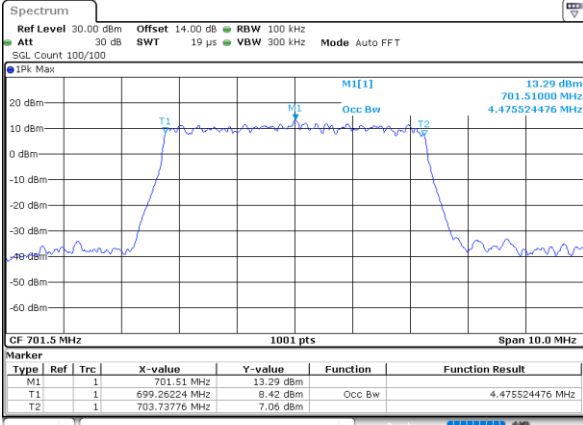




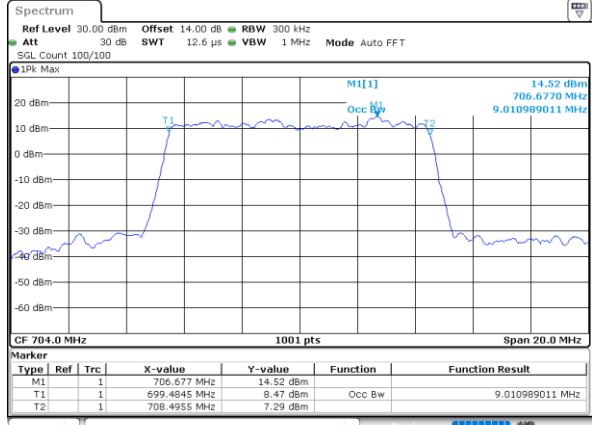
LTE Band 12

Lowest Channel / 5MHz / 64QAM



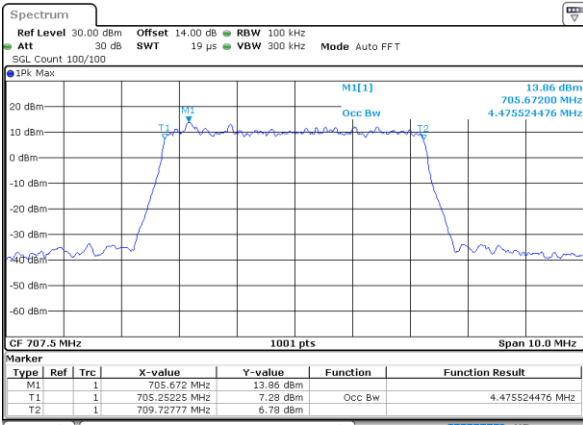
Date: 1.MAR.2023 02:01:22

Lowest Channel / 10MHz / 64QAM



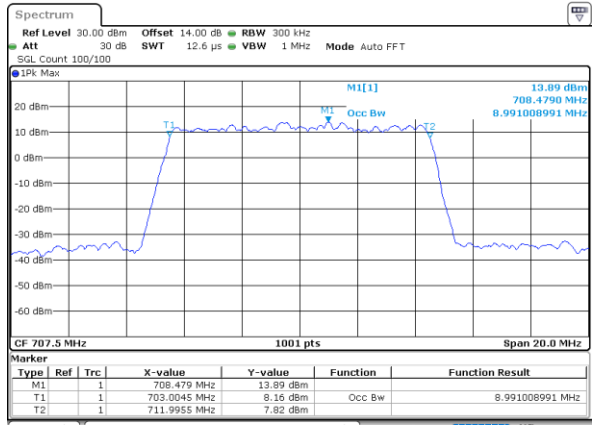
Date: 1.MAR.2023 03:03:49

Middle Channel / 5MHz / 64QAM



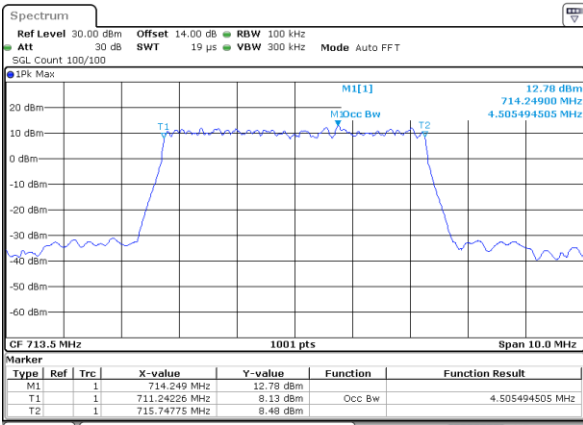
Date: 1.MAR.2023 02:06:12

Middle Channel / 10MHz / 64QAM



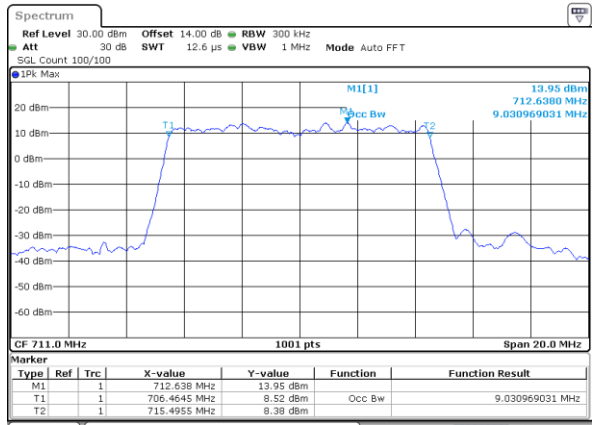
Date: 1.MAR.2023 03:08:36

Highest Channel / 5MHz / 64QAM



Date: 1.MAR.2023 02:08:32

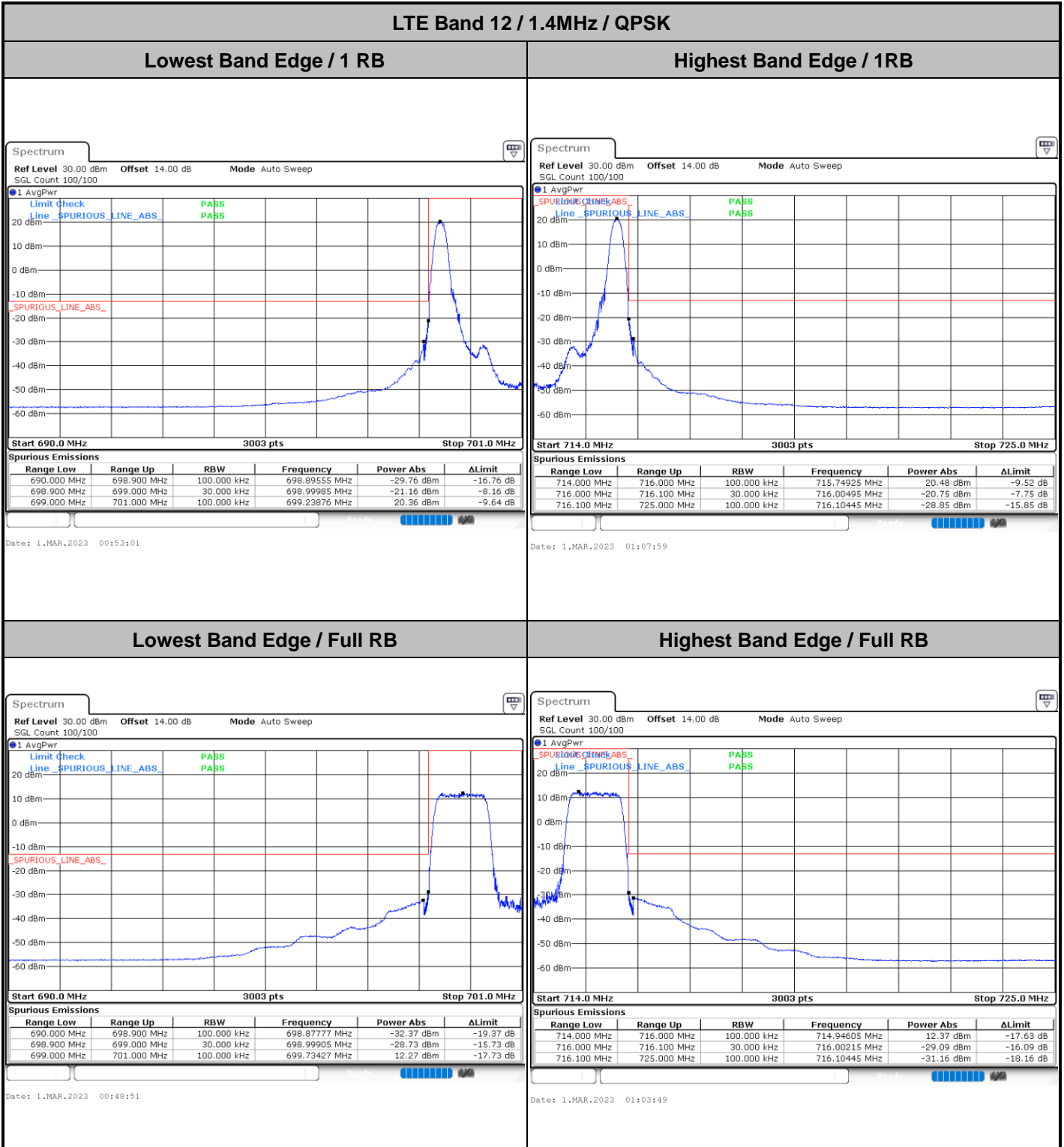
Highest Channel / 10MHz / 64QAM



Date: 1.MAR.2023 03:10:57



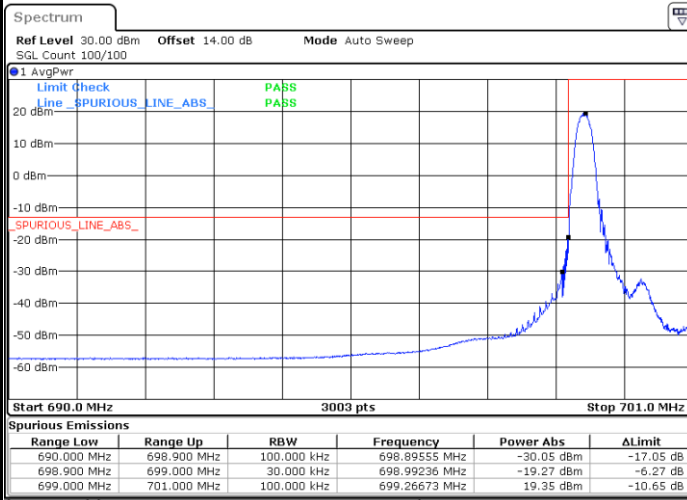
# Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



