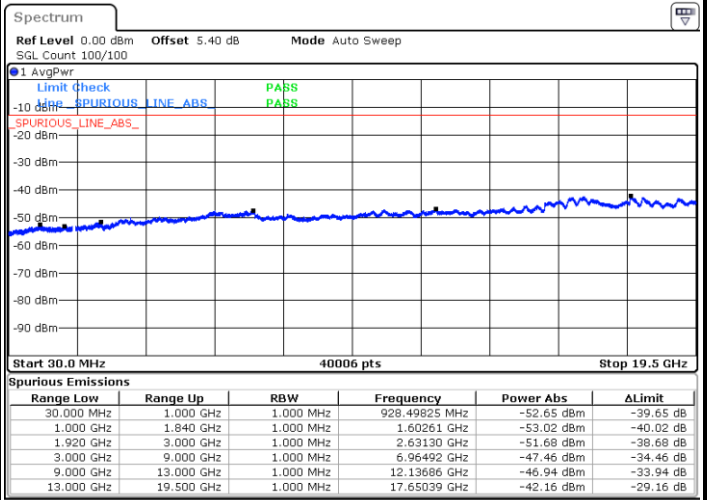
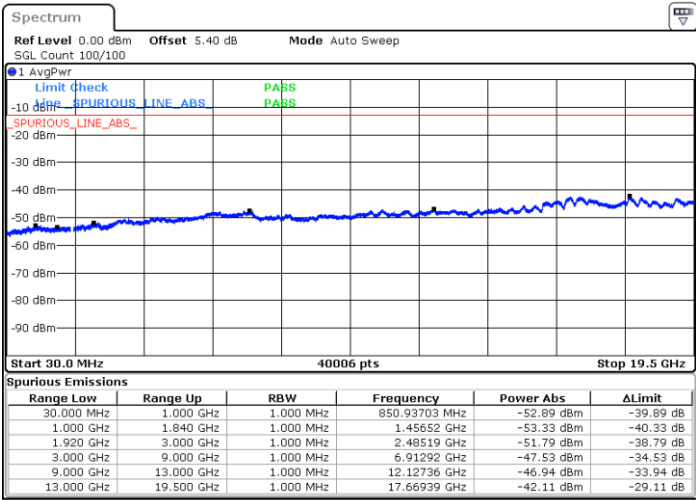




LTE Band 2 / 10MHz

Lowest Channel / QPSK

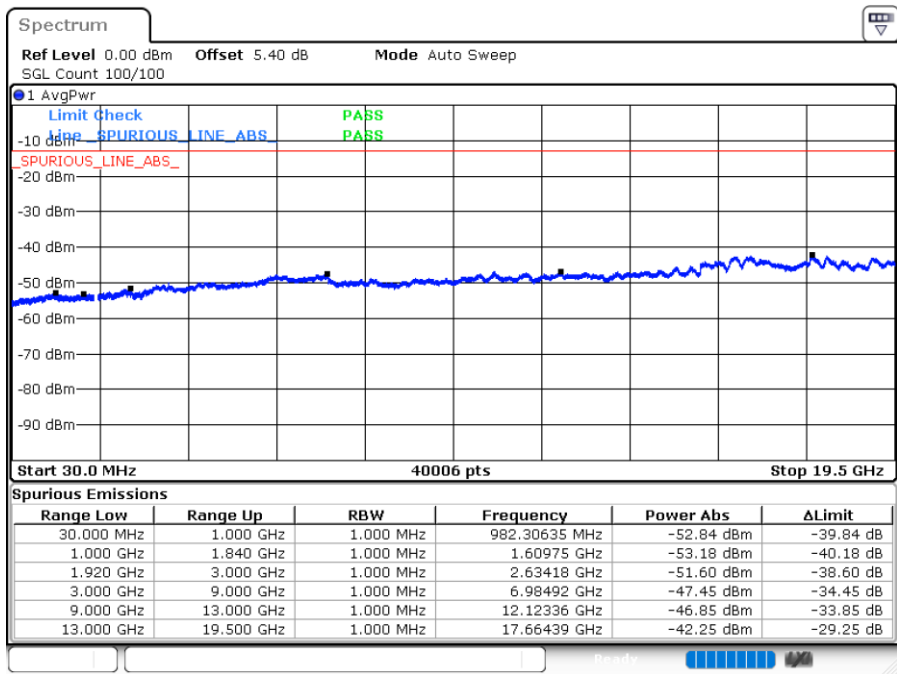
Middle Channel / QPSK



Date: 28.JAN.2022 16:00:27

Date: 28.JAN.2022 16:05:46

Highest Channel / QPSK



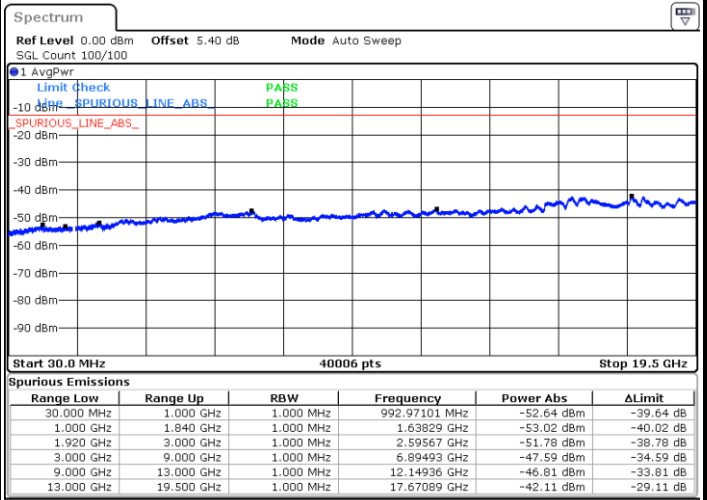
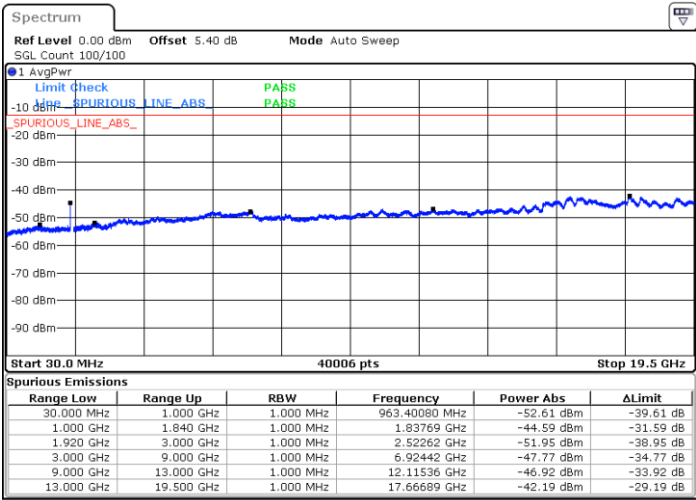
Date: 28.JAN.2022 16:06:45



LTE Band 2 / 15MHz

Lowest Channel / QPSK

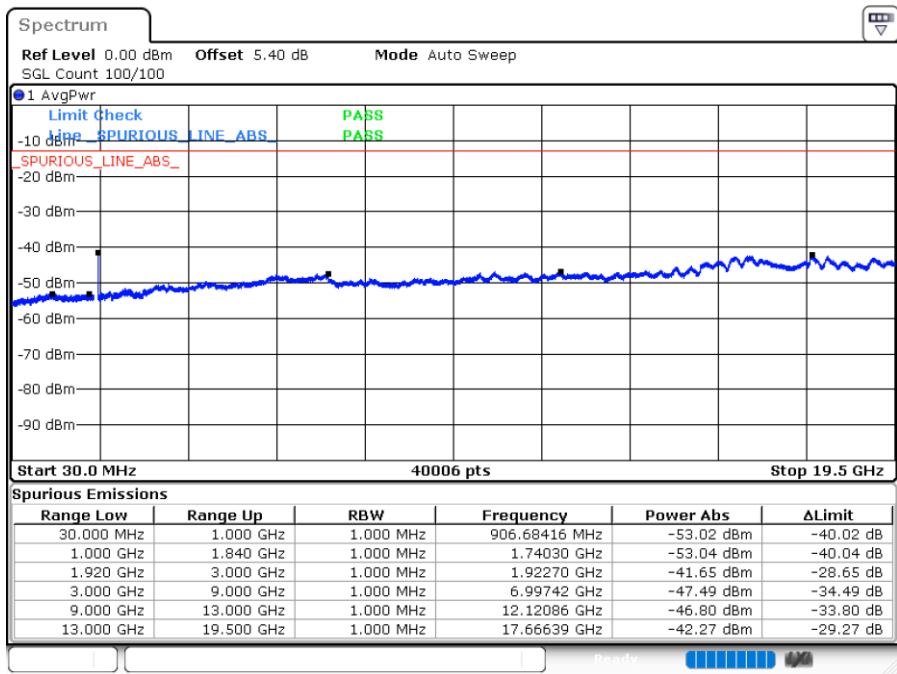
Middle Channel / QPSK



Date: 28.JAN.2022 16:12:14

Date: 28.JAN.2022 16:17:32

Highest Channel / QPSK



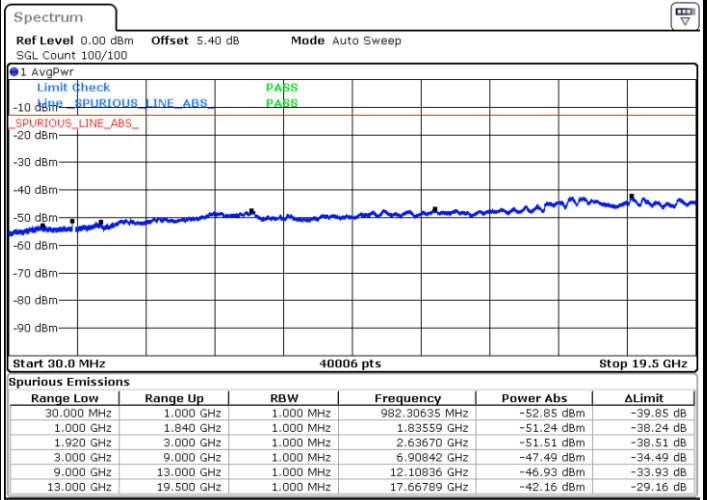
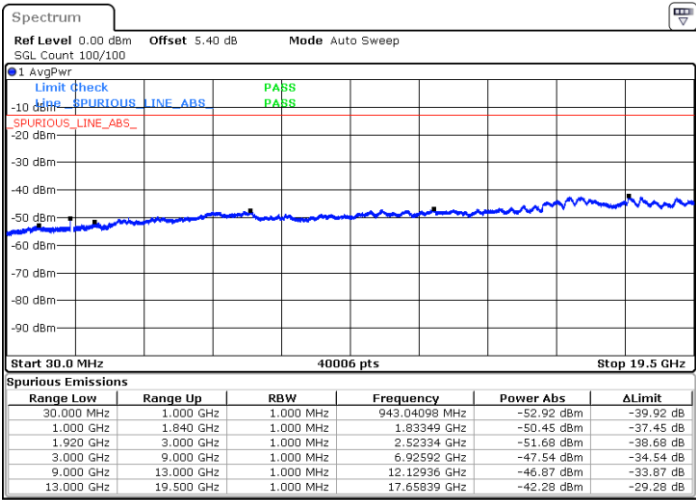
Date: 28.JAN.2022 16:19:08



LTE Band 2 / 20MHz

Lowest Channel / QPSK

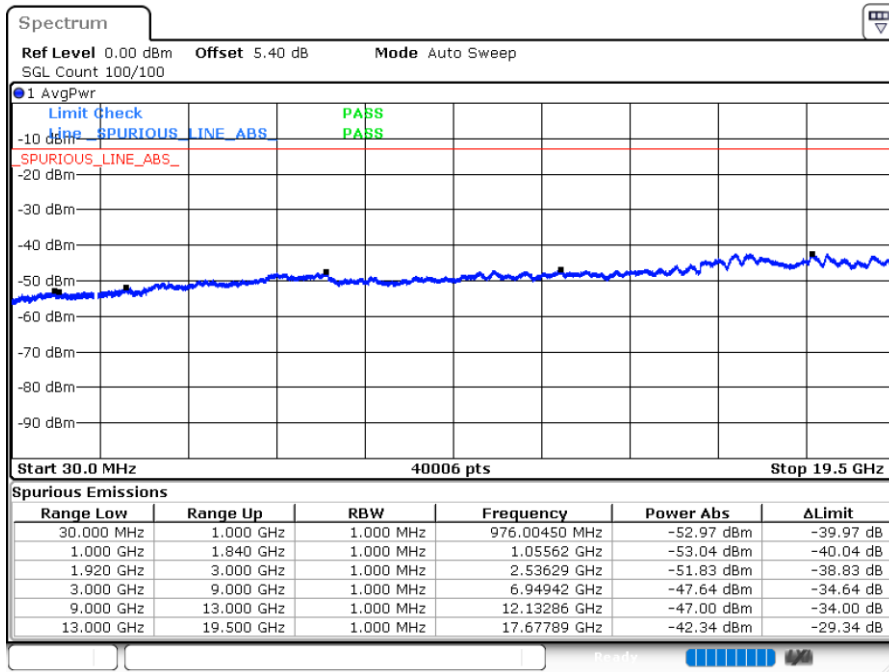
Middle Channel / QPSK



Date: 28.JAN.2022 16:24:36

Date: 28.JAN.2022 16:30:34

Highest Channel / QPSK



Date: 28.JAN.2022 16:31:33



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	0.0015	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0013	

Note:

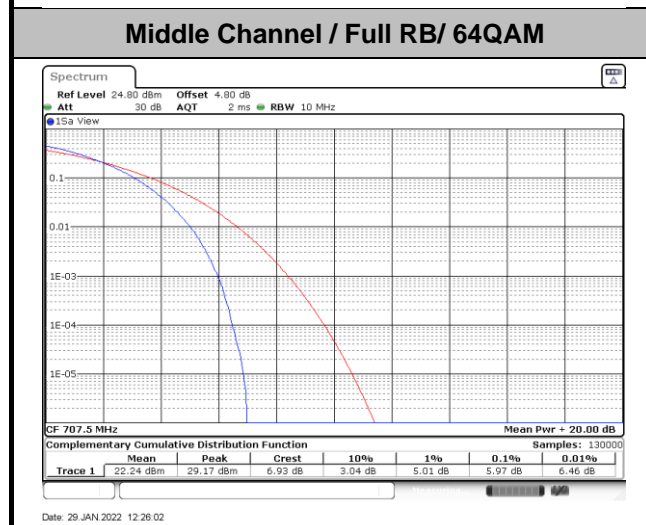
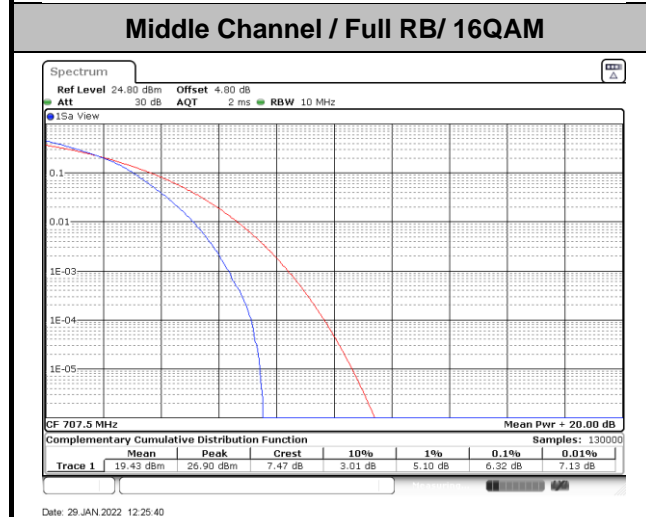
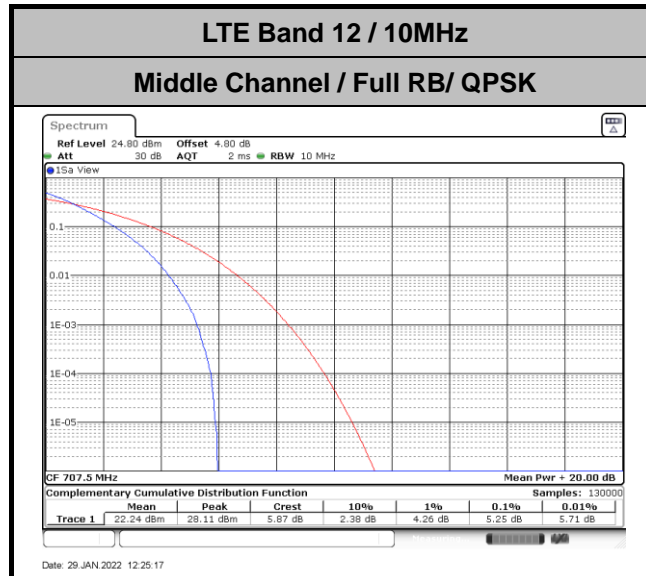
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

