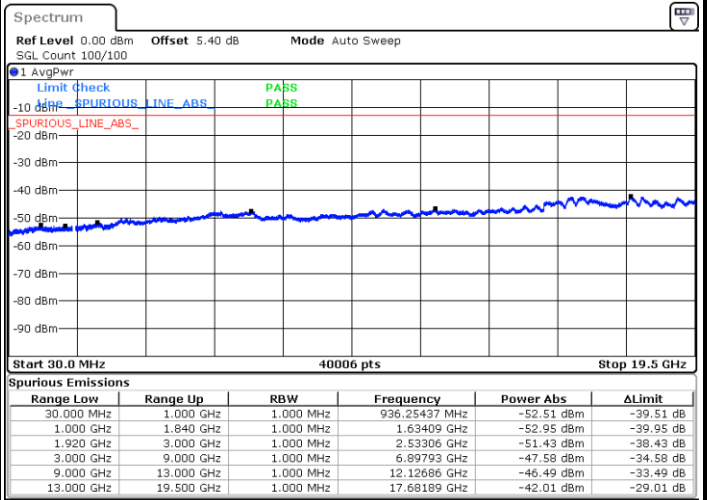
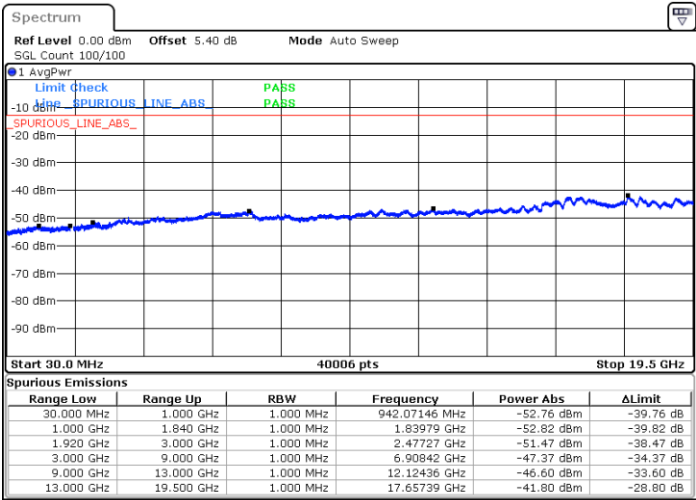




LTE Band 2 / 10MHz

Lowest Channel / QPSK

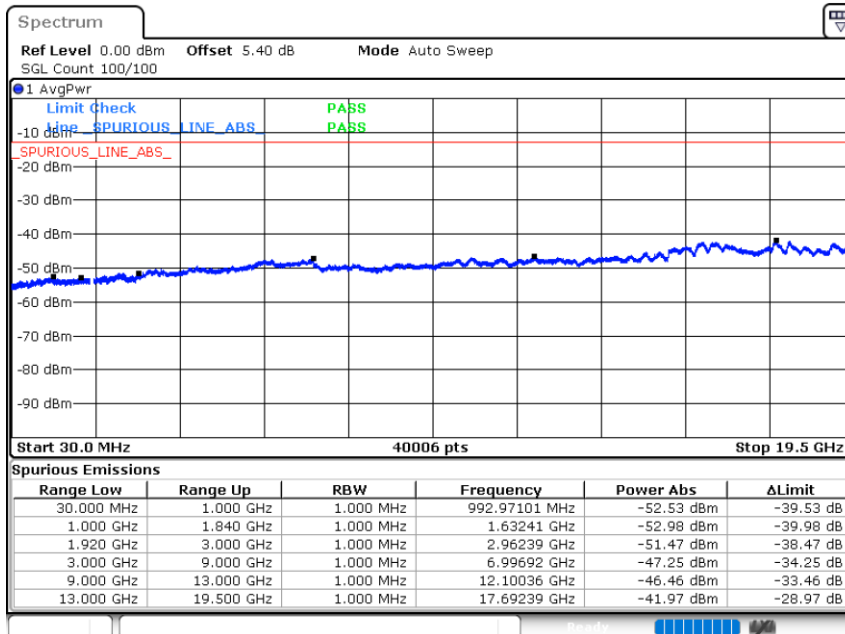
Middle Channel / QPSK



Date: 29.NOV.2021 09:32:53

Date: 29.NOV.2021 09:43:59

Highest Channel / QPSK



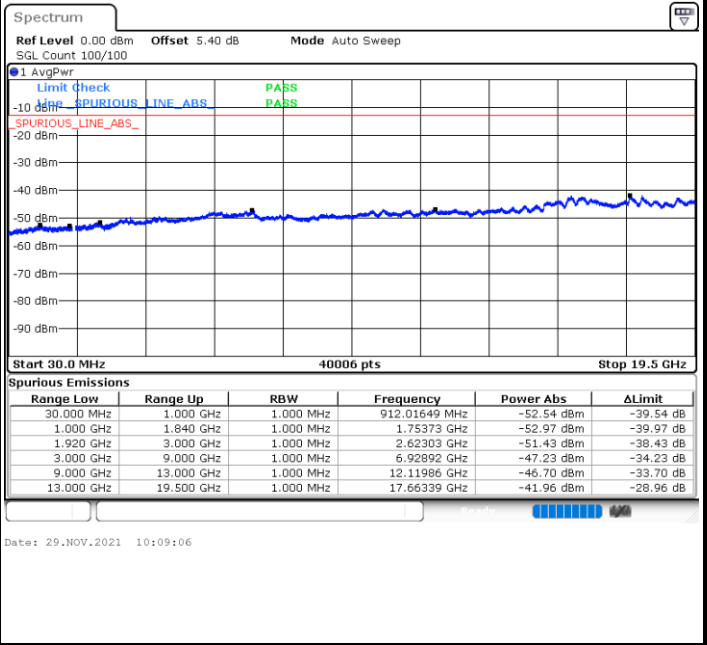
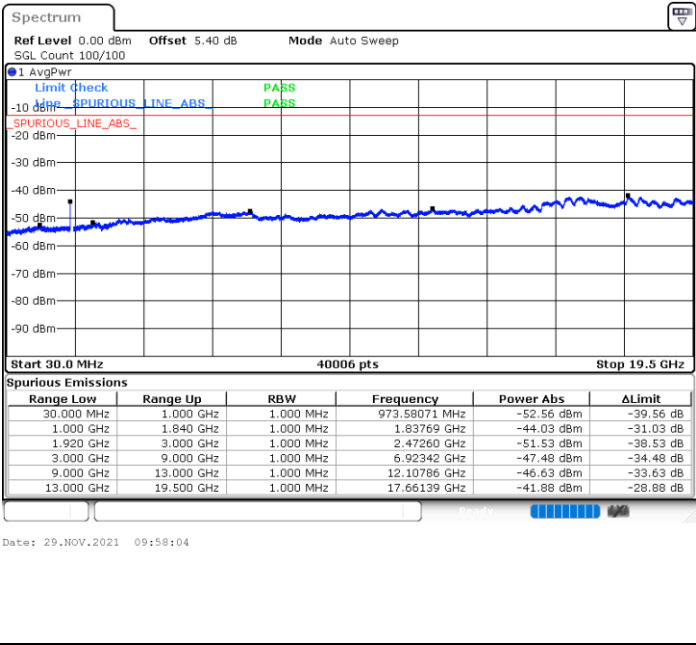
Date: 29.NOV.2021 09:46:52



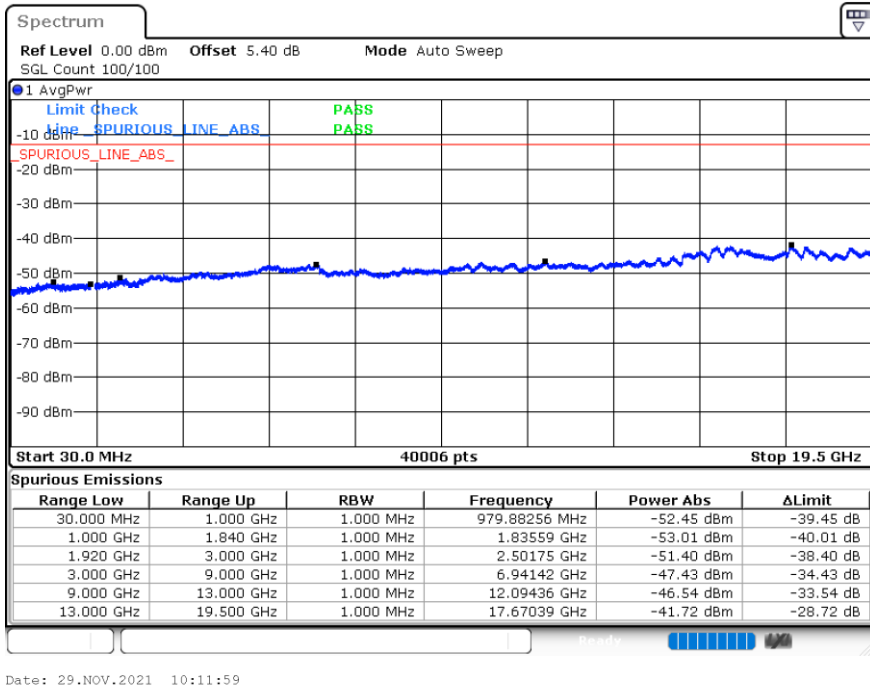
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

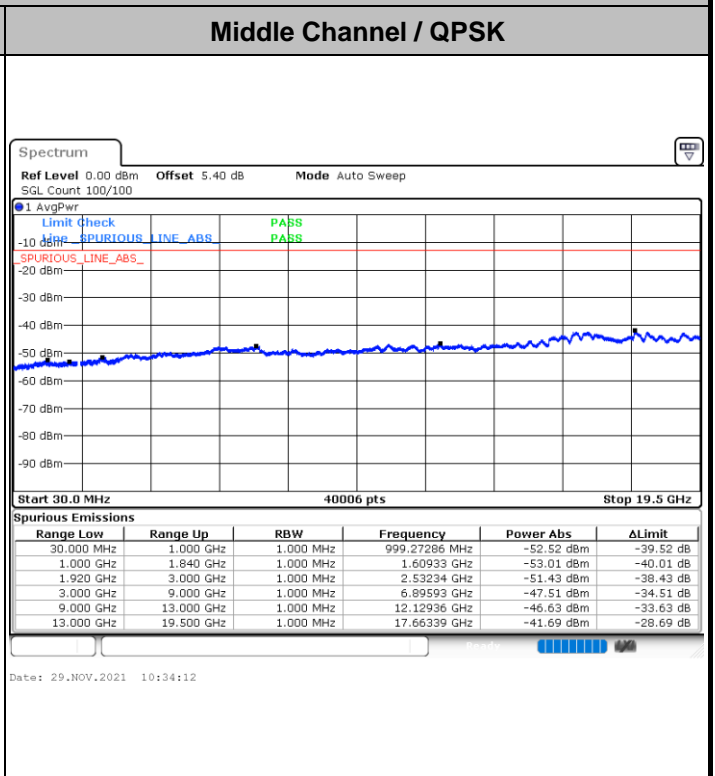
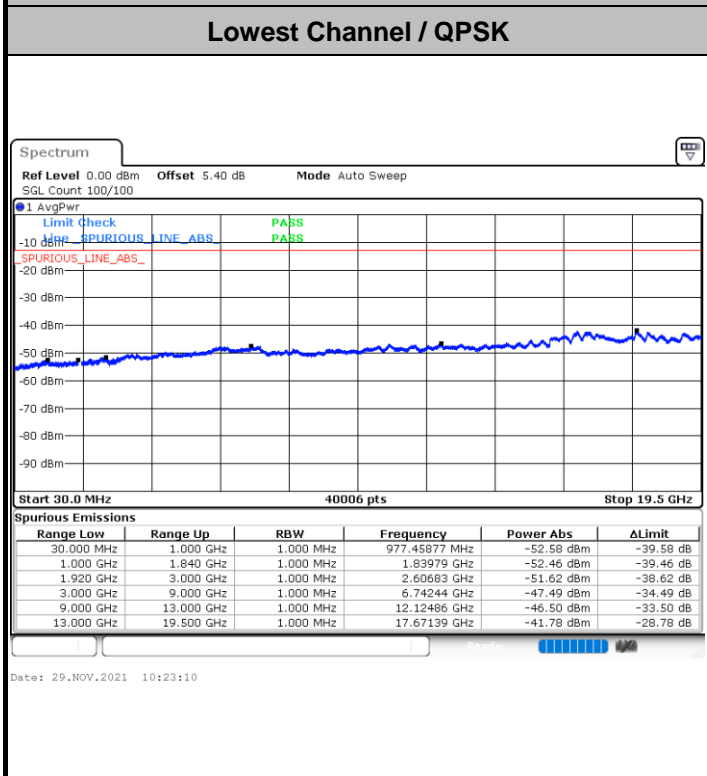


Highest Channel / QPSK

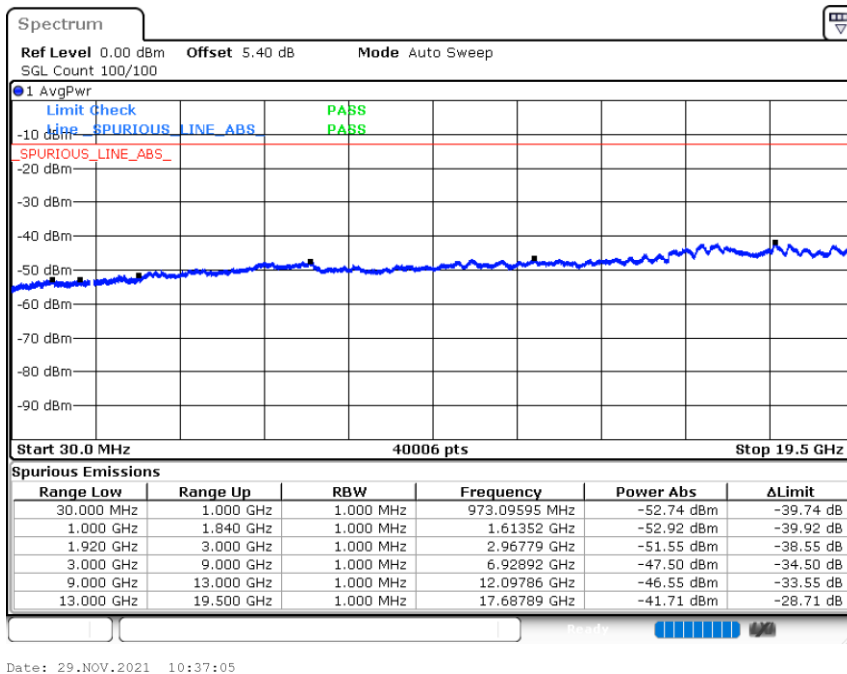




LTE Band 2 / 20MHz



Highest Channel / QPSK





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	0.0007	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

