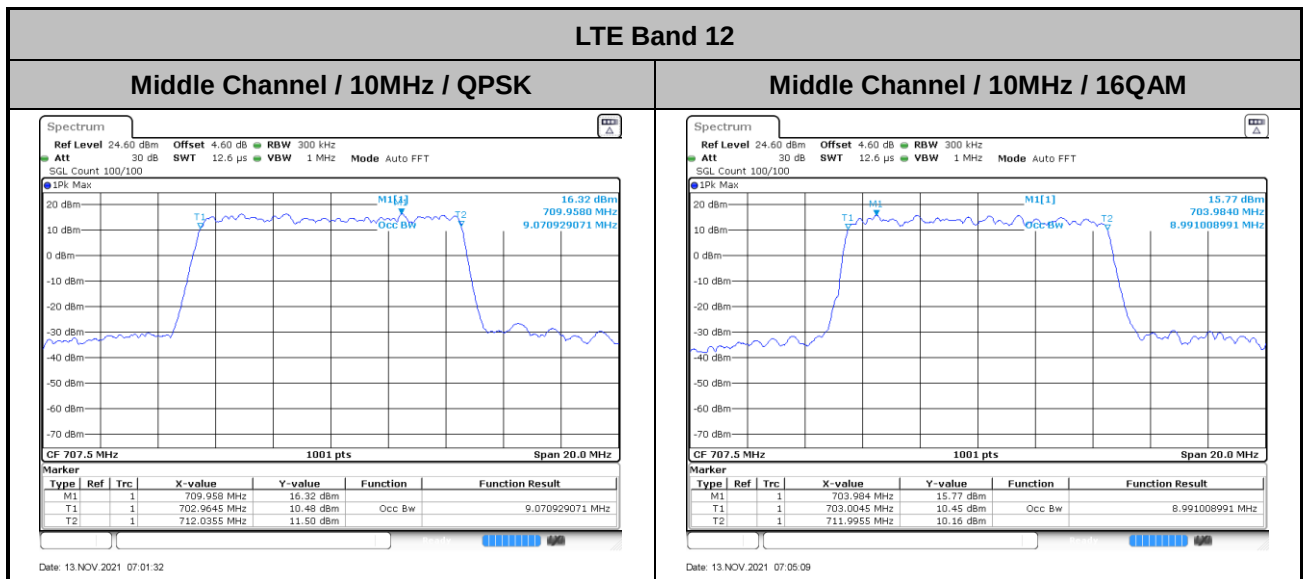




Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	8.99

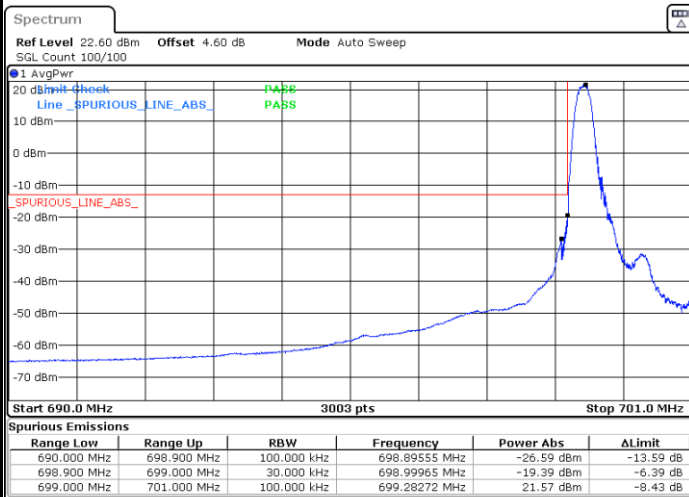




Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

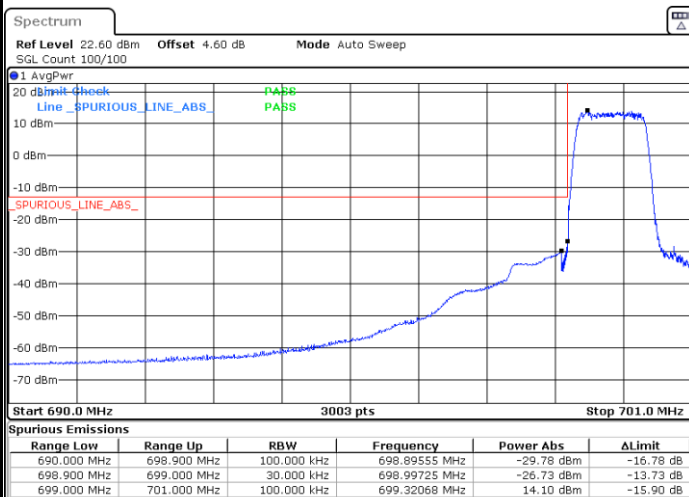
Lowest Band Edge / 1RB



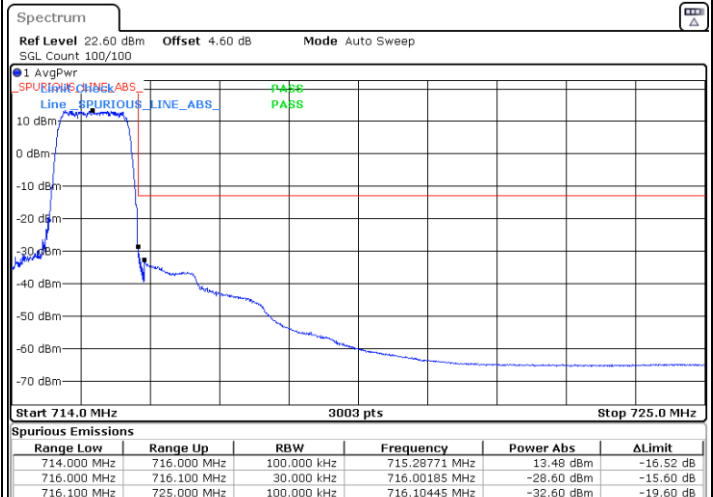
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 16QAM

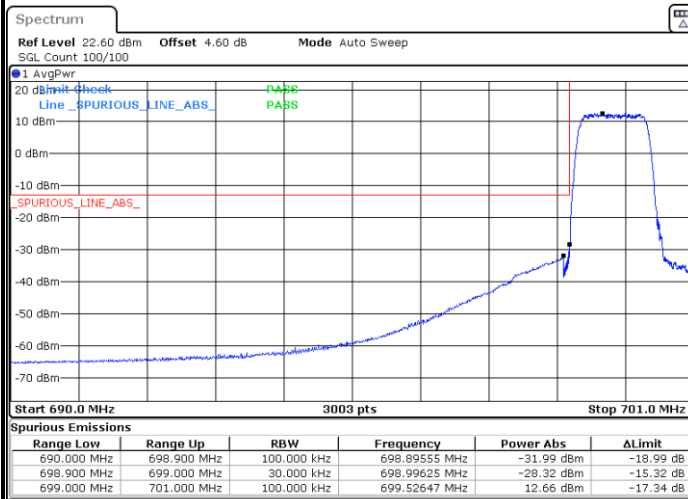
Lowest Band Edge / 1 RB



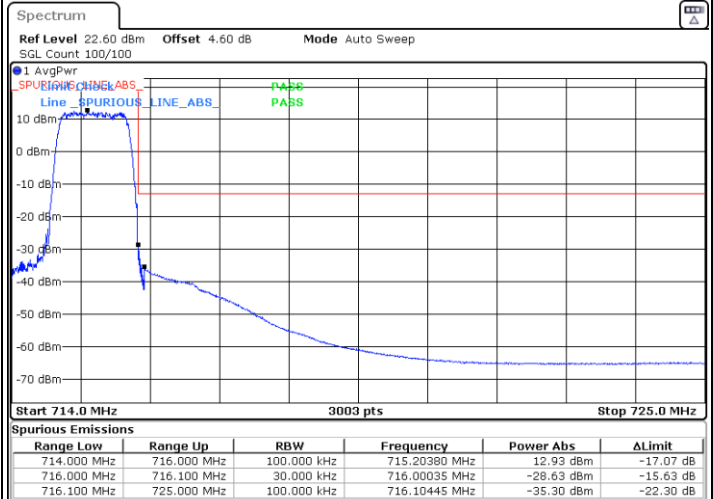
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



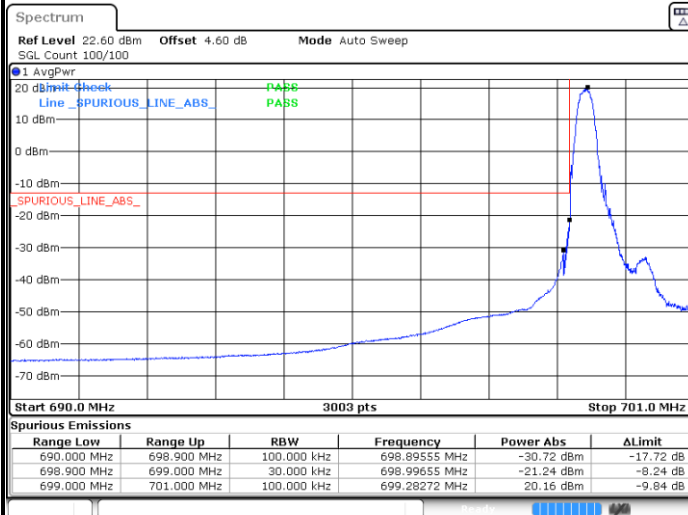
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 64QAM

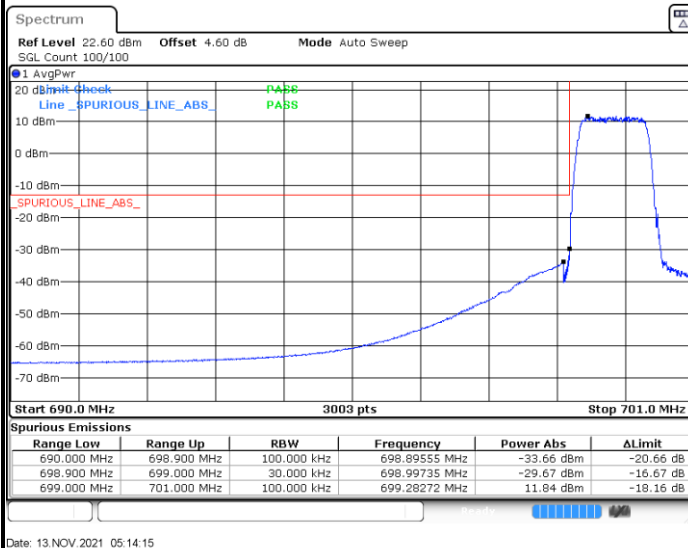
Lowest Band Edge / 1 RB



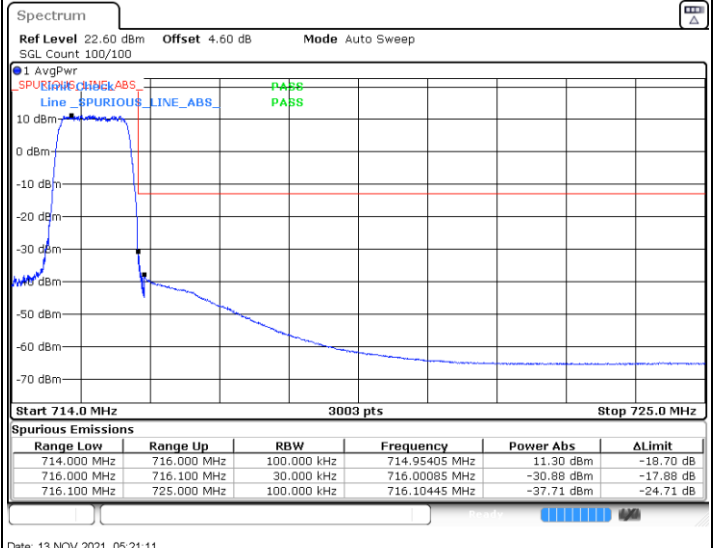
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



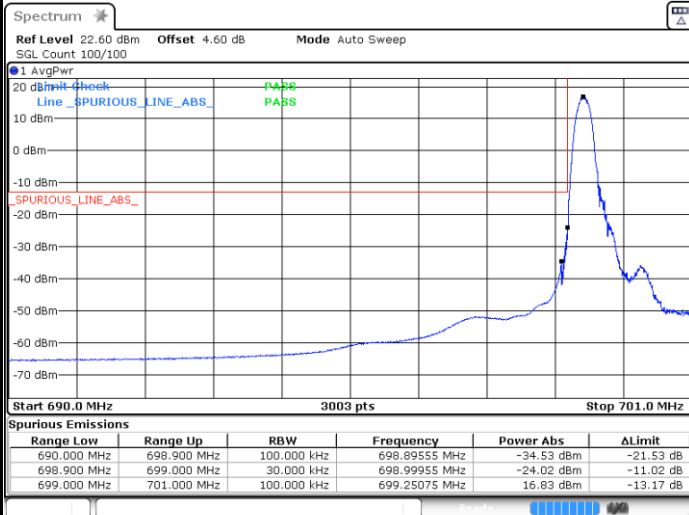
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 256QAM