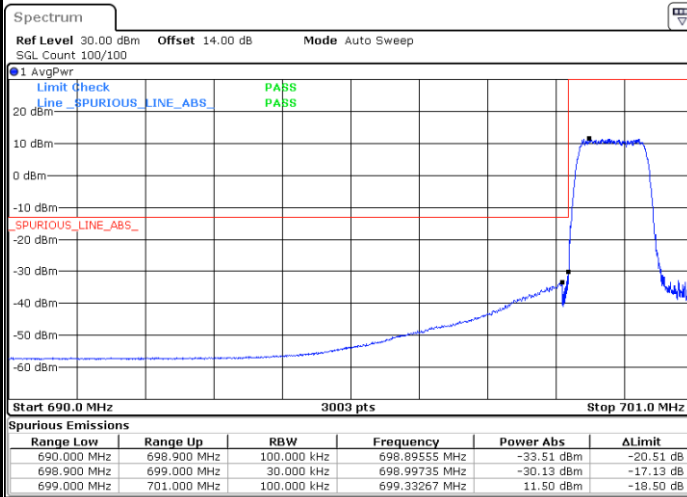
Date: 1.MAR.2023 00:51:38

Highest Band Edge / 1 RB



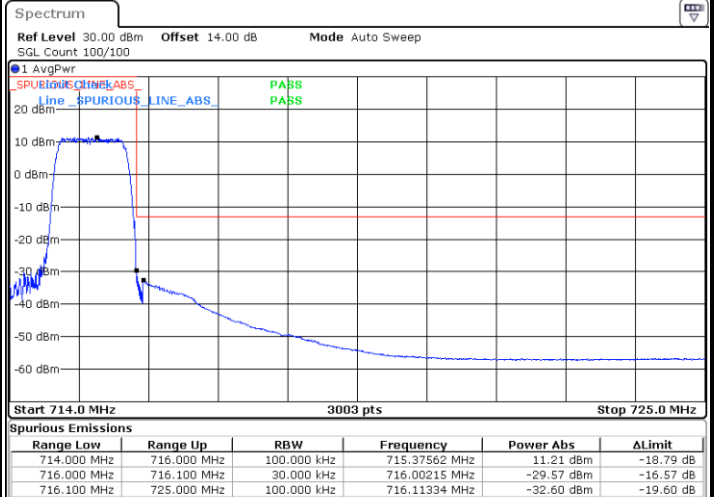
Date: 1.MAR.2023 01:06:36

Lowest Band Edge / Full RB



Date: 1.MAR.2023 00:50:14

Highest Band Edge / Full RB



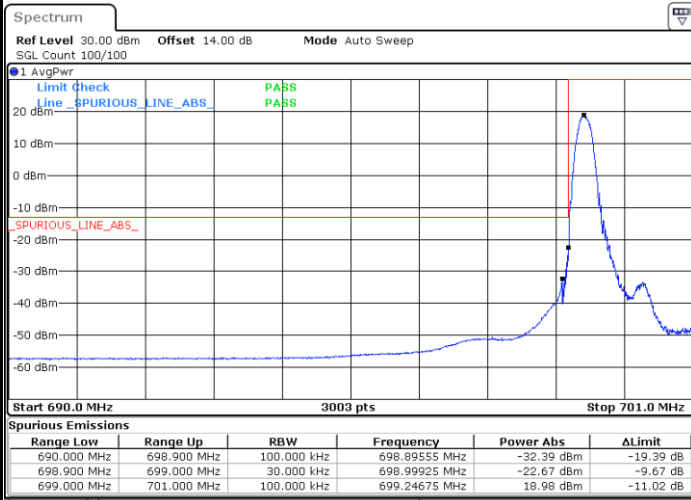
Date: 1.MAR.2023 01:05:12



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

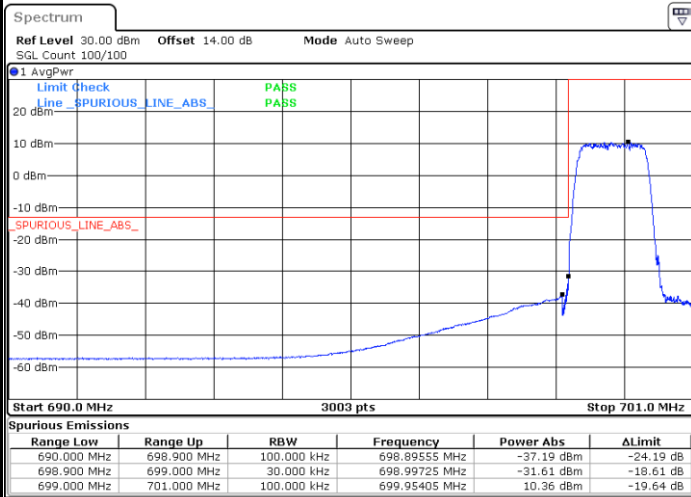


Date: 1.MAR.2023 01:14:41

Date: 1.MAR.2023 01:21:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



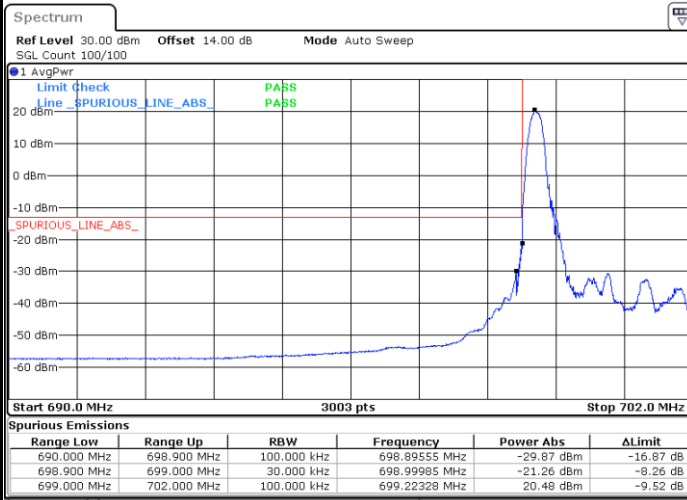
Date: 1.MAR.2023 01:13:18

Date: 1.MAR.2023 01:20:28



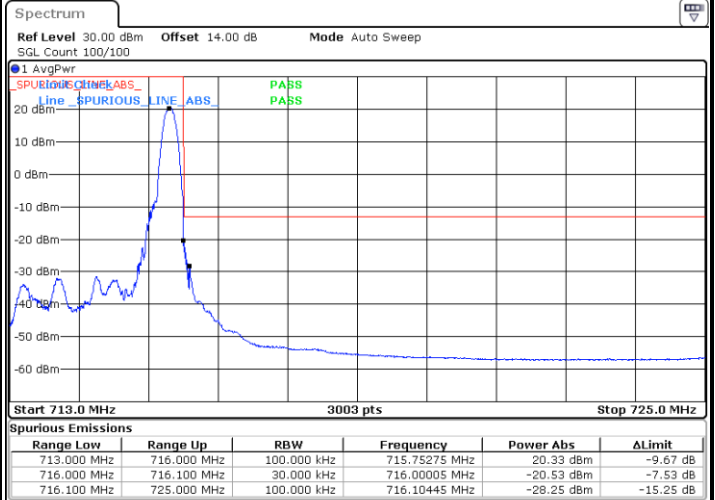
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



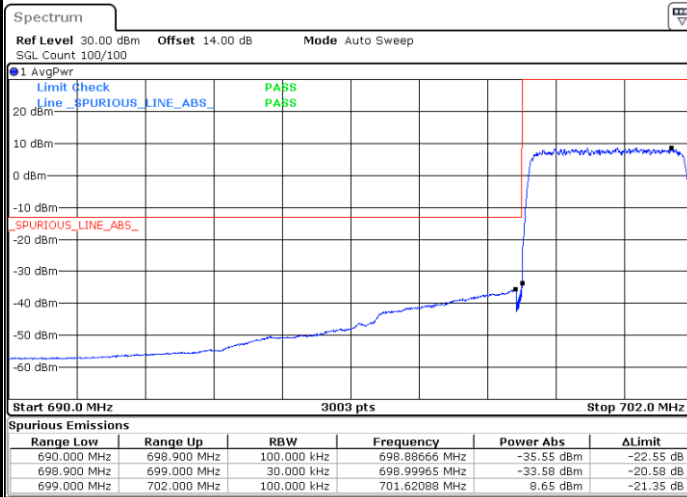
Date: 1.MAR.2023 01:30:26

Highest Band Edge / 1 RB



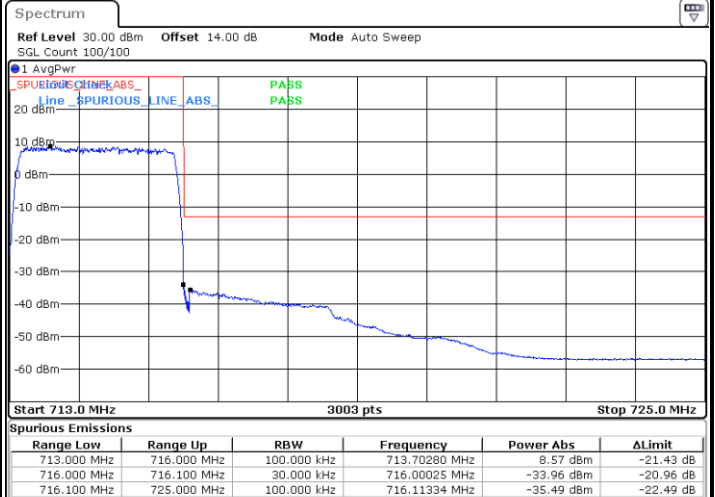
Date: 1.MAR.2023 01:45:21

Lowest Band Edge / Full RB



Date: 1.MAR.2023 01:26:16

Highest Band Edge / Full RB

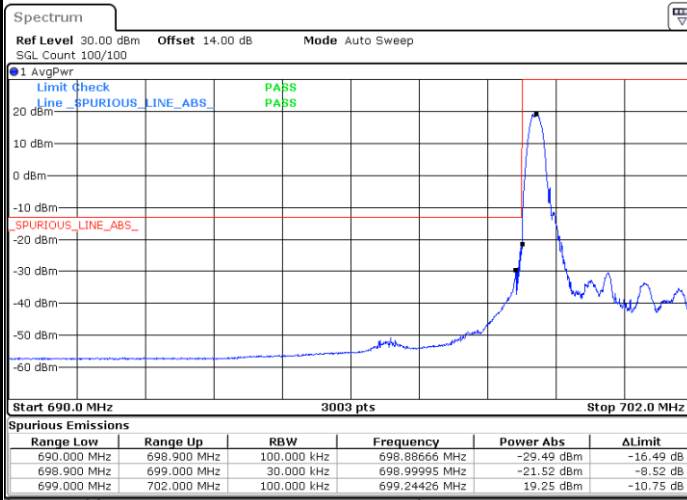


Date: 1.MAR.2023 01:41:12



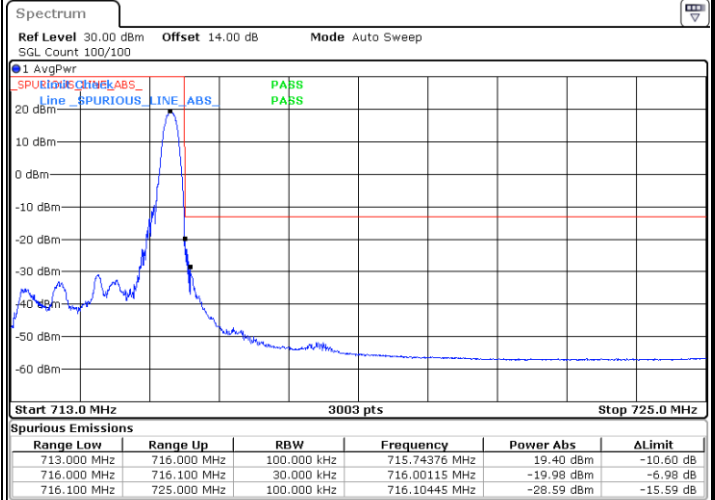
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



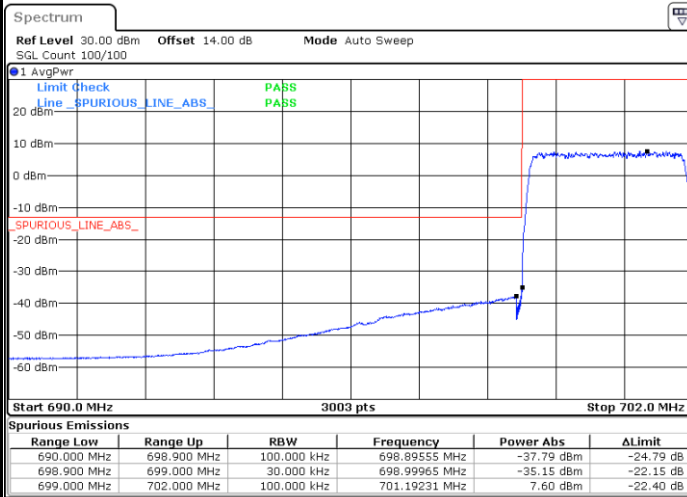
Date: 1.MAR.2023 01:29:02

Highest Band Edge / 1 RB



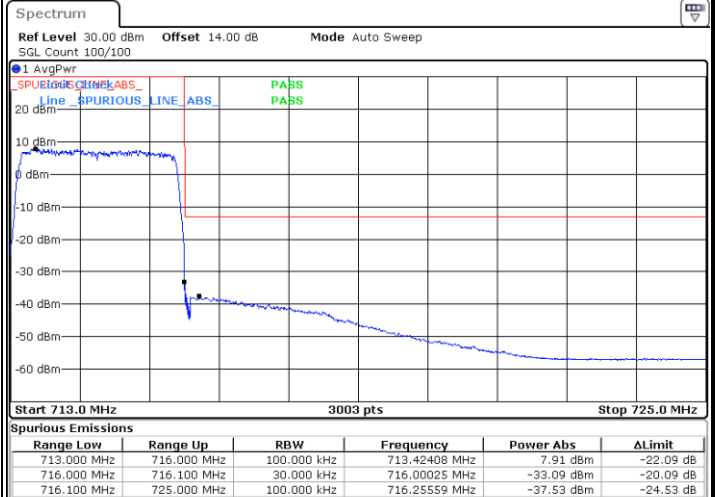
Date: 1.MAR.2023 01:43:58

Lowest Band Edge / Full RB



Date: 1.MAR.2023 01:27:39

Highest Band Edge / Full RB

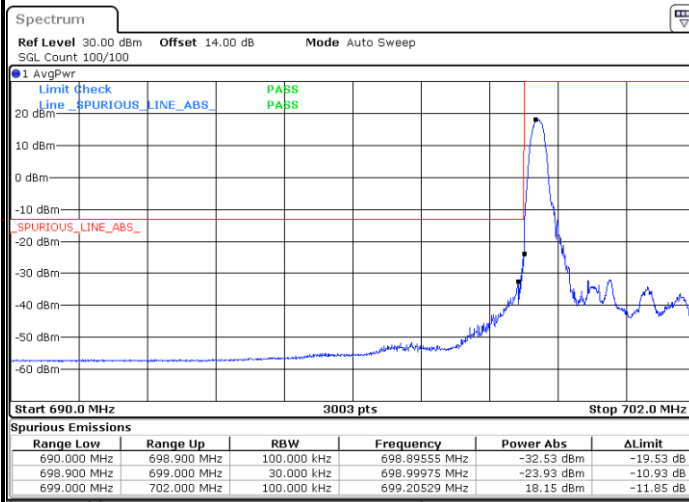


Date: 1.MAR.2023 01:42:34



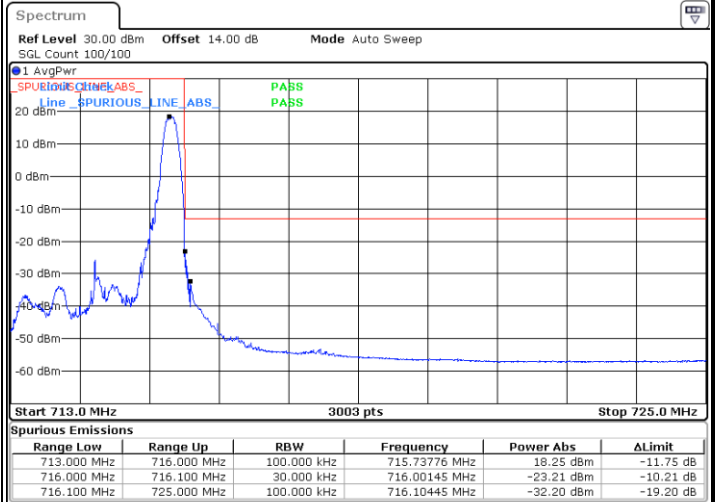
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