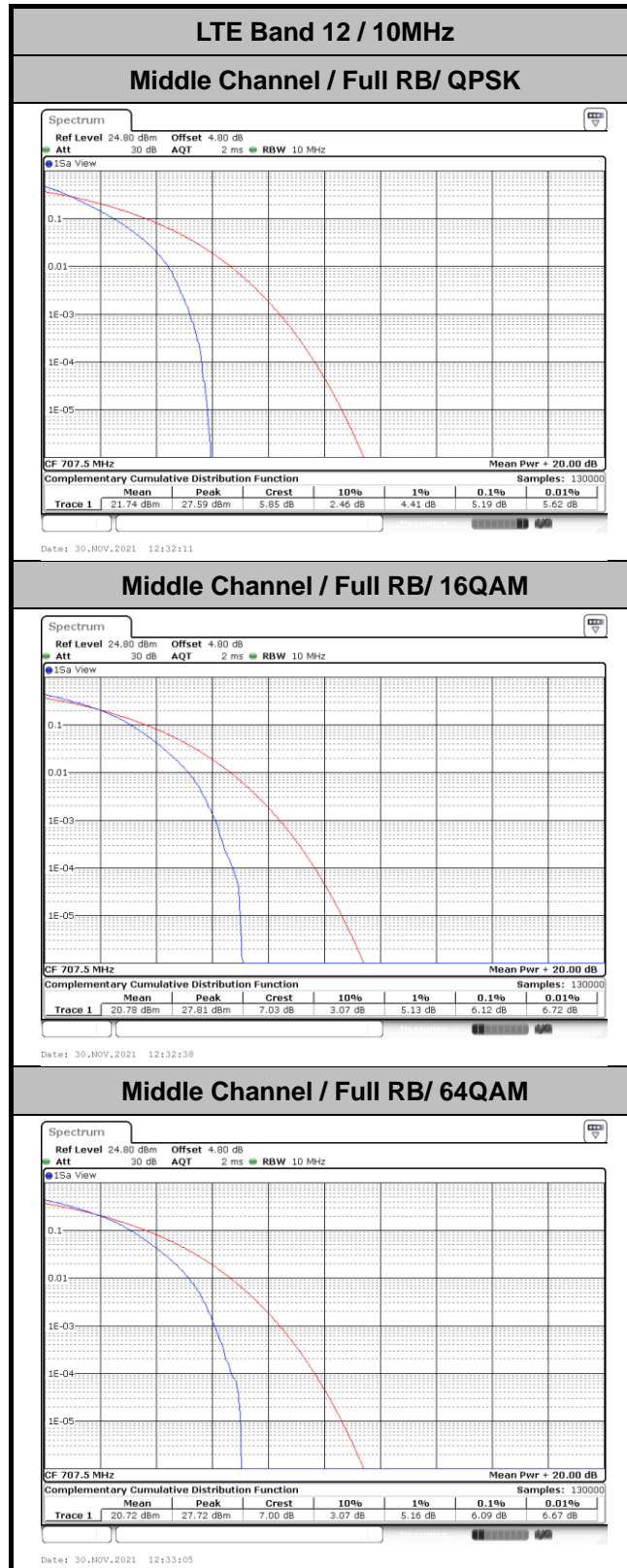
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

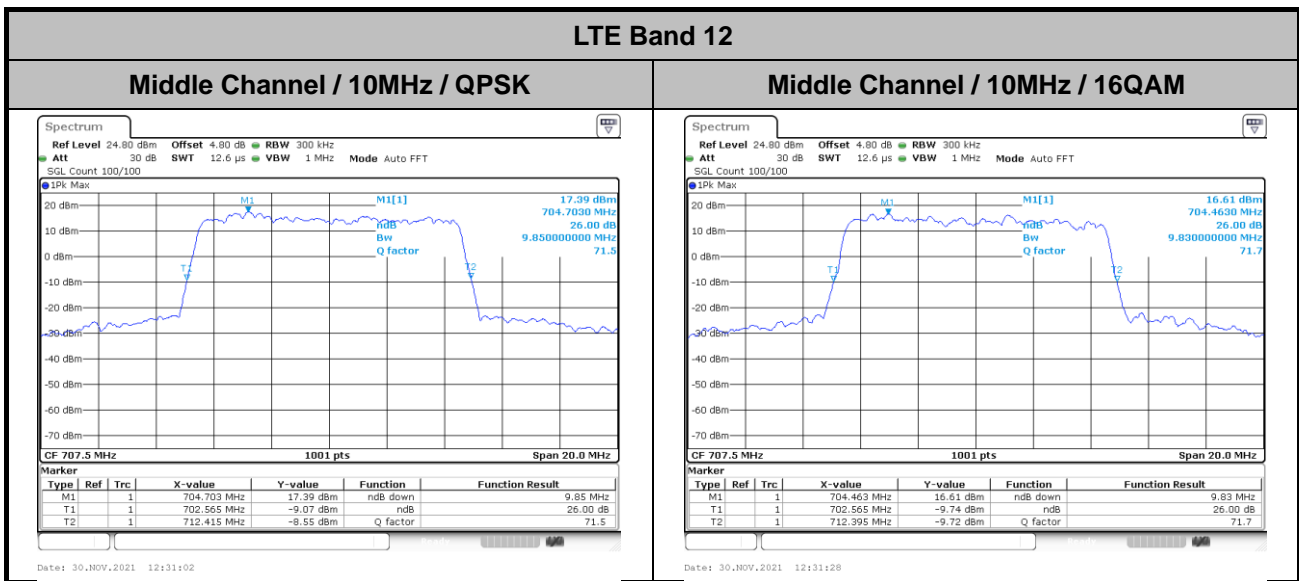
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.19	6.12	6.09	PASS





26dB Bandwidth

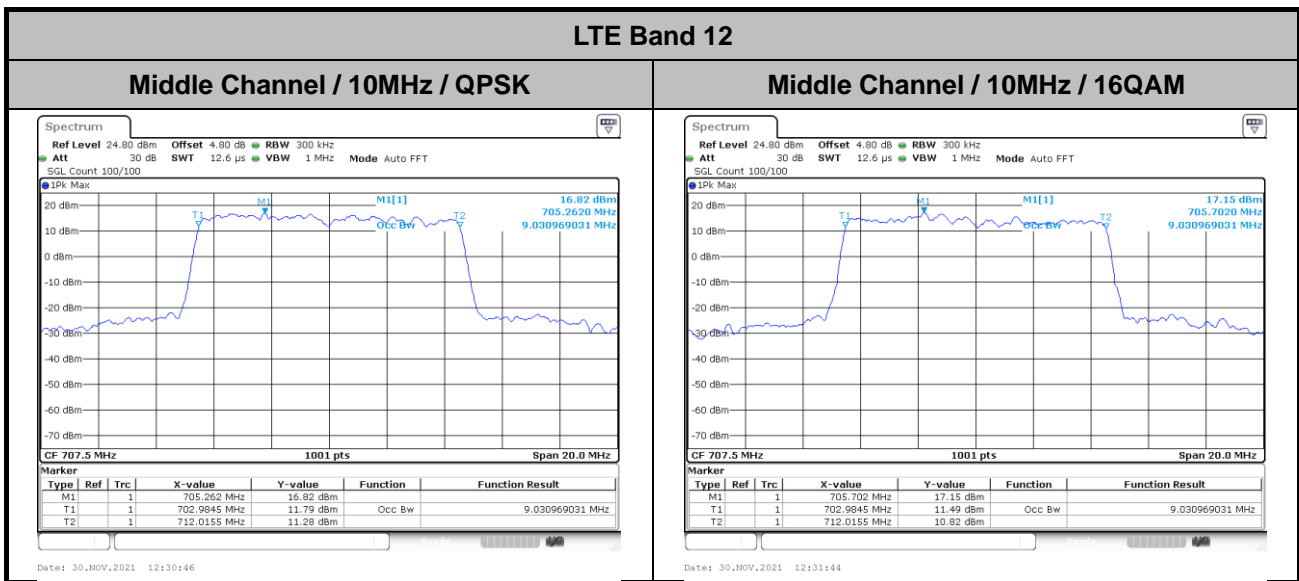
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.85	9.83





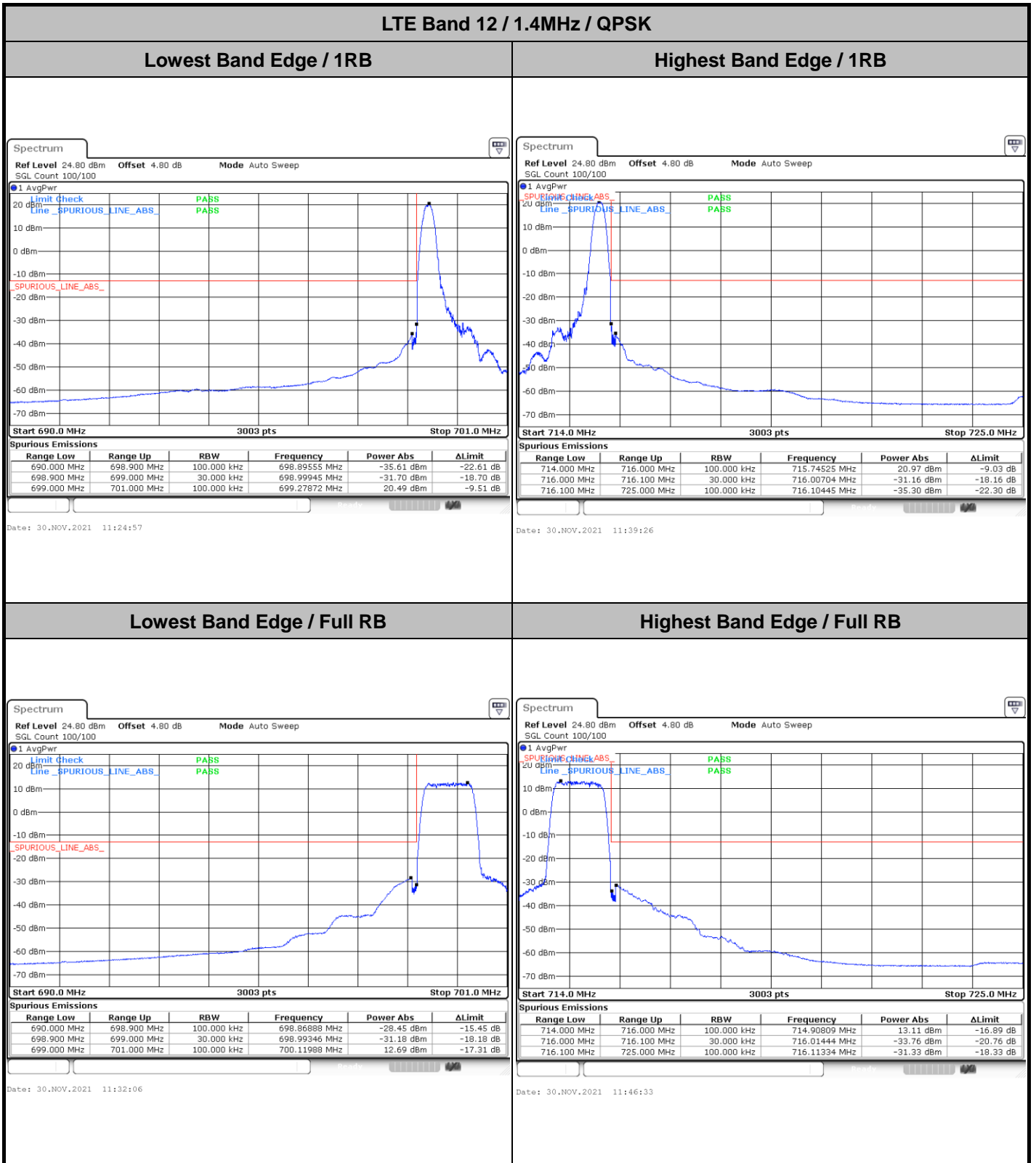
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.03





Conducted Band Edge

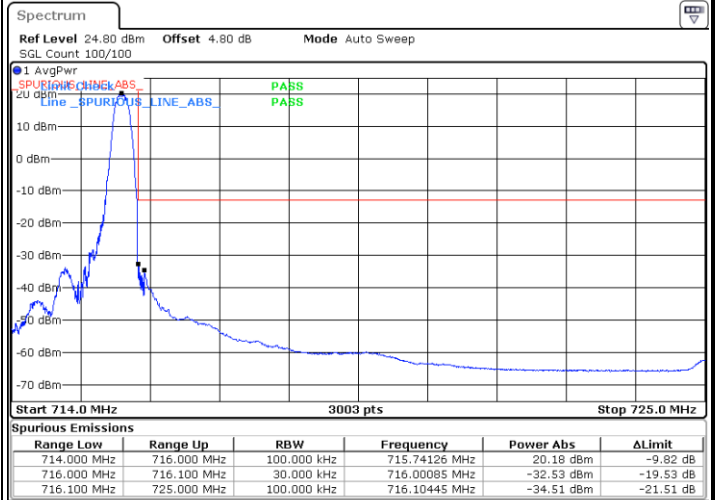
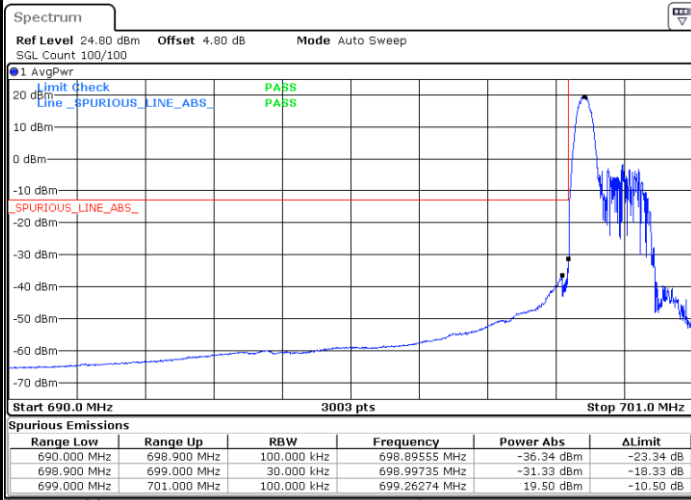




LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

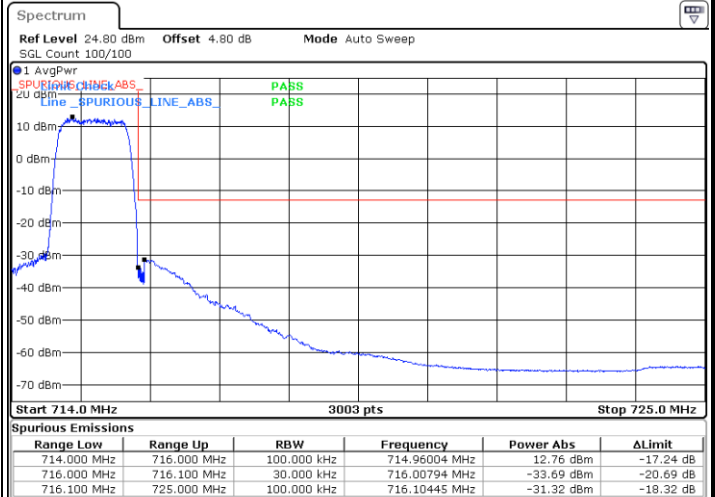
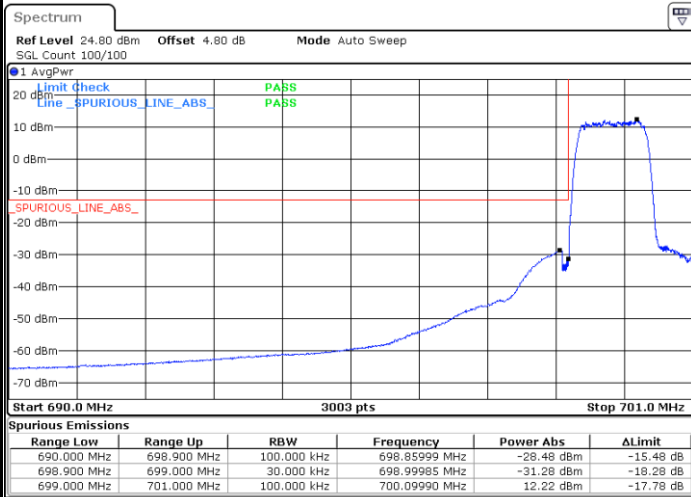


