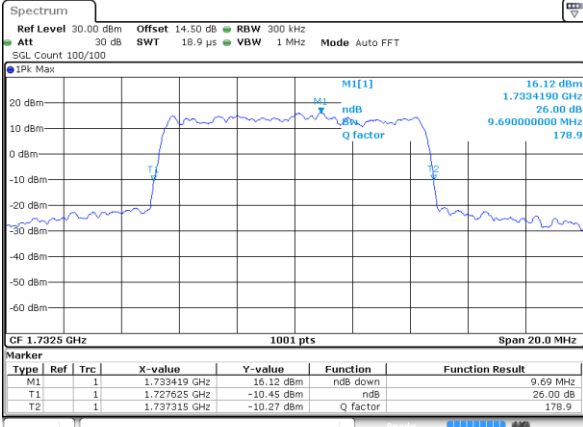




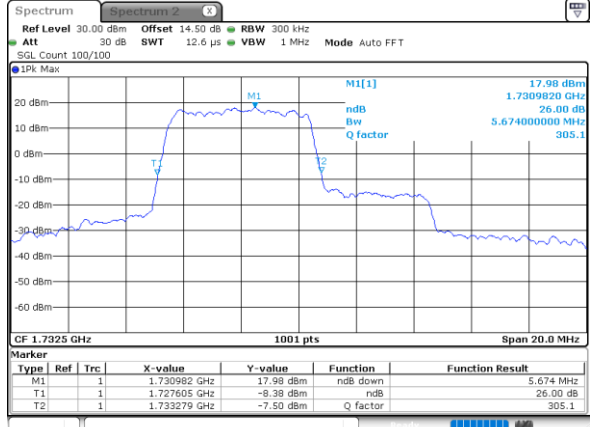
LTE Band 4

Middle Channel / 10MHz / QPSK



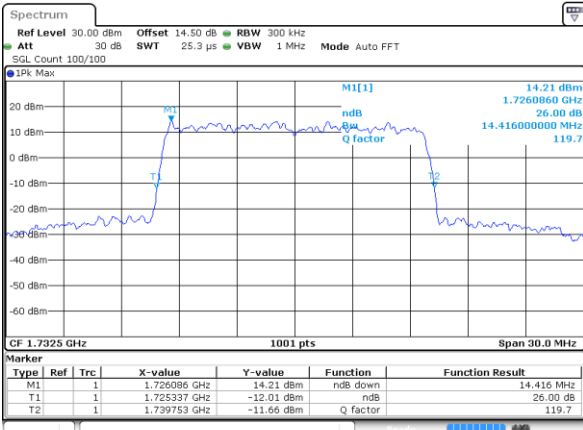
Date: 17 AUG 2023 11:59:39

Middle Channel / 10MHz / 16QAM



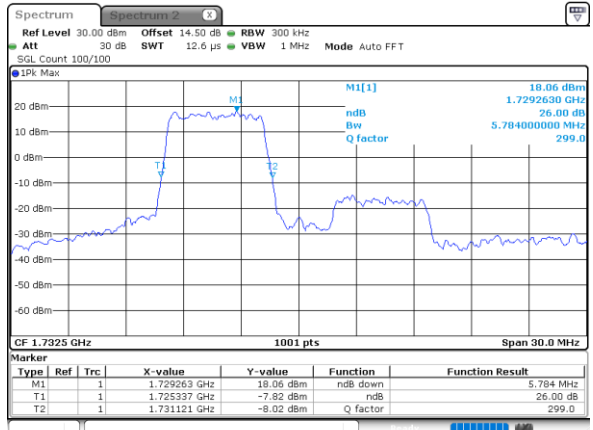
Date: 29 AUG 2023 16:28:42

Middle Channel / 15MHz / QPSK



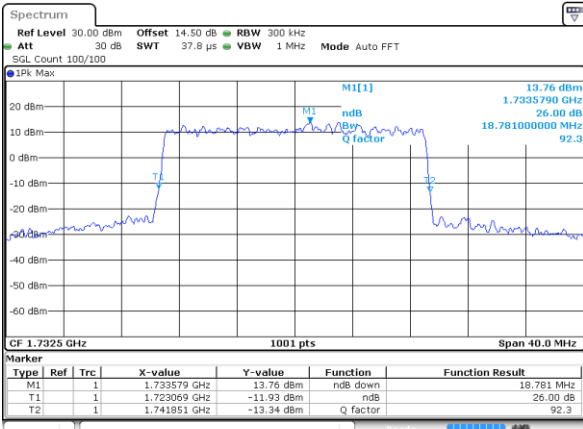
Date: 17 AUG 2023 13:19:25

Middle Channel / 15MHz / 16QAM



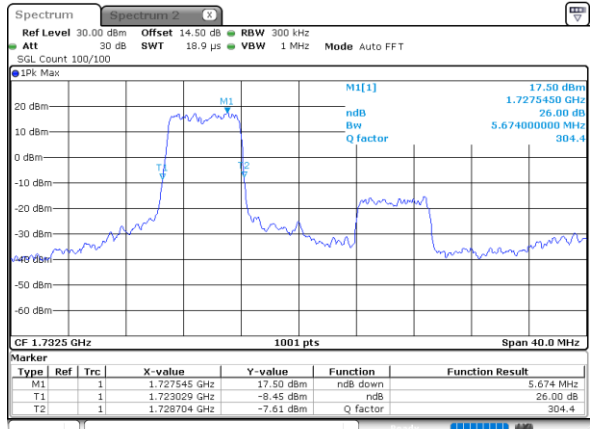
Date: 29 AUG 2023 16:29:57

Middle Channel / 20MHz / QPSK



Date: 17 AUG 2023 14:57:15

Middle Channel / 20MHz / 16QAM



Date: 29 AUG 2023 16:30:43



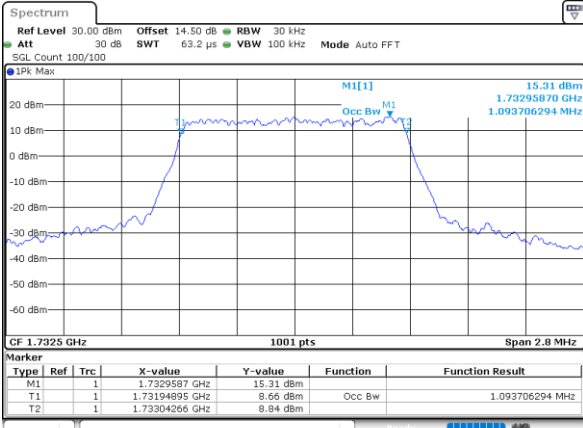
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.72	2.72	4.49	4.46	8.95	5.05	13.40	5.03	17.82	5.00



