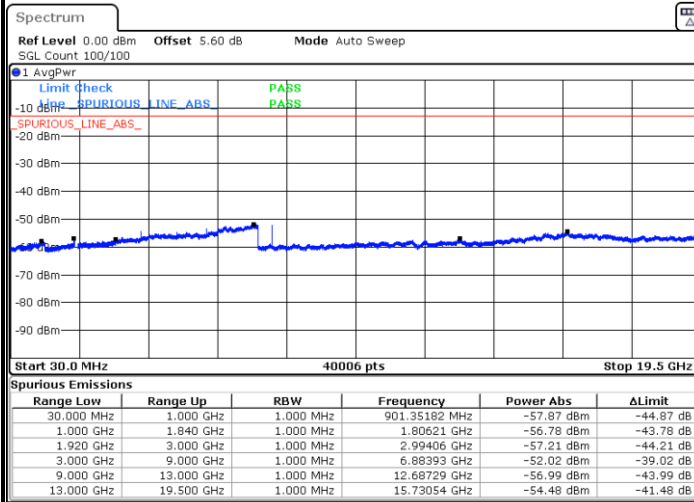




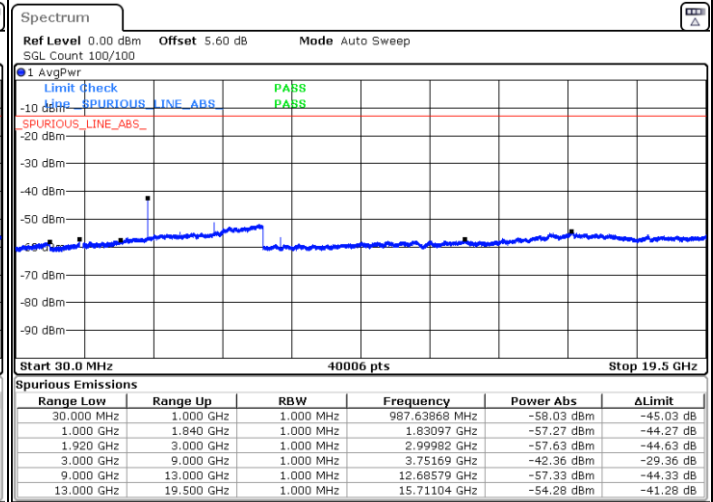
LTE Band 2 / 10MHz

Lowest Channel / QPSK



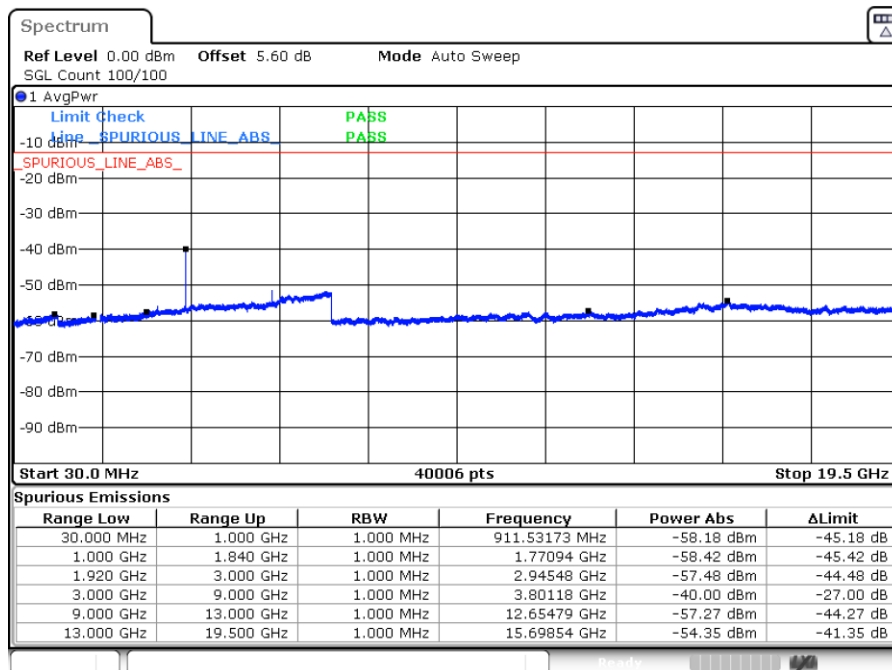
Date: 29.APR.2022 02:26:36

Middle Channel / QPSK



Date: 29.APR.2022 02:36:09

Highest Channel / QPSK

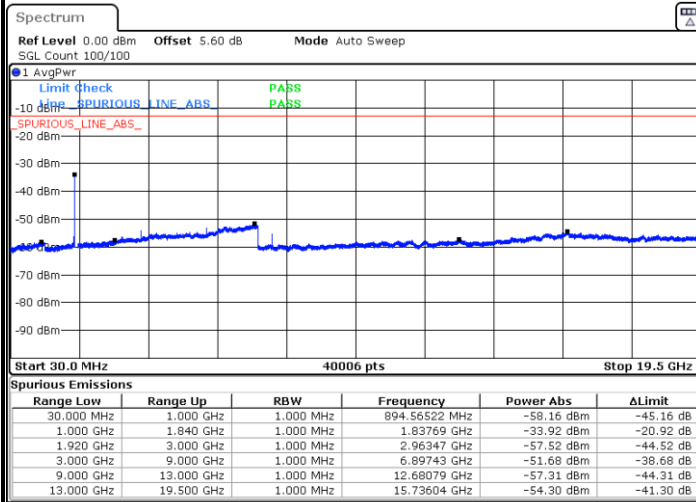


Date: 29.APR.2022 02:37:34



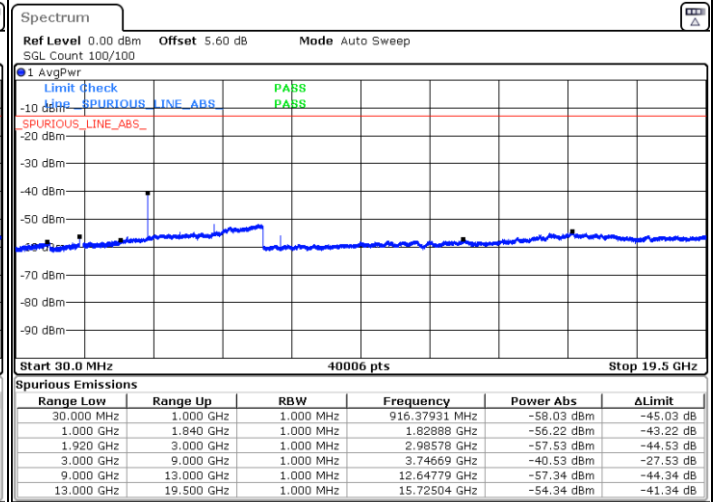
LTE Band 2 / 15MHz

Lowest Channel / QPSK



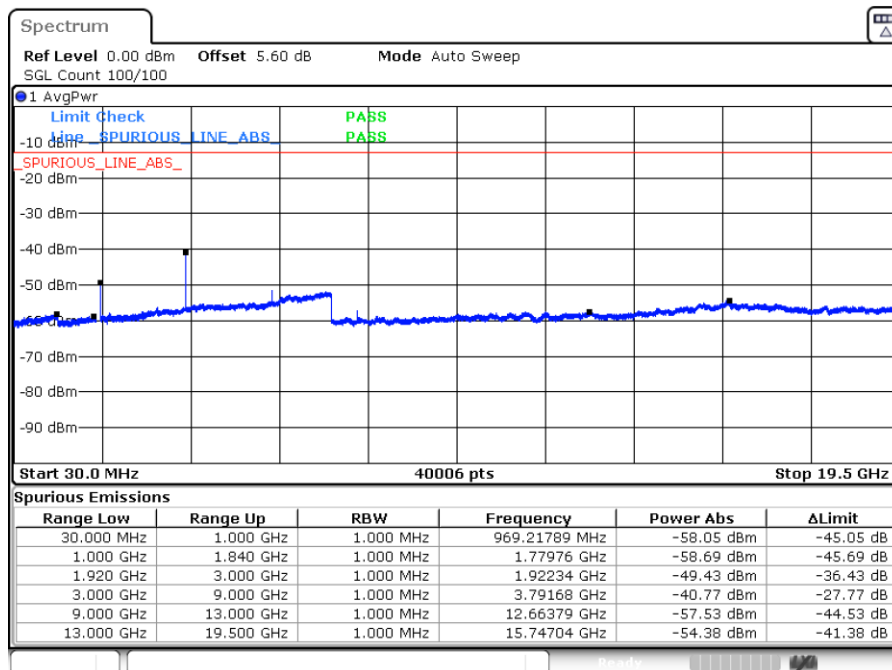
Date: 29.APR.2022 02:47:17

Middle Channel / QPSK



Date: 29.APR.2022 02:56:50

Highest Channel / QPSK

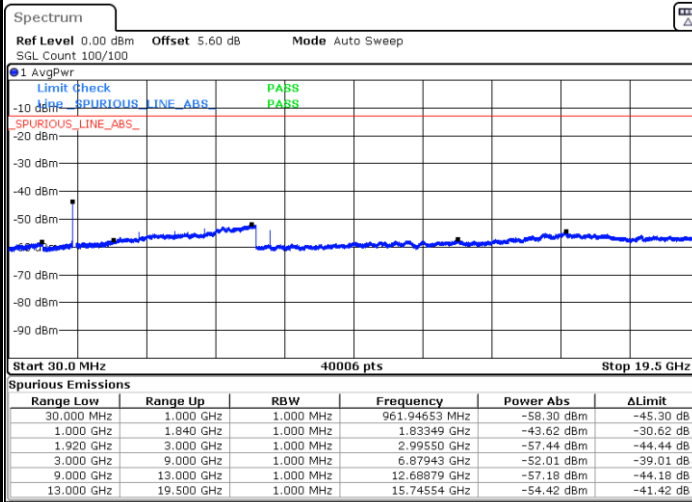


Date: 29.APR.2022 02:58:15



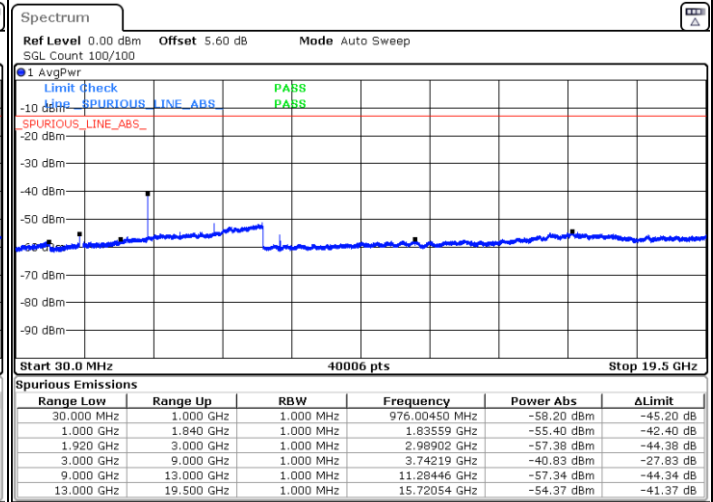
LTE Band 2 / 20MHz

Lowest Channel / QPSK



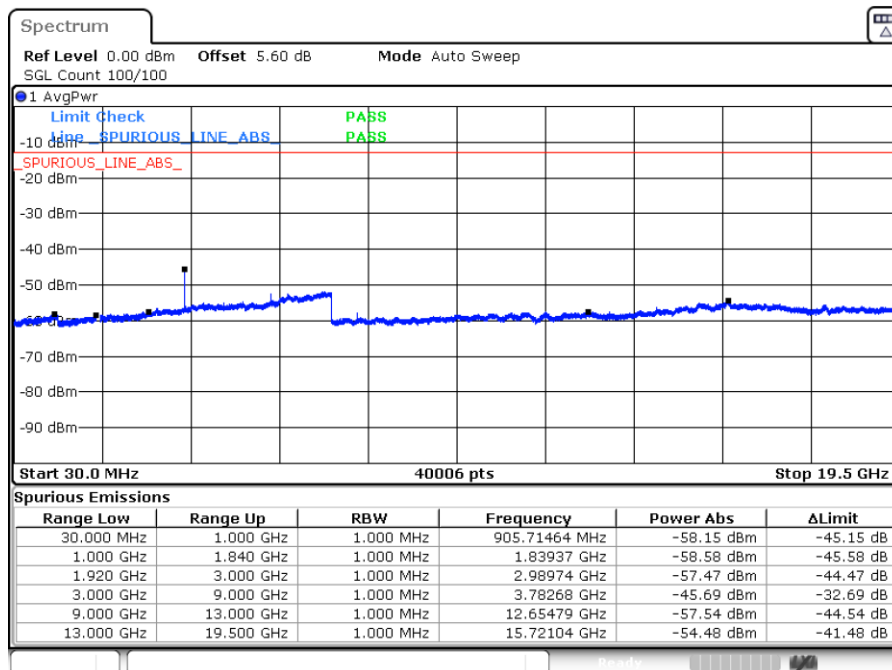
Date: 29.APR.2022 03:07:58

Middle Channel / QPSK



Date: 29.APR.2022 03:17:31

Highest Channel / QPSK



Date: 29.APR.2022 03:18:56

**Frequency Stability**

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0106	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0097	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0048	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0096	
20	Battery End Point	0.0037	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

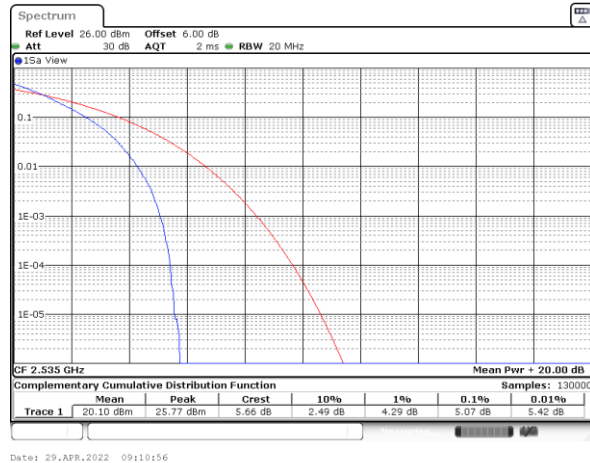
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.07	6.12	5.62	PASS