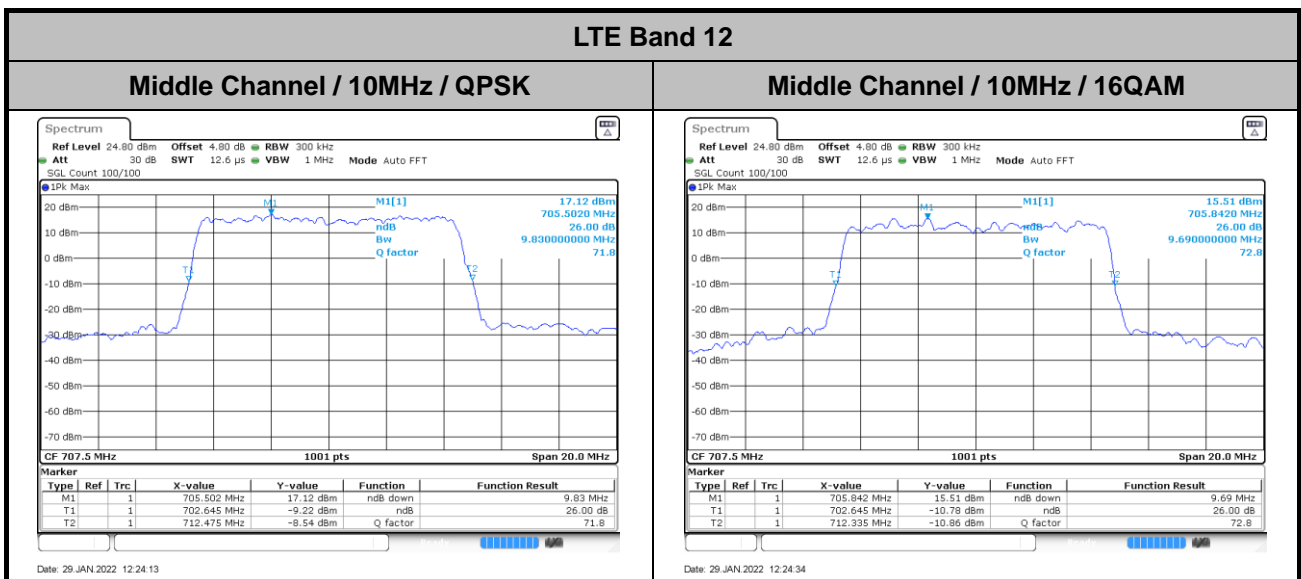
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.32	5.97	PASS





26dB Bandwidth

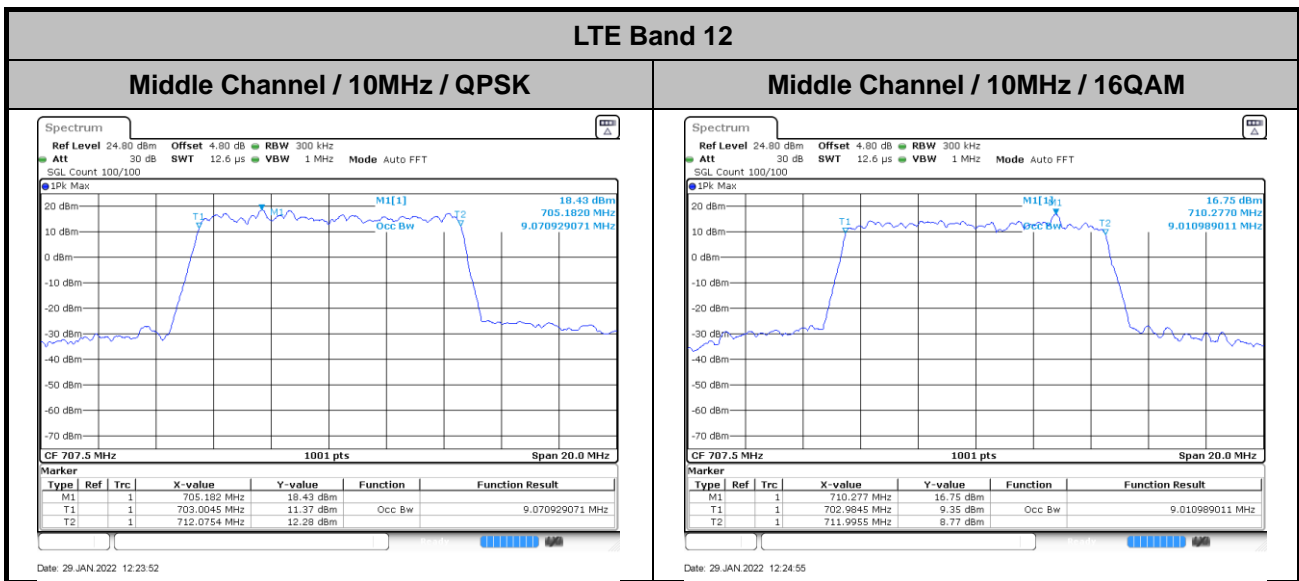
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.69





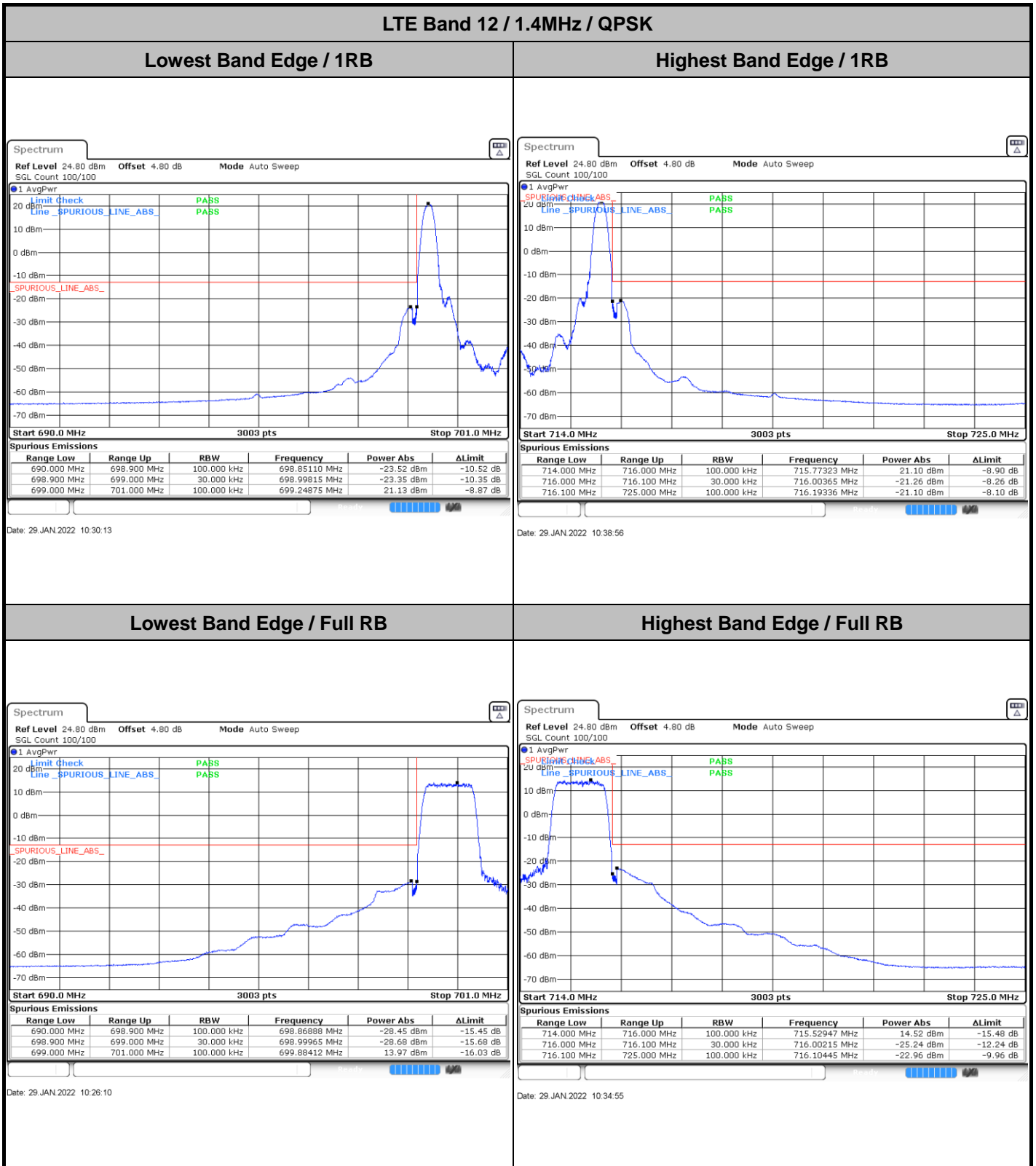
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.01





Conducted Band Edge

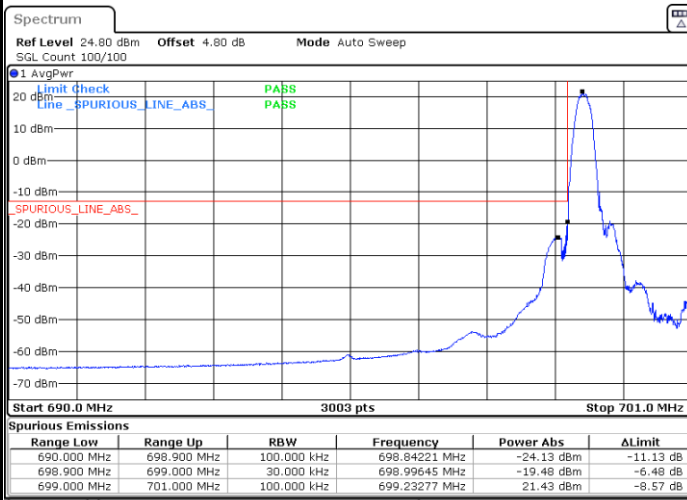




LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

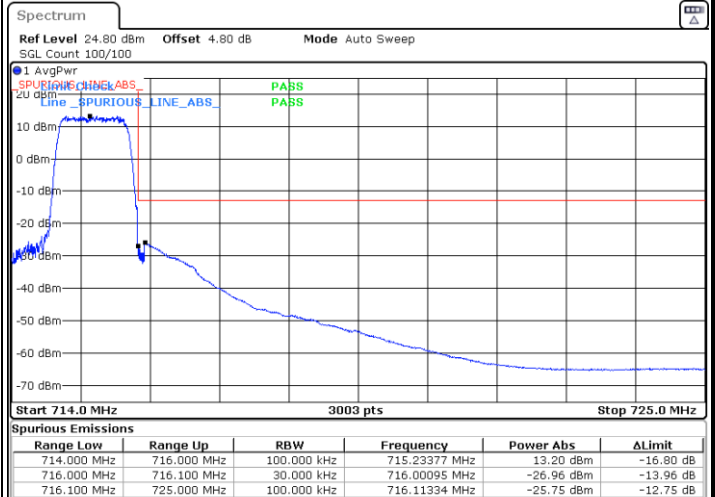
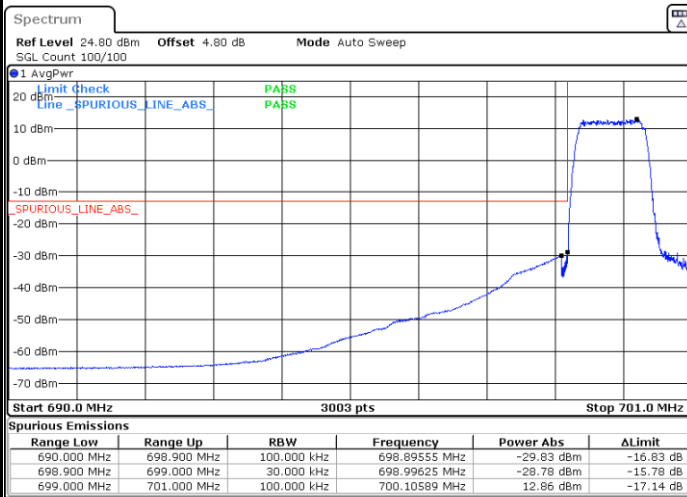


Date: 29 JAN 2022 10:28:51

Date: 29 JAN 2022 10:37:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



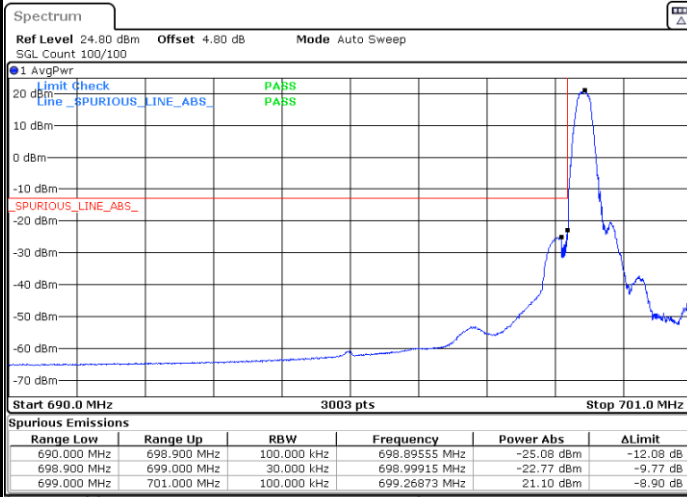
Date: 29 JAN 2022 10:27:31

Date: 29 JAN 2022 10:36:16



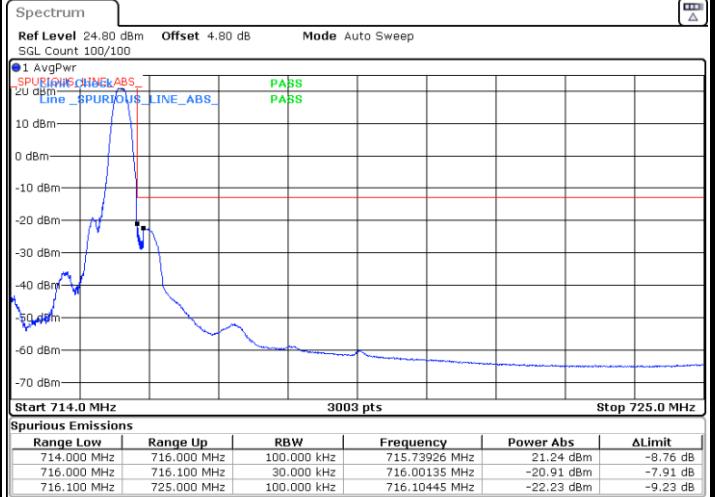
LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