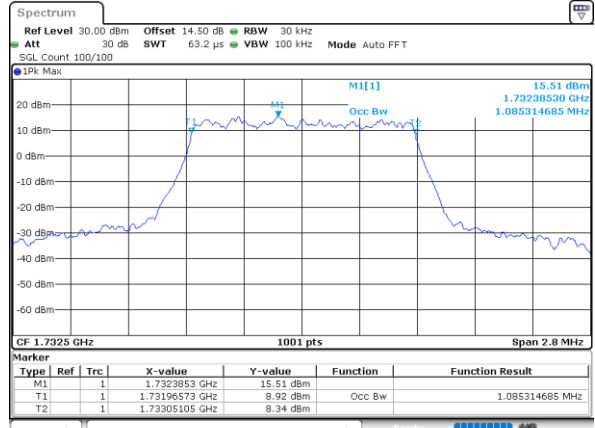
LTE Band 4

Middle Channel / 1.4MHz / QPSK



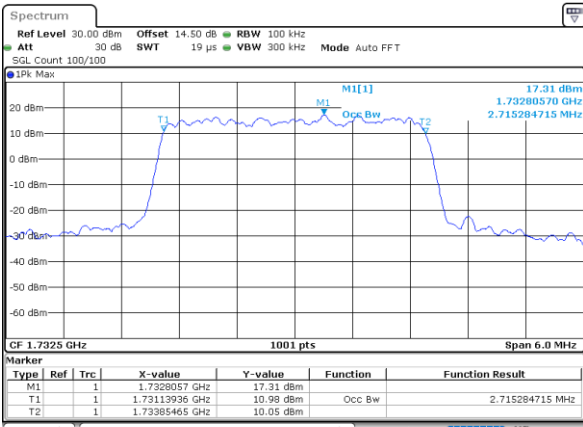
Date: 16.AUG.2023 18:52:27

Middle Channel / 1.4MHz / 16QAM



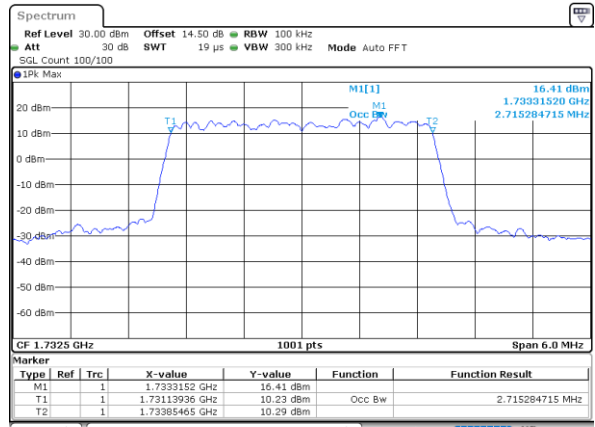
Date: 16.AUG.2023 18:53:13

Middle Channel / 3MHz / QPSK



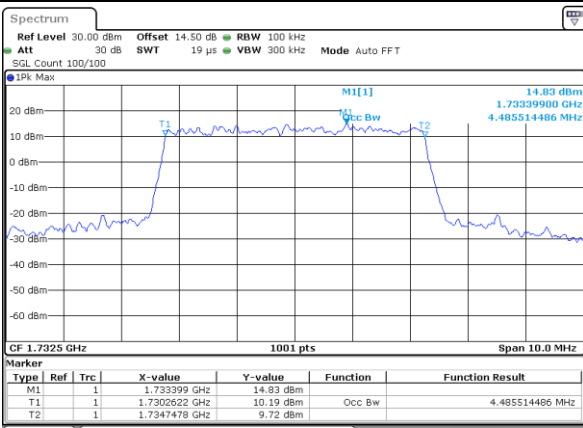
Date: 16.AUG.2023 19:15:46

Middle Channel / 3MHz / 16QAM



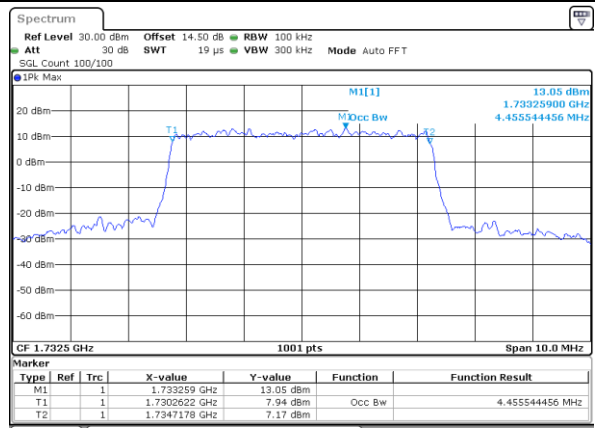
Date: 16.AUG.2023 19:16:36

Middle Channel / 5MHz / QPSK



Date: 17.AUG.2023 18:11:33

Middle Channel / 5MHz / 16QAM

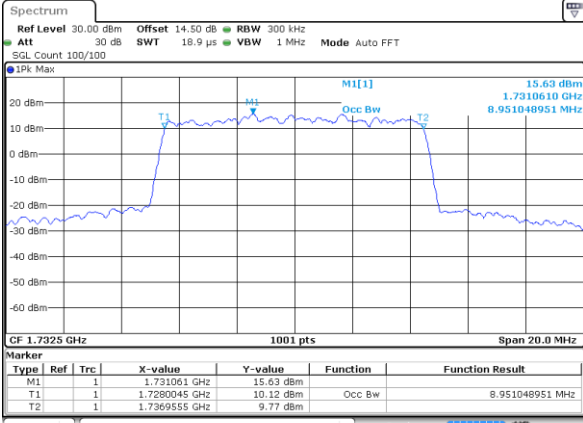


Date: 17.AUG.2023 18:12:16



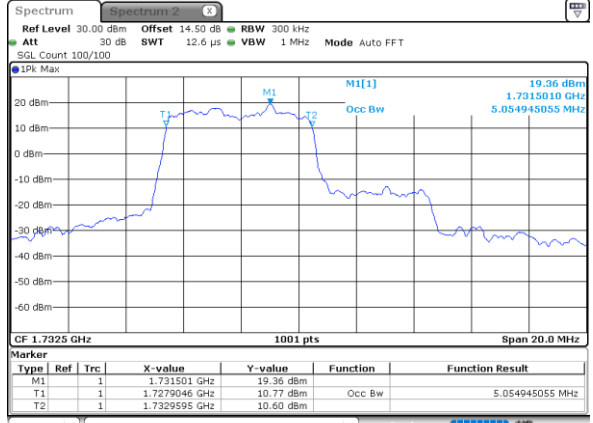
LTE Band 4

Middle Channel / 10MHz / QPSK



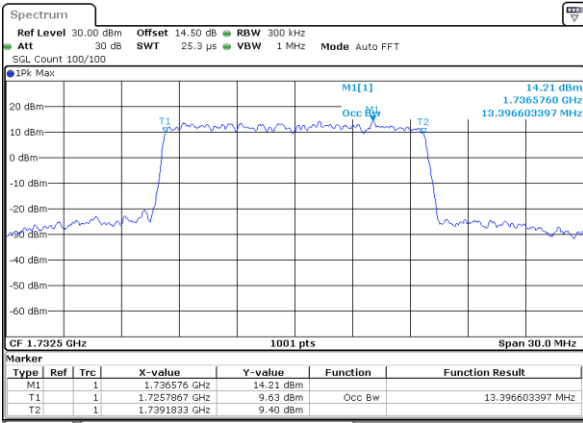
Date: 17.AUG.2023 13:25:54

Middle Channel / 10MHz / 16QAM



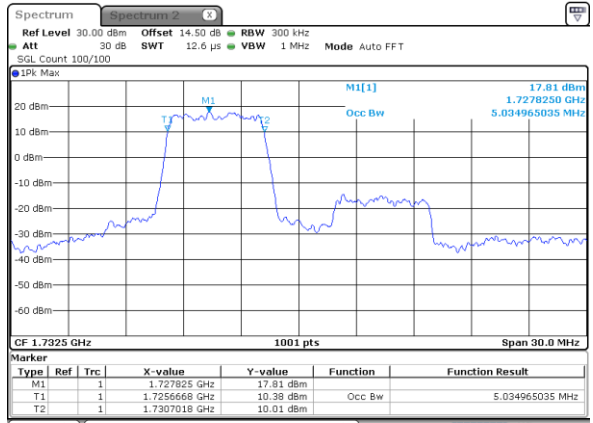
Date: 29.AUG.2023 16:28:32

Middle Channel / 15MHz / QPSK



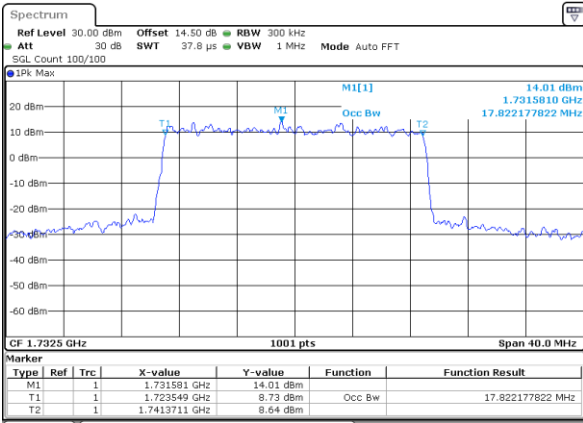
Date: 17.AUG.2023 13:19:11

Middle Channel / 15MHz / 16QAM



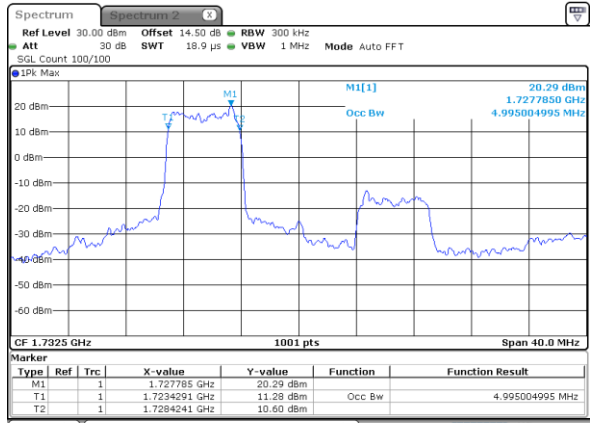
Date: 29.AUG.2023 16:29:46

Middle Channel / 20MHz / QPSK



Date: 17.AUG.2023 14:57:04

Middle Channel / 20MHz / 16QAM



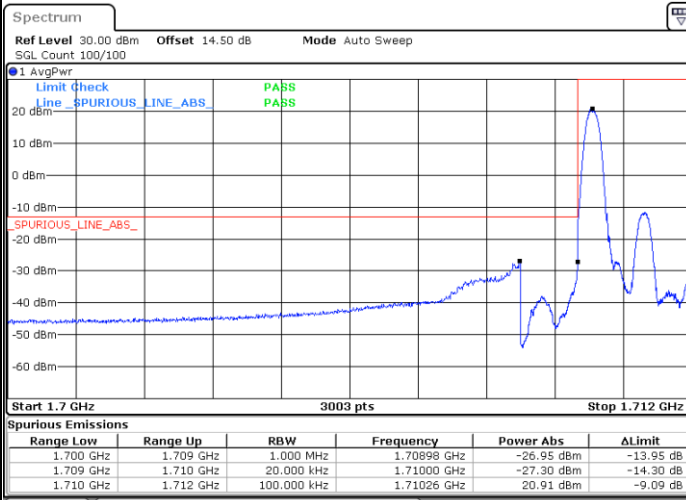
Date: 29.AUG.2023 16:30:31



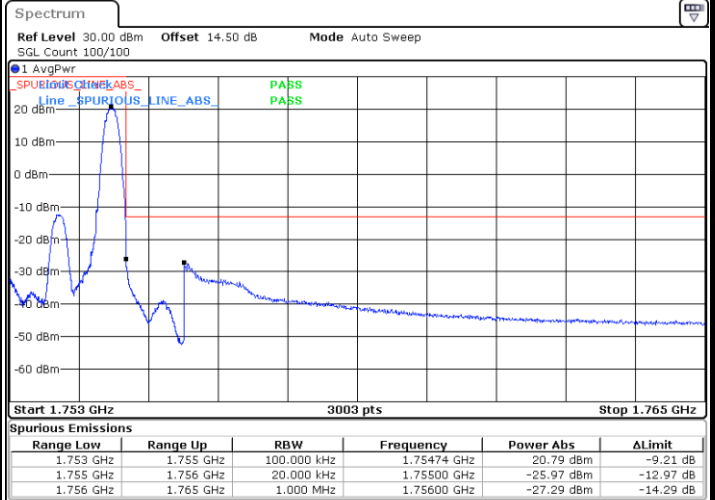
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

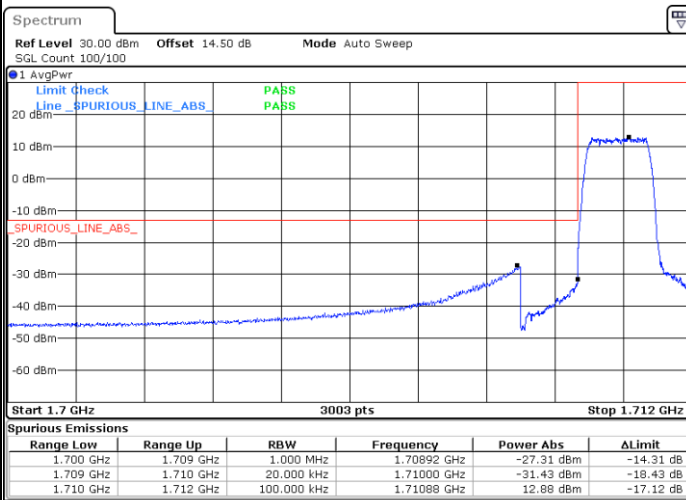
Lowest Band Edge / 1RB



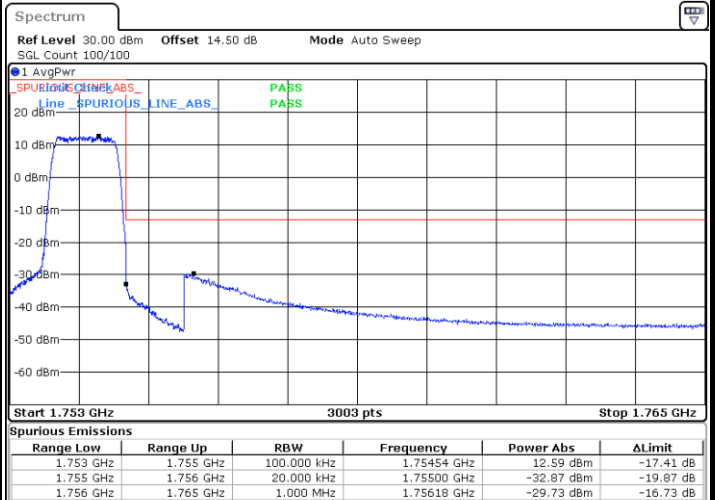
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



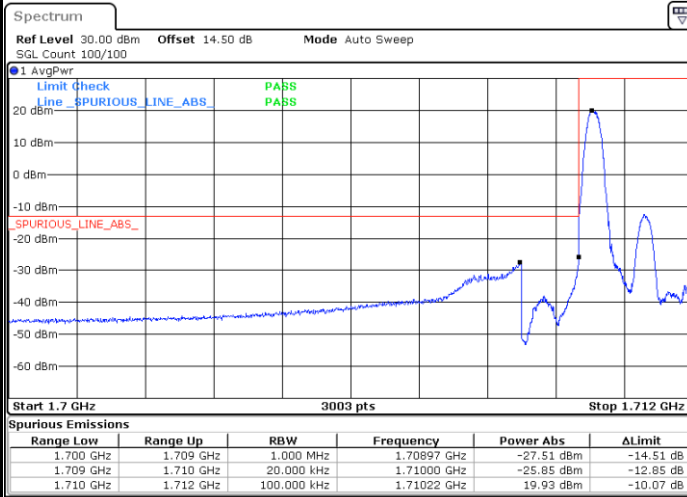
Highest Band Edge / Full RB





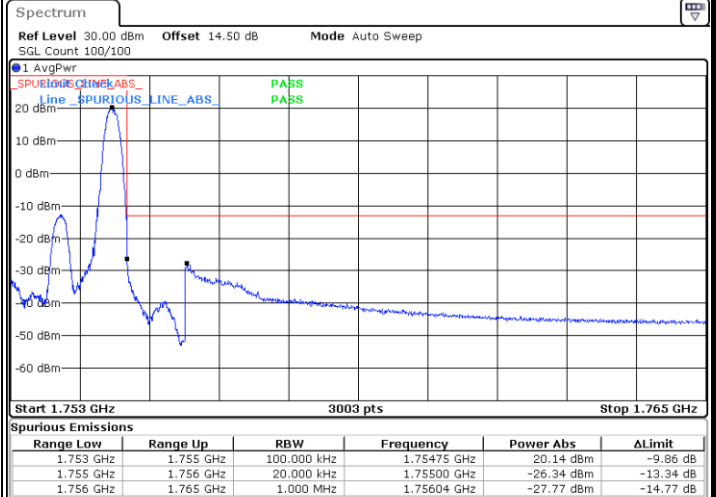
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



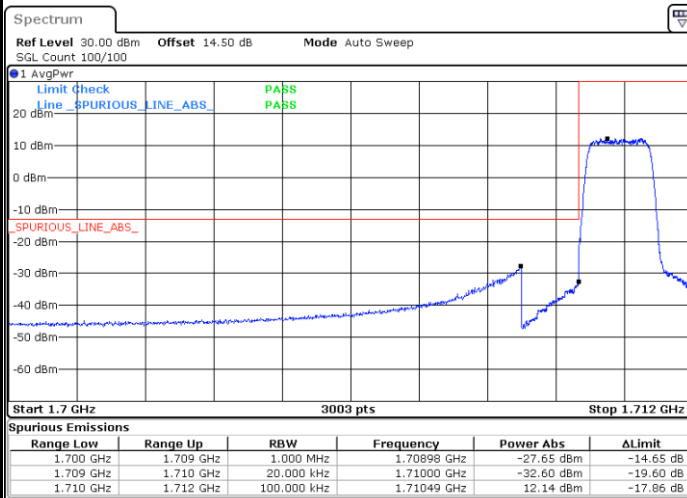
Date: 16.AUG.2023 18:47:32

Highest Band Edge / 1 RB



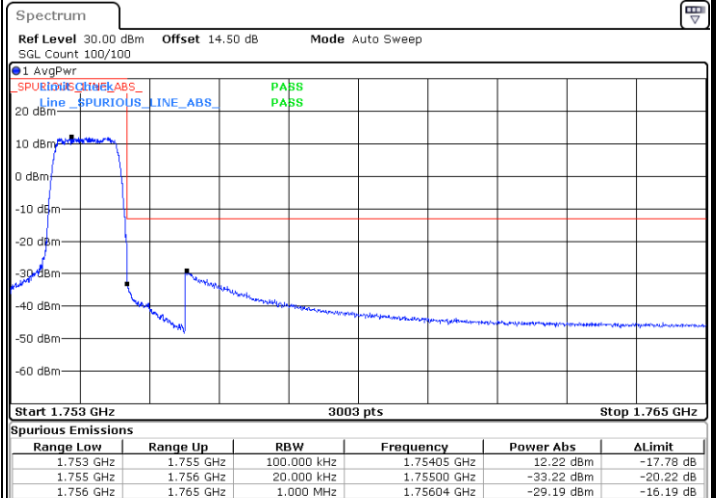
Date: 16.AUG.2023 18:55:12

Lowest Band Edge / Full RB



Date: 16.AUG.2023 18:49:19

Highest Band Edge / Full RB

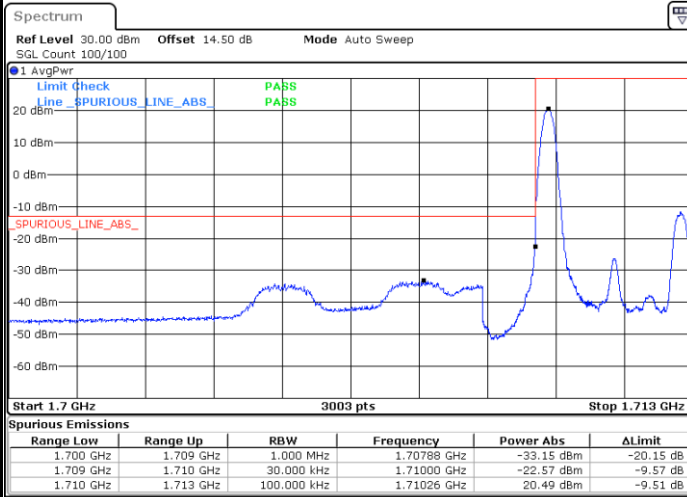


Date: 16.AUG.2023 18:56:57



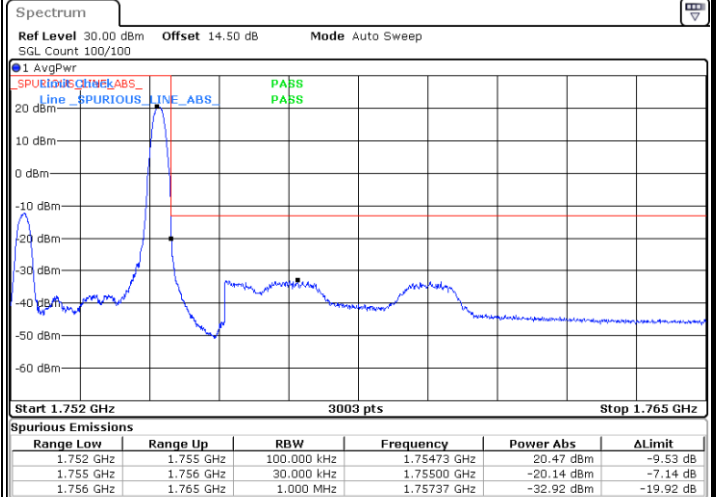
LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB



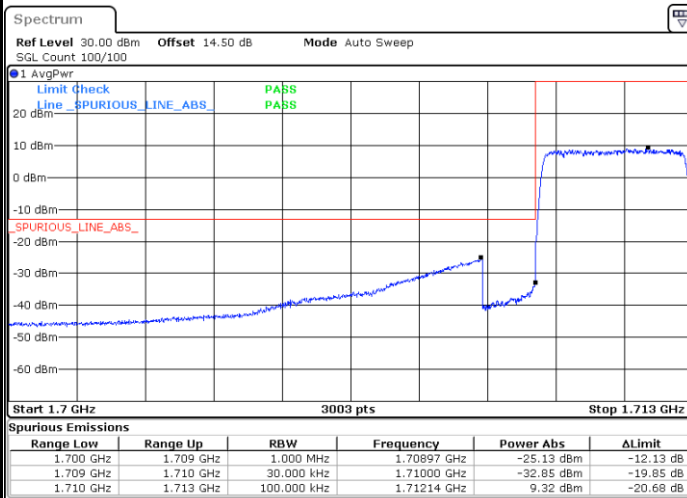
Date: 16.AUG.2023 19:09:39

Highest Band Edge / 1RB



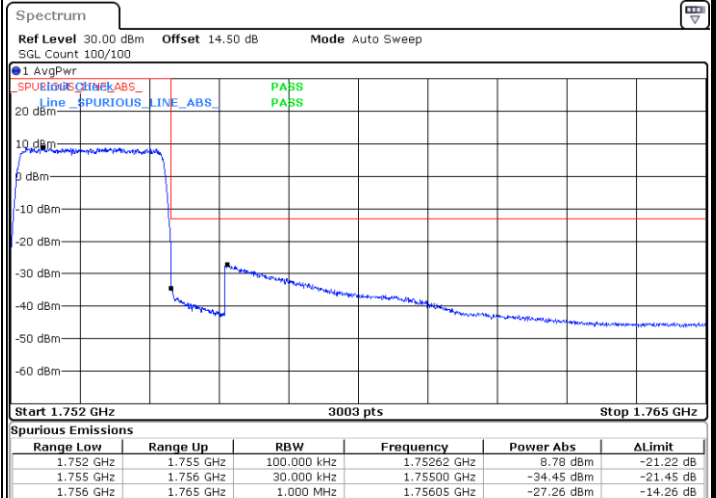
Date: 16.AUG.2023 19:17:45

Lowest Band Edge / Full RB



Date: 16.AUG.2023 19:11:32

Highest Band Edge / Full RB

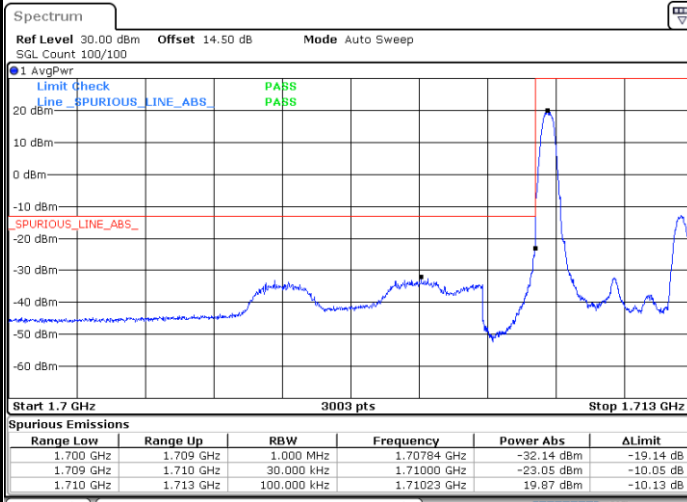


Date: 16.AUG.2023 19:19:38



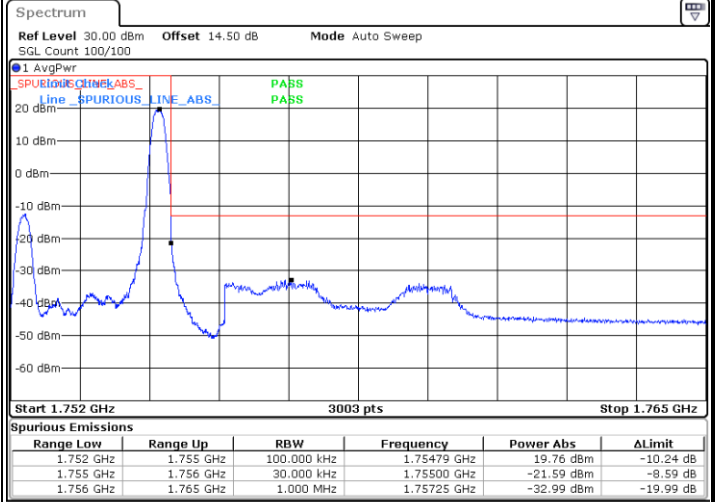
LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