Date: 30.NOV.2021 11:26:23

Date: 30.NOV.2021 11:40:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



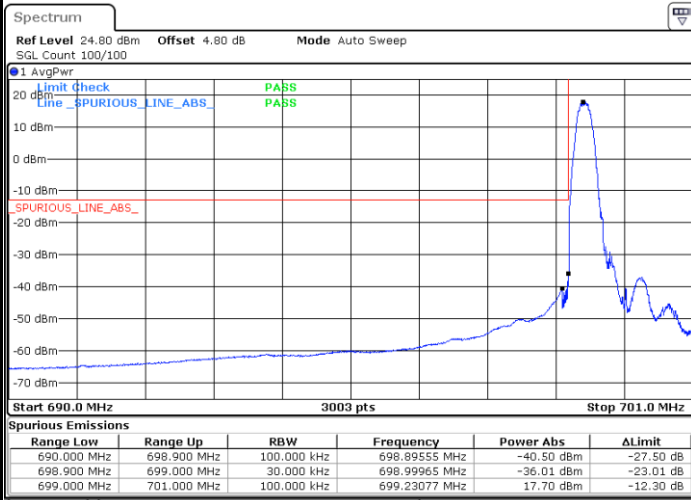
Date: 30.NOV.2021 11:30:40

Date: 30.NOV.2021 11:45:08



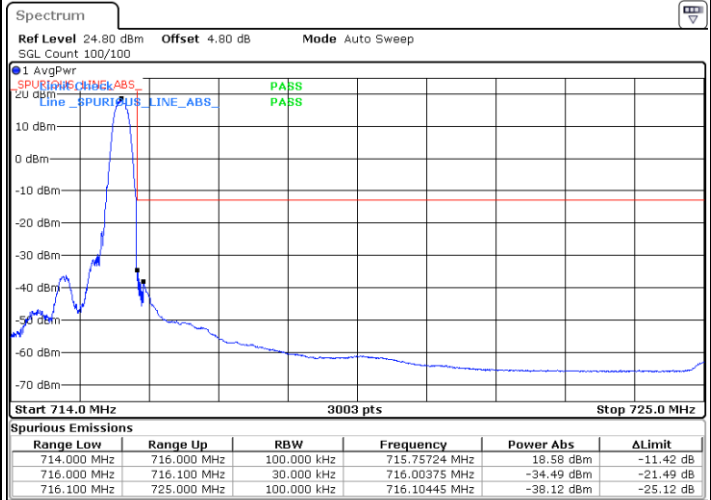
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



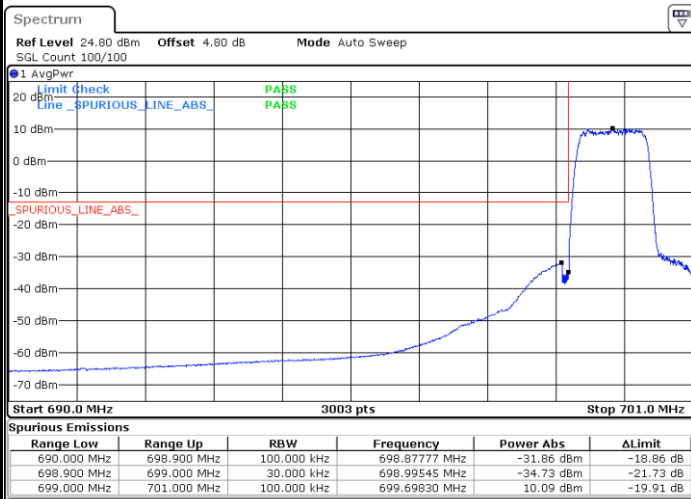
Date: 30.NOV.2021 11:27:49

Highest Band Edge / 1 RB



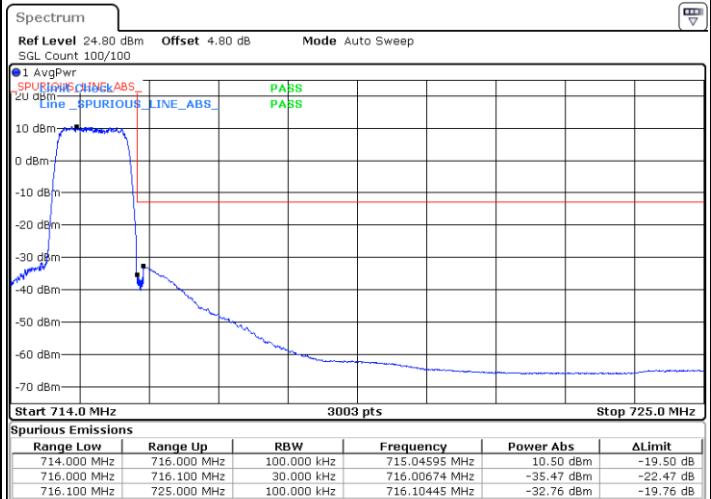
Date: 30.NOV.2021 11:42:17

Lowest Band Edge / Full RB



Date: 30.NOV.2021 11:29:15

Highest Band Edge / Full RB

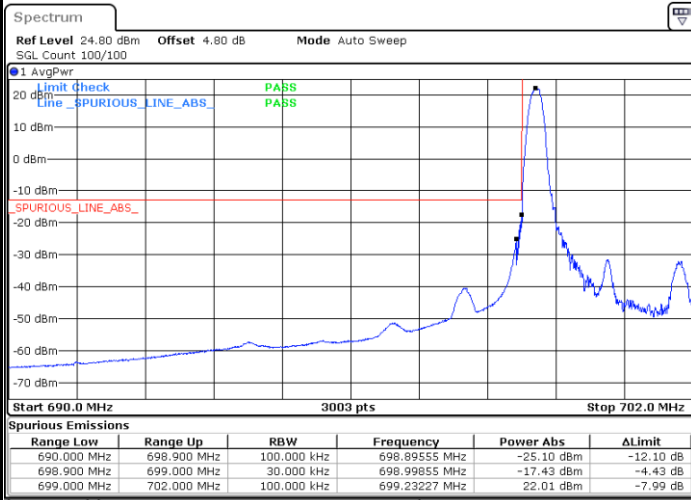


Date: 30.NOV.2021 11:43:43



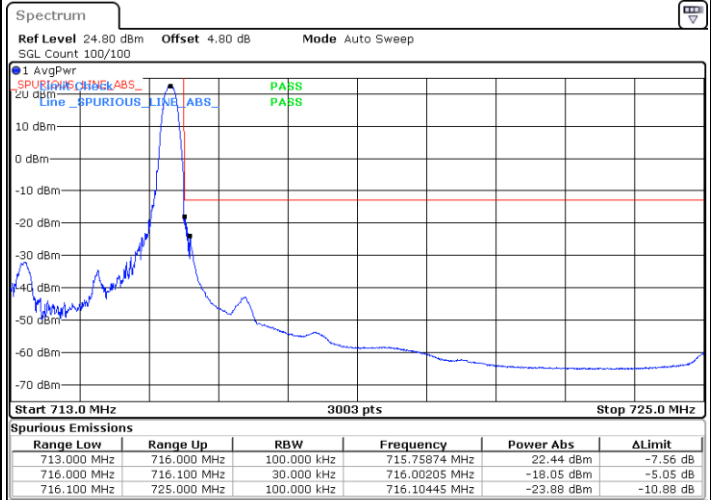
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



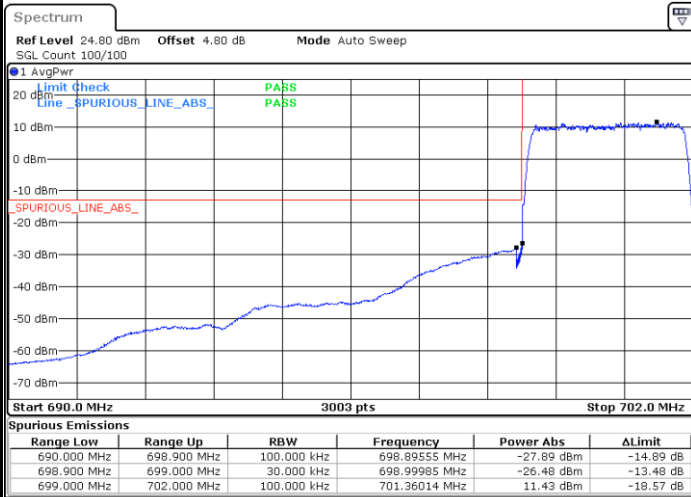
Date: 29.NOV.2021 21:40:45

Highest Band Edge / 1 RB



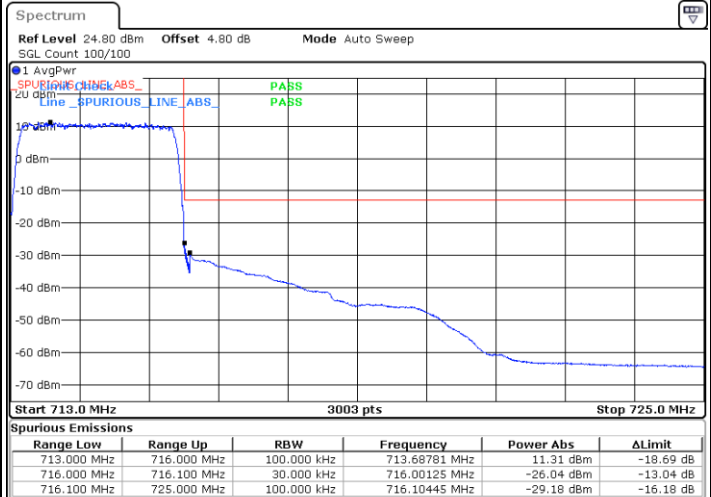
Date: 29.NOV.2021 21:46:18

Lowest Band Edge / Full RB



Date: 29.NOV.2021 21:36:36

Highest Band Edge / Full RB

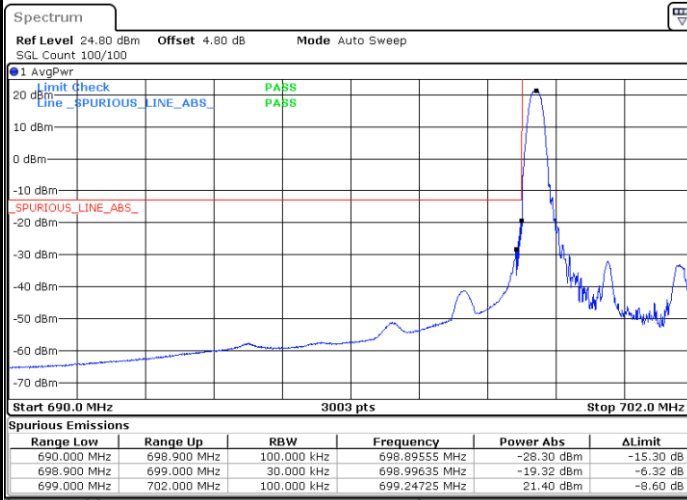


Date: 29.NOV.2021 21:42:08



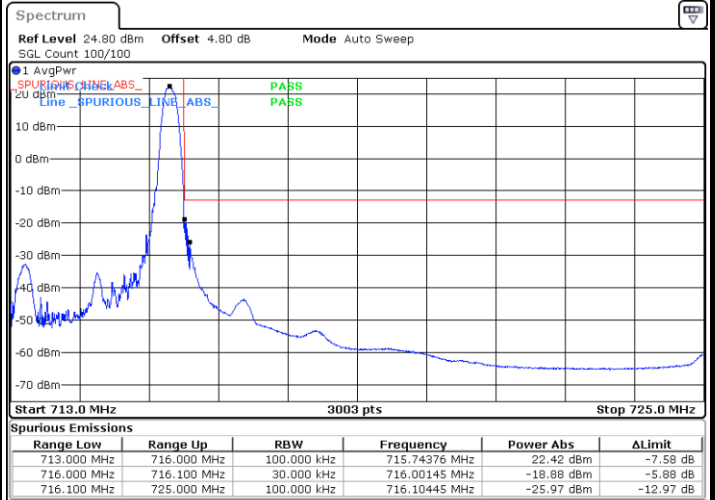
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



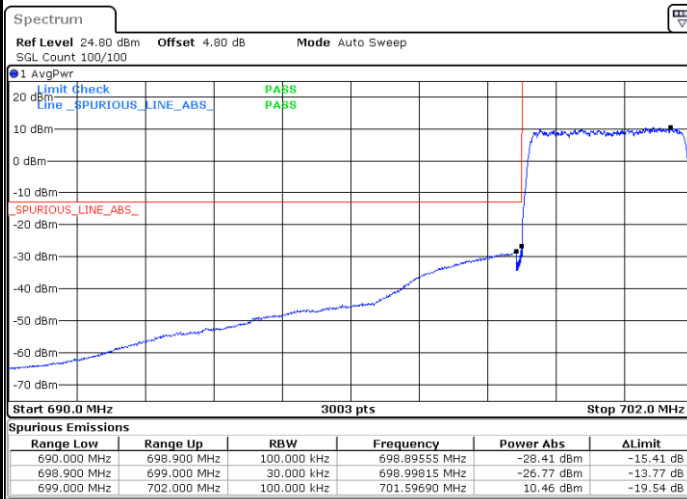
Date: 29.NOV.2021 21:39:22

Highest Band Edge / 1 RB



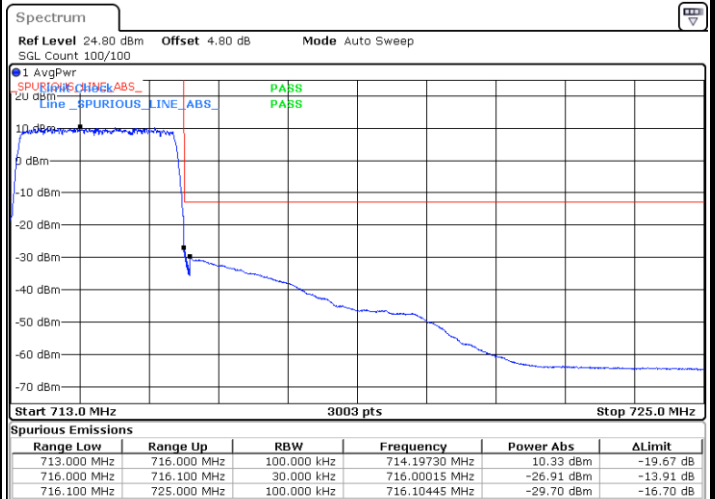
Date: 29.NOV.2021 21:44:54

Lowest Band Edge / Full RB



Date: 29.NOV.2021 21:37:59

Highest Band Edge / Full RB

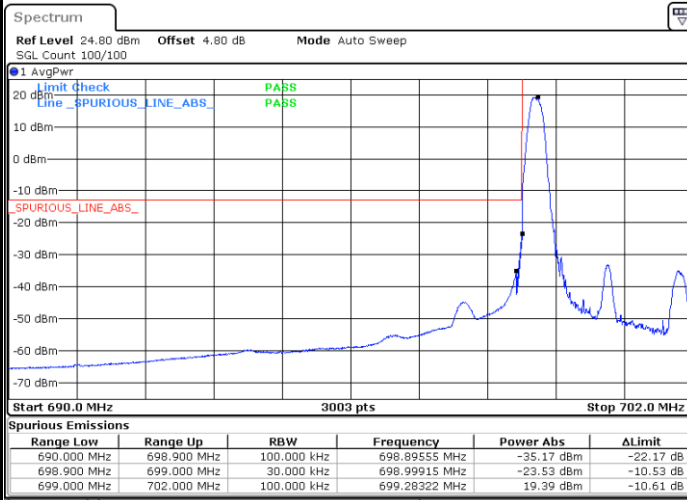


Date: 29.NOV.2021 21:43:31



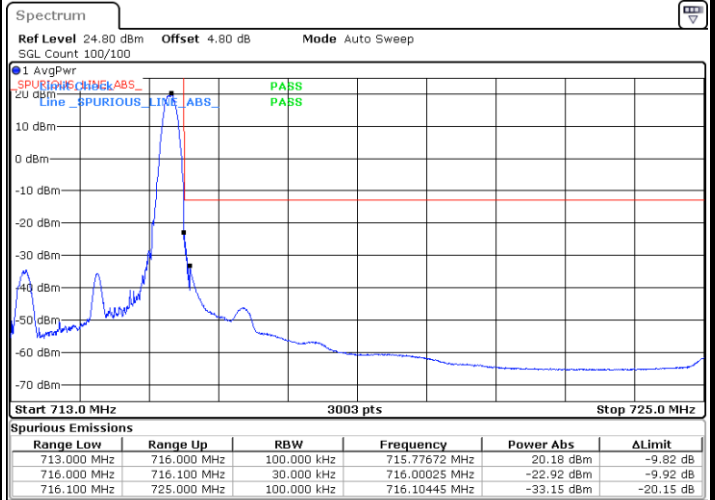
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