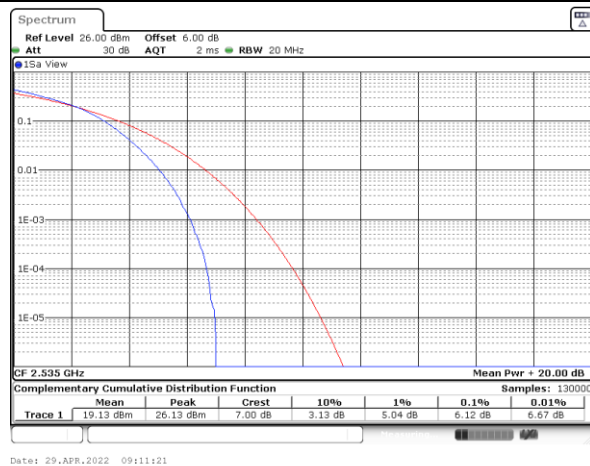


LTE Band 7 / 20MHz

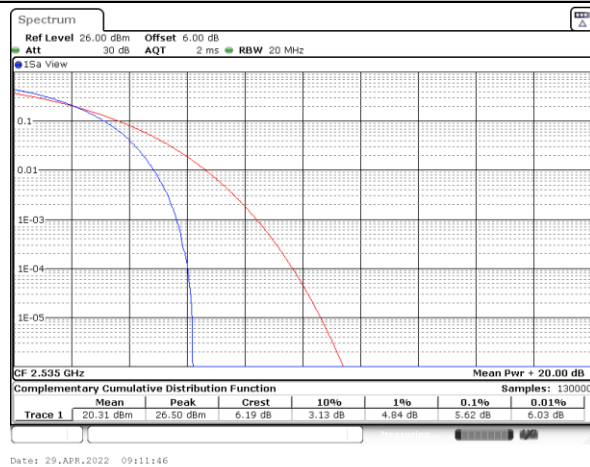
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM

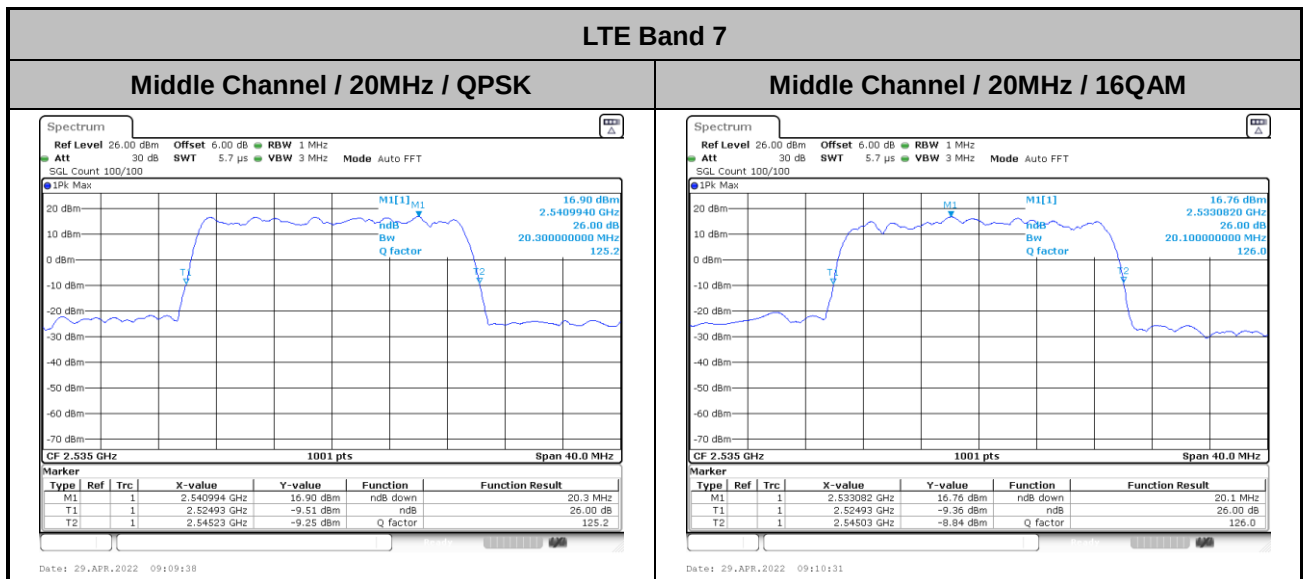


Middle Channel / Full RB/ 64QAM



**26dB Bandwidth**

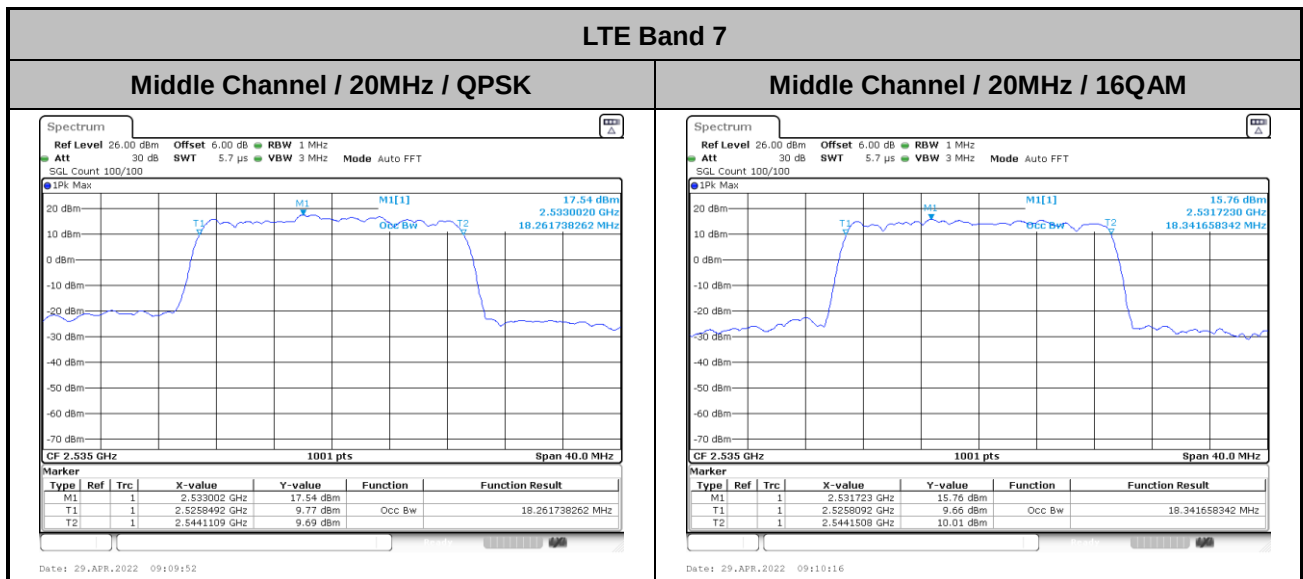
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.30	20.10





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.26	18.34

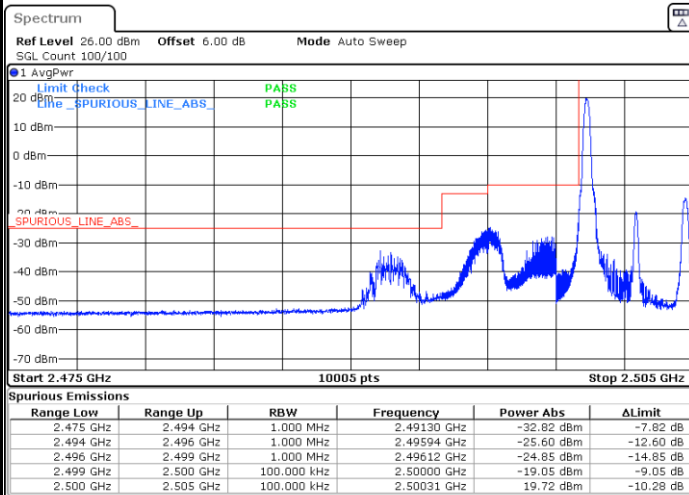




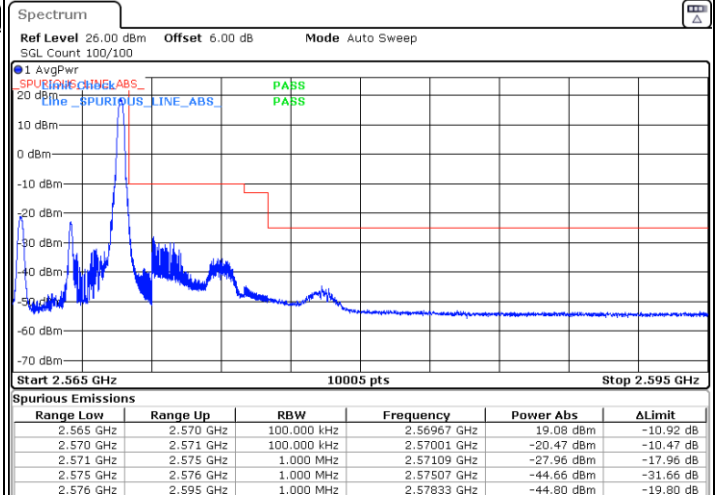
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

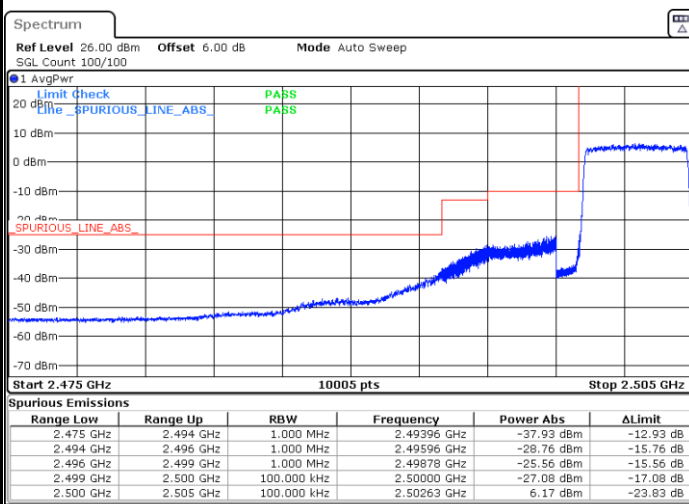
Lowest Band Edge / 1 RB



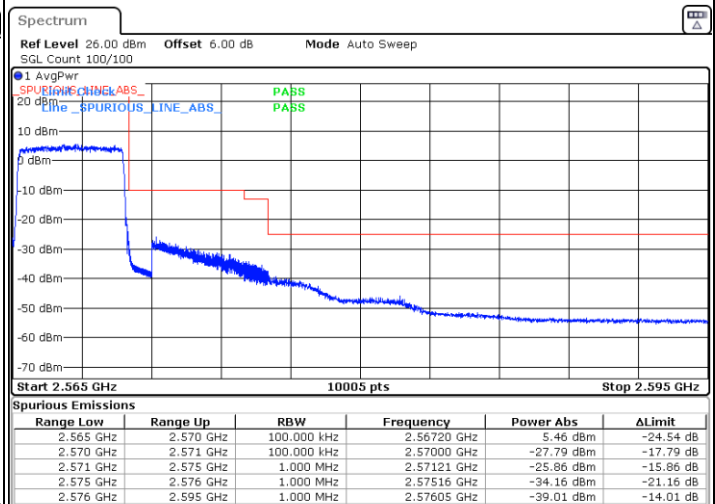
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



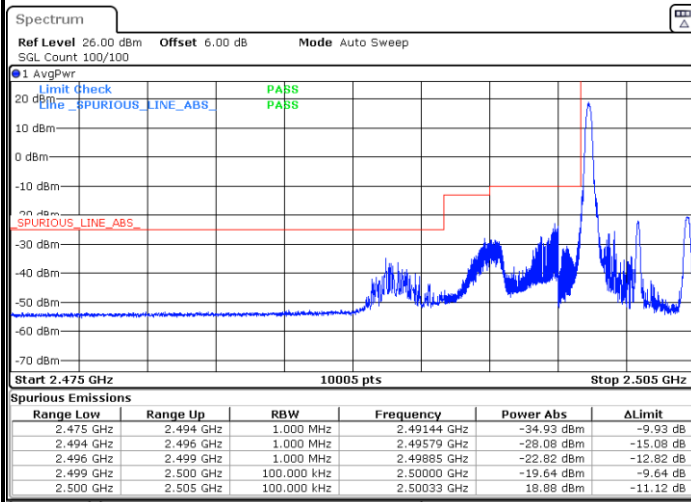
Highest Band Edge / Full RB



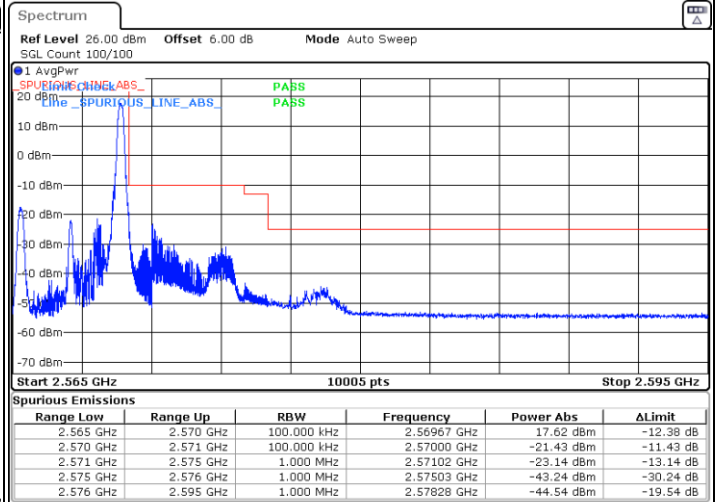


LTE Band 7 / 5MHz / 16QAM

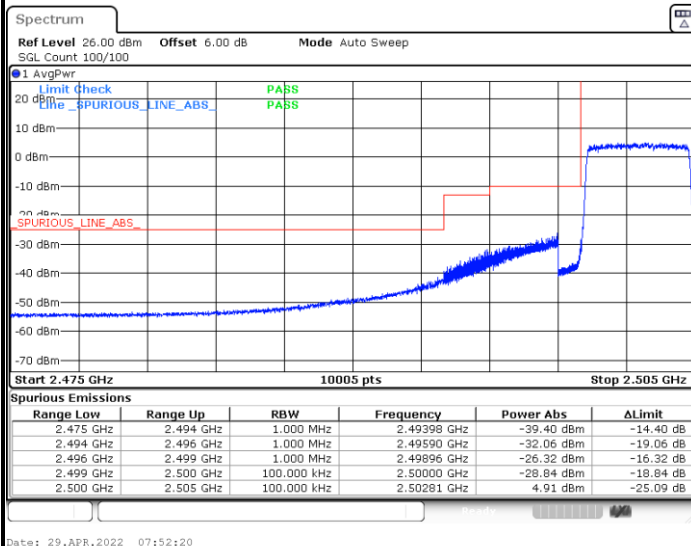
Lowest Band Edge / 1RB



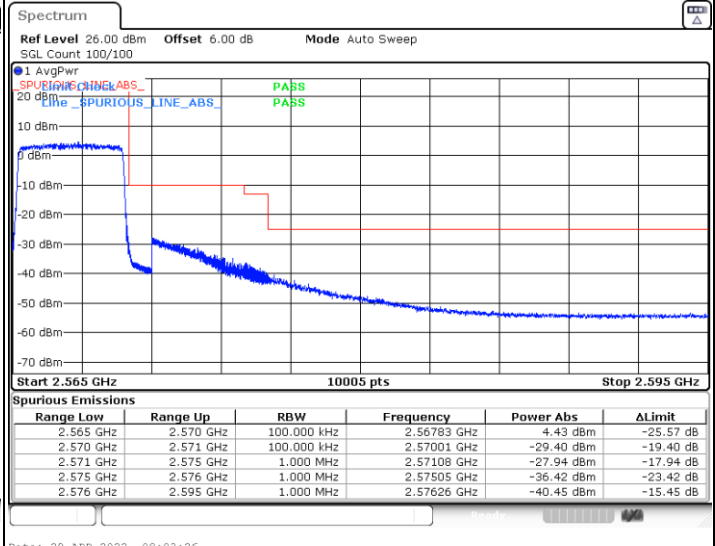
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



