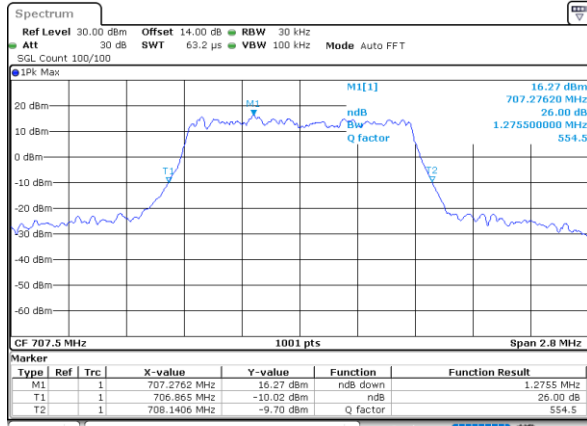


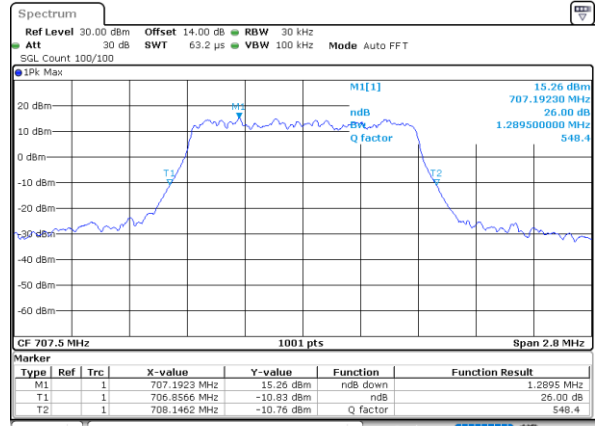


LTE Band 12

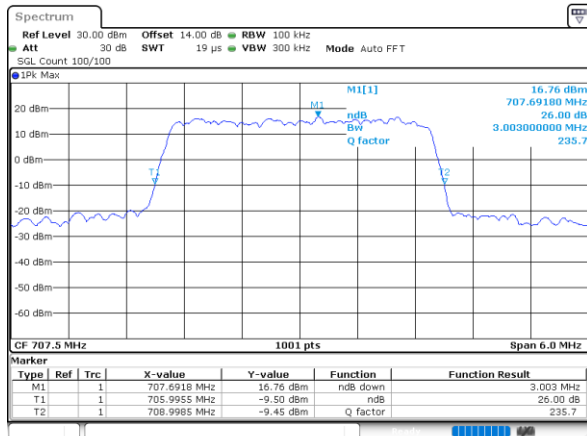
Middle Channel / 1.4MHz / QPSK



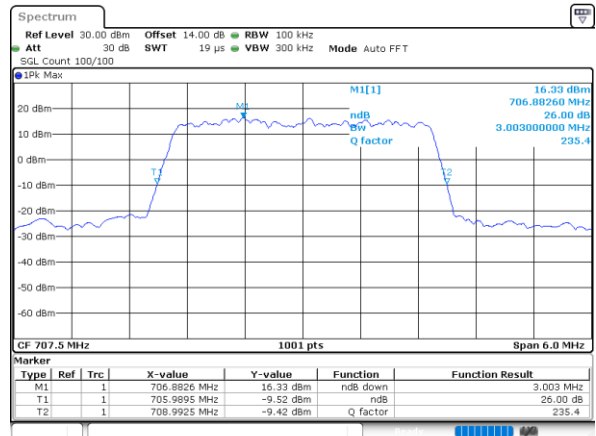
Middle Channel / 1.4MHz / 16QAM



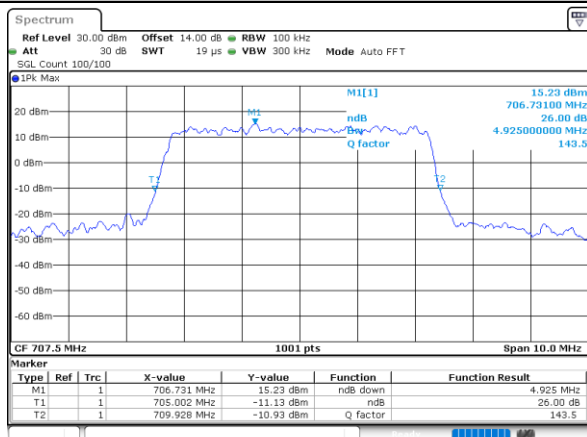
Middle Channel / 3MHz / QPSK



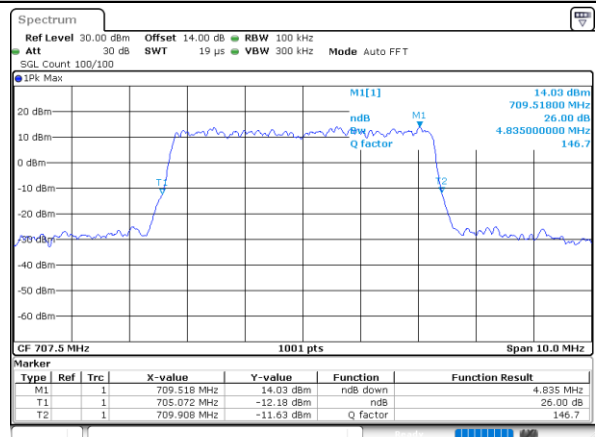
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



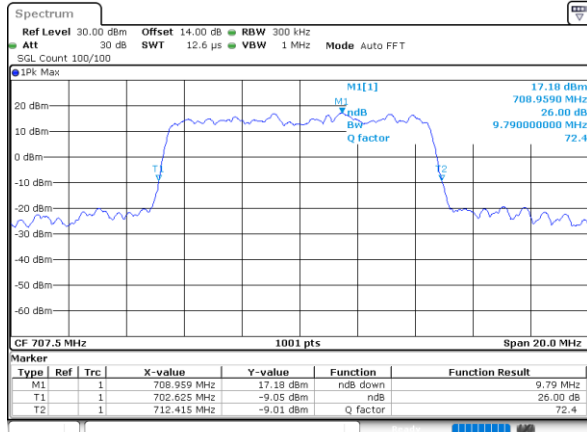
Middle Channel / 5MHz / 16QAM





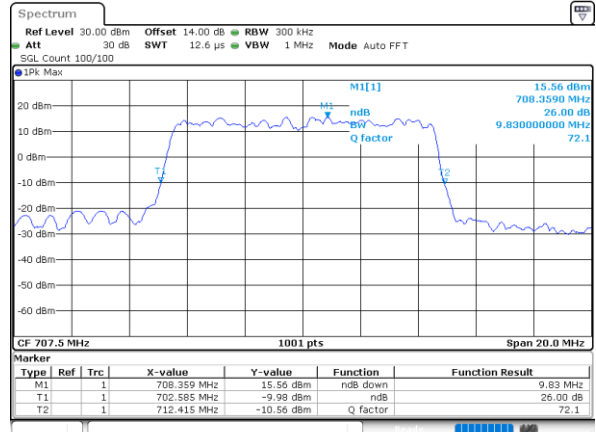
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 15.JUL.2025 02:04:10

Middle Channel / 10MHz / 16QAM



Date: 15.JUL.2025 02:04:49



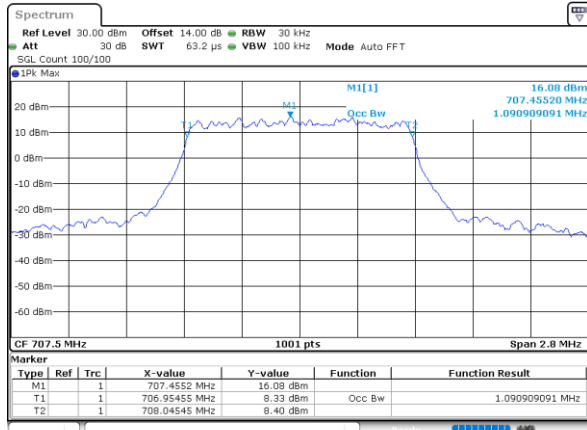
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.09	1.10	2.73	2.70	4.48	4.49	9.05	9.01	-	-	-	-

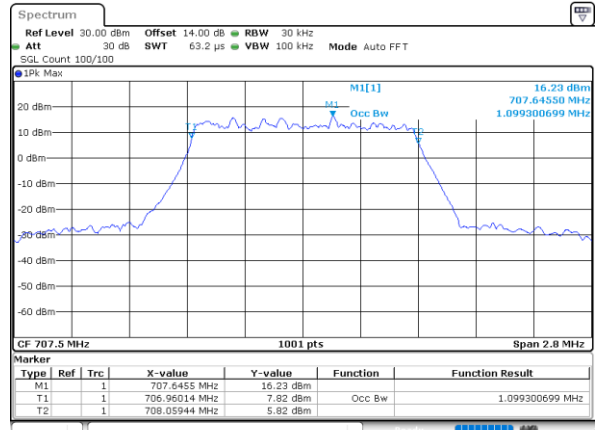


LTE Band 12

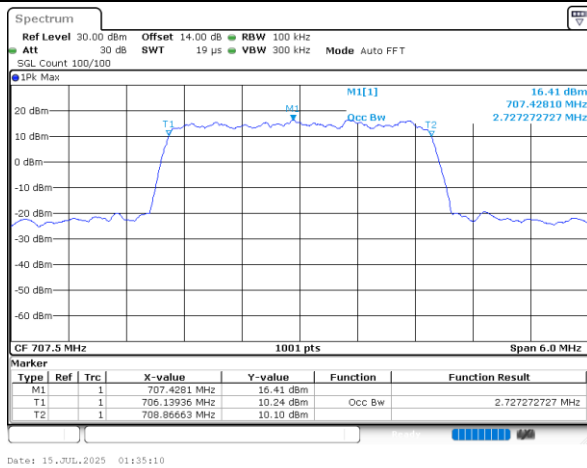
Middle Channel / 1.4MHz / QPSK



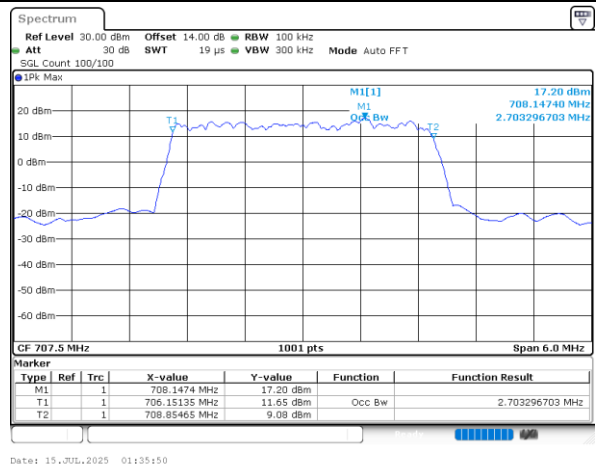
Middle Channel / 1.4MHz / 16QAM



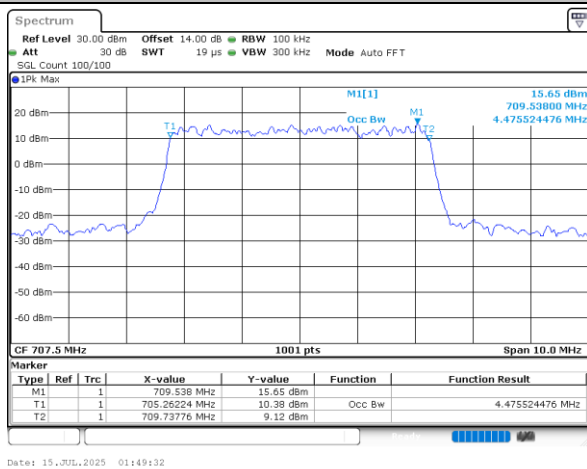
Middle Channel / 3MHz / QPSK



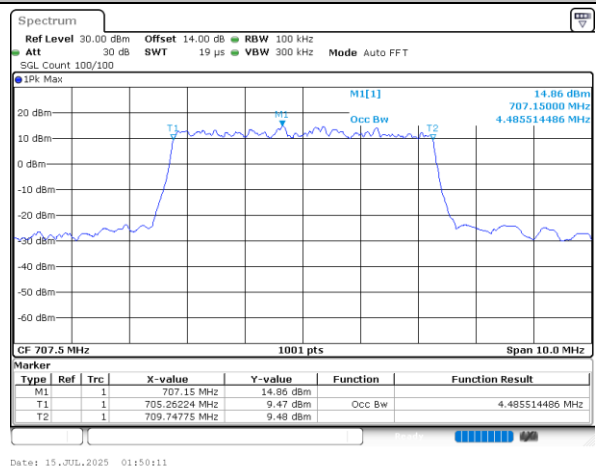
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



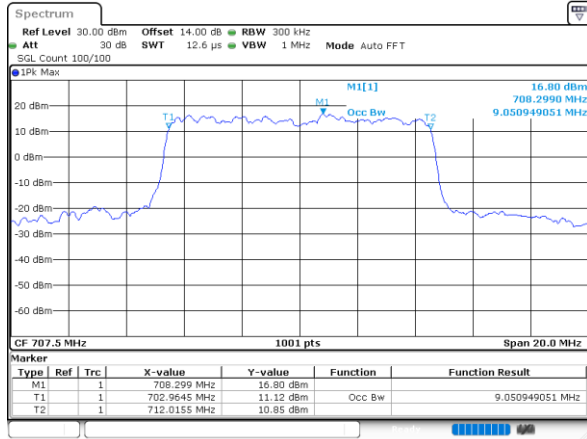
Middle Channel / 5MHz / 16QAM





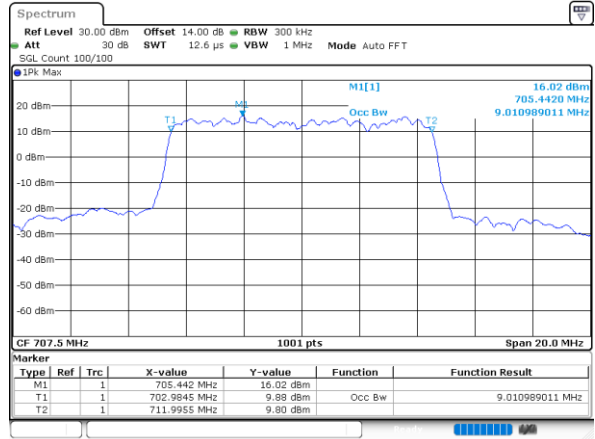
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 15.JUL.2025 02:03:55