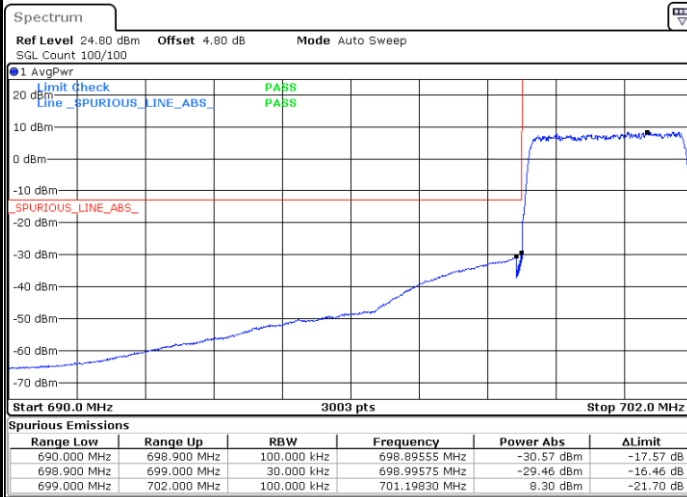
Date: 29.NOV.2021 22:44:35

Highest Band Edge / 1 RB



Date: 29.NOV.2021 22:47:22

Lowest Band Edge / Full RB



Date: 29.NOV.2021 22:43:12

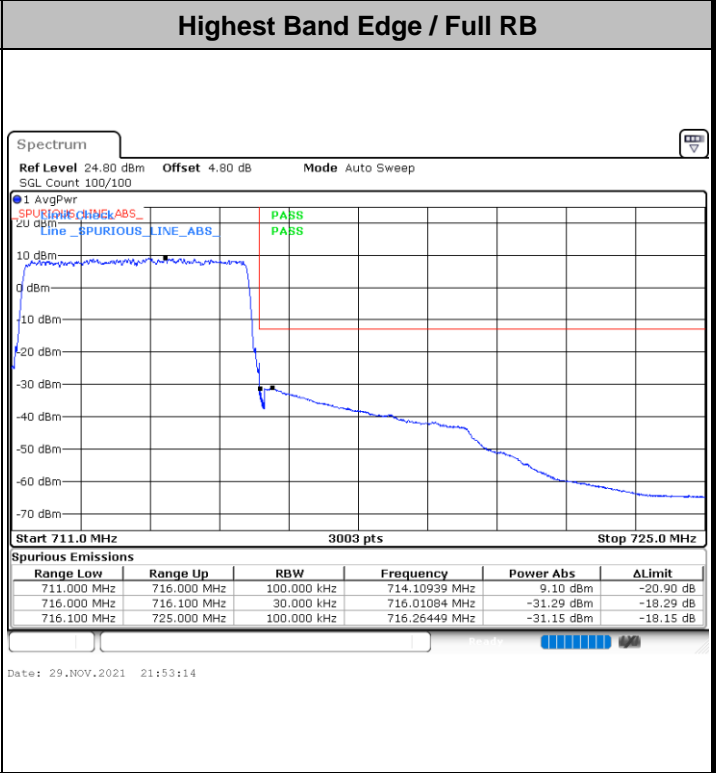
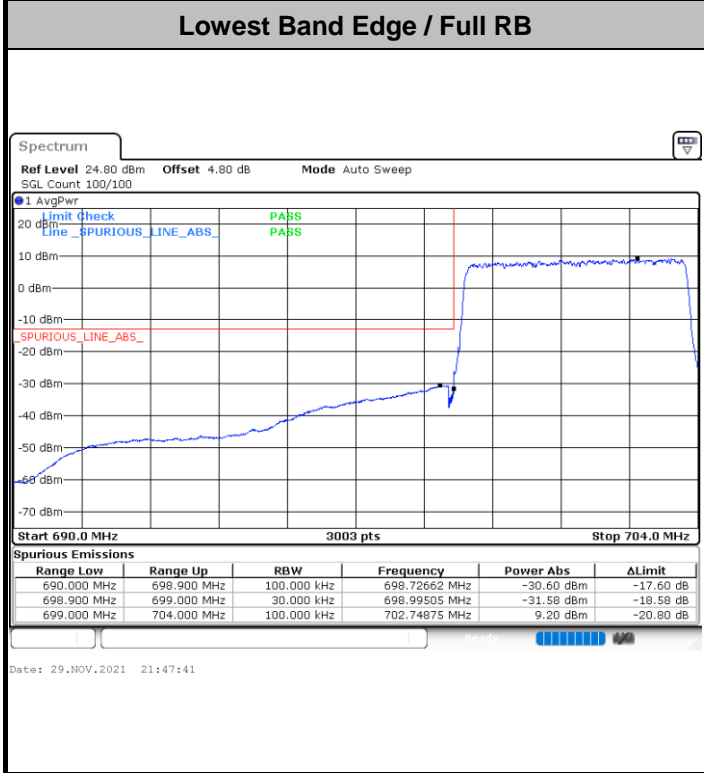
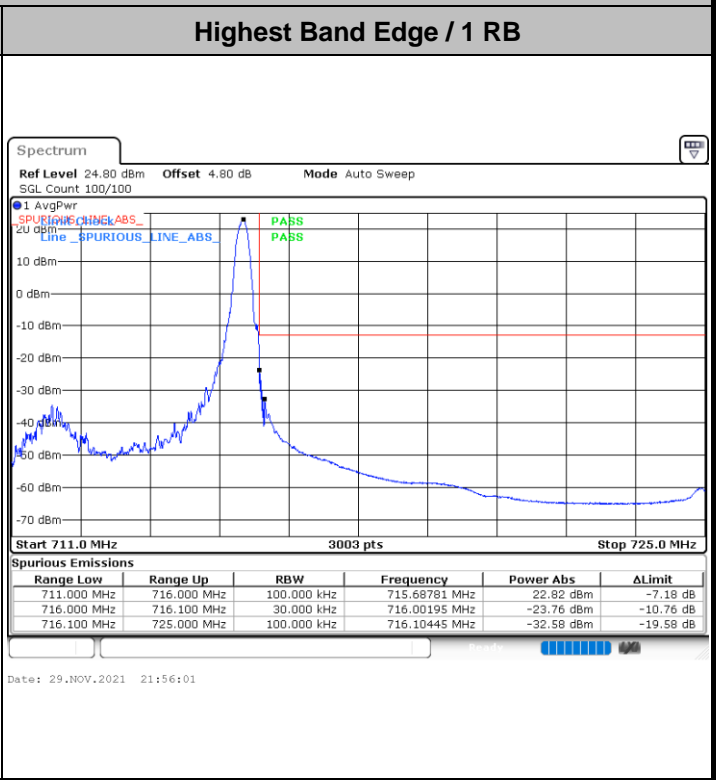
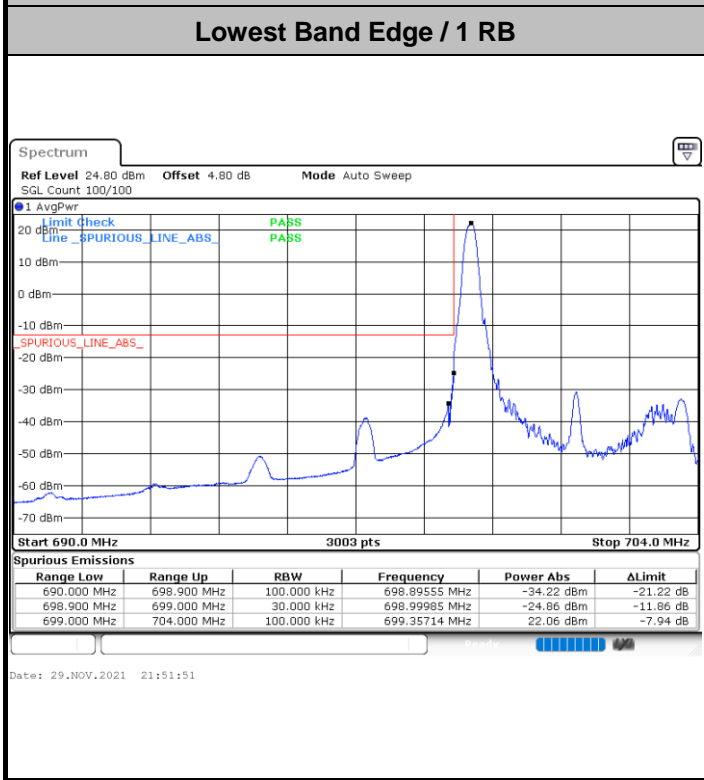
Highest Band Edge / Full RB



Date: 29.NOV.2021 22:45:58



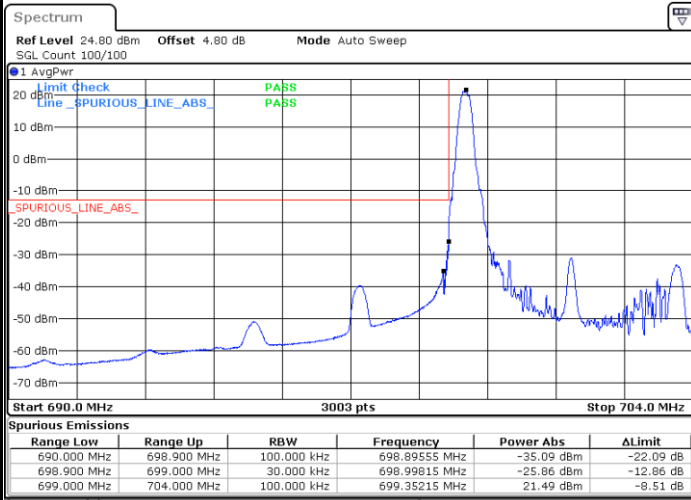
LTE Band 12 / 5MHz / QPSK





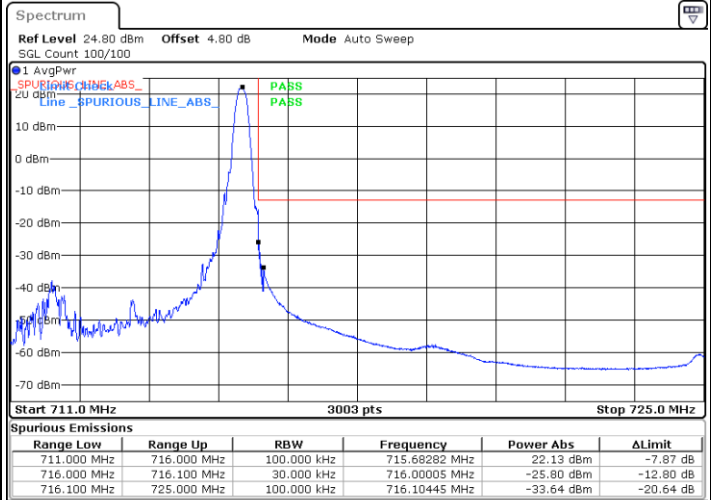
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



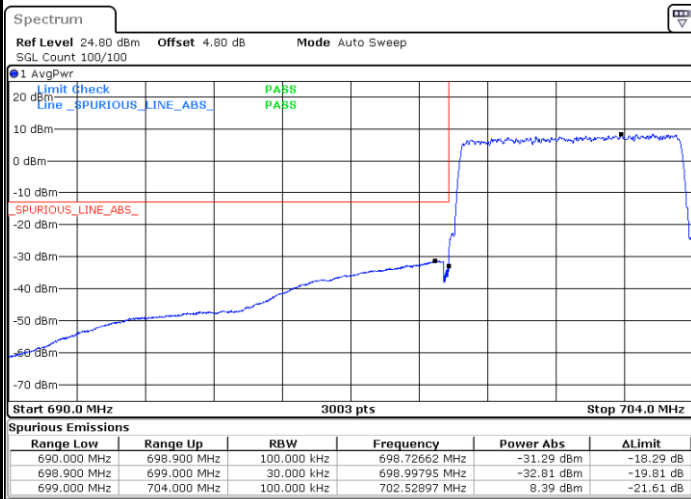
Date: 29.NOV.2021 21:50:27

Highest Band Edge / 1 RB



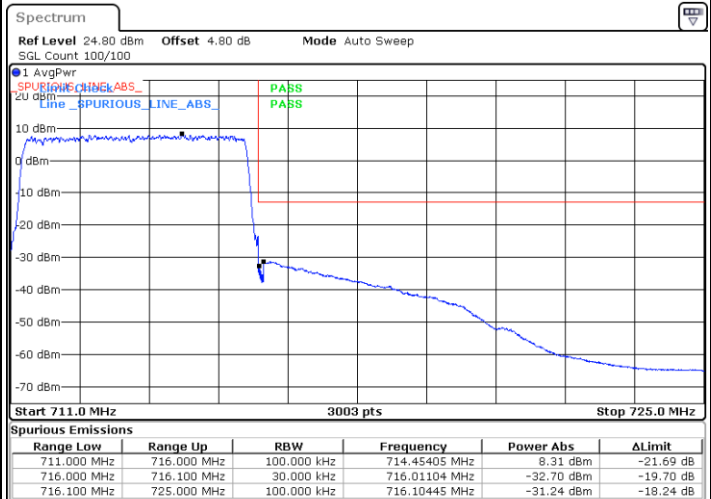
Date: 29.NOV.2021 21:57:24

Lowest Band Edge / Full RB



Date: 29.NOV.2021 21:49:04

Highest Band Edge / Full RB

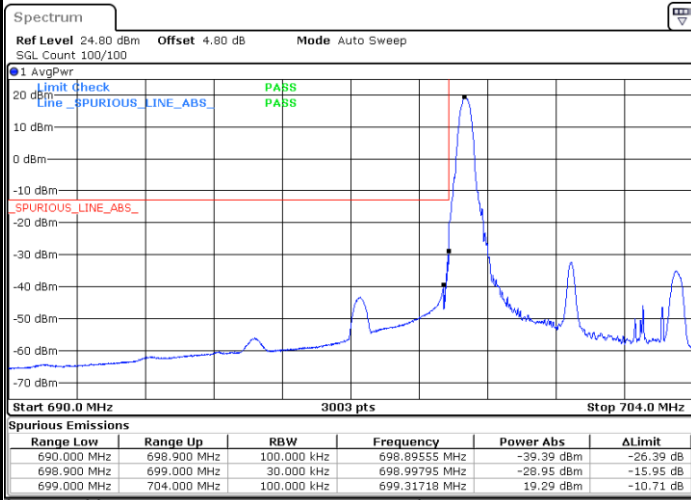


Date: 29.NOV.2021 21:54:37



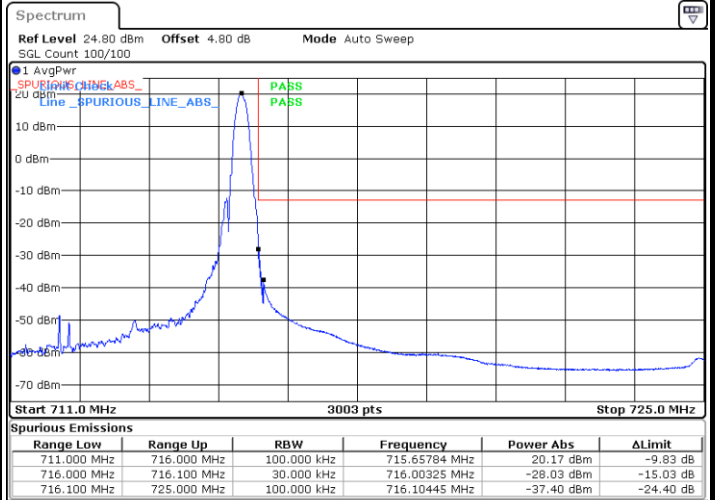
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



