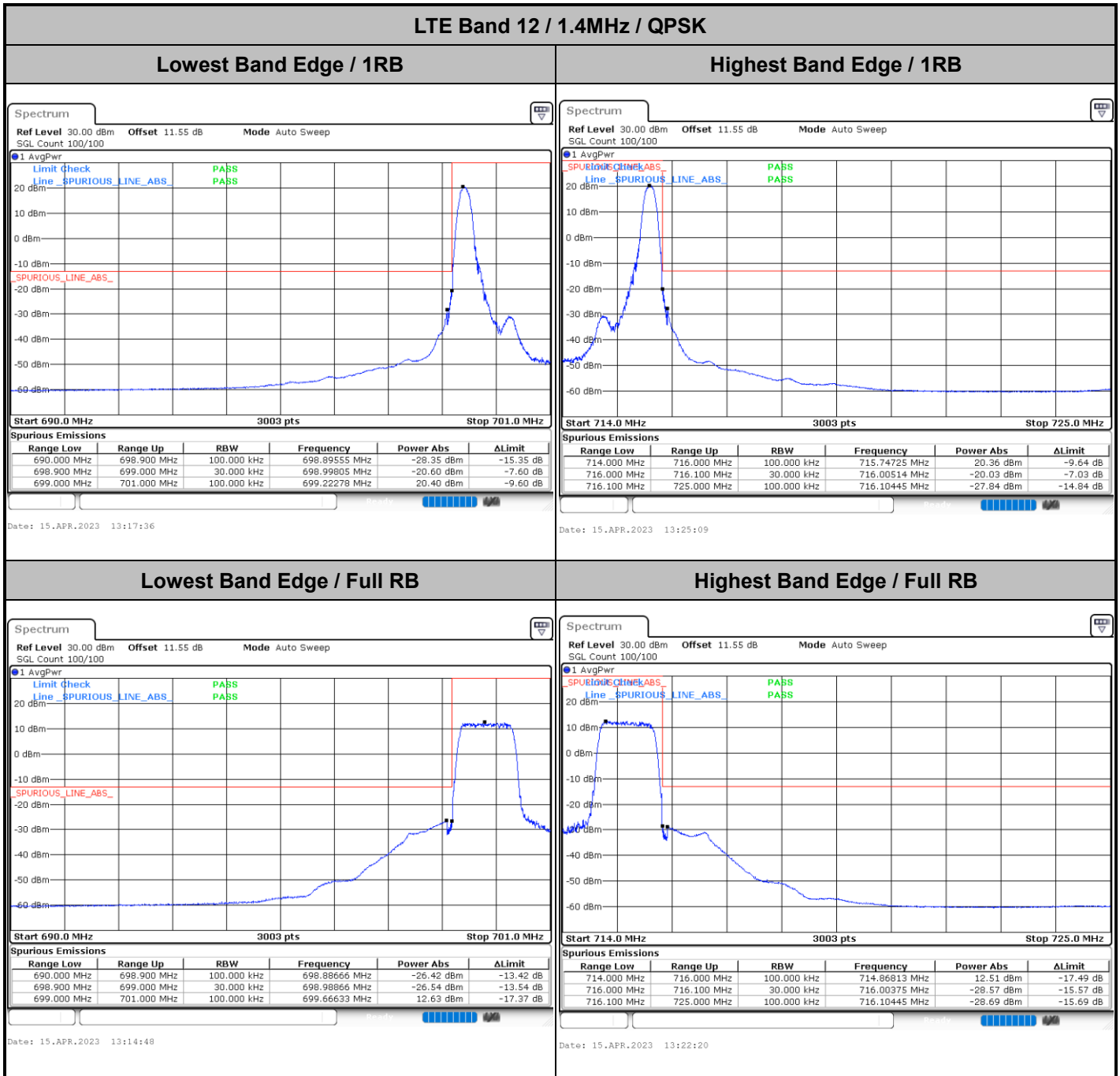




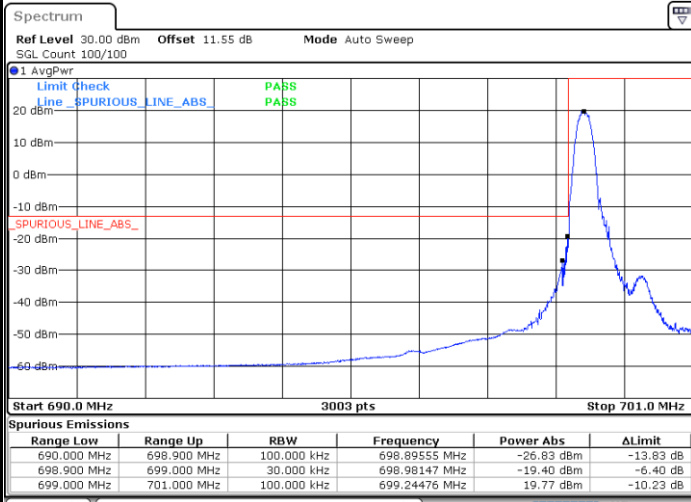
Conducted Band Edge





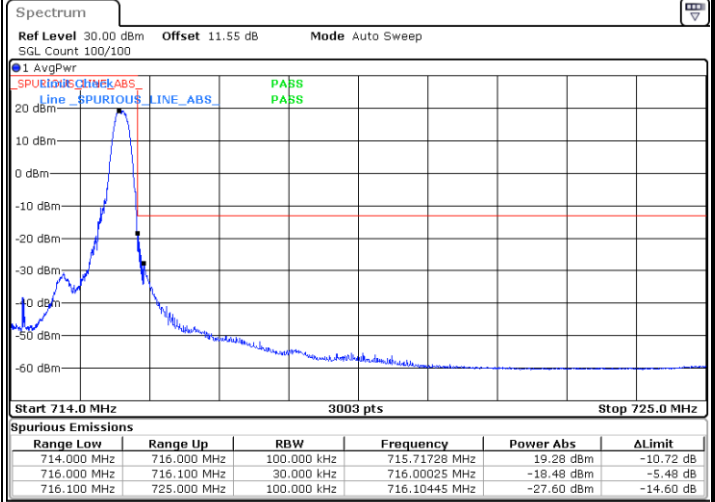
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



