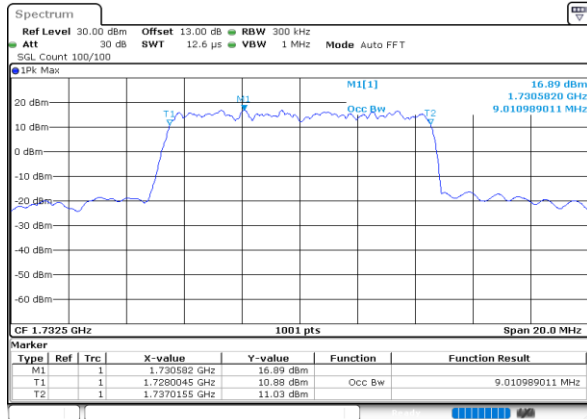


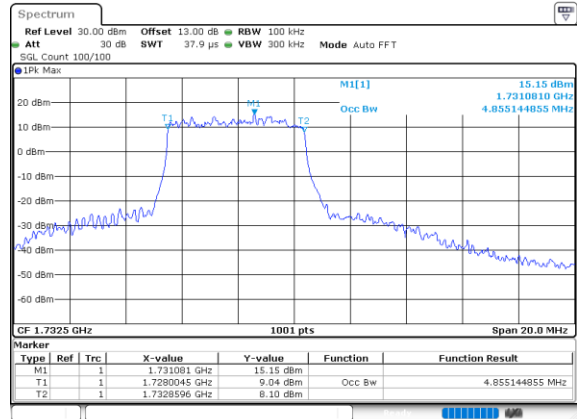


LTE Band 4

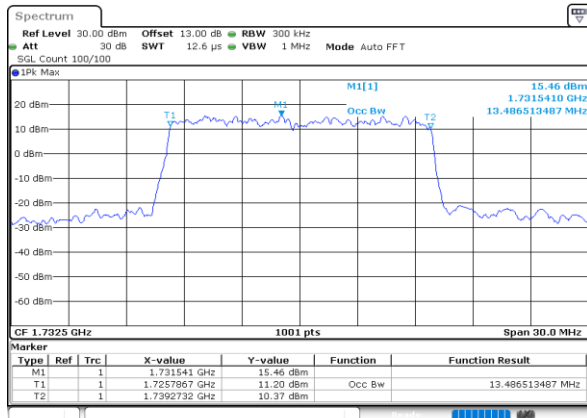
Middle Channel / 10MHz / QPSK



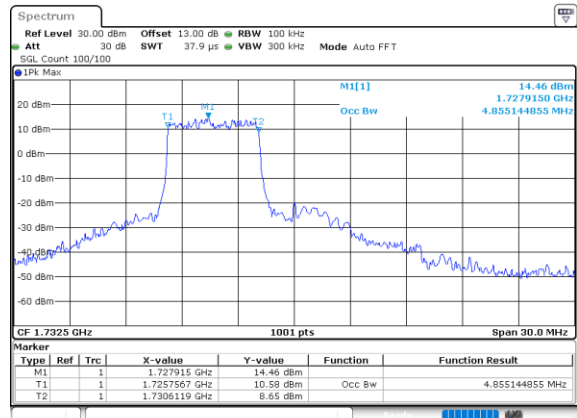
Middle Channel / 10MHz / 16QAM



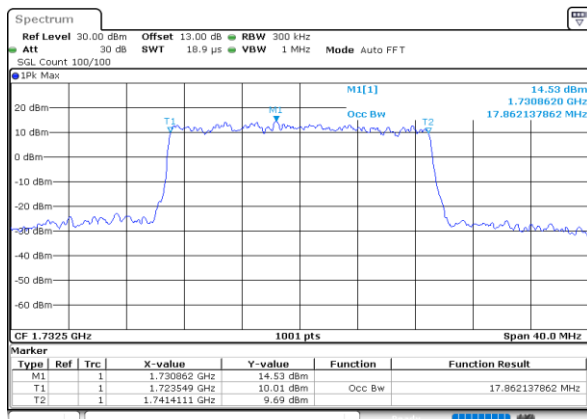
Middle Channel / 15MHz / QPSK



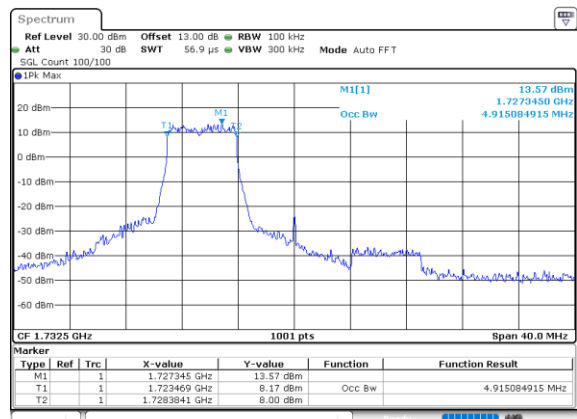
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

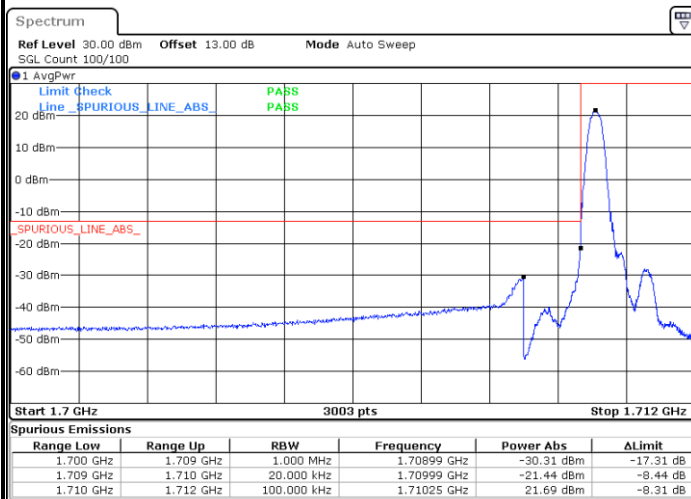




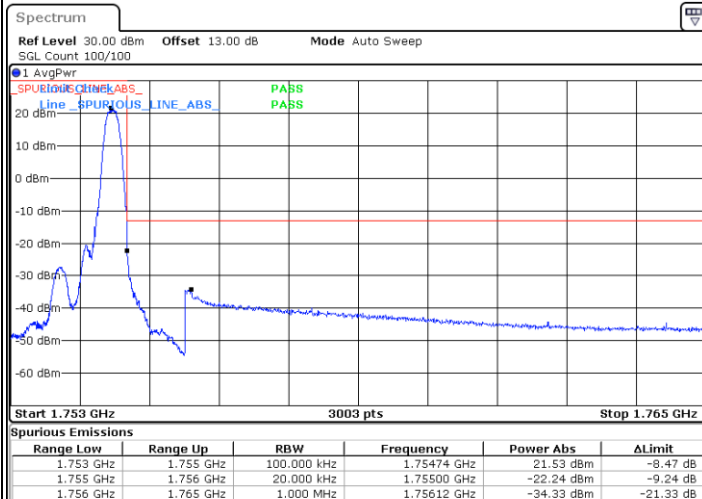
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

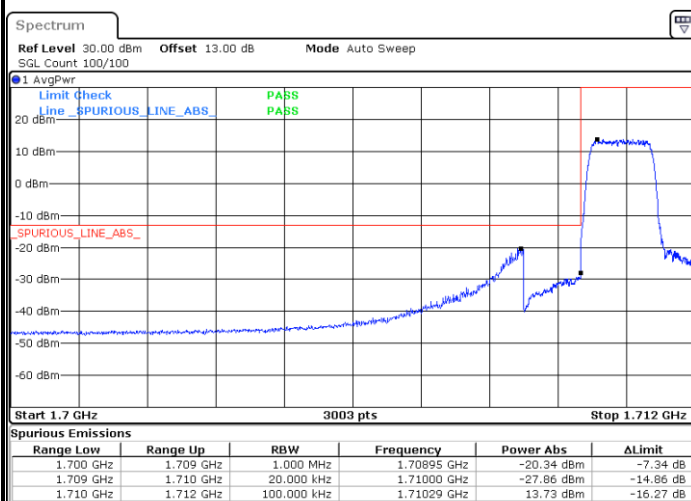
Lowest Band Edge / 1RB



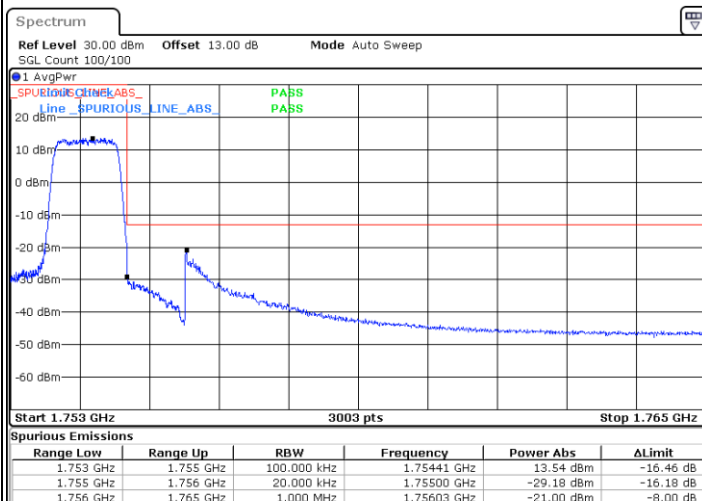
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



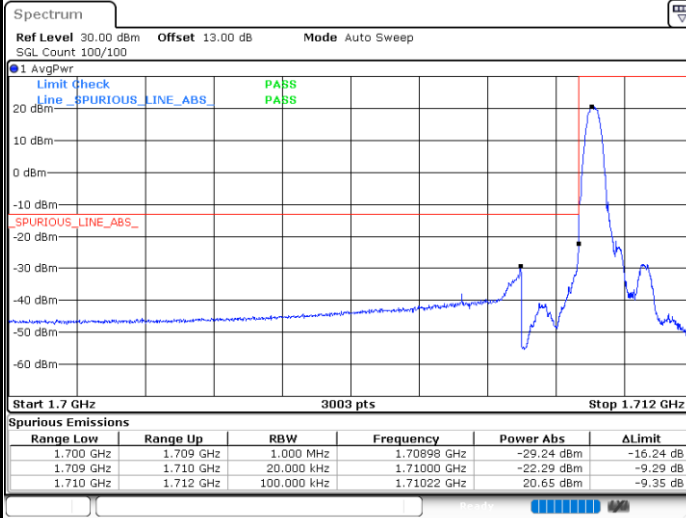
Highest Band Edge / Full RB



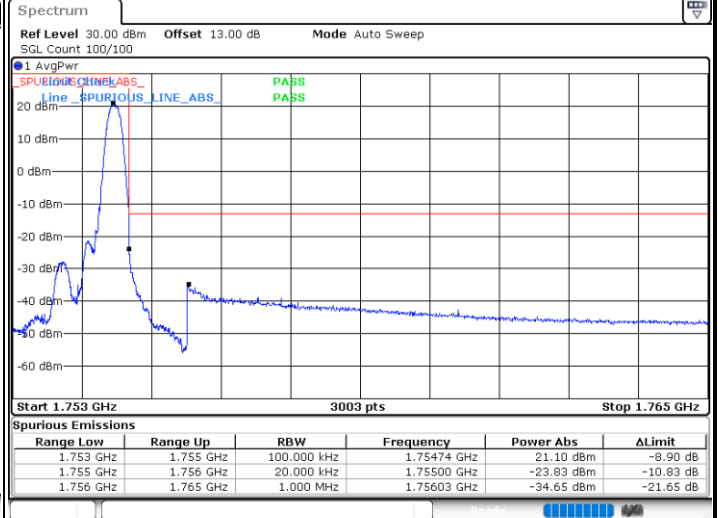


LTE Band 4 / 1.4MHz / 16QAM

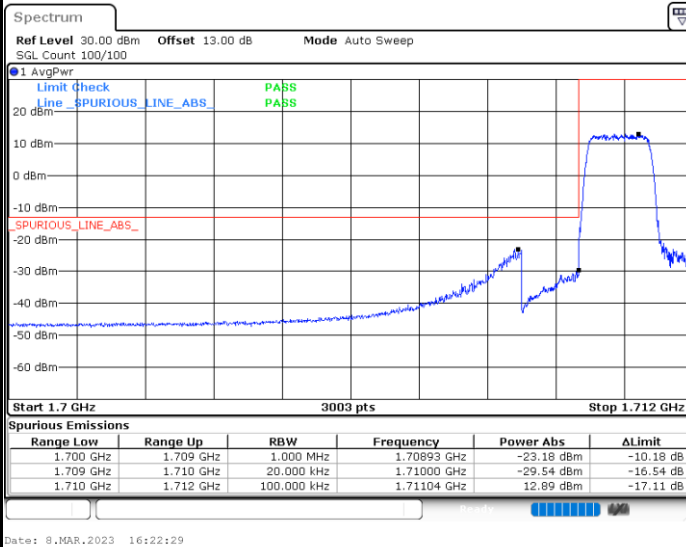
Lowest Band Edge / 1 RB



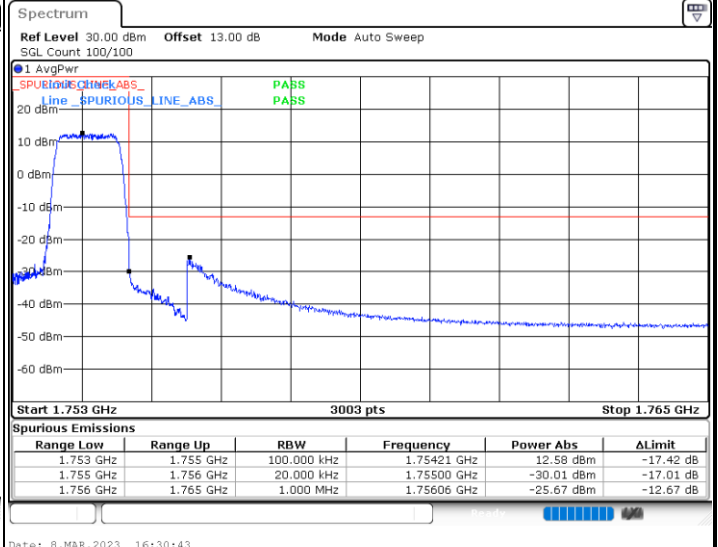
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