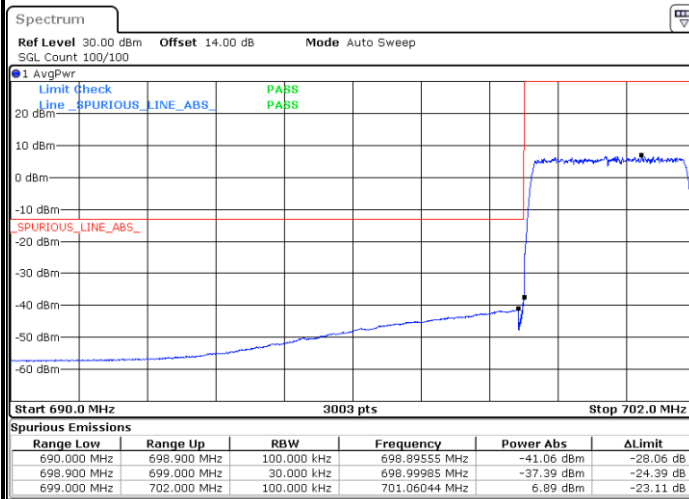
Date: 1.MAR.2023 01:52:03

Highest Band Edge / 1 RB



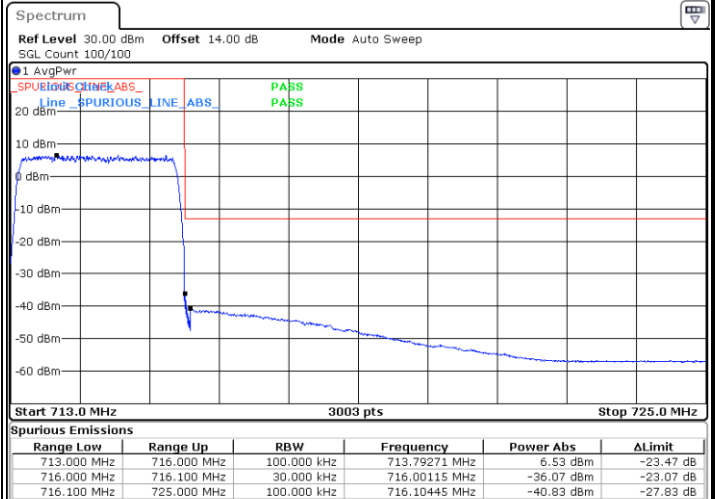
Date: 1.MAR.2023 01:59:13

Lowest Band Edge / Full RB



Date: 1.MAR.2023 01:50:40

Highest Band Edge / Full RB

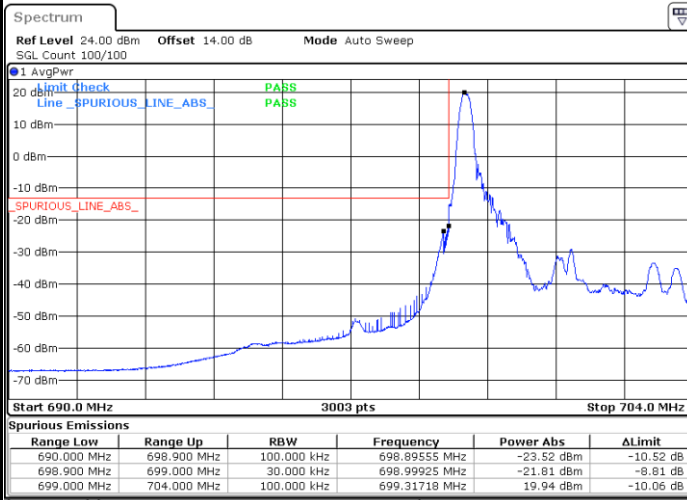


Date: 1.MAR.2023 01:57:51



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



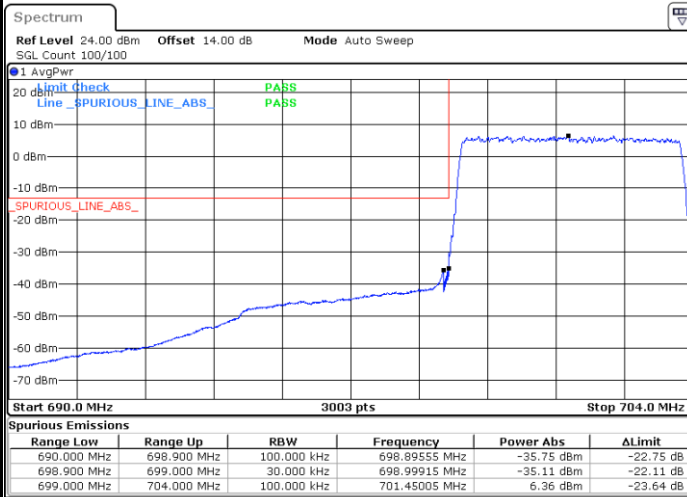
Date: 1.MAR.2023 02:19:52

Highest Band Edge / 1 RB



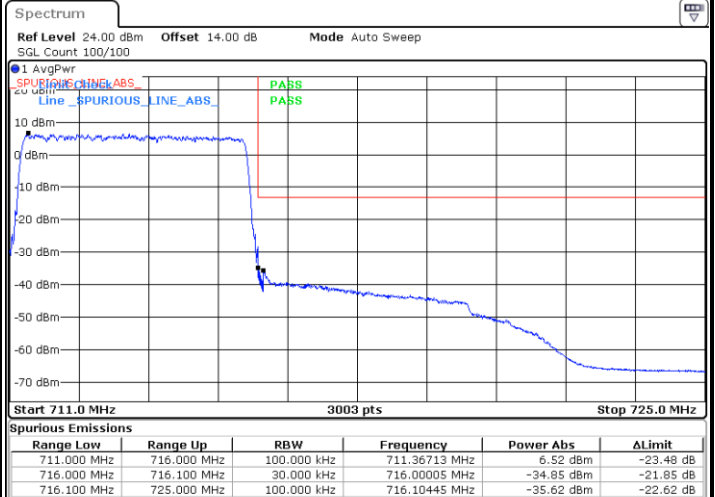
Date: 1.MAR.2023 02:33:24

Lowest Band Edge / Full RB



Date: 1.MAR.2023 02:15:45

Highest Band Edge / Full RB



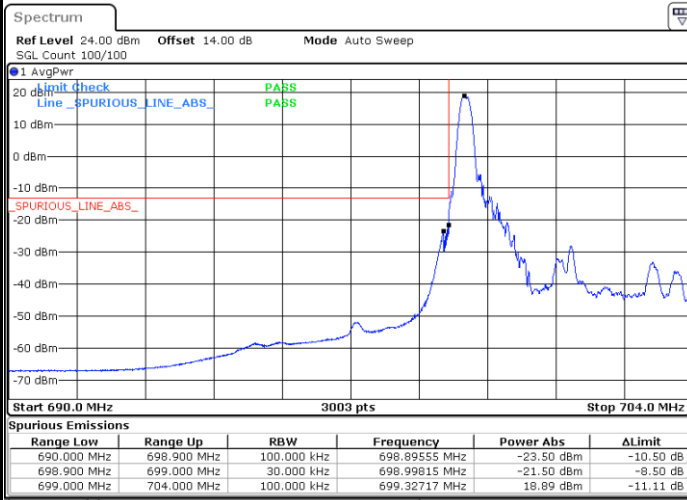
Date: 1.MAR.2023 02:30:39



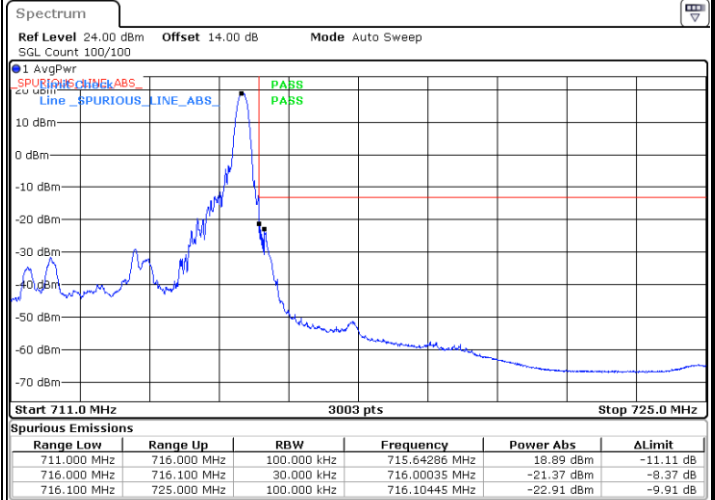


LTE Band 12 / 5MHz / 16QAM

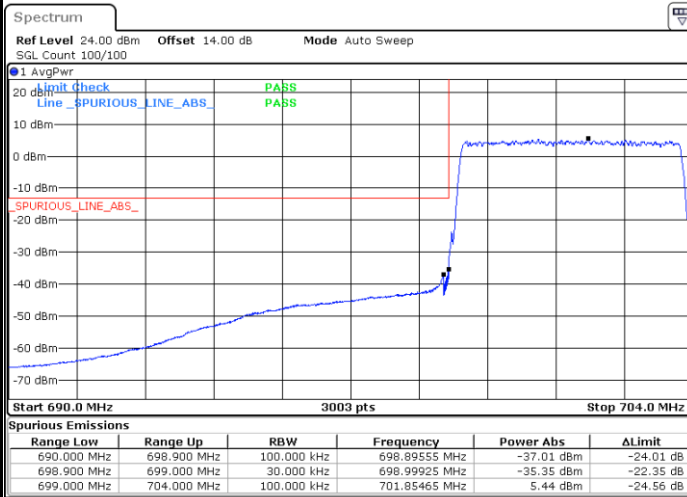
Lowest Band Edge / 1RB



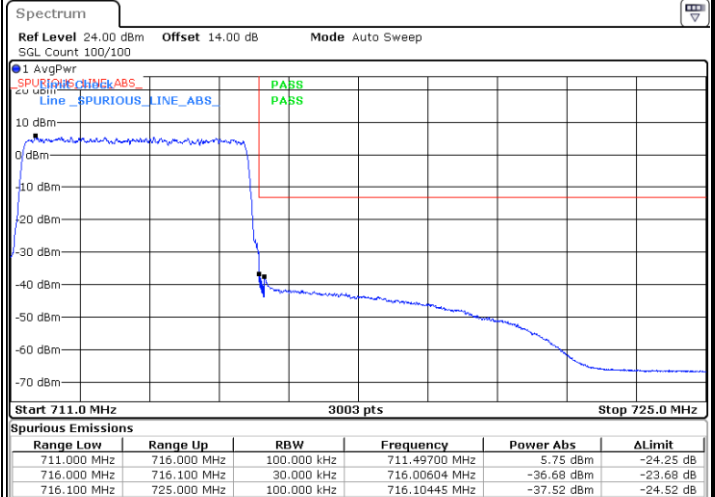
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



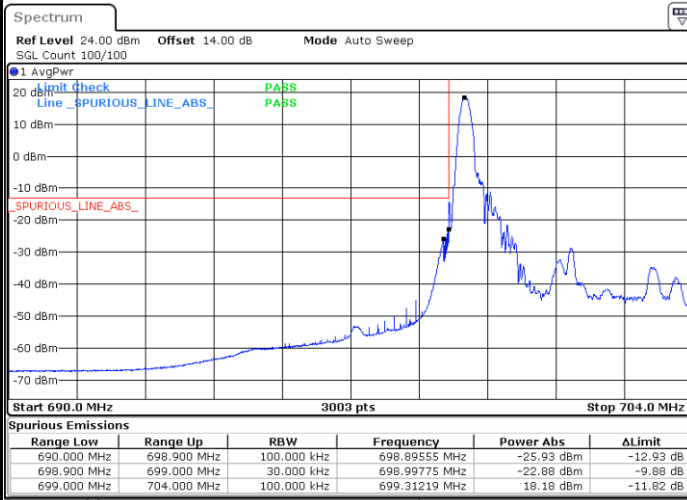
Highest Band Edge / Full RB





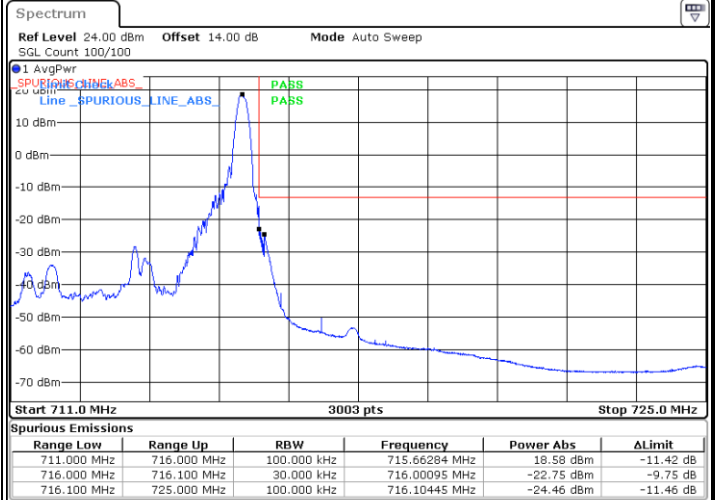
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