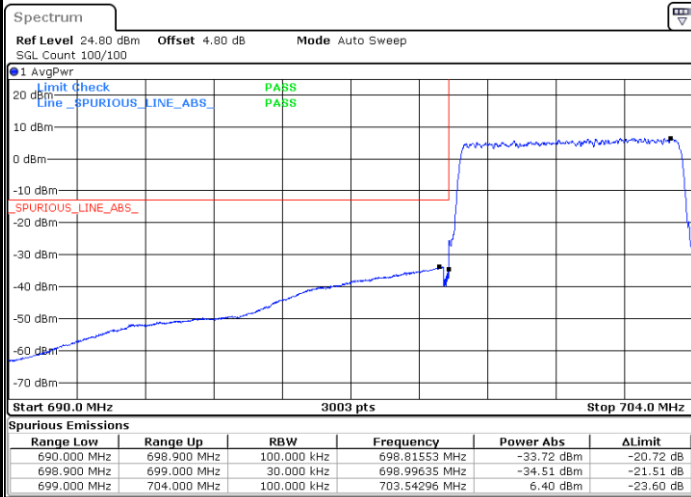
Date: 29.NOV.2021 22:50:08

Highest Band Edge / 1 RB



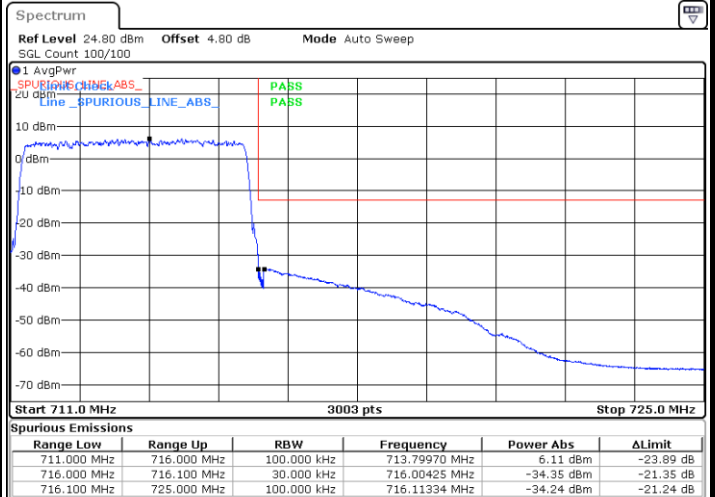
Date: 29.NOV.2021 22:52:54

Lowest Band Edge / Full RB



Date: 29.NOV.2021 22:48:45

Highest Band Edge / Full RB

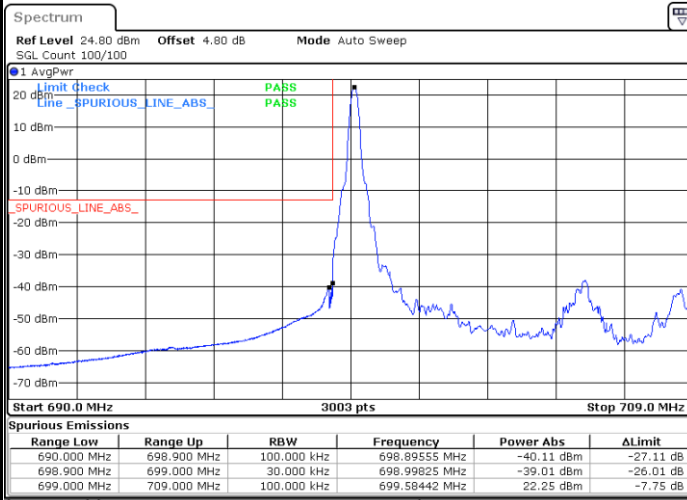


Date: 29.NOV.2021 22:51:31

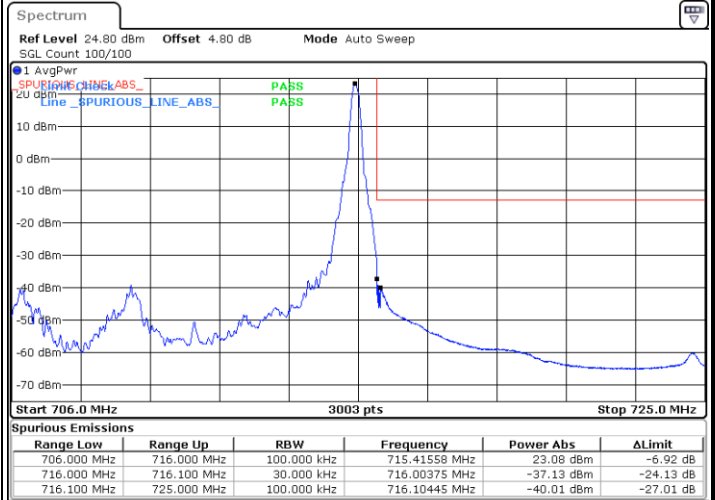


LTE Band 12 / 10MHz / QPSK

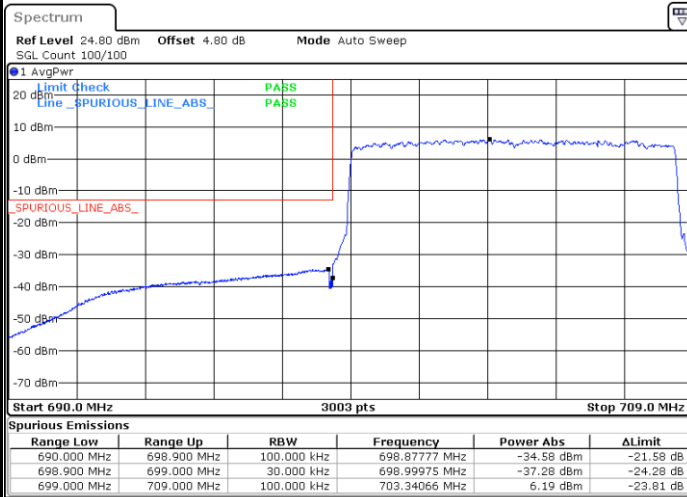
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



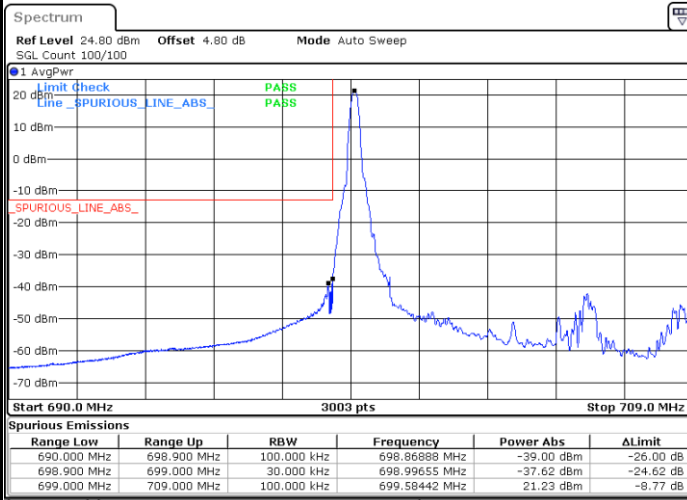
Highest Band Edge / Full RB





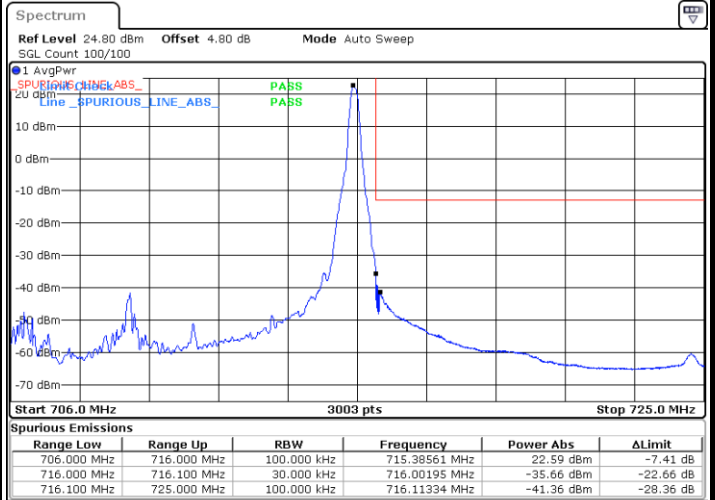
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



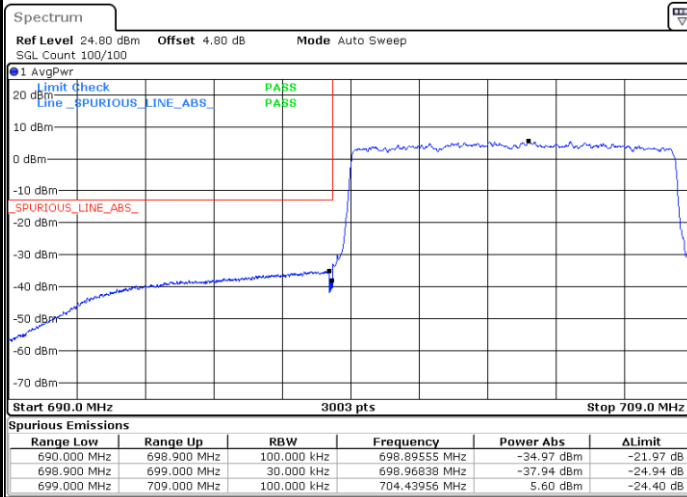
Date: 29.NOV.2021 22:01:33

Highest Band Edge / 1 RB



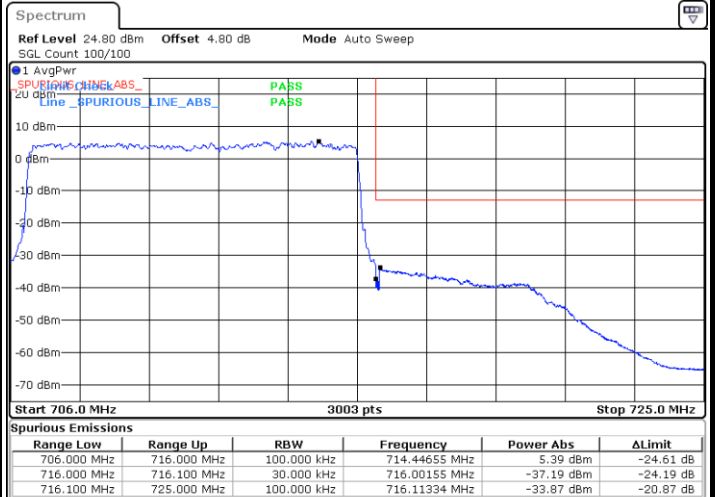
Date: 29.NOV.2021 22:07:06

Lowest Band Edge / Full RB



Date: 29.NOV.2021 22:00:10

Highest Band Edge / Full RB

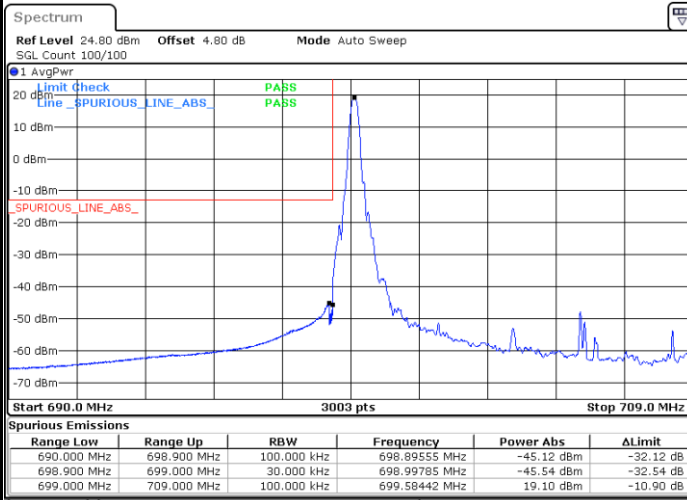


Date: 29.NOV.2021 22:05:43



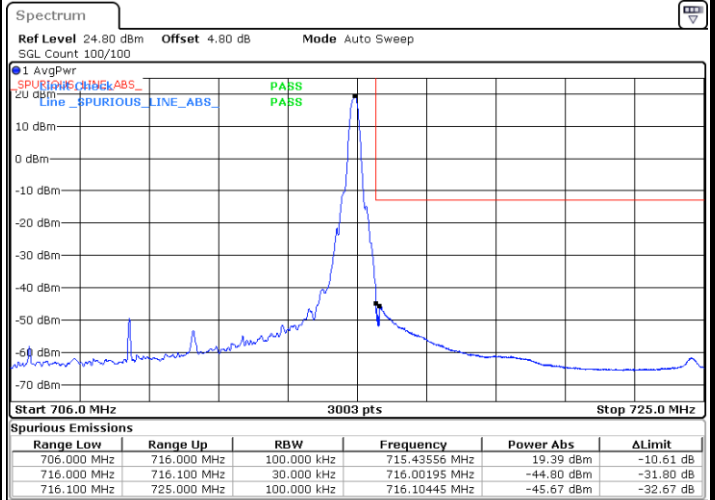
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



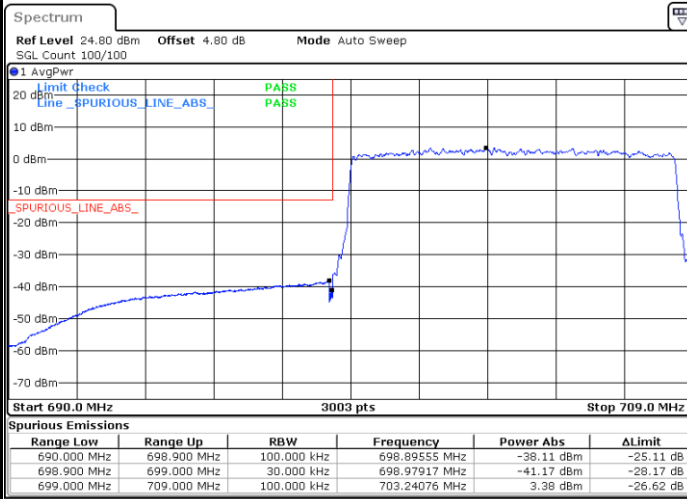
Date: 29.NOV.2021 22:55:41

Highest Band Edge / 1 RB



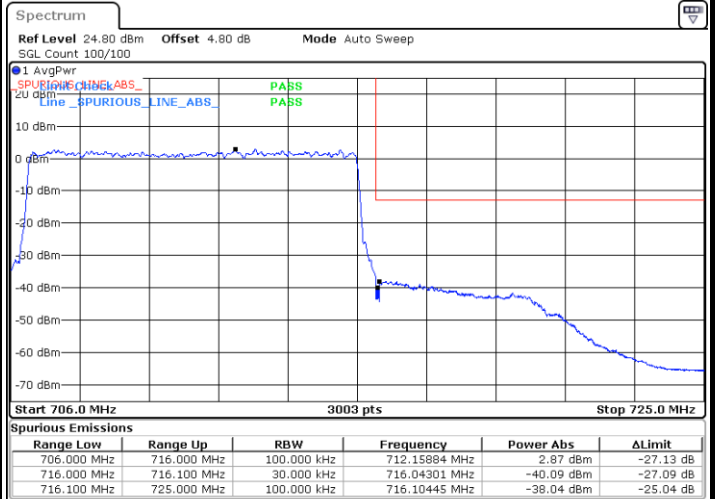
Date: 29.NOV.2021 22:58:27

Lowest Band Edge / Full RB



Date: 29.NOV.2021 22:54:18

Highest Band Edge / Full RB



Date: 29.NOV.2021 22:57:04

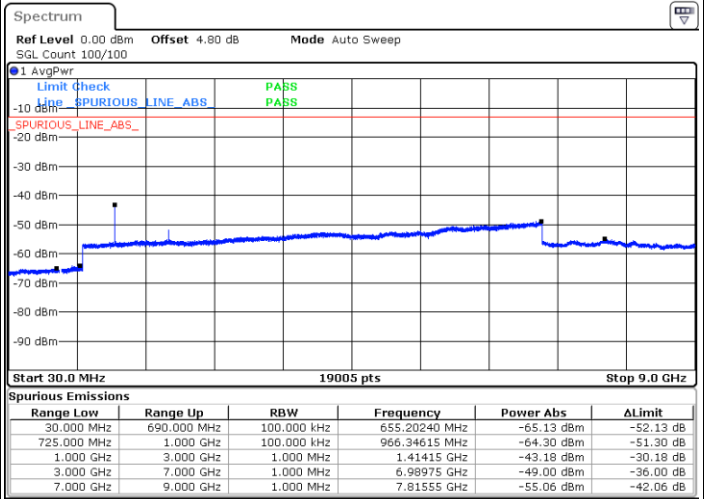
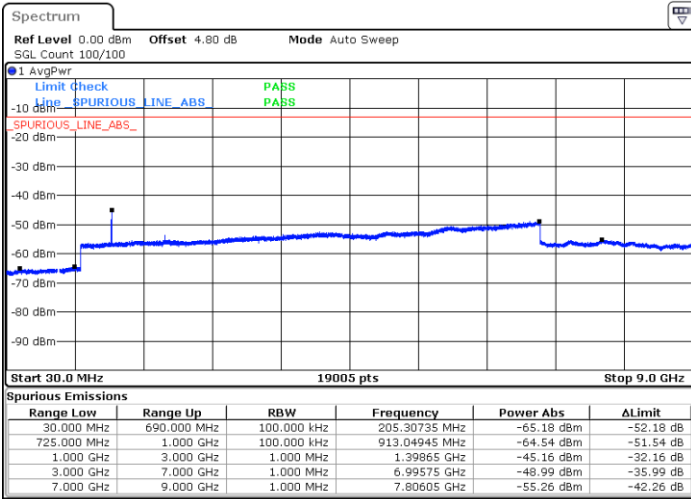


Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

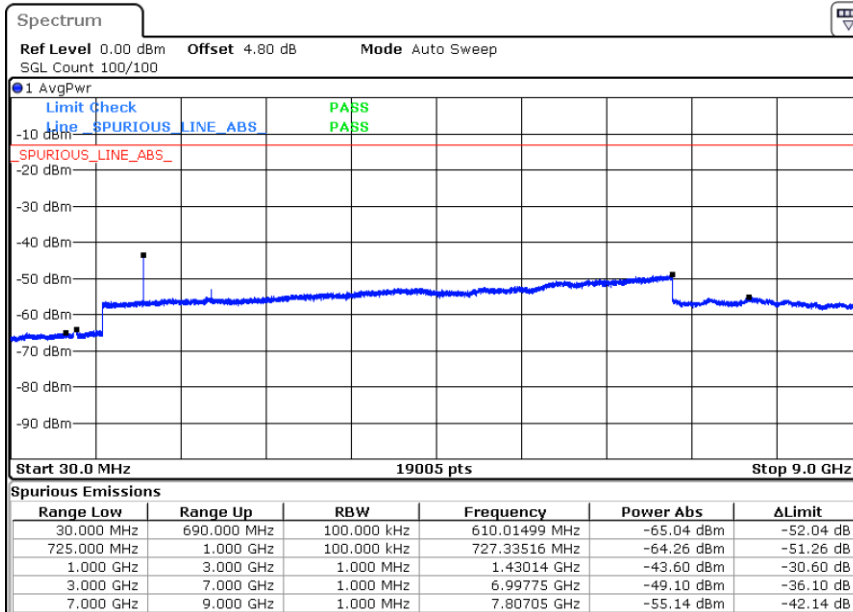
Middle Channel / QPSK



Date: 30.NOV.2021 11:23:41

Date: 30.NOV.2021 11:35:04

Highest Channel / QPSK



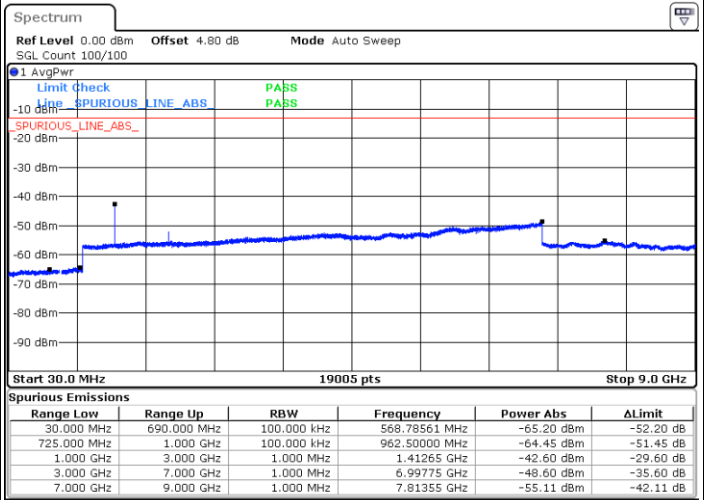
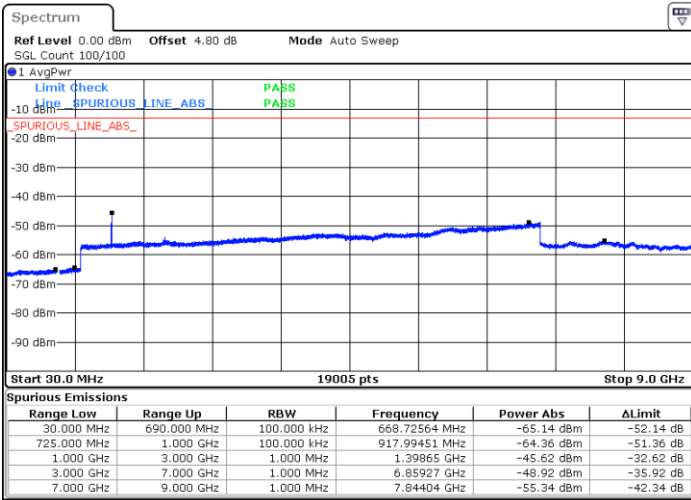
Date: 30.NOV.2021 11:38:01



LTE Band 12 / 3MHz

Lowest Channel / QPSK

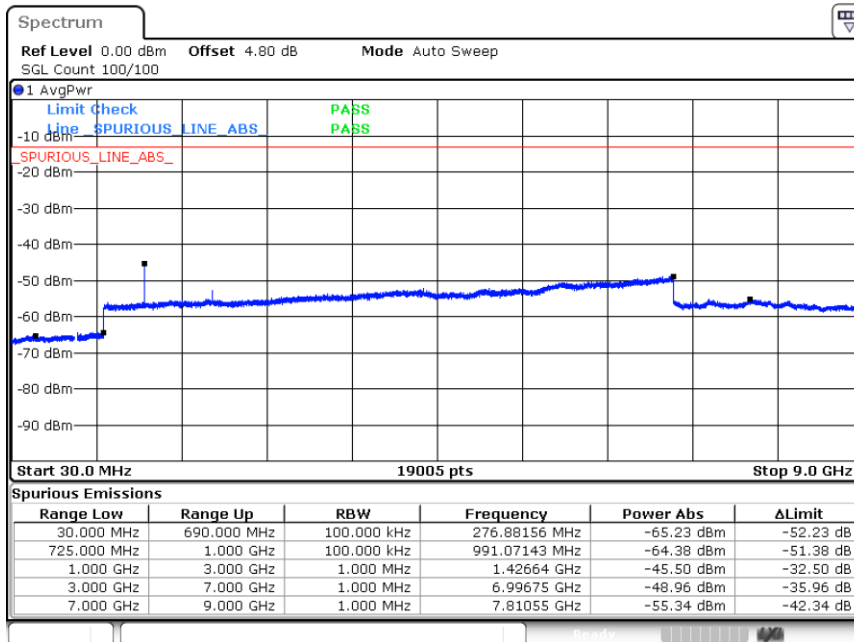
Middle Channel / QPSK



Date: 30.NOV.2021 11:49:31

Date: 30.NOV.2021 11:52:29

Highest Channel / QPSK



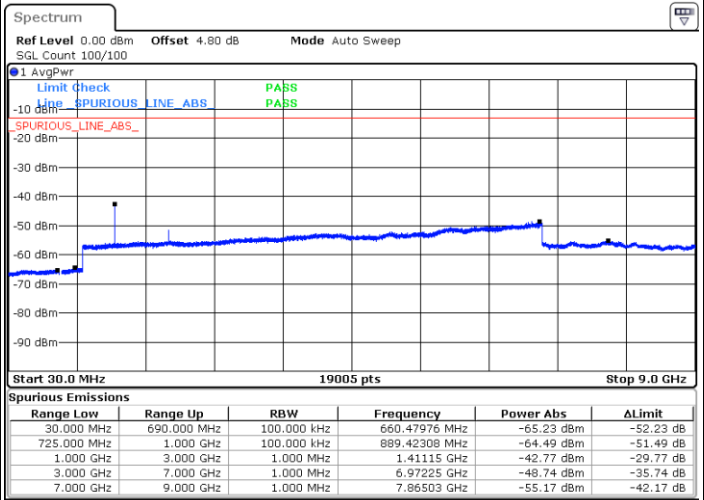
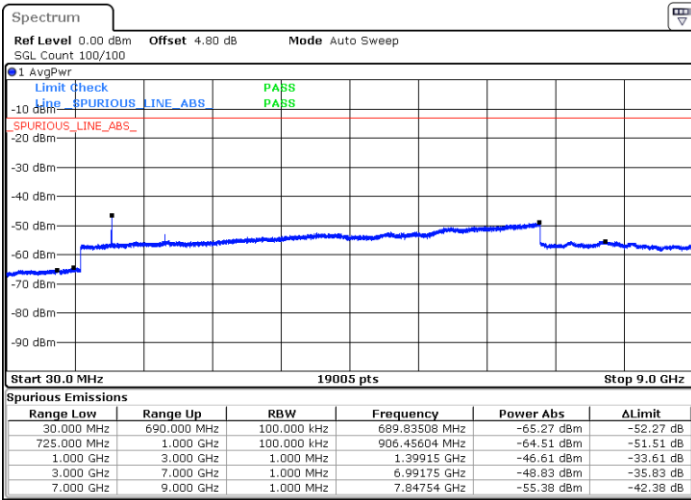
Date: 30.NOV.2021 11:55:28



LTE Band 12 / 5MHz

Lowest Channel / QPSK

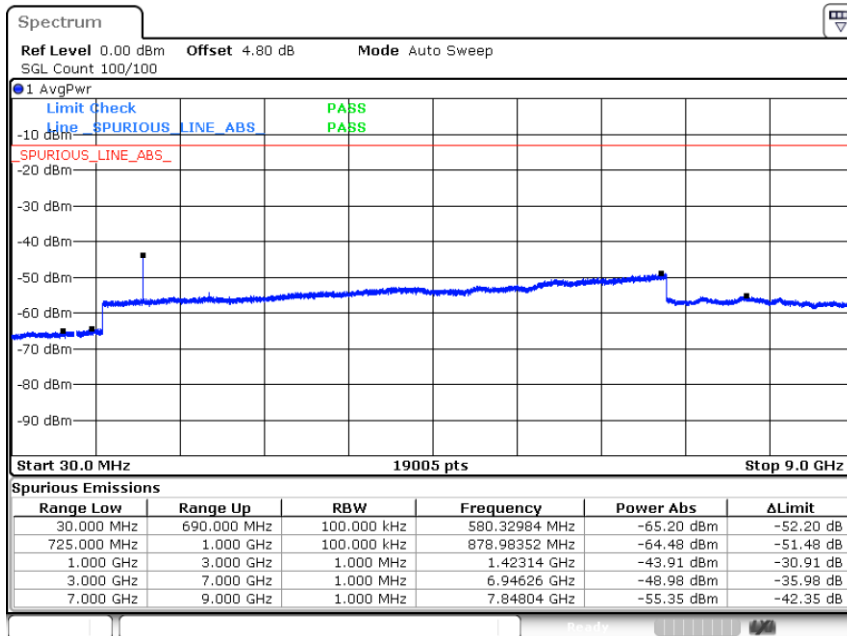
Middle Channel / QPSK



Date: 30.NOV.2021 11:58:27

Date: 30.NOV.2021 12:01:26

Highest Channel / QPSK



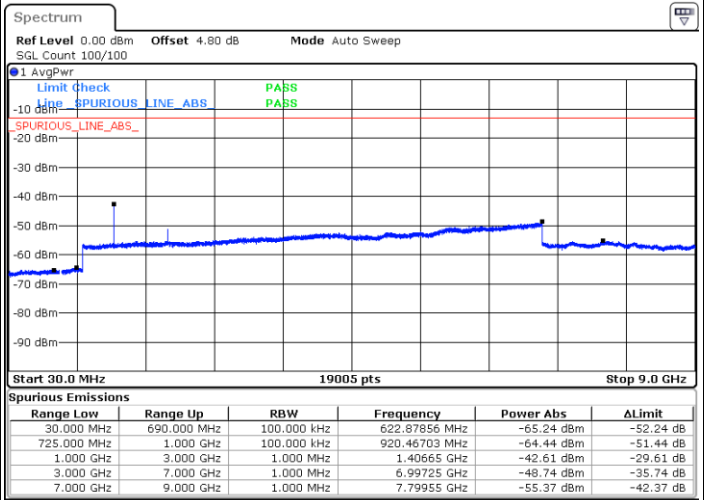
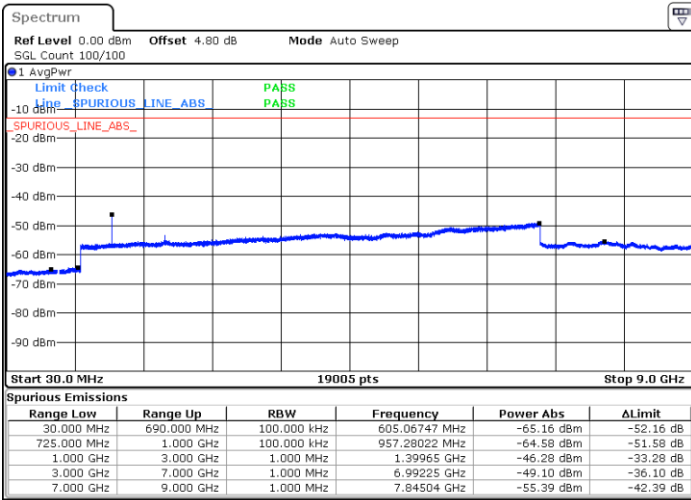
Date: 30.NOV.2021 12:04:24



LTE Band 12 / 10MHz

Lowest Channel / QPSK

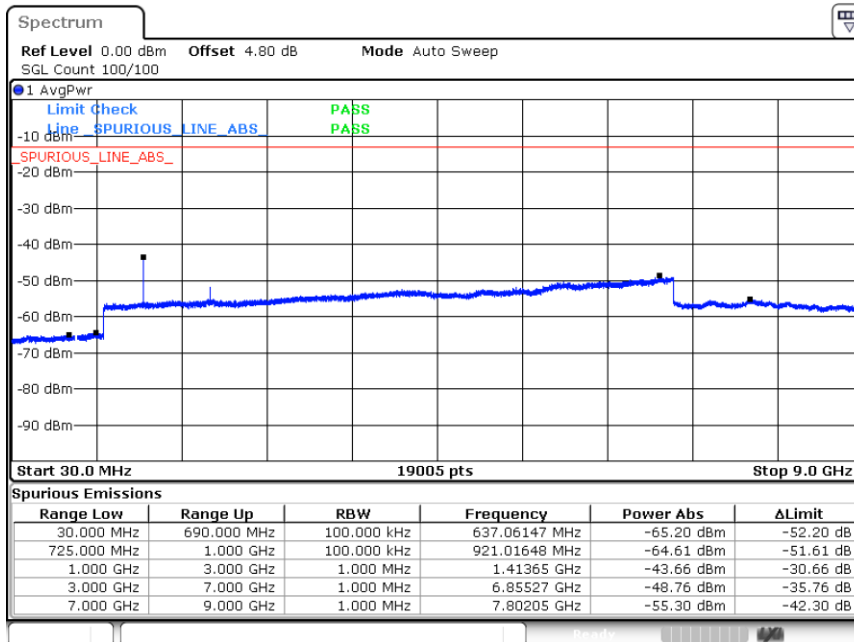
Middle Channel / QPSK



Date: 30.NOV.2021 12:07:23

Date: 30.NOV.2021 12:10:22

Highest Channel / QPSK



Date: 30.NOV.2021 12:13:21



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	0.0012	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

