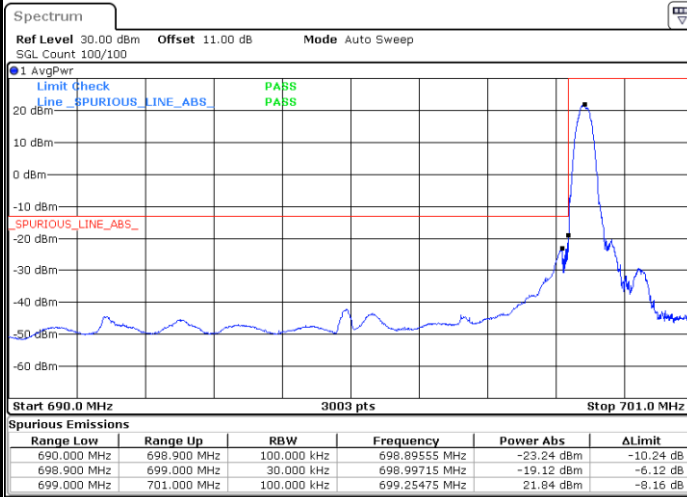




LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



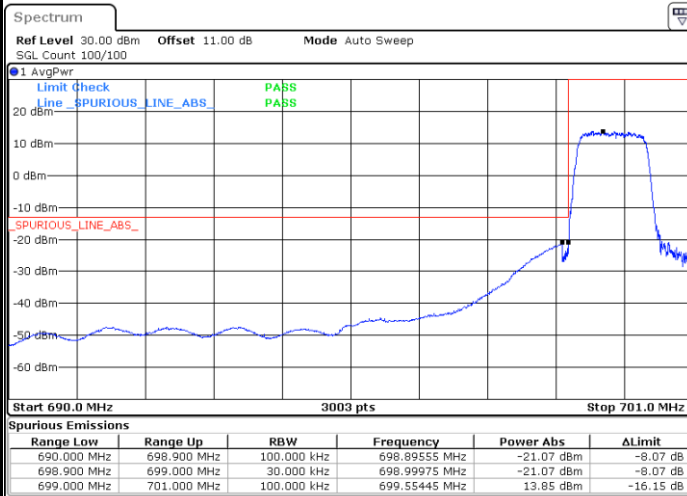
Date: 20.FEB.2023 11:42:37

Highest Band Edge / 1 RB



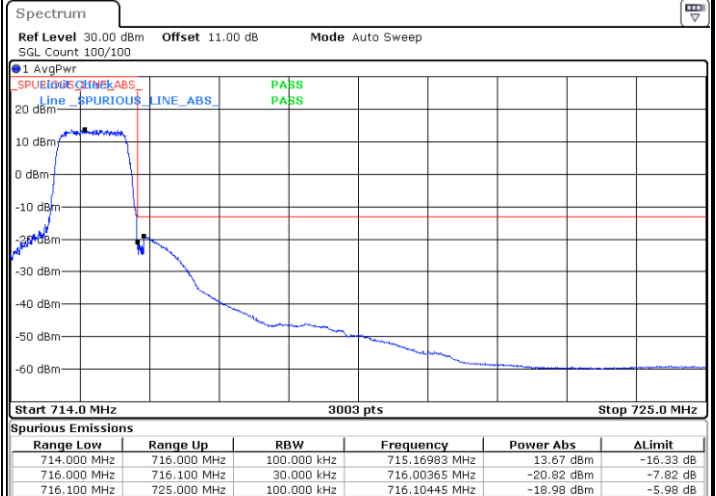
Date: 21.FEB.2023 10:16:02

Lowest Band Edge / Full RB



Date: 20.FEB.2023 11:41:38

Highest Band Edge / Full RB

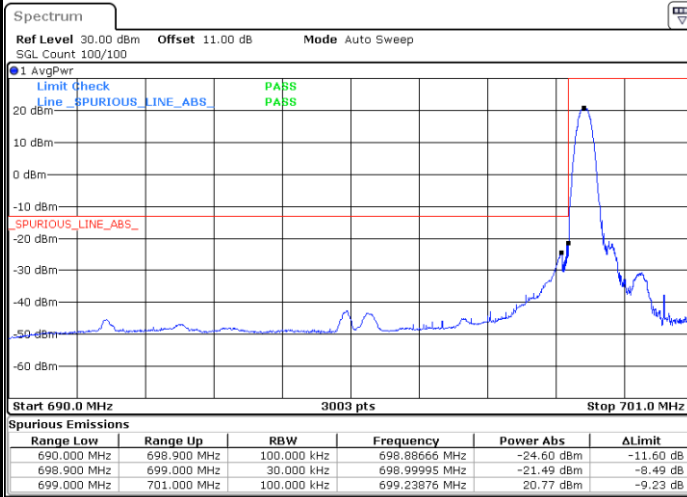


Date: 20.FEB.2023 11:49:35



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



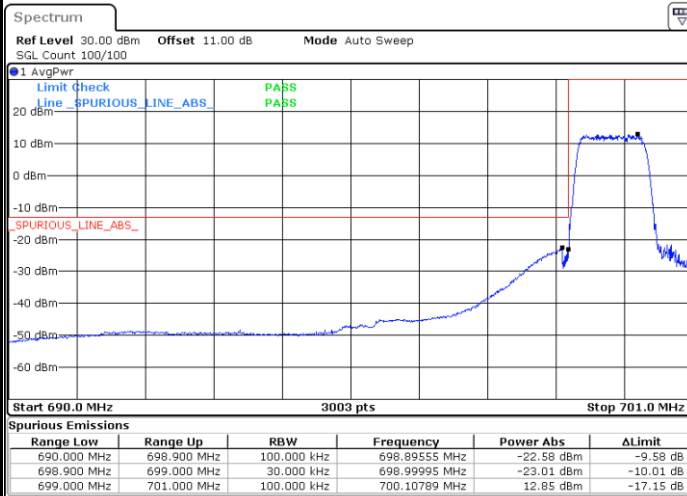
Date: 20.FEB.2023 11:54:49

Highest Band Edge / 1 RB



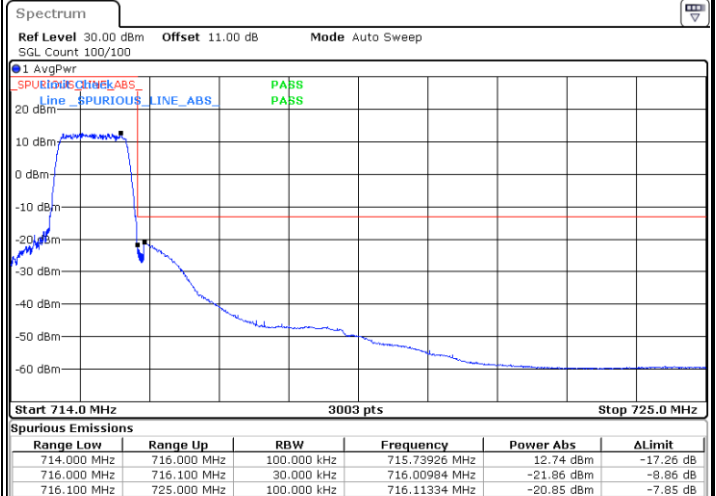
Date: 20.FEB.2023 11:57:30

Lowest Band Edge / Full RB



Date: 20.FEB.2023 11:53:51

Highest Band Edge / Full RB

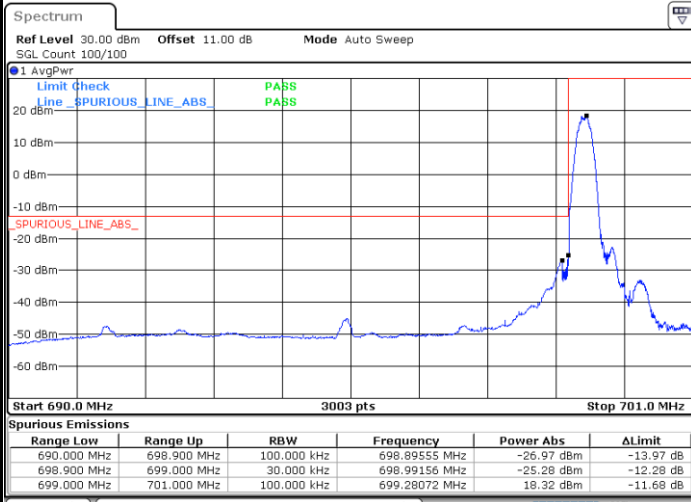


Date: 20.FEB.2023 11:56:31



LTE Band 12 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



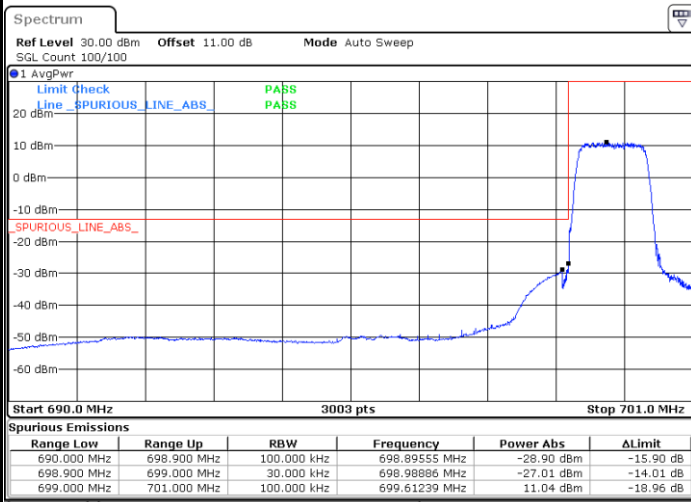
Date: 20.FEB.2023 13:35:24

Highest Band Edge / 1 RB



Date: 21.FEB.2023 10:16:58

Lowest Band Edge / Full RB



Date: 20.FEB.2023 13:34:26

Highest Band Edge / Full RB

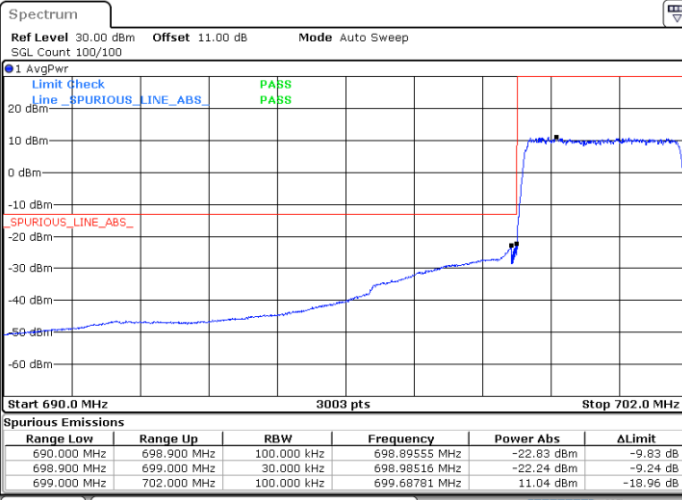


Date: 20.FEB.2023 13:37:07



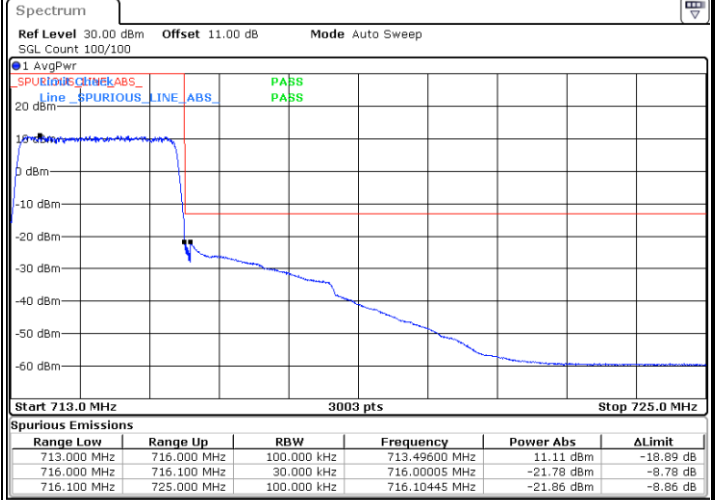
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB



Date: 20.FEB.2023 12:00:29

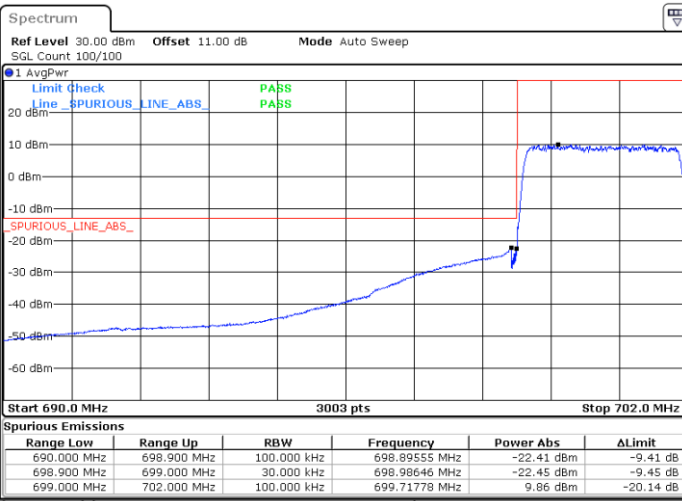
Highest Band Edge / Full RB



Date: 20.FEB.2023 12:04:10

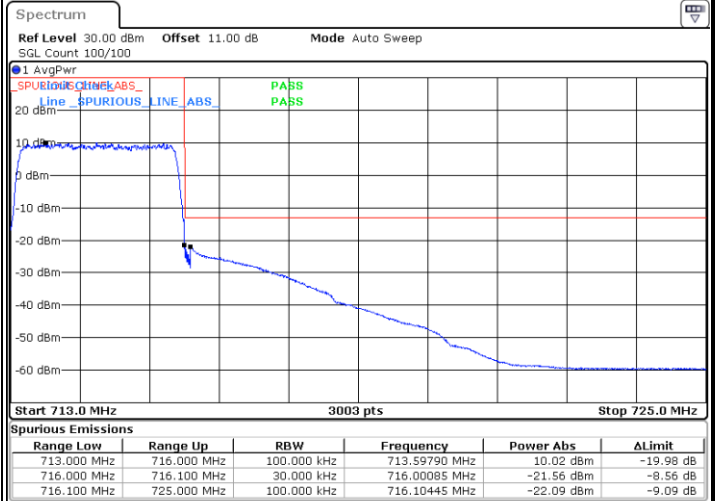
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Date: 20.FEB.2023 12:01:27

