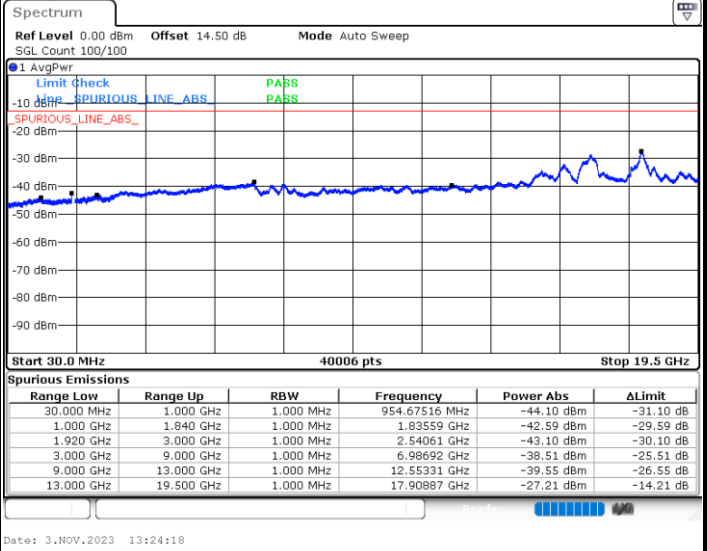
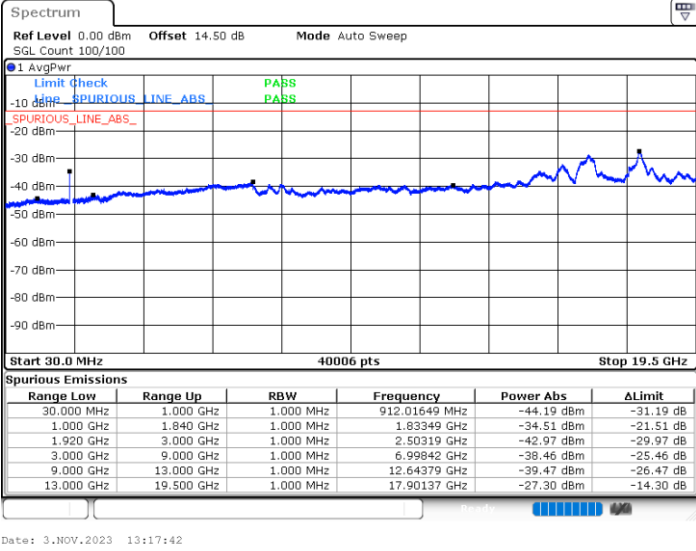




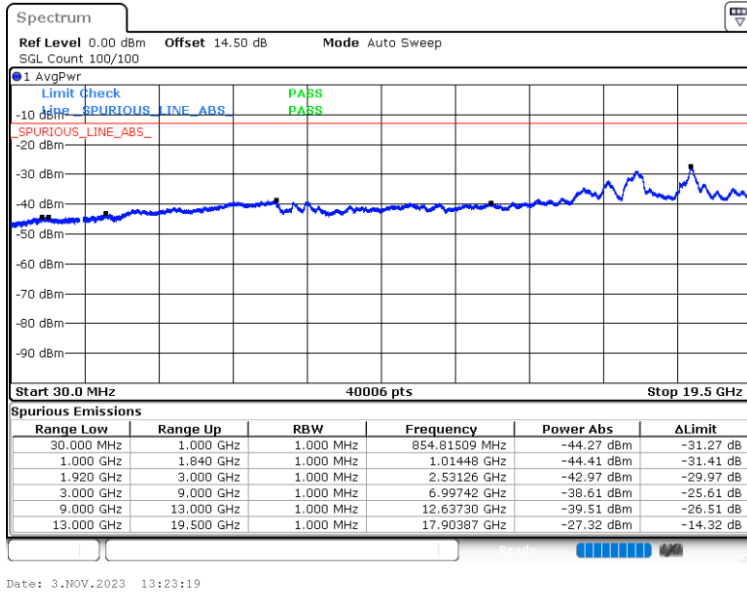
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

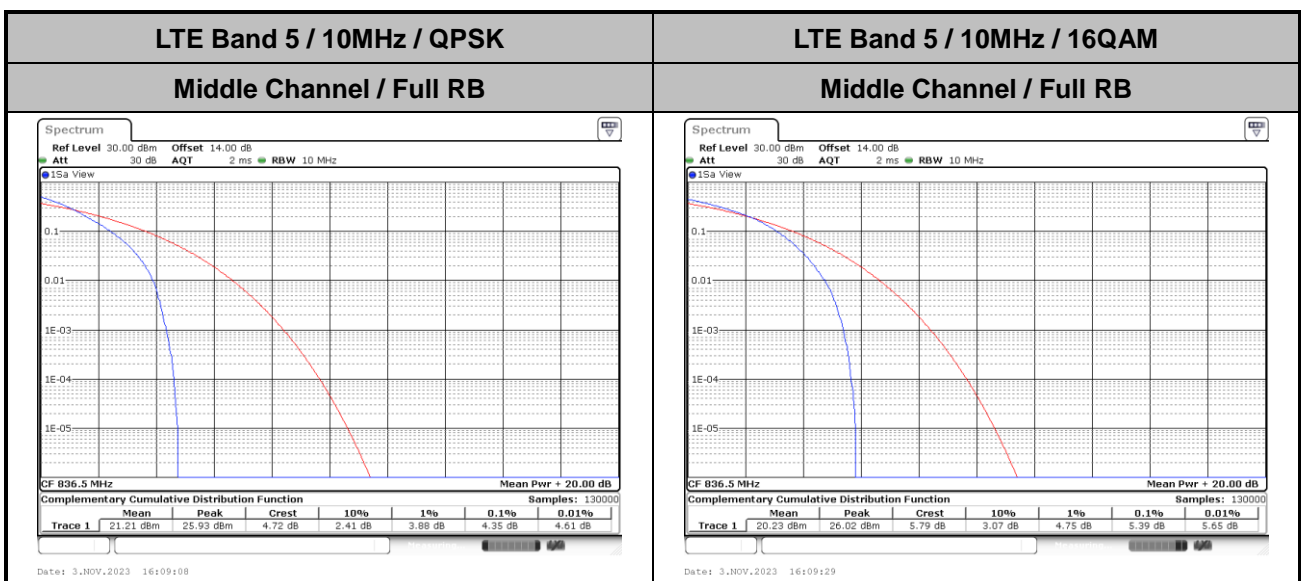
1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	-	Limit: 13dB
RB Size	Full RB	Full RB	-	Result
Middle CH	4.35	5.39	-	PASS





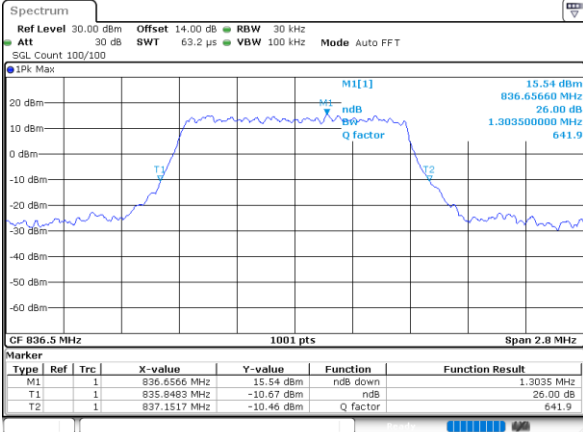
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Middle CH	1.30	1.28	2.97	3.02	4.97	4.96	9.89	9.81				



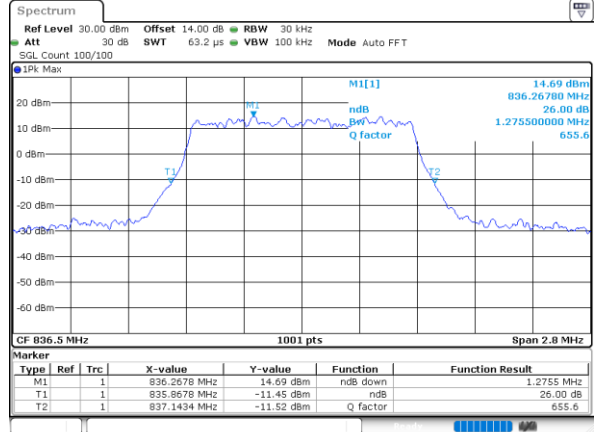
LTE Band 5

Middle Channel / 1.4MHz / QPSK



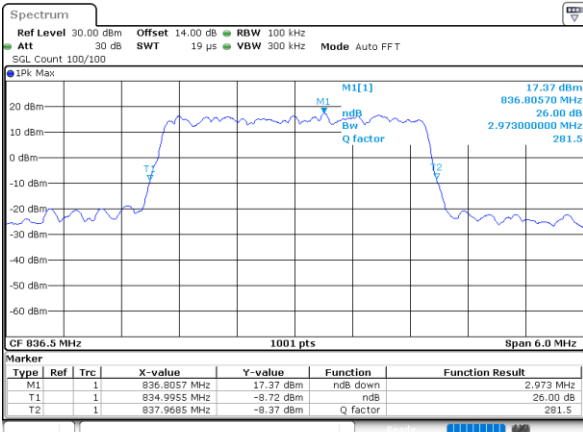
Date: 3,NOV,2023 15:24:08

Middle Channel / 1.4MHz / 16QAM



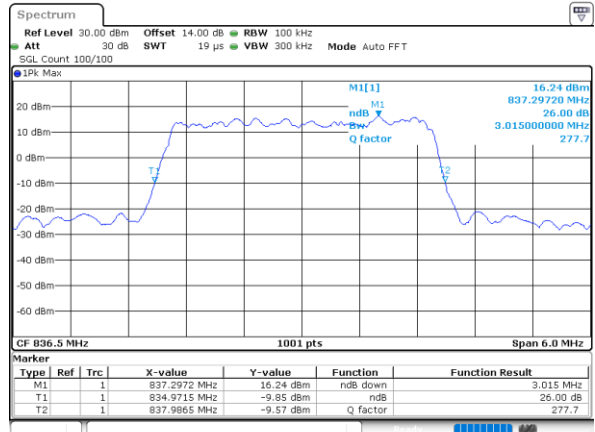
Date: 3,NOV,2023 15:24:40

Middle Channel / 3MHz / QPSK



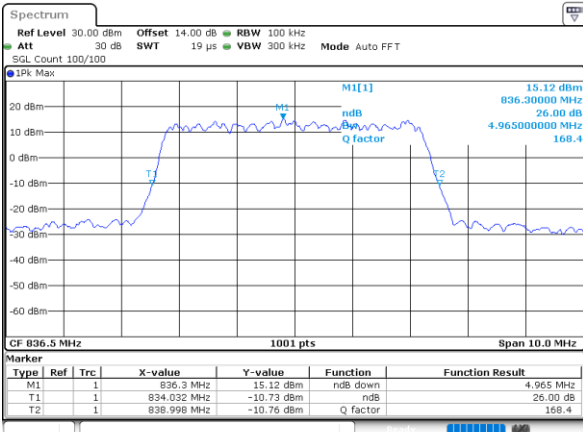
Date: 3,NOV,2023 15:41:08

Middle Channel / 3MHz / 16QAM



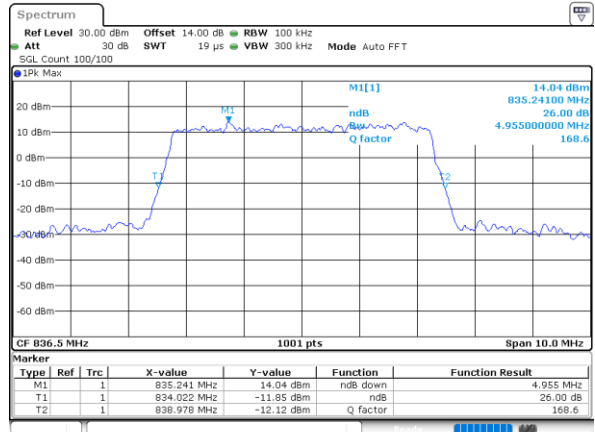
Date: 3,NOV,2023 15:42:38

Middle Channel / 5MHz / QPSK



Date: 3,NOV,2023 15:55:49

Middle Channel / 5MHz / 16QAM

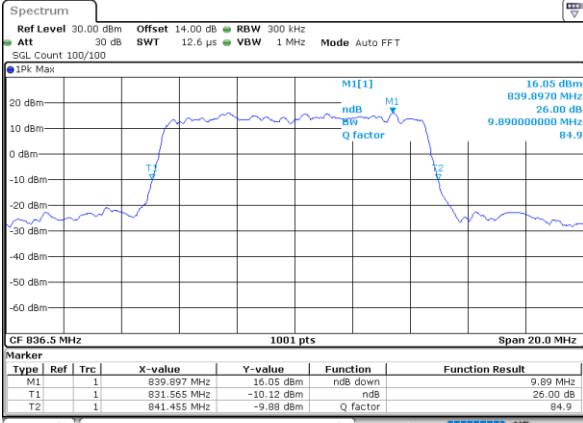


Date: 3,NOV,2023 15:56:44



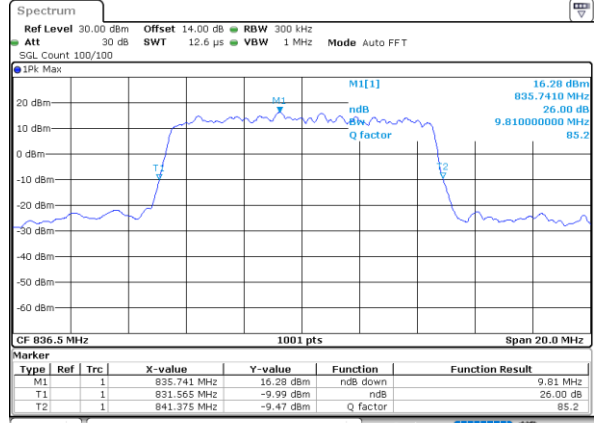
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 3.NOV.2023 16:10:42

Middle Channel / 10MHz / 16QAM



Date: 3.NOV.2023 16:08:22



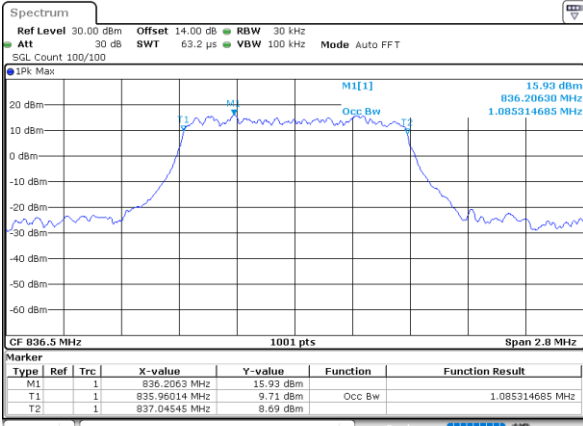
Occupied Bandwidth

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	1.10	2.72	2.71	4.48	4.50	8.99	9.01				



