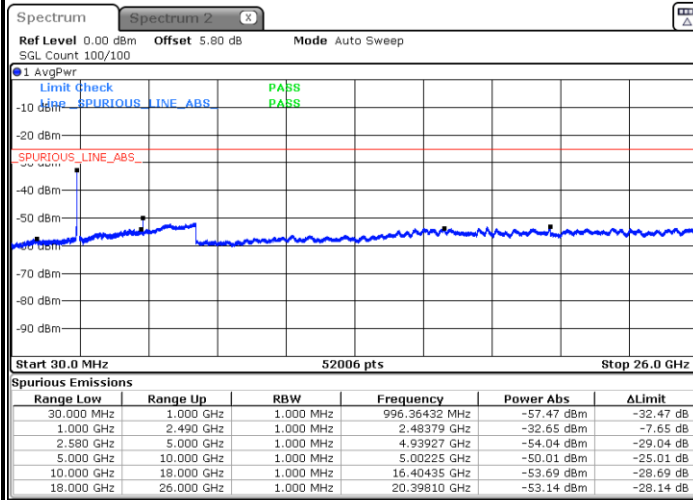


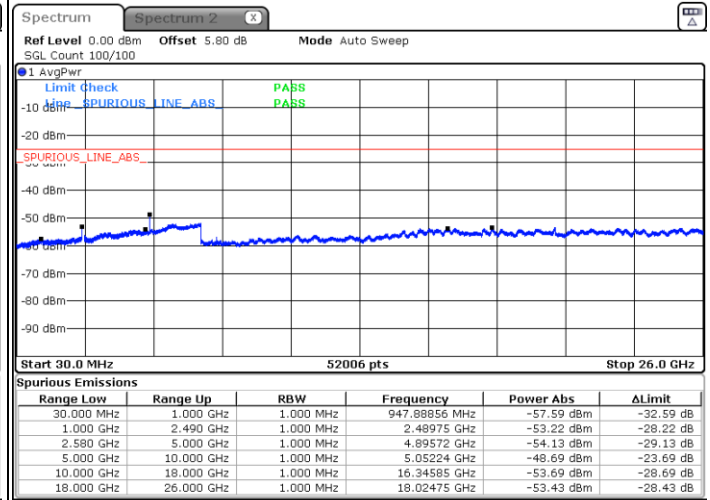


LTE Band 7 / 20MHz

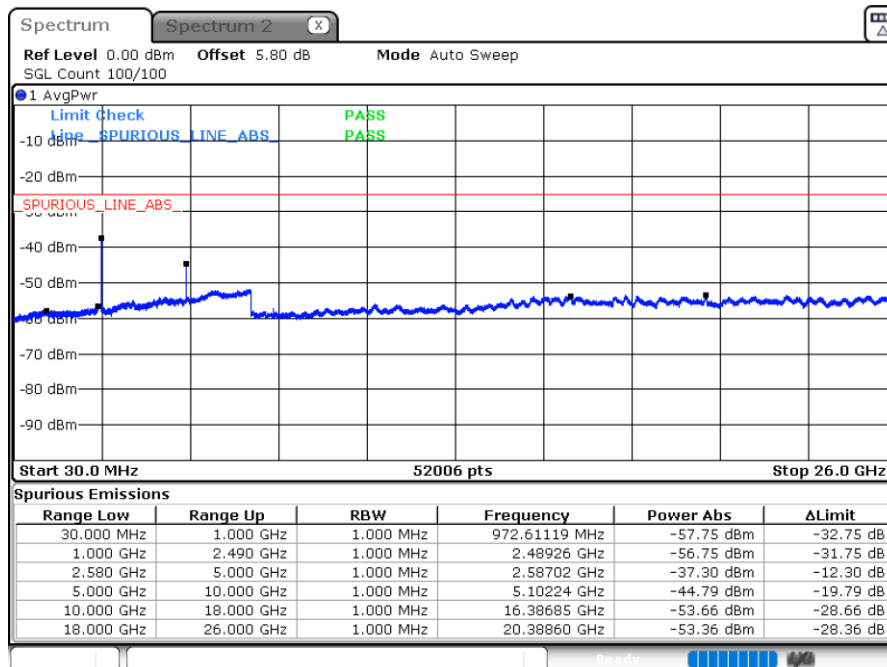
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0020	
20	Battery End Point	0.0019	

Note:

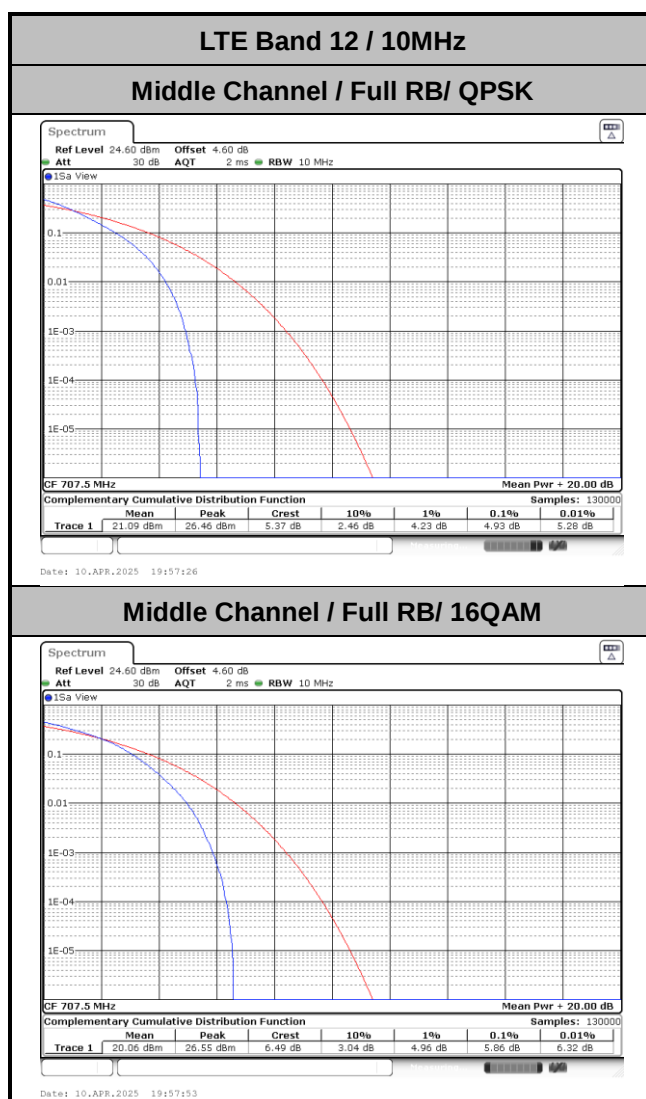
1. Normal Voltage =3.9V.; Battery End Point (BEP) =3.5V.; Maximum Voltage =4.35V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

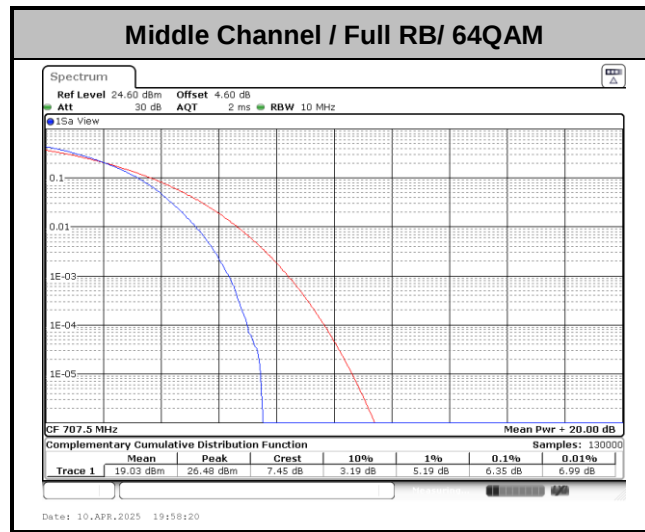


LTE Band 12

Peak-to-Average Ratio

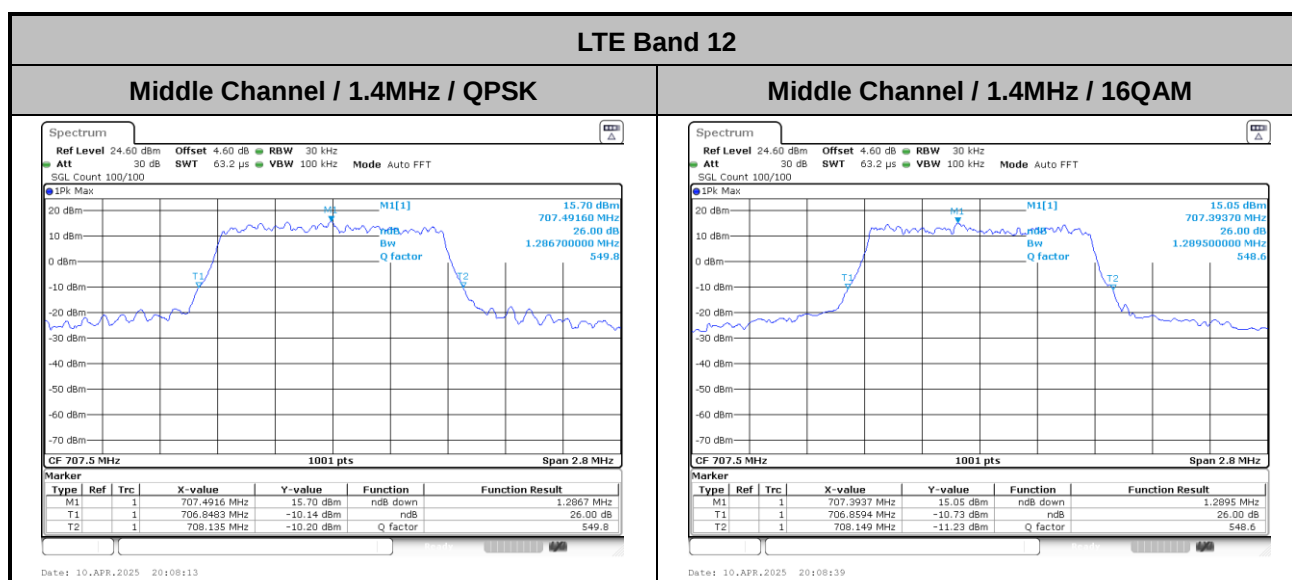
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM		Limit: 13dB
RB Size	Full RB	Full RB	Full RB		Result
Middle CH	4.93	5.86	6.35		PASS





**26dB Bandwidth**

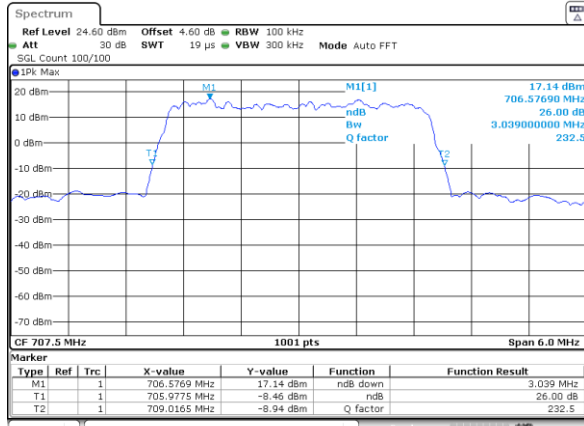
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.29	1.29
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	3.04	3.02
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.92	4.81
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.95	9.89





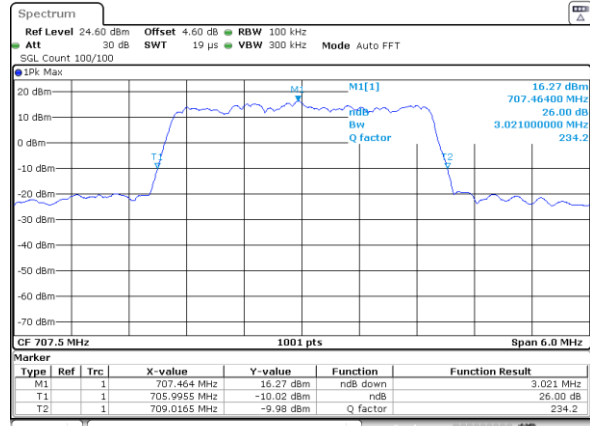
LTE Band 12

Middle Channel / 3MHz / QPSK



Date: 10.APR.2025 20:06:10

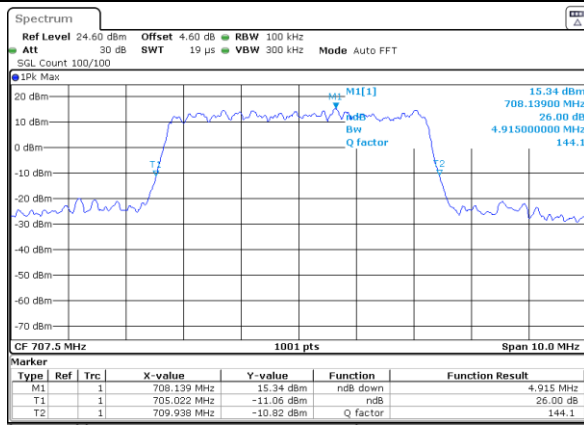
Middle Channel / 3MHz / 16QAM



Date: 10.APR.2025 20:06:15

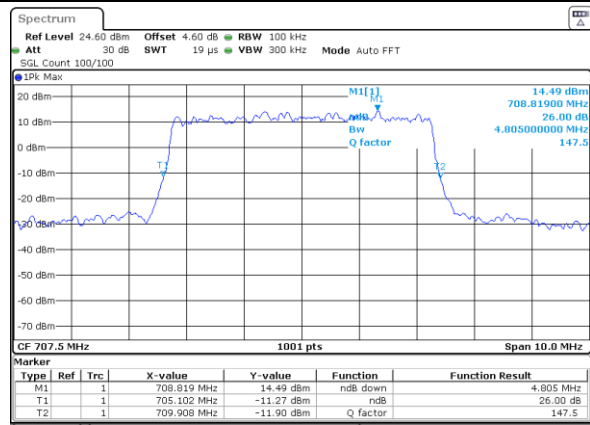
LTE Band 12

Middle Channel / 5MHz / QPSK



Date: 10.APR.2025 20:03:35

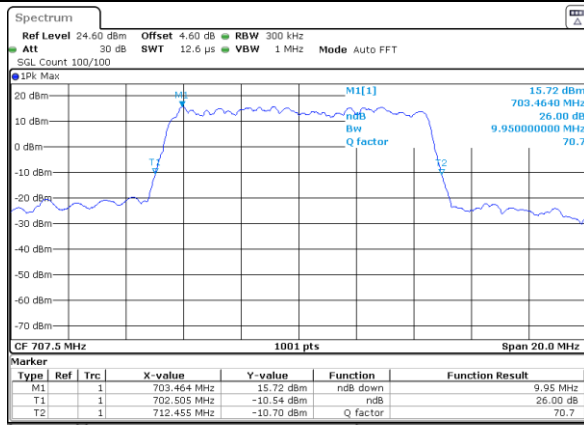
Middle Channel / 5MHz / 16QAM



Date: 10.APR.2025 20:04:00

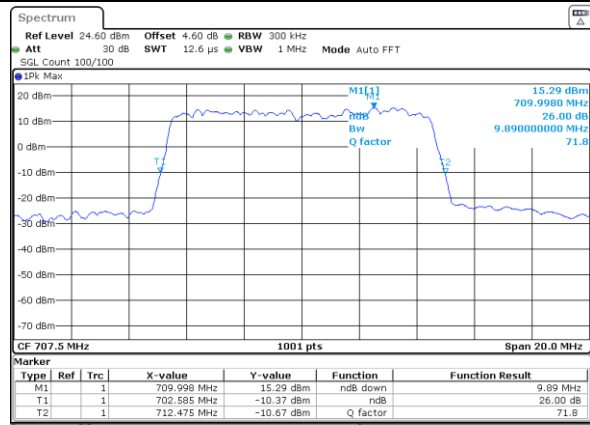
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 10.APR.2025 19:59:37