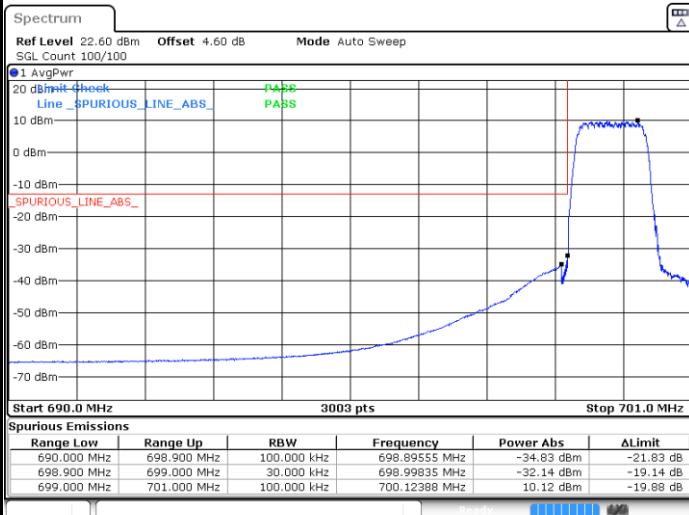
Lowest Band Edge / 1 RB



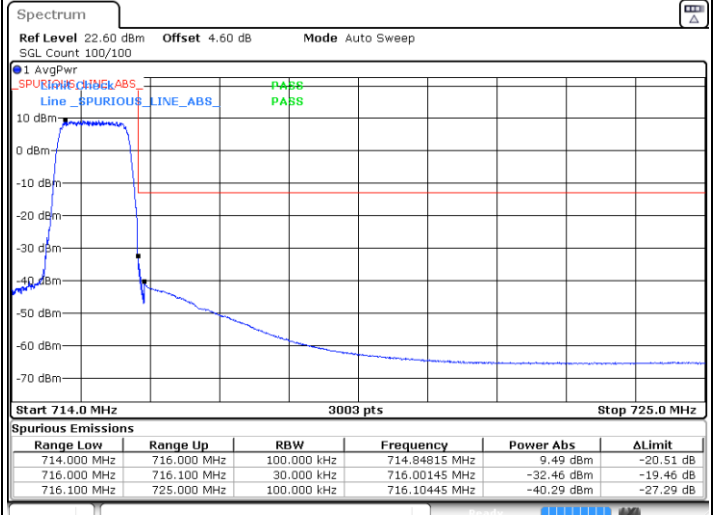
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



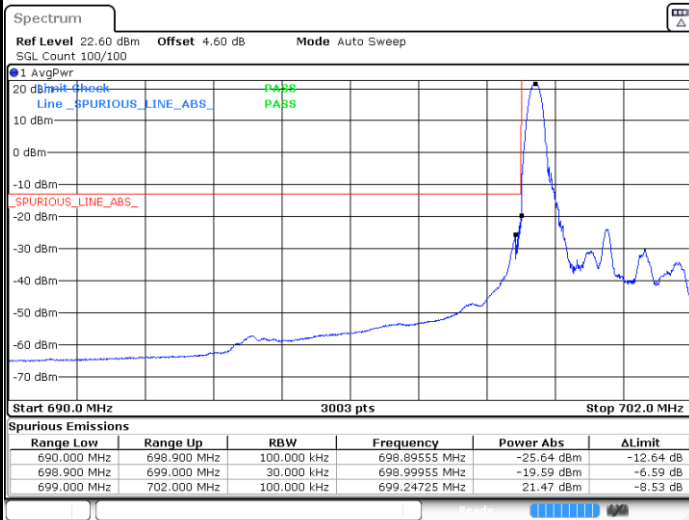
Highest Band Edge / Full RB



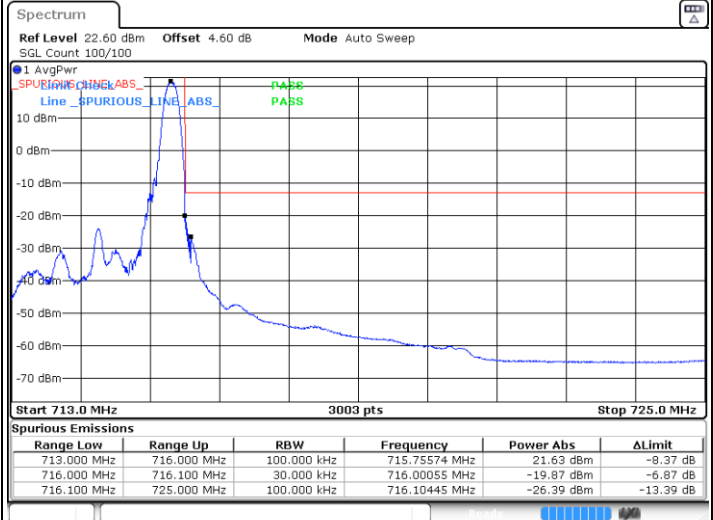


LTE Band 12 / 3MHz / QPSK

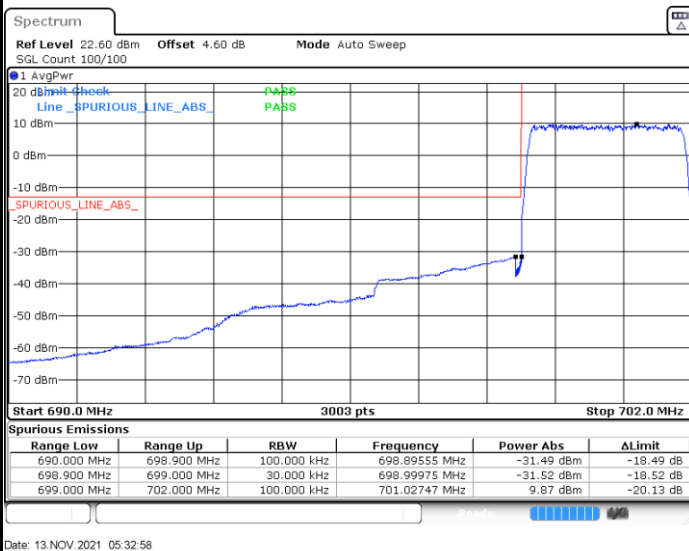
Lowest Band Edge / 1RB



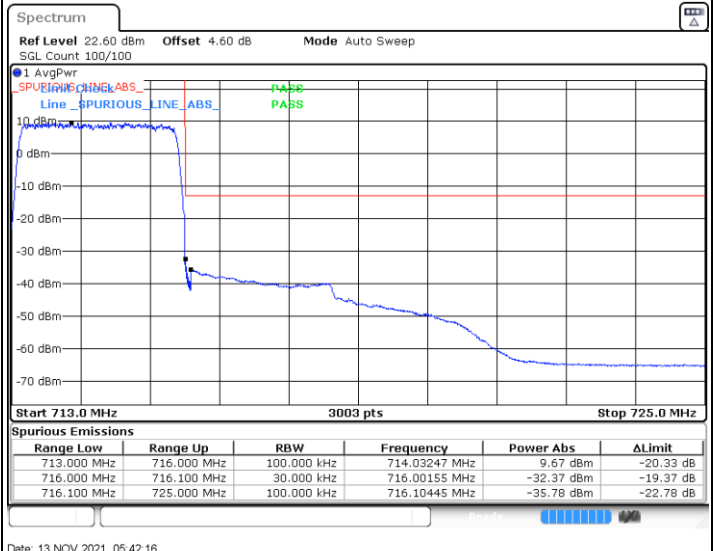
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



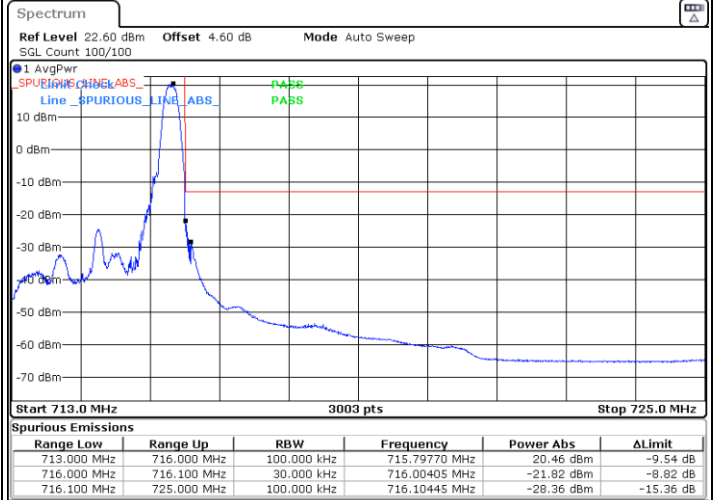


LTE Band 12 / 3MHz / 16QAM

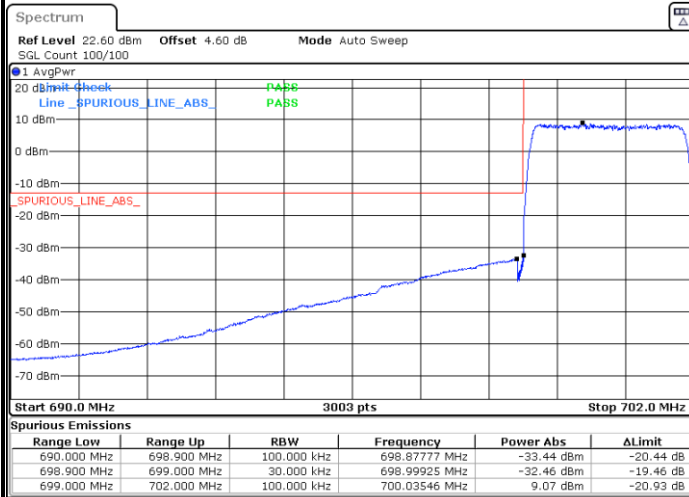
Lowest Band Edge / 1 RB



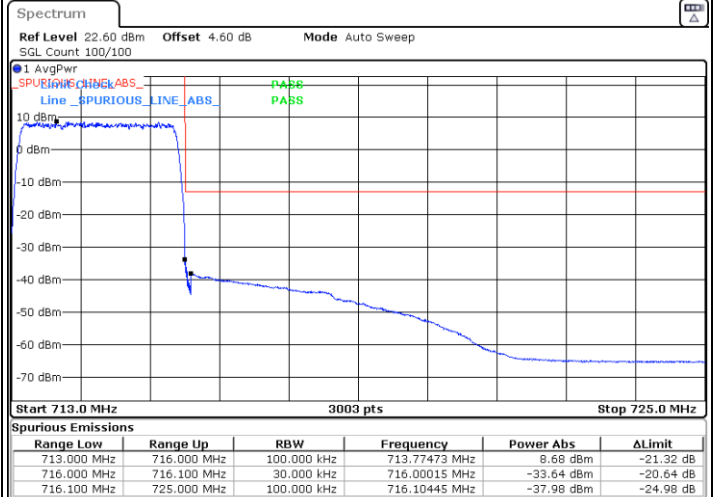
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