Middle Channel / 10MHz / 16QAM



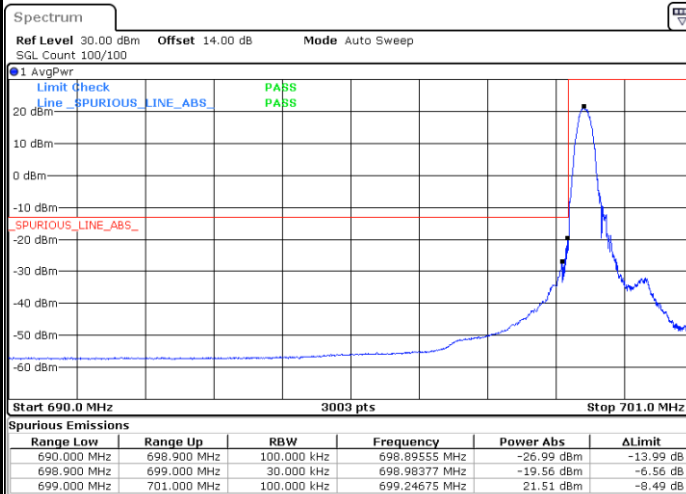
Date: 15.JUL.2025 02:04:35



Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

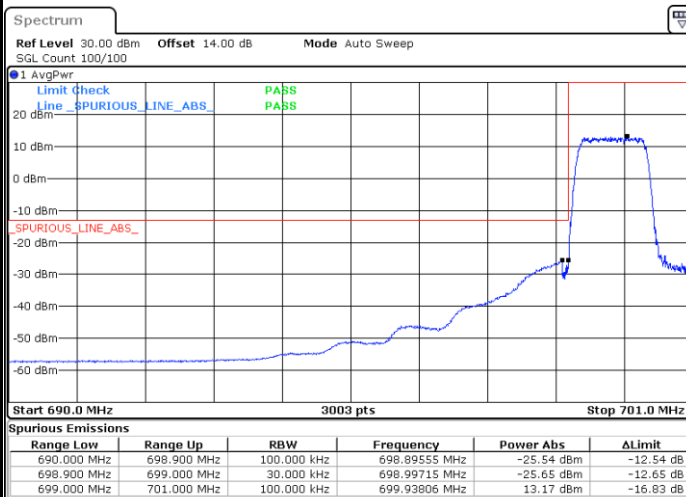
Lowest Band Edge / 1RB



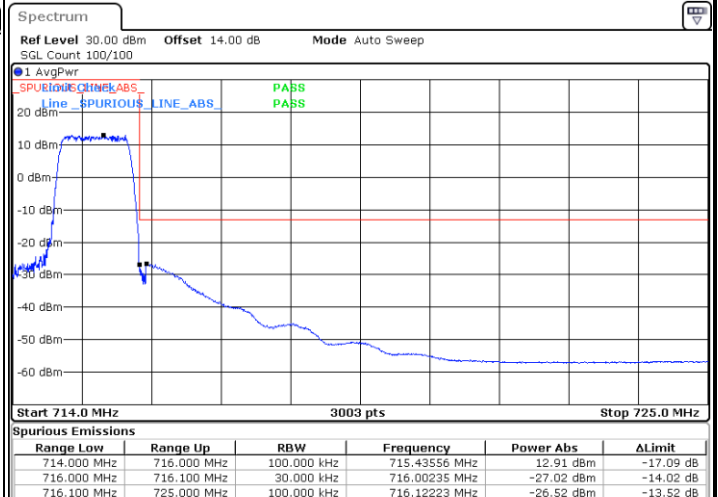
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



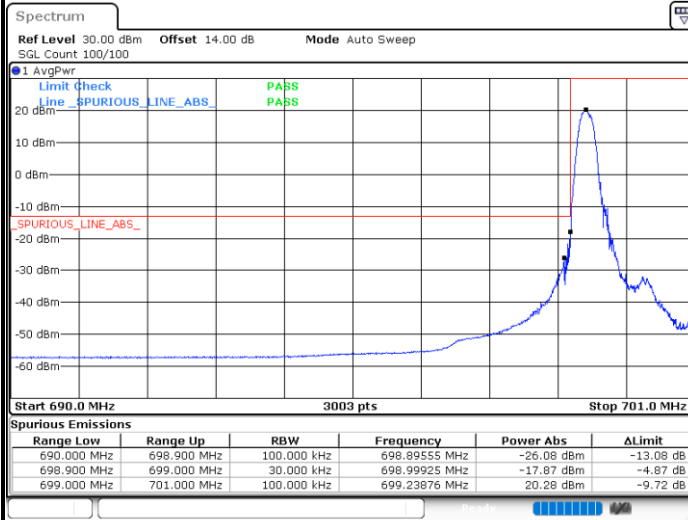
Highest Band Edge / Full RB



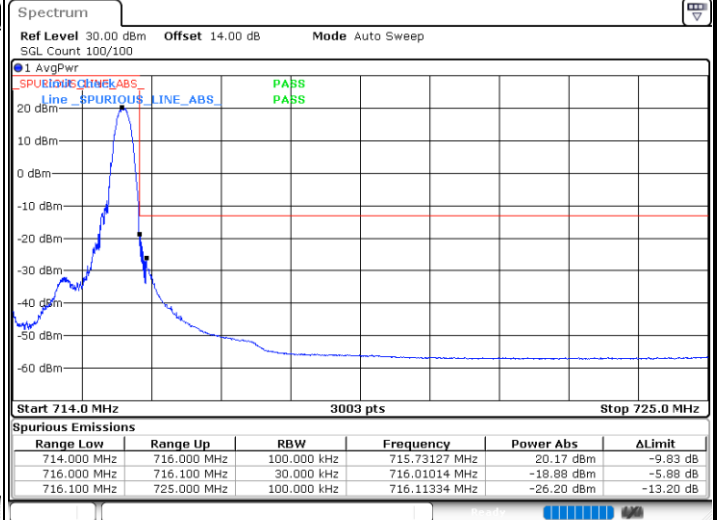


LTE Band 12 / 1.4MHz / 16QAM

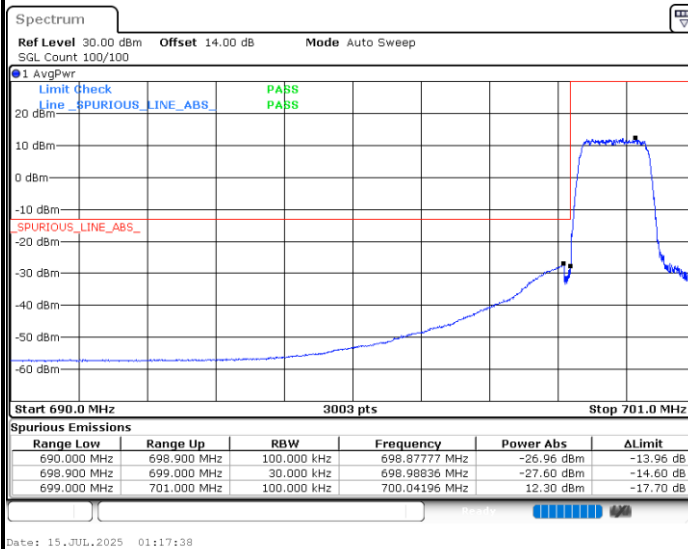
Lowest Band Edge / 1 RB



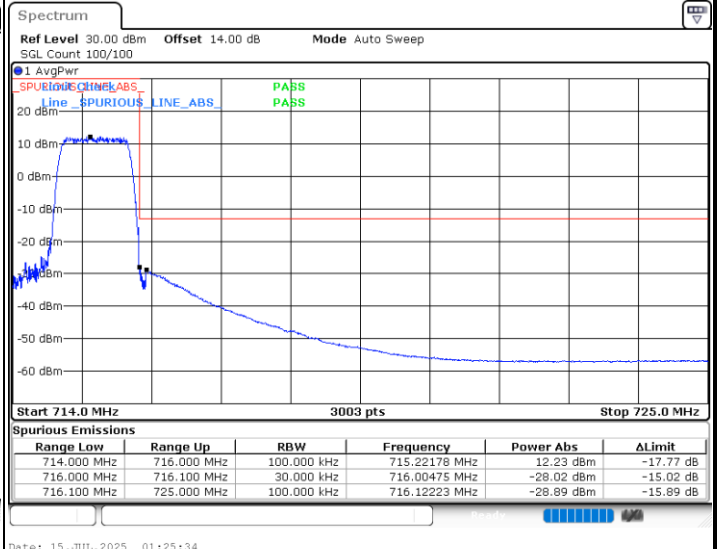
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



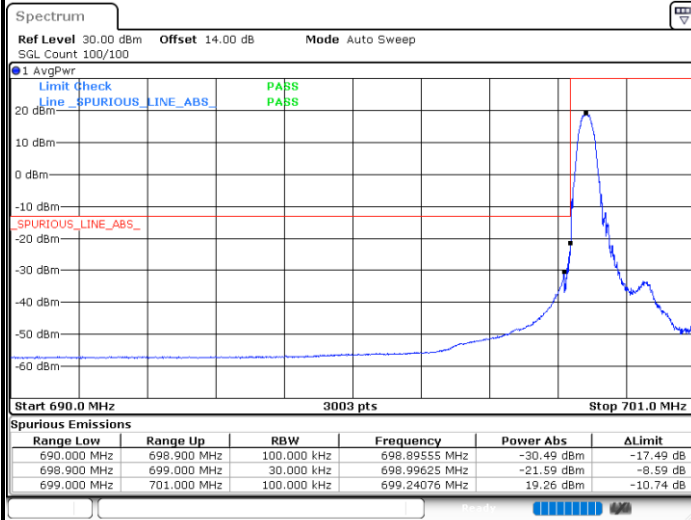
Highest Band Edge / Full RB



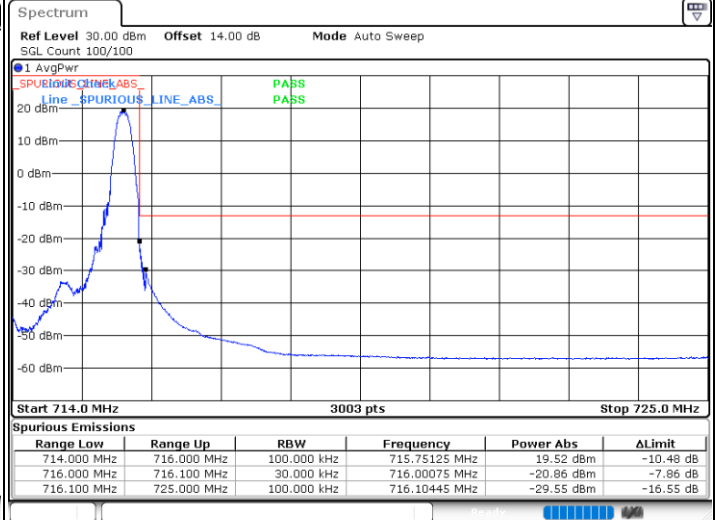


LTE Band 12 / 1.4MHz / 64QAM

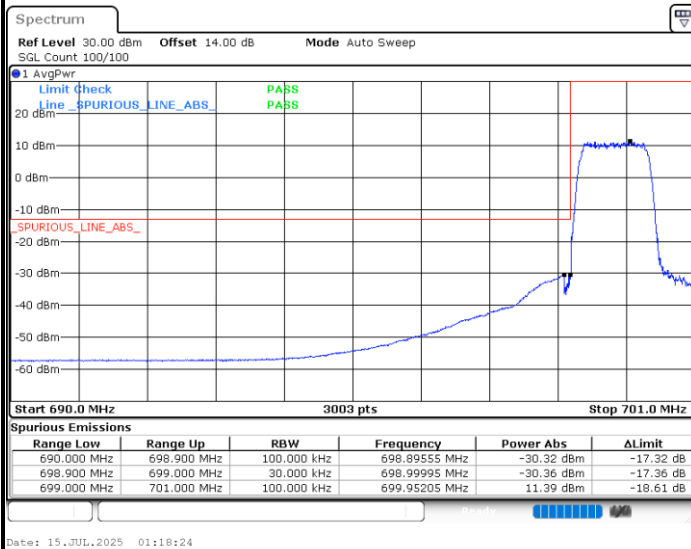
Lowest Band Edge / 1 RB



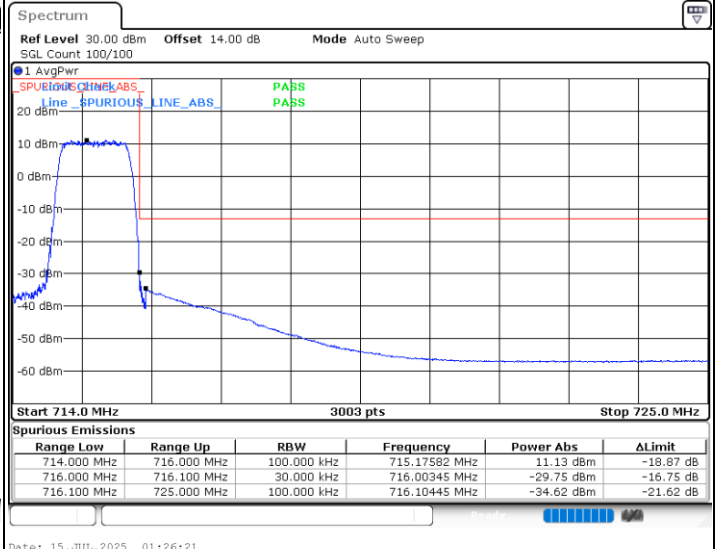
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