Middle Channel / 10MHz / 16QAM

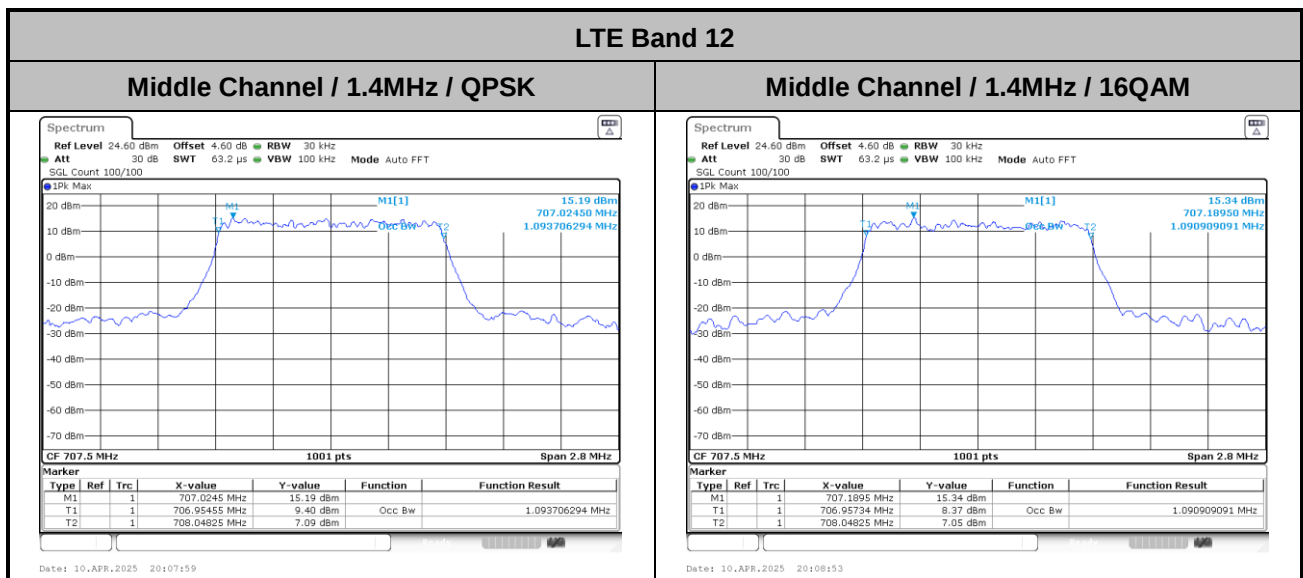


Date: 10.APR.2025 20:00:03



Occupied Bandwidth

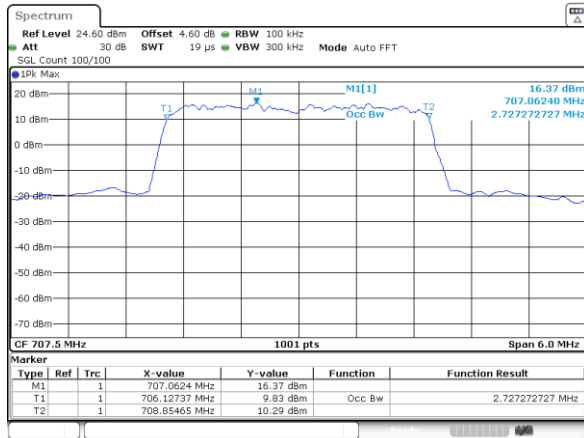
Mode	LTE Band 12 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.09
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.73	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.52	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	9.01



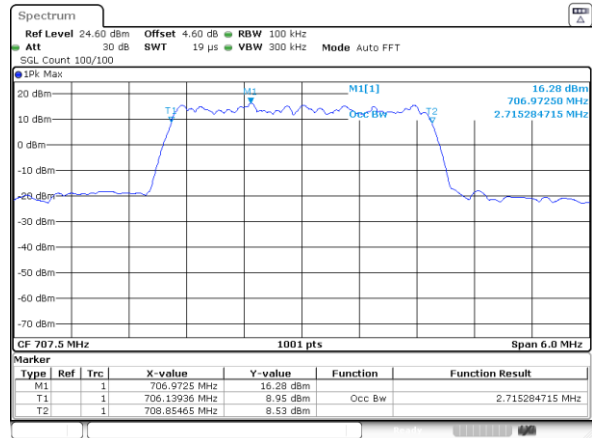


LTE Band 12

Middle Channel / 3MHz / QPSK

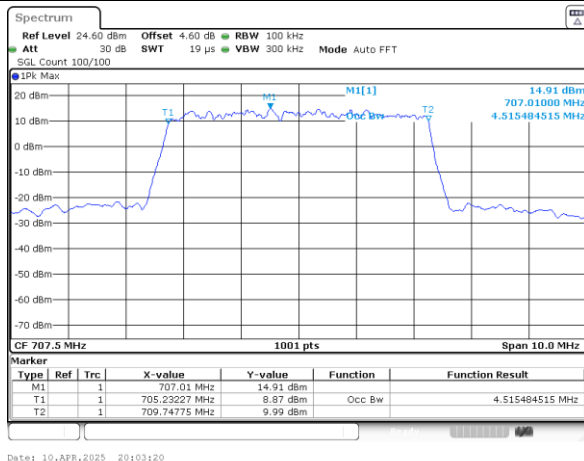


Middle Channel / 3MHz / 16QAM

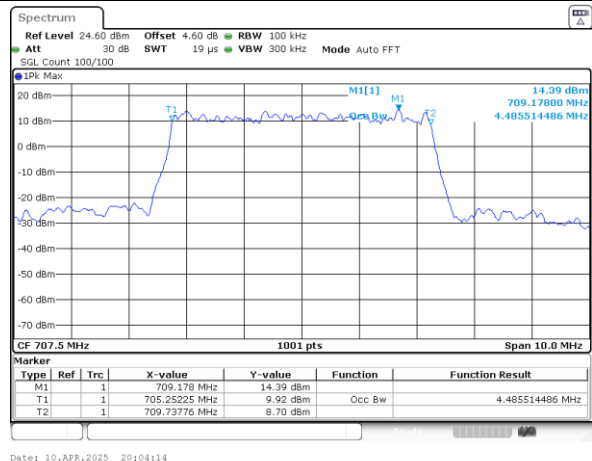


LTE Band 12

Middle Channel / 5MHz / QPSK

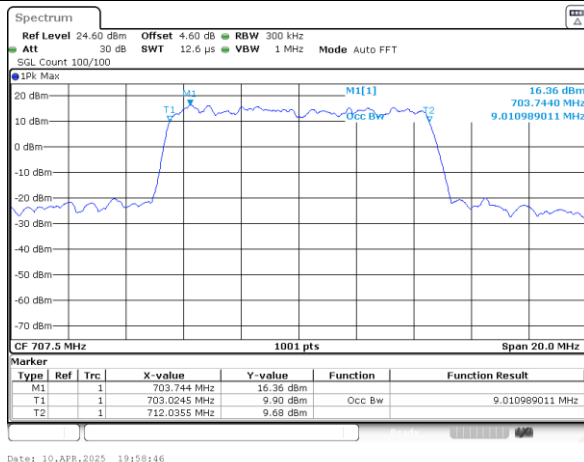


Middle Channel / 5MHz / 16QAM

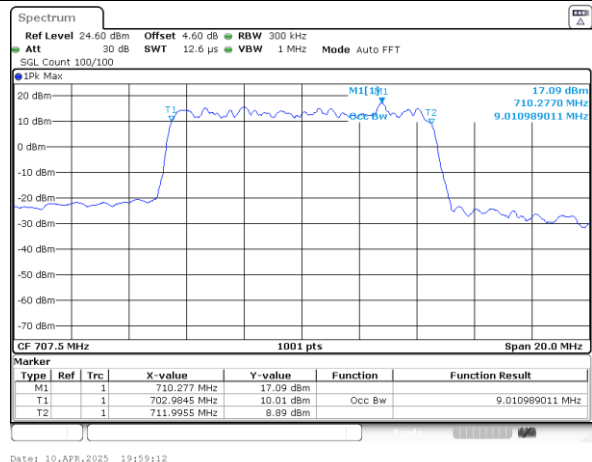


LTE Band 12

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

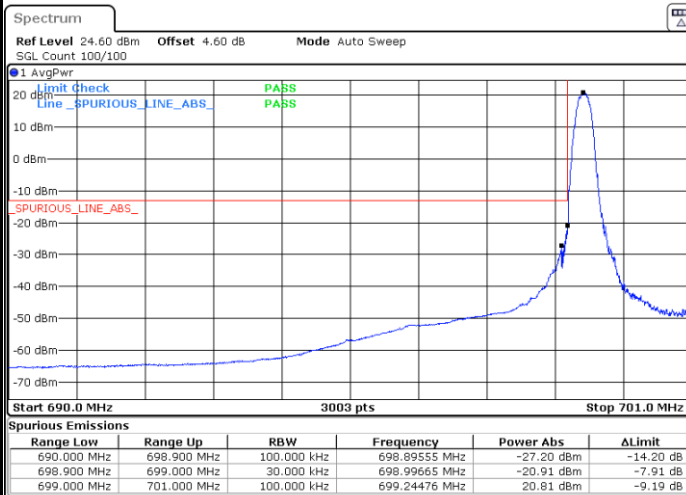




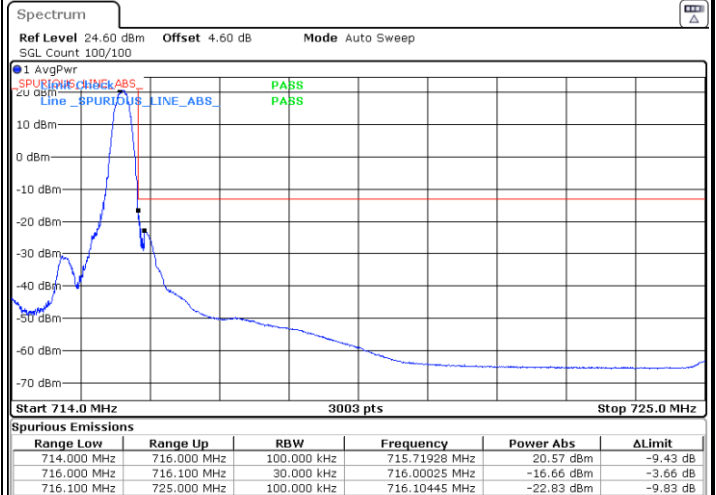
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

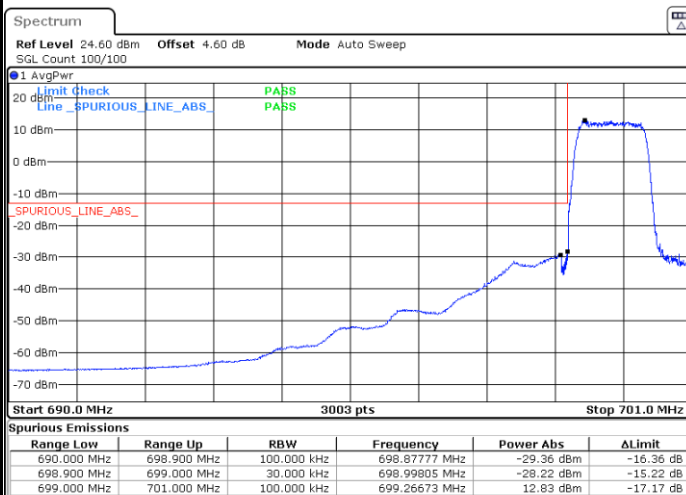
Lowest Band Edge / 1RB



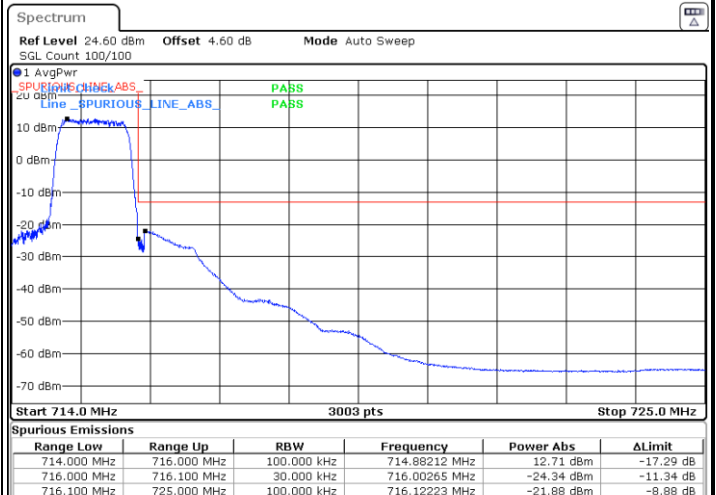
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