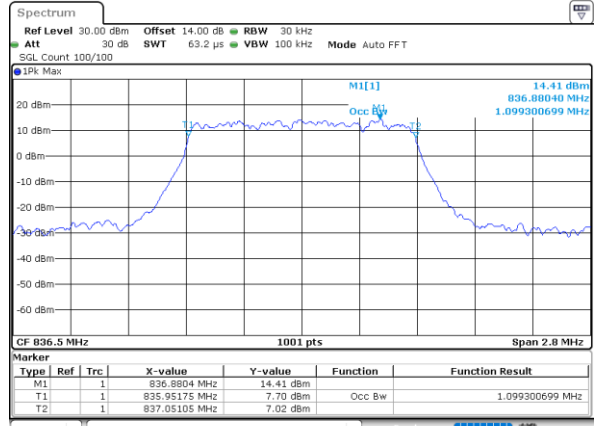
LTE Band 5

Middle Channel / 1.4MHz / QPSK



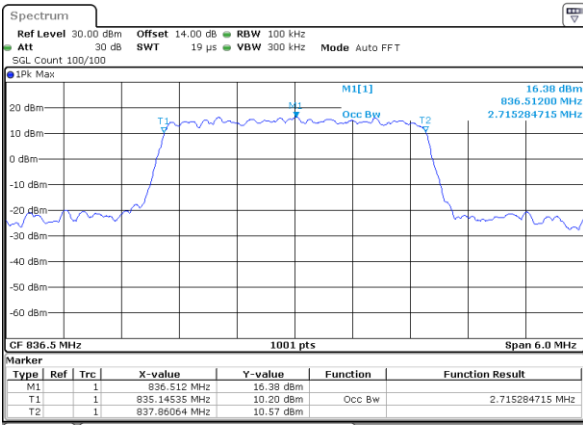
Date: 3,NOV,2023 15:23:56

Middle Channel / 1.4MHz / 16QAM



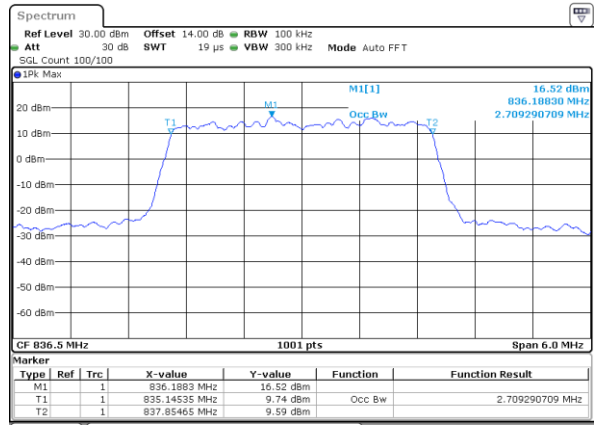
Date: 3,NOV,2023 15:24:29

Middle Channel / 3MHz / QPSK



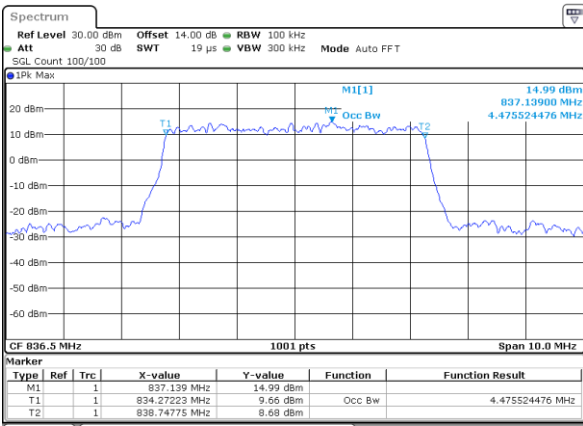
Date: 3,NOV,2023 15:40:36

Middle Channel / 3MHz / 16QAM



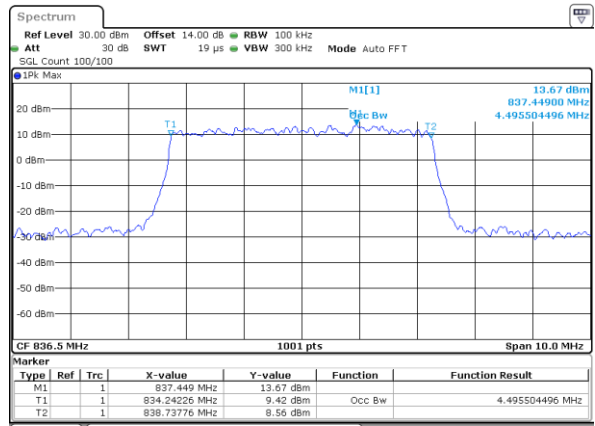
Date: 3,NOV,2023 15:42:15

Middle Channel / 5MHz / QPSK



Date: 3,NOV,2023 15:55:01

Middle Channel / 5MHz / 16QAM

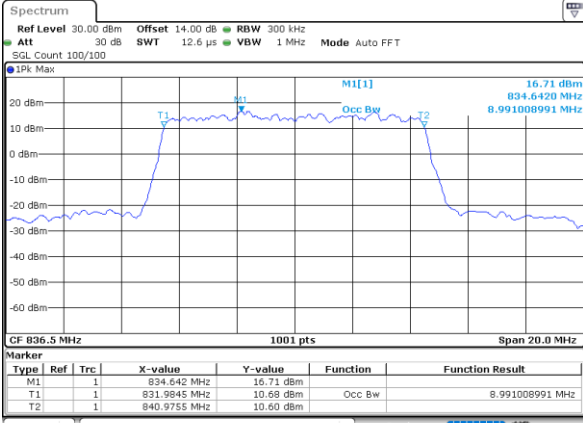


Date: 3,NOV,2023 15:56:24



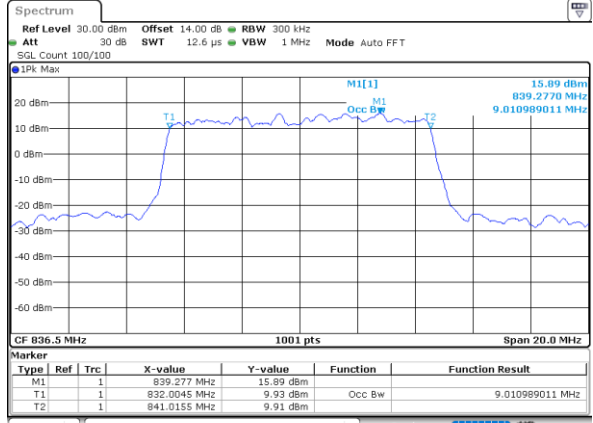
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 3.NOV.2023 16:07:28

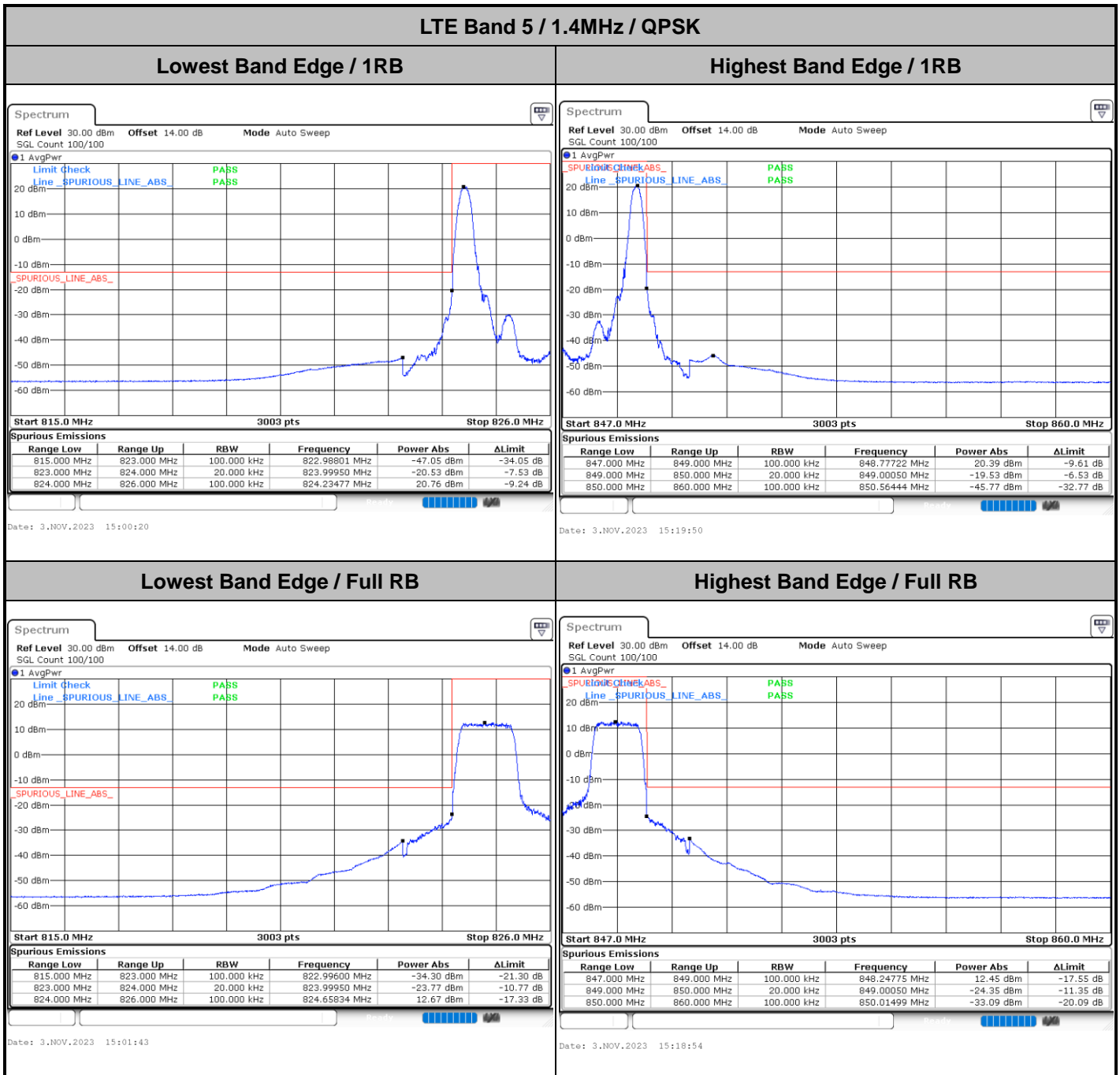
Middle Channel / 10MHz / 16QAM



Date: 3.NOV.2023 16:08:08



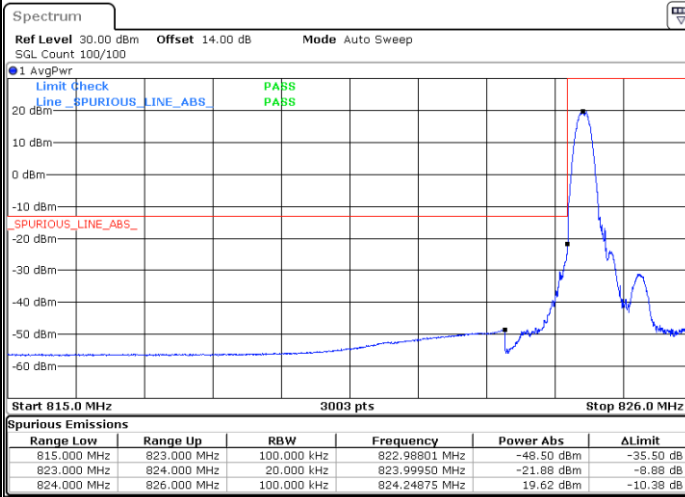
Conducted Band Edge





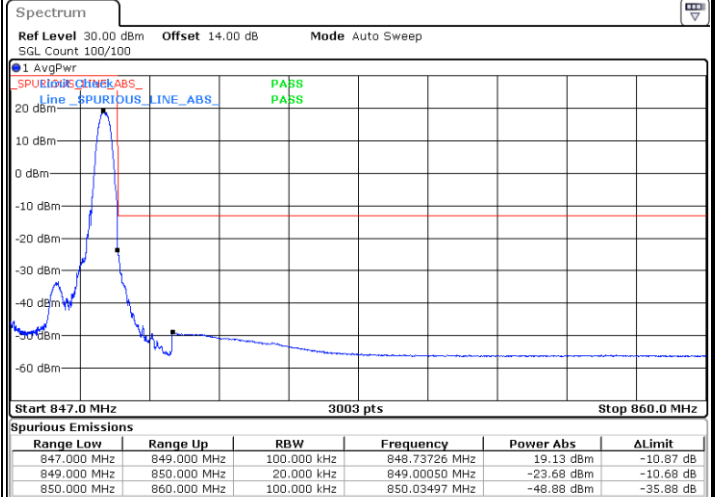
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



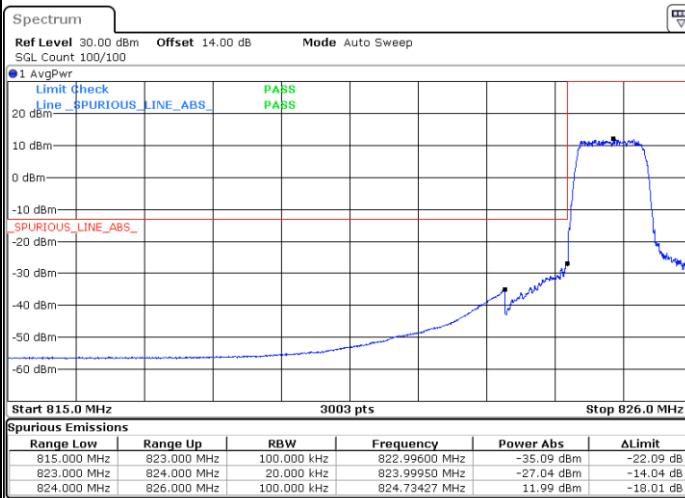
Date: 3.NOV.2023 14:59:29

Highest Band Edge / 1 RB



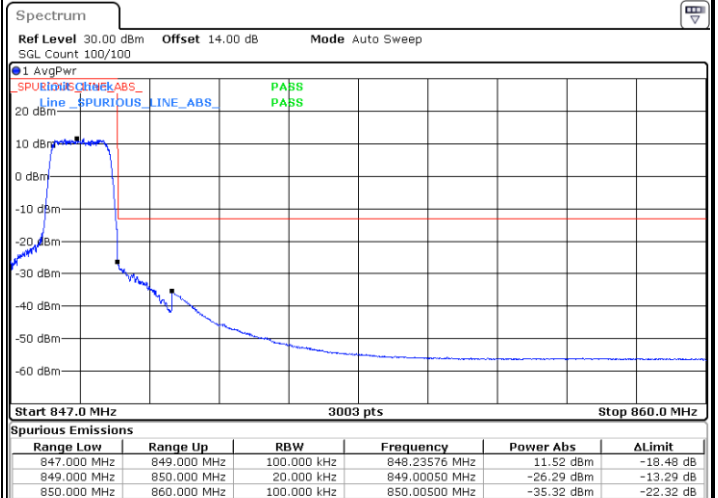
Date: 3.NOV.2023 15:20:51

Lowest Band Edge / Full RB



Date: 3.NOV.2023 15:02:42

Highest Band Edge / Full RB

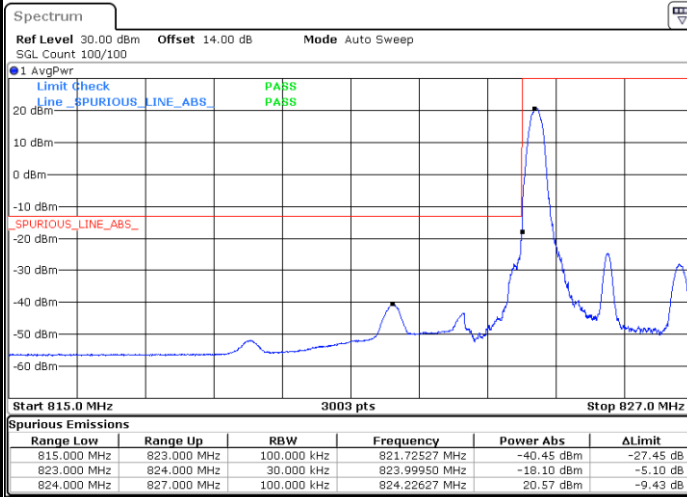


Date: 3.NOV.2023 15:18:03



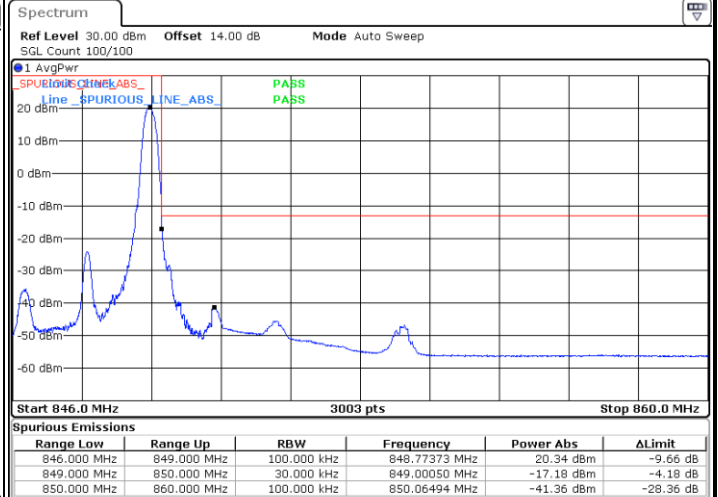
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