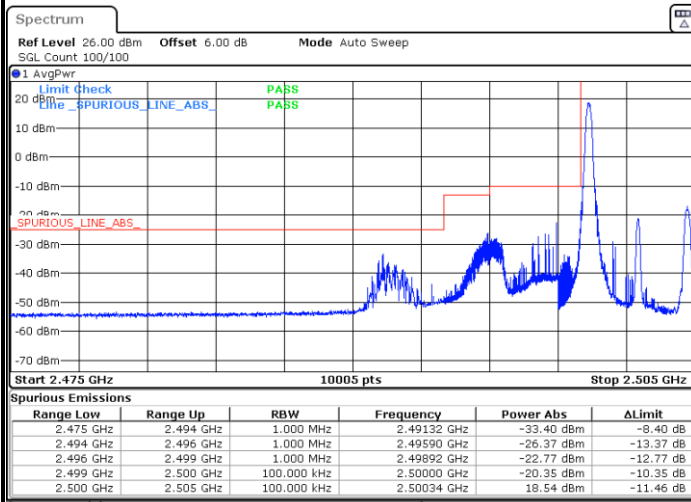
Highest Band Edge / Full RB



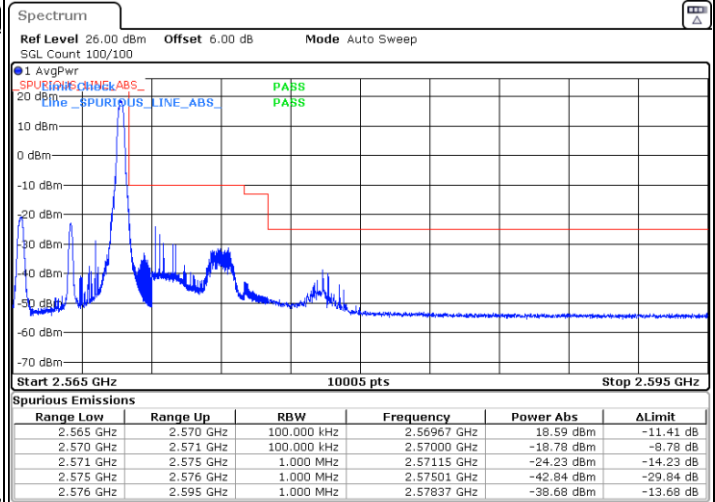


LTE Band 7 / 5MHz / 64QAM

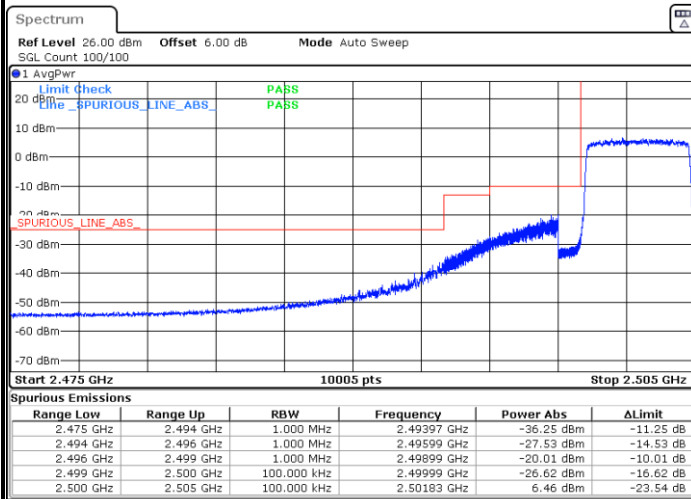
Lowest Band Edge / 1RB



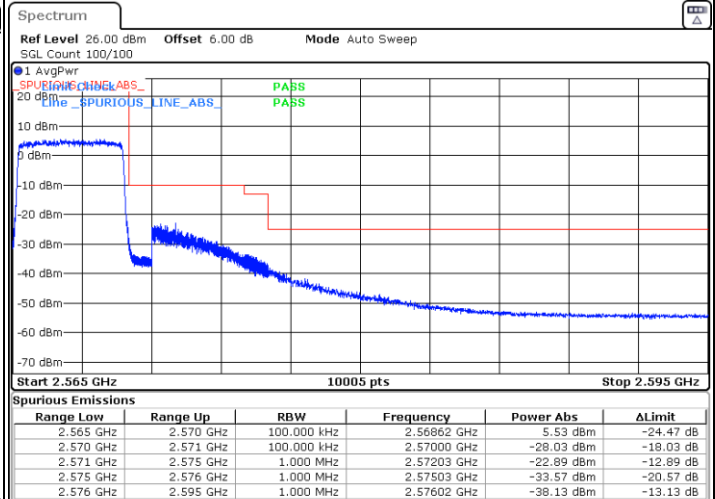
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



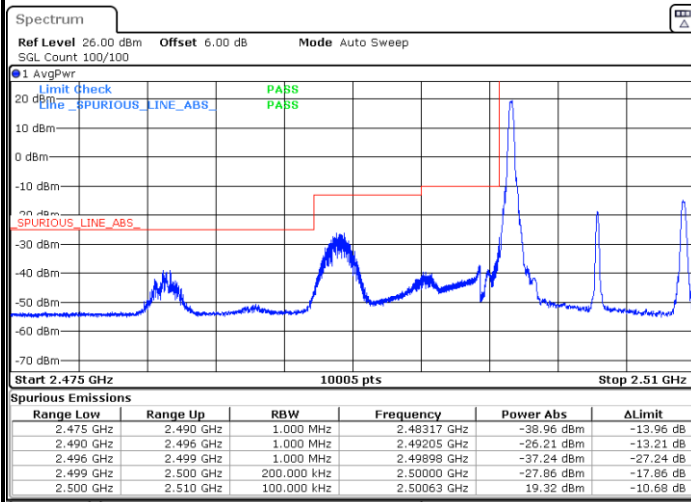
Highest Band Edge / Full RB



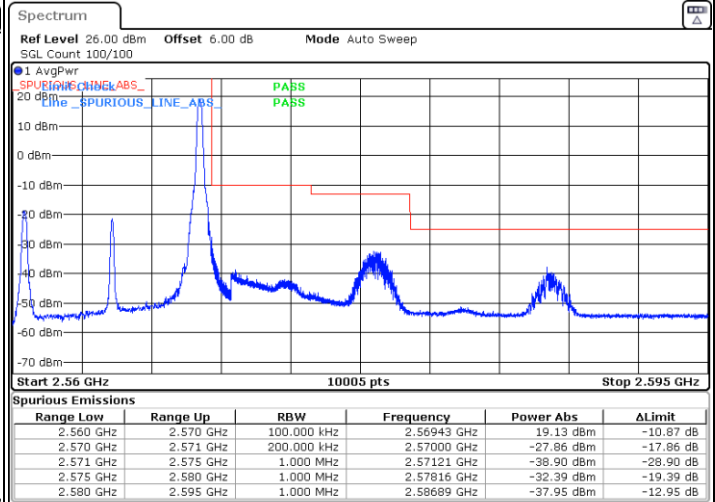


LTE Band 7 / 10MHz / QPSK

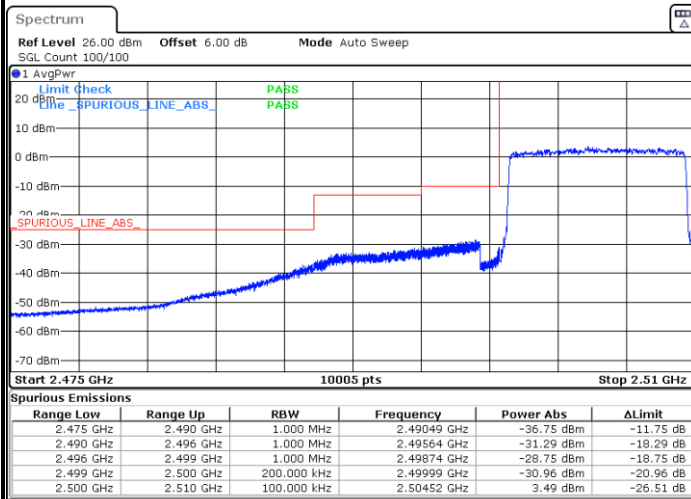
Lowest Band Edge / 1 RB



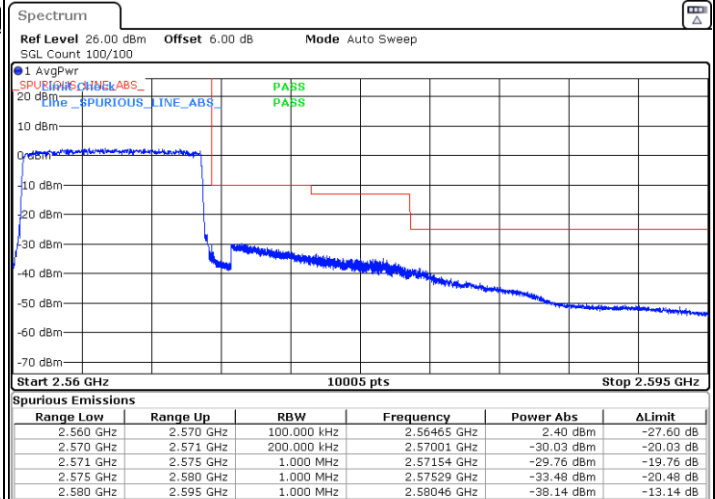
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



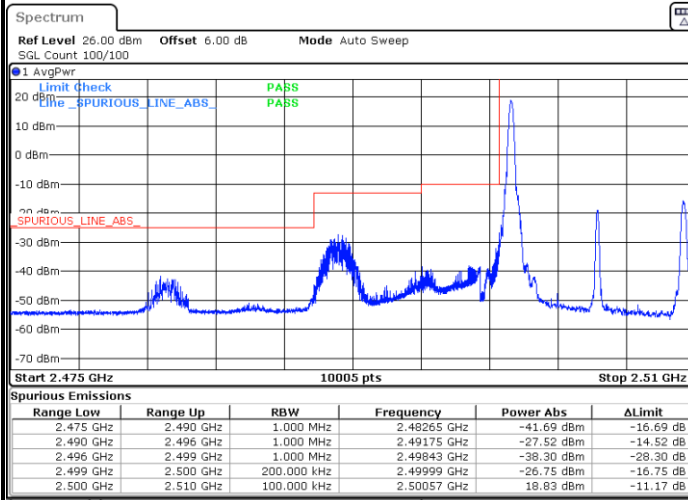
Highest Band Edge / Full RB



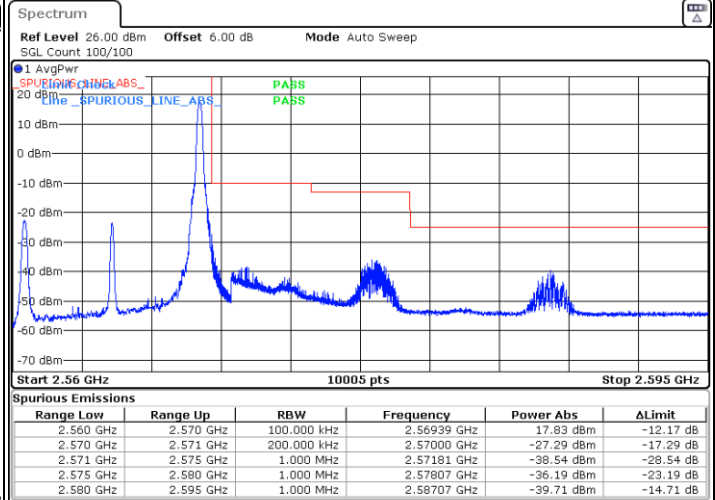


LTE Band 7 / 10MHz / 16QAM

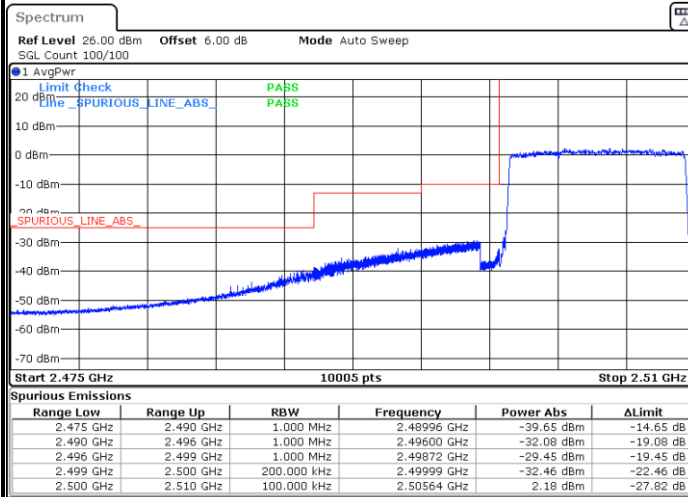
Lowest Band Edge / 1 RB



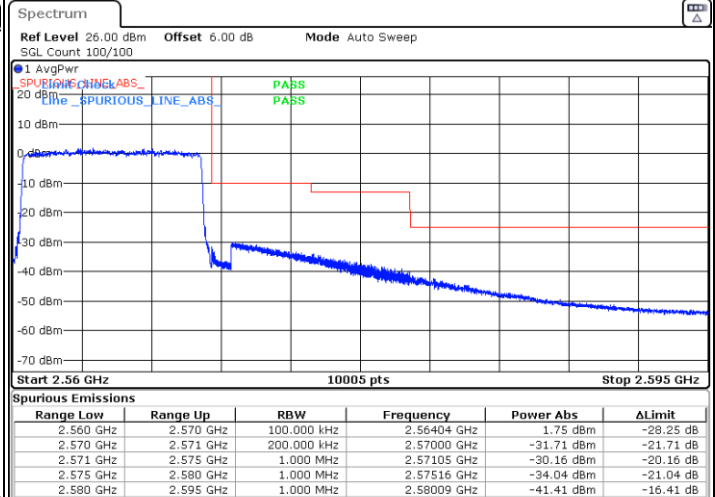
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