Highest Band Edge / Full RB

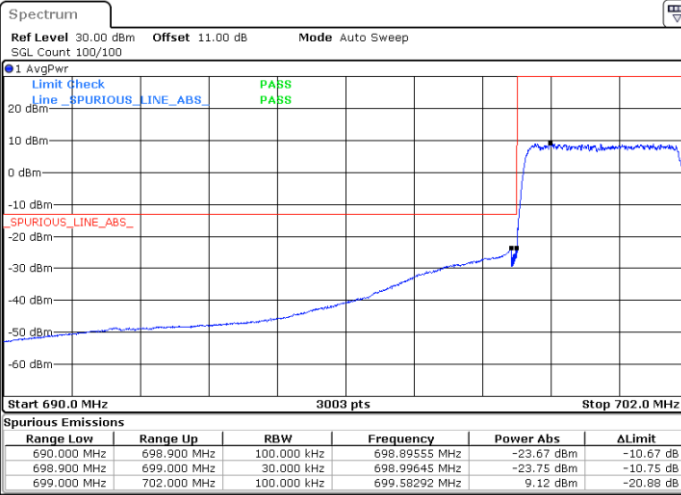


Date: 20.FEB.2023 12:05:08



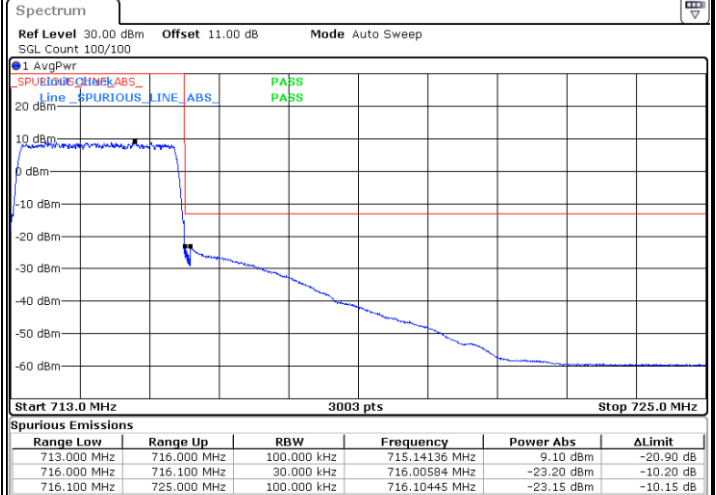
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / Full RB



Date: 20.FEB.2023 12:06:08

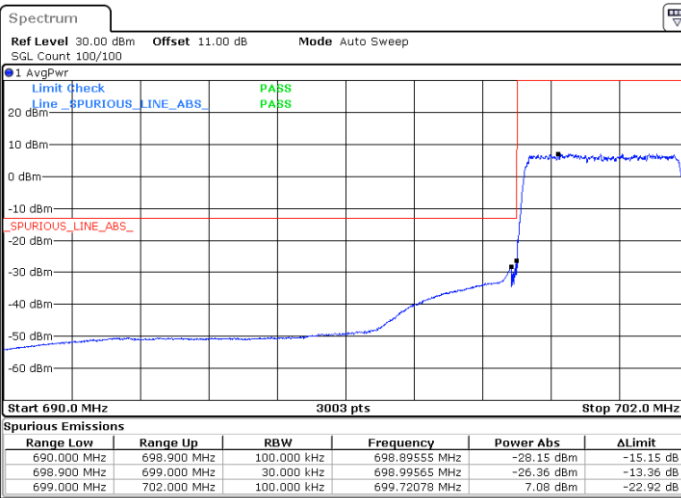
Highest Band Edge / Full RB



Date: 20.FEB.2023 12:07:49

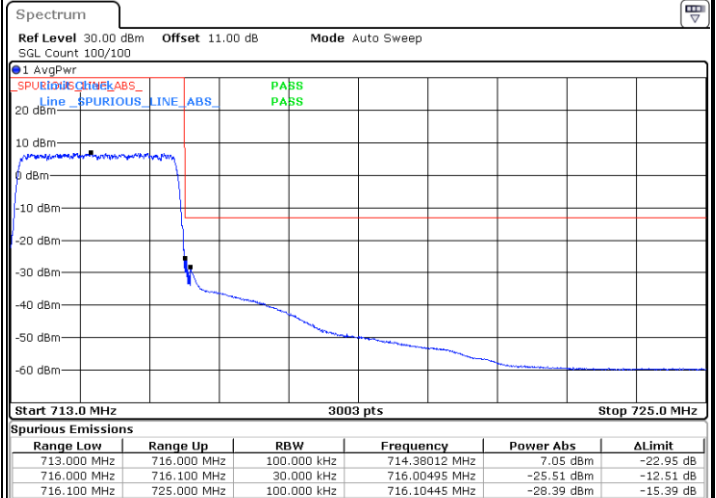
LTE Band 12 / 3MHz / 256QAM

Lowest Band Edge / Full RB



Date: 20.FEB.2023 17:51:44

Highest Band Edge / Full RB

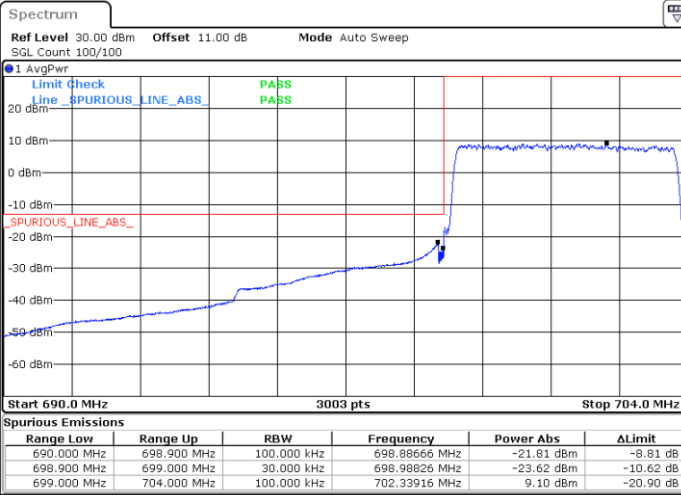


Date: 20.FEB.2023 17:53:26



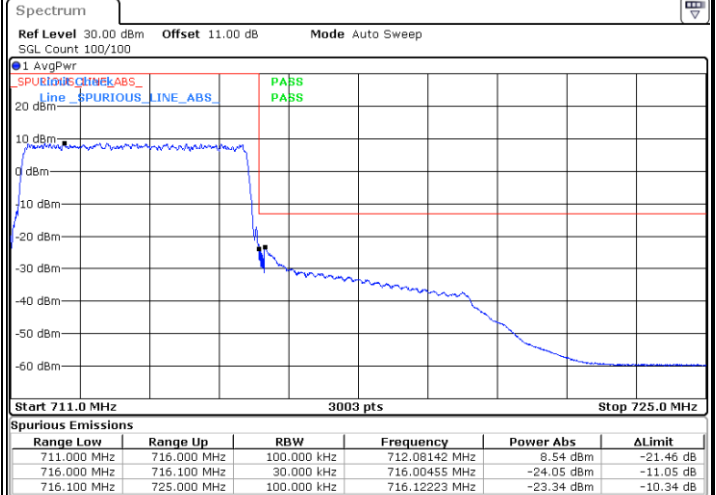
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 20.FEB.2023 12:13:29

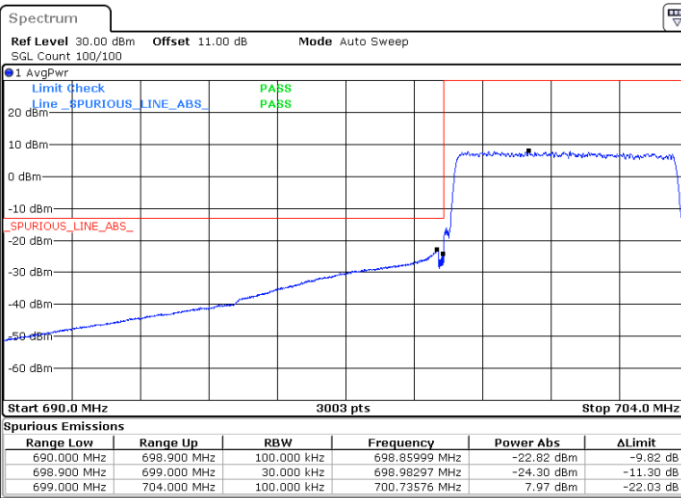
Highest Band Edge / Full RB



Date: 20.FEB.2023 12:17:08

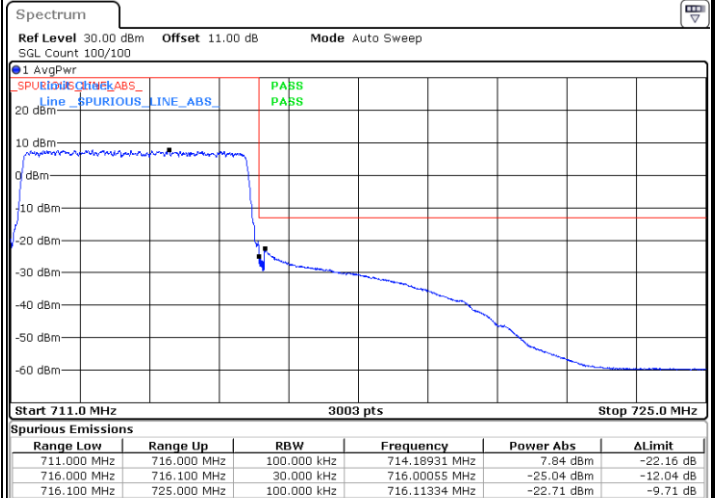
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 20.FEB.2023 12:14:28

Highest Band Edge / Full RB

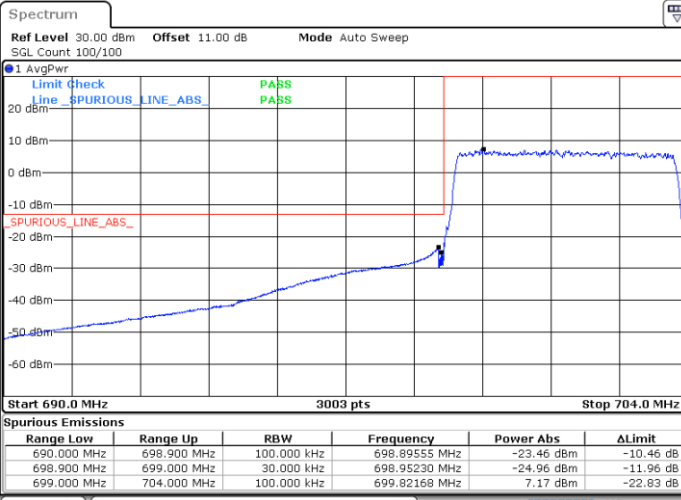


Date: 20.FEB.2023 12:18:07



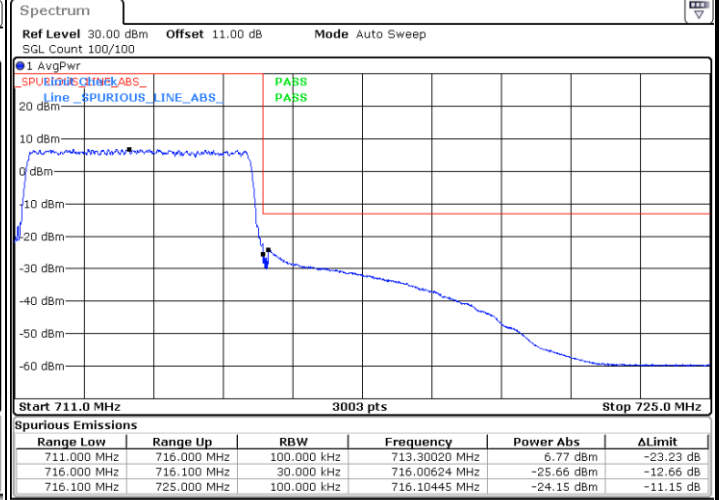
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / Full RB