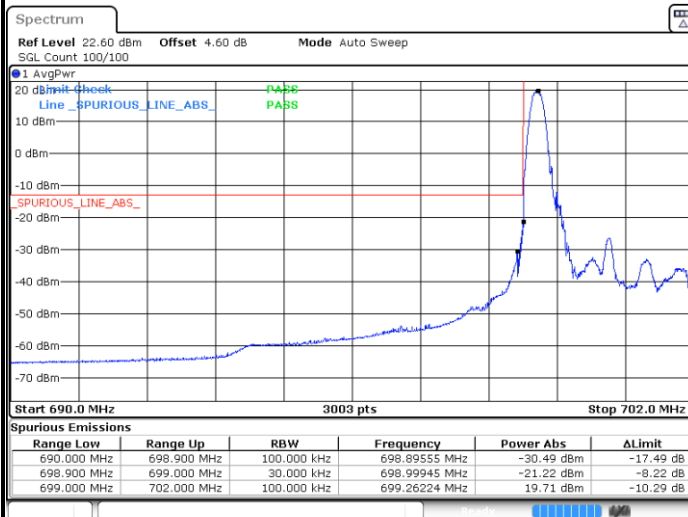
Highest Band Edge / Full RB



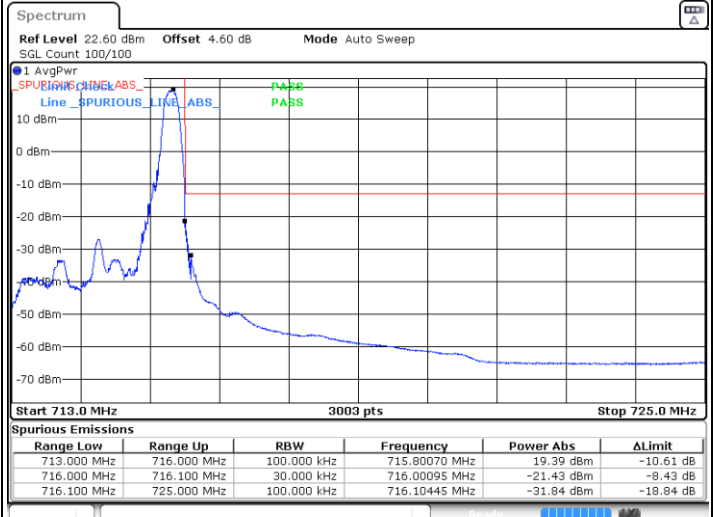


LTE Band 12 / 3MHz / 64QAM

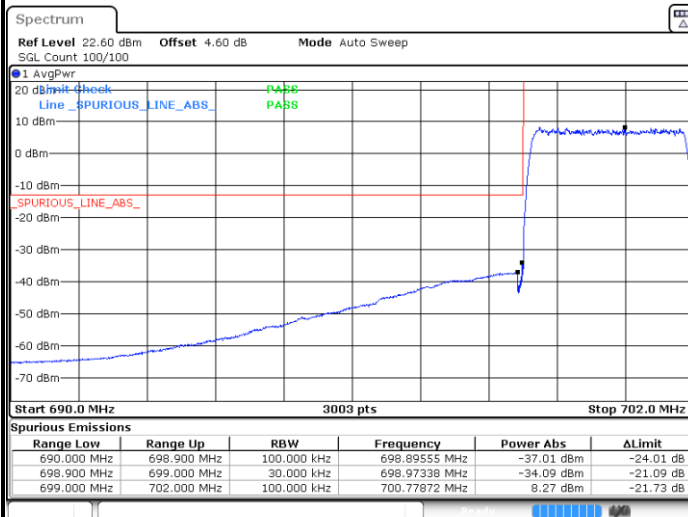
Lowest Band Edge / 1 RB



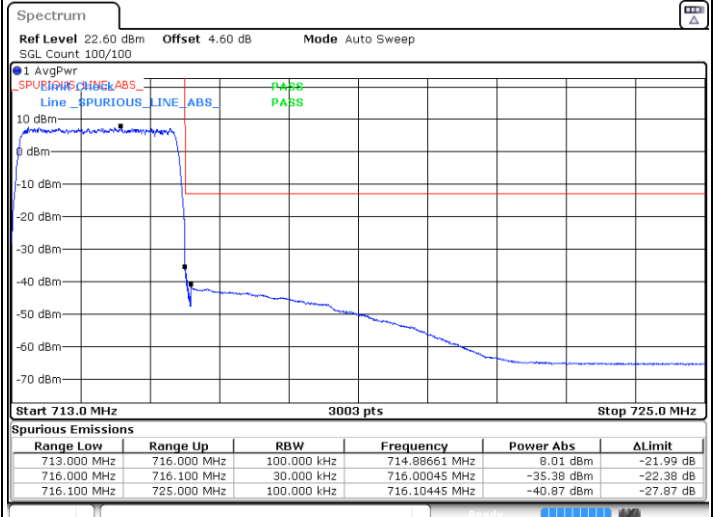
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



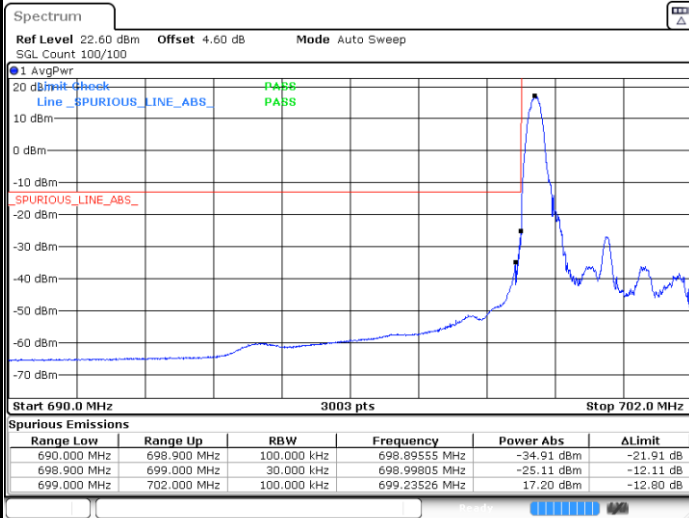
Highest Band Edge / Full RB



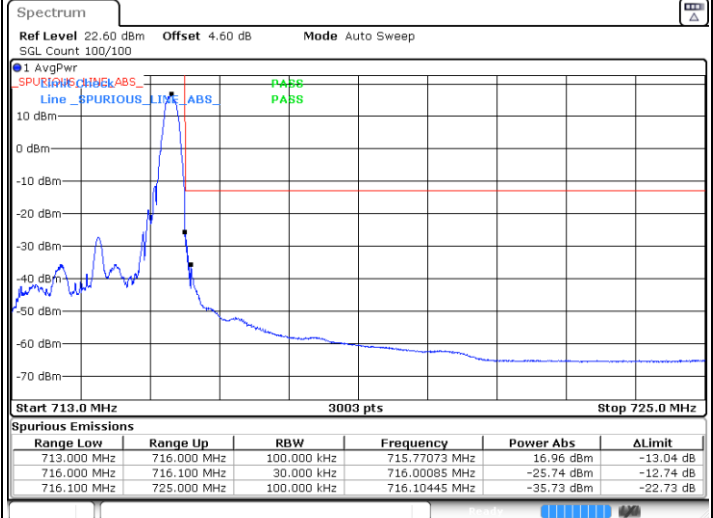


LTE Band 12 / 3MHz / 256QAM

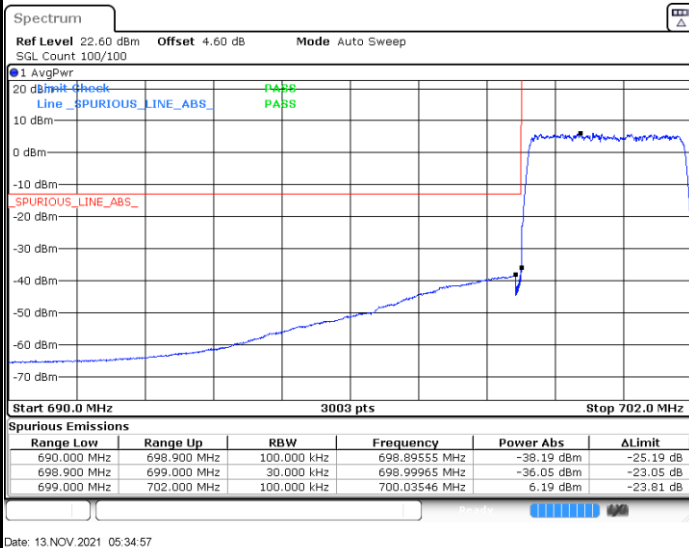
Lowest Band Edge / 1 RB



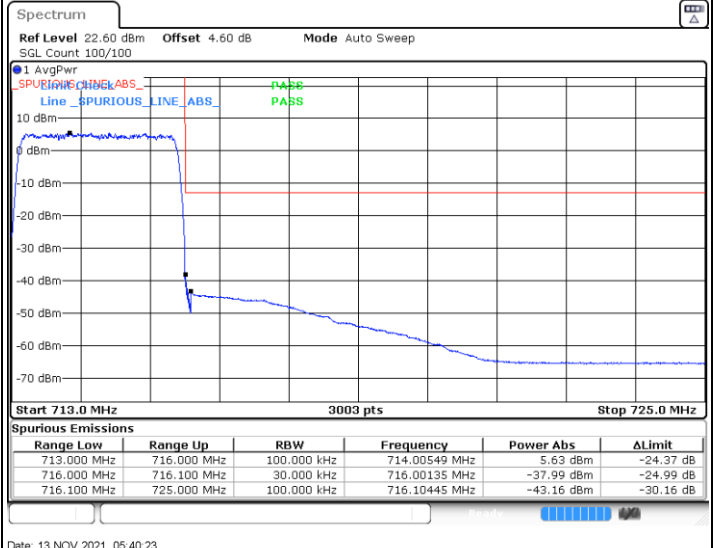
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



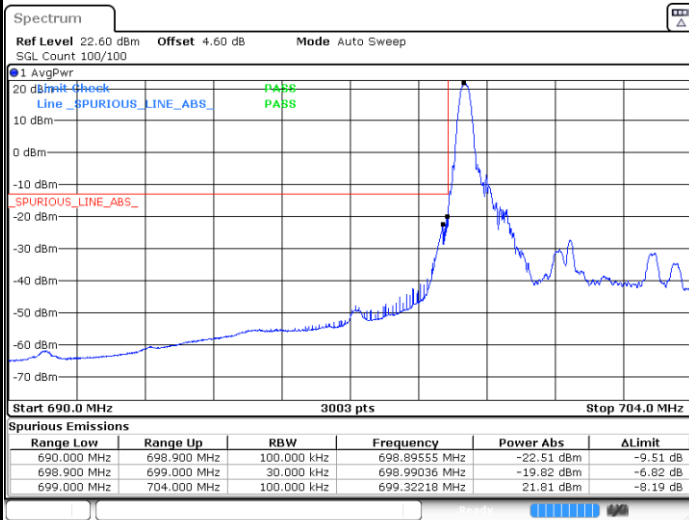
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / QPSK

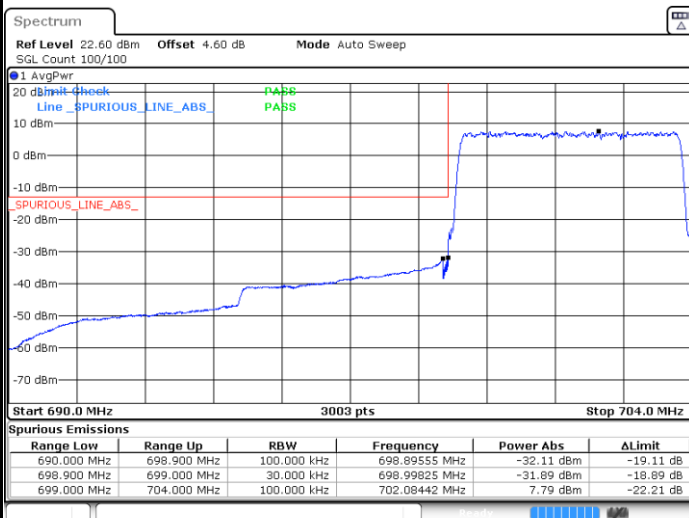
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



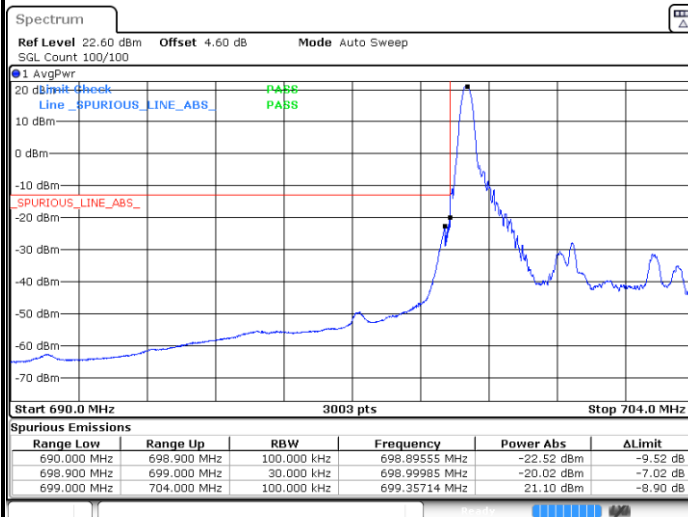
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 16QAM

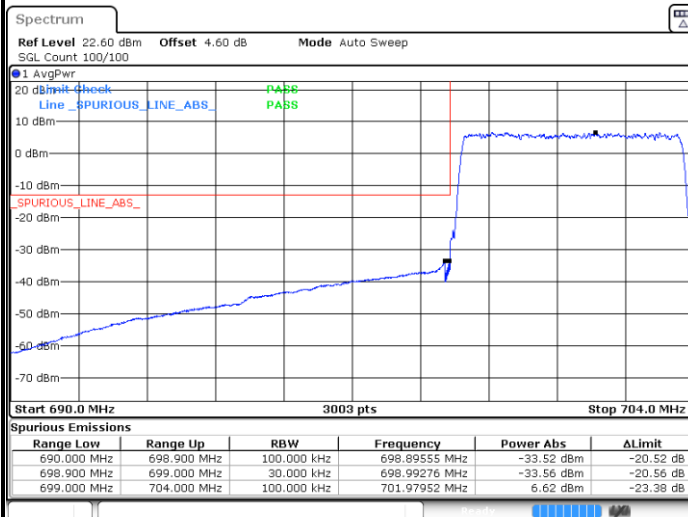
Lowest Band Edge / 1RB



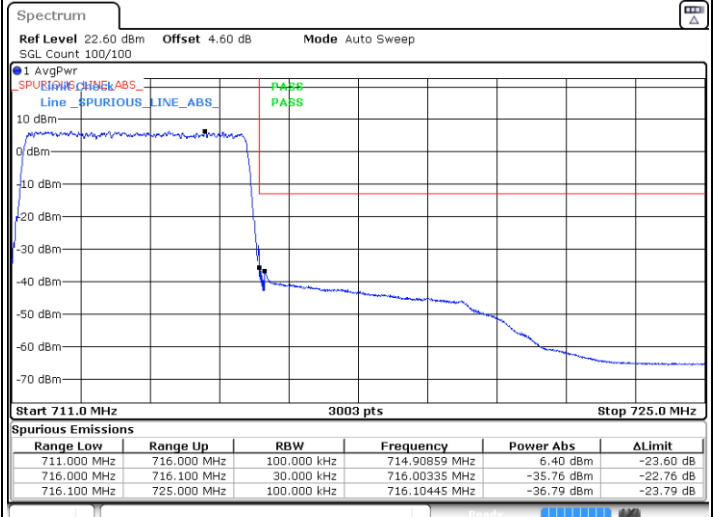
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



