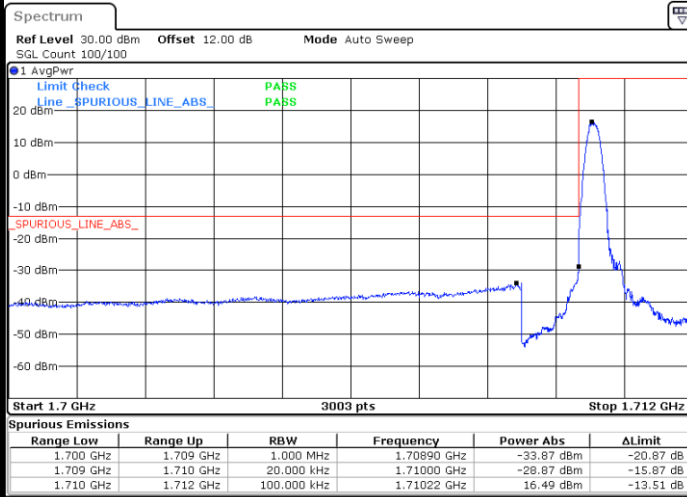




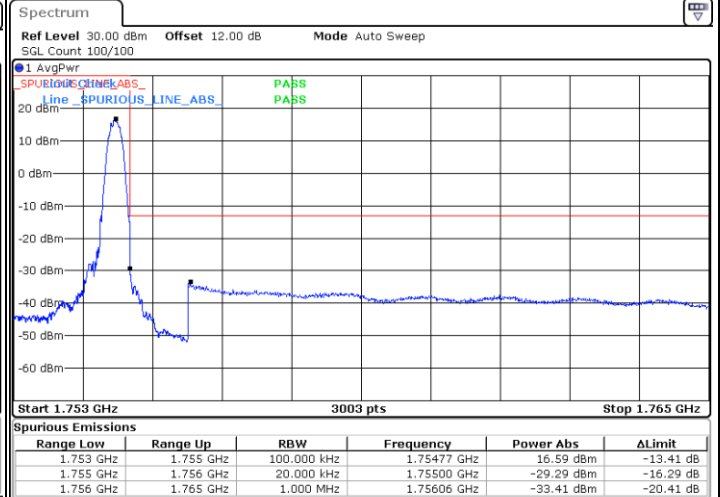
LTE Band 4 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



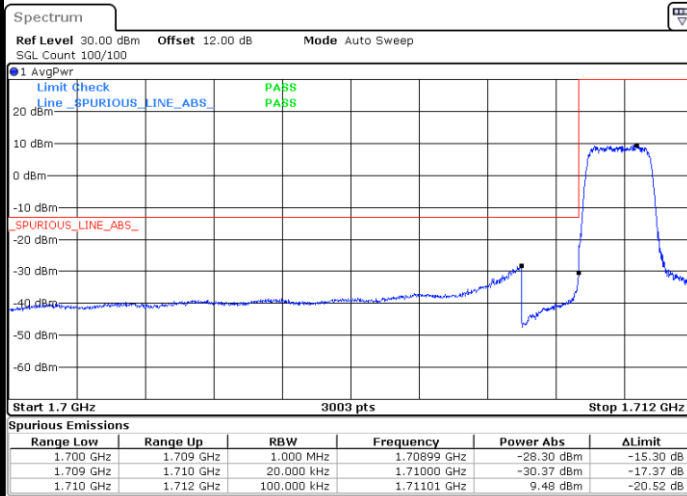
Date: 15.MAR.2023 00:19:56

Highest Band Edge / 1 RB



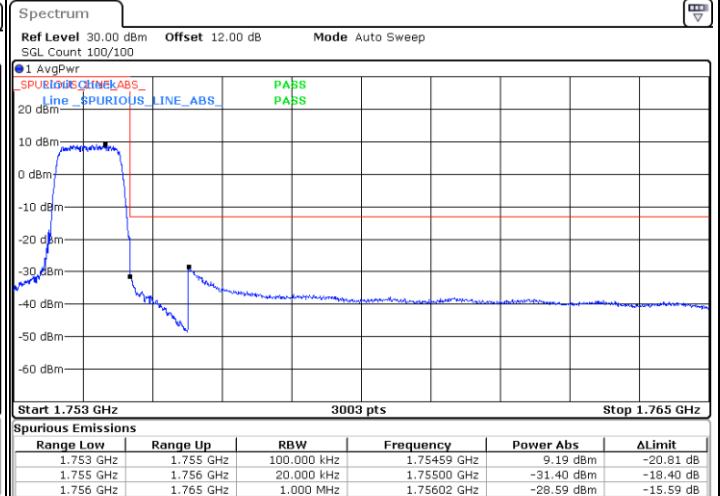
Date: 15.MAR.2023 00:23:17

Lowest Band Edge / Full RB



Date: 15.MAR.2023 00:21:15

Highest Band Edge / Full RB



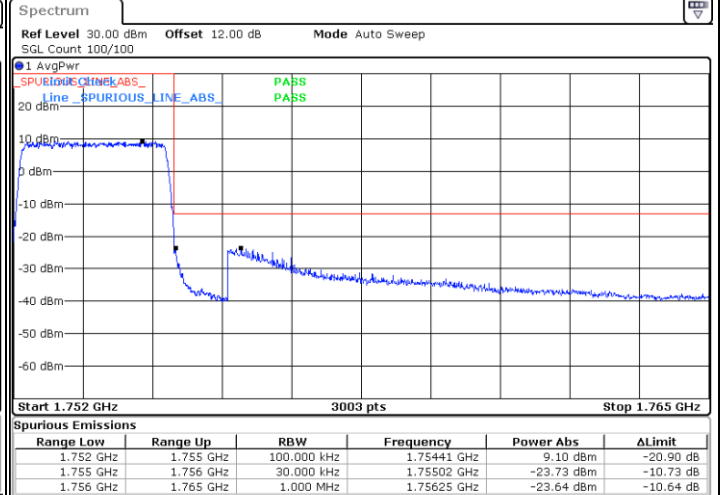
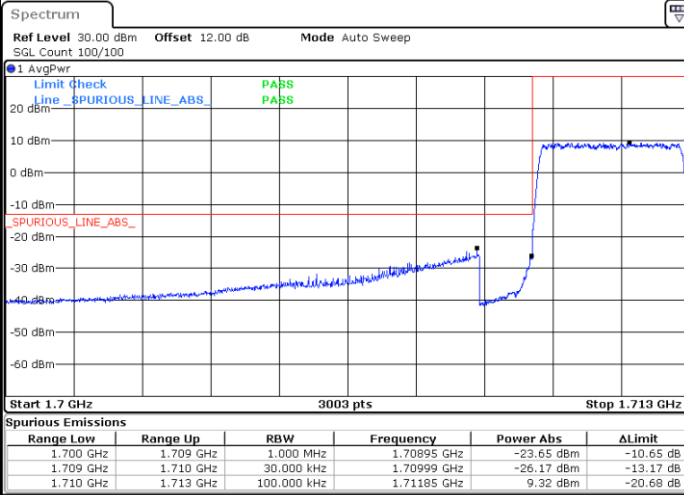
Date: 15.MAR.2023 00:24:36



LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



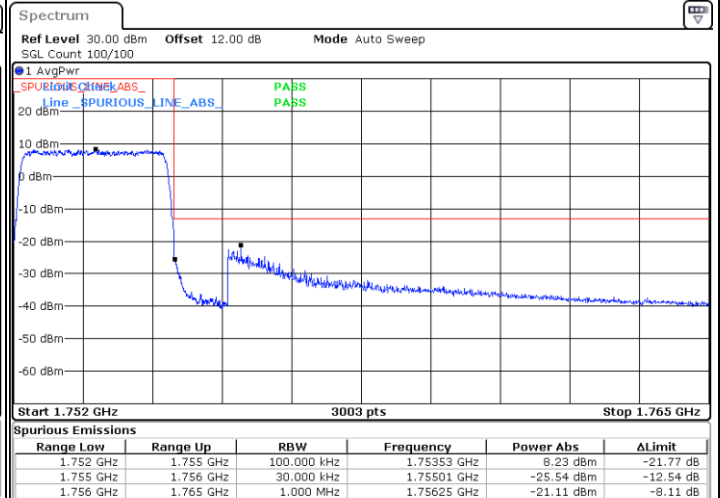
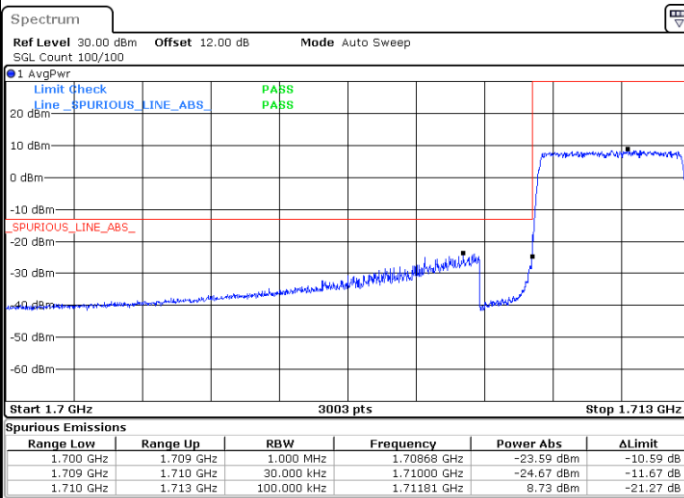
Date: 14.MAR.2023 22:56:11

Date: 14.MAR.2023 23:03:38

LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAR.2023 22:57:30

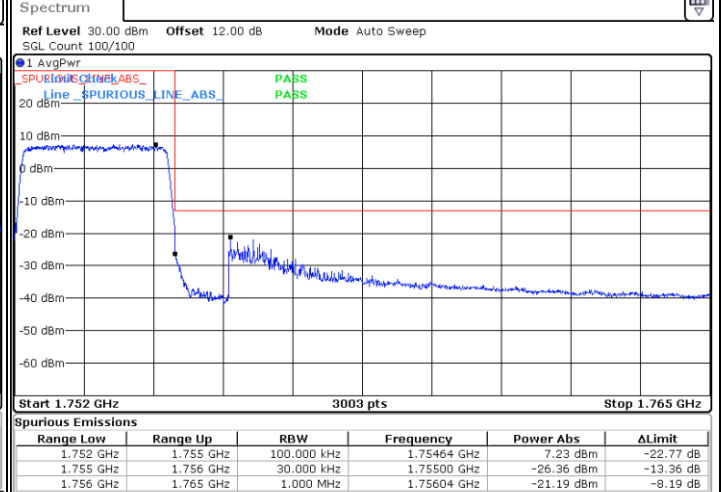
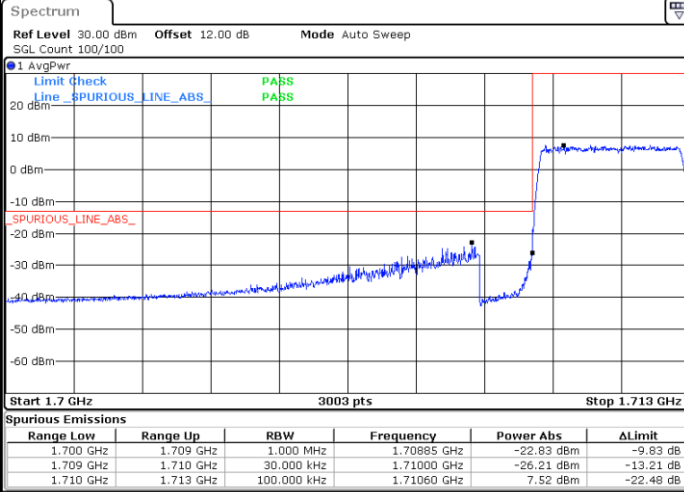
Date: 14.MAR.2023 23:04:56



LTE Band 4 / 3MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



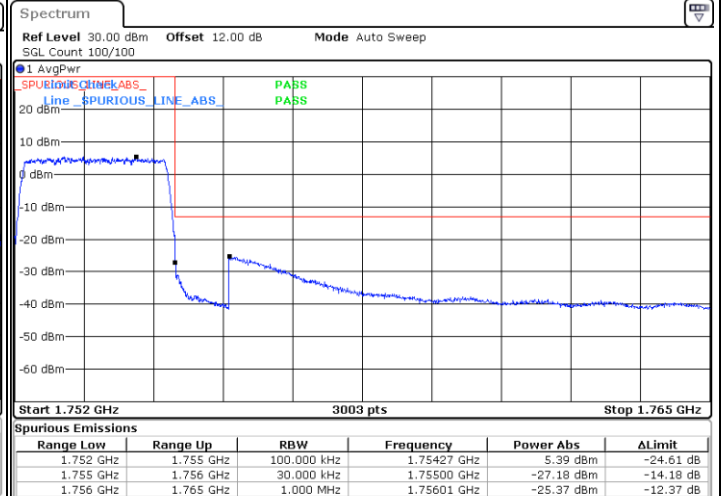
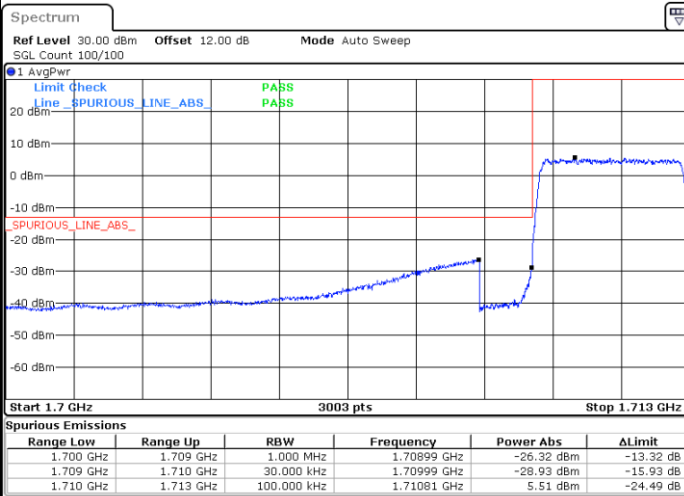
Date: 14.MAR.2023 23:06:16

Date: 14.MAR.2023 23:06:17

LTE Band 4 / 3MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



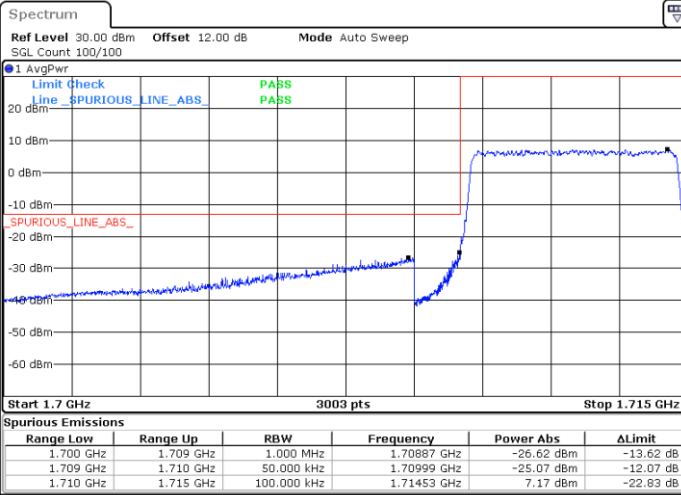
Date: 15.MAR.2023 00:26:00

Date: 15.MAR.2023 00:26:02



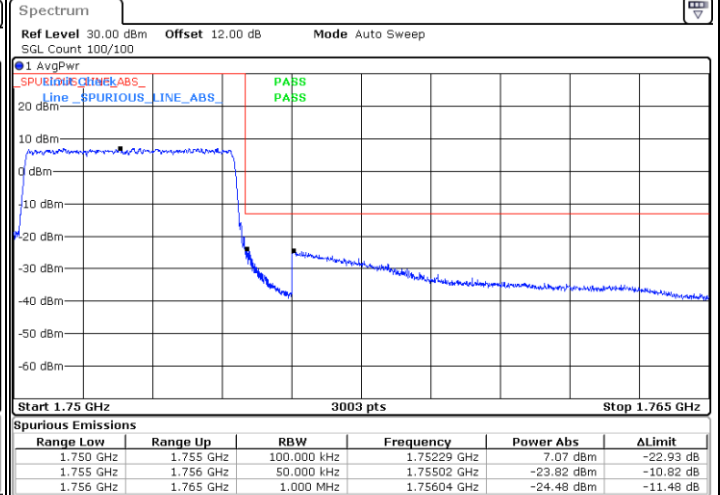
LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 14.MAR.2023 23:19:56