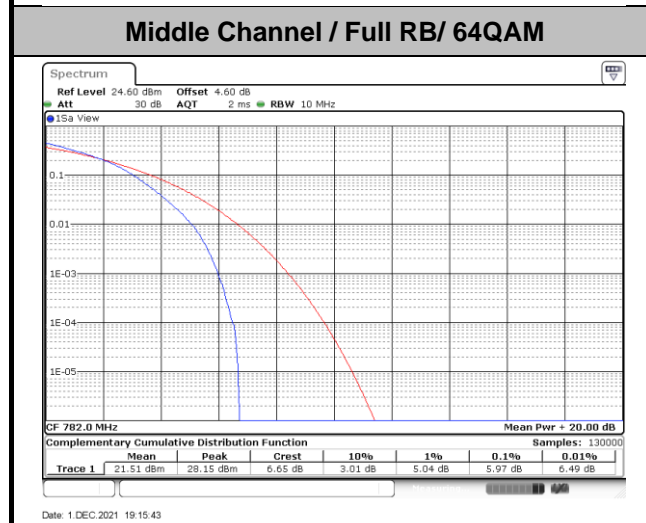
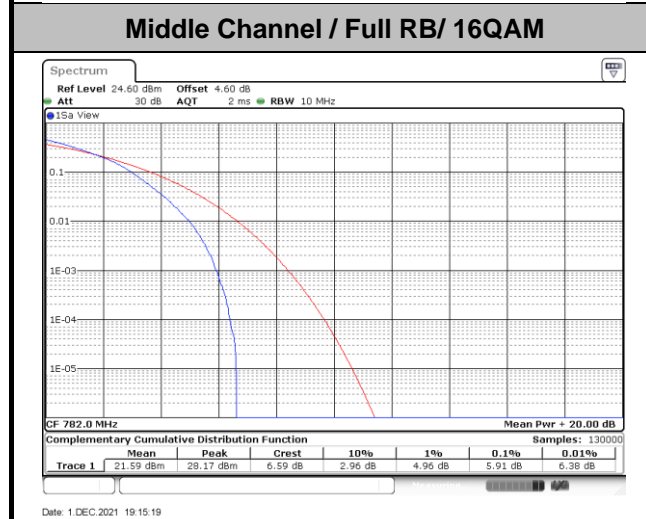
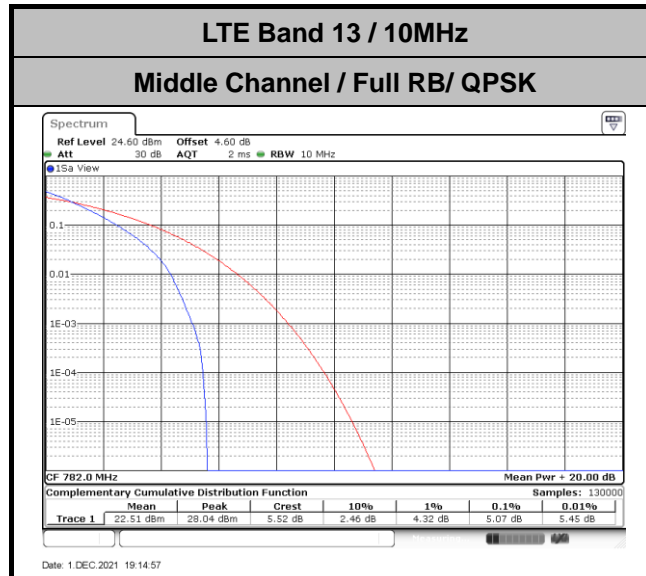
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

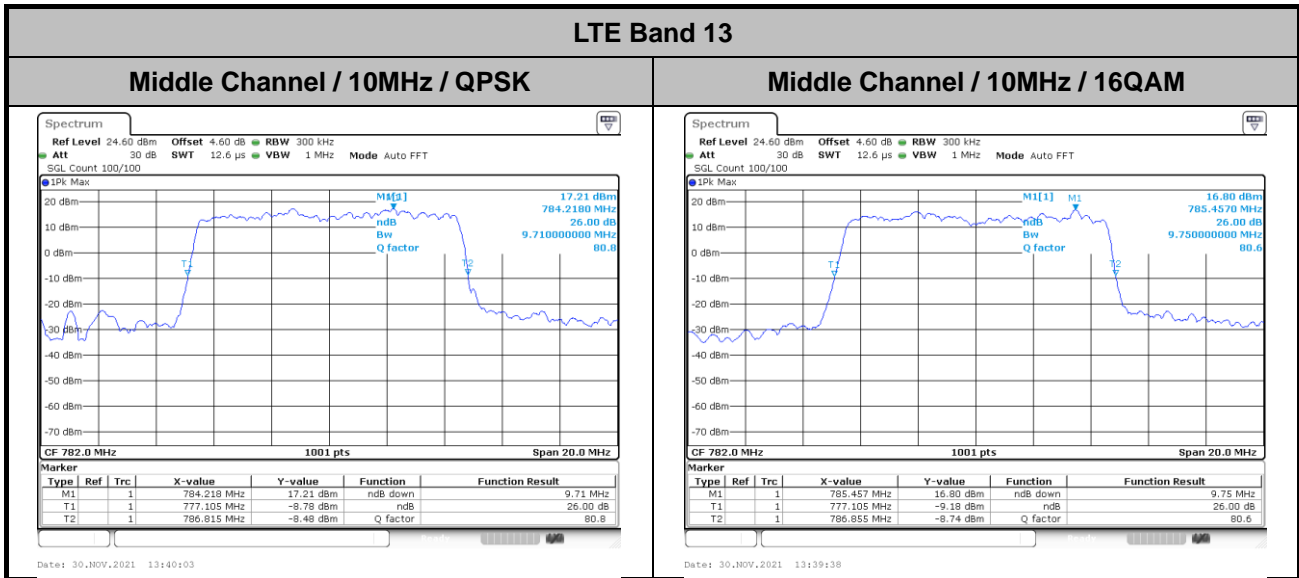
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.07	5.91	5.97	PASS





26dB Bandwidth

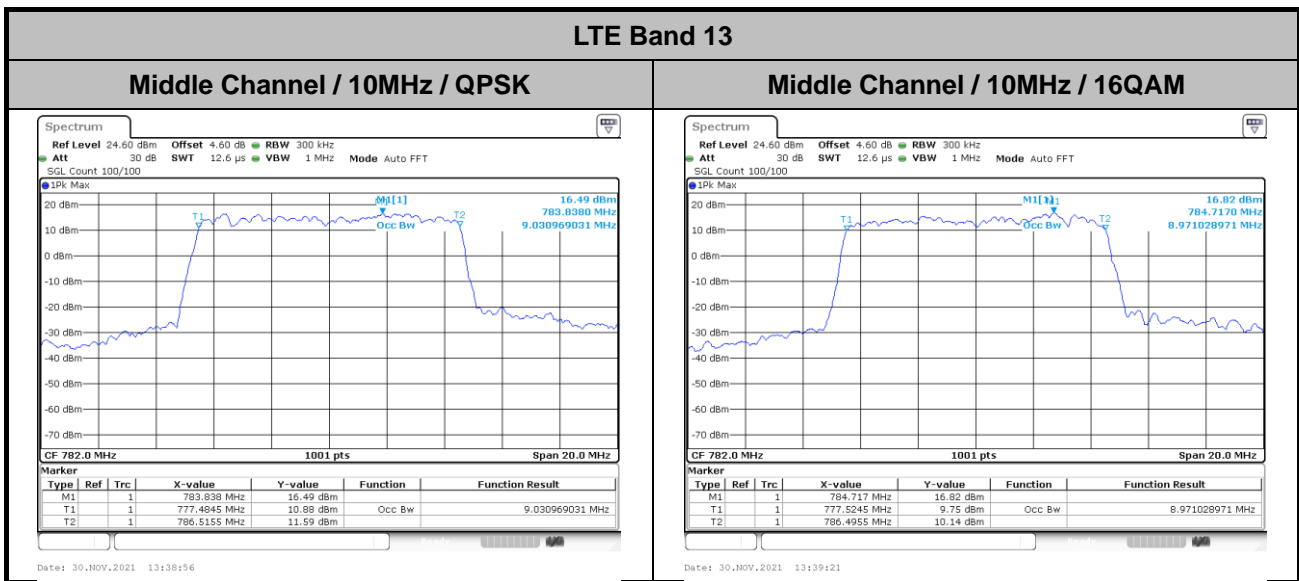
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.71	9.75





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.97

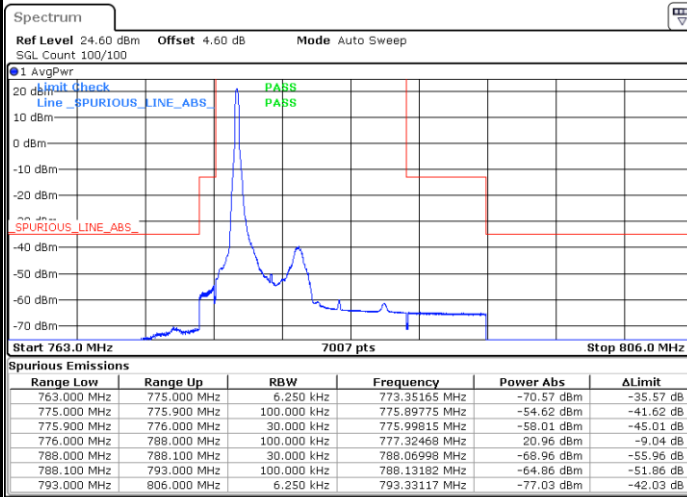




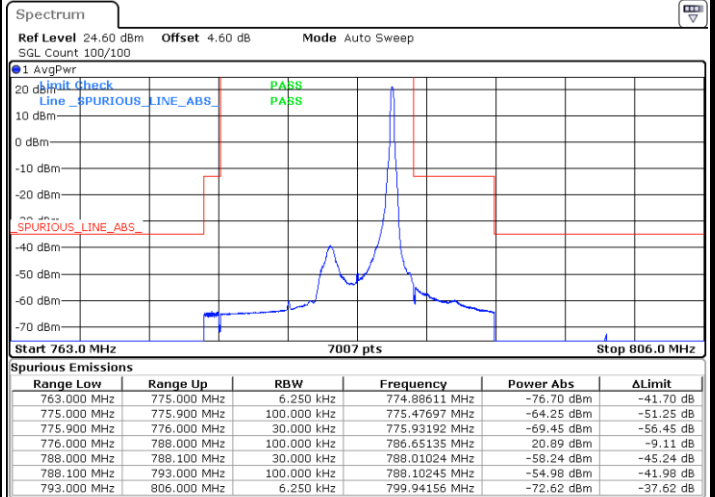
Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

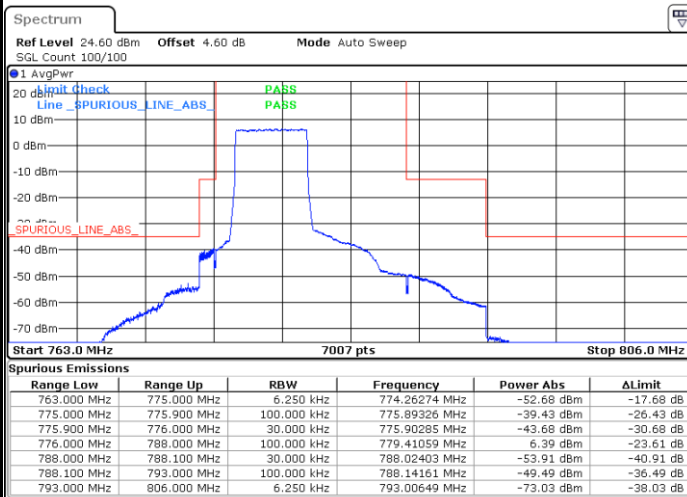
Lowest Band Edge / 1 RB



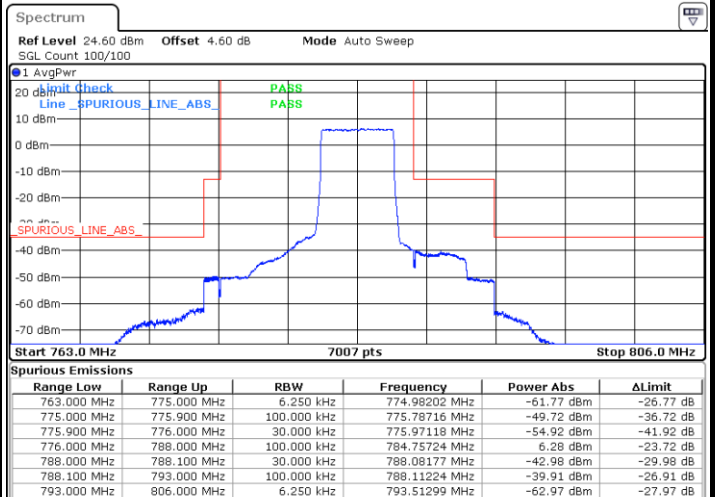
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



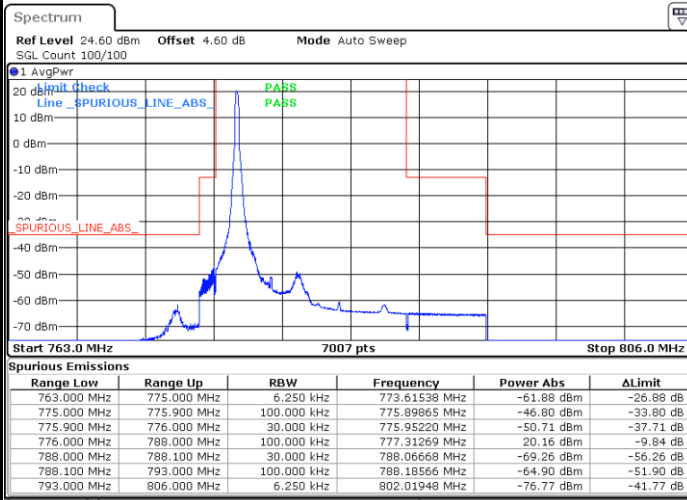
Highest Band Edge / Full RB





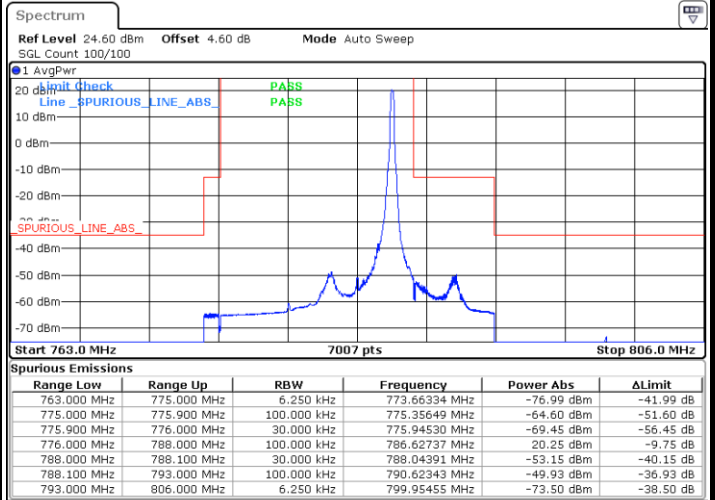
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