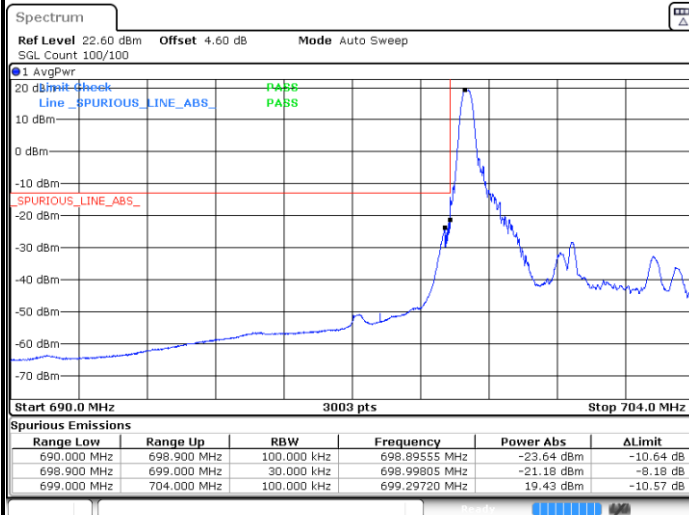
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 64QAM

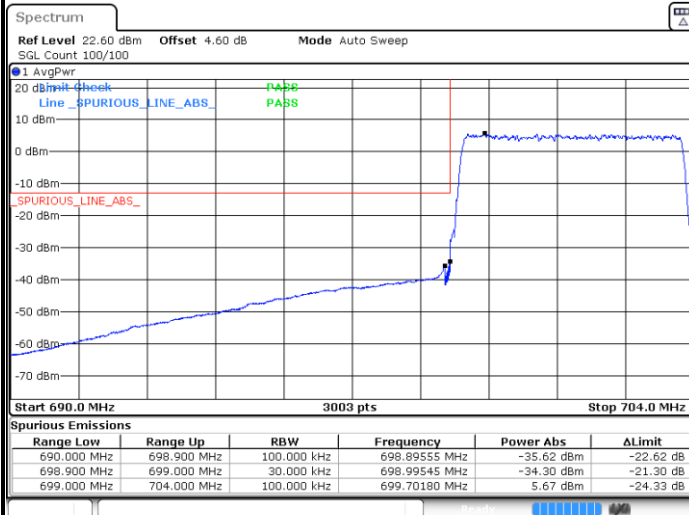
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



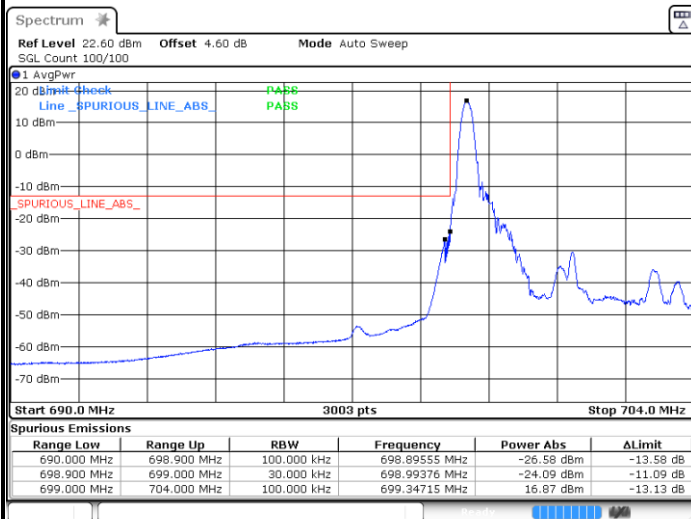
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / 256QAM

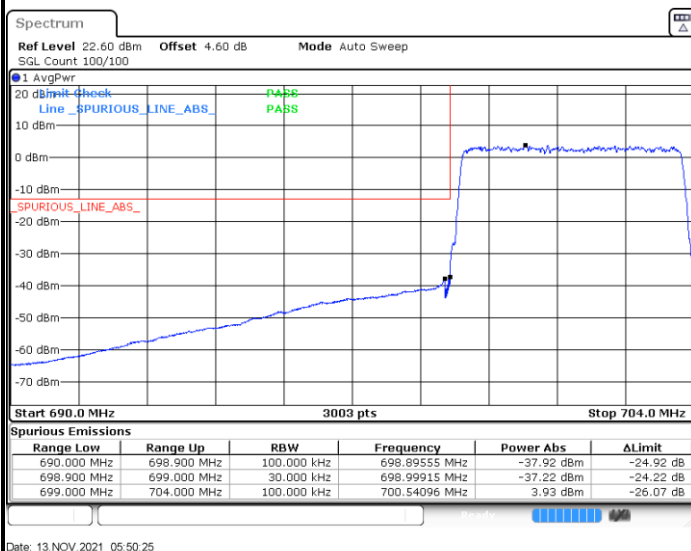
Lowest Band Edge / 1RB



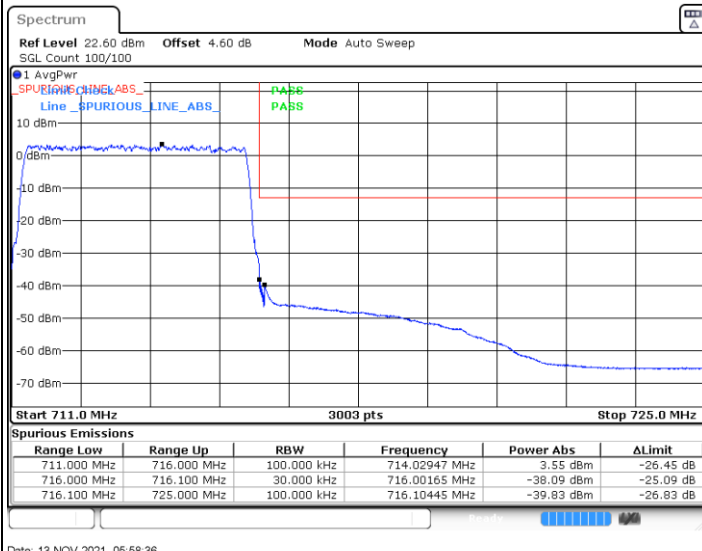
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



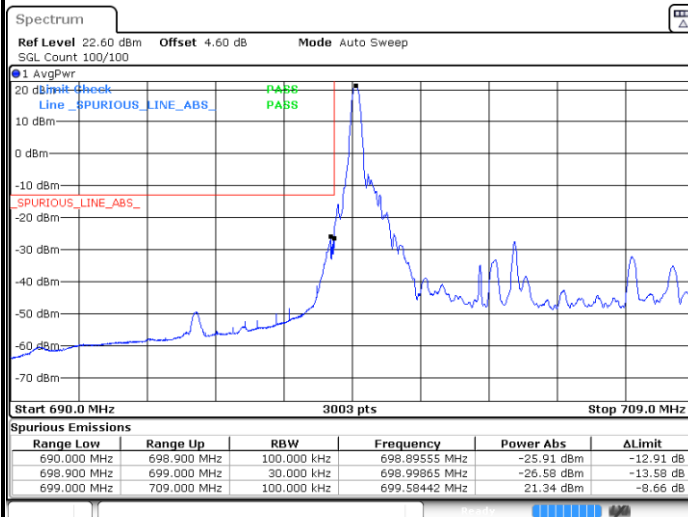
Highest Band Edge / Full RB



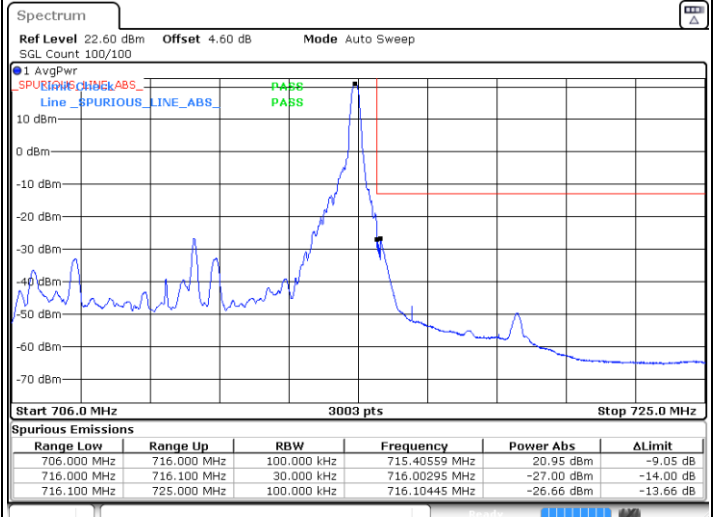


LTE Band 12 / 10MHz / QPSK

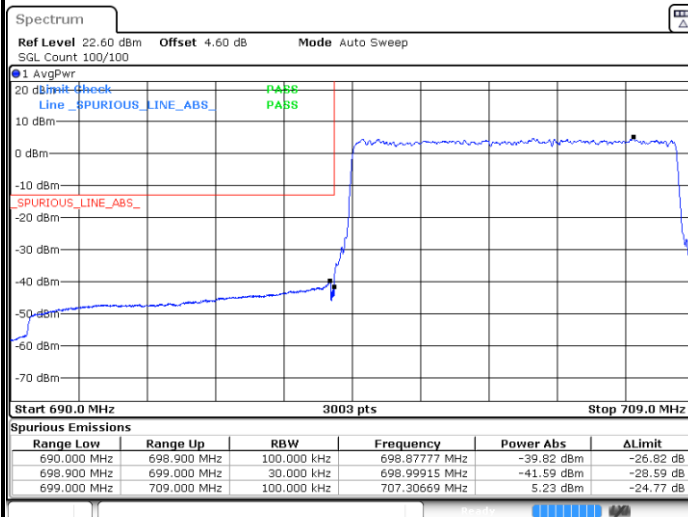
Lowest Band Edge / 1 RB



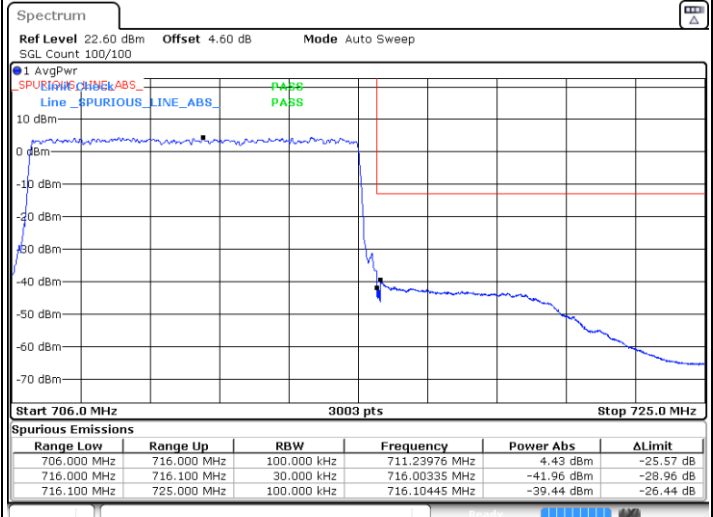
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



