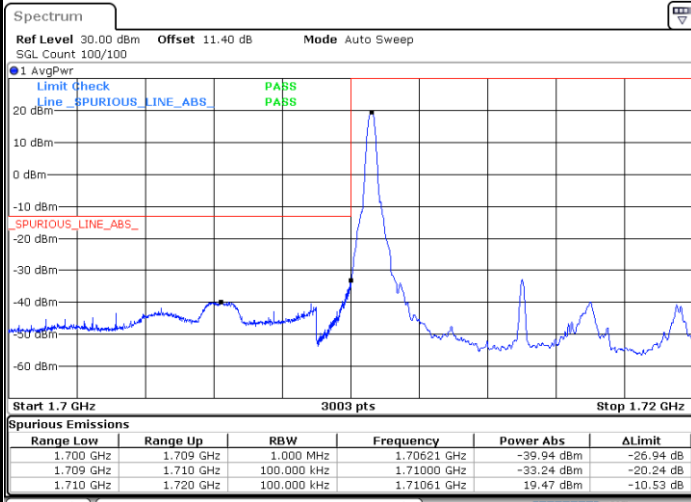




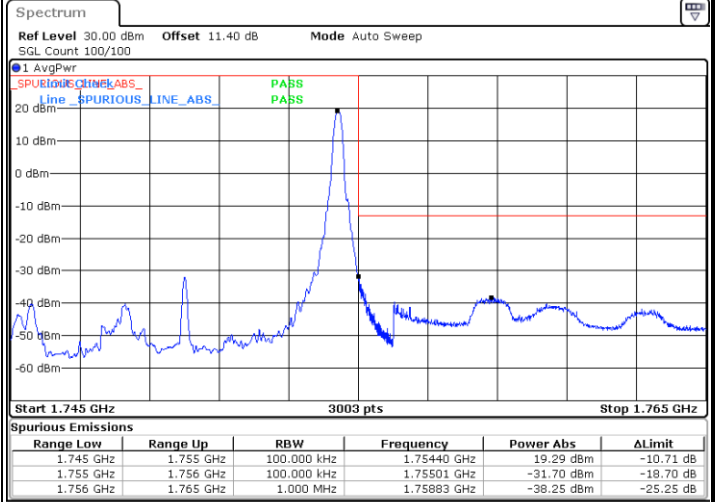
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



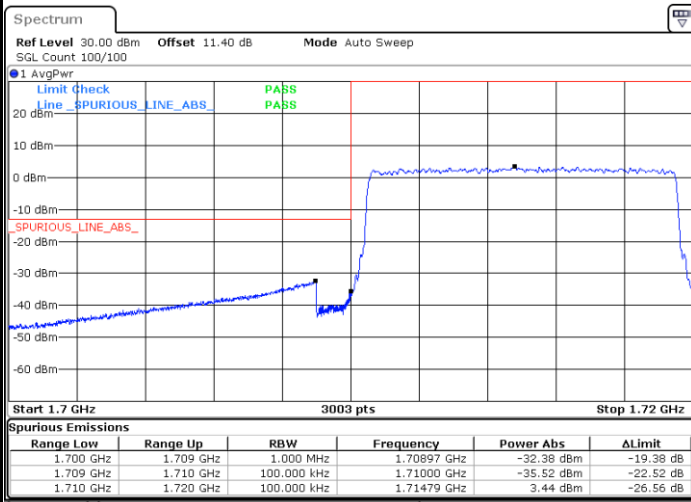
Date: 15.JAN.2022 23:49:31

Highest Band Edge / 1 RB



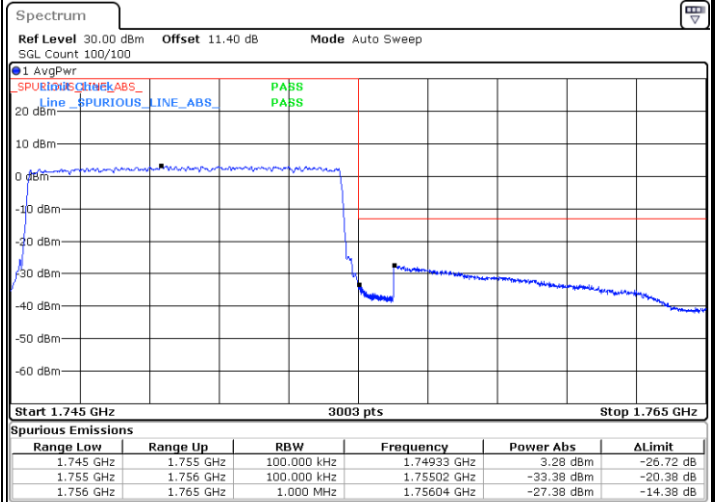
Date: 15.JAN.2022 23:55:16

Lowest Band Edge / Full RB



Date: 15.JAN.2022 23:50:52

Highest Band Edge / Full RB

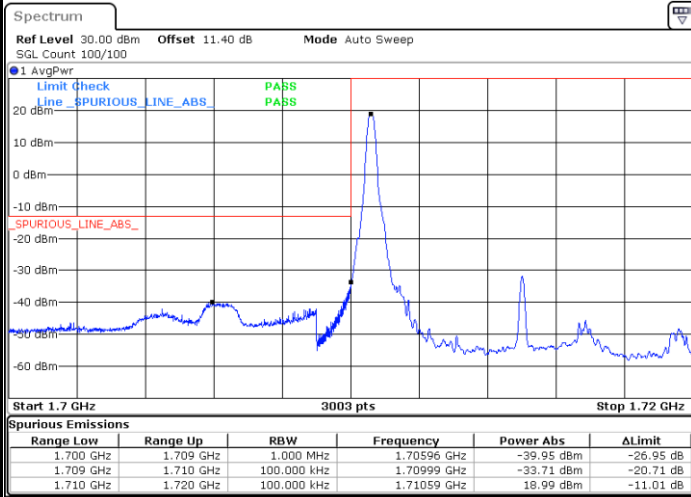


Date: 16.JAN.2022 00:04:37



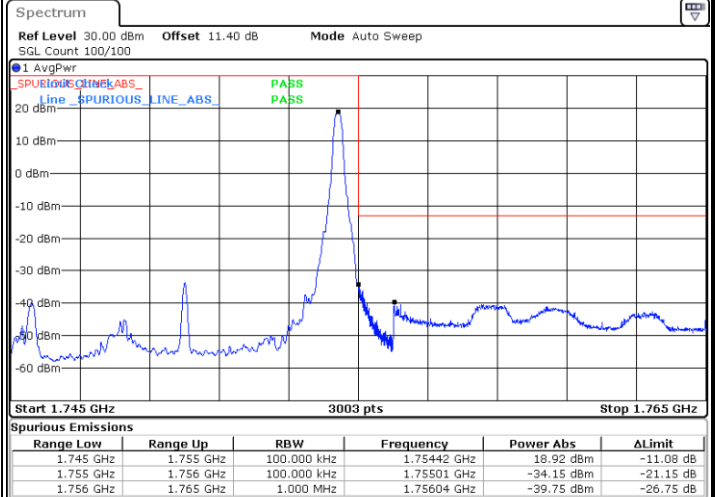
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



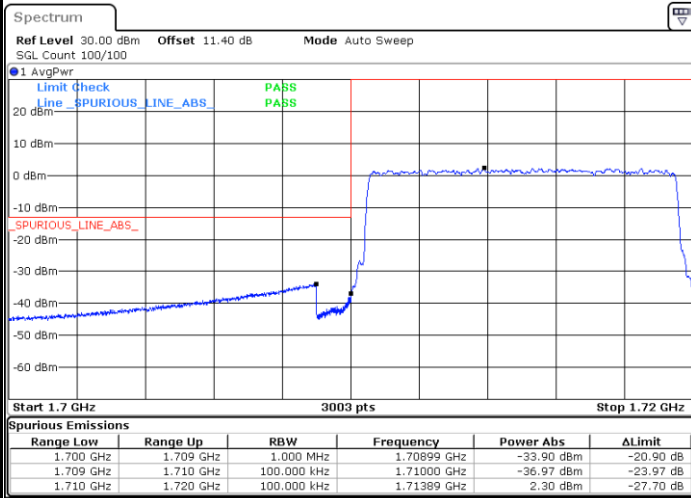
Date: 15.JAN.2022 23:50:11

Highest Band Edge / 1 RB



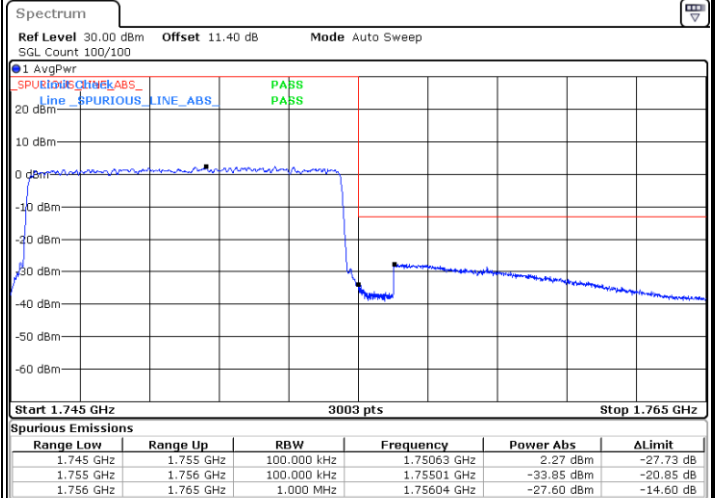
Date: 15.JAN.2022 23:55:56

Lowest Band Edge / Full RB



Date: 15.JAN.2022 23:51:32

Highest Band Edge / Full RB

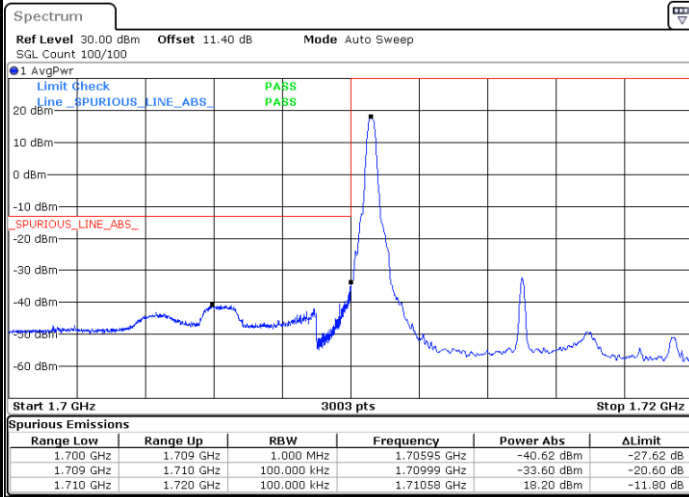


Date: 16.JAN.2022 00:05:17



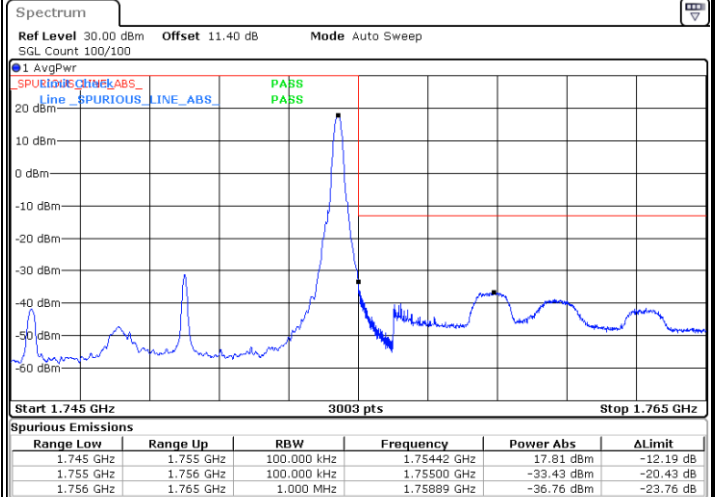
LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



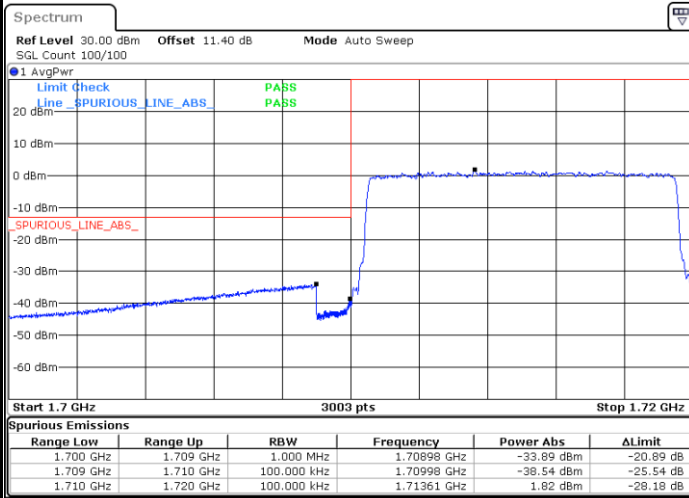
Date: 16.JAN.2022 00:06:49

Highest Band Edge / 1 RB



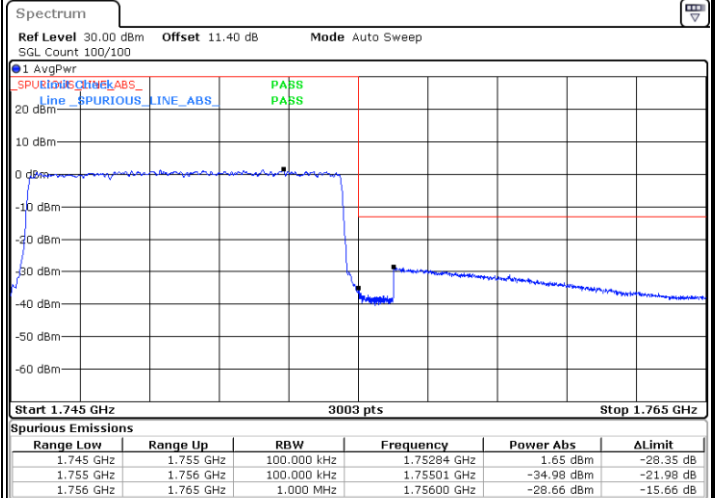
Date: 16.JAN.2022 00:08:51

Lowest Band Edge / Full RB



Date: 16.JAN.2022 00:07:29

Highest Band Edge / Full RB

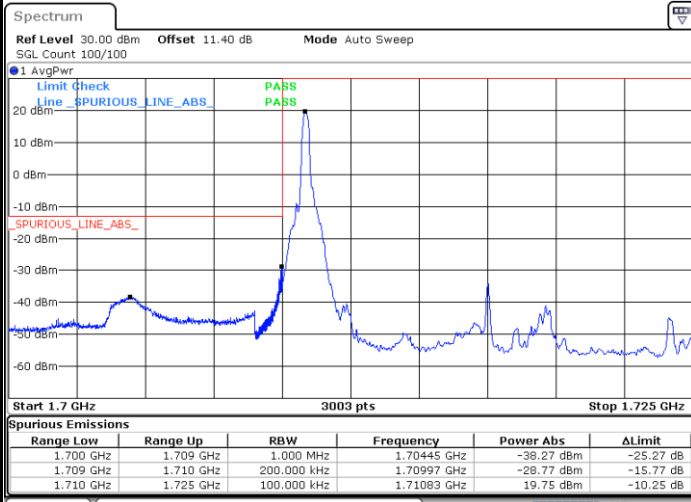


Date: 16.JAN.2022 00:09:32



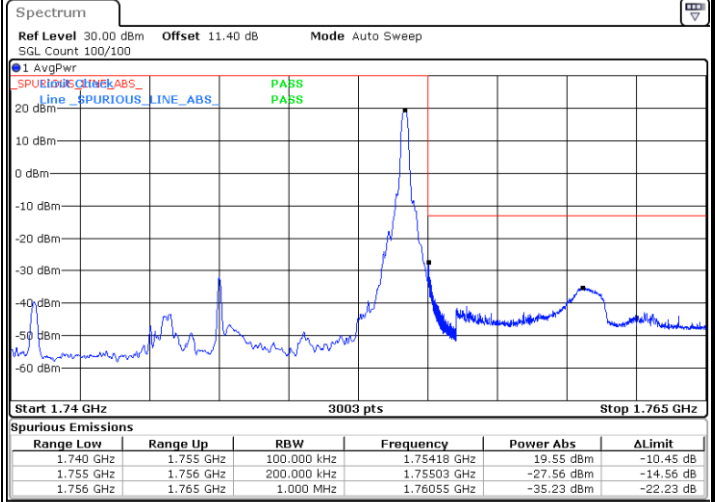
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