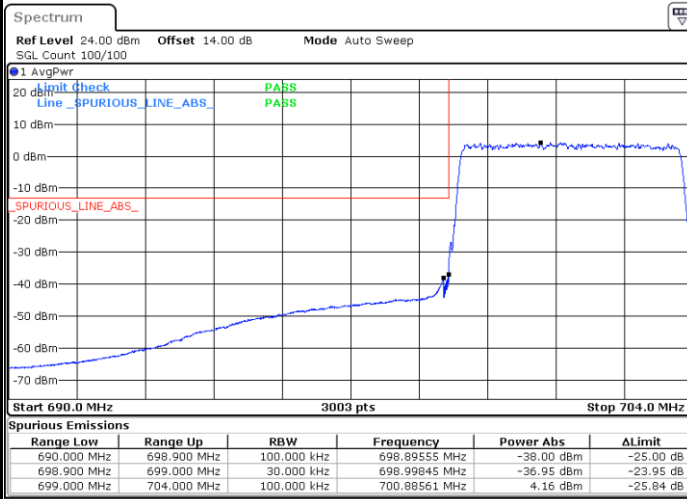
Date: 1.MAR.2023 02:04:13

Highest Band Edge / 1 RB



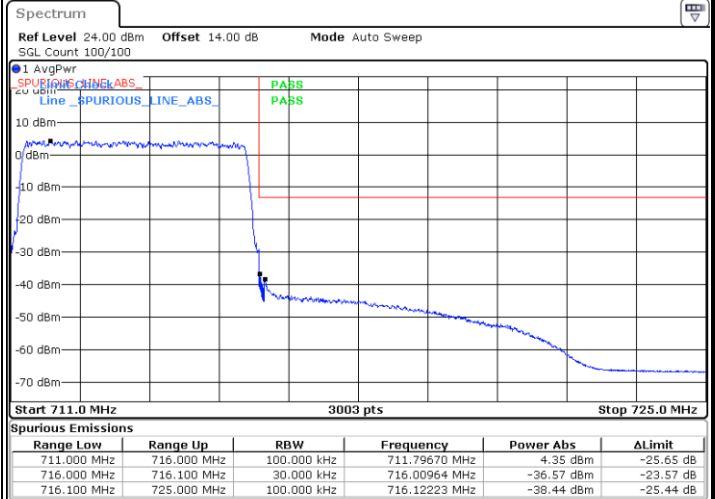
Date: 1.MAR.2023 02:11:22

Lowest Band Edge / Full RB



Date: 1.MAR.2023 02:02:50

Highest Band Edge / Full RB

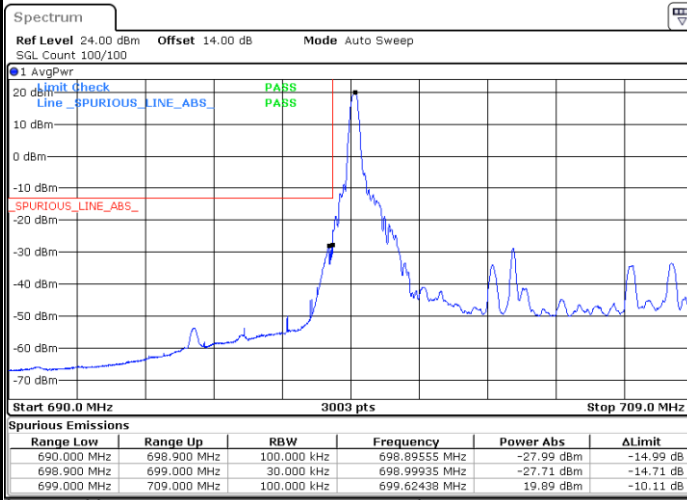


Date: 1.MAR.2023 02:10:00

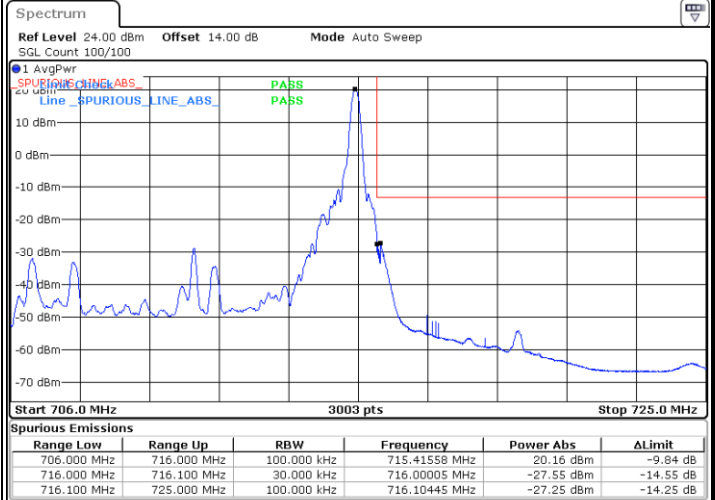


LTE Band 12 / 10MHz / QPSK

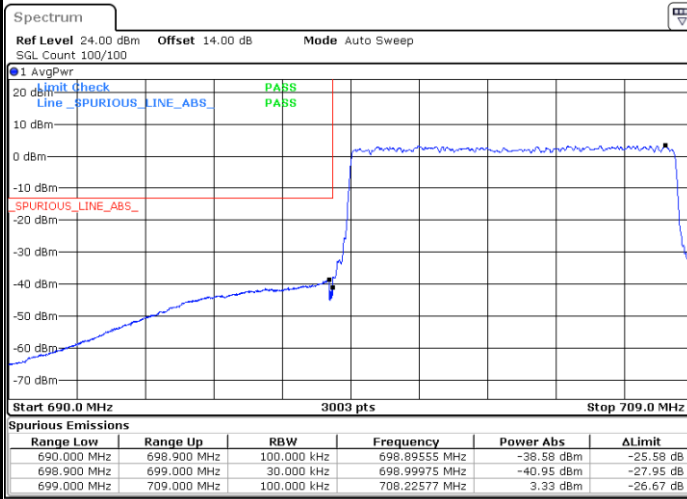
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



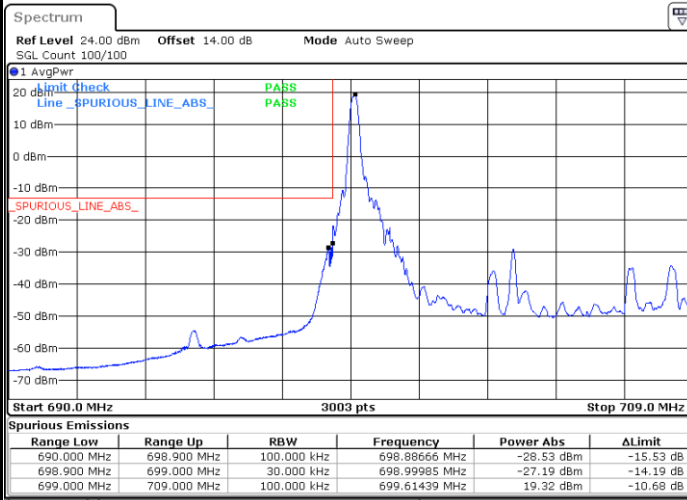
Highest Band Edge / Full RB





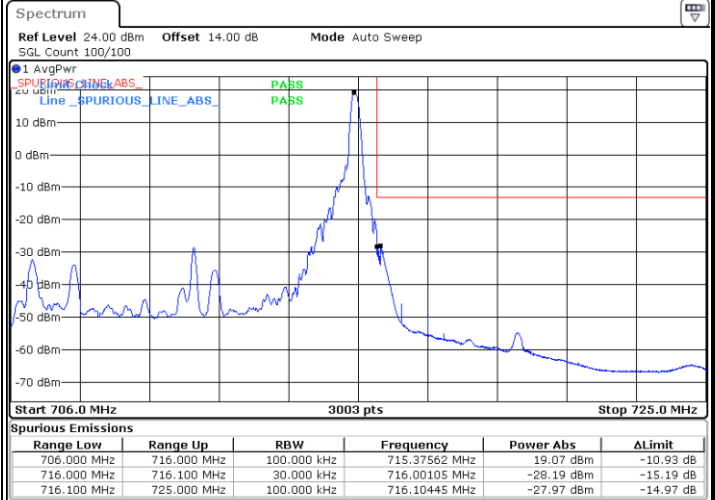
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



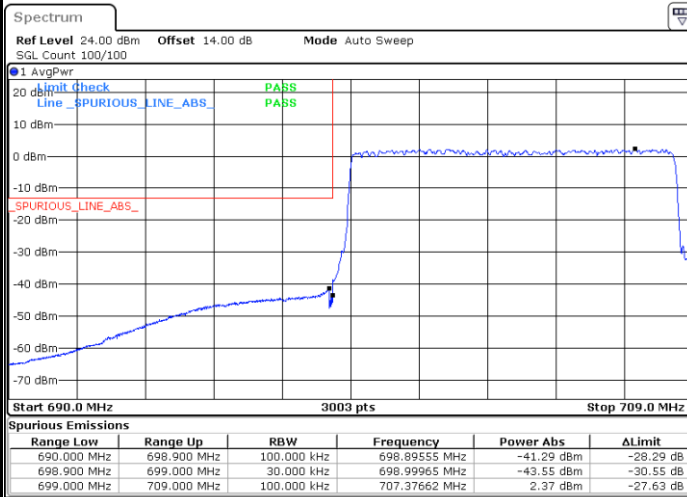
Date: 1.MAR.2023 02:43:38

Highest Band Edge / 1 RB



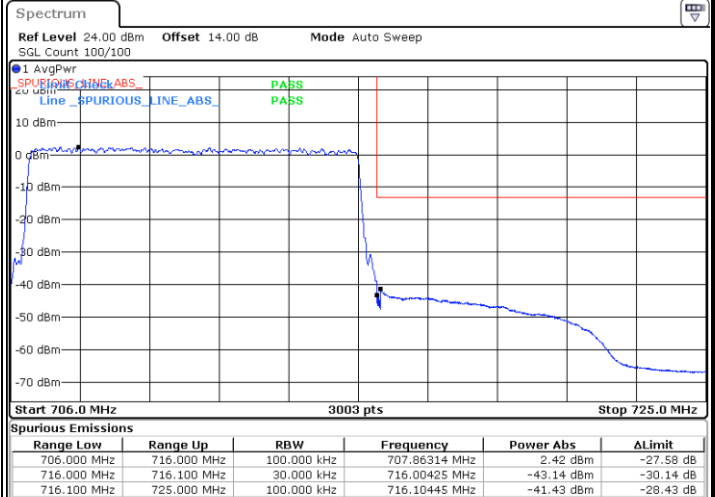
Date: 1.MAR.2023 02:58:35

Lowest Band Edge / Full RB



Date: 1.MAR.2023 02:42:16

Highest Band Edge / Full RB

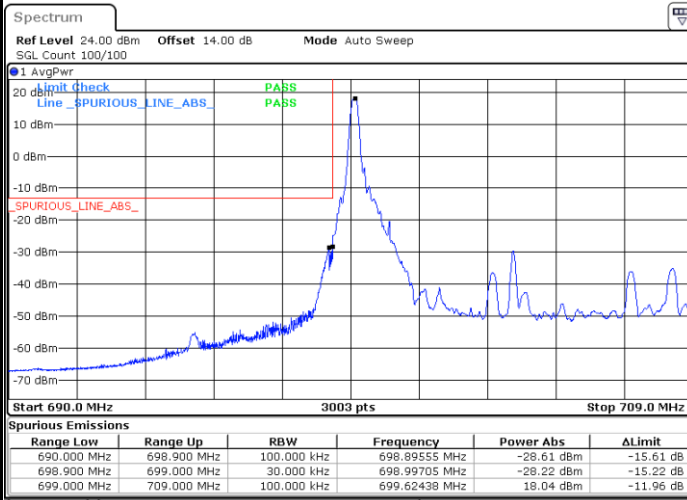


Date: 1.MAR.2023 02:57:12



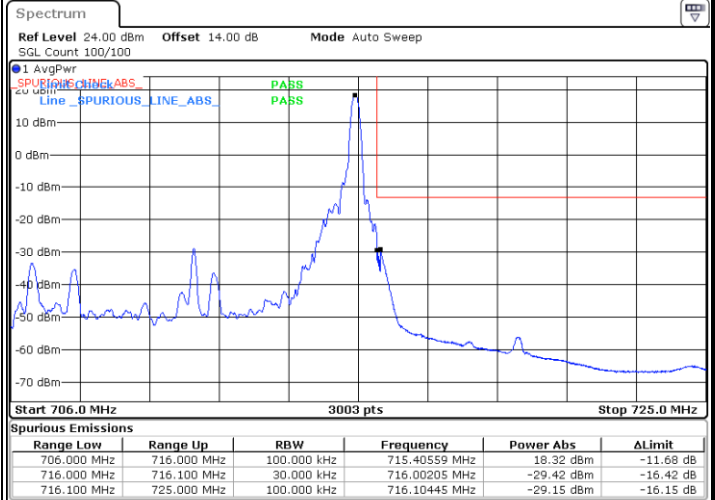
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