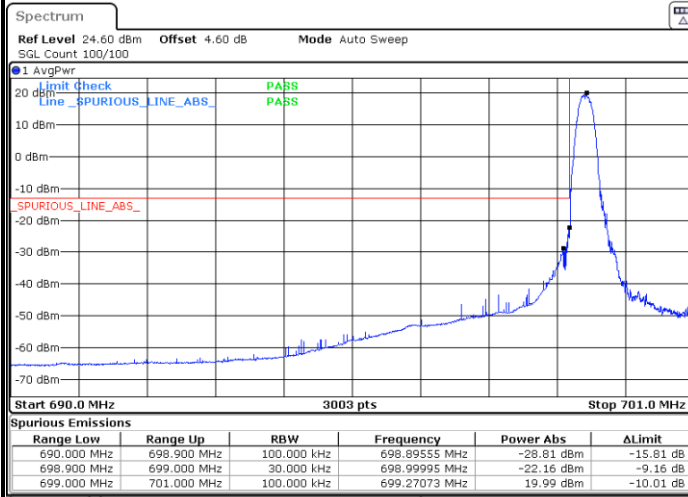
Highest Band Edge / Full RB



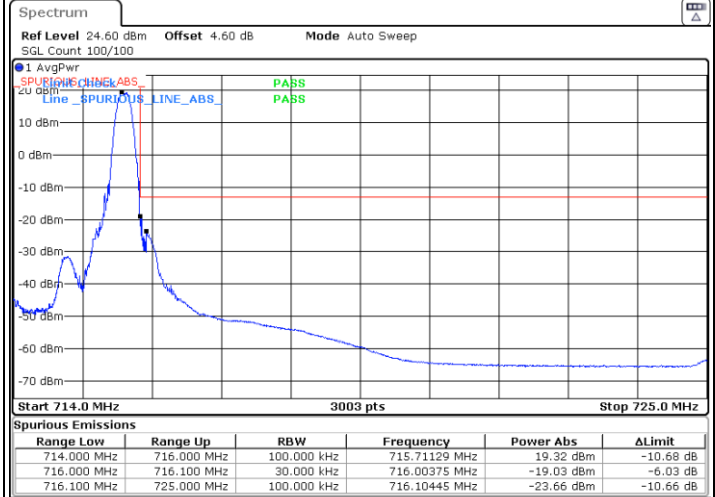


LTE Band 12 / 1.4MHz / 16QAM

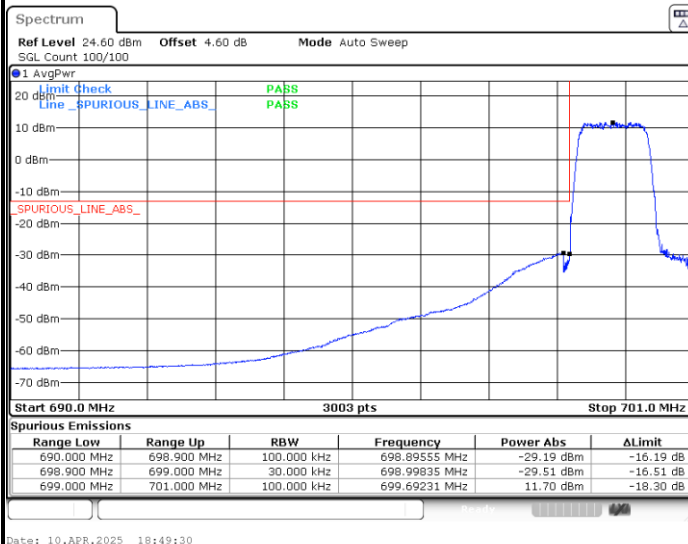
Lowest Band Edge / 1 RB



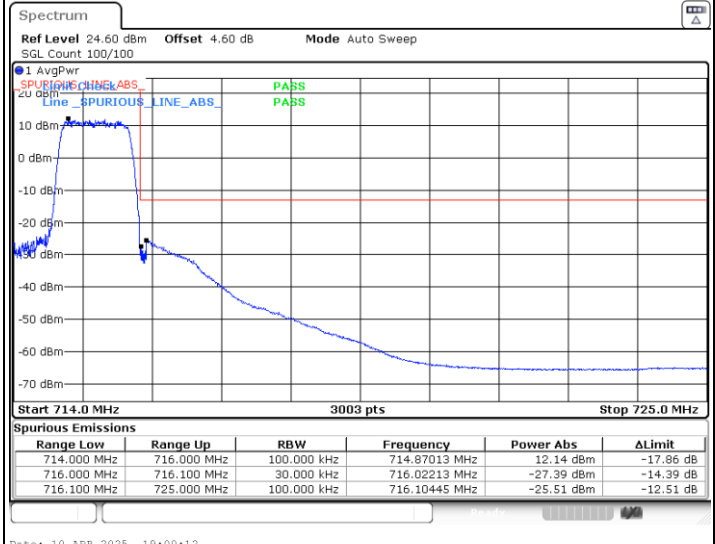
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



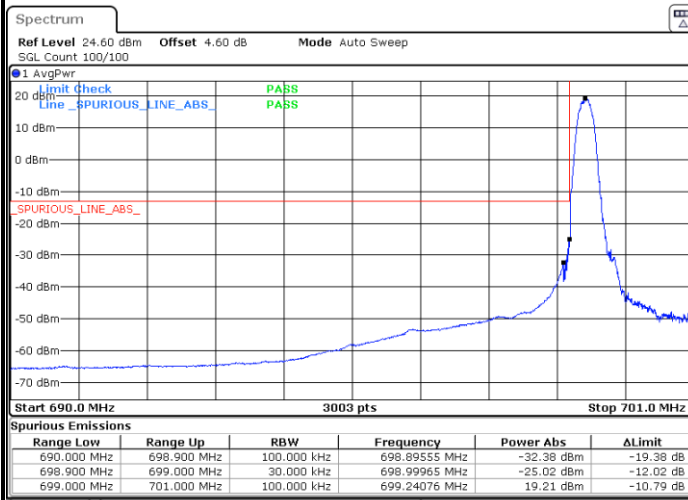
Highest Band Edge / Full RB



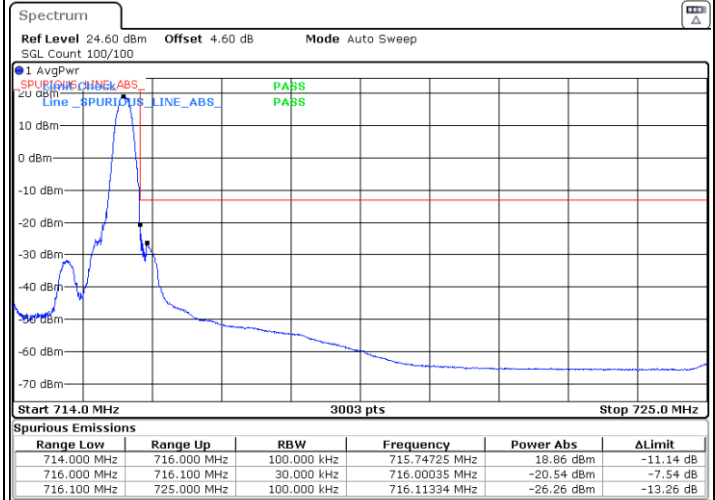


LTE Band 12 / 1.4MHz / 64QAM

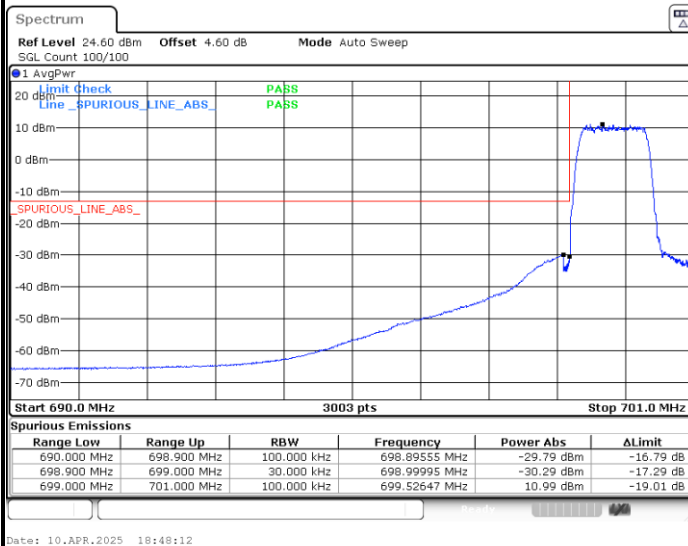
Lowest Band Edge / 1 RB



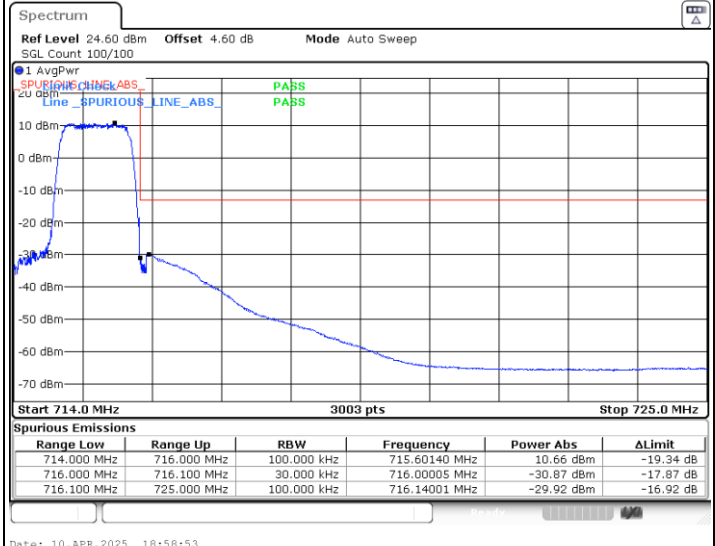
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



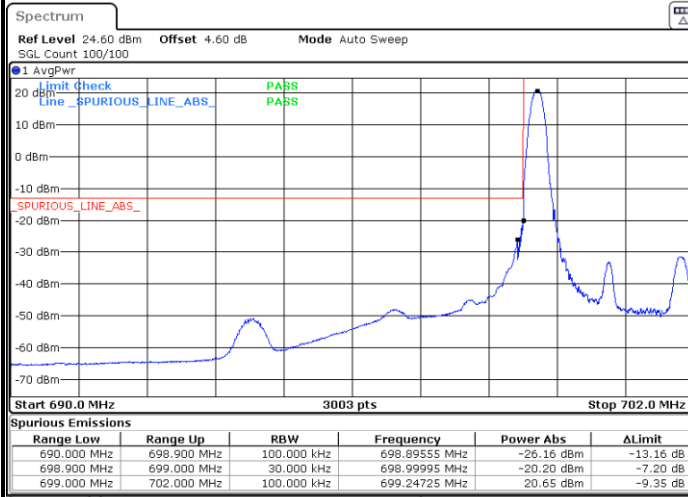
Highest Band Edge / Full RB



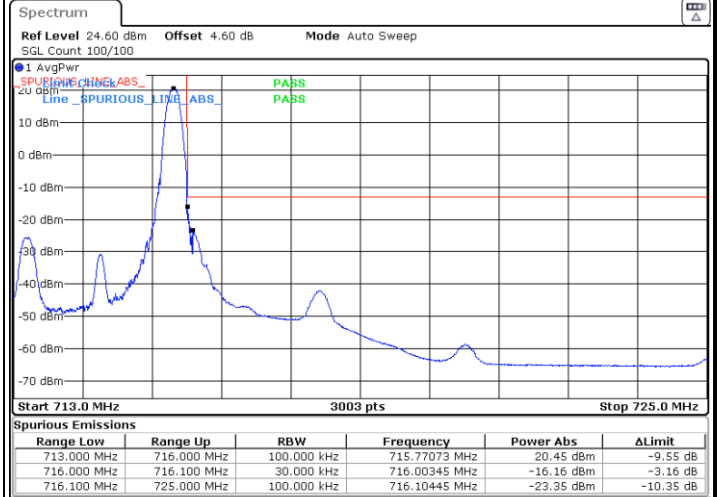


LTE Band 12 / 3MHz / QPSK

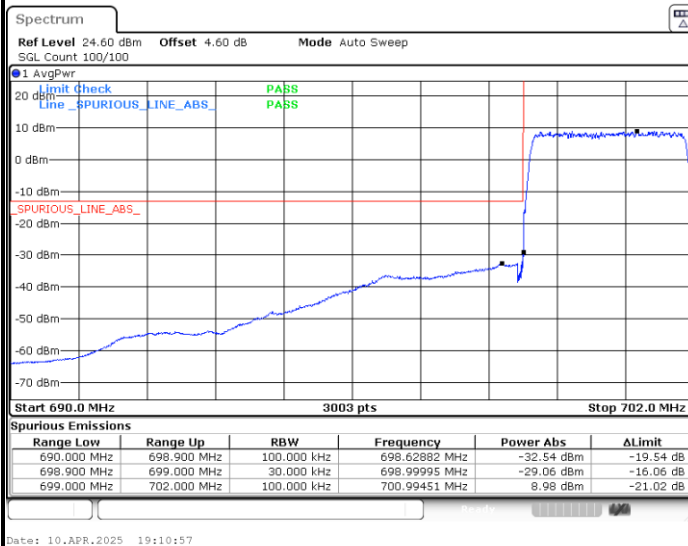
Lowest Band Edge / 1RB



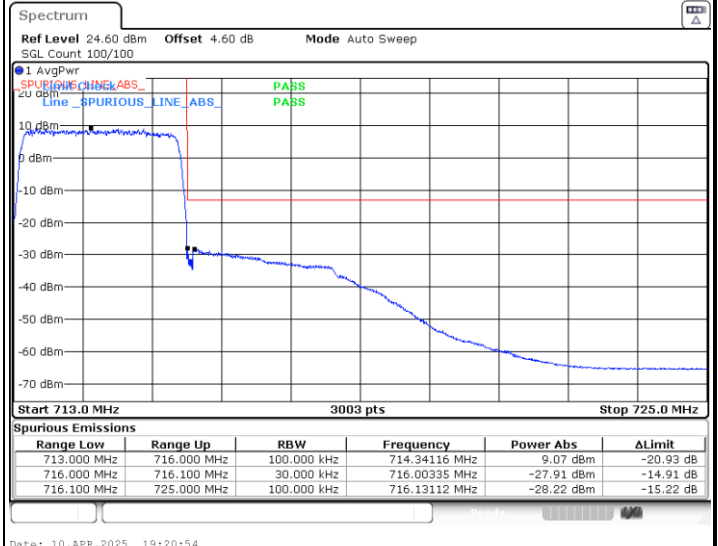
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



