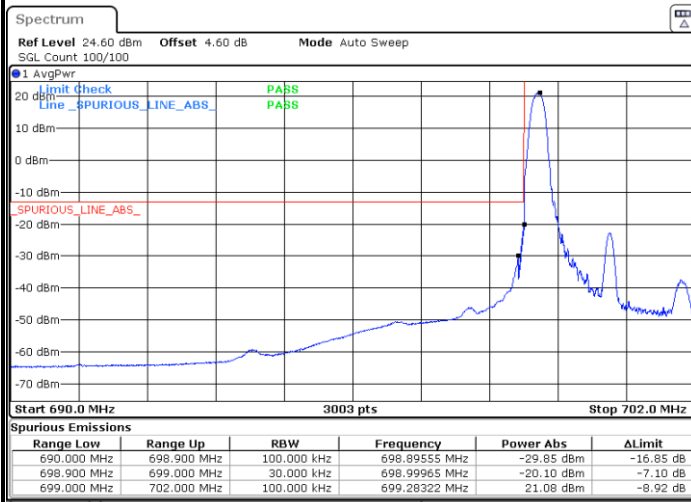


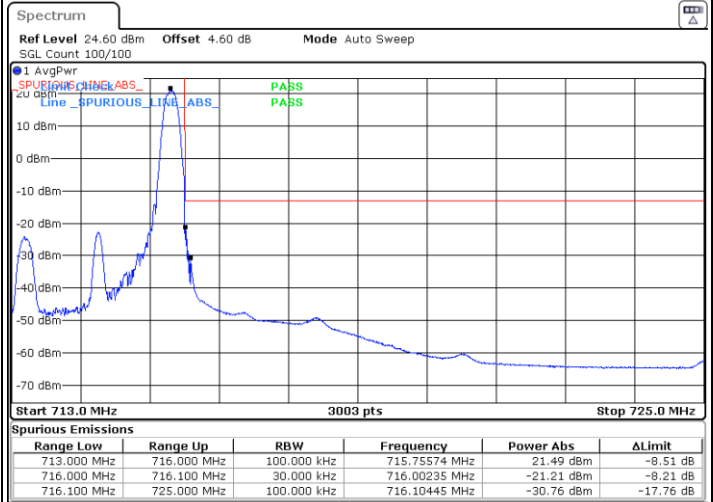


LTE Band 12 / 3MHz / QPSK

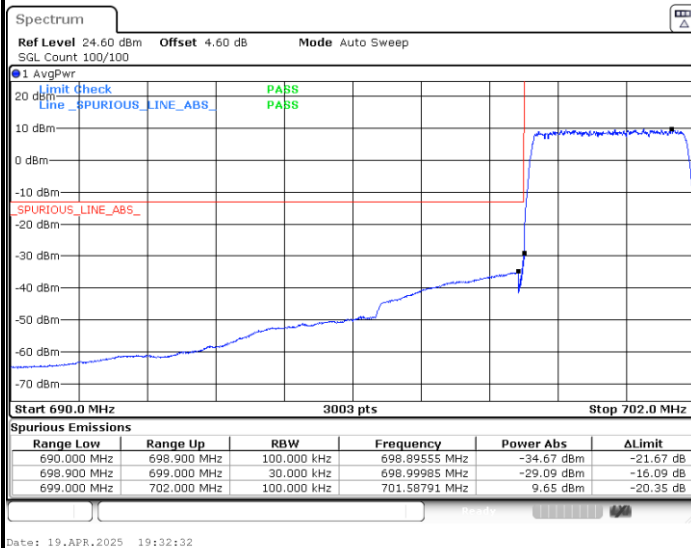
Lowest Band Edge / 1RB



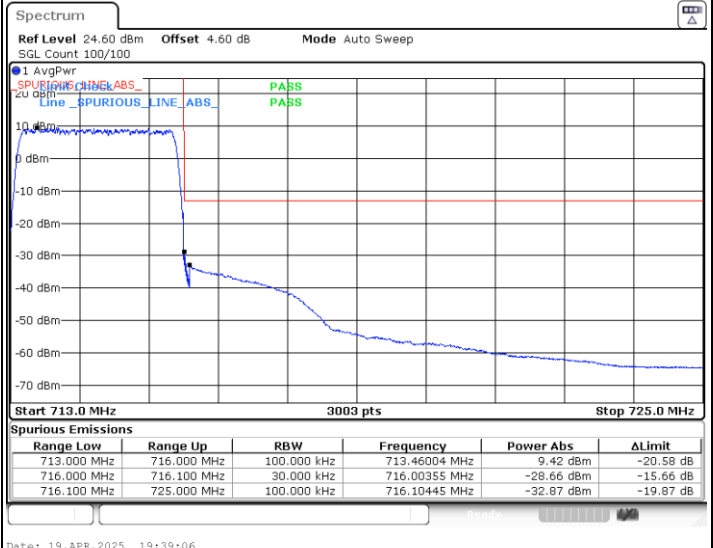
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



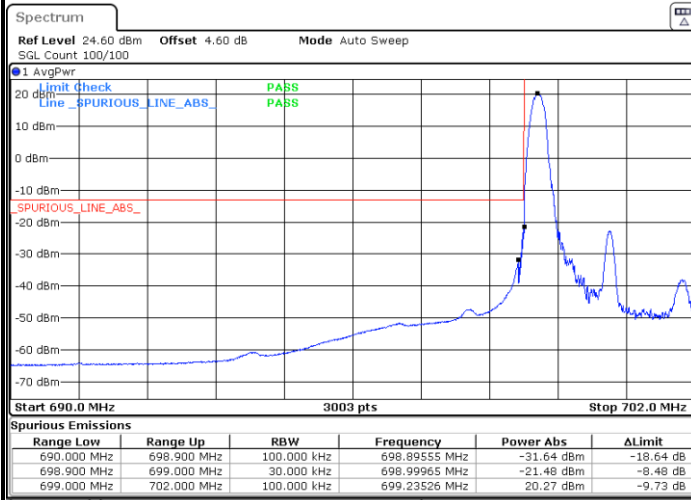
Highest Band Edge / Full RB



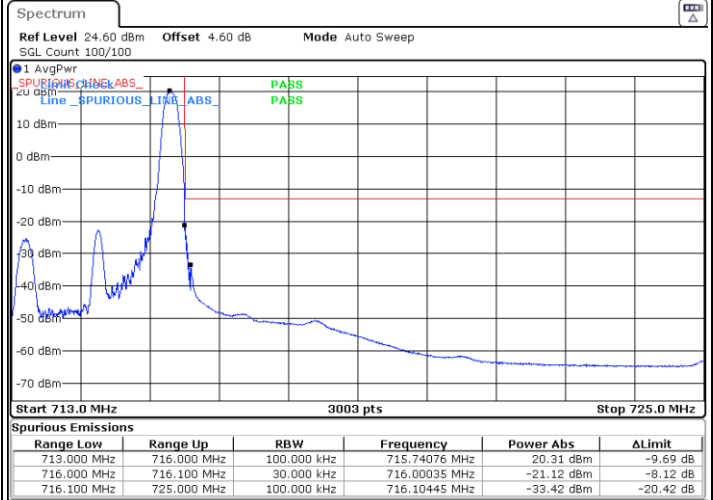


LTE Band 12 / 3MHz / 16QAM

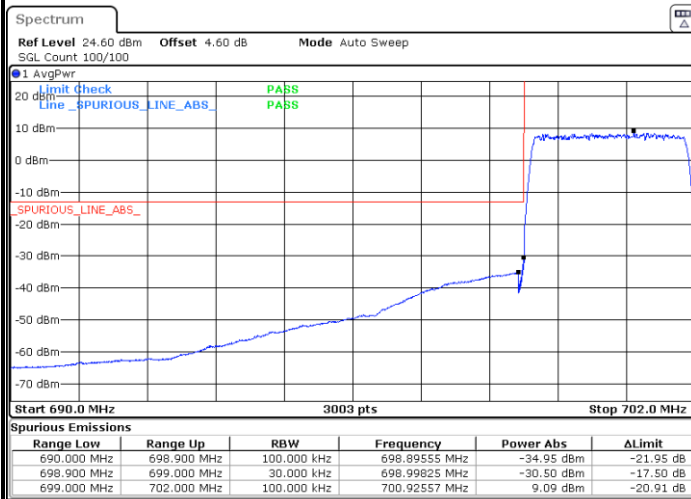
Lowest Band Edge / 1 RB



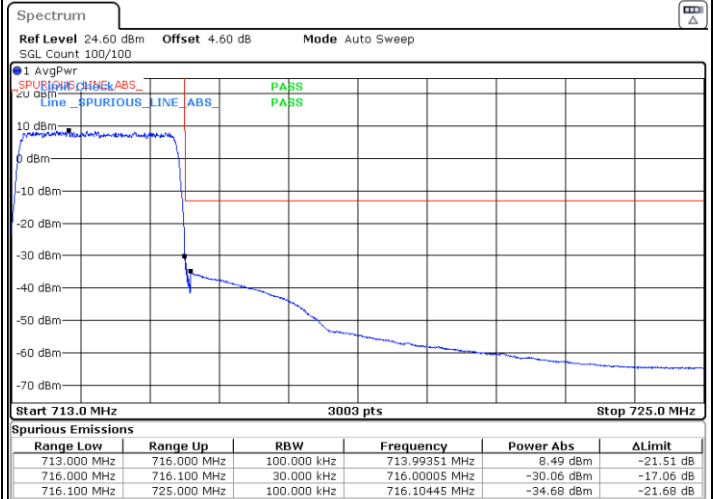
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



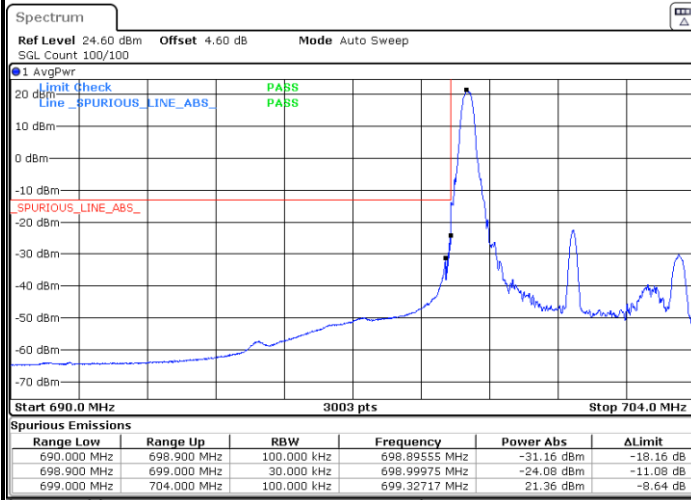
Highest Band Edge / Full RB



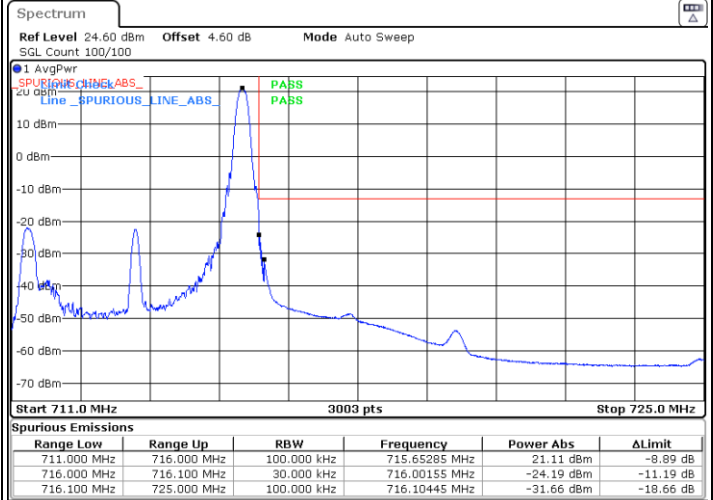


LTE Band 12 / 5MHz / QPSK

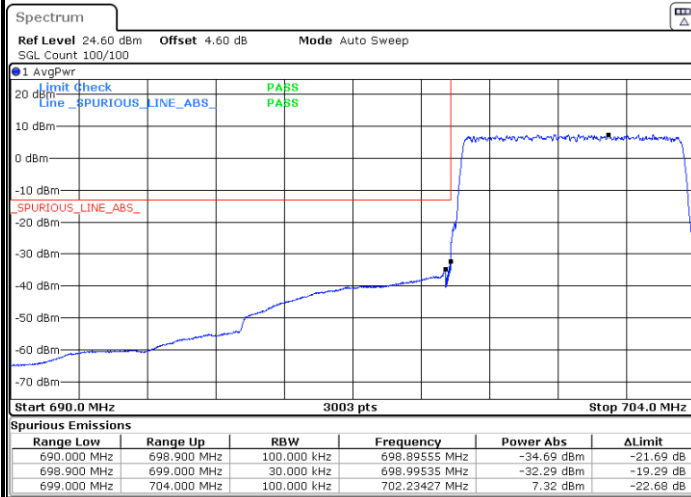
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