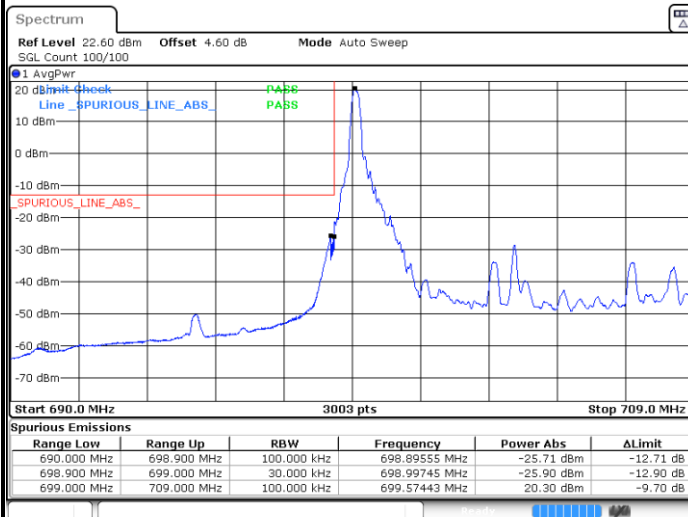
Highest Band Edge / Full RB



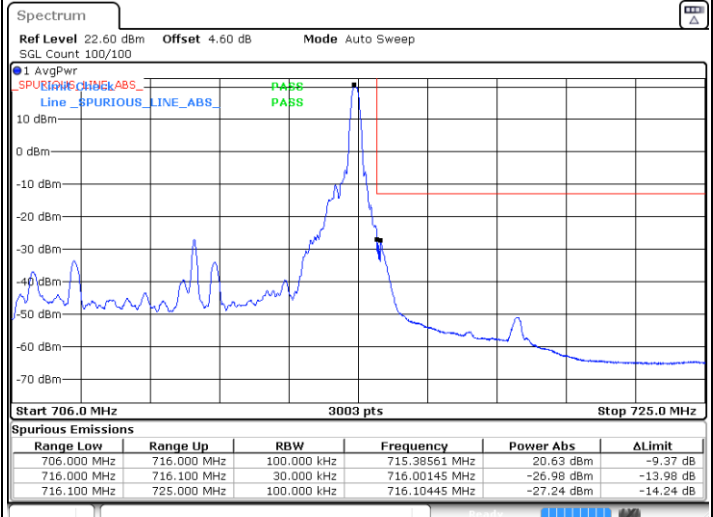


LTE Band 12 / 10MHz / 16QAM

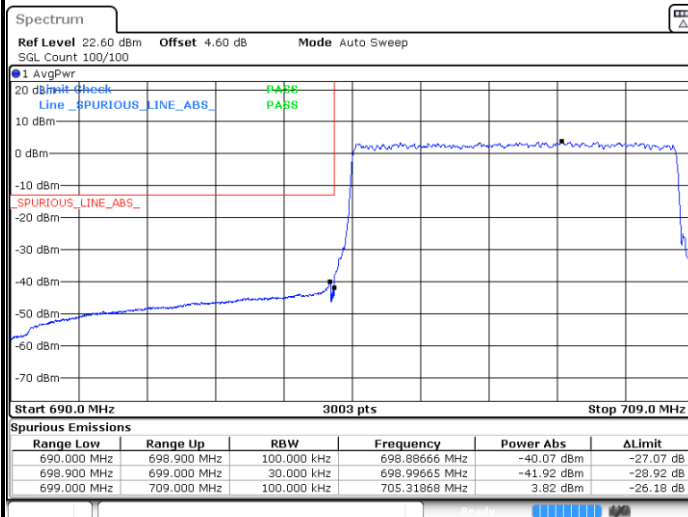
Lowest Band Edge / 1 RB



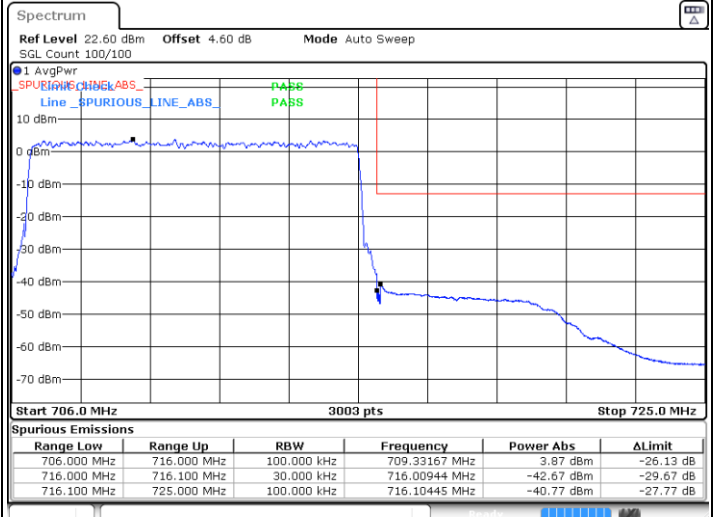
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



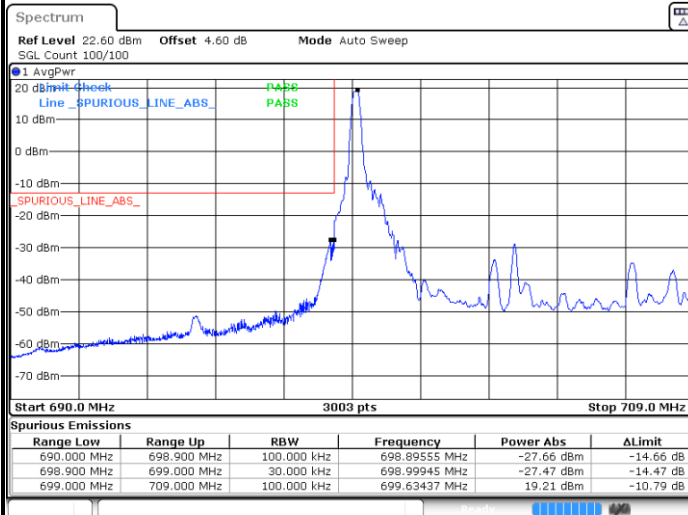
Highest Band Edge / Full RB



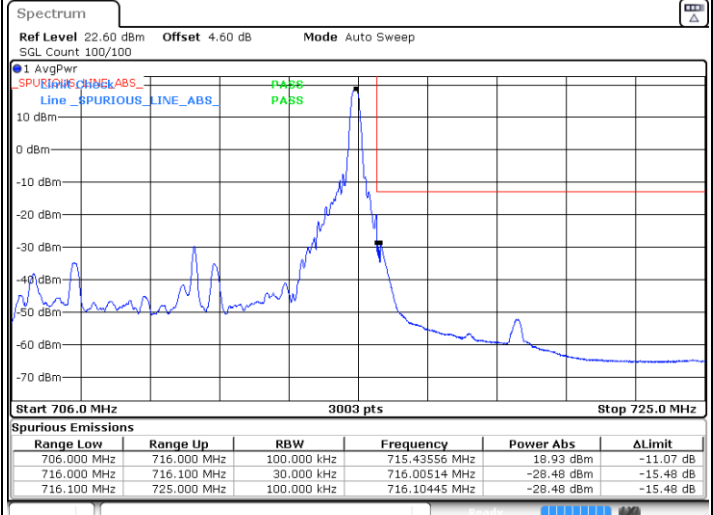


LTE Band 12 / 10MHz / 64QAM

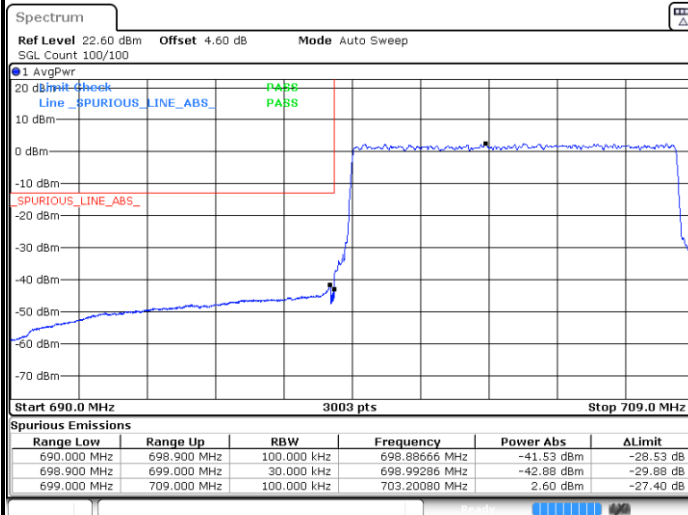
Lowest Band Edge / 1 RB



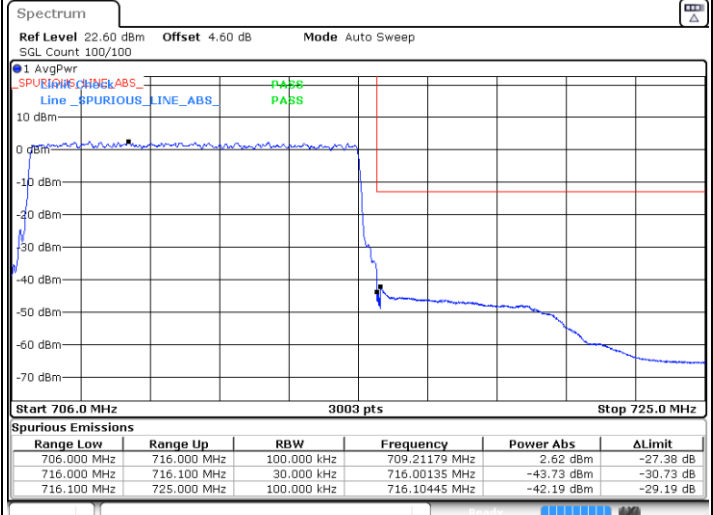
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



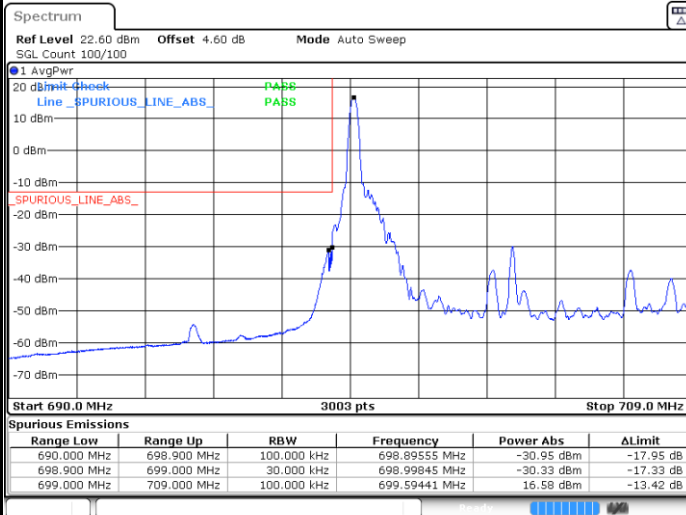
Highest Band Edge / Full RB



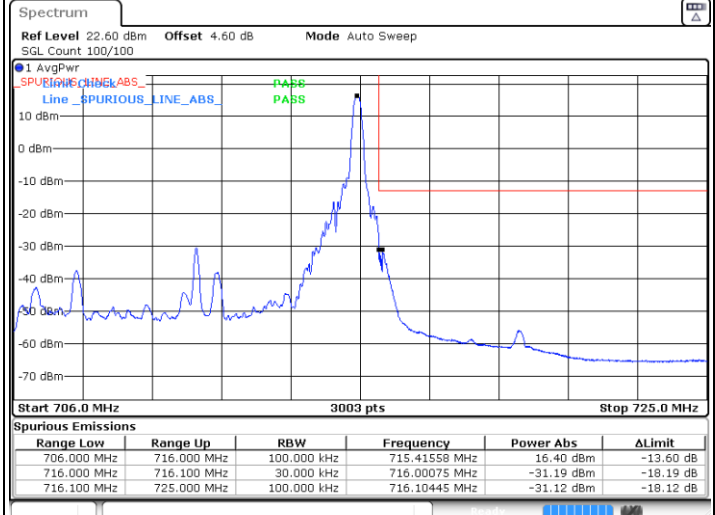


LTE Band 12 / 10MHz / 256QAM

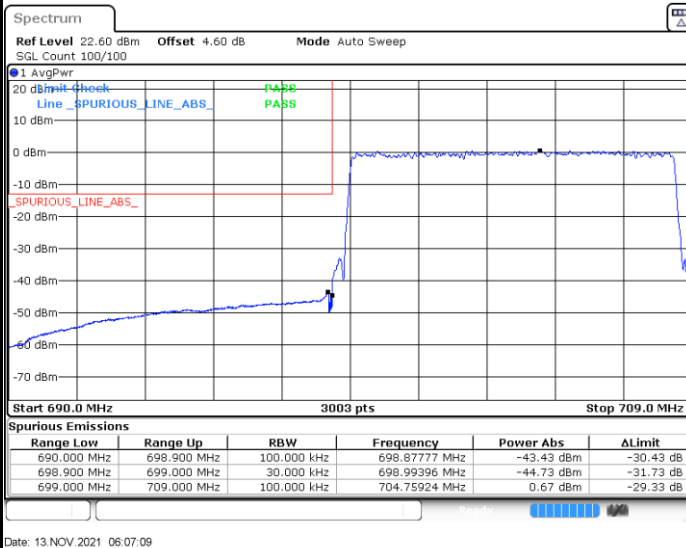
Lowest Band Edge / 1 RB



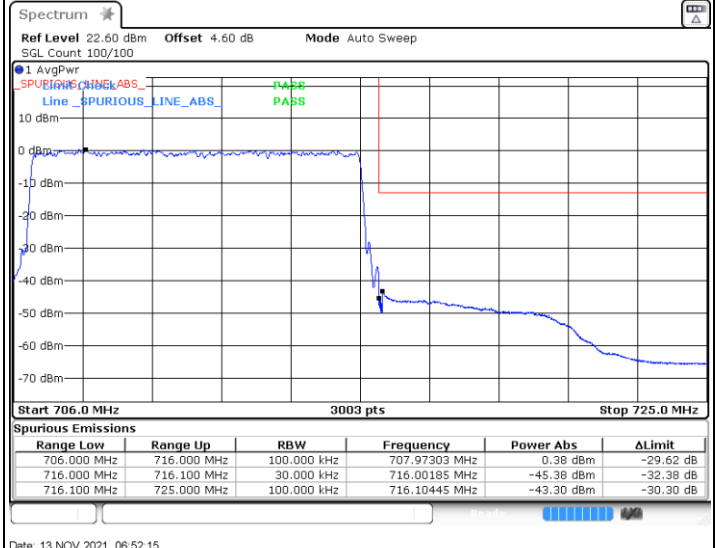
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