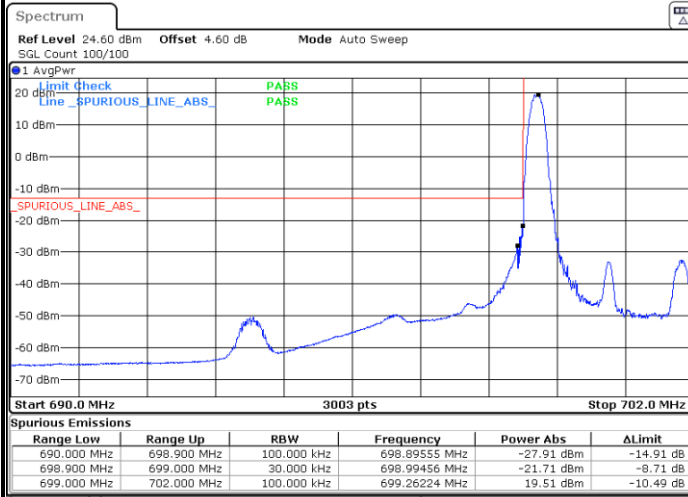
Highest Band Edge / Full RB



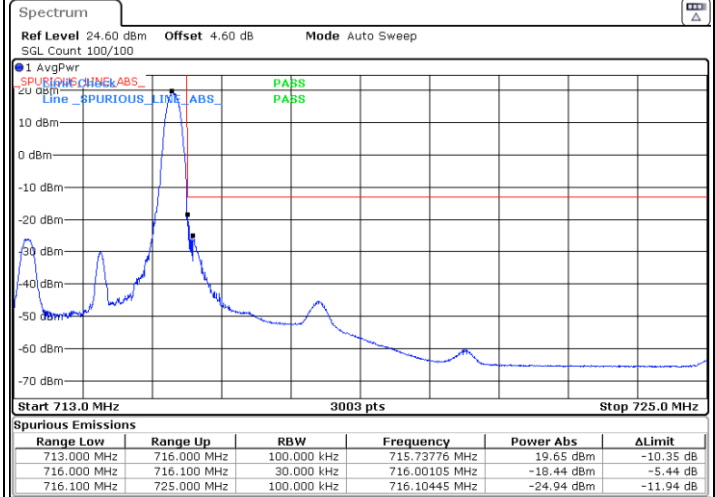


LTE Band 12 / 3MHz / 16QAM

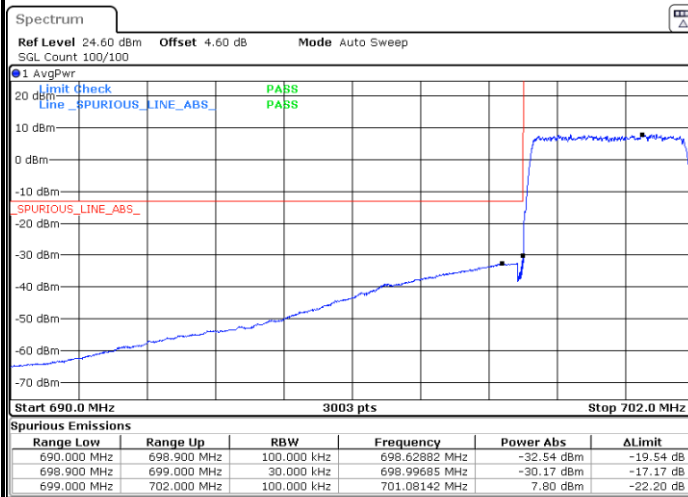
Lowest Band Edge / 1 RB



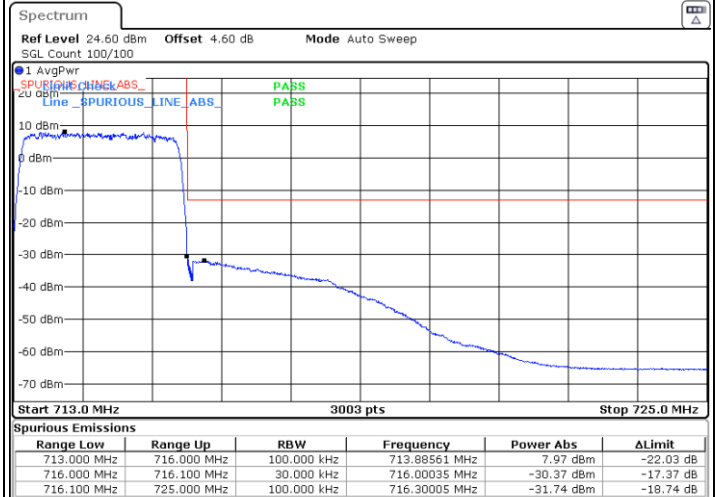
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



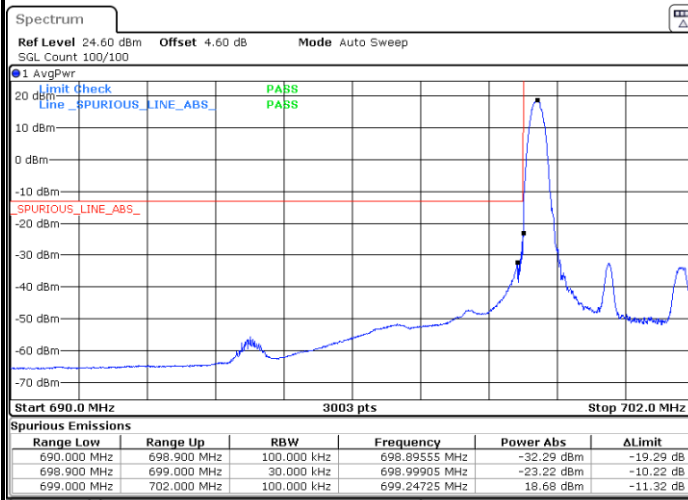
Highest Band Edge / Full RB



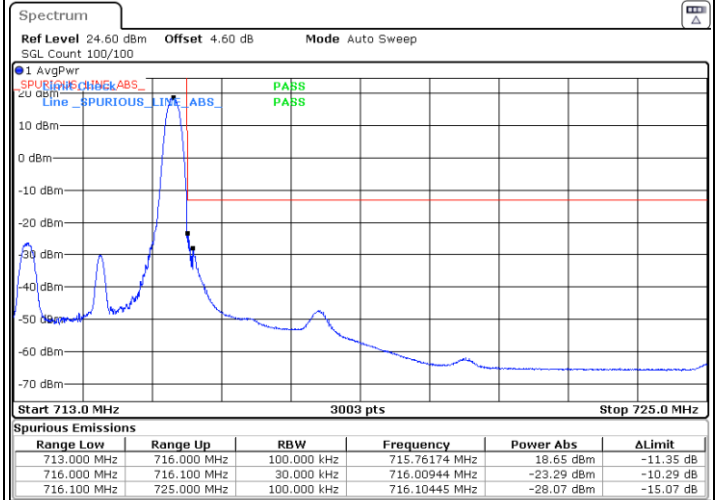


LTE Band 12 / 3MHz / 64QAM

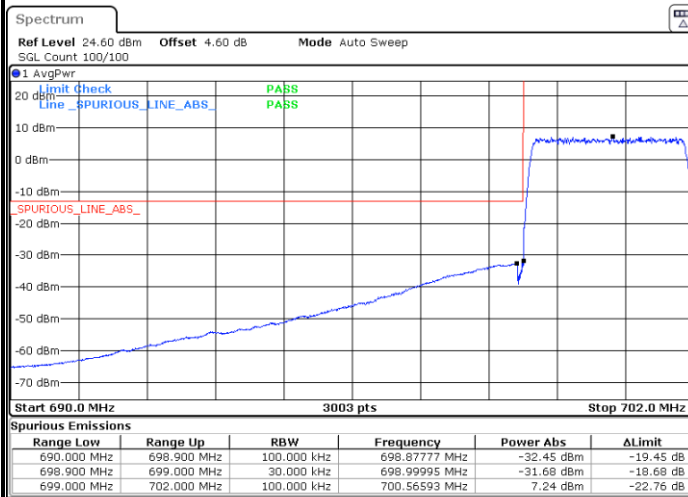
Lowest Band Edge / 1 RB



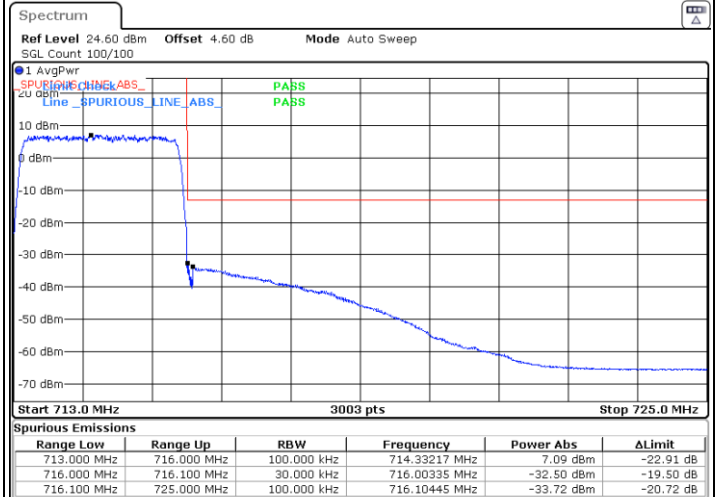
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



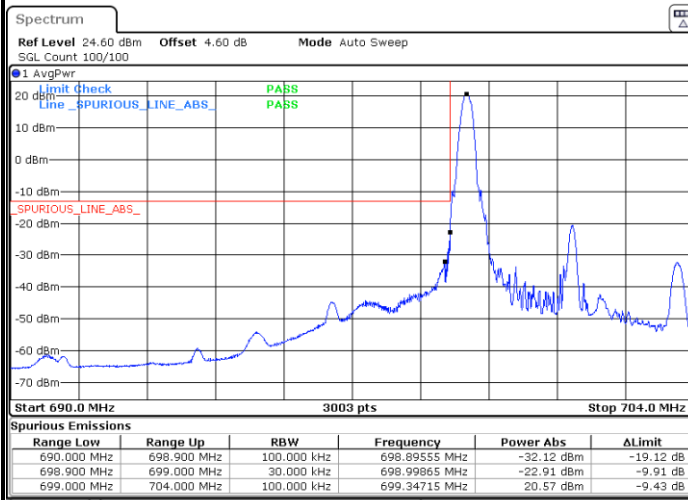
Highest Band Edge / Full RB



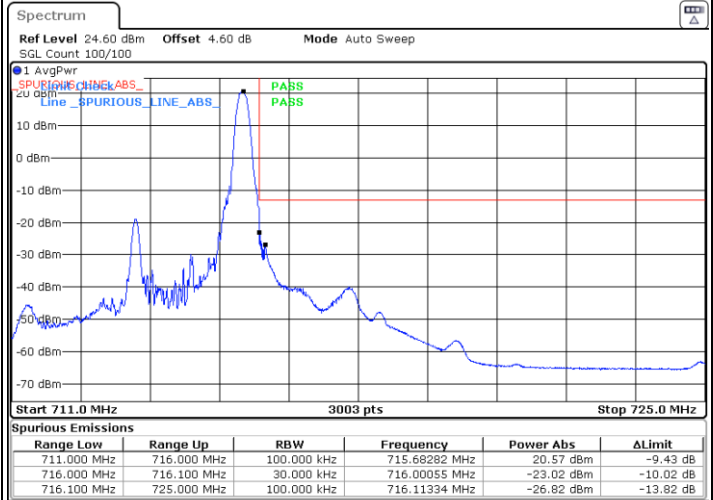


LTE Band 12 / 5MHz / QPSK

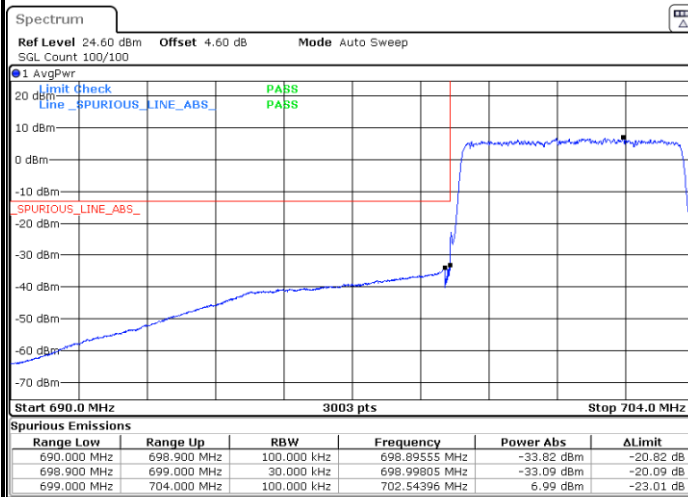
Lowest Band Edge / 1 RB



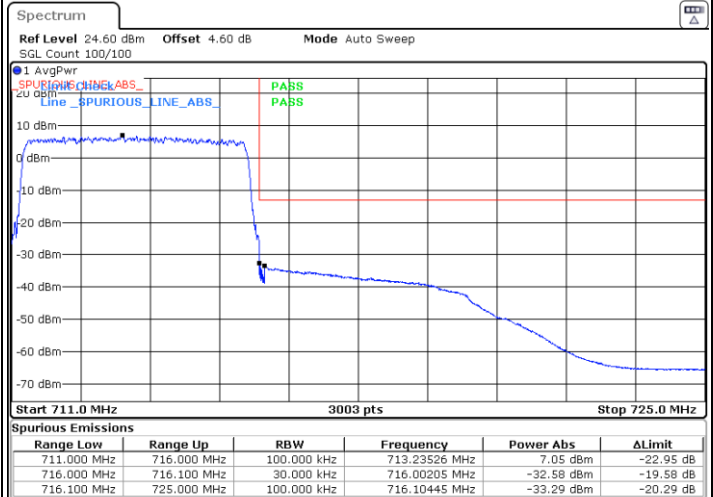
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