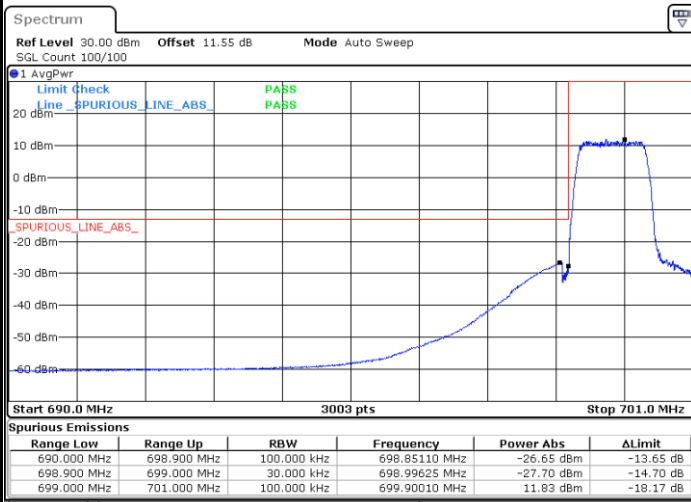
Date: 15.APR.2023 13:16:40

Highest Band Edge / 1 RB



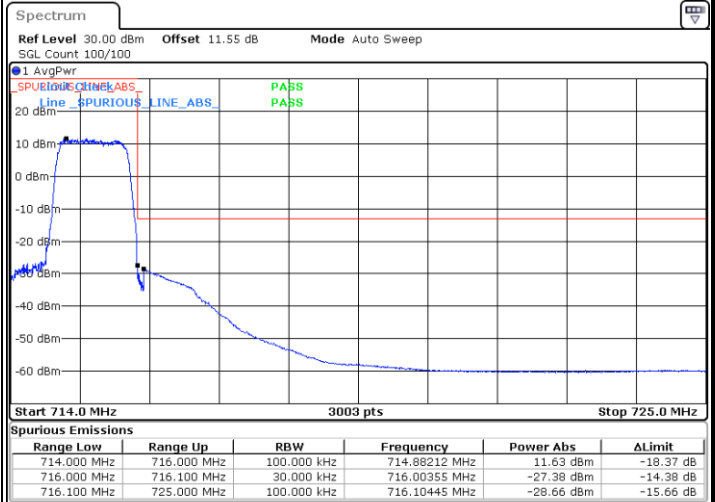
Date: 15.APR.2023 13:24:12

Lowest Band Edge / Full RB



Date: 15.APR.2023 13:15:44

Highest Band Edge / Full RB

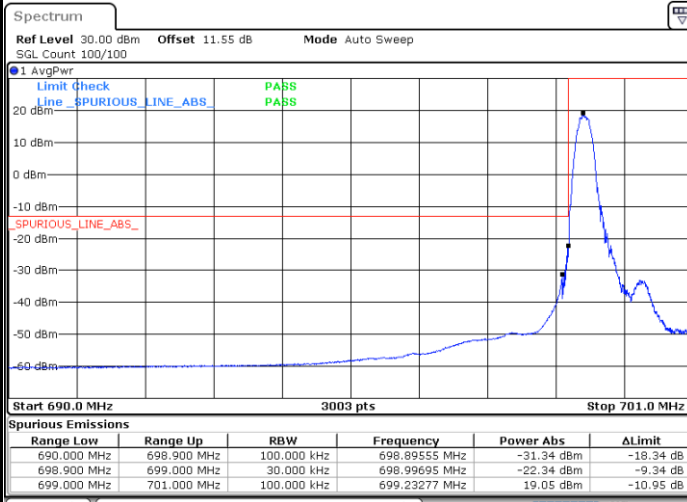


Date: 15.APR.2023 13:23:16