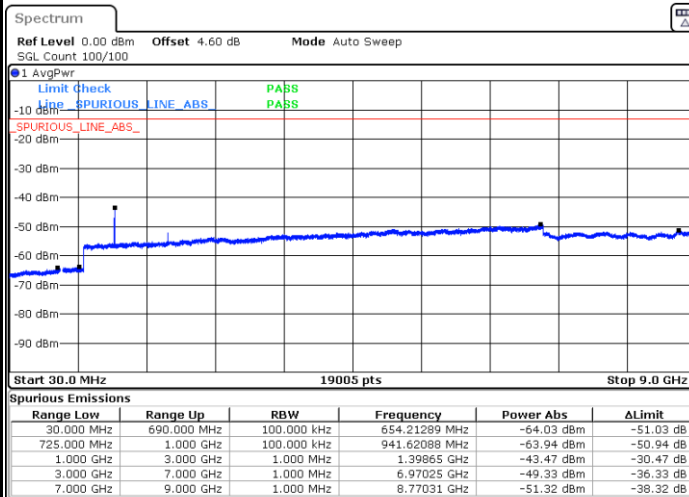




Conducted Spurious Emission

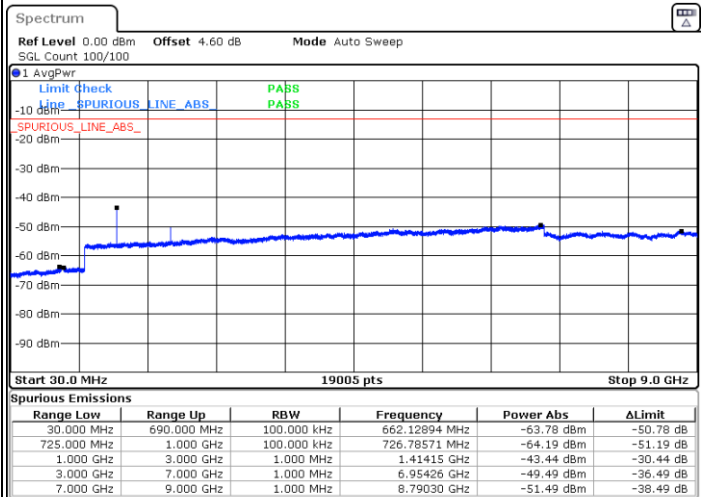
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