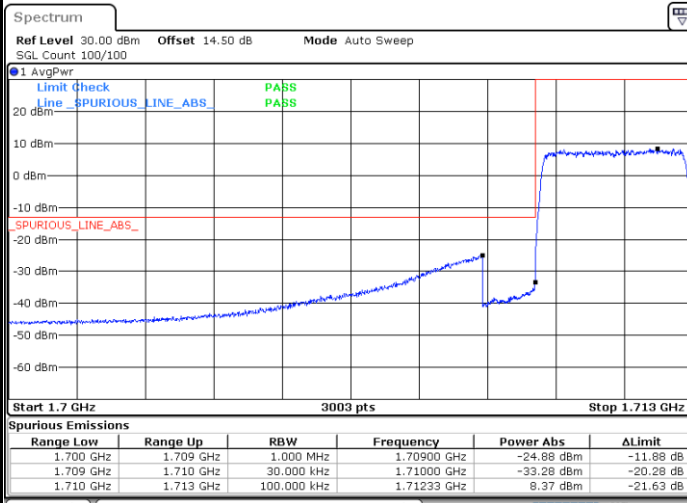
Date: 16.AUG.2023 19:10:36

Highest Band Edge / 1 RB



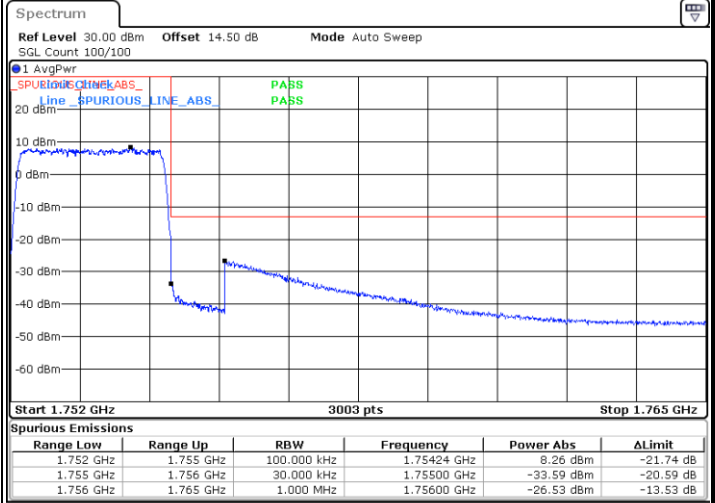
Date: 16.AUG.2023 19:18:41

Lowest Band Edge / Full RB



Date: 16.AUG.2023 19:12:28

Highest Band Edge / Full RB

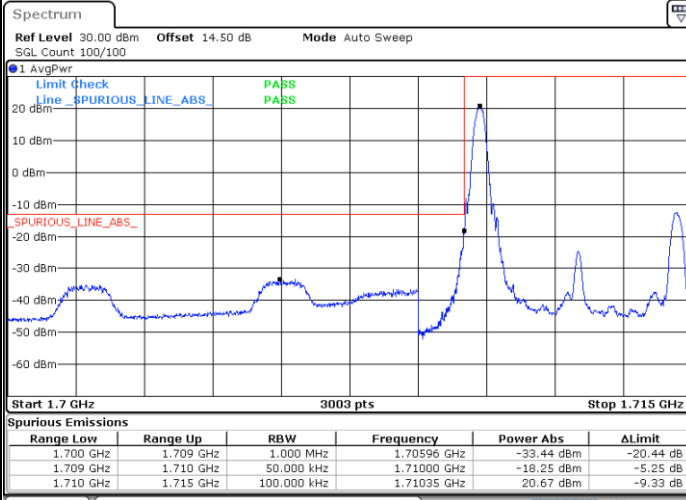


Date: 16.AUG.2023 19:20:34



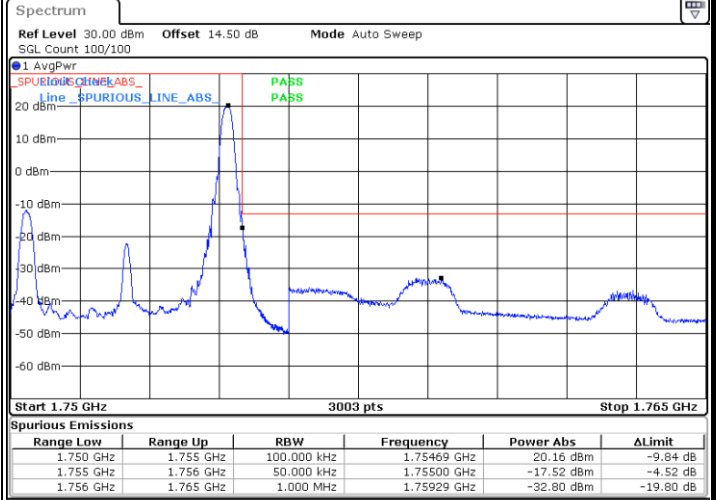
LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1RB



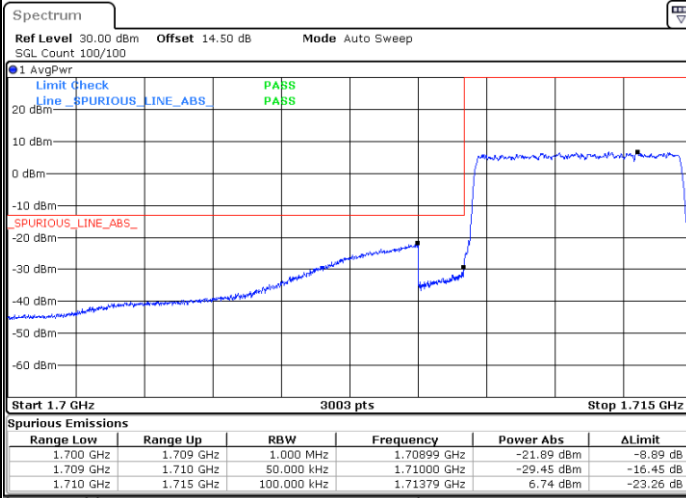
Date: 17.AUG.2023 18:06:09

Highest Band Edge / 1RB



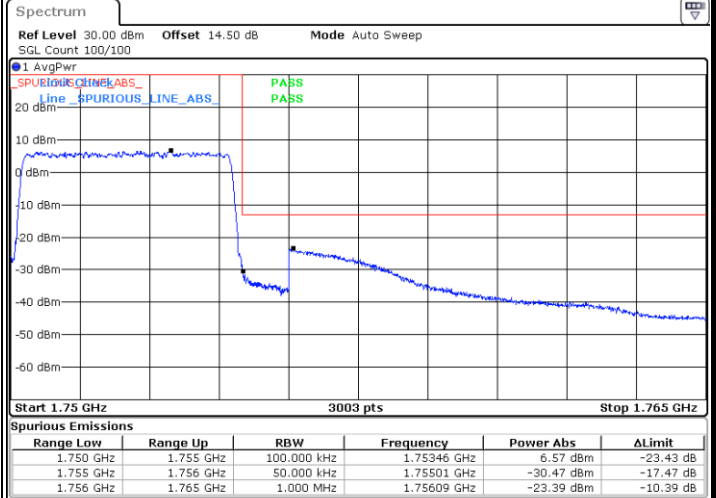
Date: 17.AUG.2023 18:13:18

Lowest Band Edge / Full RB



Date: 17.AUG.2023 18:07:47

Highest Band Edge / Full RB

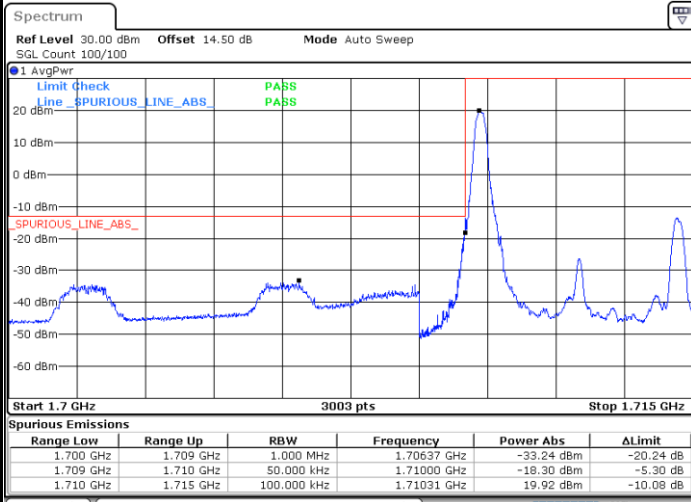


Date: 17.AUG.2023 18:22:23



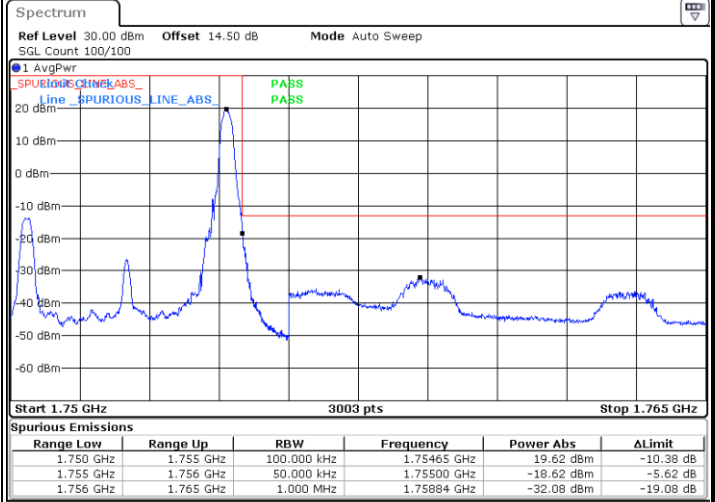
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



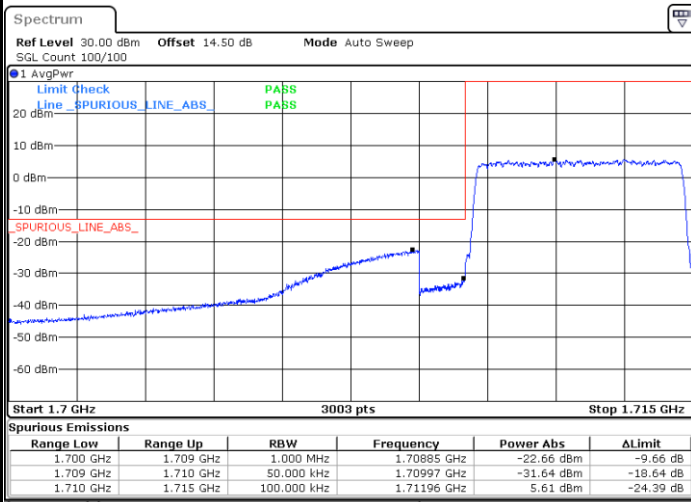
Date: 17.AUG.2023 18:06:58

Highest Band Edge / 1 RB



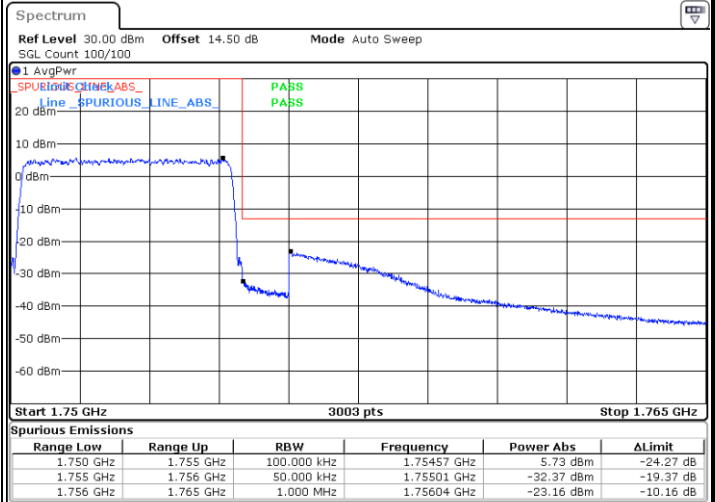
Date: 17.AUG.2023 18:19:35

Lowest Band Edge / Full RB



Date: 17.AUG.2023 18:08:36

Highest Band Edge / Full RB

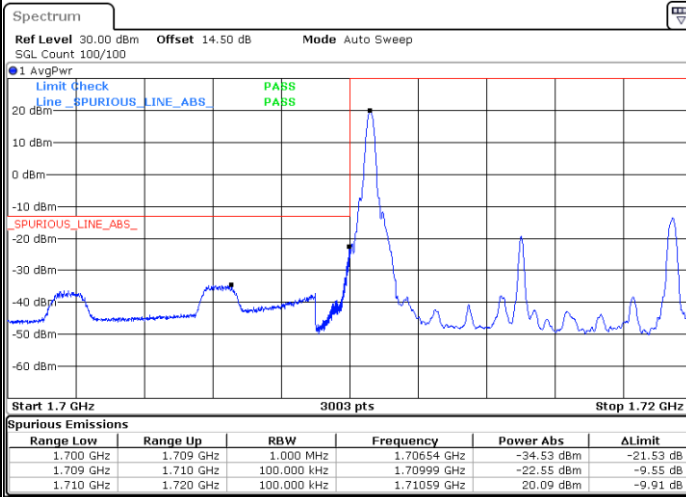


Date: 17.AUG.2023 18:21:32



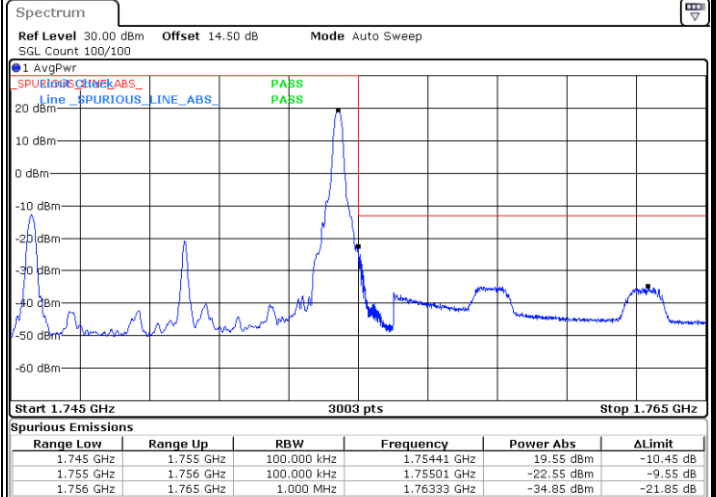
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1RB