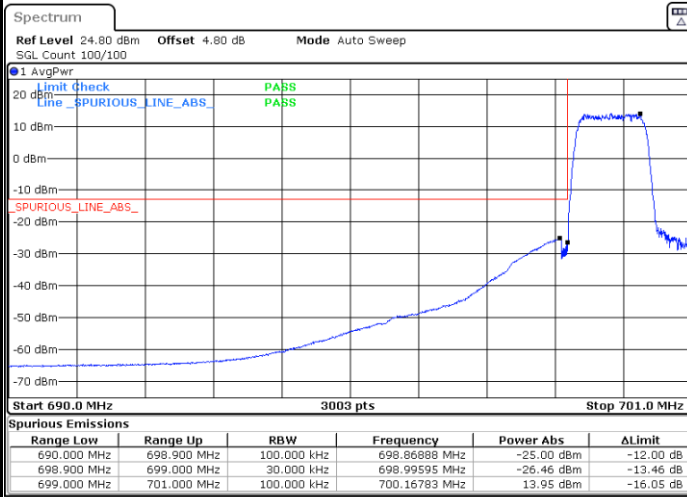
Date: 29 JAN 2022 11:32:55

Highest Band Edge / 1 RB



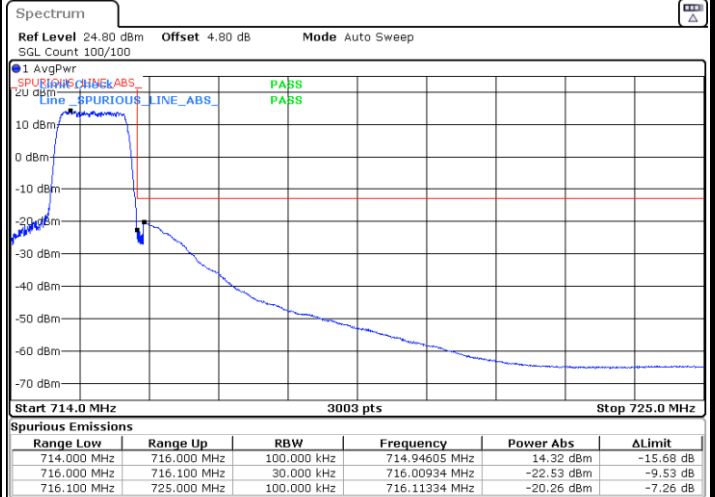
Date: 29 JAN 2022 11:36:55

Lowest Band Edge / Full RB



Date: 29 JAN 2022 11:34:15

Highest Band Edge / Full RB

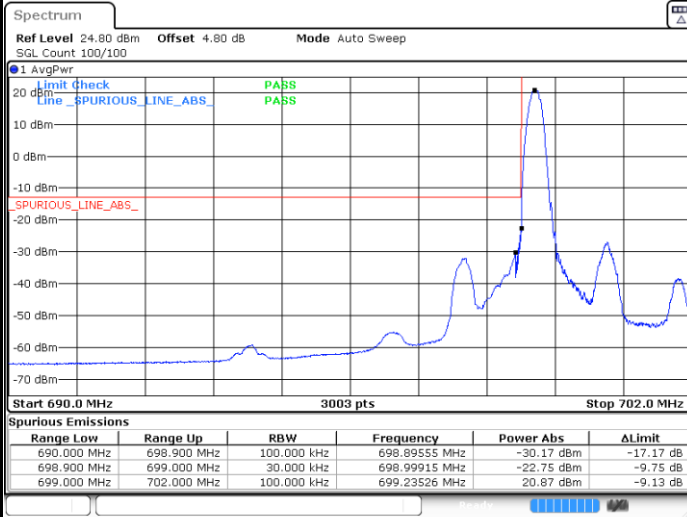


Date: 29 JAN 2022 11:35:35



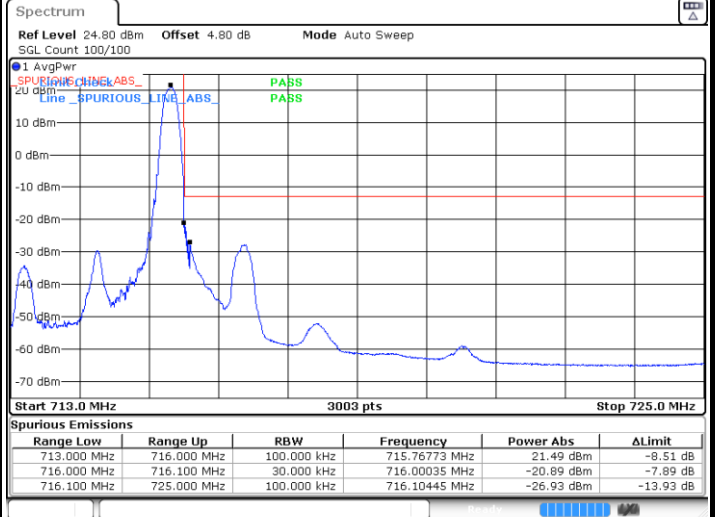
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



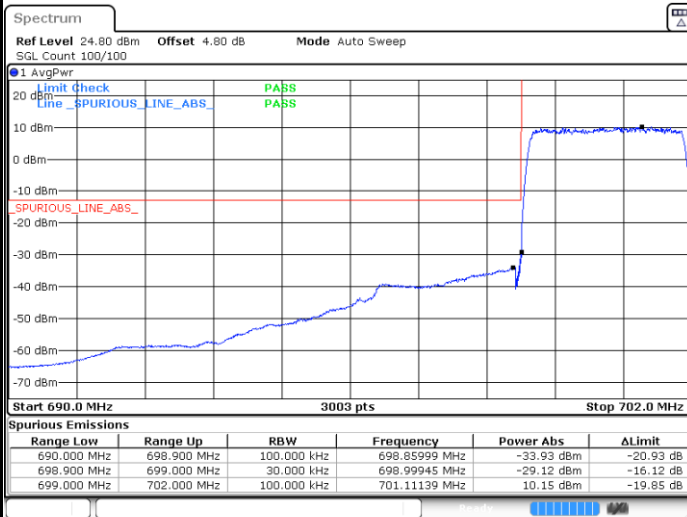
Date: 29 JAN 2022 10:46:03

Highest Band Edge / 1 RB



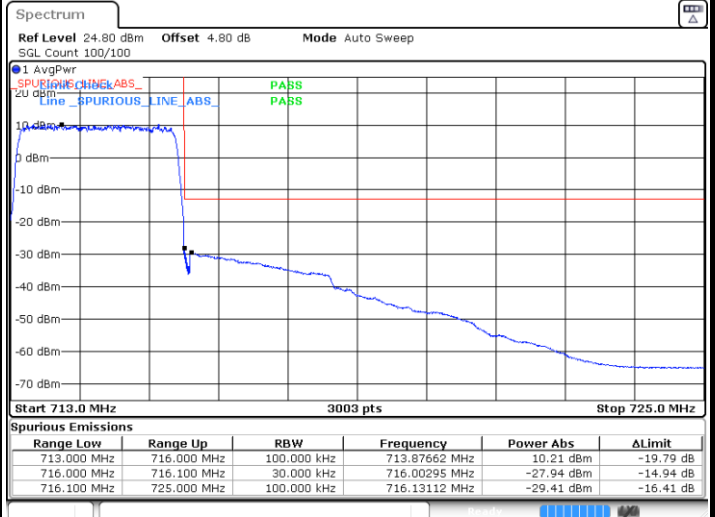
Date: 29 JAN 2022 10:54:45

Lowest Band Edge / Full RB



Date: 29 JAN 2022 10:41:59

Highest Band Edge / Full RB

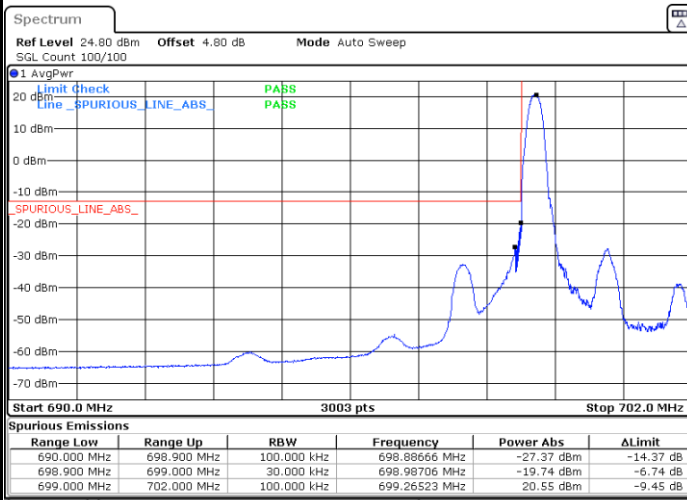


Date: 29 JAN 2022 10:50:44



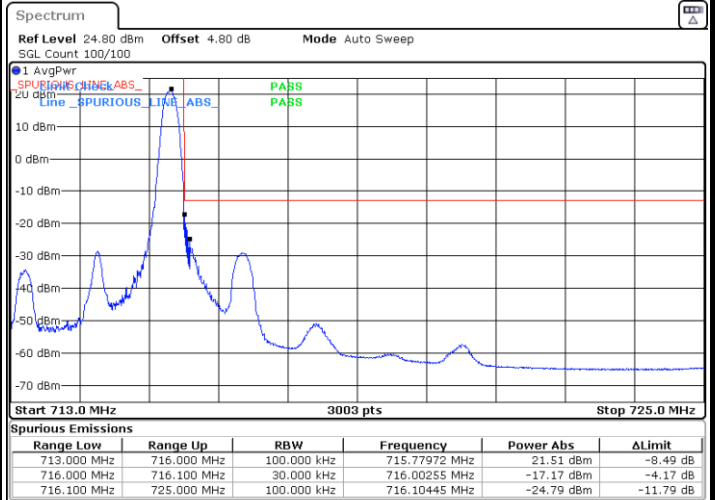
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



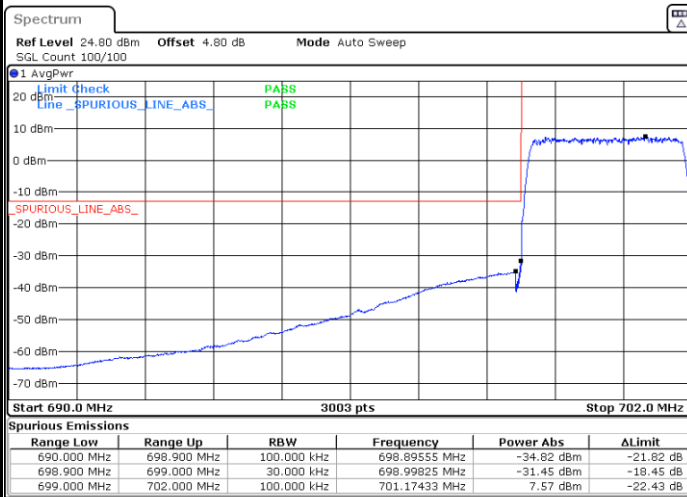
Date: 29 JAN 2022 10:44:42

Highest Band Edge / 1 RB



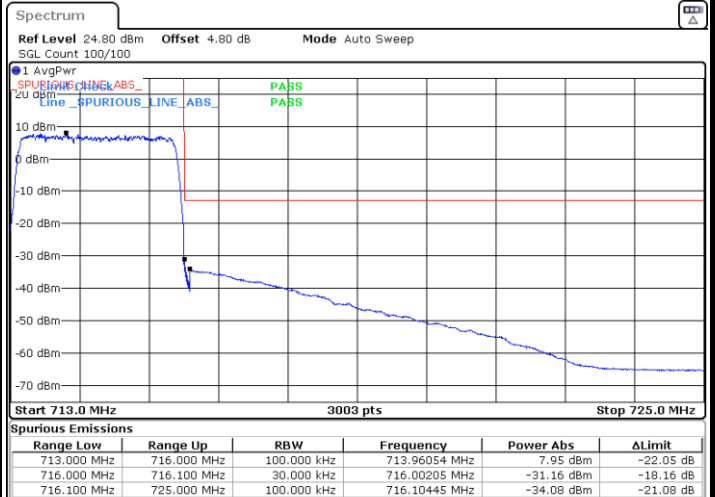
Date: 29 JAN 2022 10:53:25

Lowest Band Edge / Full RB



Date: 29 JAN 2022 10:43:21

Highest Band Edge / Full RB

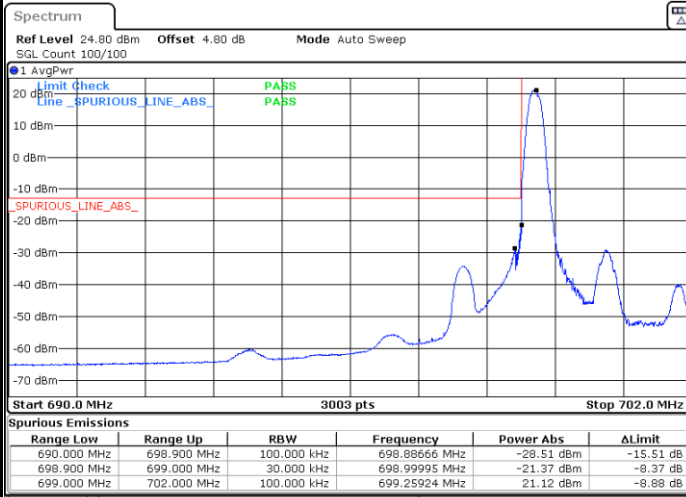


Date: 29 JAN 2022 10:52:04



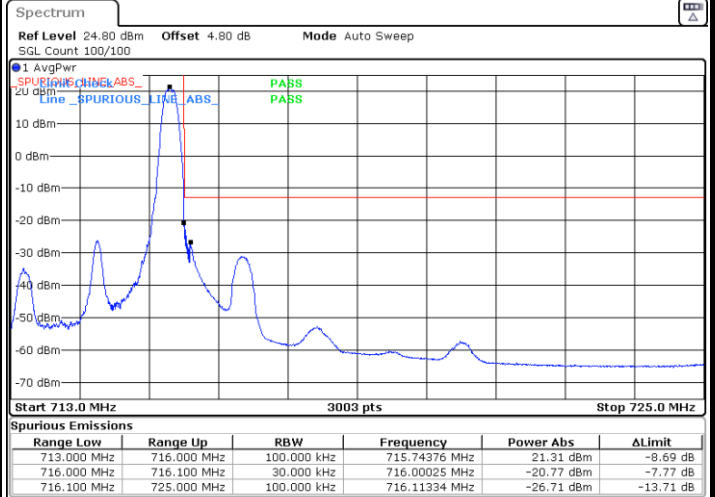
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