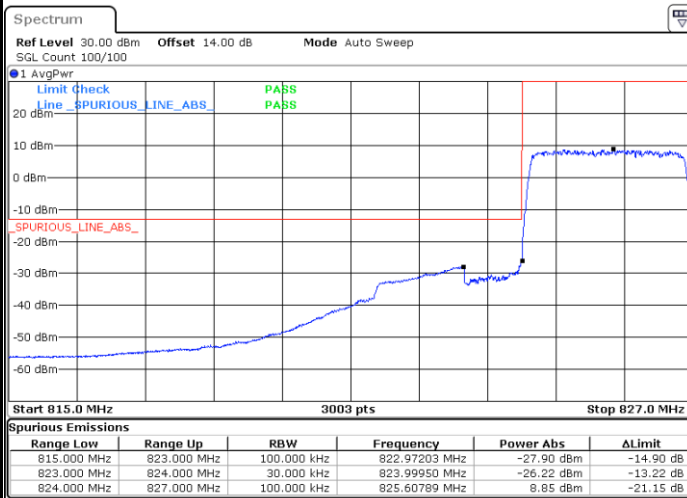
Date: 3.NOV.2023 15:25:54

Highest Band Edge / 1RB



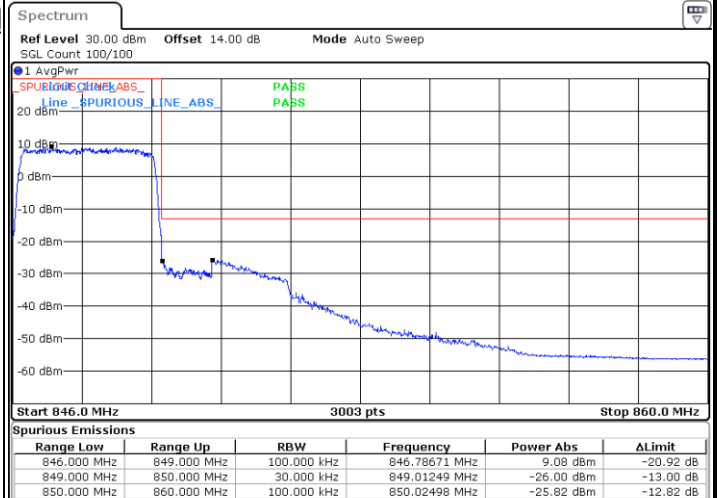
Date: 3.NOV.2023 15:34:14

Lowest Band Edge / Full RB



Date: 3.NOV.2023 15:29:31

Highest Band Edge / Full RB

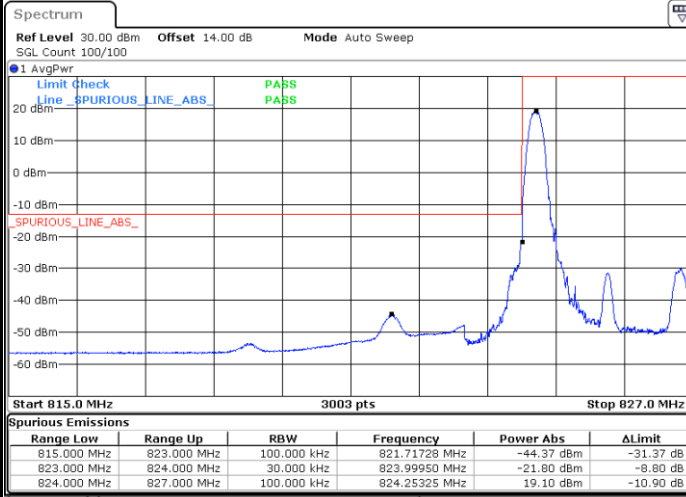


Date: 3.NOV.2023 15:30:39



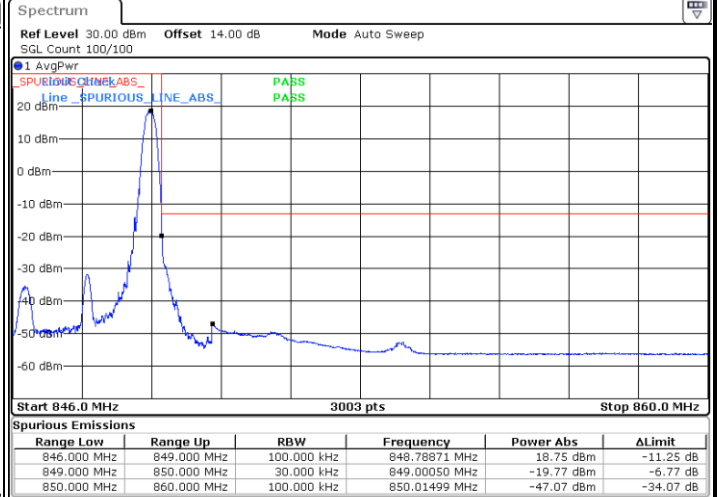
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



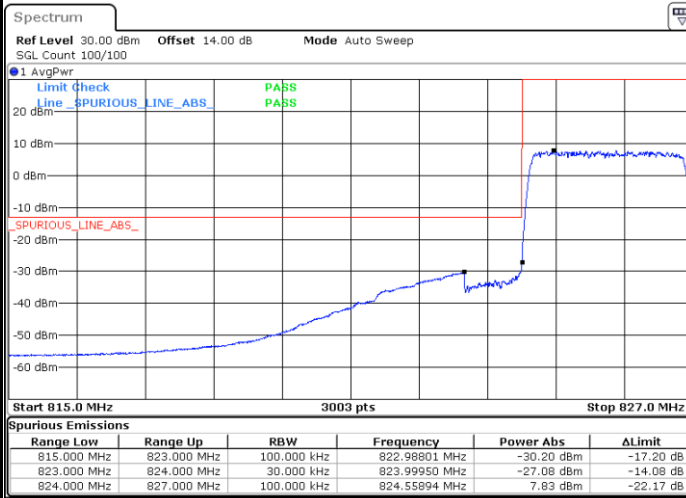
Date: 3.NOV.2023 15:27:29

Highest Band Edge / 1 RB



Date: 3.NOV.2023 15:33:05

Lowest Band Edge / Full RB



Date: 3.NOV.2023 15:28:20

Highest Band Edge / Full RB

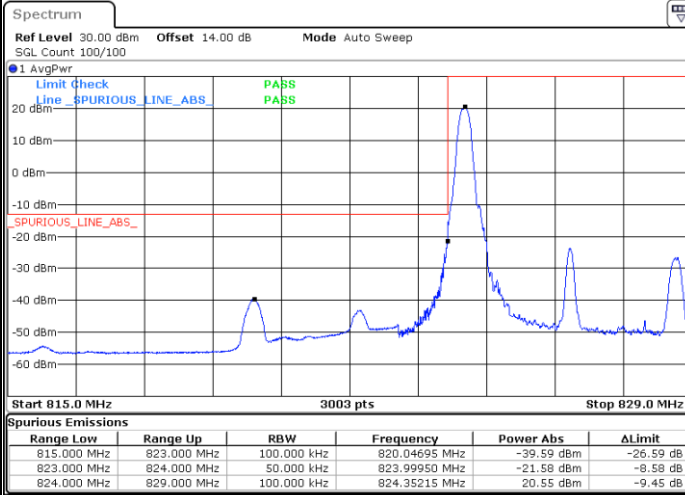


Date: 3.NOV.2023 15:31:48



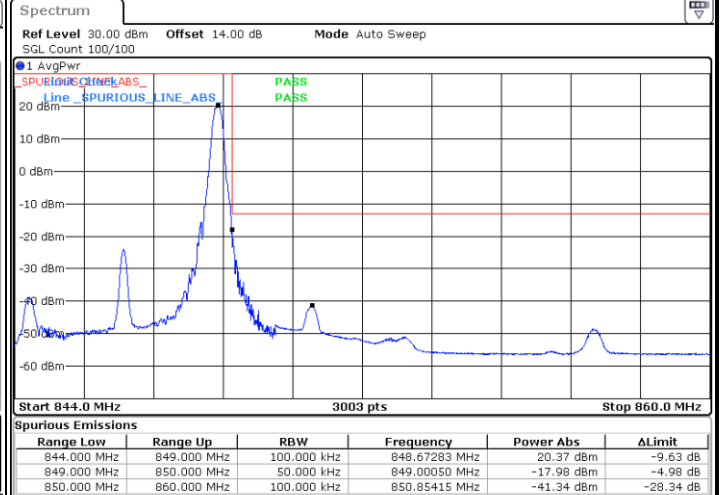
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1RB



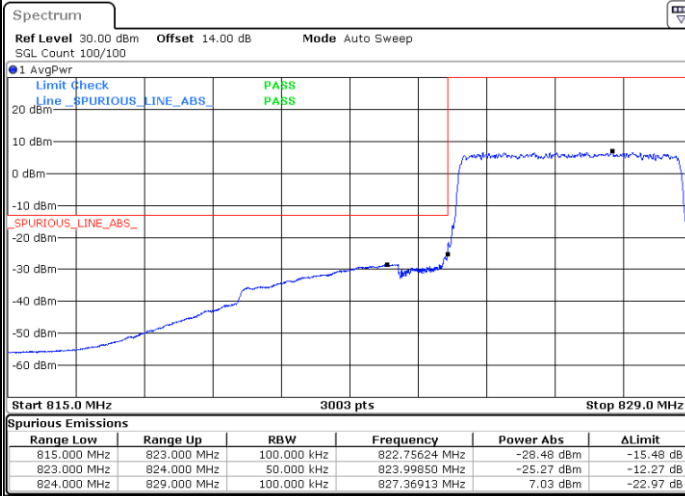
Date: 3.NOV.2023 15:44:39

Highest Band Edge / 1RB



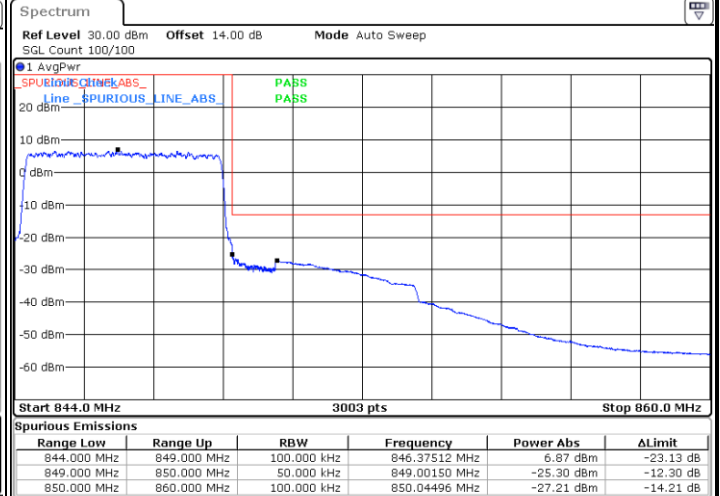
Date: 3.NOV.2023 15:52:54

Lowest Band Edge / Full RB



Date: 3.NOV.2023 15:47:54

Highest Band Edge / Full RB

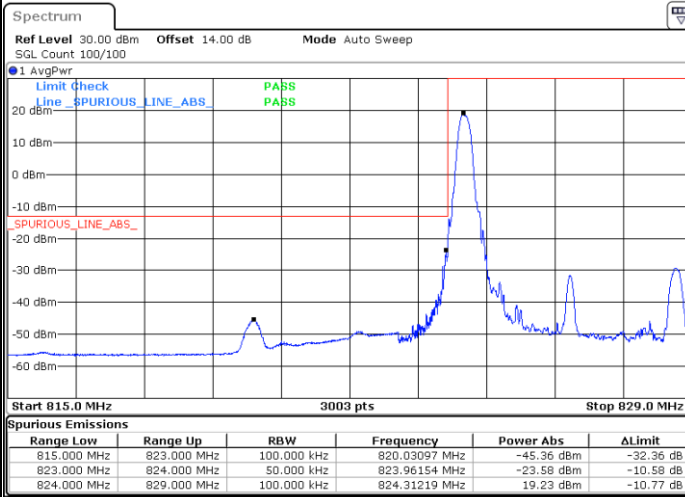


Date: 3.NOV.2023 15:49:53



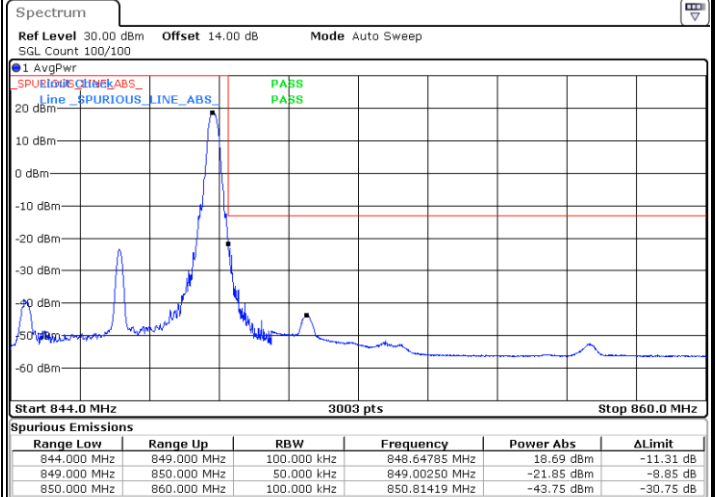
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