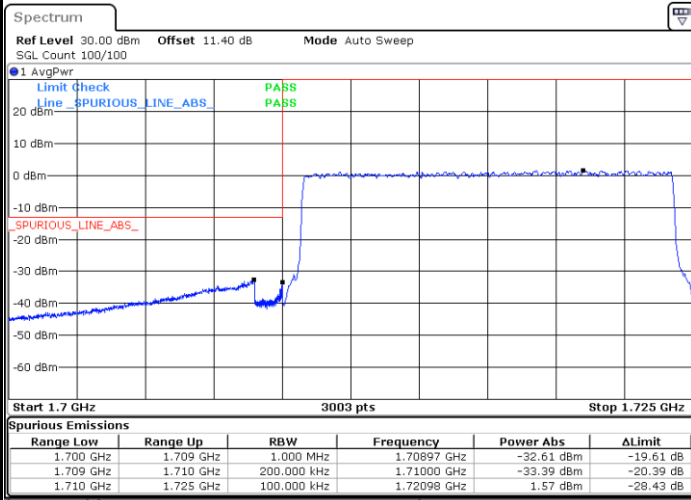
Date: 16.JAN.2022 00:10:13

Highest Band Edge / 1 RB



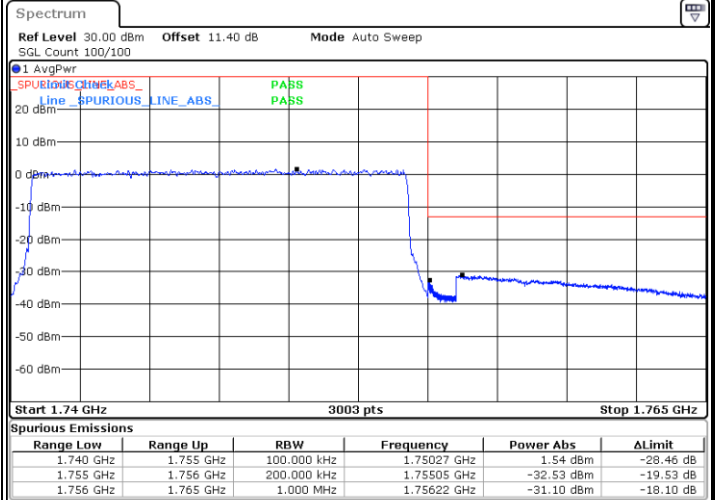
Date: 16.JAN.2022 00:16:00

Lowest Band Edge / Full RB



Date: 16.JAN.2022 00:11:34

Highest Band Edge / Full RB

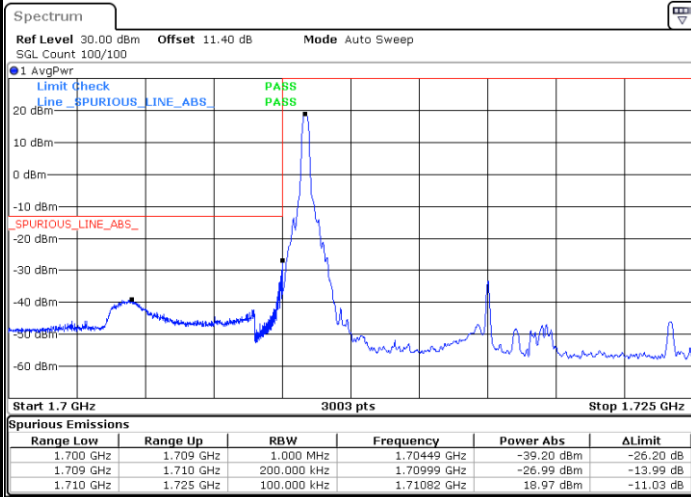


Date: 16.JAN.2022 00:24:14



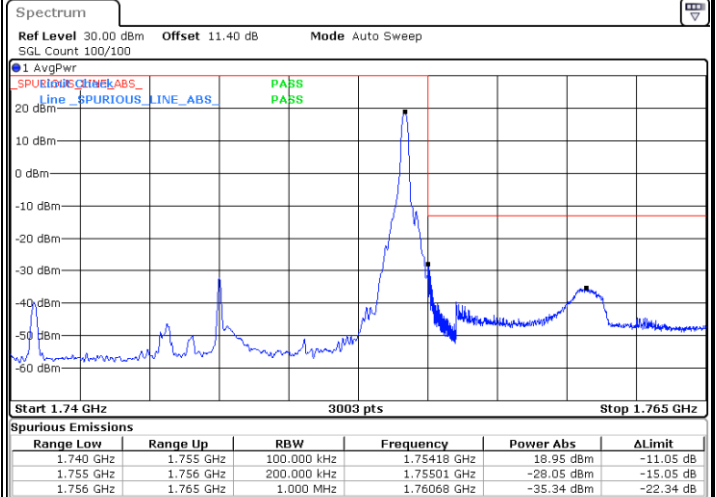
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