Date: 20.FEB.2023 12:10:49

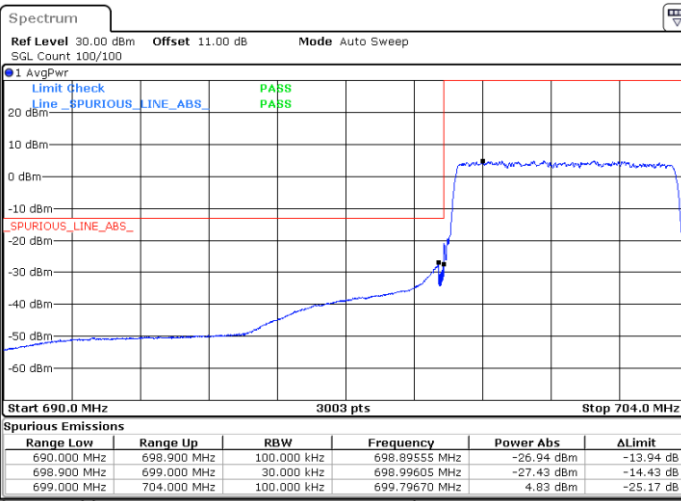
Highest Band Edge / Full RB



Date: 20.FEB.2023 12:12:30

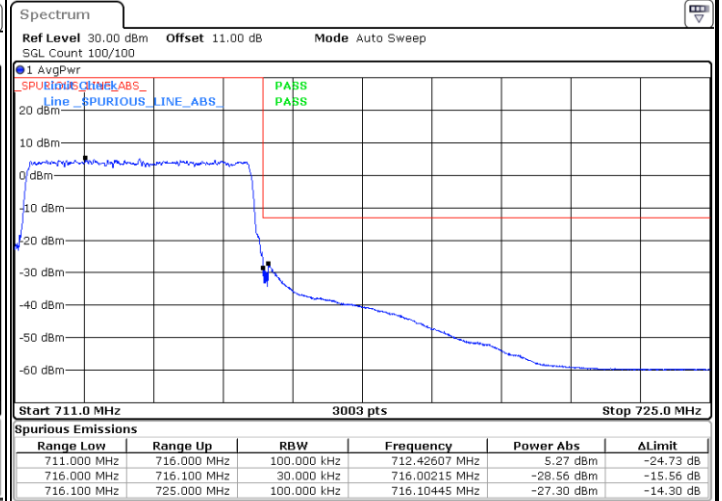
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / Full RB



Date: 20.FEB.2023 17:54:30

Highest Band Edge / Full RB

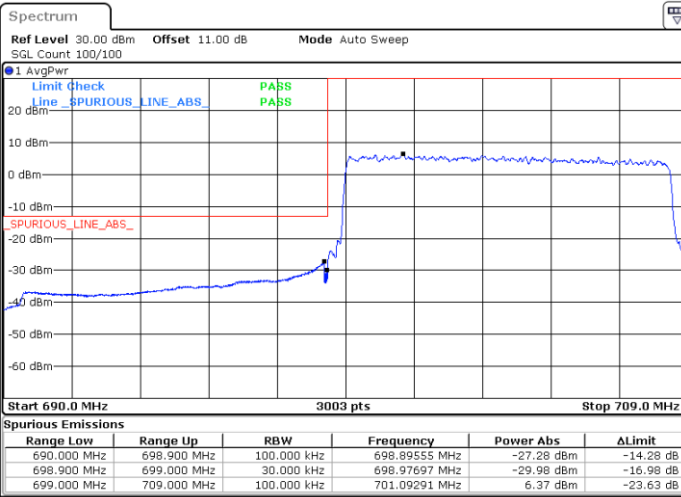


Date: 20.FEB.2023 17:56:23



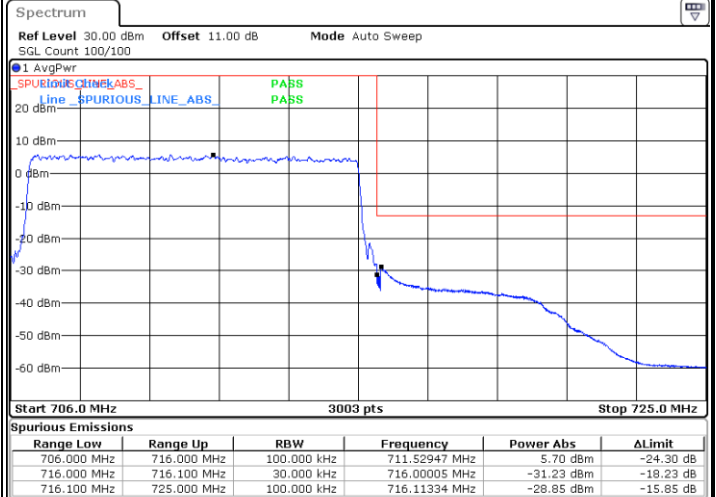
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 20.FEB.2023 12:21:05

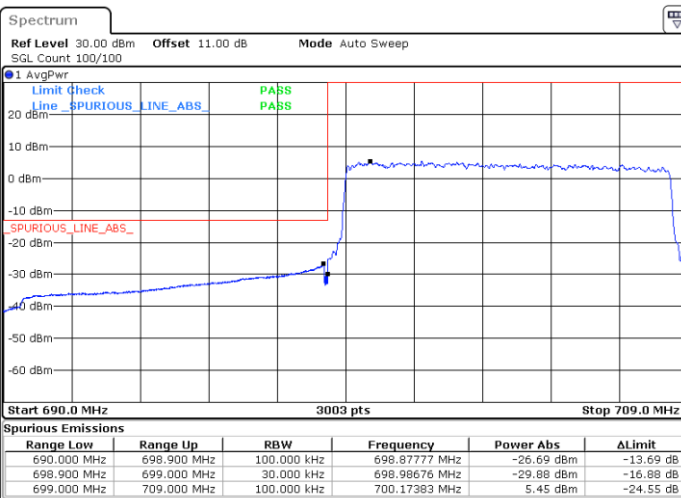
Highest Band Edge / Full RB



Date: 20.FEB.2023 12:24:43

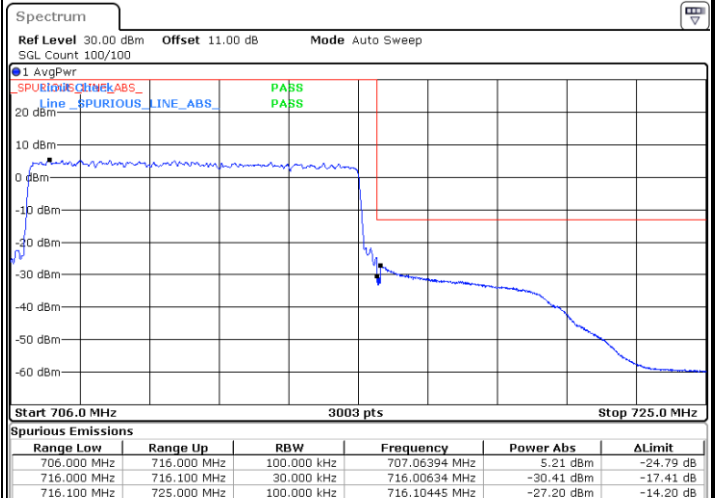
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 20.FEB.2023 12:22:04

Highest Band Edge / Full RB

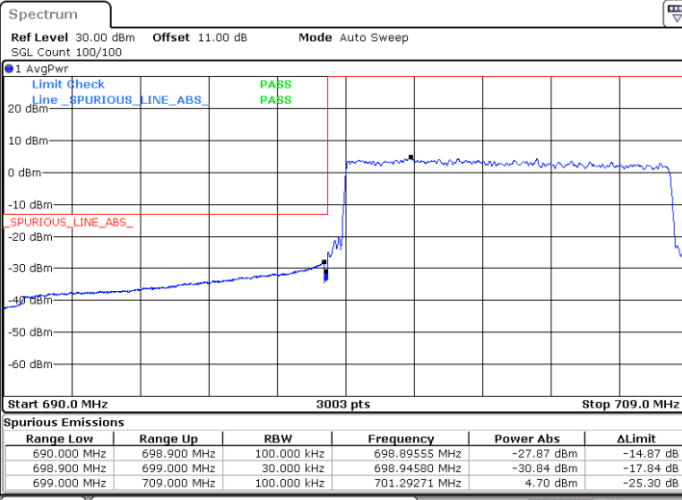


Date: 20.FEB.2023 12:25:41



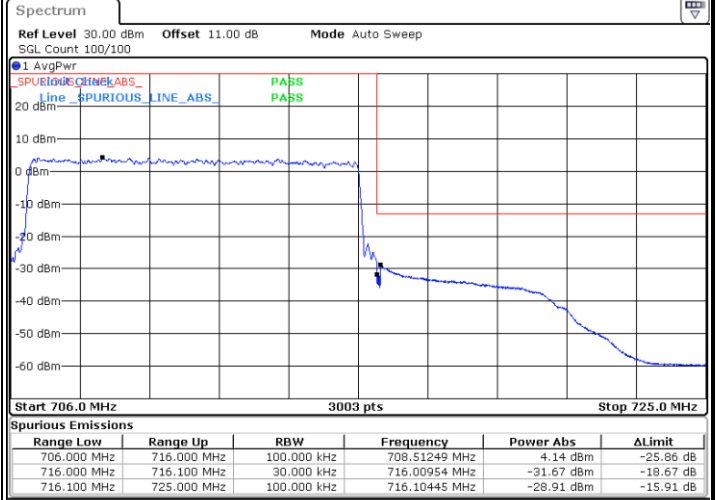
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / Full RB



Date: 20.FEB.2023 12:26:40

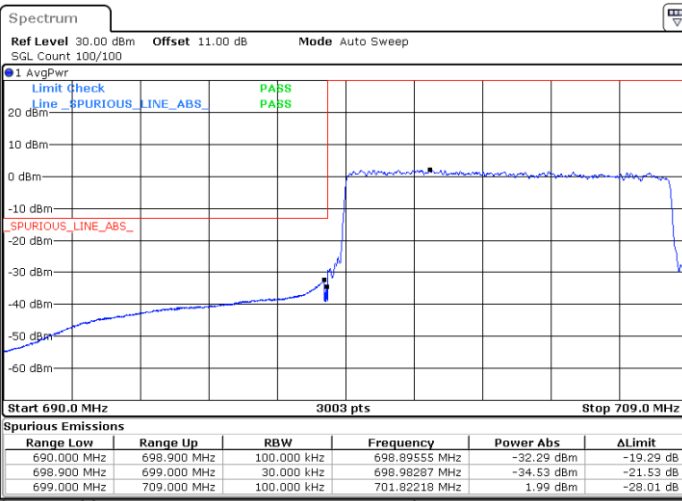
Highest Band Edge / Full RB



Date: 20.FEB.2023 12:28:21

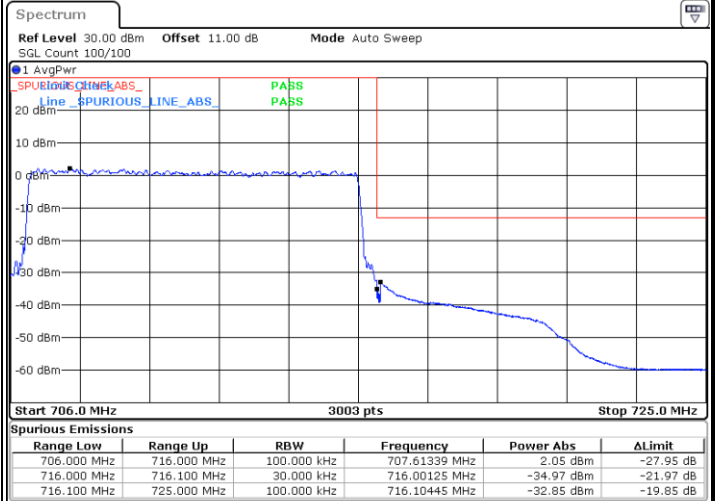
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / Full RB