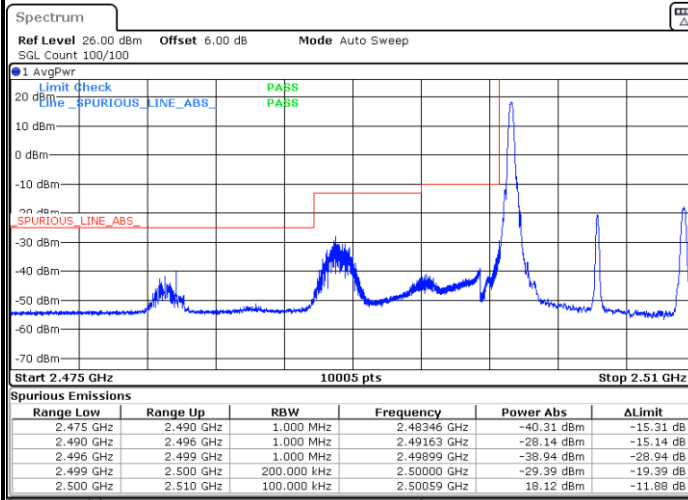
Highest Band Edge / Full RB



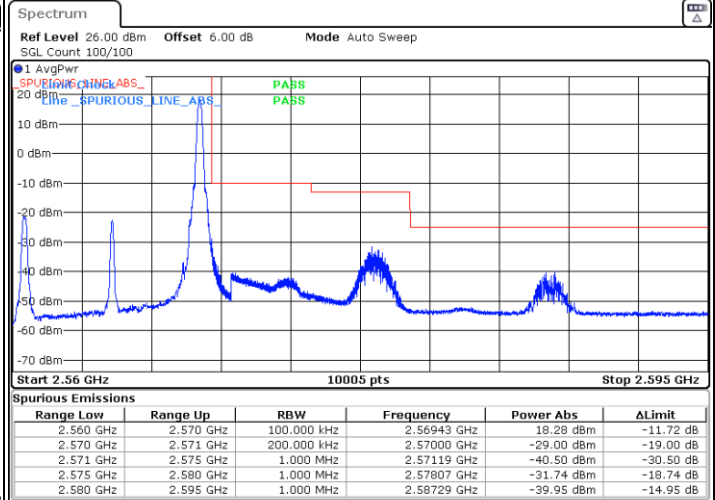


LTE Band 7 / 10MHz / 64QAM

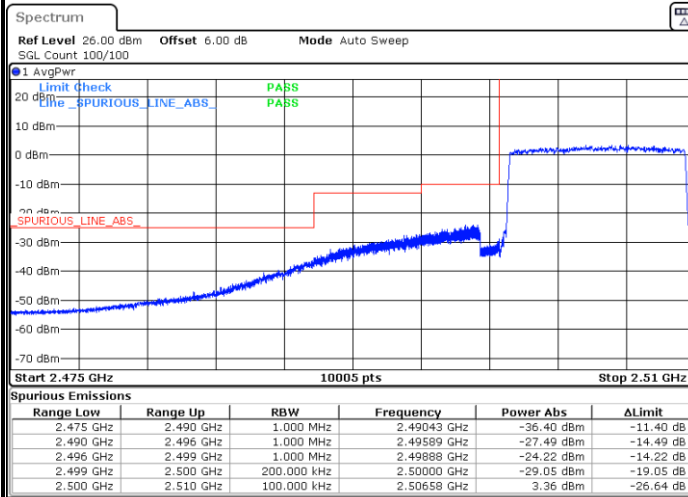
Lowest Band Edge / 1 RB



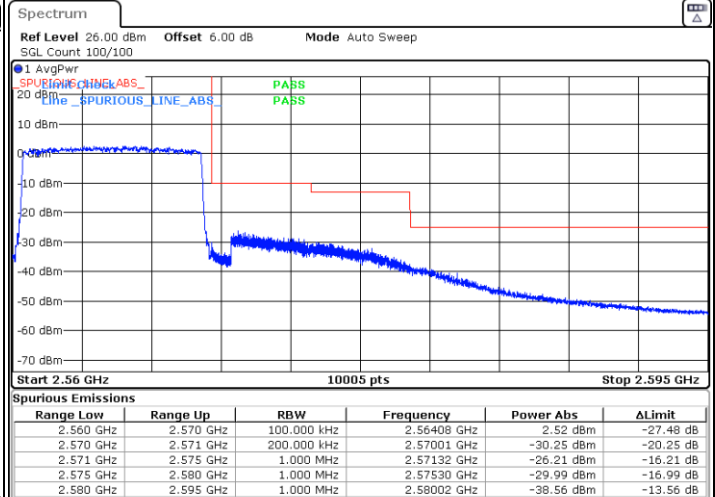
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



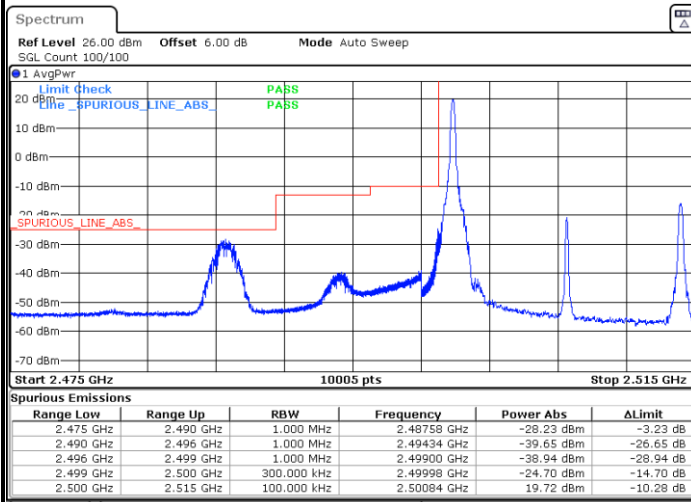
Highest Band Edge / Full RB



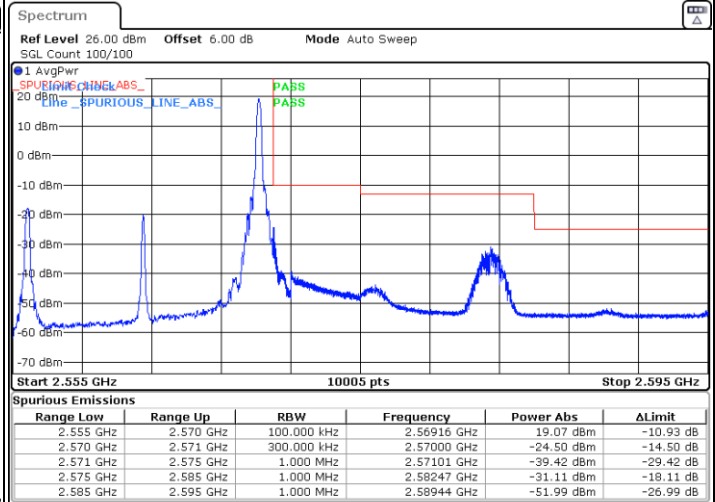


LTE Band 7 / 15MHz / QPSK

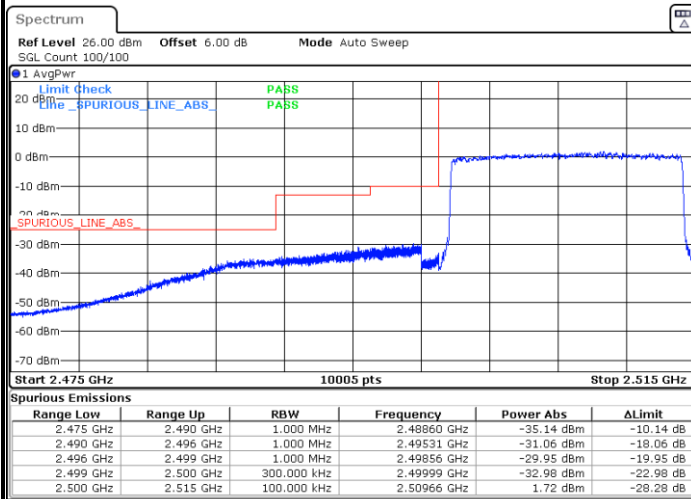
Lowest Band Edge / 1 RB



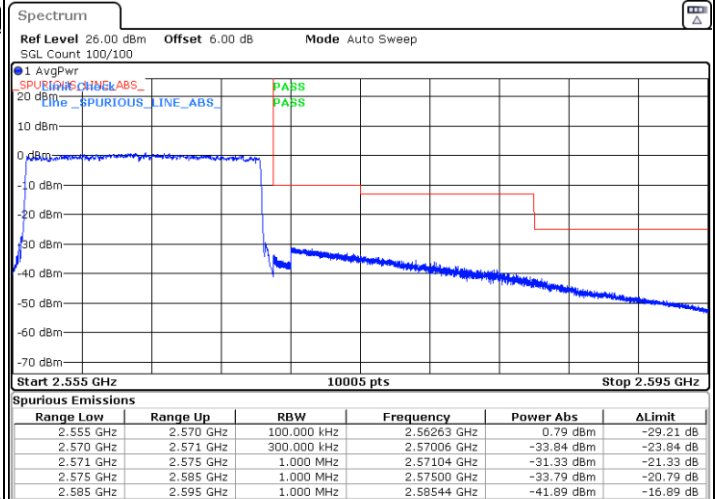
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



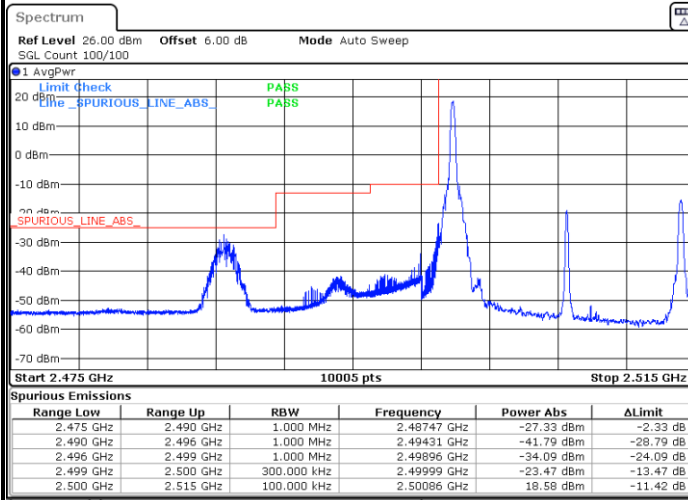
Highest Band Edge / Full RB



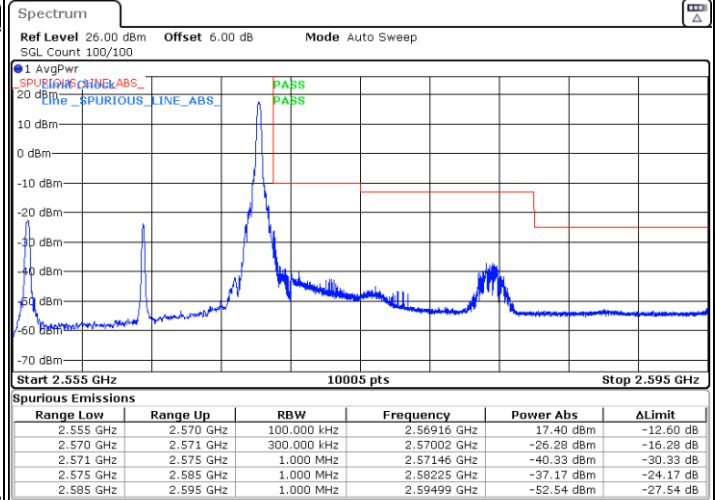


LTE Band 7 / 15MHz / 16QAM

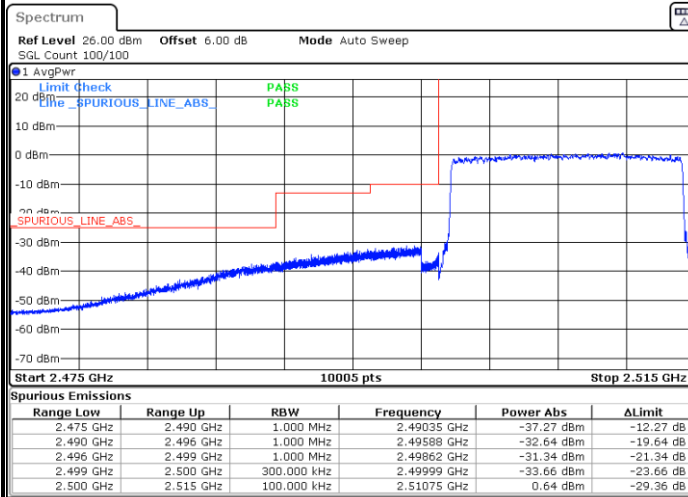
Lowest Band Edge / 1 RB



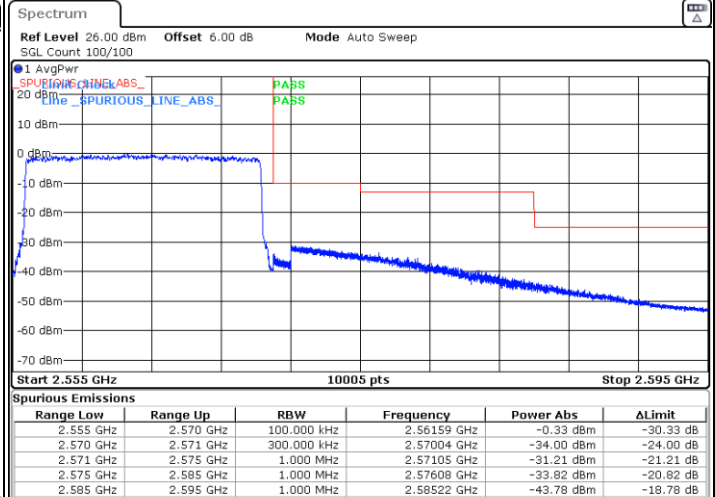
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