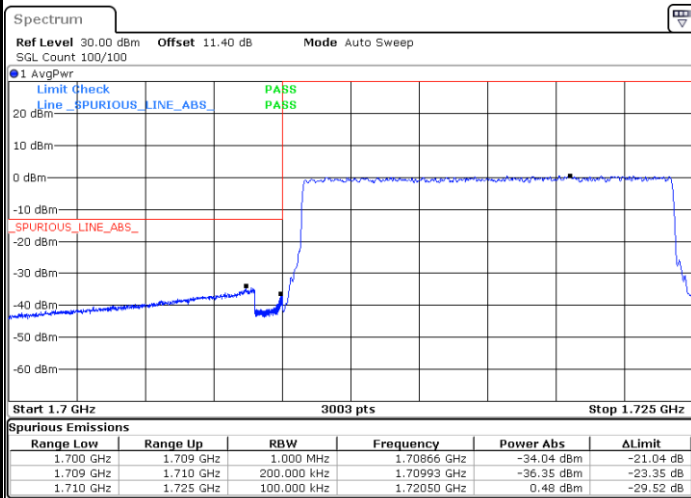
Date: 16.JAN.2022 00:10:53

Highest Band Edge / 1 RB



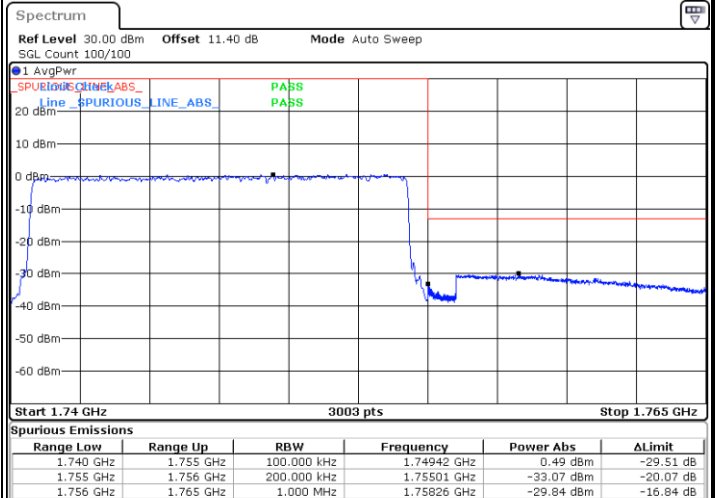
Date: 16.JAN.2022 00:23:33

Lowest Band Edge / Full RB



Date: 16.JAN.2022 00:12:15

Highest Band Edge / Full RB

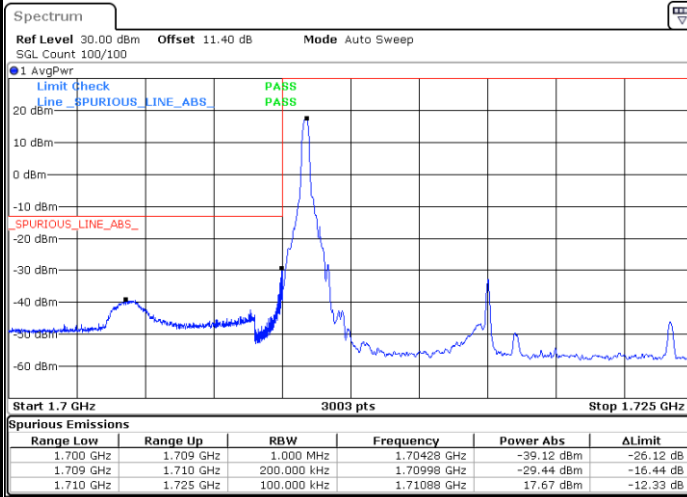


Date: 16.JAN.2022 00:24:54



LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



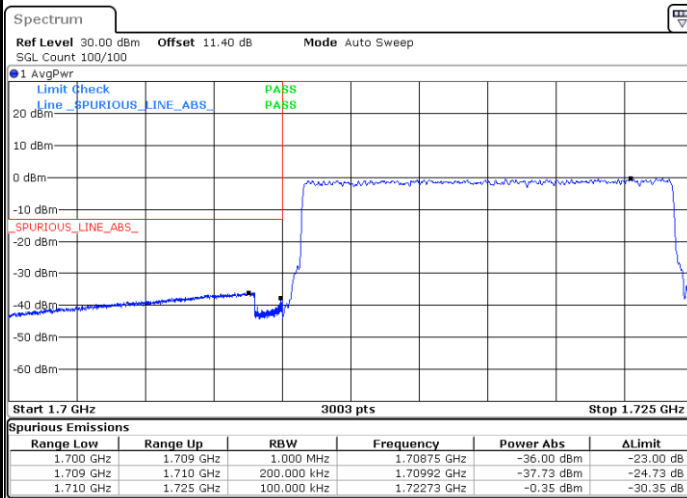
Date: 16.JAN.2022 00:26:26

Highest Band Edge / 1 RB



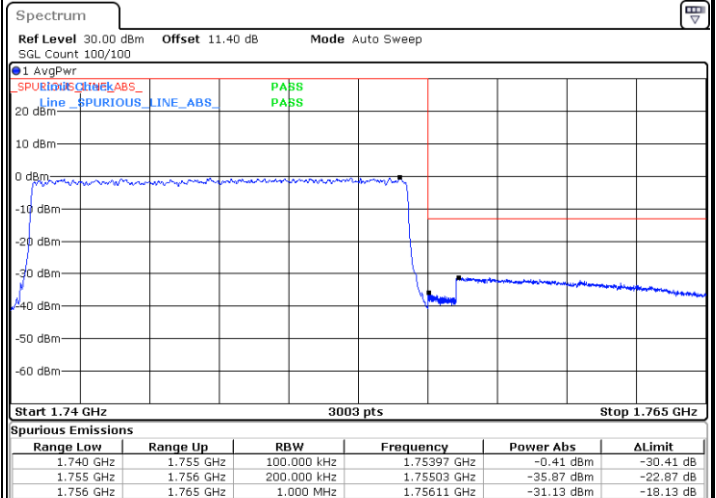
Date: 16.JAN.2022 00:28:29

Lowest Band Edge / Full RB



Date: 16.JAN.2022 00:27:06

Highest Band Edge / Full RB

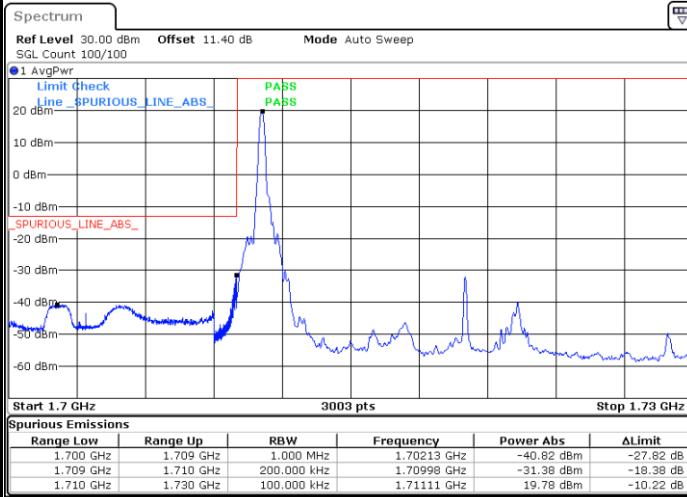


Date: 16.JAN.2022 00:29:09



LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



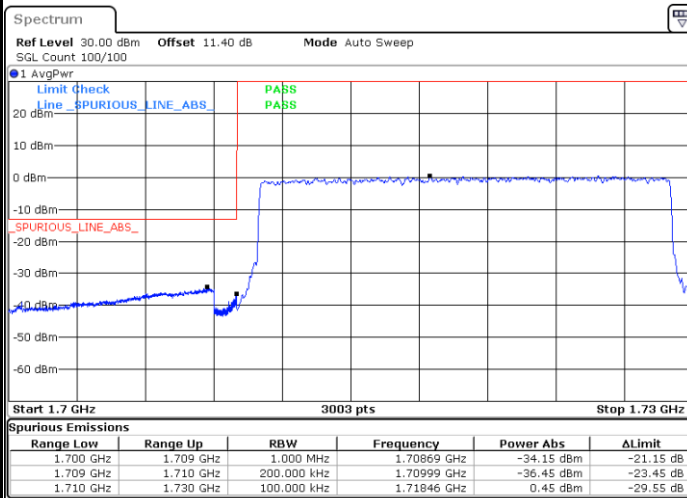
Date: 16.JAN.2022 00:29:50

Highest Band Edge / 1 RB



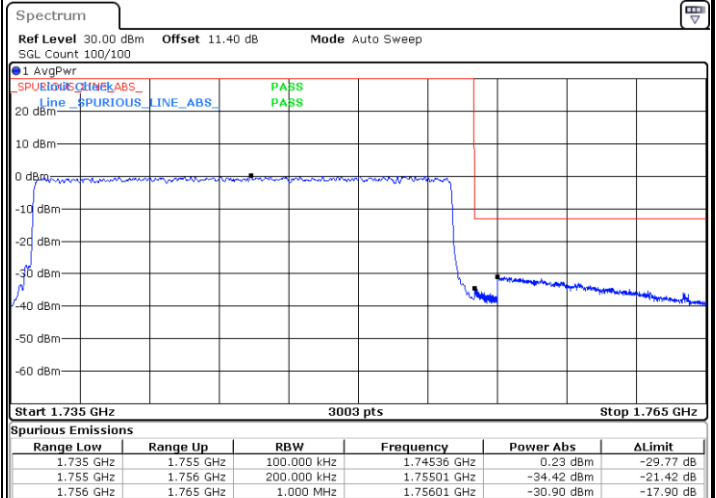
Date: 16.JAN.2022 00:35:36

Lowest Band Edge / Full RB



Date: 16.JAN.2022 00:31:11

Highest Band Edge / Full RB

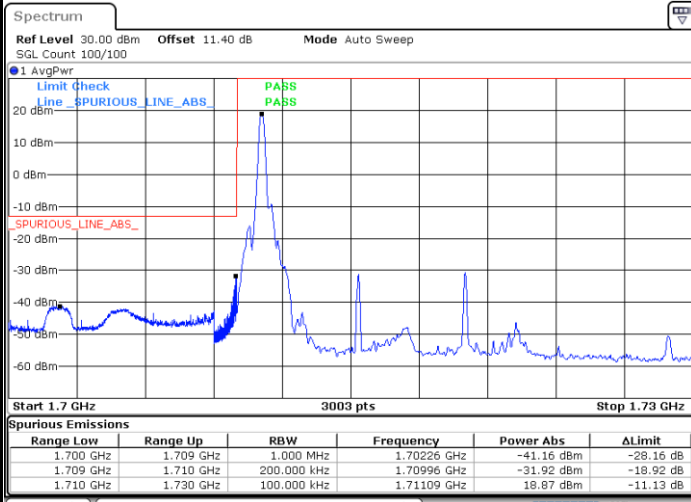


Date: 16.JAN.2022 00:36:56



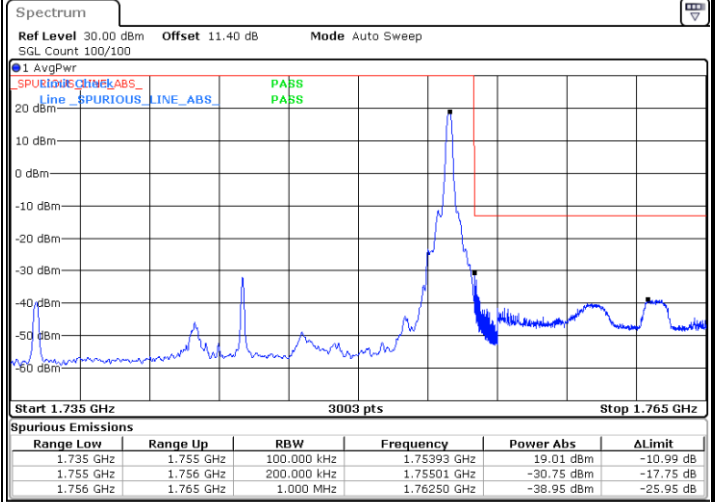
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



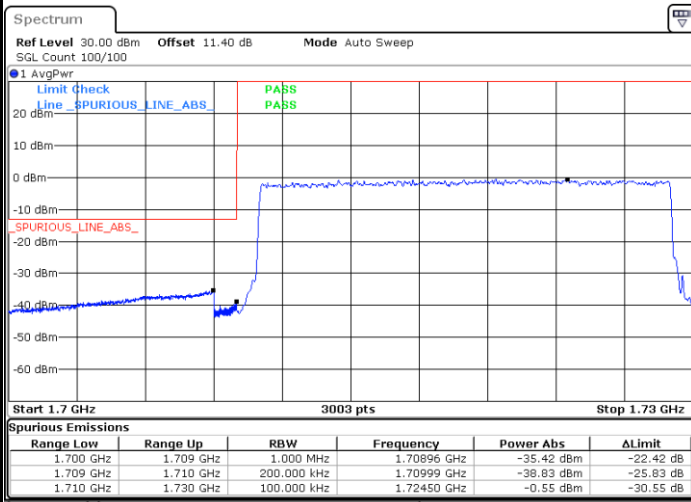
Date: 16.JAN.2022 00:30:30

Highest Band Edge / 1 RB



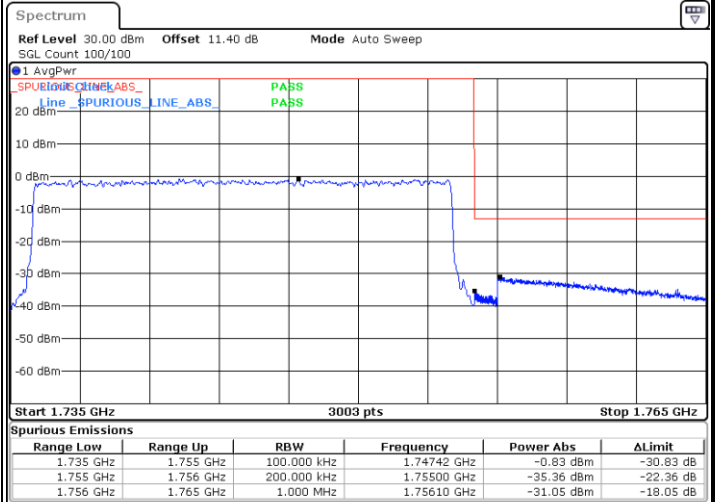
Date: 16.JAN.2022 00:36:16

Lowest Band Edge / Full RB



Date: 16.JAN.2022 00:31:51

Highest Band Edge / Full RB

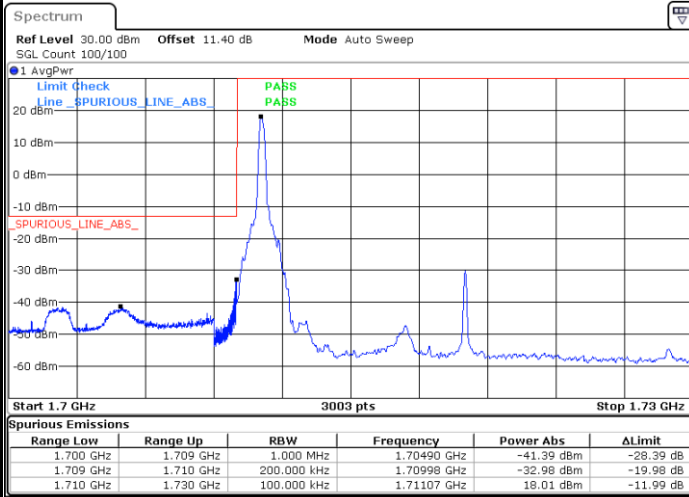


Date: 16.JAN.2022 00:37:37



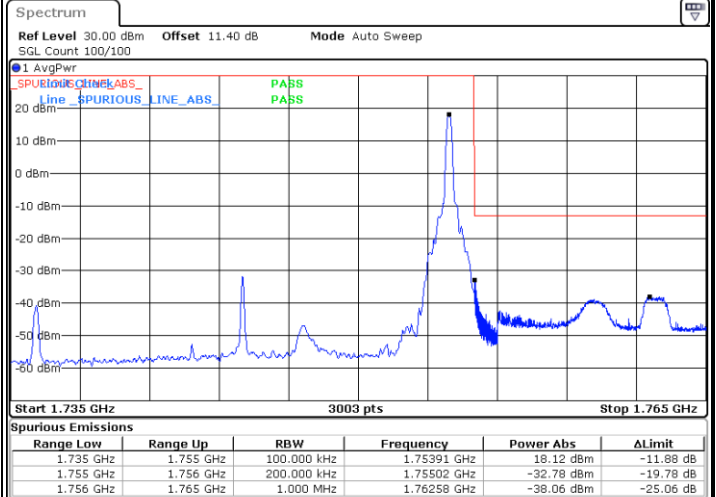
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



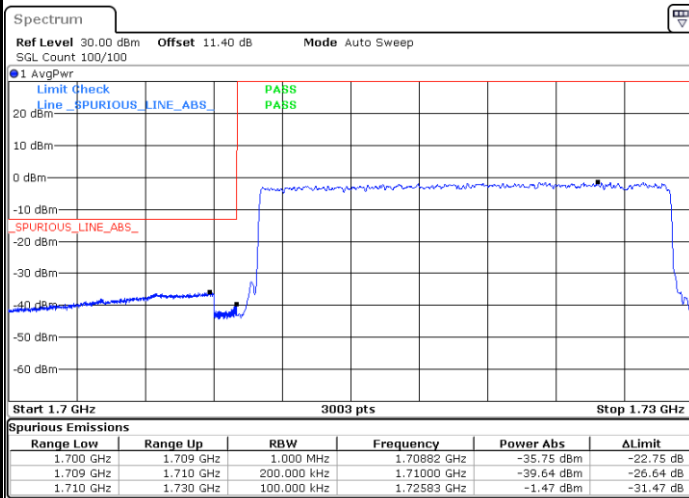
Date: 16.JAN.2022 00:39:07

Highest Band Edge / 1 RB



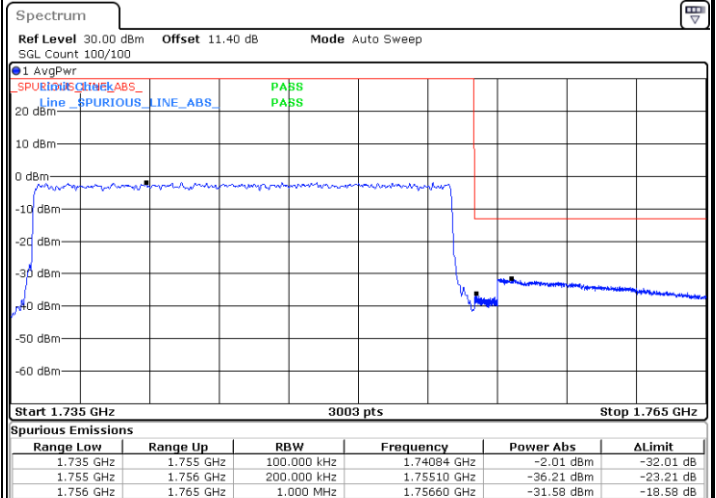
Date: 16.JAN.2022 00:41:10

Lowest Band Edge / Full RB



Date: 16.JAN.2022 00:39:48

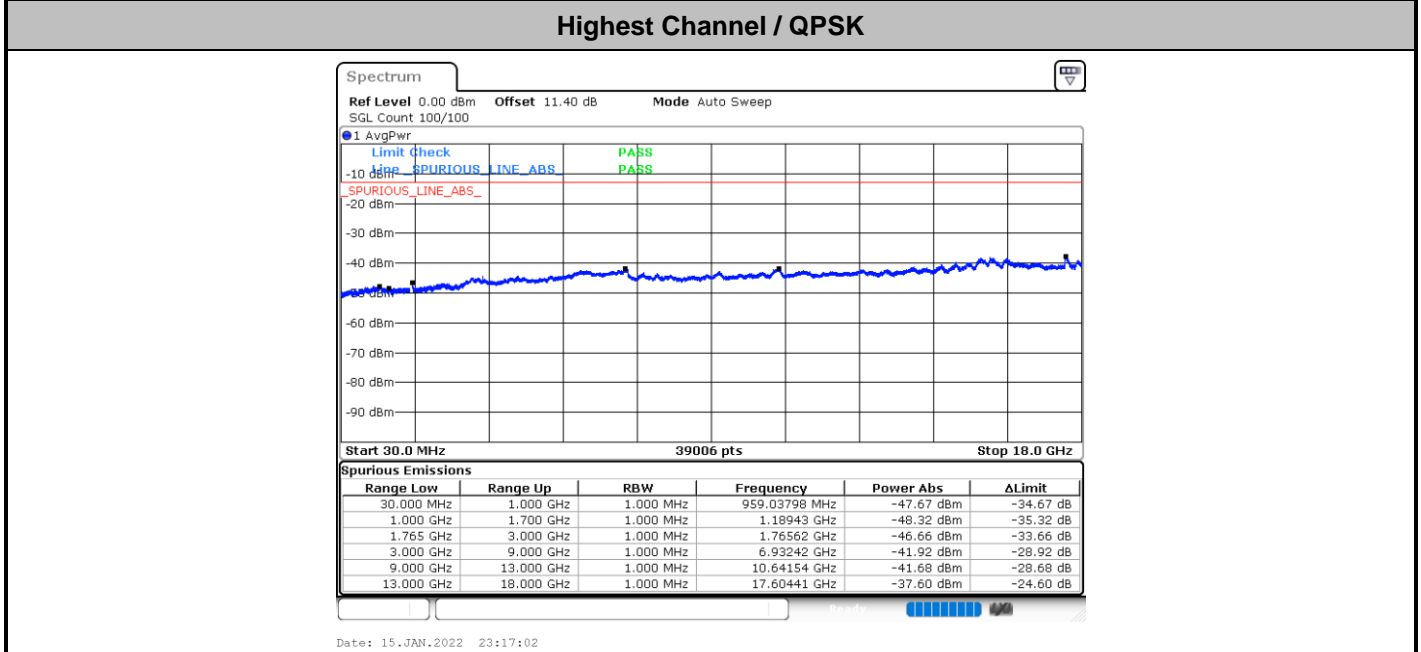
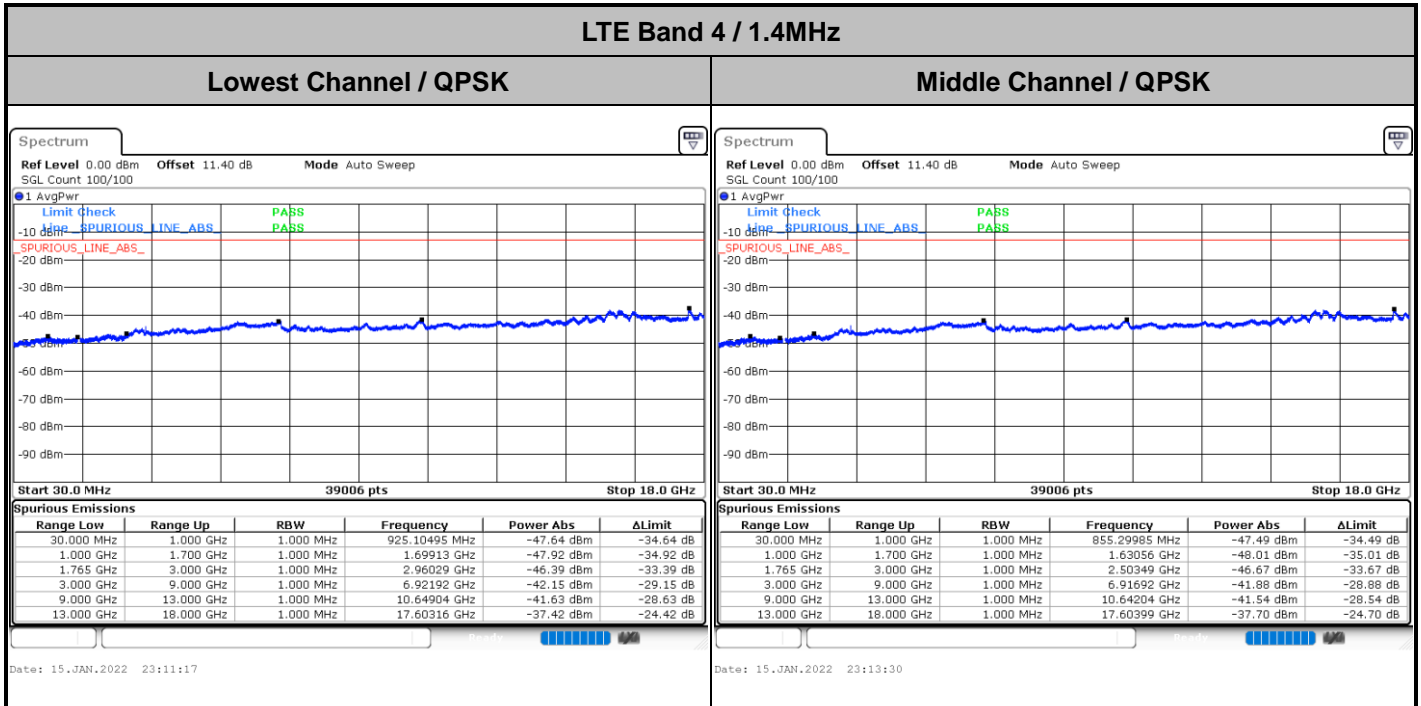
Highest Band Edge / Full RB