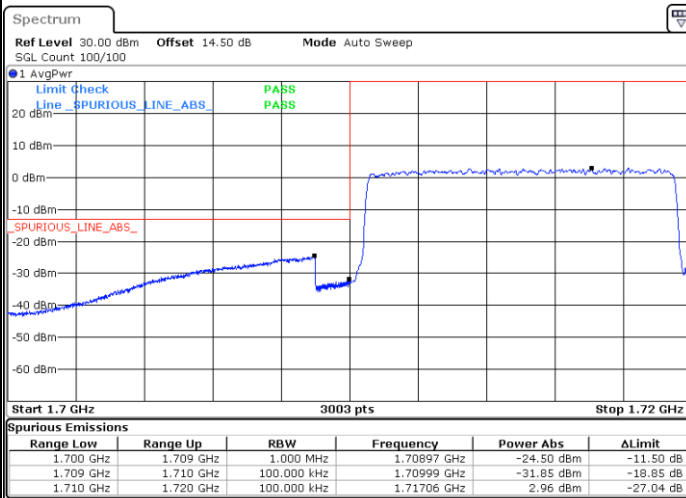
Date: 17.AUG.2023 11:40:10

Highest Band Edge / 1RB



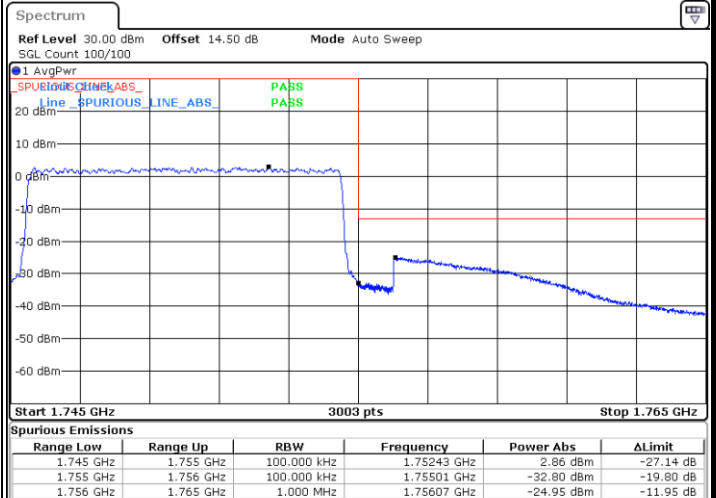
Date: 17.AUG.2023 12:03:35

Lowest Band Edge / Full RB



Date: 17.AUG.2023 11:47:27

Highest Band Edge / Full RB



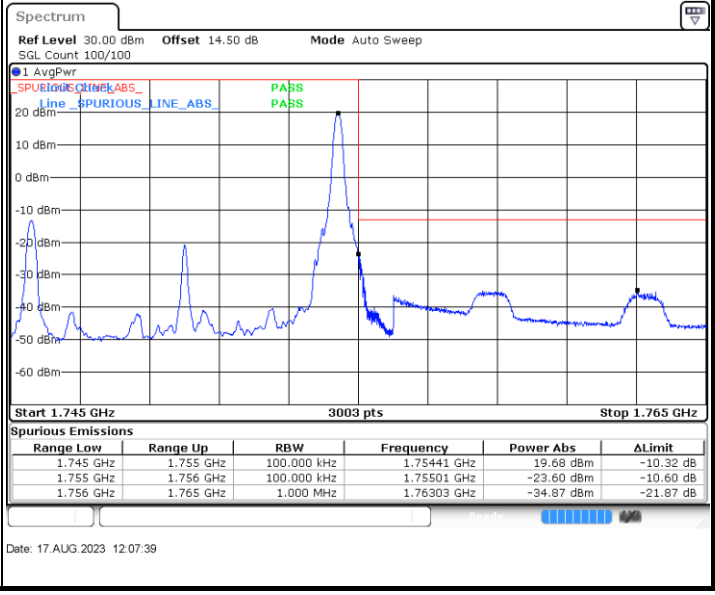
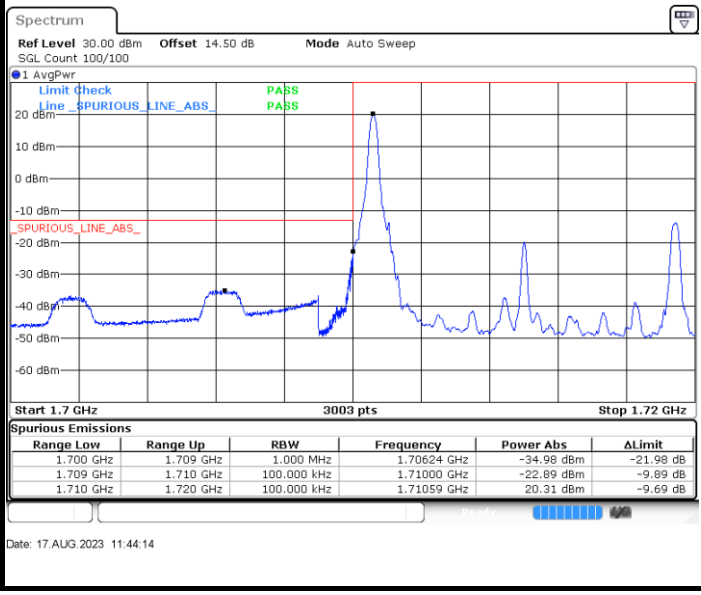
Date: 17.AUG.2023 12:08:55



LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

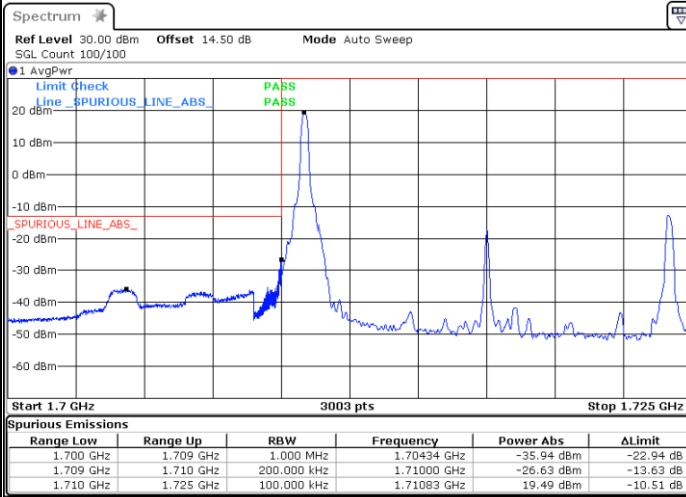
Highest Band Edge / 1 RB





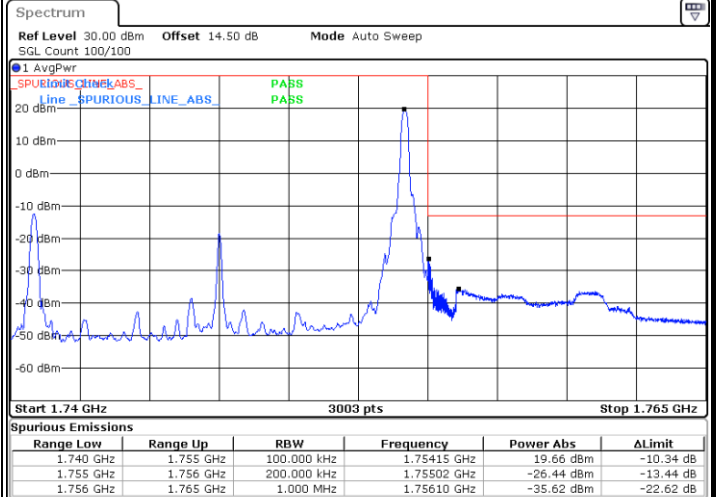
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1RB



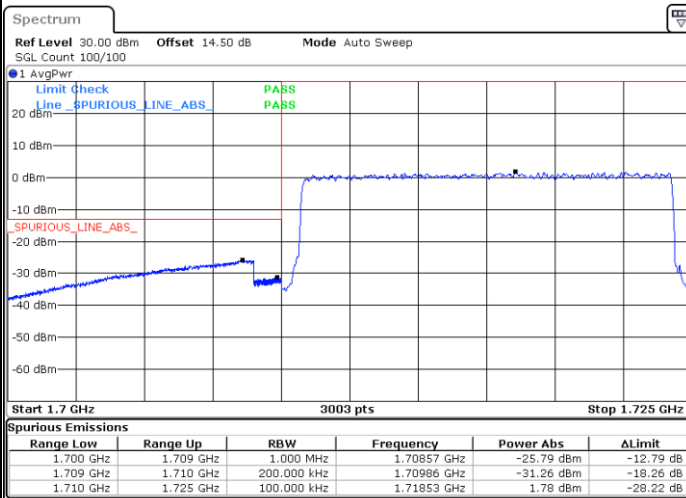
Date: 17.AUG.2023 13:31:04

Highest Band Edge / 1RB



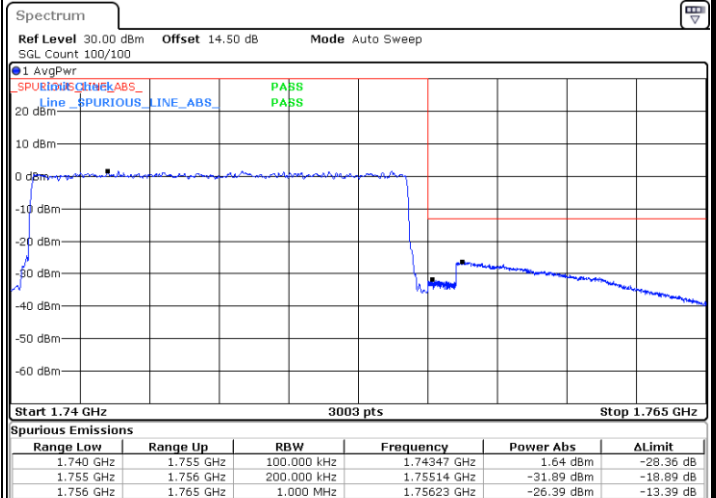
Date: 17.AUG.2023 14:47:18

Lowest Band Edge / Full RB



Date: 17.AUG.2023 13:10:39

Highest Band Edge / Full RB



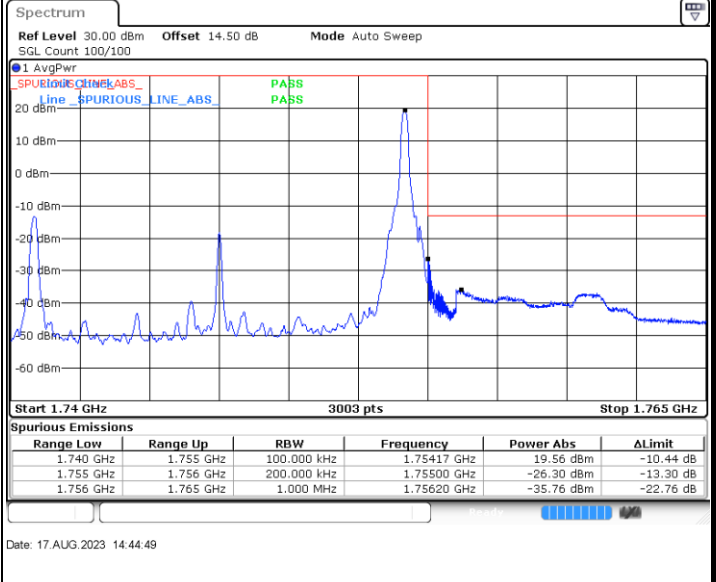
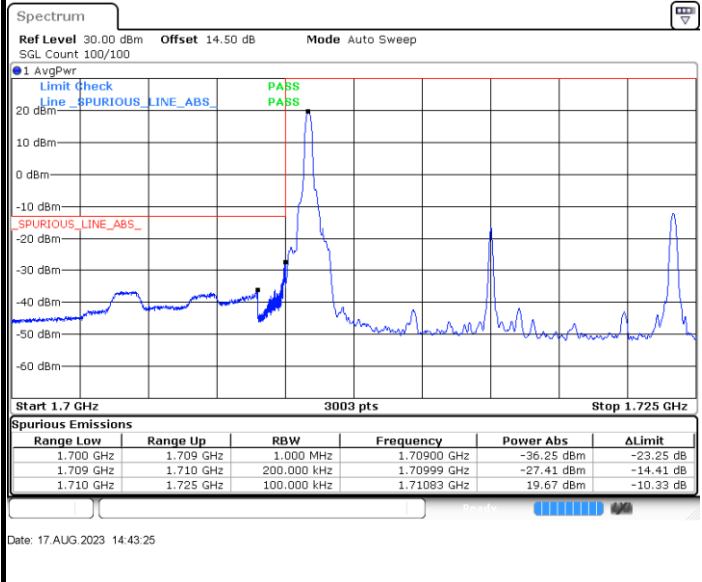
Date: 17.AUG.2023 14:20:21



LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

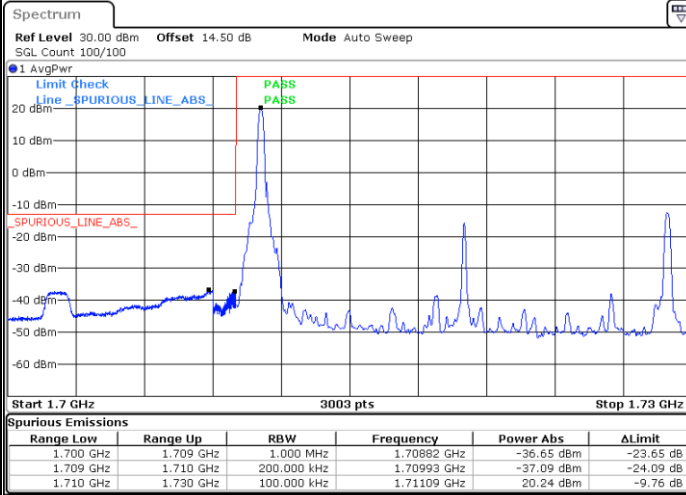
Highest Band Edge / 1 RB





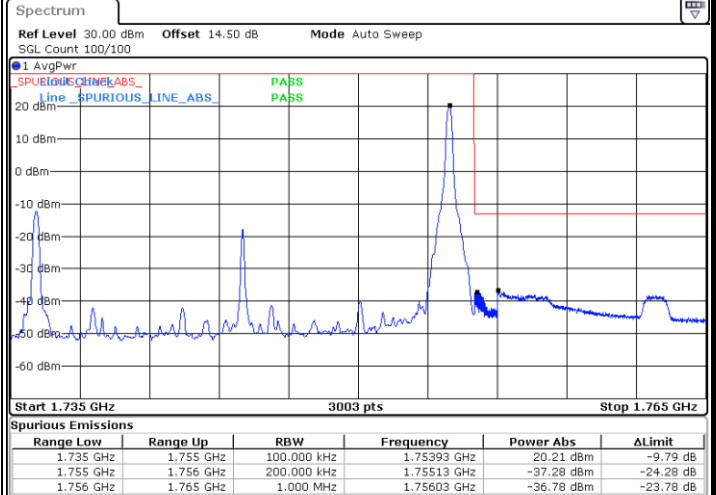
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1RB



