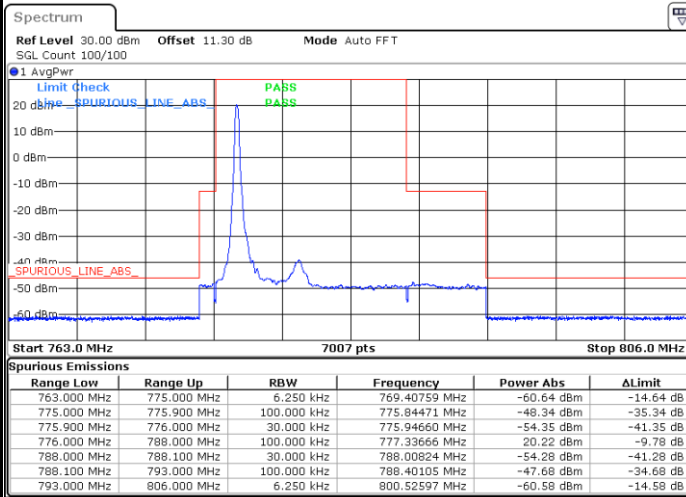




Conducted Band Edge

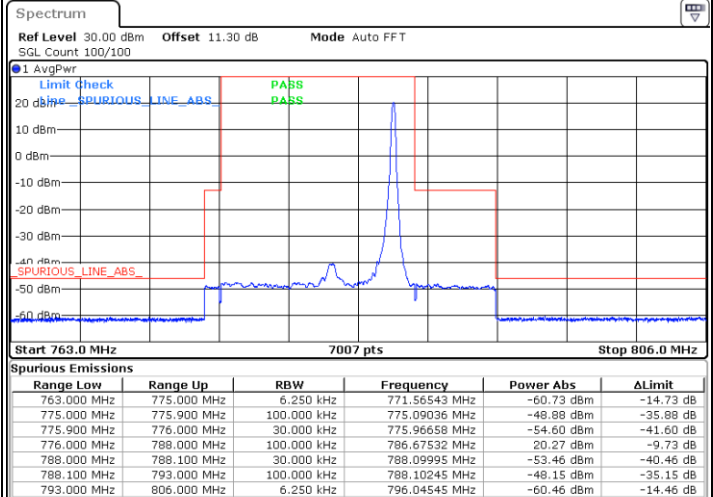
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



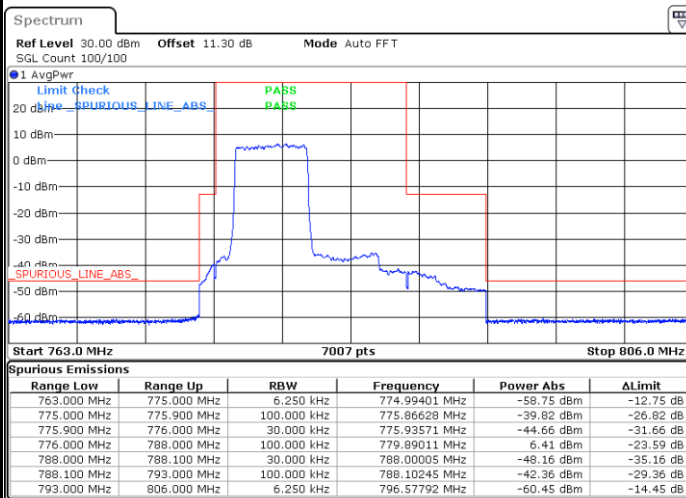
Date: 16.JAN.2021 21:13:01

Highest Band Edge / 1 RB



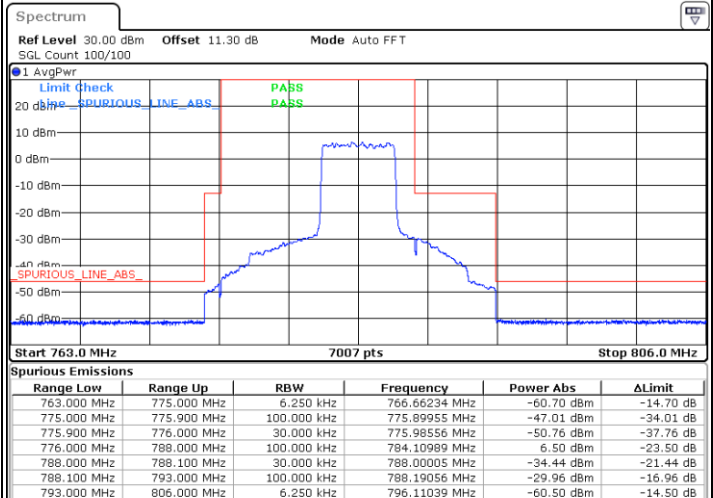
Date: 16.JAN.2021 21:21:25

Lowest Band Edge / Full RB



Date: 16.JAN.2021 21:07:56

Highest Band Edge / Full RB

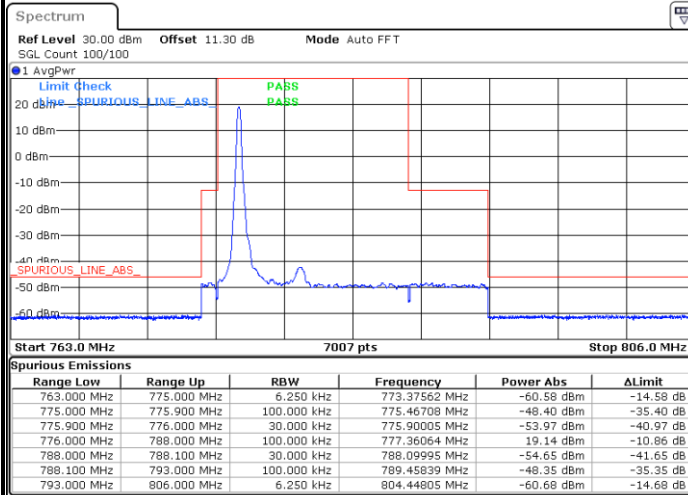


Date: 16.JAN.2021 21:16:20



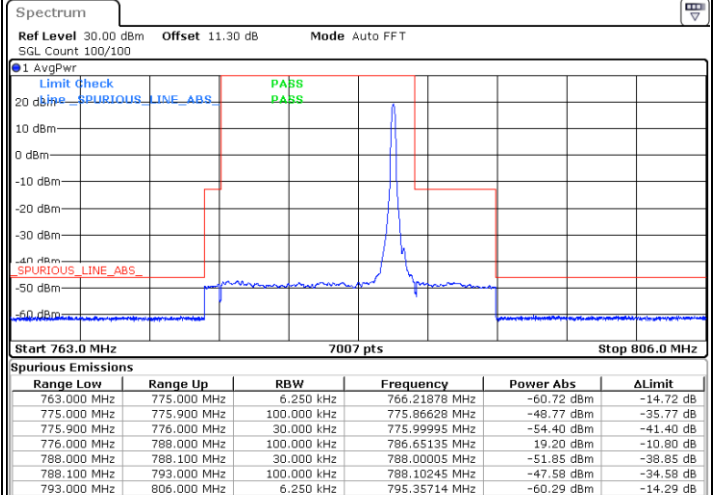
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



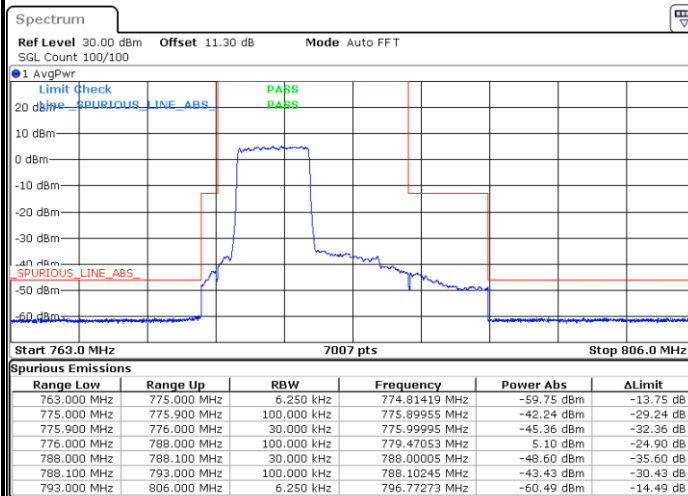
Date: 16.JAN.2021 21:11:19

Highest Band Edge / 1 RB



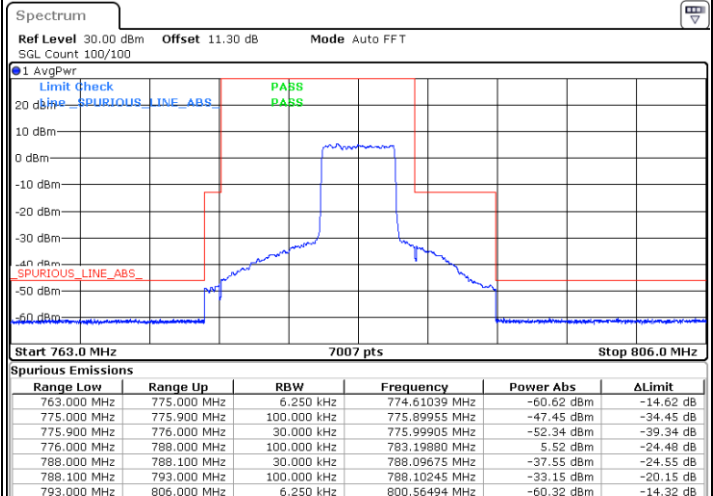
Date: 16.JAN.2021 21:19:43

Lowest Band Edge / Full RB



Date: 16.JAN.2021 21:09:37

Highest Band Edge / Full RB

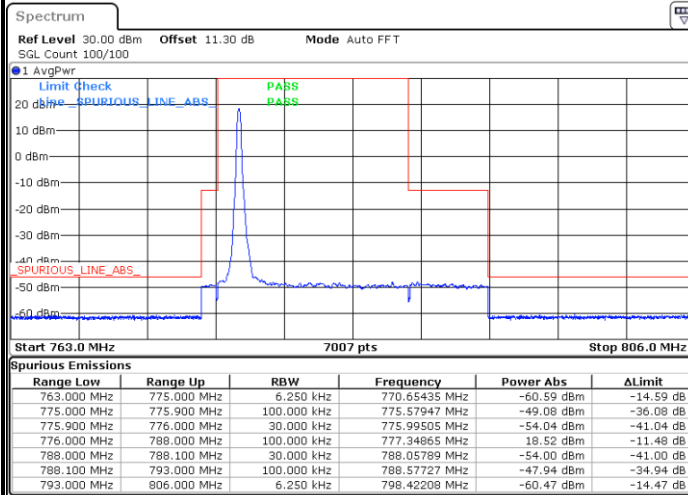


Date: 16.JAN.2021 21:18:01

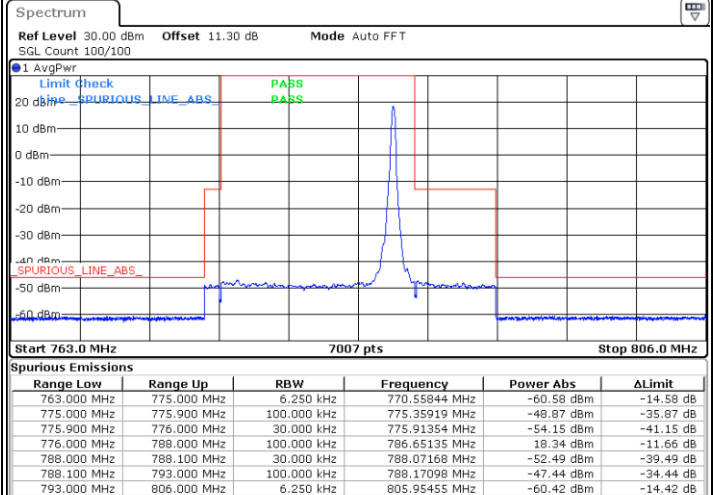


LTE Band 13 / 5MHz / 64QAM

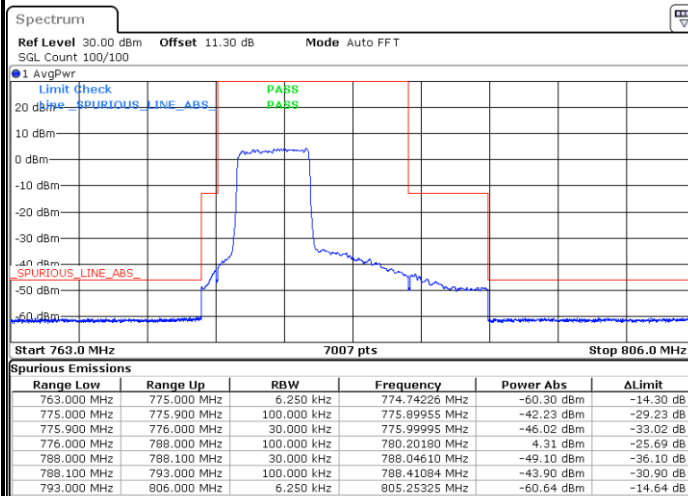
Lowest Band Edge / 1 RB



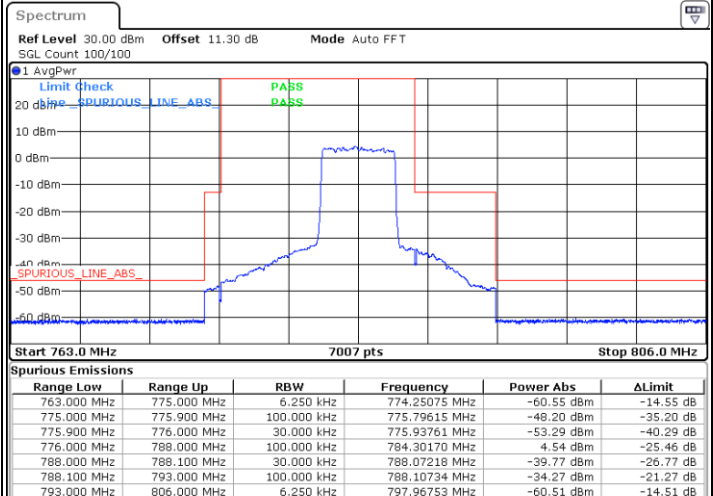
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