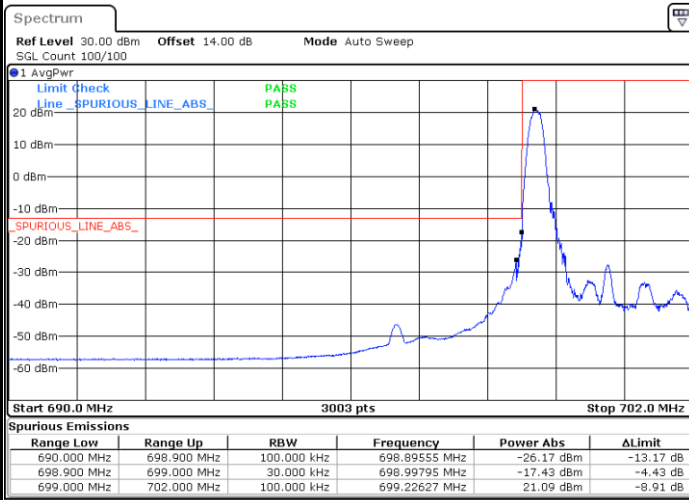
Highest Band Edge / Full RB



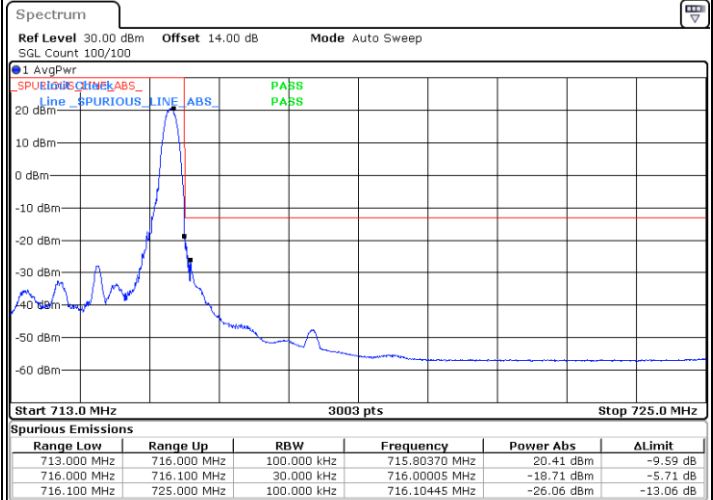


LTE Band 12 / 3MHz / QPSK

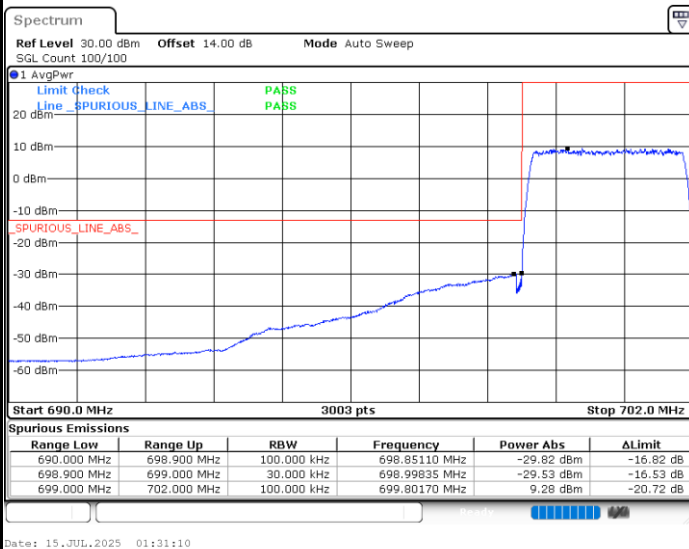
Lowest Band Edge / 1RB



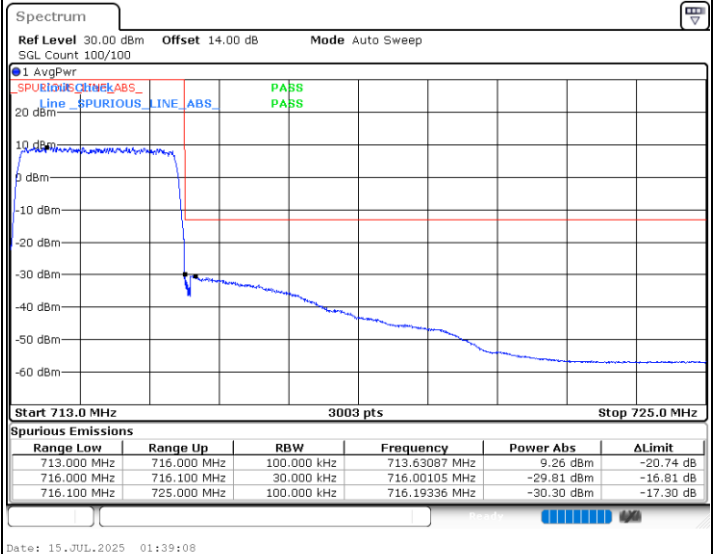
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



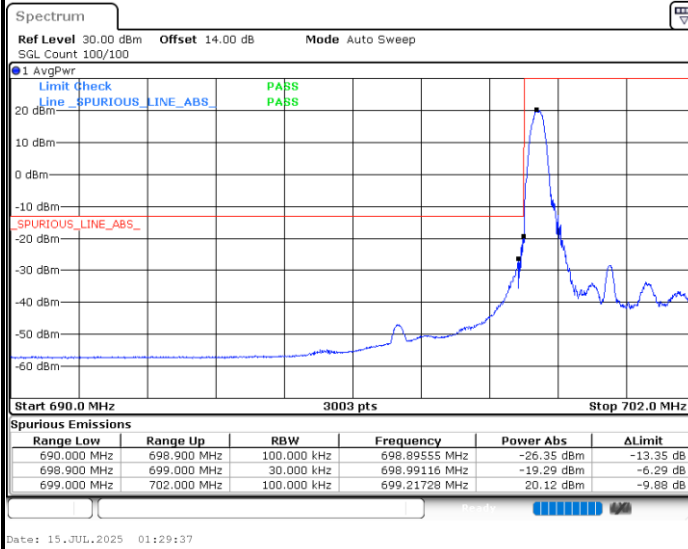
Highest Band Edge / Full RB



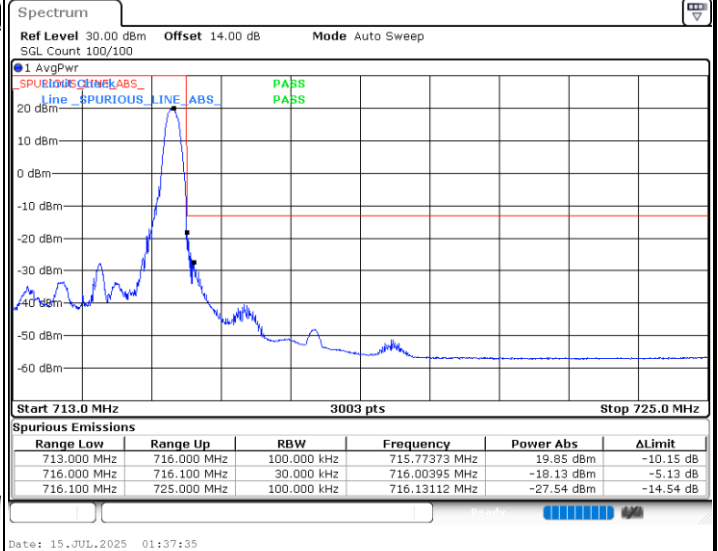


LTE Band 12 / 3MHz / 16QAM

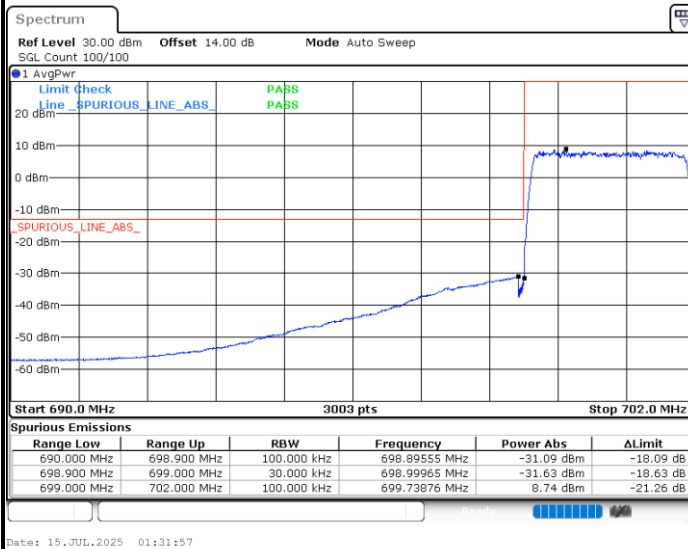
Lowest Band Edge / 1 RB



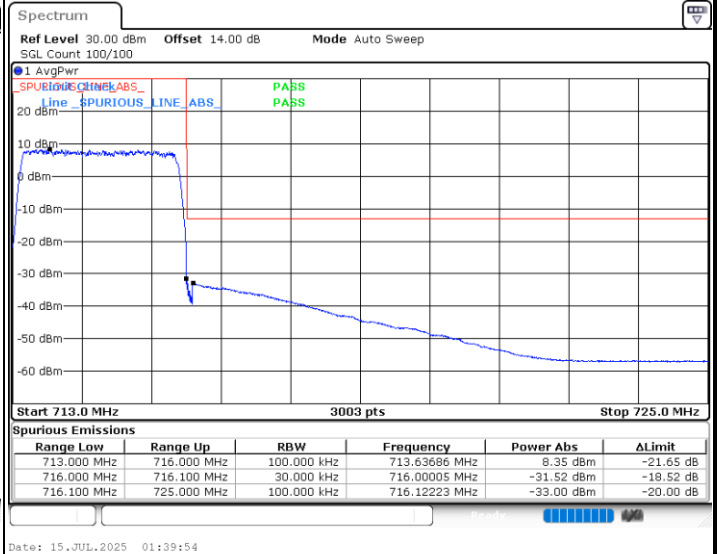
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



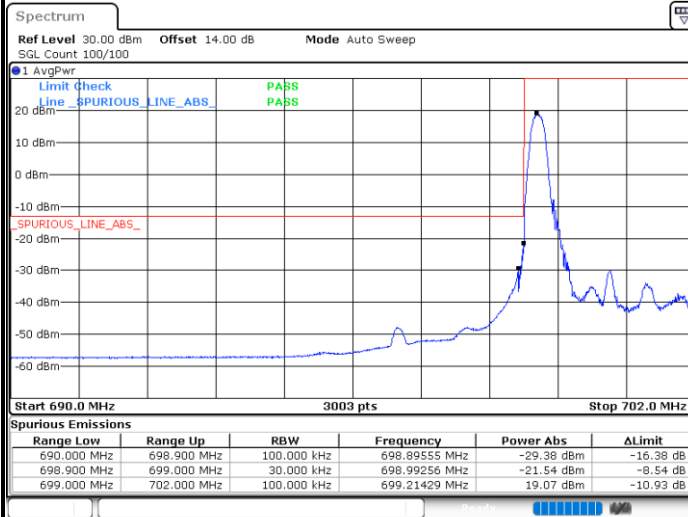
Highest Band Edge / Full RB



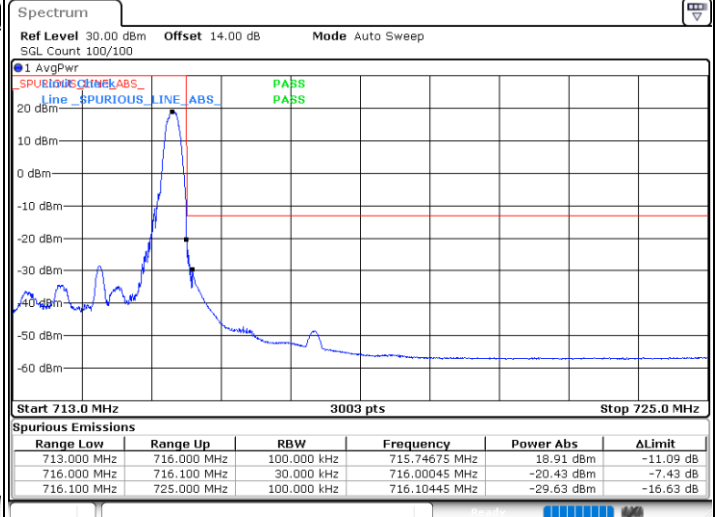


LTE Band 12 / 3MHz / 64QAM

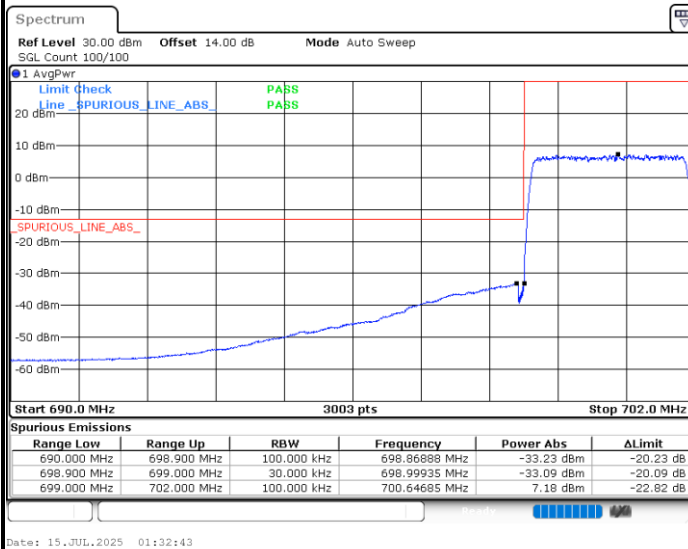
Lowest Band Edge / 1 RB



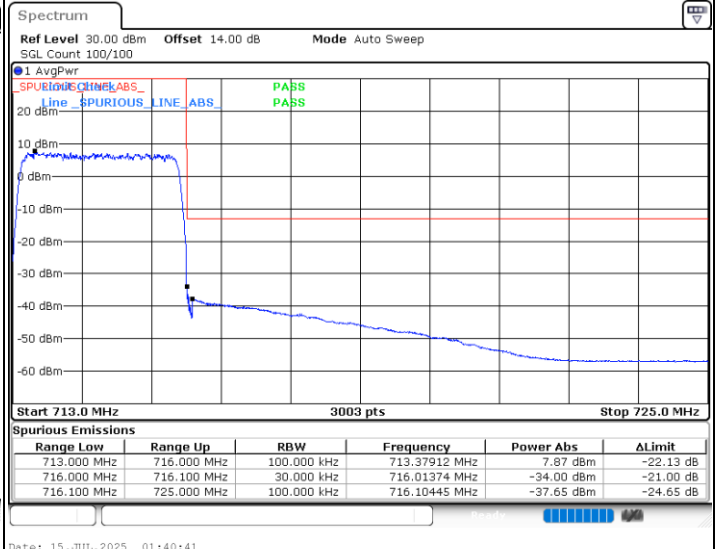
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