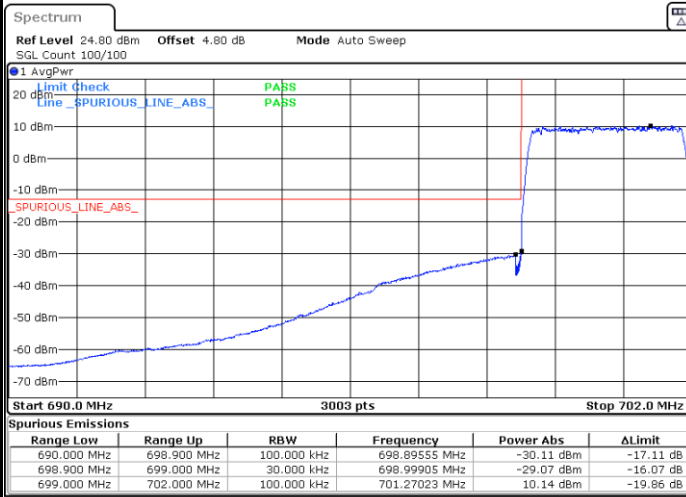
Date: 29 JAN 2022 11:59:12

Highest Band Edge / 1 RB



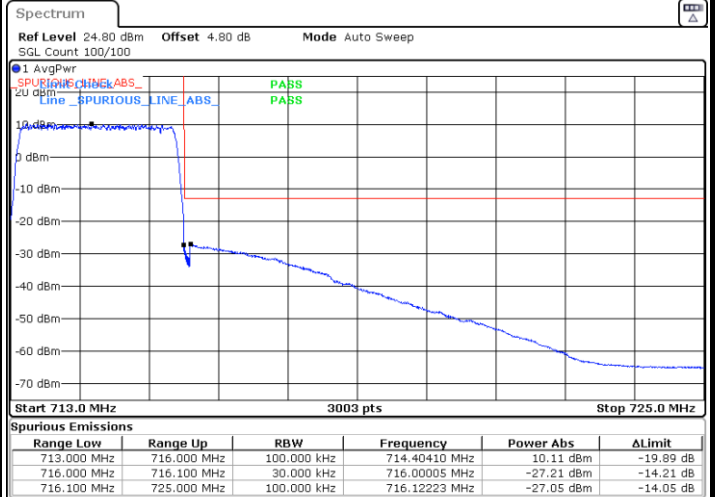
Date: 29 JAN 2022 12:03:13

Lowest Band Edge / Full RB



Date: 29 JAN 2022 12:00:33

Highest Band Edge / Full RB

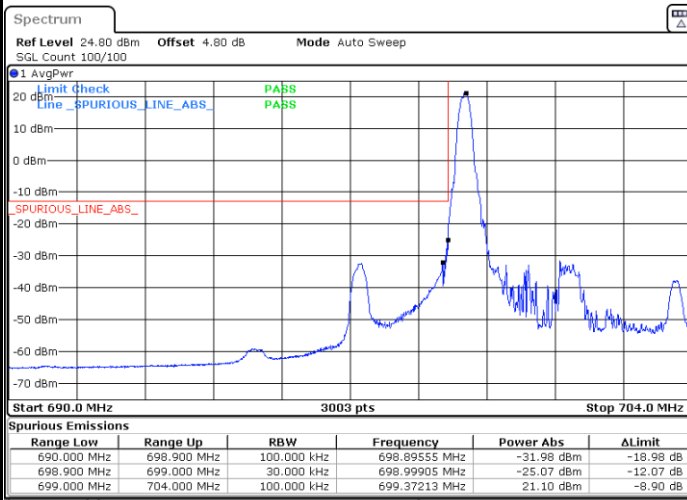


Date: 29 JAN 2022 12:01:53



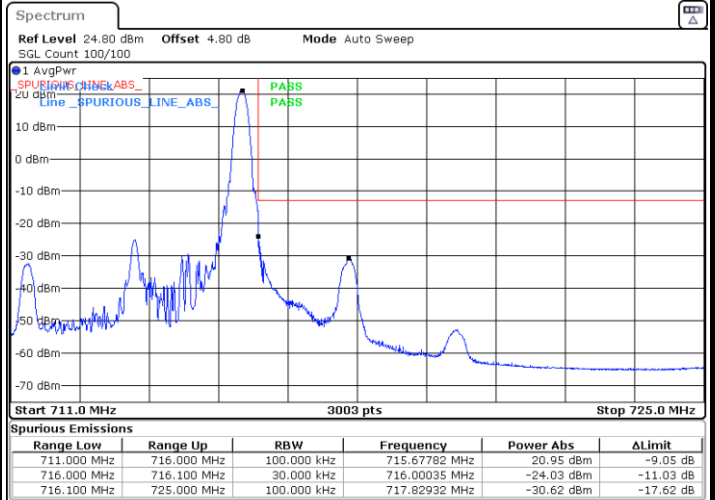
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



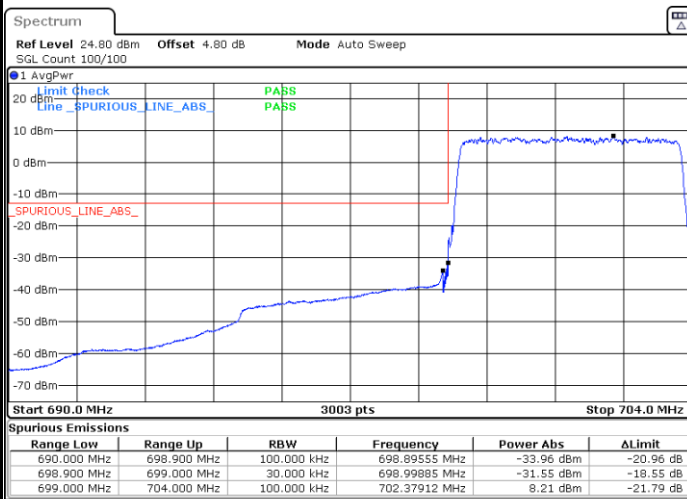
Date: 29 JAN 2022 11:01:49

Highest Band Edge / 1 RB



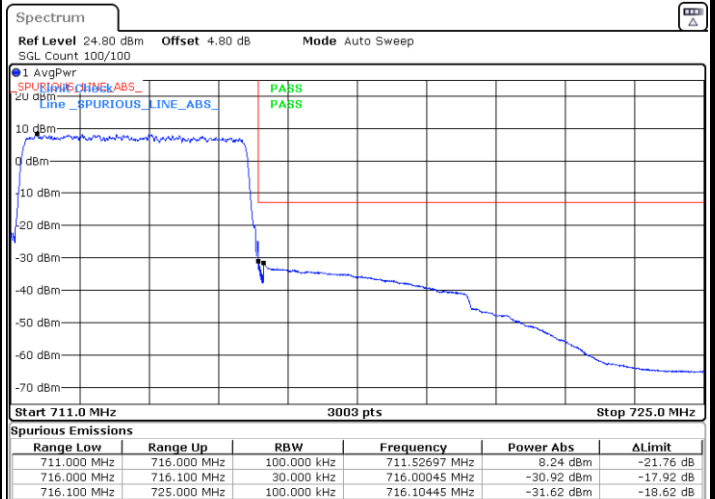
Date: 29 JAN 2022 11:09:11

Lowest Band Edge / Full RB



Date: 29 JAN 2022 10:57:48

Highest Band Edge / Full RB

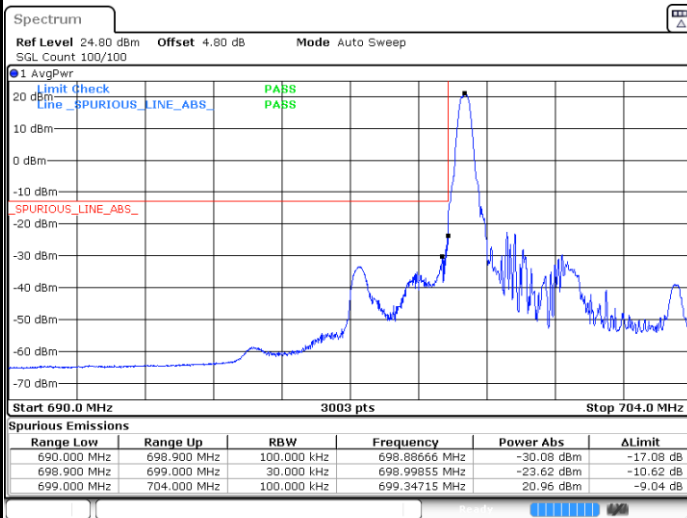


Date: 29 JAN 2022 11:06:30



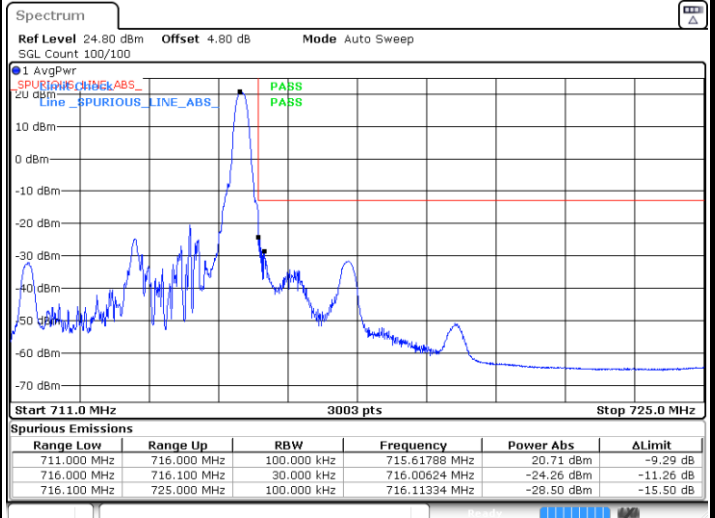
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



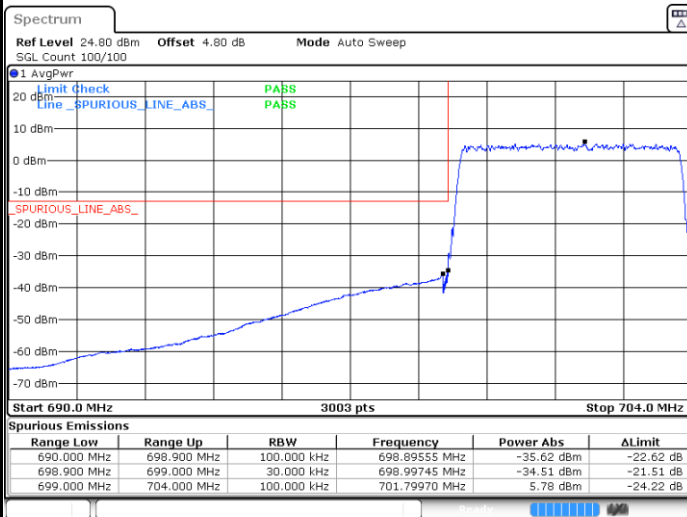
Date: 29 JAN 2022 11:00:29

Highest Band Edge / 1 RB



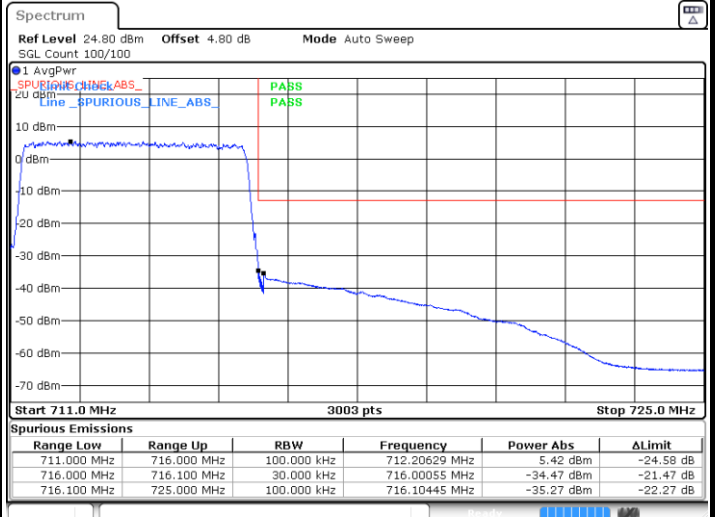
Date: 29 JAN 2022 11:10:31

Lowest Band Edge / Full RB



Date: 29 JAN 2022 10:59:08

Highest Band Edge / Full RB

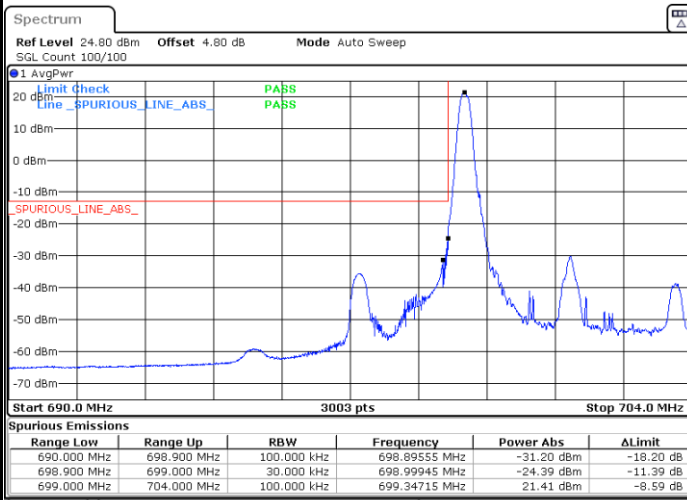


Date: 29 JAN 2022 11:07:51



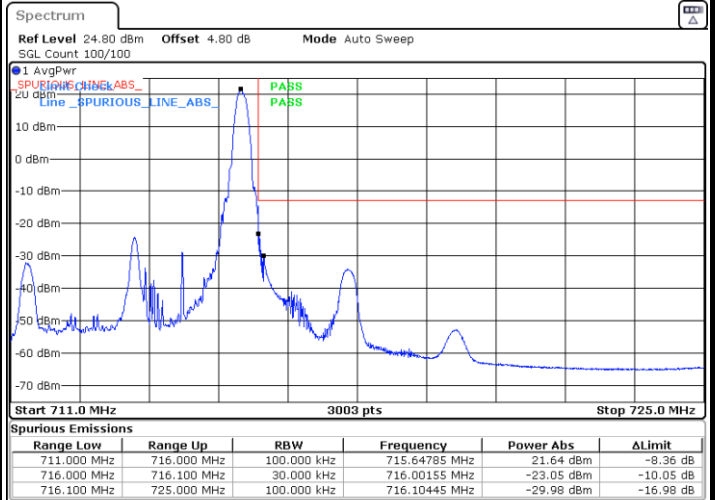
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