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



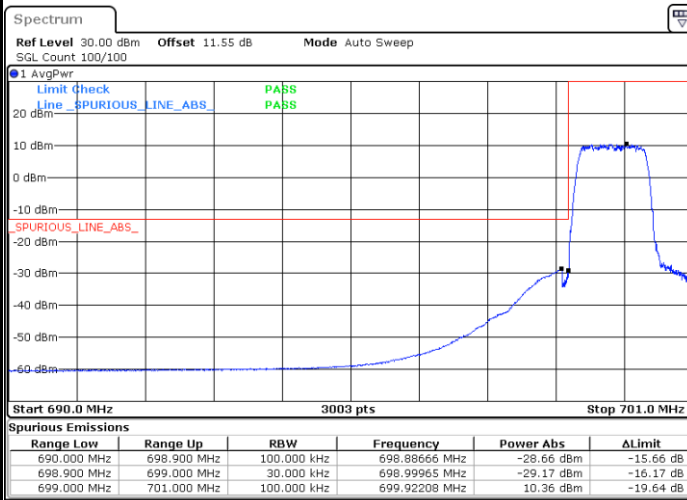
Date: 15.APR.2023 13:28:16

Highest Band Edge / 1 RB



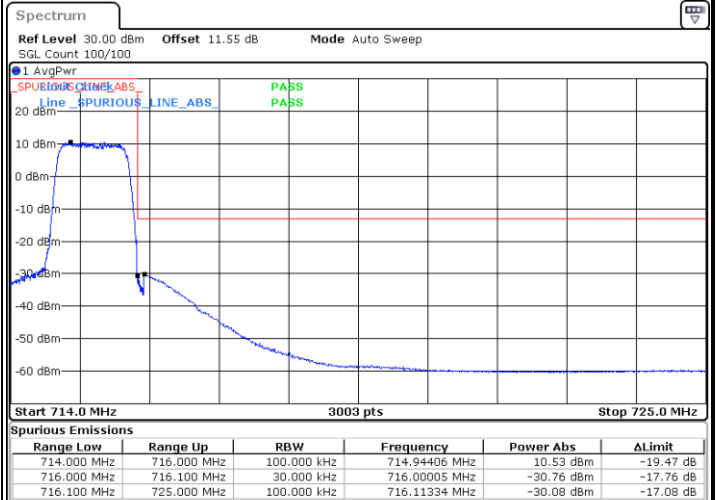
Date: 15.APR.2023 13:30:48

Lowest Band Edge / Full RB



Date: 15.APR.2023 13:27:20

Highest Band Edge / Full RB

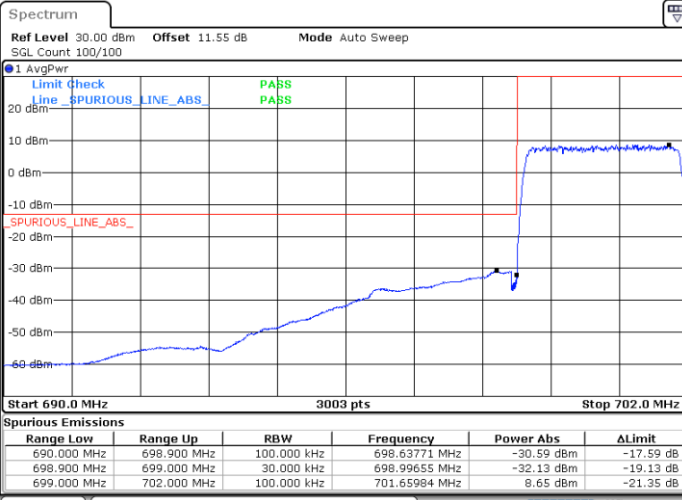


Date: 15.APR.2023 13:29:52