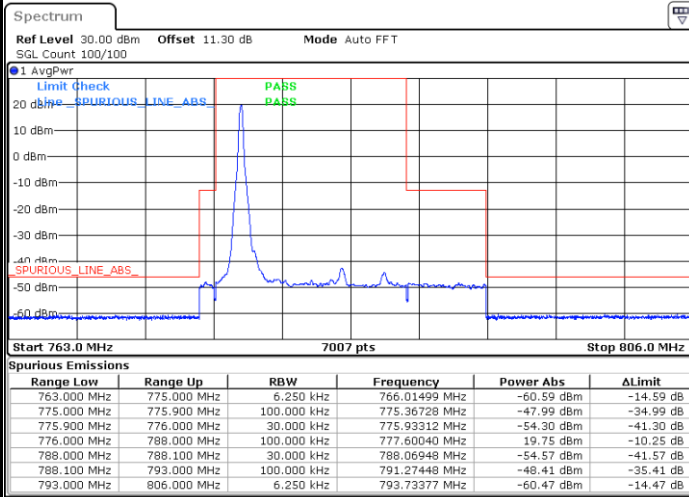
Highest Band Edge / Full RB





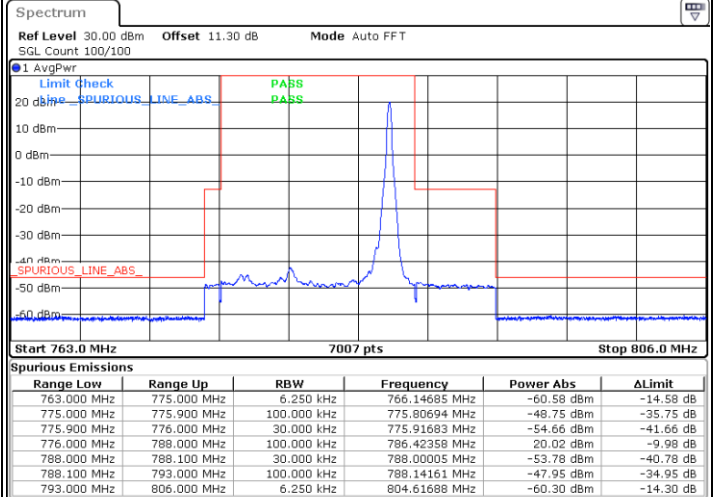
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



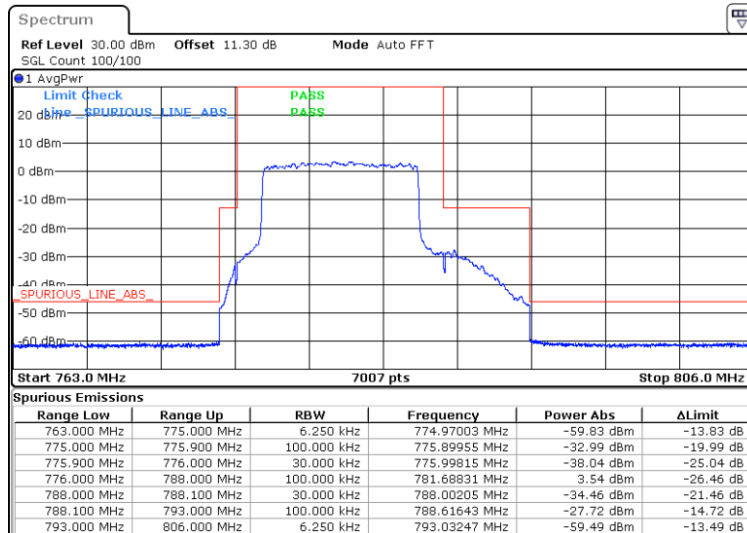
Date: 16.JAN.2021 21:36:31

Highest Band Edge / 1 RB



Date: 16.JAN.2021 21:38:11

Band Edge / Full RB

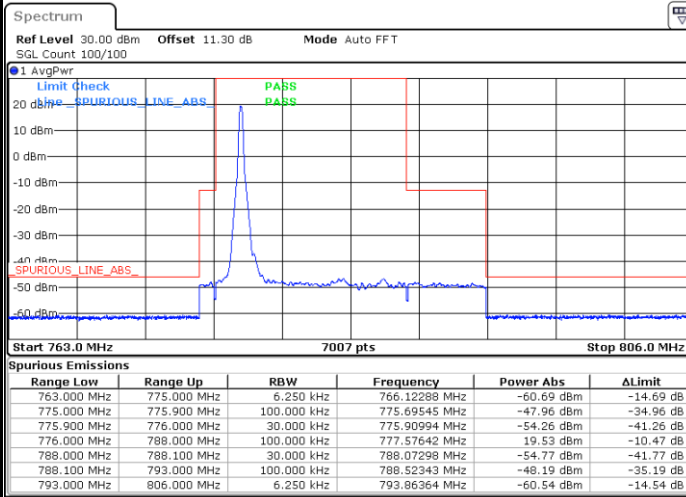


Date: 16.JAN.2021 21:31:29

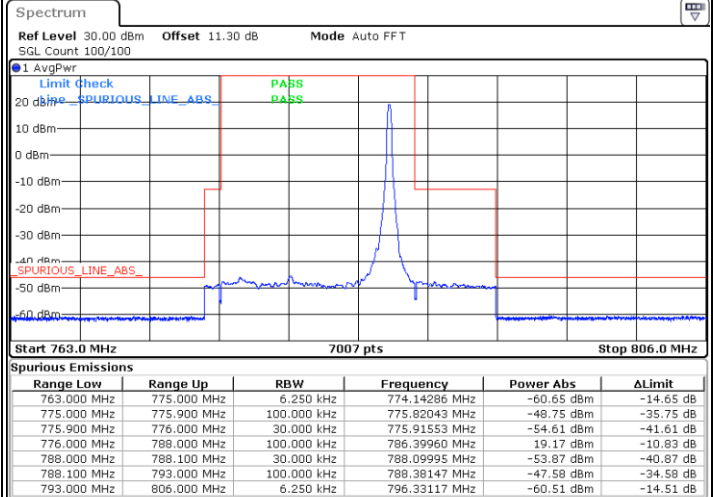


LTE Band 13 / 10MHz / 16QAM

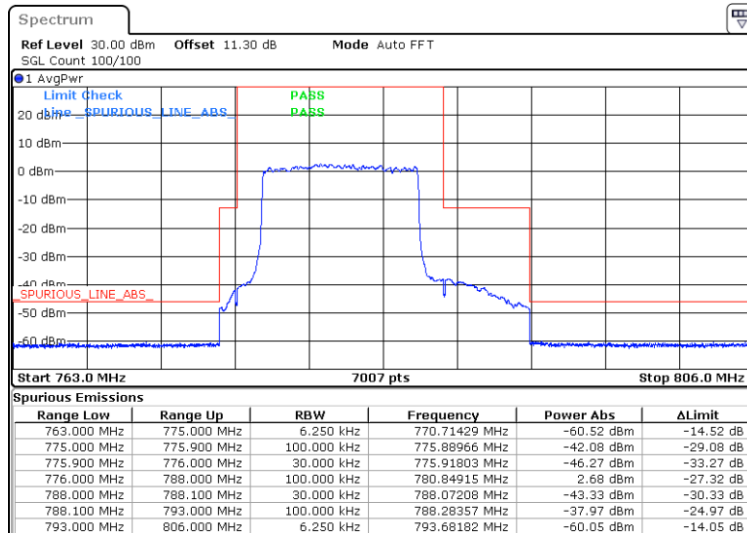
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



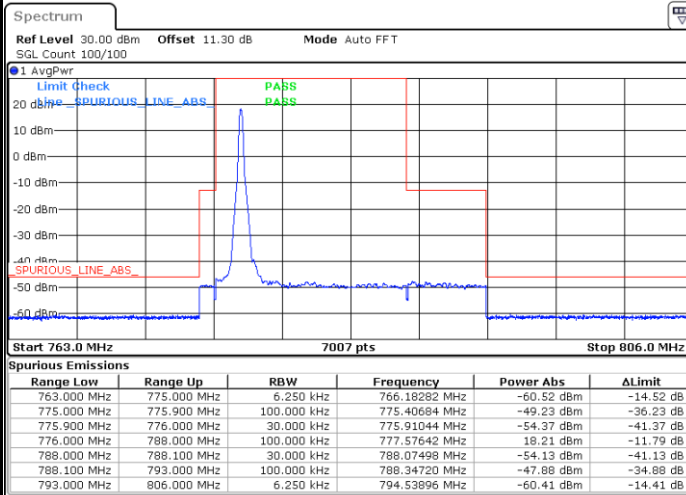
Band Edge / Full RB





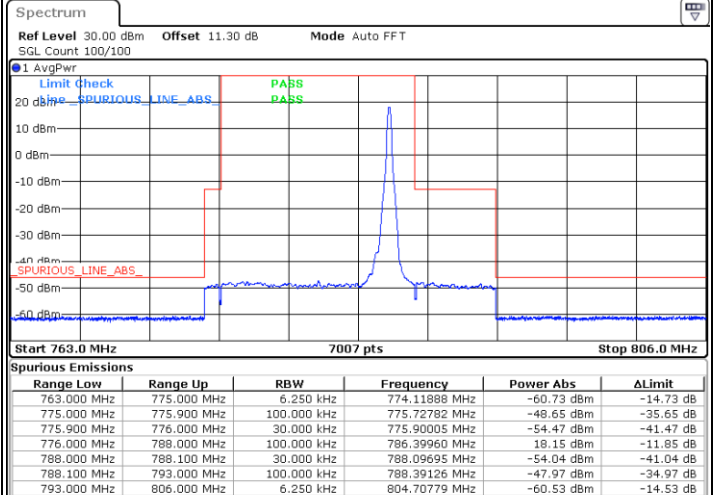
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



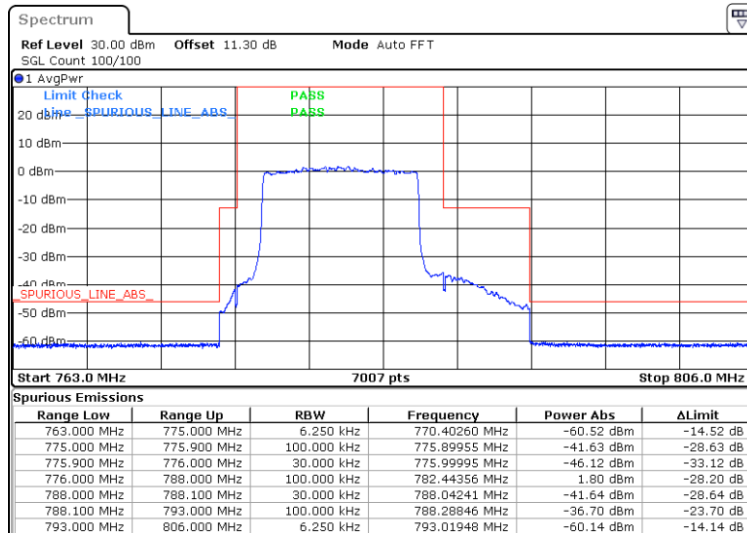
Date: 16.JAN.2021 21:44:02

Highest Band Edge / 1 RB



Date: 16.JAN.2021 21:45:43

Band Edge / Full RB

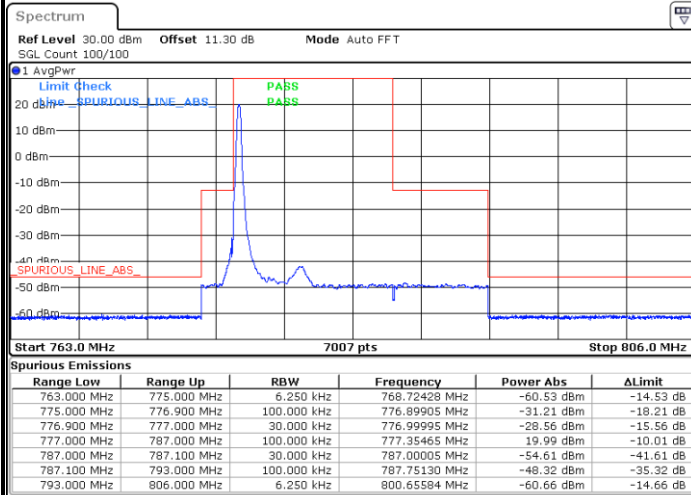


Date: 16.JAN.2021 21:42:22



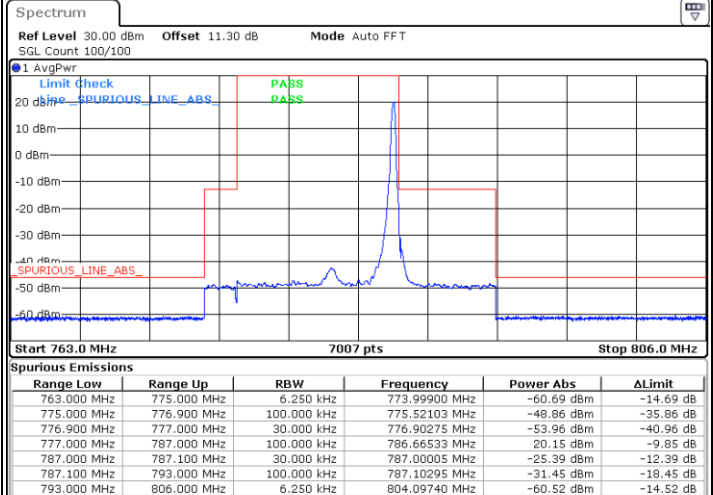
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