Date: 16.JAN.2022 00:41:51



Conducted Spurious Emission

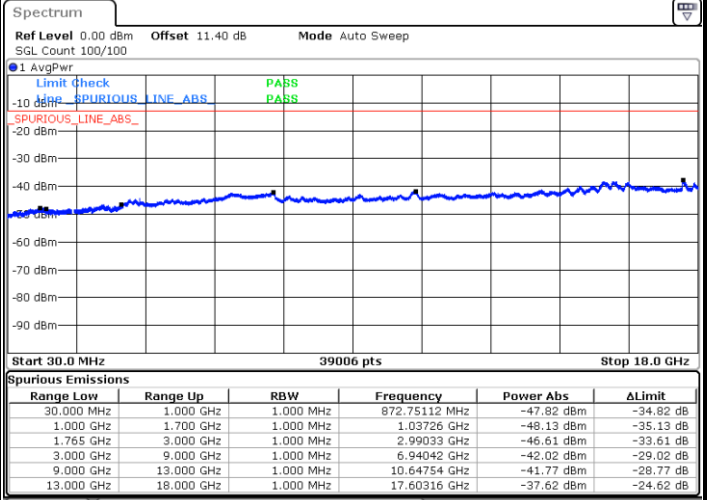
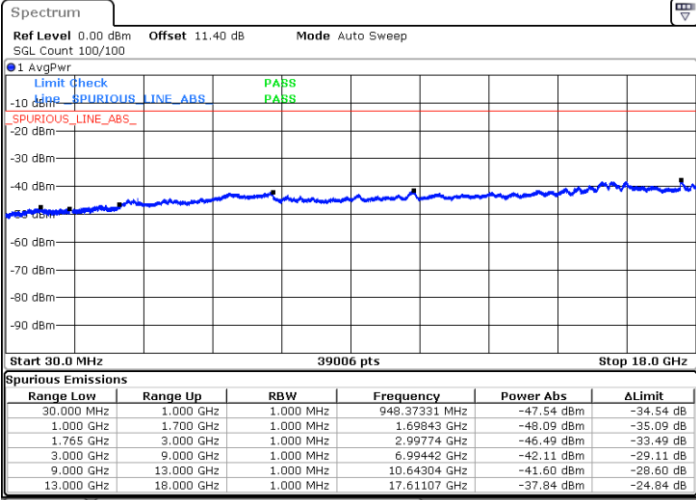




LTE Band 4 / 3MHz

Lowest Channel / QPSK

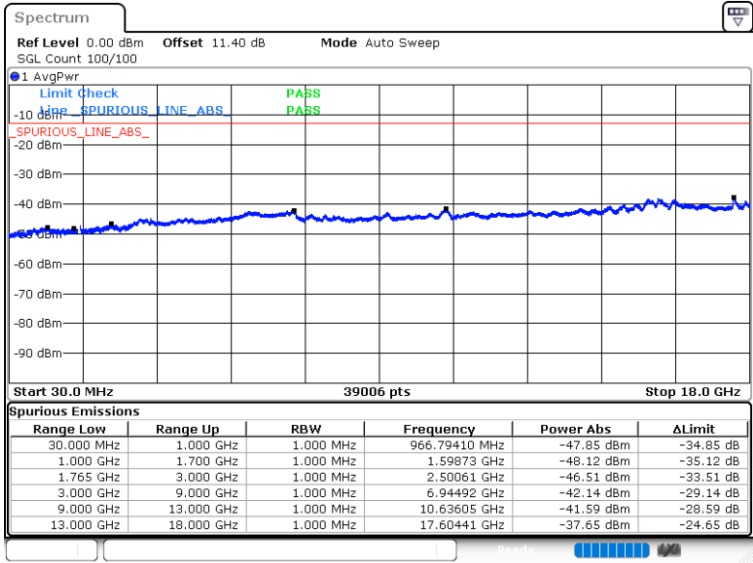
Middle Channel / QPSK



Date: 15.JAN.2022 23:26:59

Date: 15.JAN.2022 23:29:12

Highest Channel / QPSK



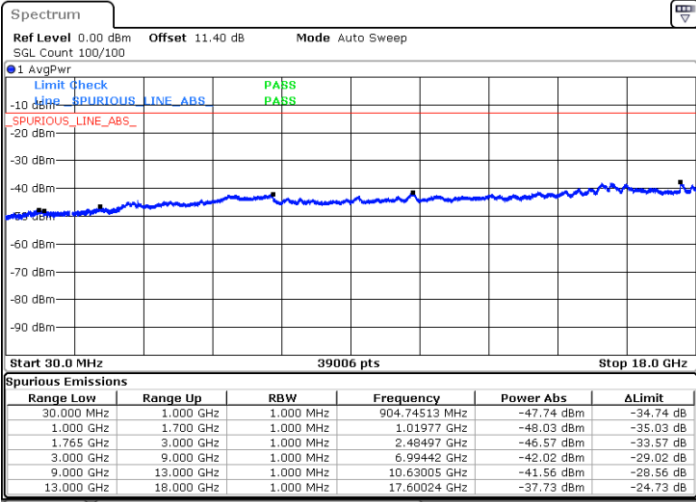
Date: 15.JAN.2022 23:32:44



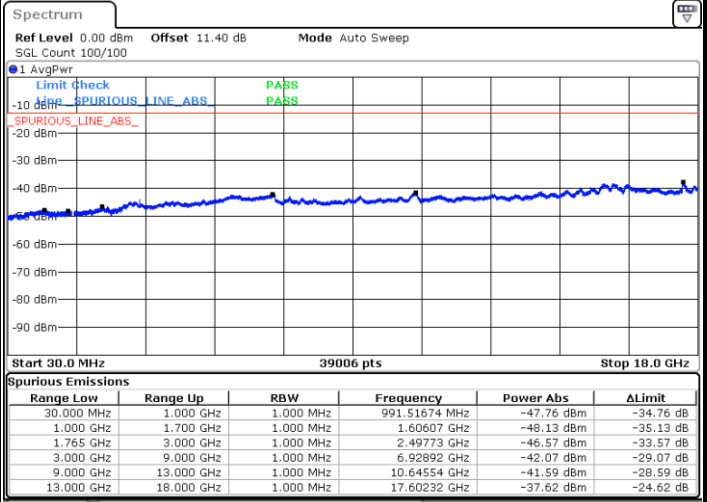
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

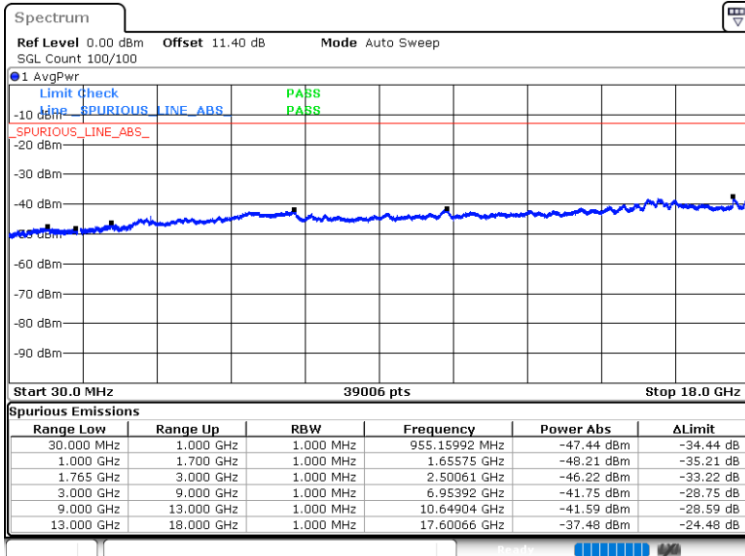


Date: 15.JAN.2022 23:43:04



Date: 15.JAN.2022 23:45:18

Highest Channel / QPSK



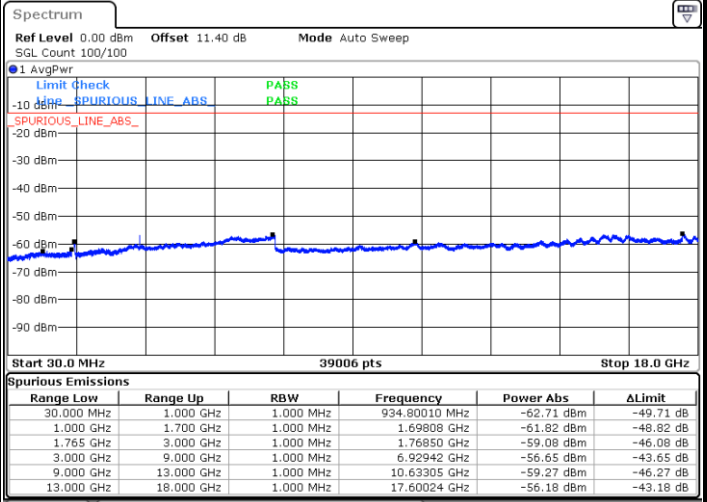
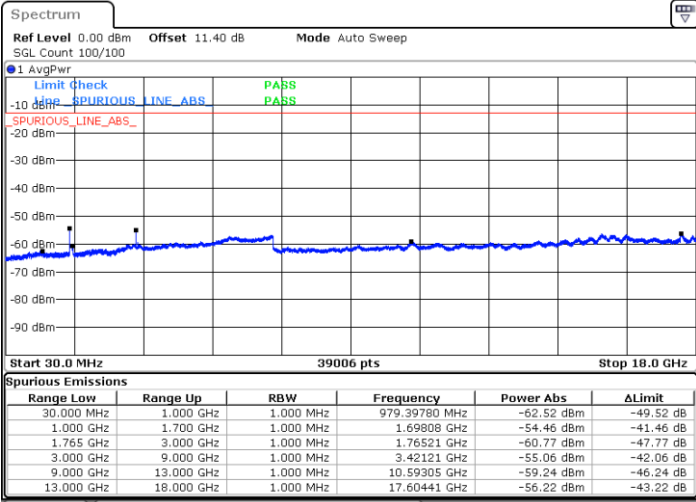
Date: 15.JAN.2022 23:48:49



LTE Band 4 / 10MHz

Lowest Channel / QPSK

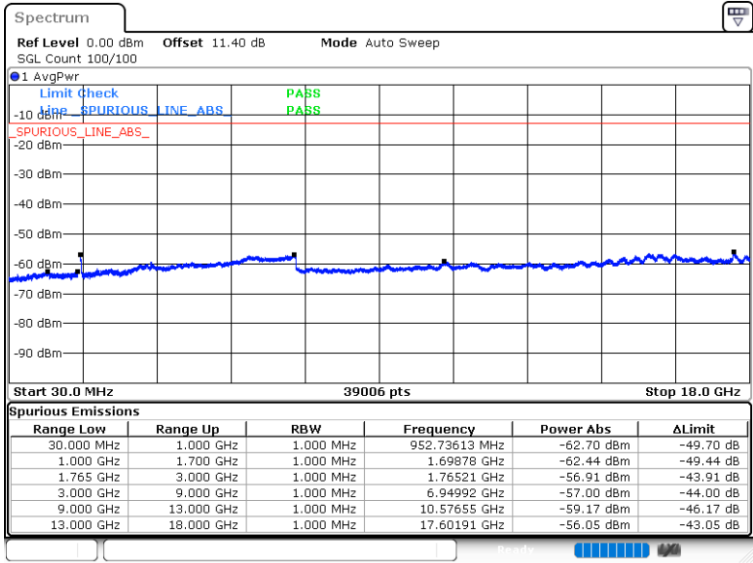
Middle Channel / QPSK



Date: 15.JAN.2022 23:52:22

Date: 15.JAN.2022 23:54:36

Highest Channel / QPSK



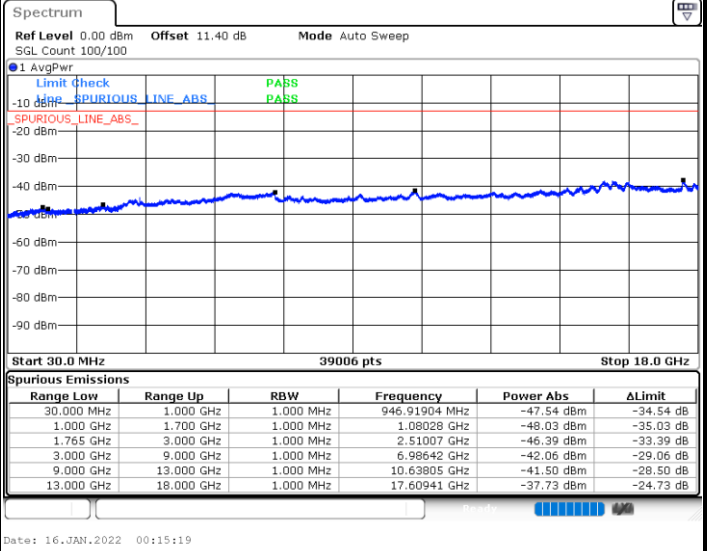
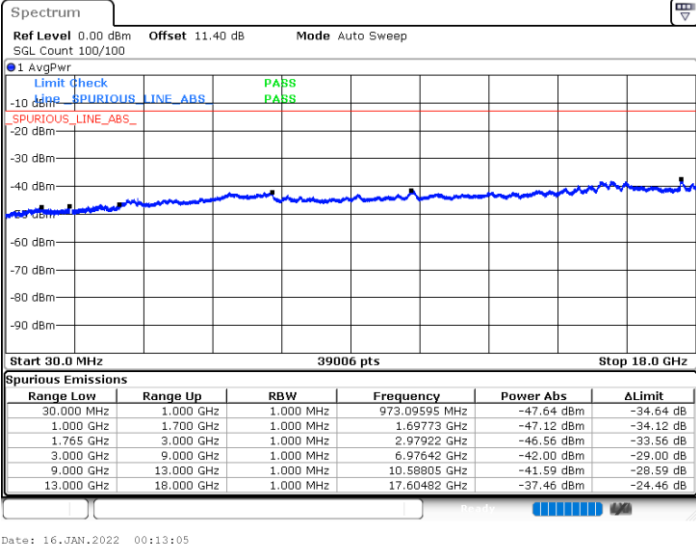
Date: 16.JAN.2022 00:06:07



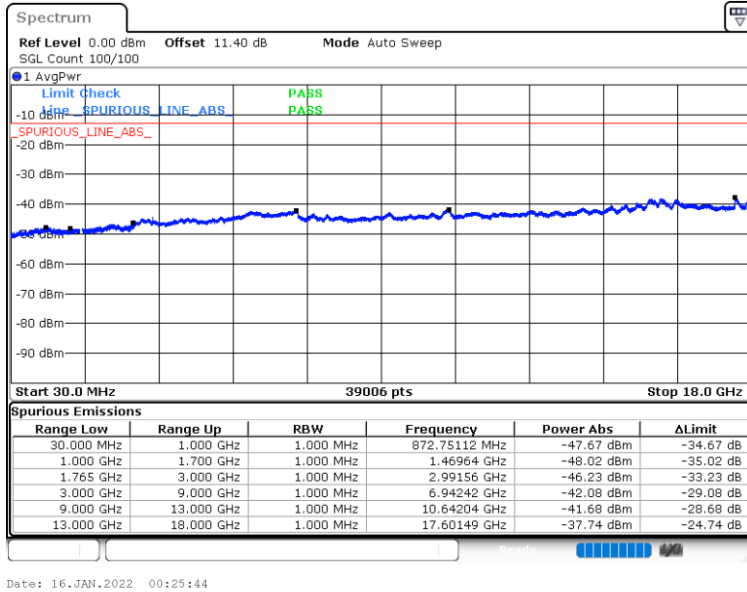
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