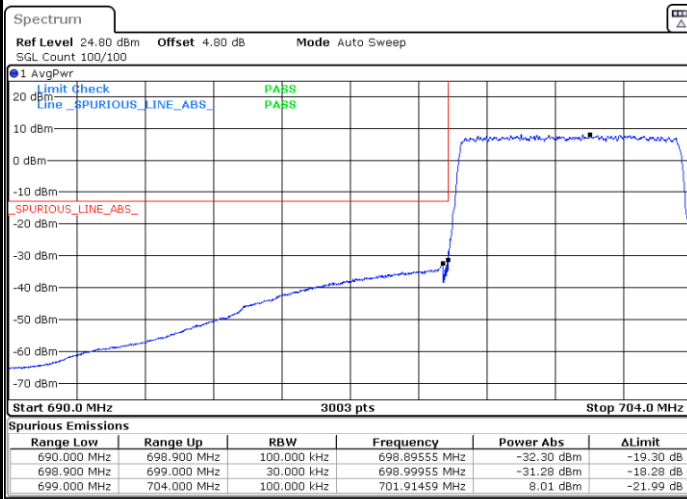
Date: 29 JAN 2022 12:04:38

Highest Band Edge / 1 RB



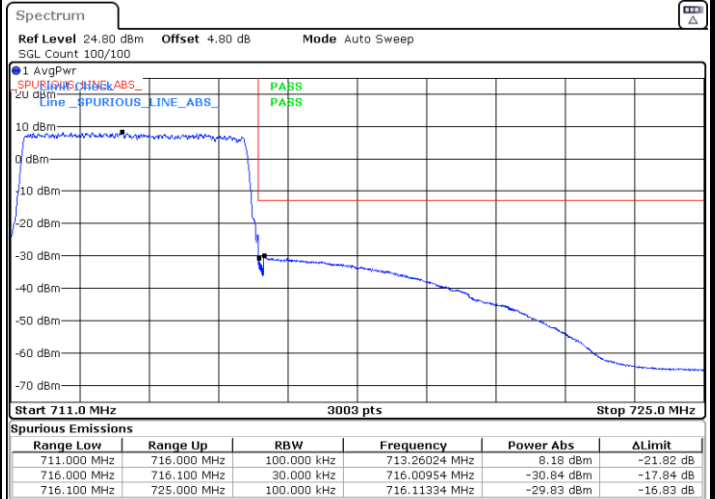
Date: 29 JAN 2022 12:08:39

Lowest Band Edge / Full RB



Date: 29 JAN 2022 12:05:58

Highest Band Edge / Full RB

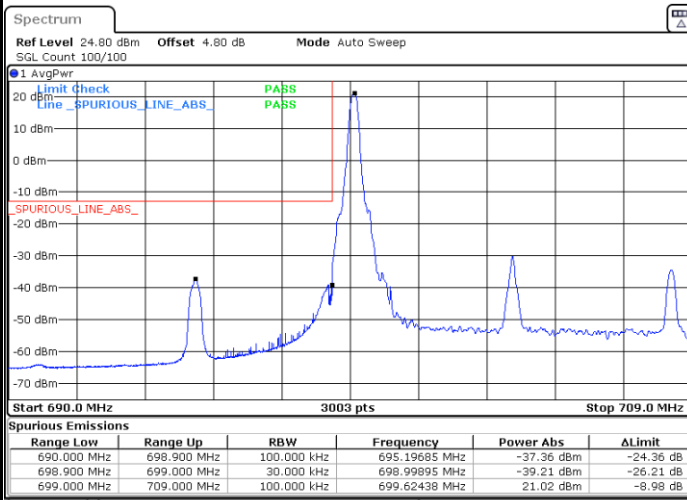


Date: 29 JAN 2022 12:07:18



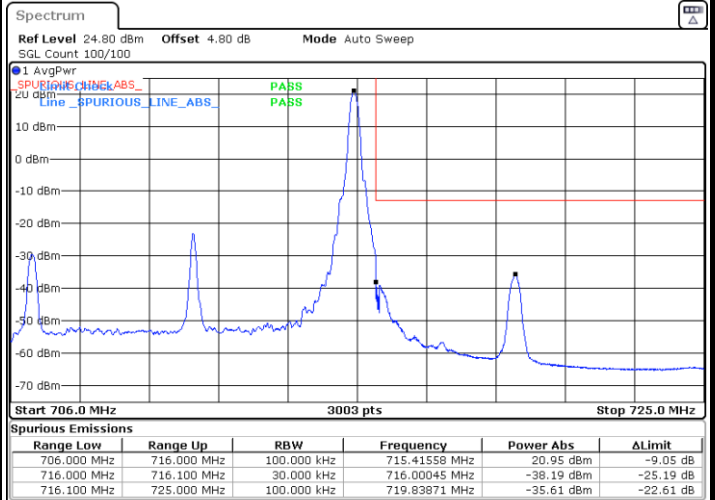
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



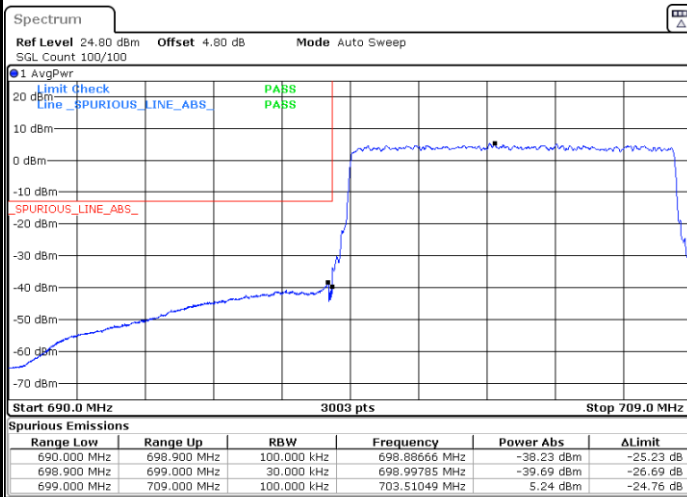
Date: 29 JAN 2022 11:16:14

Highest Band Edge / 1 RB



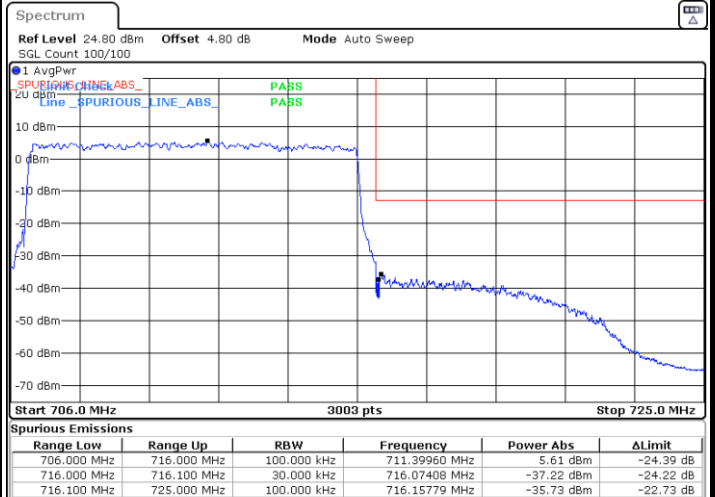
Date: 29 JAN 2022 11:23:37

Lowest Band Edge / Full RB



Date: 29 JAN 2022 11:13:34

Highest Band Edge / Full RB

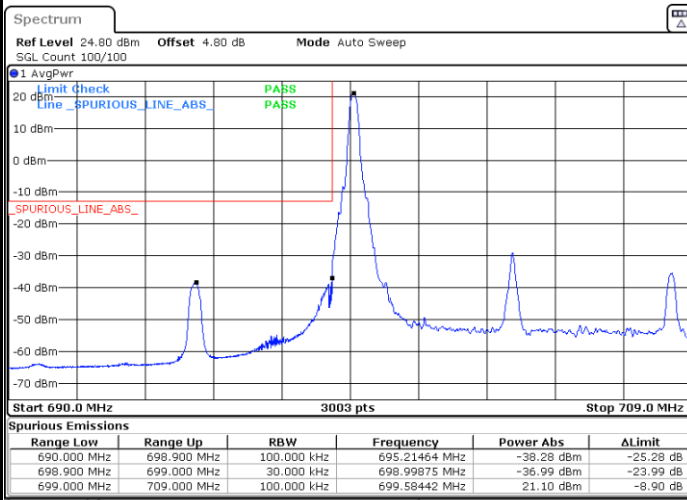


Date: 29 JAN 2022 11:20:56



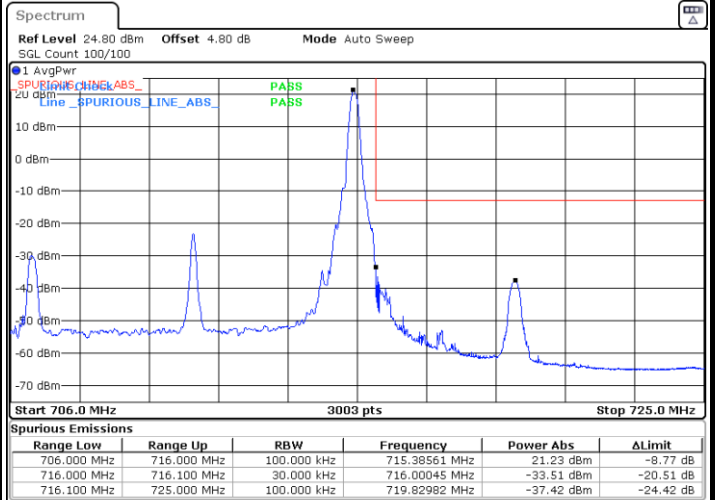
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



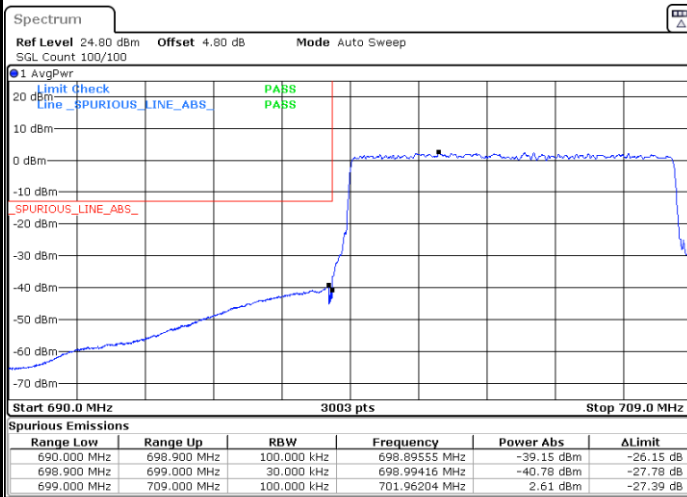
Date: 29 JAN 2022 11:14:54

Highest Band Edge / 1 RB



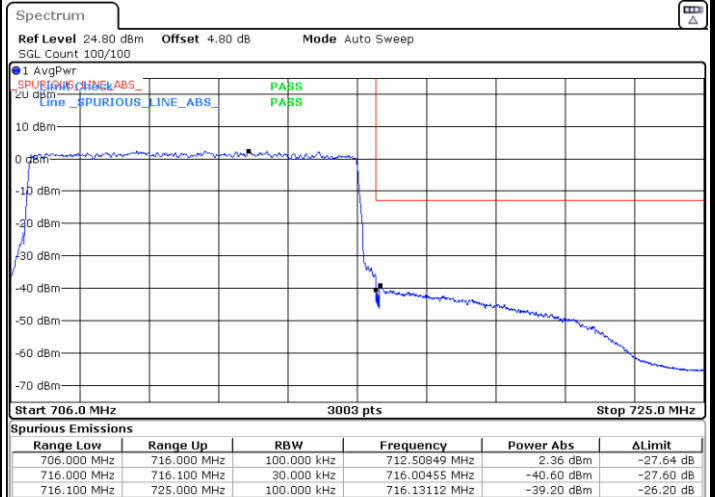
Date: 29 JAN 2022 11:22:16

Lowest Band Edge / Full RB



Date: 29 JAN 2022 12:18:09

Highest Band Edge / Full RB

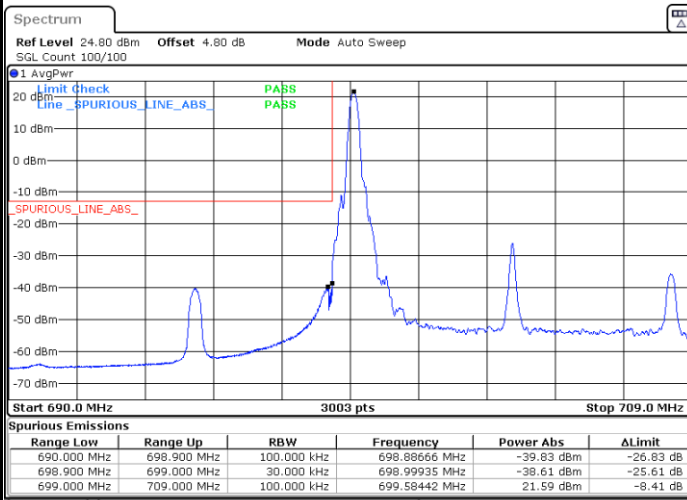


Date: 29 JAN 2022 12:23:31



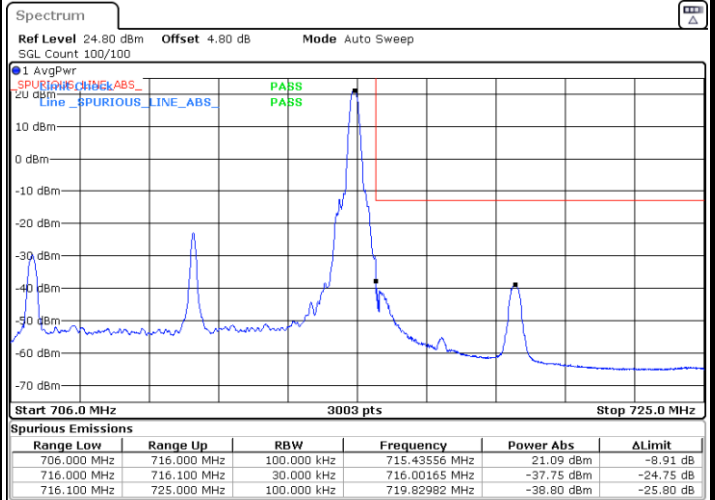
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