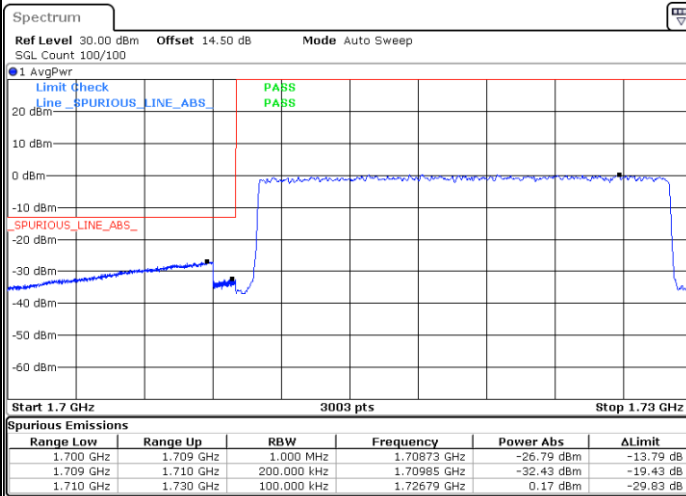
Date: 17.AUG.2023 14:40:40

Highest Band Edge / 1RB



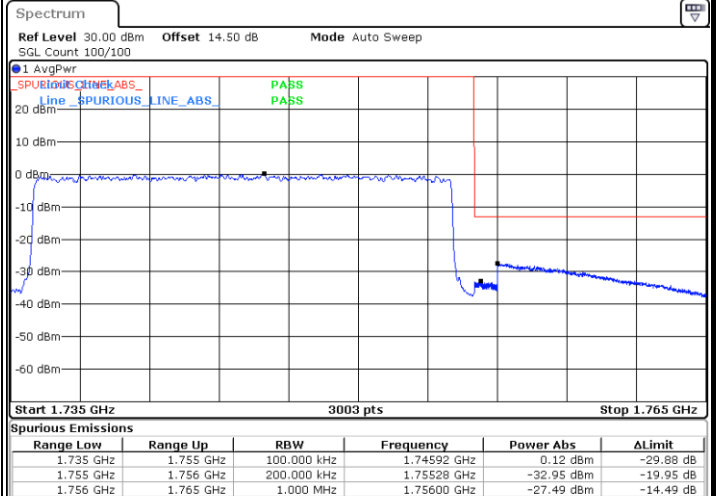
Date: 17.AUG.2023 14:55:19

Lowest Band Edge / Full RB



Date: 17.AUG.2023 14:48:23

Highest Band Edge / Full RB



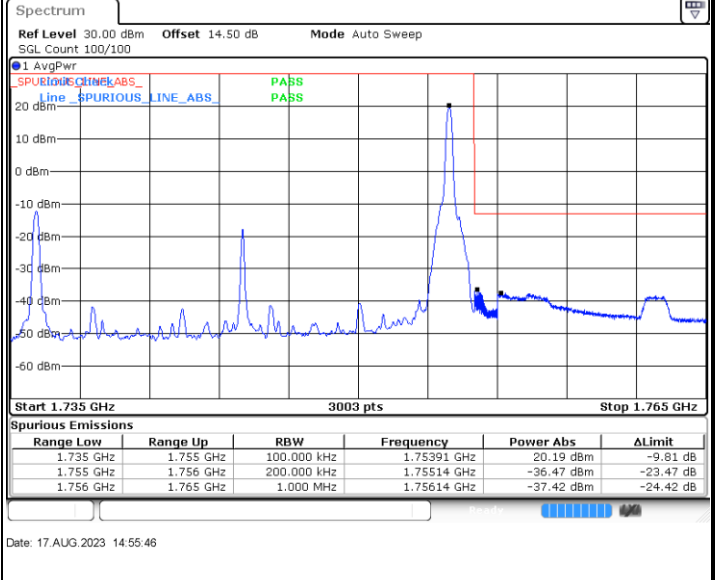
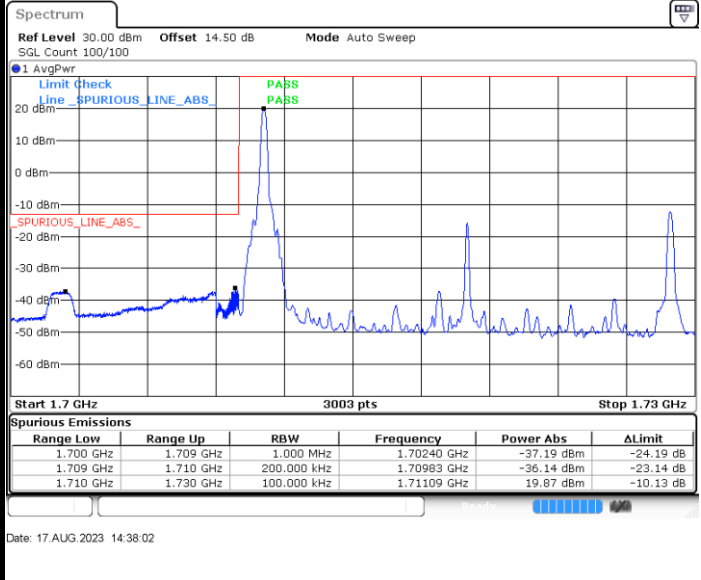
Date: 17.AUG.2023 14:53:17



LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



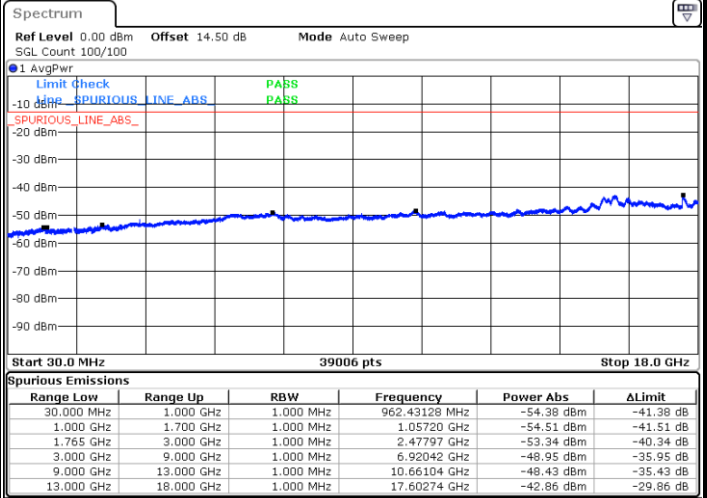
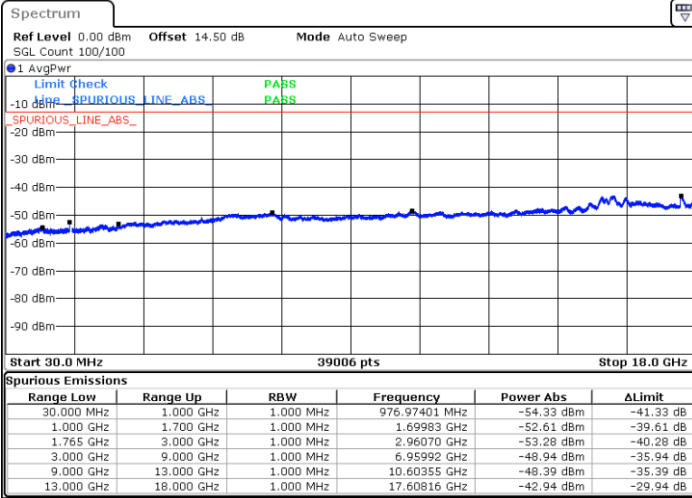


Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

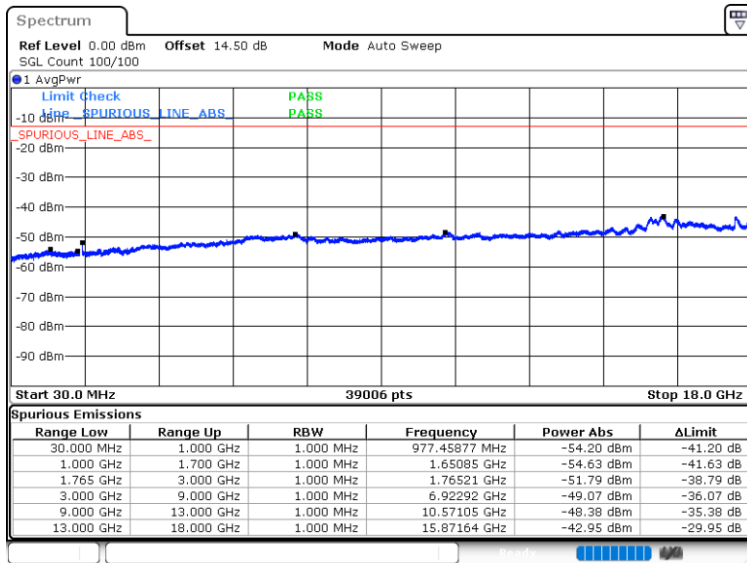
Middle Channel / QPSK



Date: 16.AUG.2023 18:50:36

Date: 16.AUG.2023 18:51:53

Highest Channel / QPSK



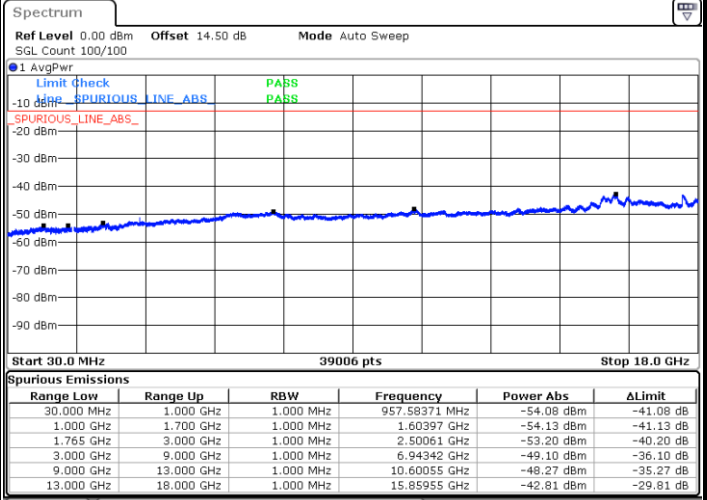
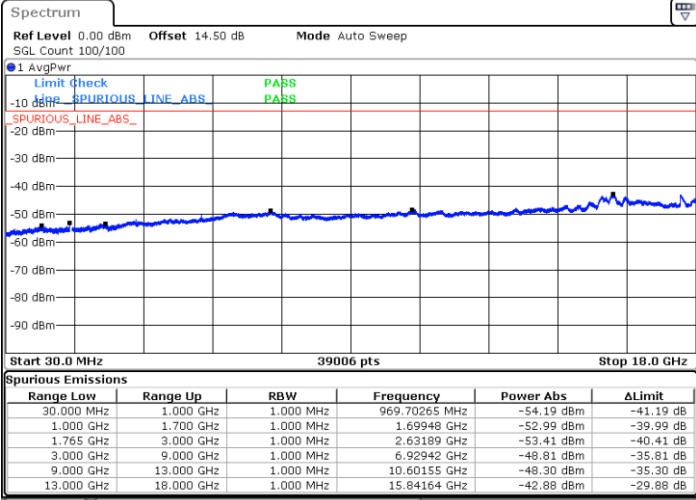
Date: 16.AUG.2023 18:58:15



LTE Band 4 / 3MHz

Lowest Channel / QPSK

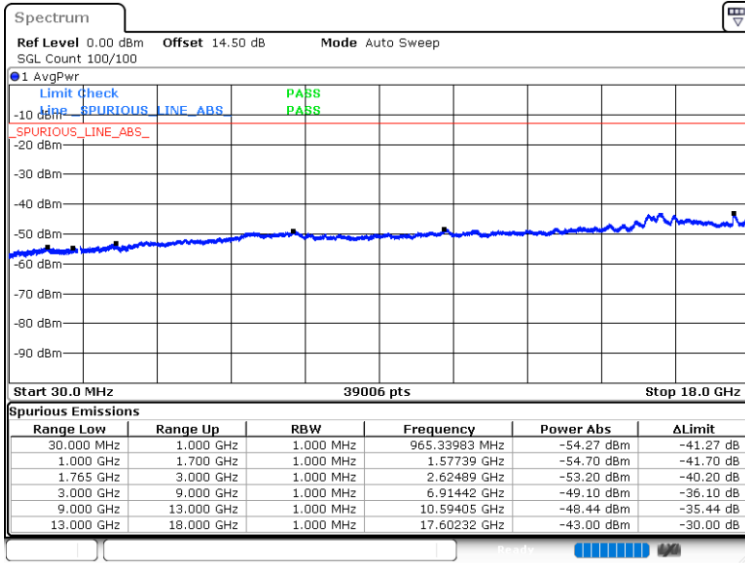
Middle Channel / QPSK



Date: 16.AUG.2023 19:13:49

Date: 16.AUG.2023 19:15:09

Highest Channel / QPSK



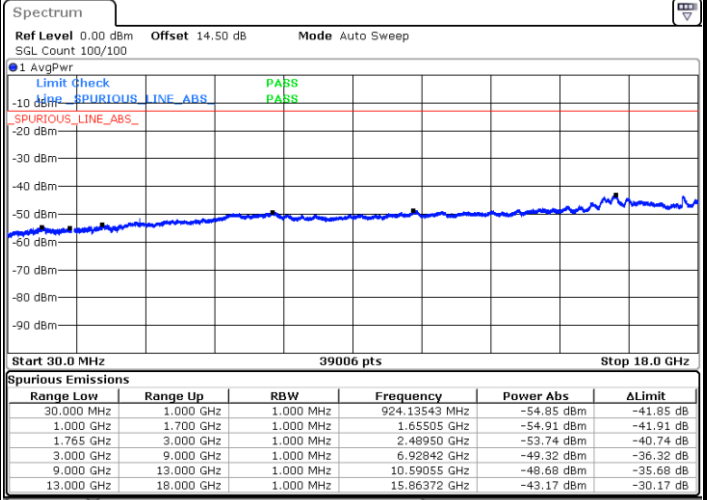
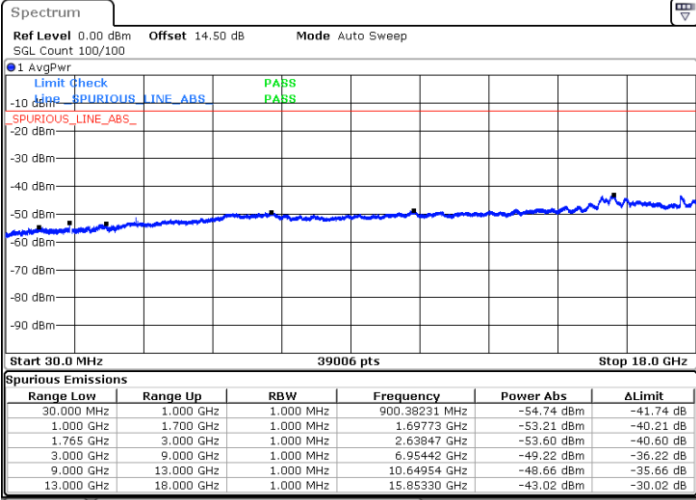
Date: 16.AUG.2023 19:21:54



LTE Band 4 / 5MHz

Lowest Channel / QPSK

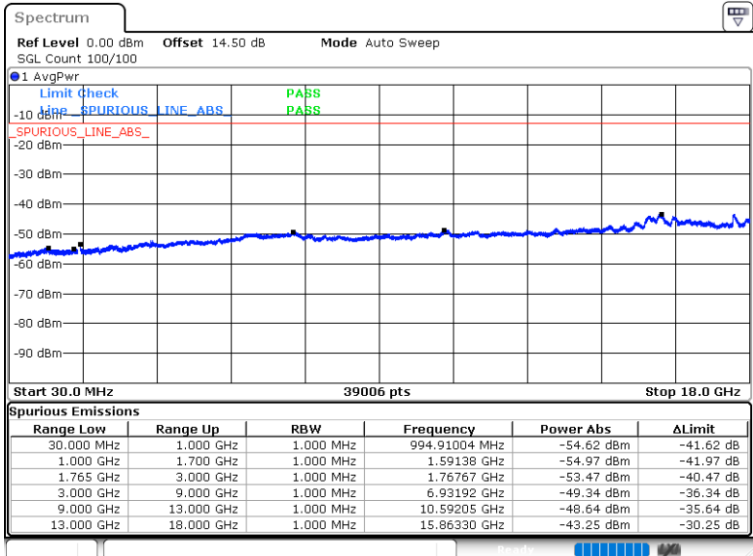
Middle Channel / QPSK



Date: 17.AUG.2023 18:09:50

Date: 17.AUG.2023 18:11:03

Highest Channel / QPSK



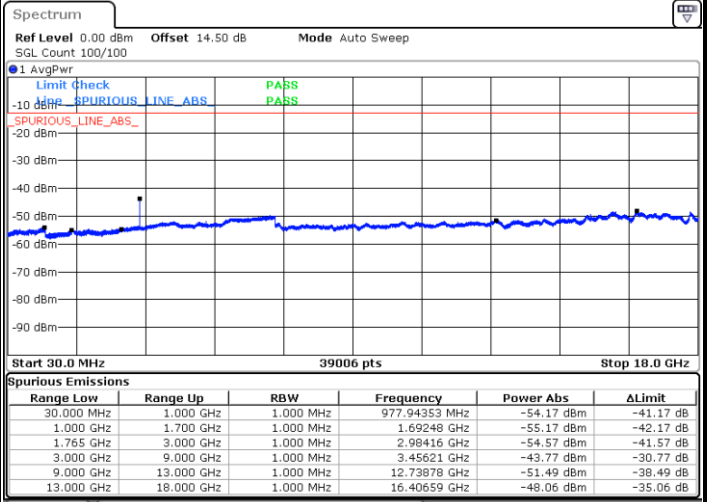
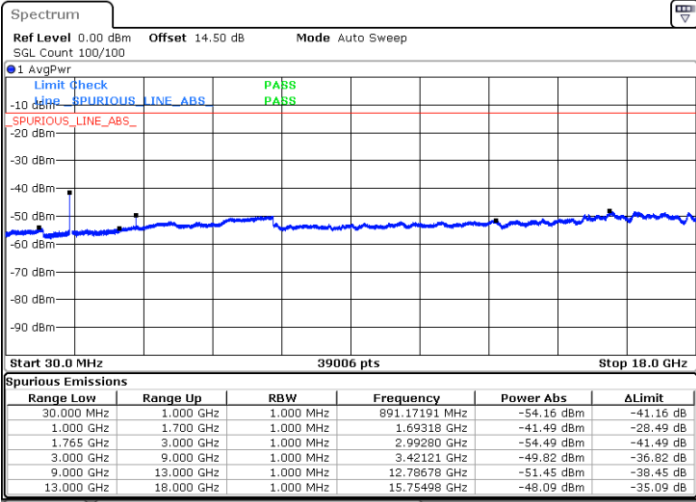
Date: 17.AUG.2023 18:23:29