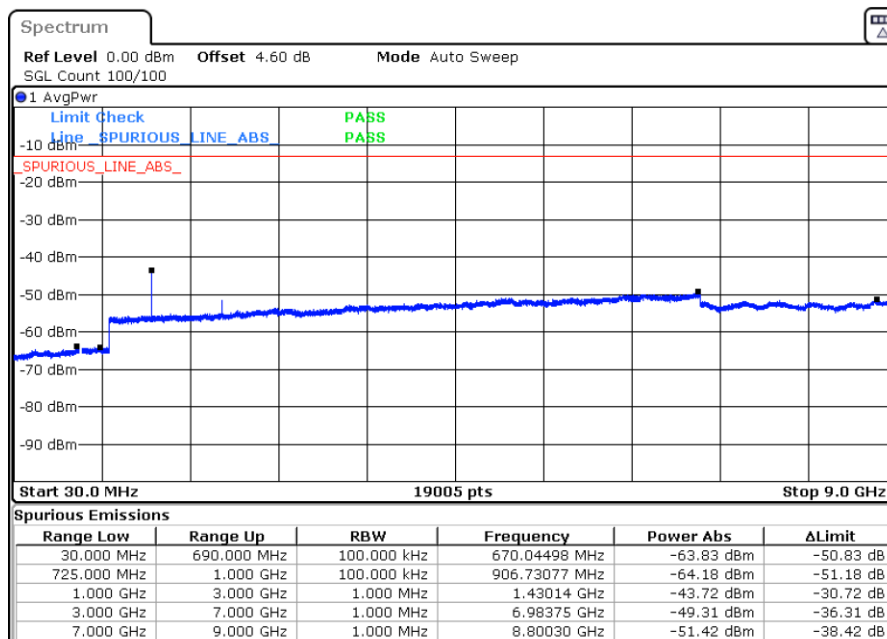
Date: 13.NOV.2021 05:10:52

Middle Channel / QPSK



Date: 13.NOV.2021 05:11:56

Highest Channel / QPSK

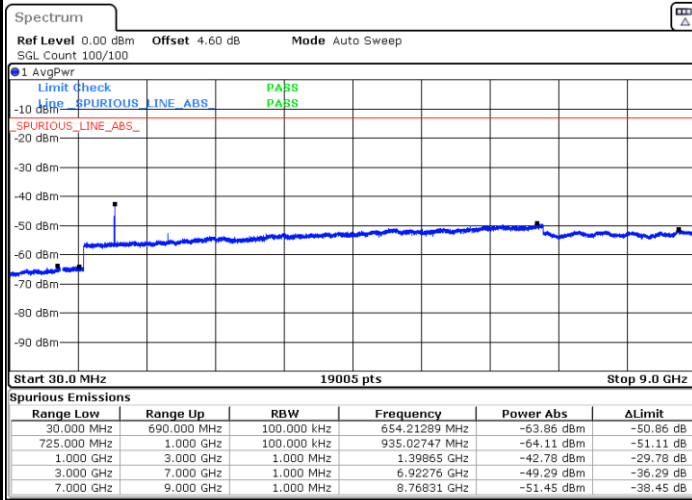


Date: 13.NOV.2021 05:22:51



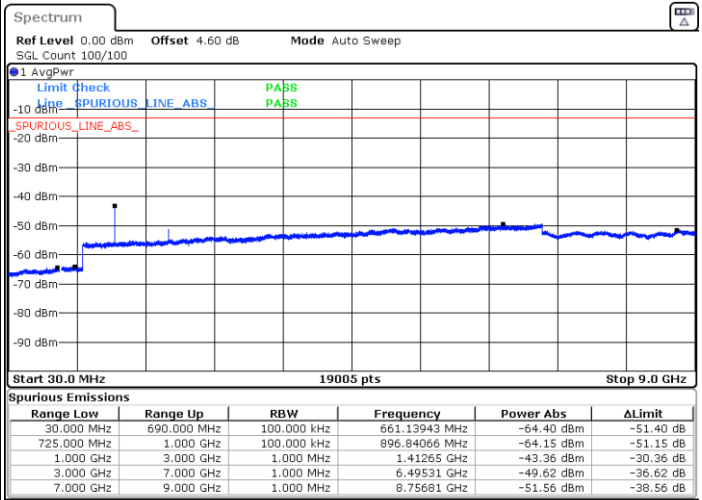
LTE Band 12 / 3MHz

Lowest Channel / QPSK



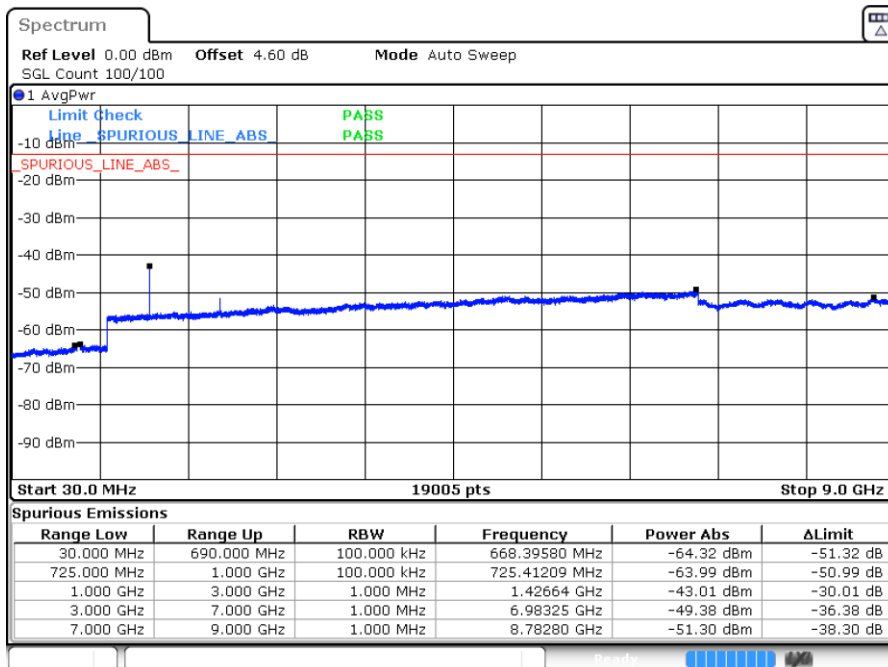
Date: 13 NOV. 2021 05:31:59

Middle Channel / QPSK



Date: 13 NOV. 2021 05:35:53

Highest Channel / QPSK

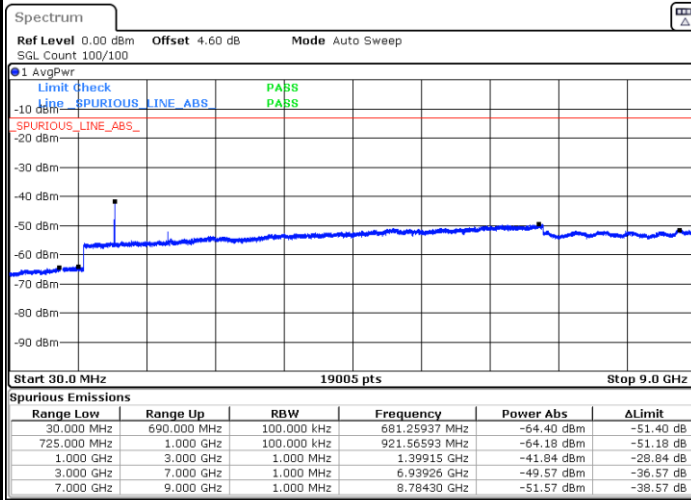


Date: 13 NOV. 2021 05:37:01



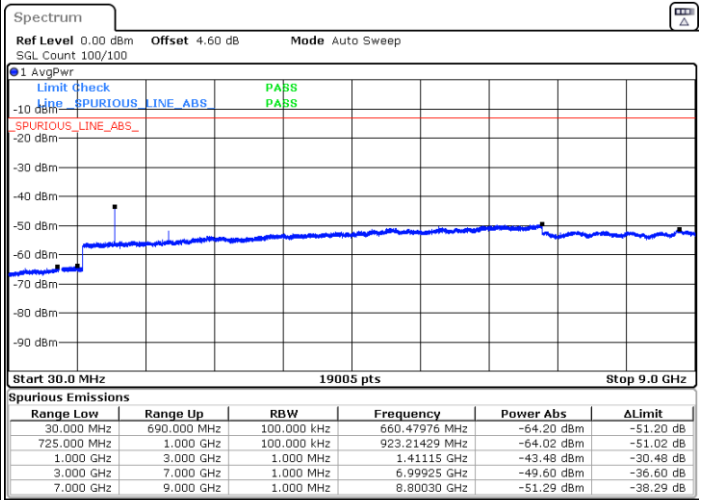
LTE Band 12 / 5MHz

Lowest Channel / QPSK



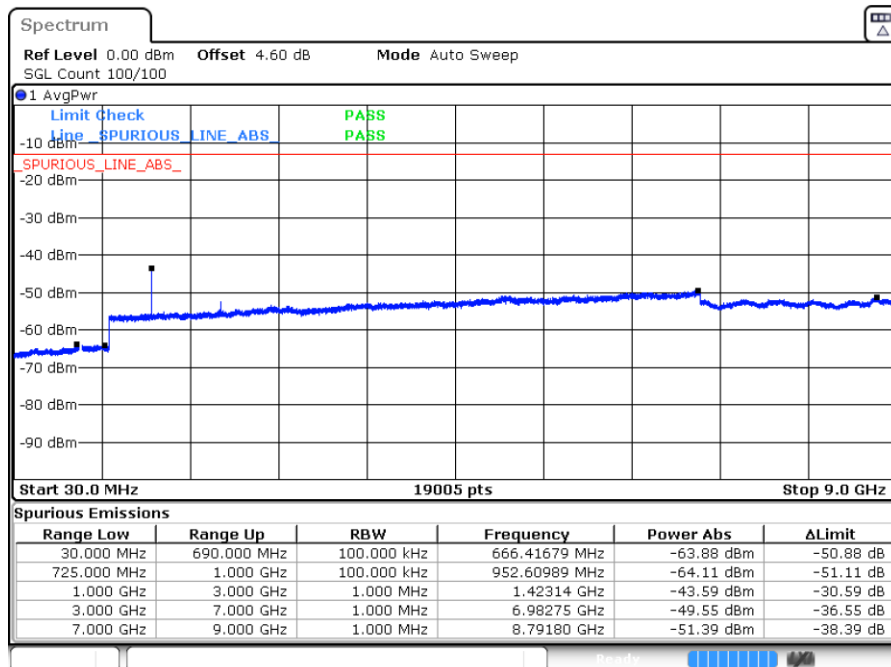
Date: 13 NOV 2021 05:44:34

Middle Channel / QPSK



Date: 13 NOV 2021 05:53:16

Highest Channel / QPSK

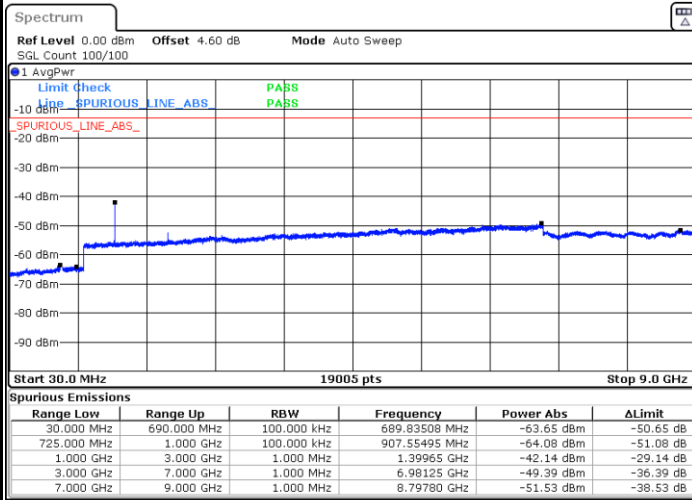


Date: 13 NOV 2021 06:01:13



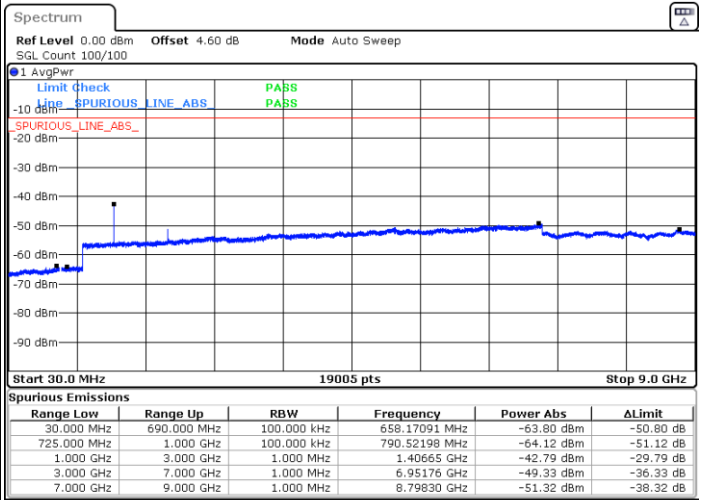
LTE Band 12 / 10MHz

Lowest Channel / QPSK



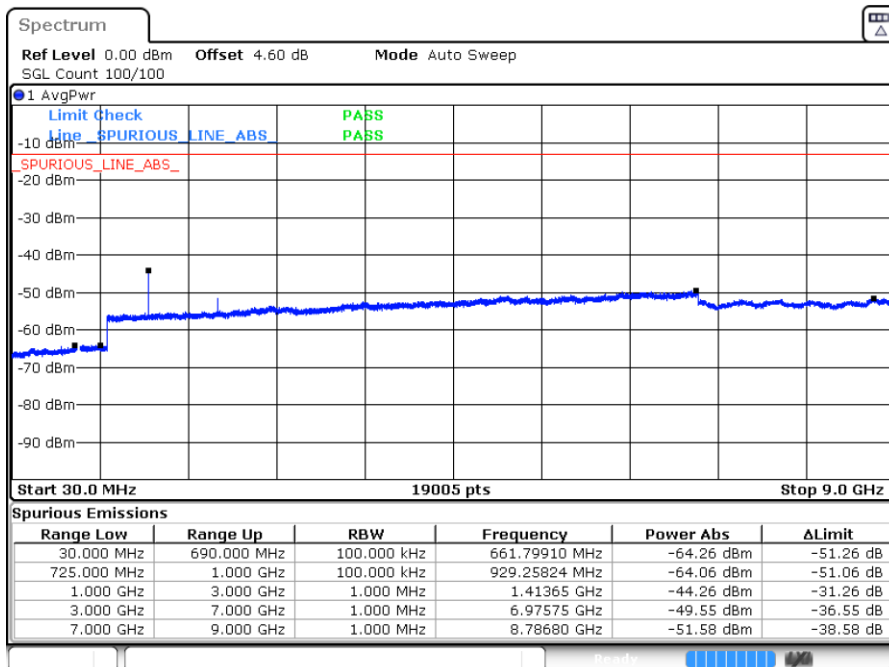
Date: 13.NOV.2021 06:03:17

Middle Channel / QPSK



Date: 13.NOV.2021 06:15:42

Highest Channel / QPSK



Date: 13.NOV.2021 06:41:04

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	0.0008	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0010	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =12 V ; Battery End Point (BEP) =12.8 V ; Maximum Voltage =13.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



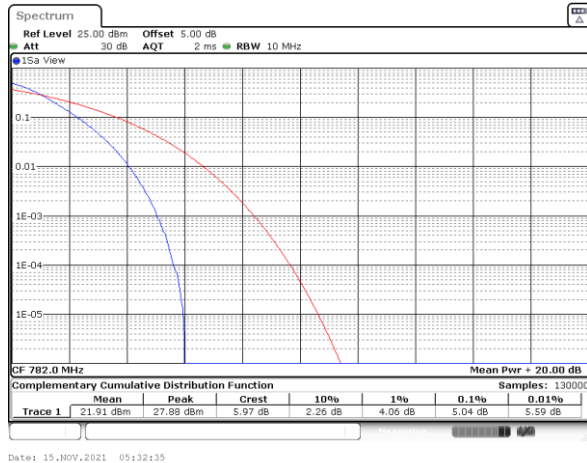
LTE Band 13

Peak-to-Average Ratio

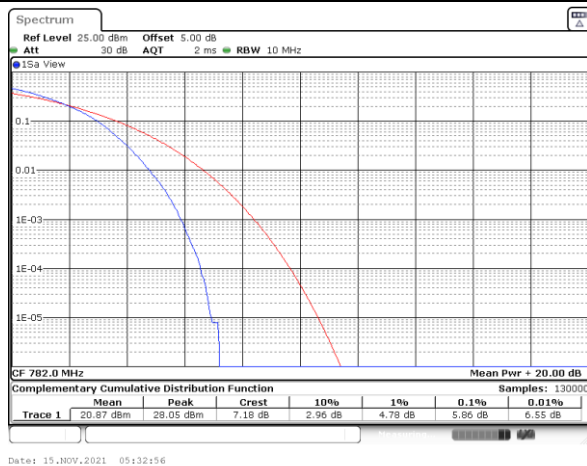
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.04	5.86	6.14	6.20	PASS

LTE Band 13 / 10MHz

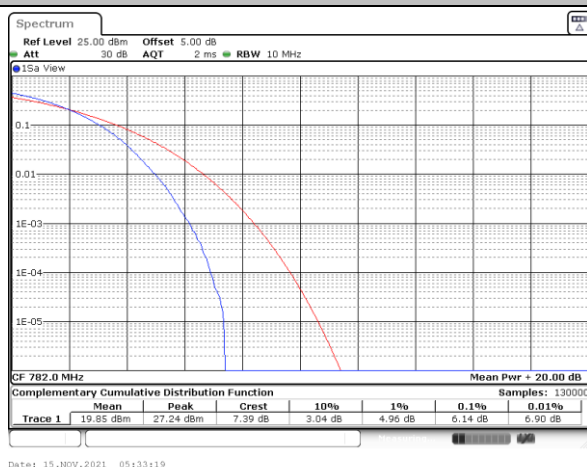
Middle Channel / Full RB/ QPSK

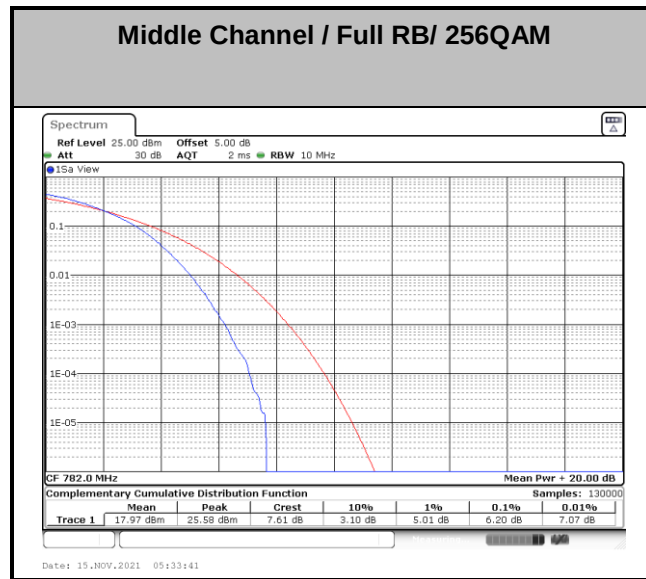


Middle Channel / Full RB/ 16QAM



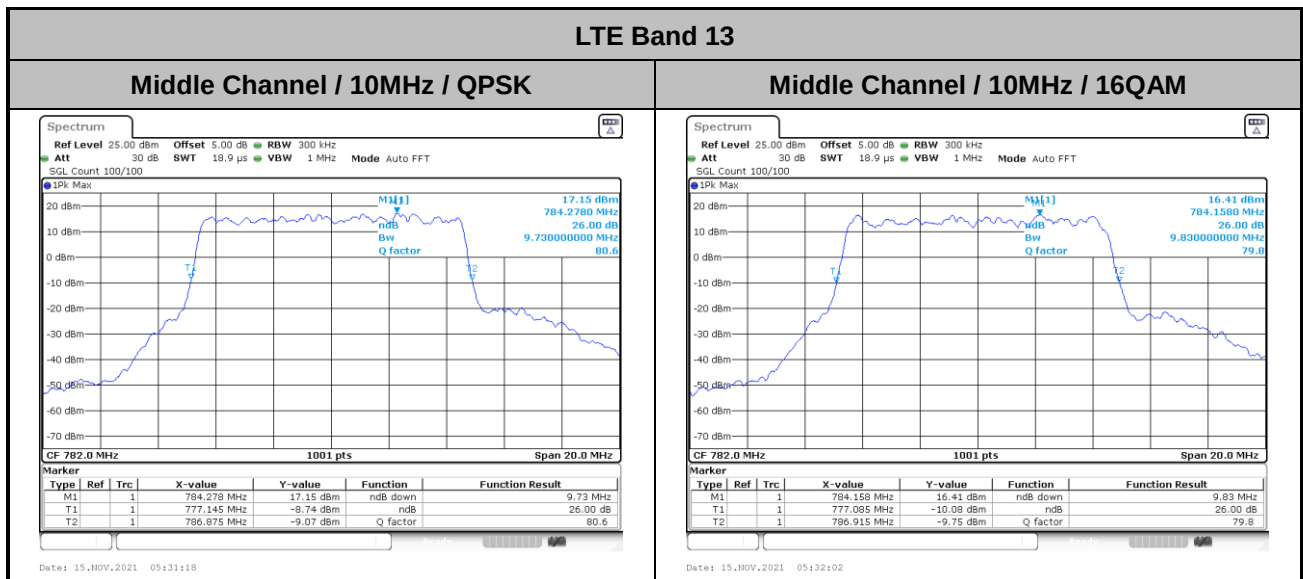
Middle Channel / Full RB/ 64QAM





**26dB Bandwidth**

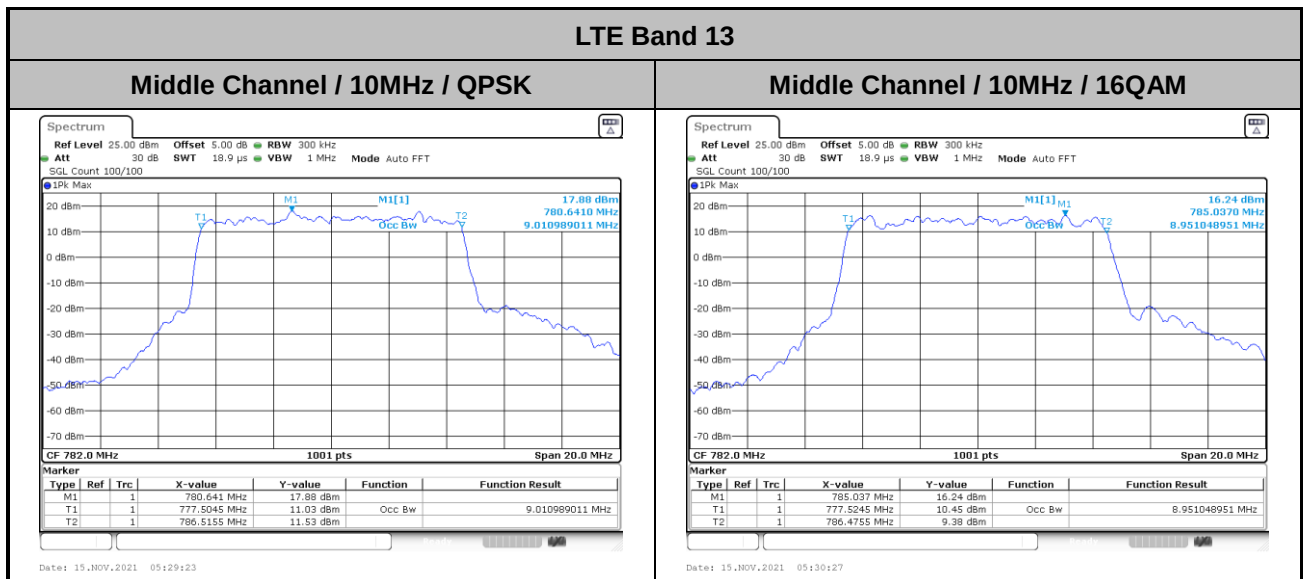
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.73	9.83