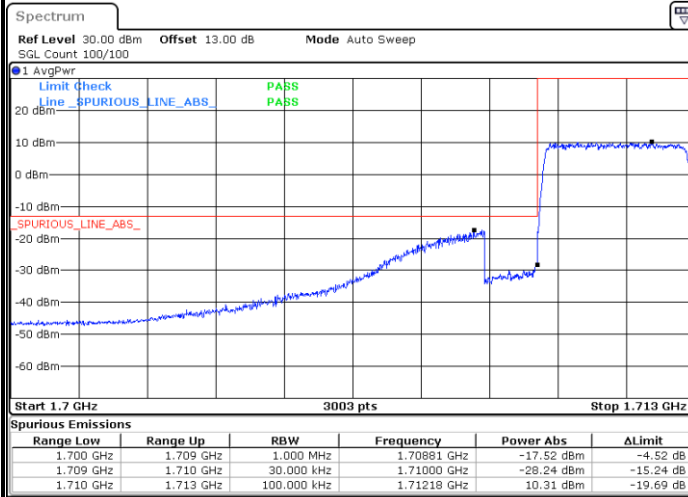
Highest Band Edge / Full RB



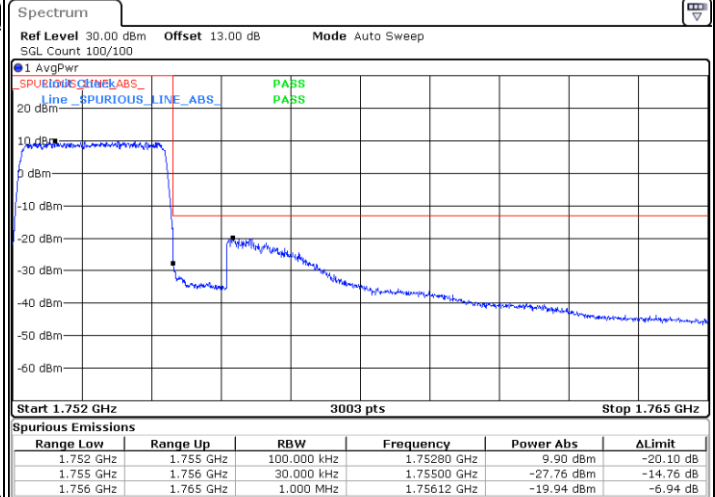


LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / Full RB

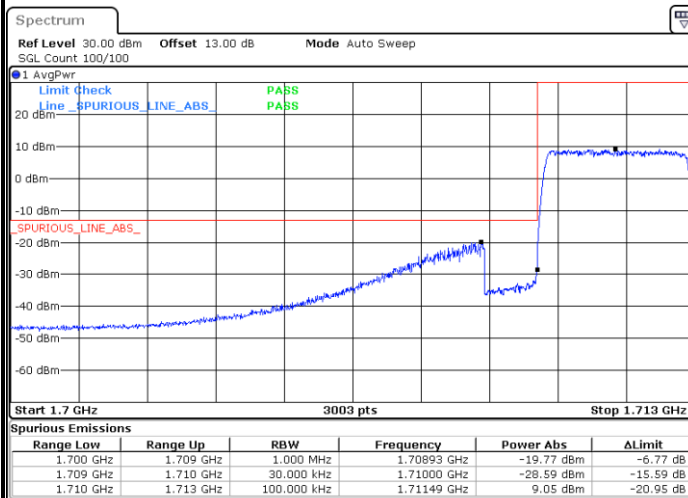


Highest Band Edge / Full RB

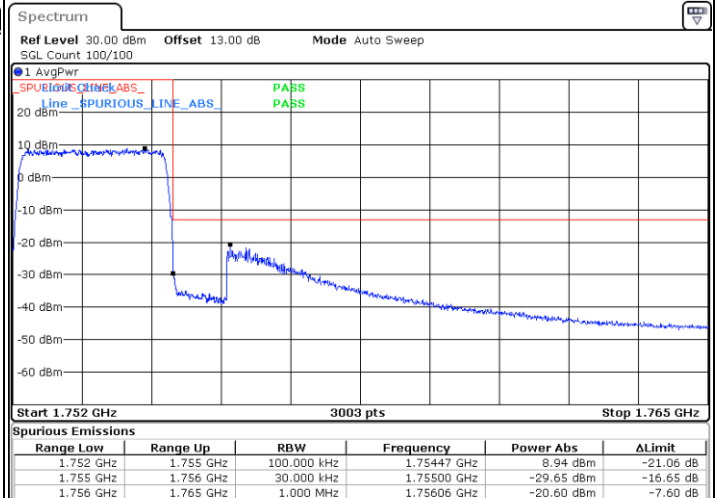


LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / Full RB



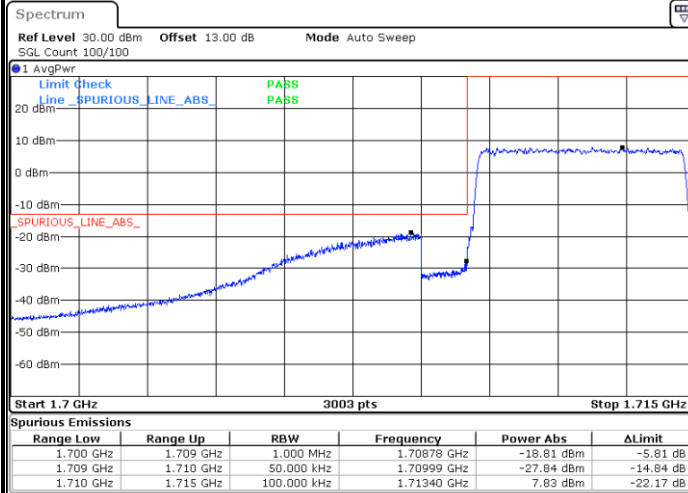
Highest Band Edge / Full RB



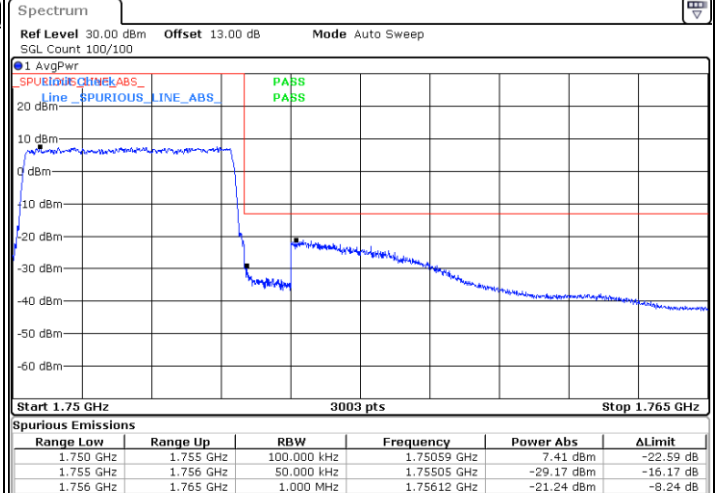


LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB

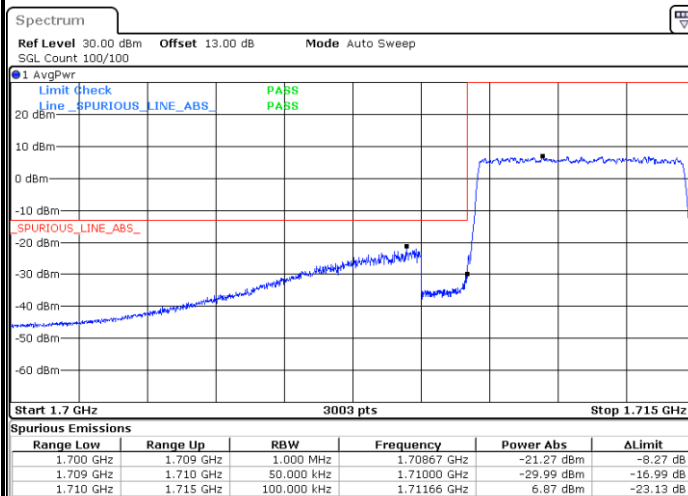


Highest Band Edge / Full RB

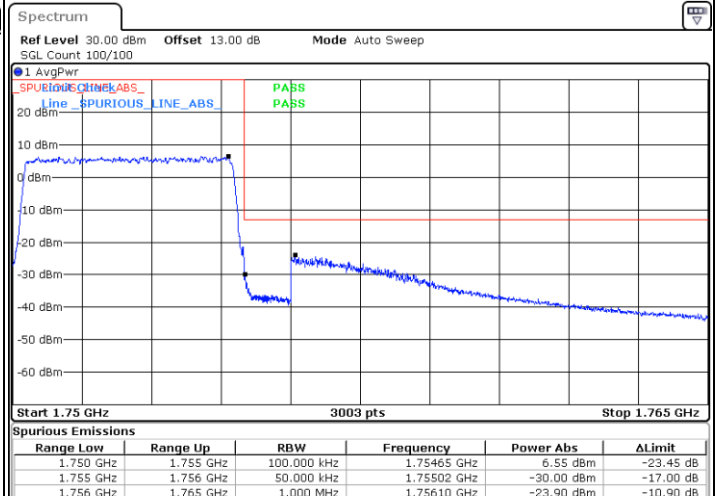


LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



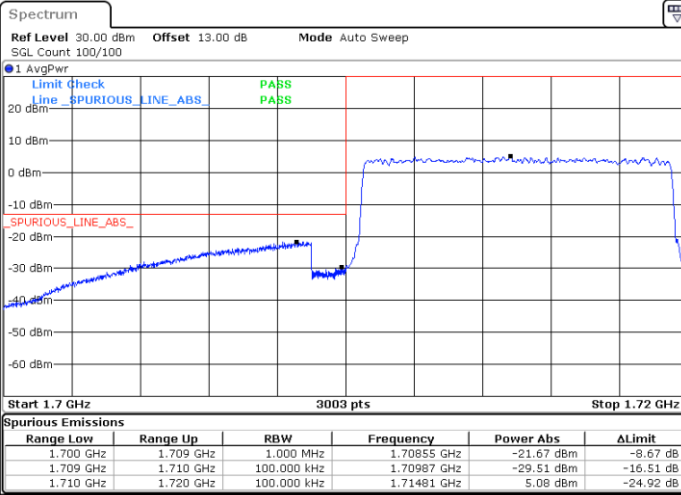
Highest Band Edge / Full RB



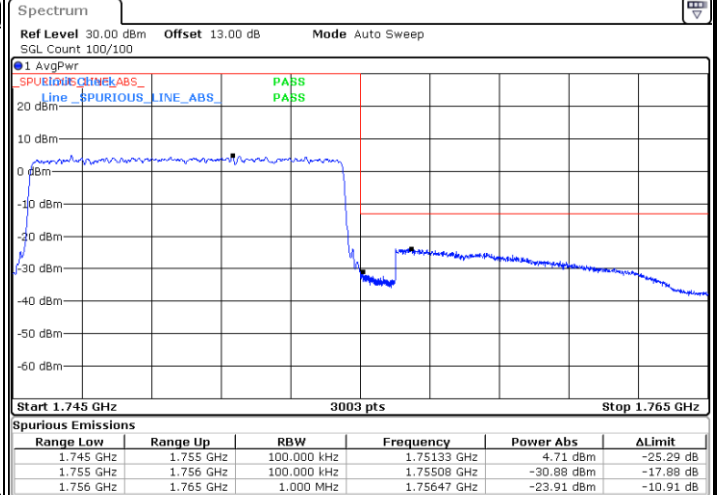


LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB

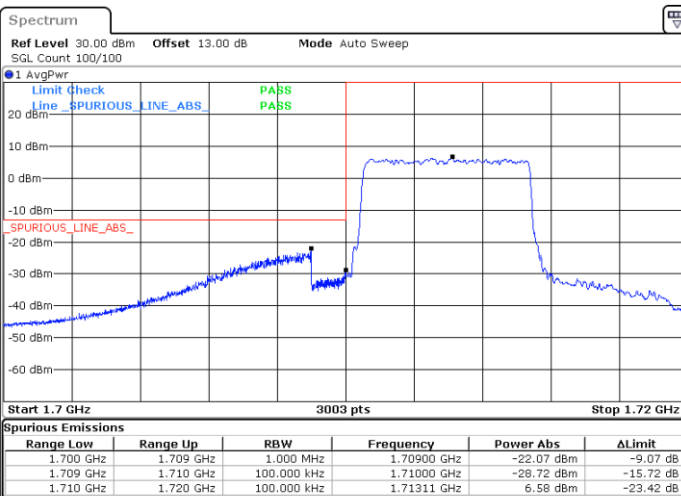


Highest Band Edge / Full RB

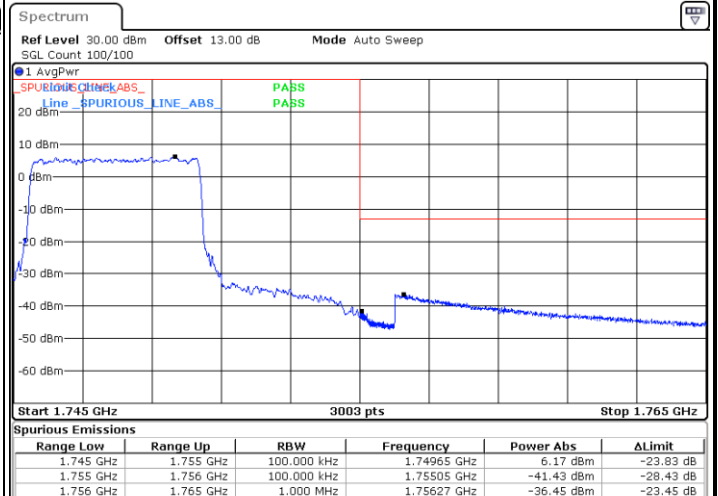


LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 27RB0



Highest Band Edge / 27 RB0

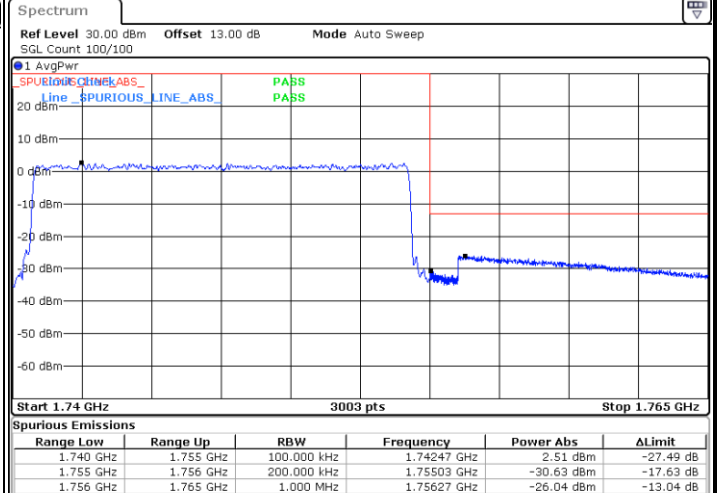
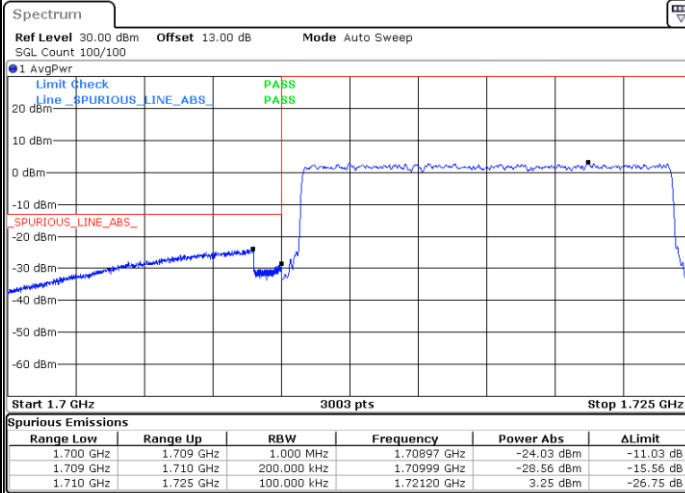




LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB

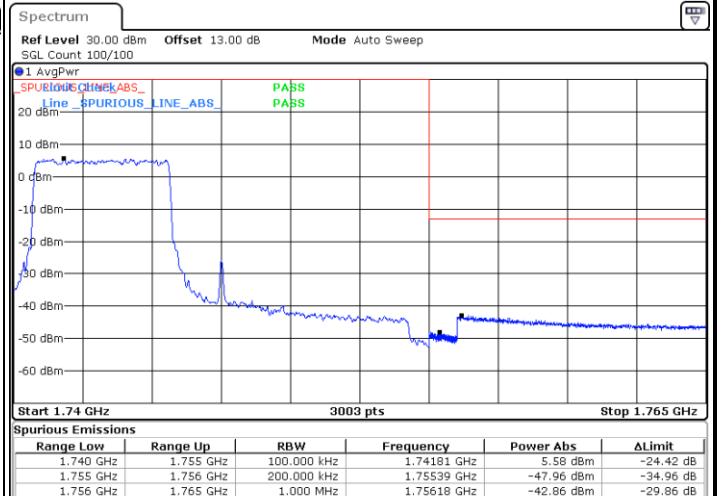
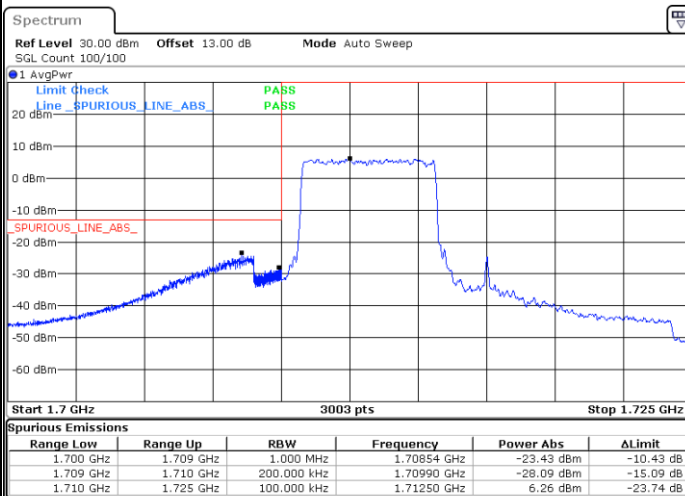
Highest Band Edge / Full RB



LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 27 RB0

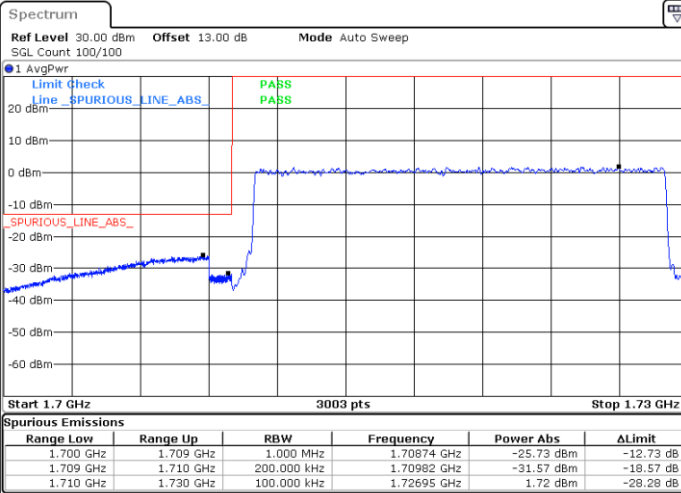
Highest Band Edge / 27 RB0



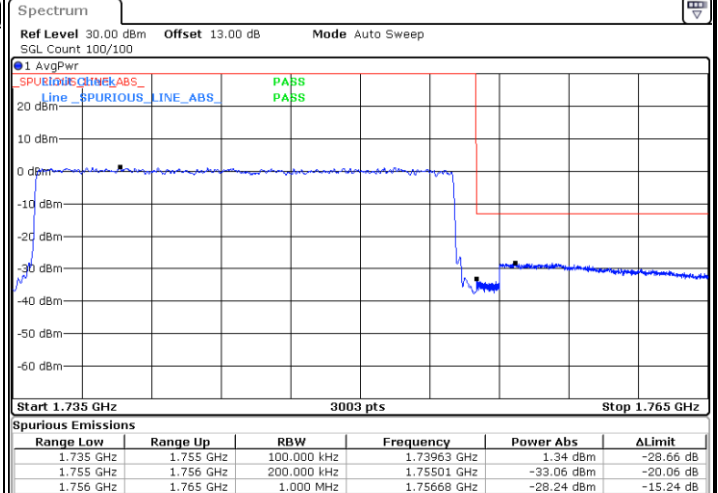


LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB

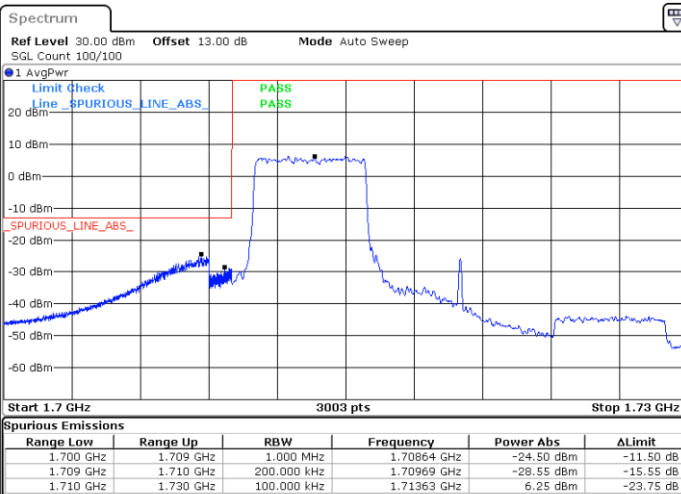


Highest Band Edge / Full RB



LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 27 RB0



Highest Band Edge / 27 RB0

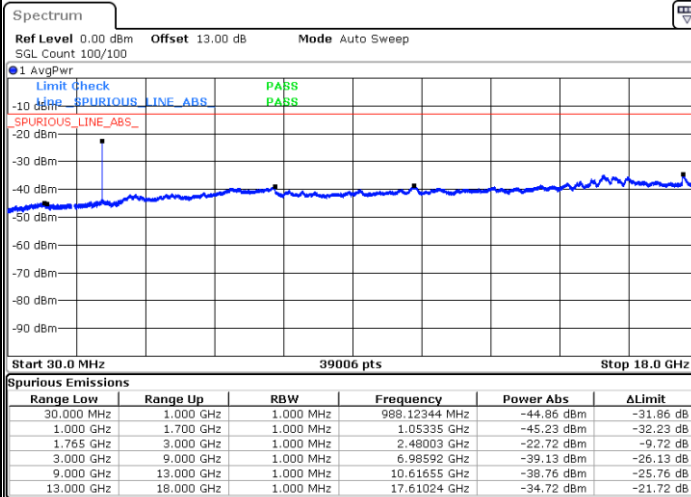




Conducted Spurious Emission

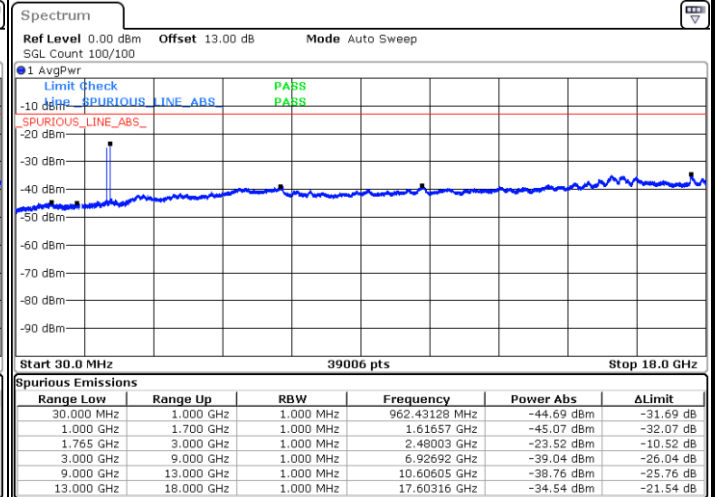
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