LTE Band 4 / 10MHz

Lowest Channel / QPSK

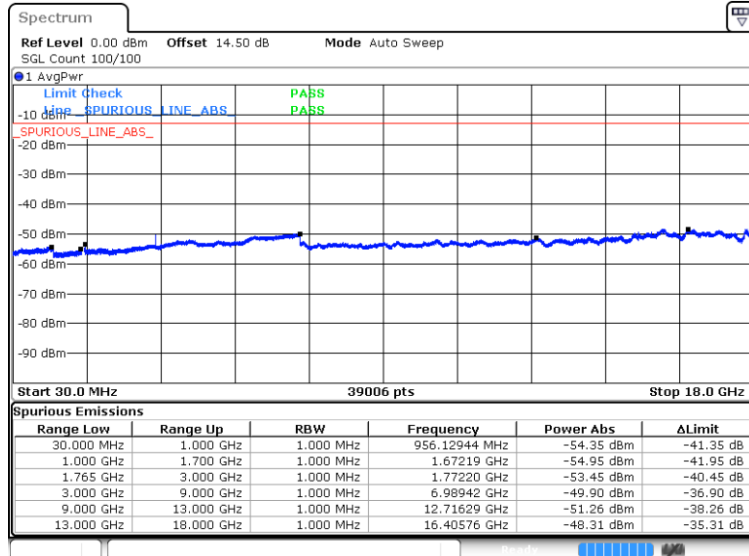
Middle Channel / QPSK



Date: 17.AUG.2023 11:55:33

Date: 17.AUG.2023 11:58:45

Highest Channel / QPSK



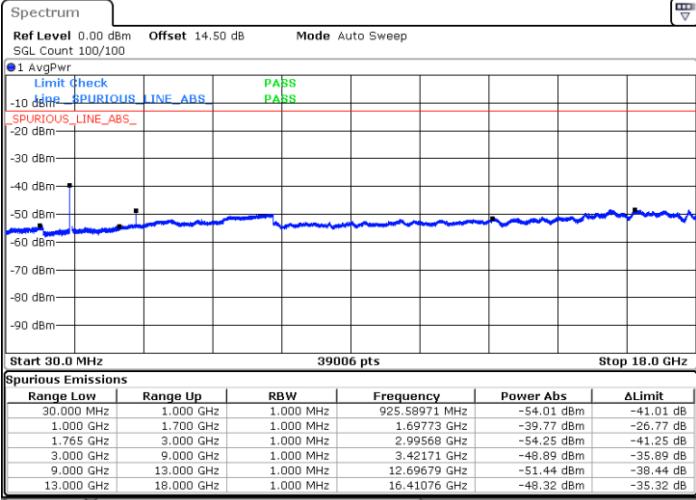
Date: 17.AUG.2023 12:16:07



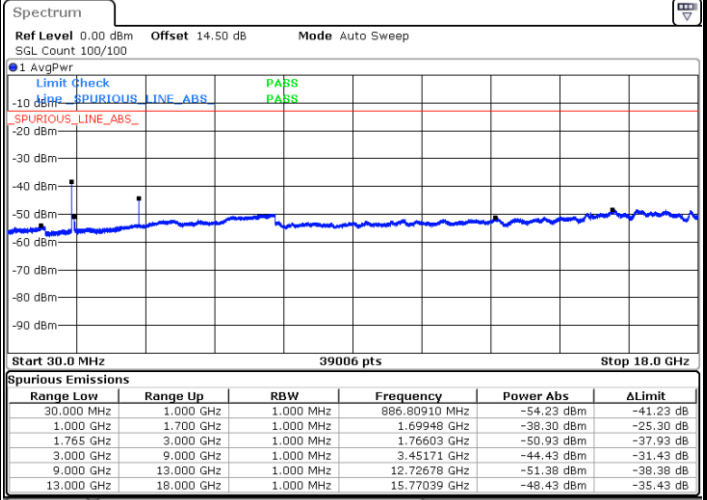
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

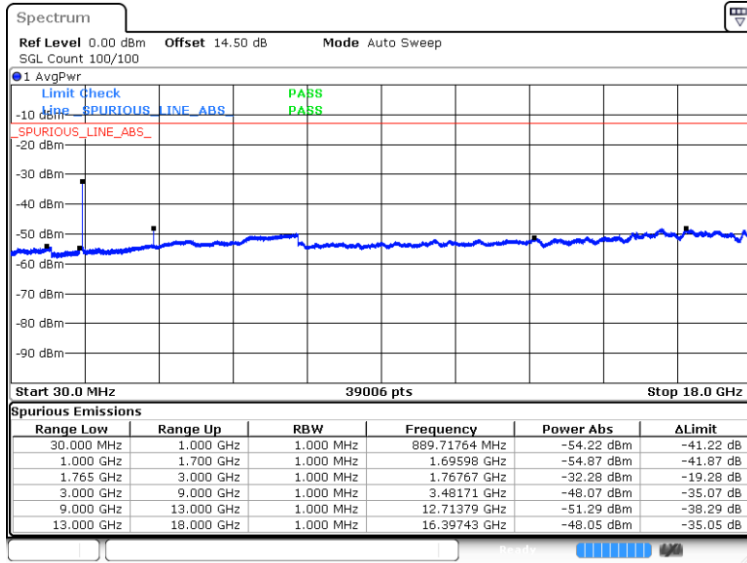


Date: 17 AUG 2023 13:17:30



Date: 17 AUG 2023 13:18:42

Highest Channel / QPSK



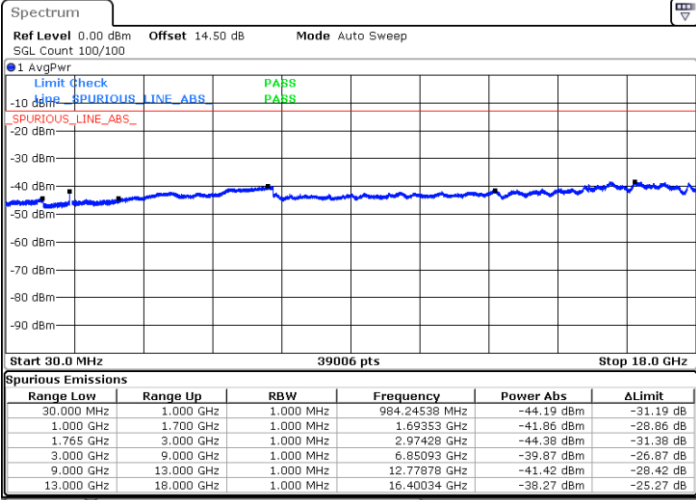
Date: 17 AUG 2023 14:24:19



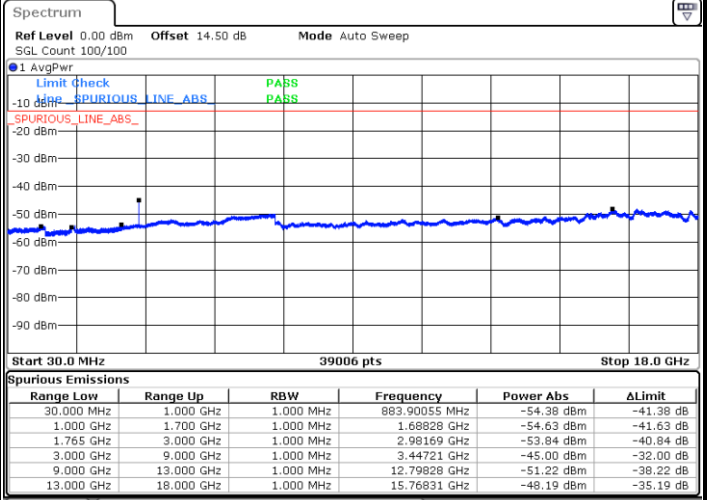
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

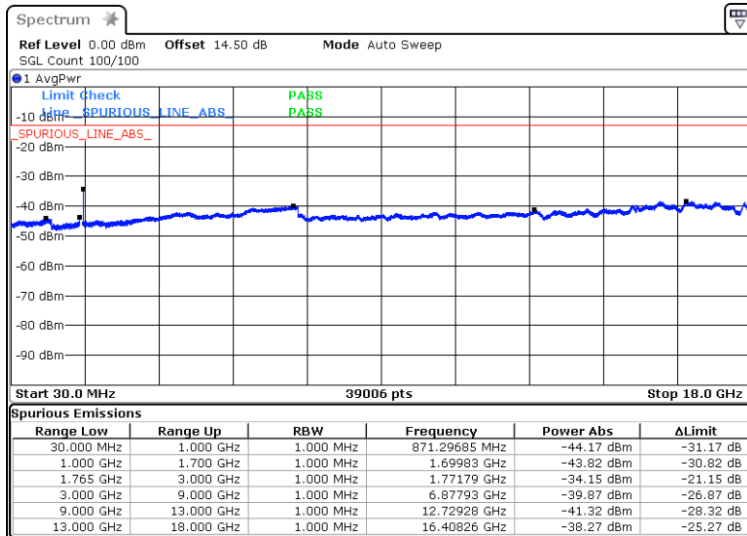


Date: 17.AUG.2023 15:12:38



Date: 17.AUG.2023 14:58:29

Highest Channel / QPSK



Date: 17.AUG.2023 15:16:31



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	0.0001	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0087	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0087	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0082	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0084	

Note:

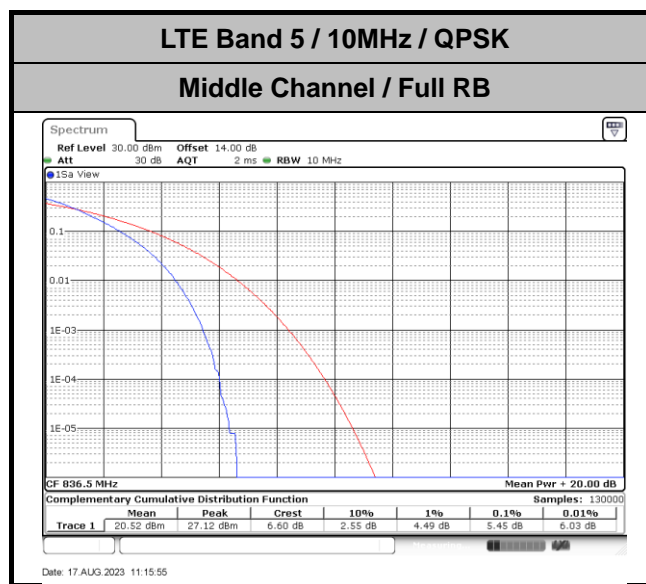
1. Normal Voltage = 3.8 V. ; Minimum Voltage = 3.4 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz			
Mod.	QPSK			Limit: 13dB
RB Size	Full RB			Result
Middle CH	5.45			PASS





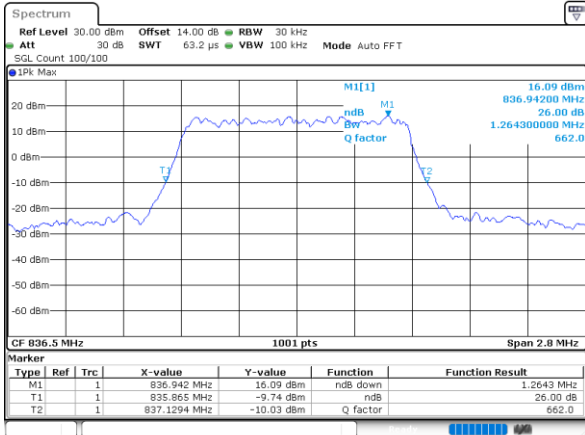
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		-		-	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	1.26	1.26	2.96	2.94	4.78	4.91	9.73	5.69	-	-	-	-



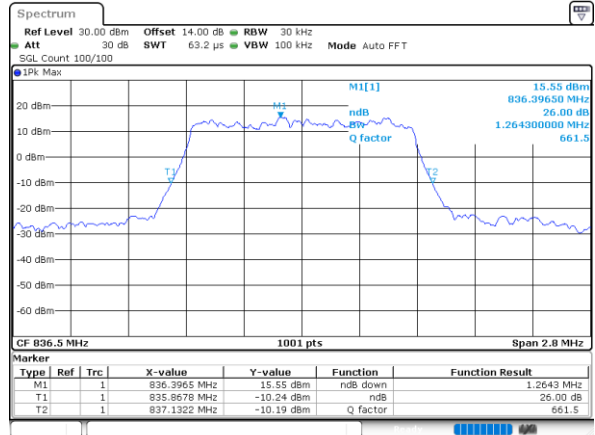
LTE Band 5

Middle Channel / 1.4MHz / QPSK



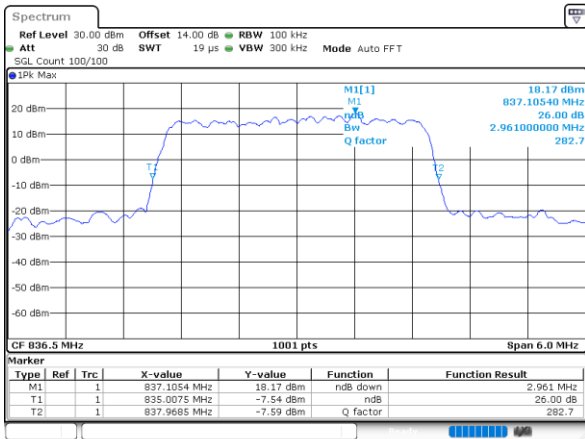
Date: 16.AUG.2023 12:55:52

Middle Channel / 1.4MHz / 16QAM



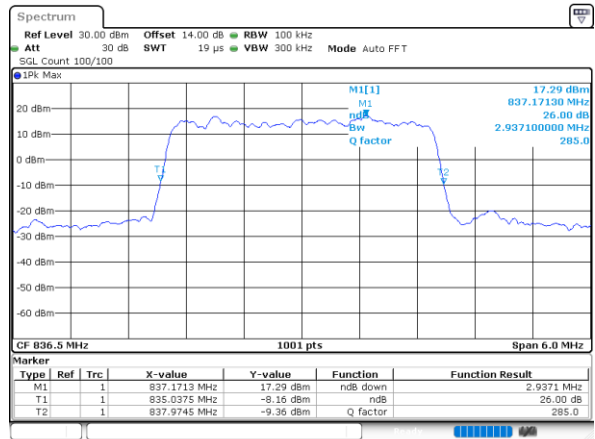
Date: 16.AUG.2023 12:56:37

Middle Channel / 3MHz / QPSK



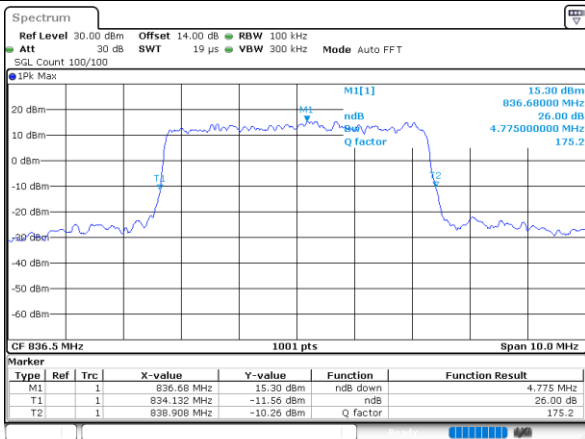
Date: 16.AUG.2023 13:11:22

Middle Channel / 3MHz / 16QAM



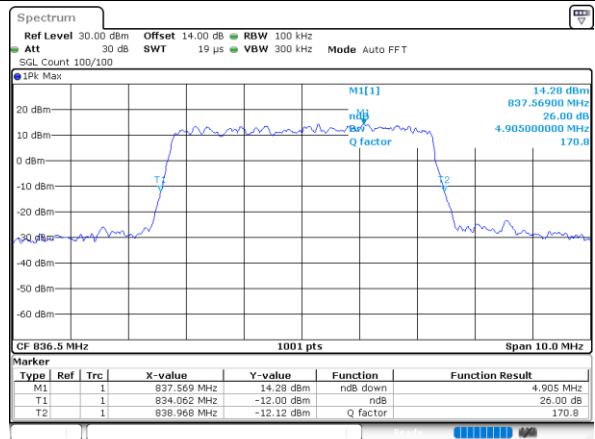
Date: 16.AUG.2023 13:12:07

Middle Channel / 5MHz / QPSK



Date: 16.AUG.2023 13:26:53

Middle Channel / 5MHz / 16QAM

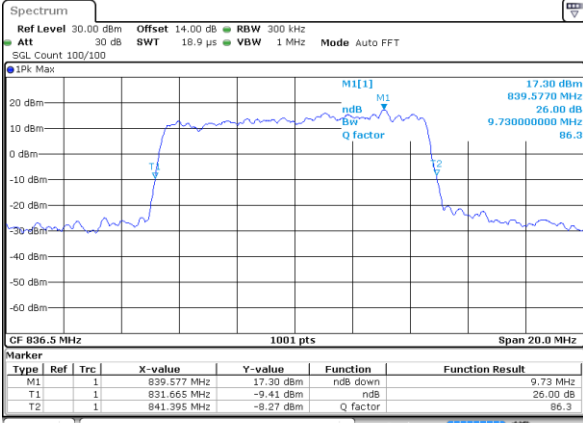


Date: 16.AUG.2023 13:27:38



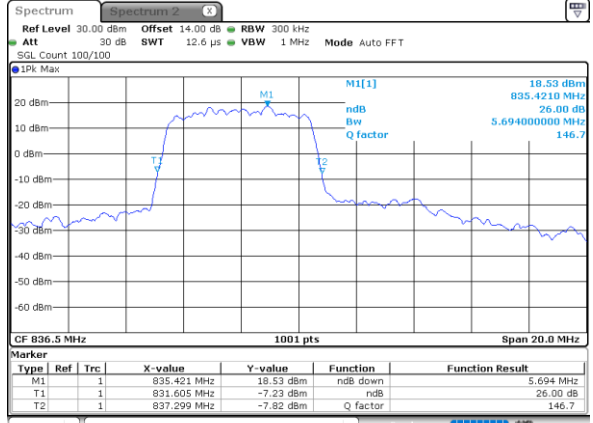
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 17 AUG 2023 11:14:38