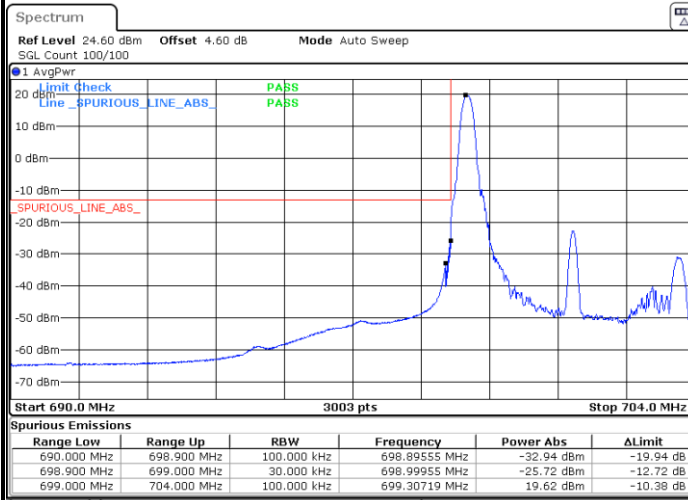
Highest Band Edge / Full RB



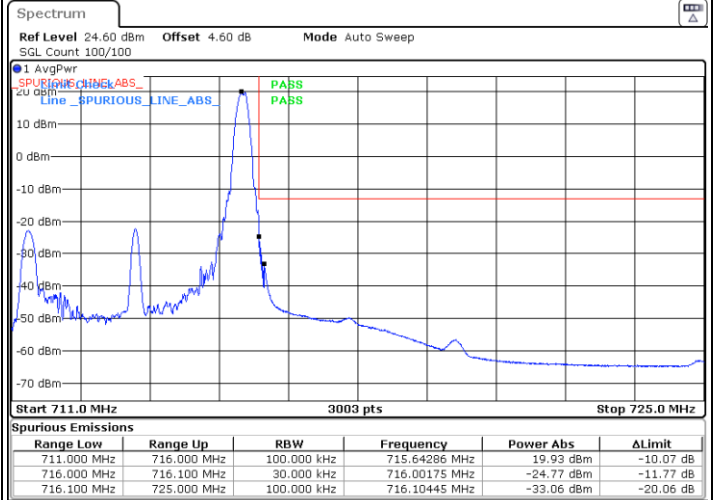


LTE Band 12 / 5MHz / 16QAM

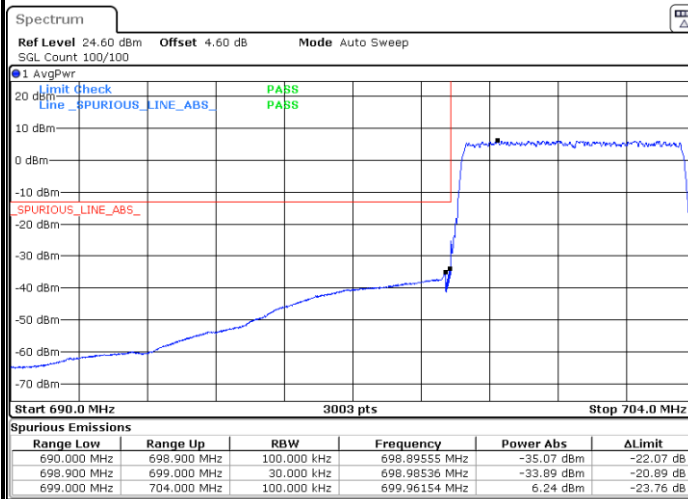
Lowest Band Edge / 1RB



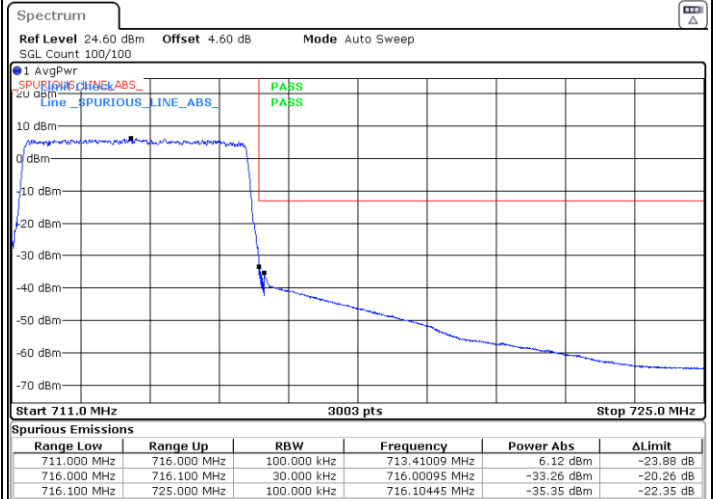
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



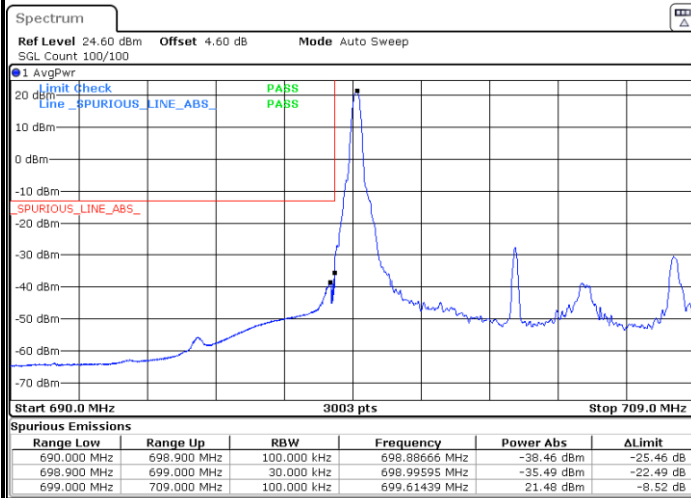
Highest Band Edge / Full RB



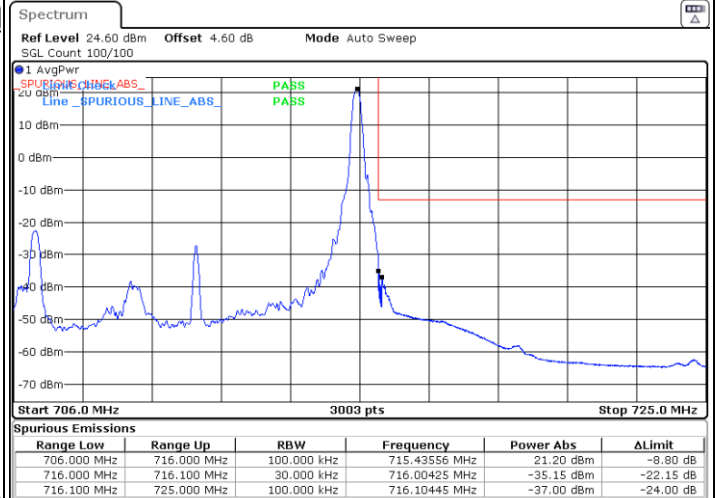


LTE Band 12 / 10MHz / QPSK

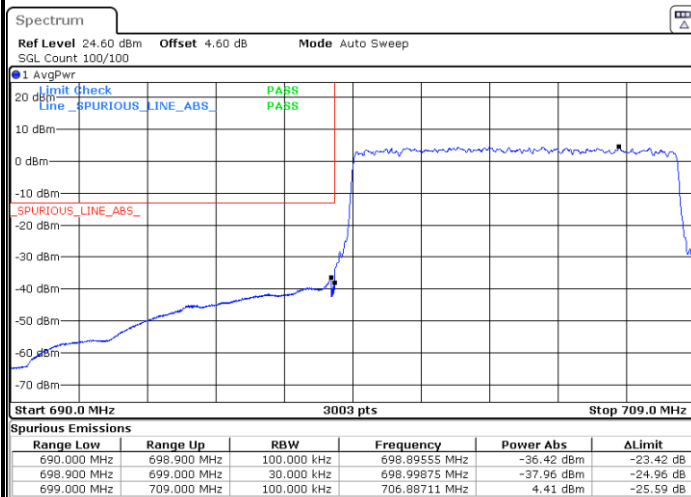
Lowest Band Edge / 1 RB



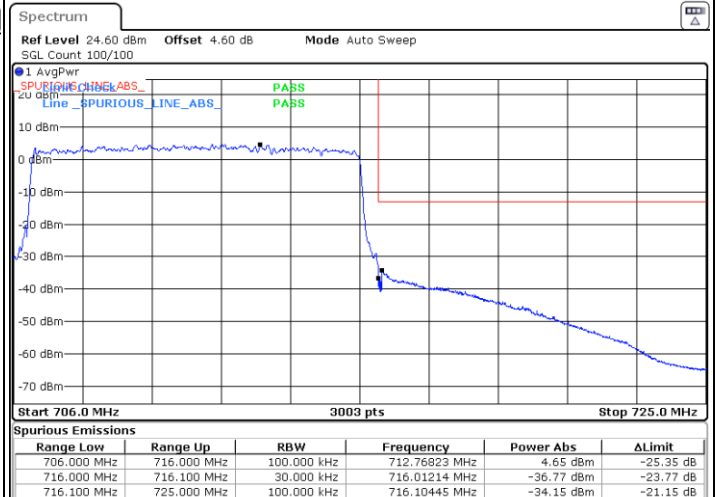
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



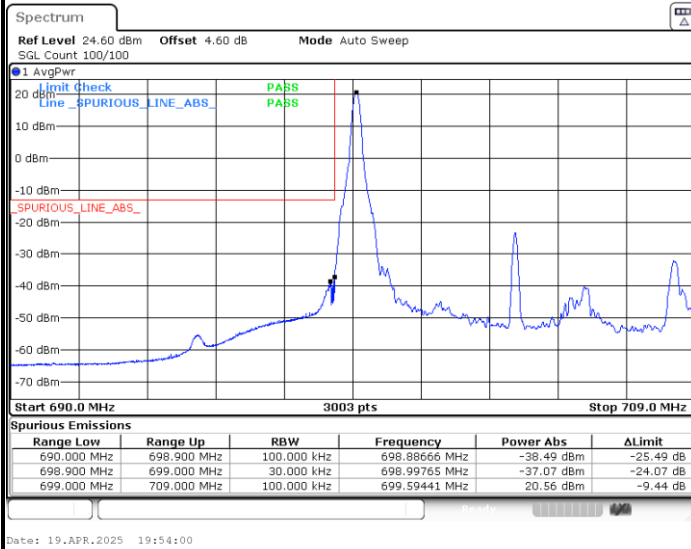
Highest Band Edge / Full RB



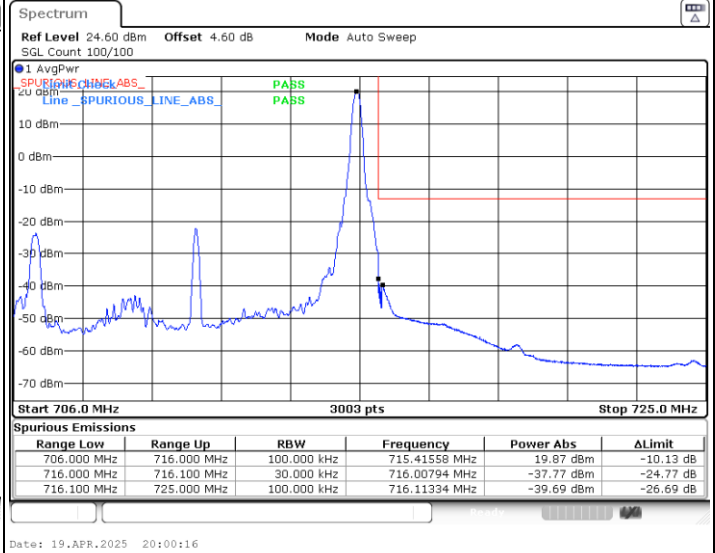


LTE Band 12 / 10MHz / 16QAM

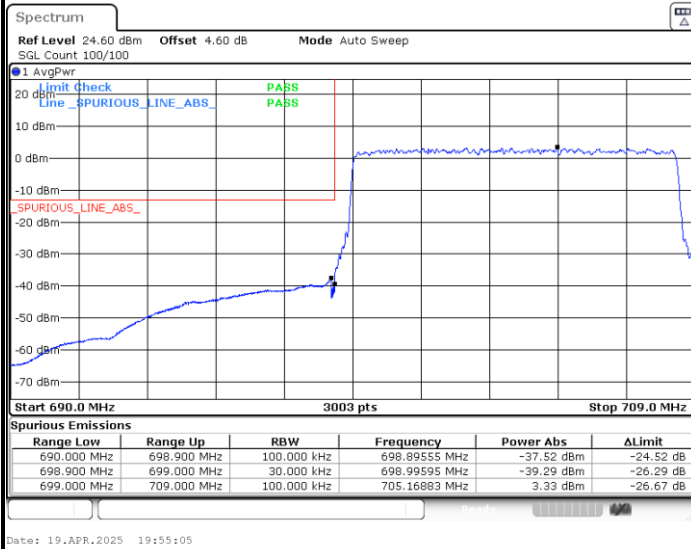
Lowest Band Edge / 1 RB



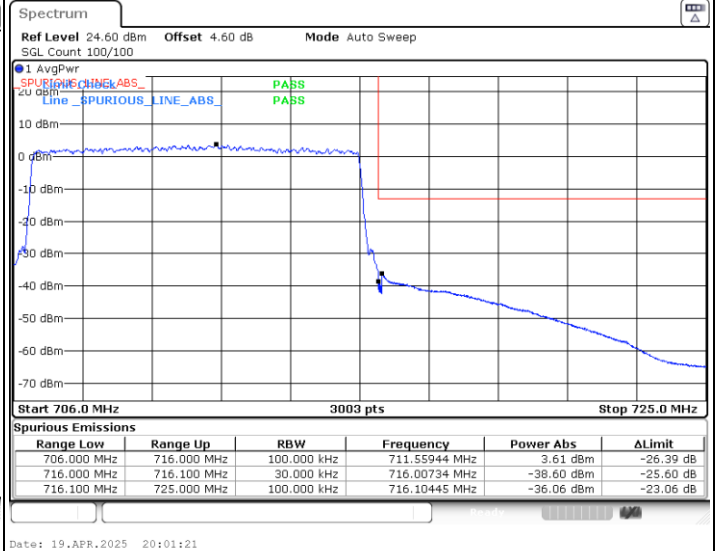
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

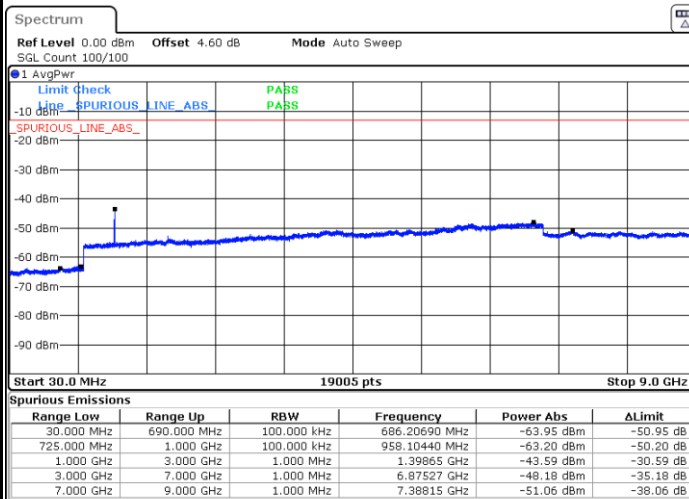




Conducted Spurious Emission

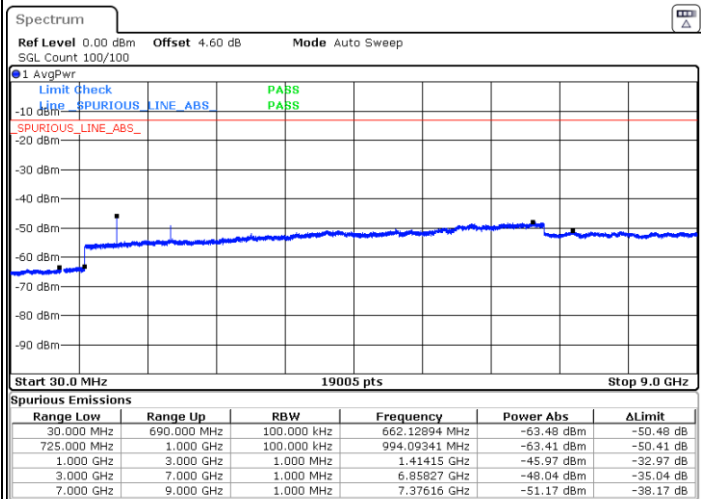
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