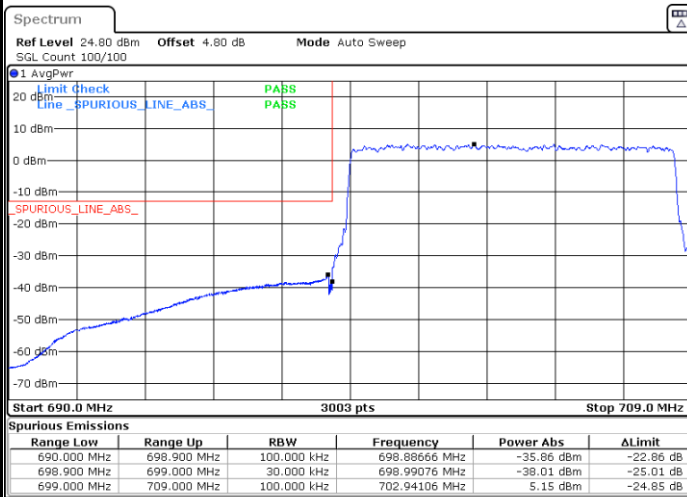
Date: 29 JAN 2022 12:10:01

Highest Band Edge / 1 RB



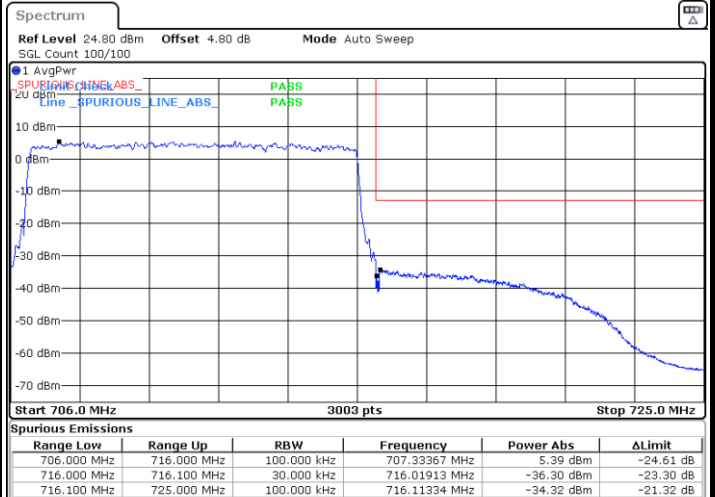
Date: 29 JAN 2022 12:20:50

Lowest Band Edge / Full RB



Date: 29 JAN 2022 12:19:30

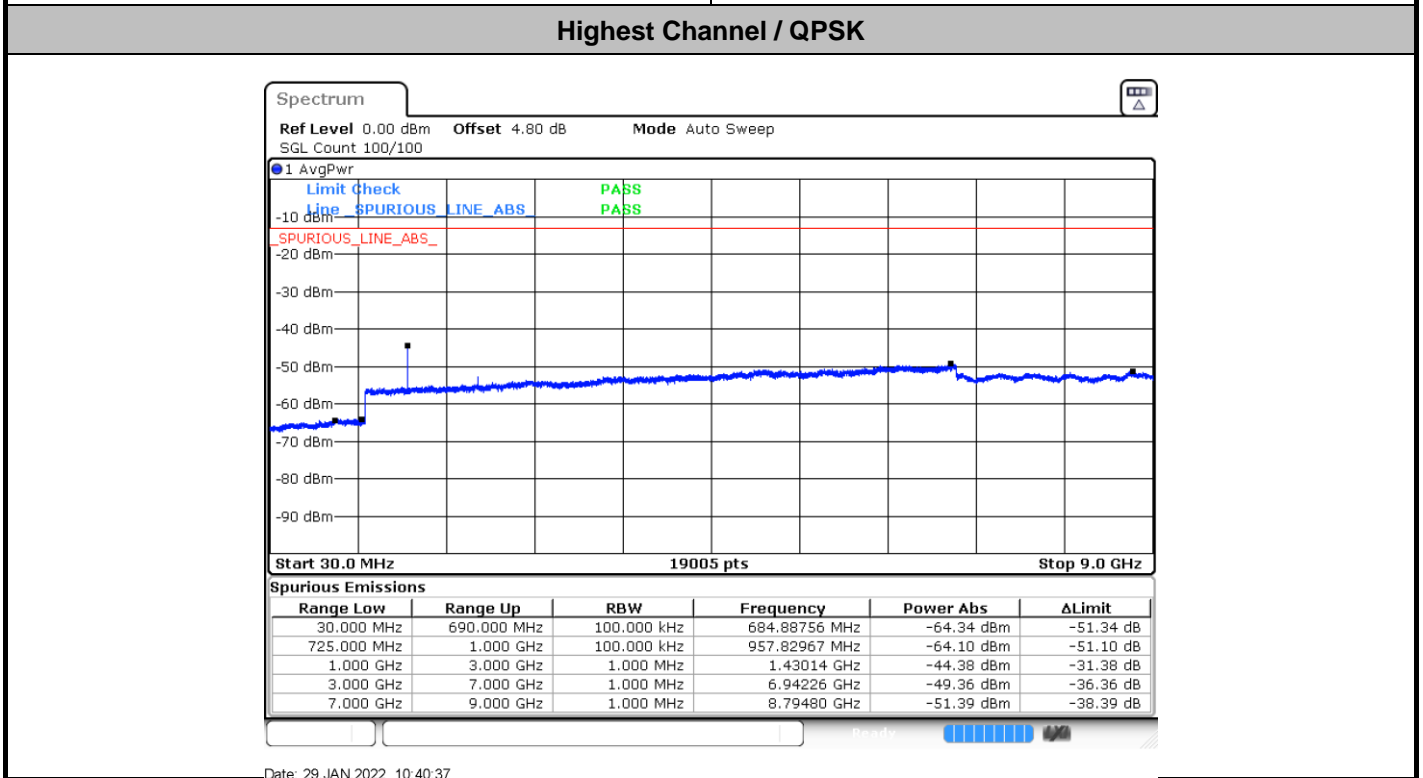
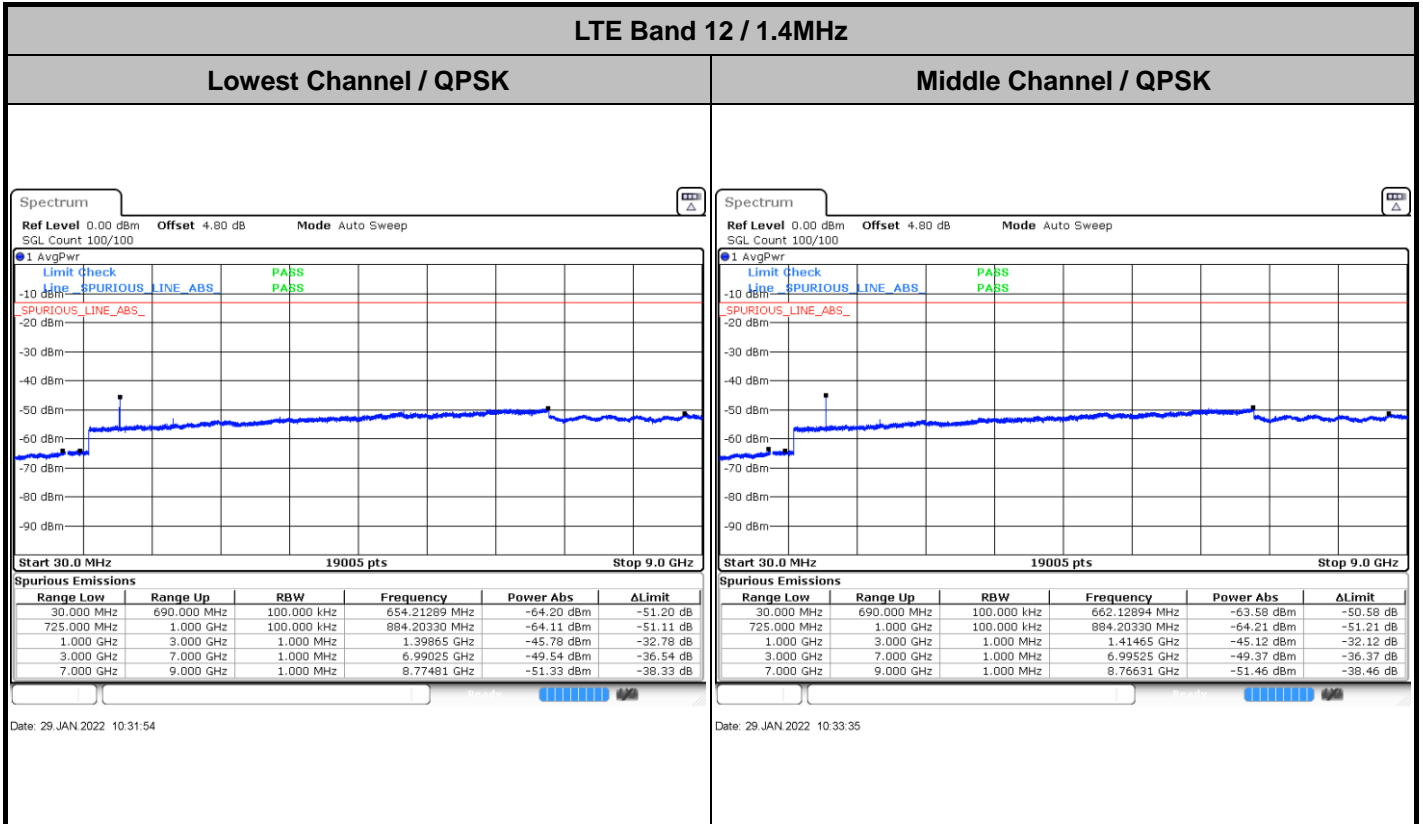
Highest Band Edge / Full RB



Date: 29 JAN 2022 12:22:10



Conducted Spurious Emission

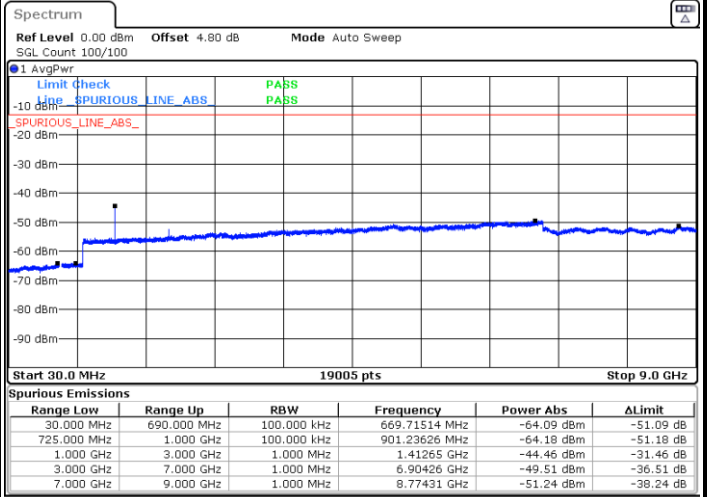
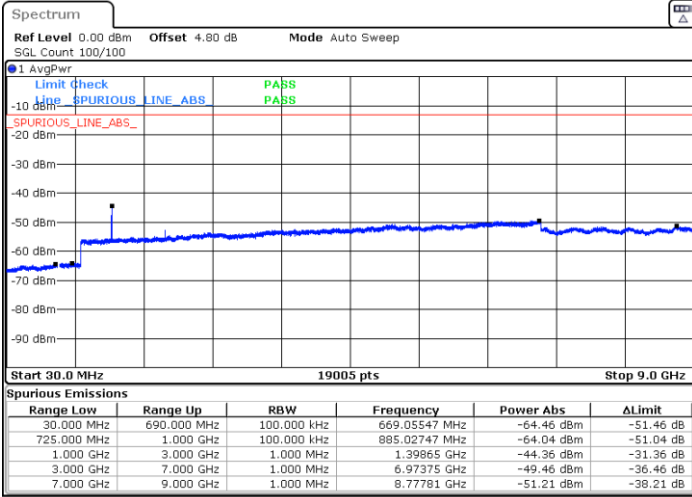




LTE Band 12 / 3MHz

Lowest Channel / QPSK

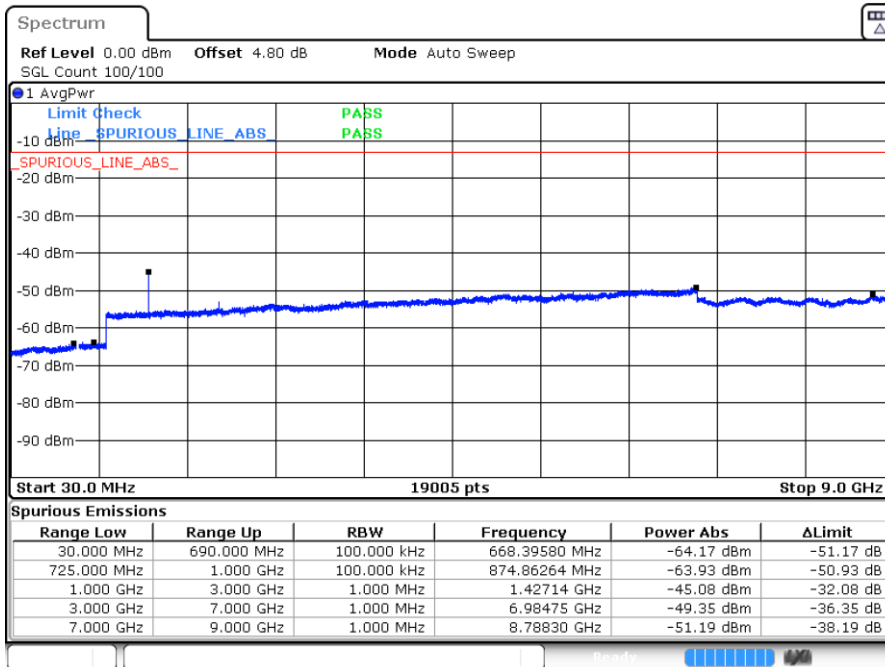
Middle Channel / QPSK



Date: 29 JAN 2022 10:47:43

Date: 29 JAN 2022 10:49:24

Highest Channel / QPSK

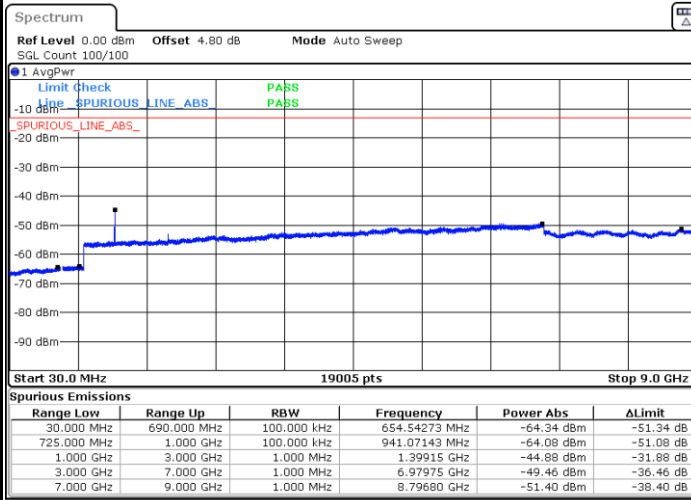


Date: 29 JAN 2022 10:56:26



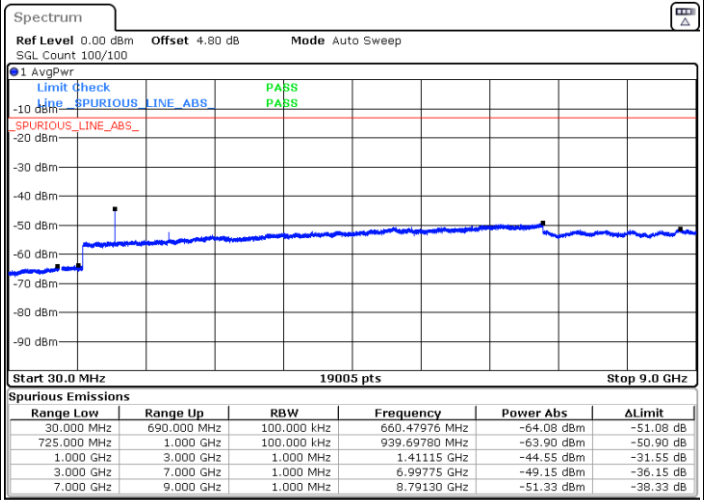
LTE Band 12 / 5MHz

Lowest Channel / QPSK



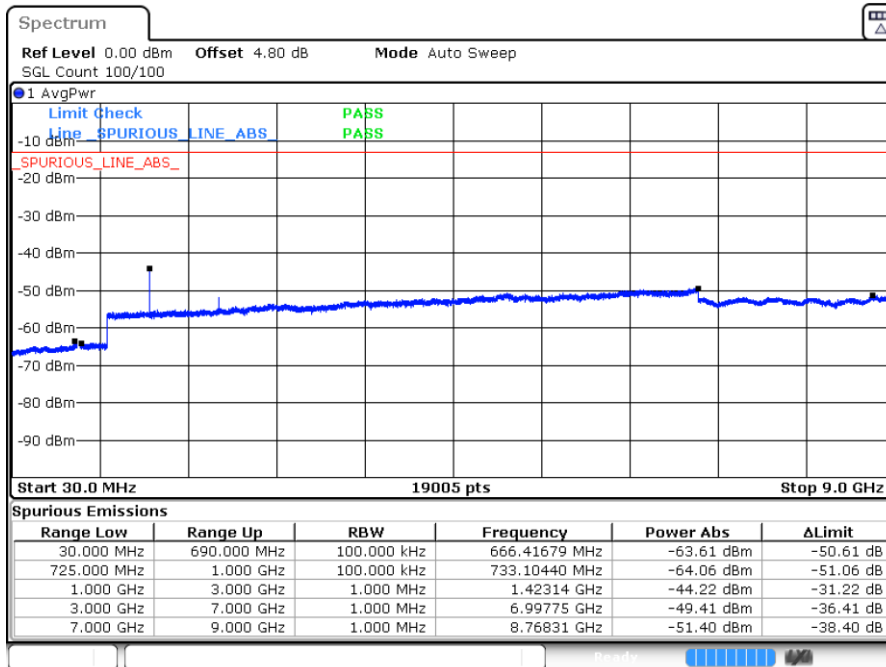
Date: 29 JAN 2022 11:03:29

Middle Channel / QPSK



Date: 29 JAN 2022 11:05:10

Highest Channel / QPSK



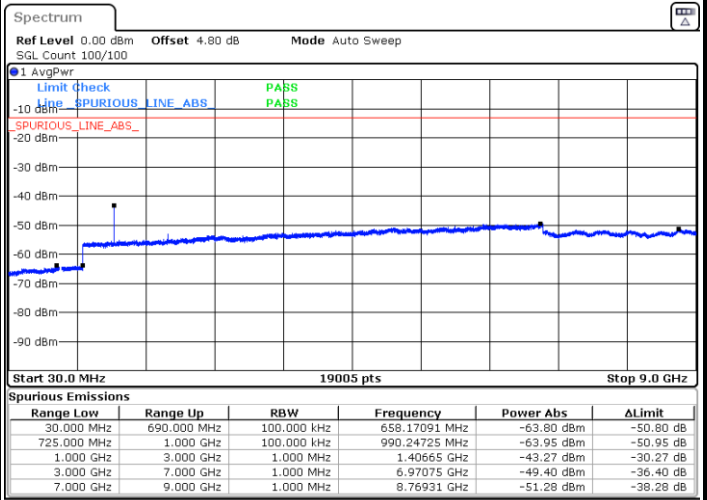
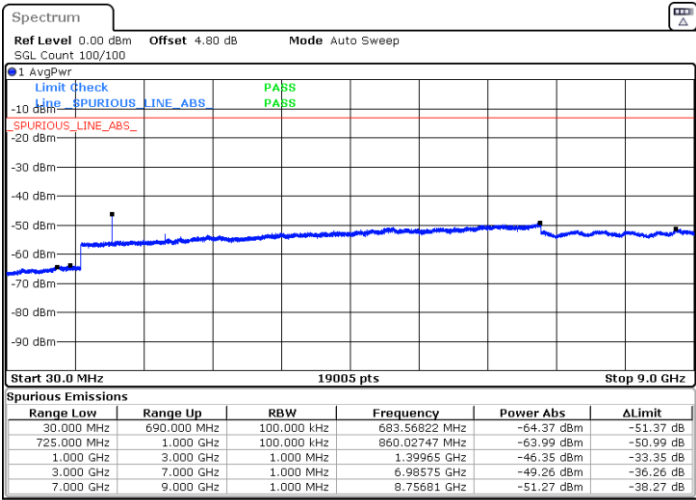
Date: 29 JAN 2022 11:12:12