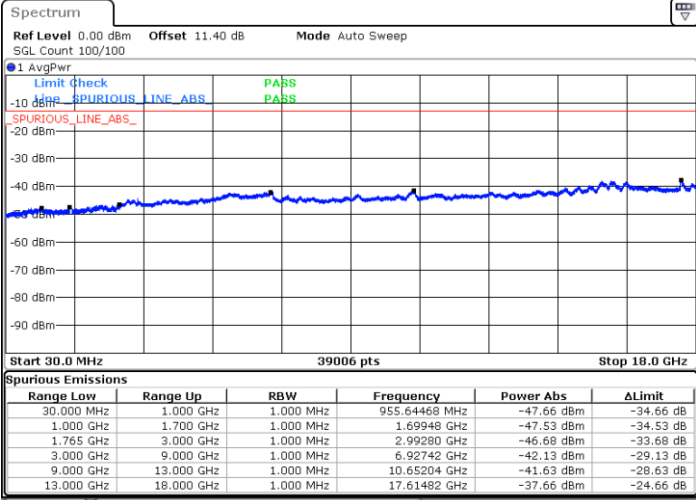




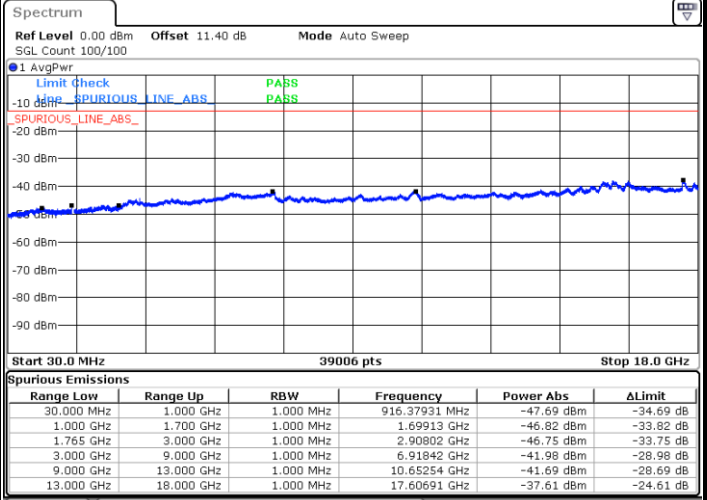
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

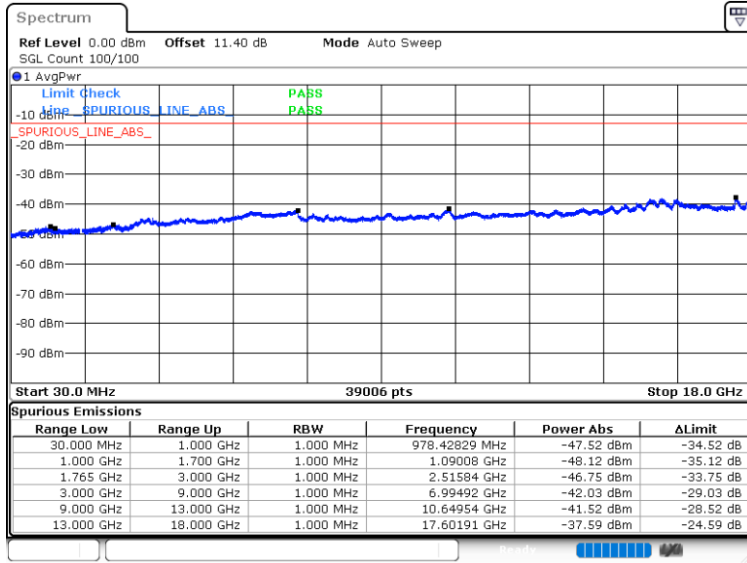


Date: 16.JAN.2022 00:32:41



Date: 16.JAN.2022 00:34:55

Highest Channel / QPSK



Date: 16.JAN.2022 00:38:27



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	0.0044	PASS
40	Normal Voltage	0.0087	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0079	
-20	Normal Voltage	0.0039	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0083	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

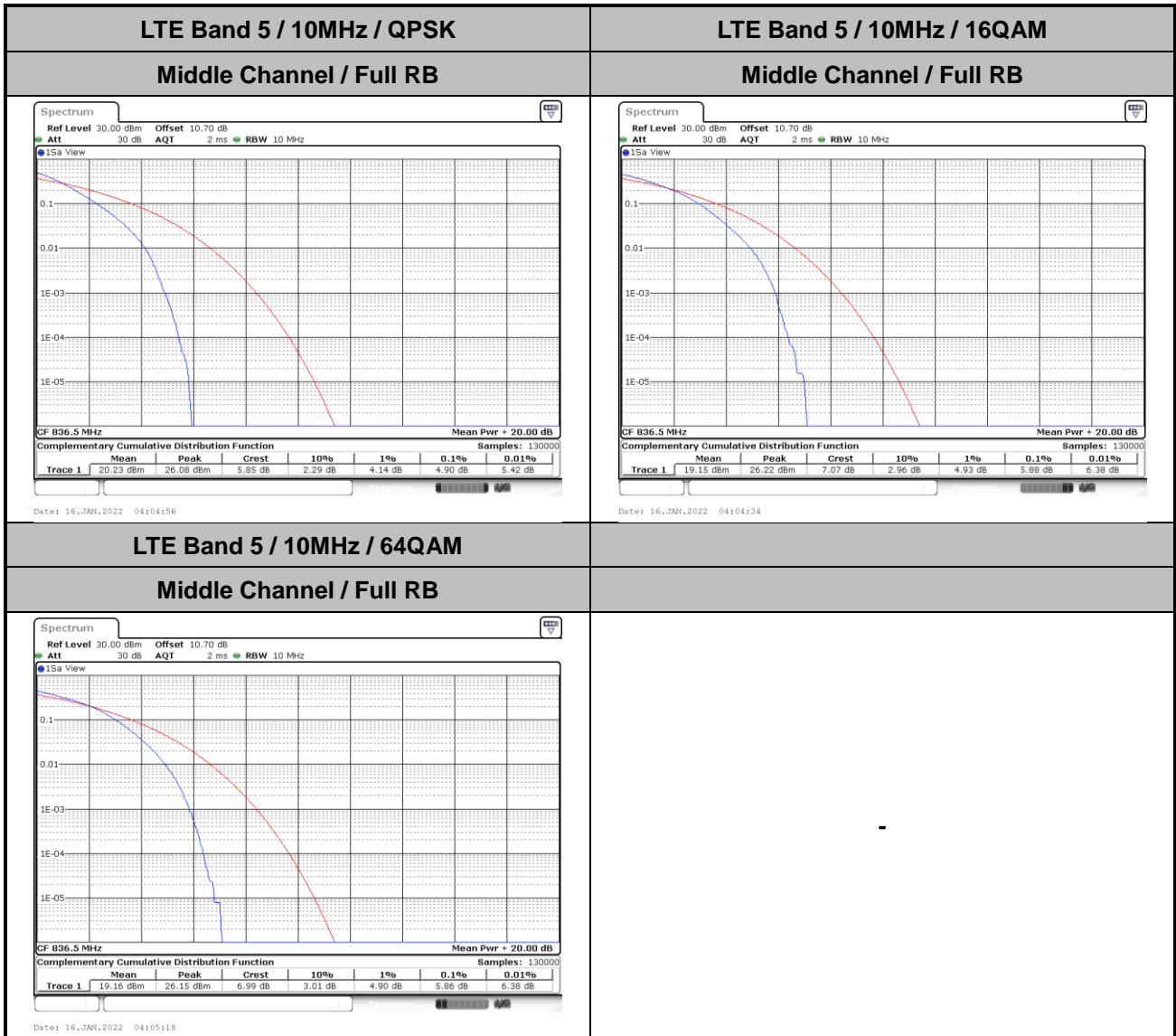
- 1. Normal Voltage = 14 V. ; Battery End Point (BEP) = 12 V. ; Maximum Voltage = 16 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.90	5.88	5.86	PASS





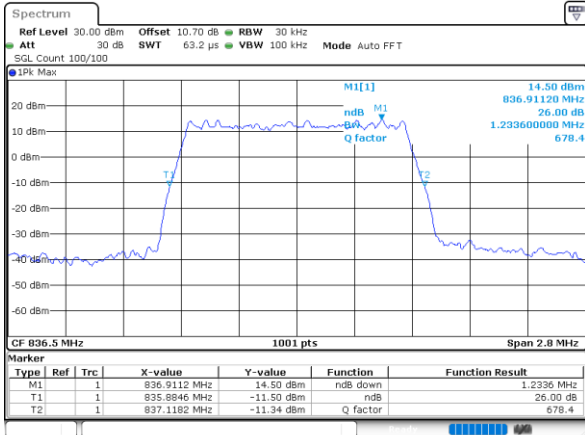
26dB Bandwidth

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	1.23	1.23	3.04	3.00	4.86	4.86	9.89	9.89	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.23	-	3.02	-	4.91	-	9.87	-	-	-	-	-



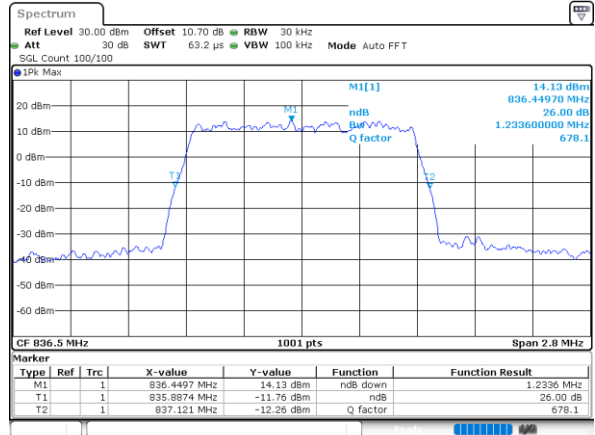
LTE Band 5

Middle Channel / 1.4MHz / QPSK



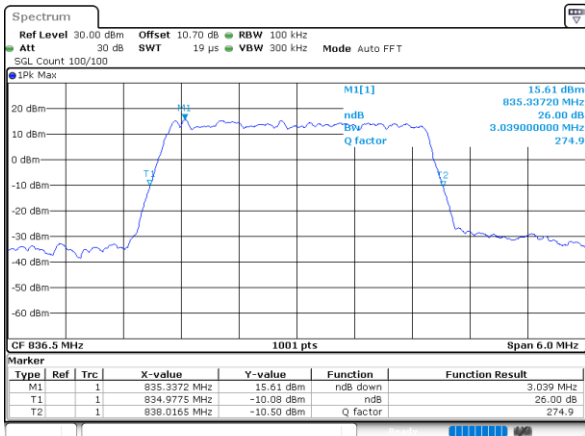
Date: 16_JAN.2022 03:00:29

Middle Channel / 1.4MHz / 16QAM



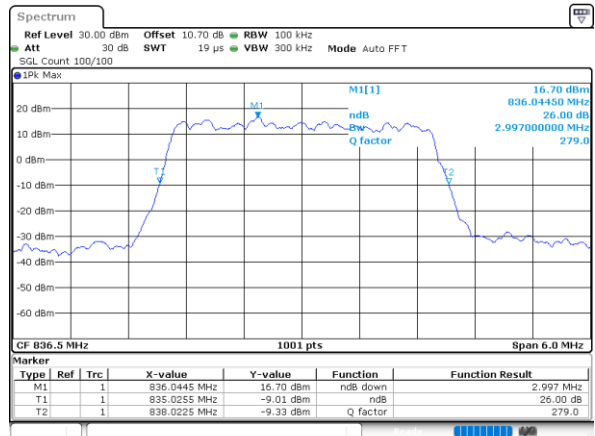
Date: 16_JAN.2022 03:00:49

Middle Channel / 3MHz / QPSK



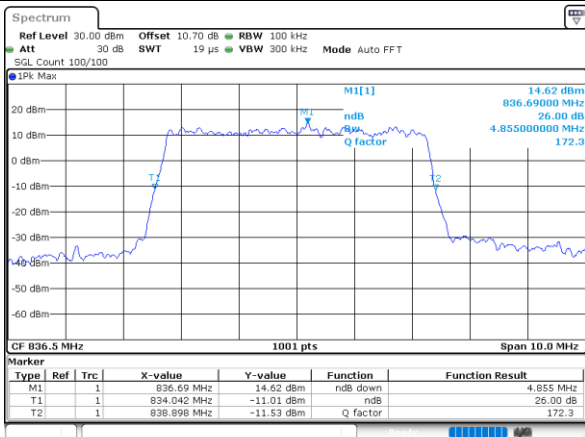
Date: 16_JAN.2022 03:30:00

Middle Channel / 3MHz / 16QAM



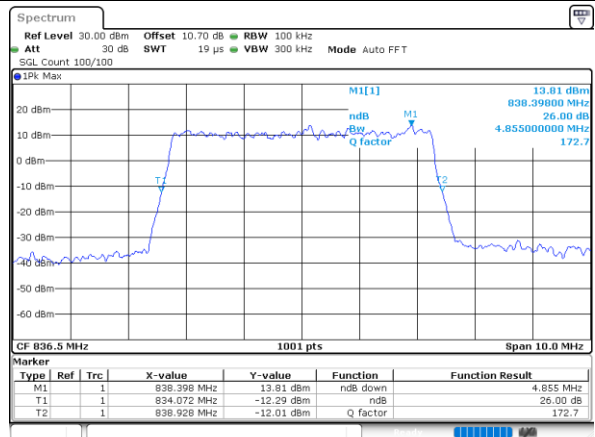
Date: 16_JAN.2022 03:30:10

Middle Channel / 5MHz / QPSK



Date: 16_JAN.2022 03:42:55

Middle Channel / 5MHz / 16QAM

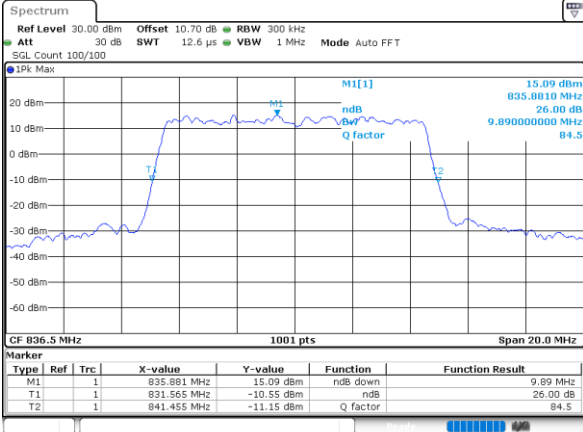


Date: 16_JAN.2022 03:43:15



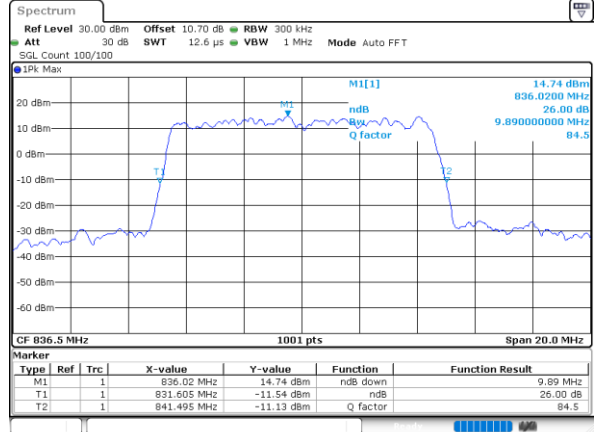
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 16_JAN_2022 03:55:50