Date: 20.FEB.2023 17:57:30

Highest Band Edge / Full RB



Date: 20.FEB.2023 17:59:12



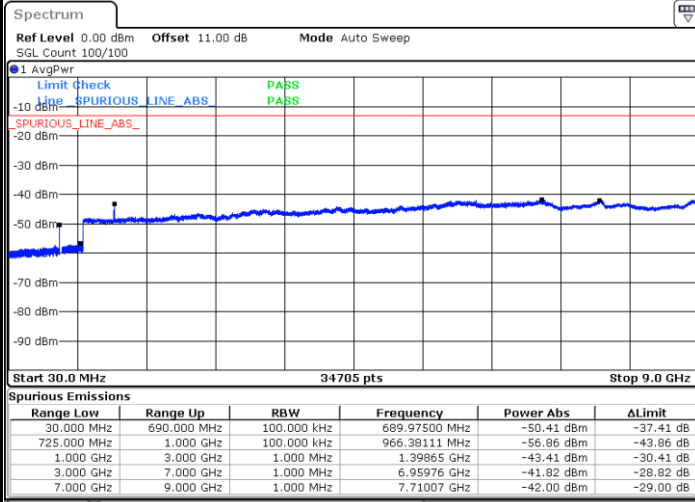
Conducted Spurious Emission





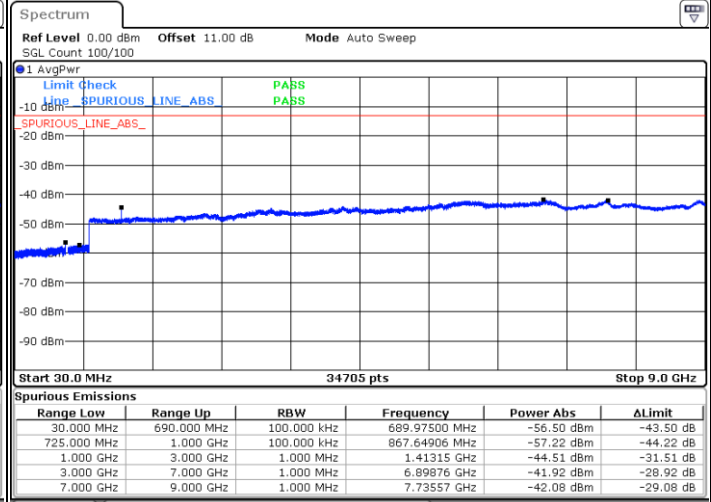
LTE Band 12 / 3MHz

Lowest Channel / QPSK



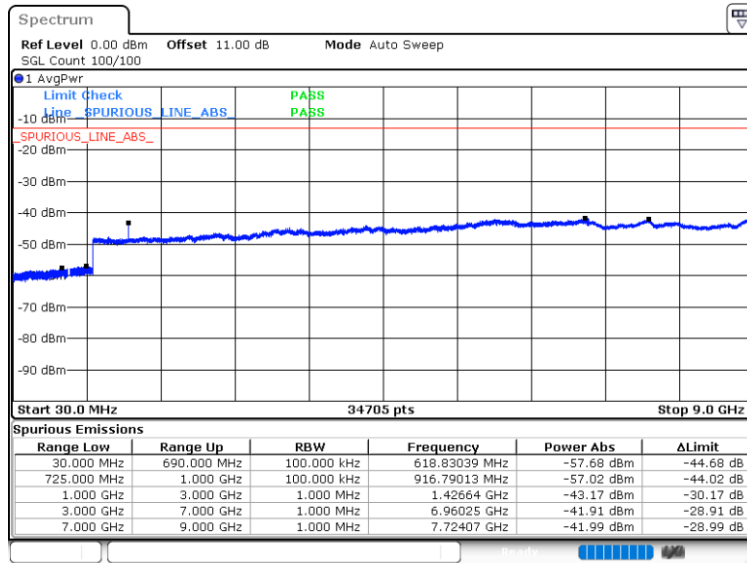
Date: 20.FEB.2023 18:01:06

Middle Channel / QPSK



Date: 20.FEB.2023 18:02:24

Highest Channel / QPSK

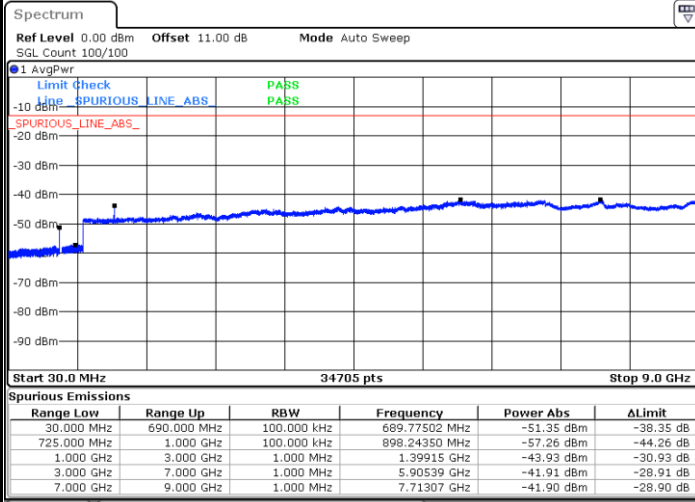


Date: 20.FEB.2023 18:03:42



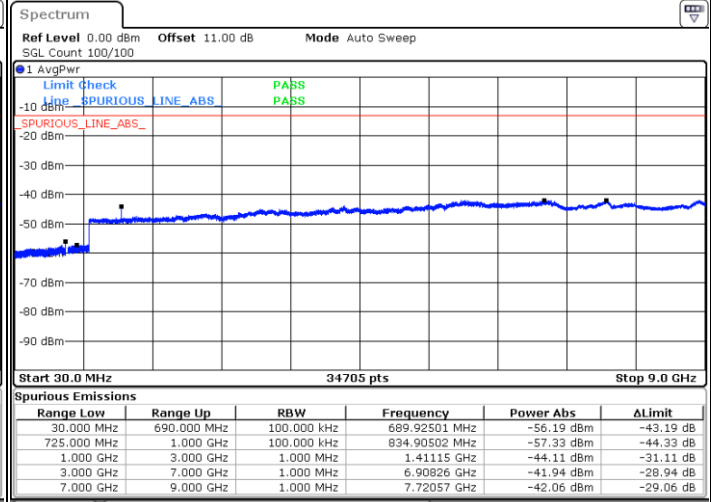
LTE Band 12 / 5MHz

Lowest Channel / QPSK



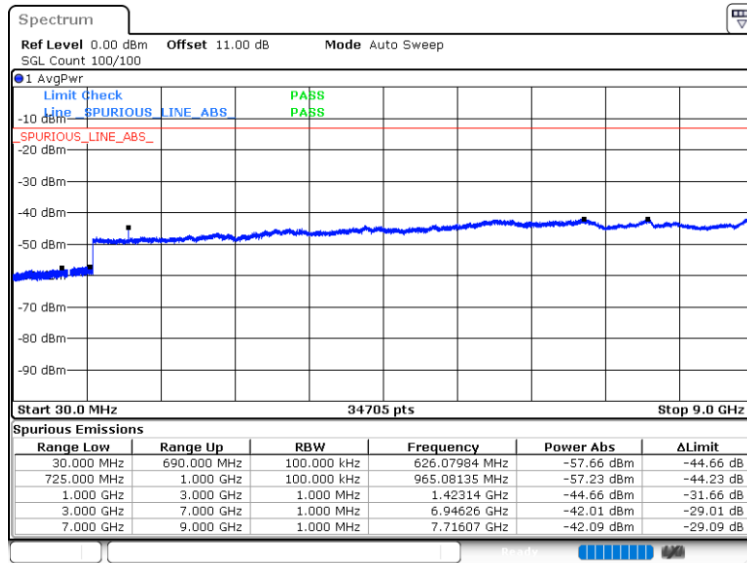
Date: 20.FEB.2023 18:05:07

Middle Channel / QPSK



Date: 20.FEB.2023 18:06:26

Highest Channel / QPSK



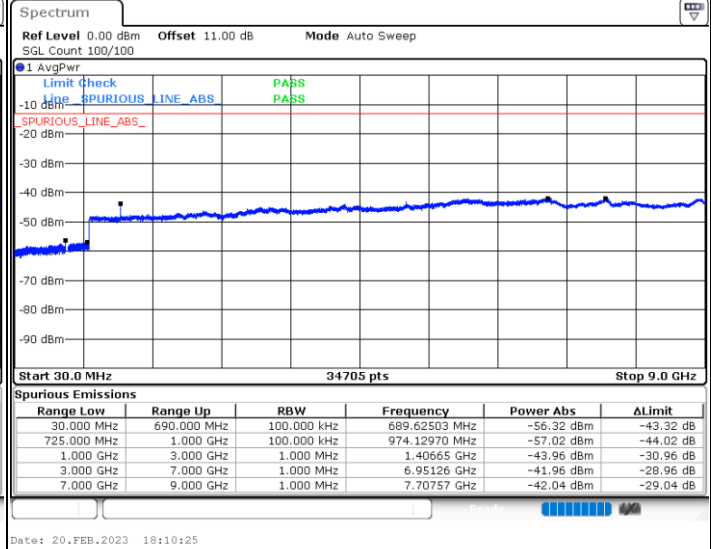
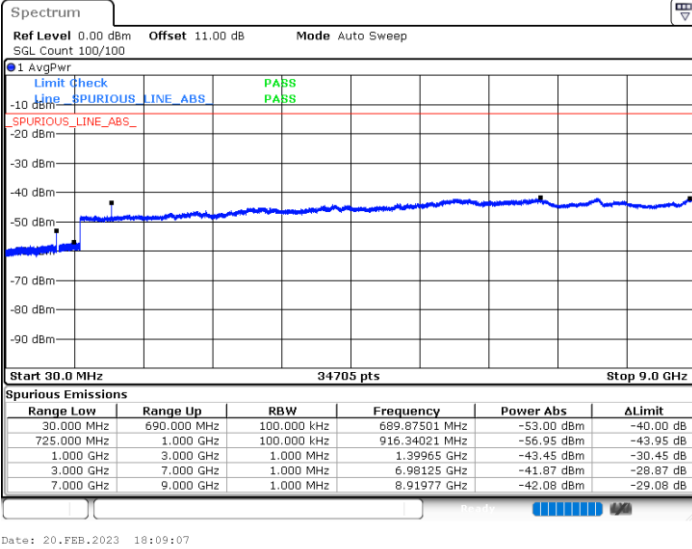
Date: 20.FEB.2023 18:07:44



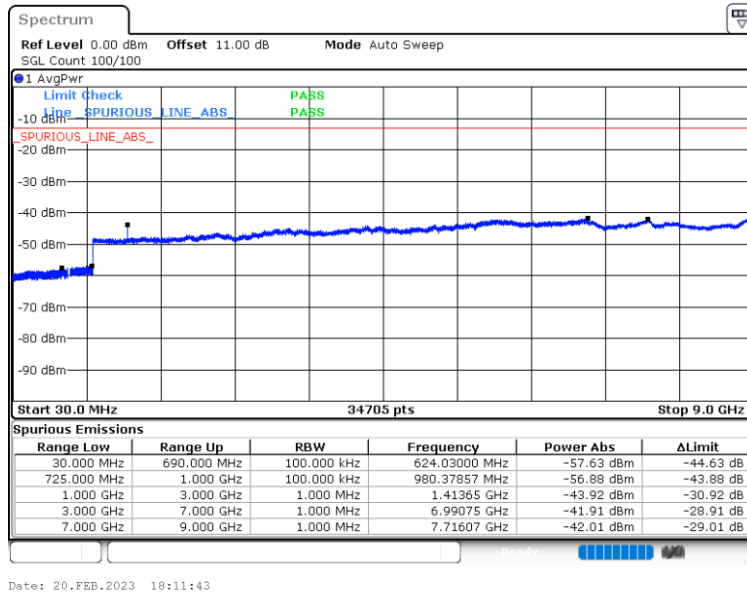
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





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	0.0206	PASS
40	Normal Voltage	0.0146	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0041	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0170	
-30	Normal Voltage	0.0225	
20	Maximum Voltage	0.0086	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0040	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

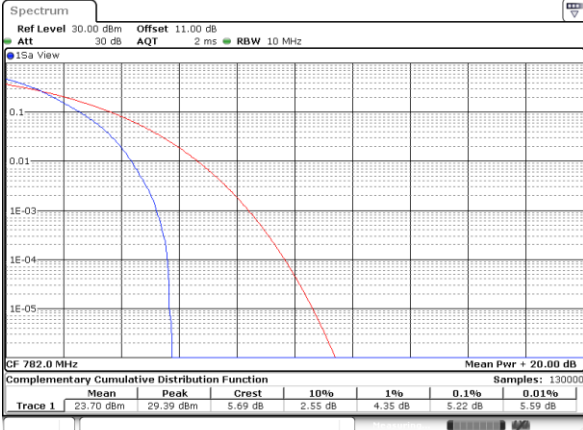
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.22	4.70	5.33	6.75	PASS



LTE Band 13 / 10MHz / QPSK

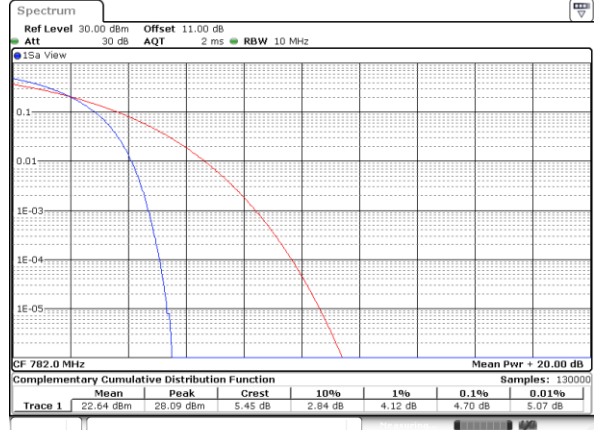
Middle Channel / Full RB



Date: 15.FEB.2023 17:32:41

LTE Band 13 / 10MHz / 16QAM

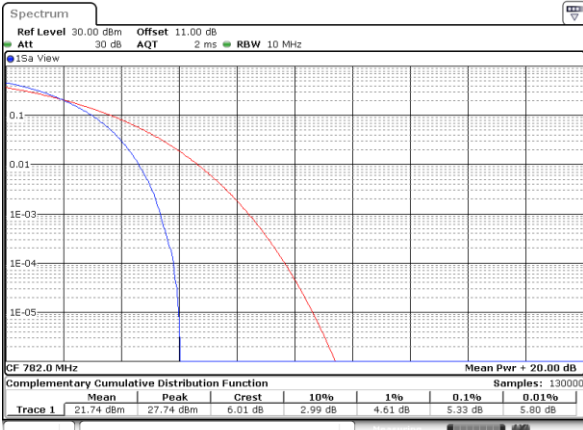
Middle Channel / Full RB



Date: 15.FEB.2023 17:32:11

LTE Band 13 / 10MHz / 64QAM

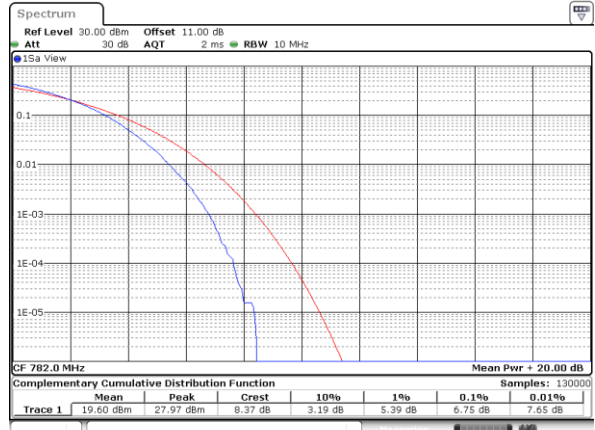
Middle Channel / Full RB



Date: 15.FEB.2023 17:31:39

LTE Band 13 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 15.FEB.2023 17:39:12