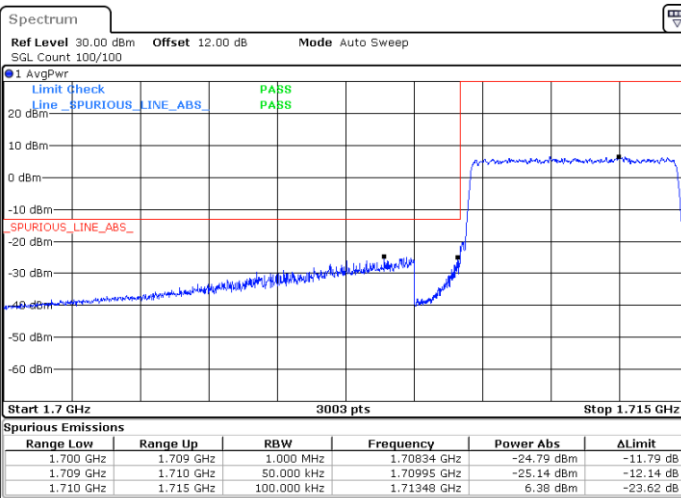
Highest Band Edge / Full RB



Date: 14.MAR.2023 23:24:40

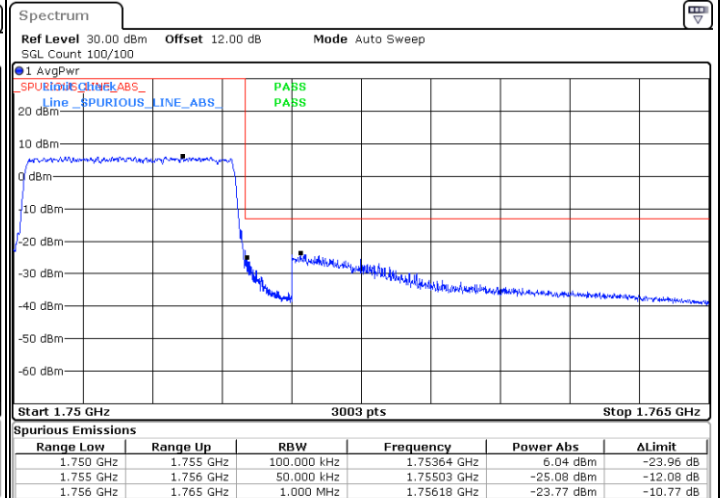
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 14.MAR.2023 23:21:17

Highest Band Edge / Full RB

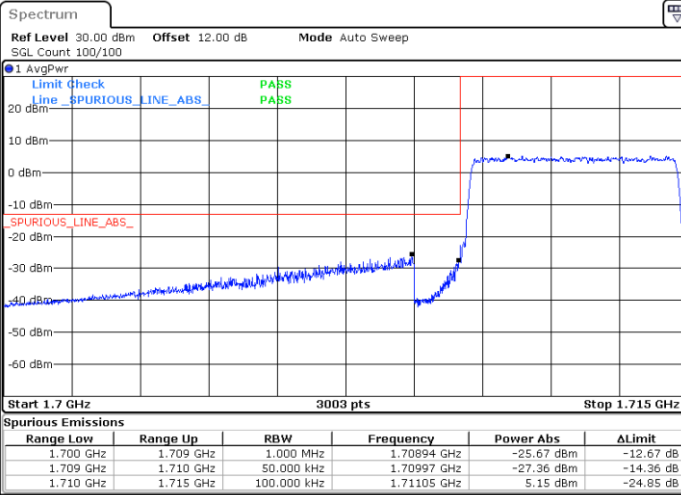


Date: 14.MAR.2023 23:25:59



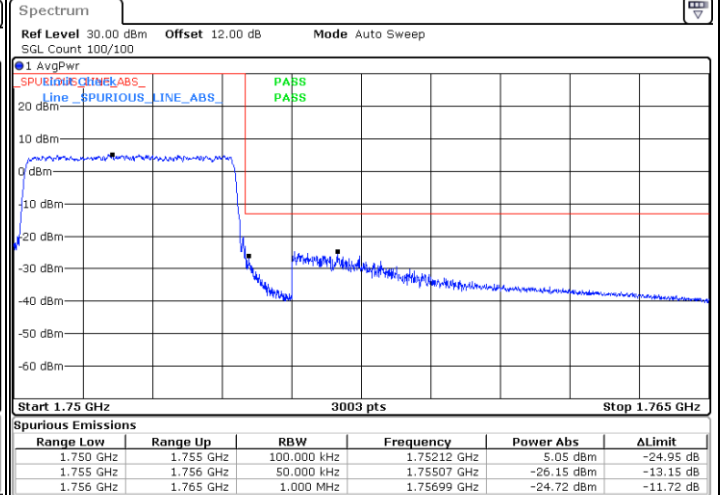
LTE Band 4 / 5MHz / 64QAM

Lowest Band Edge / Full RB



Date: 14.MAR.2023 23:13:28

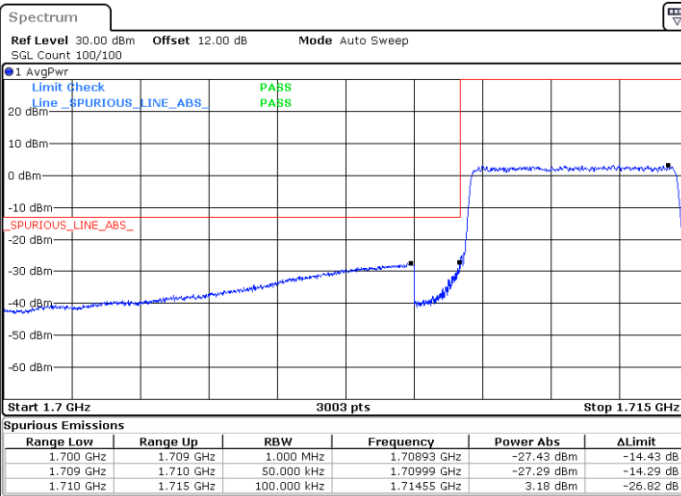
Highest Band Edge / Full RB



Date: 14.MAR.2023 23:18:34

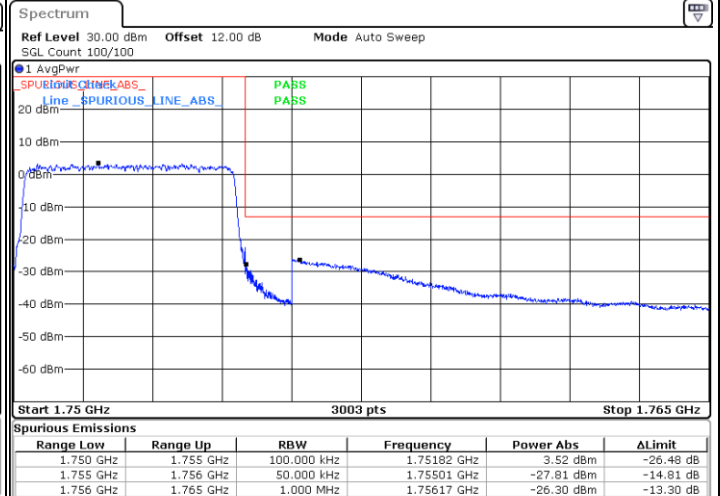
LTE Band 4 / 5MHz / 256QAM

Lowest Band Edge / Full RB



Date: 15.MAR.2023 00:29:26

Highest Band Edge / Full RB



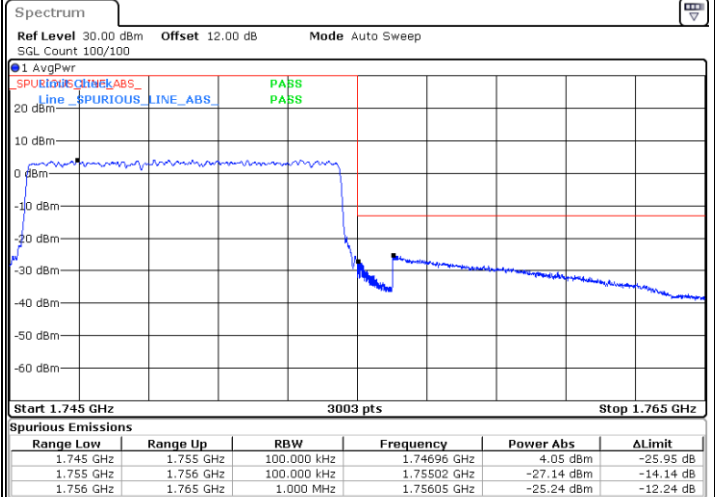
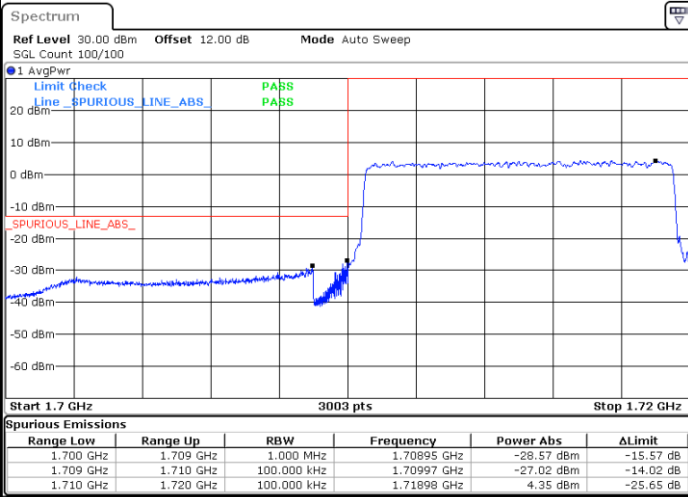
Date: 15.MAR.2023 00:31:27



LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



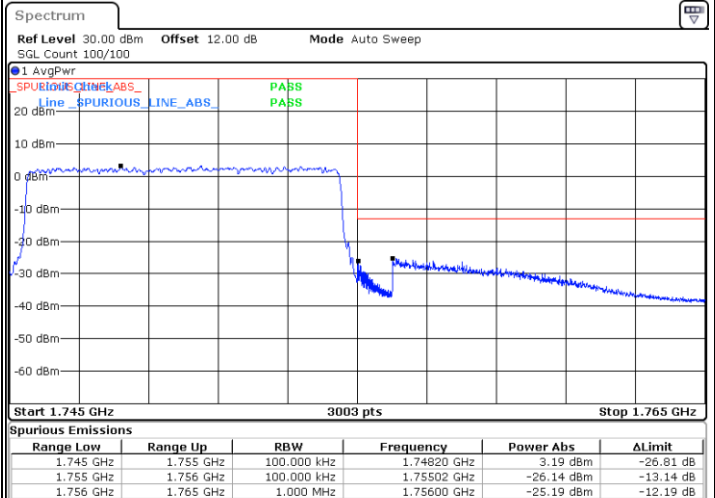
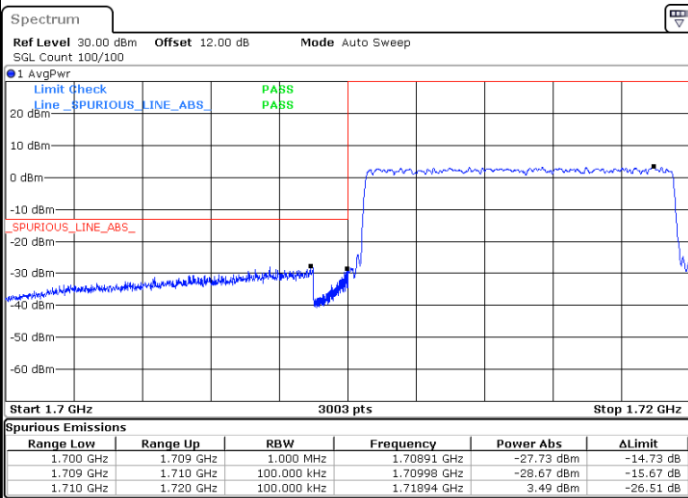
Date: 14.MAR.2023 23:27:22

Date: 14.MAR.2023 23:31:56

LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAR.2023 23:28:41

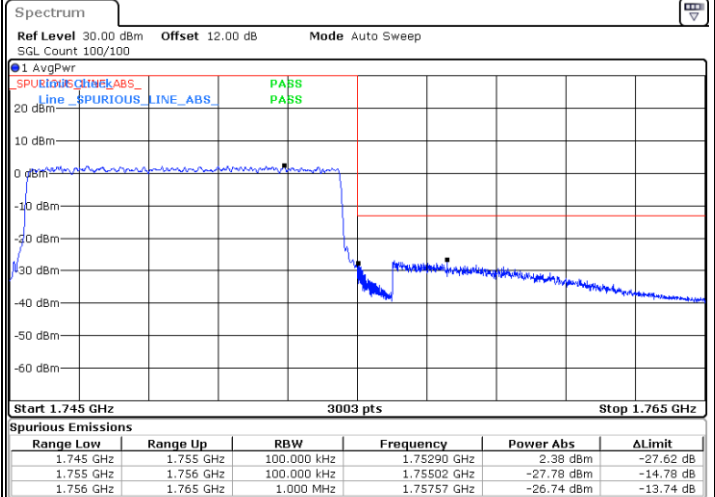
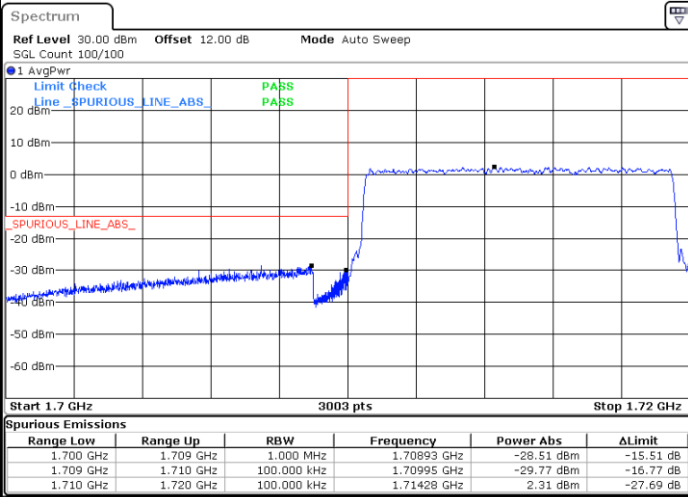
Date: 14.MAR.2023 23:33:14



LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



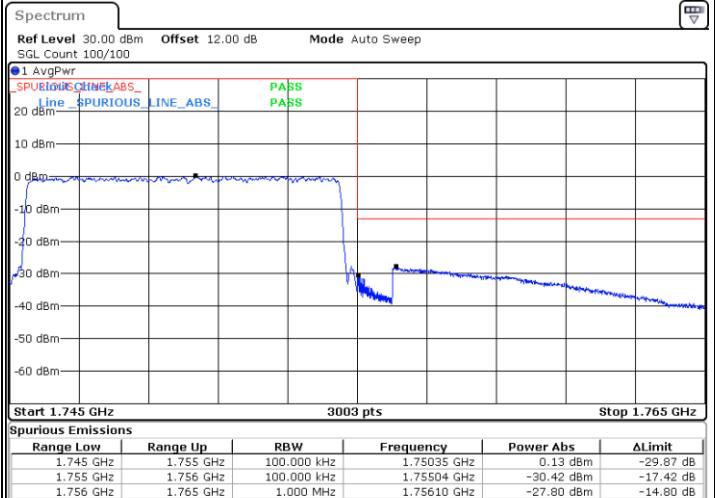
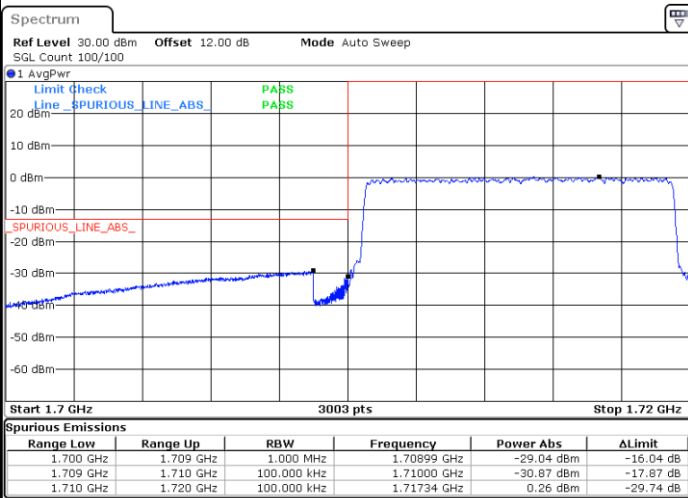
Date: 14.MAR.2023 23:34:33

Date: 14.MAR.2023 23:39:28

LTE Band 4 / 10MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAR.2023 00:32:50

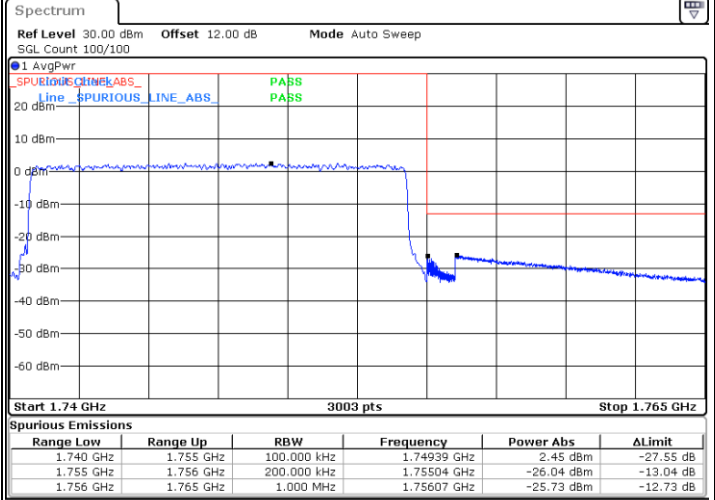
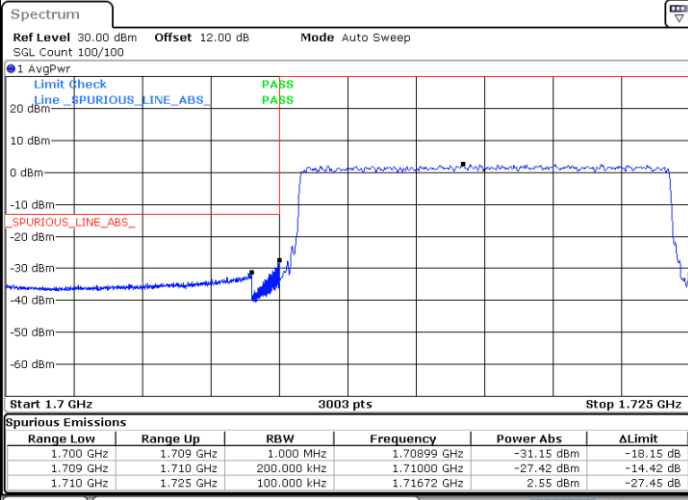
Date: 15.MAR.2023 00:34:52



LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



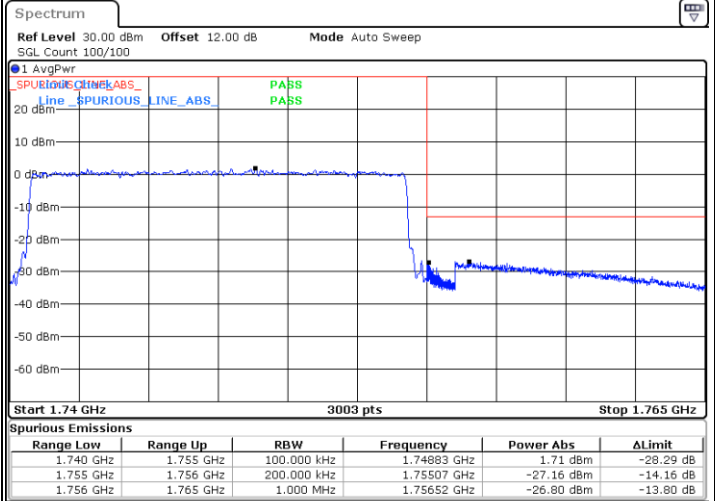
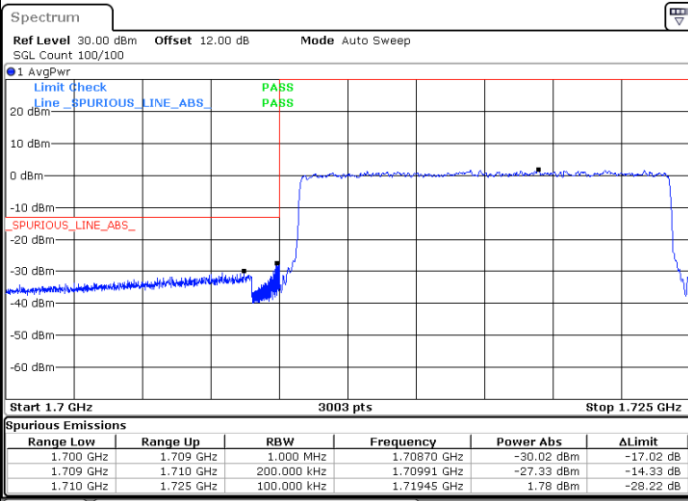
Date: 14.MAR.2023 23:42:59

Date: 14.MAR.2023 23:50:36

LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAR.2023 23:44:18

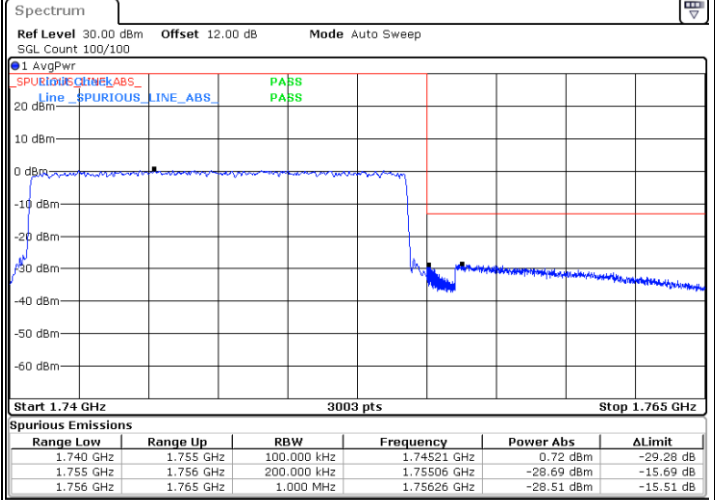
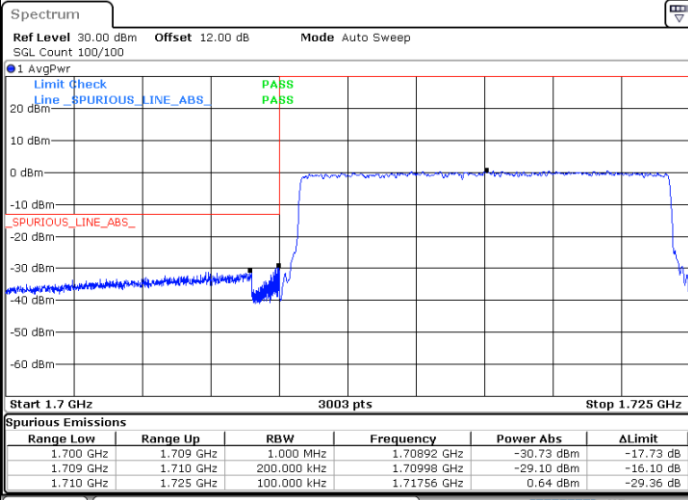
Date: 14.MAR.2023 23:51:54



LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



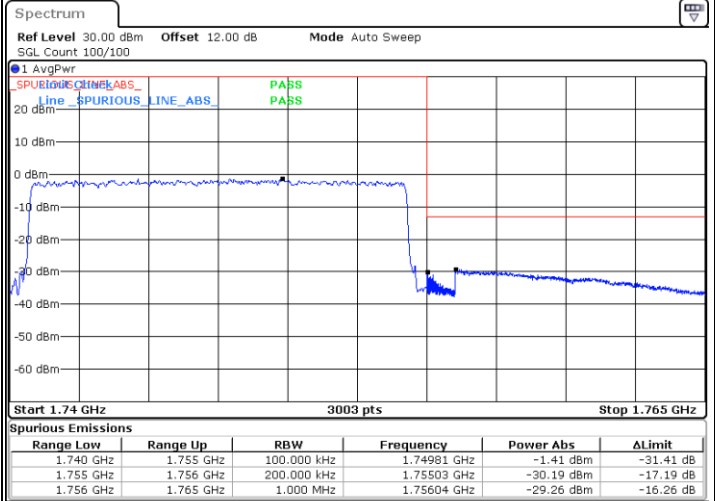
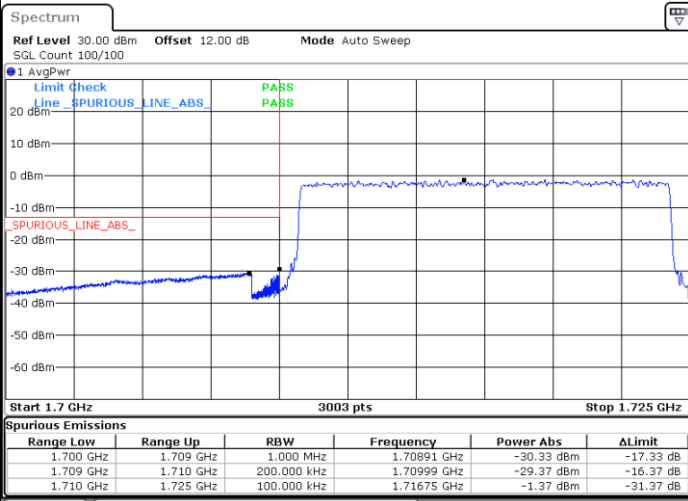
Date: 14.MAR.2023 23:53:12

Date: 14.MAR.2023 23:55:14

LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



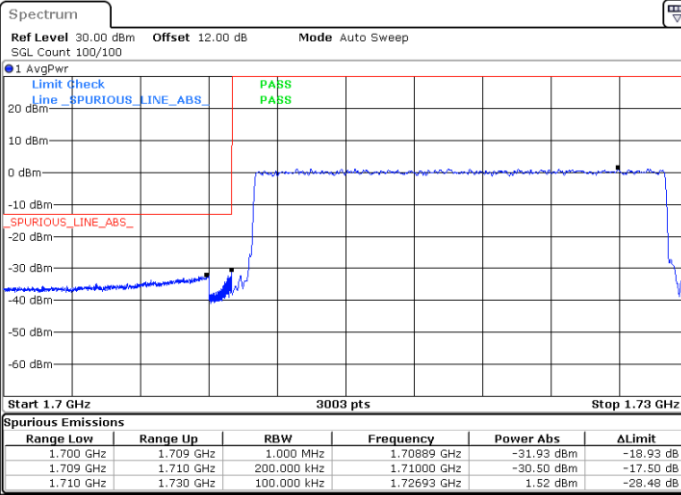
Date: 15.MAR.2023 00:36:15

Date: 15.MAR.2023 00:38:17



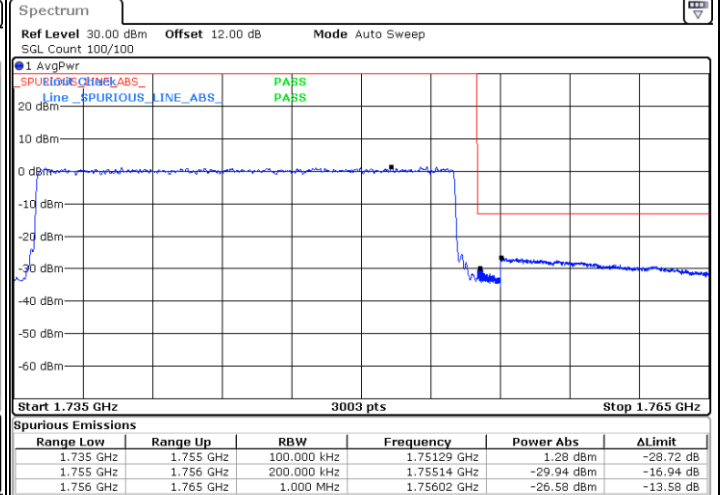
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 15.MAR.2023 00:04:42

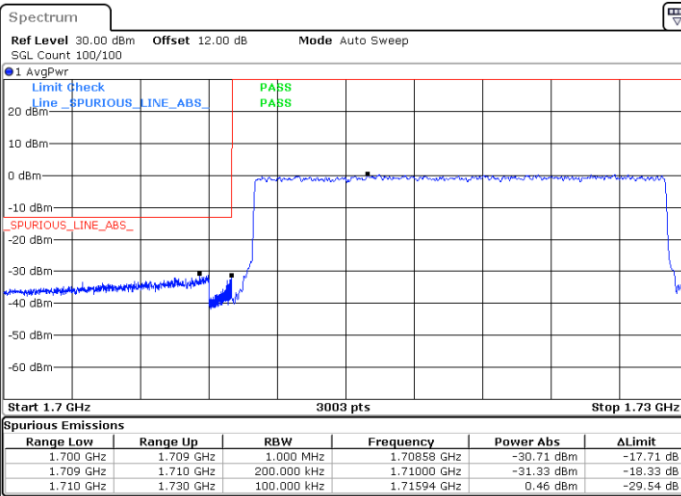
Highest Band Edge / Full RB



Date: 15.MAR.2023 00:12:23

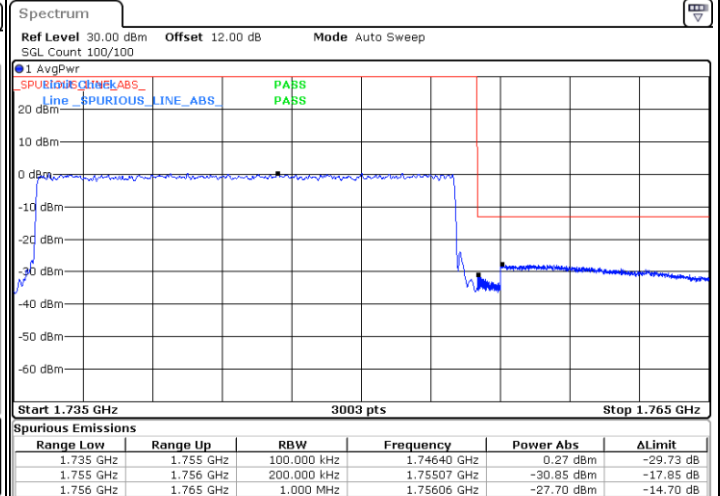
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 15.MAR.2023 00:06:02