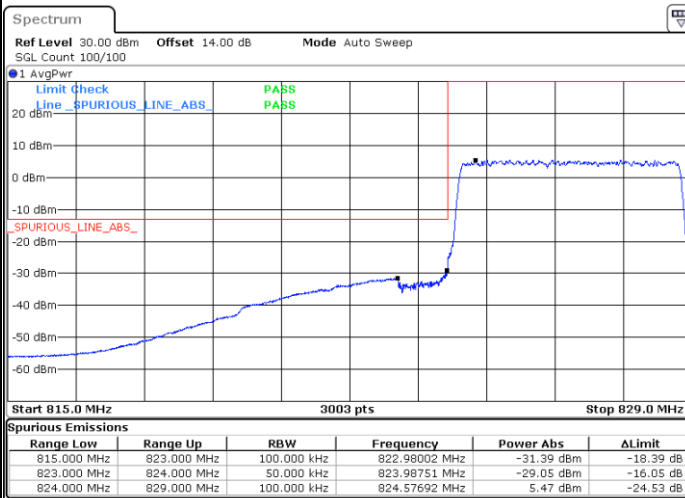
Date: 3.NOV.2023 15:46:10

Highest Band Edge / 1 RB



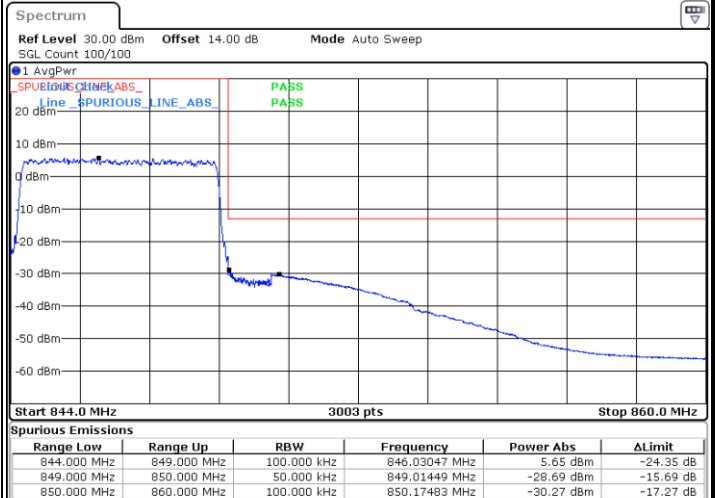
Date: 3.NOV.2023 15:51:55

Lowest Band Edge / Full RB



Date: 3.NOV.2023 15:47:06

Highest Band Edge / Full RB

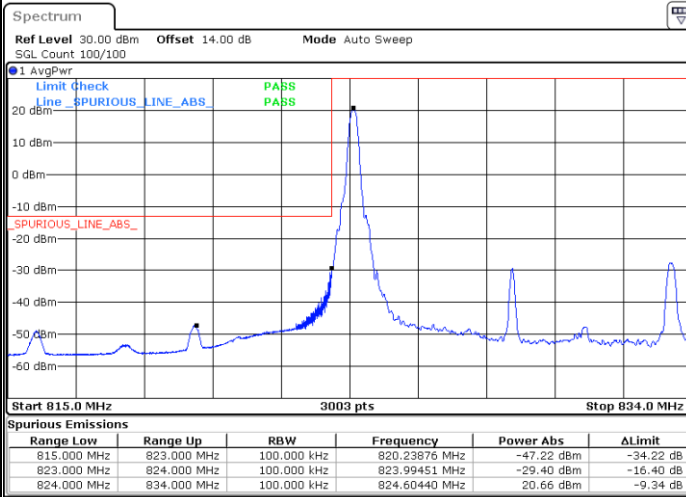


Date: 3.NOV.2023 15:50:47



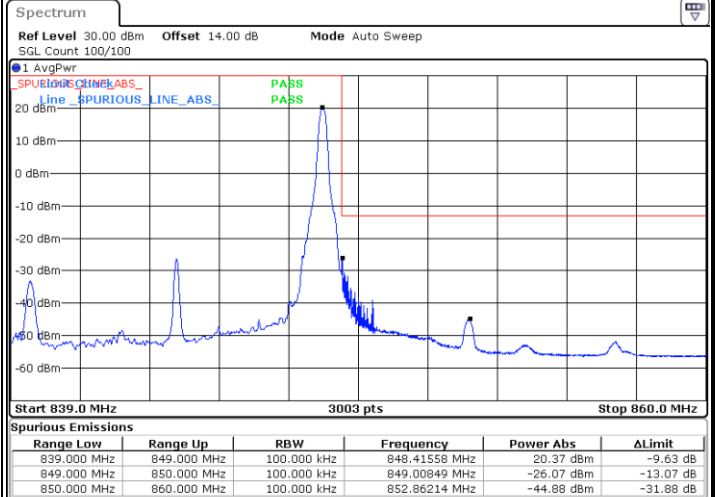
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1RB



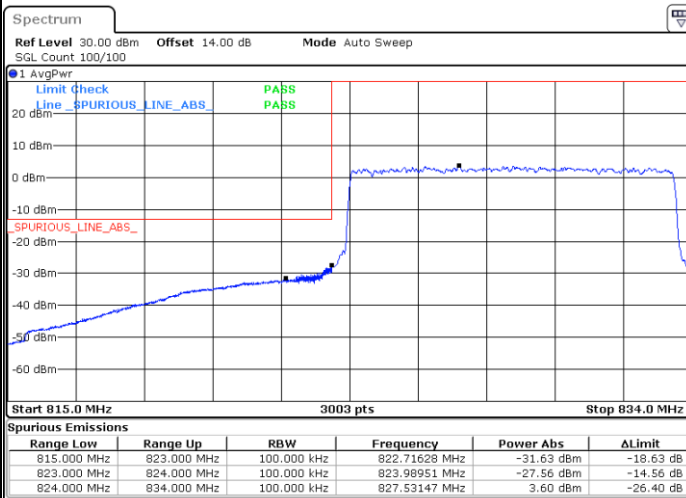
Date: 3.NOV.2023 15:58:25

Highest Band Edge / 1RB



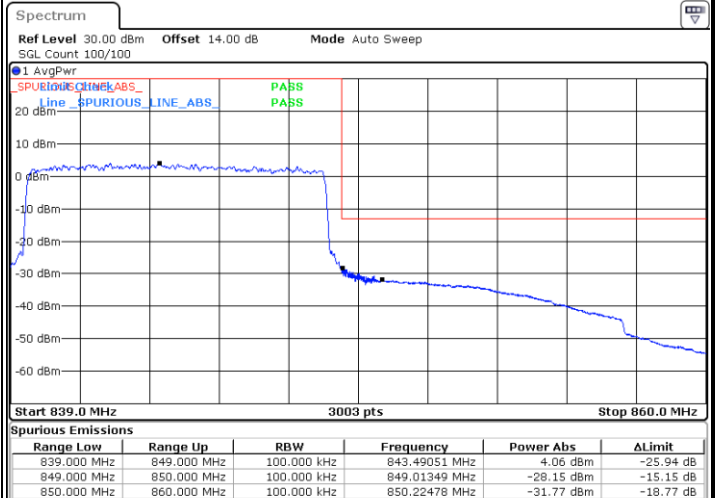
Date: 3.NOV.2023 16:05:30

Lowest Band Edge / Full RB



Date: 3.NOV.2023 16:01:26

Highest Band Edge / Full RB

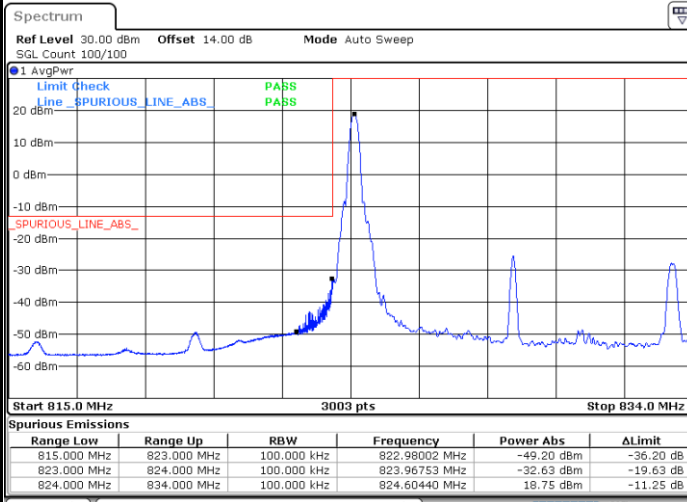


Date: 3.NOV.2023 16:02:24

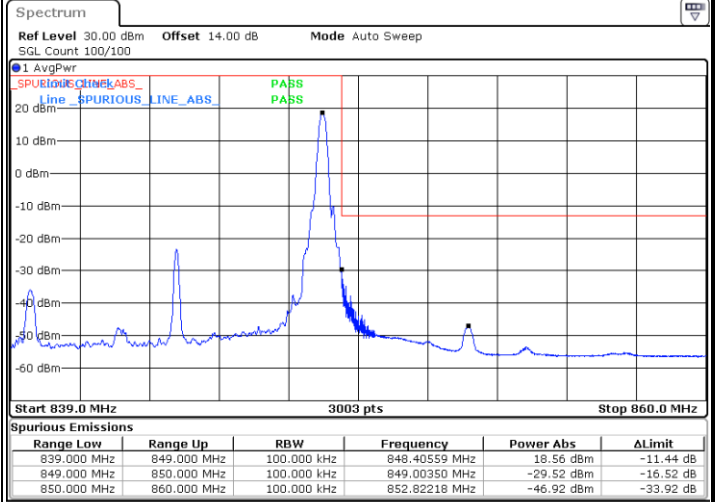


LTE Band 5 / 10MHz / 16QAM

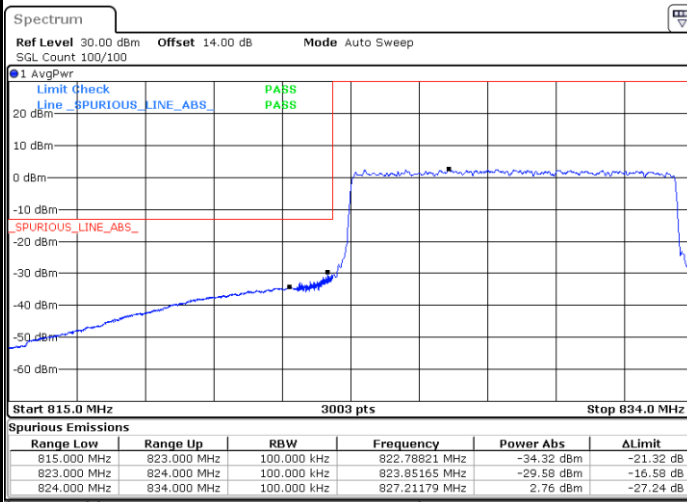
Lowest Band Edge / 1 RB



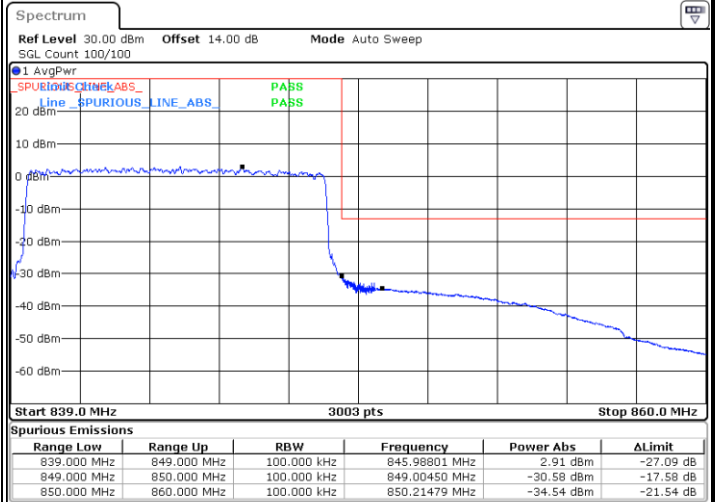
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



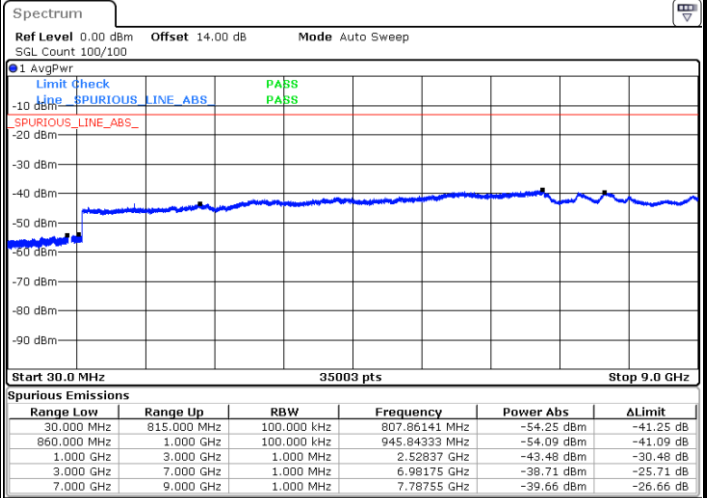
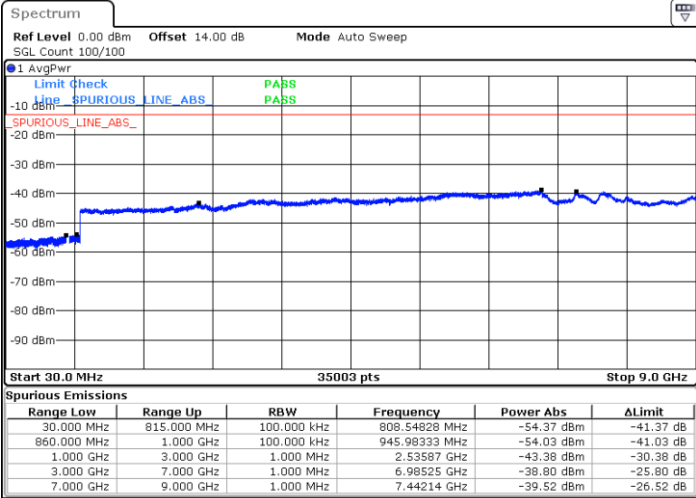


Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

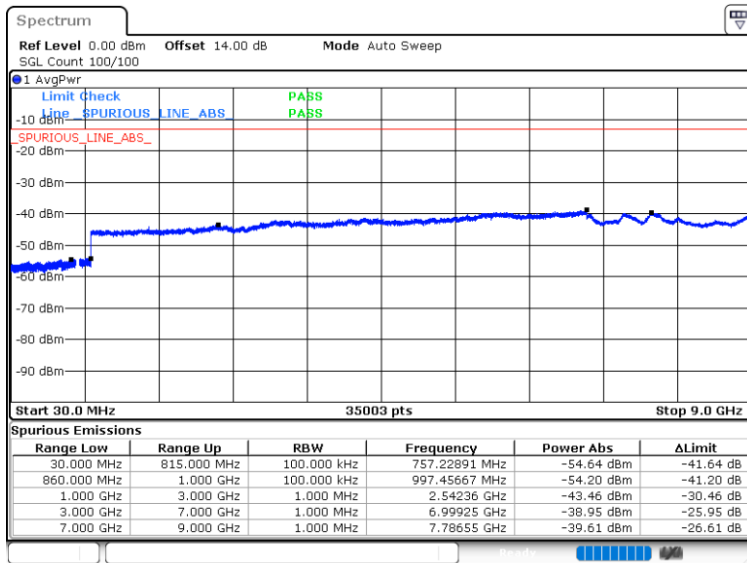
Middle Channel / QPSK



Date: 3.NOV.2023 14:57:39

Date: 3.NOV.2023 15:22:56

Highest Channel / QPSK



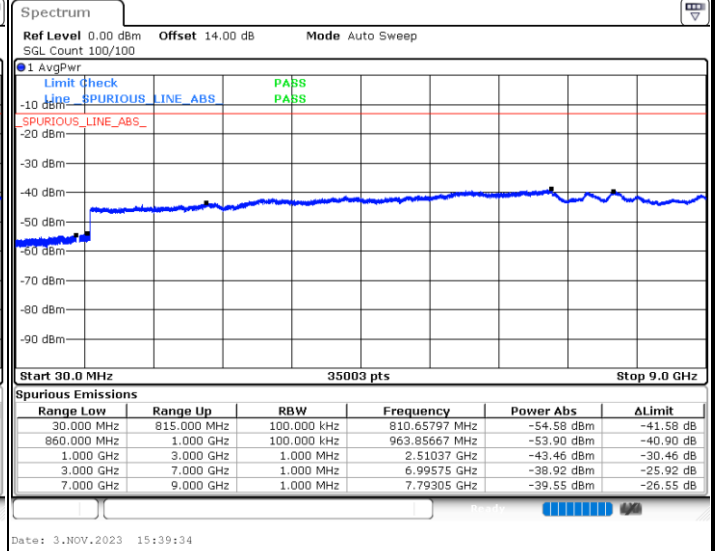
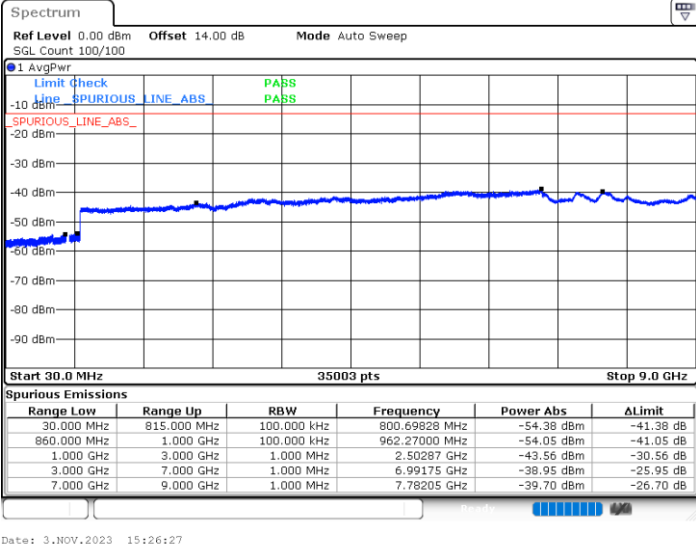
Date: 3.NOV.2023 15:21:46



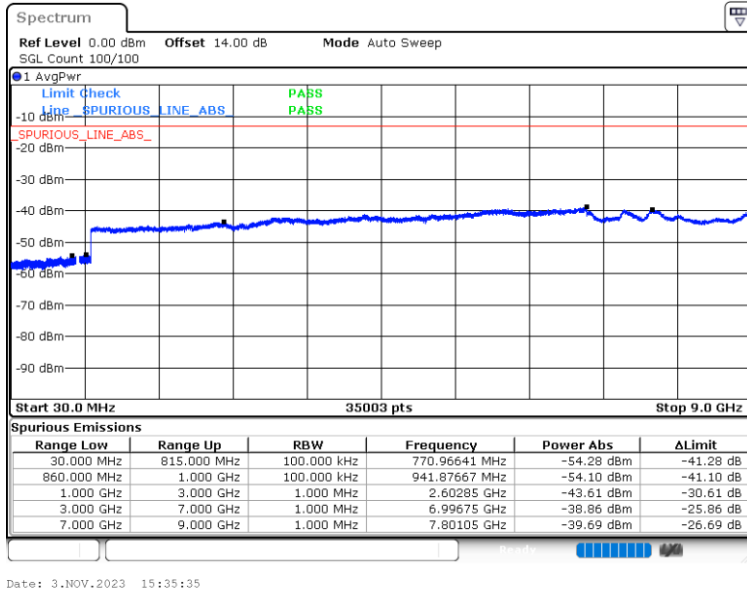
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

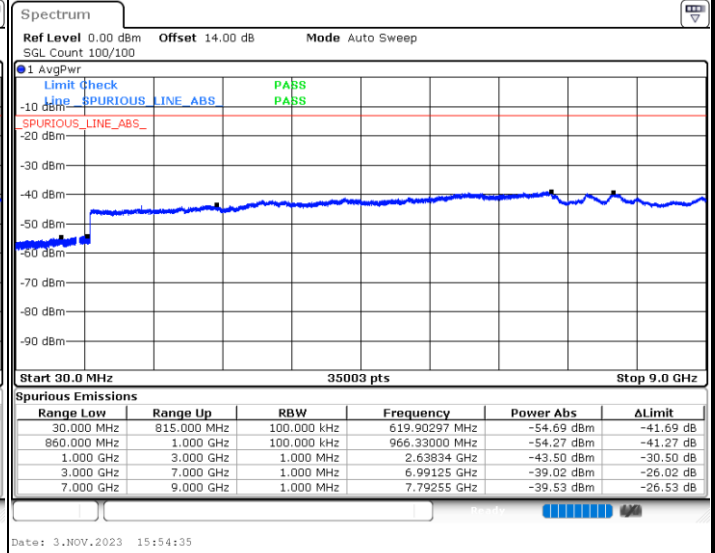
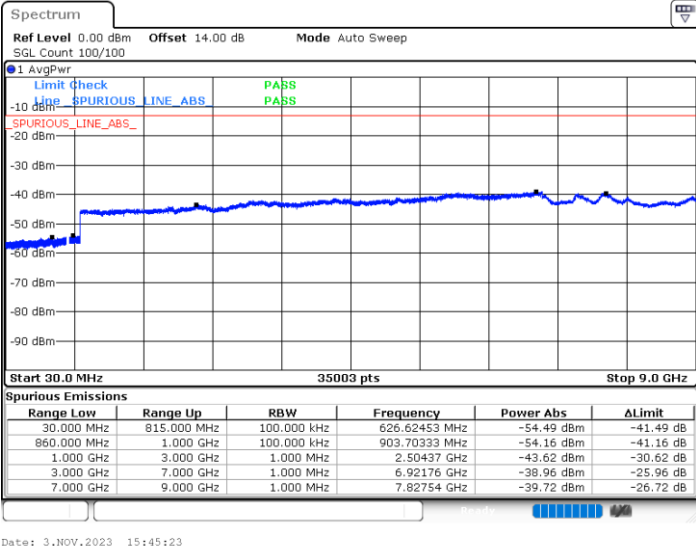




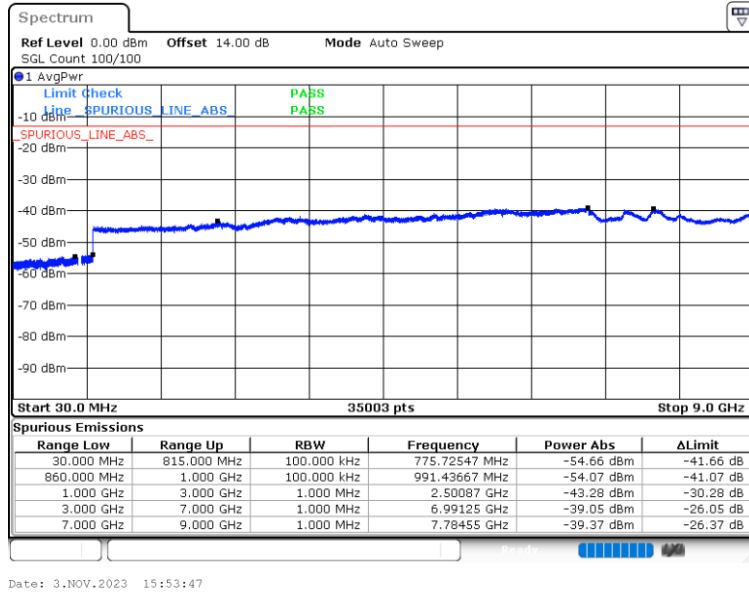
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

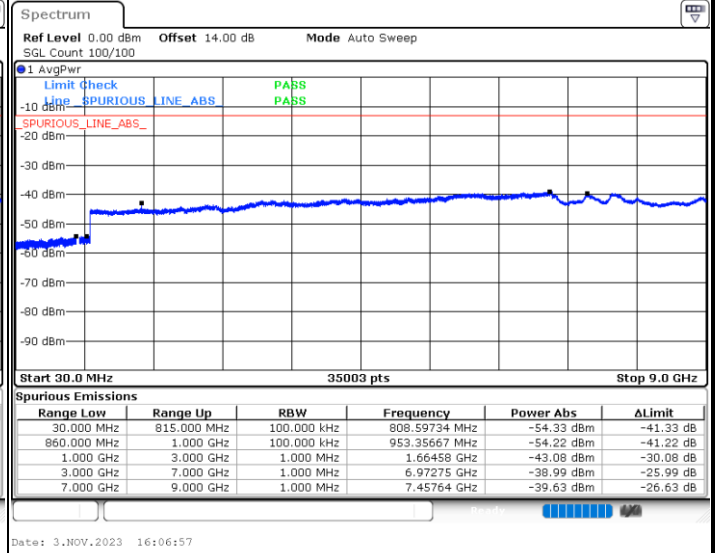
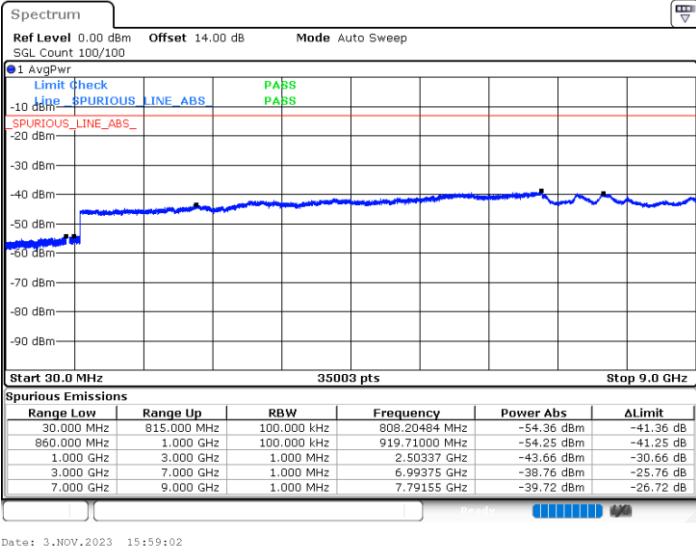




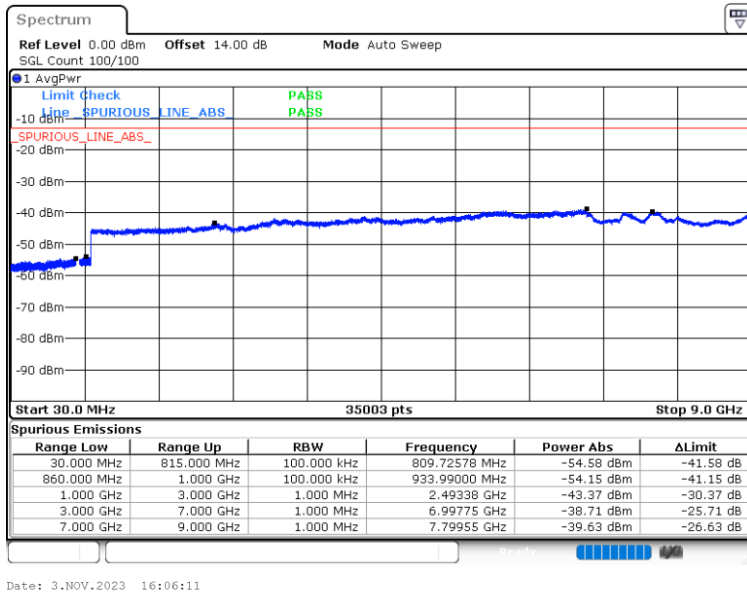
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0038	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

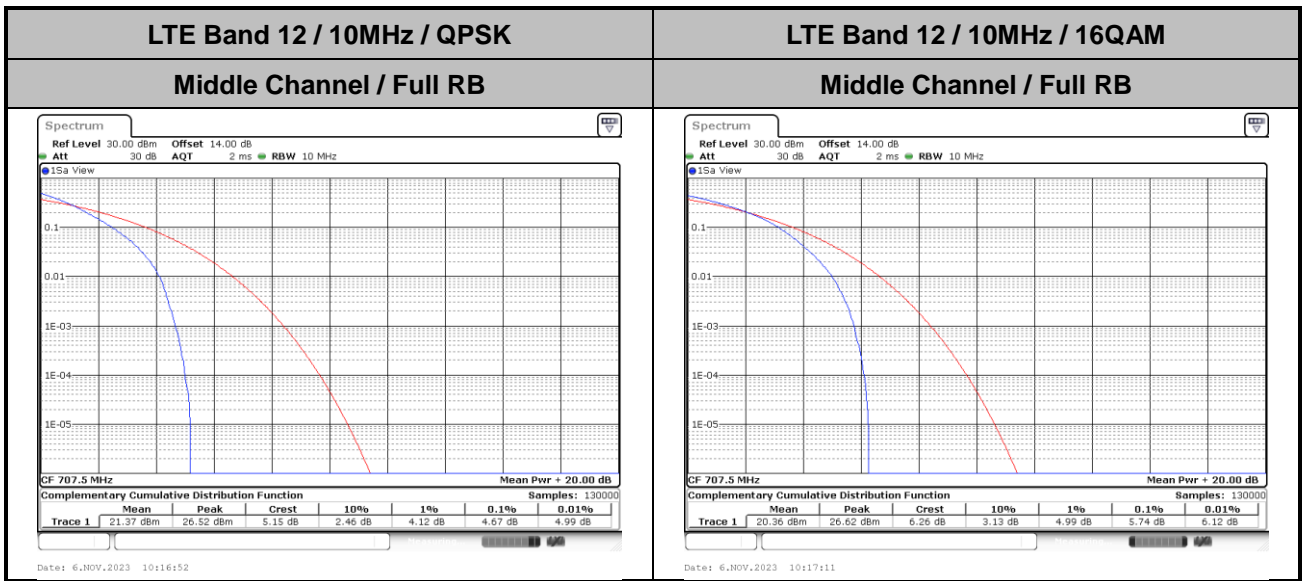
Note: Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.35 V.



LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	-	Limit: 13dB
RB Size	Full RB	Full RB	-	Result
Middle CH	4.67	5.74	-	PASS





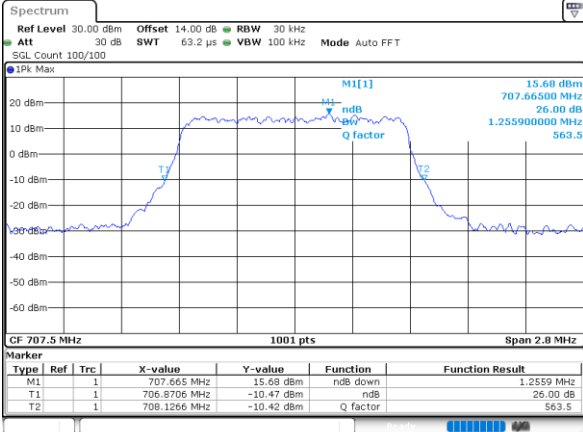
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Middle CH	1.26	1.29	3.00	3.01	4.90	4.84	9.63	9.65				



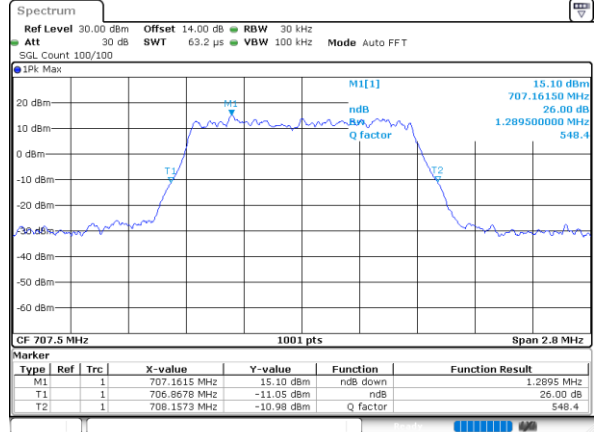
LTE Band 12

Middle Channel / 1.4MHz / QPSK



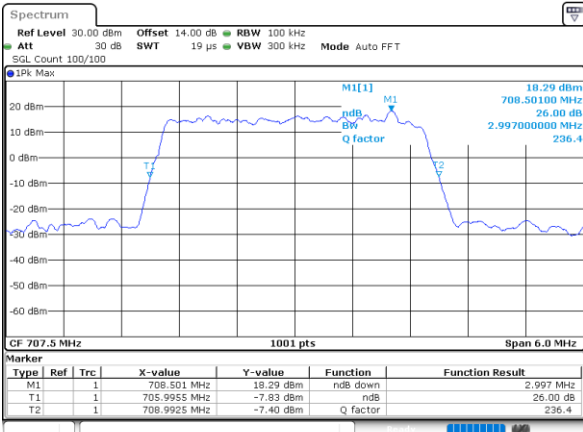
Date: 6.NOV.2023 08:51:28

Middle Channel / 1.4MHz / 16QAM



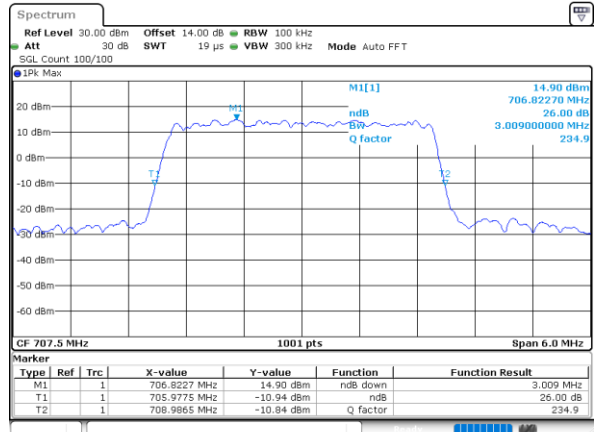
Date: 6.NOV.2023 08:52:05

Middle Channel / 3MHz / QPSK



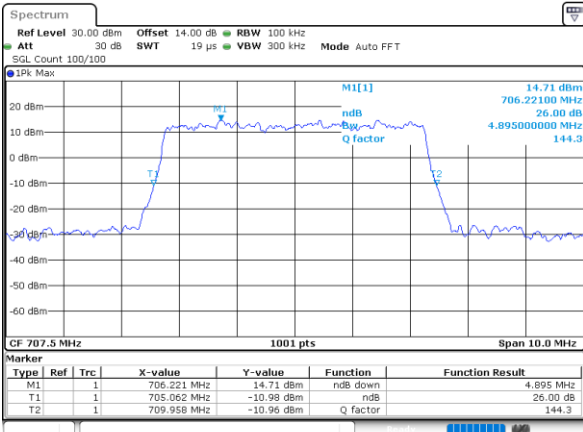
Date: 6.NOV.2023 09:05:02

Middle Channel / 3MHz / 16QAM



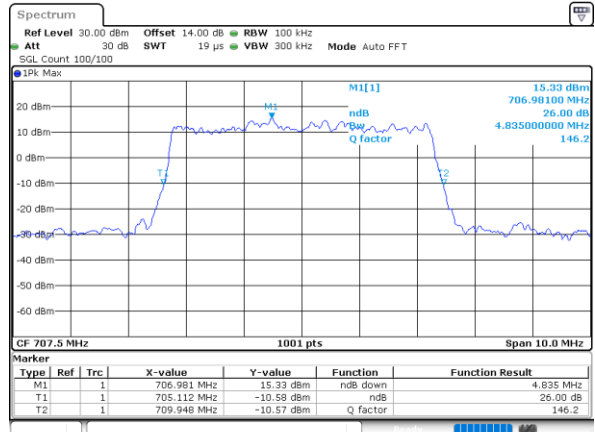
Date: 6.NOV.2023 09:05:52

Middle Channel / 5MHz / QPSK



Date: 6.NOV.2023 09:32:50

Middle Channel / 5MHz / 16QAM

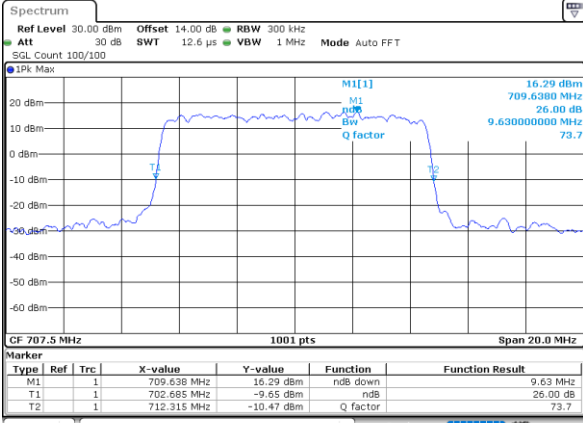


Date: 6.NOV.2023 09:39:18



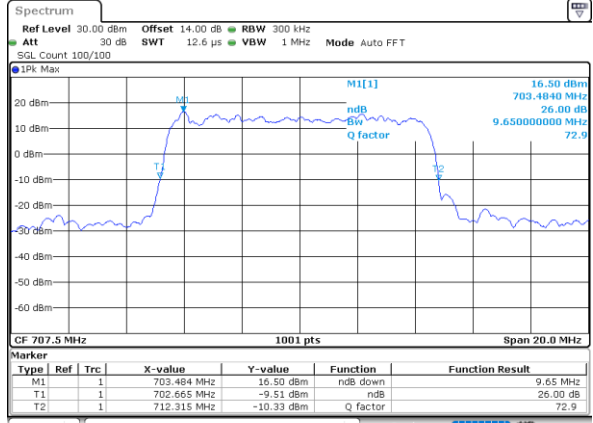
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 6.NOV.2023 10:13:45

Middle Channel / 10MHz / 16QAM



Date: 6.NOV.2023 10:14:22



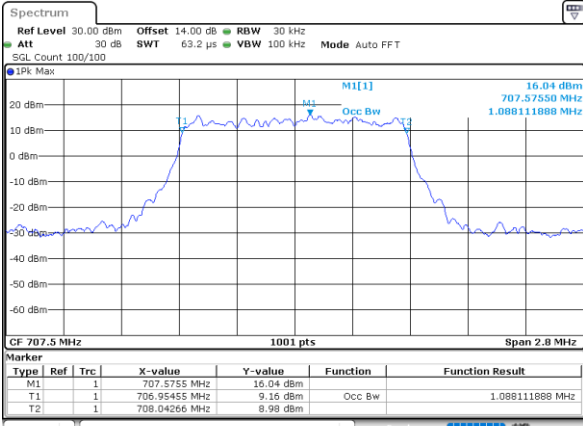
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Middle CH	1.09	1.09	2.71	2.71	4.51	4.49	8.95	8.97				