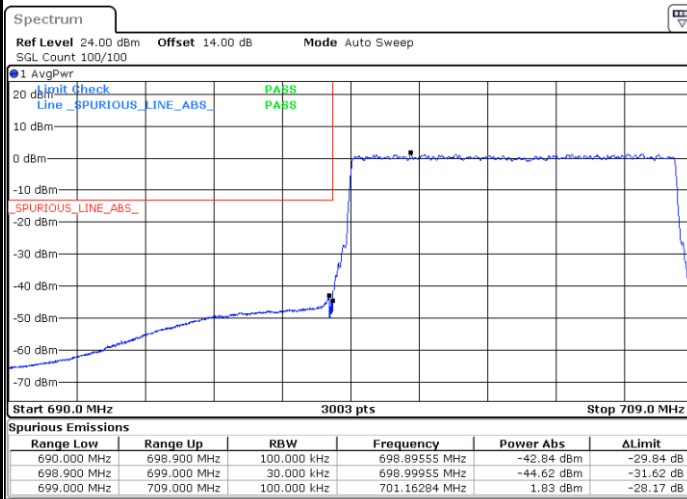
Date: 1.MAR.2023 03:06:39

Highest Band Edge / 1 RB



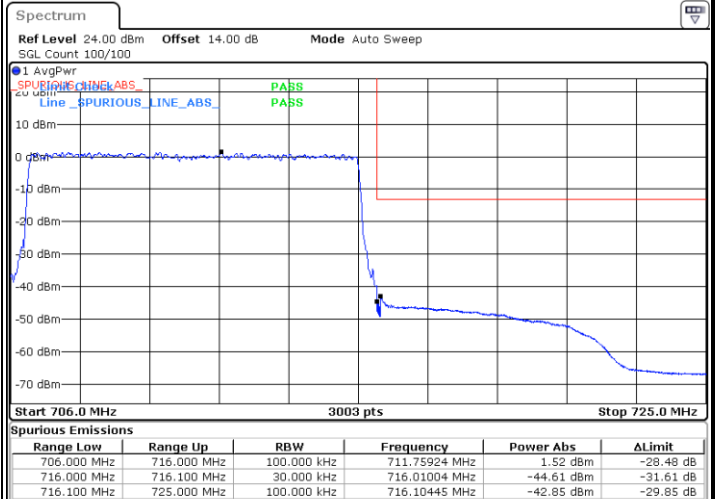
Date: 1.MAR.2023 03:13:49

Lowest Band Edge / Full RB



Date: 1.MAR.2023 03:05:16

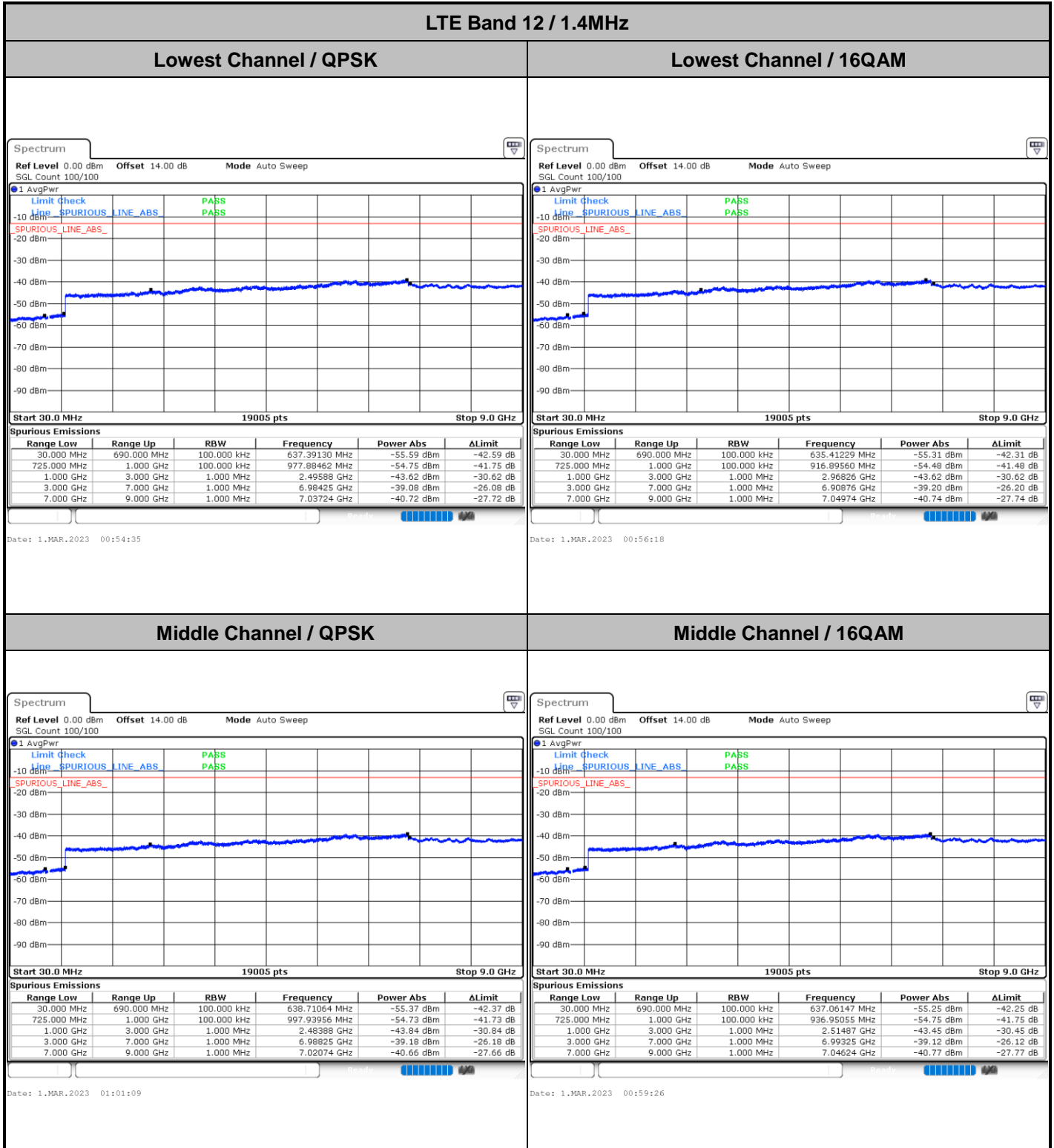
Highest Band Edge / Full RB



Date: 1.MAR.2023 03:12:26



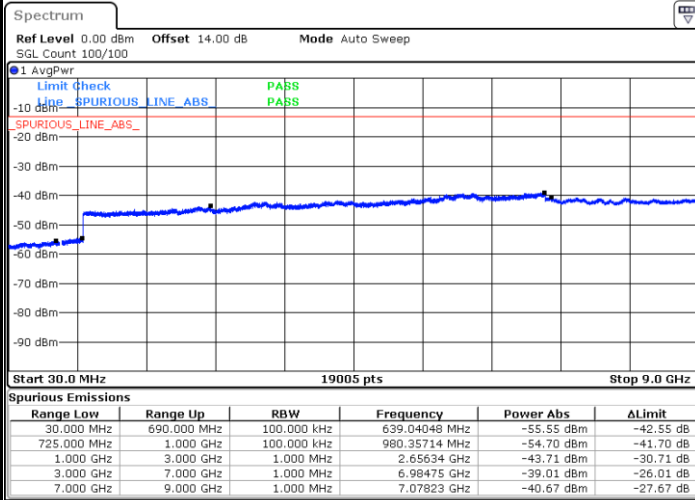
# Conducted Spurious Emission





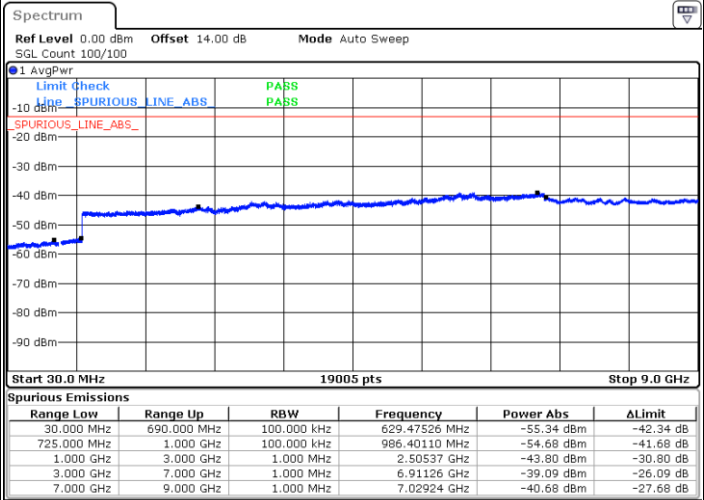
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 1.MAR.2023 01:09:42

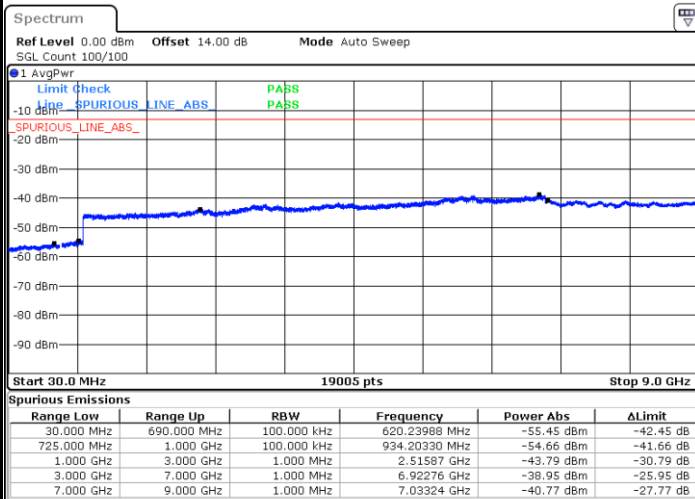
Highest Channel / 16QAM



Date: 1.MAR.2023 01:11:25

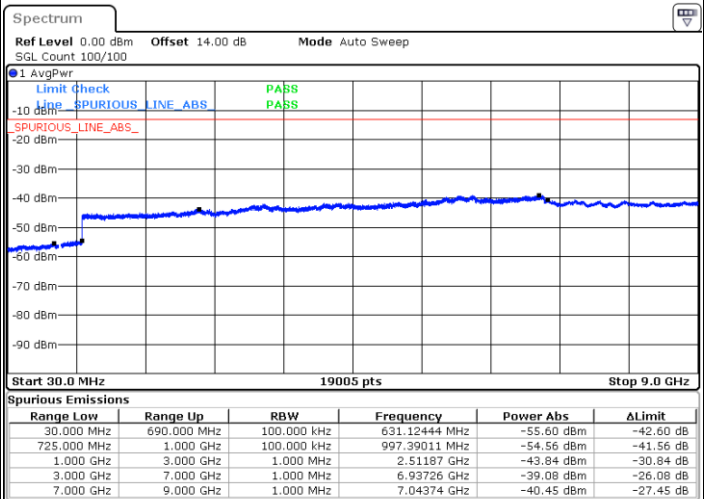
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 1.MAR.2023 01:31:58

Lowest Channel / 16QAM



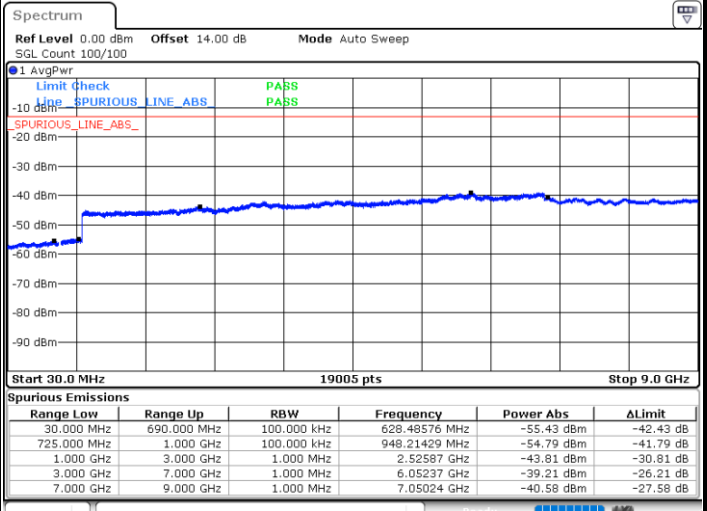
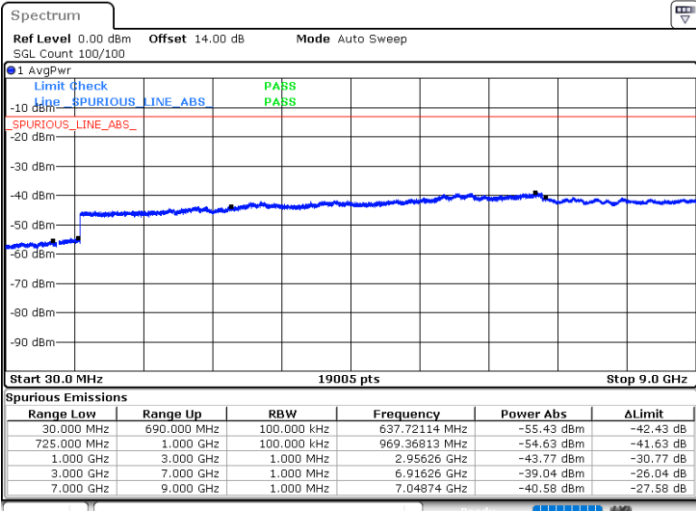
Date: 1.MAR.2023 01:33:42



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

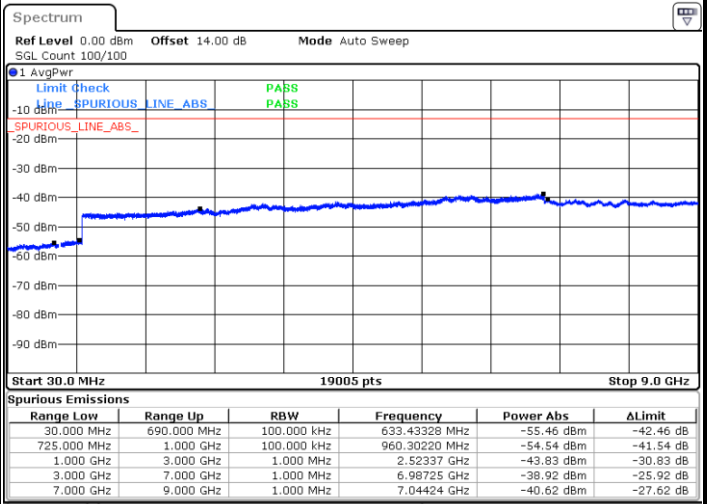
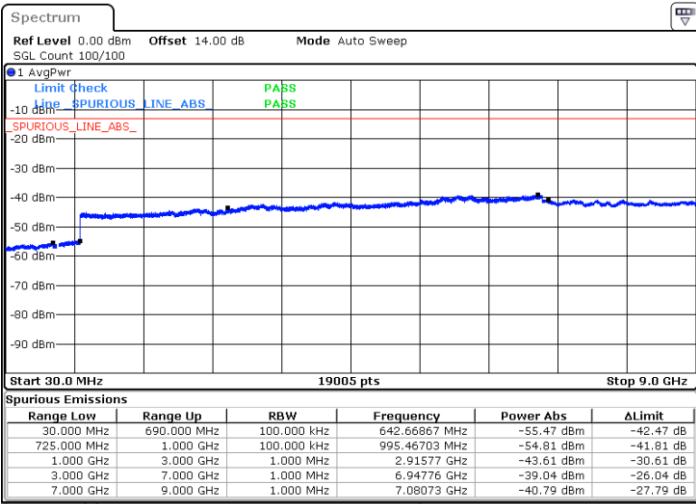


Date: 1.MAR.2023 01:38:32

Date: 1.MAR.2023 01:36:50

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.MAR.2023 01:47:04

Date: 1.MAR.2023 01:48:47

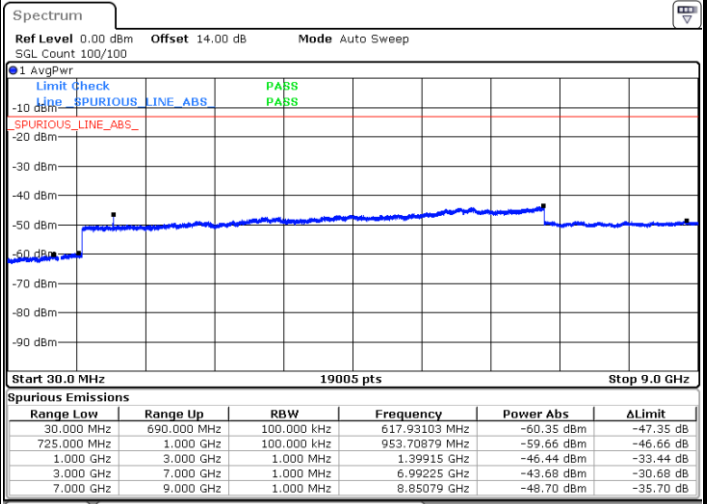
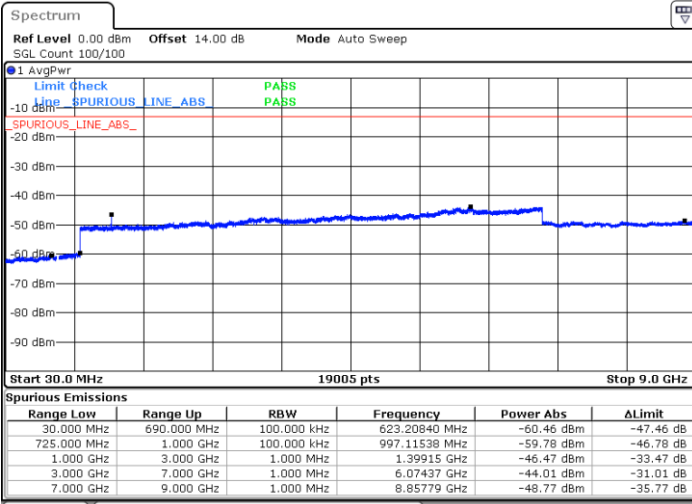




LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

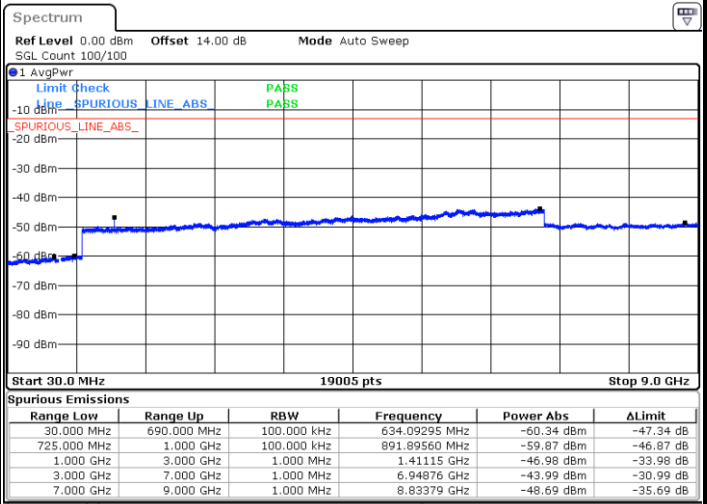
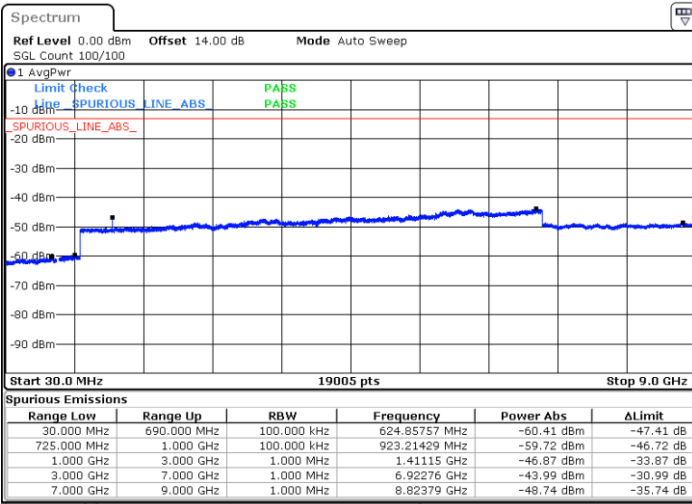


Date: 1.MAR.2023 02:21:25

Date: 1.MAR.2023 02:23:09

Middle Channel / QPSK

Middle Channel / 16QAM



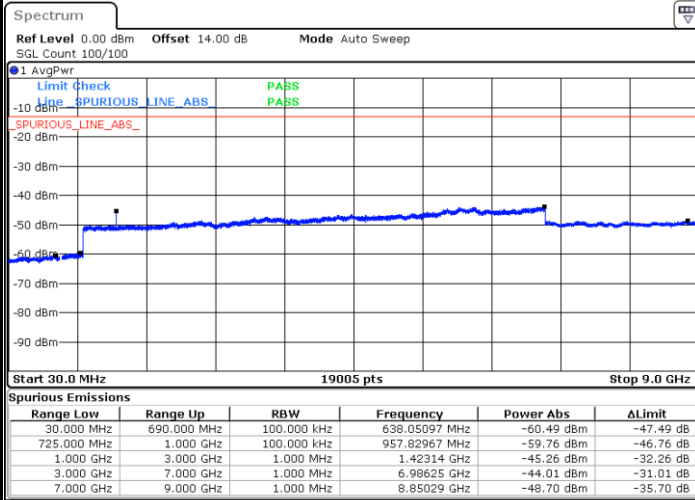
Date: 1.MAR.2023 02:27:59

Date: 1.MAR.2023 02:26:17



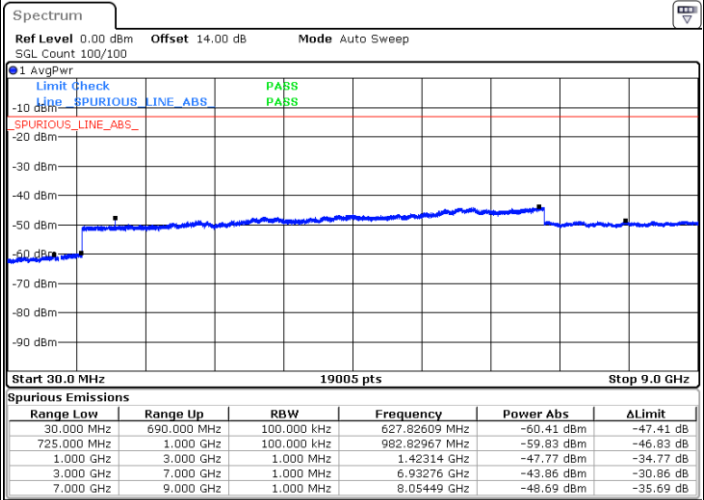
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 1.MAR.2023 02:38:11

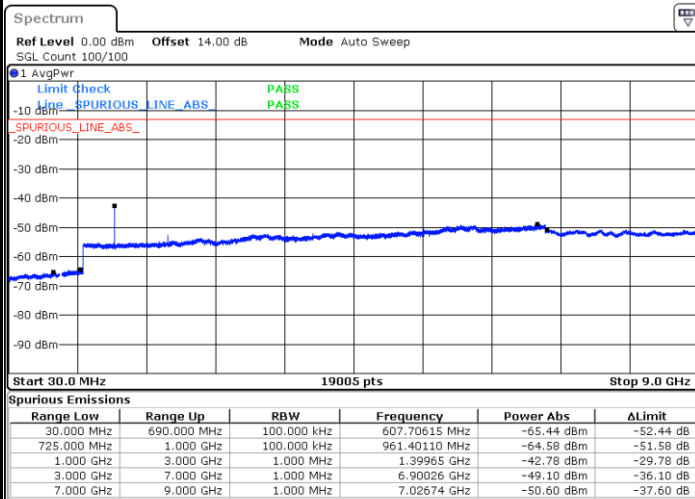
Highest Channel / 16QAM



Date: 1.MAR.2023 02:36:29

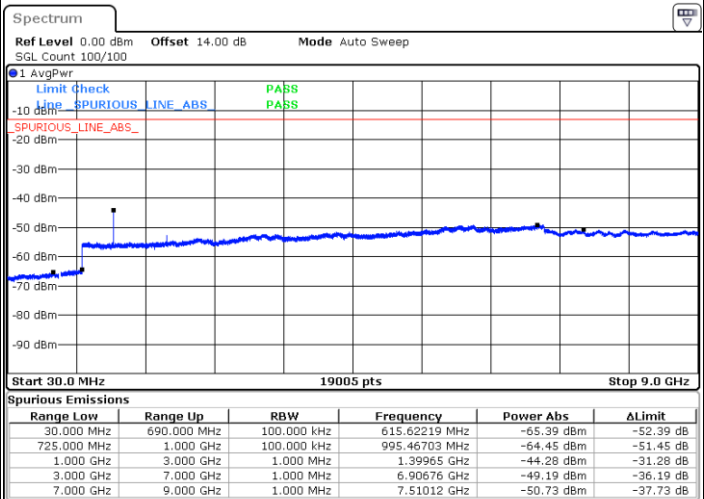
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 1.MAR.2023 02:46:34

Lowest Channel / 16QAM



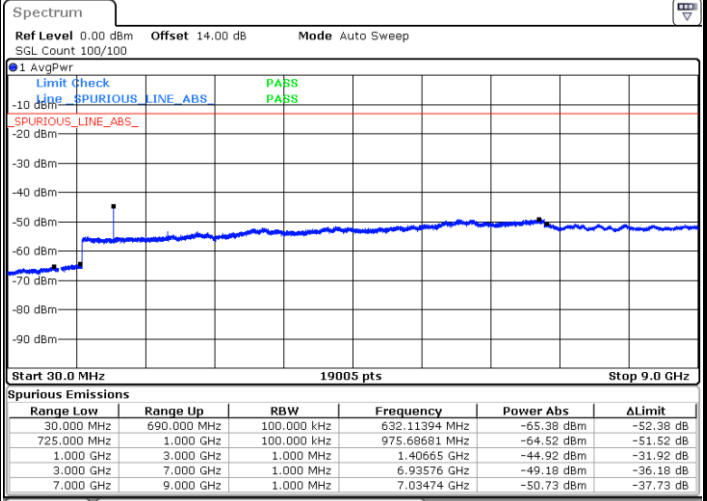
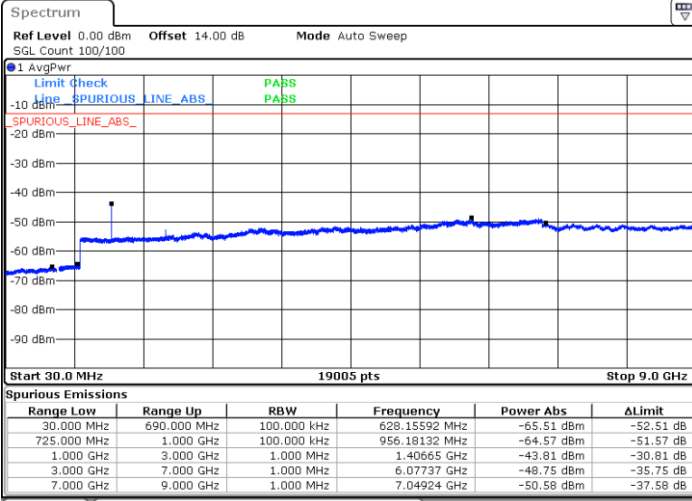
Date: 1.MAR.2023 02:48:18



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

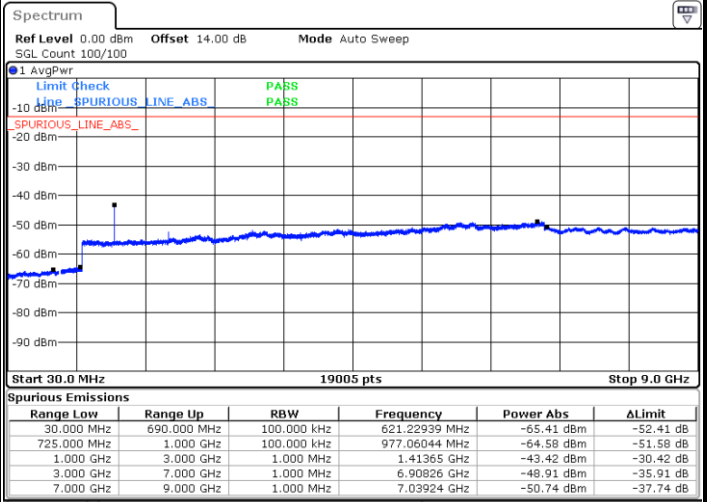
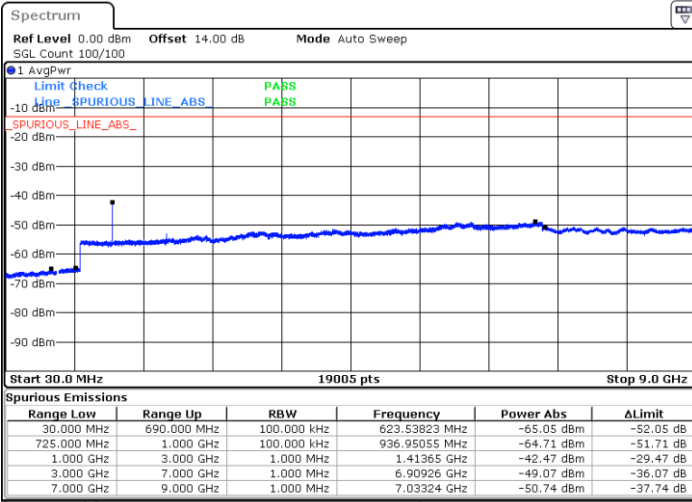