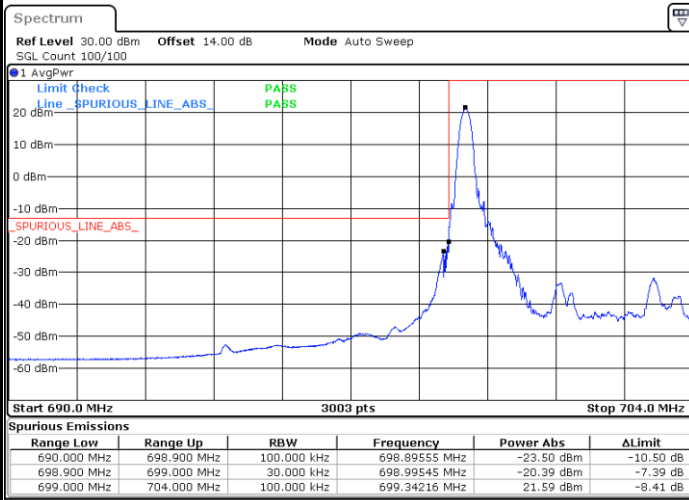
Highest Band Edge / Full RB





LTE Band 12 / 5MHz / QPSK

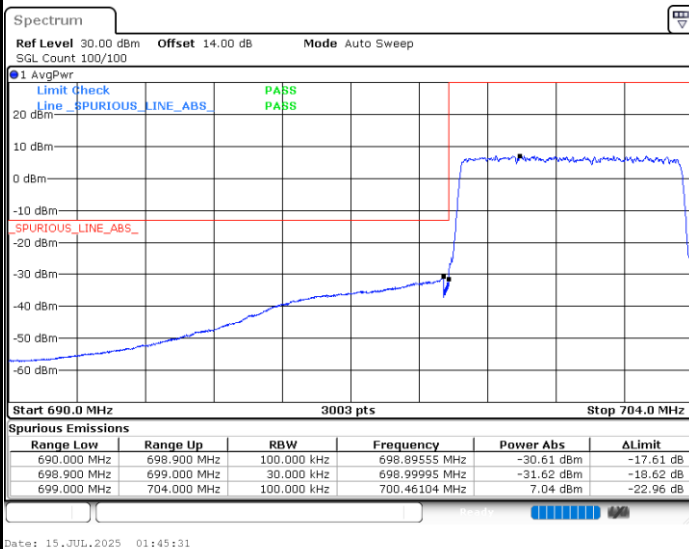
Lowest Band Edge / 1RB



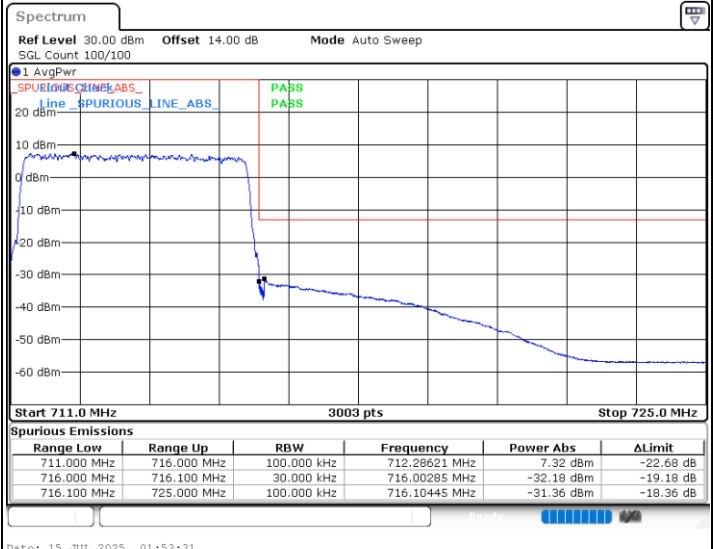
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



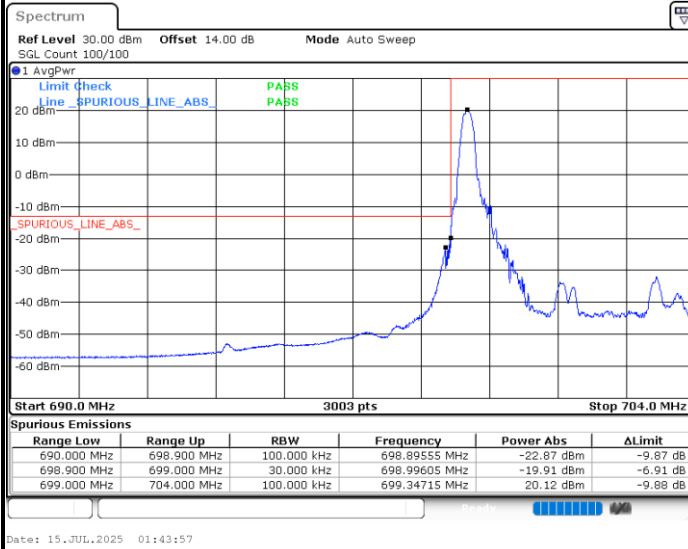
Highest Band Edge / Full RB



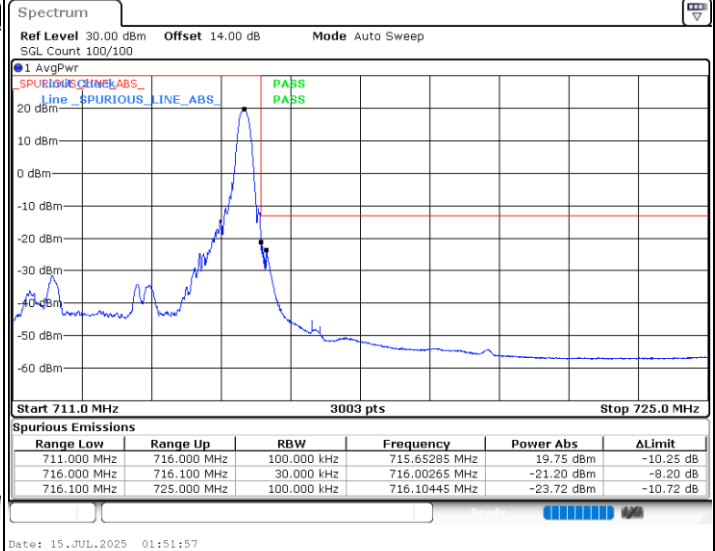


LTE Band 12 / 5MHz / 16QAM

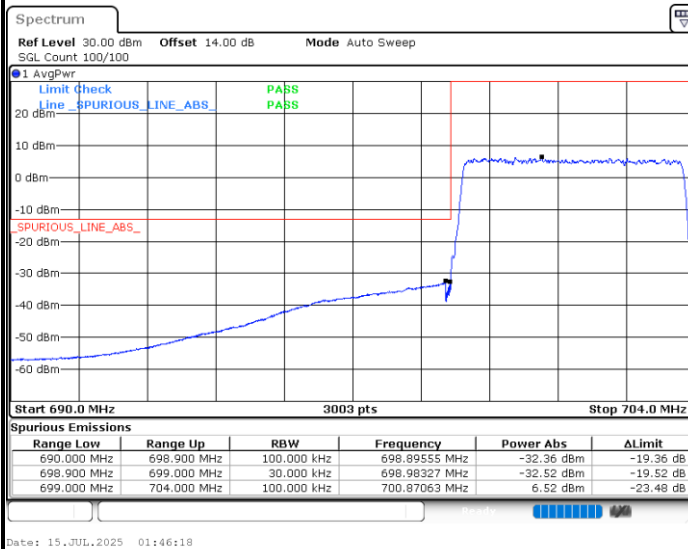
Lowest Band Edge / 1 RB



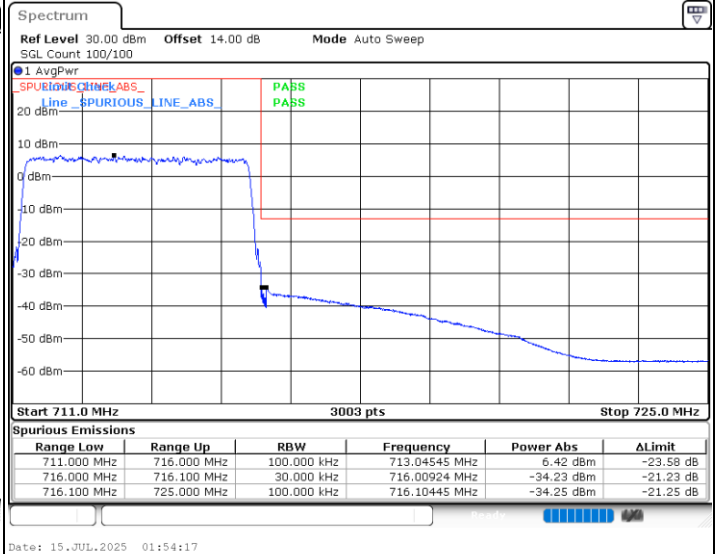
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



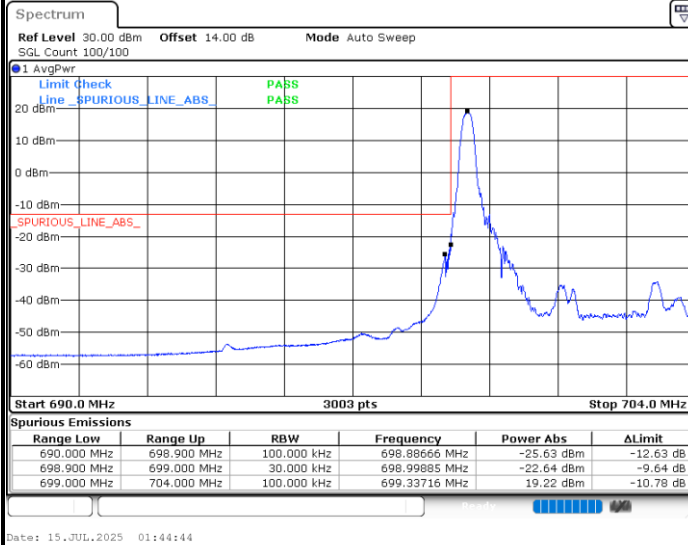
Highest Band Edge / Full RB



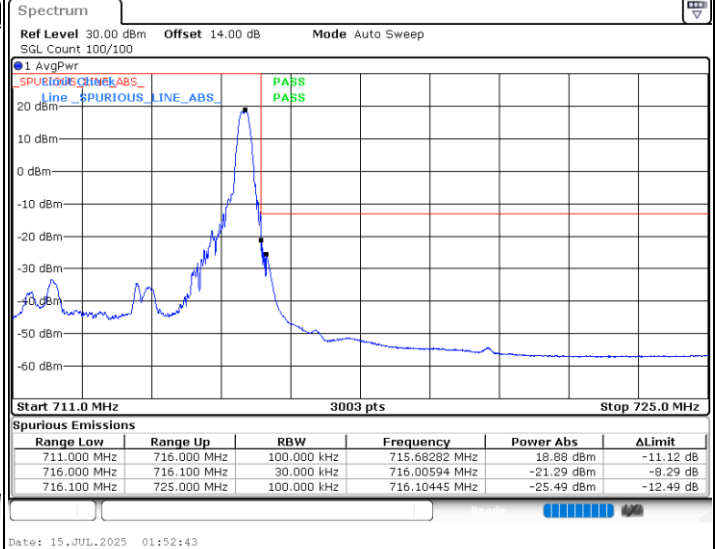


LTE Band 12 / 5MHz / 64QAM

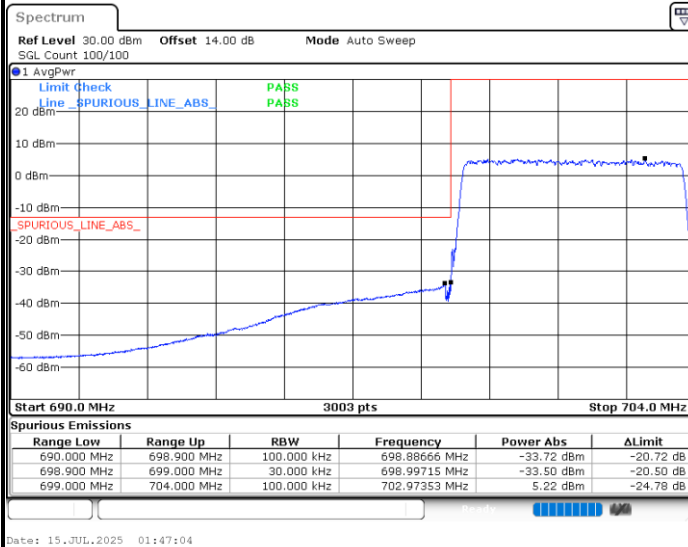
Lowest Band Edge / 1 RB



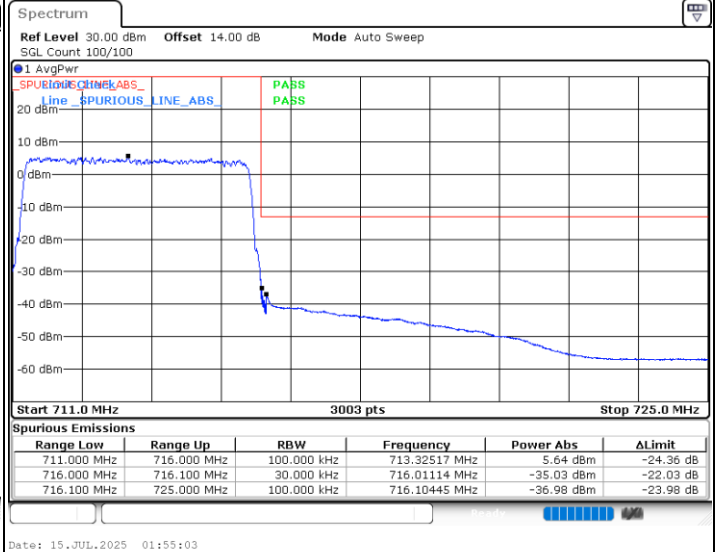
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