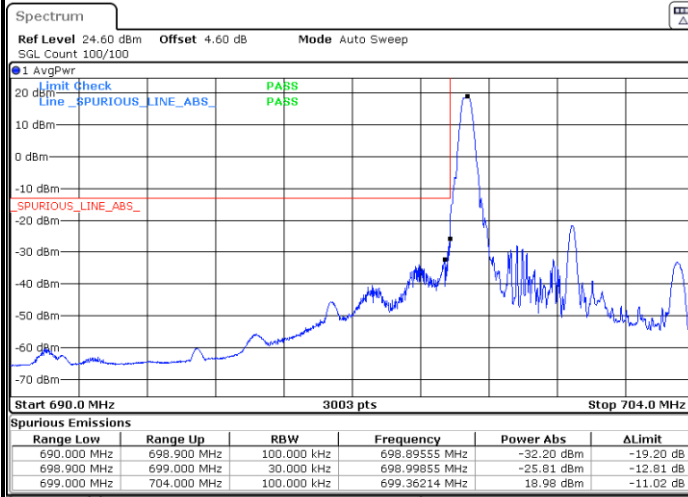
Highest Band Edge / Full RB



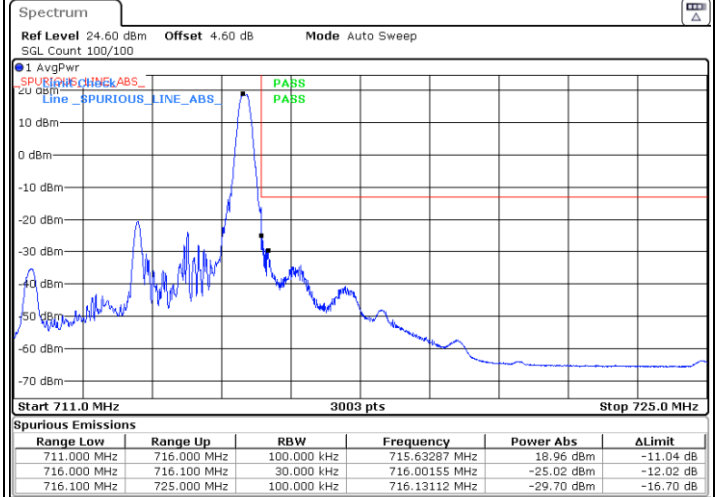


LTE Band 12 / 5MHz / 16QAM

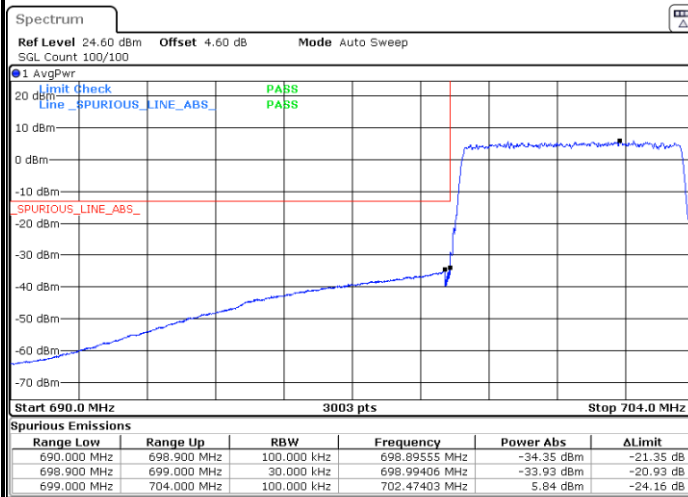
Lowest Band Edge / 1RB



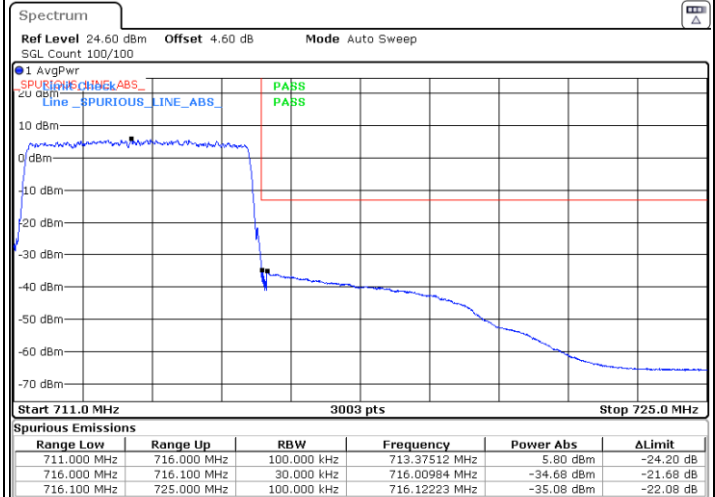
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



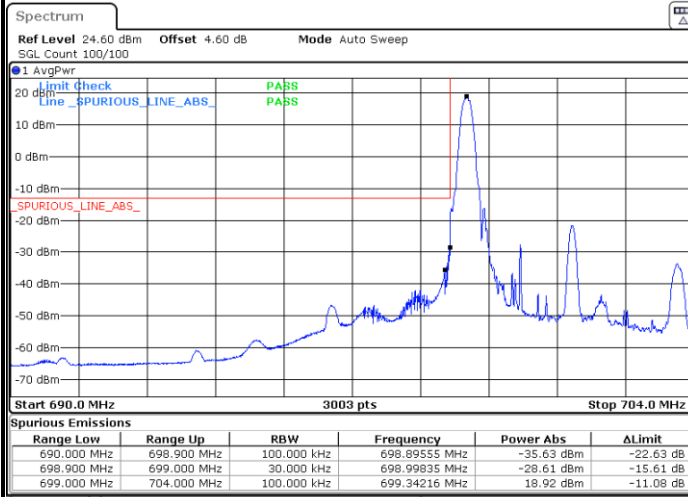
Highest Band Edge / Full RB



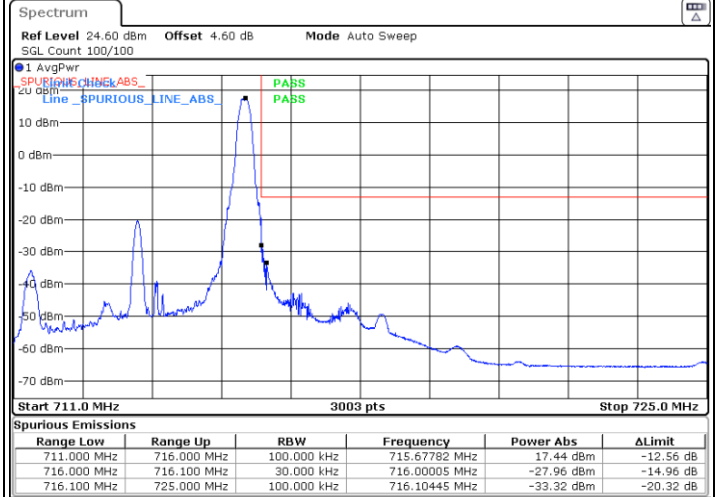


LTE Band 12 / 5MHz / 64QAM

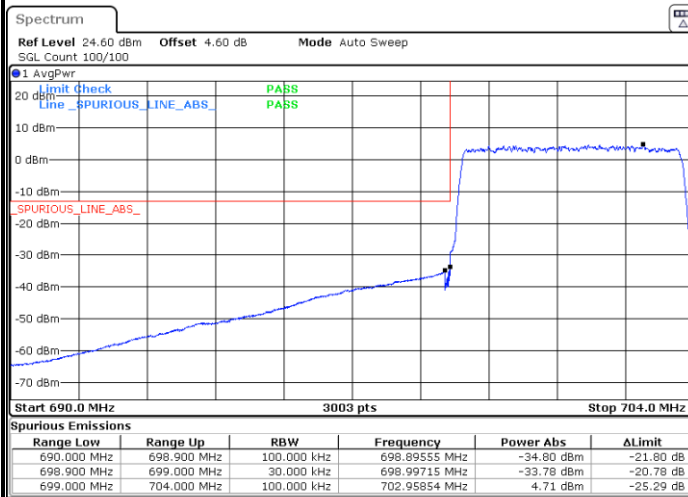
Lowest Band Edge / 1RB



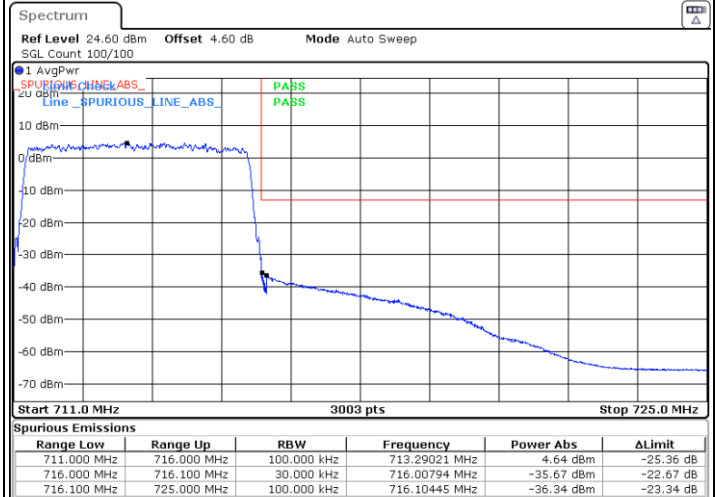
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



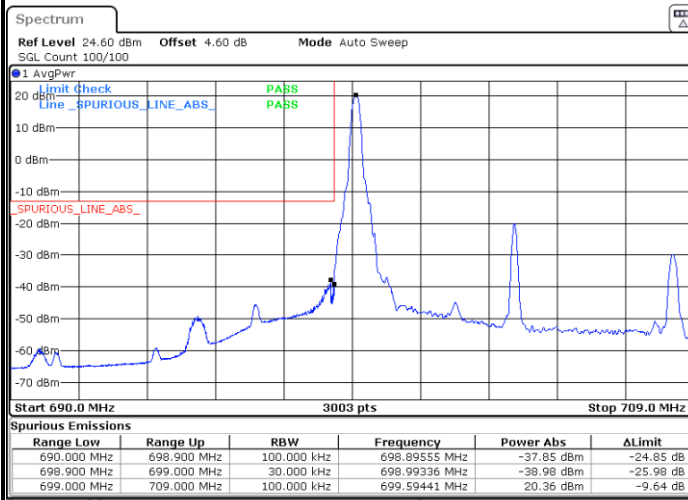
Highest Band Edge / Full RB



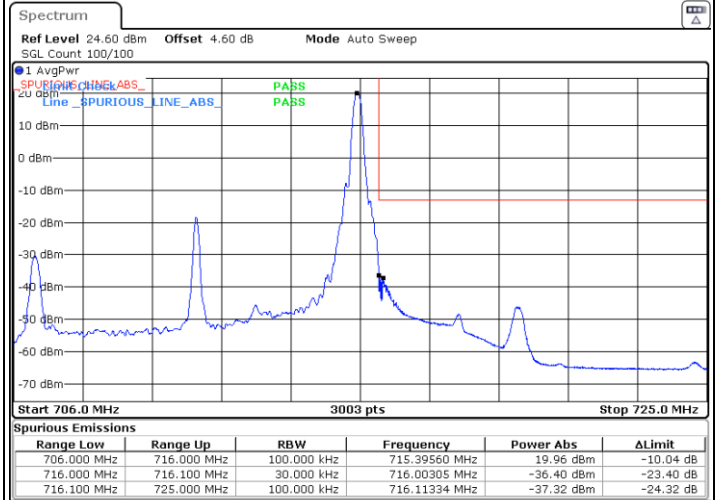


LTE Band 12 / 10MHz / QPSK

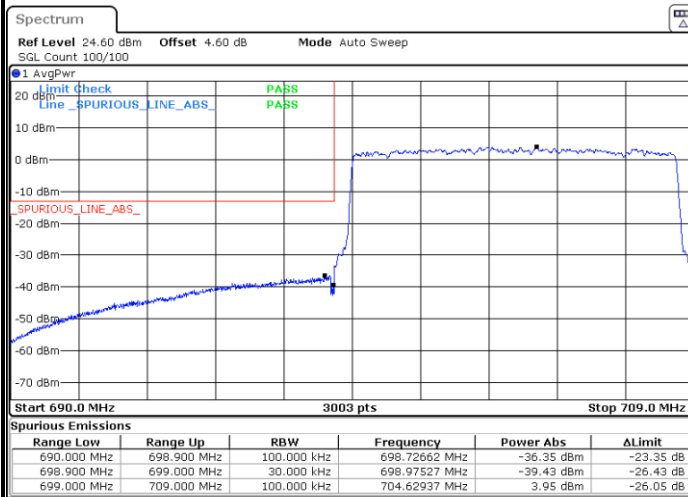
Lowest Band Edge / 1 RB



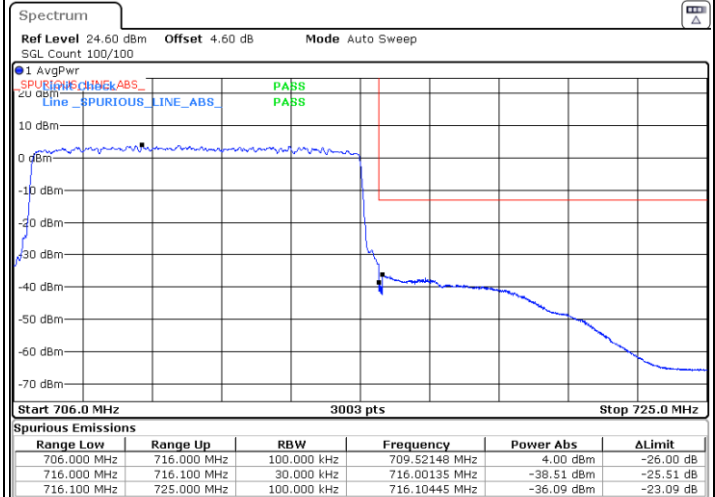
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



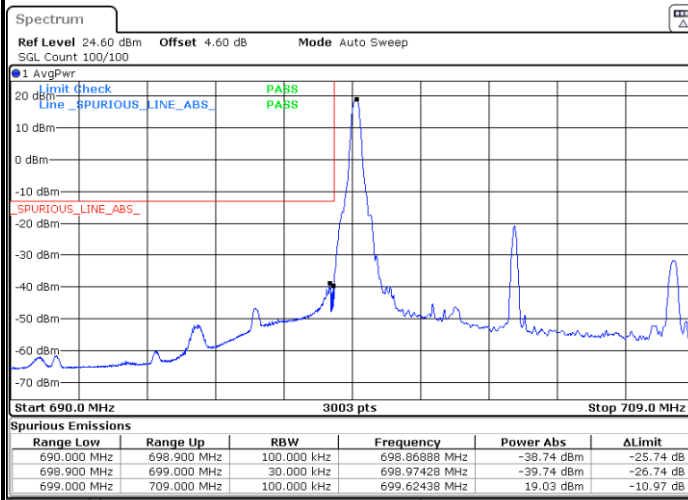
Highest Band Edge / Full RB



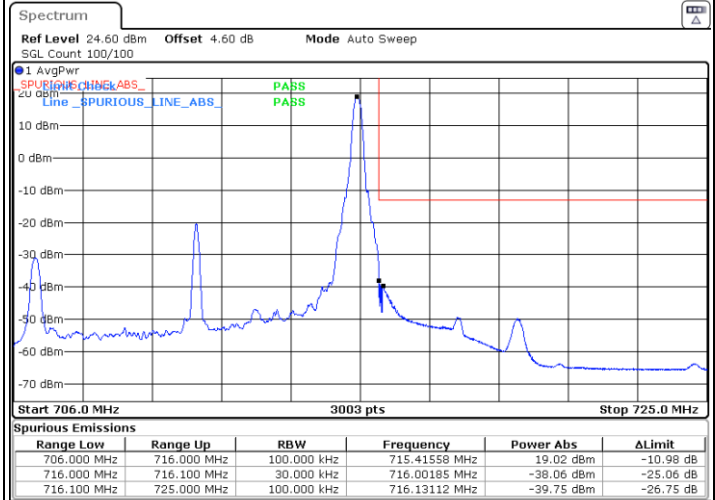


LTE Band 12 / 10MHz / 16QAM

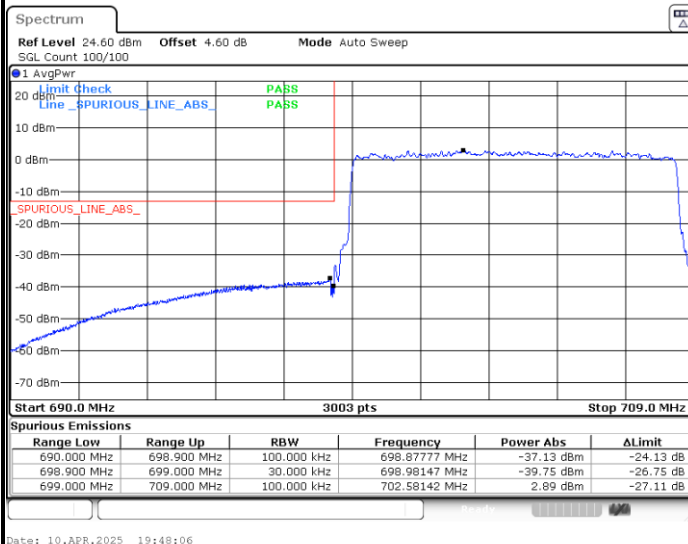
Lowest Band Edge / 1 RB



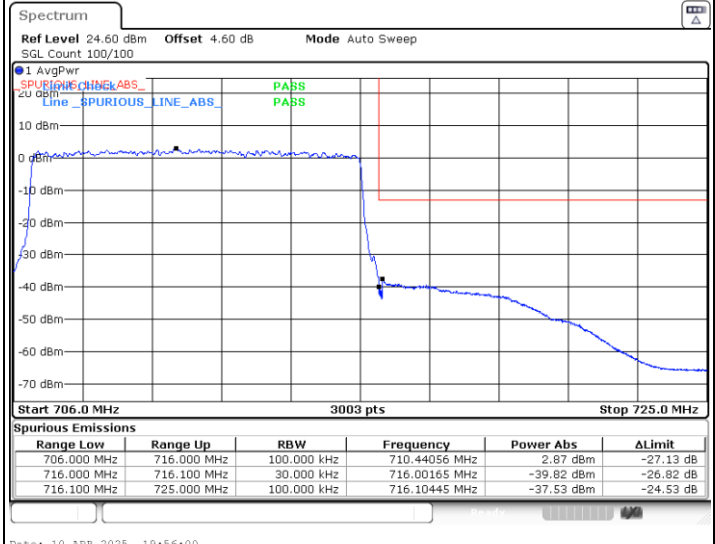
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