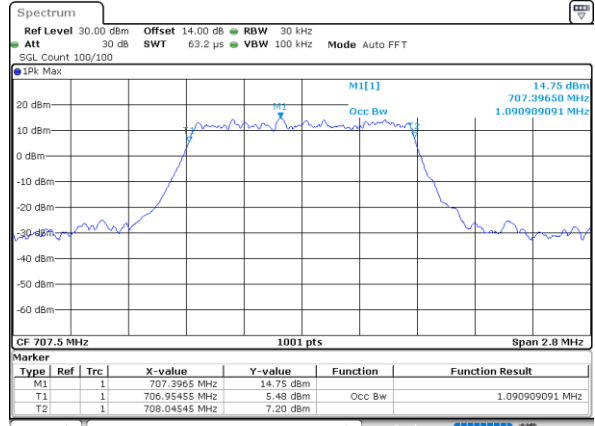
LTE Band 12

Middle Channel / 1.4MHz / QPSK



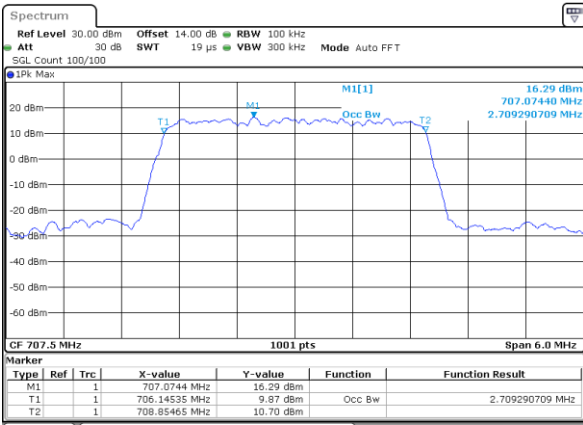
Date: 6,NOV,2023 08:51:08

Middle Channel / 1.4MHz / 16QAM



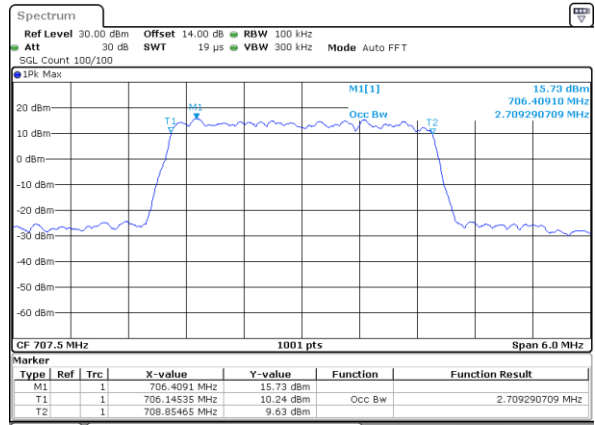
Date: 6,NOV,2023 08:51:52

Middle Channel / 3MHz / QPSK



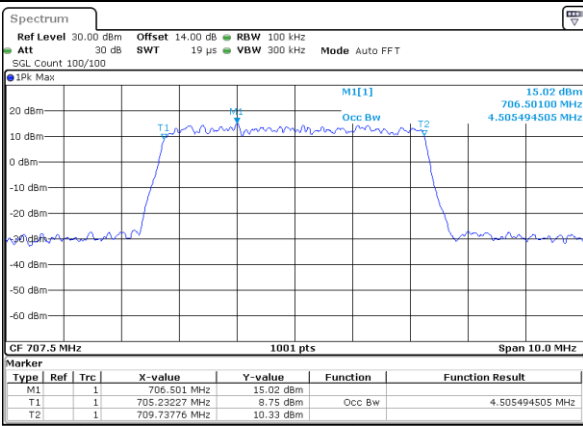
Date: 6,NOV,2023 09:04:41

Middle Channel / 3MHz / 16QAM



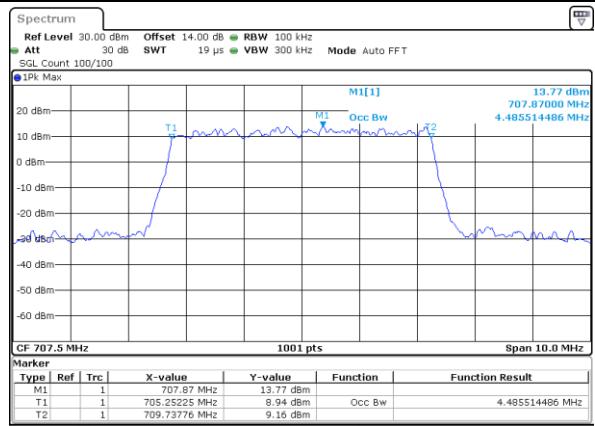
Date: 6,NOV,2023 09:05:29

Middle Channel / 5MHz / QPSK



Date: 6,NOV,2023 09:32:25

Middle Channel / 5MHz / 16QAM

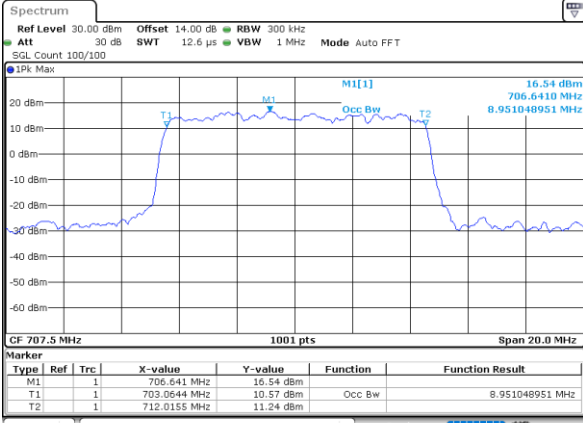


Date: 6,NOV,2023 09:39:03



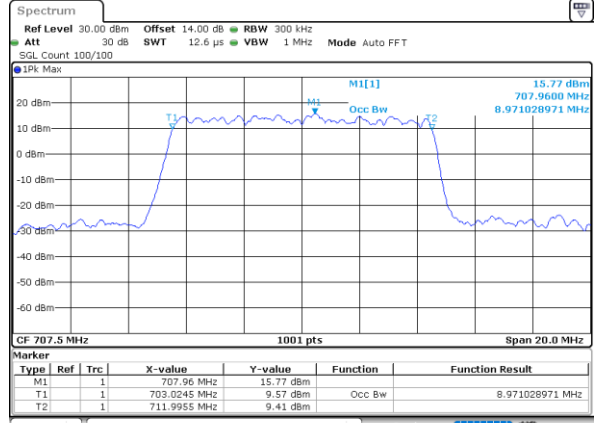
LTE Band 12

Middle Channel / 10MHz / QPSK



Date: 6.NOV.2023 10:13:27

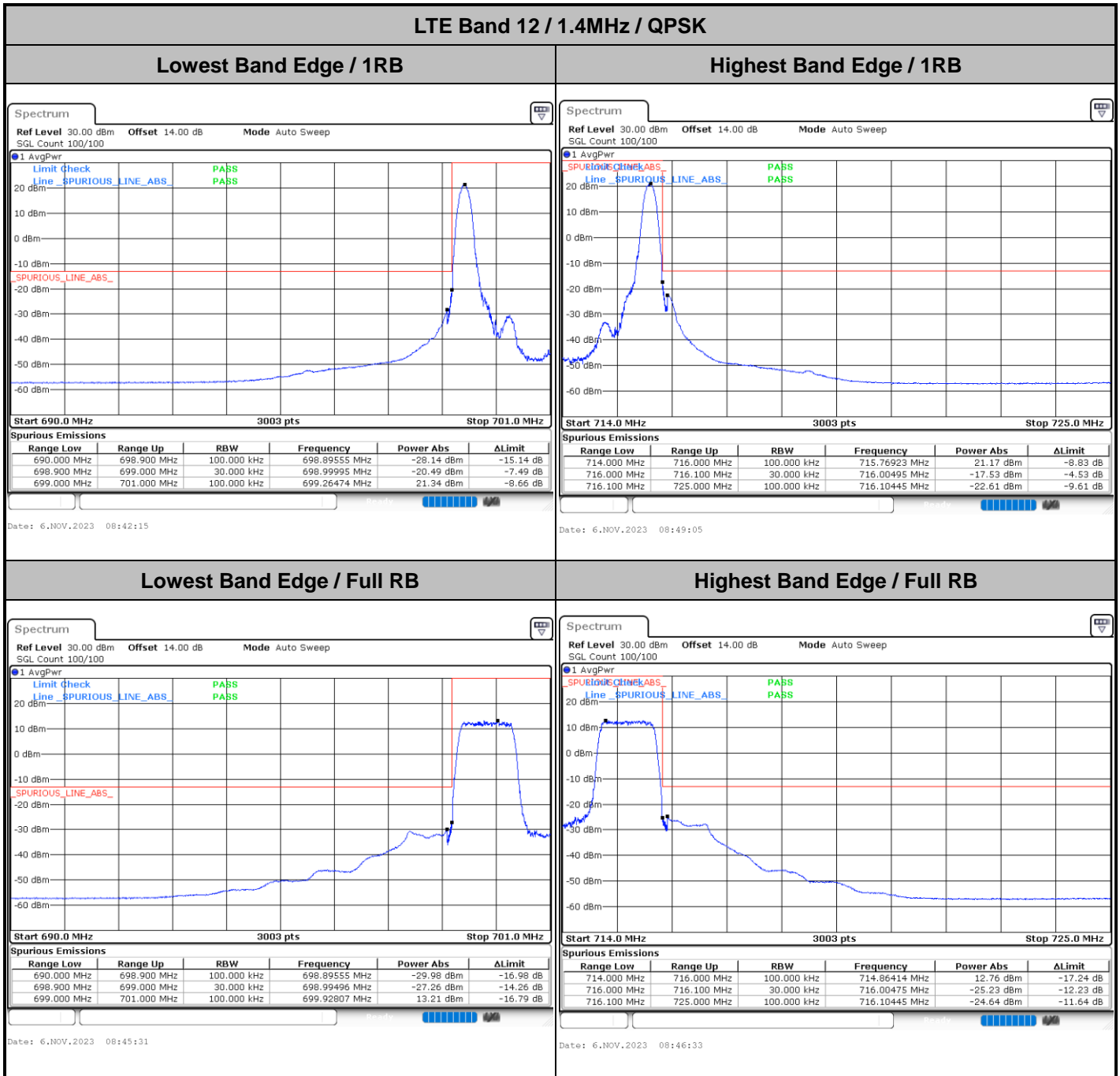
Middle Channel / 10MHz / 16QAM



Date: 6.NOV.2023 10:14:11



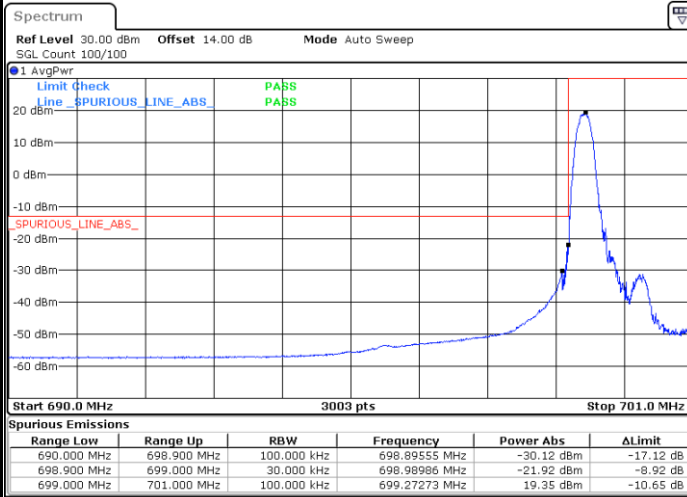
Conducted Band Edge





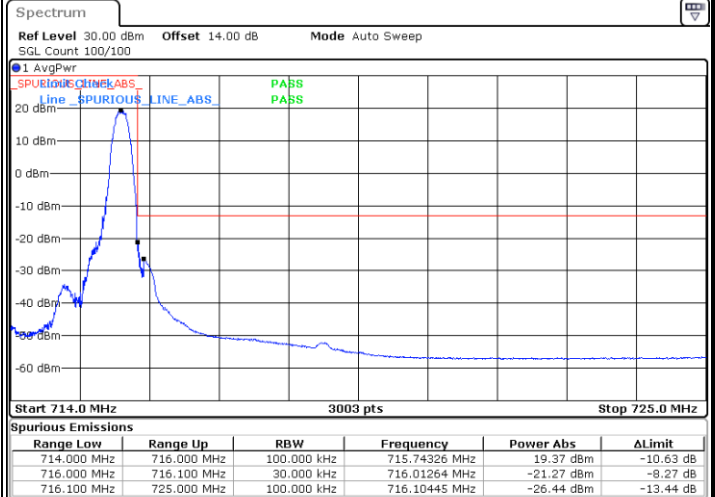
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



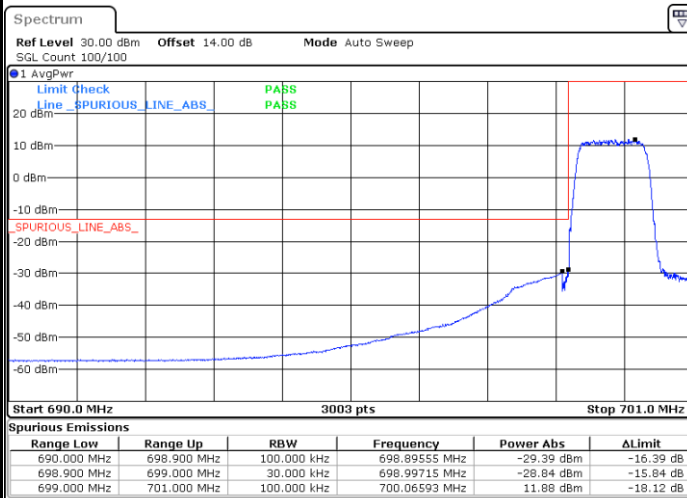
Date: 6.NOV.2023 08:43:59

Highest Band Edge / 1 RB



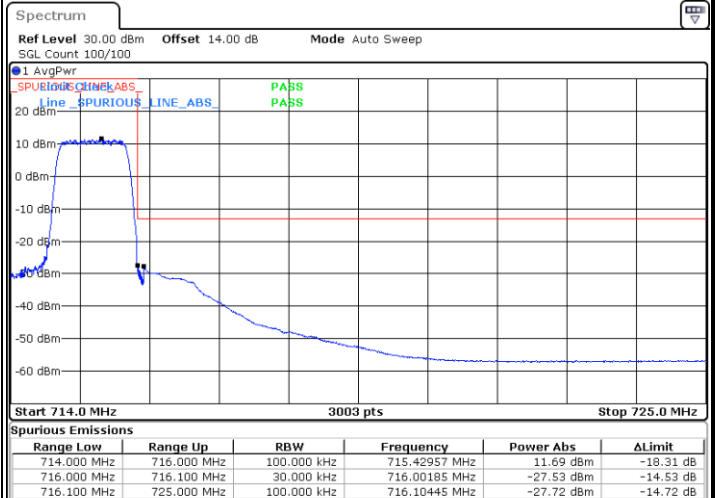
Date: 6.NOV.2023 08:48:10

Lowest Band Edge / Full RB



Date: 6.NOV.2023 08:44:47

Highest Band Edge / Full RB

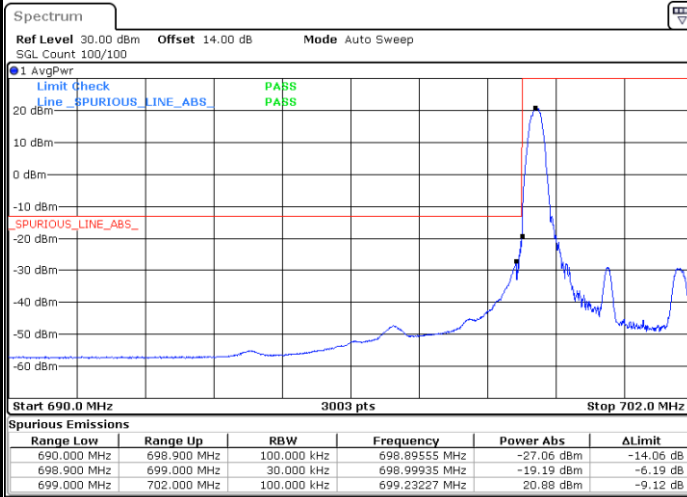


Date: 6.NOV.2023 08:47:18



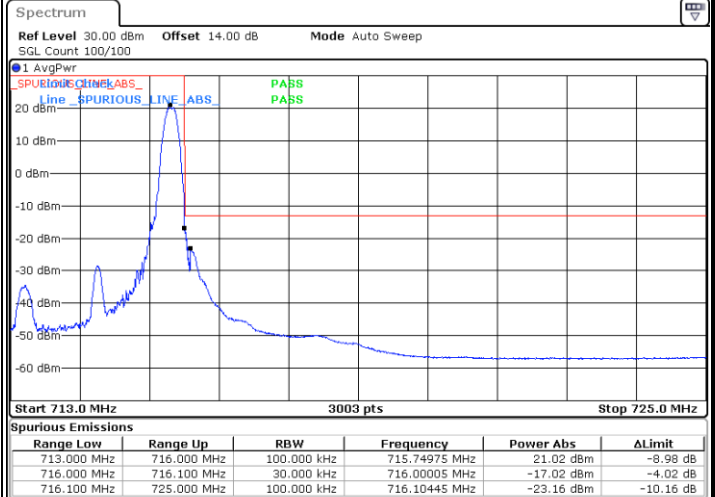
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



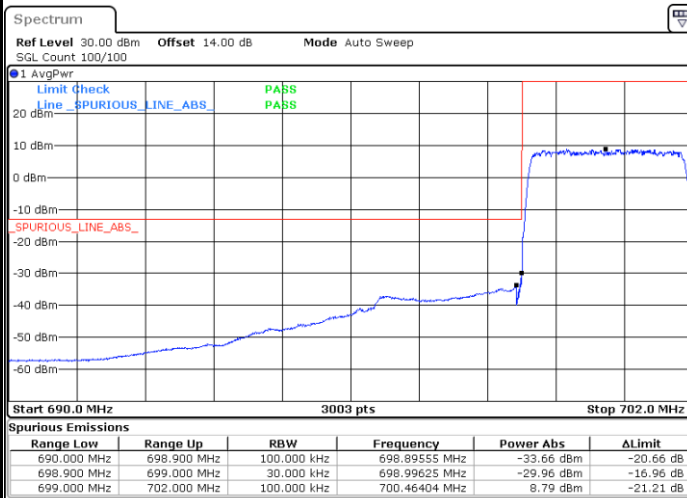
Date: 6.NOV.2023 08:54:08

Highest Band Edge / 1RB



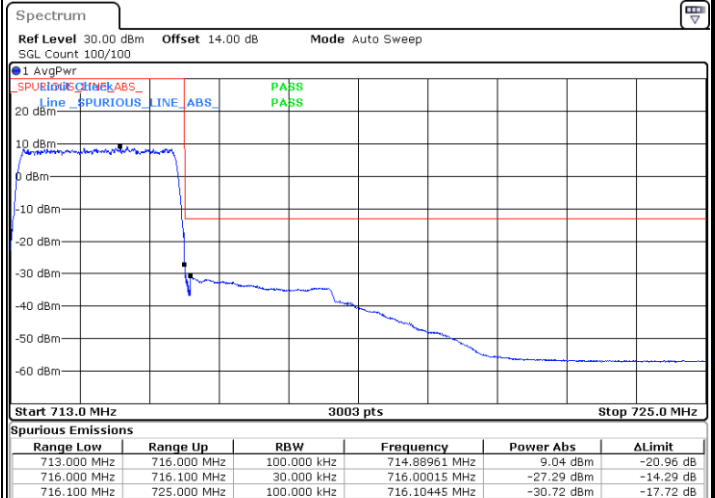
Date: 6.NOV.2023 09:02:03

Lowest Band Edge / Full RB



Date: 6.NOV.2023 08:58:03

Highest Band Edge / Full RB

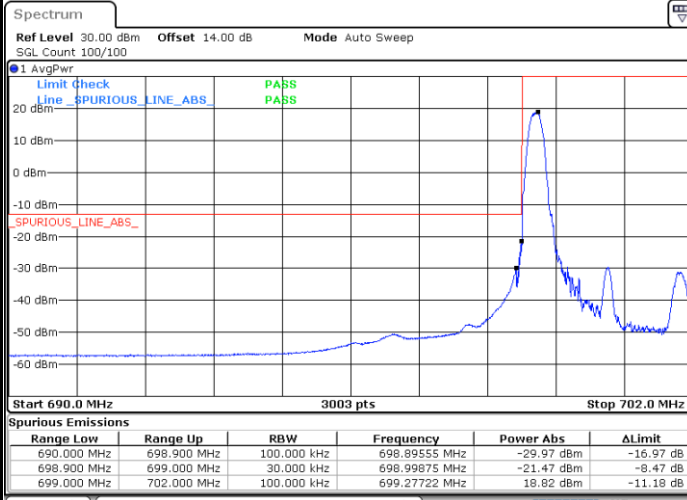


Date: 6.NOV.2023 08:59:10



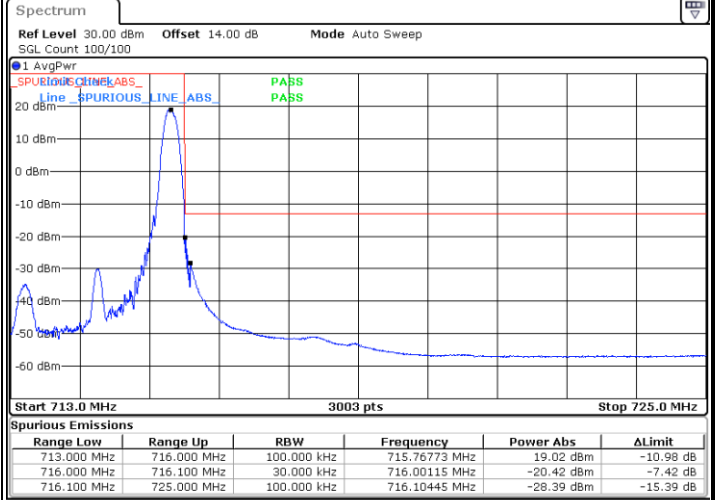
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