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	8.95

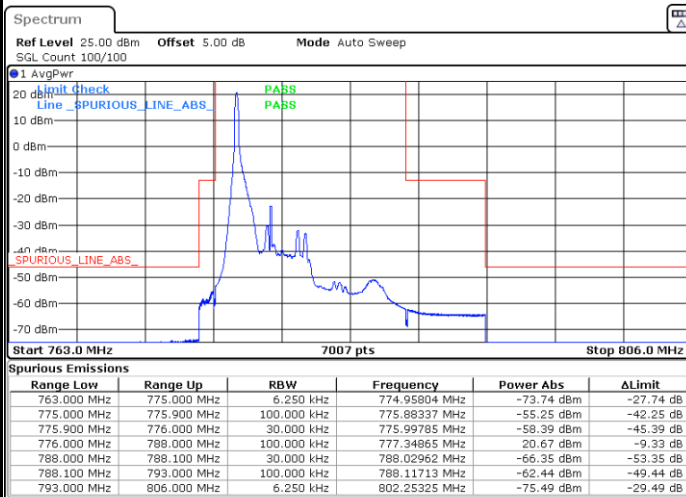




Conducted Band Edge

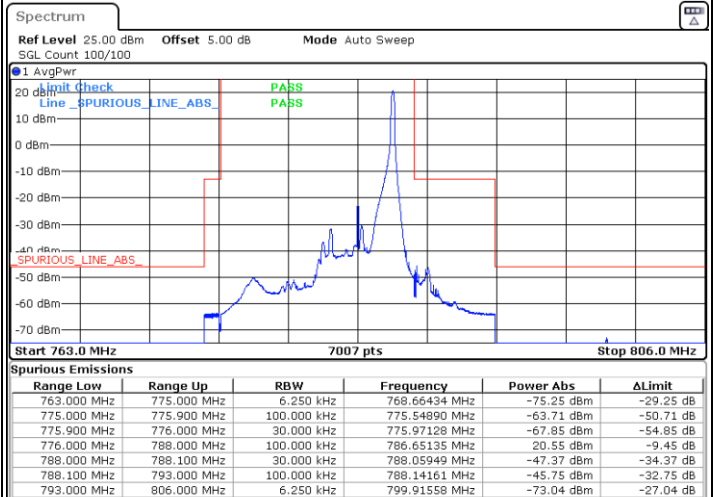
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



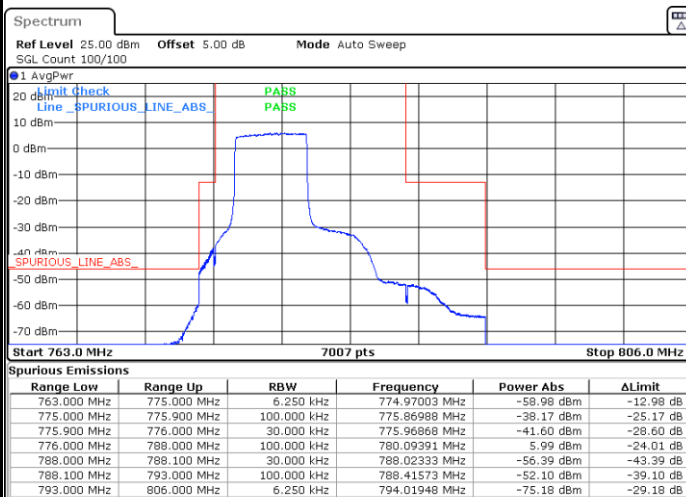
Date: 23.DEC.2021 23:07:38

Highest Band Edge / 1 RB



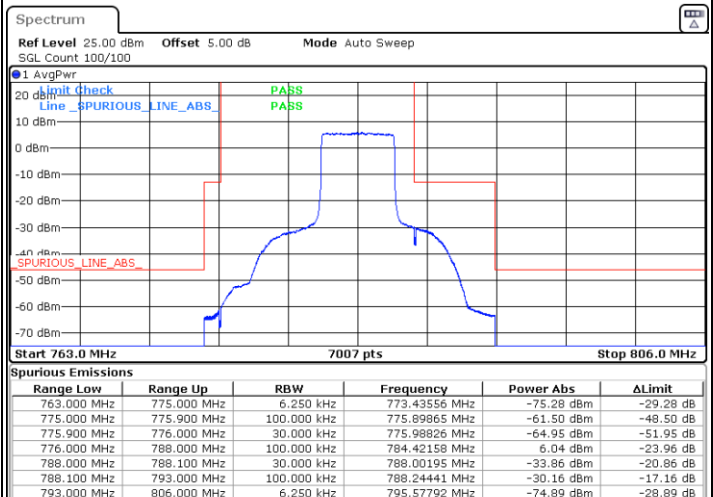
Date: 23.DEC.2021 23:22:47

Lowest Band Edge / Full RB



Date: 23.DEC.2021 23:15:09

Highest Band Edge / Full RB

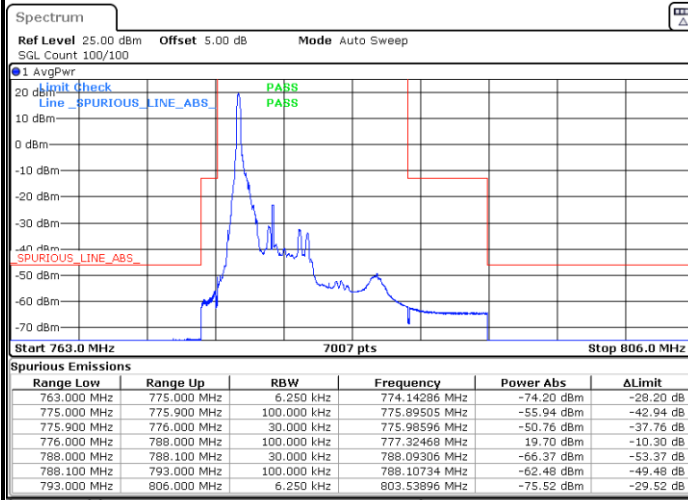


Date: 23.DEC.2021 23:30:19



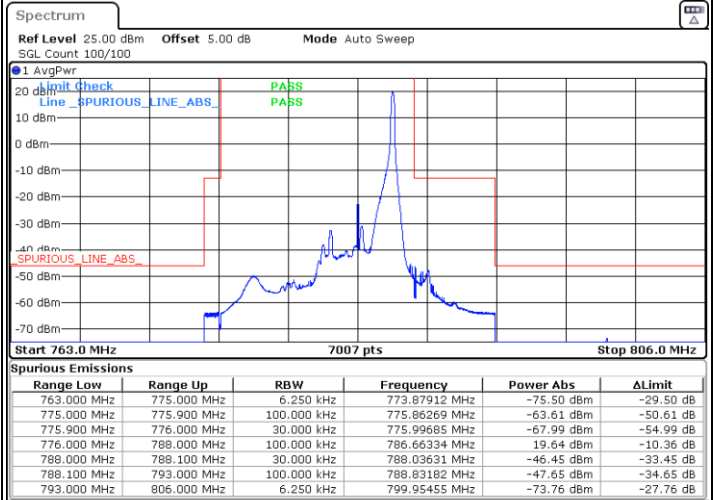
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



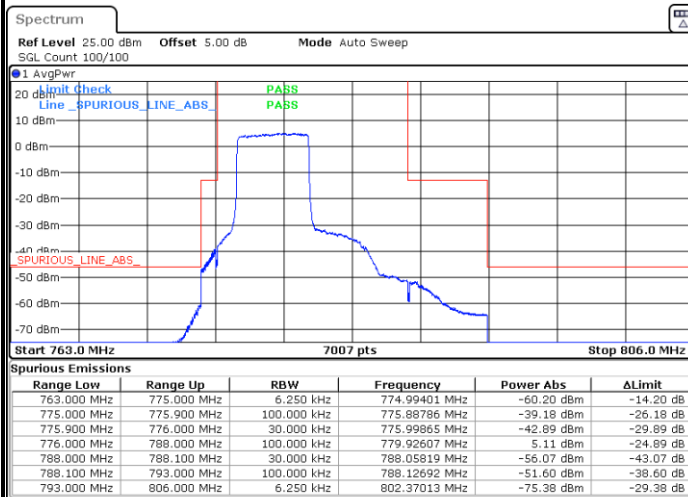
Date: 23.DEC.2021 23:09:30

Highest Band Edge / 1 RB



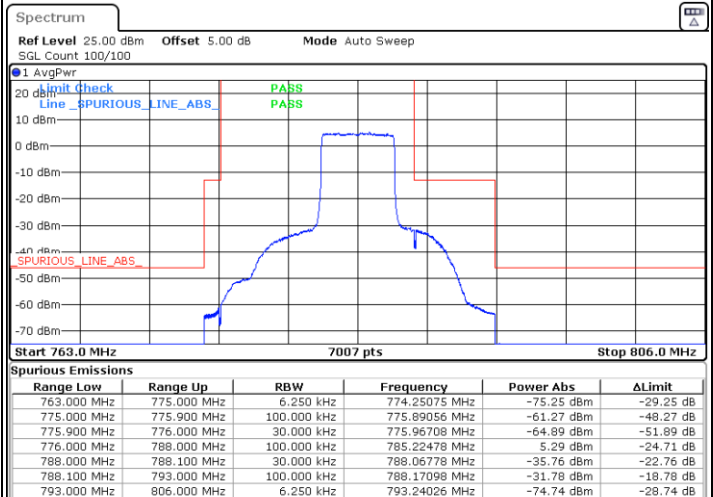
Date: 23.DEC.2021 23:24:40

Lowest Band Edge / Full RB



Date: 23.DEC.2021 23:17:02

Highest Band Edge / Full RB

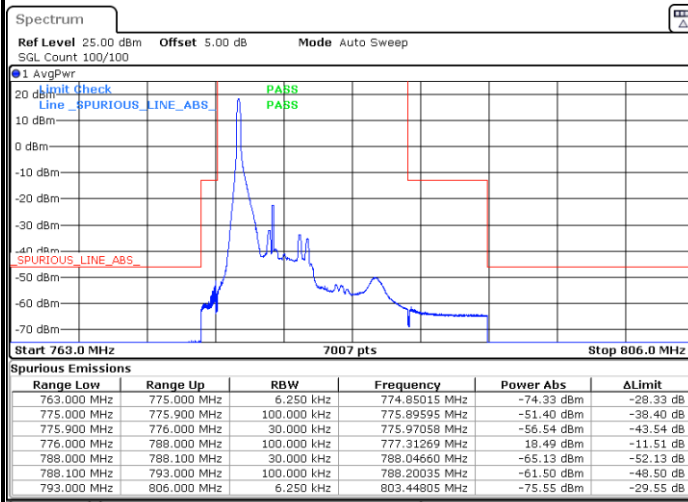


Date: 23.DEC.2021 23:32:12



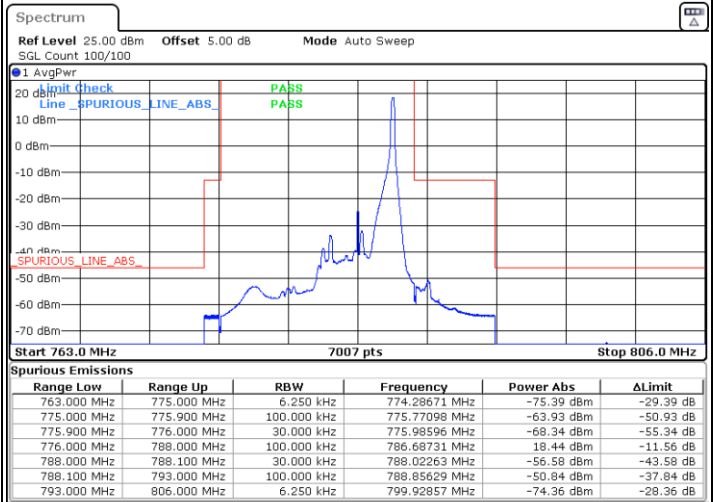
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



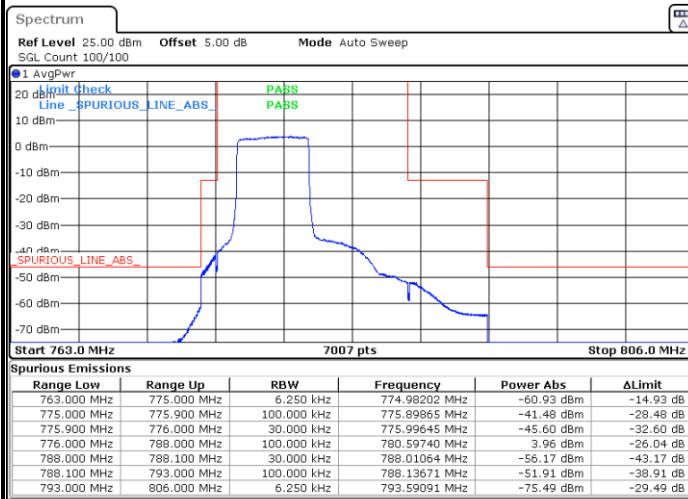
Date: 23.DEC.2021 23:11:23

Highest Band Edge / 1 RB



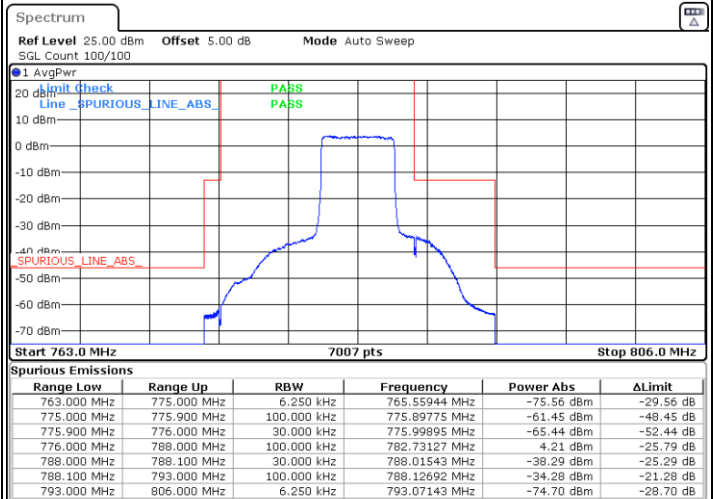
Date: 23.DEC.2021 23:26:33

Lowest Band Edge / Full RB



Date: 23.DEC.2021 23:18:55

Highest Band Edge / Full RB



Date: 23.DEC.2021 23:34:04