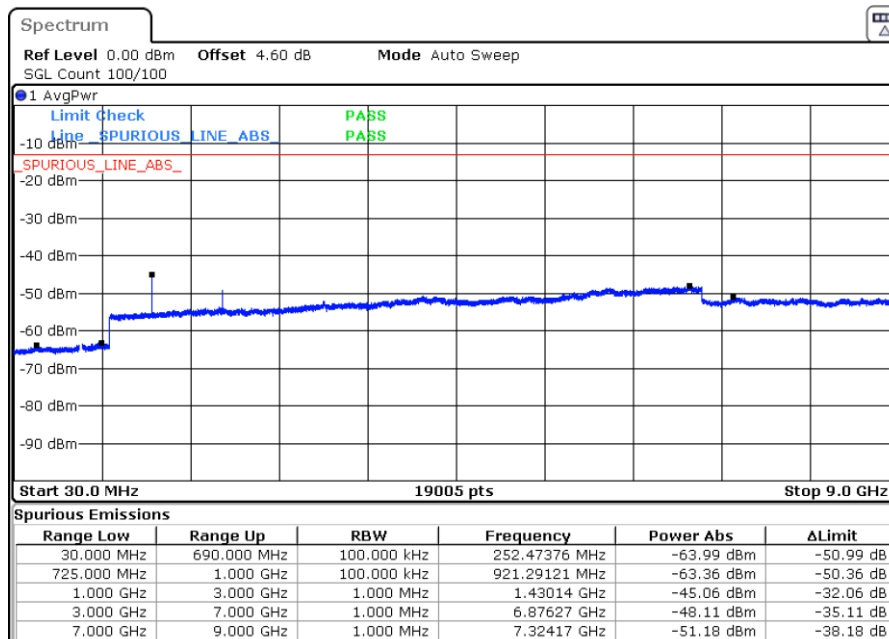
Date: 19.APR.2025 19:16:34

Middle Channel / QPSK



Date: 19.APR.2025 19:21:53

Highest Channel / QPSK

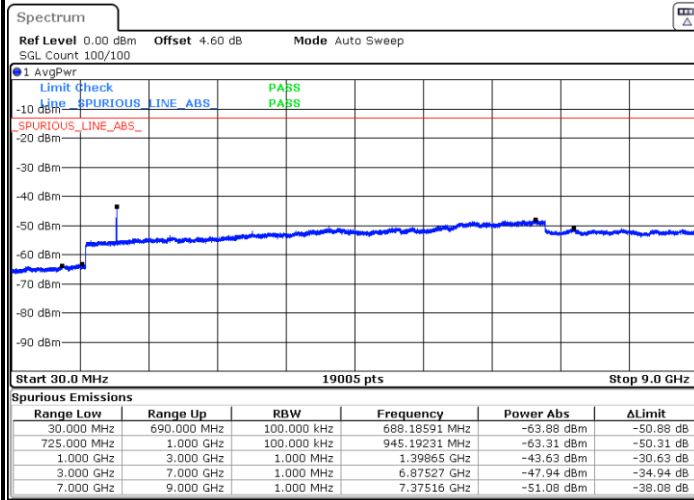


Date: 19.APR.2025 19:22:50



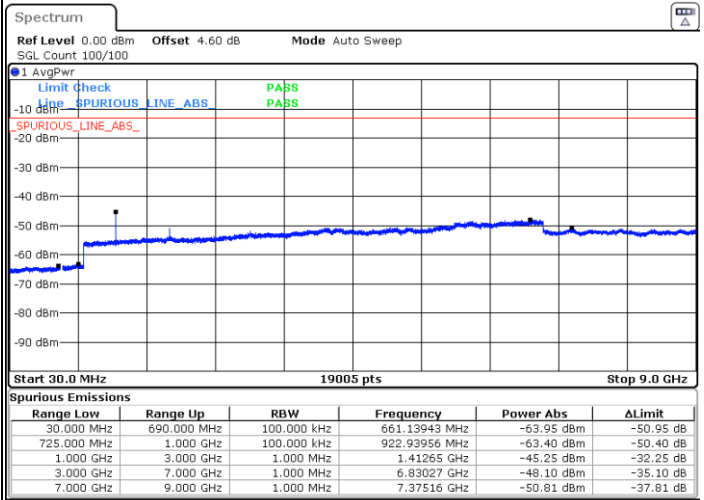
LTE Band 12 / 3MHz

Lowest Channel / QPSK



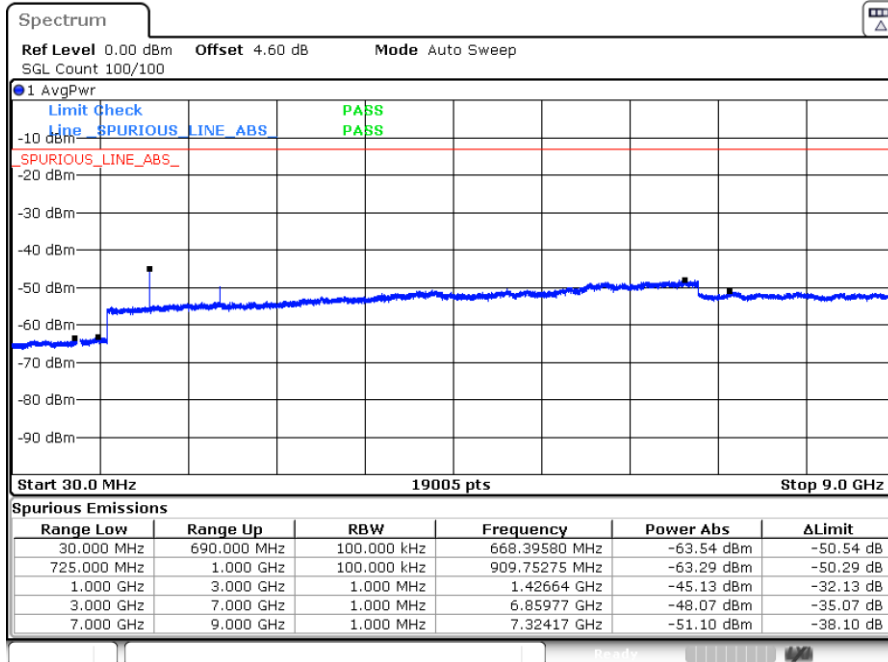
Date: 19.APR.2025 19:28:10

Middle Channel / QPSK



Date: 19.APR.2025 19:33:29

Highest Channel / QPSK

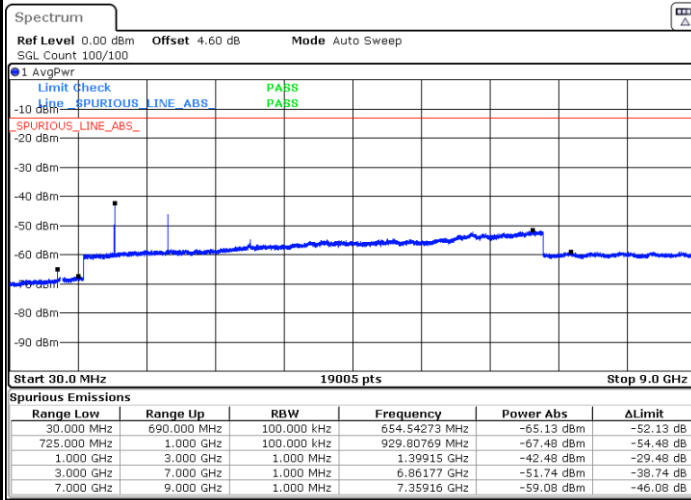


Date: 19.APR.2025 19:34:44



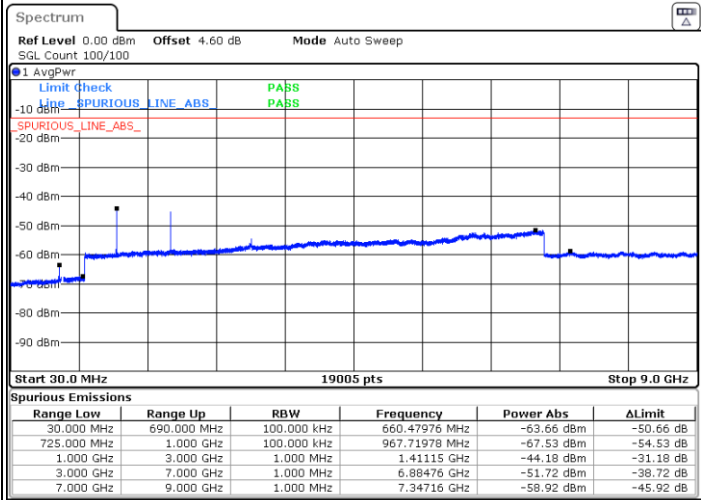
LTE Band 12 / 5MHz

Lowest Channel / QPSK



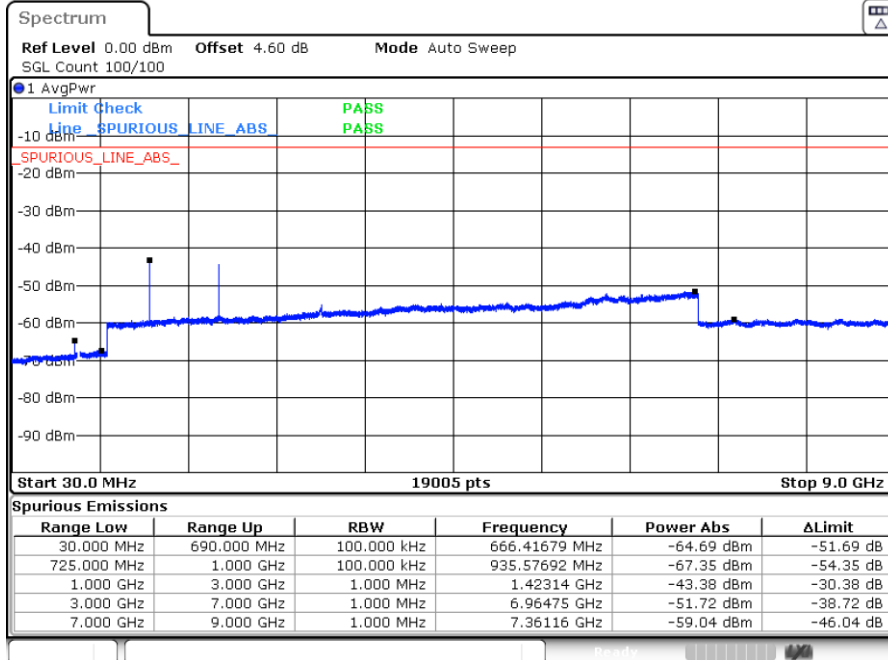
Date: 19.APR.2025 19:40:04

Middle Channel / QPSK



Date: 19.APR.2025 19:45:22

Highest Channel / QPSK

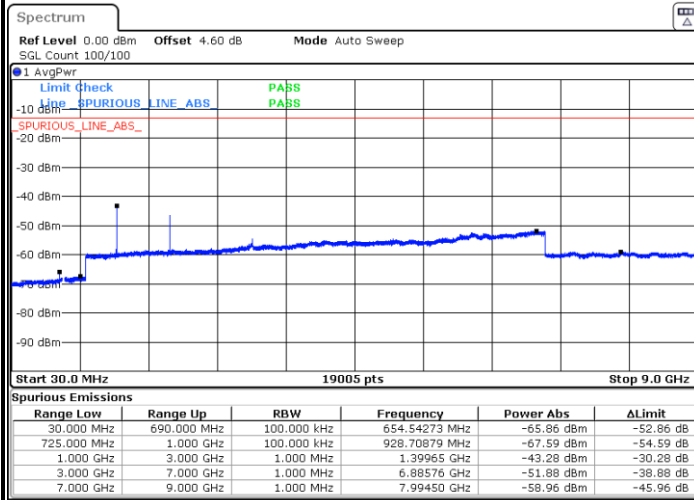


Date: 19.APR.2025 19:46:19



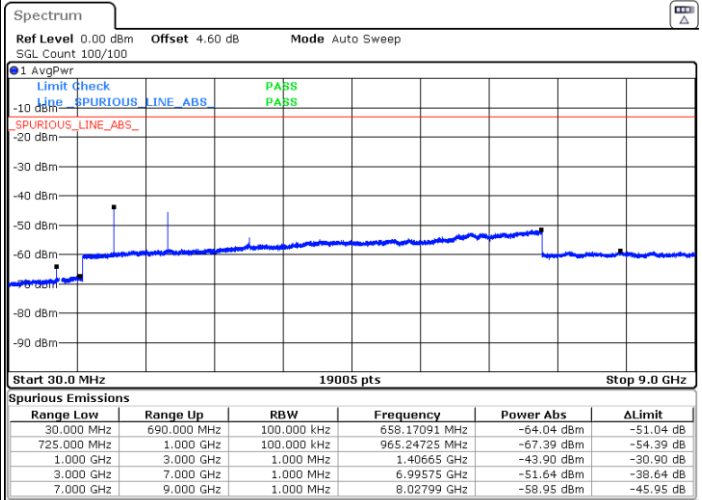
LTE Band 12 / 10MHz

Lowest Channel / QPSK



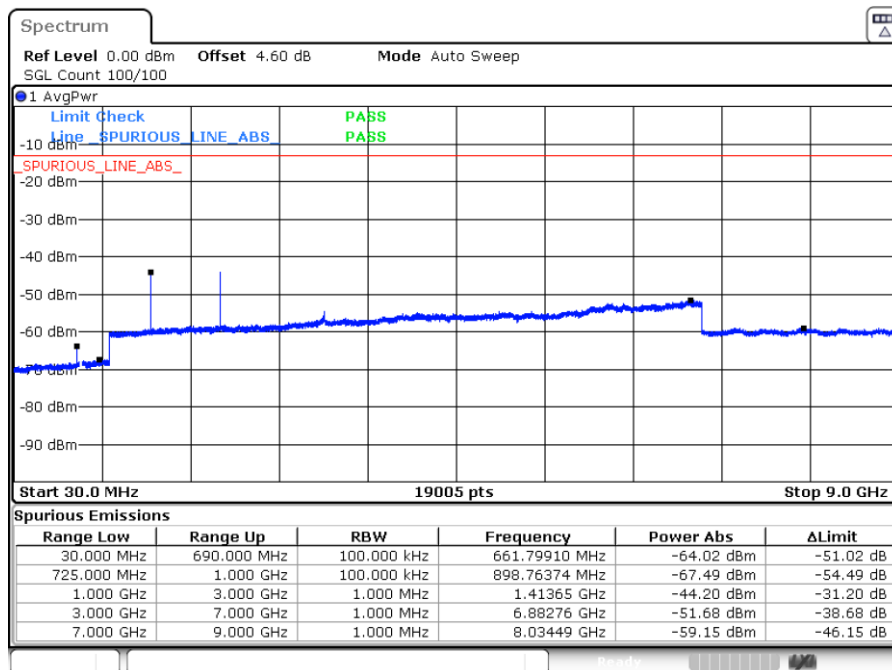
Date: 19.APR.2025 19:51:39

Middle Channel / QPSK



Date: 19.APR.2025 19:57:08

Highest Channel / QPSK



Date: 19.APR.2025 19:58:05

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	0.0033	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0039	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0015	
20	Minimum Voltage	0.0009	