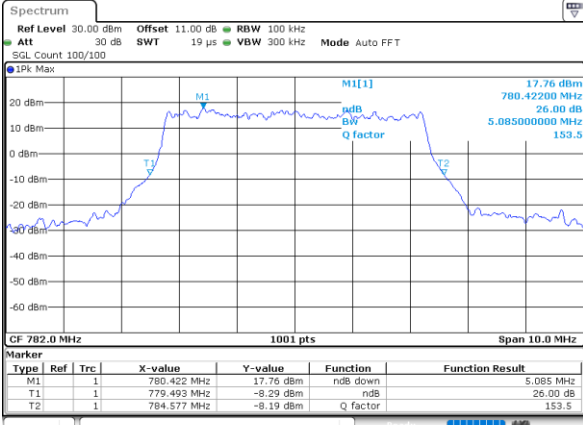
26dB Bandwidth

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
Middle CH	-	-	-	-	5.09	5.20	9.89	10.37	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	5.12	5.16	10.09	9.95	-	-	-	-



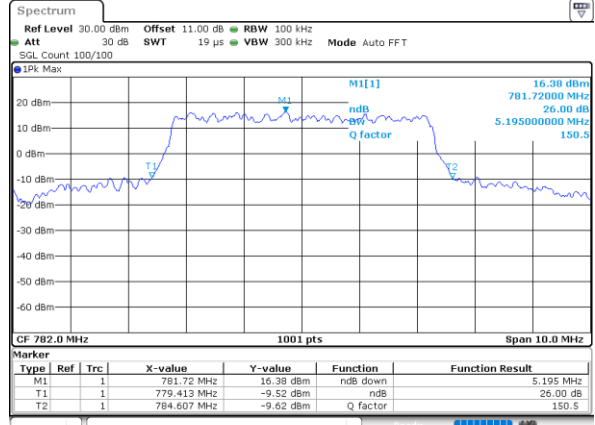
LTE Band 13

Middle Channel / 5MHz / QPSK



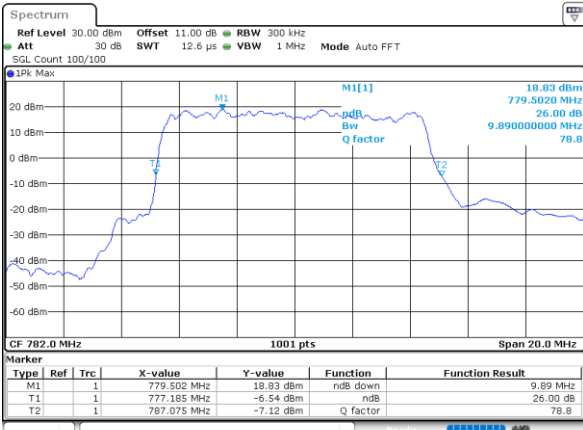
Date: 15.FEB.2023 17:15:22

Middle Channel / 5MHz / 16QAM



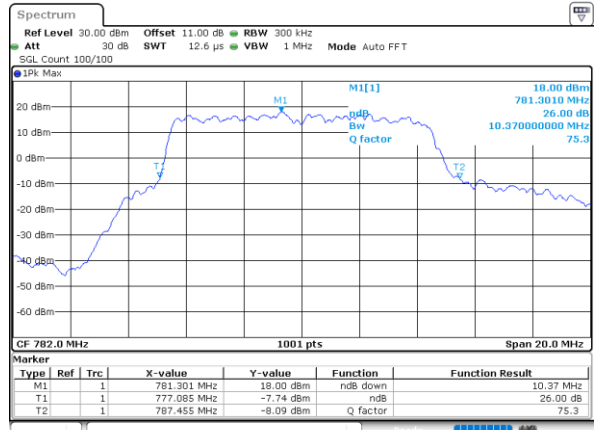
Date: 15.FEB.2023 17:15:51

Middle Channel / 10MHz / QPSK



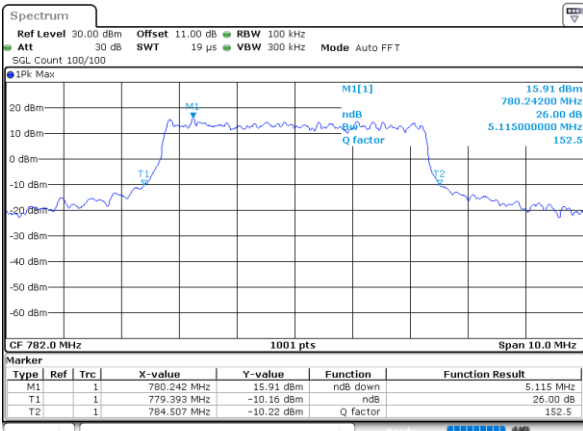
Date: 15.FEB.2023 17:28:16

Middle Channel / 10MHz / 16QAM



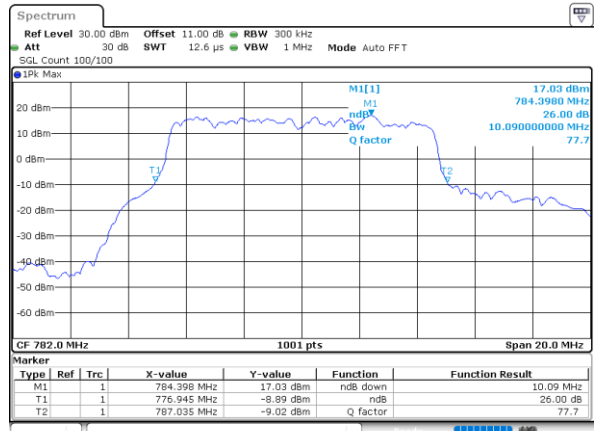
Date: 15.FEB.2023 17:27:47

Middle Channel / 5MHz / 64QAM



Date: 15.FEB.2023 17:24:16

Middle Channel / 10MHz / 64QAM



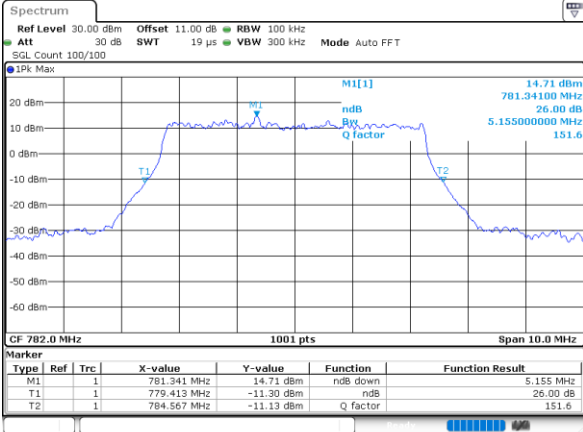
Date: 15.FEB.2023 17:30:41



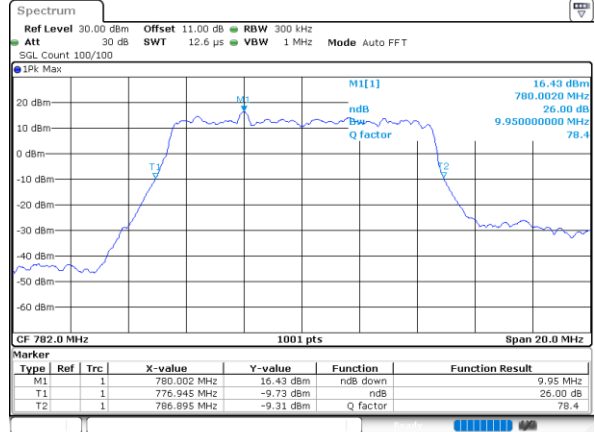
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 15.FEB.2023 17:35:13



Date: 15.FEB.2023 17:38:13



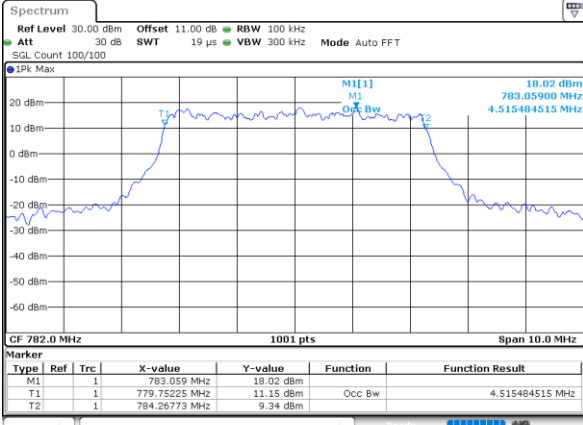
Occupied Bandwidth

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
Middle CH	-	-	-	-	4.52	4.52	9.01	9.03	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.51	4.51	9.15	9.01	-	-	-	-