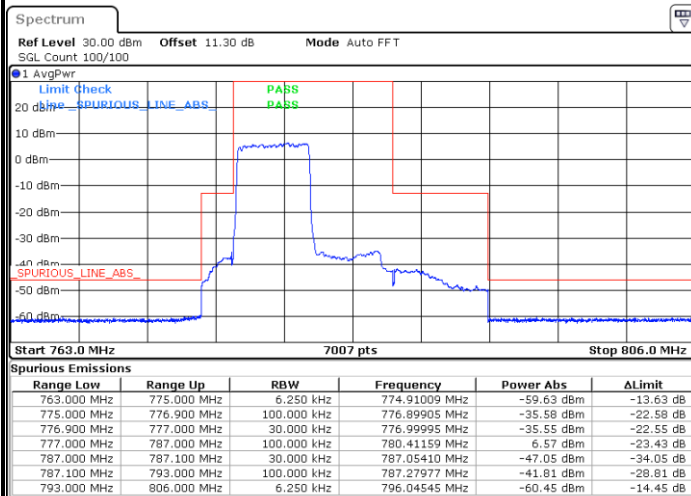
Date: 16.JAN.2021 22:25:42

Highest Band Edge / 1 RB



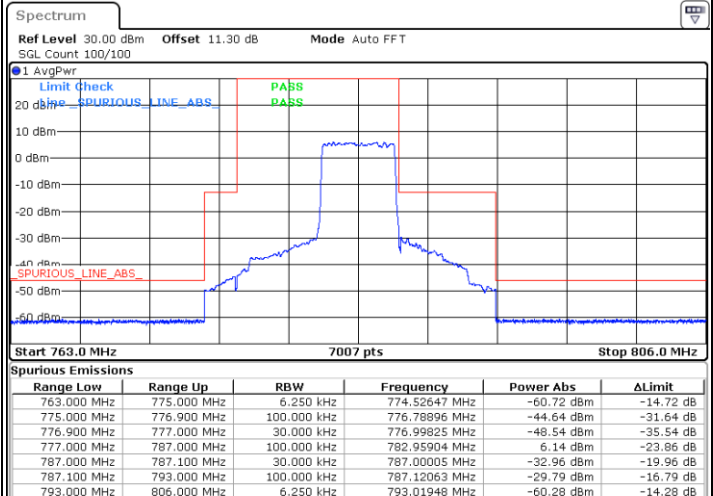
Date: 16.JAN.2021 22:32:29

Lowest Band Edge / Full RB



Date: 16.JAN.2021 22:20:38

Highest Band Edge / Full RB

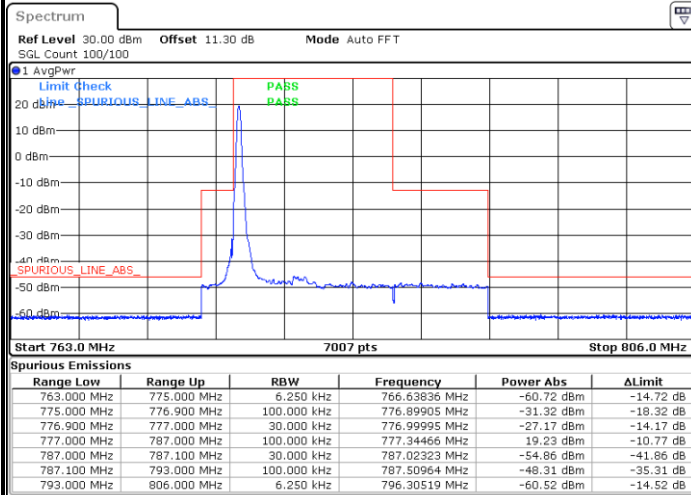


Date: 16.JAN.2021 22:27:24

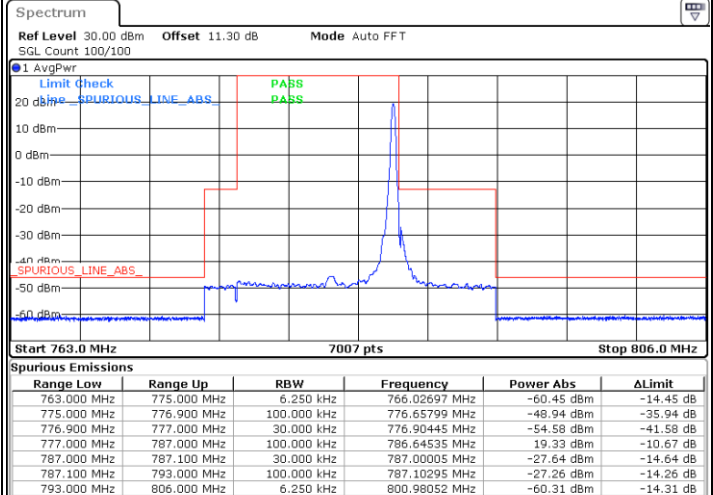


IC LTE Band 13 / 5MHz / 16QAM

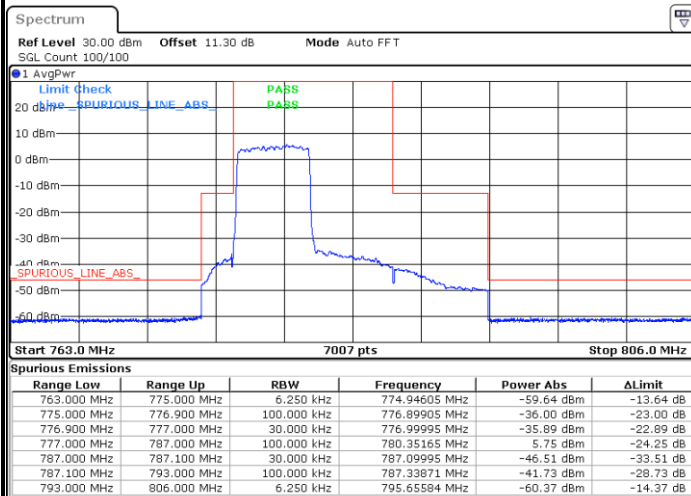
Lowest Band Edge / 1 RB



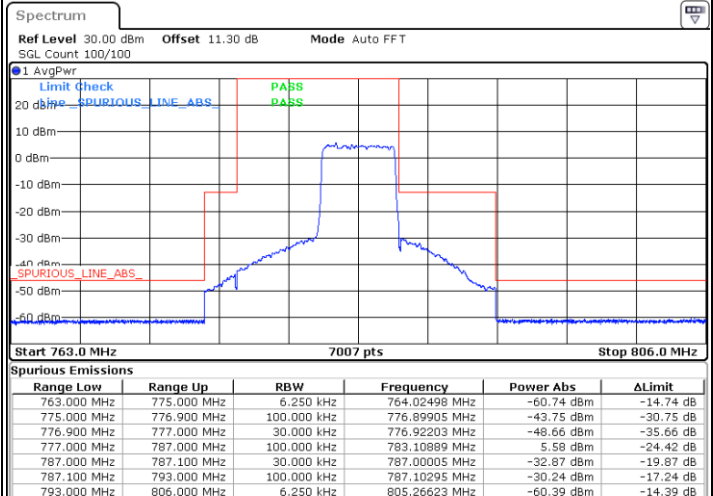
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



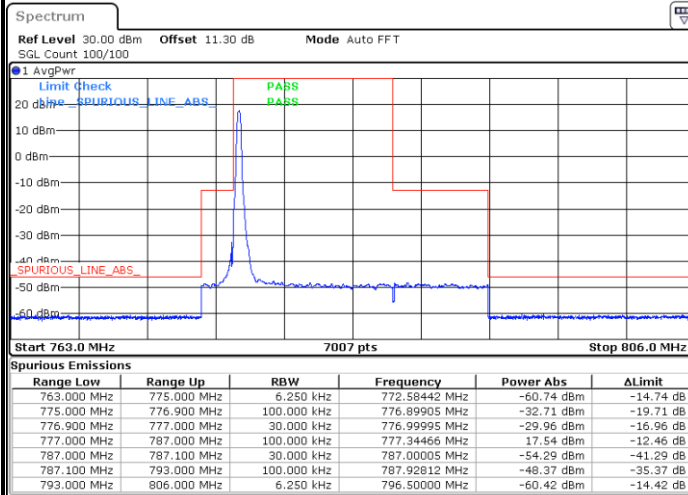
Highest Band Edge / Full RB





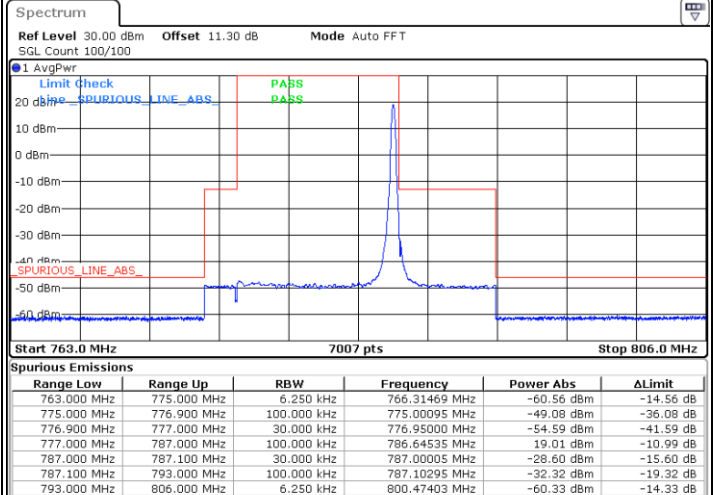
IC LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