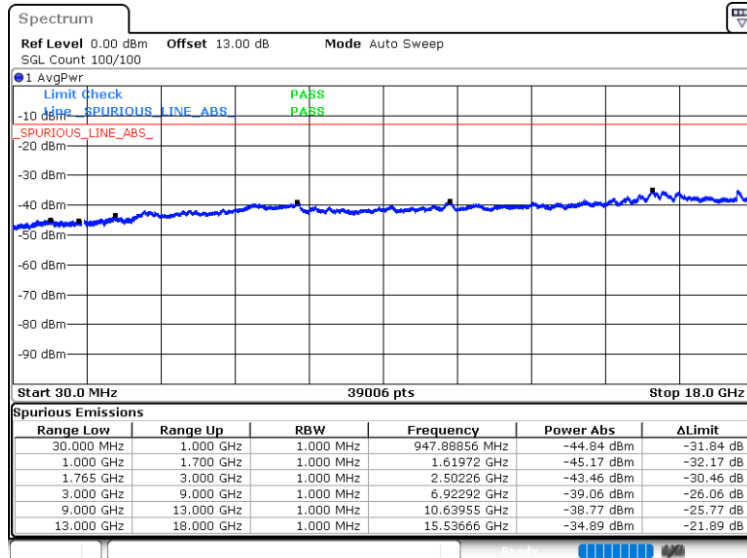
Date: 8.MAR.2023 16:23:22

Middle Channel / QPSK



Date: 8.MAR.2023 16:25:49

Highest Channel / QPSK

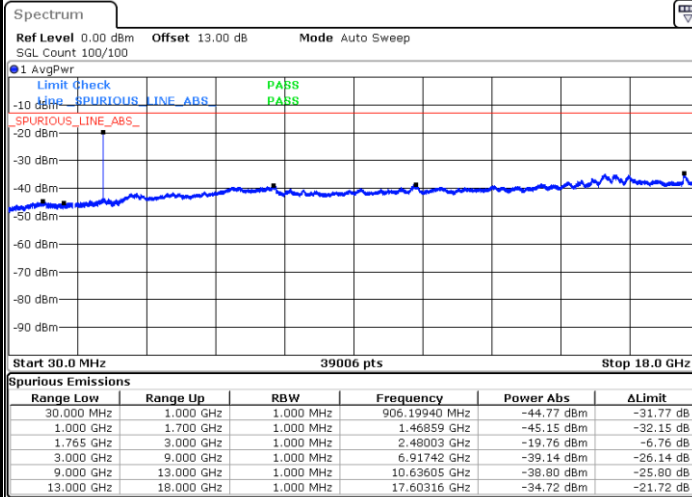


Date: 8.MAR.2023 16:31:36



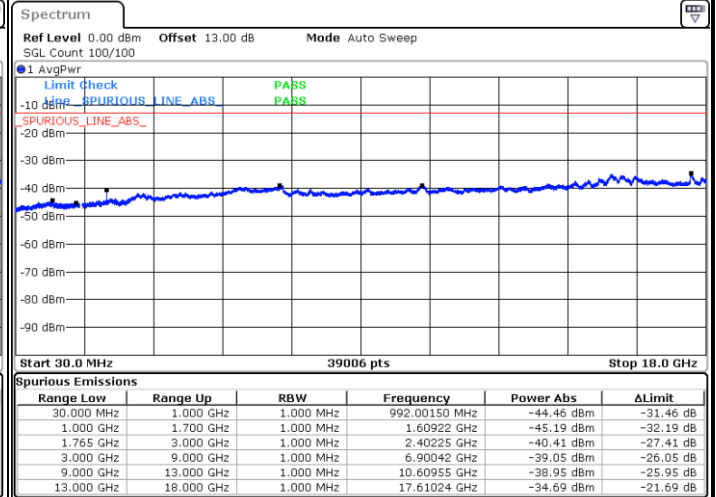
LTE Band 4 / 3MHz

Lowest Channel / QPSK



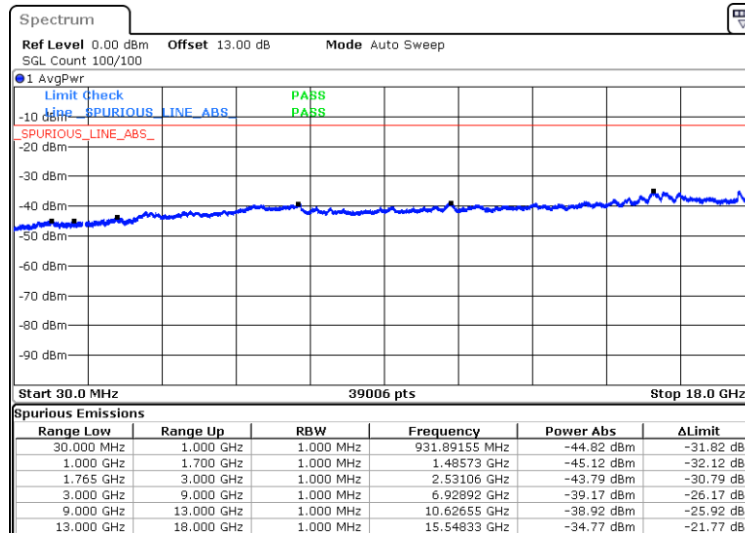
Date: 8.MAR.2023 16:35:44

Middle Channel / QPSK



Date: 8.MAR.2023 16:36:37

Highest Channel / QPSK

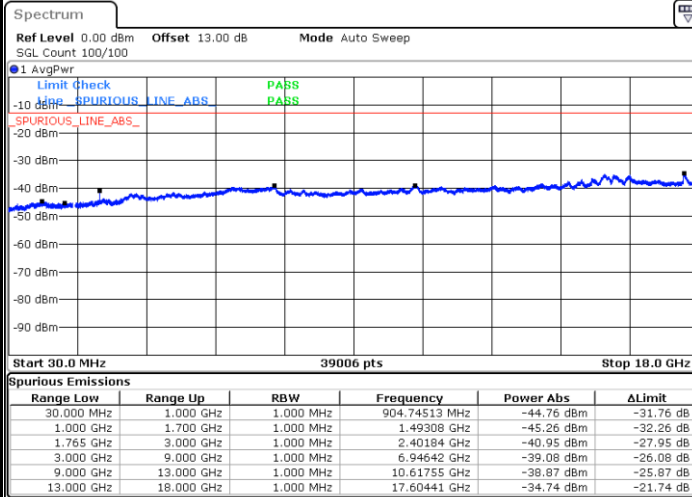


Date: 8.MAR.2023 16:37:29



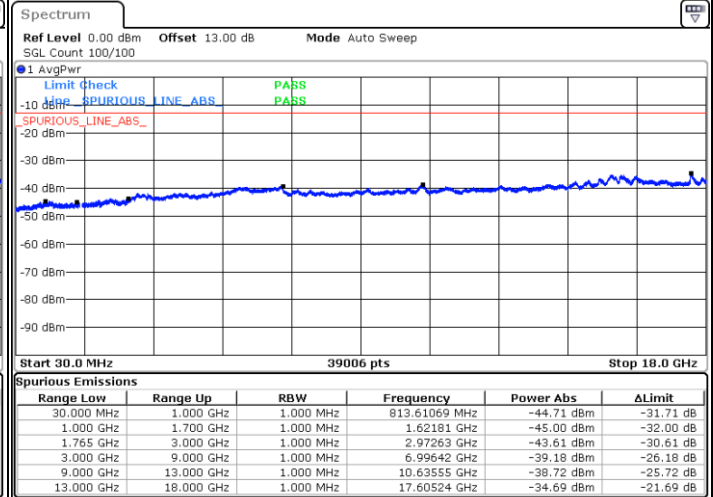
LTE Band 4 / 5MHz

Lowest Channel / QPSK



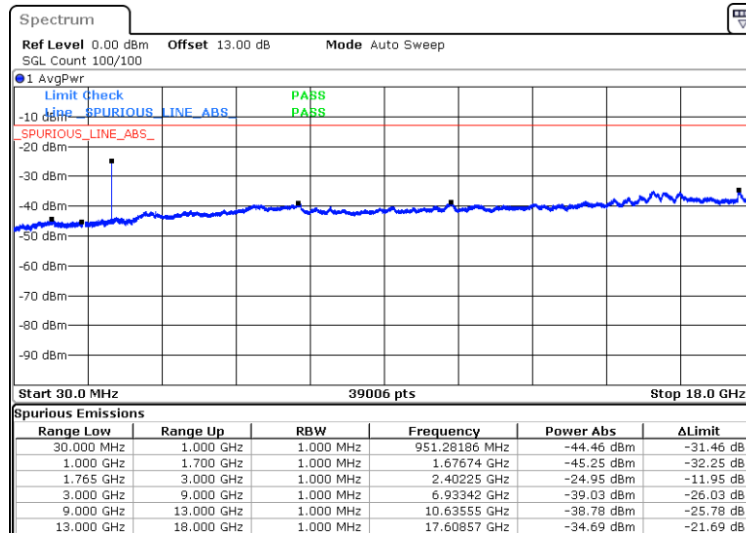
Date: 8.MAR.2023 16:41:37

Middle Channel / QPSK



Date: 8.MAR.2023 16:42:29

Highest Channel / QPSK

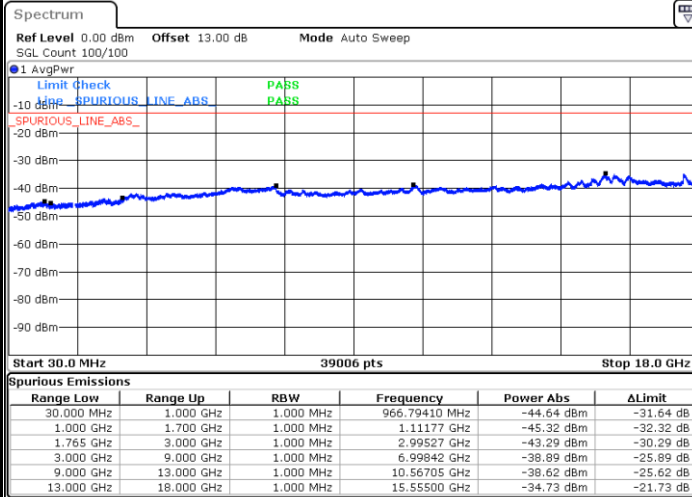


Date: 8.MAR.2023 16:43:22



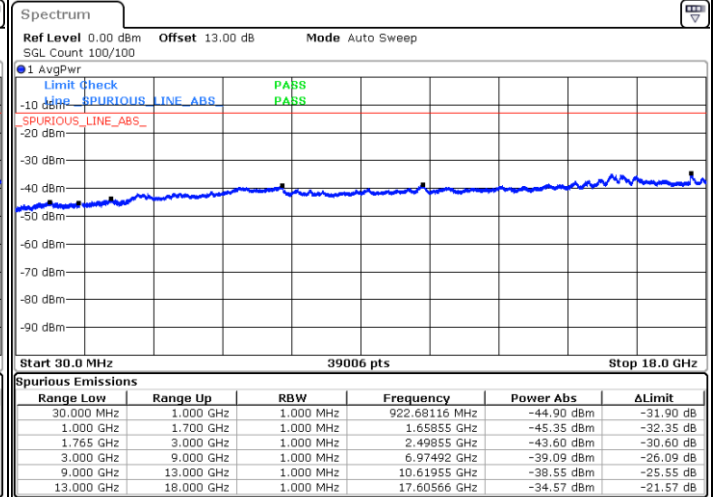
LTE Band 4 / 10MHz

Lowest Channel / QPSK



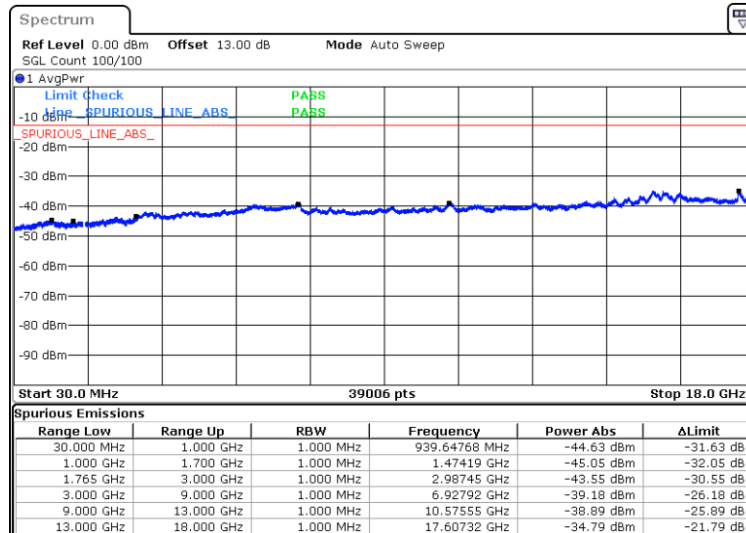
Date: 8.MAR.2023 16:57:12

Middle Channel / QPSK



Date: 8.MAR.2023 16:58:05

Highest Channel / QPSK

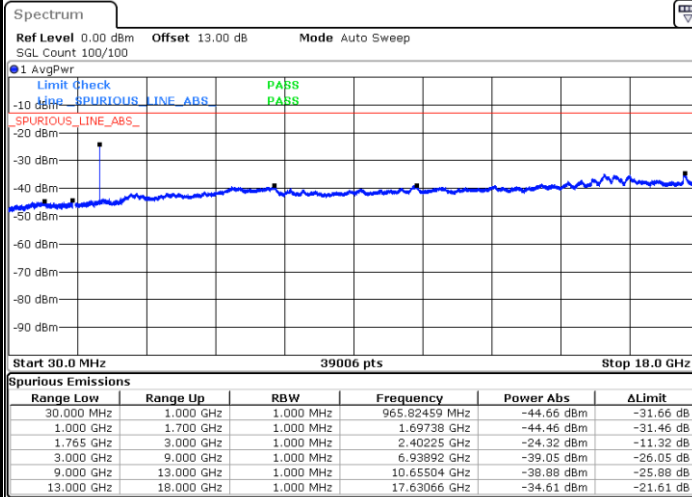


Date: 8.MAR.2023 16:58:58



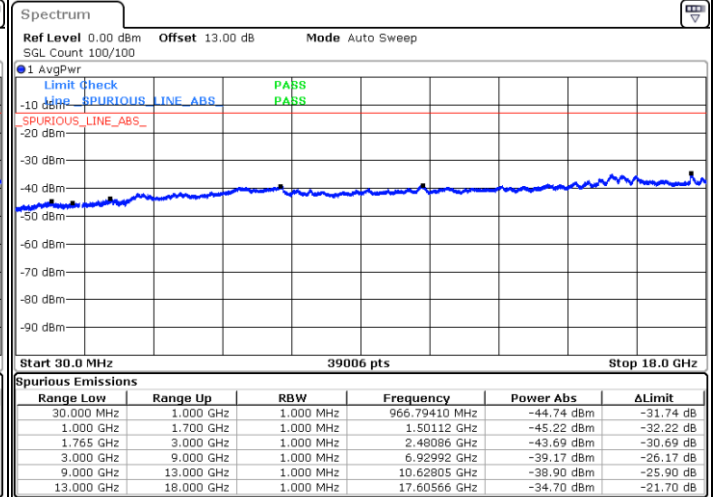
LTE Band 4 / 15MHz

Lowest Channel / QPSK



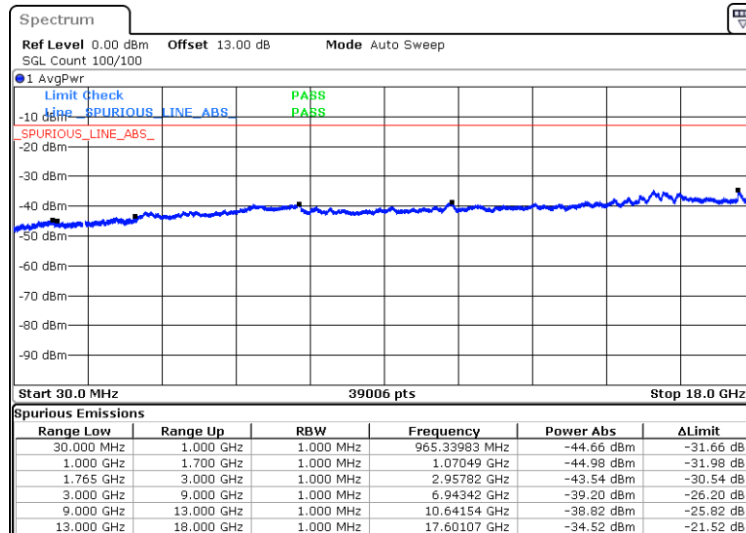
Date: 8.MAR.2023 17:03:55

Middle Channel / QPSK



Date: 8.MAR.2023 17:04:48

Highest Channel / QPSK

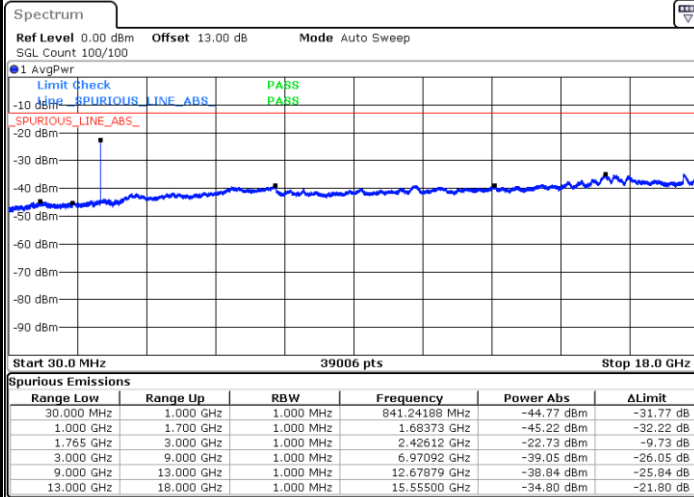


Date: 8.MAR.2023 17:05:40



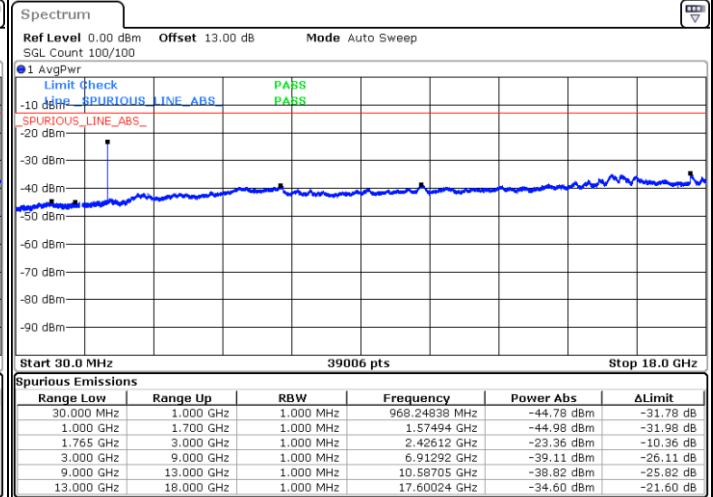
LTE Band 4 / 20MHz

Lowest Channel / QPSK



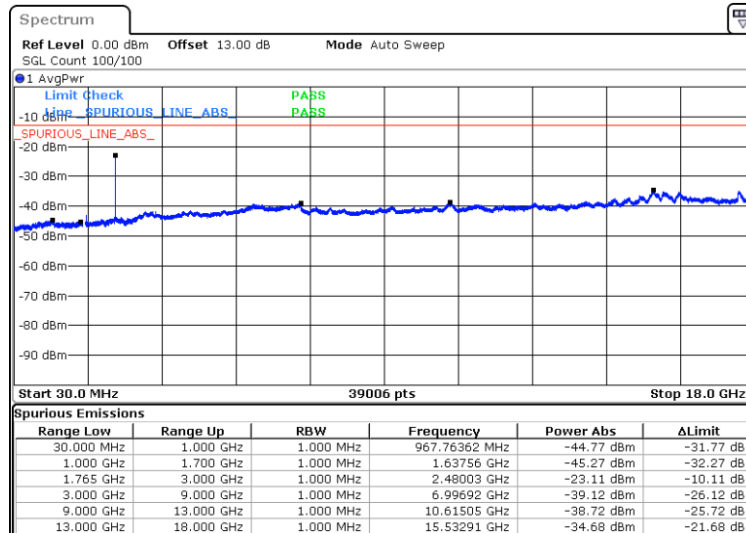
Date: 8.MAR.2023 17:13:04

Middle Channel / QPSK



Date: 8.MAR.2023 17:13:57

Highest Channel / QPSK



Date: 8.MAR.2023 17:14:49

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
35	Normal Voltage	0.0068	PASS
30	Normal Voltage	0.0041	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0070	
0	Normal Voltage	0.0018	
20	Maximum Voltage	0.0068	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0063	