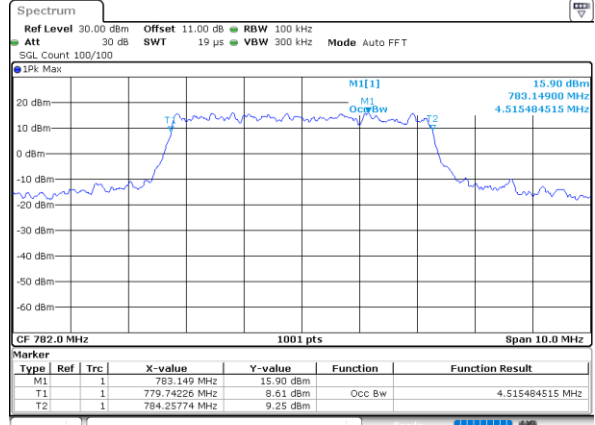
LTE Band 13

Middle Channel / 5MHz / QPSK



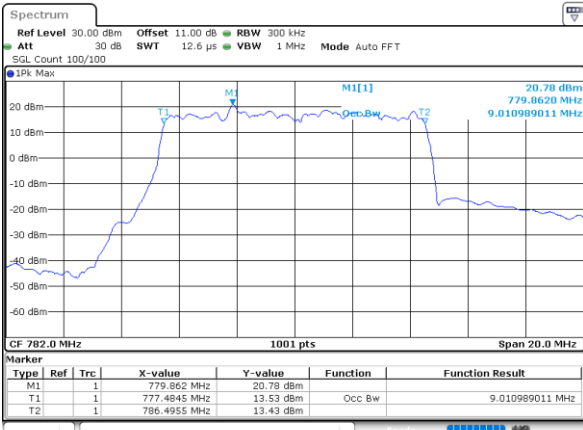
Date: 15.FEB.2023 17:16:35

Middle Channel / 5MHz / 16QAM



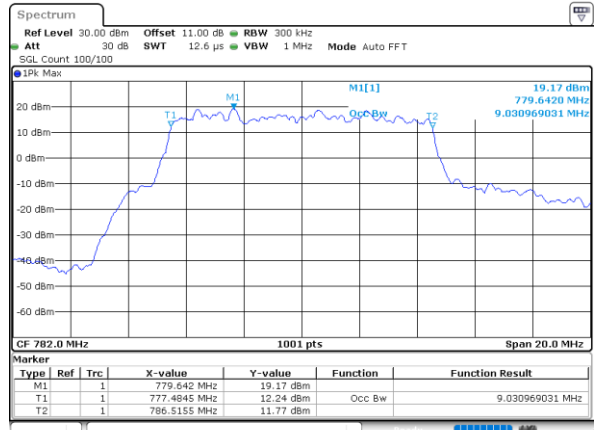
Date: 15.FEB.2023 17:16:05

Middle Channel / 10MHz / QPSK



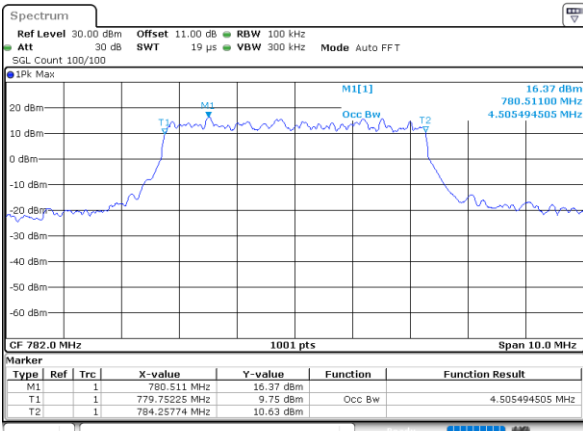
Date: 15.FEB.2023 17:27:02

Middle Channel / 10MHz / 16QAM



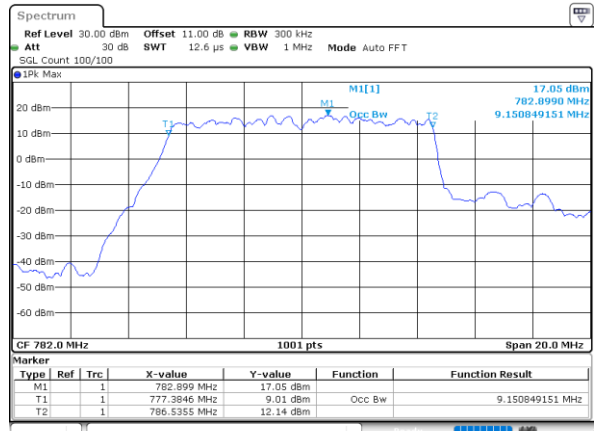
Date: 15.FEB.2023 17:27:33

Middle Channel / 5MHz / 64QAM



Date: 15.FEB.2023 17:24:30

Middle Channel / 10MHz / 64QAM

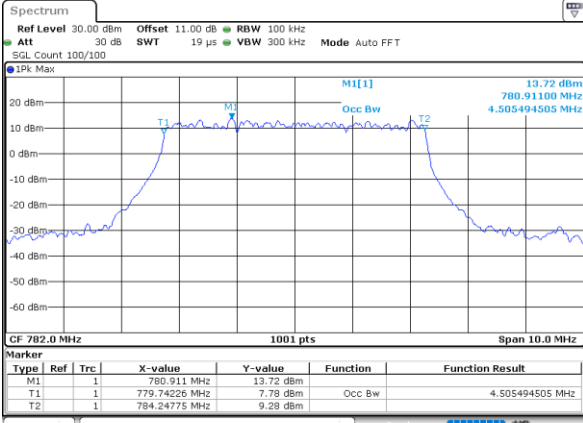


Date: 15.FEB.2023 17:30:27



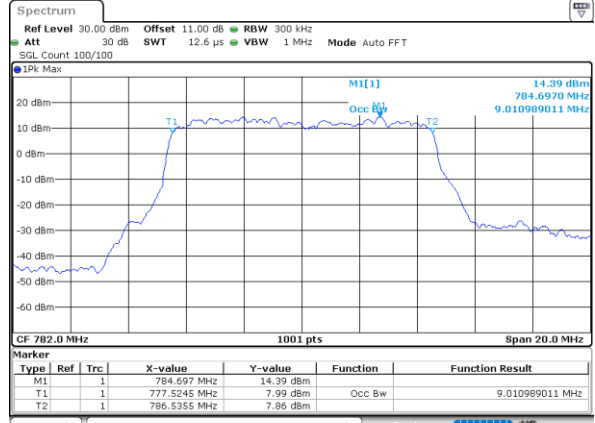
LTE Band 13

Middle Channel / 5MHz / 256QAM



Date: 15.FEB.2023 17:35:27

Middle Channel / 10MHz / 256QAM



Date: 15.FEB.2023 17:37:59

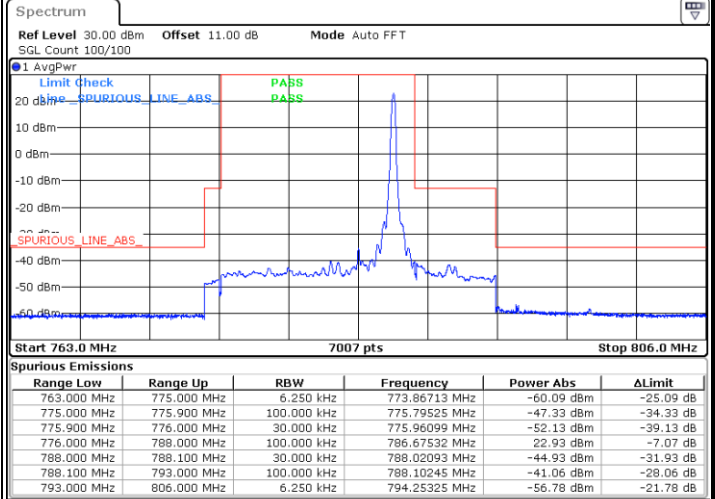
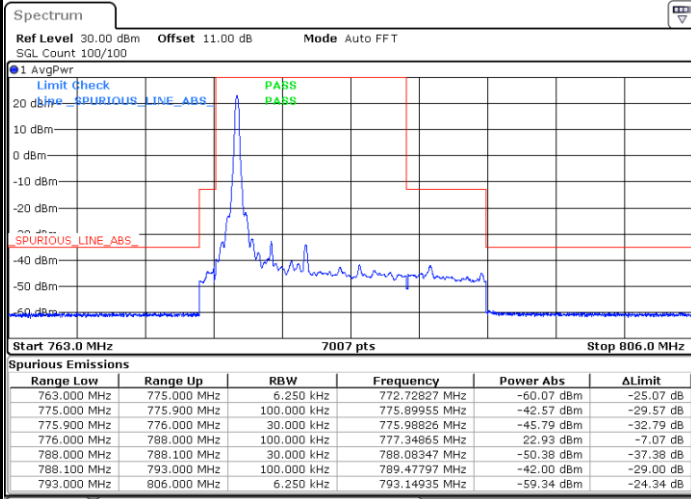


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

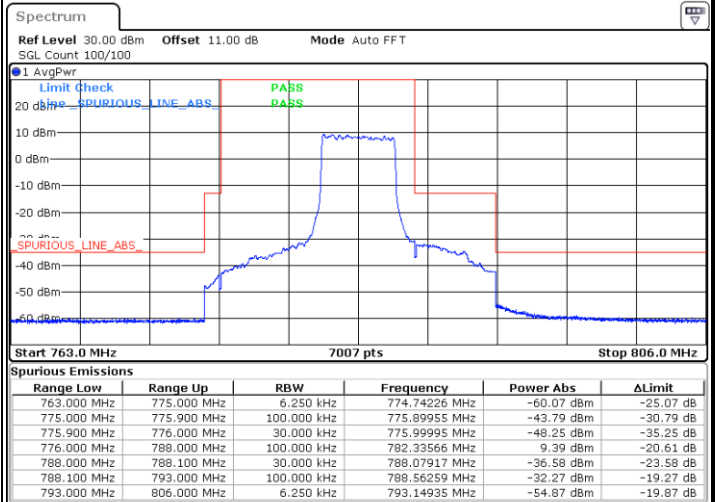
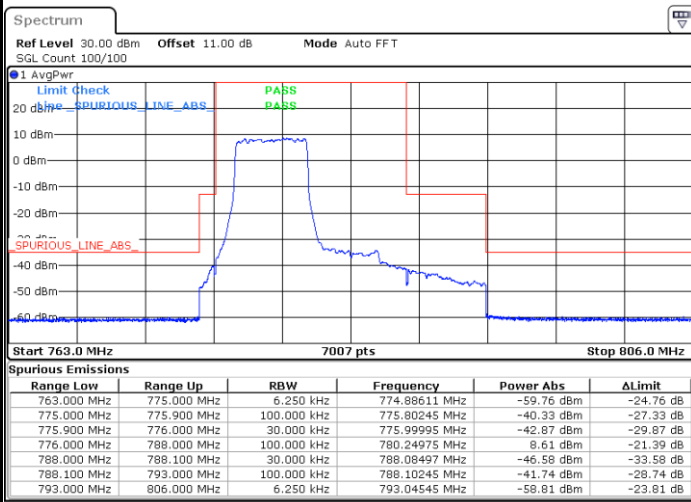


Date: 15.FEB.2023 17:12:32

Date: 15.FEB.2023 17:20:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.FEB.2023 17:09:34

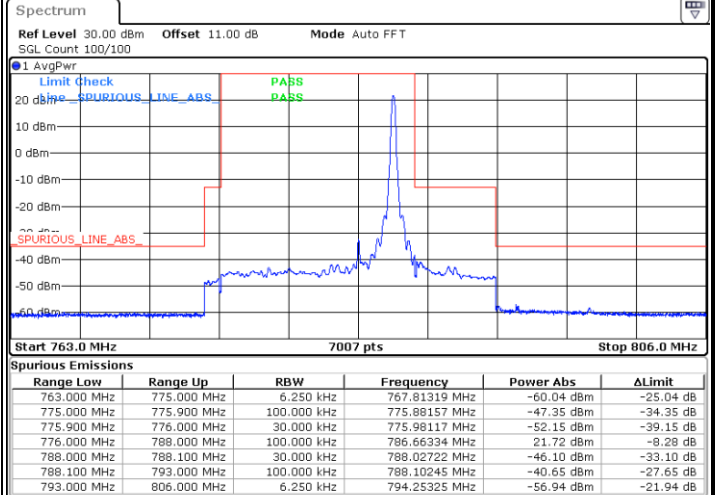
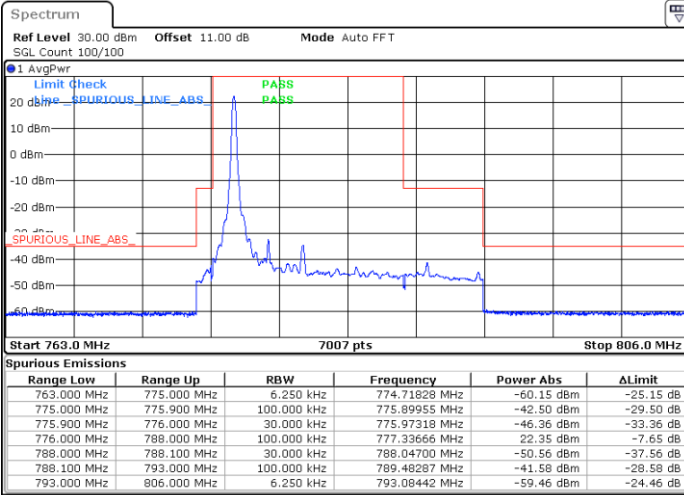
Date: 15.FEB.2023 17:17:33



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

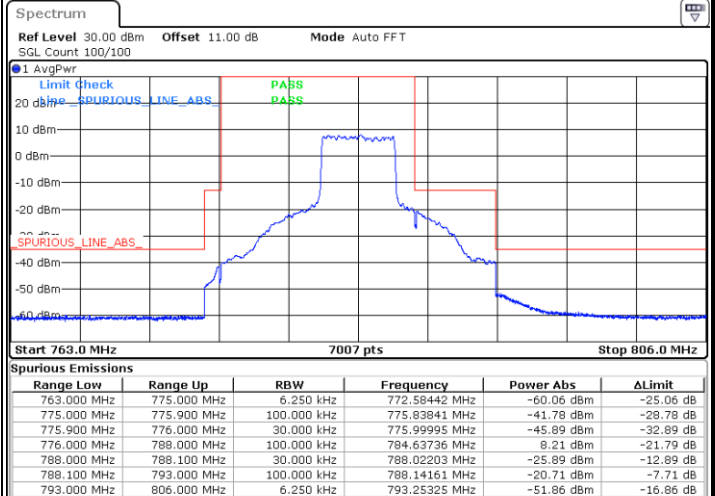
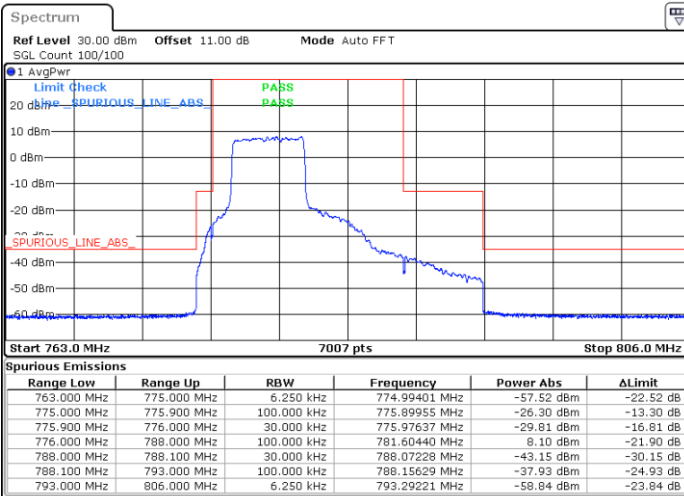


Date: 15.FEB.2023 17:11:33

Date: 15.FEB.2023 17:19:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.FEB.2023 17:10:33

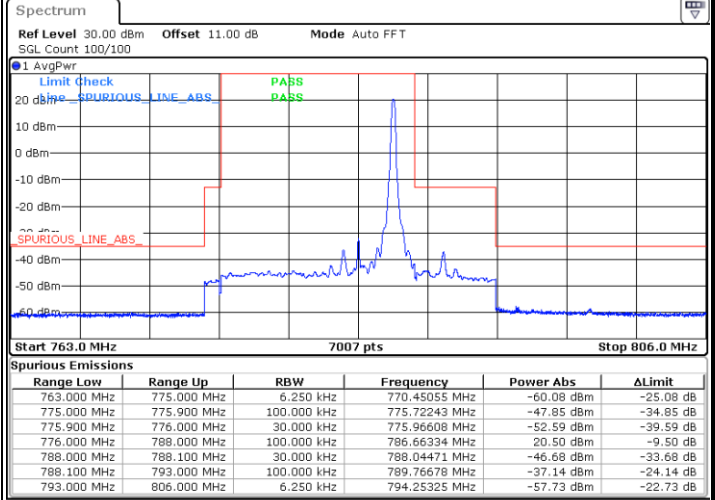
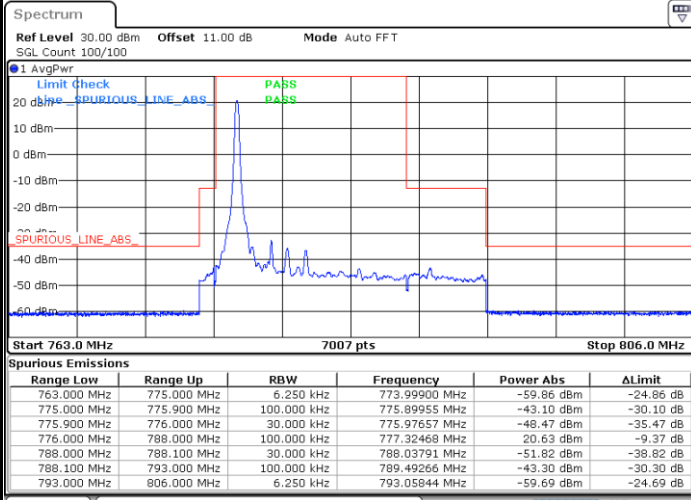
Date: 15.FEB.2023 17:18:32