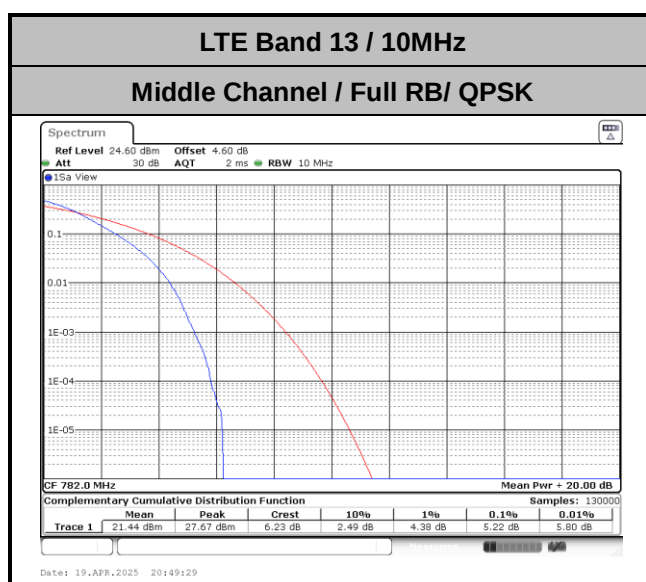
Note:

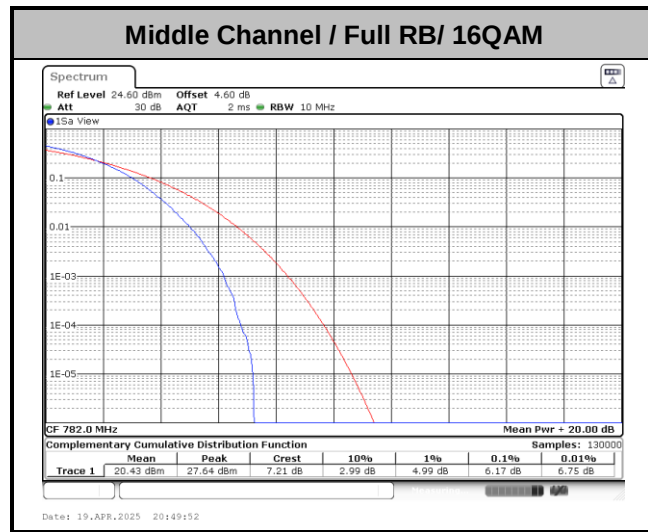
1. Normal Voltage =12 V. ; Minimum Voltage =10.8 V. ; Maximum Voltage =13.2V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

Peak-to-Average Ratio

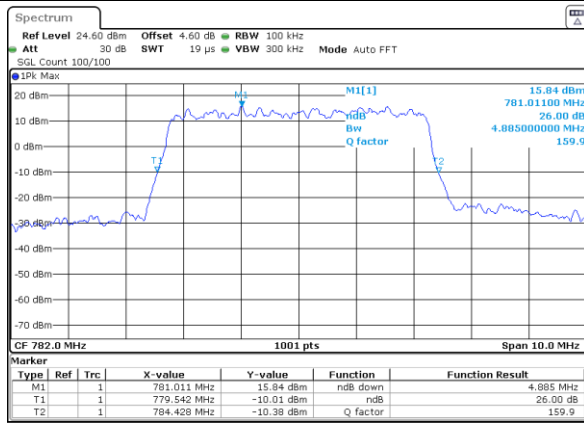
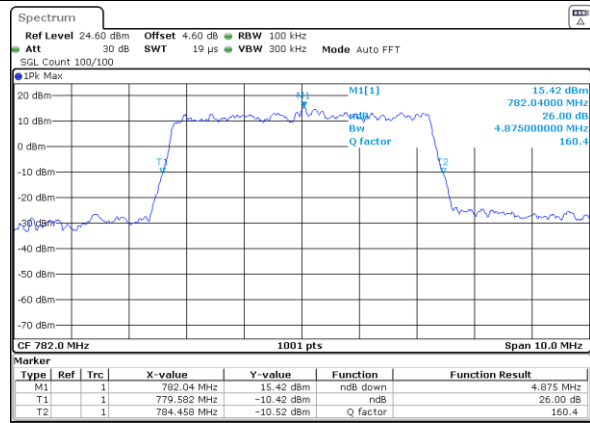
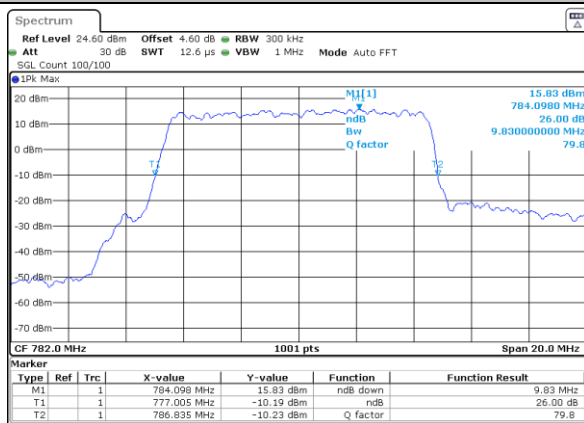
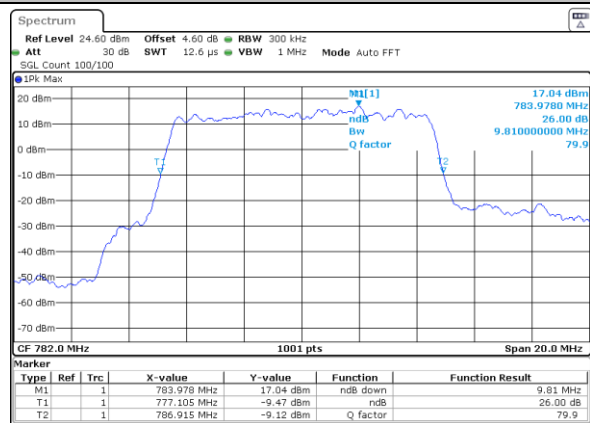
Mode	LTE Band 13 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.22	6.17	PASS





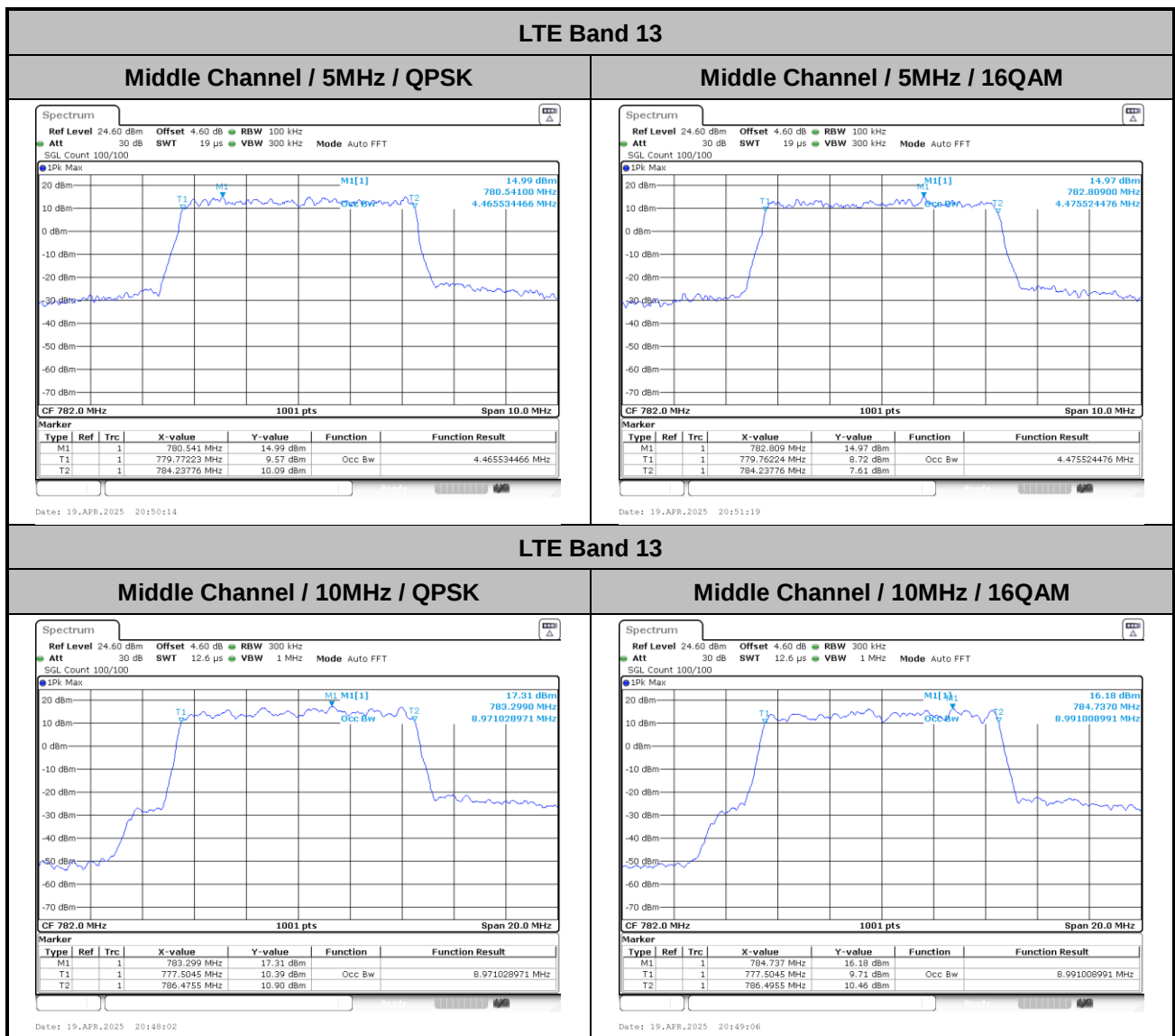
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.89	4.88
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.81

LTE Band 13**Middle Channel / 5MHz / QPSK****Middle Channel / 5MHz / 16QAM****LTE Band 13****Middle Channel / 10MHz / QPSK****Middle Channel / 10MHz / 16QAM**

Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.47	4.48
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.97	8.99

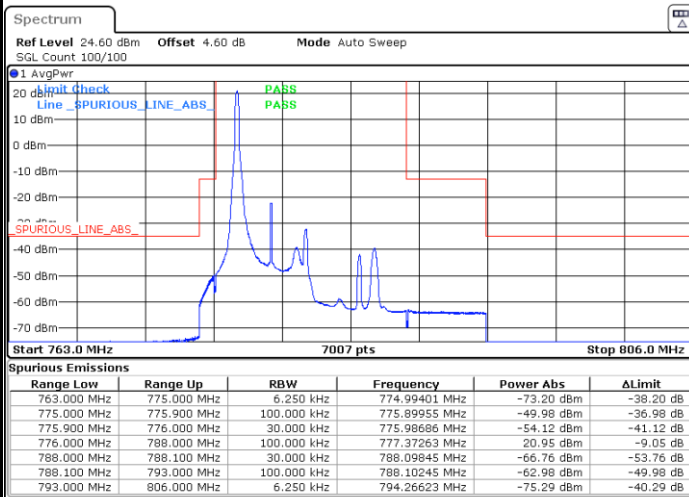




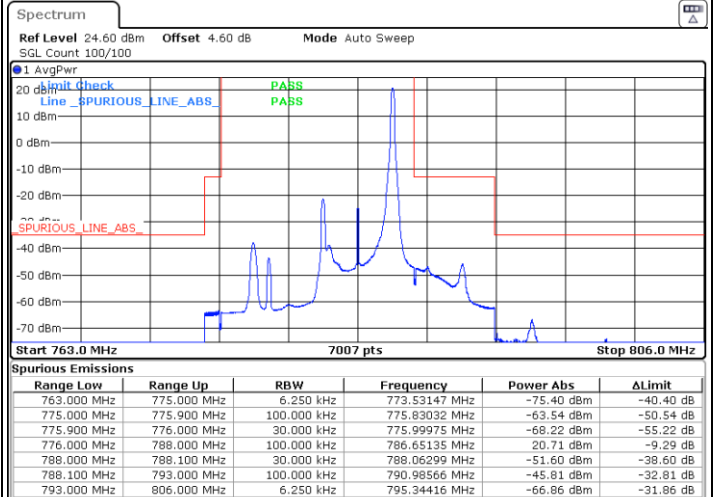
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

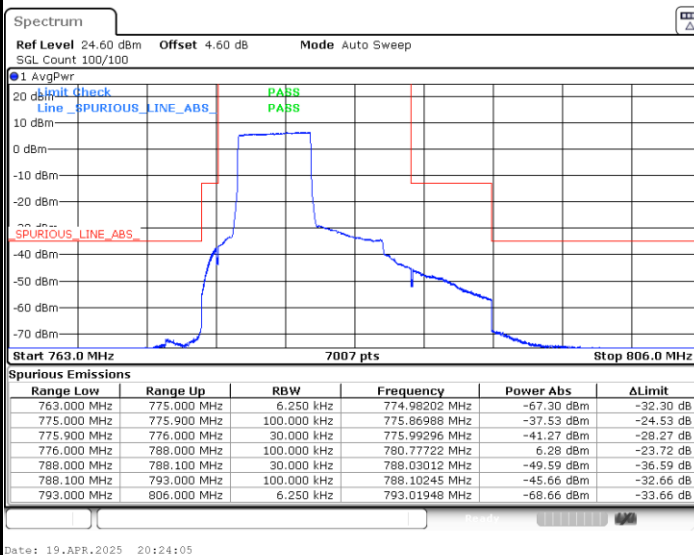
Lowest Band Edge / 1 RB



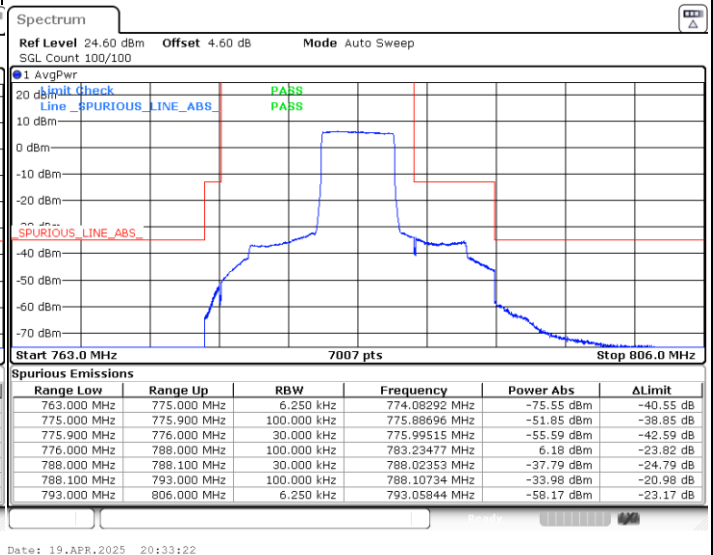
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