Date: 1.MAR.2023 02:53:10

Date: 1.MAR.2023 02:51:28

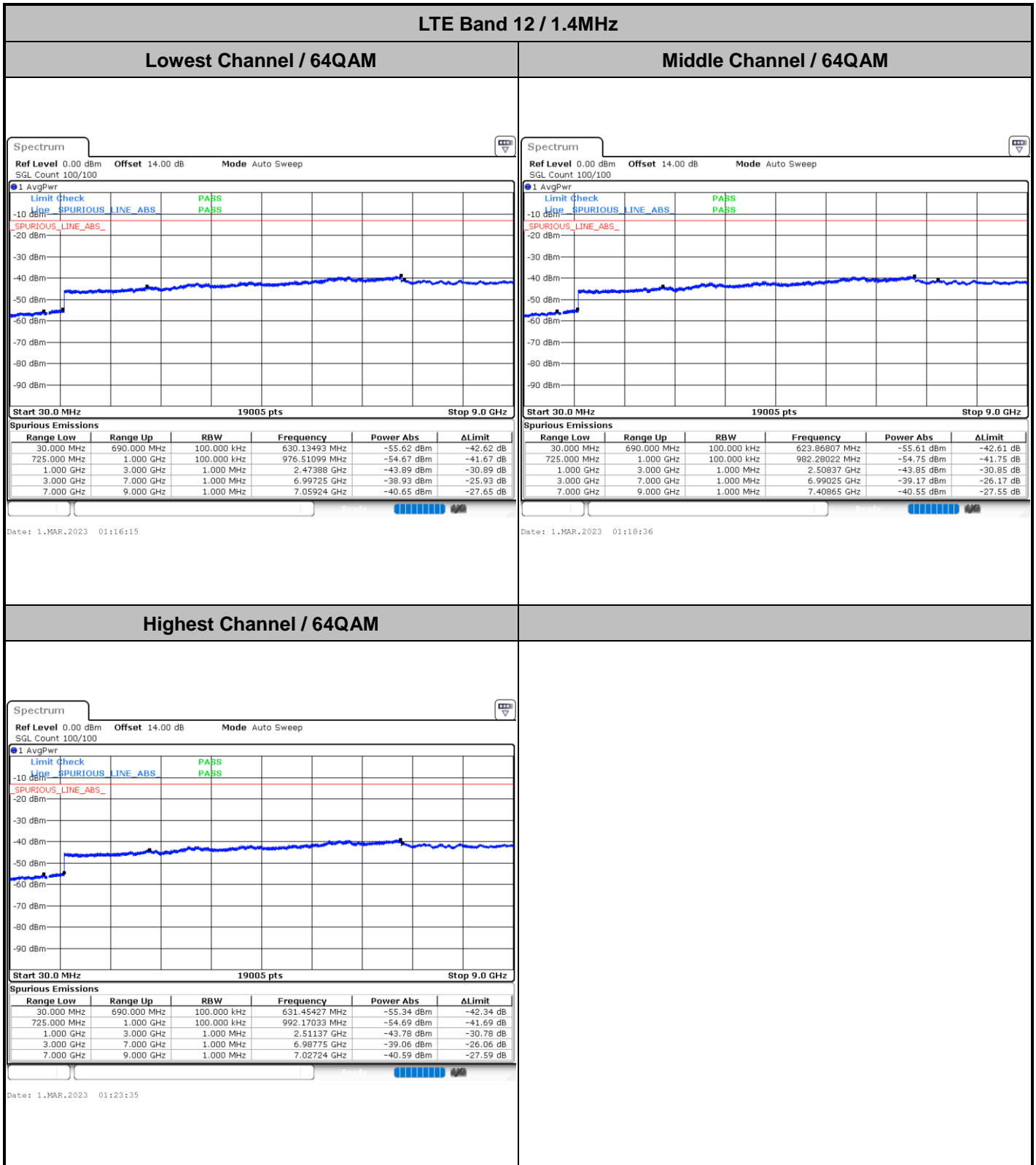
Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.MAR.2023 03:01:42

Date: 1.MAR.2023 03:03:24

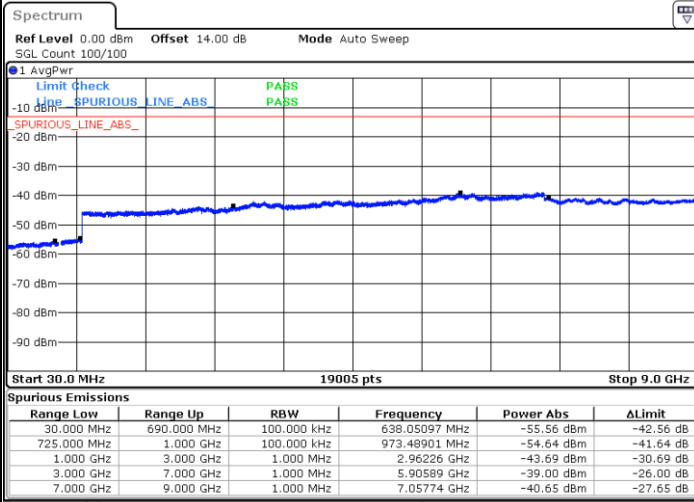




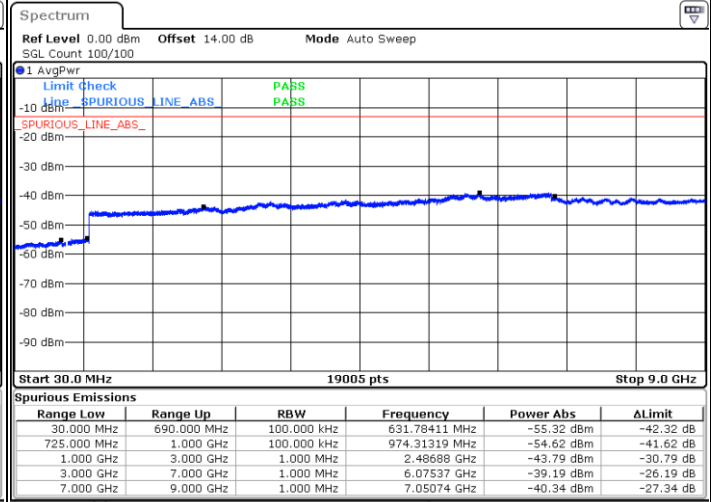
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

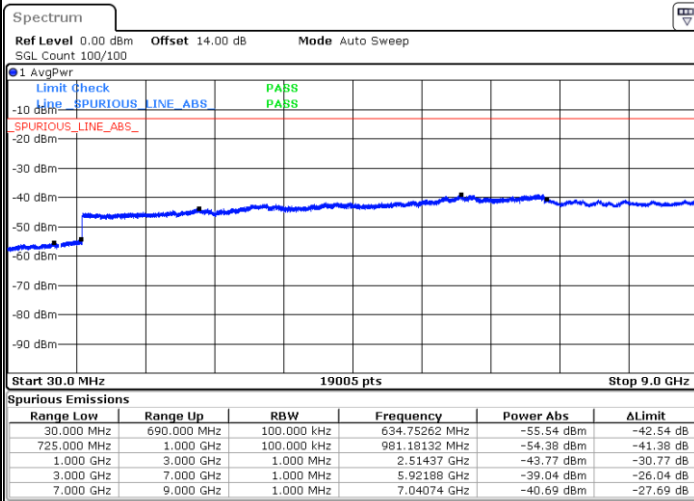


Date: 1.MAR.2023 01:53:37



Date: 1.MAR.2023 01:55:59

Highest Channel / 64QAM



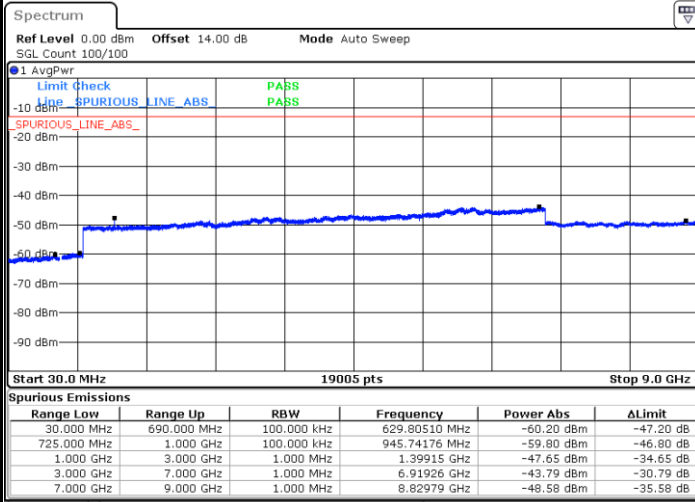
Date: 1.MAR.2023 02:00:57



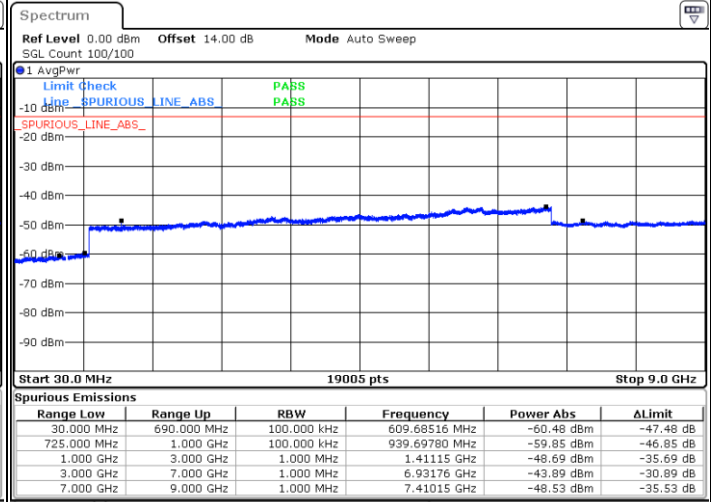
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

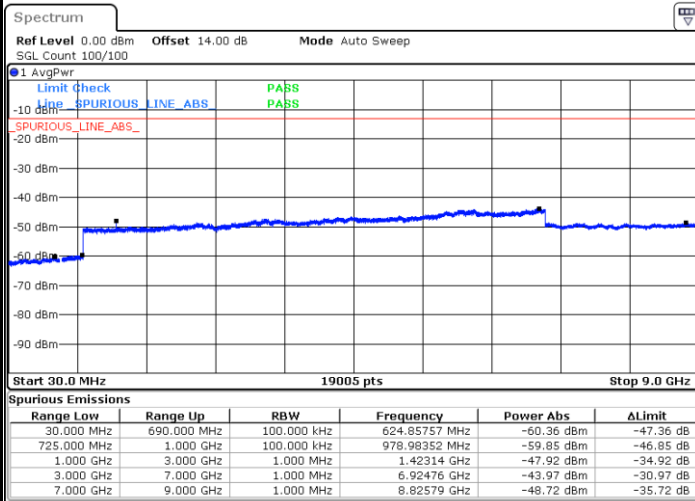


Date: 1.MAR.2023 02:05:47



Date: 1.MAR.2023 02:08:08

Highest Channel / 64QAM



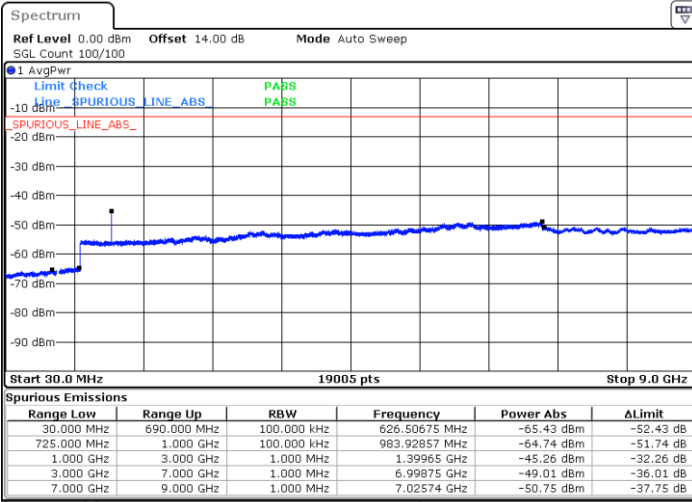
Date: 1.MAR.2023 02:13:05



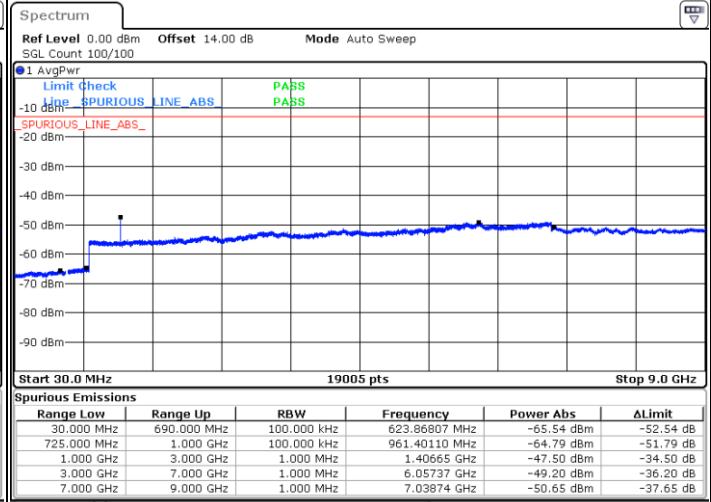
LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

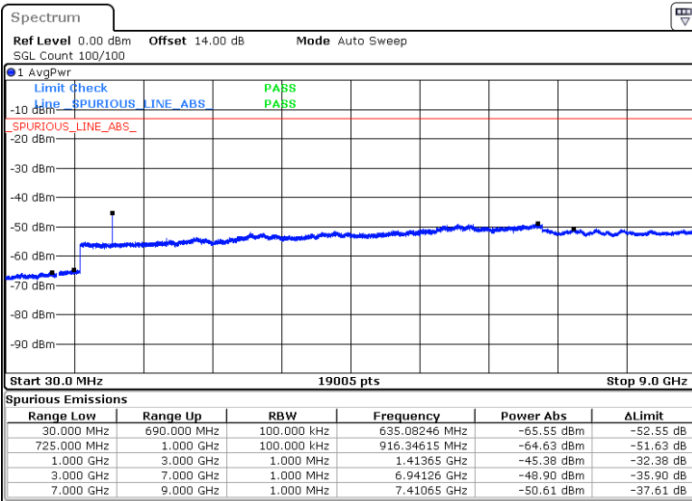


Date: 1.MAR.2023 03:08:12



Date: 1.MAR.2023 03:10:33

Highest Channel / 64QAM



Date: 1.MAR.2023 03:15:31



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
55	Normal Voltage	0.0073	PASS
40	Normal Voltage	0.0058	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0037	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0017	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.