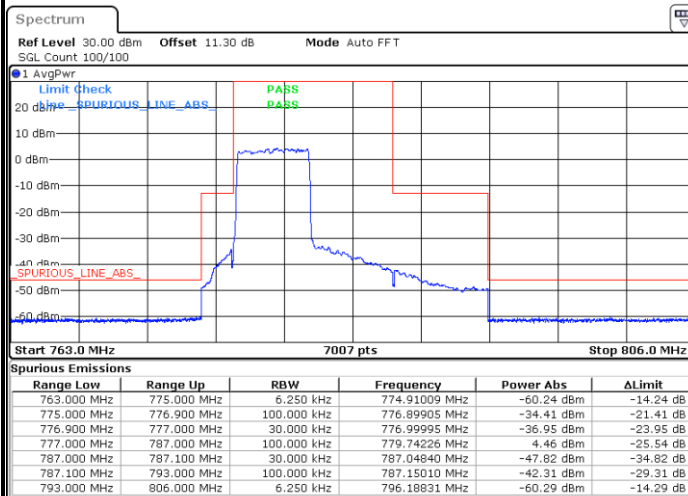
Date: 16.JAN.2021 22:35:51

Highest Band Edge / 1 RB



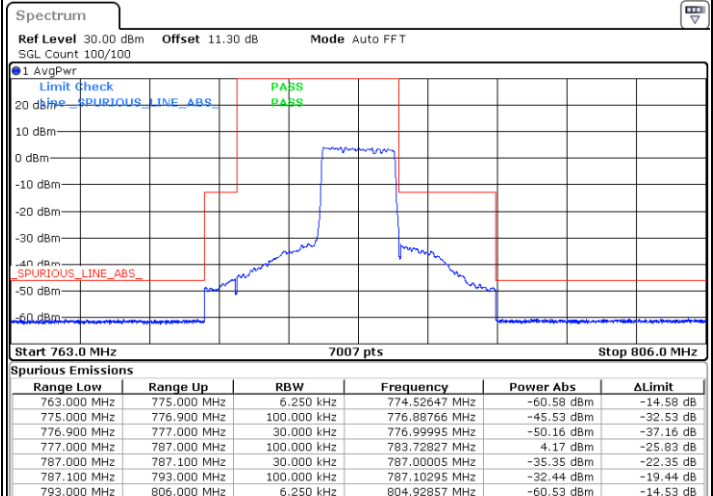
Date: 16.JAN.2021 22:39:14

Lowest Band Edge / Full RB



Date: 16.JAN.2021 22:34:10

Highest Band Edge / Full RB

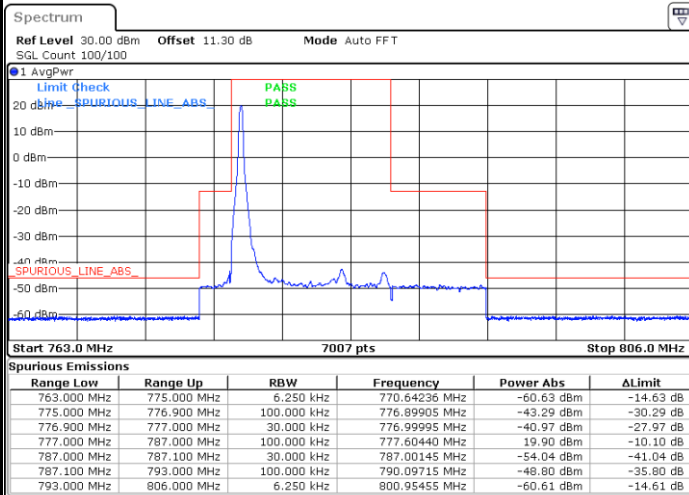


Date: 16.JAN.2021 22:37:33



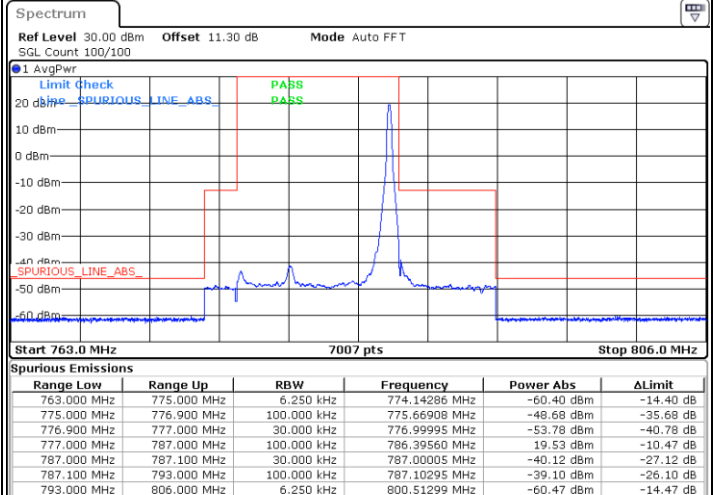
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



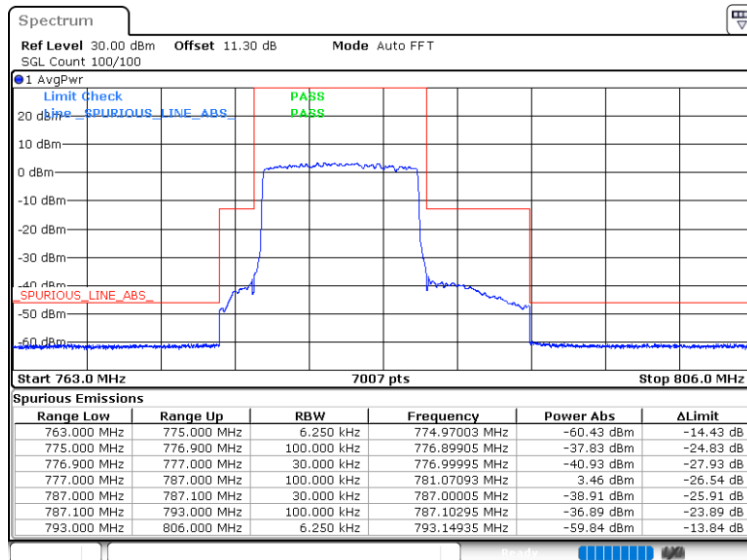
Date: 16.JAN.2021 22:51:03

Highest Band Edge / 1 RB



Date: 16.JAN.2021 22:52:44

Band Edge / Full RB

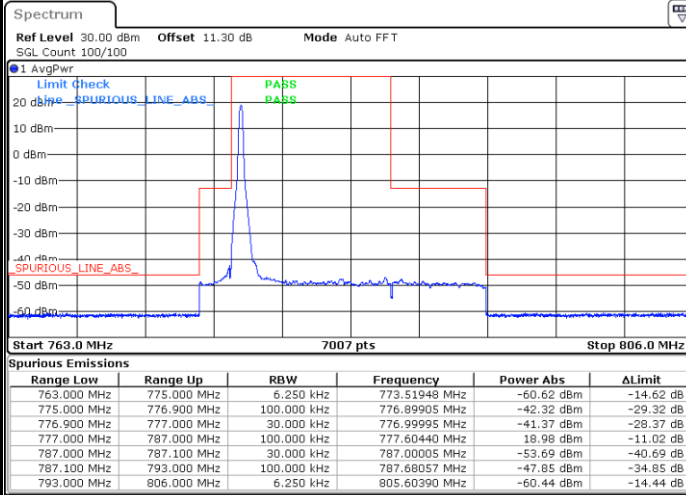


Date: 16.JAN.2021 22:46:00



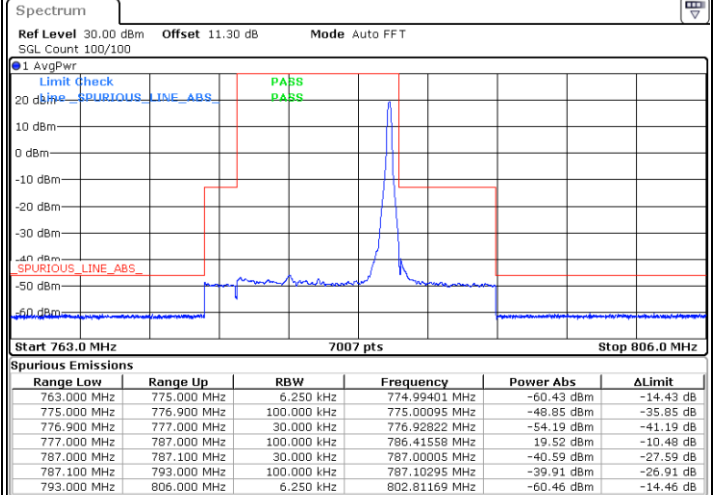
IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



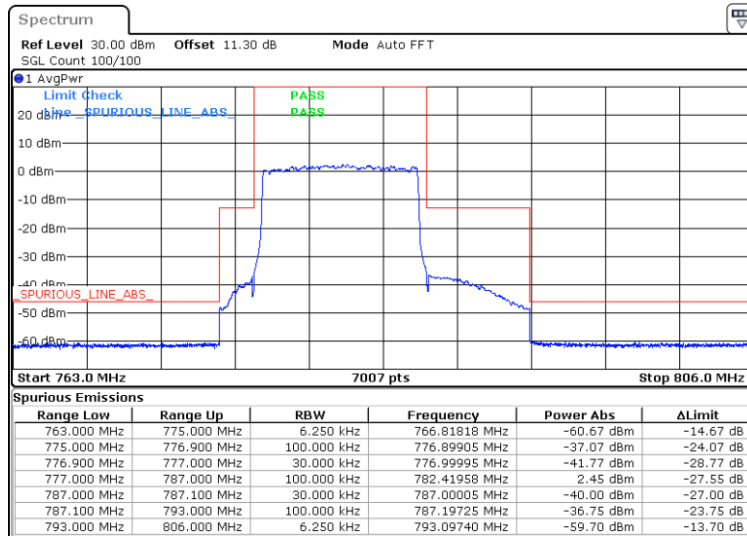
Date: 16.JAN.2021 22:49:22

Highest Band Edge / 1 RB



Date: 16.JAN.2021 22:54:25

Band Edge / Full RB

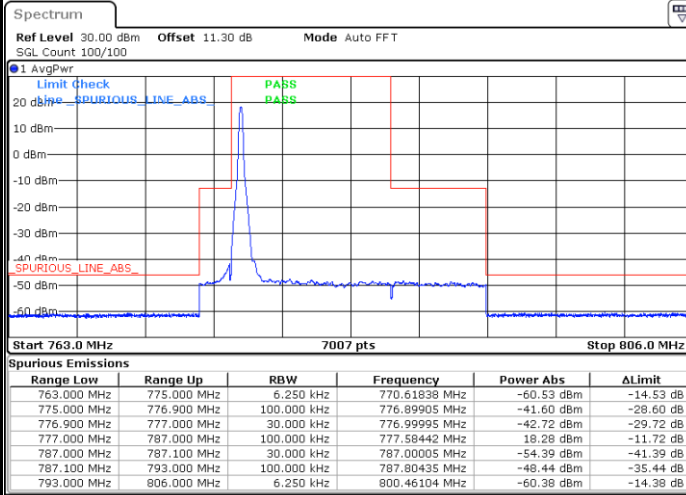


Date: 16.JAN.2021 22:47:41



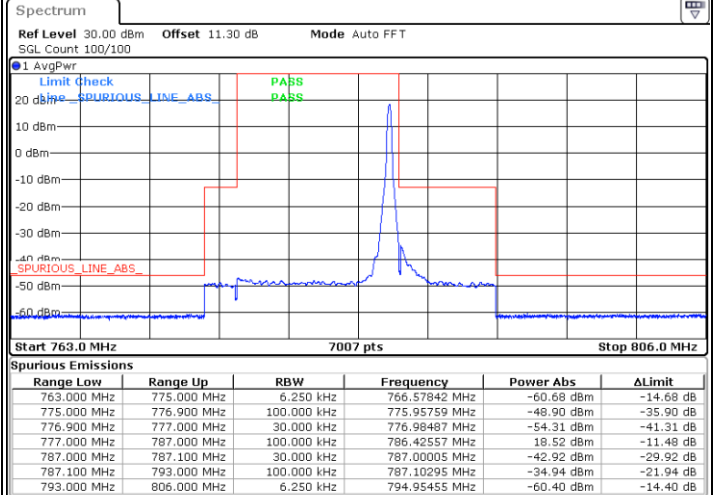
IC LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