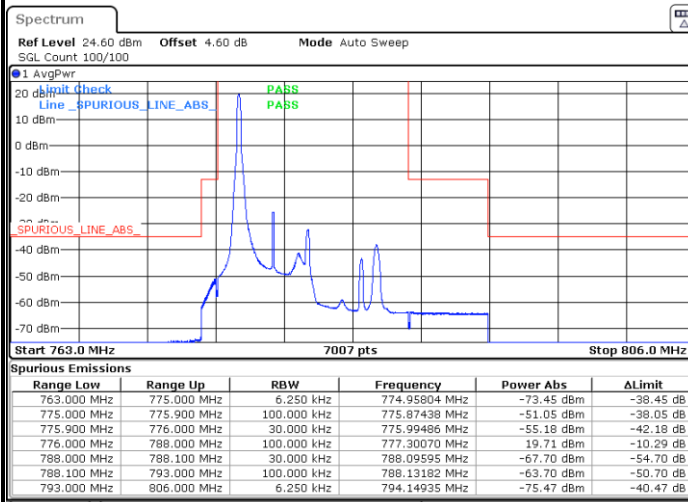
Highest Band Edge / Full RB



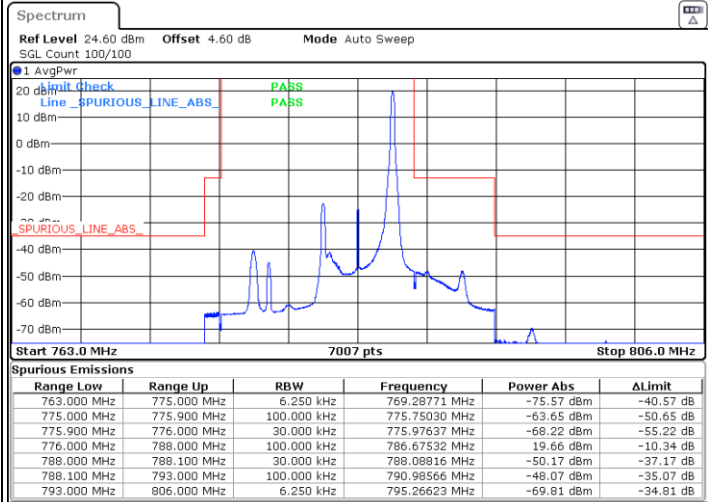


LTE Band 13 / 5MHz / 16QAM

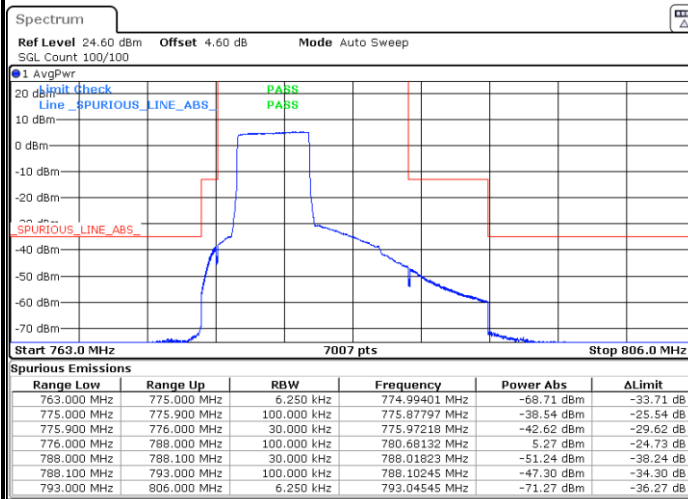
Lowest Band Edge / 1RB



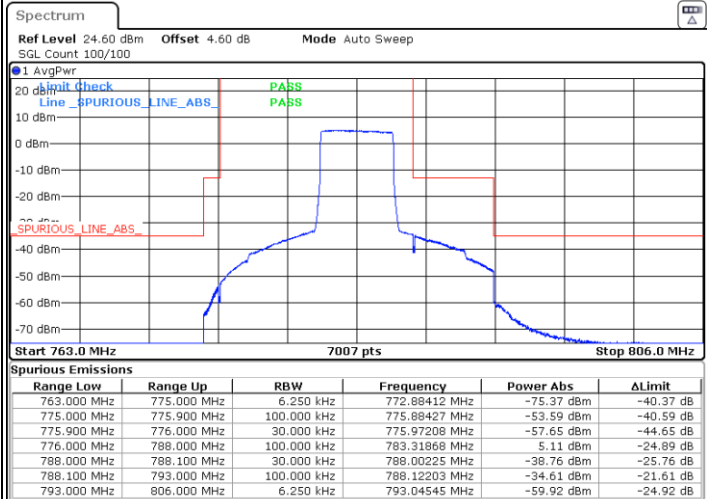
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



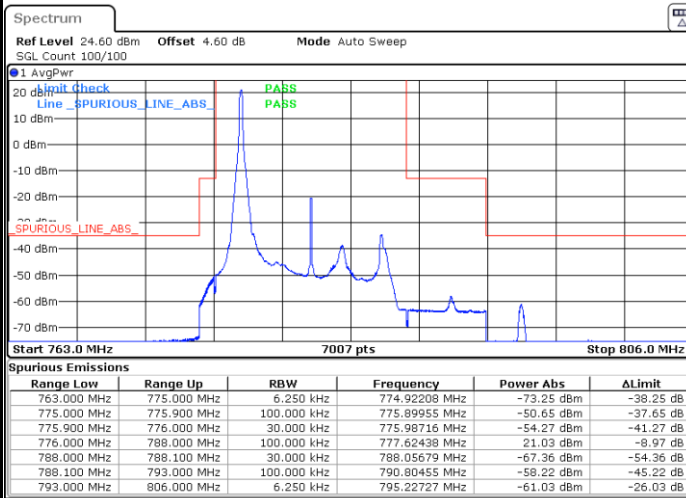
Highest Band Edge / Full RB





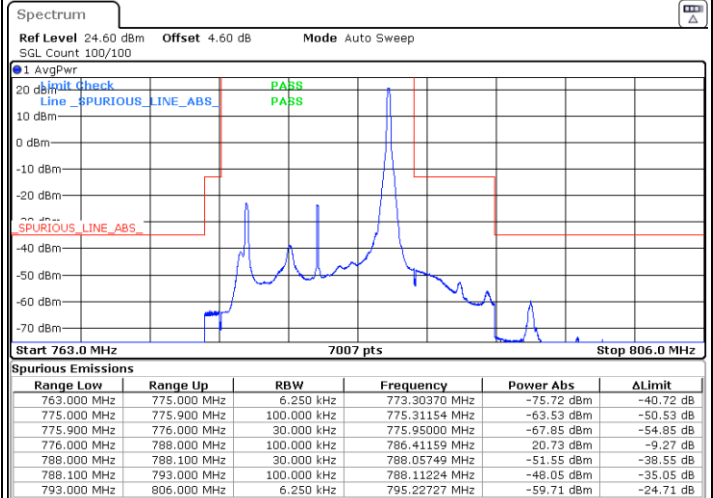
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



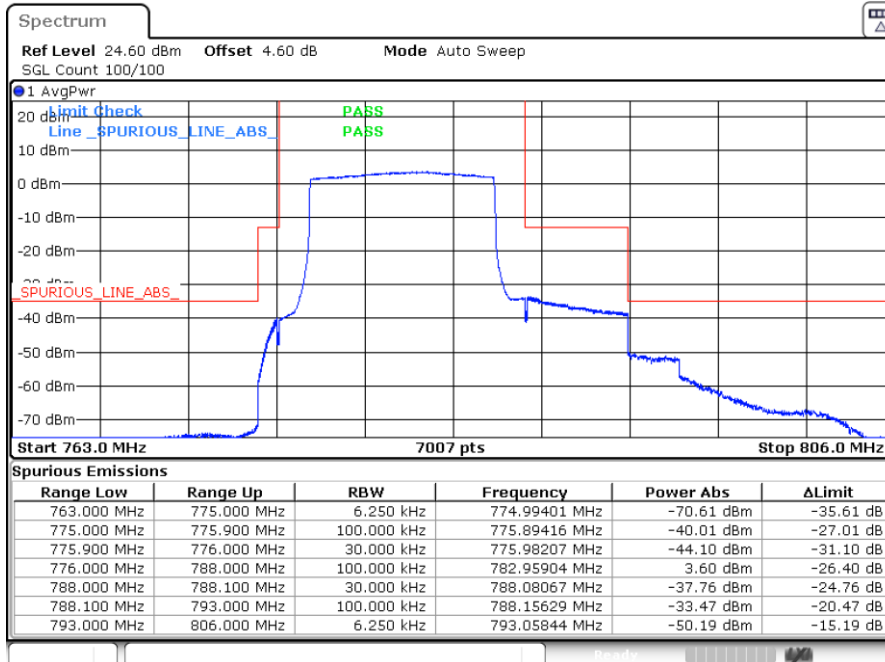
Date: 19.APR.2025 20:38:07

middle Band Edge / 1 RB



Date: 19.APR.2025 20:45:51

Middle Band Edge / Full RB

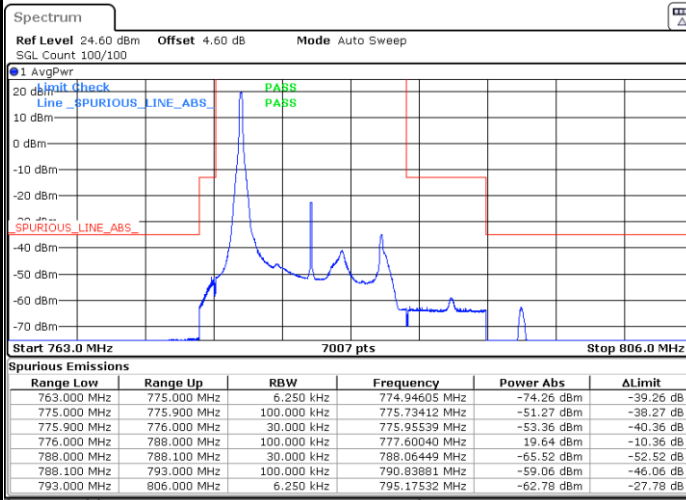


Date: 19.APR.2025 20:41:57



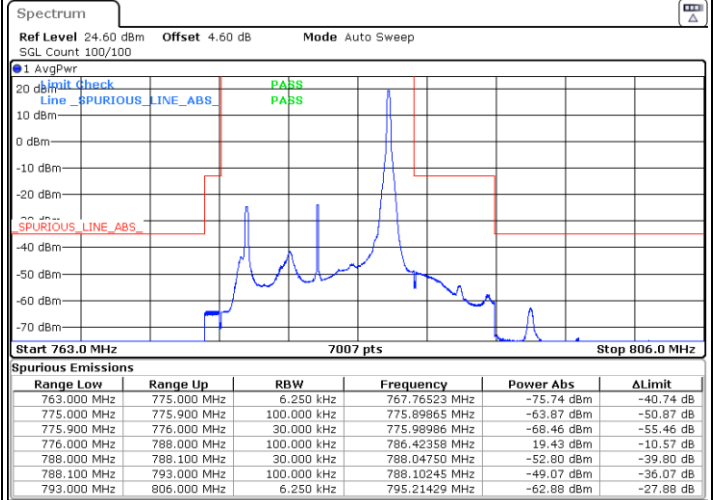
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