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

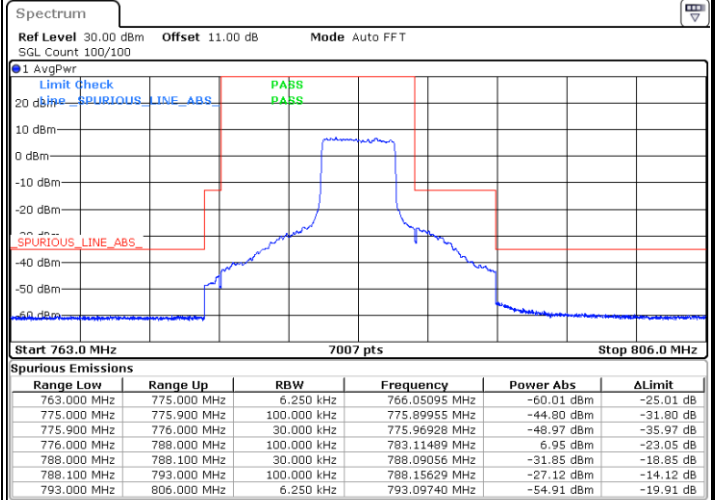
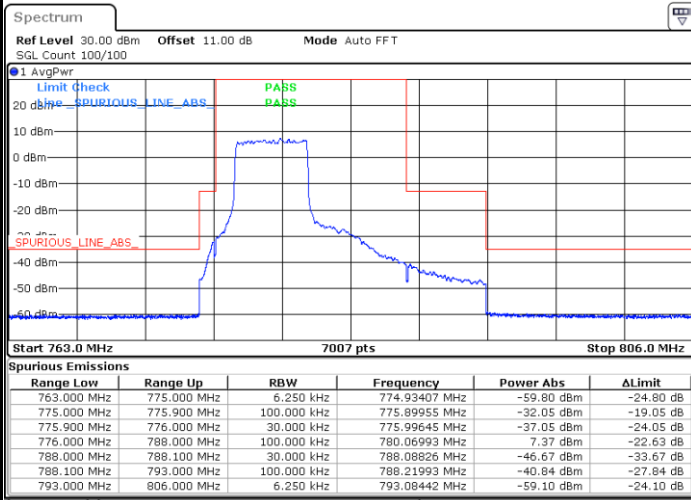


Date: 15.FEB.2023 17:23:46

Date: 15.FEB.2023 17:26:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.FEB.2023 17:22:48

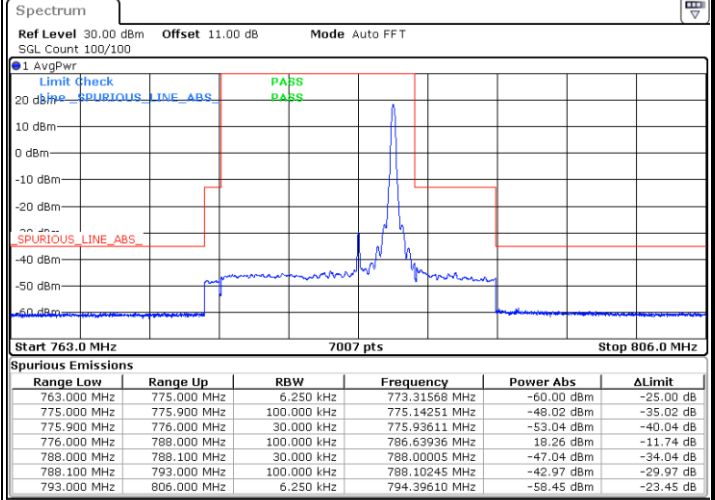
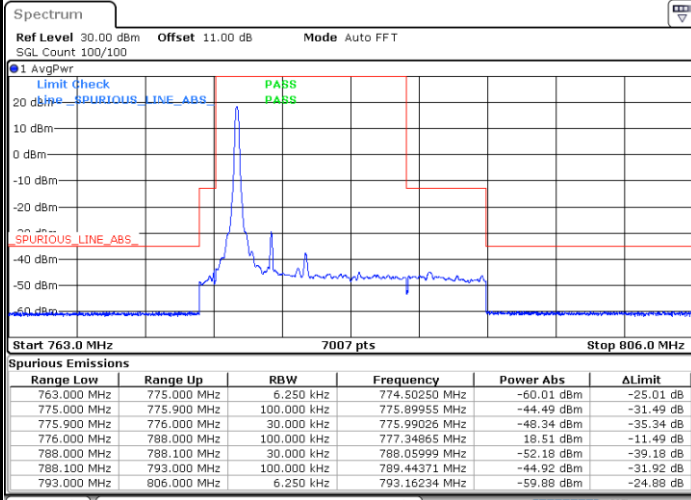
Date: 15.FEB.2023 17:25:28



LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

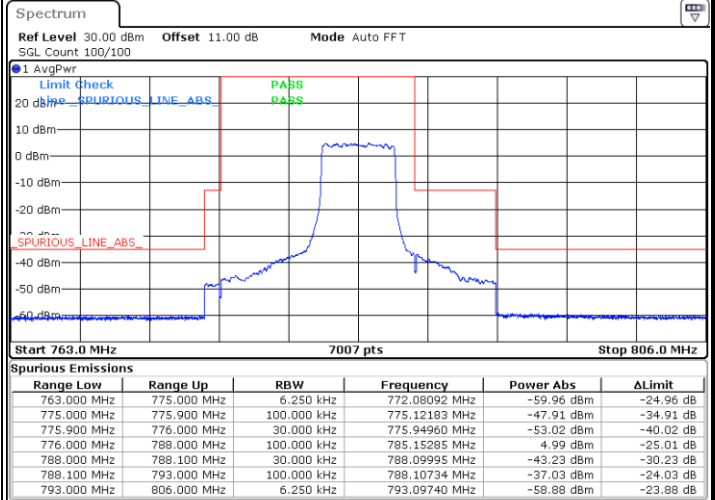
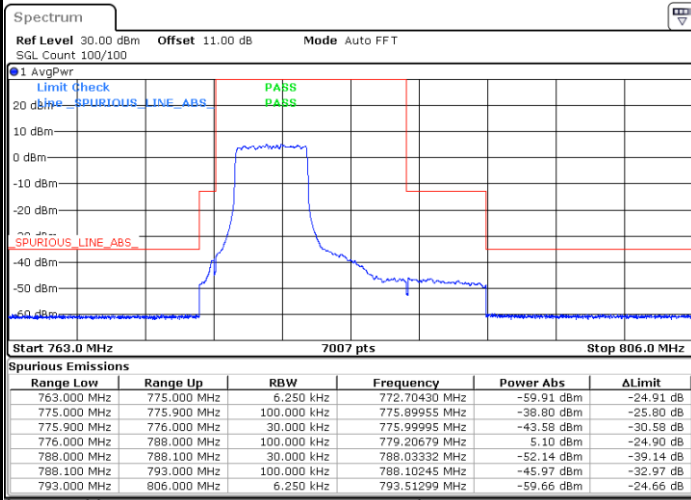


Date: 15.FEB.2023 17:34:43

Date: 15.FEB.2023 17:37:24

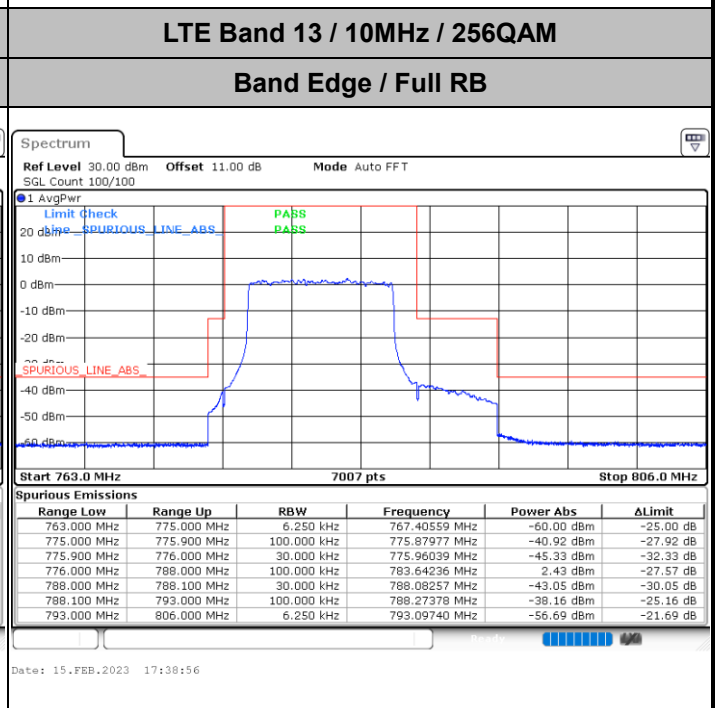
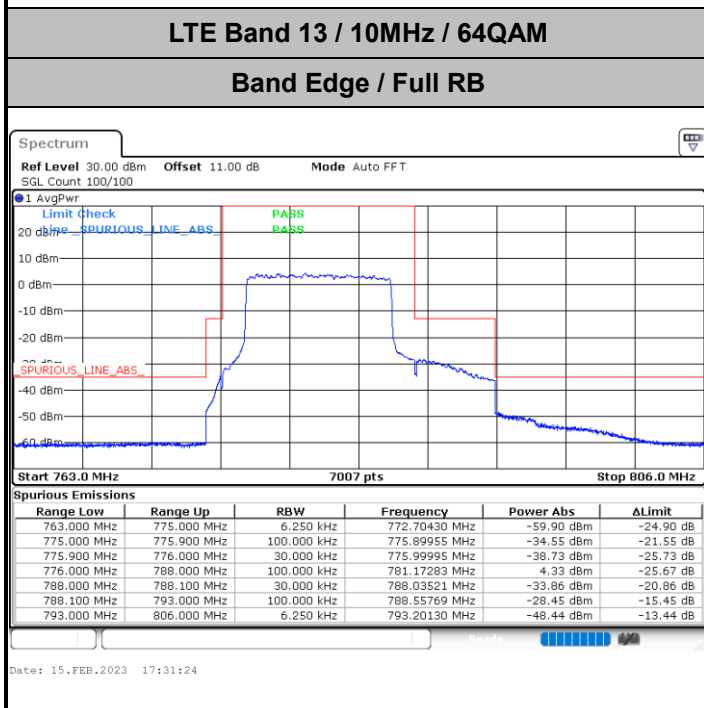
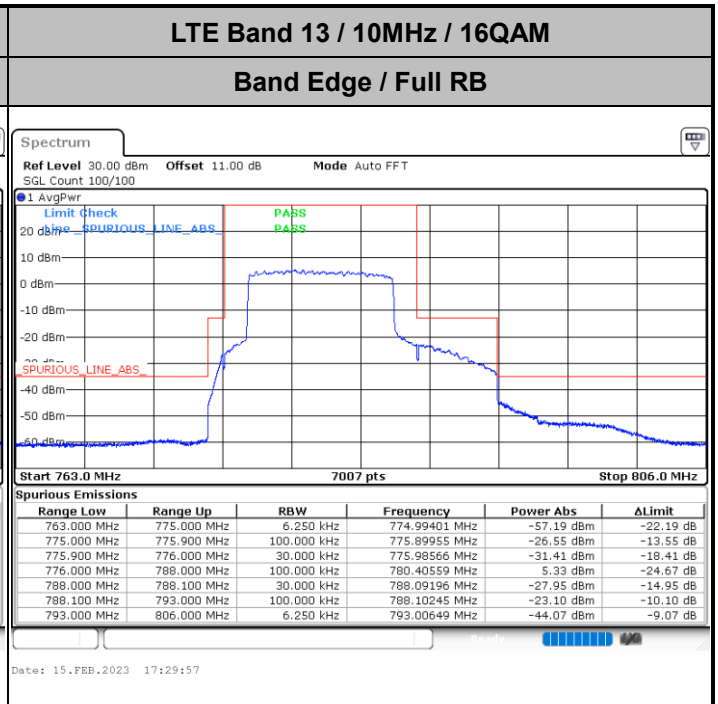
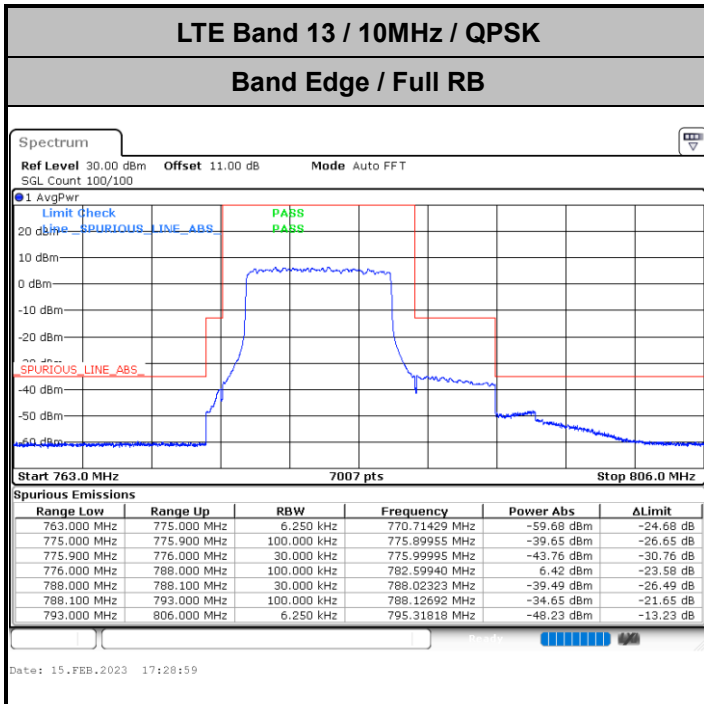
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.FEB.2023 17:33:45