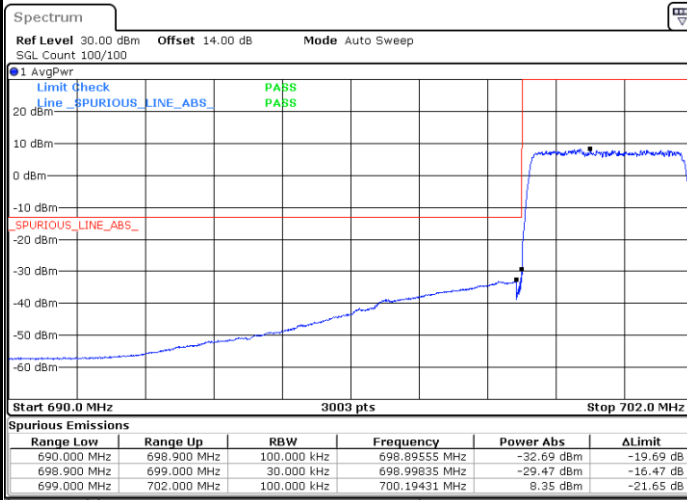
Date: 6.NOV.2023 08:55:59

Highest Band Edge / 1 RB



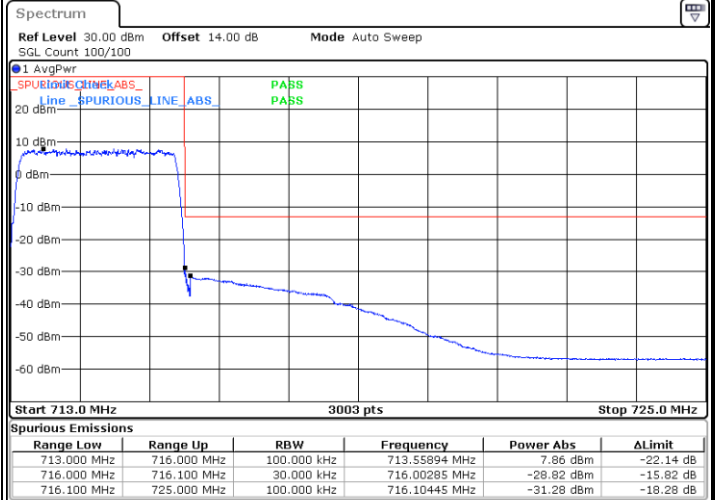
Date: 6.NOV.2023 09:01:19

Lowest Band Edge / Full RB



Date: 6.NOV.2023 08:57:12

Highest Band Edge / Full RB

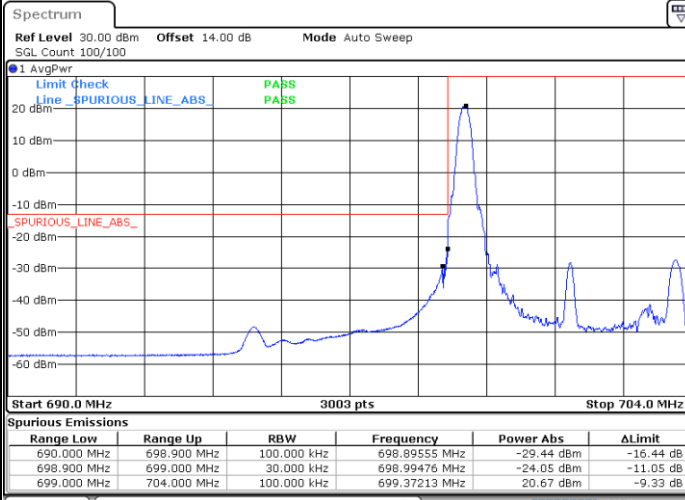


Date: 6.NOV.2023 09:00:02



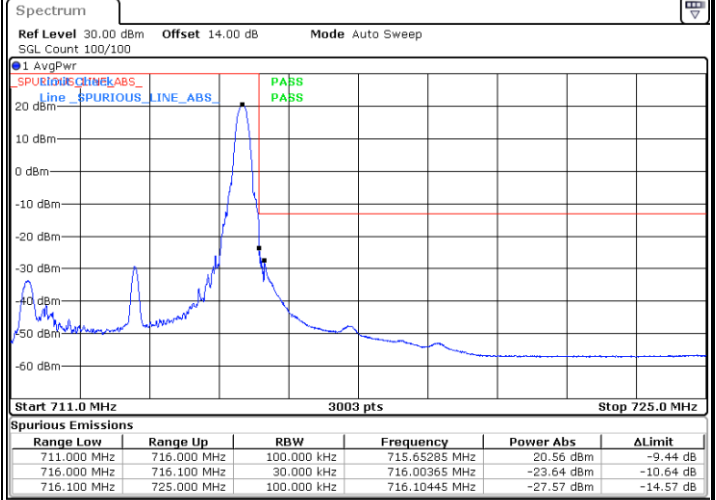
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1RB



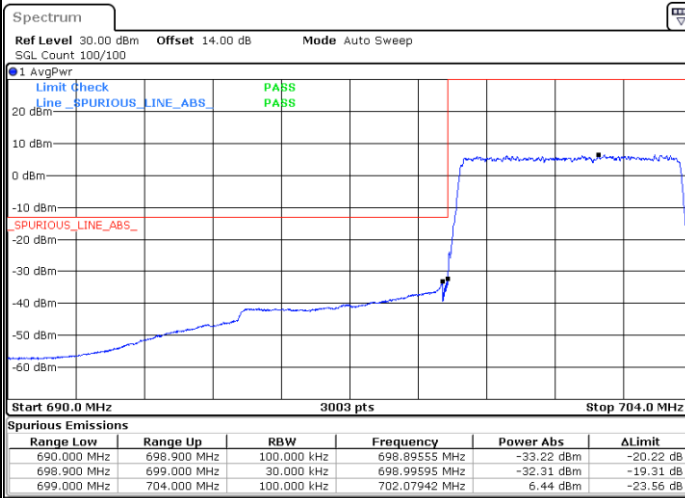
Date: 6.NOV.2023 09:07:54

Highest Band Edge / 1RB



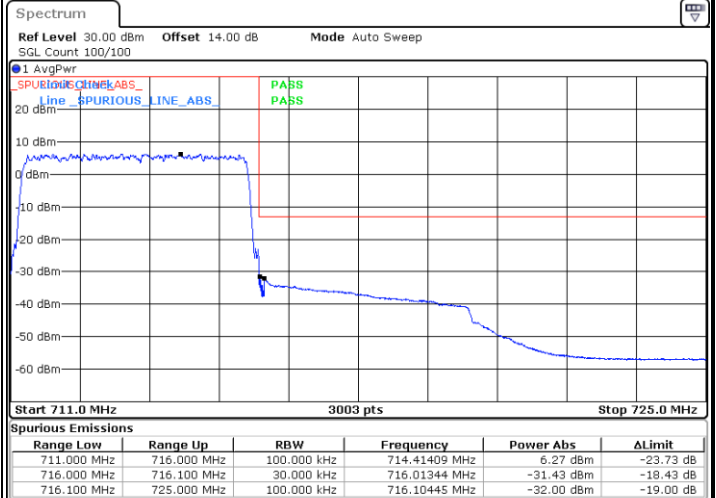
Date: 6.NOV.2023 09:30:04

Lowest Band Edge / Full RB



Date: 6.NOV.2023 09:20:46

Highest Band Edge / Full RB

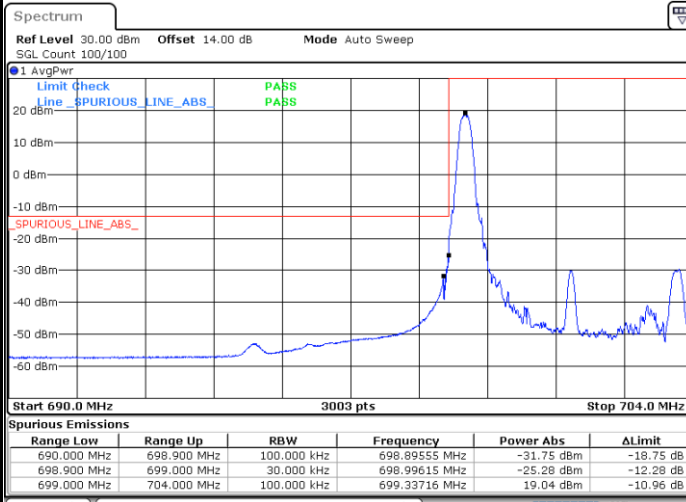


Date: 6.NOV.2023 09:22:50



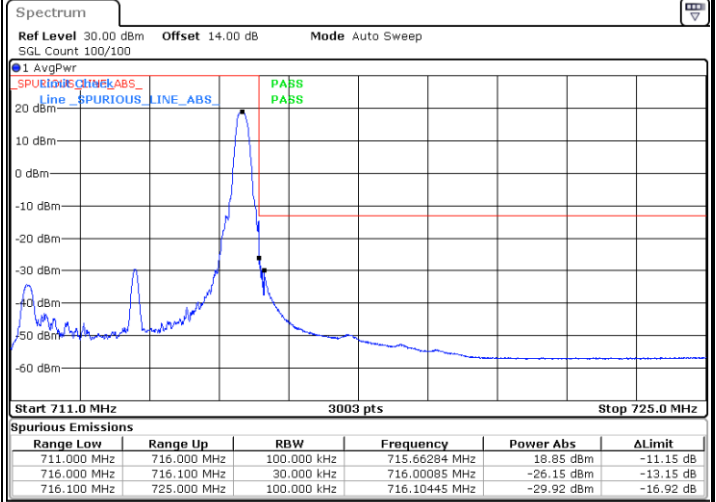
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



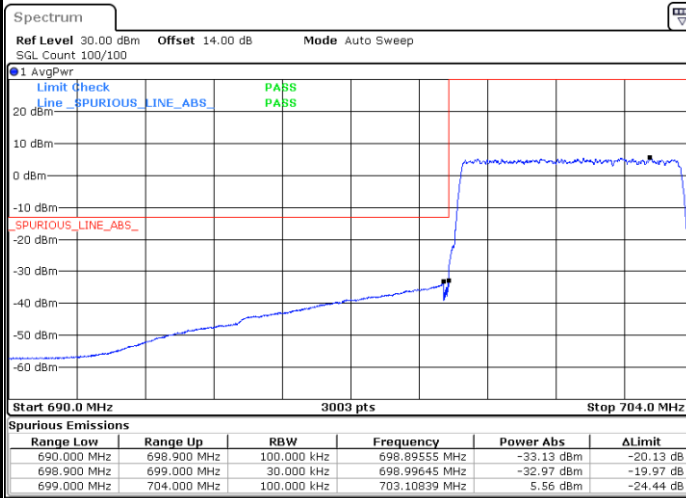
Date: 6.NOV.2023 09:18:56

Highest Band Edge / 1 RB



Date: 6.NOV.2023 09:29:14

Lowest Band Edge / Full RB



Date: 6.NOV.2023 09:20:02

Highest Band Edge / Full RB

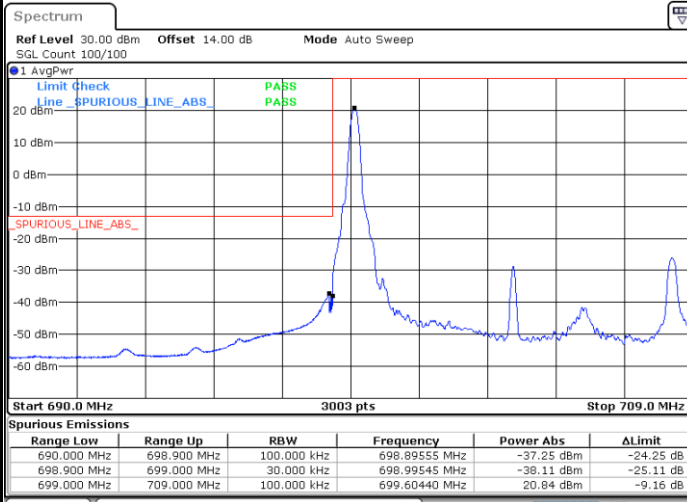


Date: 6.NOV.2023 09:23:49



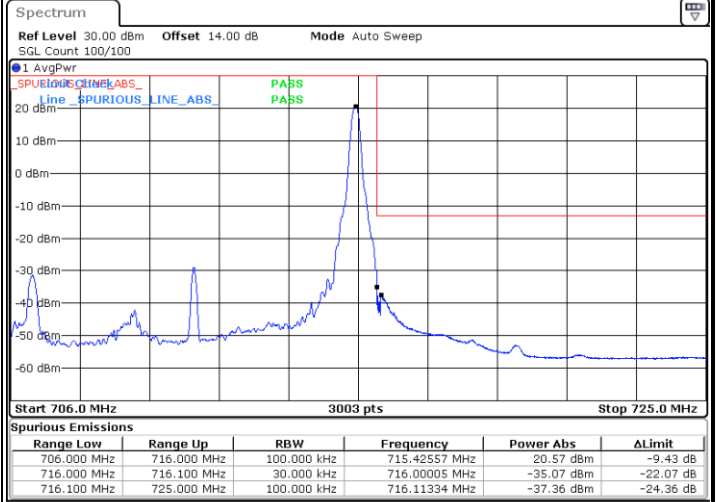
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1RB



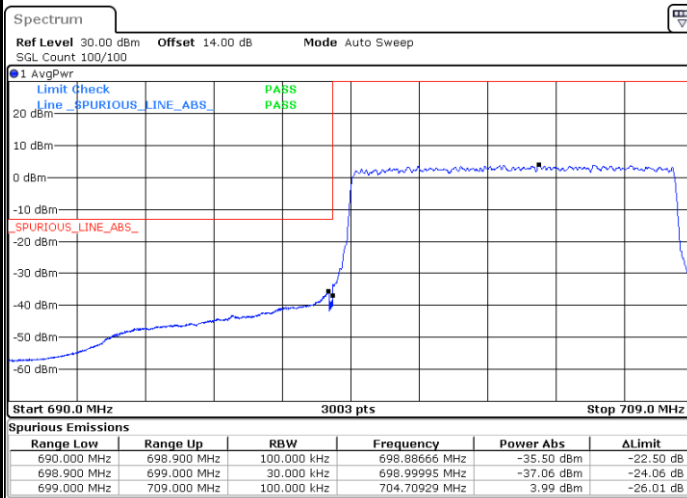
Date: 6.NOV.2023 09:40:41

Highest Band Edge / 1RB



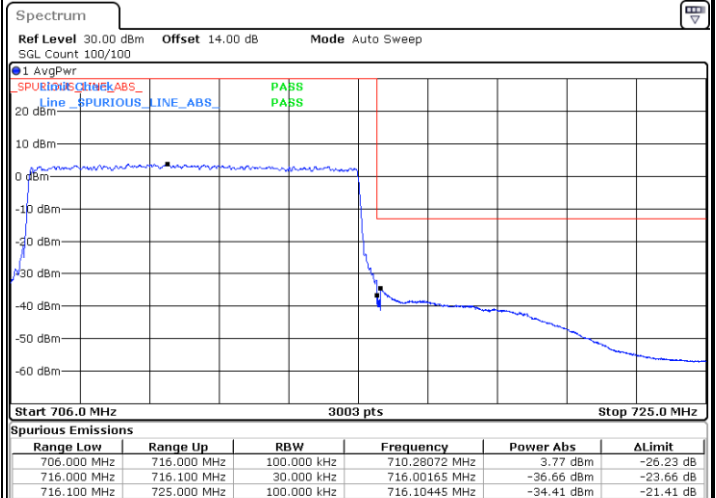
Date: 6.NOV.2023 09:48:07

Lowest Band Edge / Full RB



Date: 6.NOV.2023 09:44:05

Highest Band Edge / Full RB



Date: 6.NOV.2023 09:45:01