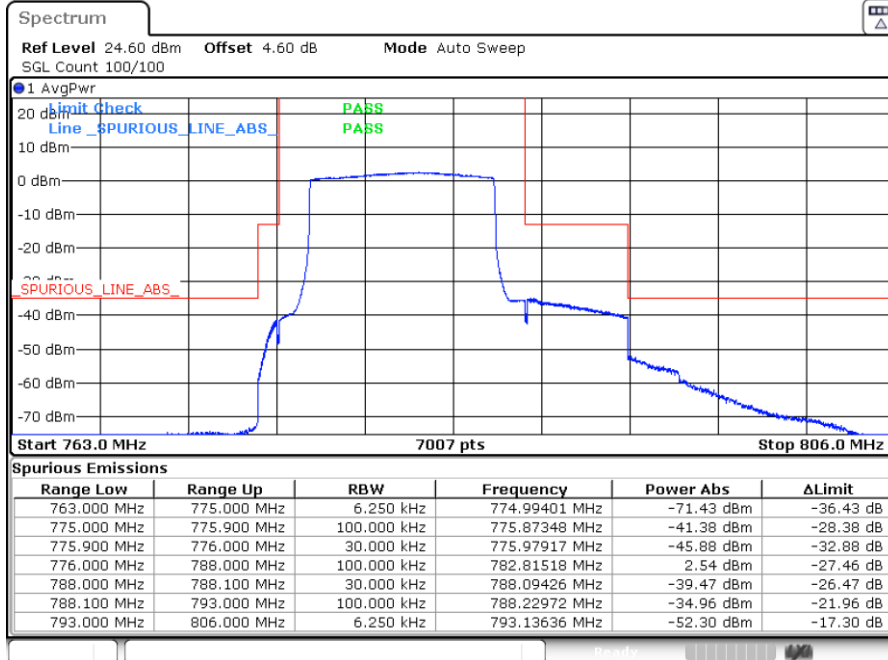
Date: 19.APR.2025 20:40:07

middle Band Edge / 1 RB



Date: 19.APR.2025 20:47:40

middle Band Edge / Full RB



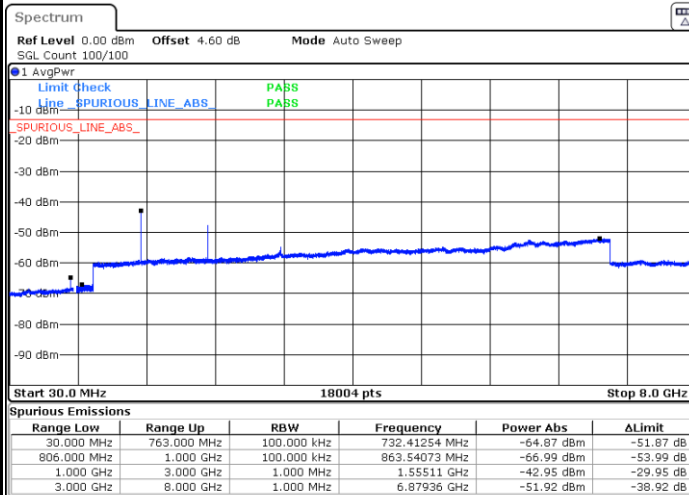
Date: 19.APR.2025 20:44:01



Conducted Spurious Emission

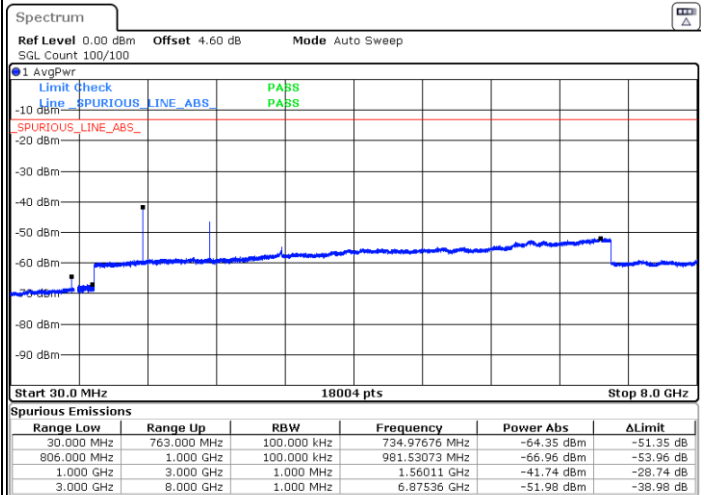
LTE Band 13 / 5MHz

Lowest Channel / QPSK



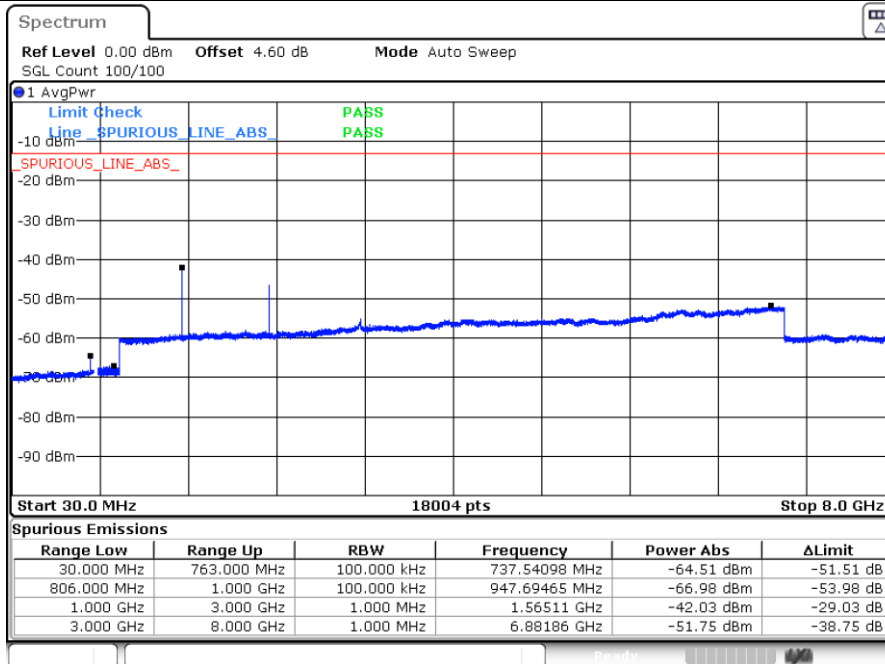
Date: 19.APR.2025 20:18:33

Middle Channel / QPSK



Date: 19.APR.2025 20:26:53

Highest Channel / QPSK

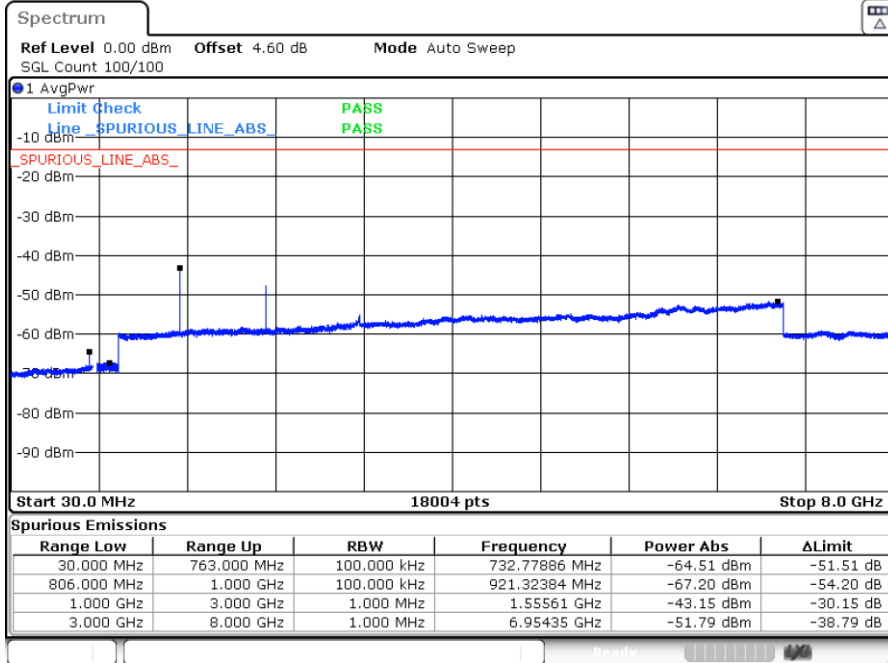


Date: 19.APR.2025 20:27:50



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 19.APR.2025 20:36:10

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	0.0044	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0041	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0034	
20	Normal Voltage	0.0017	
20	Minimum Voltage	0.0024	

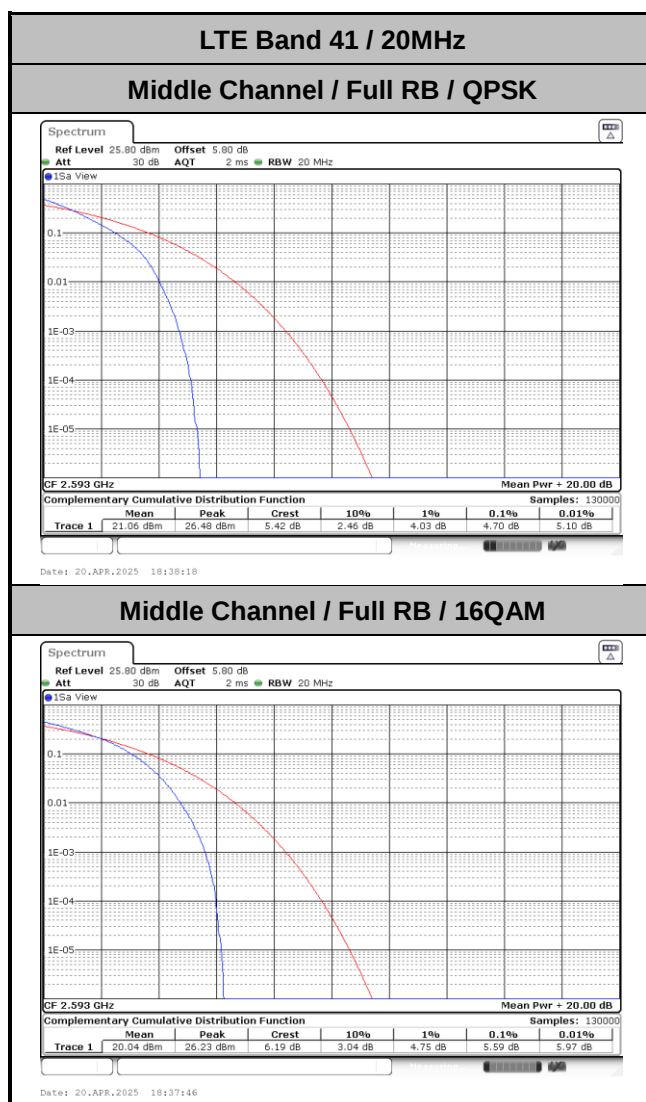
Note:

1. Normal Voltage =12 V. ; Minimum Voltage =10.8 V. ; Maximum Voltage =13.2V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 41

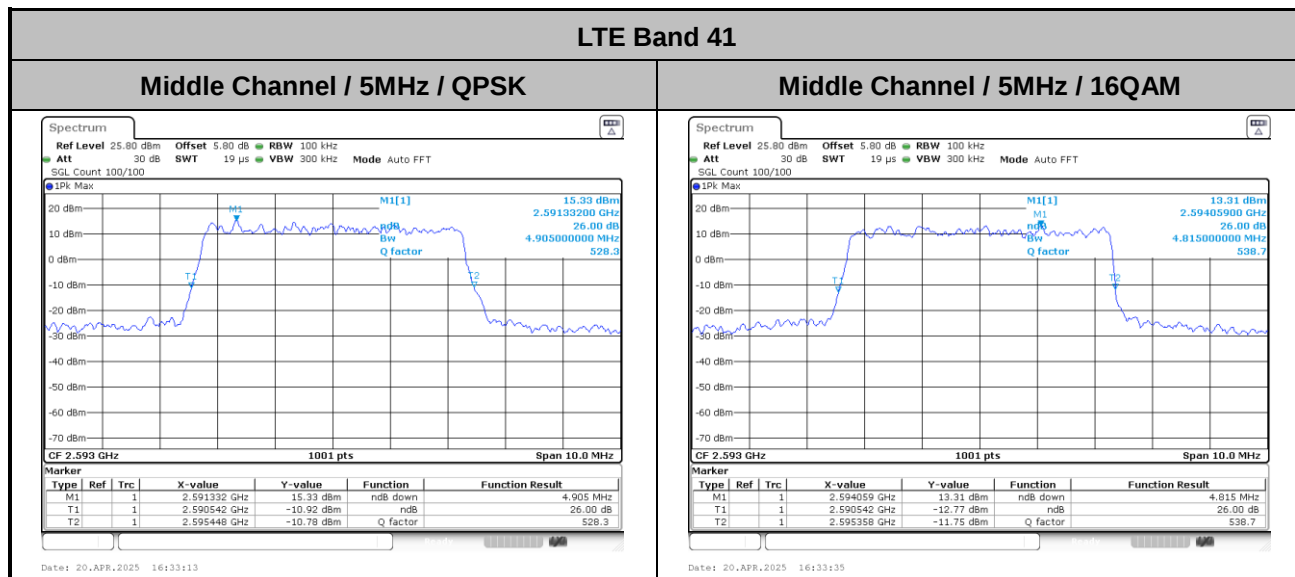
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.70	5.59	PASS



**26dB Bandwidth**

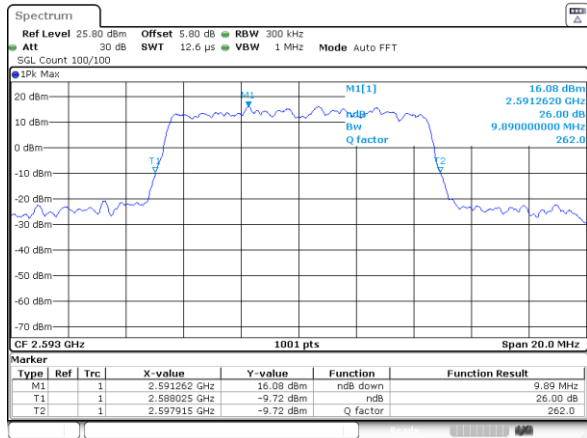
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.91	4.82
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	9.83
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.24	14.42
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.66	19.14





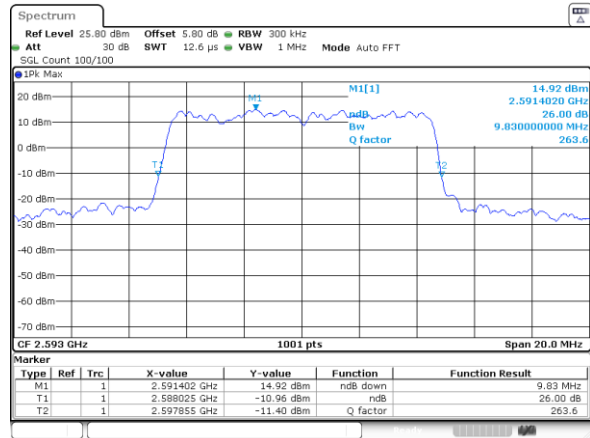
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 20.APR.2025 16:35:01

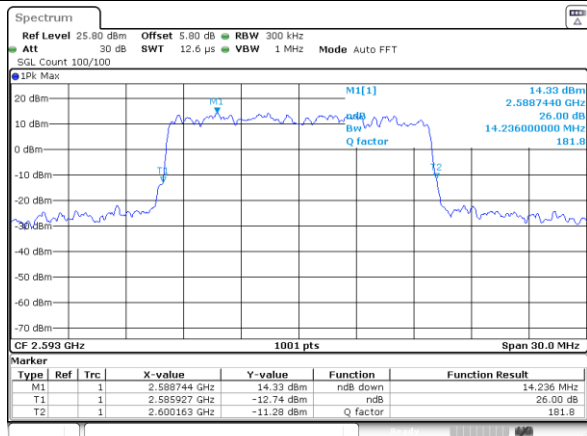
Middle Channel / 10MHz / 16QAM



Date: 20.APR.2025 16:34:40

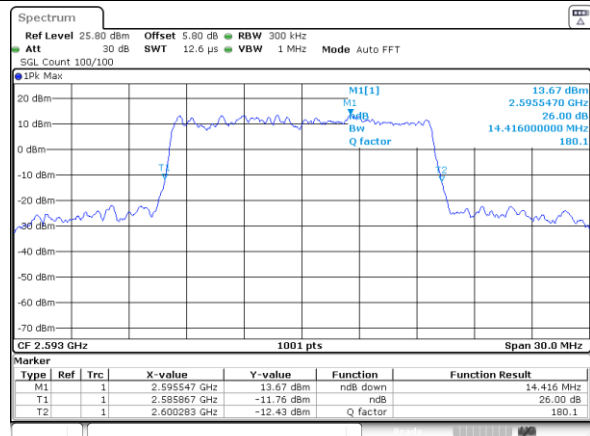
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 20.APR.2025 16:36:06

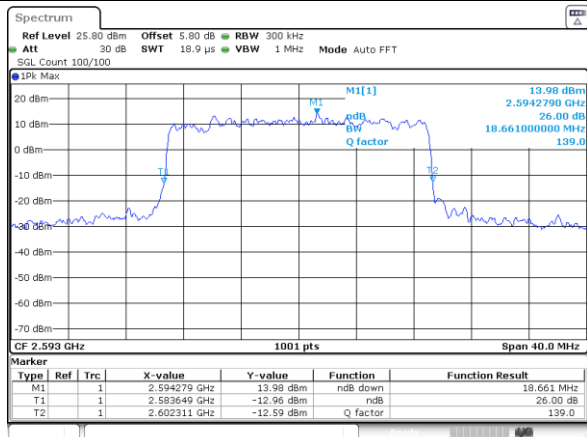
Middle Channel / 15MHz / 16QAM



Date: 20.APR.2025 16:36:28

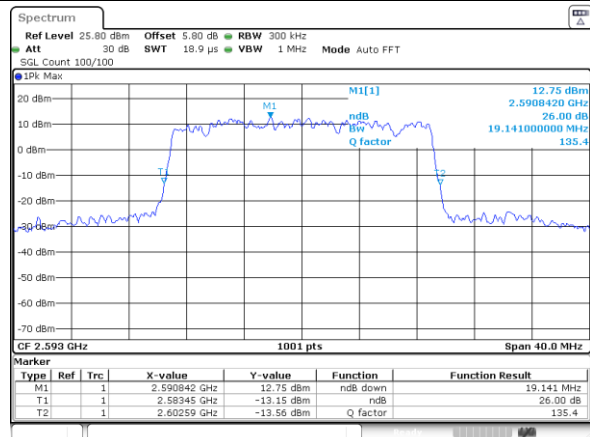
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 20.APR.2025 16:37:55