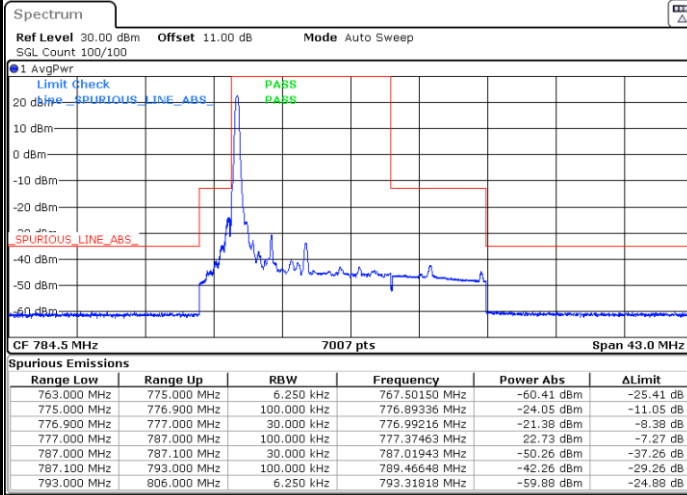
Date: 15.FEB.2023 17:36:25





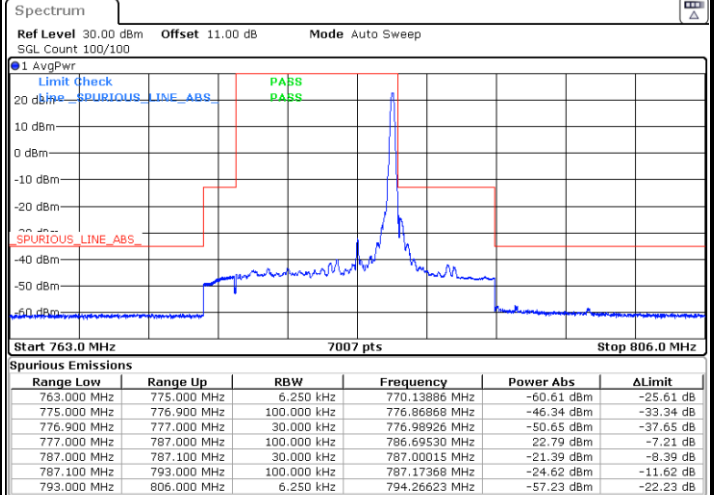
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



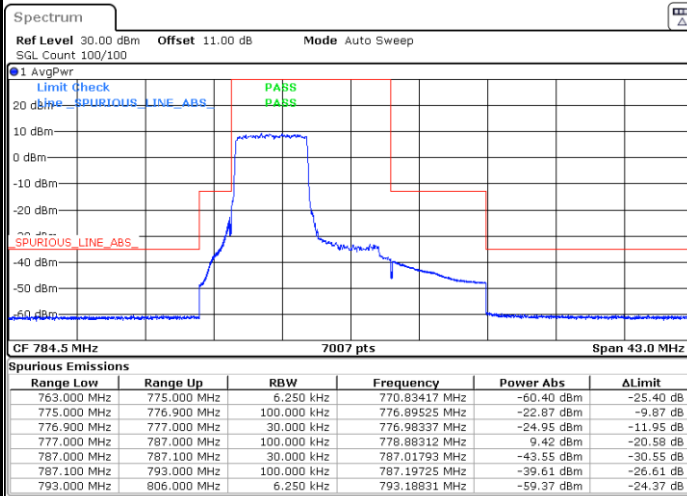
Date: 24.FEB.2023 21:34:28

Highest Band Edge / 1 RB



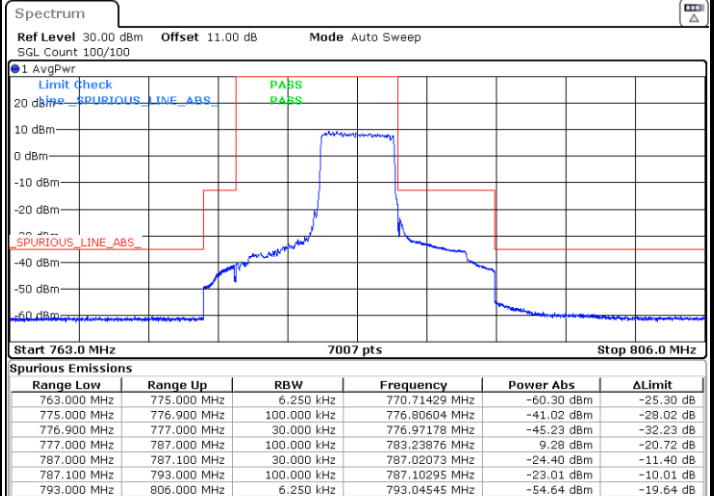
Date: 24.FEB.2023 21:38:22

Lowest Band Edge / Full RB



Date: 24.FEB.2023 21:31:32

Highest Band Edge / Full RB



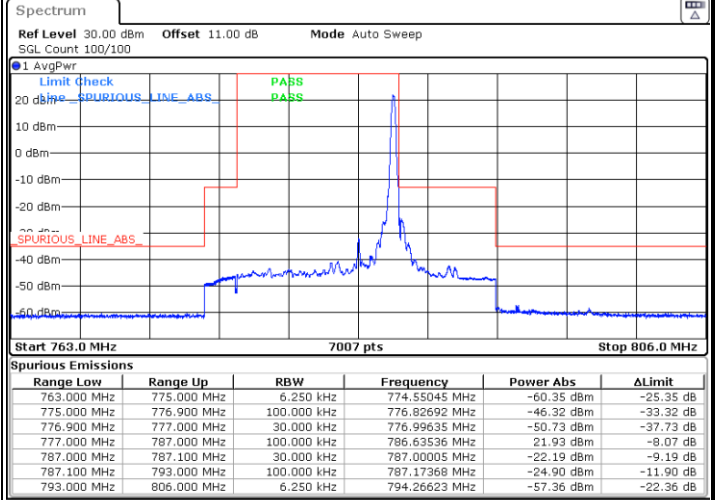
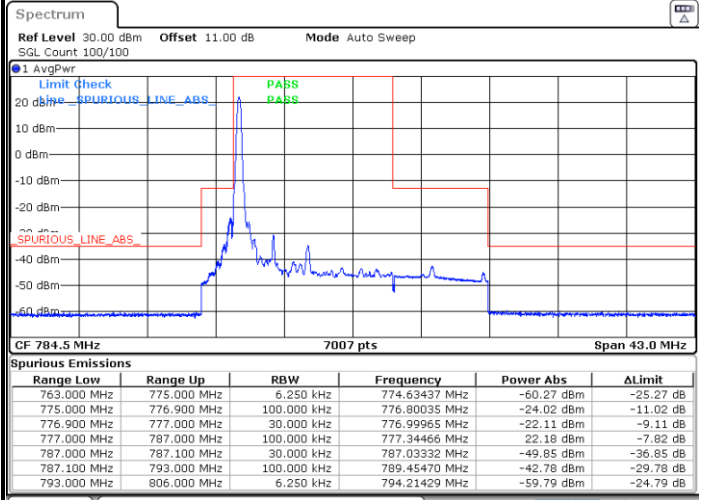
Date: 24.FEB.2023 21:35:27



IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

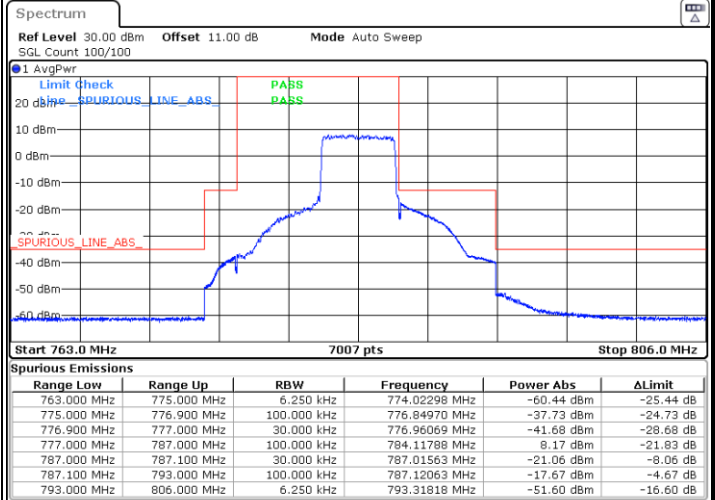
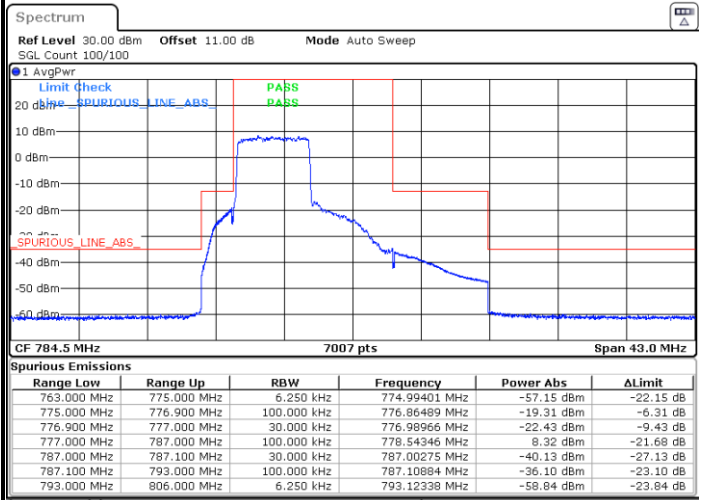


Date: 24.FEB.2023 21:33:30

Date: 24.FEB.2023 21:37:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



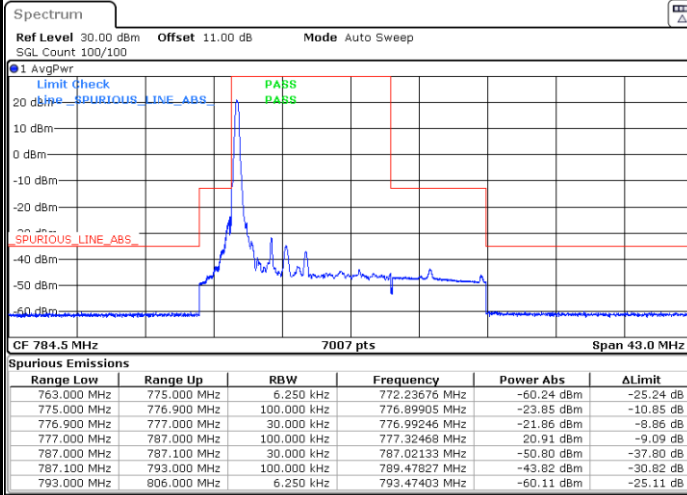
Date: 24.FEB.2023 21:32:31

Date: 24.FEB.2023 21:36:26



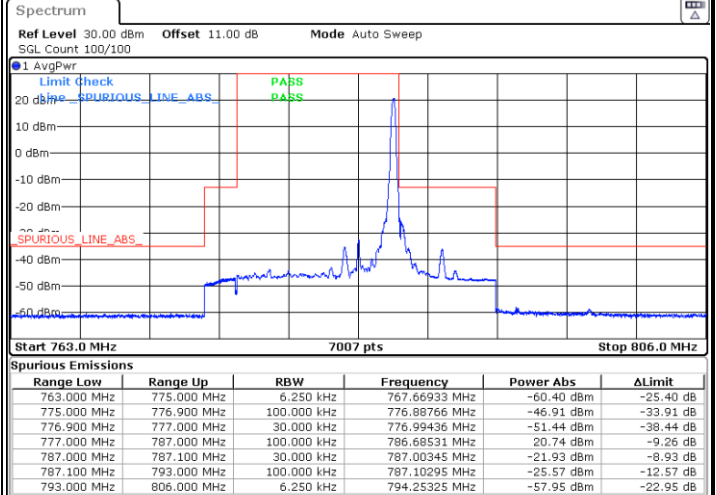
IC LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



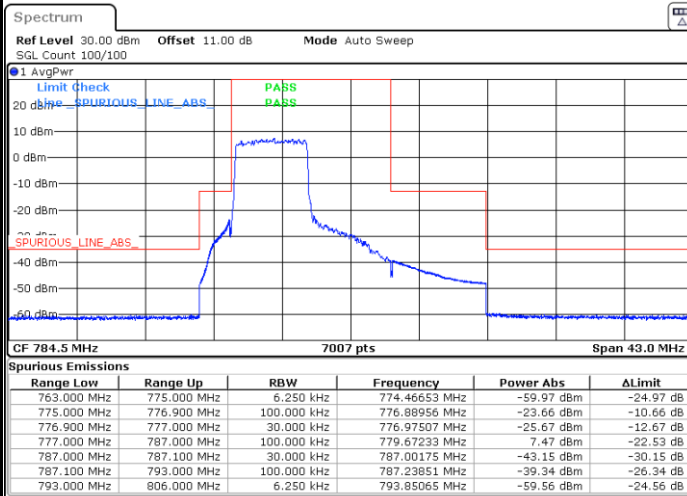
Date: 24.FEB.2023 21:40:19

Highest Band Edge / 1 RB



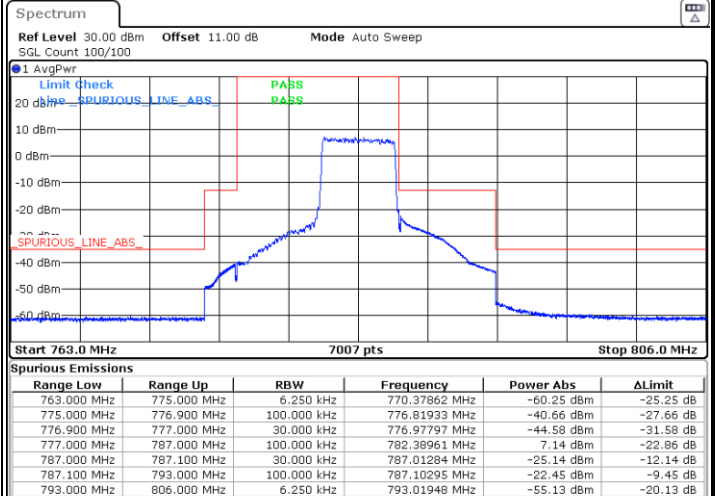
Date: 24.FEB.2023 21:42:17

Lowest Band Edge / Full RB



Date: 24.FEB.2023 21:39:21

Highest Band Edge / Full RB



Date: 24.FEB.2023 21:41:18