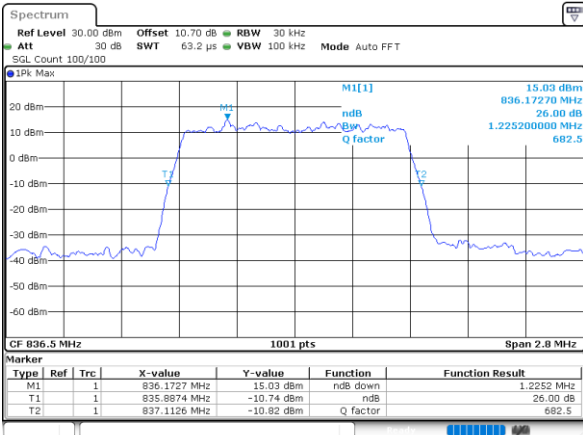
Middle Channel / 10MHz / 16QAM



Date: 16_JAN_2022 03:56:11

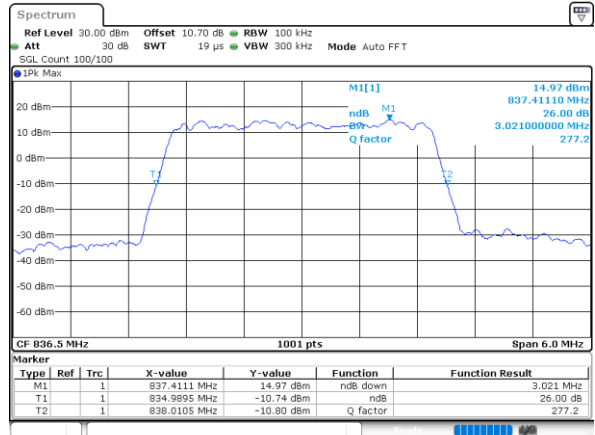
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



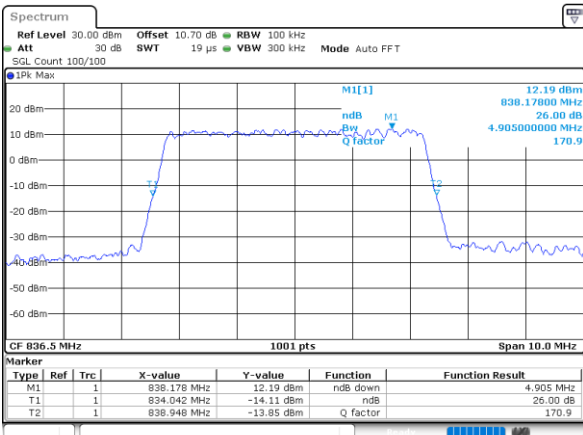
Date: 16_JAN_2022 03:23:59

Middle Channel / 3MHz / 64QAM



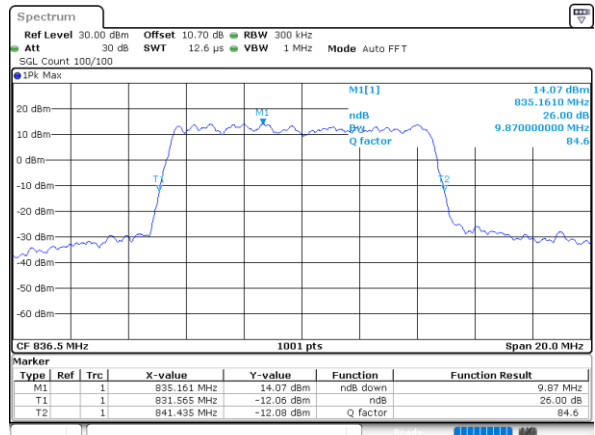
Date: 16_JAN_2022 03:16:53

Middle Channel / 5MHz / 64QAM



Date: 16_JAN_2022 03:49:50

Middle Channel / 10MHz / 64QAM



Date: 16_JAN_2022 04:02:46



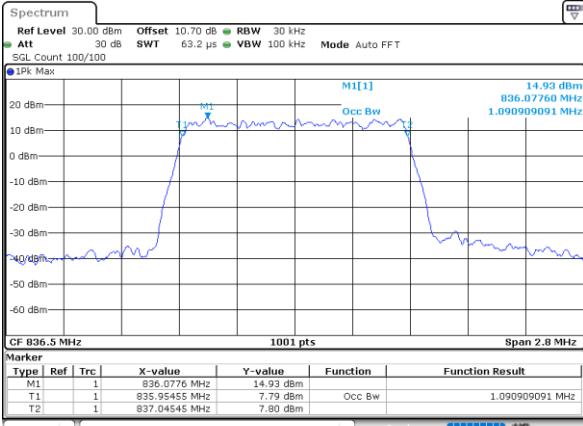
Occupied Bandwidth

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	1.10	2.72	2.71	4.49	4.50	9.03	9.01	-	-	-	-
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.09	-	2.73	-	4.52	-	9.01	-	-	-	-	-



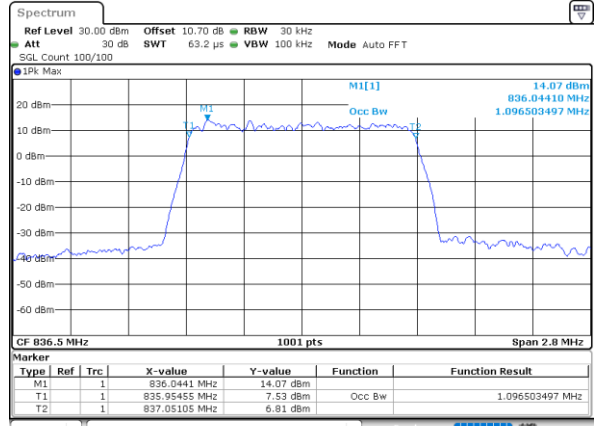
LTE Band 5

Middle Channel / 1.4MHz / QPSK



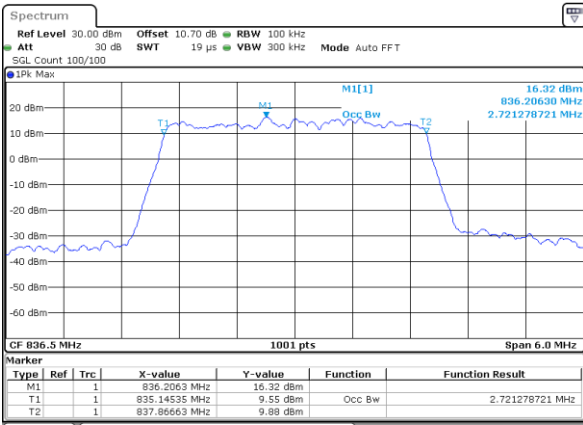
Date: 16_JAN,2022 02:59:47

Middle Channel / 1.4MHz / 16QAM



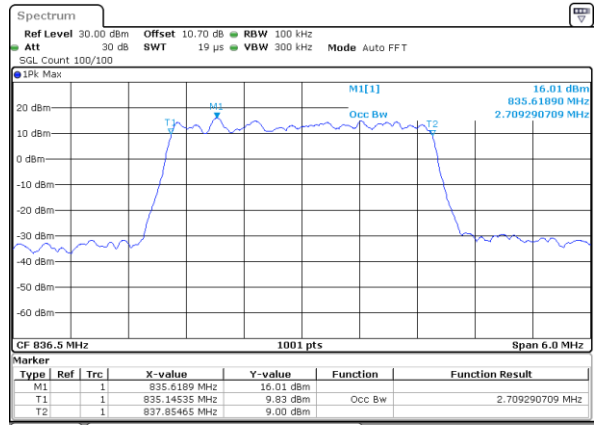
Date: 16_JAN,2022 03:00:08

Middle Channel / 3MHz / QPSK



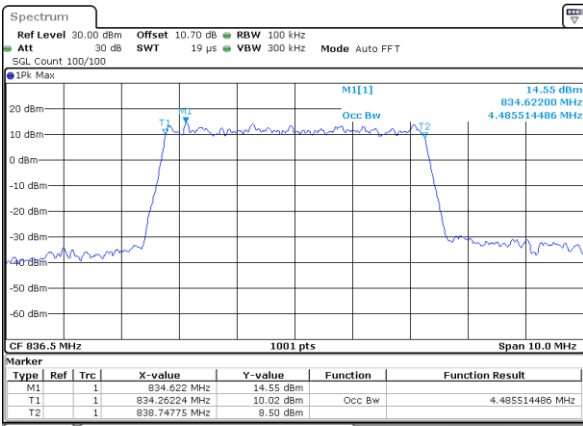
Date: 16_JAN,2022 03:29:18

Middle Channel / 3MHz / 16QAM



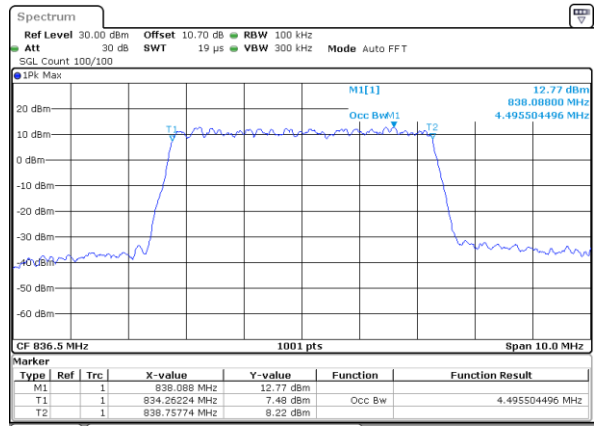
Date: 16_JAN,2022 03:29:39

Middle Channel / 5MHz / QPSK



Date: 16_JAN,2022 03:42:13

Middle Channel / 5MHz / 16QAM

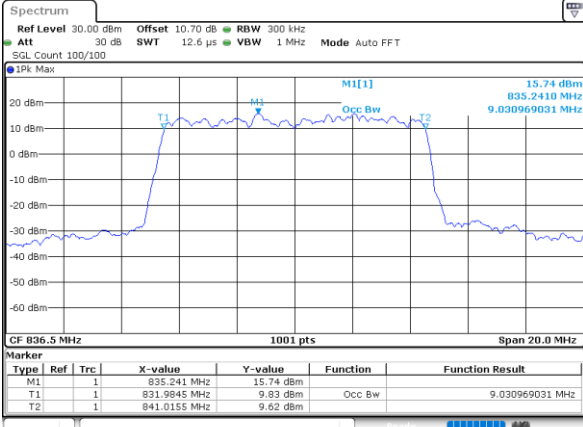


Date: 16_JAN,2022 03:42:34



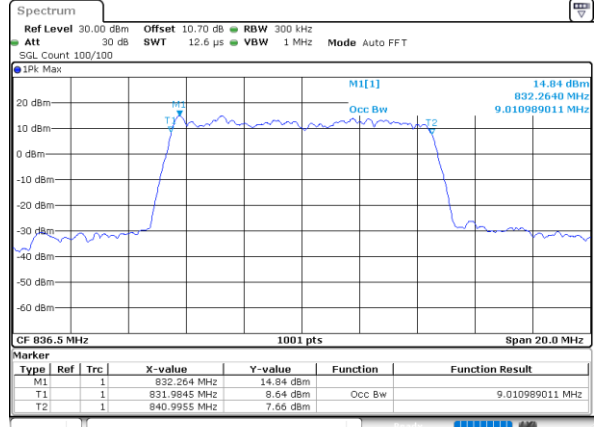
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 16 JAN 2022 03:55:09