Middle Channel / 10MHz / 16QAM



Date: 29 AUG 2023 16:32:09



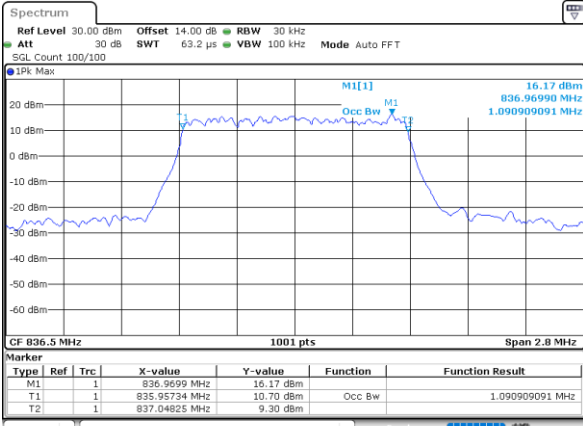
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		-		-	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Middle CH	1.09	1.09	2.72	2.71	4.48	4.48	8.99	5.05	-	-	-	-



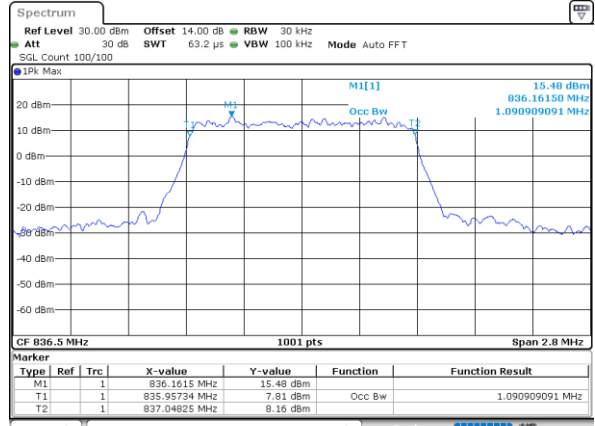
LTE Band 5

Middle Channel / 1.4MHz / QPSK



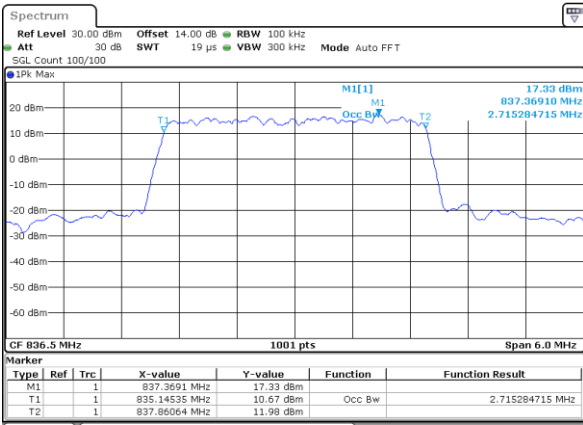
Date: 16.AUG.2023 12:55:38

Middle Channel / 1.4MHz / 16QAM



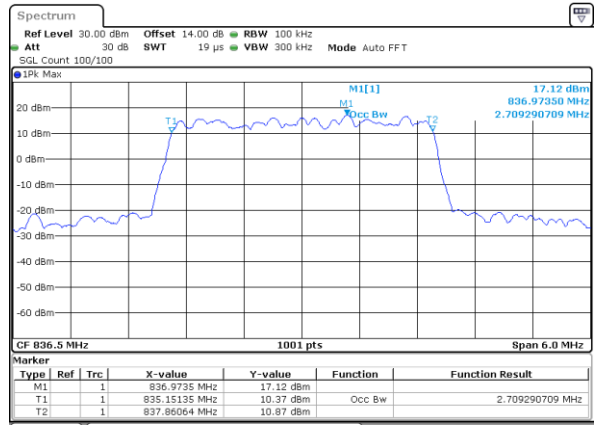
Date: 16.AUG.2023 12:56:23

Middle Channel / 3MHz / QPSK



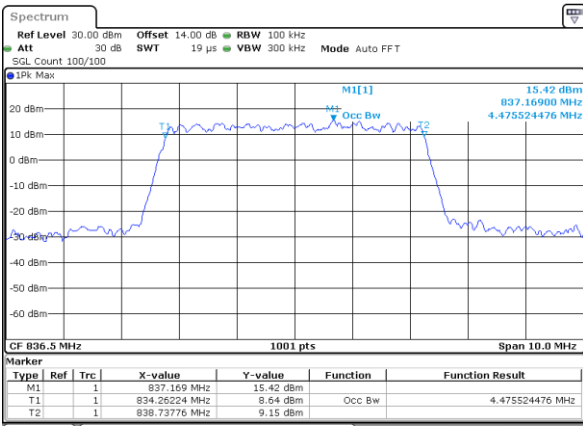
Date: 16.AUG.2023 13:11:08

Middle Channel / 3MHz / 16QAM



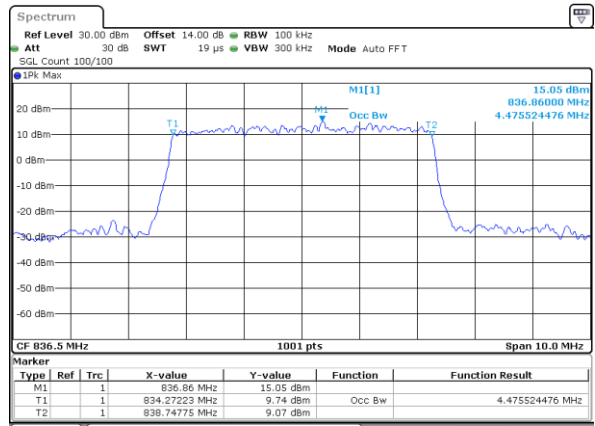
Date: 16.AUG.2023 13:11:53

Middle Channel / 5MHz / QPSK



Date: 16.AUG.2023 13:26:39

Middle Channel / 5MHz / 16QAM

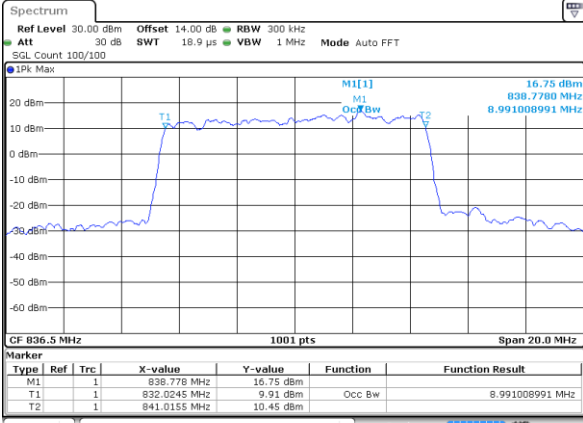


Date: 16.AUG.2023 13:27:24



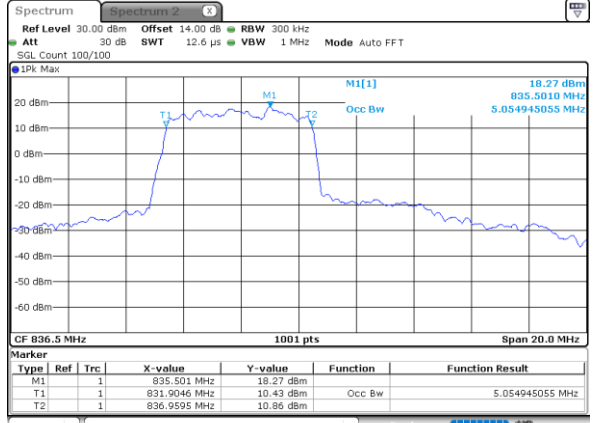
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 17 AUG 2023 11:12:30

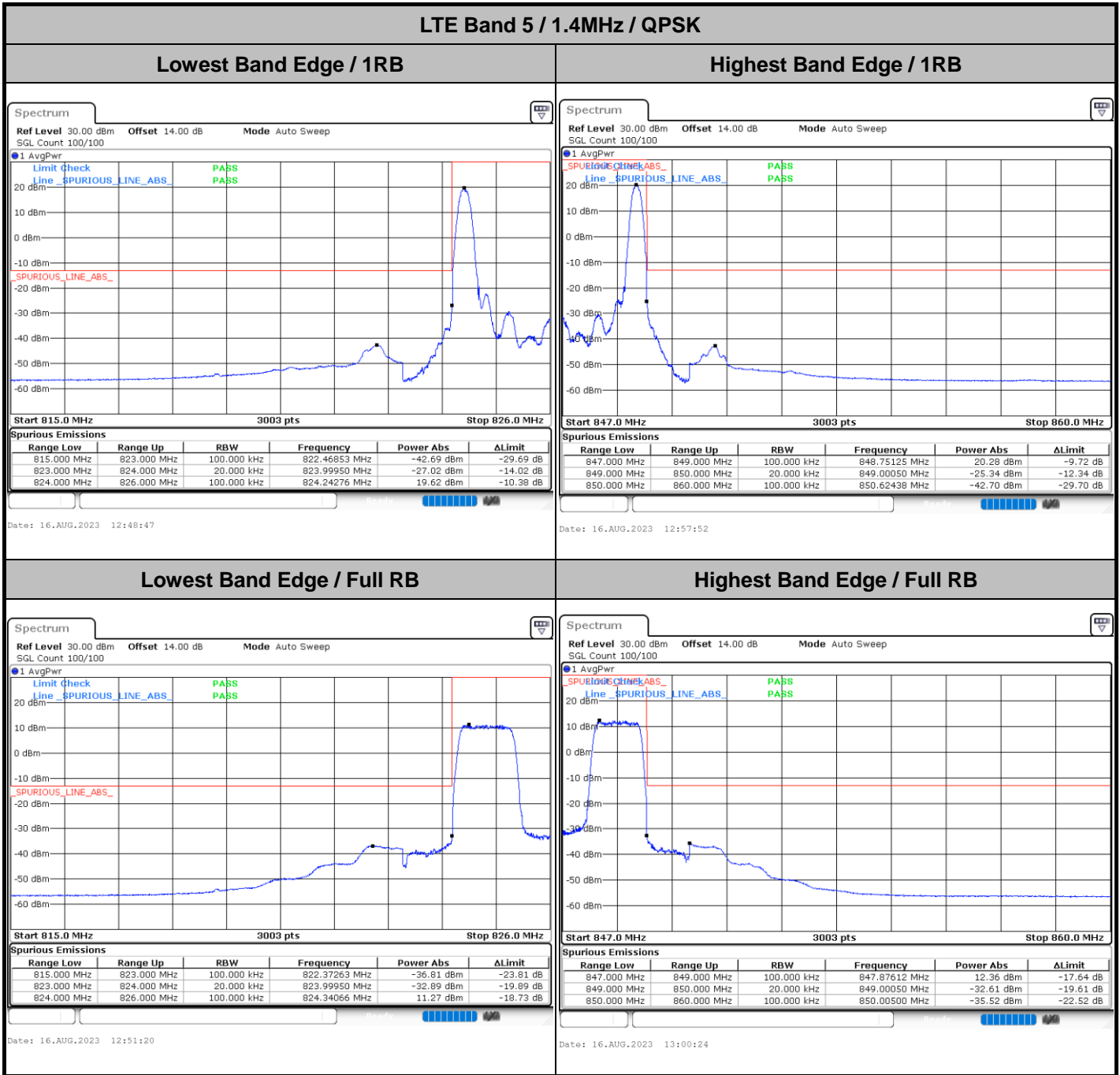
Middle Channel / 10MHz / 16QAM



Date: 29 AUG 2023 16:13:59



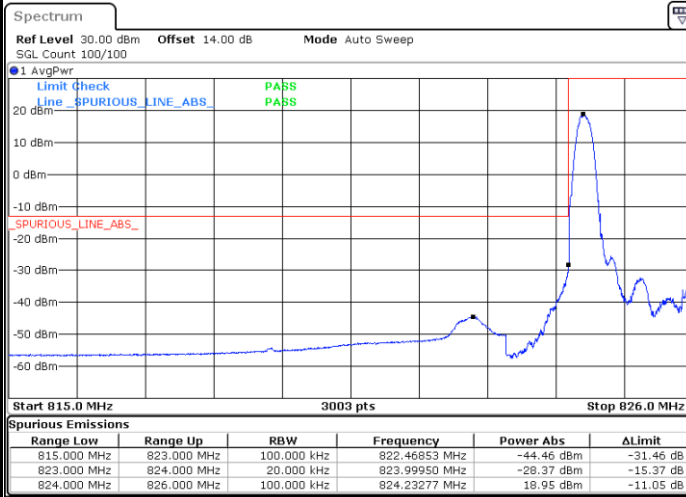
Conducted Band Edge





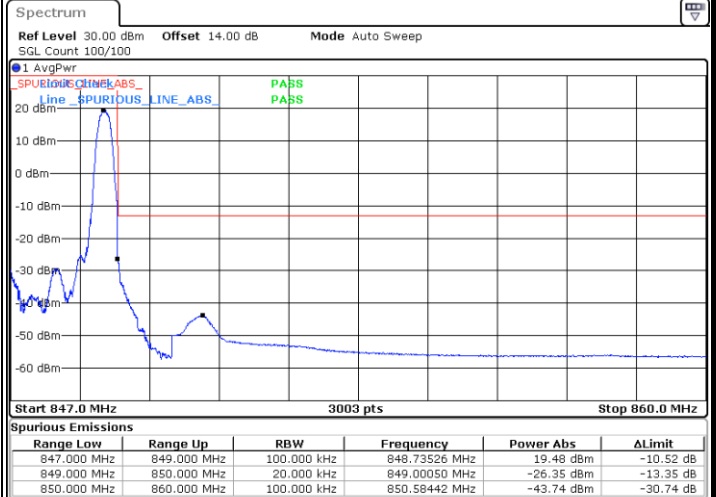
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