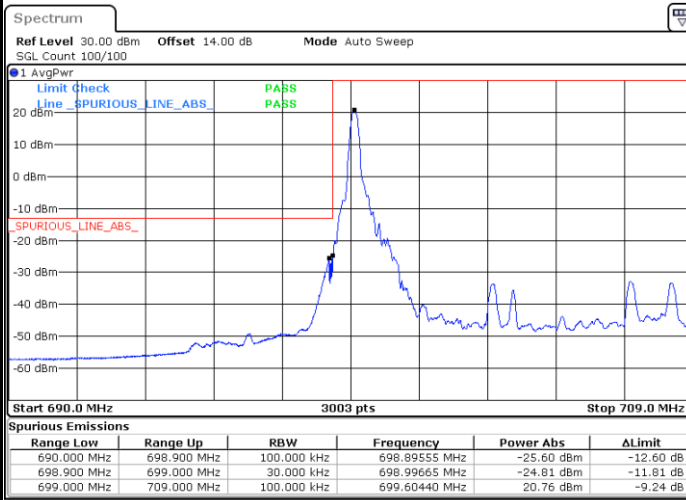
Highest Band Edge / Full RB



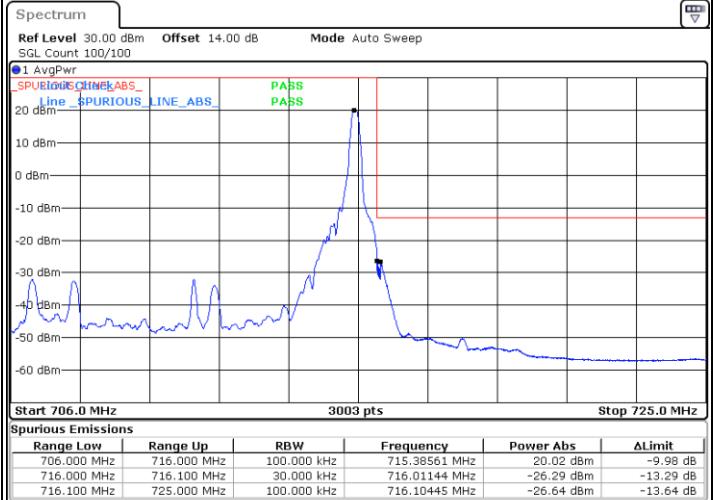


LTE Band 12 / 10MHz / QPSK

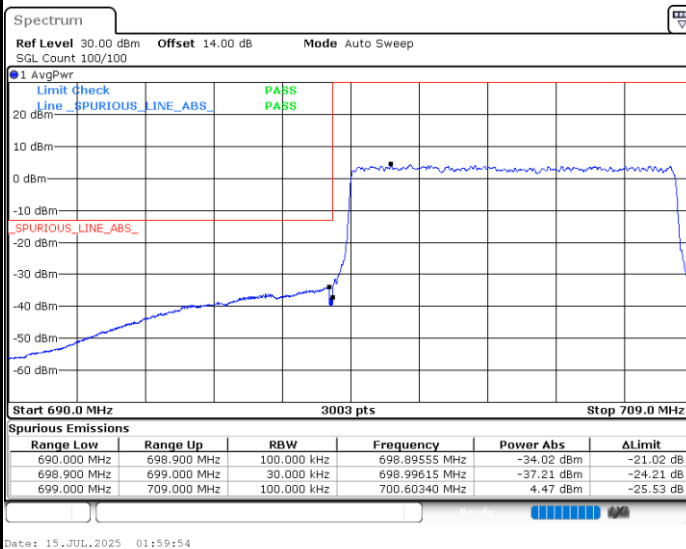
Lowest Band Edge / 1RB



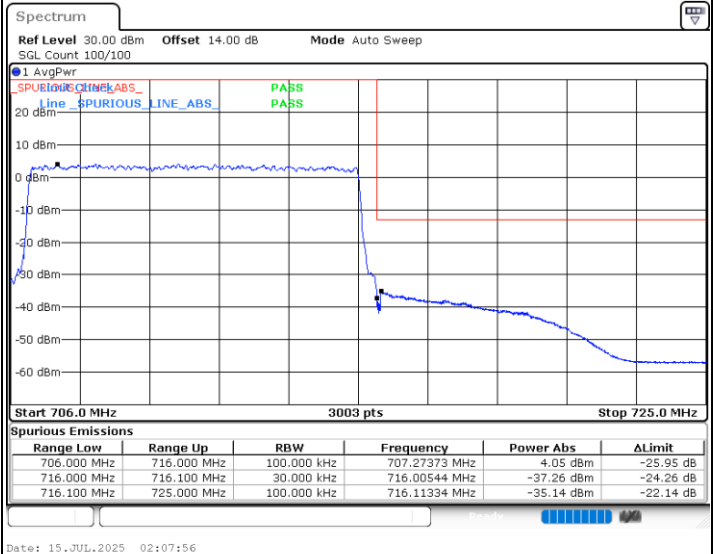
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



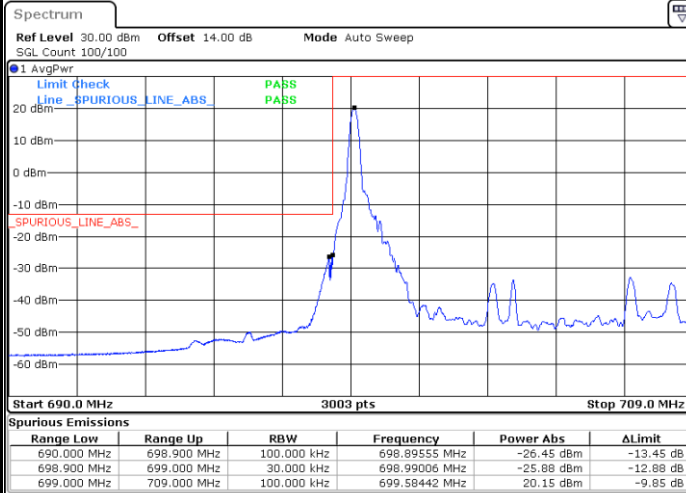
Highest Band Edge / Full RB



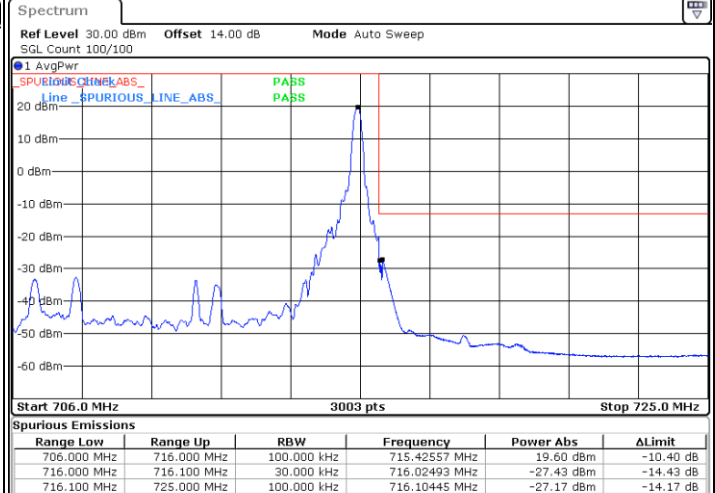


LTE Band 12 / 10MHz / 16QAM

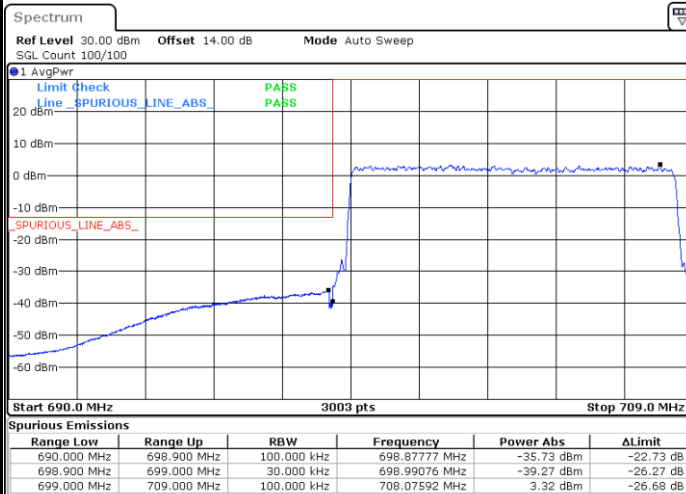
Lowest Band Edge / 1 RB



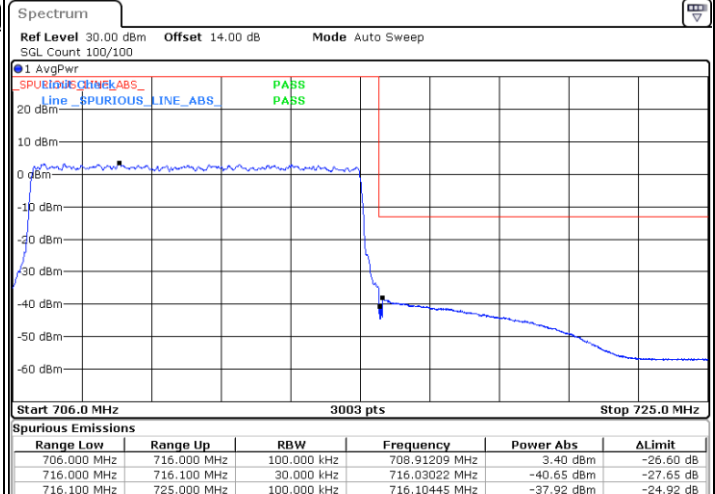
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



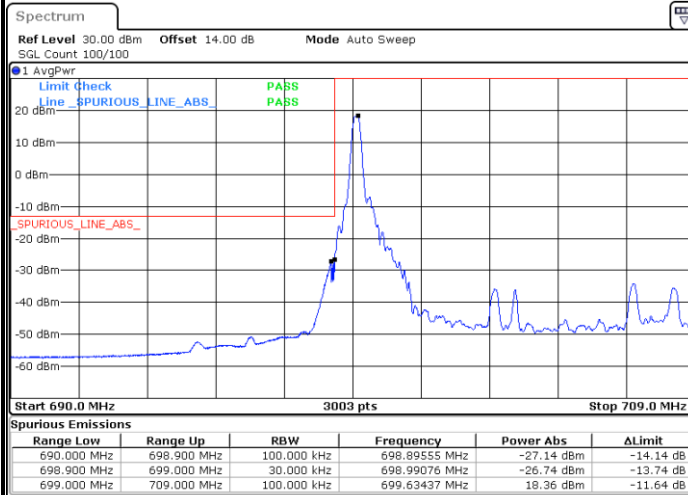
Highest Band Edge / Full RB



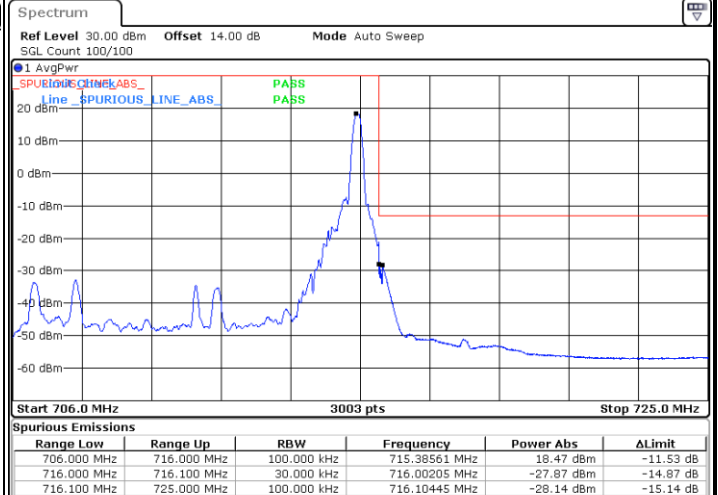


LTE Band 12 / 10MHz / 64QAM

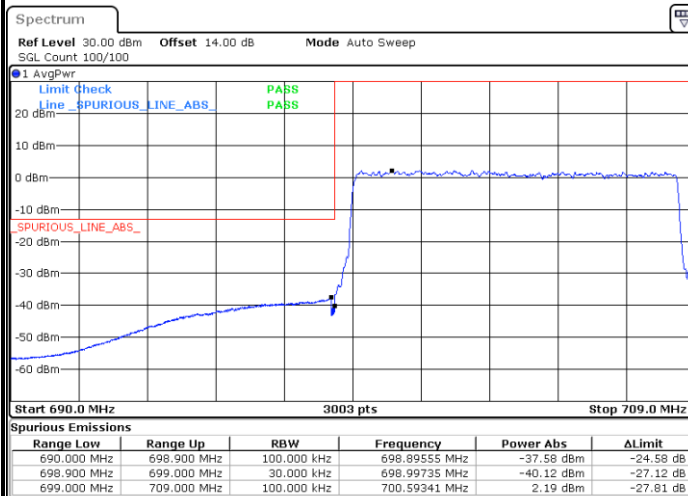
Lowest Band Edge / 1 RB



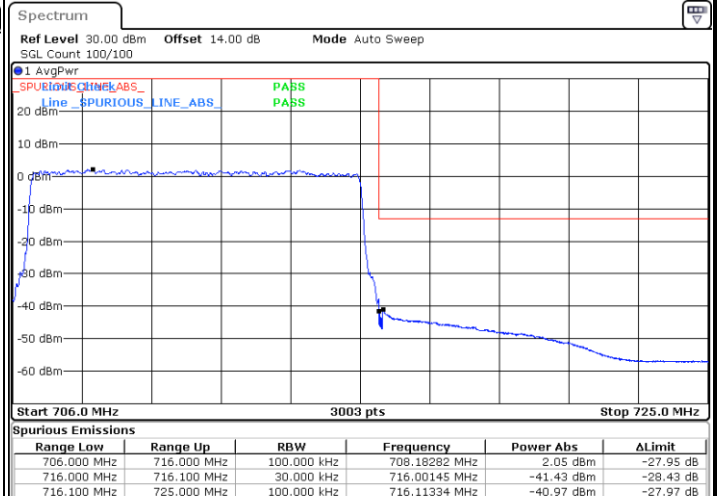
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

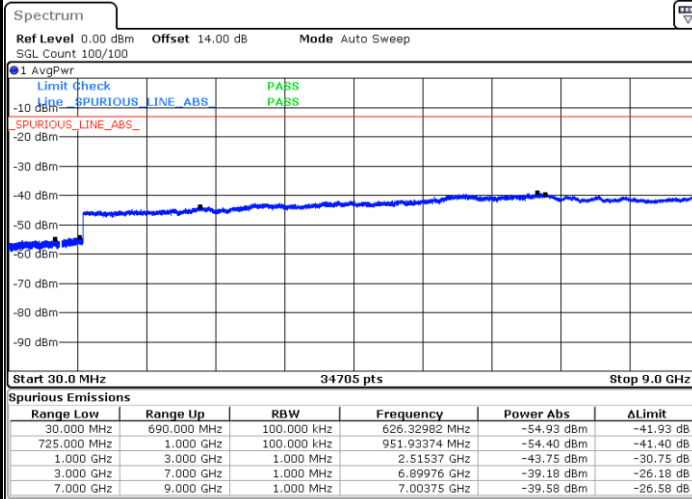




Conducted Spurious Emission

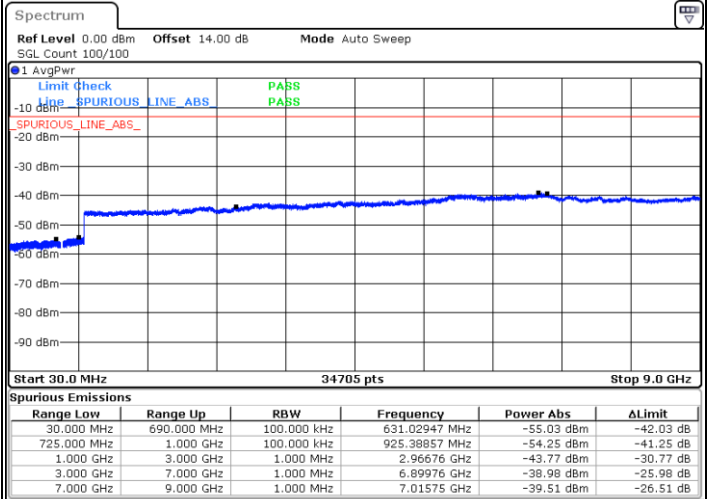
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