Highest Band Edge / Full RB



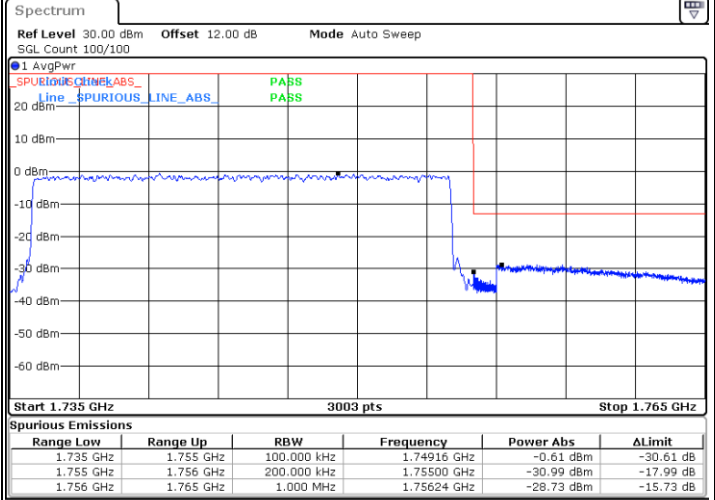
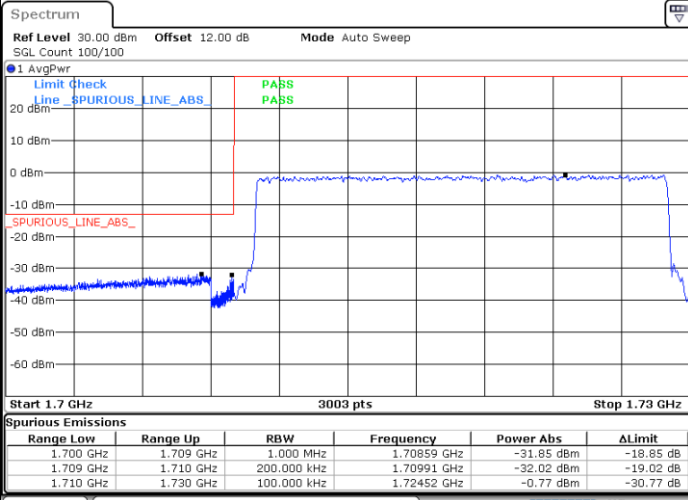
Date: 15.MAR.2023 00:13:41



LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



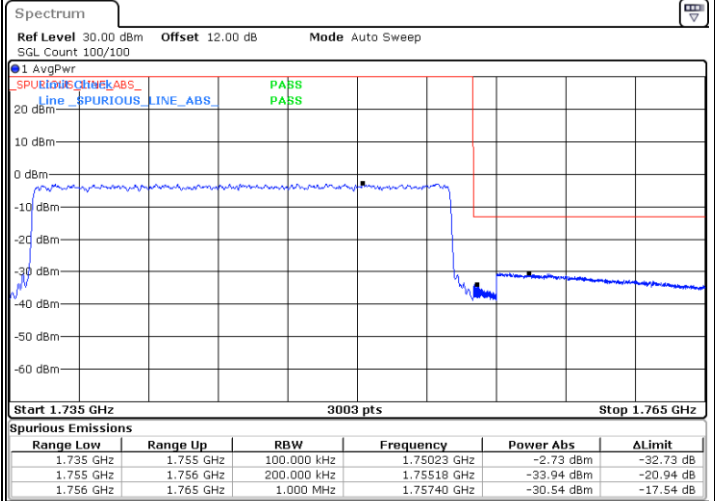
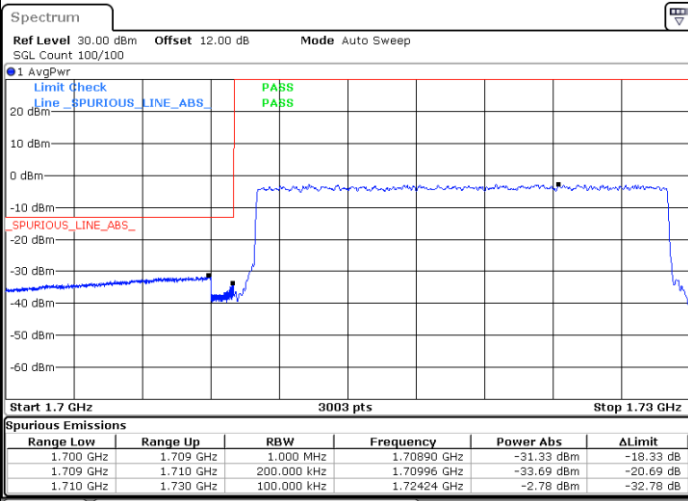
Date: 15.MAR.2023 00:15:00

Date: 15.MAR.2023 00:17:02

LTE Band 4 / 20MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.MAR.2023 00:39:40

Date: 15.MAR.2023 00:41:43

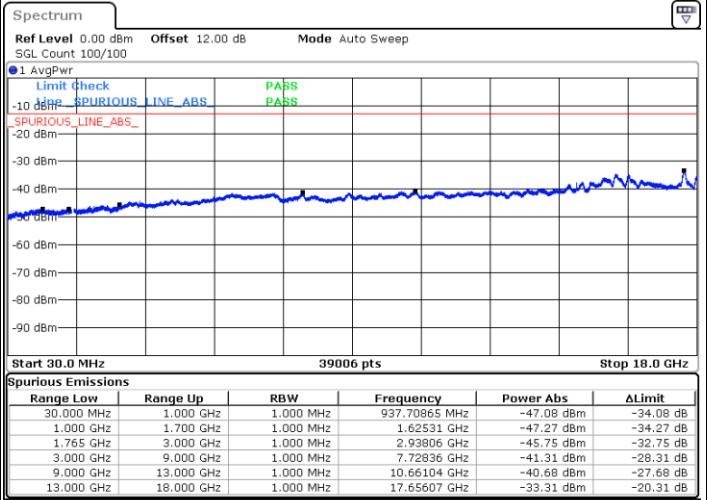
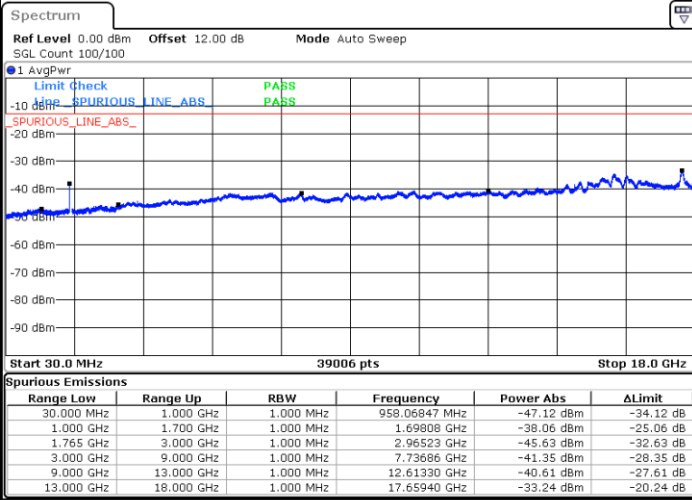


Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

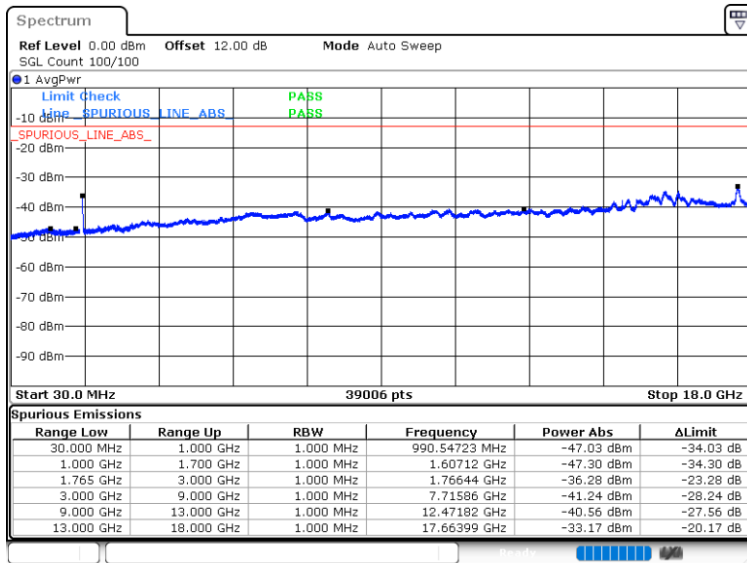
Middle Channel / QPSK



Date: 14.MAR.2023 22:21:57

Date: 14.MAR.2023 22:24:56

Highest Channel / QPSK

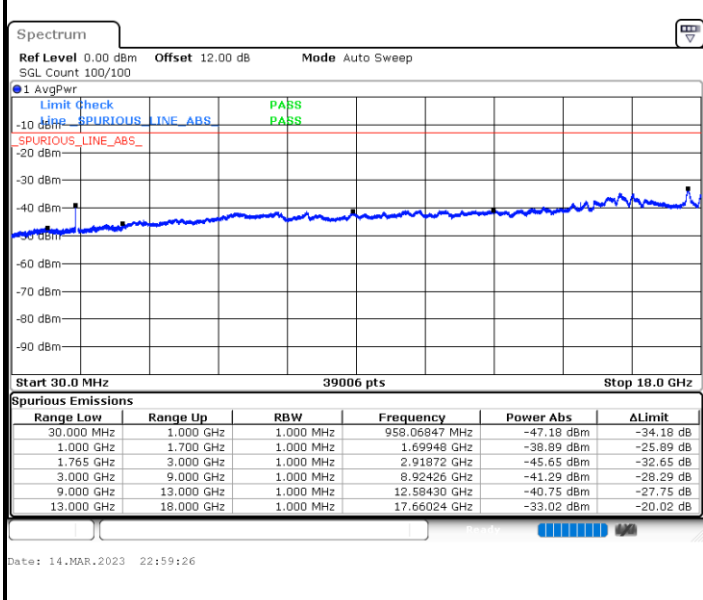


Date: 14.MAR.2023 22:31:09

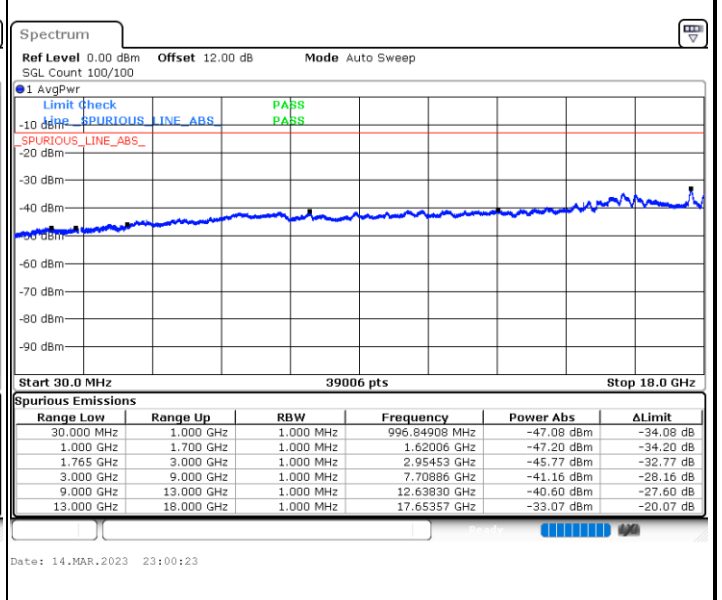


LTE Band 4 / 3MHz

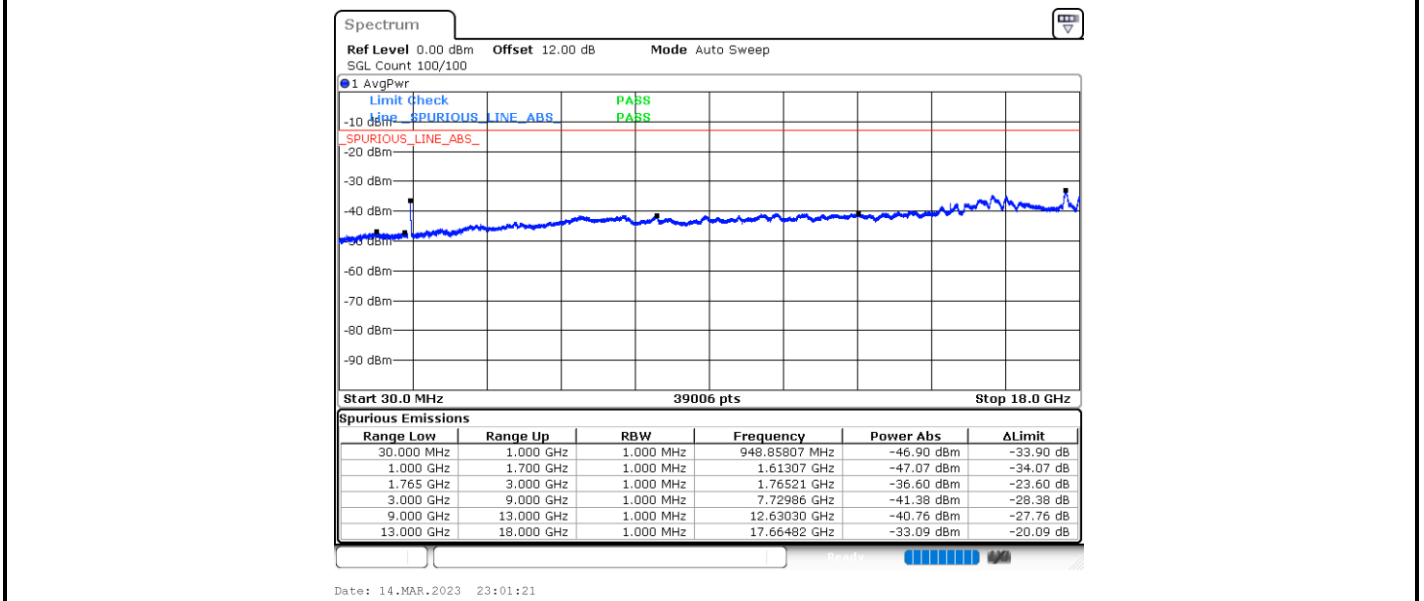
Lowest Channel / QPSK



Middle Channel / QPSK



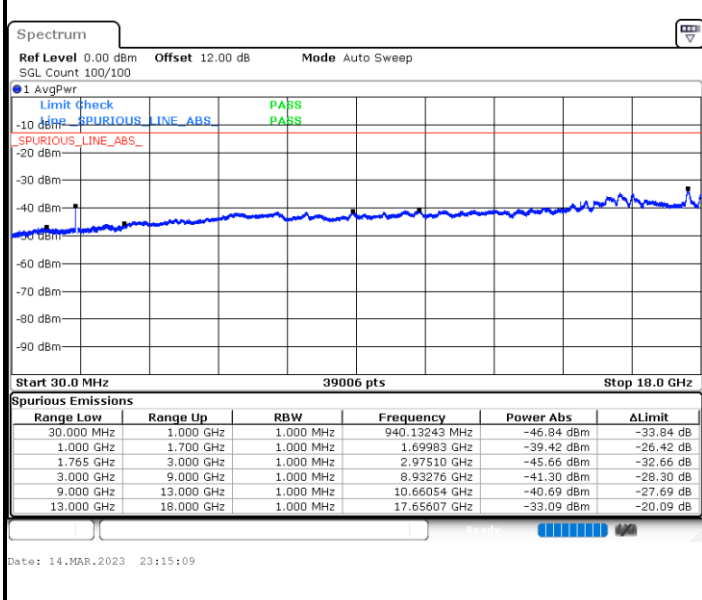
Highest Channel / QPSK



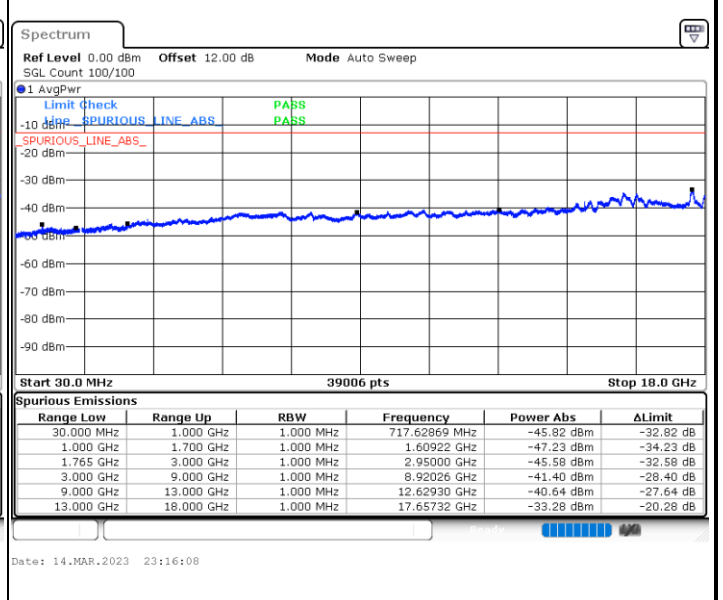


LTE Band 4 / 5MHz

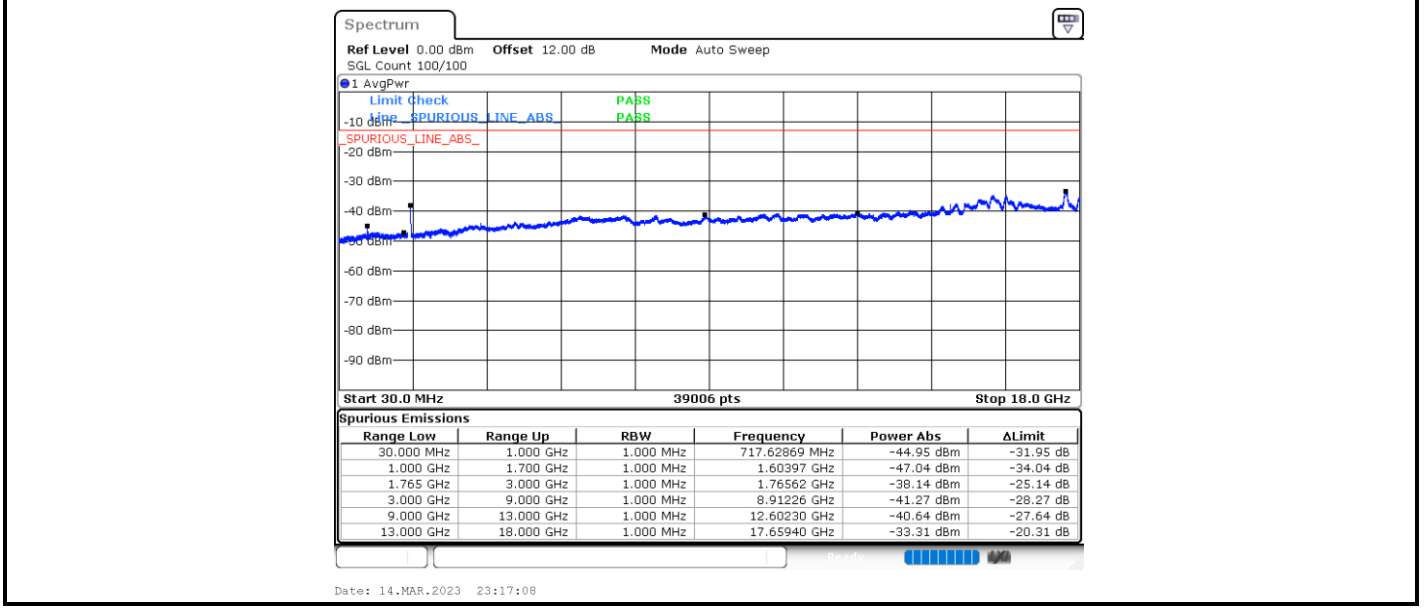
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

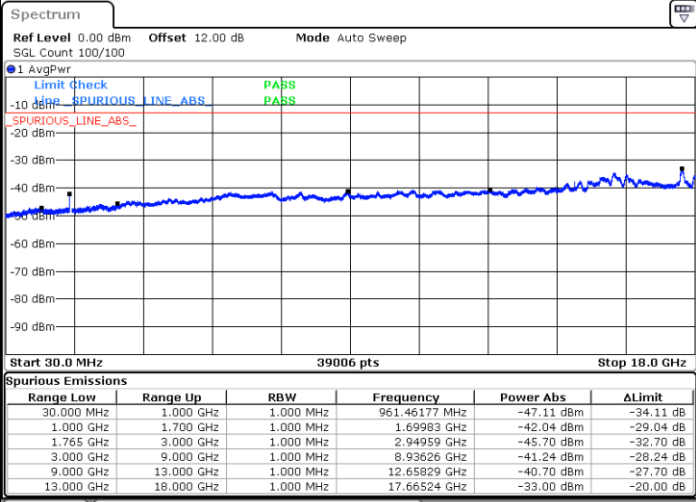




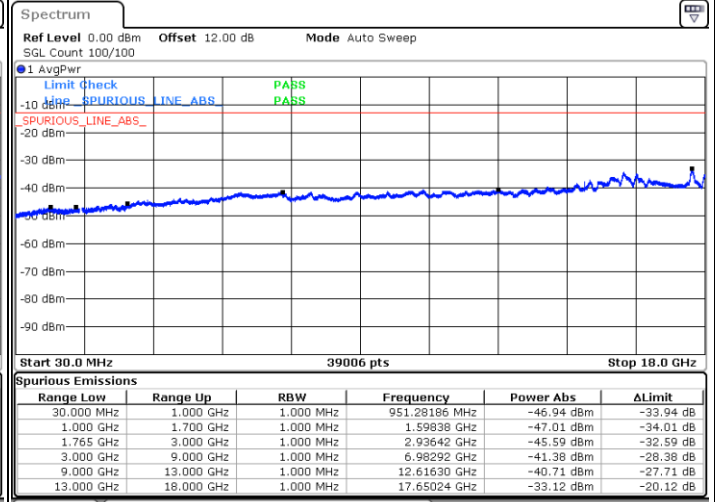
LTE Band 4 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

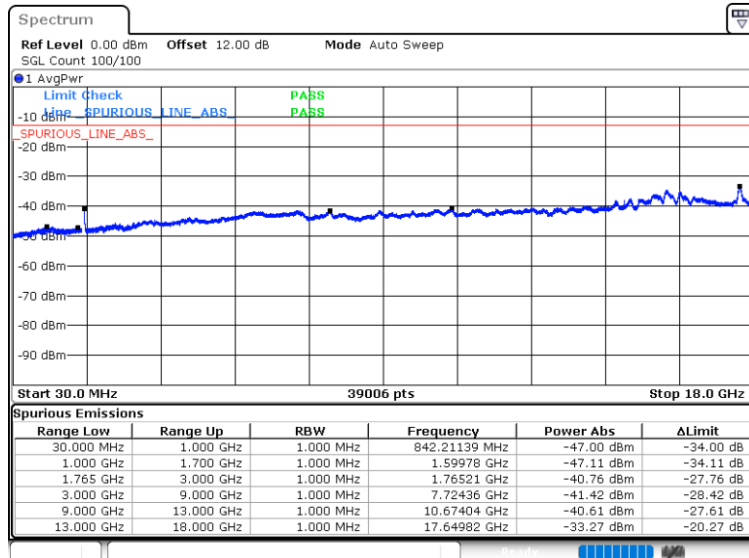


Date: 14.MAR.2023 23:36:14



Date: 14.MAR.2023 23:37:12

Highest Channel / QPSK



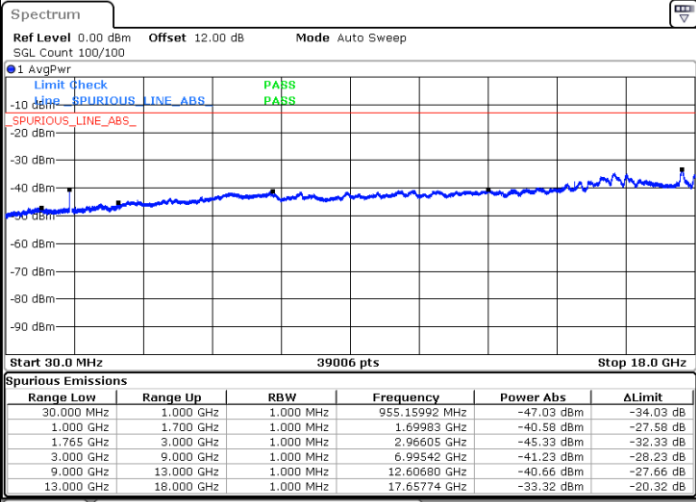
Date: 14.MAR.2023 23:38:10



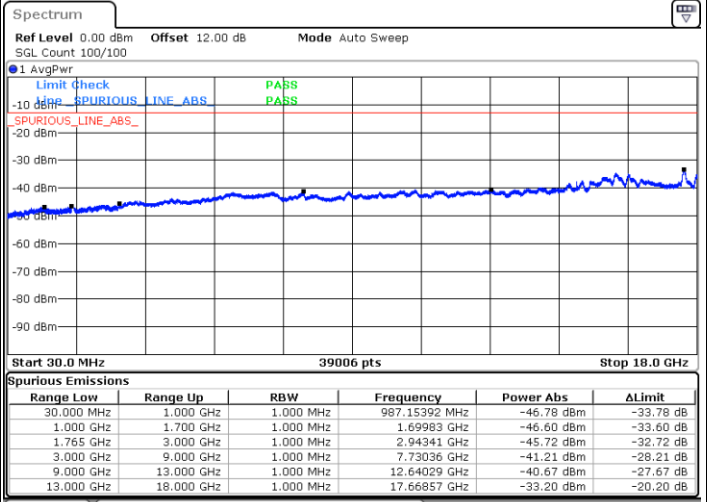
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

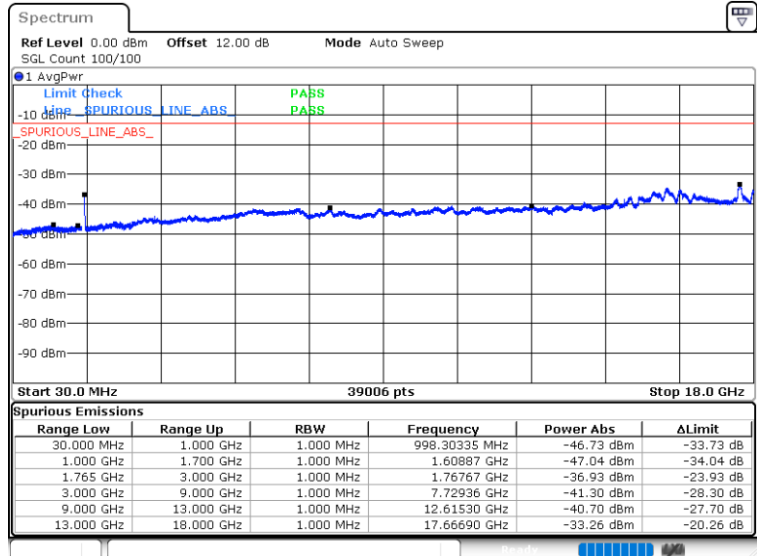


Date: 14.MAR.2023 23:47:21



Date: 14.MAR.2023 23:48:19

Highest Channel / QPSK

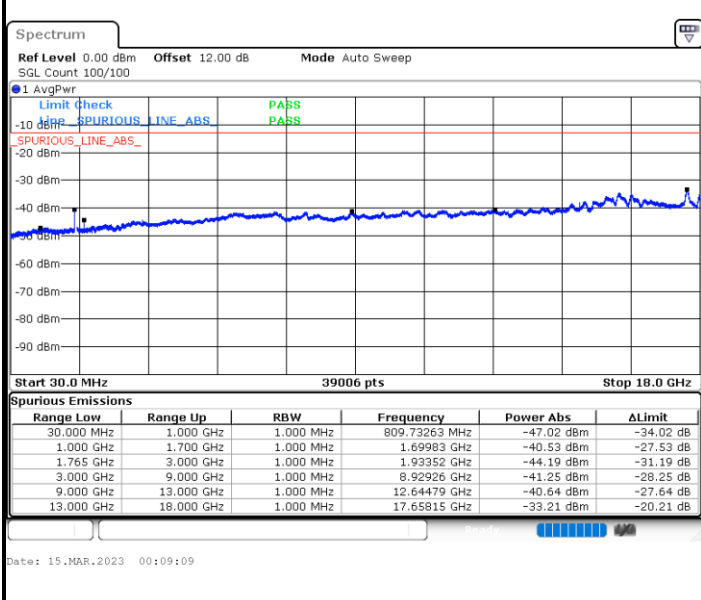


Date: 14.MAR.2023 23:49:17

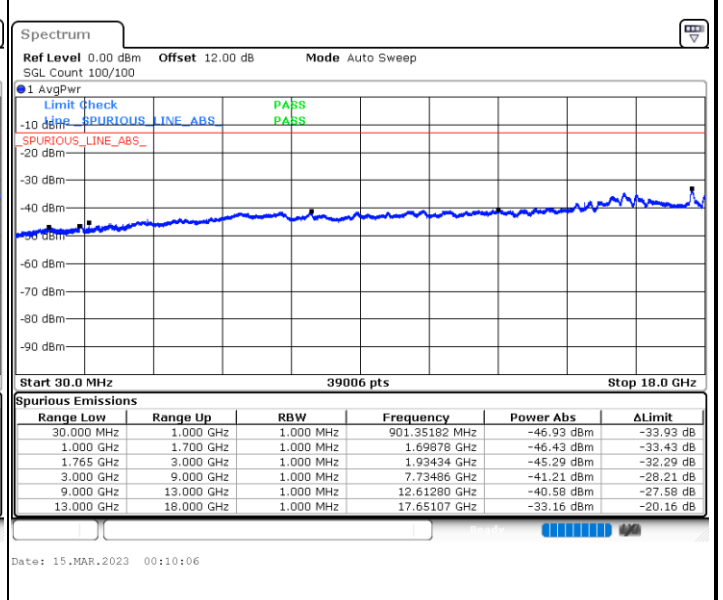


LTE Band 4 / 20MHz

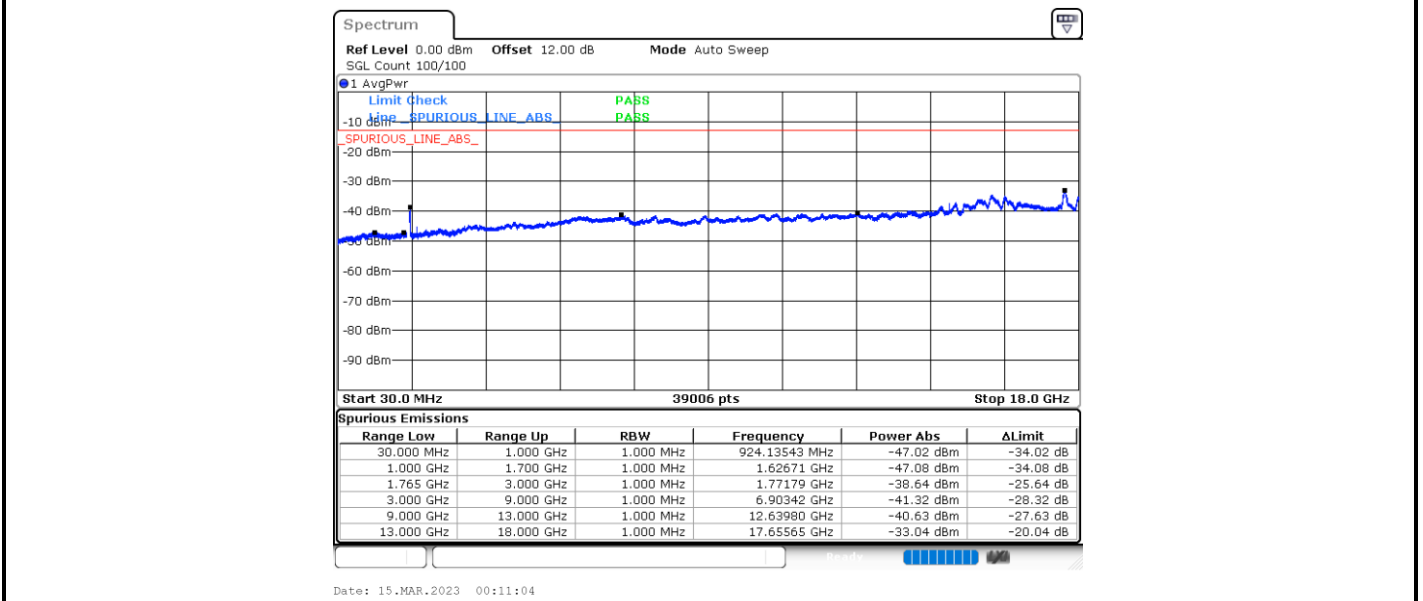
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0030	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0099	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0092	
-10	Normal Voltage	0.0068	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0088	