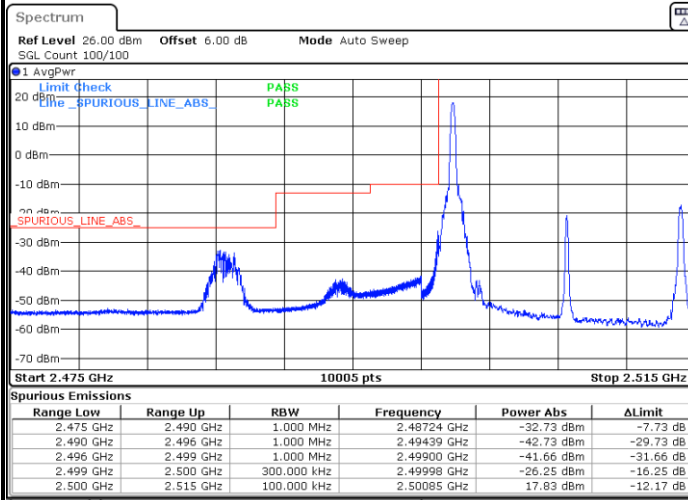
Highest Band Edge / Full RB



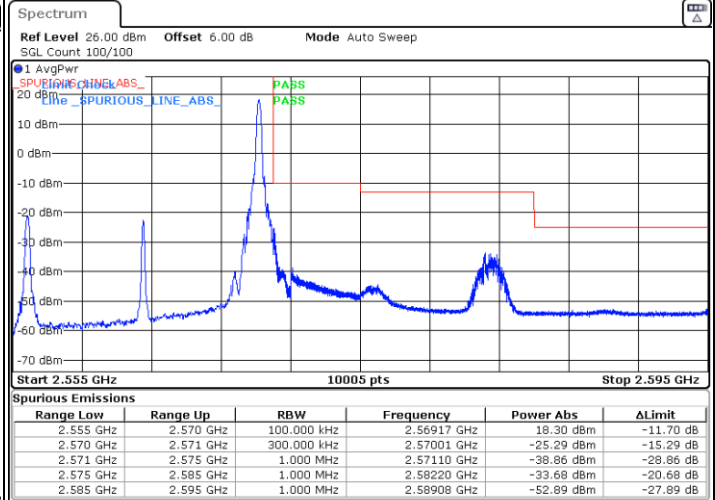


LTE Band 7 / 15MHz / 64QAM

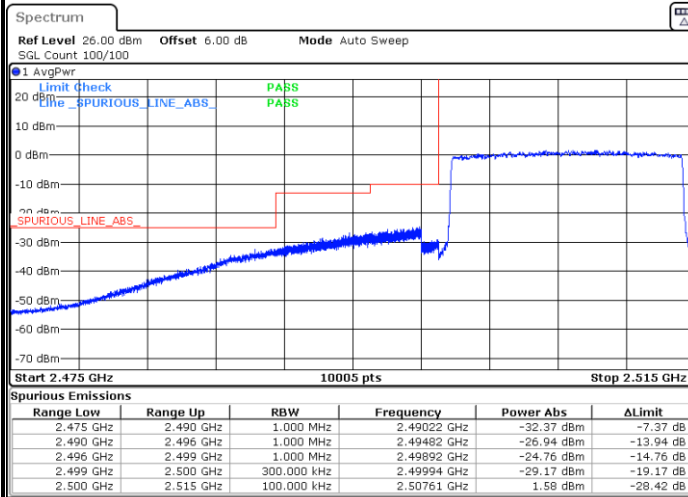
Lowest Band Edge / 1 RB



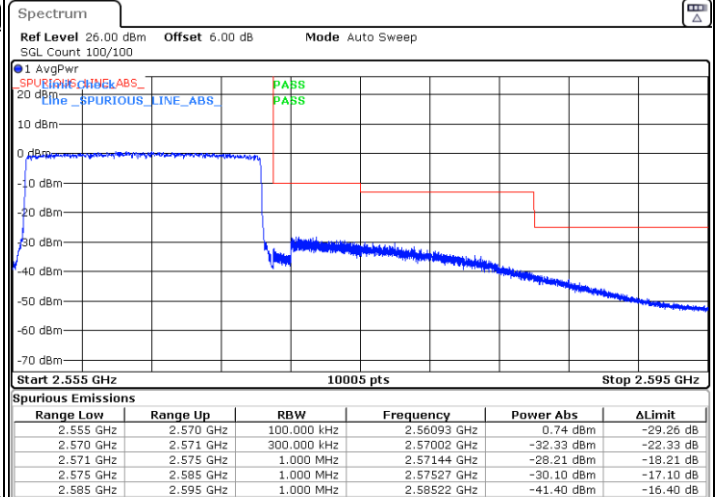
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



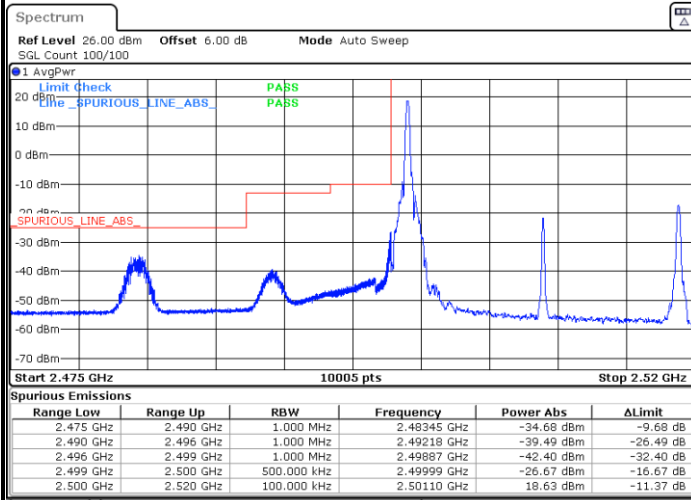
Highest Band Edge / Full RB



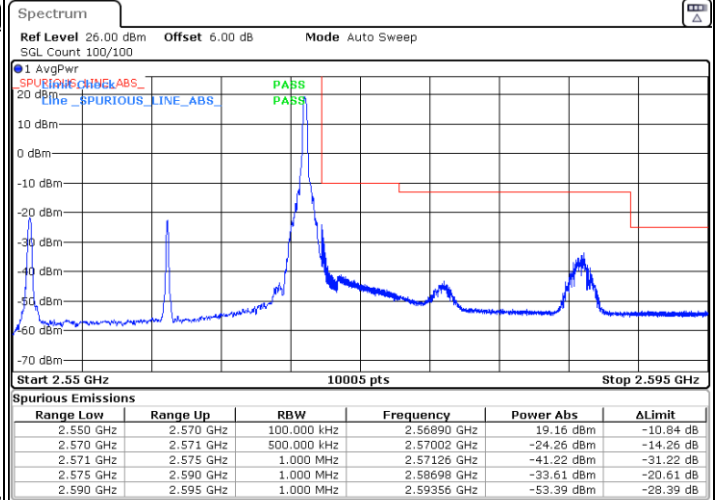


LTE Band 7 / 20MHz / QPSK

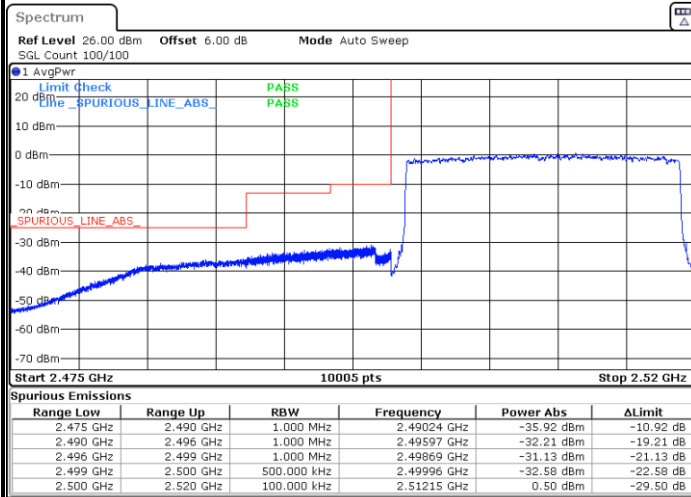
Lowest Band Edge / 1 RB



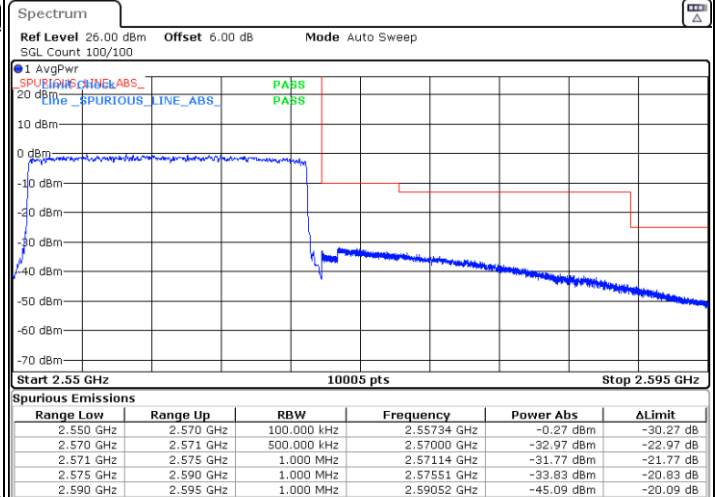
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



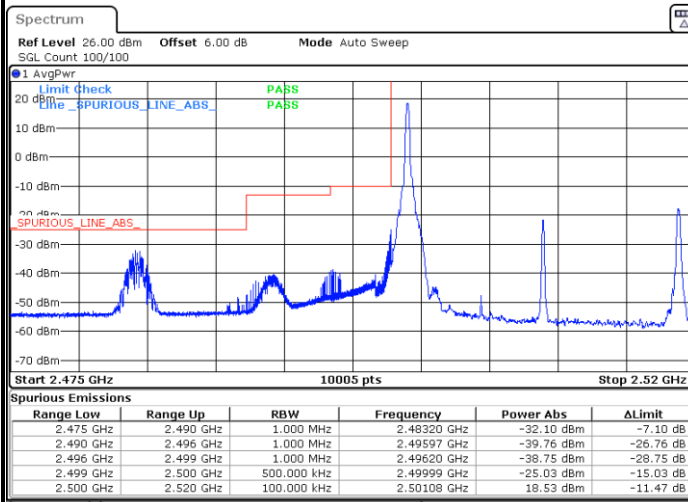
Highest Band Edge / Full RB



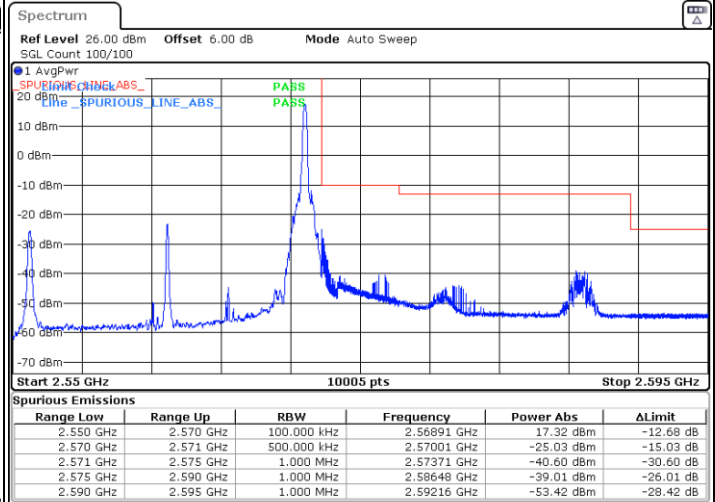


LTE Band 7 / 20MHz / 16QAM

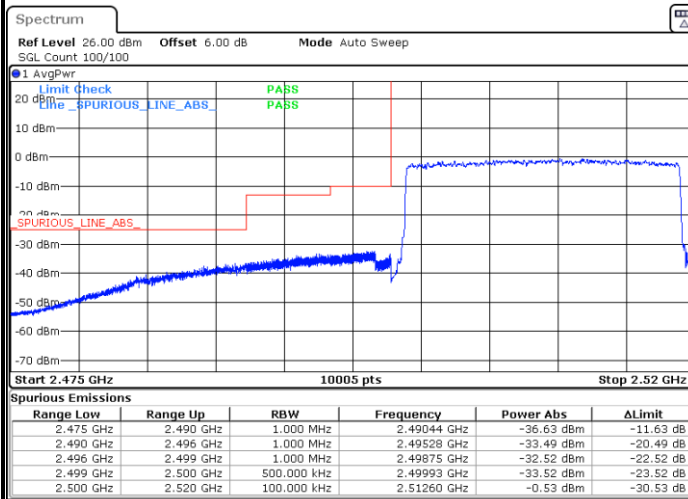
Lowest Band Edge / 1 RB



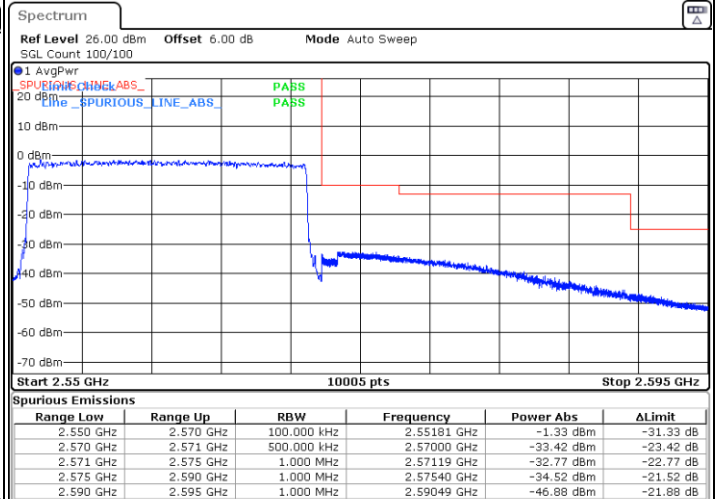
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



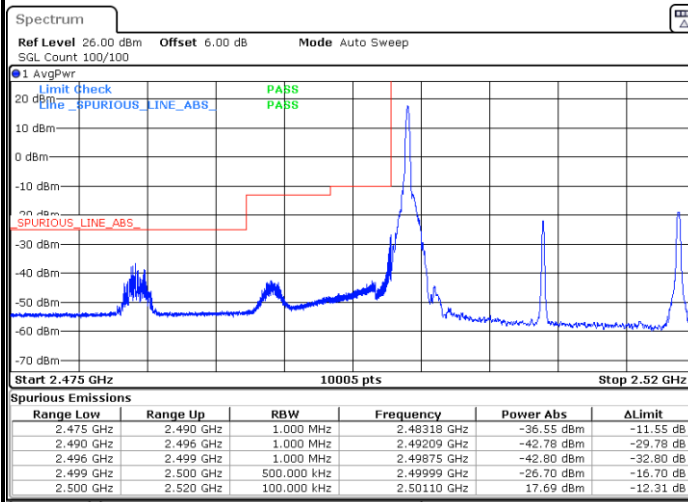
Highest Band Edge / Full RB





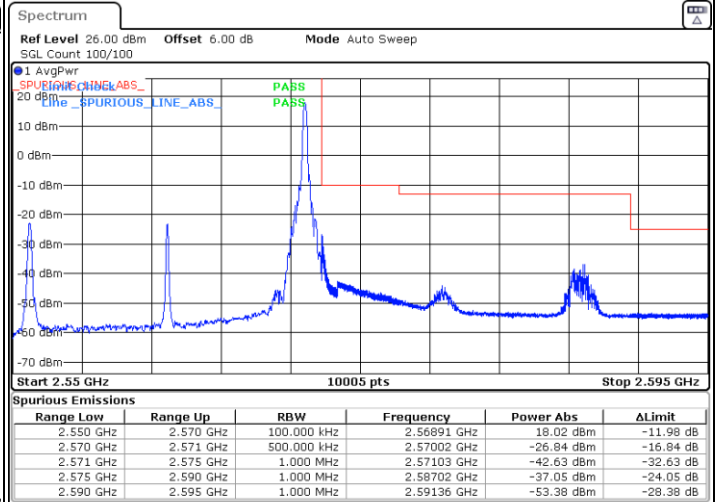
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