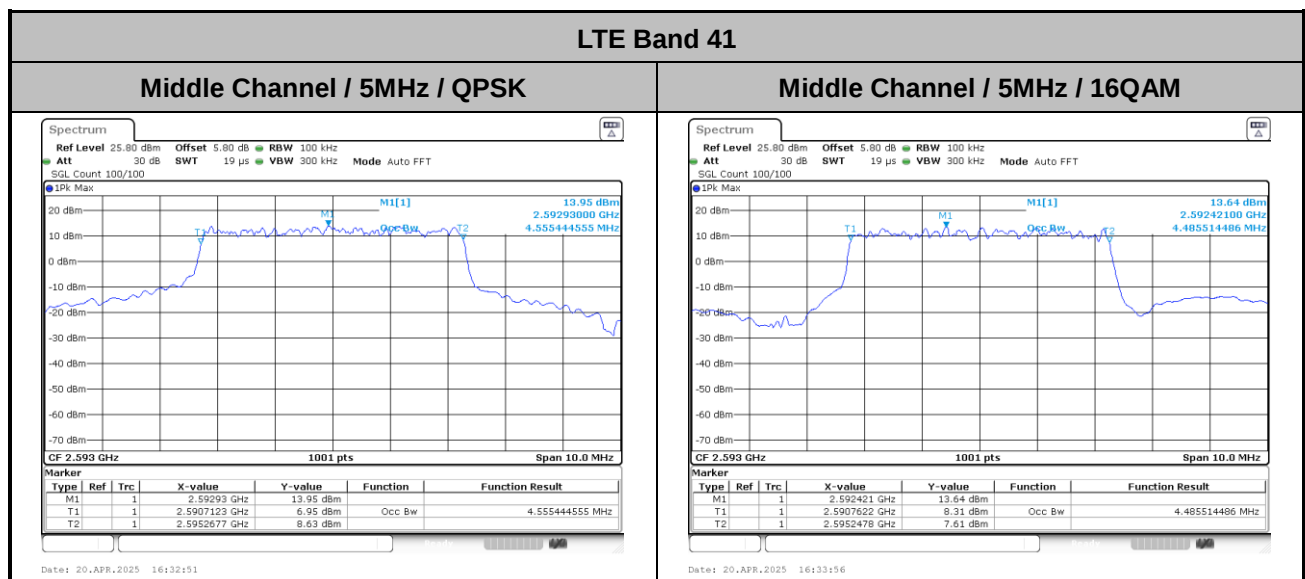
Middle Channel / 20MHz / 16QAM



Date: 20.APR.2025 16:37:33

**Occupied Bandwidth**

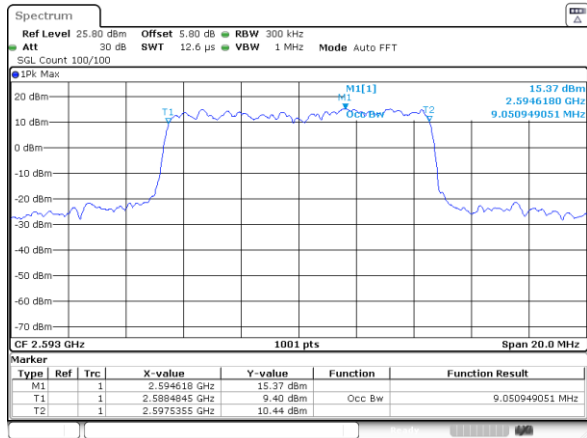
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.56	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	9.05
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.43	13.43
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.76	17.78





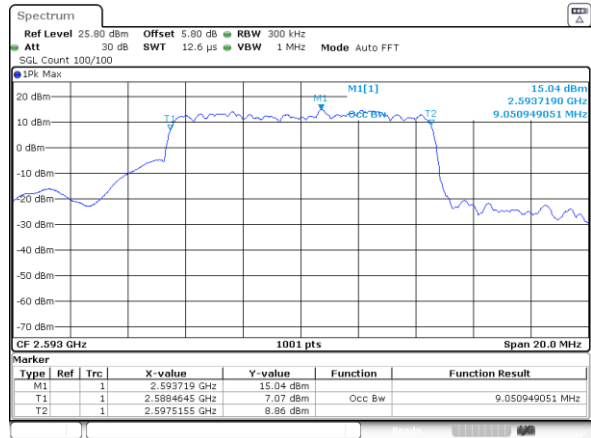
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 20.APR.2025 16:35:23

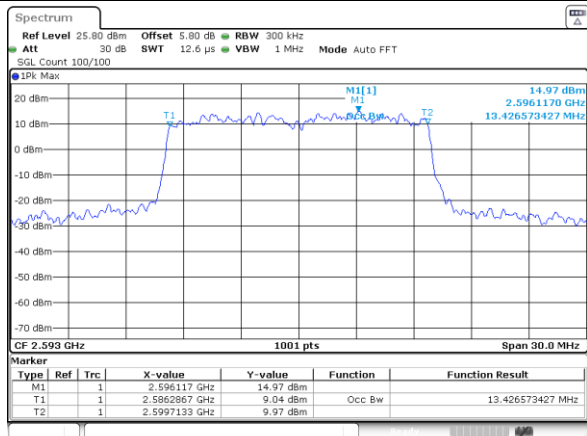
Middle Channel / 10MHz / 16QAM



Date: 20.APR.2025 16:34:18

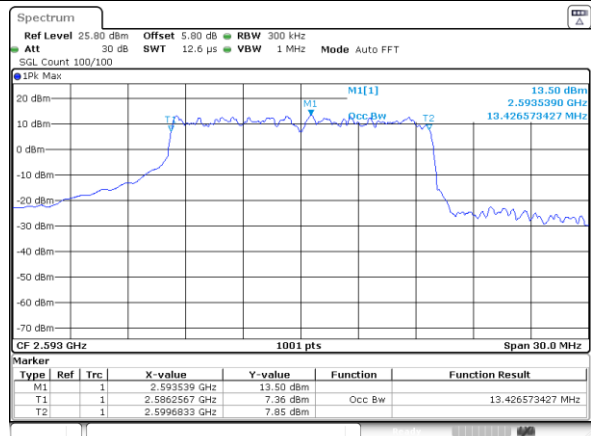
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 20.APR.2025 16:35:45

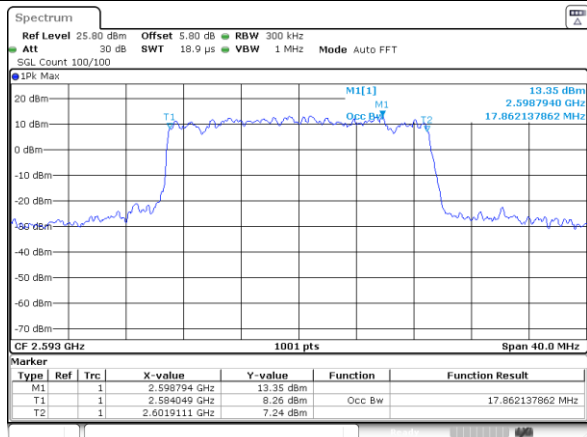
Middle Channel / 15MHz / 16QAM



Date: 20.APR.2025 16:36:50

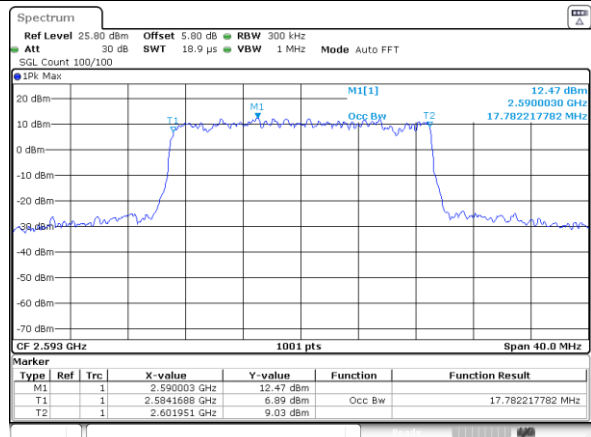
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 20.APR.2025 16:38:16

Middle Channel / 20MHz / 16QAM



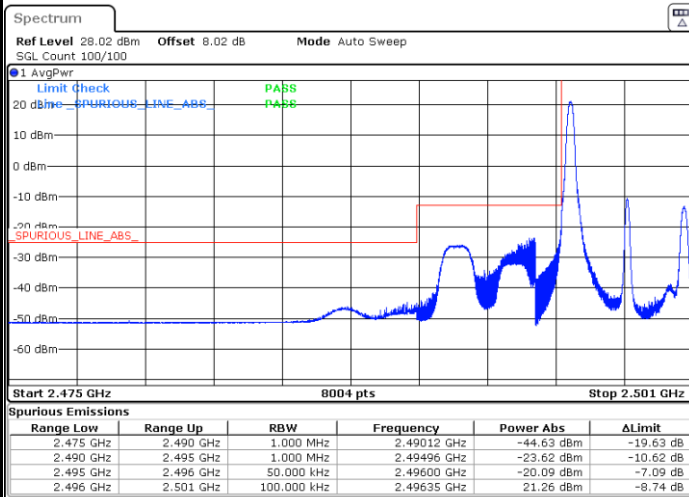
Date: 20.APR.2025 16:37:12



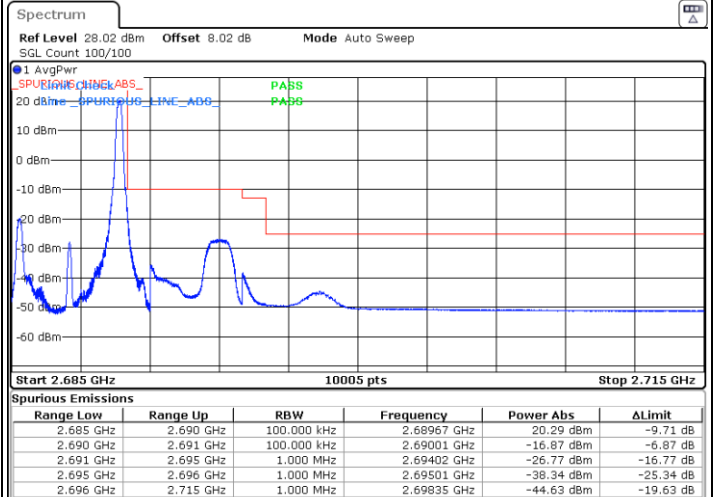
Conducted Band Edge

LTE Band 41 / 5MHz / QPSK

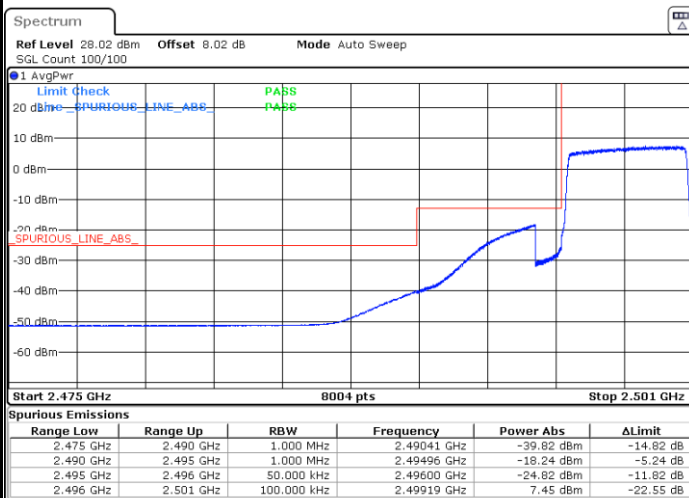
Lowest Band Edge / 1 RB



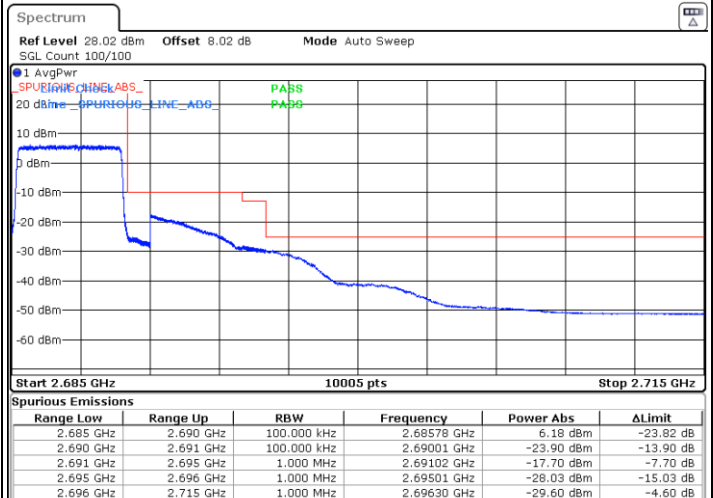
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



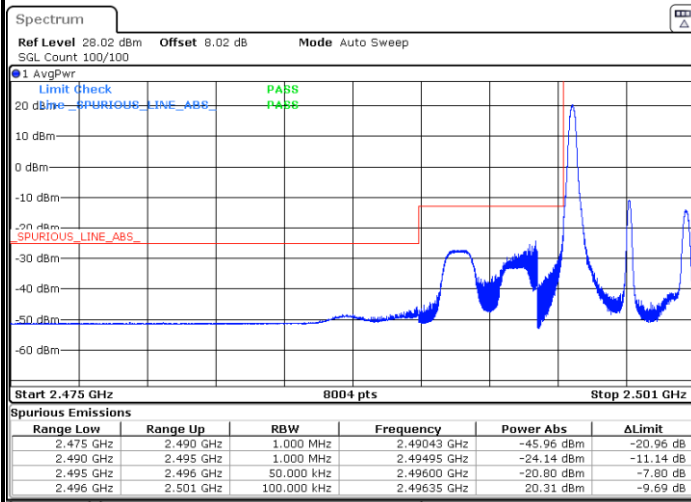
Highest Band Edge / Full RB



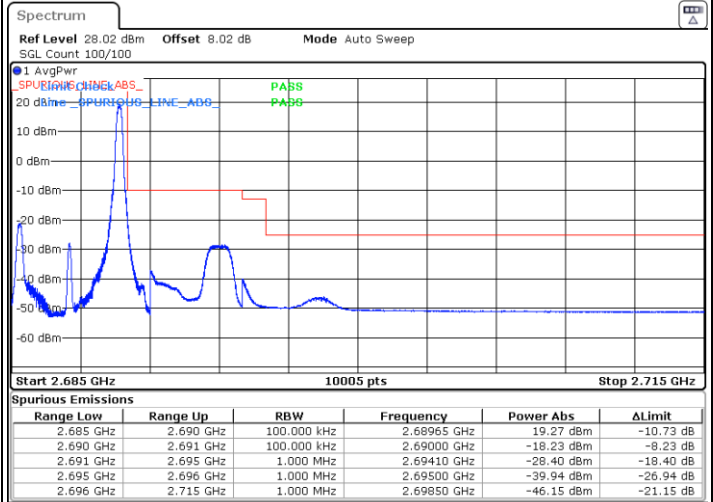


LTE Band 41 / 5MHz / 16QAM

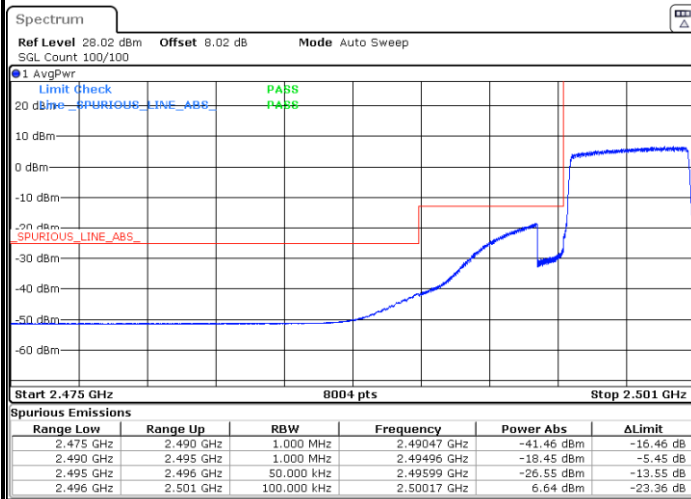
Lowest Band Edge / 1RB



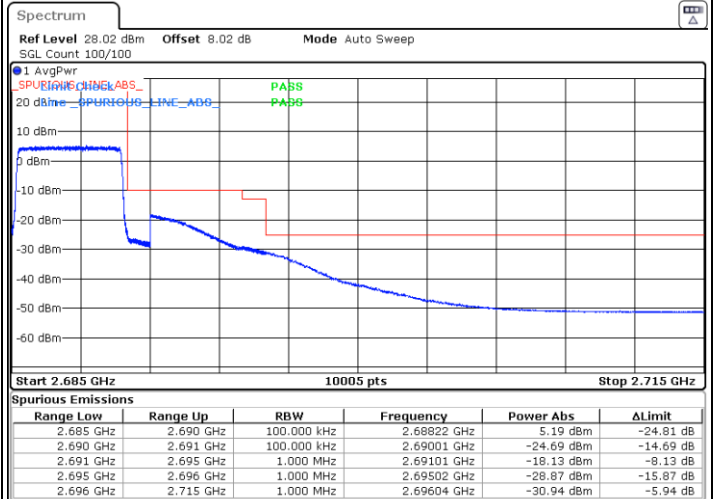
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