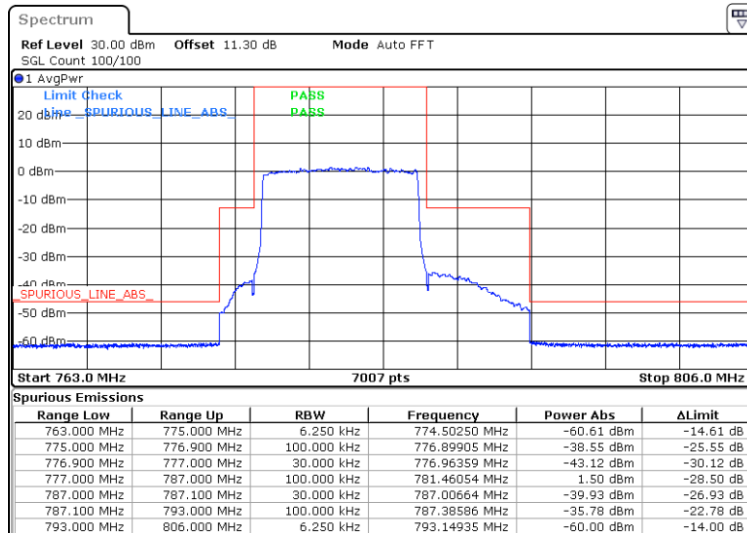
Date: 16.JAN.2021 22:42:38

Highest Band Edge / 1 RB



Date: 16.JAN.2021 22:44:19

Band Edge / Full RB



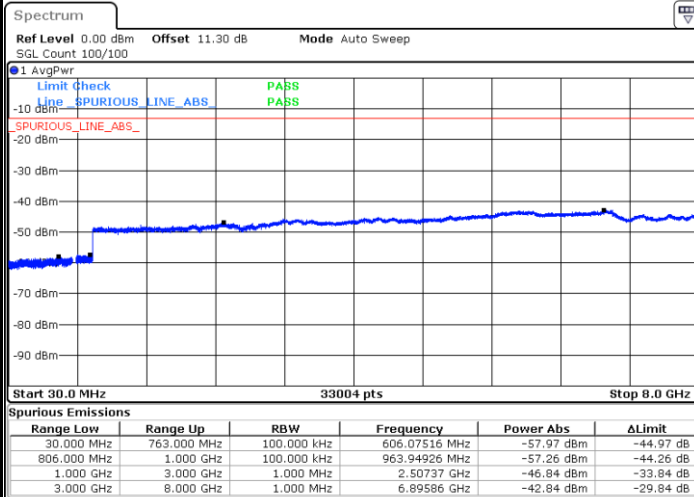
Date: 16.JAN.2021 22:40:57



Conducted Spurious Emission

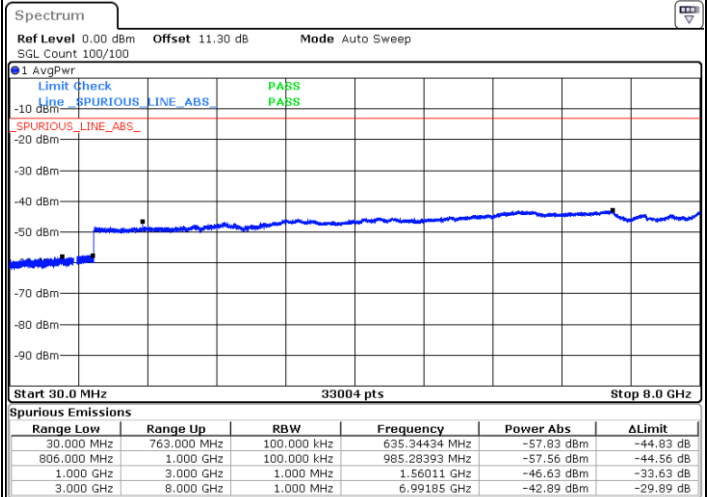
LTE Band 13 / 5MHz

Lowest Channel / QPSK



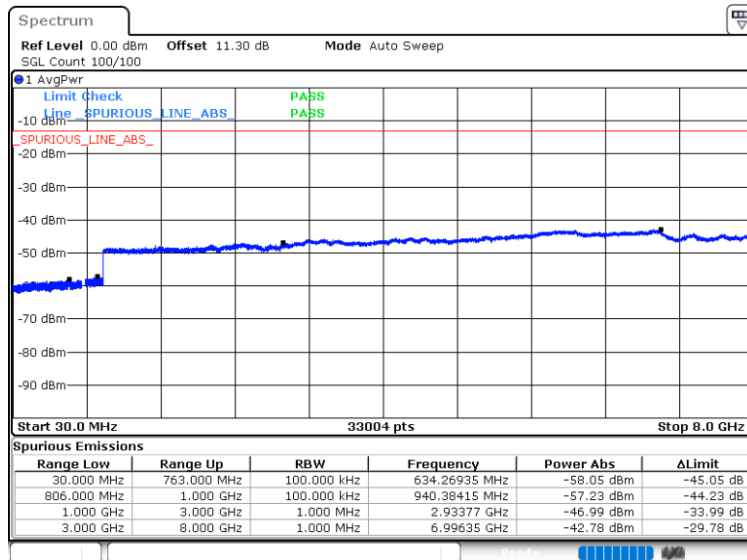
Date: 16.JAN.2021 21:13:27

Middle Channel / QPSK



Date: 16.JAN.2021 21:13:53

Highest Channel / QPSK

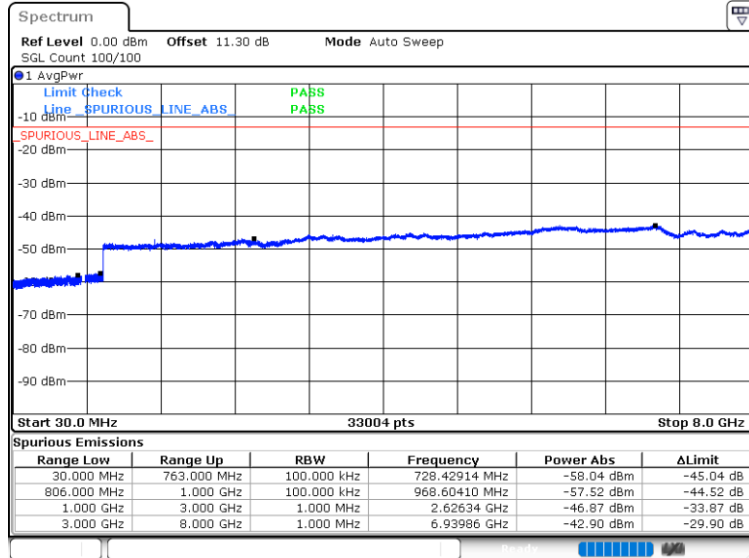


Date: 16.JAN.2021 21:21:51



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 16.JAN.2021 21:40:18

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	0.0003	PASS
40	Normal Voltage	0.0161	
30	Normal Voltage	0.0120	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0116	
0	Normal Voltage	0.0125	
-10	Normal Voltage	0.0159	
-20	Normal Voltage	0.0113	
-30	Normal Voltage	0.0130	
20	Maximum Voltage	0.0040	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0176	

Note:

1. Normal Voltage =48 V. ; Battery End Point (BEP) =43 V. ; Maximum Voltage =53 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

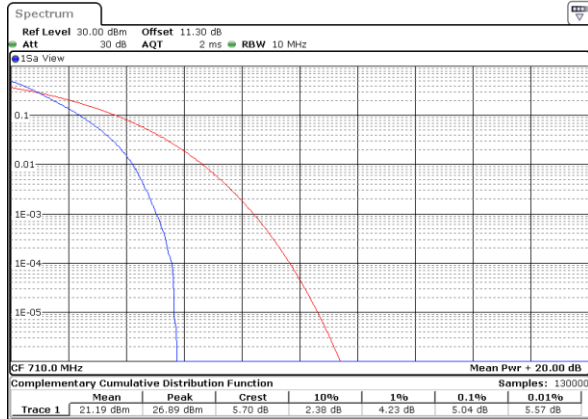
**LTE Band 17****Peak-to-Average Ratio**

Mode	LTE Band 17 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.04	5.91	6.43	PASS



LTE Band 17 / 10MHz / QPSK

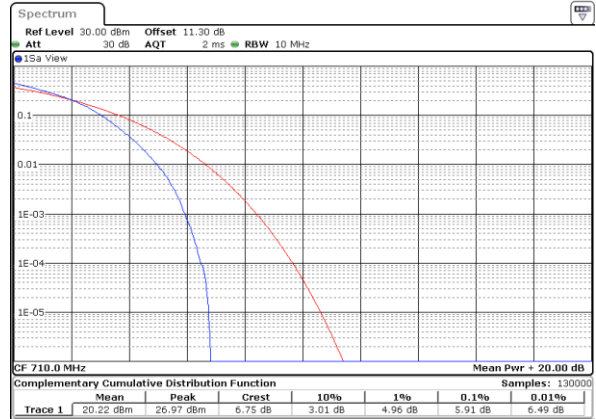
Middle Channel / Full RB



Date: 16.JAN.2021 23:53:00

LTE Band 17 / 10MHz / 16QAM

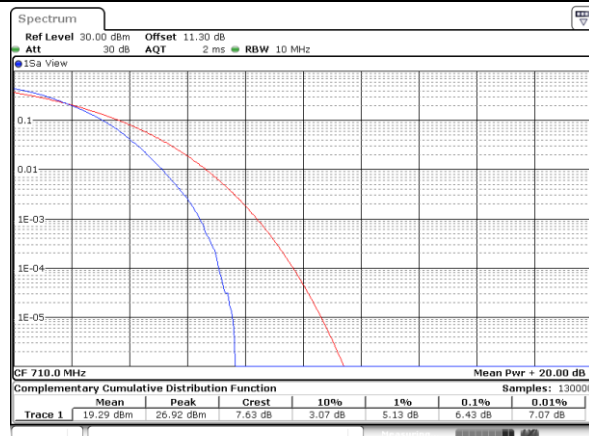
Middle Channel / Full RB



Date: 16.JAN.2021 23:52:45

LTE Band 17 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 16.JAN.2021 23:53:13

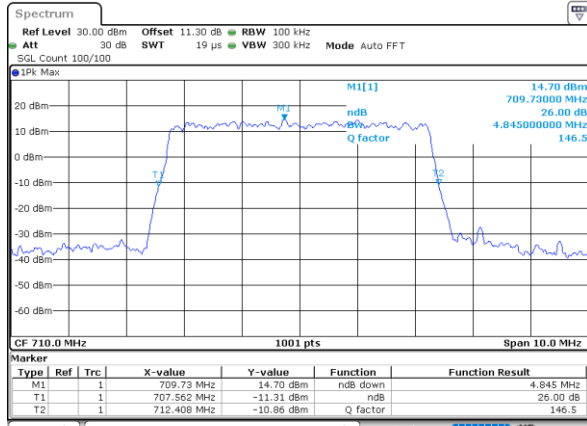
**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.85	4.87	9.67	9.63	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Middle CH	-	-	-	-	4.88	-	9.81	-	-	-	-	-



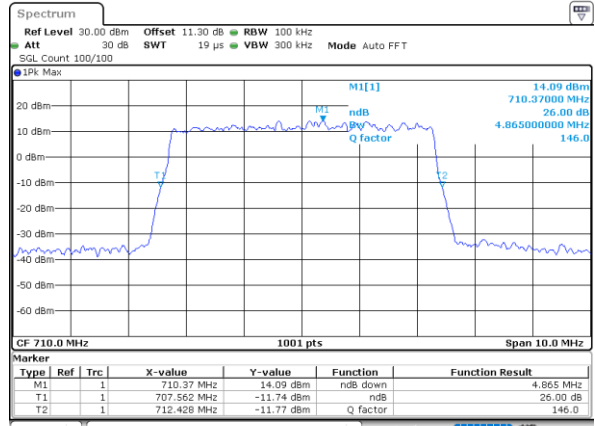
LTE Band 17

Middle Channel / 5MHz / QPSK



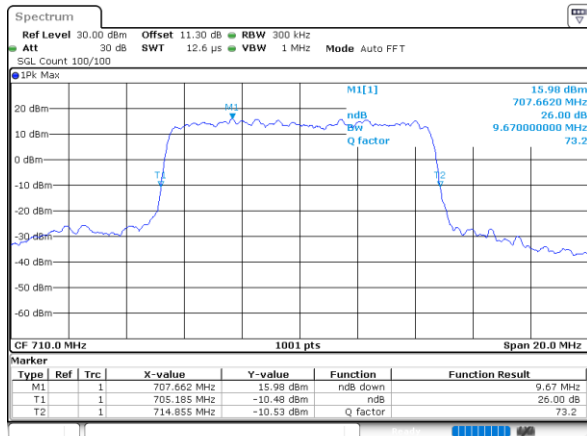
Date: 16, JAN, 2021 23:34:06

Middle Channel / 5MHz / 16QAM



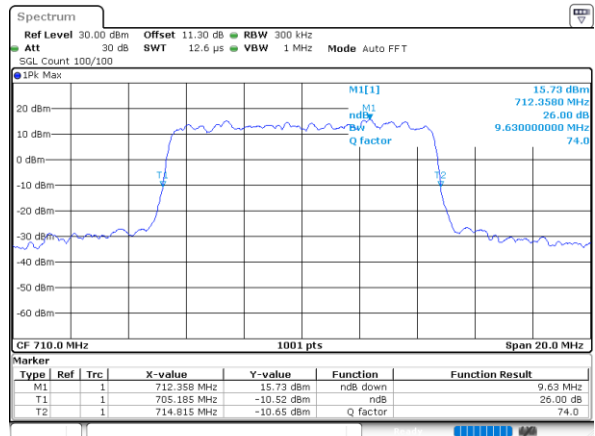
Date: 16, JAN, 2021 23:34:17

Middle Channel / 10MHz / QPSK



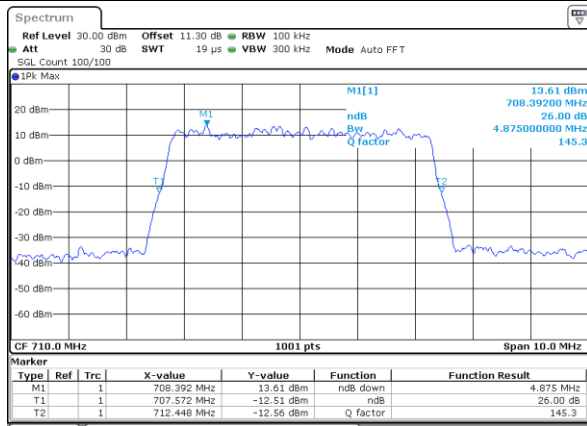
Date: 16, JAN, 2021 23:41:53

Middle Channel / 10MHz / 16QAM



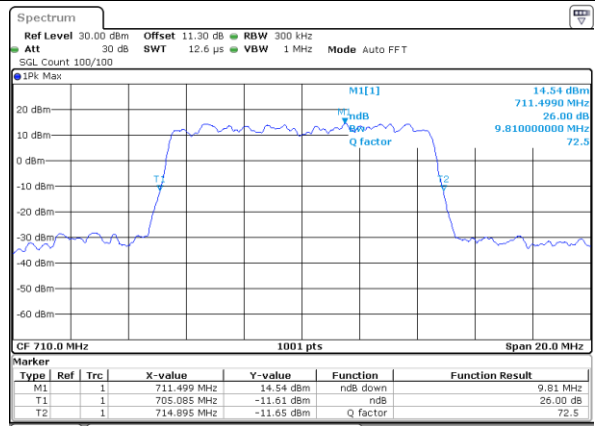
Date: 16, JAN, 2021 23:42:04

Middle Channel / 5MHz / 64QAM



Date: 16, JAN, 2021 23:47:35

Middle Channel / 10MHz / 64QAM



Date: 16, JAN, 2021 23:50:48

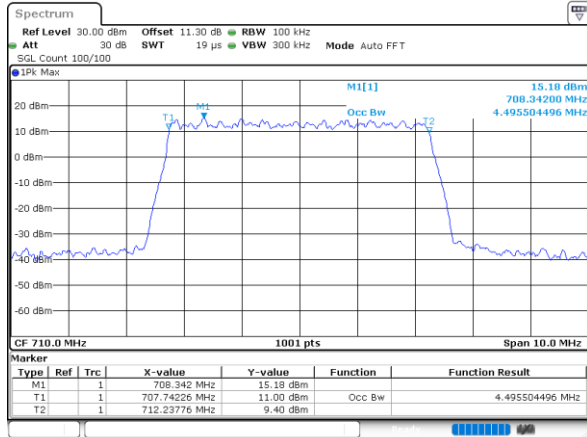
**Occupied Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.50	4.50	9.05	9.07	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Middle CH	-	-	-	-	4.48	-	8.99	-	-	-	-	-