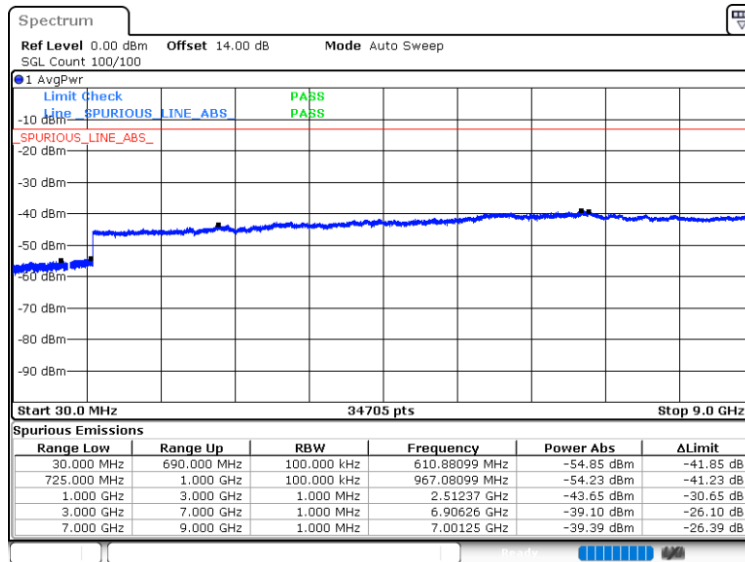
Date: 15.JUL.2025 01:19:25

Middle Channel / QPSK



Date: 15.JUL.2025 01:20:24

Highest Channel / QPSK

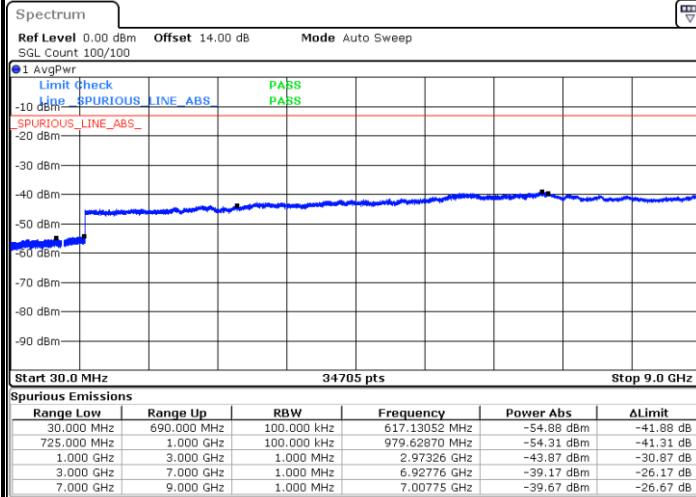


Date: 15.JUL.2025 01:27:21



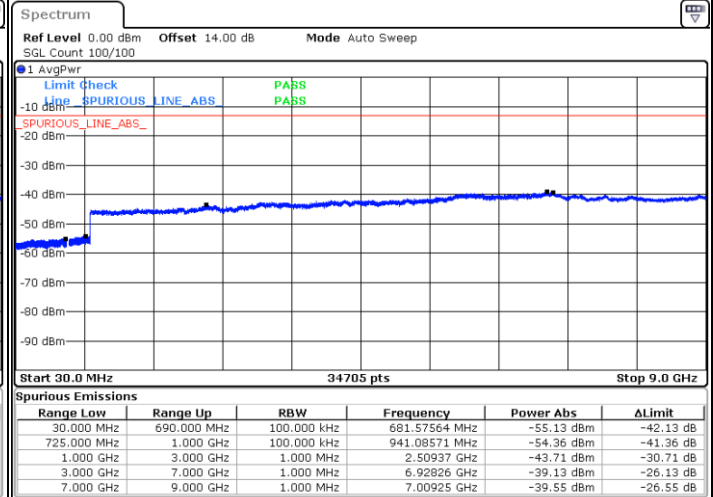
LTE Band 12 / 3MHz

Lowest Channel / QPSK



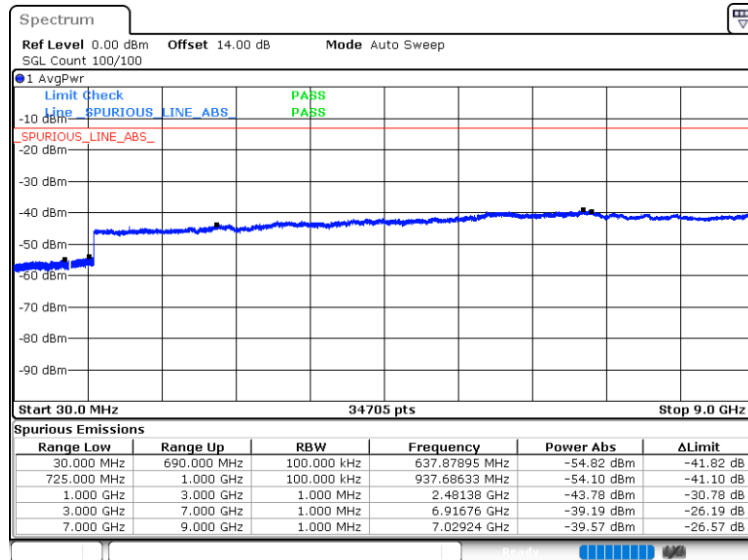
Date: 15.JUL.2025 01:33:44

Middle Channel / QPSK



Date: 15.JUL.2025 01:34:44

Highest Channel / QPSK

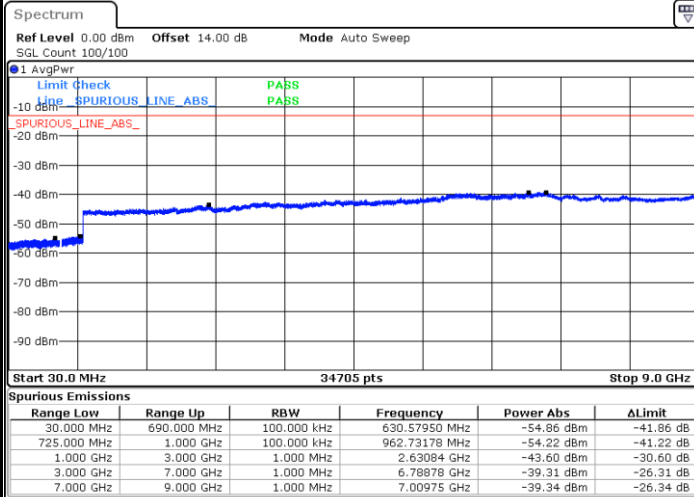


Date: 15.JUL.2025 01:41:41



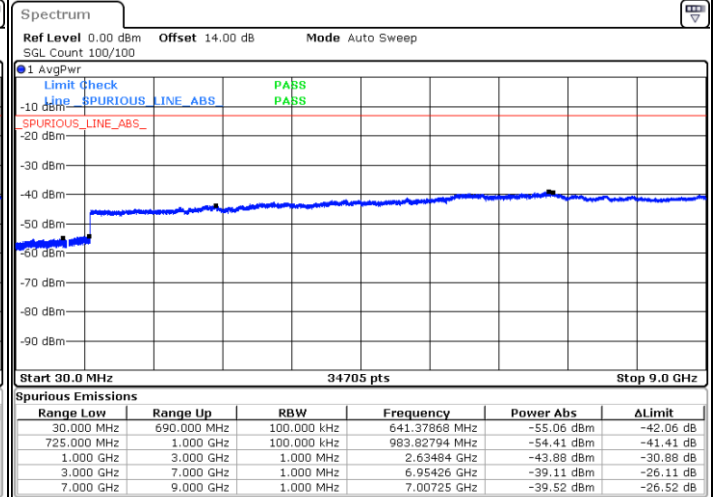
LTE Band 12 / 5MHz

Lowest Channel / QPSK



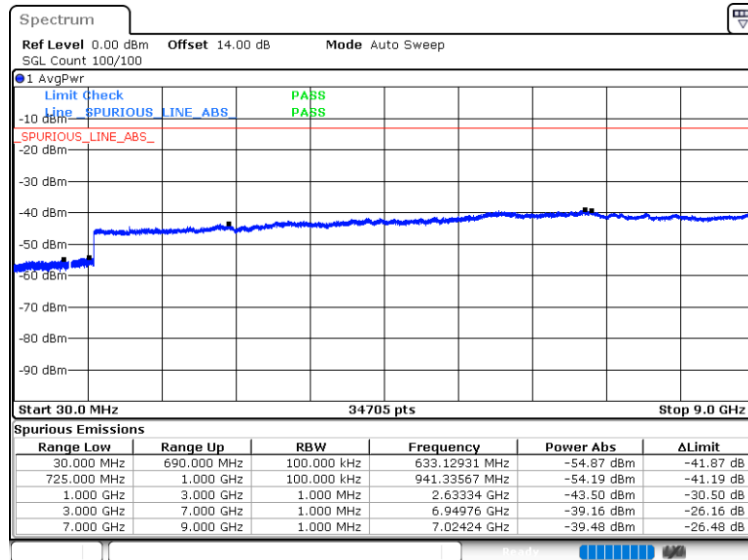
Date: 15.JUL.2025 01:48:05

Middle Channel / QPSK



Date: 15.JUL.2025 01:49:05

Highest Channel / QPSK

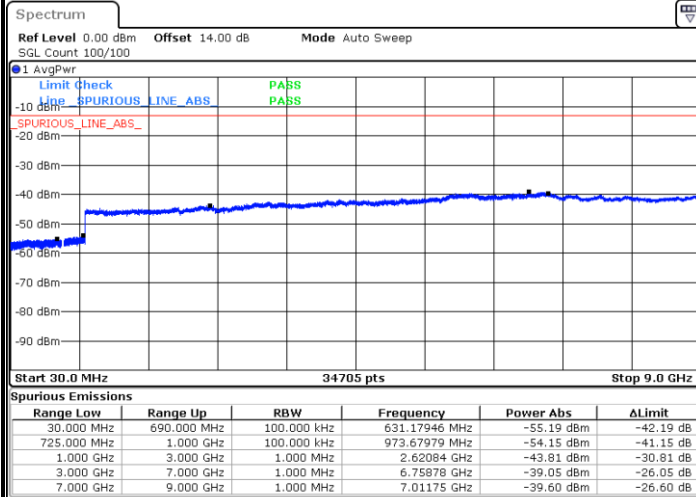


Date: 15.JUL.2025 01:56:04



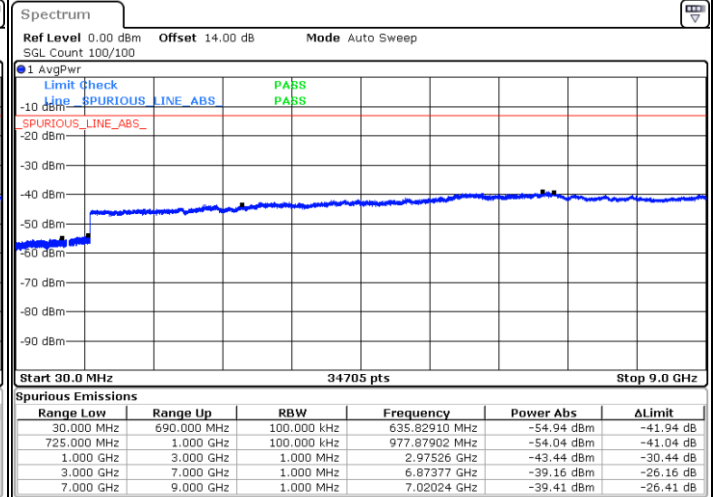
LTE Band 12 / 10MHz

Lowest Channel / QPSK



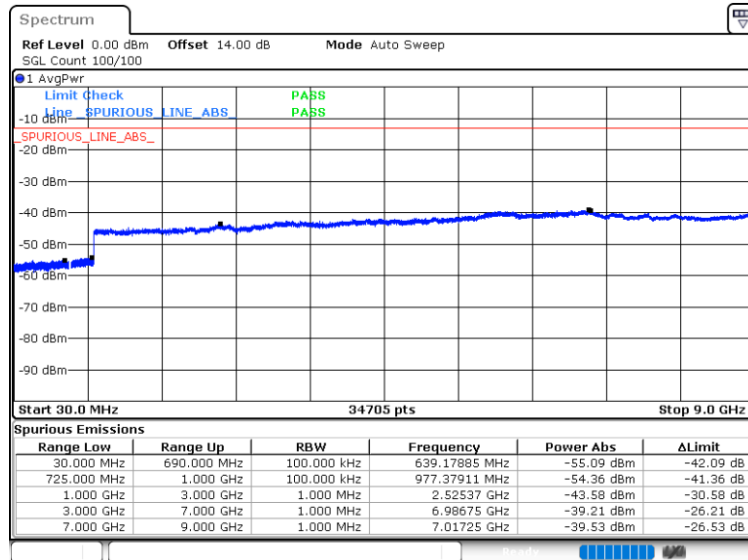
Date: 15.JUL.2025 02:02:29

Middle Channel / QPSK



Date: 15.JUL.2025 02:03:29

Highest Channel / QPSK



Date: 15.JUL.2025 02:10:29

**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	0.0048	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0054	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0045	

Note:

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

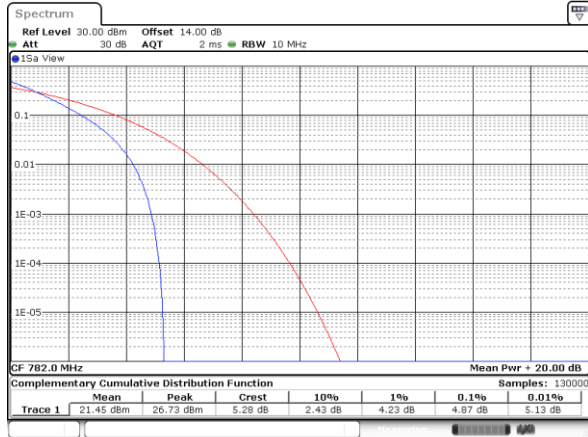
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.87	5.68	6.09	PASS



LTE Band 13 / 10MHz / QPSK

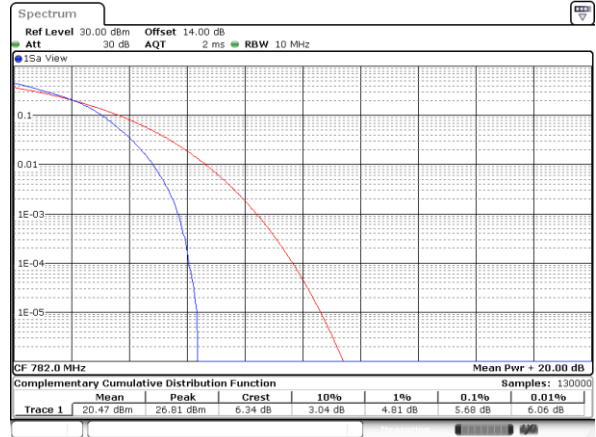
Middle Channel / Full RB



Date: 15.JUL.2025 02:35:08

LTE Band 13 / 10MHz / 16QAM

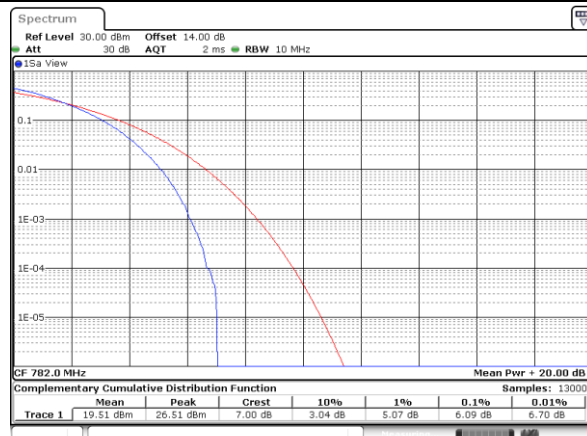
Middle Channel / Full RB



Date: 15.JUL.2025 02:35:35

LTE Band 13 / 10MHz / 64QAM

Middle Channel / Full RB



Date: 15.JUL.2025 02:36:03



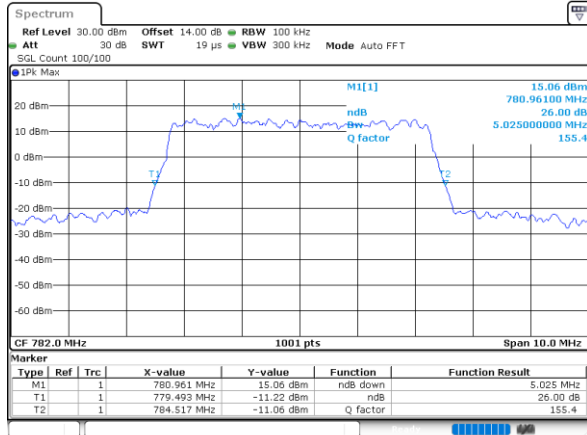
26dB Bandwidth

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	-	-	-	-	5.03	4.85	9.93	9.69	-	-	-	-