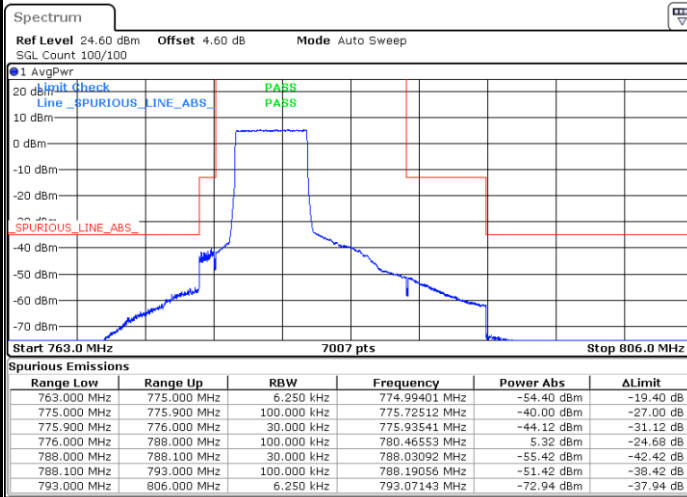
Date: 30.NOV.2021 12:51:14

Highest Band Edge / 1 RB



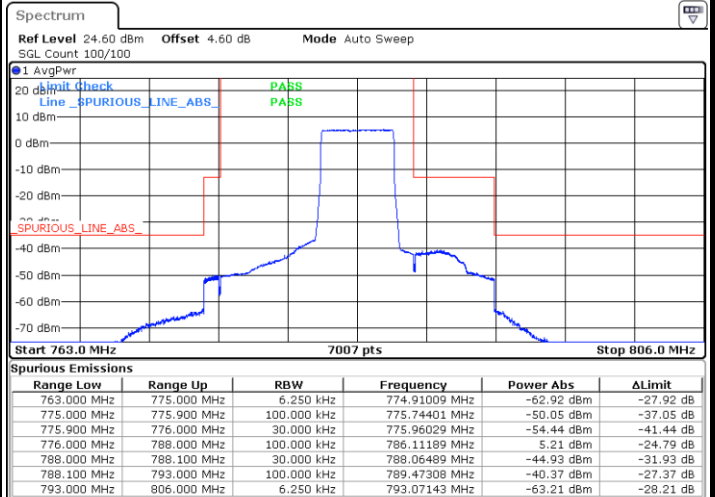
Date: 30.NOV.2021 13:08:46

Lowest Band Edge / Full RB



Date: 30.NOV.2021 12:57:02

Highest Band Edge / Full RB



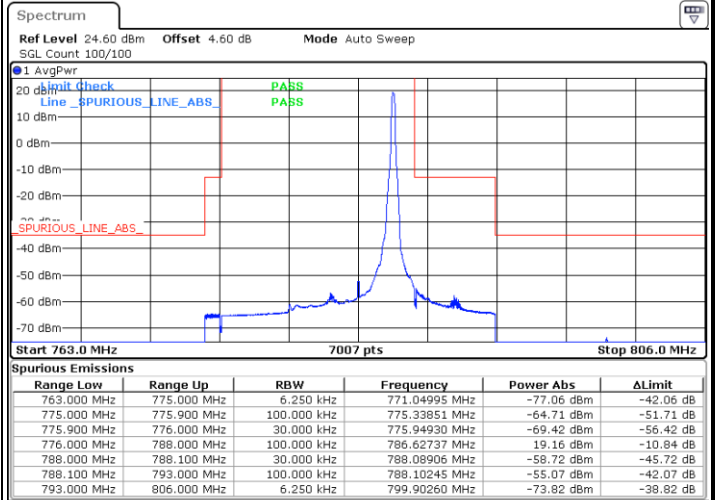
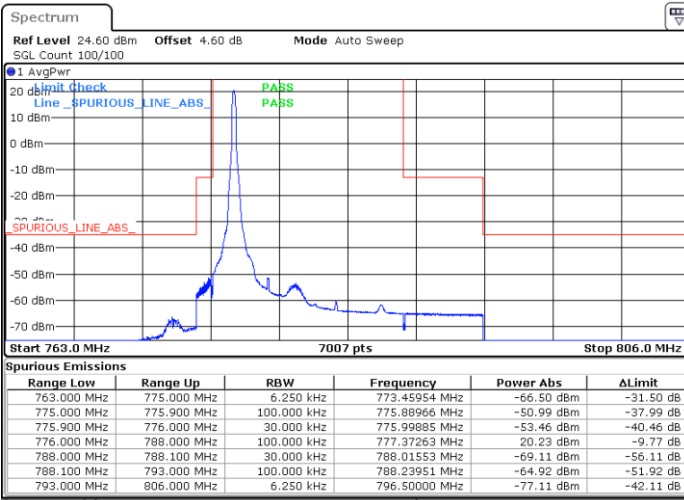
Date: 30.NOV.2021 13:16:47



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

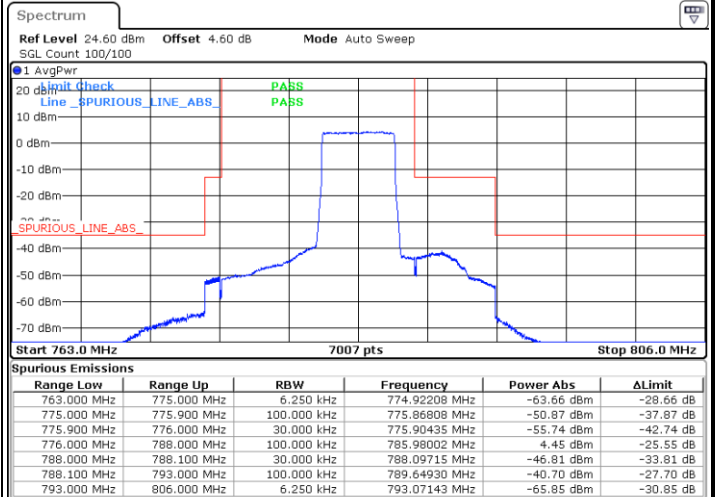
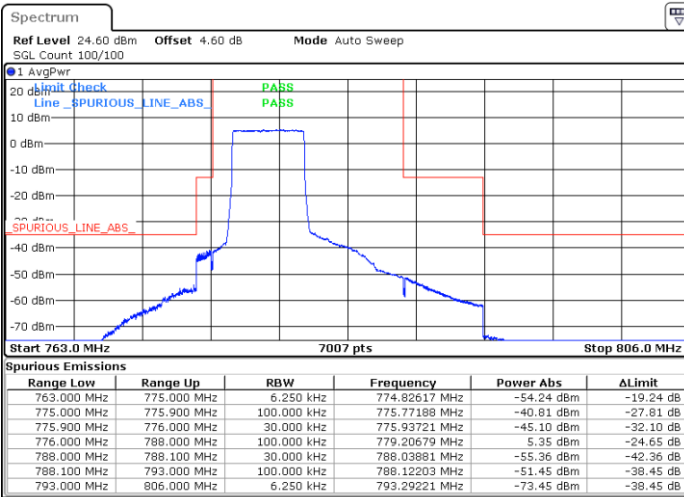


Date: 30.NOV.2021 12:53:10

Date: 30.NOV.2021 13:12:56

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.NOV.2021 12:55:06

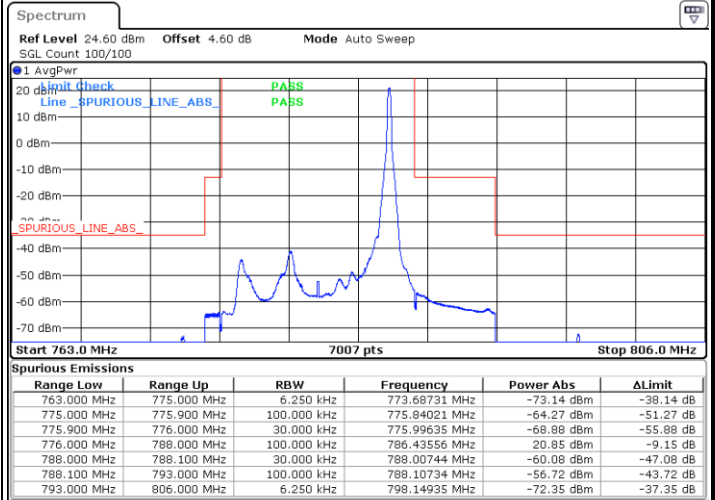
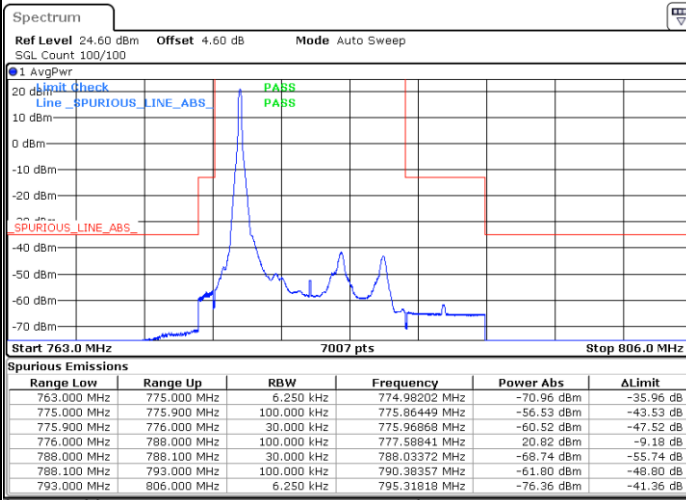
Date: 30.NOV.2021 13:14:52



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

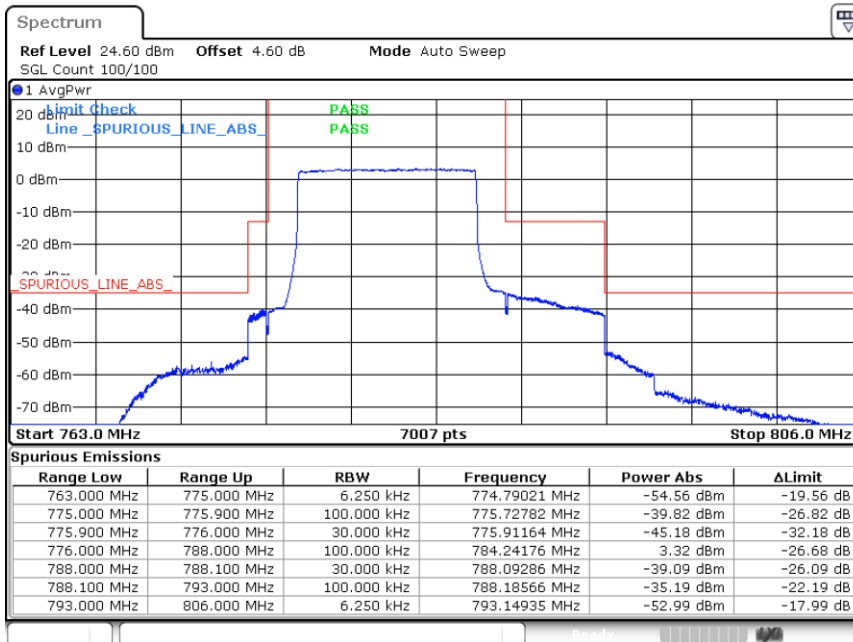
middle Band Edge / 1 RB



Date: 30.NOV.2021 13:23:25

Date: 30.NOV.2021 13:32:55

Middle Band Edge / Full RB

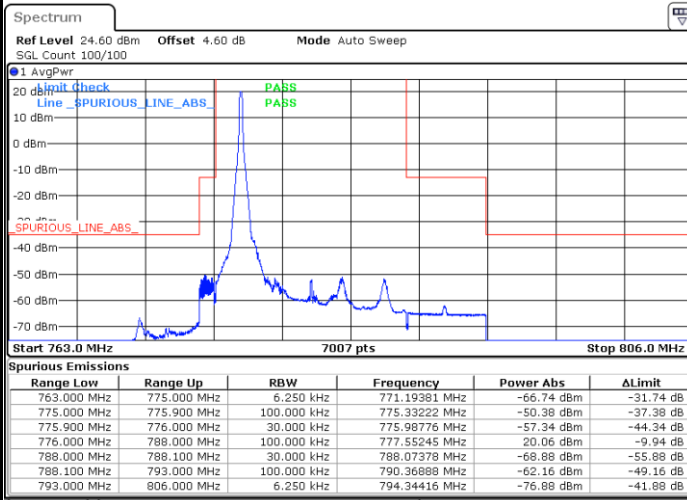


Date: 30.NOV.2021 13:38:39



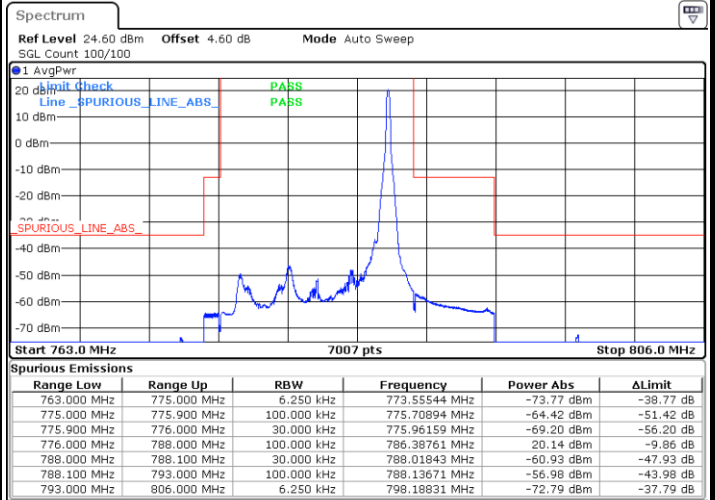
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



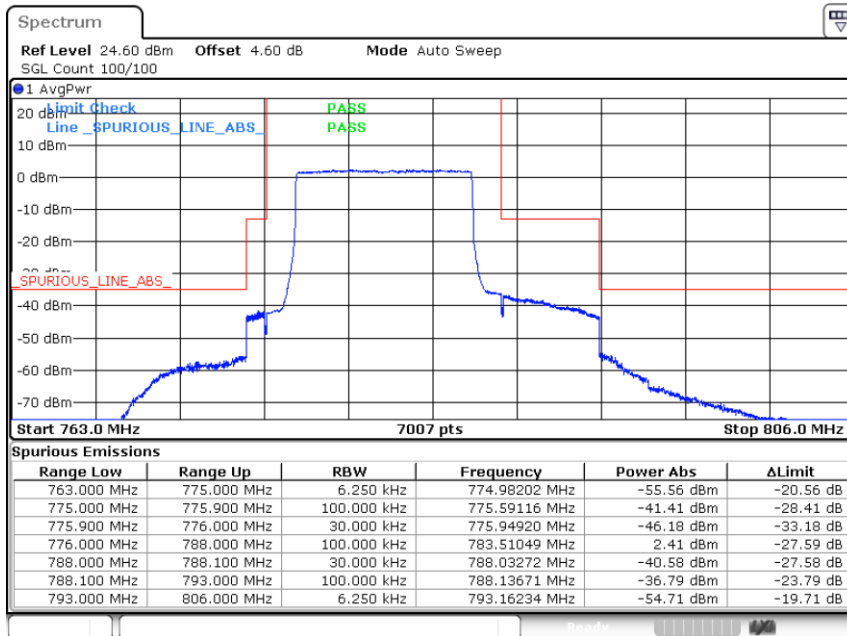
Date: 30.NOV.2021 13:25:19

middle Band Edge / 1 RB



Date: 30.NOV.2021 13:31:02

middle Band Edge / Full RB



Date: 30.NOV.2021 13:36:44