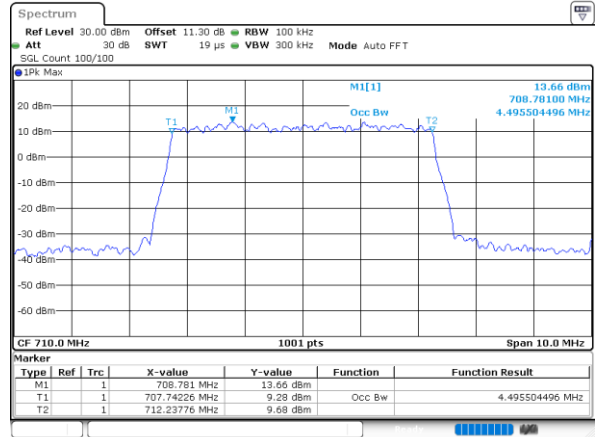


LTE Band 17

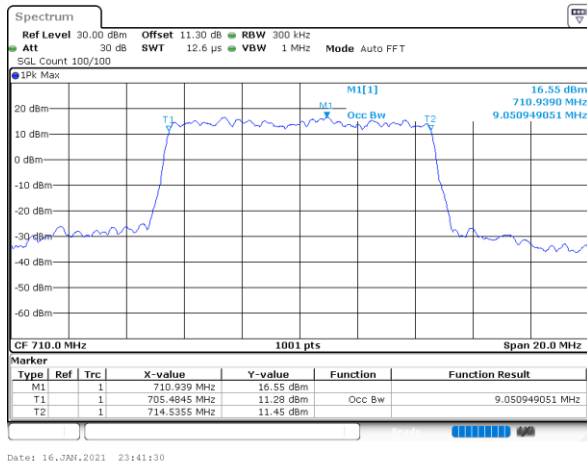
Middle Channel / 5MHz / QPSK



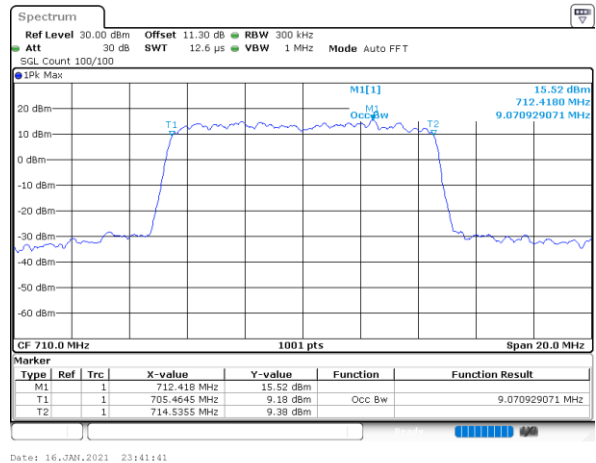
Middle Channel / 5MHz / 16QAM



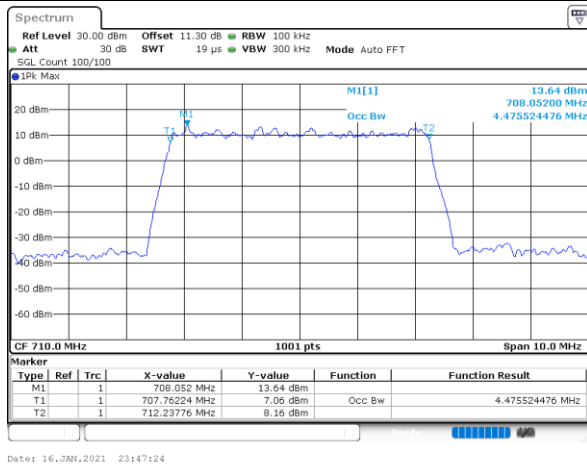
Middle Channel / 10MHz / QPSK



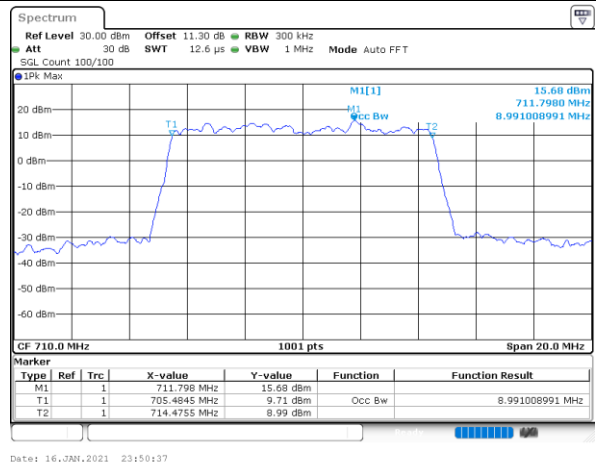
Middle Channel / 10MHz / 16QAM



Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM

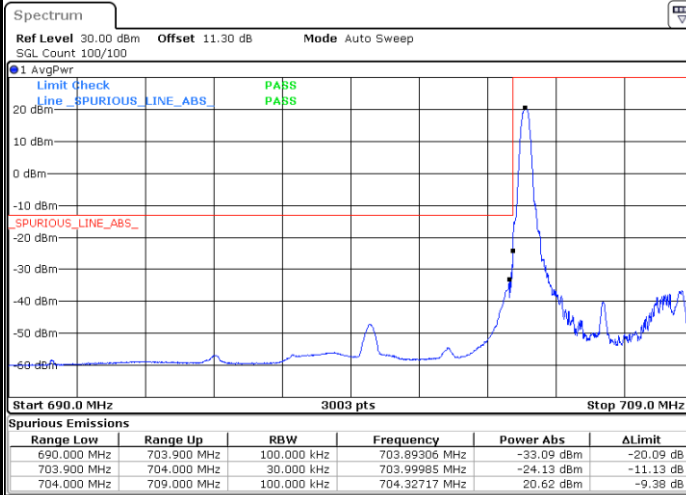




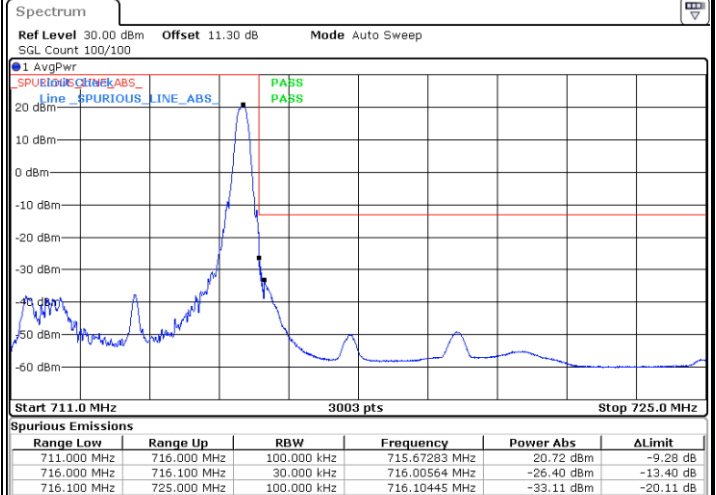
Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

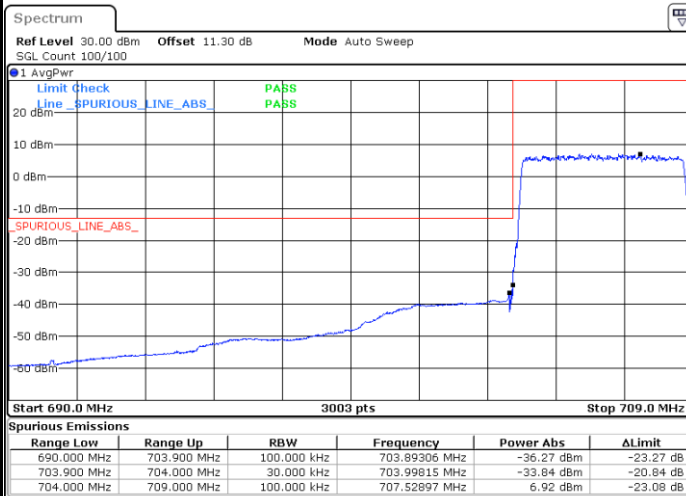
Lowest Band Edge / 1 RB



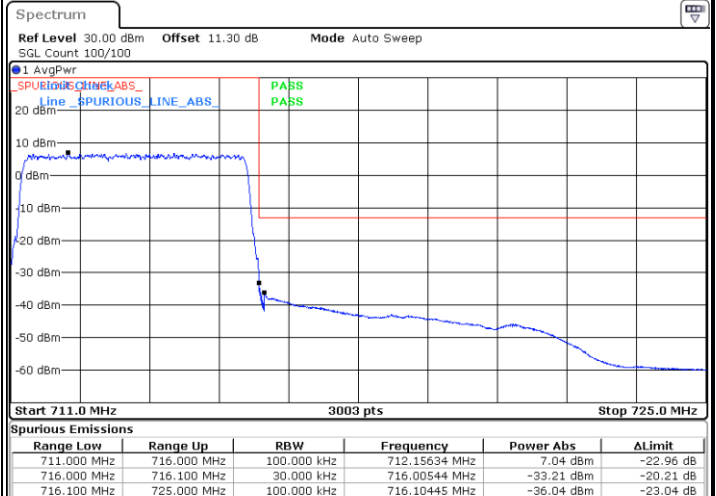
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