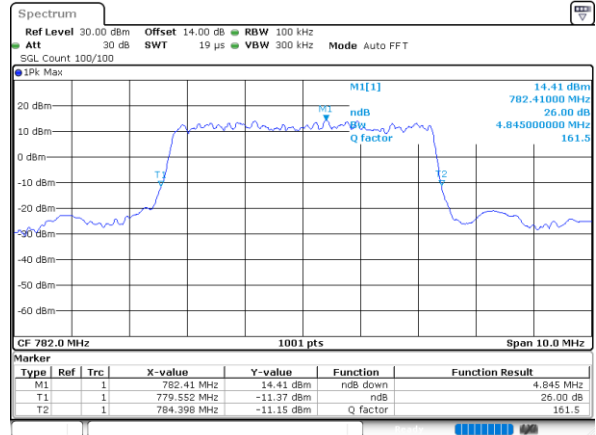


LTE Band 13

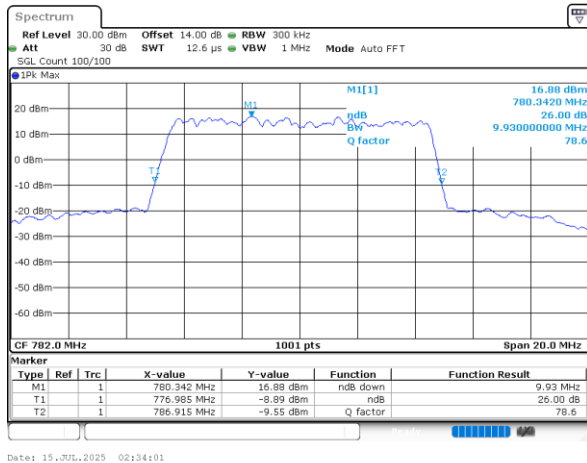
Middle Channel / 5MHz / QPSK



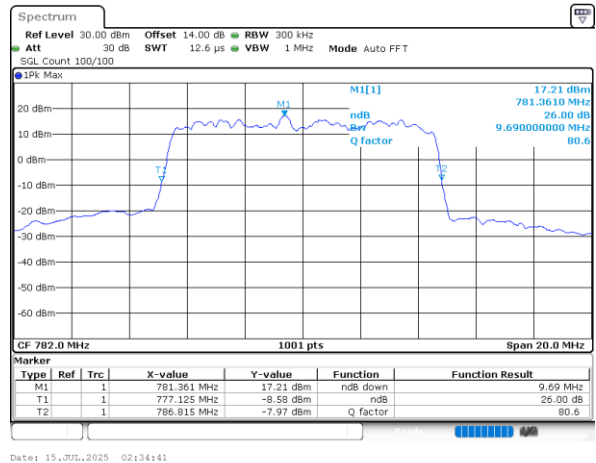
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM





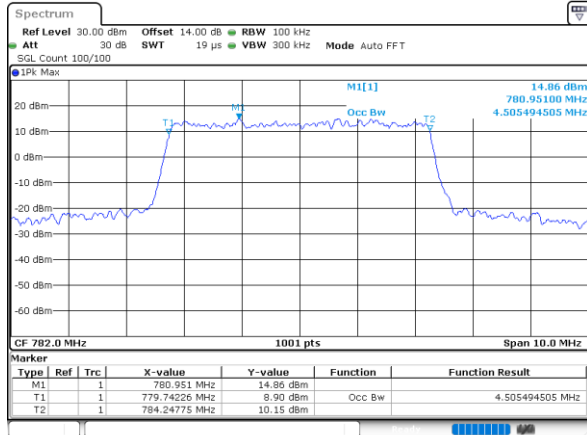
Occupied Bandwidth

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	9.05	9.01	-	-	-	-



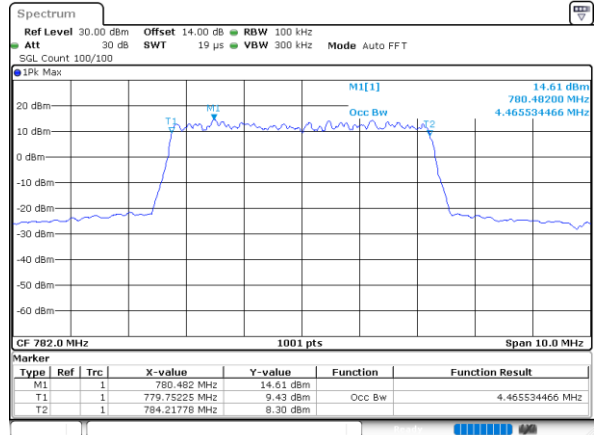
LTE Band 13

Middle Channel / 5MHz / QPSK



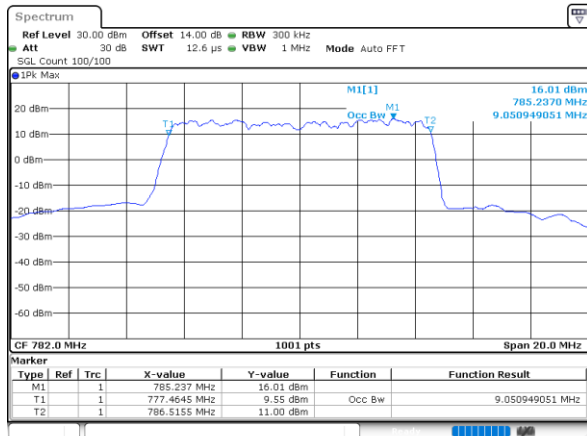
Date: 15.JUL.2025 02:18:16

Middle Channel / 5MHz / 16QAM



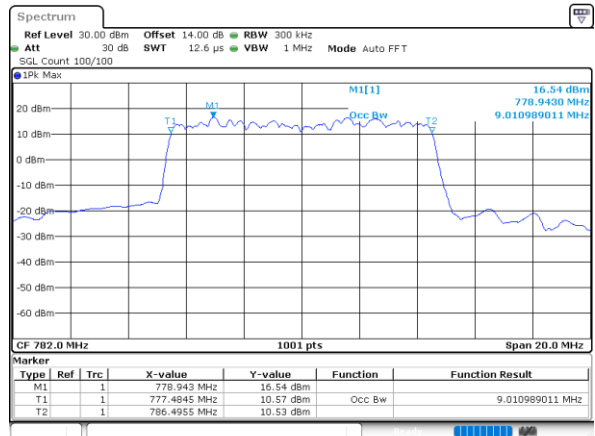
Date: 15.JUL.2025 02:18:56

Middle Channel / 10MHz / QPSK



Date: 15.JUL.2025 02:33:47

Middle Channel / 10MHz / 16QAM



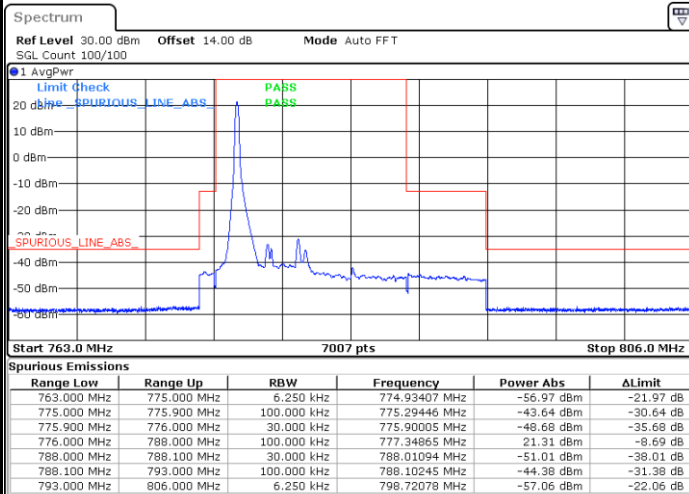
Date: 15.JUL.2025 02:34:27



Conducted Band Edge

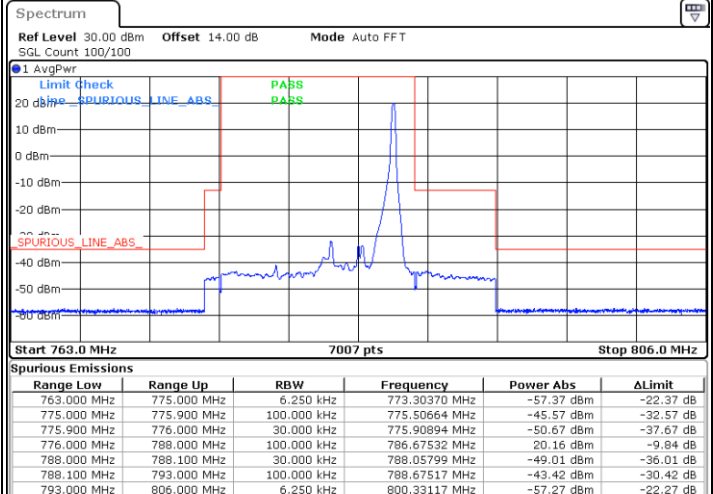
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



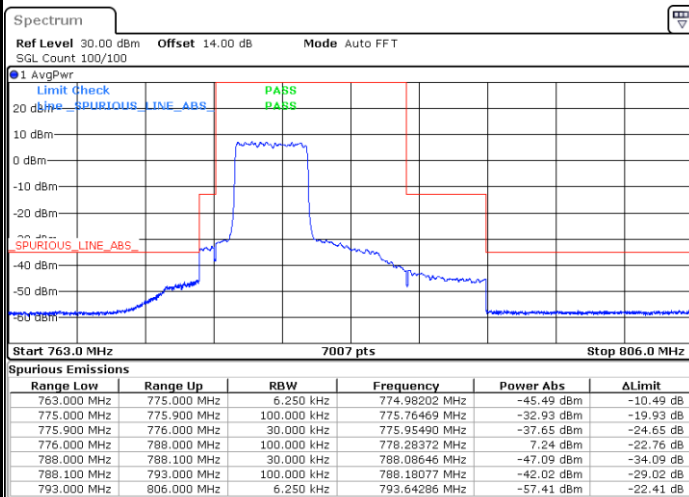
Date: 15.JUL.2025 02:11:59

Highest Band Edge / 1 RB



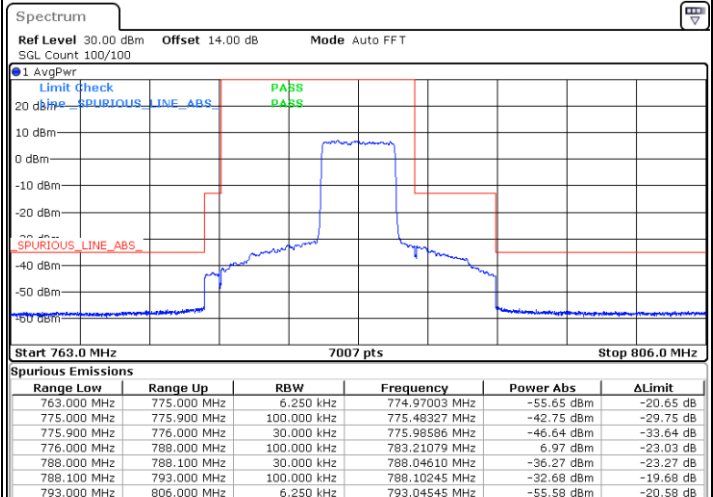
Date: 15.JUL.2025 02:19:55

Lowest Band Edge / Full RB



Date: 15.JUL.2025 02:14:18

Highest Band Edge / Full RB

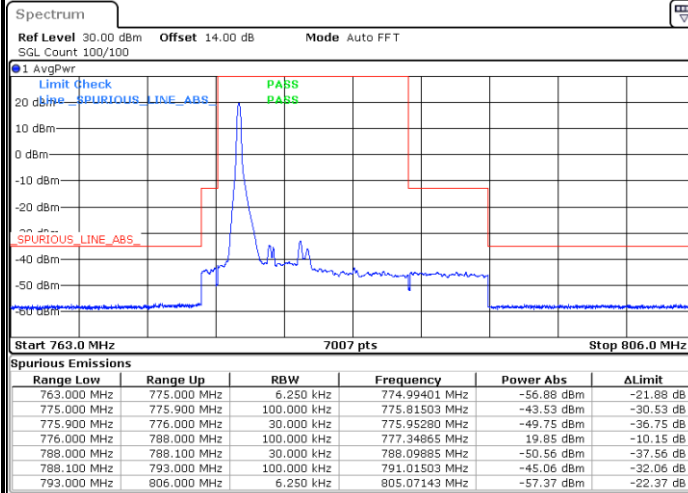


Date: 15.JUL.2025 02:22:14



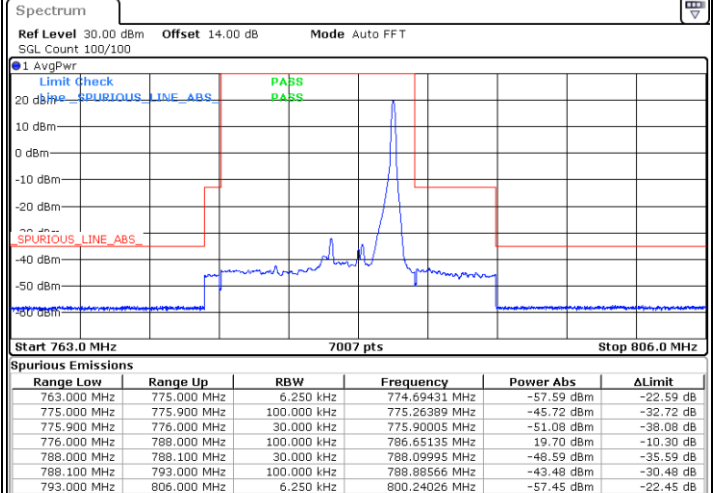
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