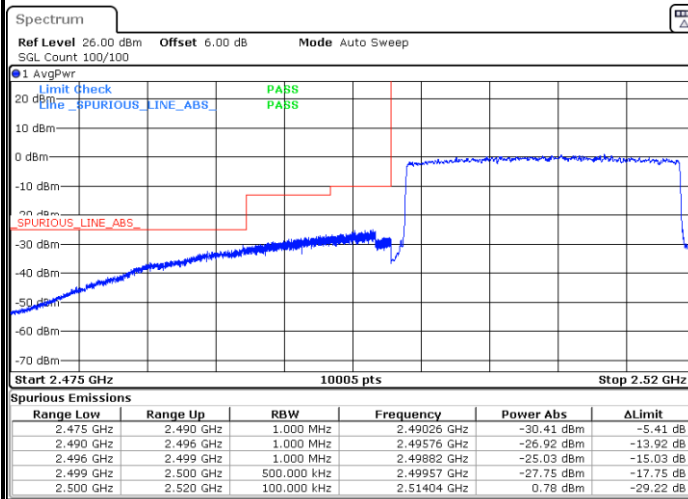
Date: 29.APR.2022 08:53:18

Highest Band Edge / 1 RB



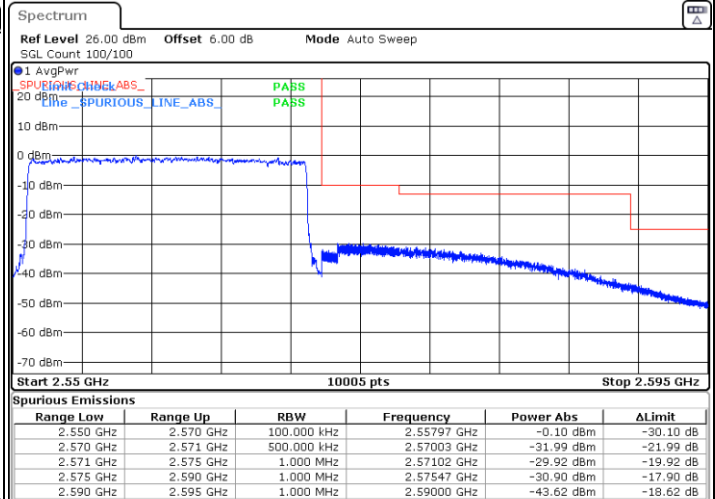
Date: 29.APR.2022 09:04:25

Lowest Band Edge / Full RB



Date: 29.APR.2022 08:54:42

Highest Band Edge / Full RB



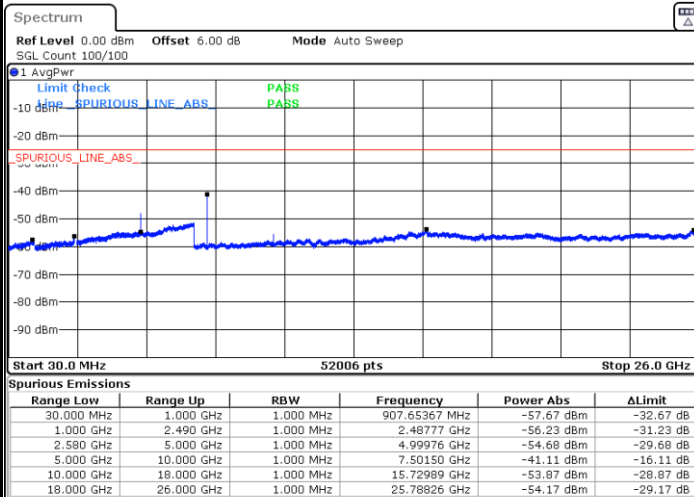
Date: 29.APR.2022 09:05:48



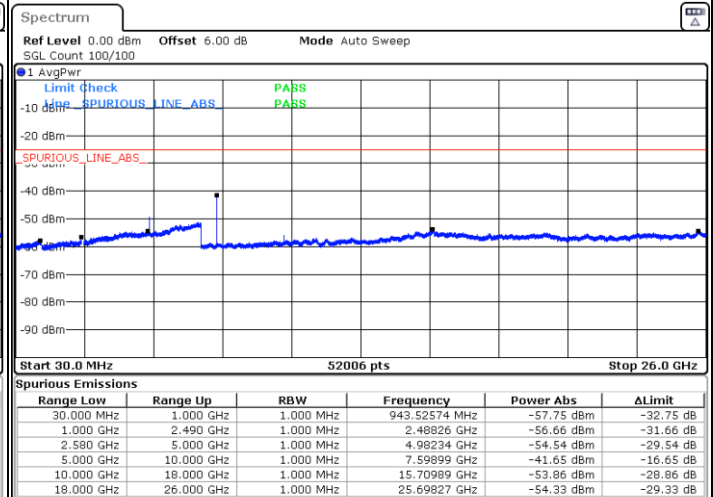
Conducted Spurious Emission

LTE Band 7 / 5MHz

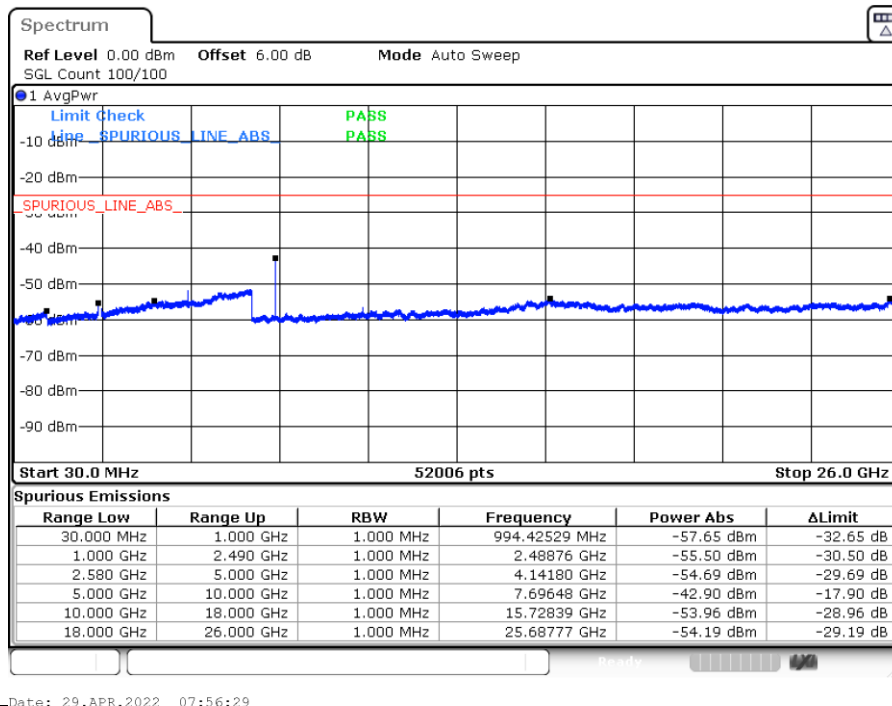
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

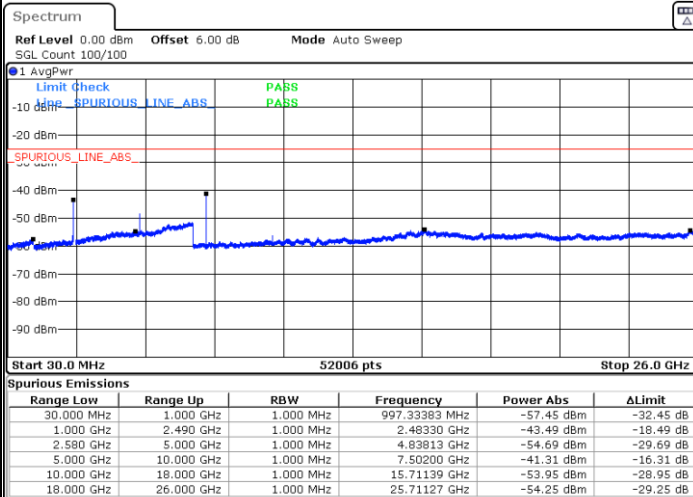




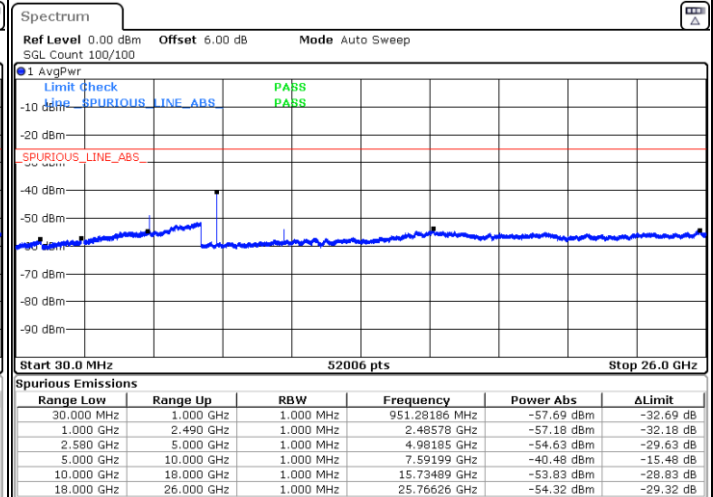
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