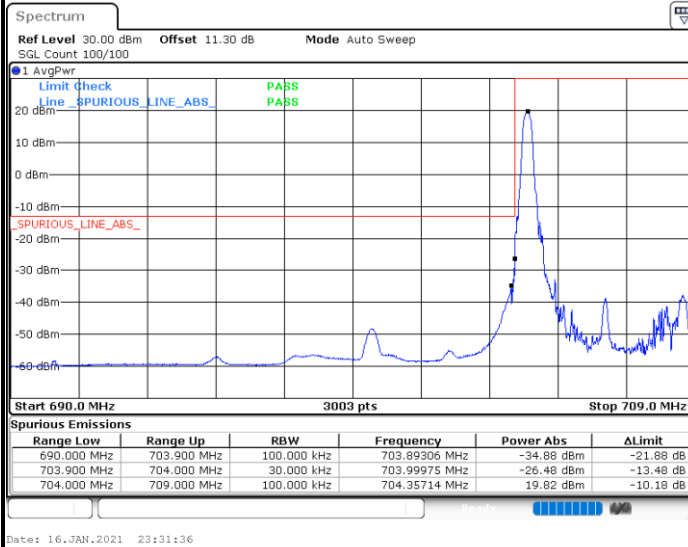
Highest Band Edge / Full RB



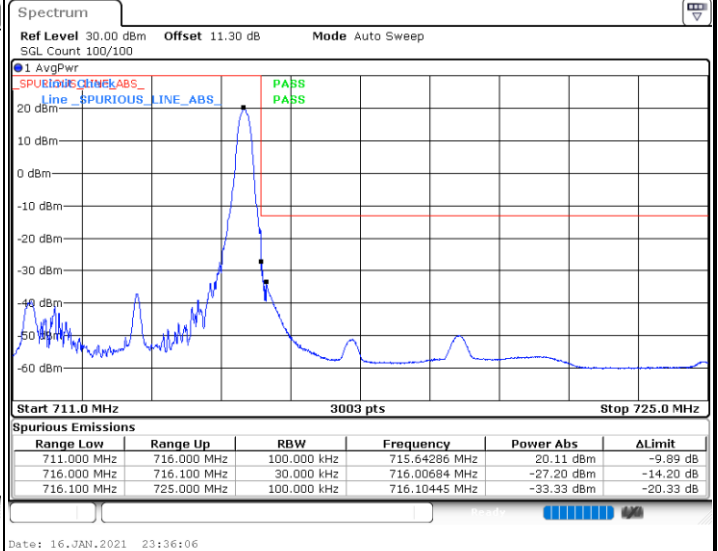


LTE Band 17 / 5MHz / 16QAM

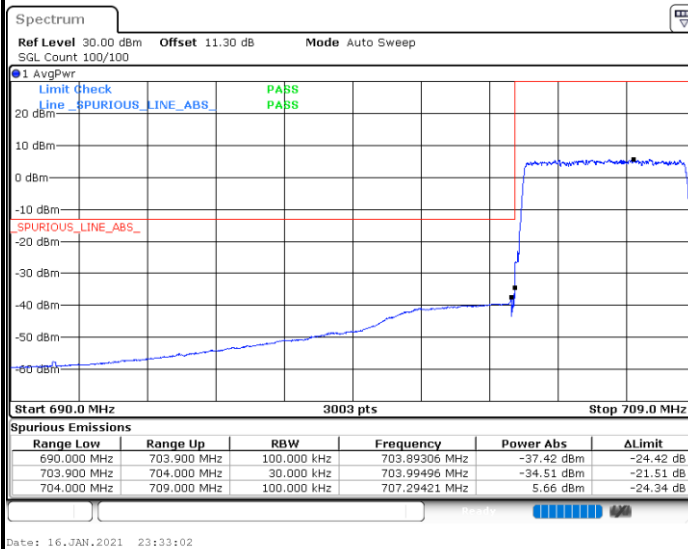
Lowest Band Edge / 1 RB



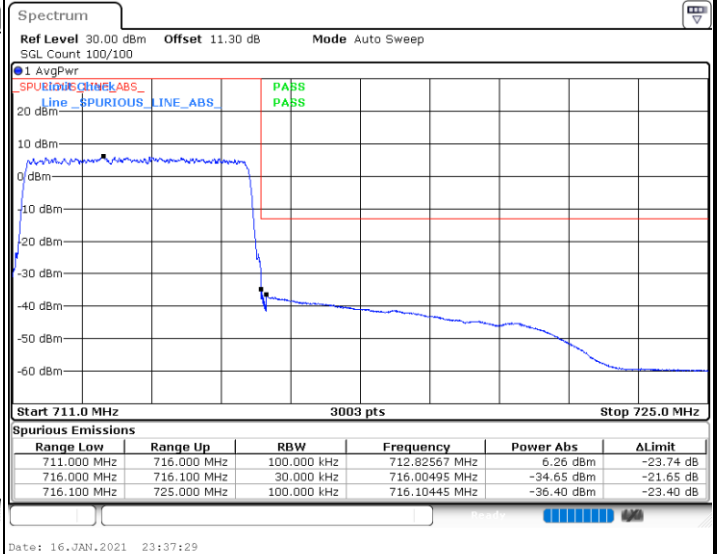
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



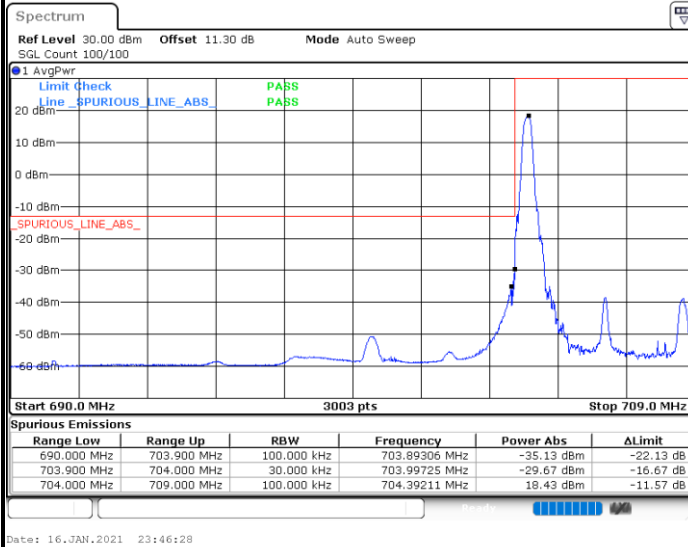
Highest Band Edge / Full RB



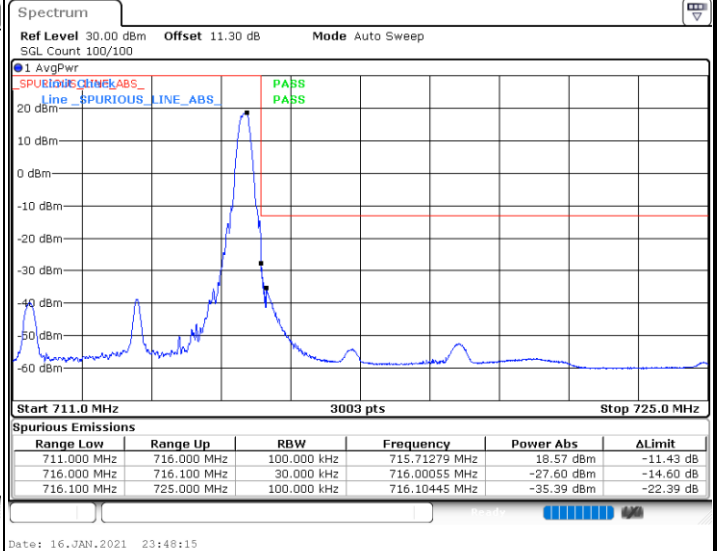


LTE Band 17 / 5MHz / 64QAM

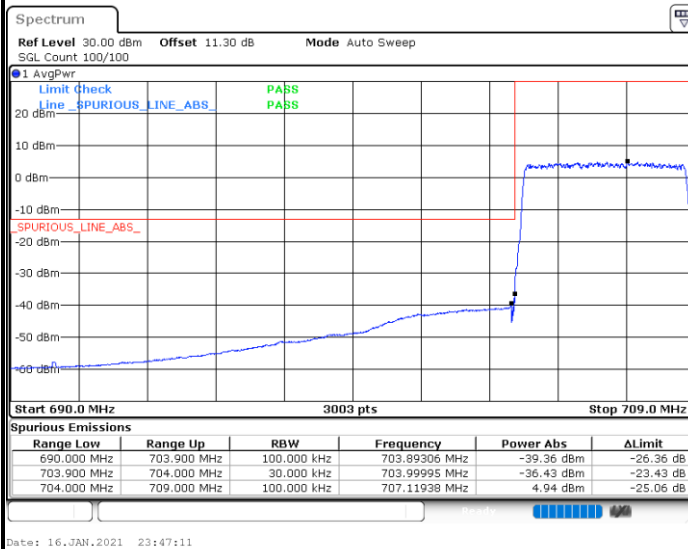
Lowest Band Edge / 1 RB



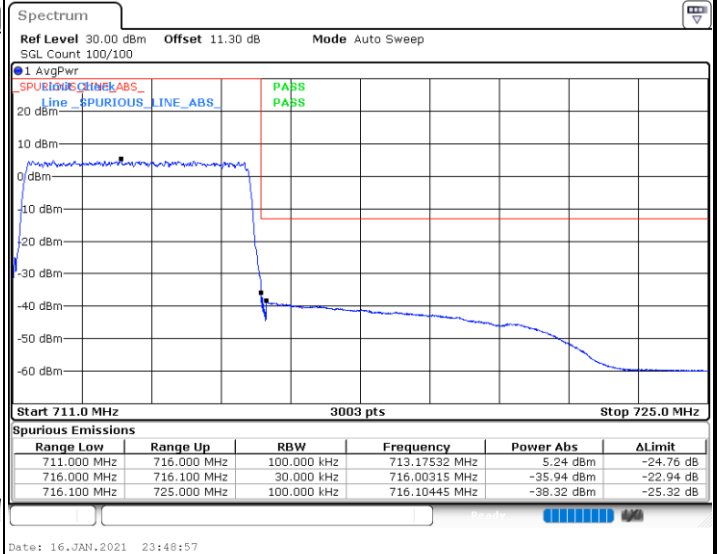
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



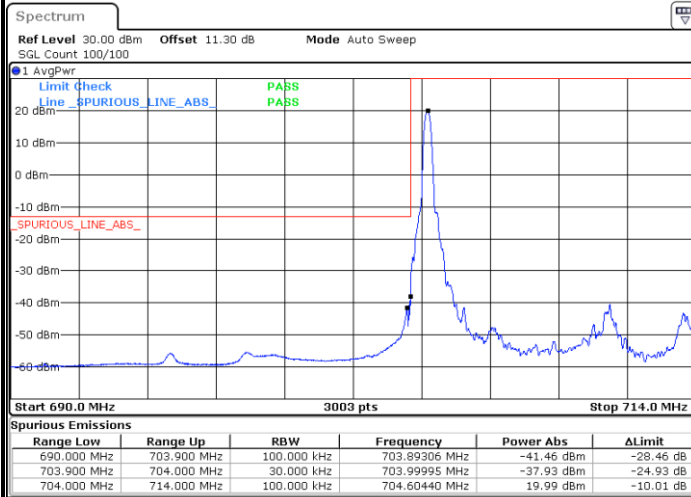
Highest Band Edge / Full RB



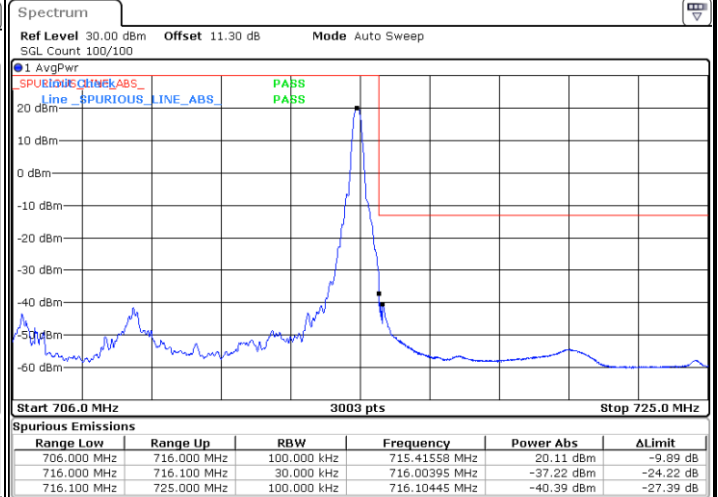


LTE Band 17 / 10MHz / QPSK

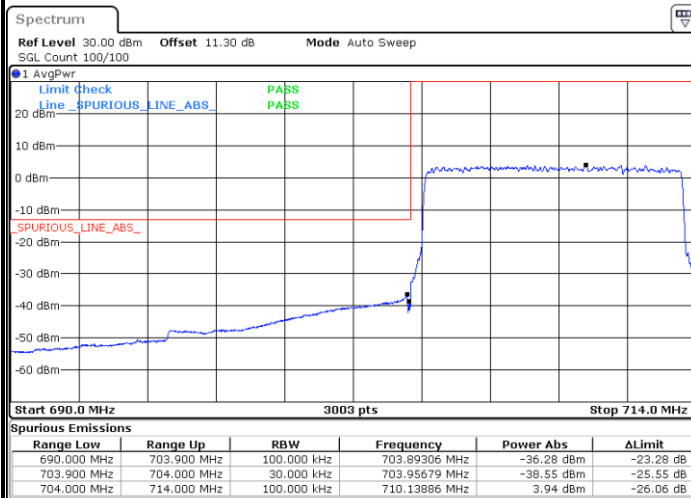
Lowest Band Edge / 1 RB



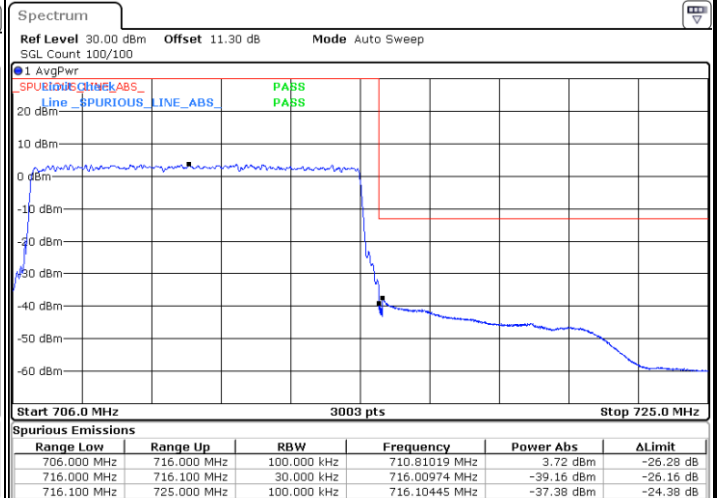
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