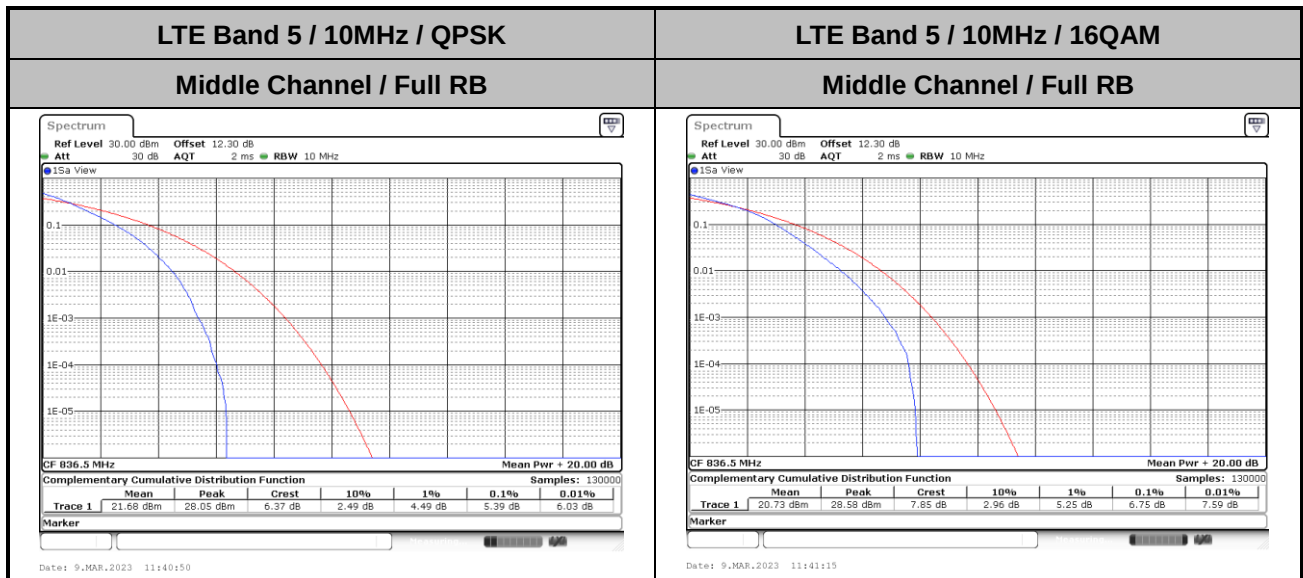
Note:

1. Normal Voltage = 3.87 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	Limit: 13dB
RB Size	Full RB	27RB0	Result
Middle CH	5.39	6.75	PASS





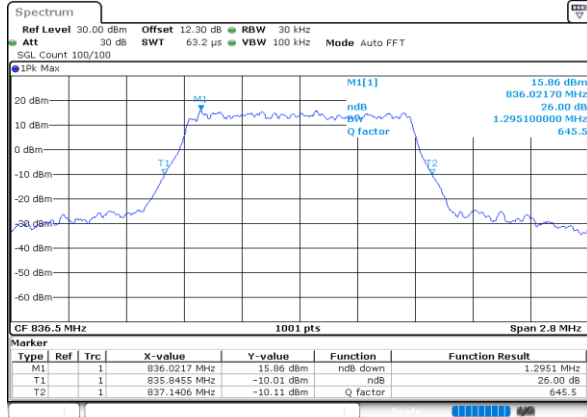
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.30	1.28	3.00	3.04	4.96	5.05	9.89	5.51

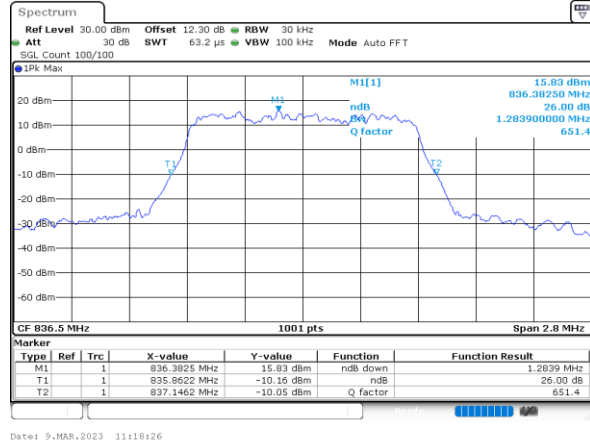


LTE Band 5

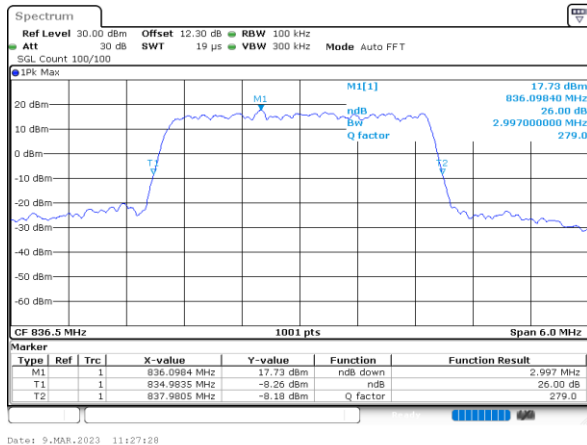
Middle Channel / 1.4MHz / QPSK



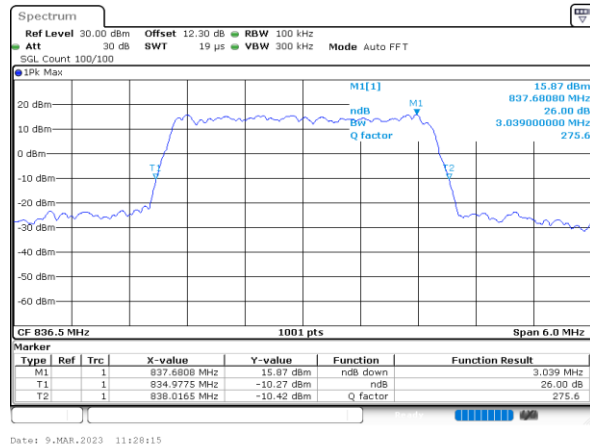
Middle Channel / 1.4MHz / 16QAM



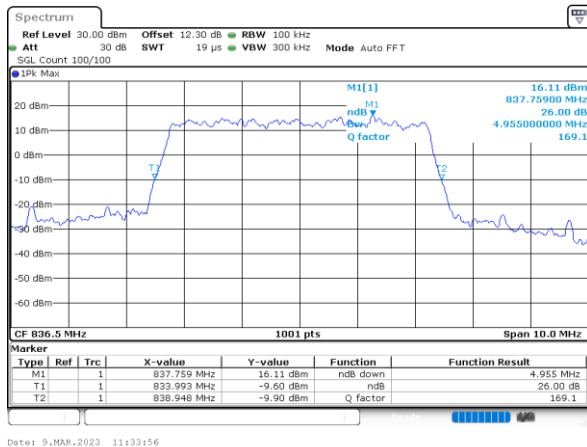
Middle Channel / 3MHz / QPSK



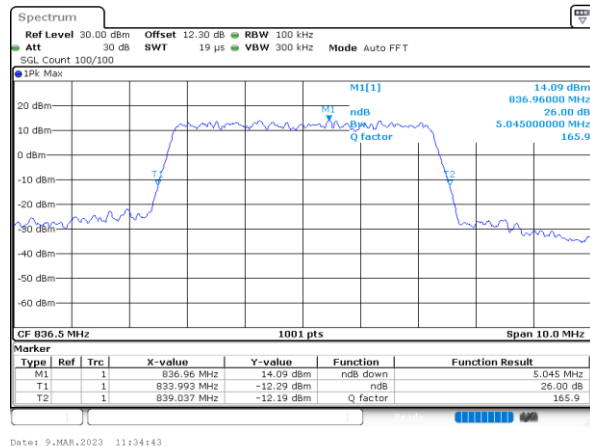
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



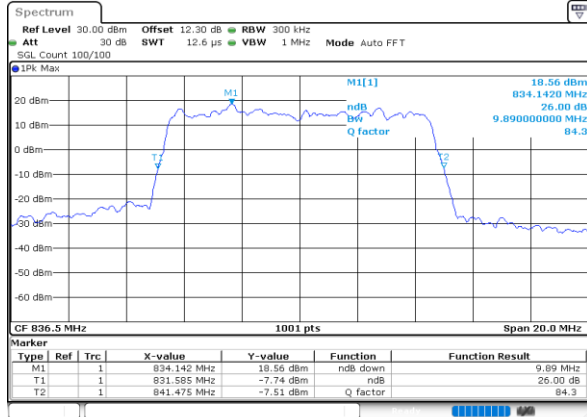
Middle Channel / 5MHz / 16QAM



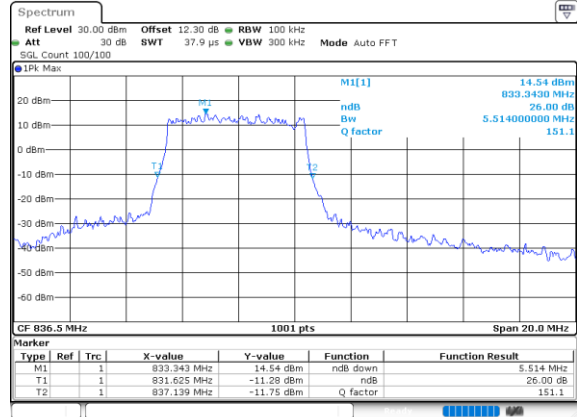


LTE Band 5

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM





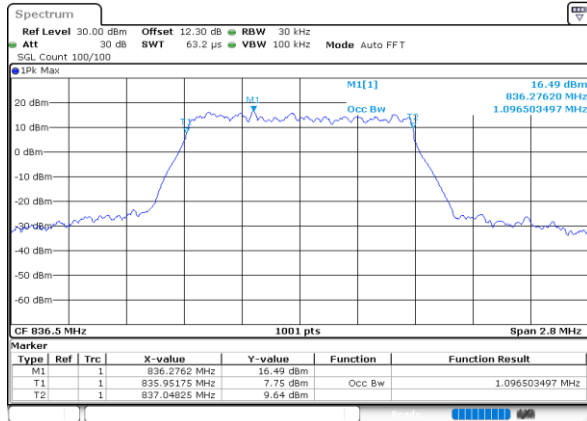
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.10	1.09	2.74	2.70	4.49	4.48	9.01	4.86

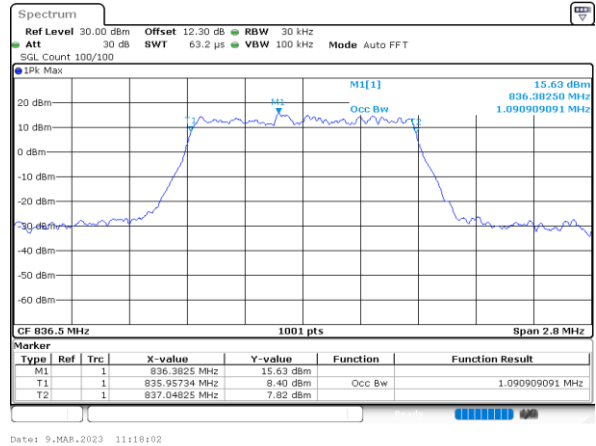


LTE Band 5

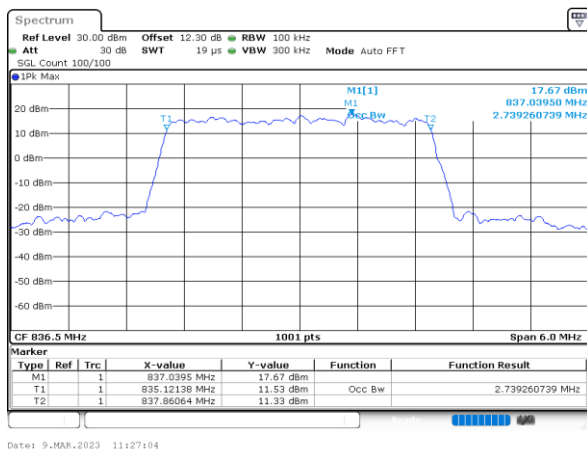
Middle Channel / 1.4MHz / QPSK



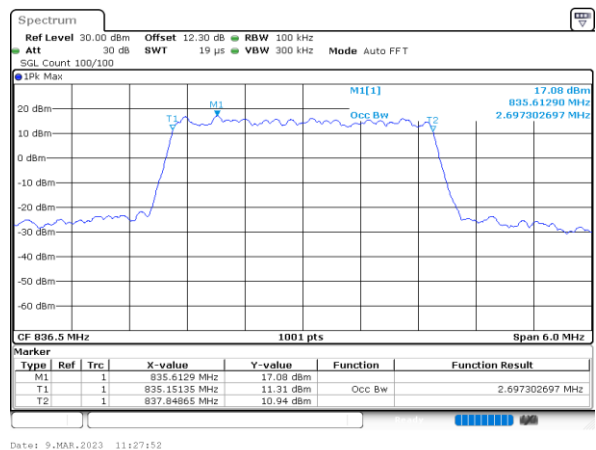
Middle Channel / 1.4MHz / 16QAM



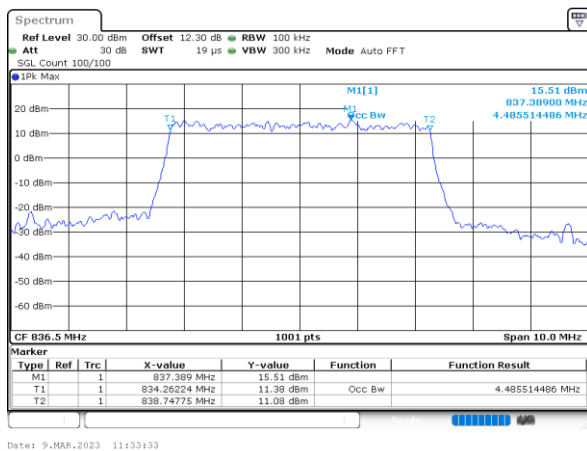
Middle Channel / 3MHz / QPSK



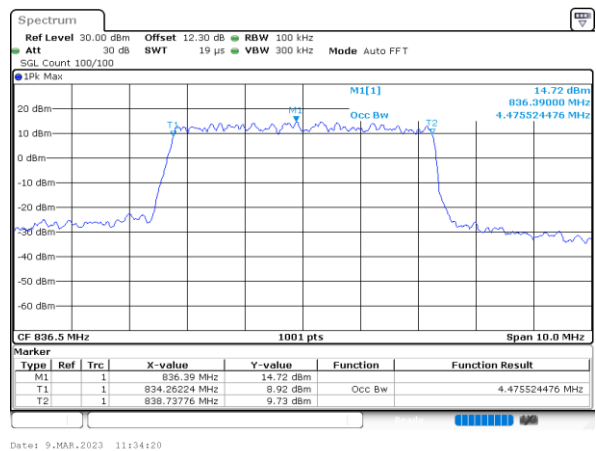
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