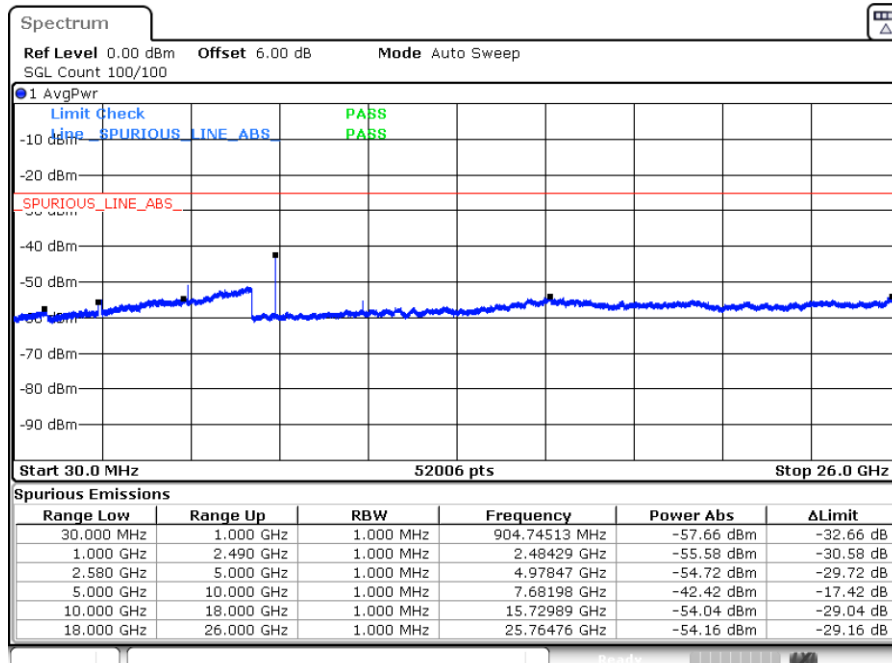


Date: 29.APR.2022 08:06:12



Date: 29.APR.2022 08:17:30

Highest Channel / QPSK

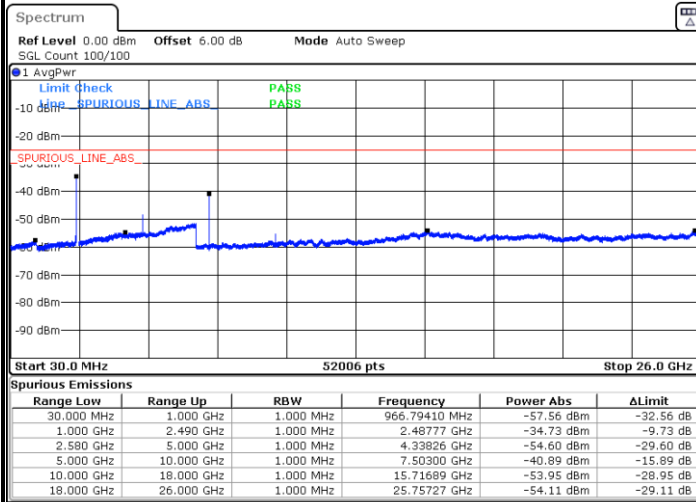


Date: 29.APR.2022 08:18:53



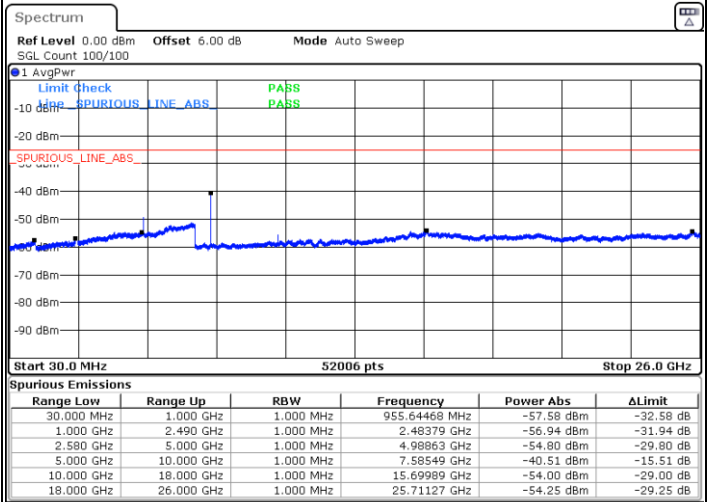
LTE Band 7 / 15MHz

Lowest Channel / QPSK



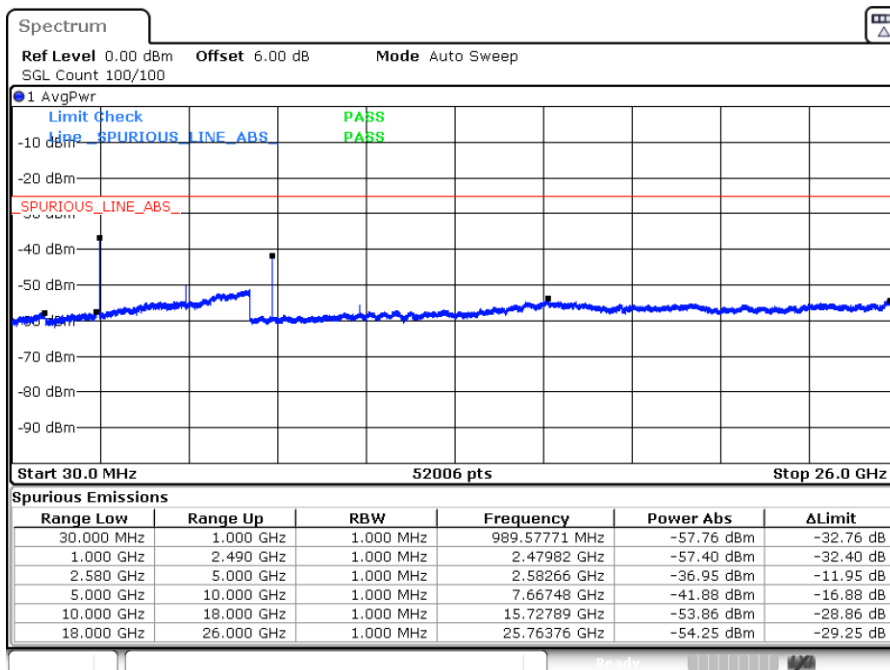
Date: 29.APR.2022 08:28:36

Middle Channel / QPSK



Date: 29.APR.2022 08:38:11

Highest Channel / QPSK

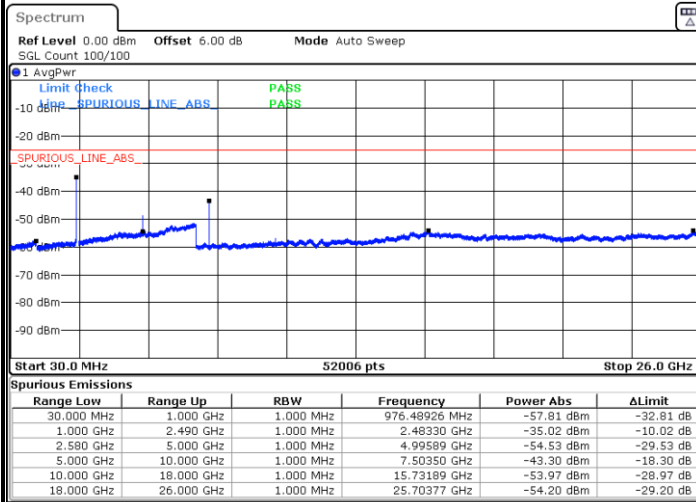


Date: 29.APR.2022 08:39:33



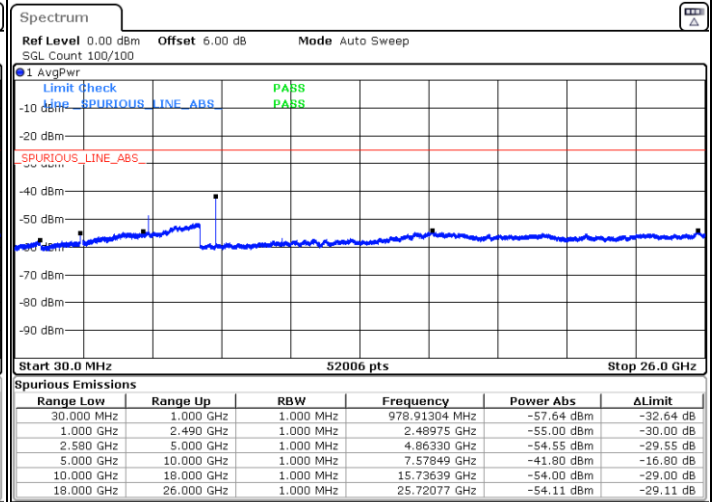
LTE Band 7 / 20MHz

Lowest Channel / QPSK



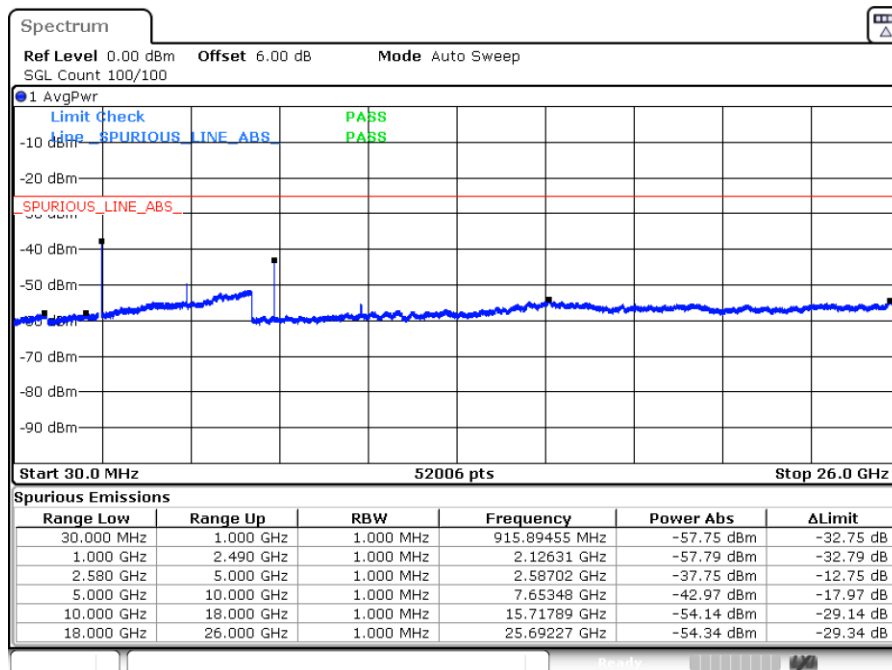
Date: 29.APR.2022 08:49:17

Middle Channel / QPSK



Date: 29.APR.2022 08:58:51

Highest Channel / QPSK



Date: 29.APR.2022 09:00:14

**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	0.0102	PASS
40	Normal Voltage	0.0107	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0098	
0	Normal Voltage	0.0073	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0077	
20	Maximum Voltage	0.0089	
20	Normal Voltage	0.0033	
20	Battery End Point	0.0036	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

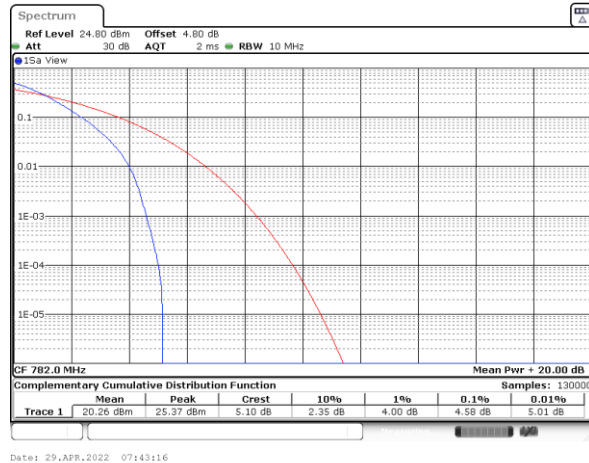
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.65	6.03	PASS

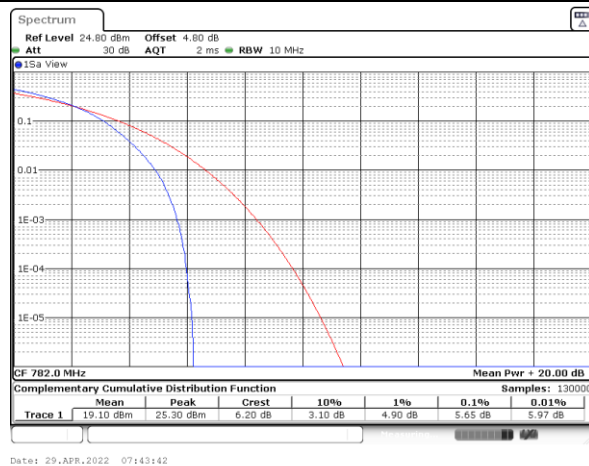


LTE Band 13 / 10MHz

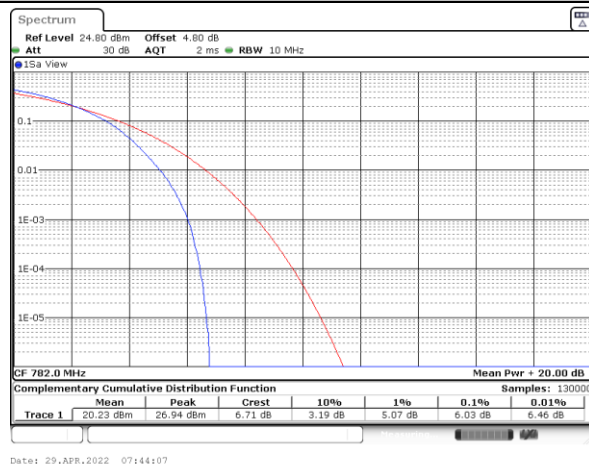
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM

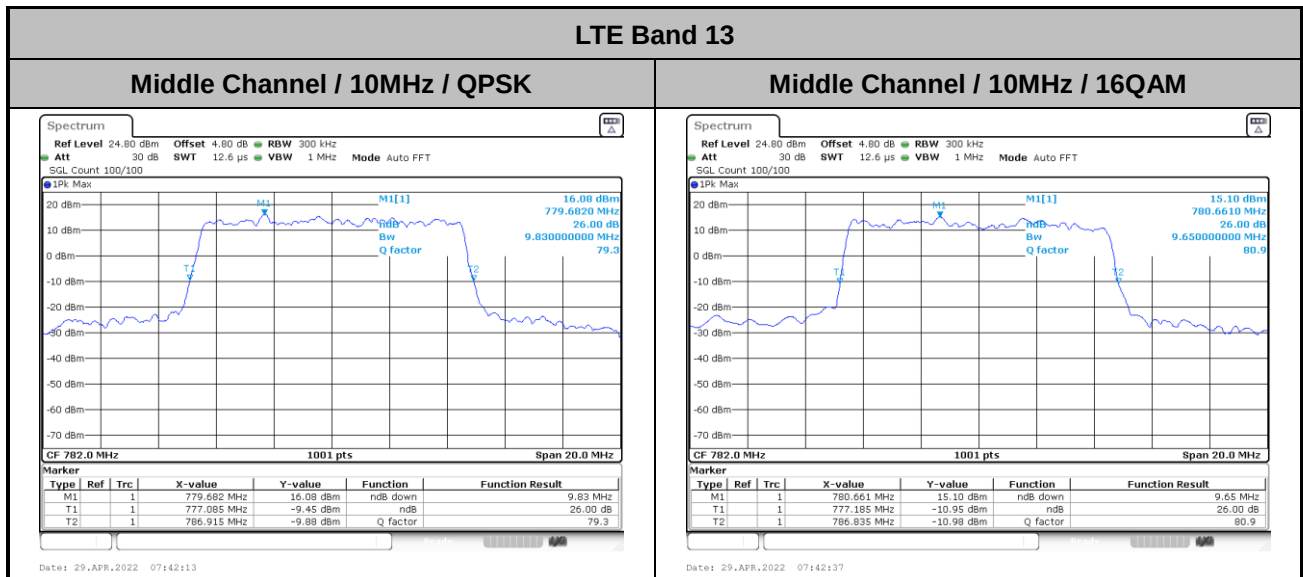


Middle Channel / Full RB/ 64QAM



**26dB Bandwidth**

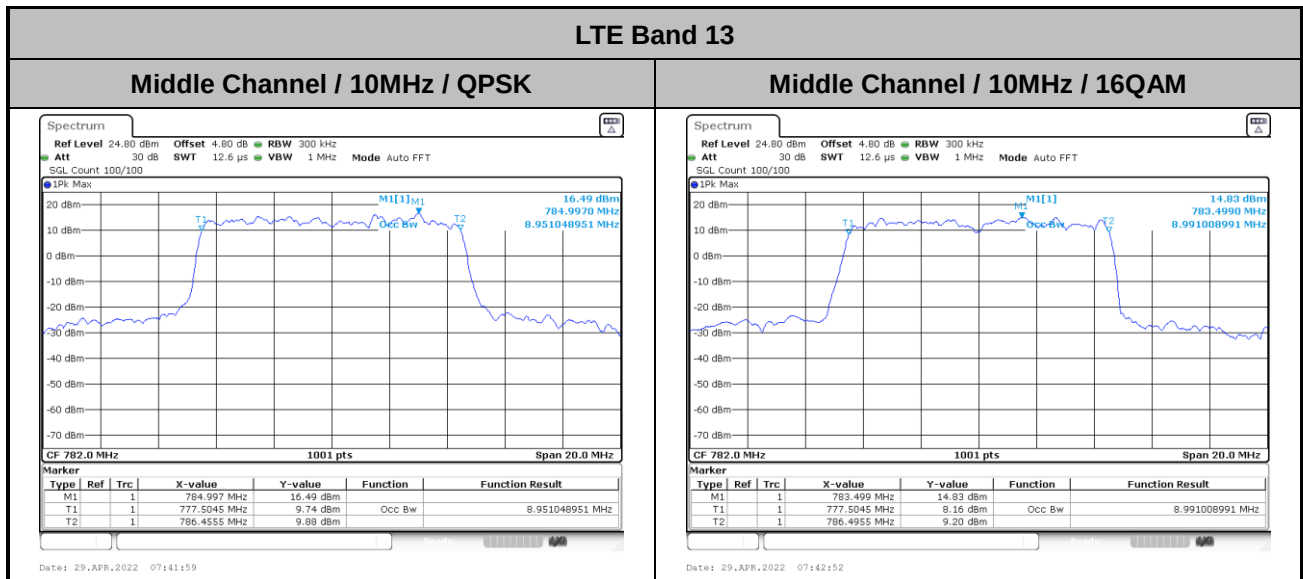
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.65

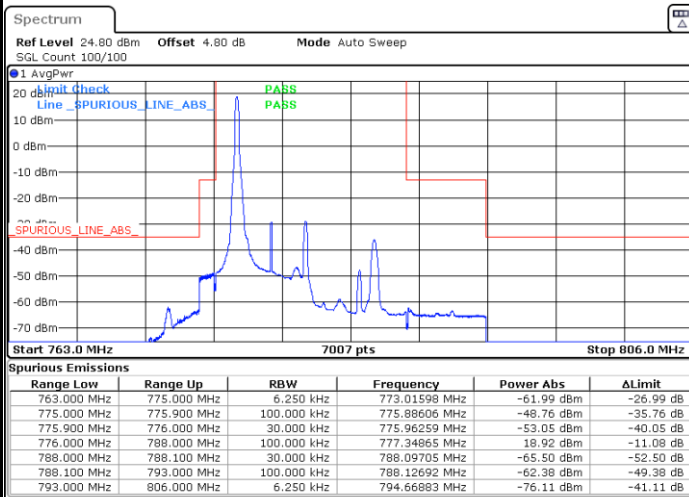
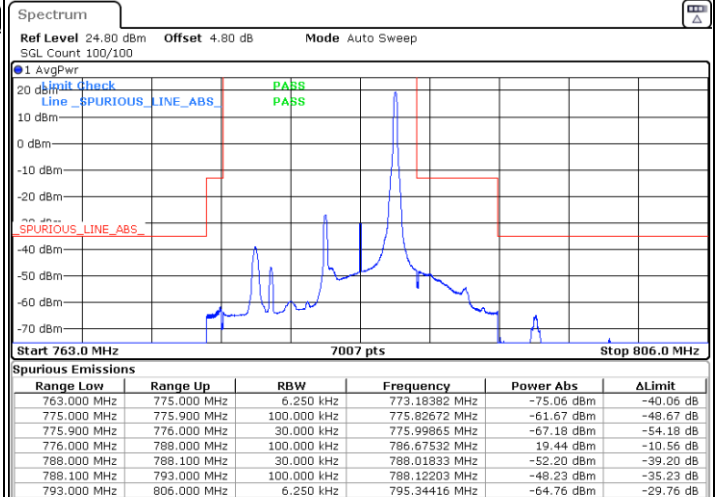
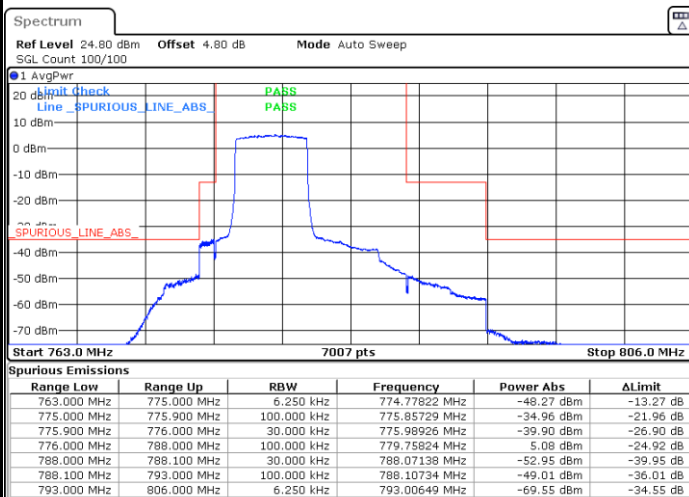
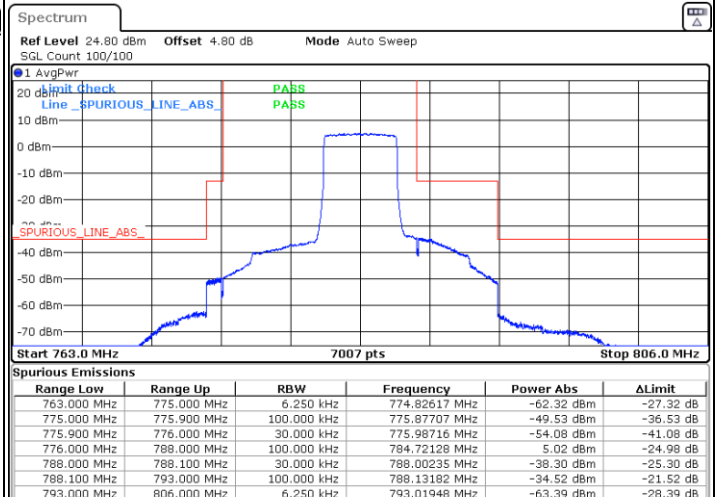




Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.95	8.99

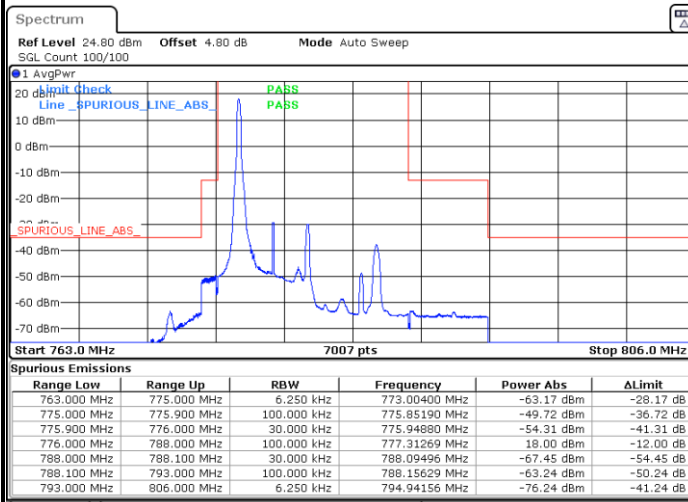


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



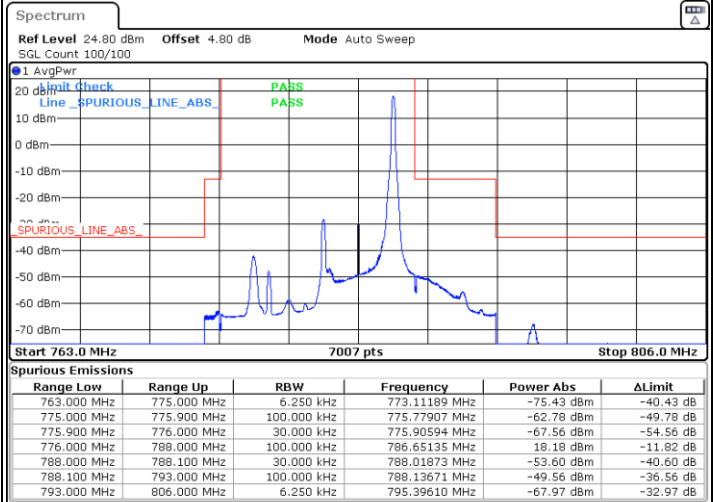
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



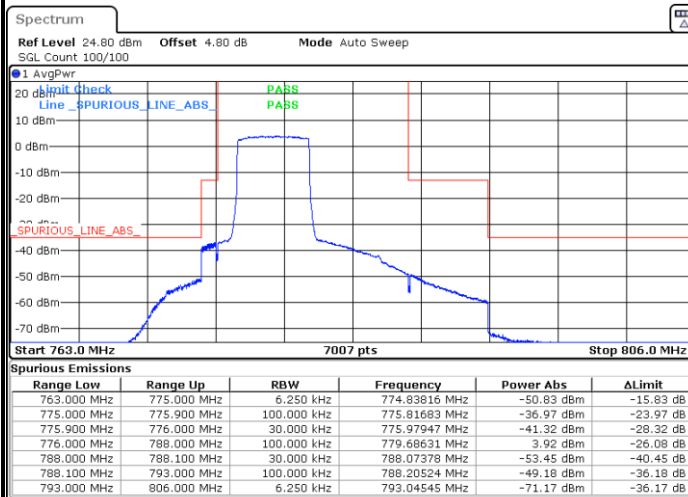
Date: 29.APR.2022 07:01:49

Highest Band Edge / 1 RB



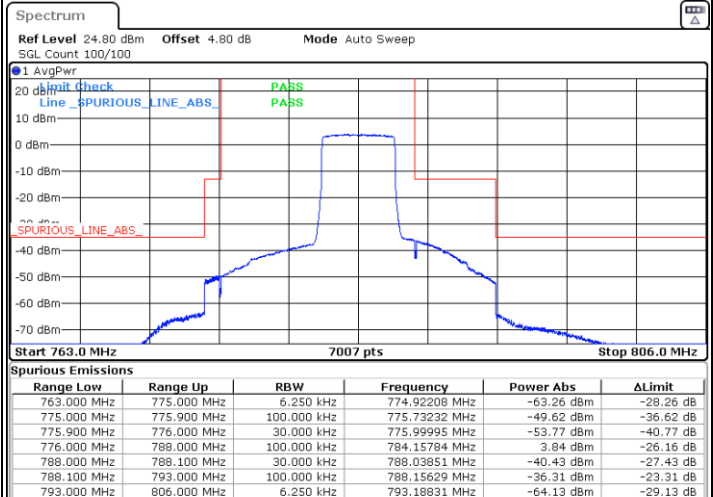
Date: 29.APR.2022 07:15:56

Lowest Band Edge / Full RB



Date: 29.APR.2022 07:07:28

Highest Band Edge / Full RB

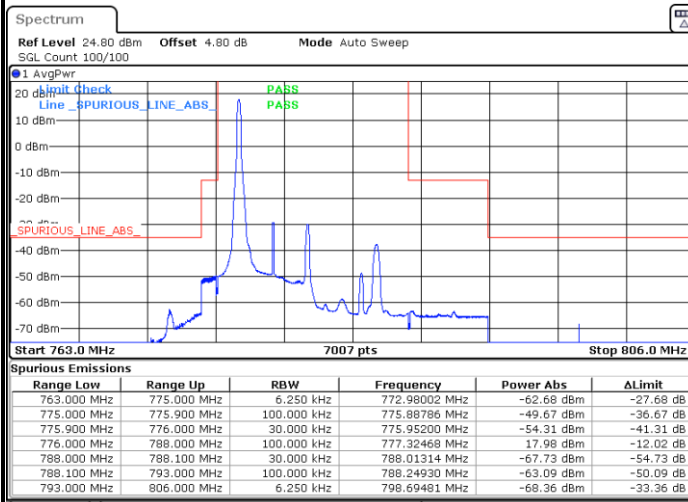


Date: 29.APR.2022 07:21:35

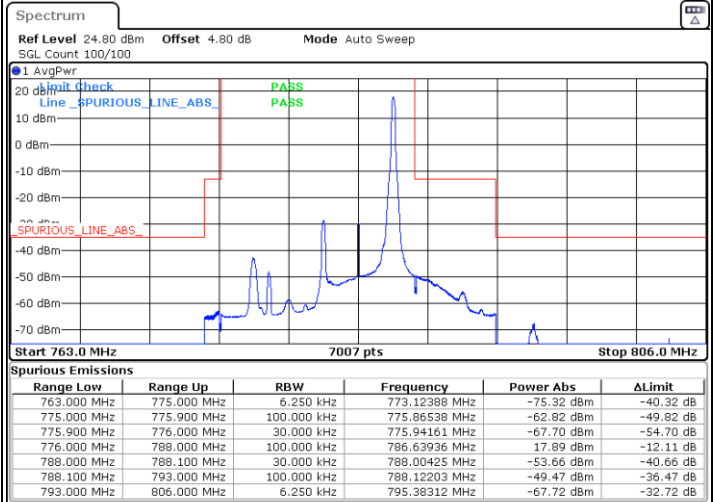


LTE Band 13 / 5MHz / 64QAM

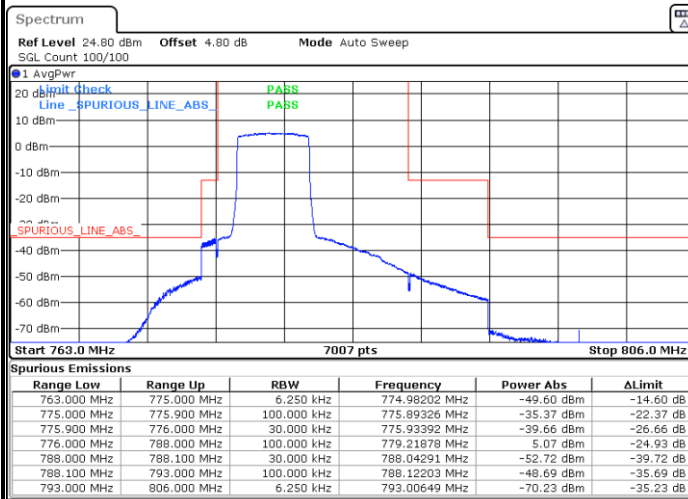
Lowest Band Edge / 1RB



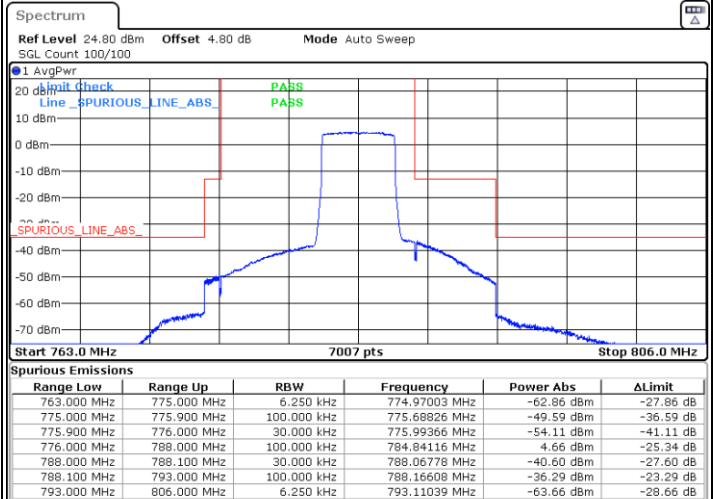
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



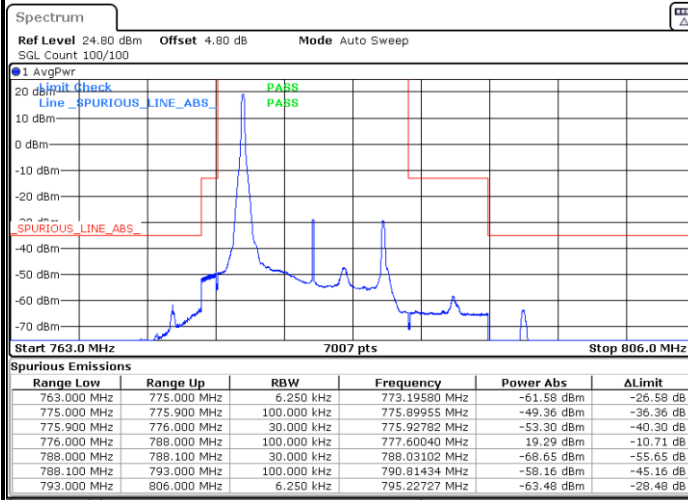
Highest Band Edge / Full RB





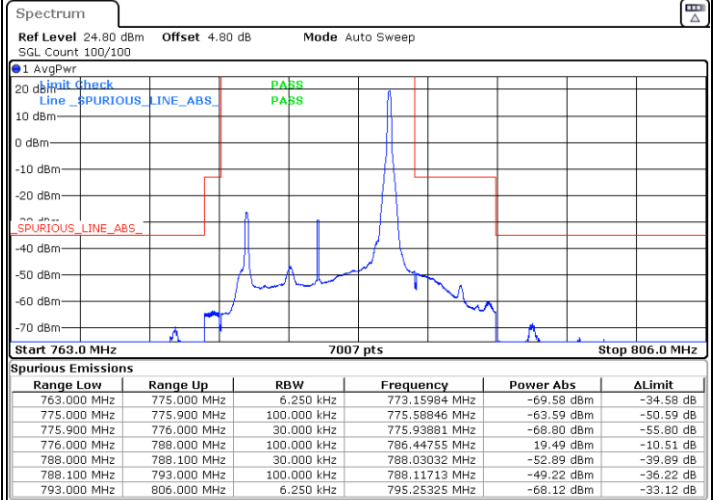
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



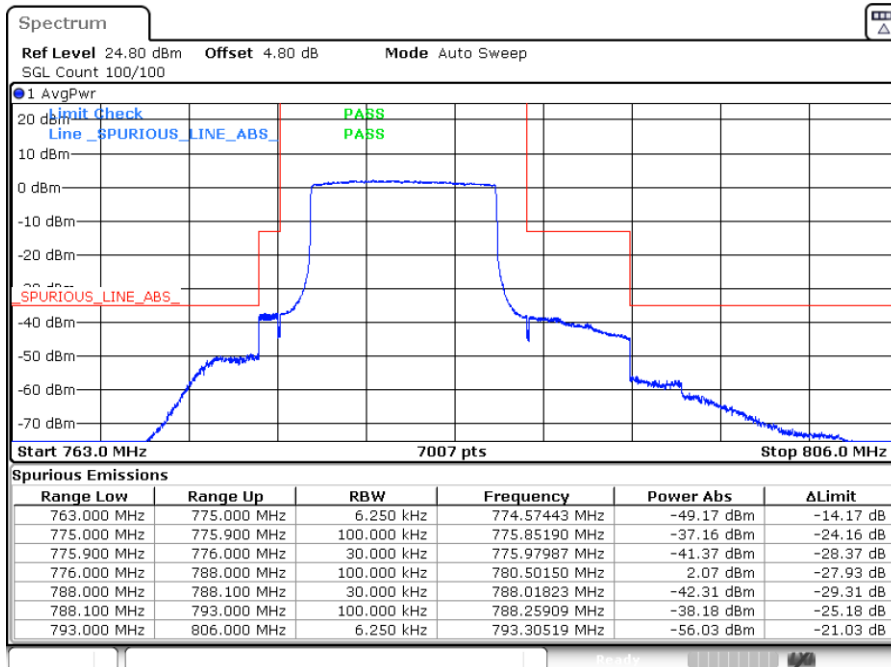
Date: 29.APR.2022 07:26:36

middle Band Edge / 1 RB



Date: 29.APR.2022 07:37:50

Middle Band Edge / Full RB



Date: 29.APR.2022 07:35:58