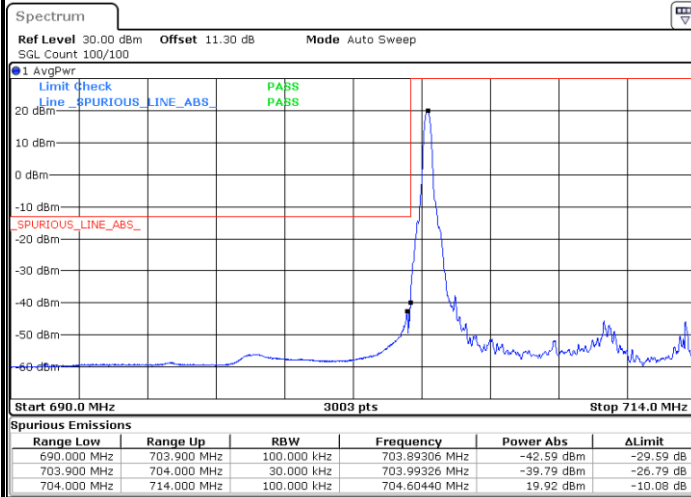
Highest Band Edge / Full RB



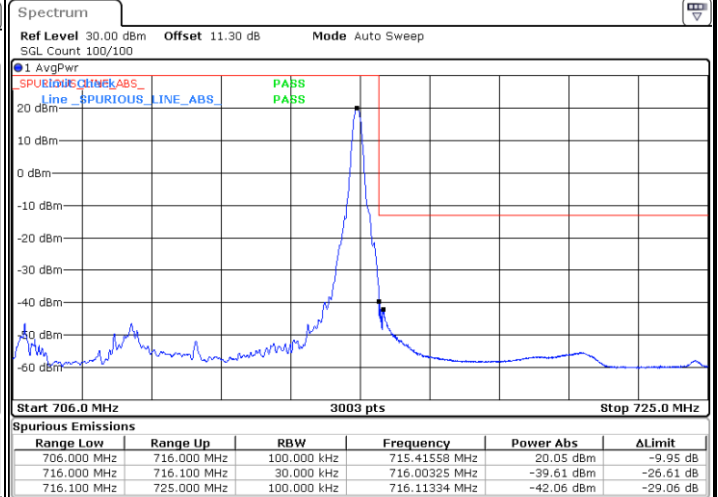


LTE Band 17 / 10MHz / 16QAM

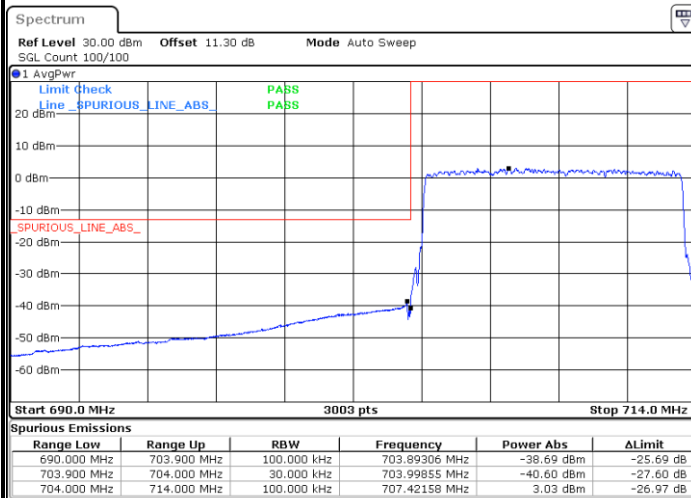
Lowest Band Edge / 1 RB



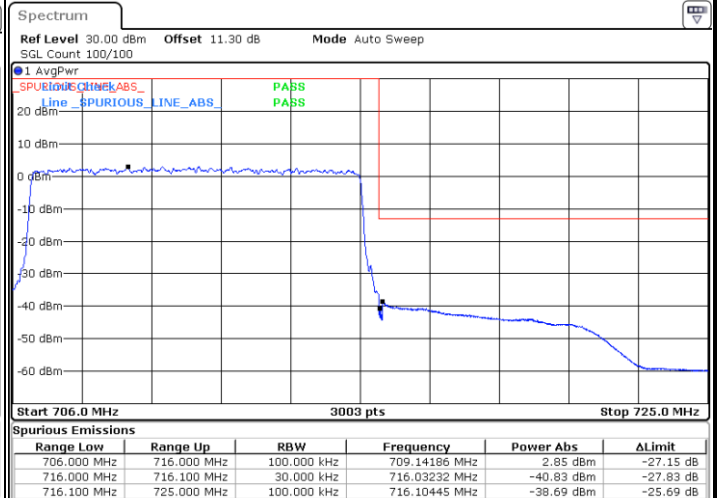
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



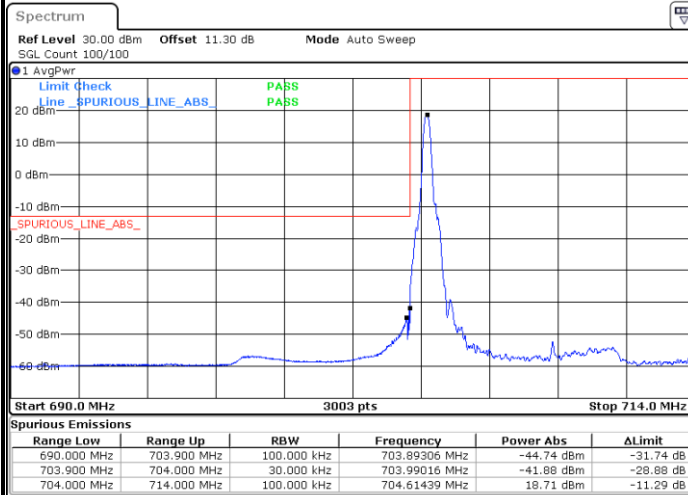
Highest Band Edge / Full RB



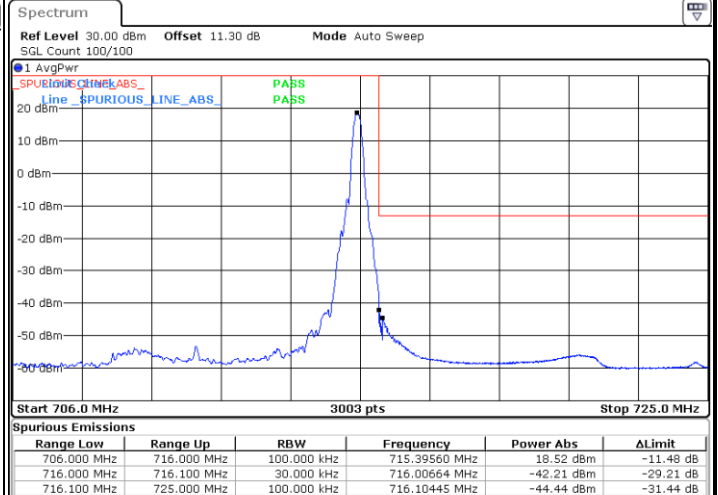


LTE Band 17 / 10MHz / 64QAM

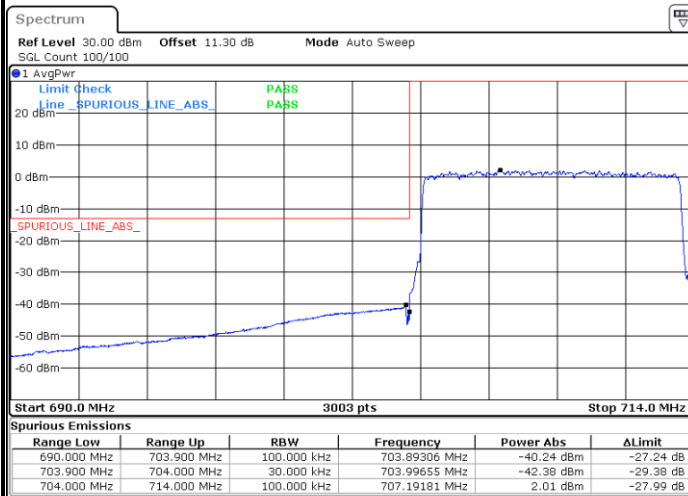
Lowest Band Edge / 1 RB



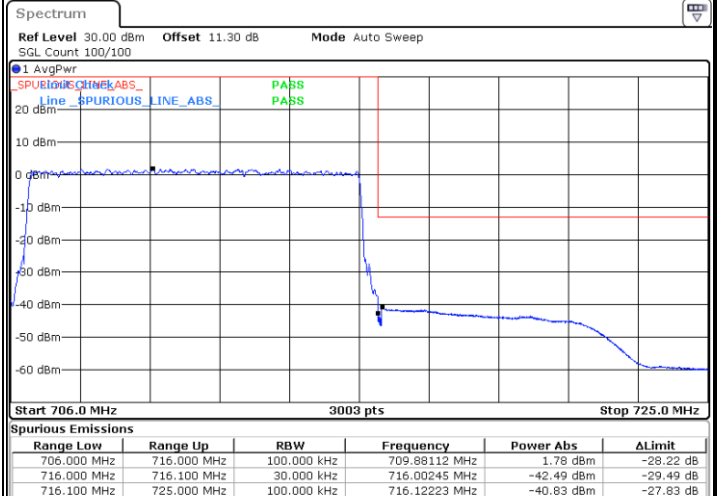
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

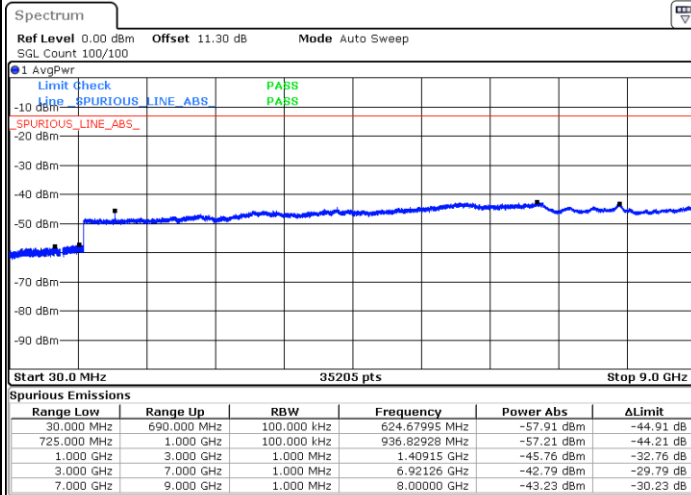




Conducted Spurious Emission

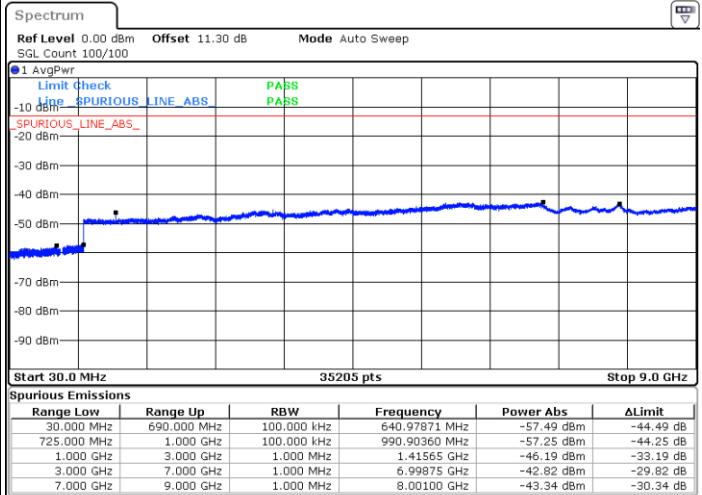
LTE Band 17 / 5MHz

Lowest Channel / QPSK



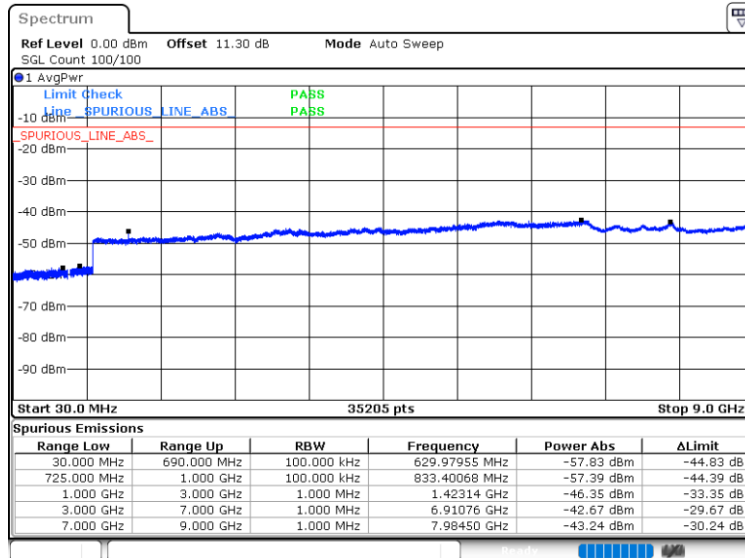
Date: 16.JAN.2021 23:33:30

Middle Channel / QPSK



Date: 16.JAN.2021 23:34:43

Highest Channel / QPSK



Date: 16.JAN.2021 23:37:56