LTE Band 12 / 10MHz

Lowest Channel / QPSK

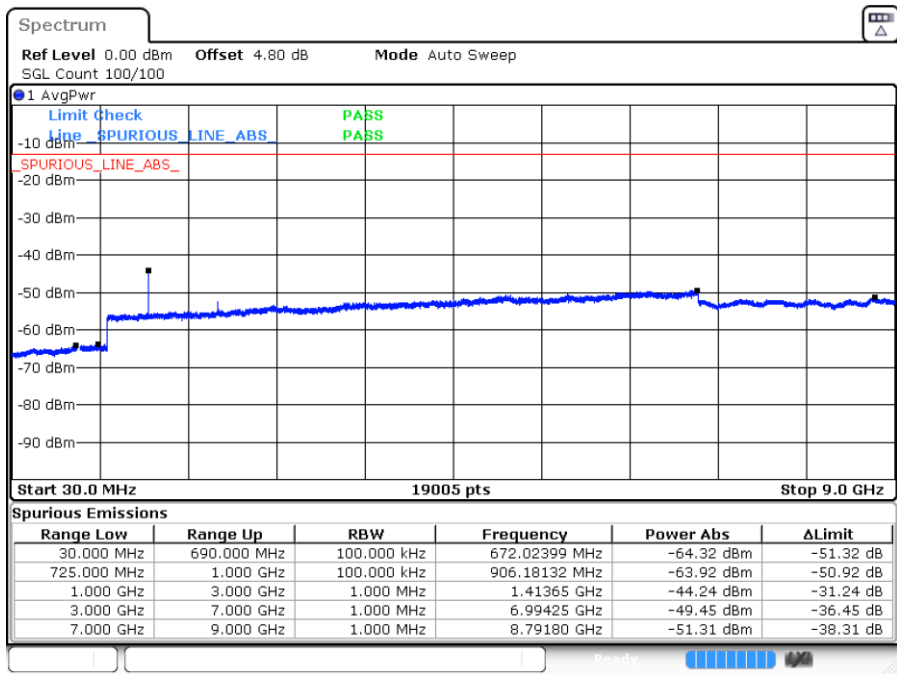
Middle Channel / QPSK



Date: 29 JAN 2022 11:17:55

Date: 29 JAN 2022 11:19:36

Highest Channel / QPSK



Date: 29 JAN 2022 11:25:17



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	0.0016	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0001	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.000	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0010	

Note:

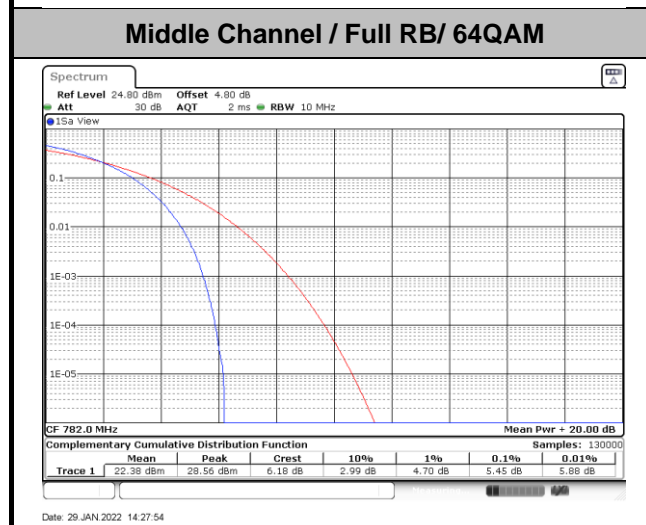
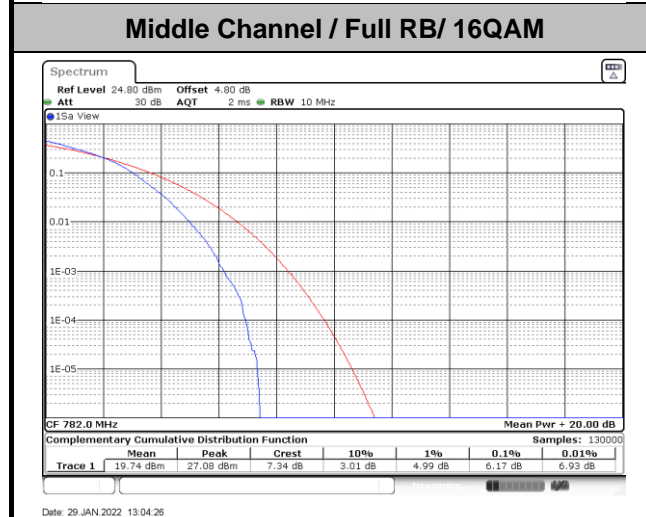
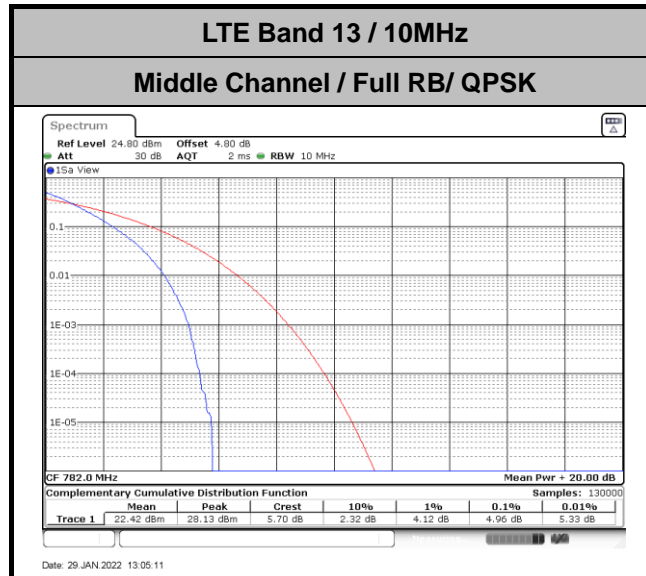
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

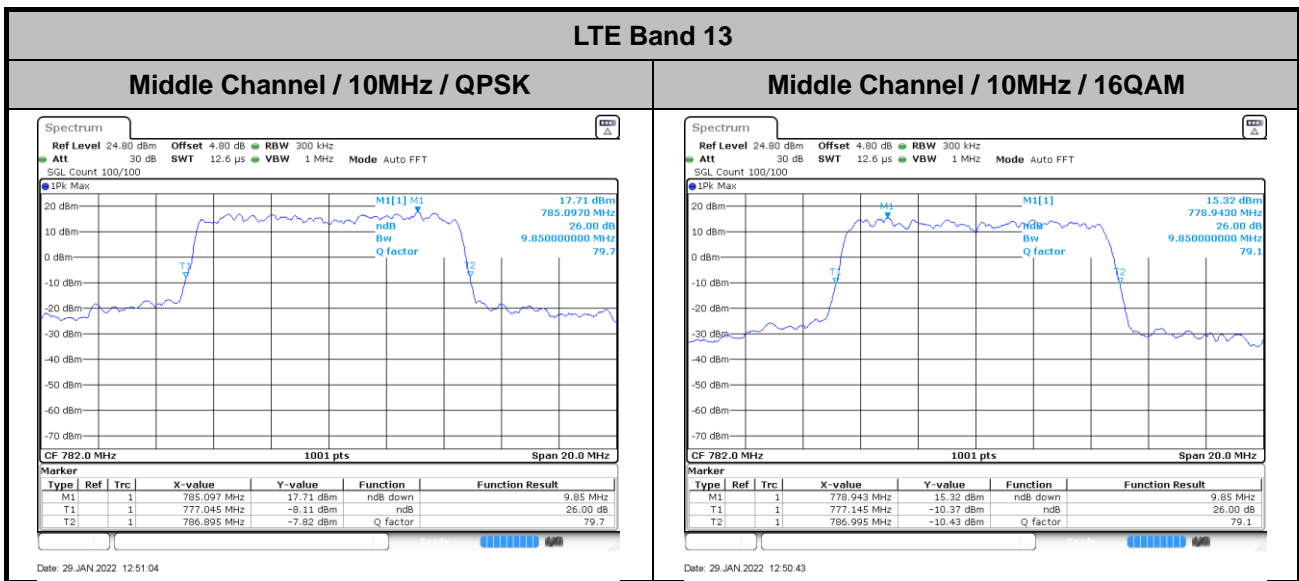
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	6.17	5.45	PASS





26dB Bandwidth

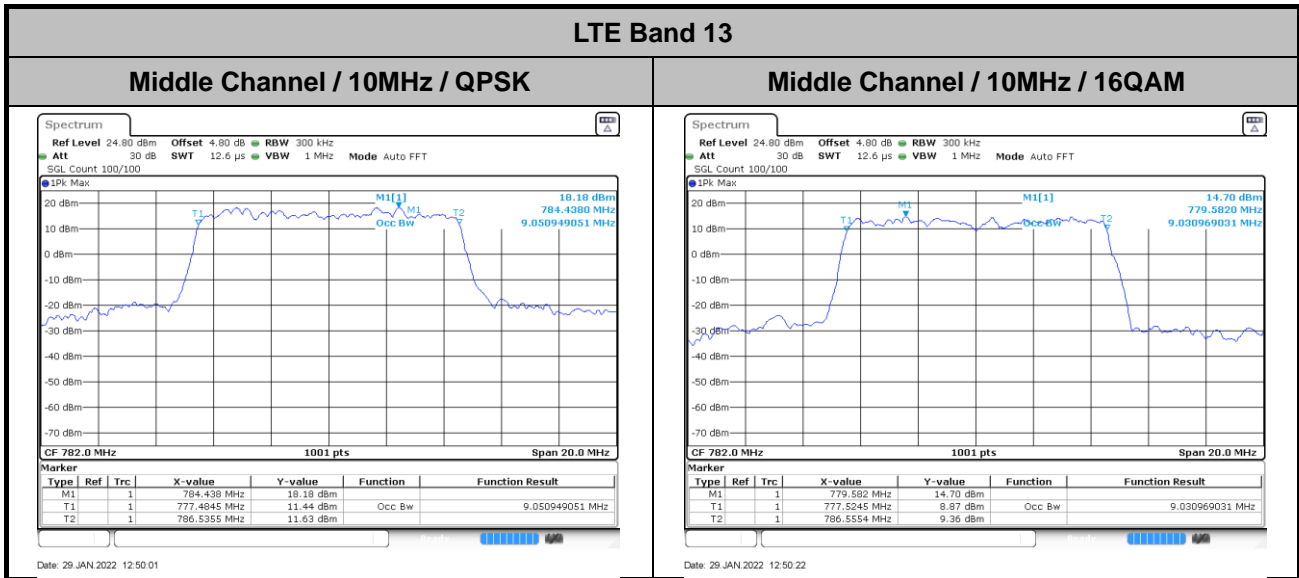
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.85	9.85





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	9.03

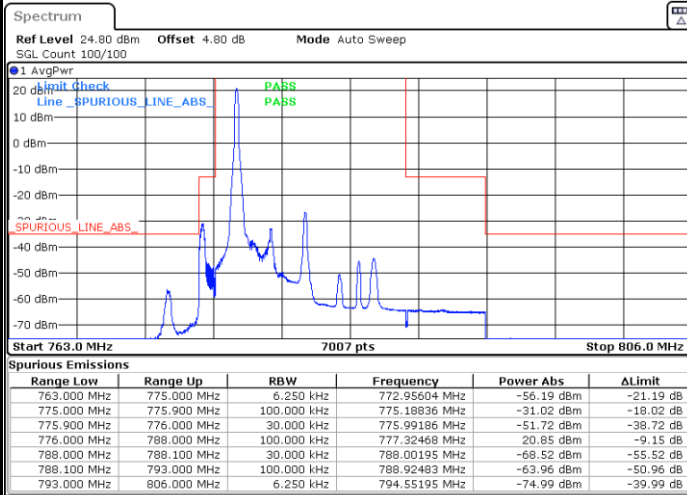




Conducted Band Edge

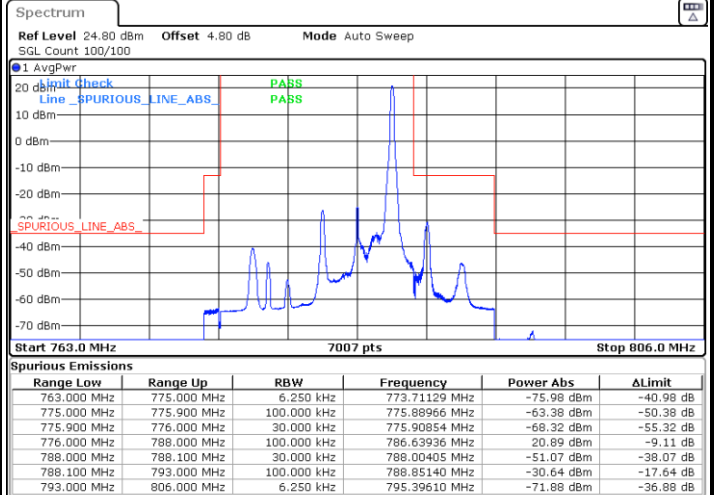
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