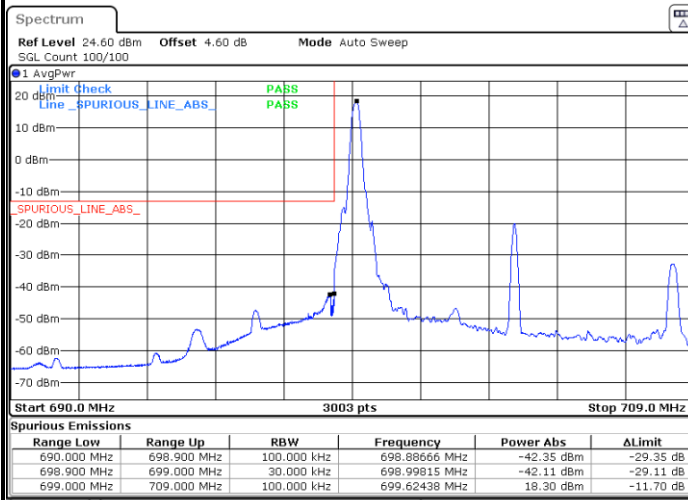
Highest Band Edge / Full RB



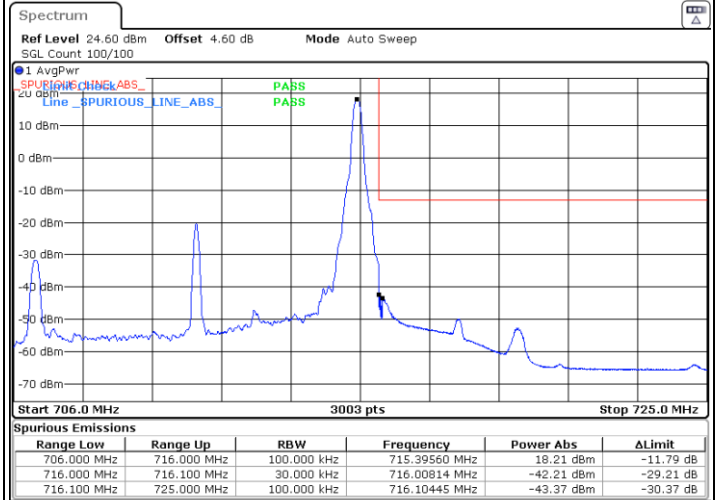


LTE Band 12 / 10MHz / 64QAM

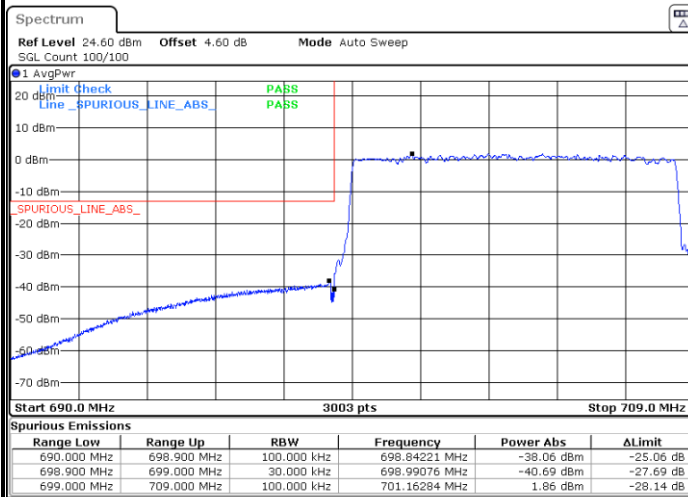
Lowest Band Edge / 1 RB



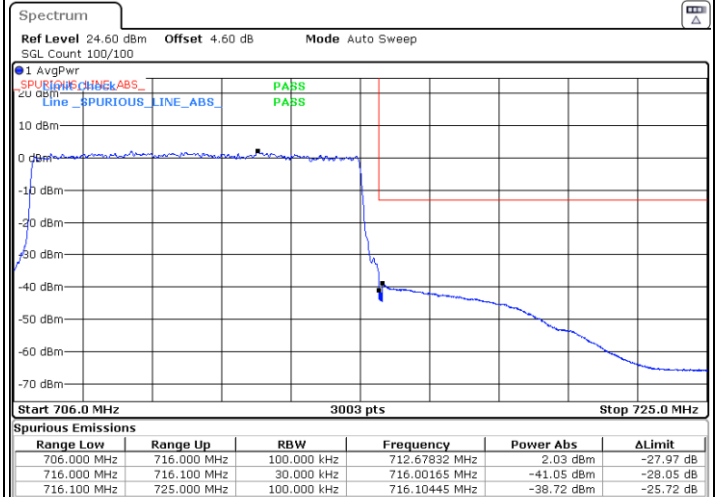
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

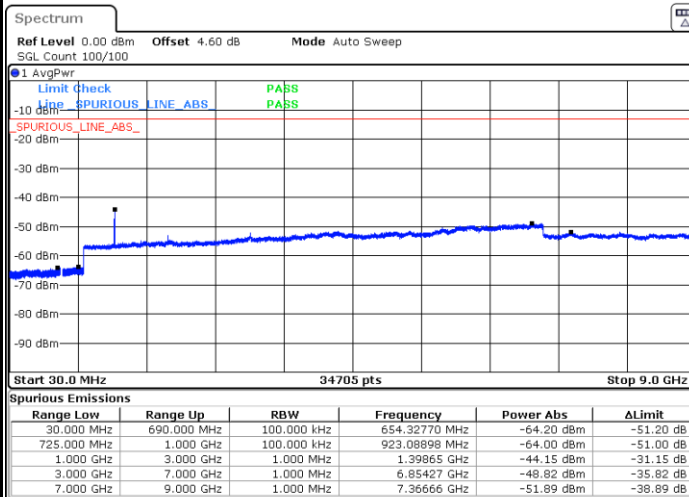




Conducted Spurious Emission

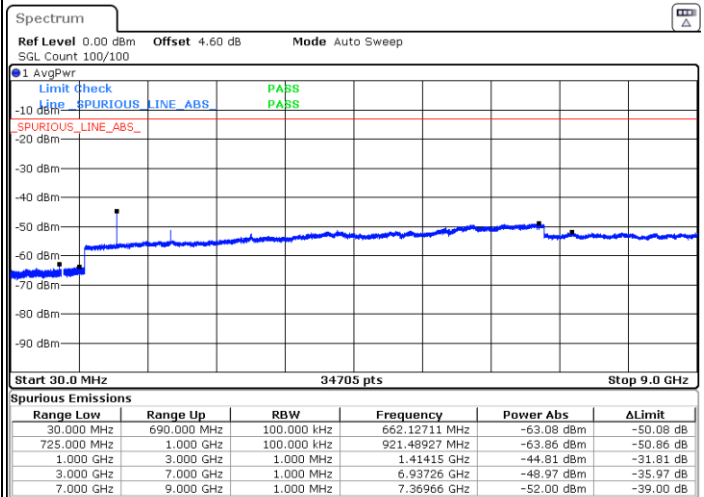
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