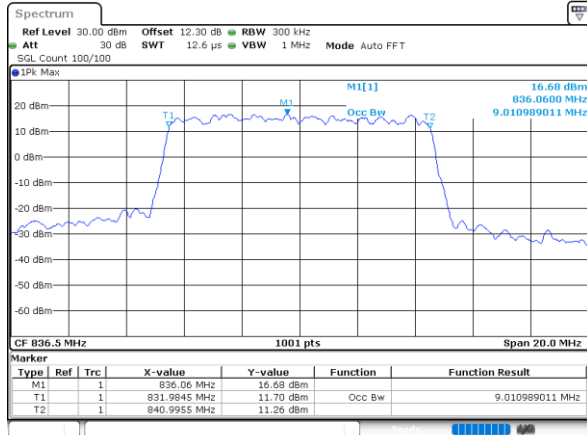
Middle Channel / 5MHz / 16QAM





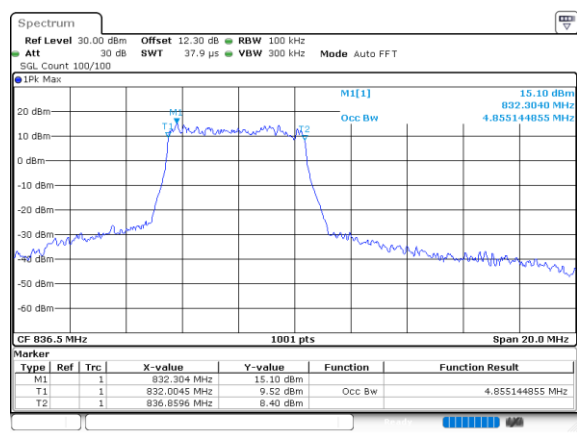
LTE Band 5

Middle Channel / 10MHz / QPSK



Date: 9.MAR.2023 11:40:02

Middle Channel / 10MHz / 16QAM



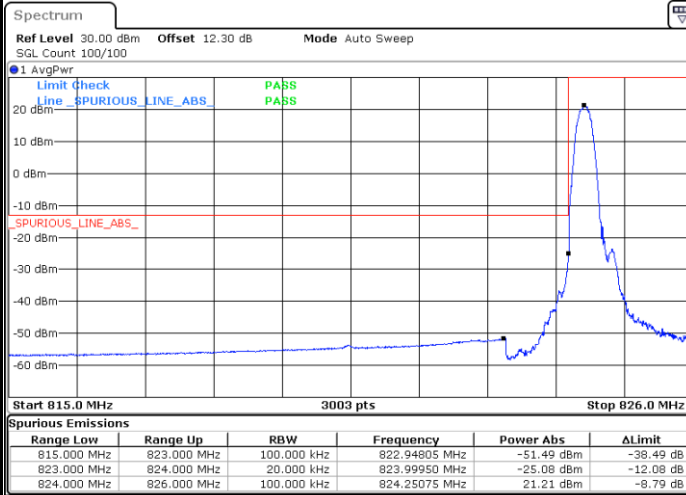
Date: 4.JUL.2023 16:51:01



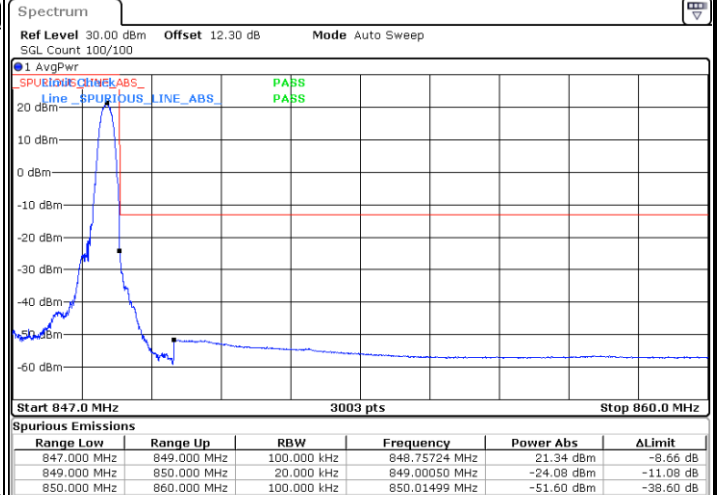
Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

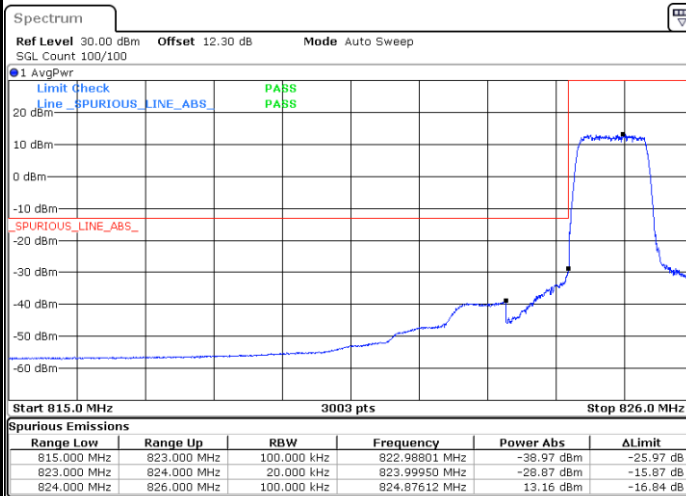
Lowest Band Edge / 1RB



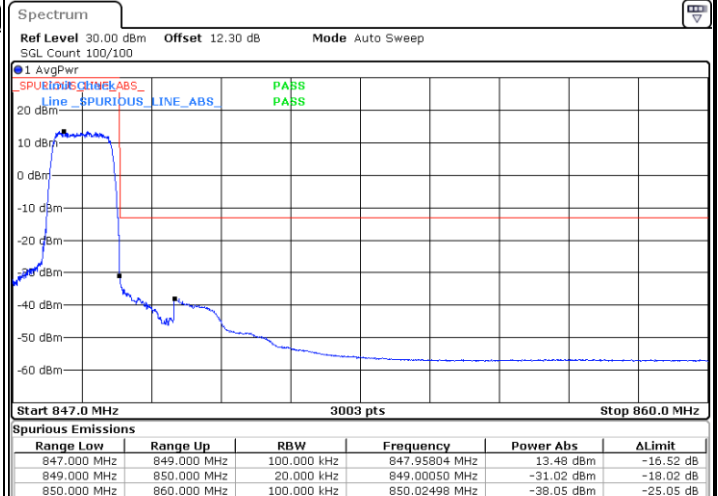
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



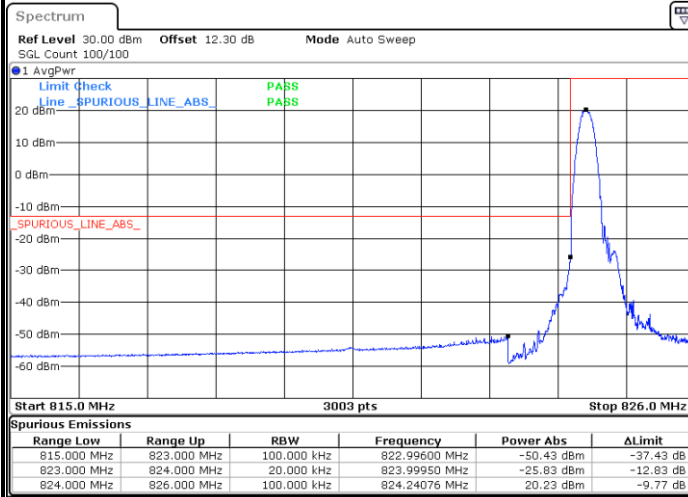
Highest Band Edge / Full RB



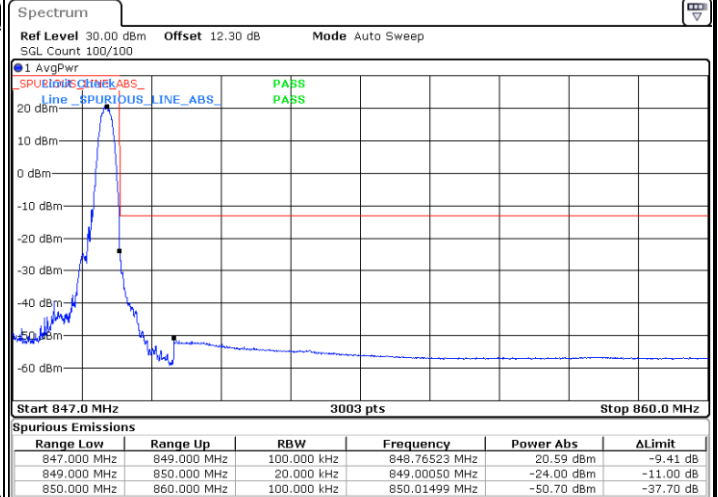


LTE Band 5 / 1.4MHz / 16QAM

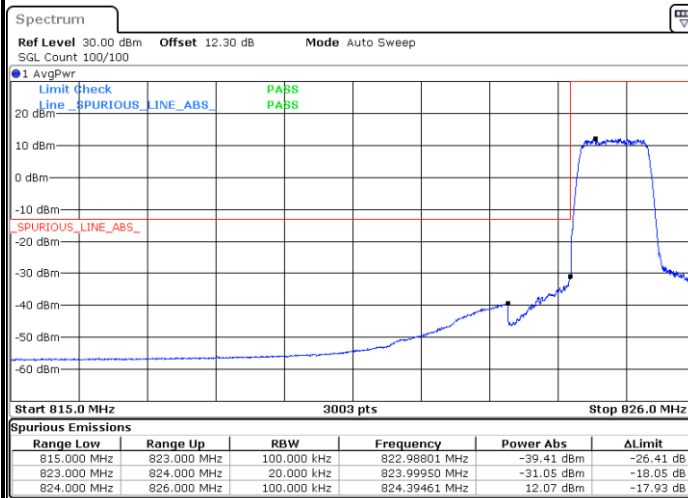
Lowest Band Edge / 1 RB



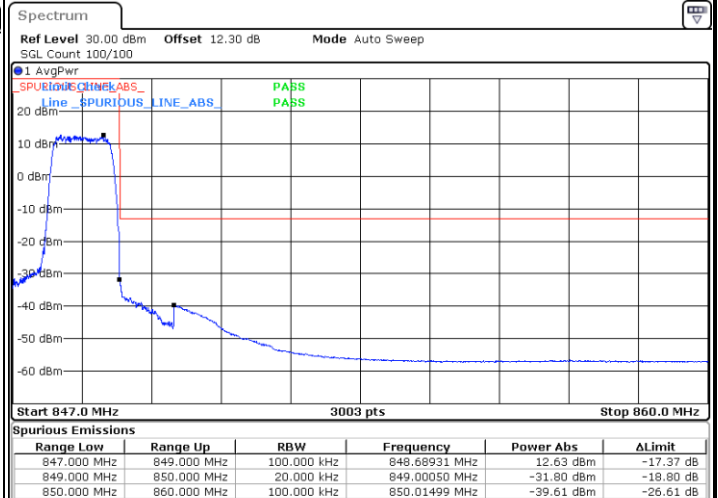
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

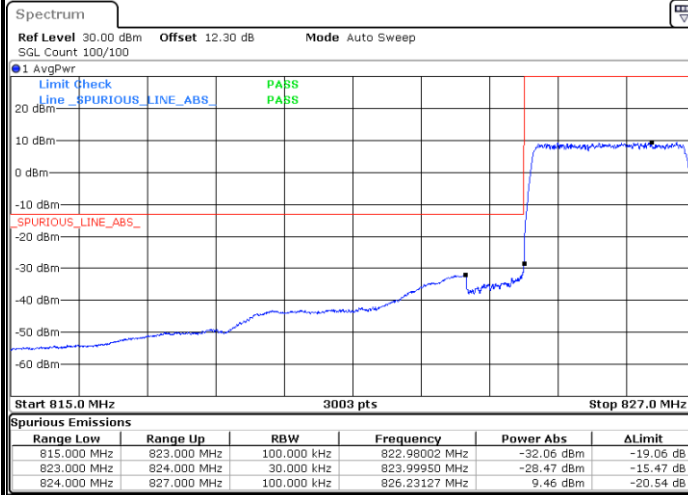




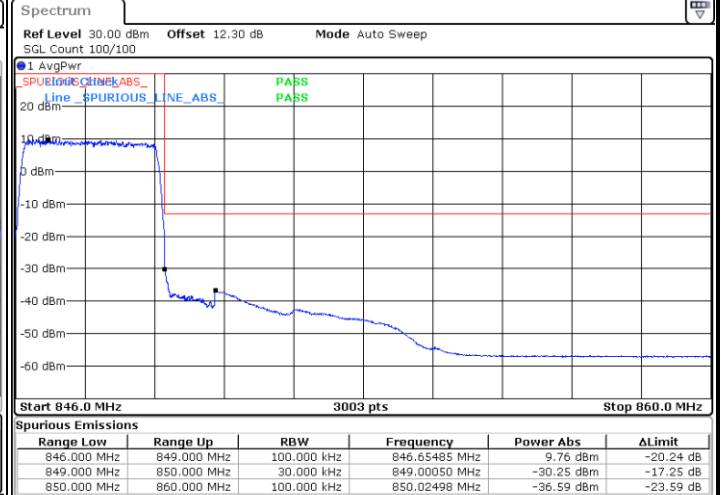
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.MAR.2023 11:25:27