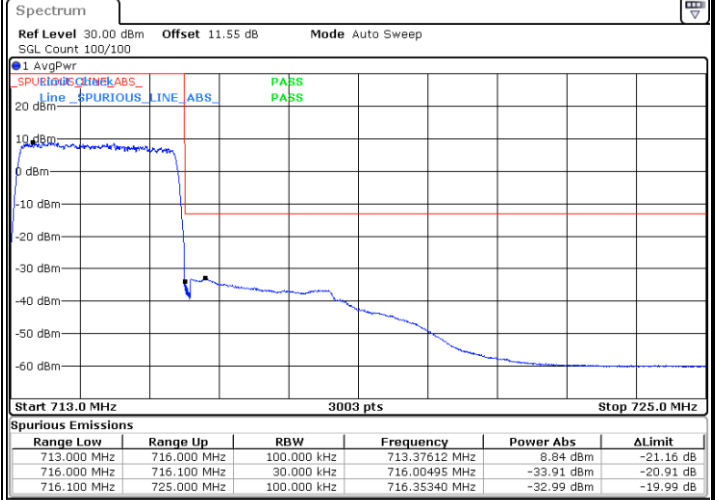
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / Full RB



Date: 15.APR.2023 13:32:27

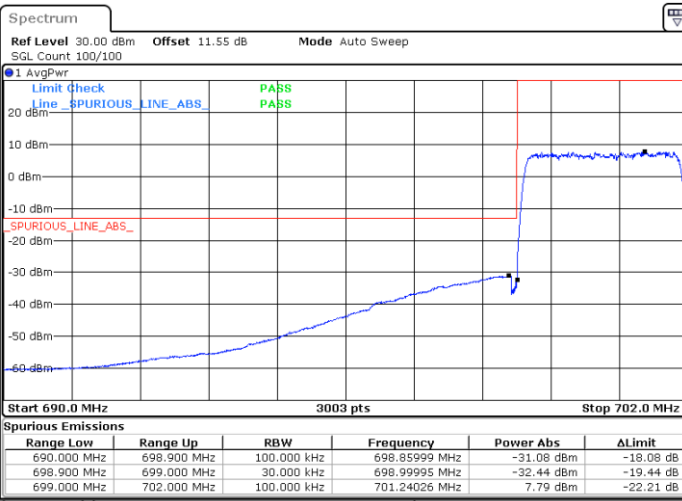
Highest Band Edge / Full RB



Date: 15.APR.2023 13:35:50

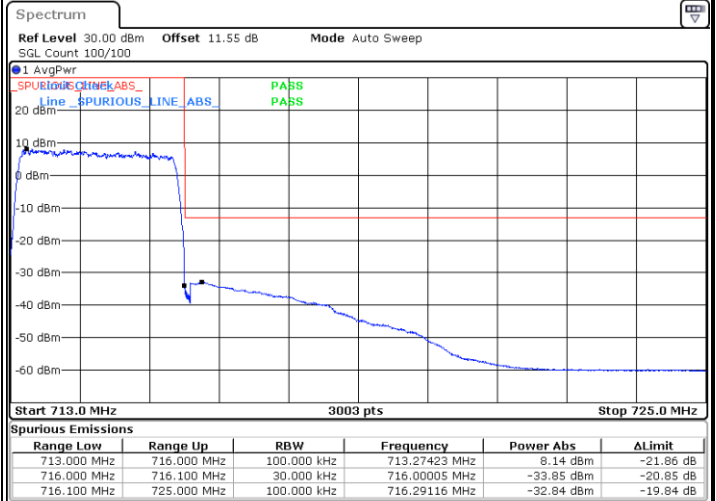
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / Full RB