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 5

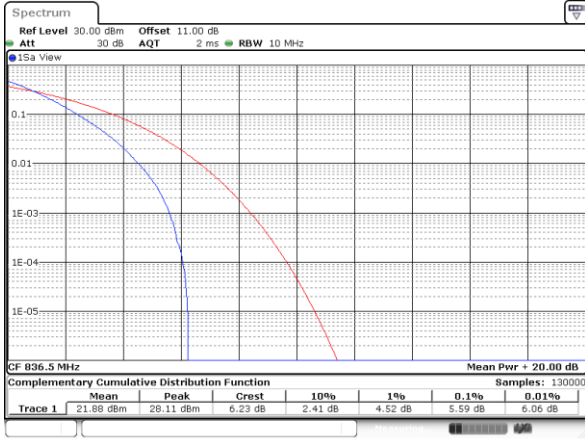
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.59	5.59	5.94	6.67	PASS



LTE Band 5 / 10MHz / QPSK

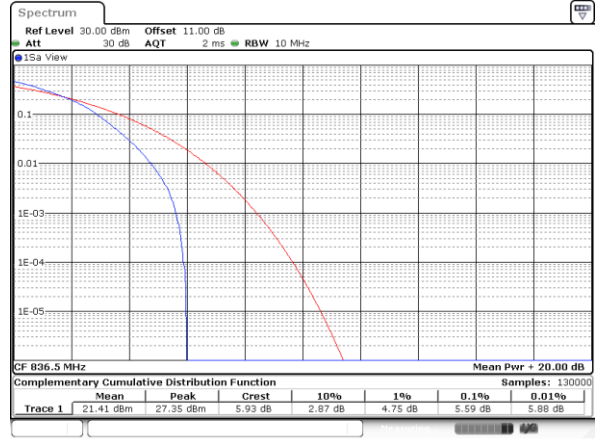
Middle Channel / Full RB



Date: 15.MAR.2023 17:59:33

LTE Band 5 / 10MHz / 16QAM

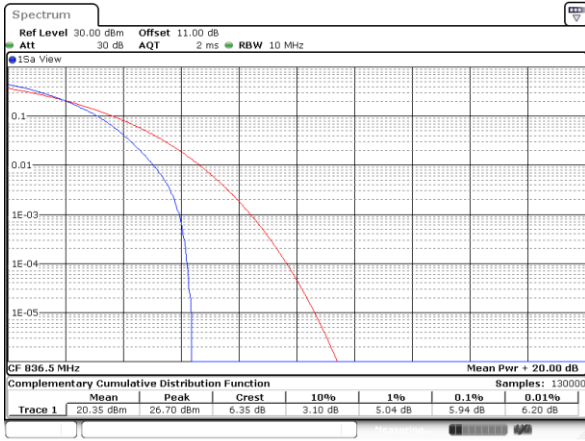
Middle Channel / Full RB



Date: 15.MAR.2023 18:00:06

LTE Band 5 / 10MHz / 64QAM

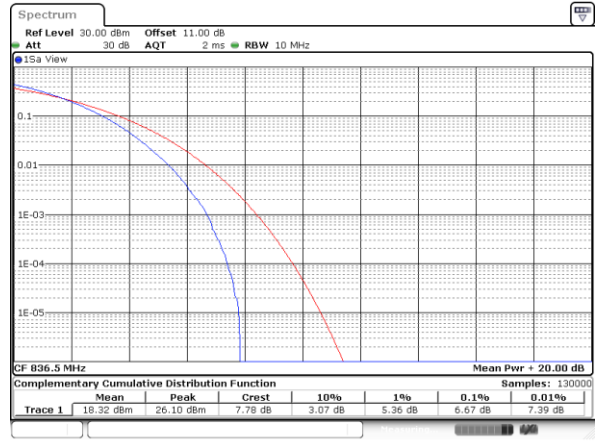
Middle Channel / Full RB



Date: 15.MAR.2023 18:01:05

LTE Band 5 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 15.MAR.2023 18:02:03



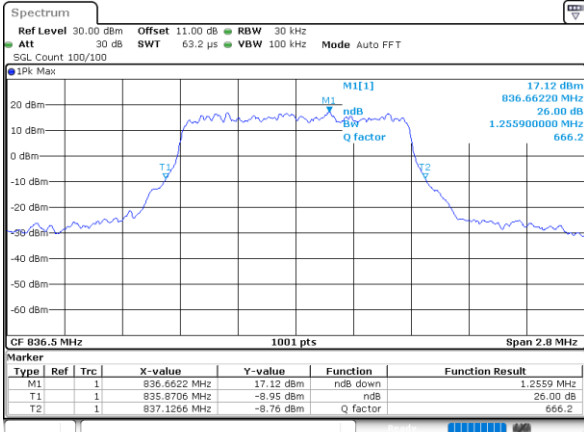
26dB Bandwidth

Mode	LTE Band 5 : 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	1.26	1.33	3.06	3.06	5.28	5.09	10.69	9.69	-	-	-	-
Mode	LTE Band 5 : 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	1.26	1.27	3.04	3.14	5.00	5.23	9.93	10.33	-	-	-	-



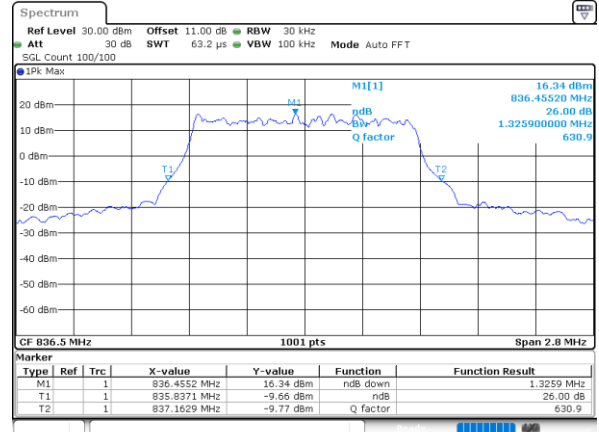
LTE Band 5

Middle Channel / 1.4MHz / QPSK



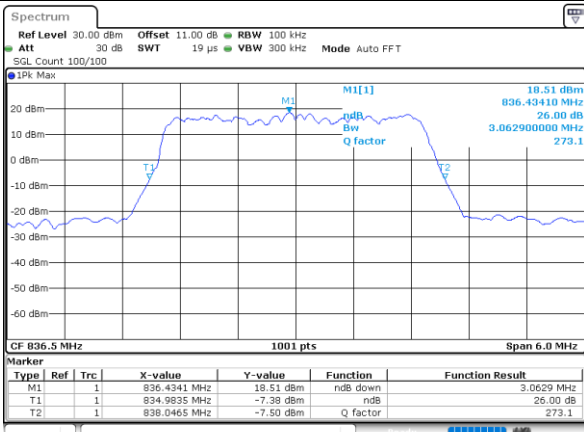
Date: 15.MAR.2023 17:15:57

Middle Channel / 1.4MHz / 16QAM



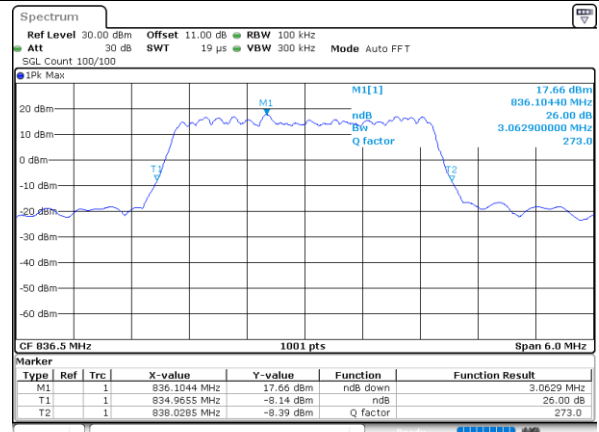
Date: 15.MAR.2023 17:16:40

Middle Channel / 3MHz / QPSK



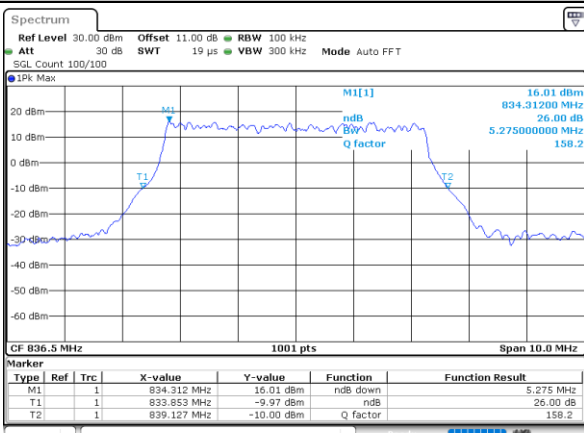
Date: 15.MAR.2023 17:33:46

Middle Channel / 3MHz / 16QAM



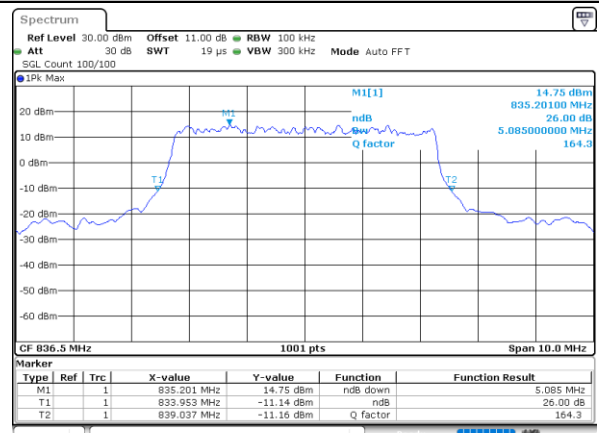
Date: 15.MAR.2023 17:34:29

Middle Channel / 5MHz / QPSK



Date: 15.MAR.2023 17:46:33

Middle Channel / 5MHz / 16QAM

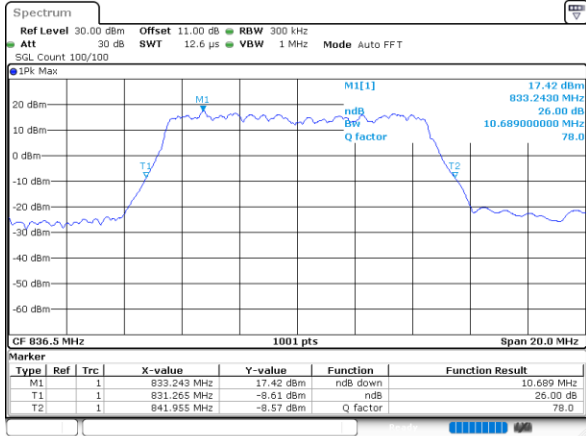


Date: 15.MAR.2023 17:47:16



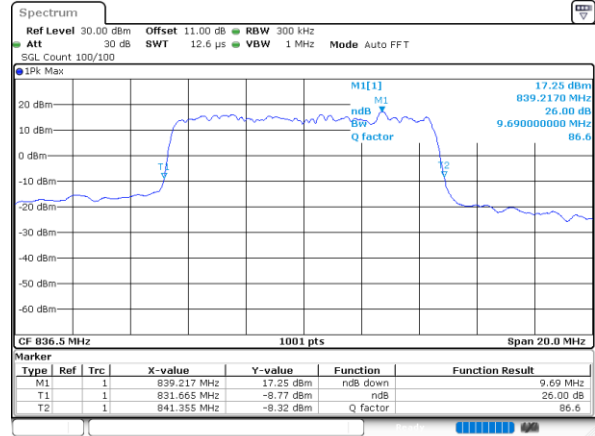
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 15.MAR.2023 17:59:18

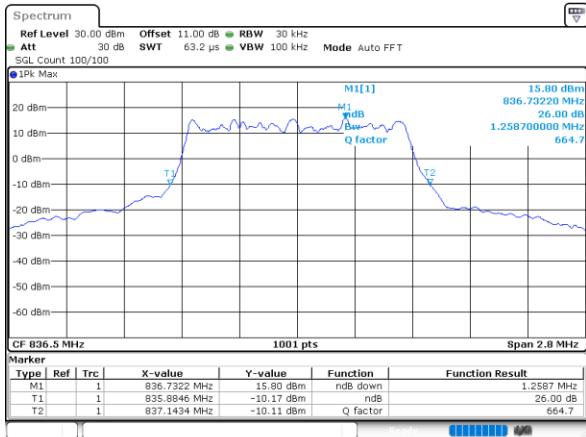
Middle Channel / 10MHz / 16QAM



Date: 15.MAR.2023 18:00:35

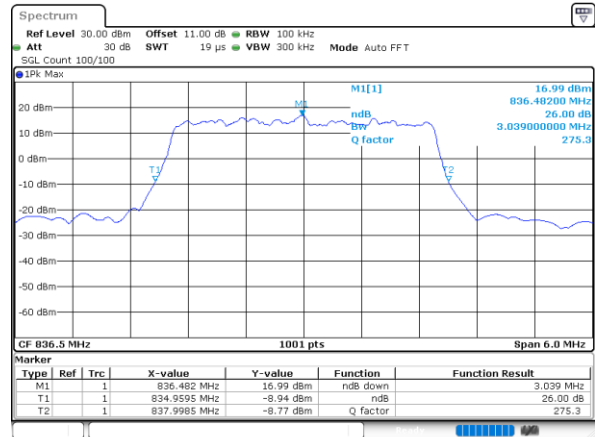
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