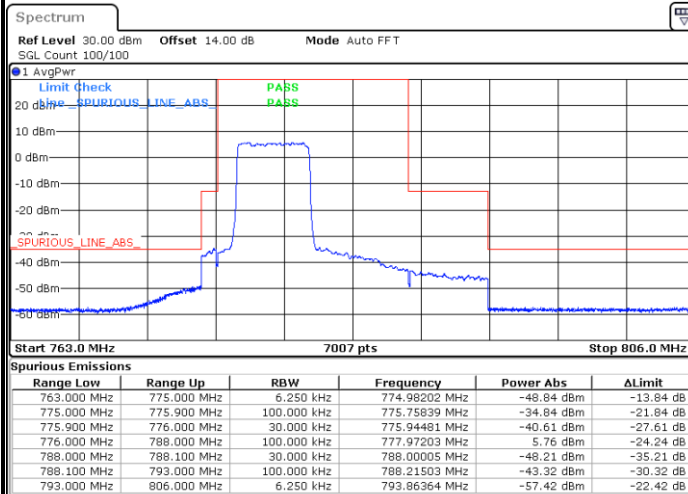
Date: 15.JUL.2025 02:12:45

Highest Band Edge / 1 RB



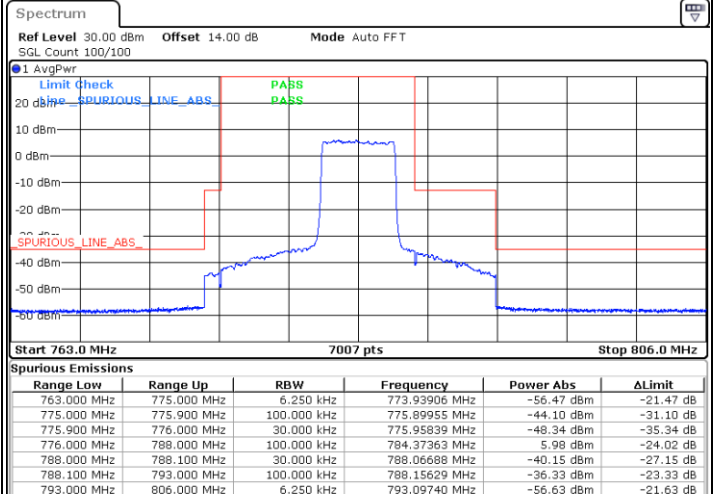
Date: 15.JUL.2025 02:20:42

Lowest Band Edge / Full RB



Date: 15.JUL.2025 02:15:04

Highest Band Edge / Full RB

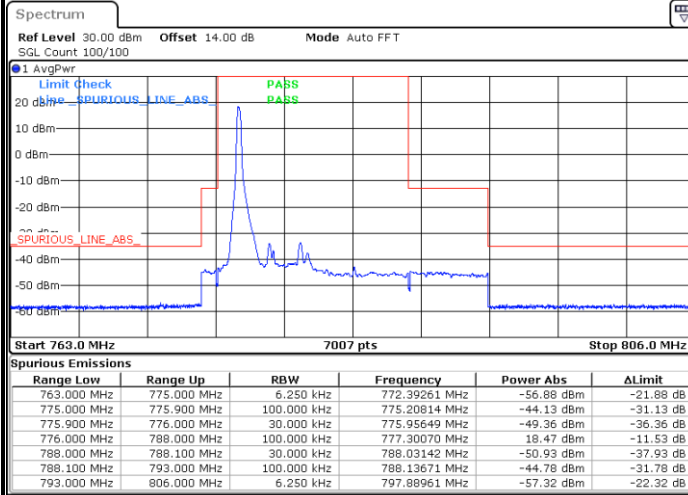


Date: 15.JUL.2025 02:23:01

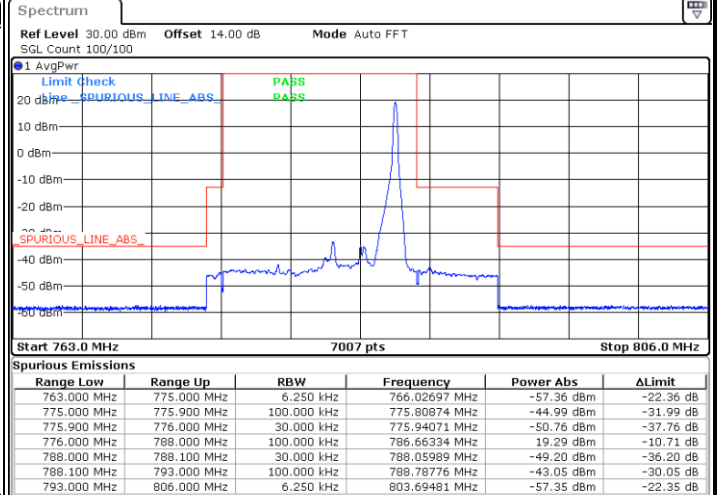


LTE Band 13 / 5MHz / 64QAM

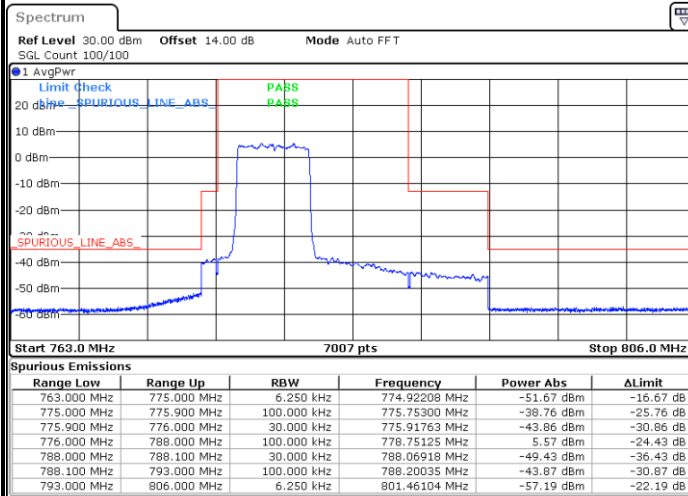
Lowest Band Edge / 1 RB



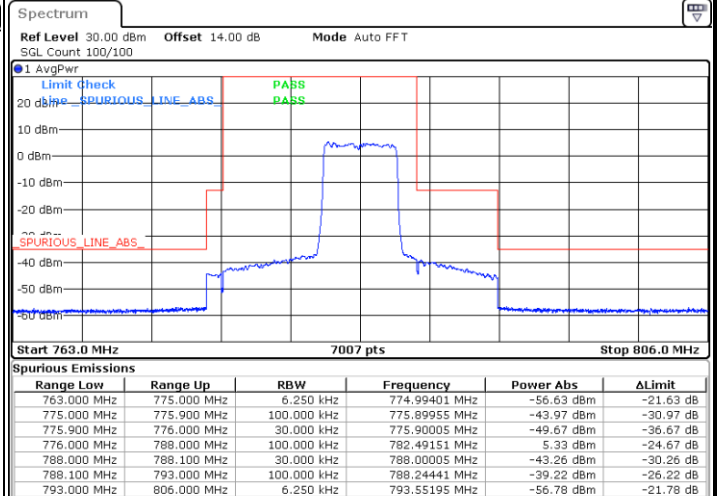
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



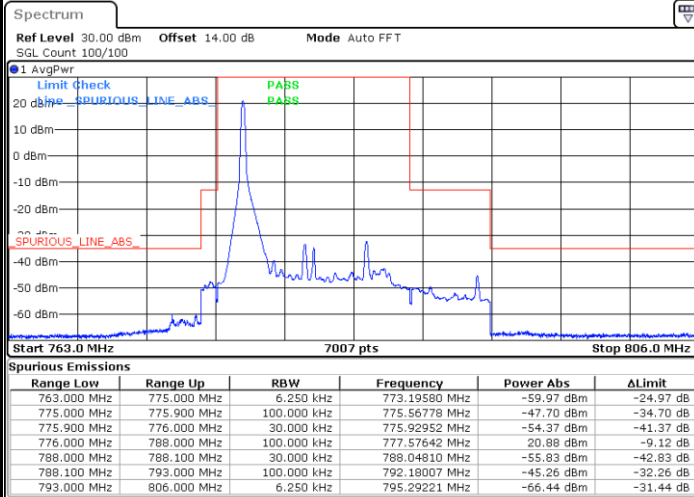
Highest Band Edge / Full RB





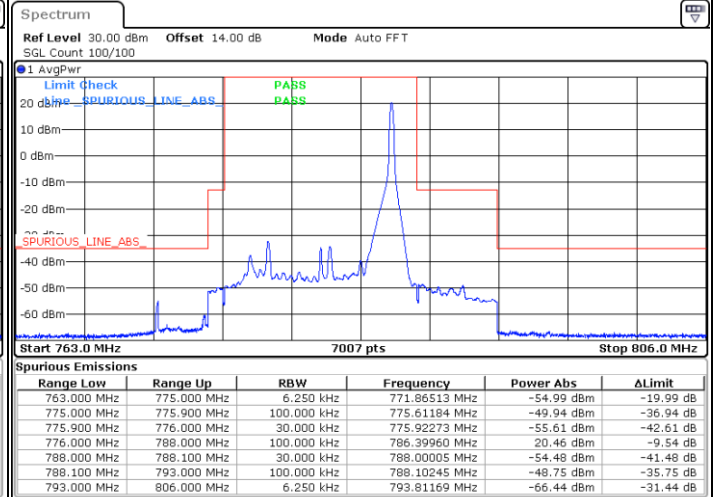
LTE Band 13 / 10MHz / QPSK

Band Edge / 1 RB



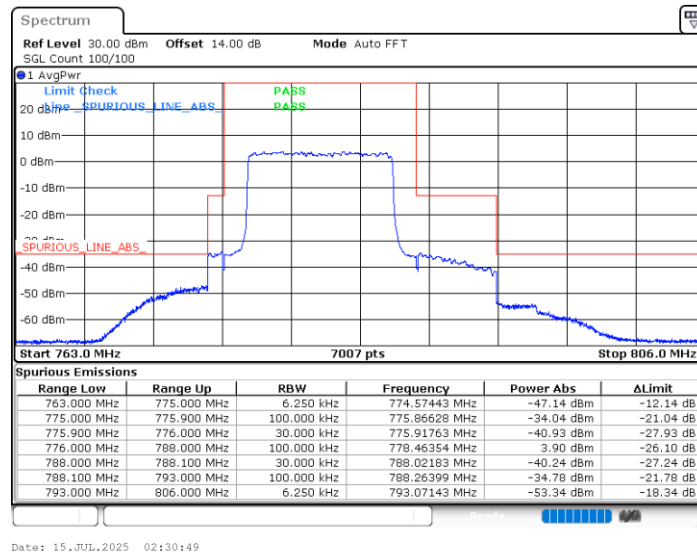
LTE Band 13 / 10MHz / QPSK

Band Edge / 1 RB



LTE Band 13 / 10MHz / QPSK

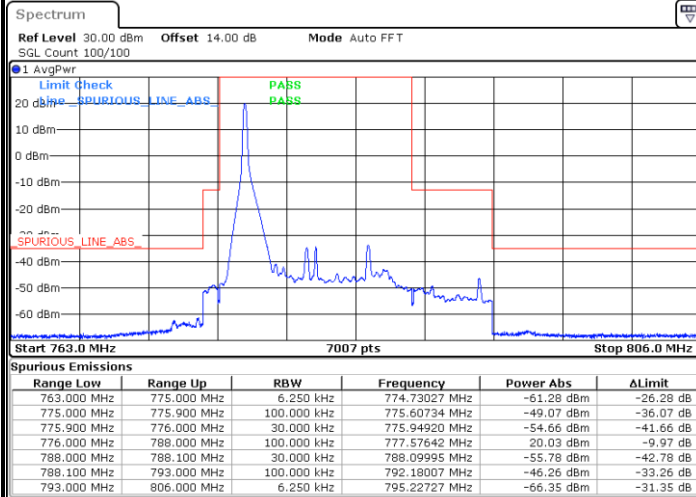
Band Edge / Full RB





LTE Band 13 / 10MHz / 16QAM

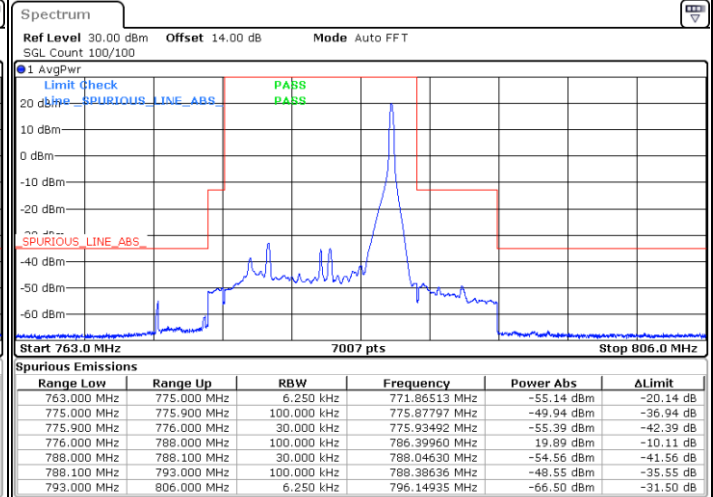
Band Edge / 1 RB



Date: 15.JUL.2025 02:27:02

LTE Band 13 / 10MHz / 16QAM

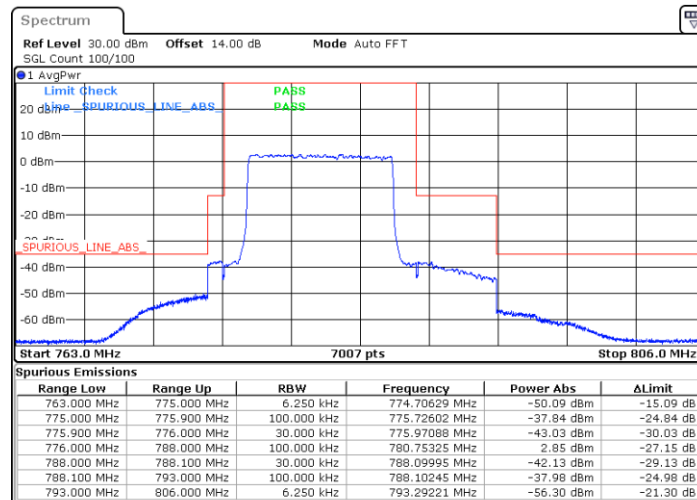
Band Edge / 1 RB



Date: 15.JUL.2025 02:29:18

LTE Band 13 / 10MHz / 16QAM

Band Edge / Full RB



Date: 15.JUL.2025 02:31:35