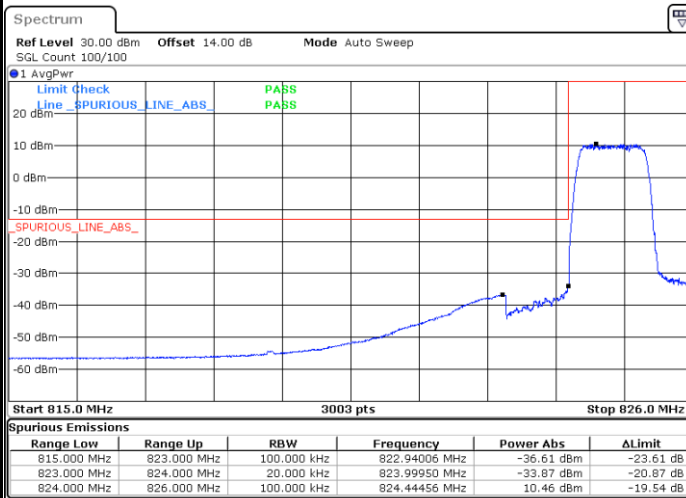
Date: 16.AUG.2023 12:50:03

Highest Band Edge / 1 RB



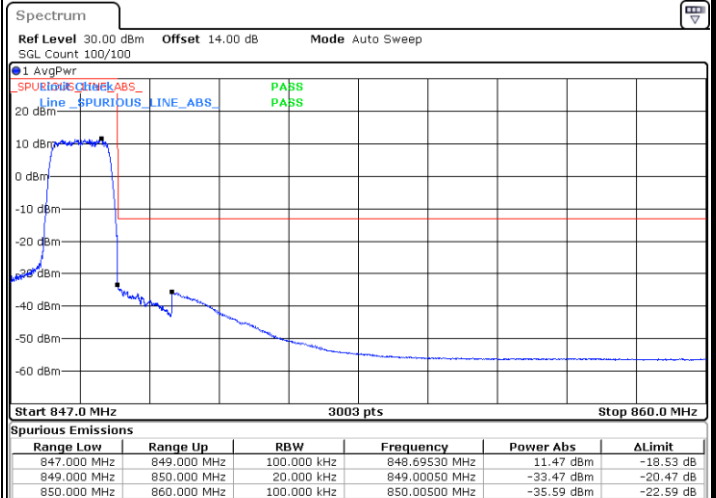
Date: 16.AUG.2023 12:59:08

Lowest Band Edge / Full RB



Date: 16.AUG.2023 12:52:36

Highest Band Edge / Full RB

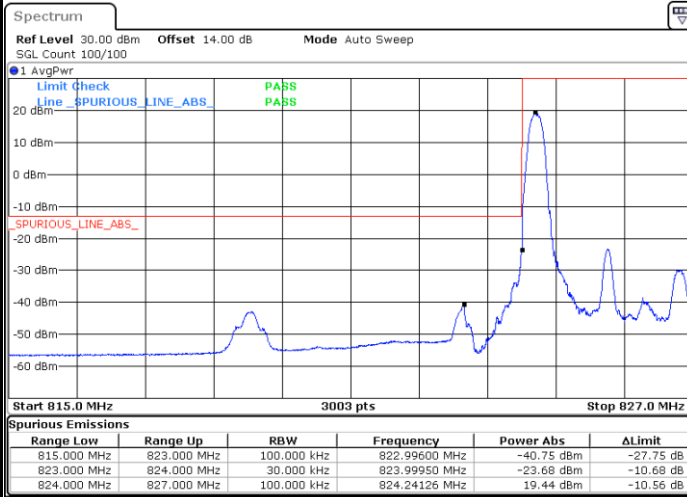


Date: 16.AUG.2023 13:01:41



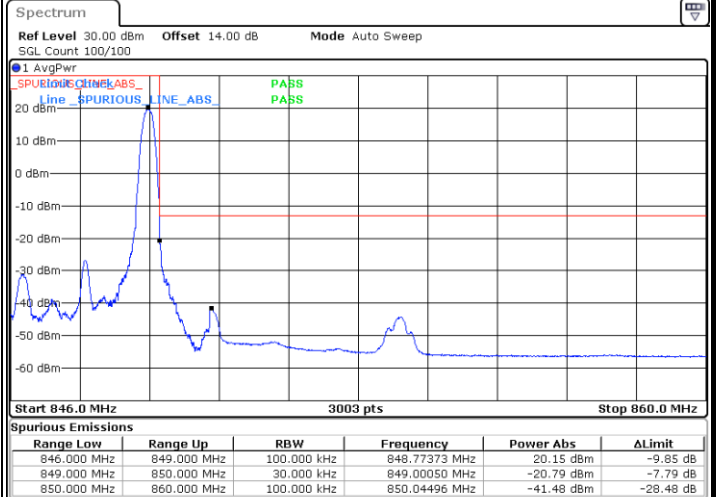
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



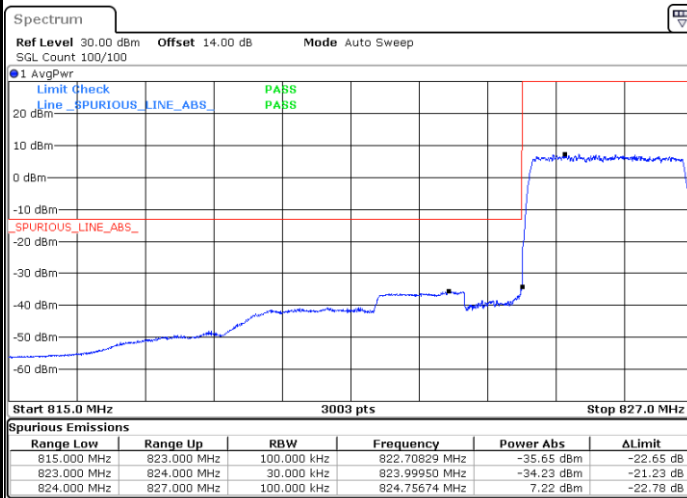
Date: 16.AUG.2023 13:04:18

Highest Band Edge / 1RB



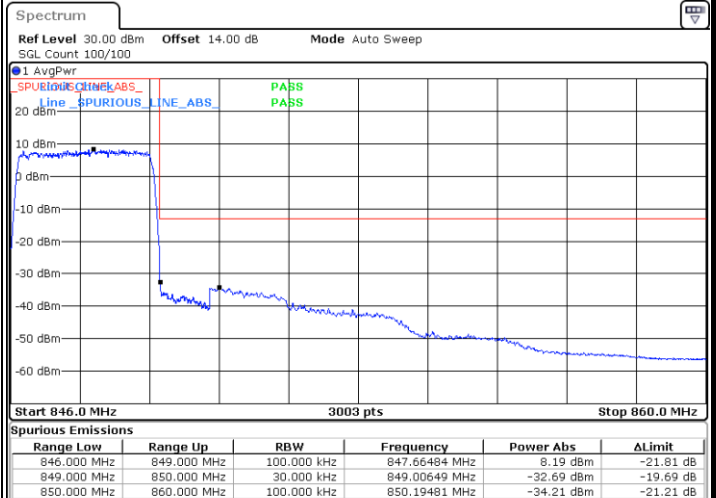
Date: 16.AUG.2023 13:13:23

Lowest Band Edge / Full RB



Date: 16.AUG.2023 13:06:50

Highest Band Edge / Full RB

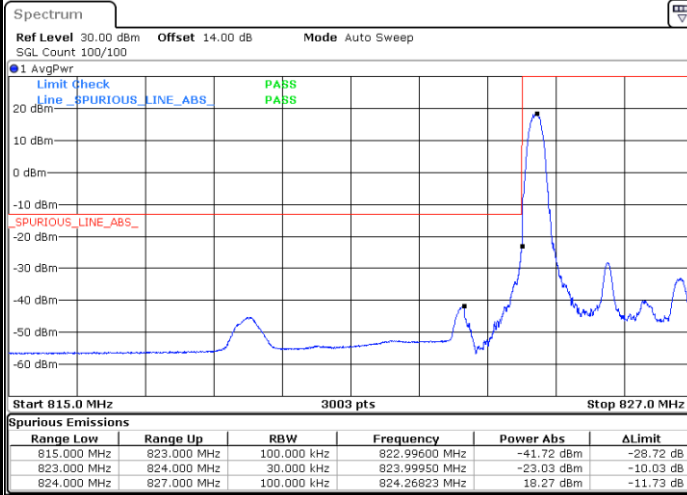


Date: 16.AUG.2023 13:15:55



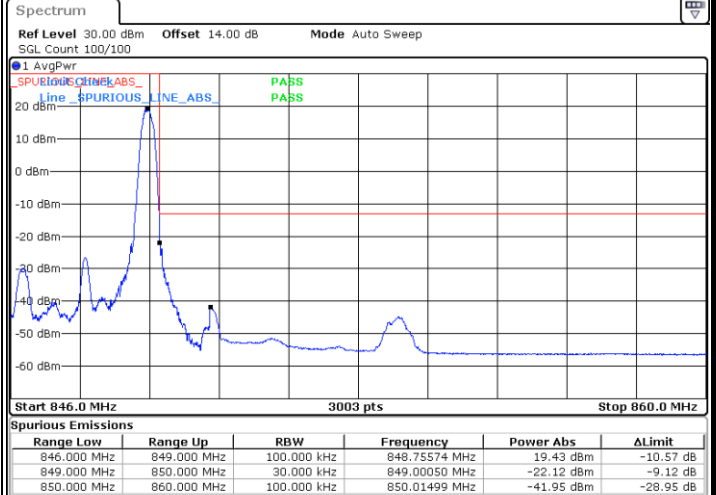
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



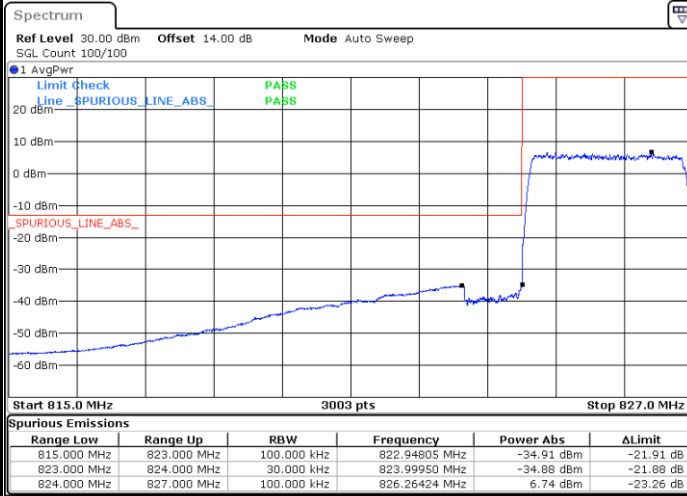
Date: 16.AUG.2023 13:05:34

Highest Band Edge / 1 RB



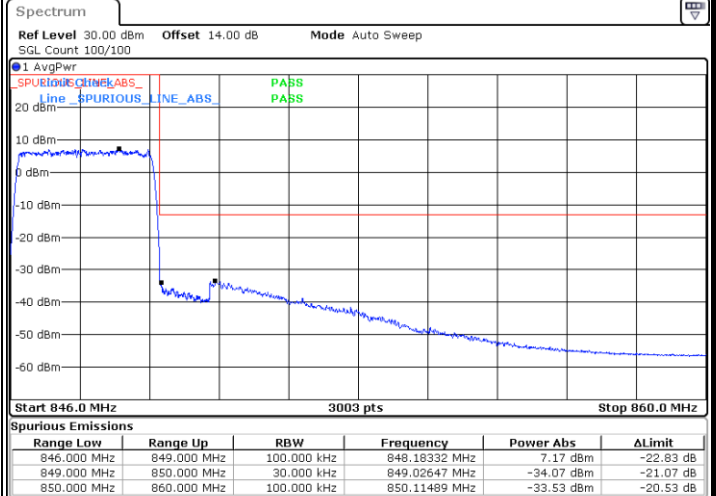
Date: 16.AUG.2023 13:14:39

Lowest Band Edge / Full RB



Date: 16.AUG.2023 13:08:06

Highest Band Edge / Full RB



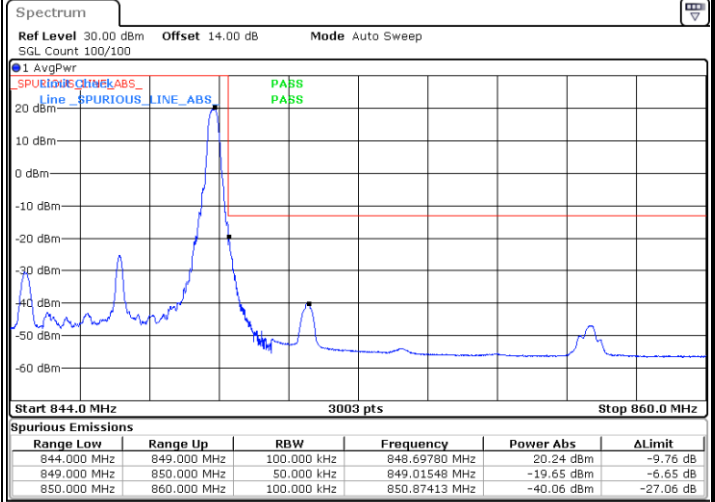
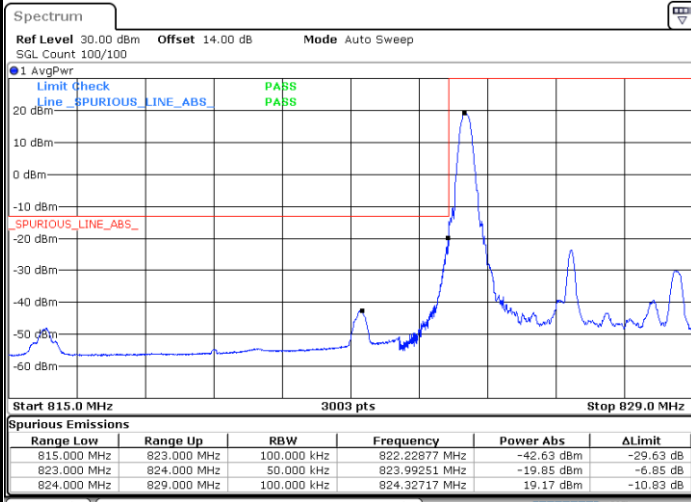
Date: 16.AUG.2023 13:17:11



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1RB

Highest Band Edge / 1RB

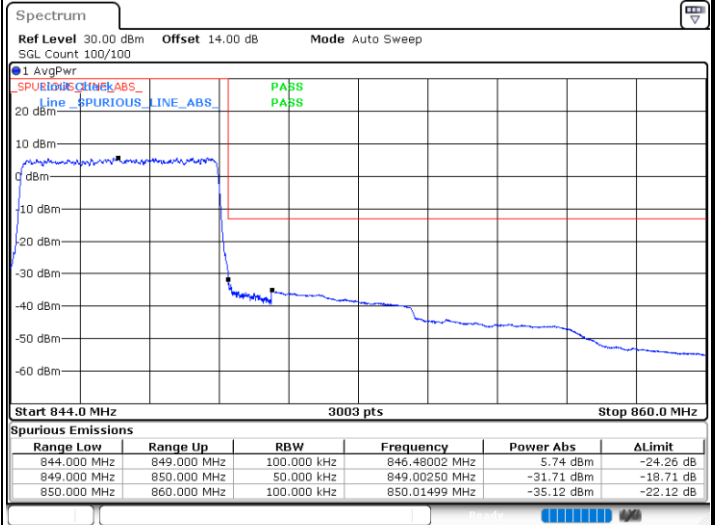
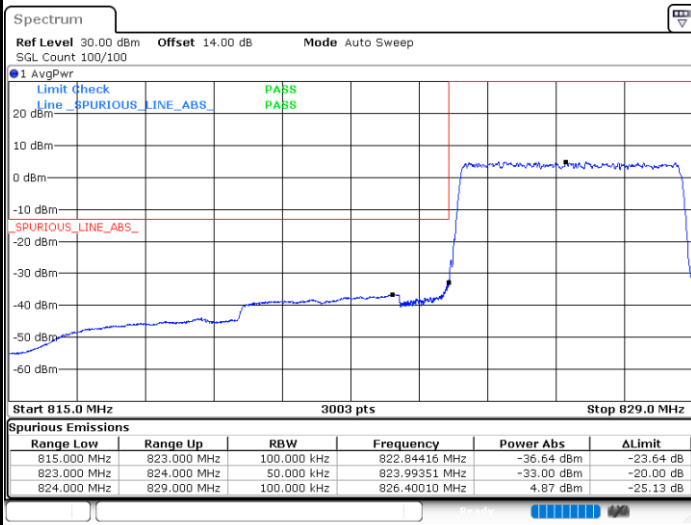


Date: 16.AUG.2023 13:19:48

Date: 16.AUG.2023 13:28:54

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.AUG.2023 13:22:20

Date: 16.AUG.2023 13:31:26