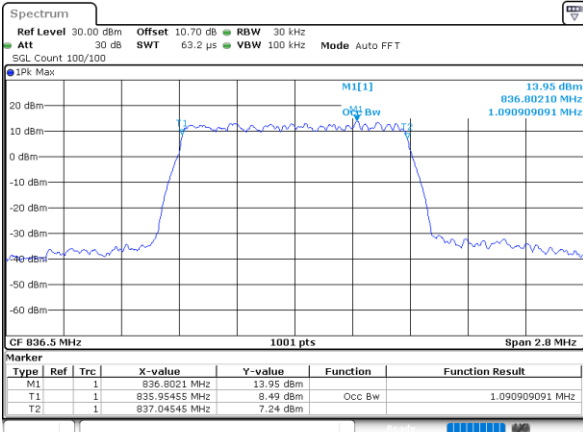
Middle Channel / 10MHz / 16QAM



Date: 16 JAN 2022 03:55:130

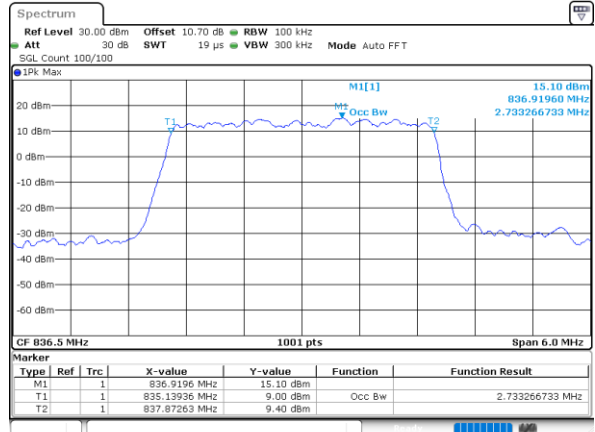
LTE Band 5

Middle Channel / 1.4MHz / 64QAM



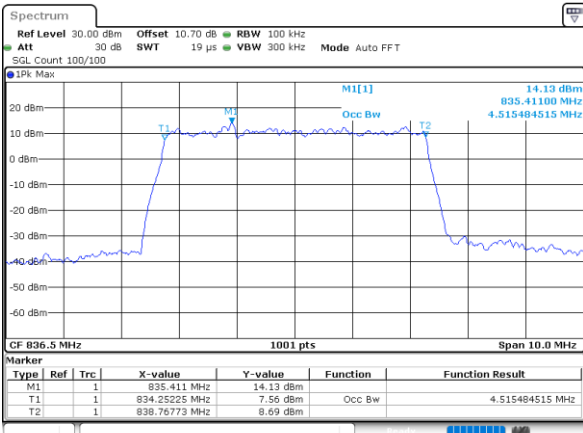
Date: 16 JAN 2022 03:23:38

Middle Channel / 3MHz / 64QAM



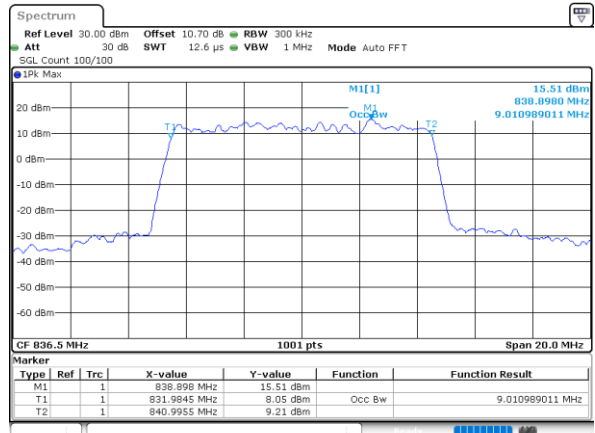
Date: 16 JAN 2022 03:13:133

Middle Channel / 5MHz / 64QAM



Date: 16 JAN 2022 03:49:29

Middle Channel / 10MHz / 64QAM



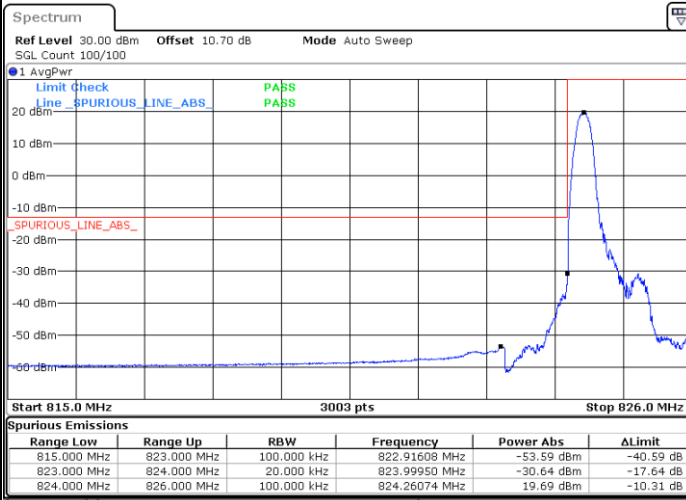
Date: 16 JAN 2022 04:02:125



Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



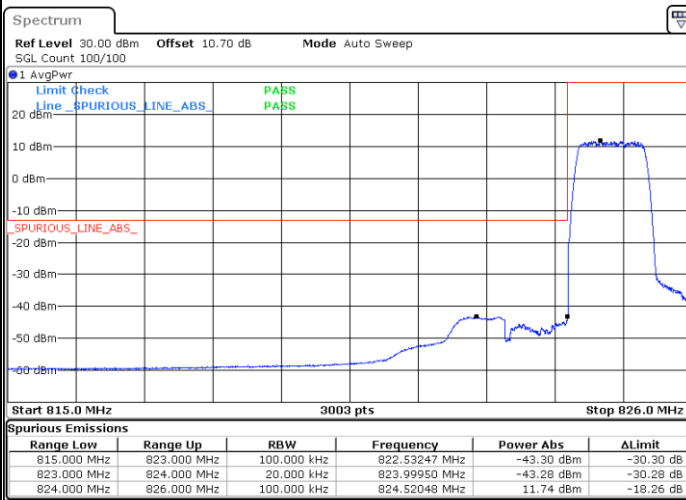
Date: 16.JAN.2022 02:56:35

Highest Band Edge / 1RB



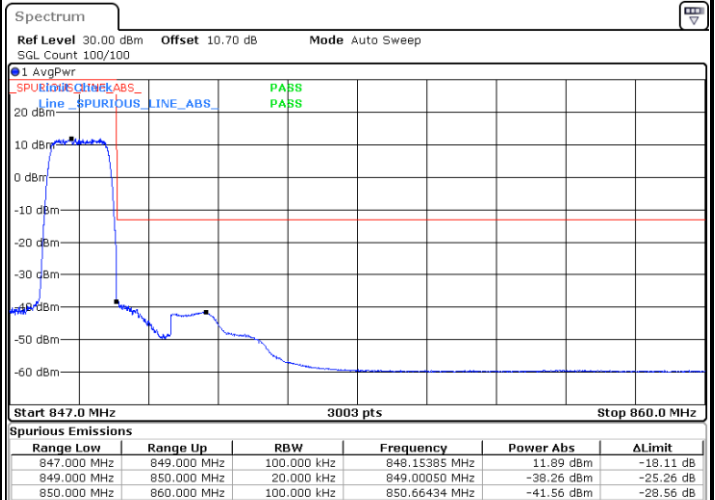
Date: 16.JAN.2022 03:20:23

Lowest Band Edge / Full RB



Date: 16.JAN.2022 02:57:56

Highest Band Edge / Full RB

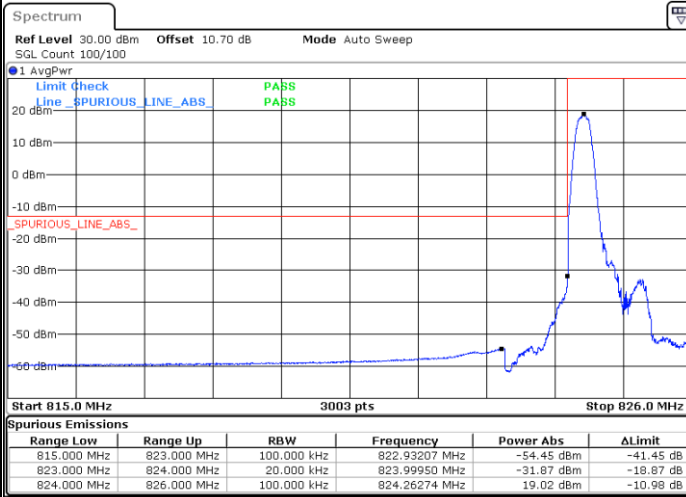


Date: 16.JAN.2022 03:02:21



LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



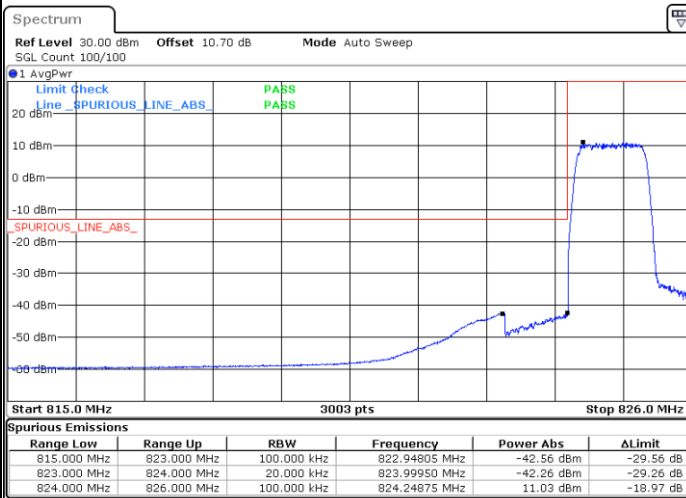
Date: 16.JAN.2022 02:57:16

Highest Band Edge / 1 RB



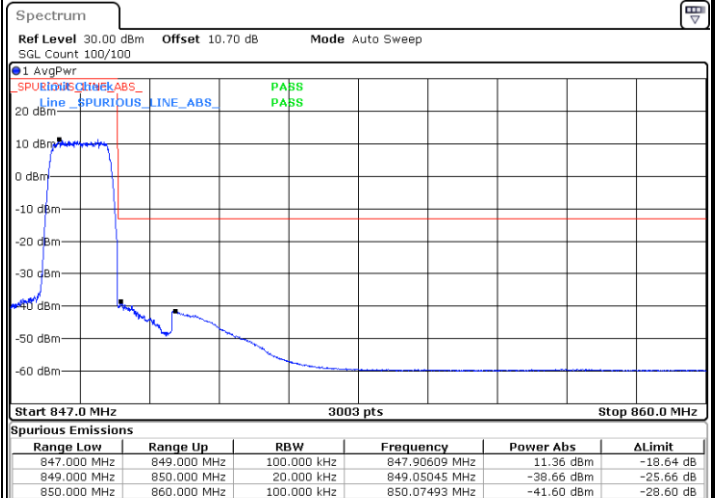
Date: 16.JAN.2022 03:21:06

Lowest Band Edge / Full RB



Date: 16.JAN.2022 02:58:36

Highest Band Edge / Full RB

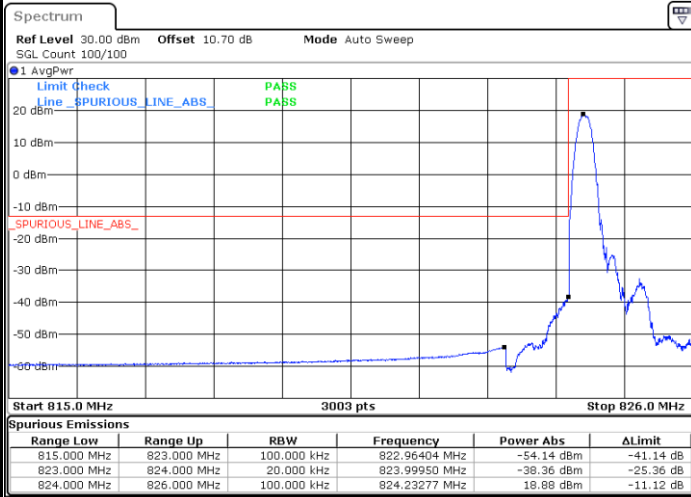


Date: 16.JAN.2022 03:19:39



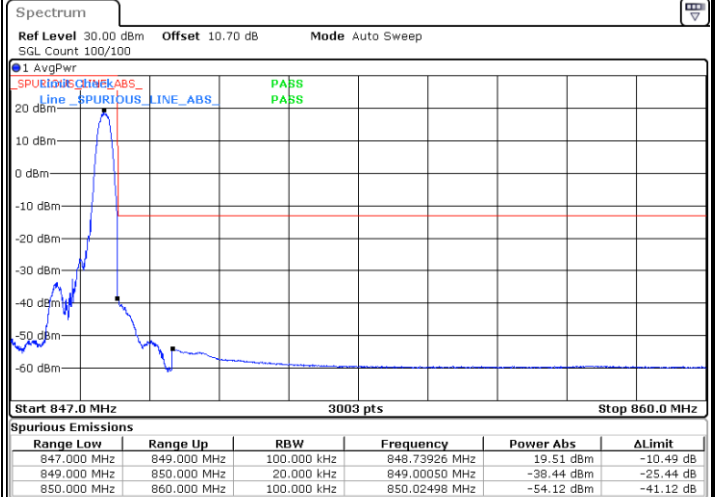
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



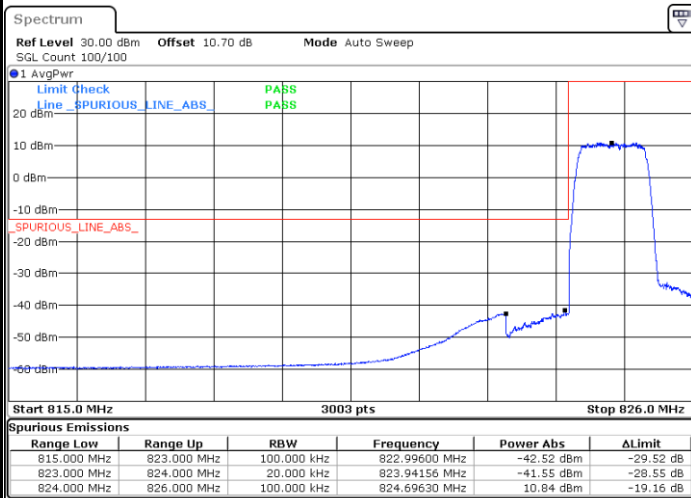
Date: 16.JAN.2022 03:22:37

Highest Band Edge / 1 RB



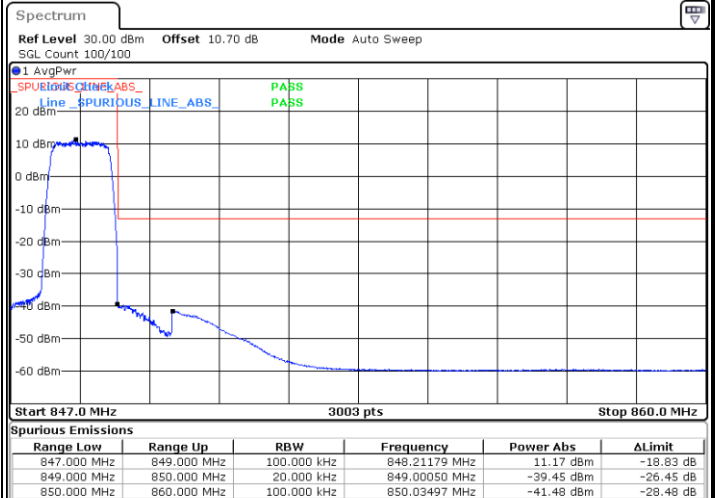
Date: 16.JAN.2022 03:25:24

Lowest Band Edge / Full RB



Date: 16.JAN.2022 03:23:17

Highest Band Edge / Full RB

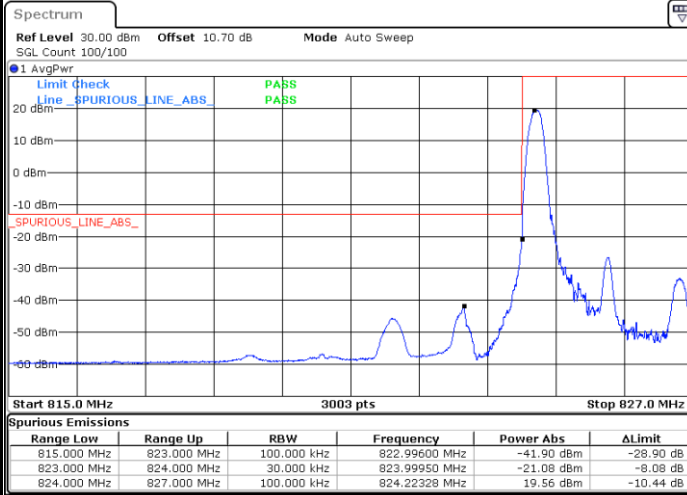


Date: 16.JAN.2022 03:24:41

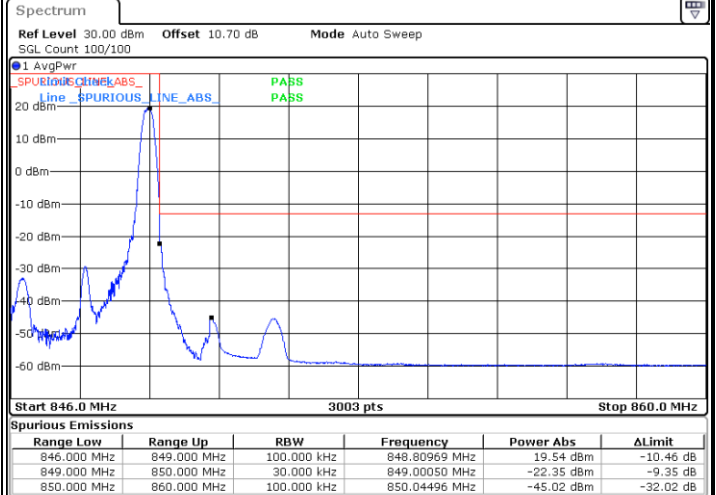


LTE Band 5 / 3MHz / QPSK

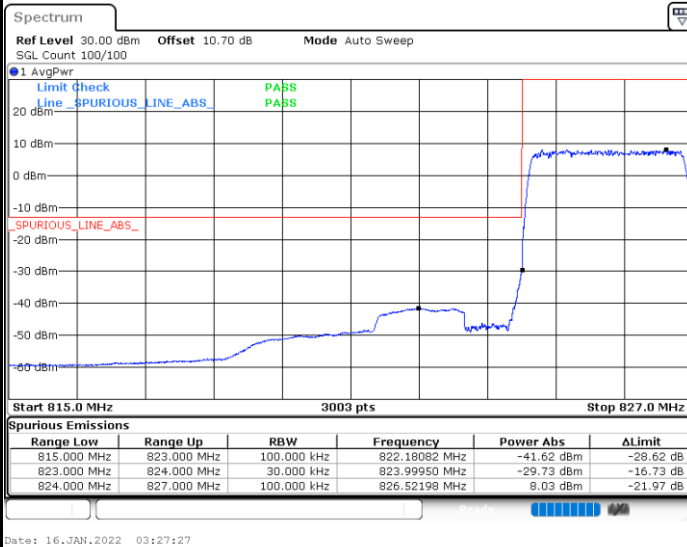
Lowest Band Edge / 1RB



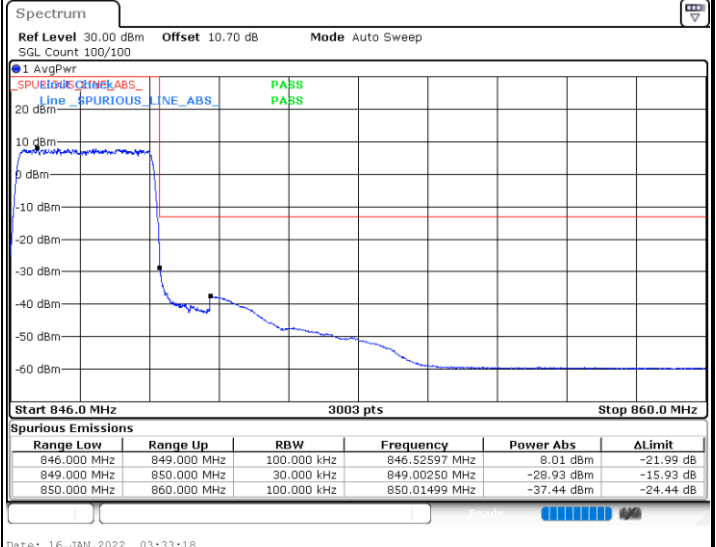
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