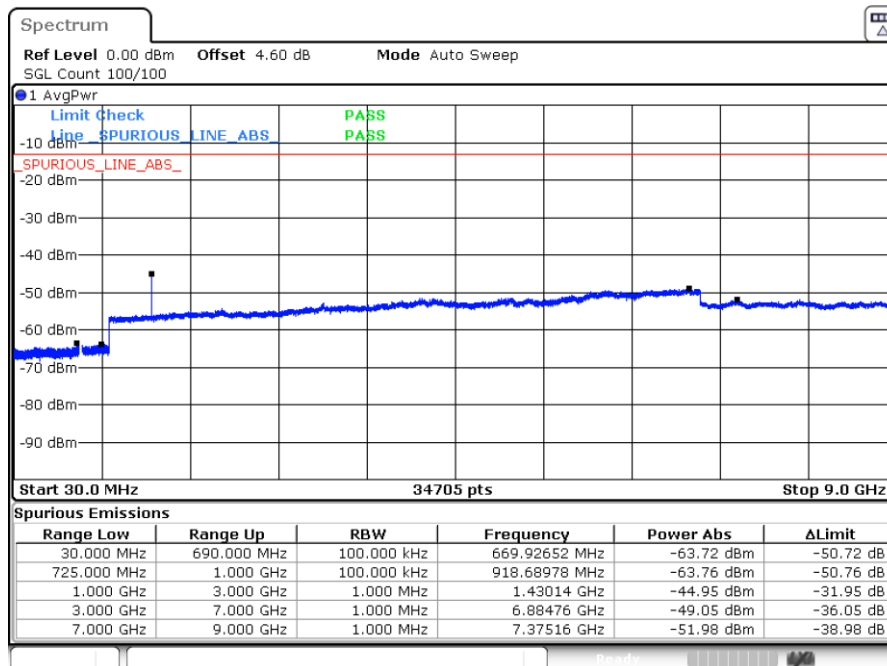
Date: 10.APR.2025 18:43:09

Middle Channel / QPSK



Date: 10.APR.2025 18:52:35

Highest Channel / QPSK

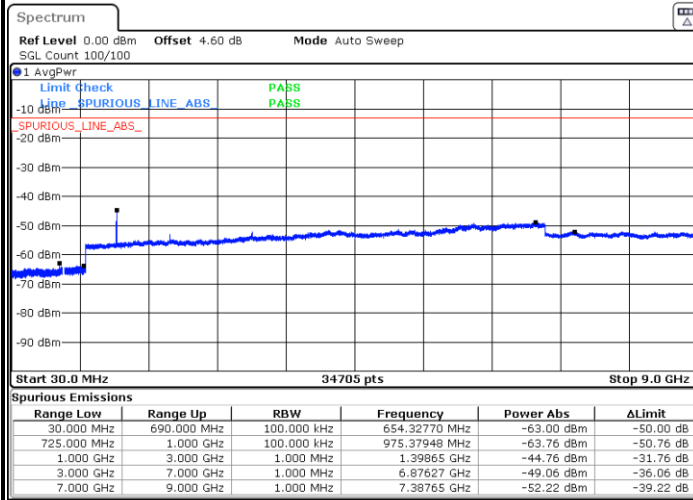


Date: 10.APR.2025 18:53:37



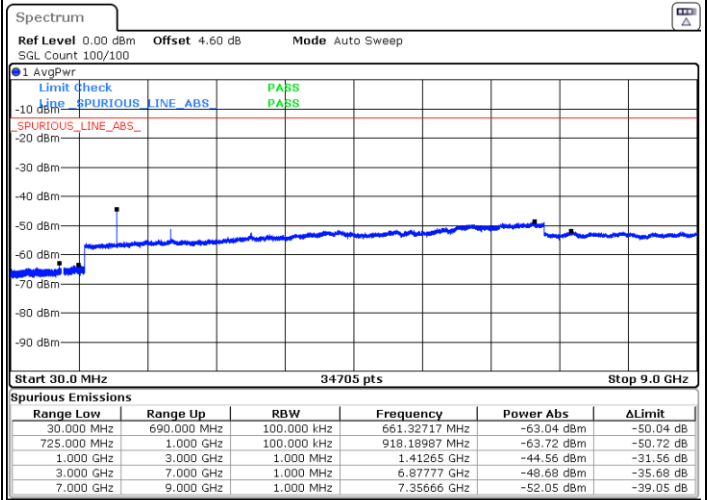
LTE Band 12 / 3MHz

Lowest Channel / QPSK



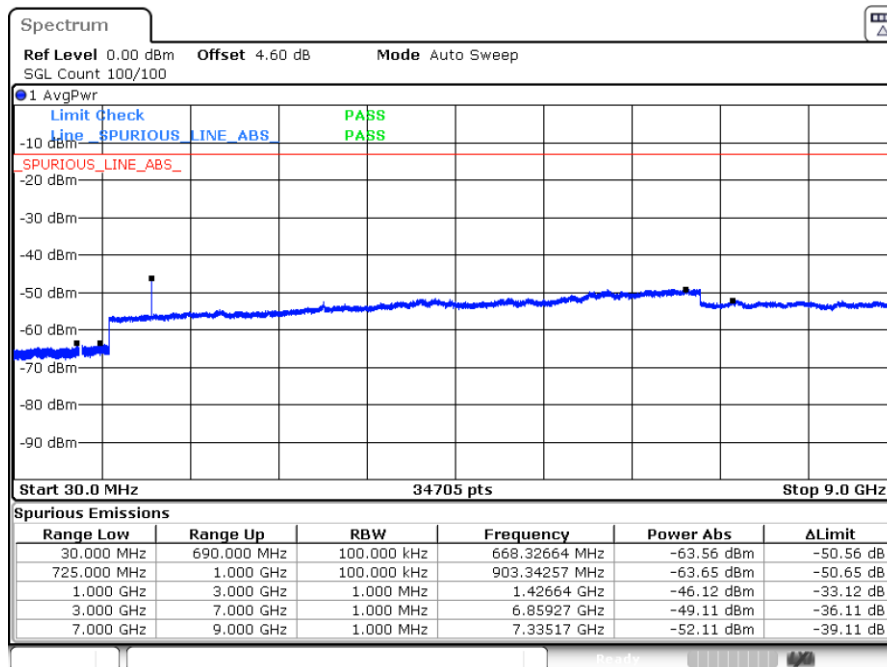
Date: 10.APR.2025 19:03:16

Middle Channel / QPSK



Date: 10.APR.2025 19:11:59

Highest Channel / QPSK

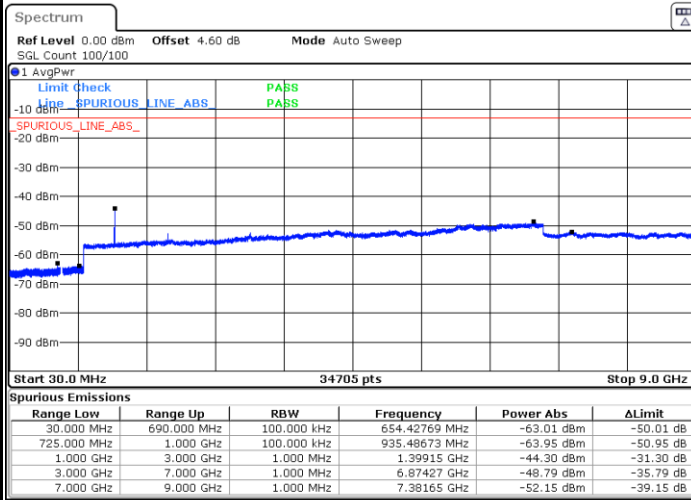


Date: 10.APR.2025 19:13:01



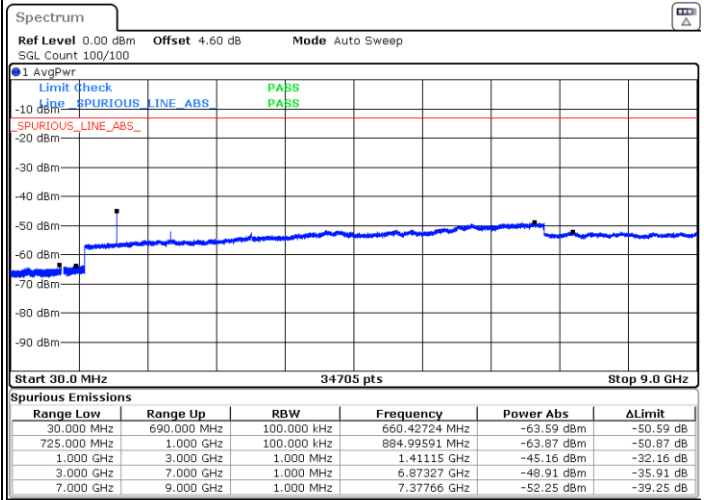
LTE Band 12 / 5MHz

Lowest Channel / QPSK



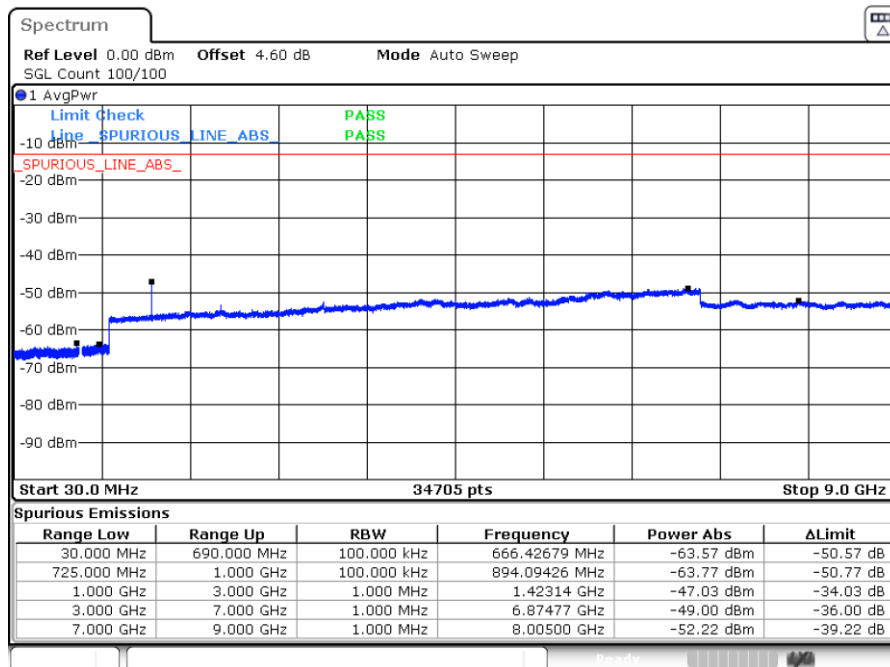
Date: 10.APR.2025 19:27:42

Middle Channel / QPSK



Date: 10.APR.2025 19:34:44

Highest Channel / QPSK

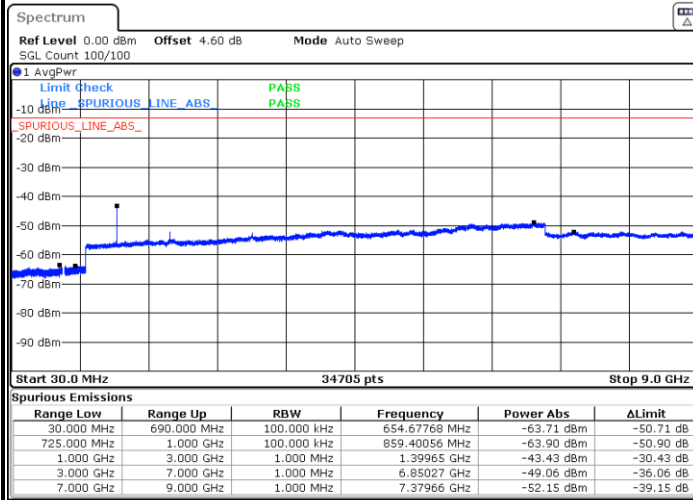


Date: 10.APR.2025 19:35:46



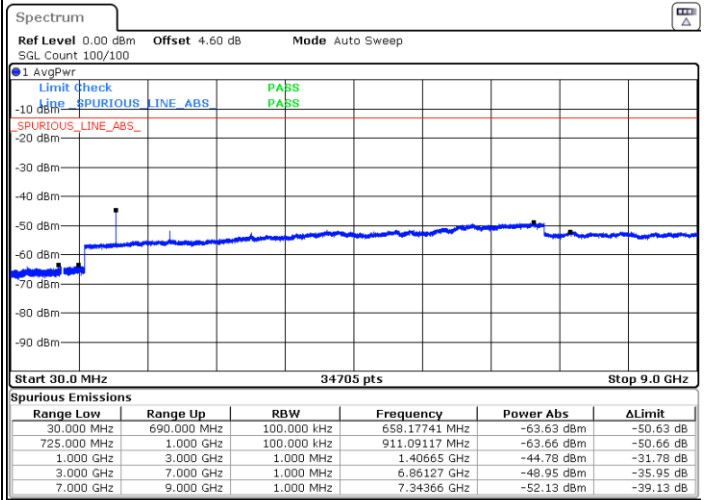
LTE Band 12 / 10MHz

Lowest Channel / QPSK



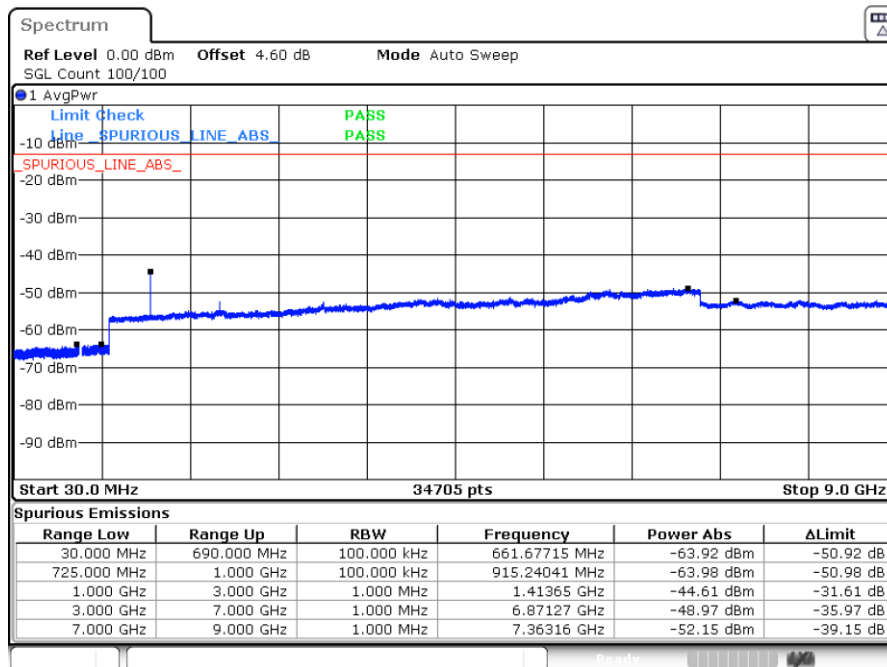
Date: 10.APR.2025 19:43:25

Middle Channel / QPSK



Date: 10.APR.2025 19:50:06

Highest Channel / QPSK



Date: 10.APR.2025 19:51:09

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	0.0003	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0020	

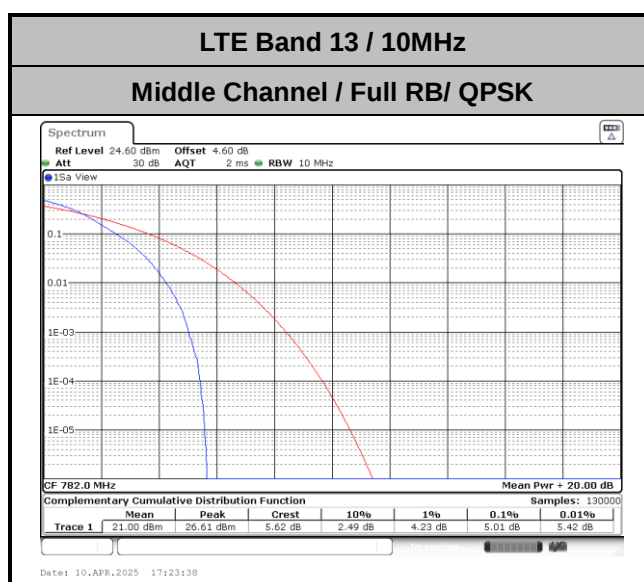
Note:

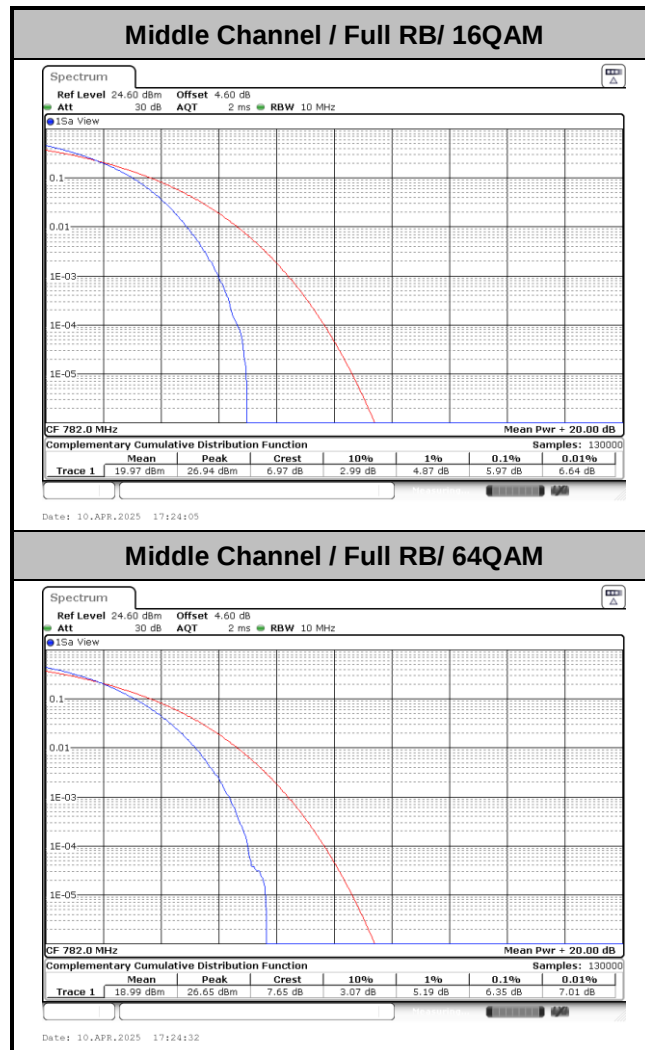
1. Normal Voltage =3.9 V.; Battery End Point (BEP) =3.5 V.; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

Peak-to-Average Ratio

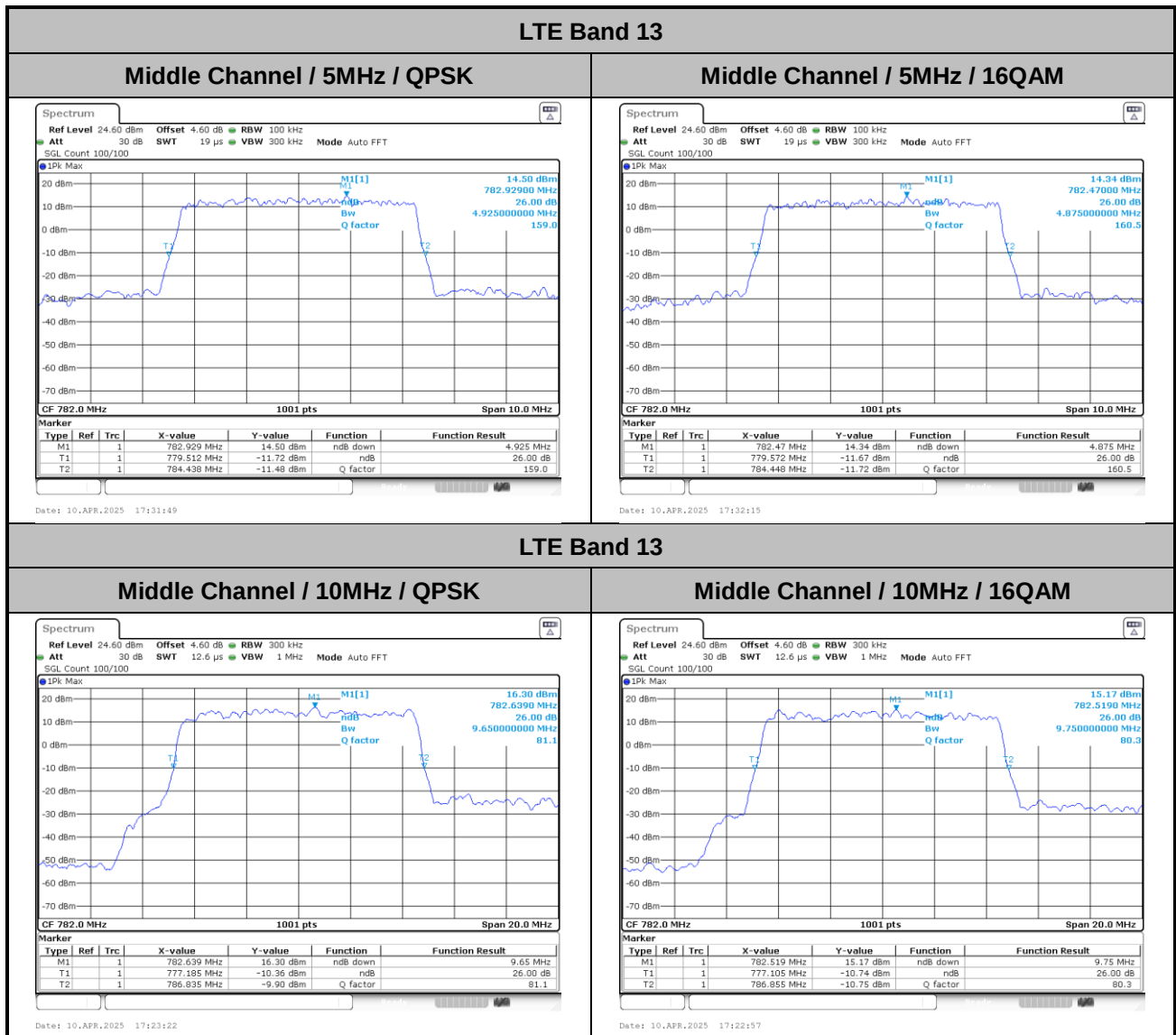
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.01	5.97	6.35	PASS