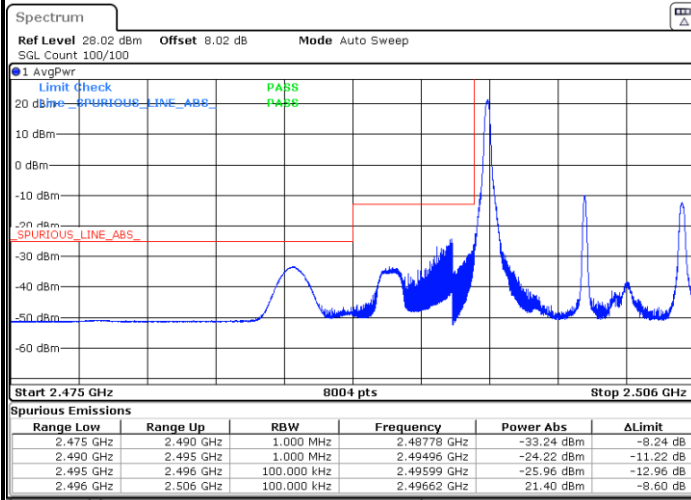
Highest Band Edge / Full RB





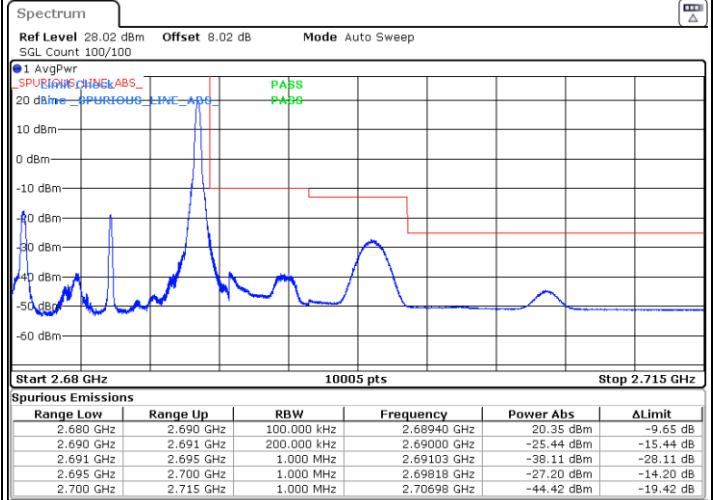
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



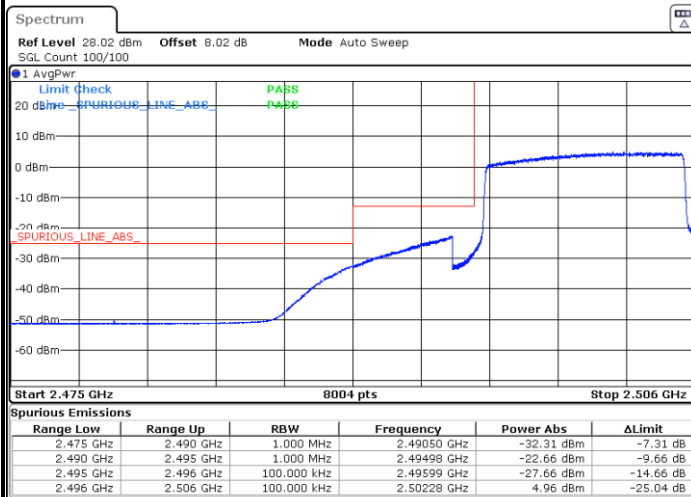
Date: 20.APR.2025 15:33:30

Highest Band Edge / 1 RB



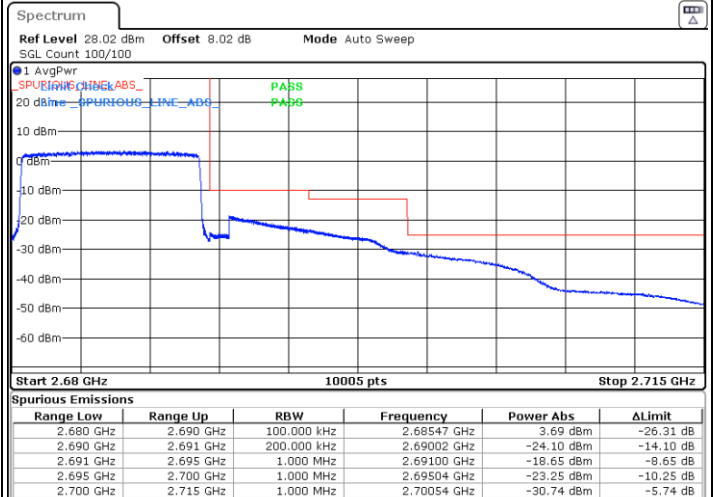
Date: 20.APR.2025 15:38:01

Lowest Band Edge / Full RB



Date: 20.APR.2025 15:35:46

Highest Band Edge / Full RB

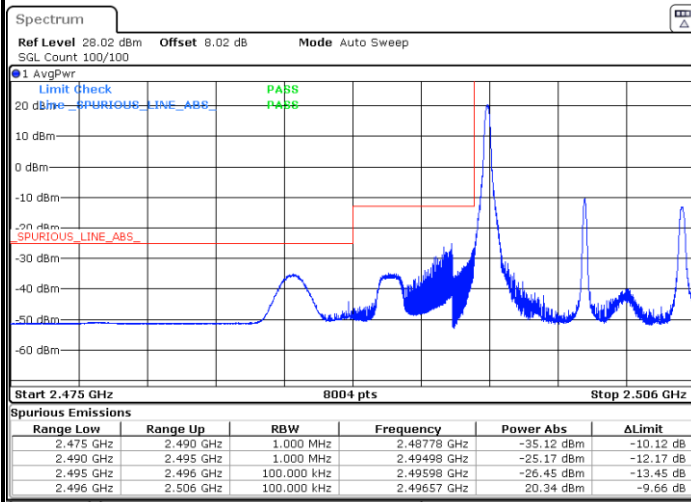


Date: 20.APR.2025 15:40:17

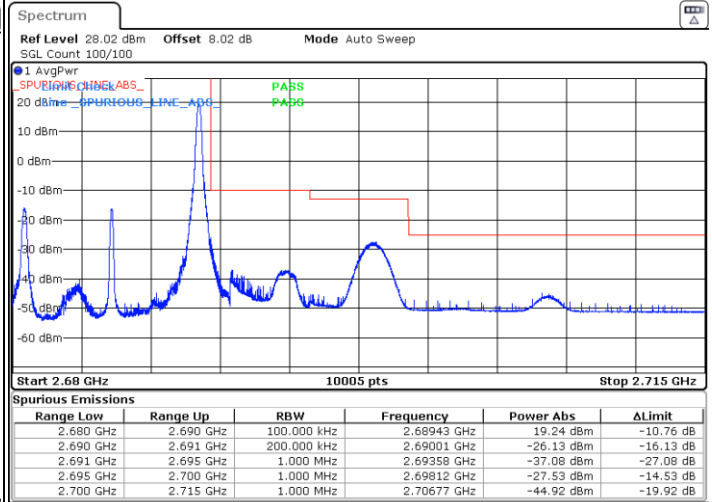


LTE Band 41 / 10MHz / 16QAM

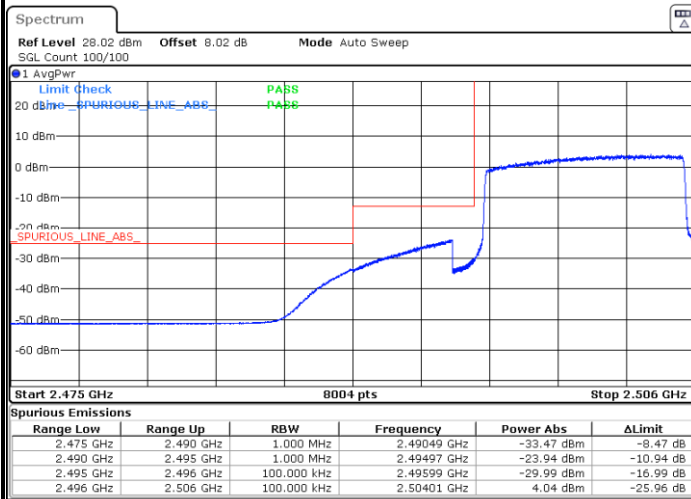
Lowest Band Edge / 1 RB



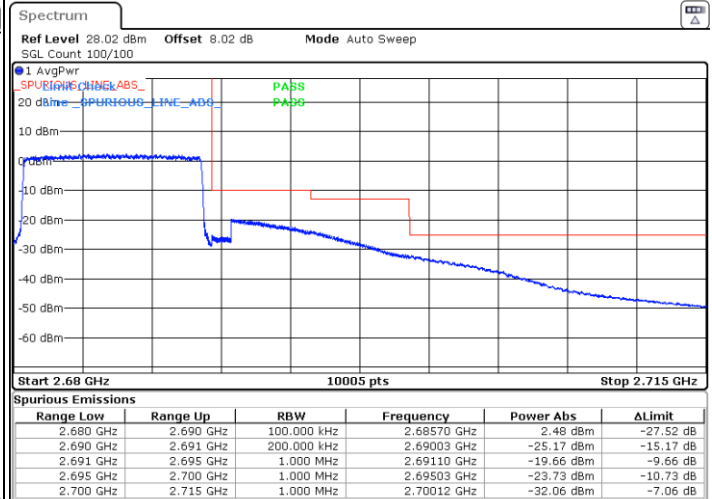
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



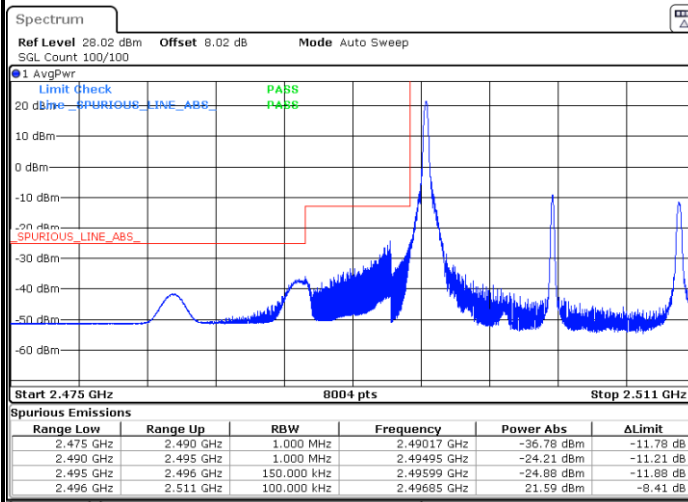
Highest Band Edge / Full RB



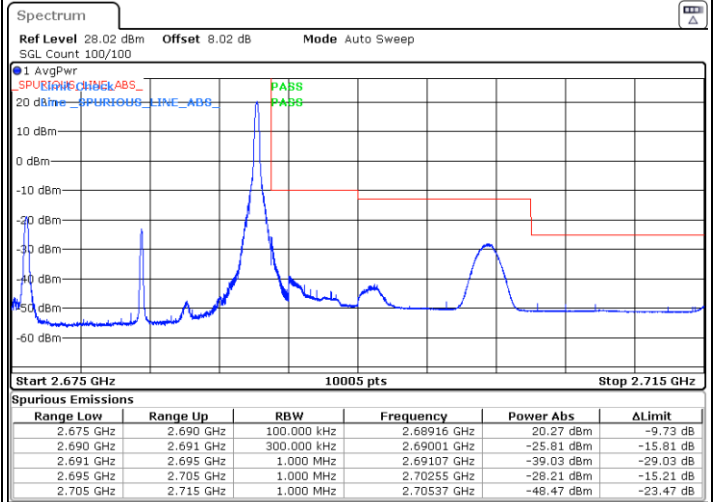


LTE Band 41 / 15MHz / QPSK

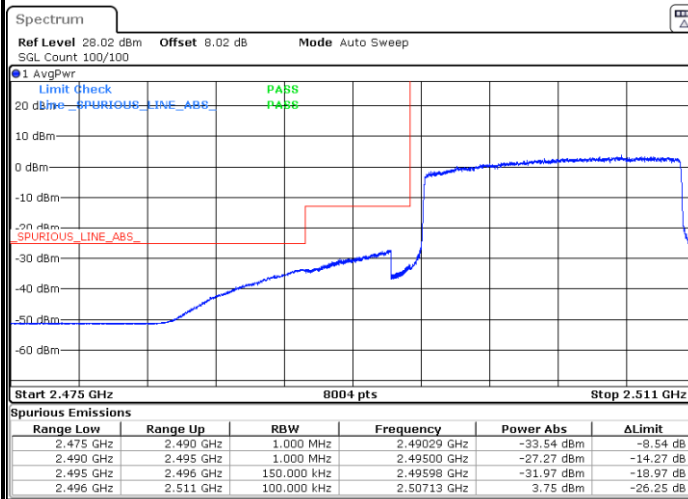
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