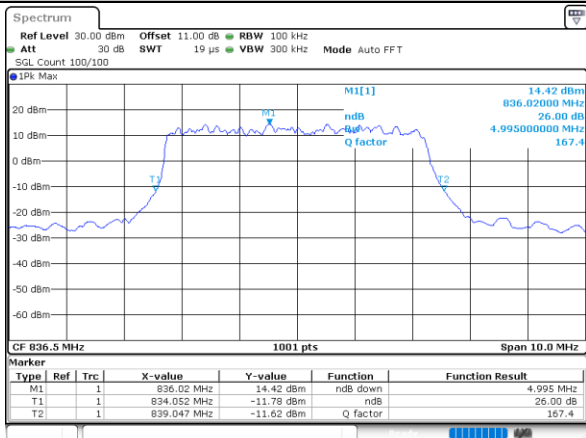
Date: 15.MAR.2023 17:17:23

Middle Channel / 3MHz / 64QAM



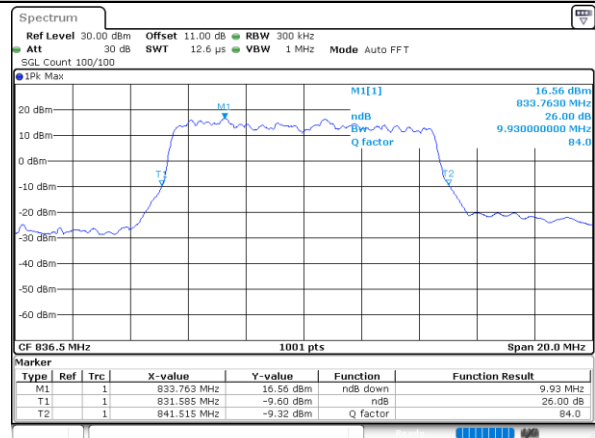
Date: 15.MAR.2023 17:35:12

Middle Channel / 5MHz / 64QAM



Date: 15.MAR.2023 17:47:59

Middle Channel / 10MHz / 64QAM

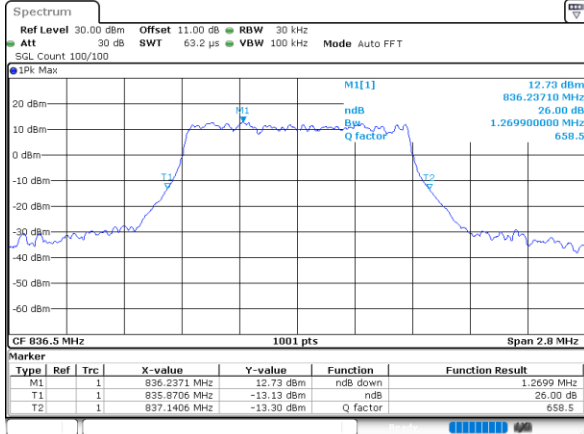


Date: 15.MAR.2023 18:01:33



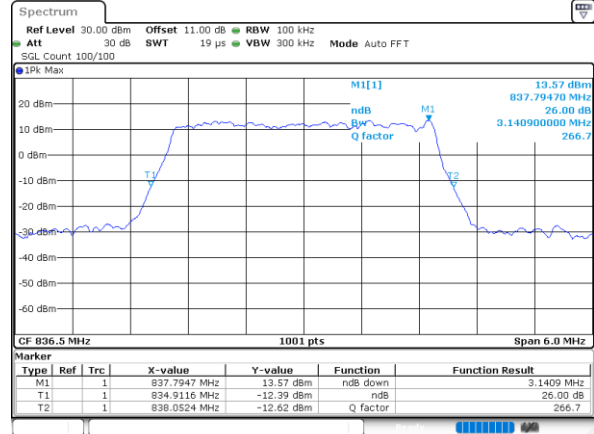
LTE Band 5

Middle Channel / 1.4MHz / 256QAM



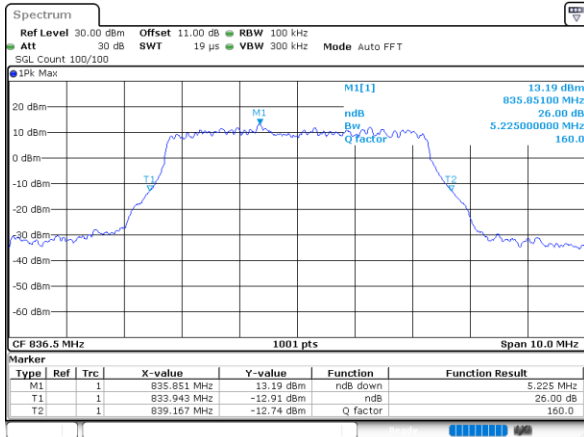
Date: 15.MAR.2023 17:18:06

Middle Channel / 3MHz / 256QAM



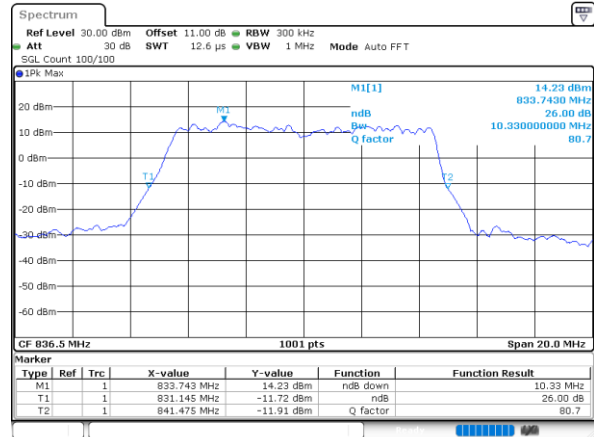
Date: 15.MAR.2023 17:35:55

Middle Channel / 5MHz / 256QAM



Date: 15.MAR.2023 17:48:42

Middle Channel / 10MHz / 256QAM



Date: 15.MAR.2023 18:02:32



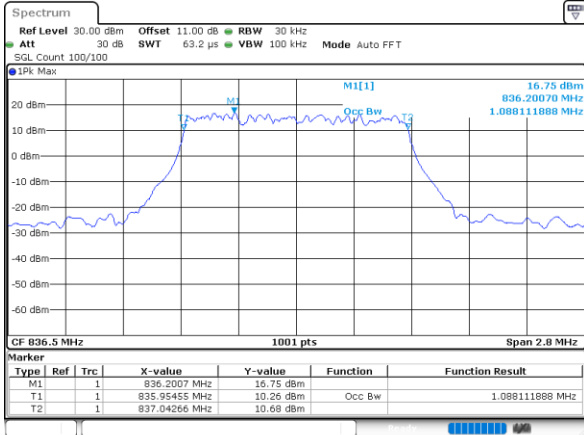
Occupied Bandwidth

Mode	LTE Band 5 : 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	1.09	1.11	2.73	2.73	4.49	4.51	9.03	9.07	-	-	-	-
Mode	LTE Band 5 : 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	1.09	1.09	2.74	2.72	4.51	4.51	9.05	8.99	-	-	-	-



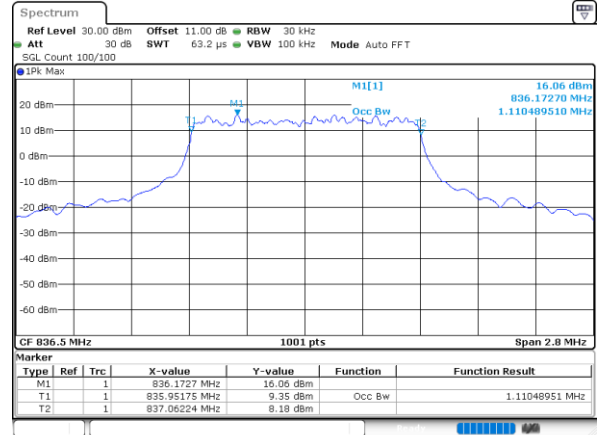
LTE Band 5

Middle Channel / 1.4MHz / QPSK



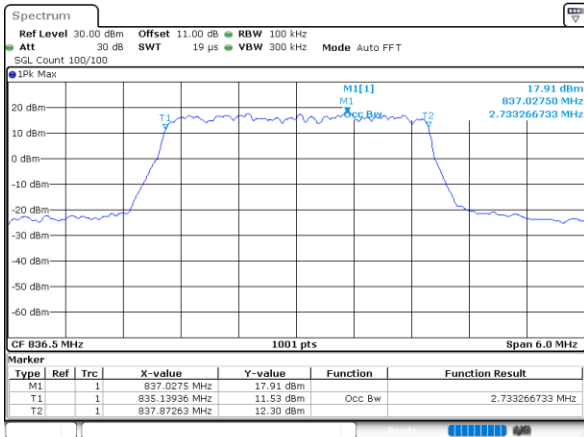
Date: 15.MAR.2023 17:15:43

Middle Channel / 1.4MHz / 16QAM



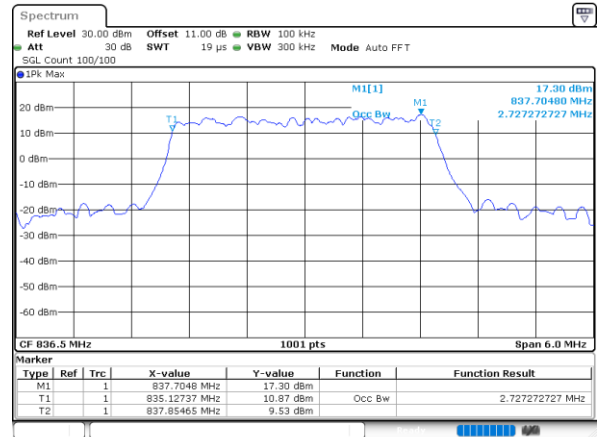
Date: 15.MAR.2023 17:16:26

Middle Channel / 3MHz / QPSK



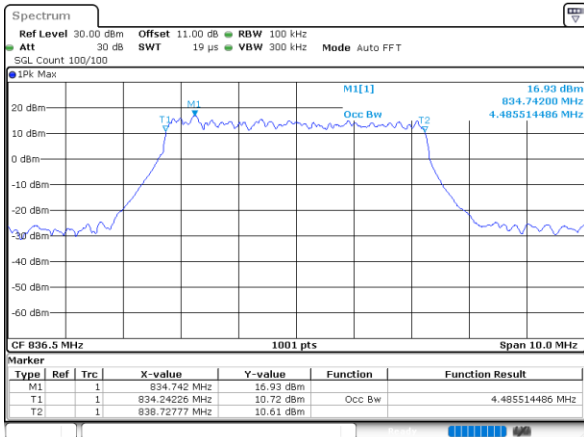
Date: 15.MAR.2023 17:33:32

Middle Channel / 3MHz / 16QAM



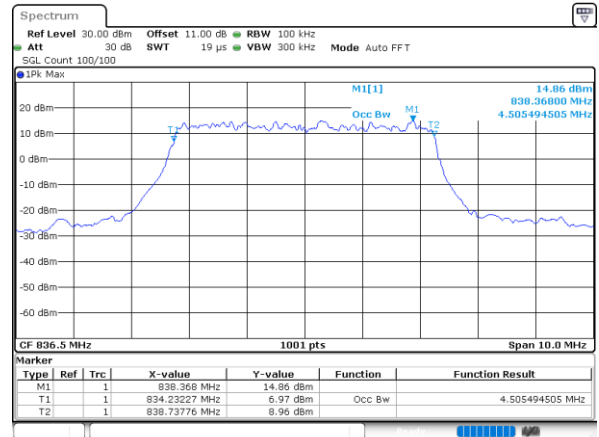
Date: 15.MAR.2023 17:34:15

Middle Channel / 5MHz / QPSK



Date: 15.MAR.2023 17:46:19

Middle Channel / 5MHz / 16QAM

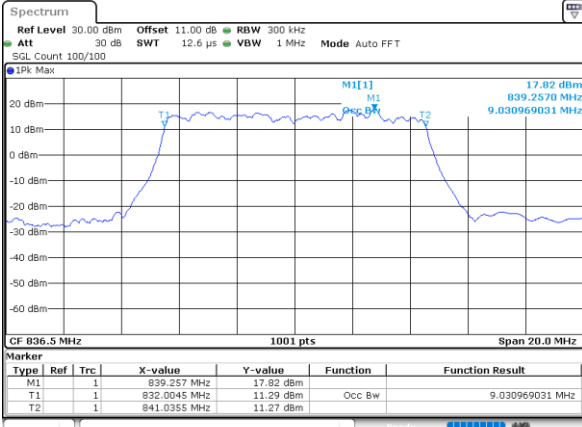


Date: 15.MAR.2023 17:47:02



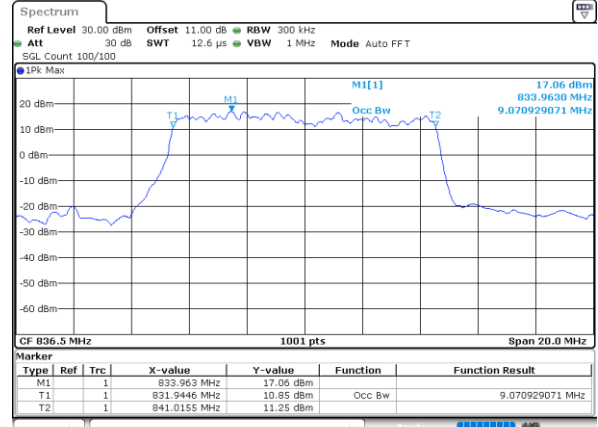
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 15_MAR_2023 17:59:04

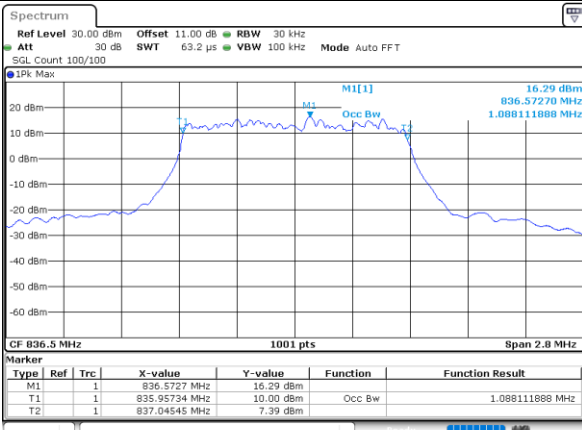
Middle Channel / 10MHz / 16QAM



Date: 15_MAR_2023 18:00:21

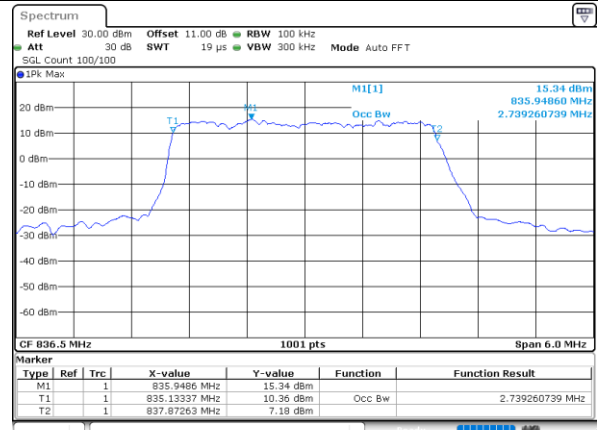
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