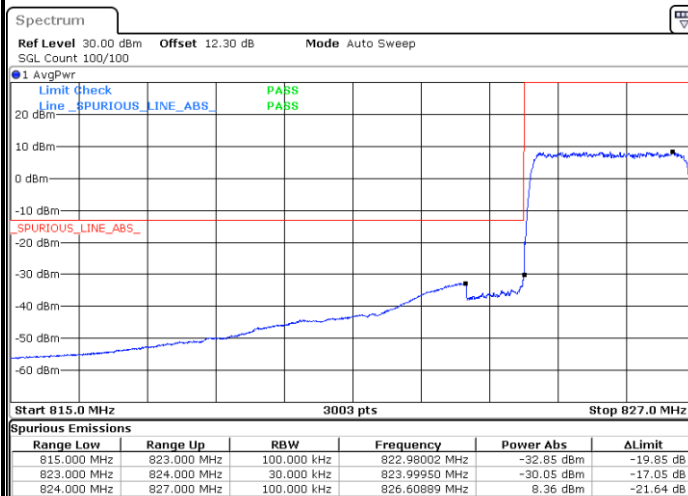


Date: 9.MAR.2023 11:29:28

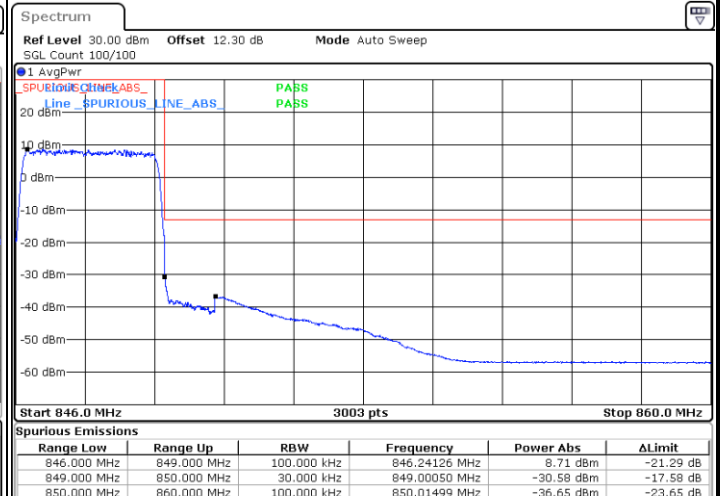
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.MAR.2023 11:26:40



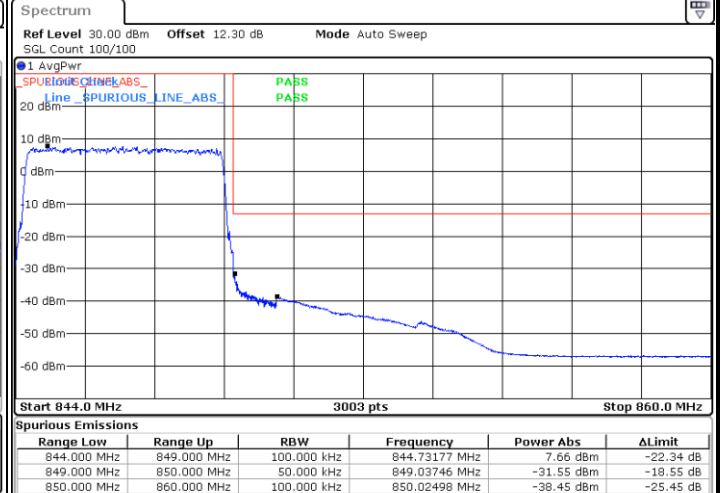
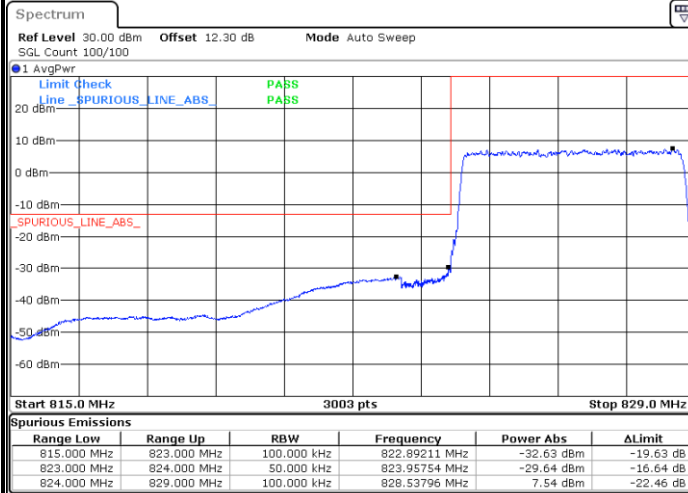
Date: 9.MAR.2023 11:30:41



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / Full RB

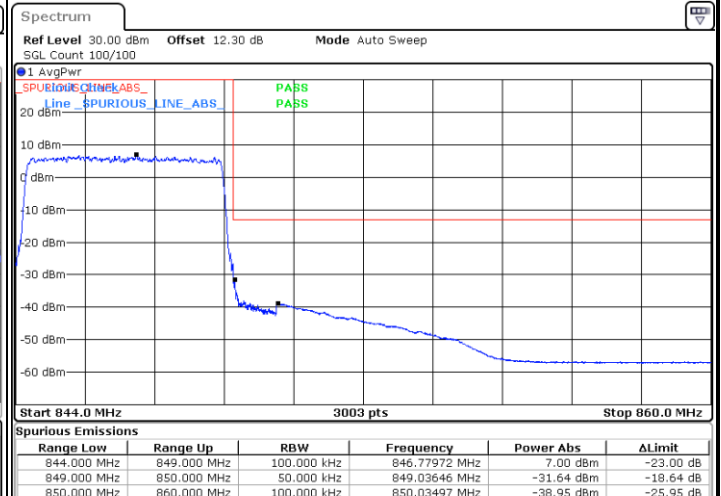
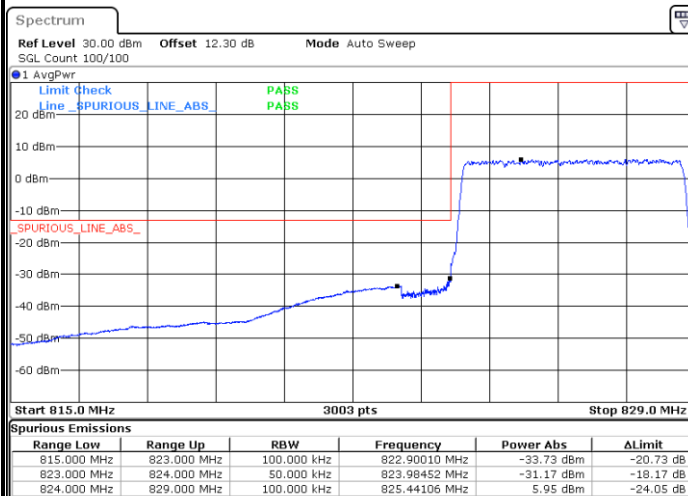
Highest Band Edge / Full RB



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

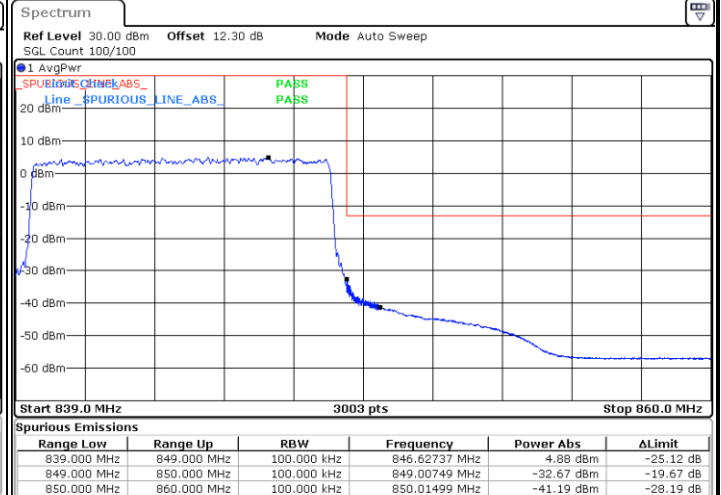
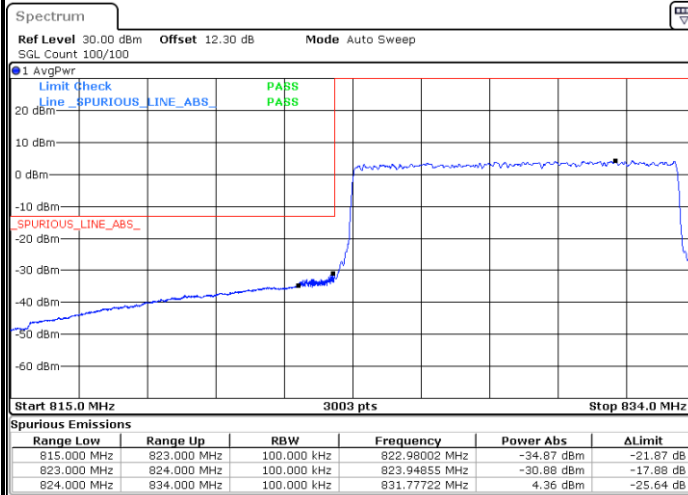




LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / Full RB

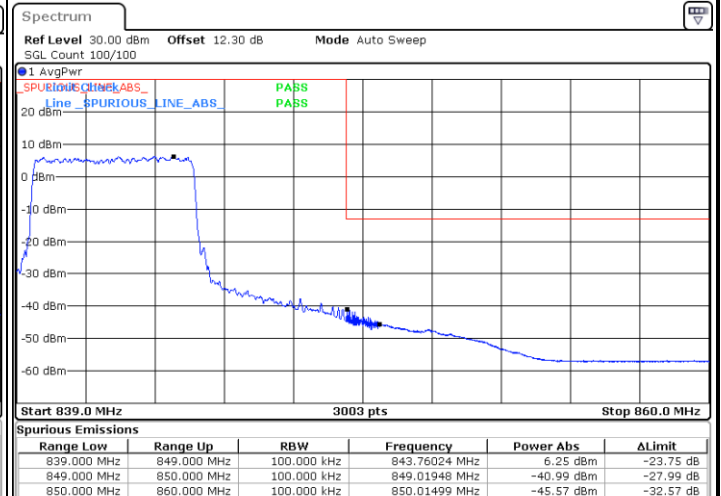
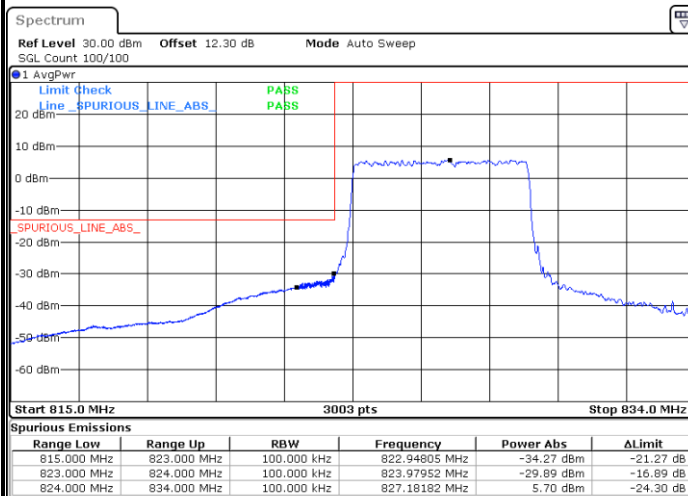
Highest Band Edge / Full RB



LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 27RB0

Highest Band Edge / 27 RB0

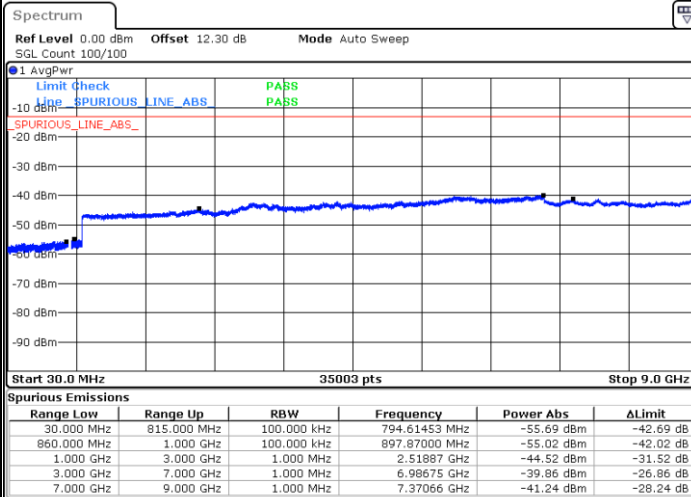




Conducted Spurious Emission

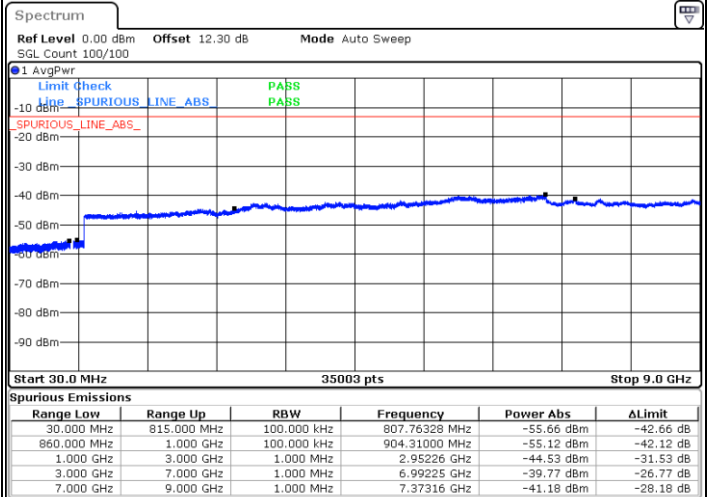
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