**26dB Bandwidth**

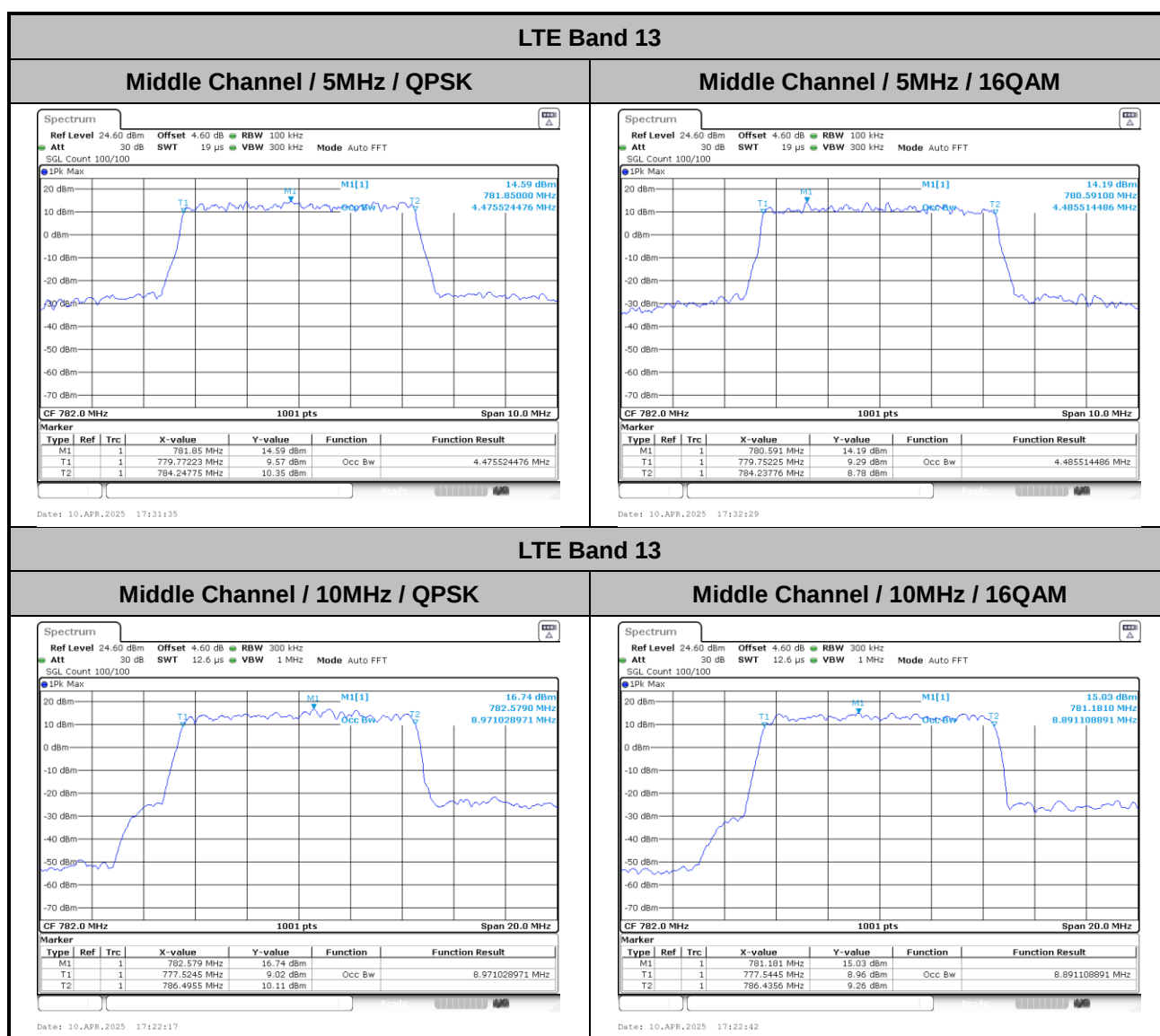
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.93	4.88
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.65	9.75





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.97	8.89

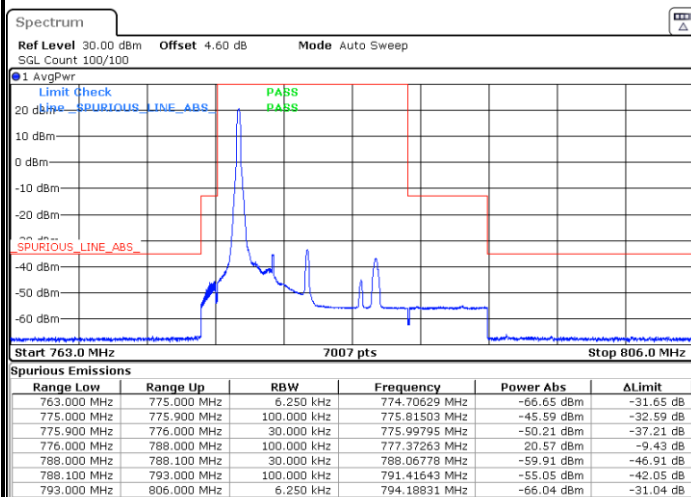




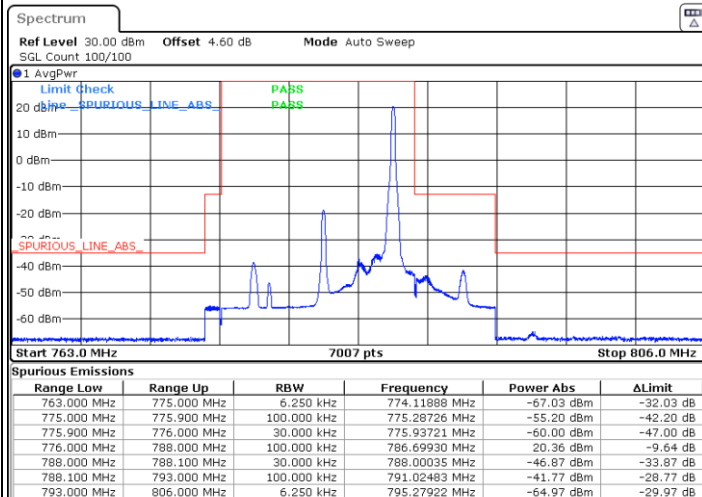
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

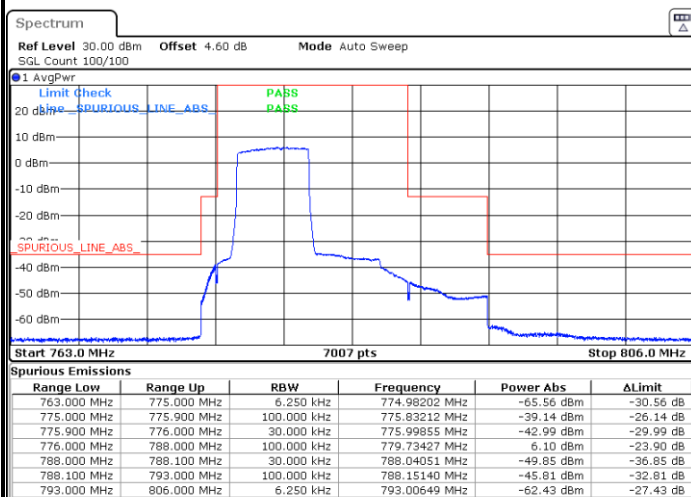
Lowest Band Edge / 1 RB



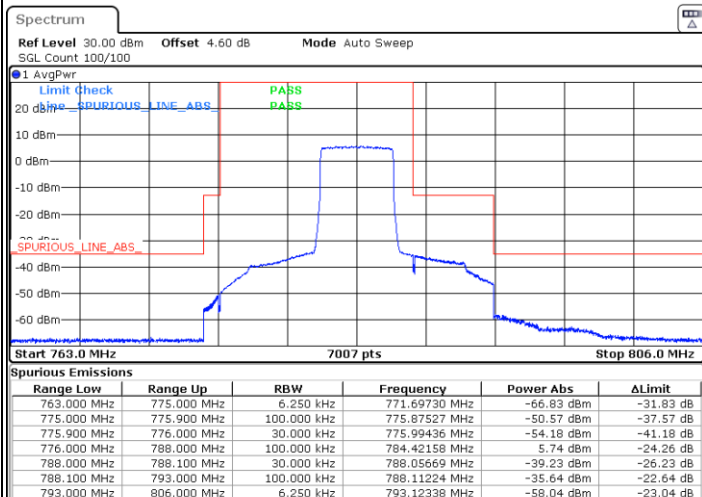
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



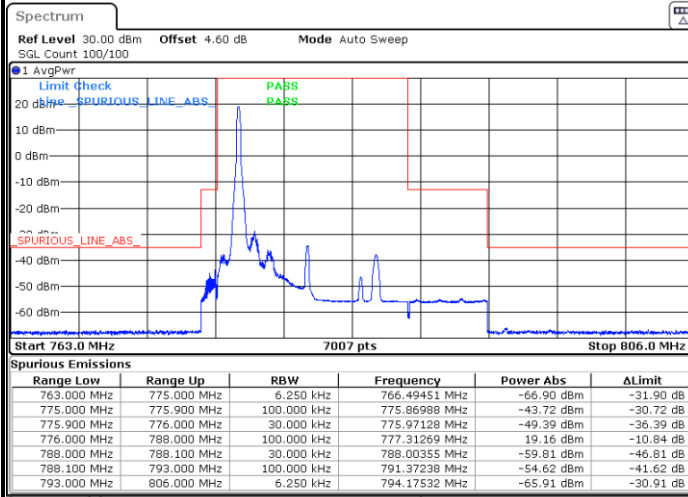
Highest Band Edge / Full RB





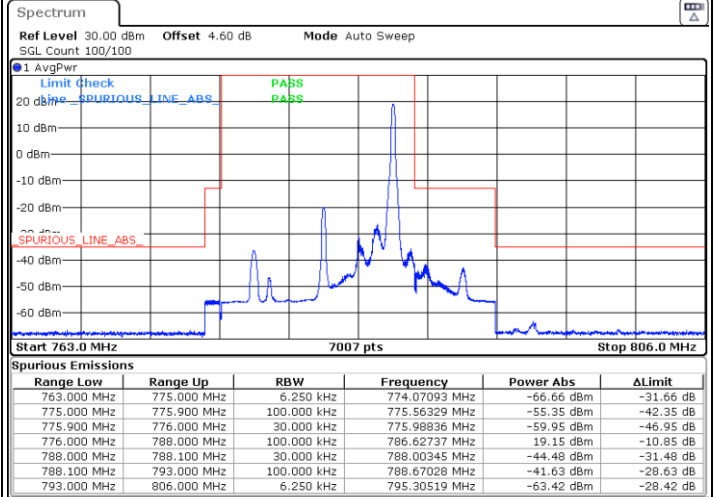
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



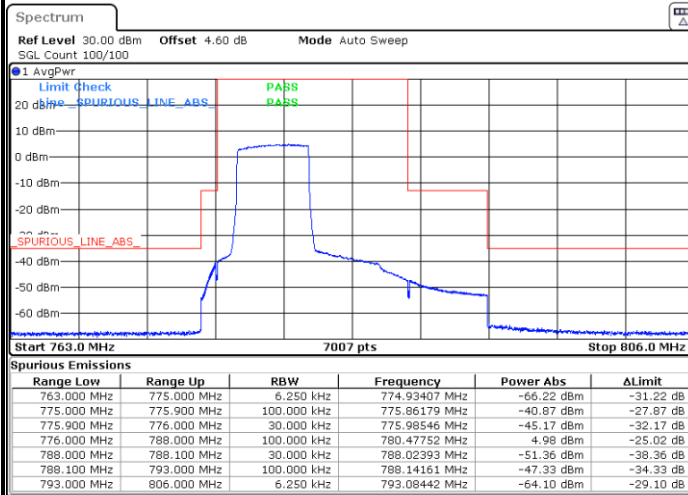
Date: 10.APR.2025 15:57:09

Highest Band Edge / 1 RB



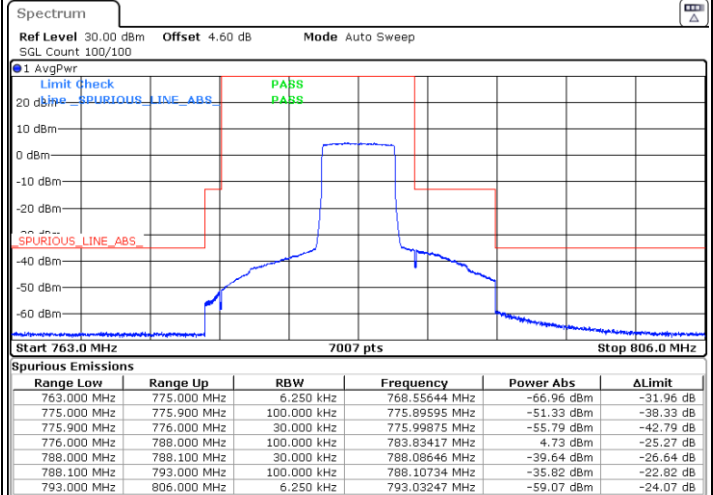
Date: 10.APR.2025 16:07:17

Lowest Band Edge / Full RB



Date: 10.APR.2025 16:01:11

Highest Band Edge / Full RB



Date: 10.APR.2025 16:11:20