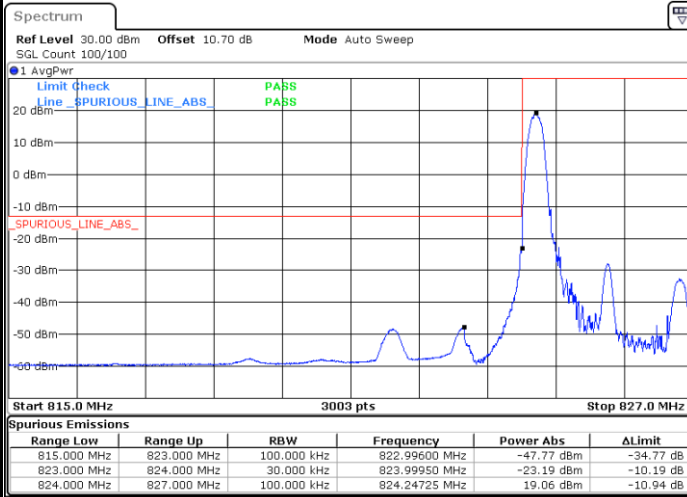
Highest Band Edge / Full RB



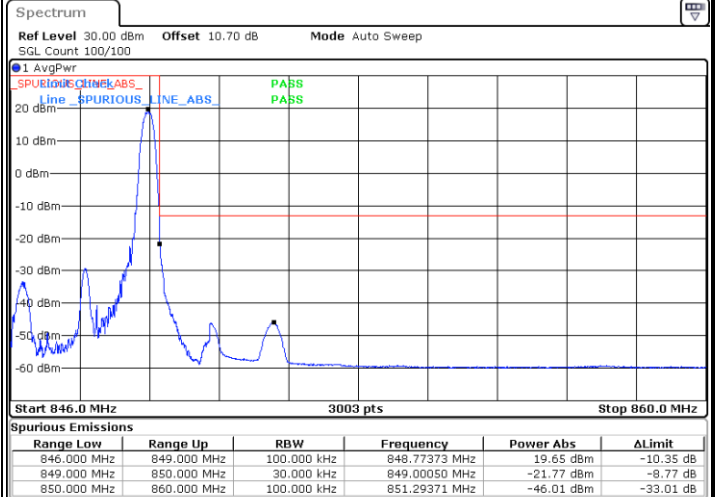


LTE Band 5 / 3MHz / 16QAM

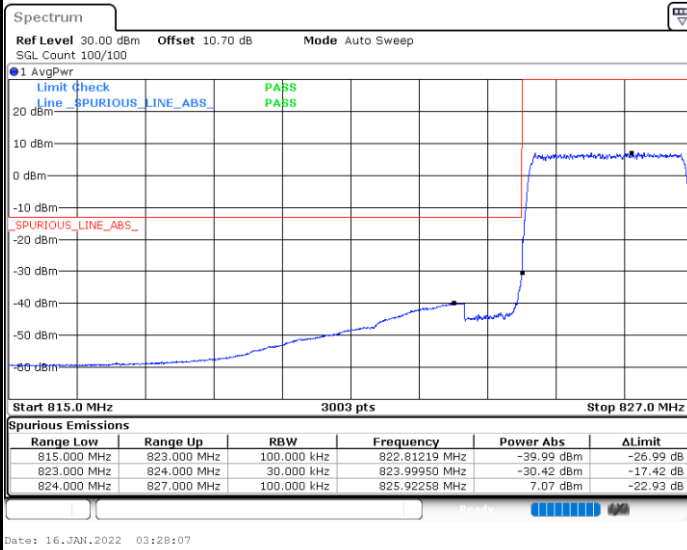
Lowest Band Edge / 1 RB



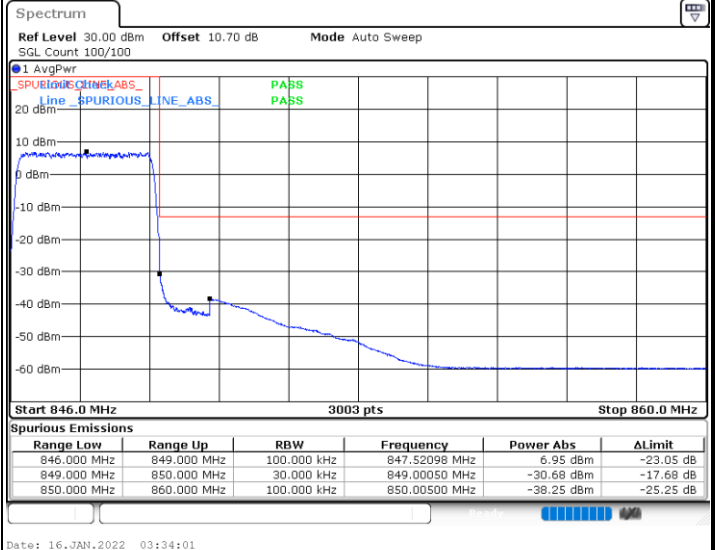
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



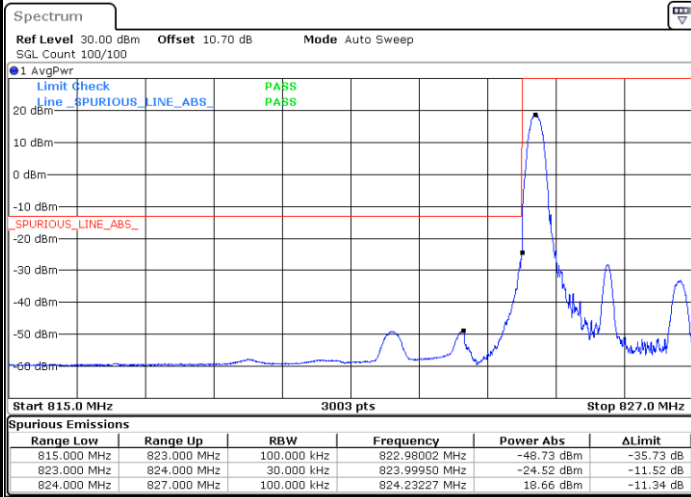
Highest Band Edge / Full RB





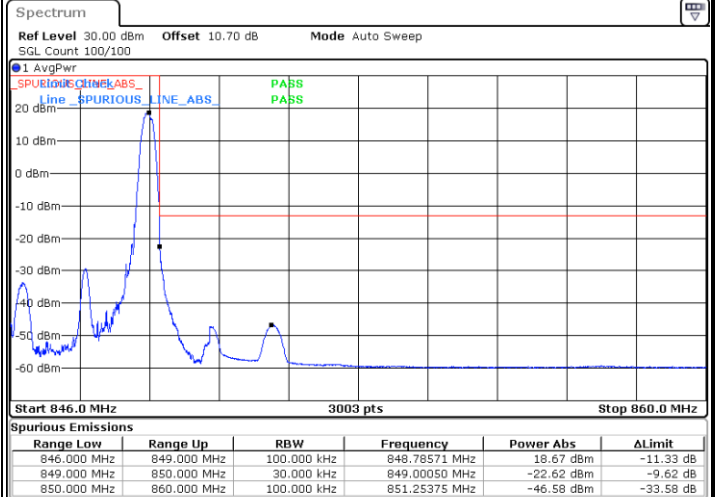
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



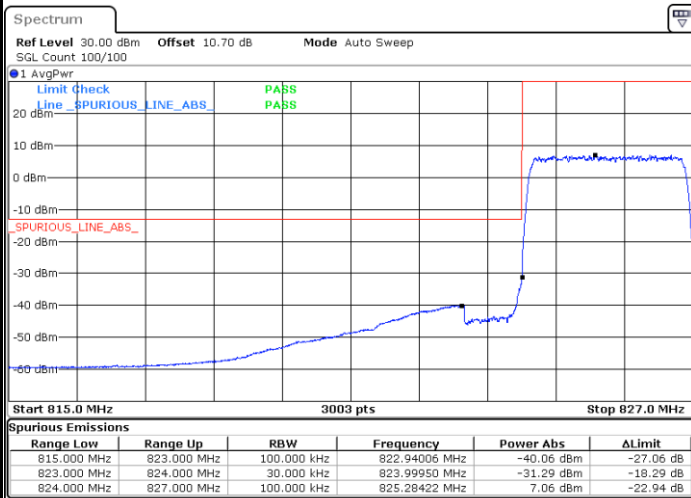
Date: 16.JAN.2022 03:35:32

Highest Band Edge / 1 RB



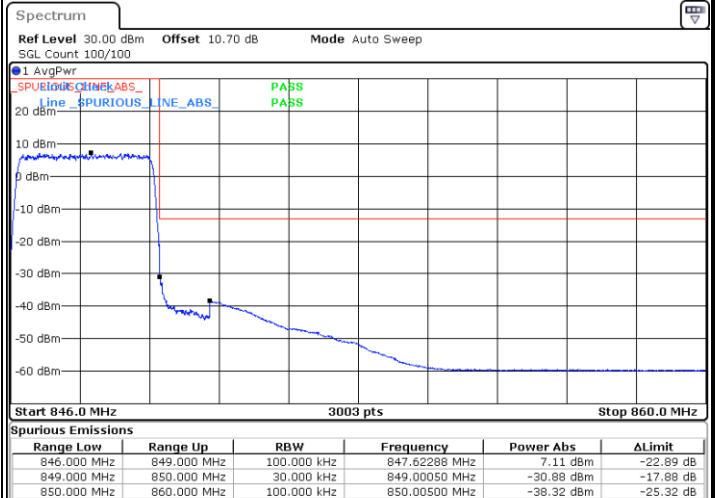
Date: 16.JAN.2022 03:37:36

Lowest Band Edge / Full RB



Date: 16.JAN.2022 03:36:12

Highest Band Edge / Full RB

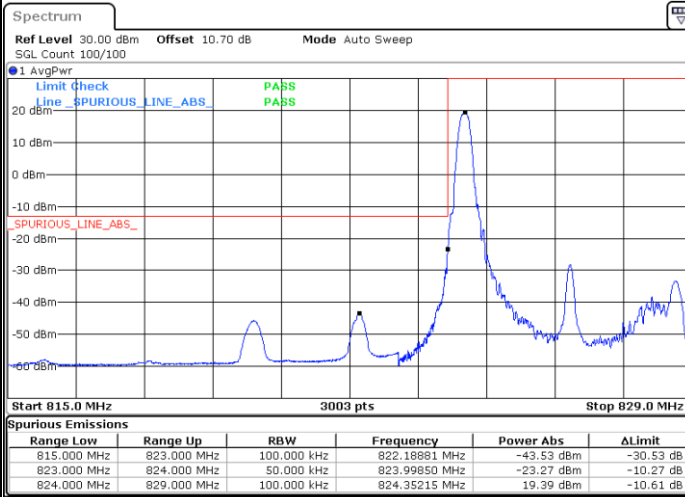


Date: 16.JAN.2022 03:38:19



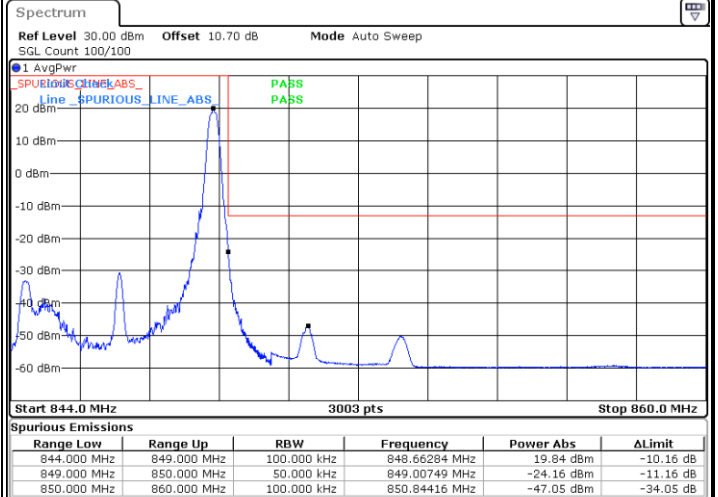
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



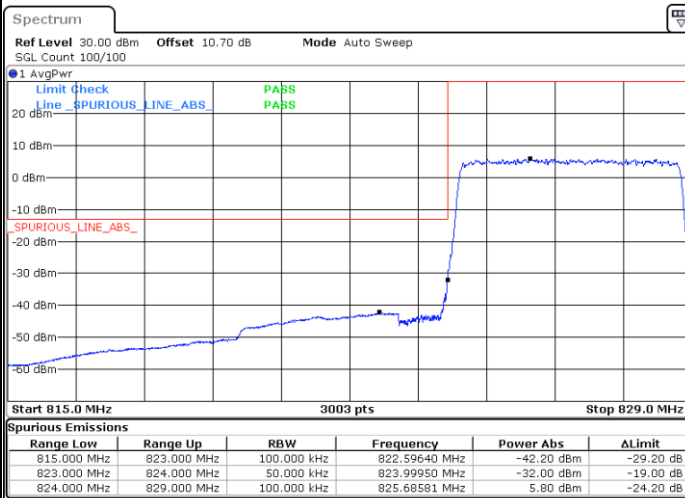
Date: 16.JAN.2022 03:39:00

Highest Band Edge / 1 RB



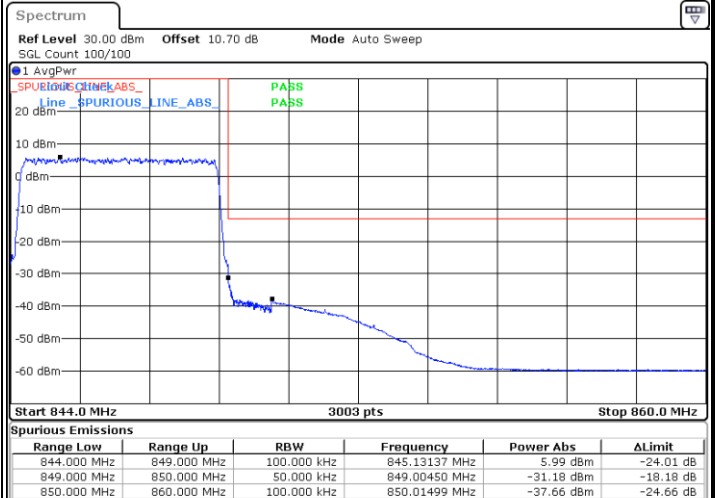
Date: 16.JAN.2022 03:44:48

Lowest Band Edge / Full RB



Date: 16.JAN.2022 03:40:21

Highest Band Edge / Full RB



Date: 16.JAN.2022 03:46:15