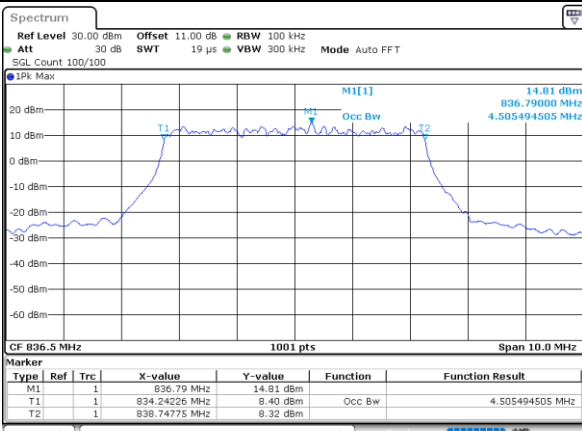
Date: 15_MAR_2023 17:17:09

Middle Channel / 3MHz / 64QAM



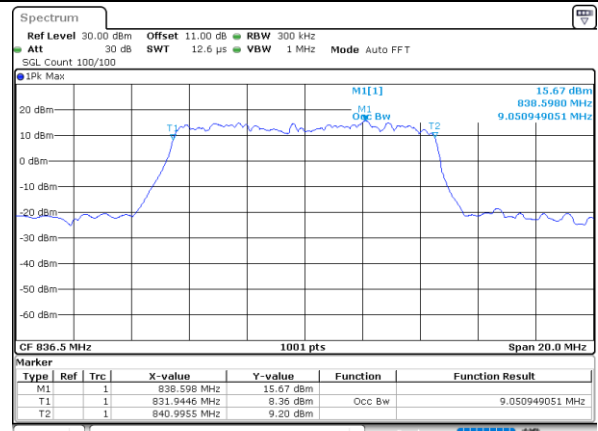
Date: 15_MAR_2023 17:34:58

Middle Channel / 5MHz / 64QAM



Date: 15_MAR_2023 17:47:45

Middle Channel / 10MHz / 64QAM

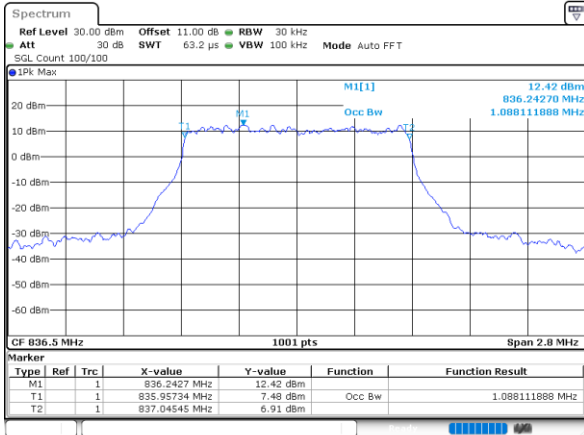


Date: 15_MAR_2023 18:01:19



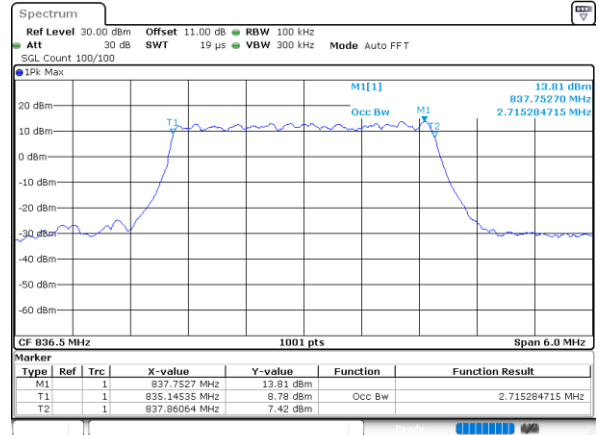
LTE Band 5

Middle Channel / 1.4MHz / 256QAM



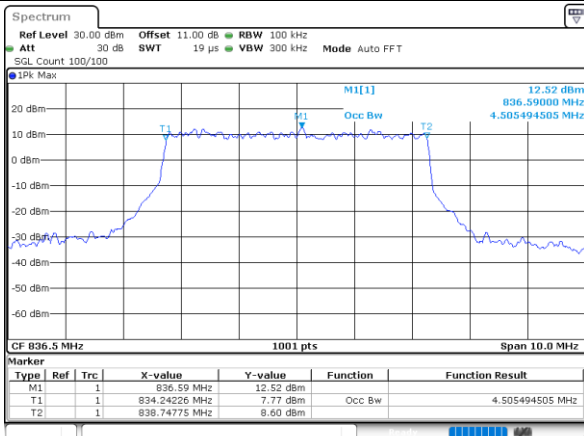
Date: 15.MAR.2023 17:17:52

Middle Channel / 3MHz / 256QAM



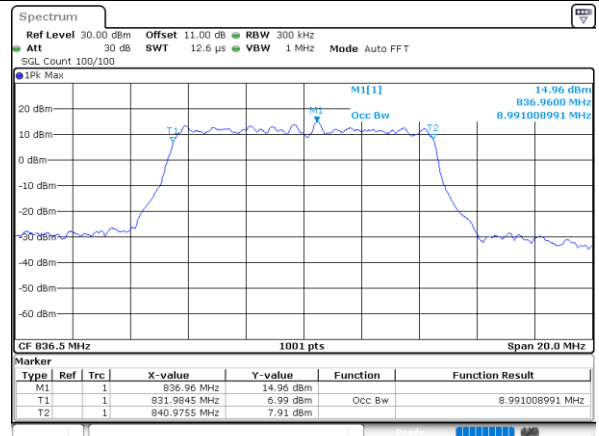
Date: 15.MAR.2023 17:35:41

Middle Channel / 5MHz / 256QAM



Date: 15.MAR.2023 17:48:28

Middle Channel / 10MHz / 256QAM



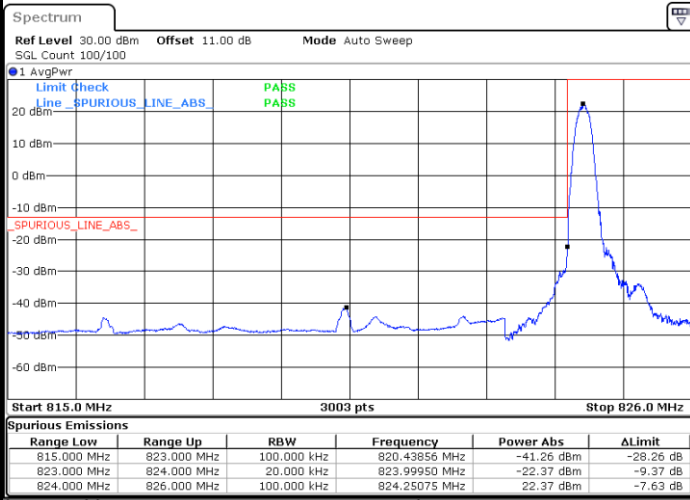
Date: 15.MAR.2023 18:02:18



Conducted Band Edge

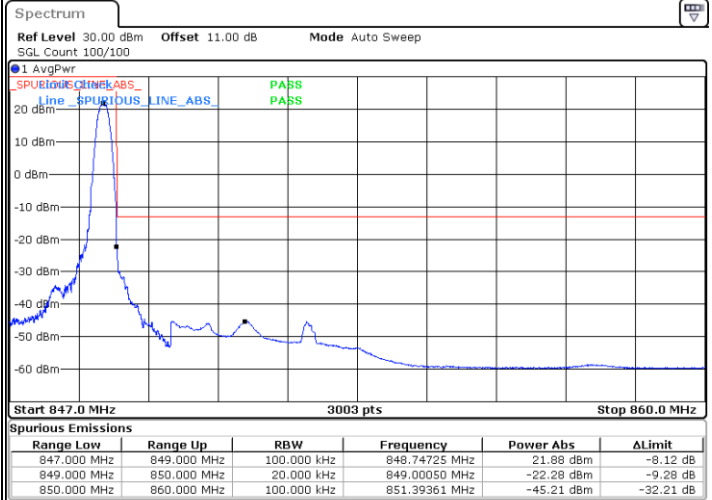
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



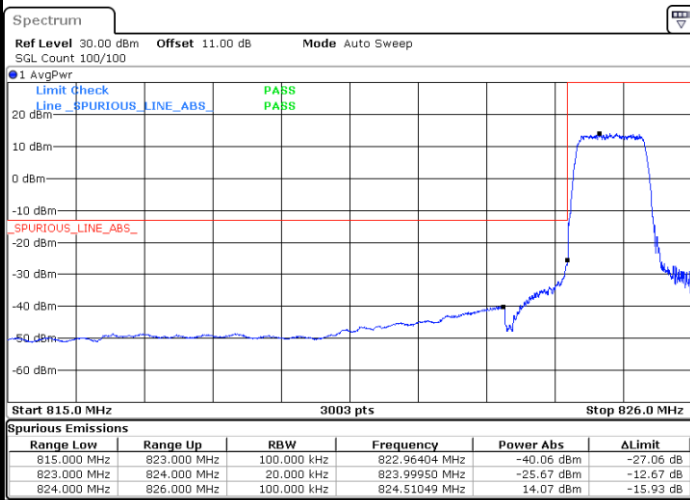
Date: 15.MAR.2023 17:06:04

Highest Band Edge / 1RB



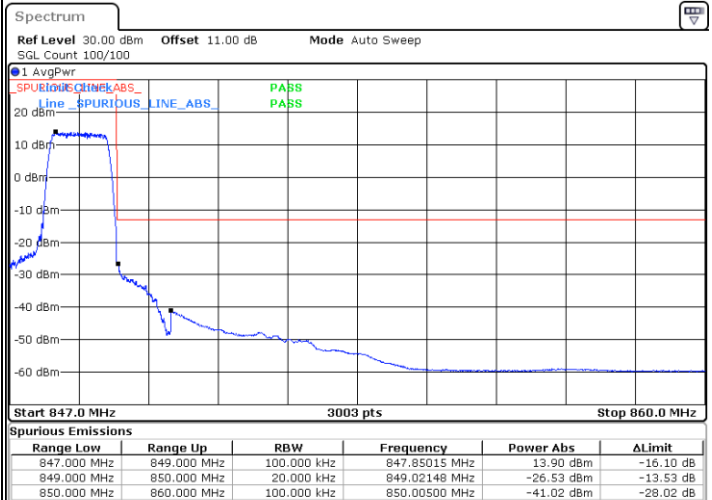
Date: 15.MAR.2023 17:23:00

Lowest Band Edge / Full RB



Date: 15.MAR.2023 17:11:08

Highest Band Edge / Full RB

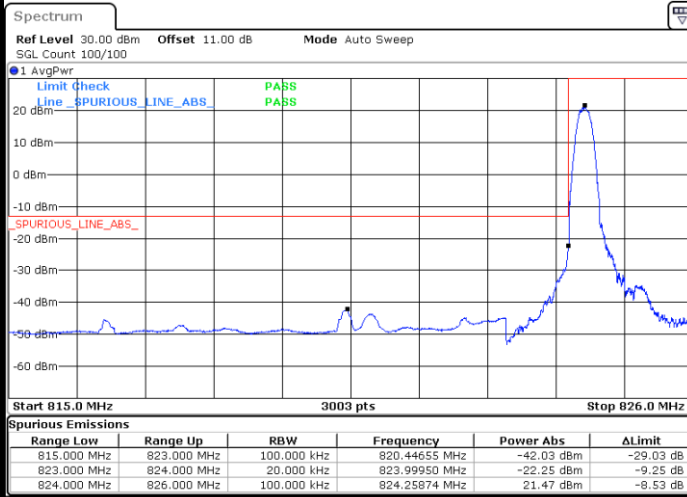


Date: 15.MAR.2023 17:19:04



LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



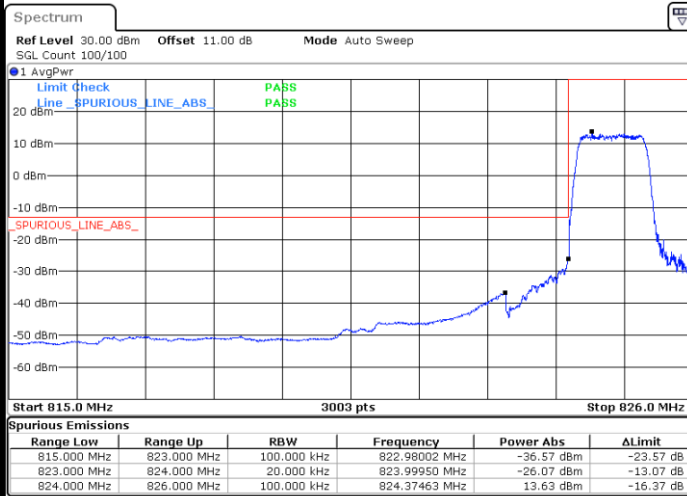
Date: 15.MAR.2023 17:07:03

Highest Band Edge / 1 RB



Date: 15.MAR.2023 17:23:59

Lowest Band Edge / Full RB



Date: 15.MAR.2023 17:12:07

Highest Band Edge / Full RB

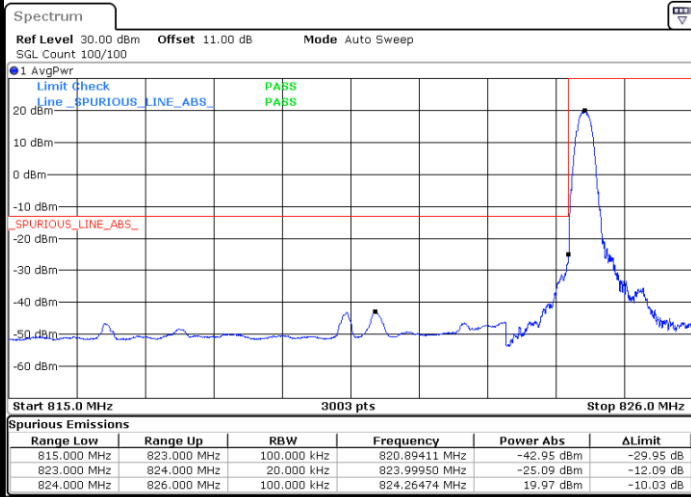


Date: 15.MAR.2023 17:20:03



LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



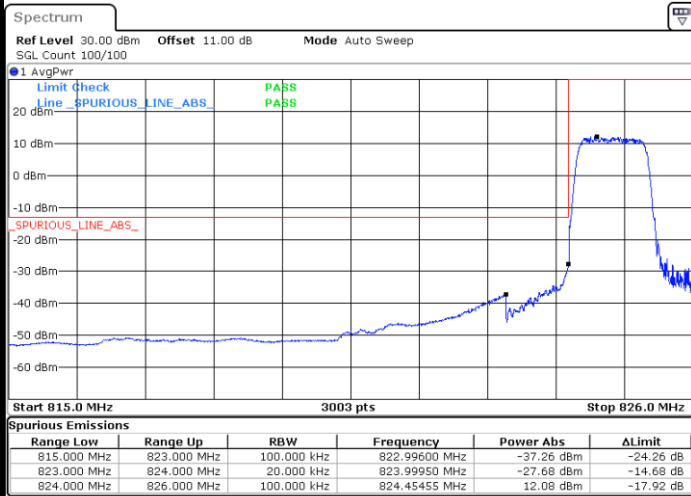
Date: 15.MAR.2023 17:08:02

Highest Band Edge / 1 RB



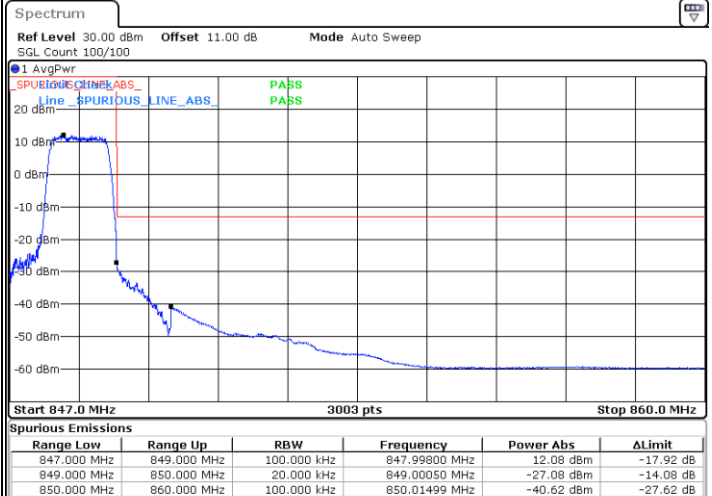
Date: 15.MAR.2023 17:24:58

Lowest Band Edge / Full RB



Date: 15.MAR.2023 17:13:06

Highest Band Edge / Full RB



Date: 15.MAR.2023 17:21:02