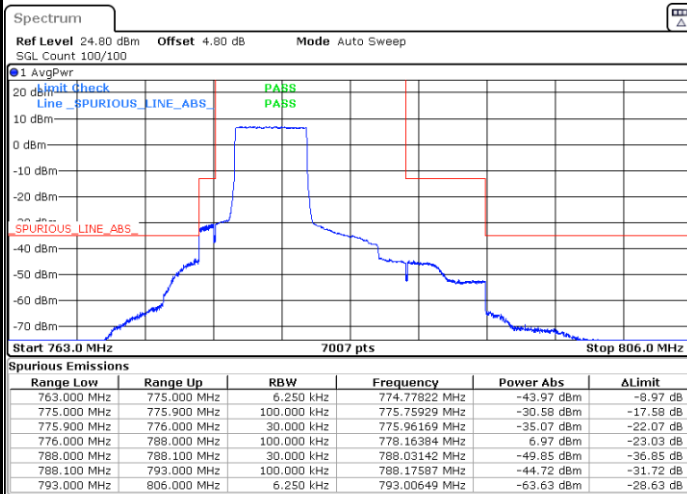
Date: 29 JAN 2022 12:37:15

Highest Band Edge / 1 RB



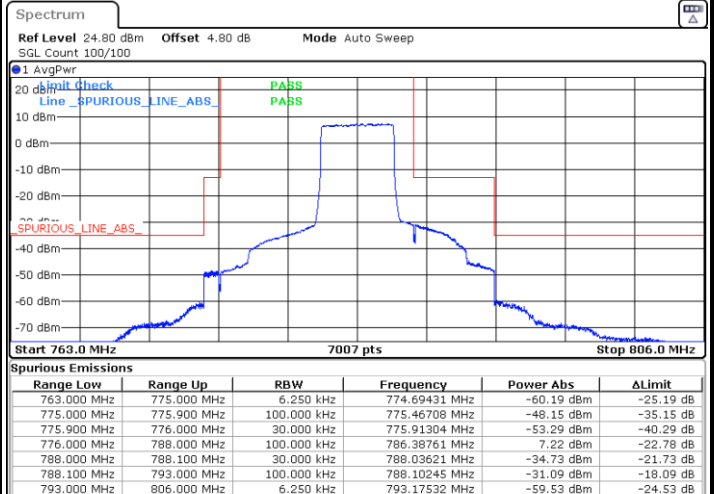
Date: 29 JAN 2022 12:47:58

Lowest Band Edge / Full RB



Date: 29 JAN 2022 12:31:44

Highest Band Edge / Full RB

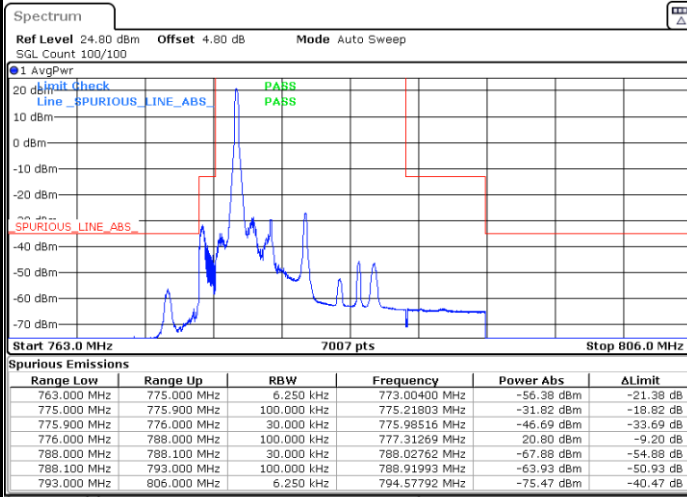


Date: 29 JAN 2022 12:42:26



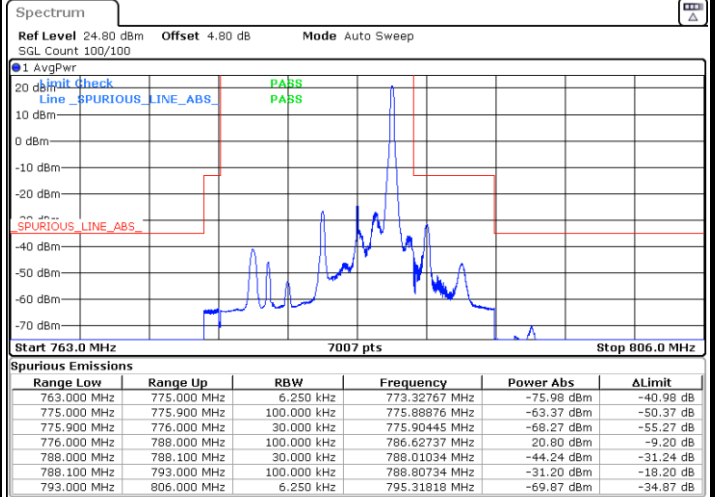
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



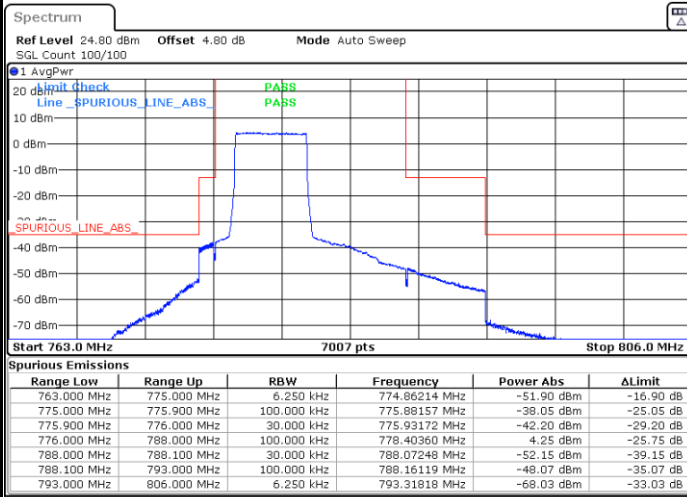
Date: 29 JAN 2022 12:35:25

Highest Band Edge / 1 RB



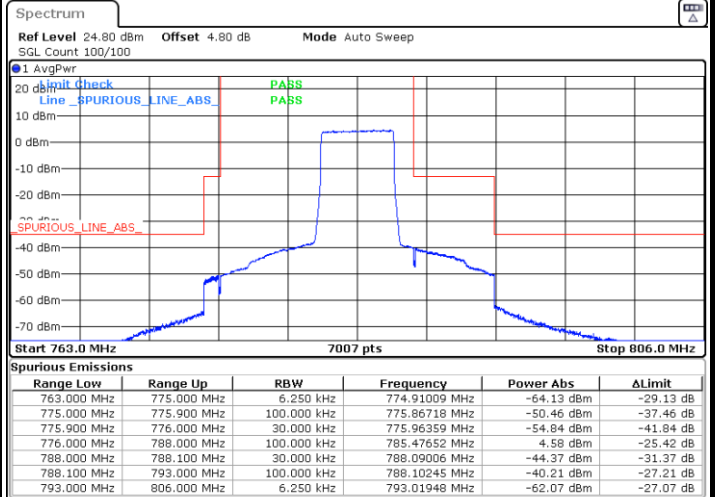
Date: 29 JAN 2022 12:46:07

Lowest Band Edge / Full RB



Date: 29 JAN 2022 12:33:34

Highest Band Edge / Full RB



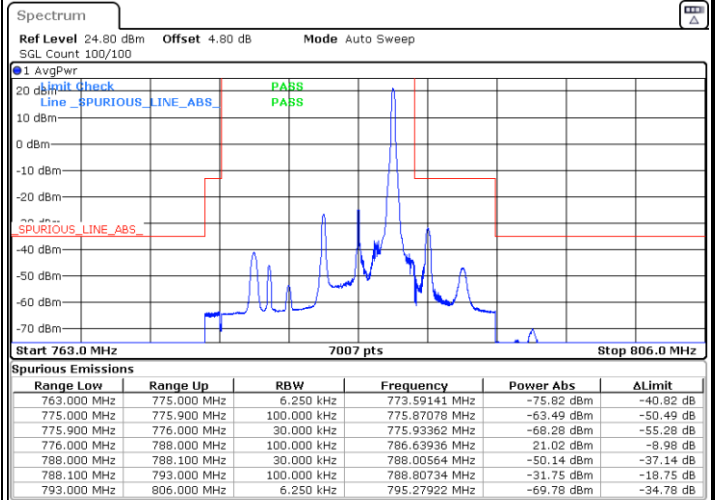
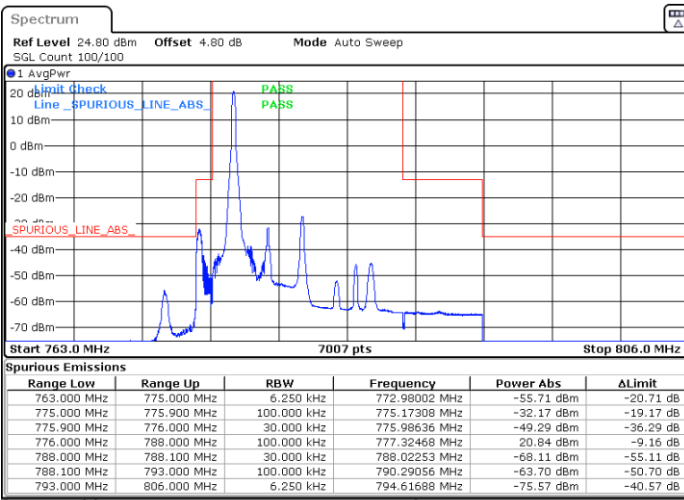
Date: 29 JAN 2022 12:44:16



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

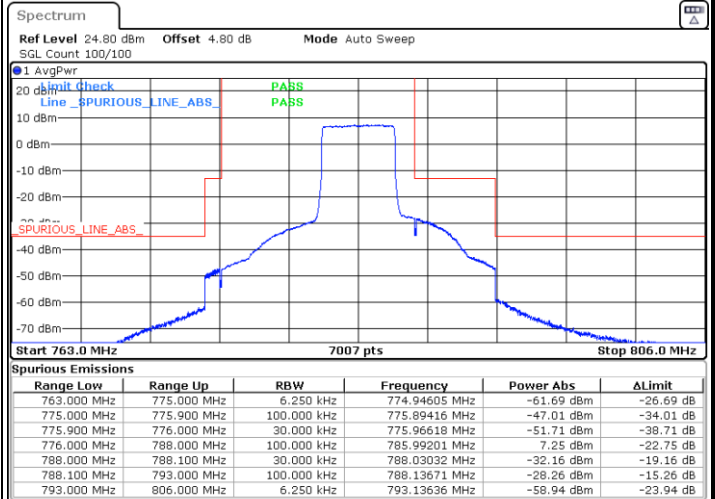
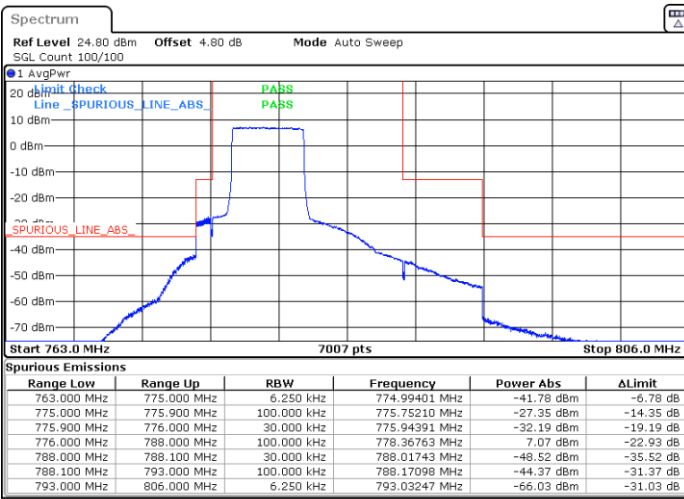


Date: 29 JAN 2022 13:38:23

Date: 29 JAN 2022 13:40:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29 JAN 2022 13:36:33

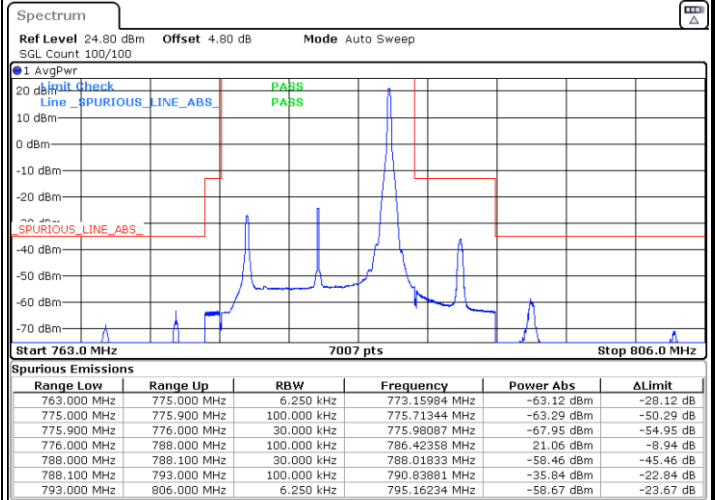
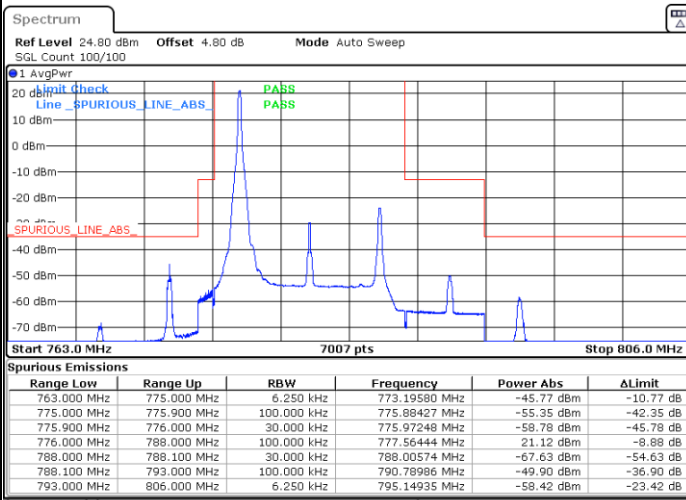
Date: 29 JAN 2022 13:42:04



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

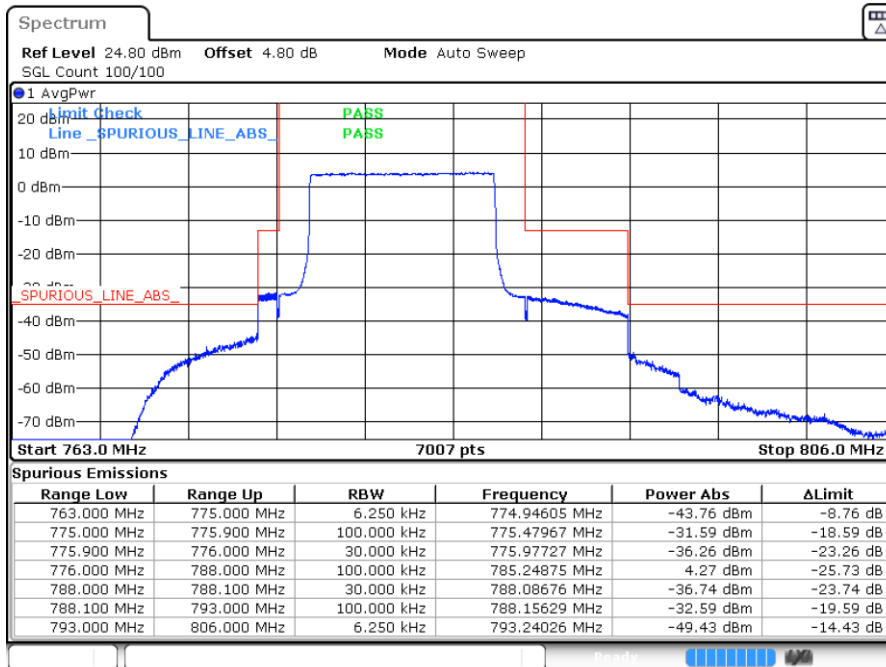
middle Band Edge / 1 RB



Date: 29 JAN 2022 12:58:22

Date: 29 JAN 2022 13:00:12

Middle Band Edge / Full RB



Date: 29 JAN 2022 12:52:53