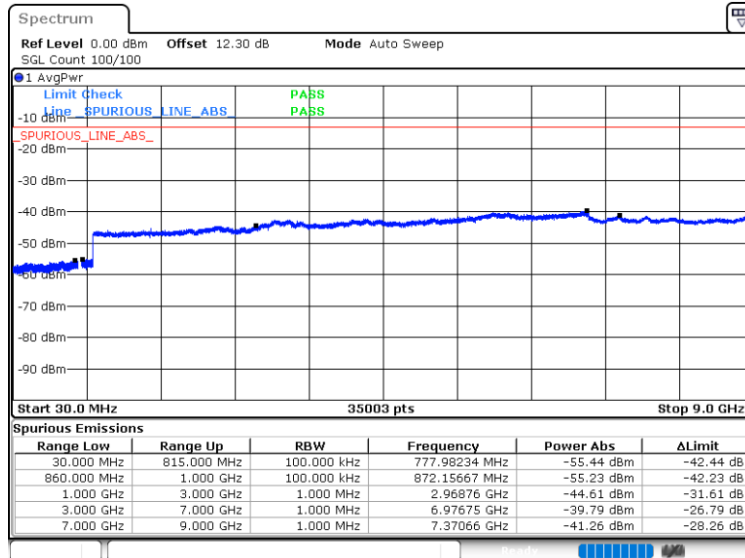
Date: 9.MAR.2023 11:13:30

Middle Channel / QPSK



Date: 9.MAR.2023 11:16:51

Highest Channel / QPSK

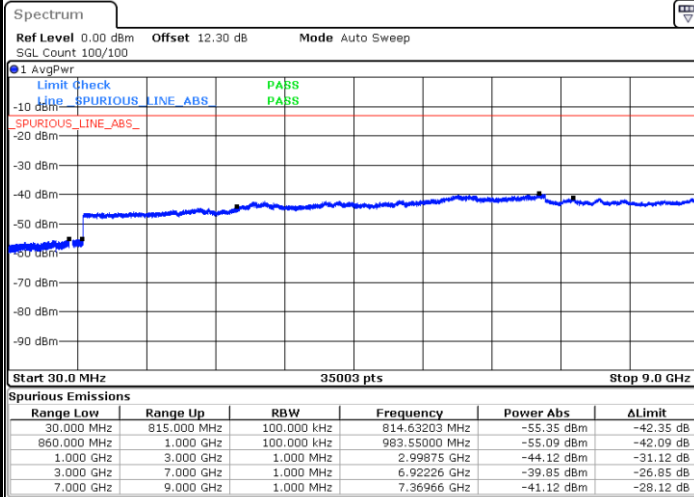


Date: 9.MAR.2023 11:19:18



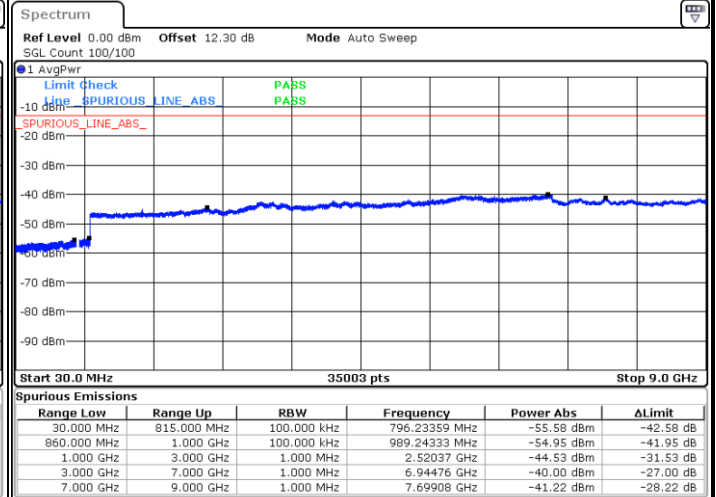
LTE Band 5 / 3MHz

Lowest Channel / QPSK



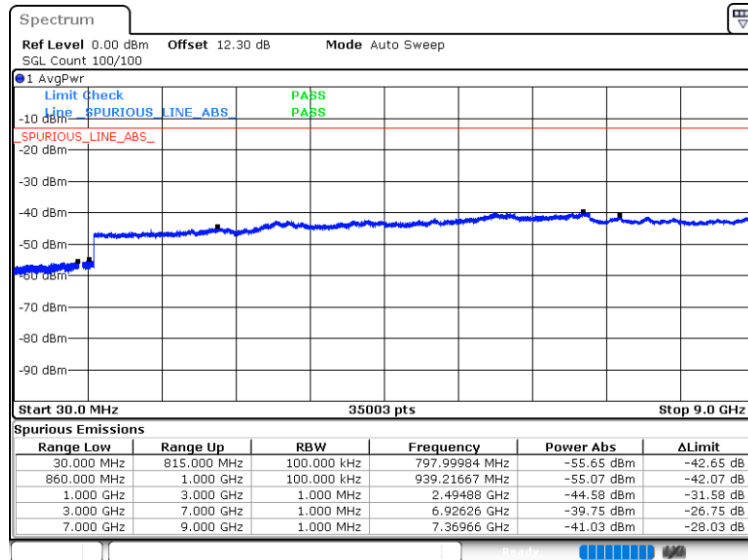
Date: 9.MAR.2023 11:45:22

Middle Channel / QPSK



Date: 9.MAR.2023 11:46:14

Highest Channel / QPSK

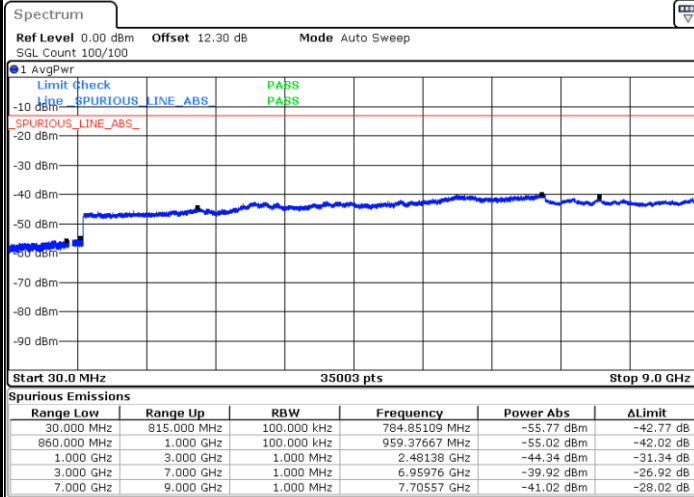


Date: 9.MAR.2023 11:47:08



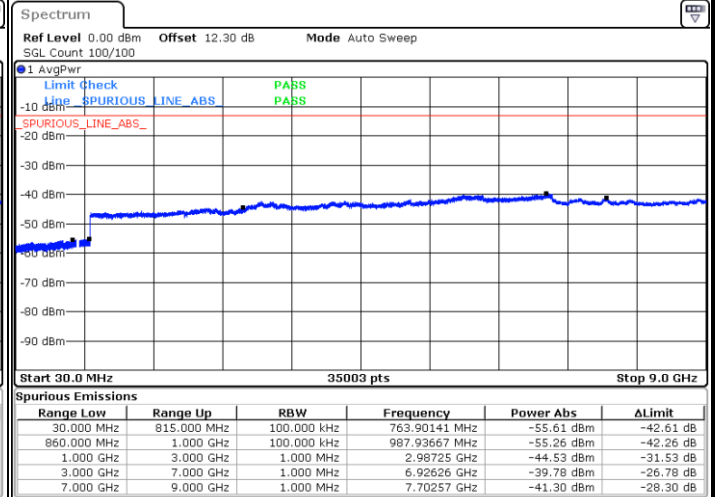
LTE Band 5 / 5MHz

Lowest Channel / QPSK



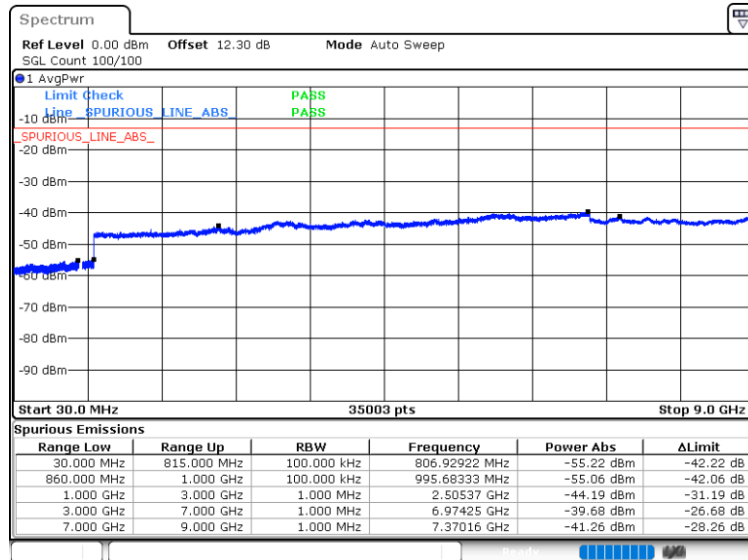
Date: 9.MAR.2023 11:48:01

Middle Channel / QPSK



Date: 9.MAR.2023 11:48:54

Highest Channel / QPSK

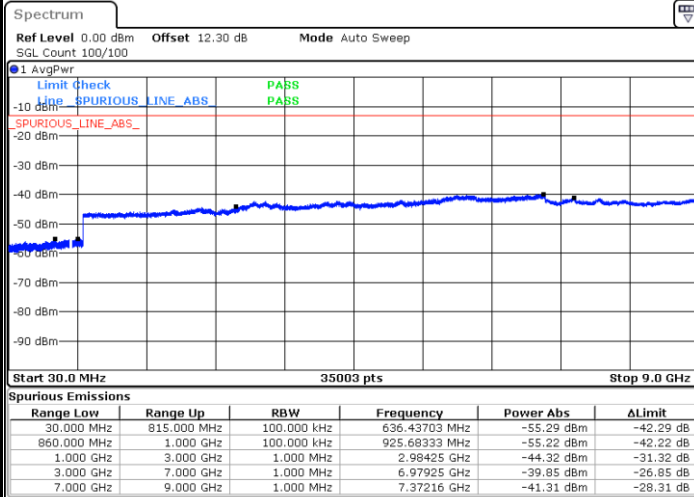


Date: 9.MAR.2023 11:49:46



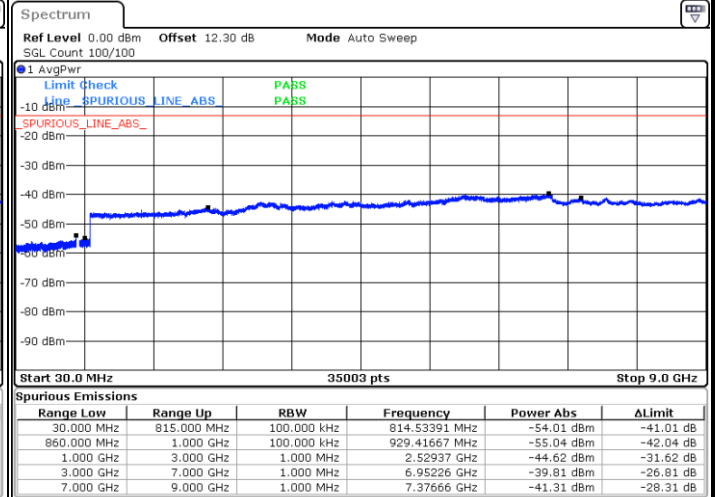
LTE Band 5 / 10MHz

Lowest Channel / QPSK



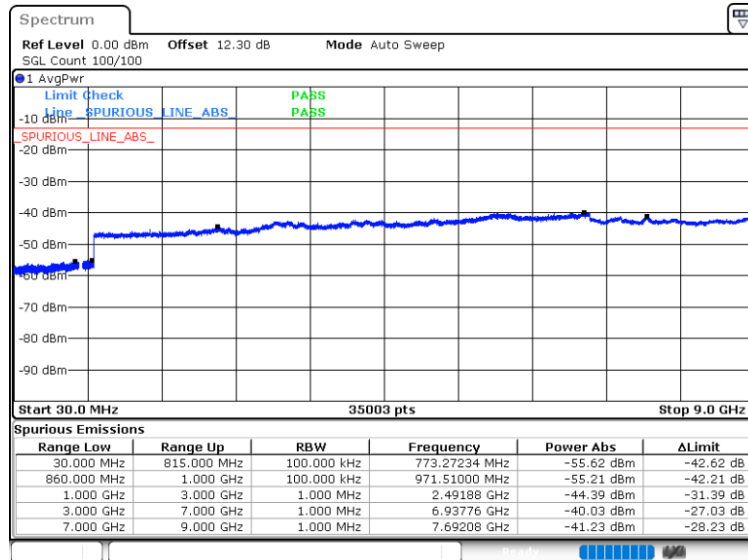
Date: 9.MAR.2023 11:50:40

Middle Channel / QPSK



Date: 9.MAR.2023 11:51:32

Highest Channel / QPSK



Date: 9.MAR.2023 11:52:25

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
35	Normal Voltage	0.0090	PASS
30	Normal Voltage	0.0079	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0087	
0	Normal Voltage	0.0072	
20	Maximum Voltage	0.0096	
20	Normal Voltage	0.0047	
20	Battery End Point	0.0033	

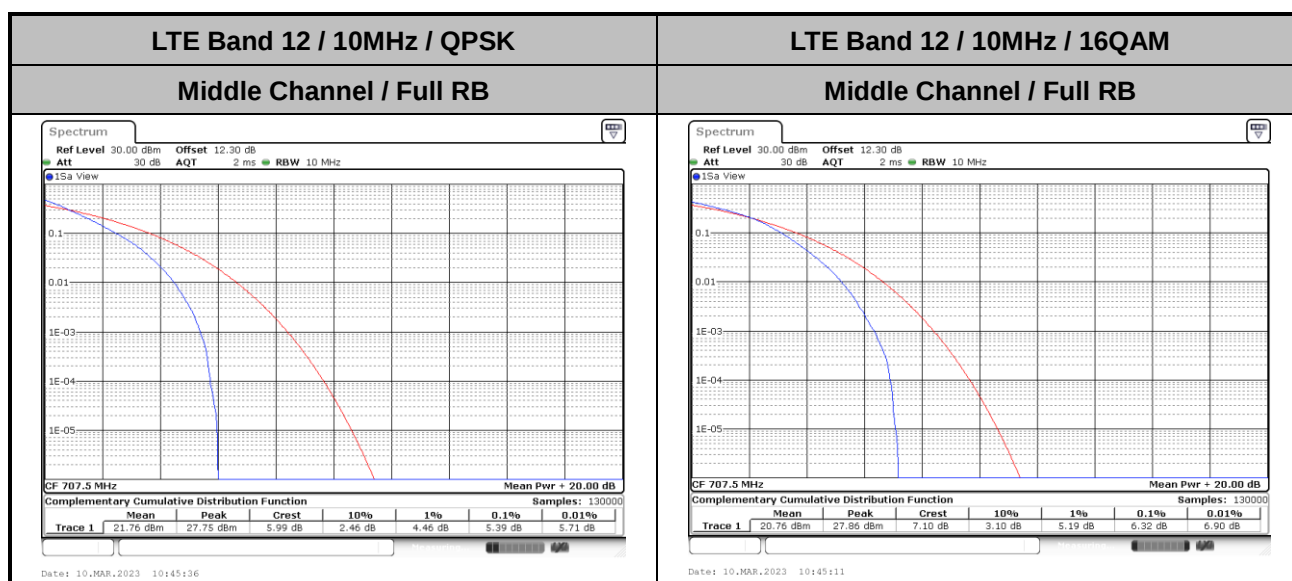
Note: Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 4.4 V. ; Maximum Voltage = 3.6 V.



LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	27 RB0	Result
Middle CH	5.39	6.32	PASS





26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.29	1.28	3.00	3.03	4.95	4.89	9.69	5.55