### LTE Band 13<Ant.1>

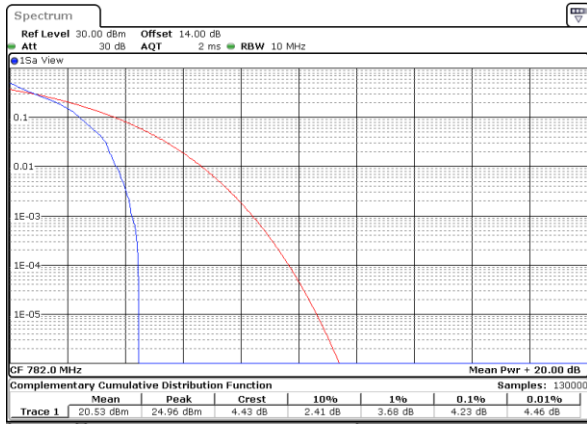
#### Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.23	5.10	5.39	5.97	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.71	6.35	-	-	
Highest CH	-	-	-	-	



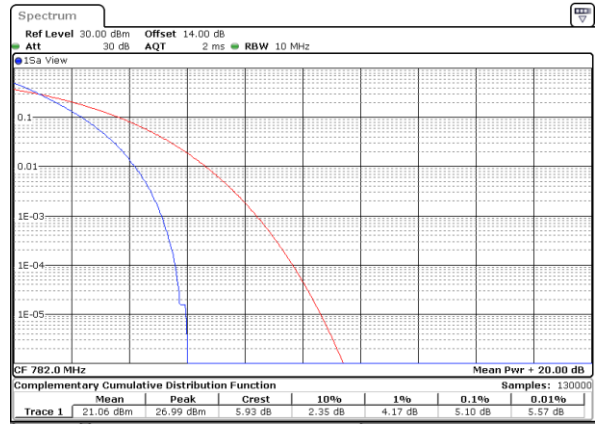
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 1.MAR.2023 13:19:00

Middle Channel / Full RB



Date: 1.MAR.2023 13:19:25

LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 1.MAR.2023 13:18:09

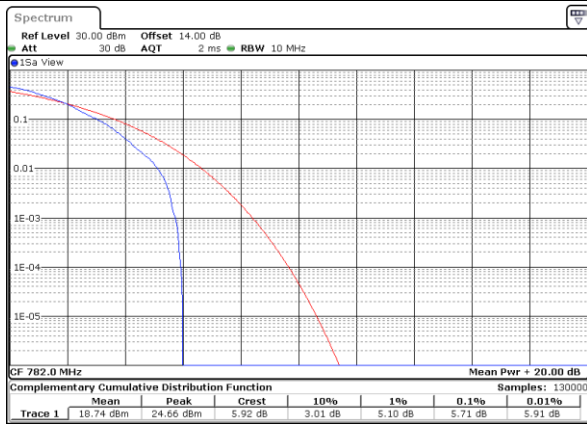
Middle Channel / Full RB



Date: 1.MAR.2023 13:18:35

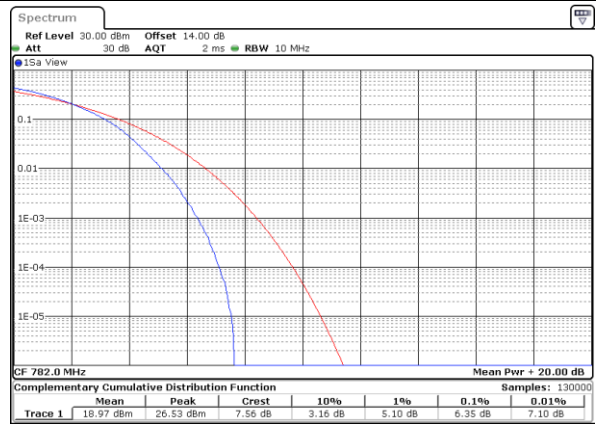
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 1.MAR.2023 13:17:20

Middle Channel / Full RB



Date: 1.MAR.2023 13:17:45



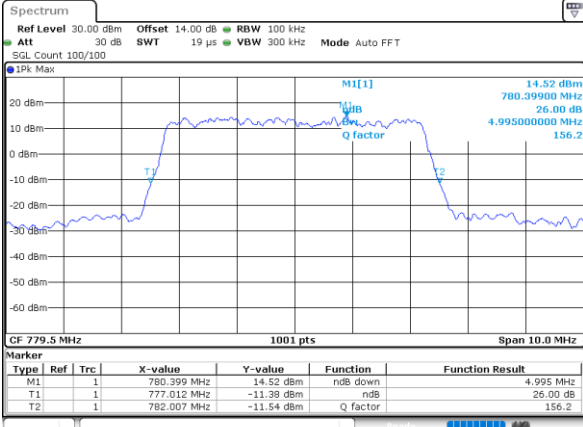
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.00	4.87	-	-	-	-	-	-
Middle CH	-	-	-	-	4.89	4.83	9.97	9.81	-	-	-	-
Highest CH	-	-	-	-	4.86	4.84	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.86	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.95	-	9.73	-	-	-	-	-
Highest CH	-	-	-	-	4.84	-	-	-	-	-	-	-



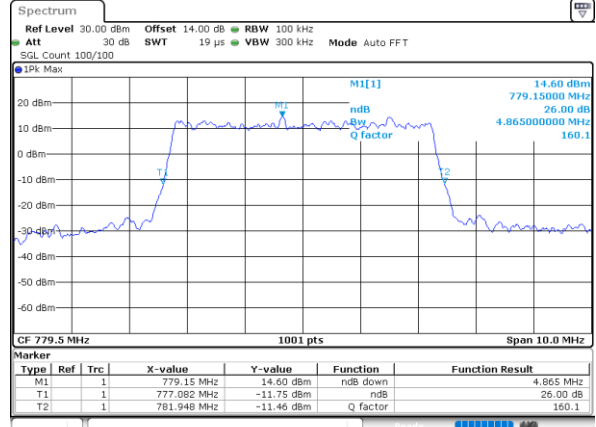
LTE Band 13

Lowest Channel / 5MHz / QPSK



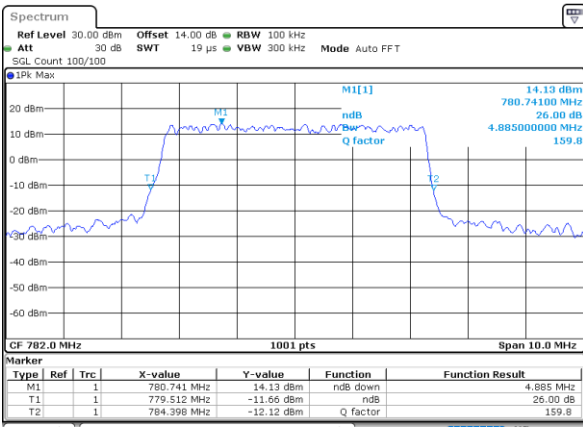
Date: 1.MAR.2023 12:23:17

Lowest Channel / 5MHz / 16QAM



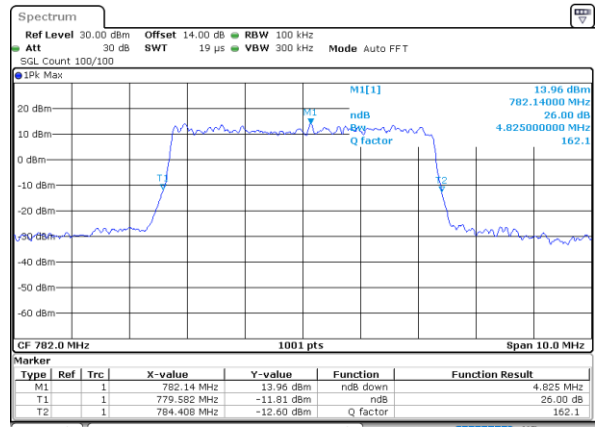
Date: 1.MAR.2023 12:23:13

Middle Channel / 5MHz / QPSK



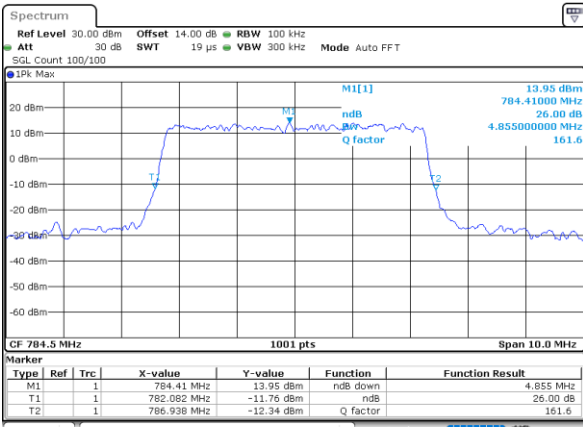
Date: 1.MAR.2023 12:34:13

Middle Channel / 5MHz / 16QAM



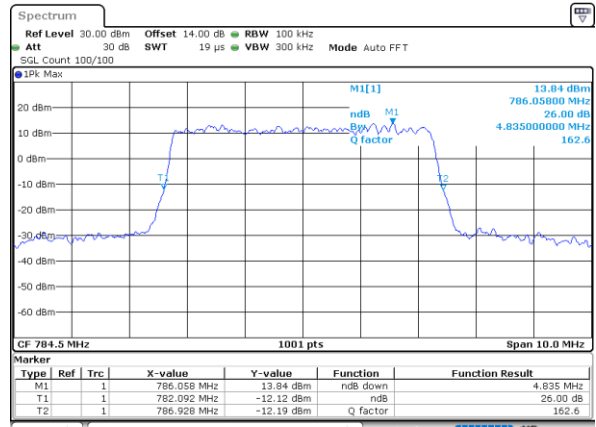
Date: 1.MAR.2023 12:34:36

Highest Channel / 5MHz / QPSK



Date: 1.MAR.2023 12:36:40

Highest Channel / 5MHz / 16QAM

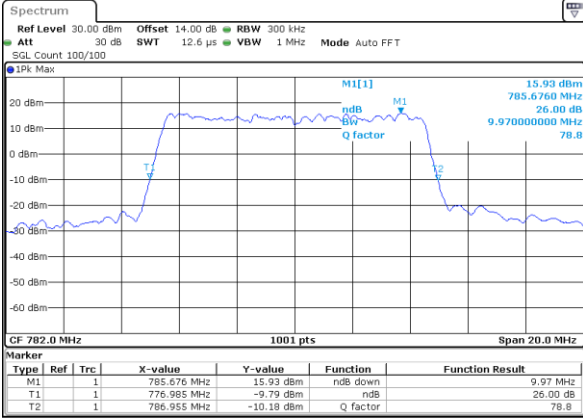


Date: 1.MAR.2023 12:36:16



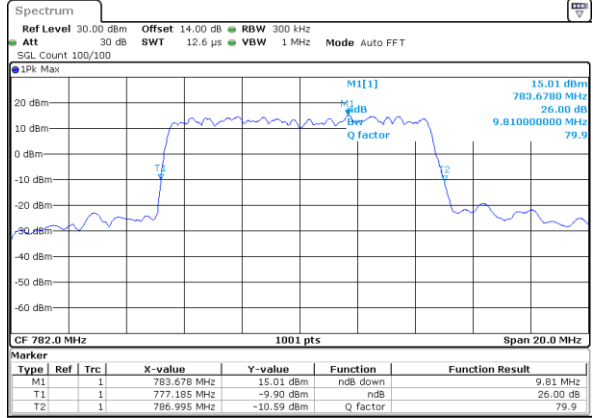
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 1.MAR.2023 12:57:153

Middle Channel / 10MHz / 16QAM



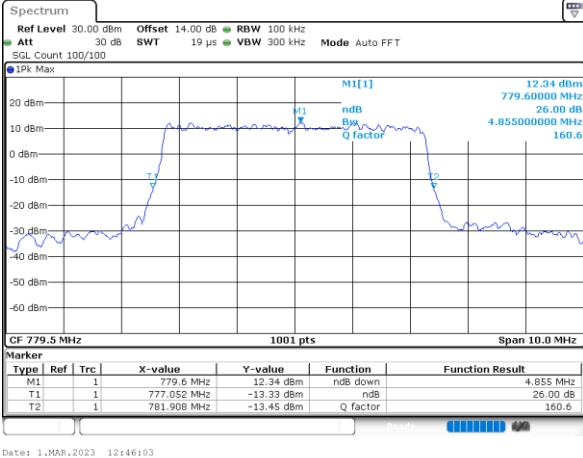
Date: 1.MAR.2023 12:57:29



LTE Band 13

Lowest Channel / 5MHz / 64QAM

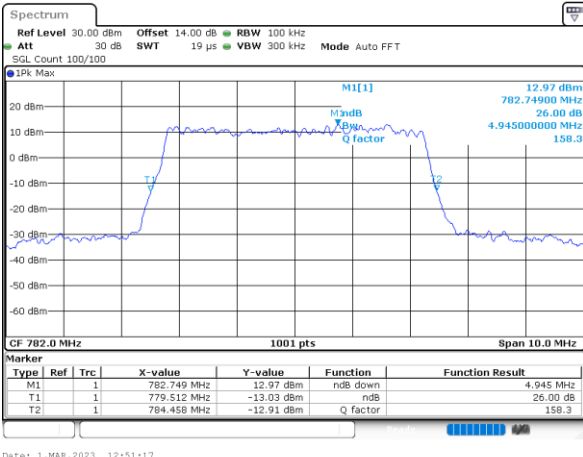
NA



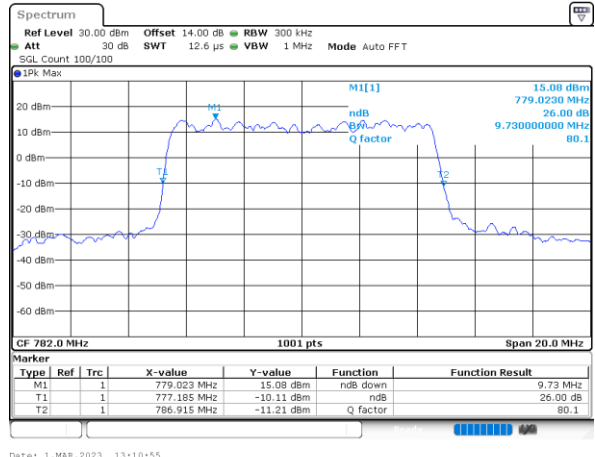
Date: 1.MAR.2023 12:46:03

Middle Channel / 5MHz / 64QAM

Middle Channel / 10MHz / 64QAM

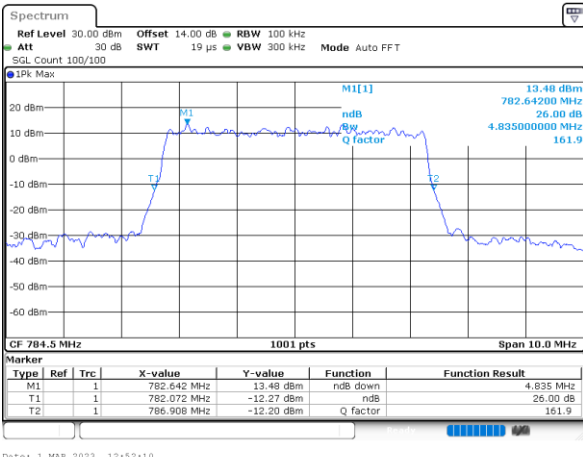


Date: 1.MAR.2023 12:51:17



Date: 1.MAR.2023 13:10:55

Highest Channel / 5MHz / 64QAM



Date: 1.MAR.2023 12:52:10



**Occupied Bandwidth**

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.50	9.05	9.03	-	-	-	-
Highest CH	-	-	-	-	4.48	4.49	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	-	9.01	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	-	-	-	-	-	-