Date: 15.APR.2023 13:33:24

Highest Band Edge / Full RB



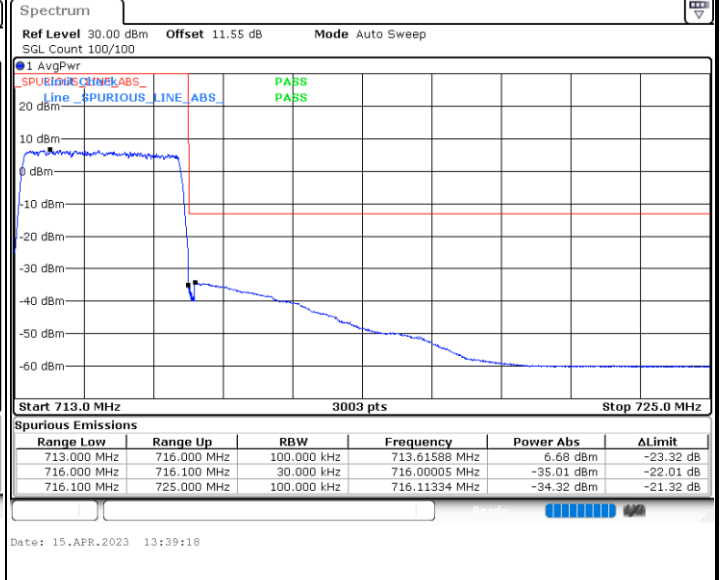
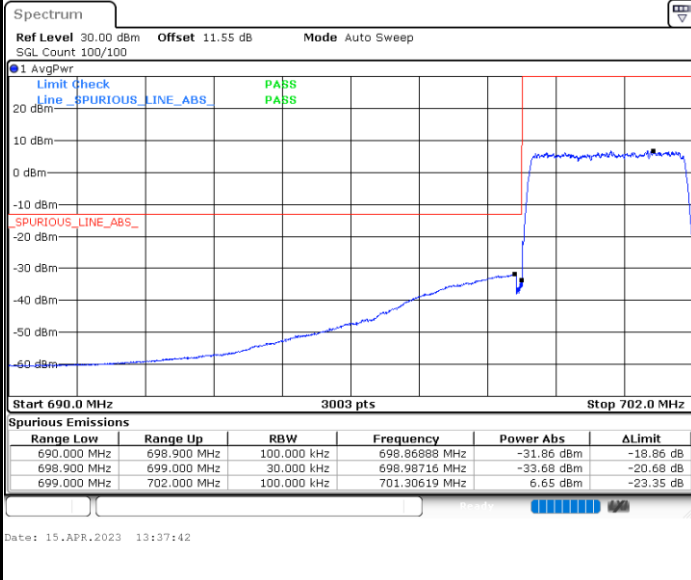
Date: 15.APR.2023 13:36:46



LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / Full RB

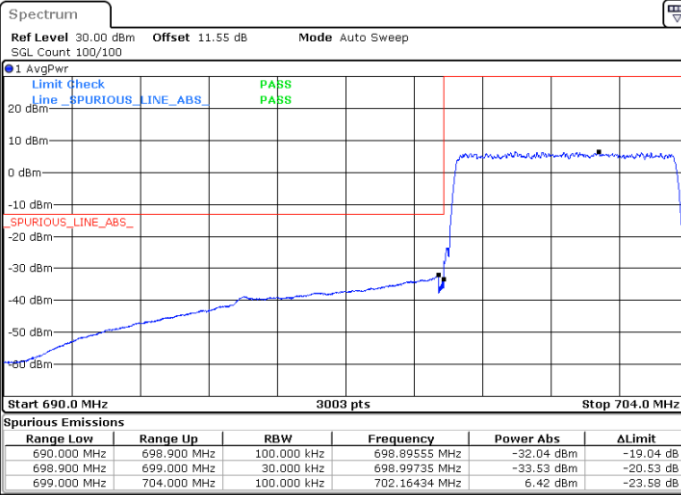
Highest Band Edge / Full RB





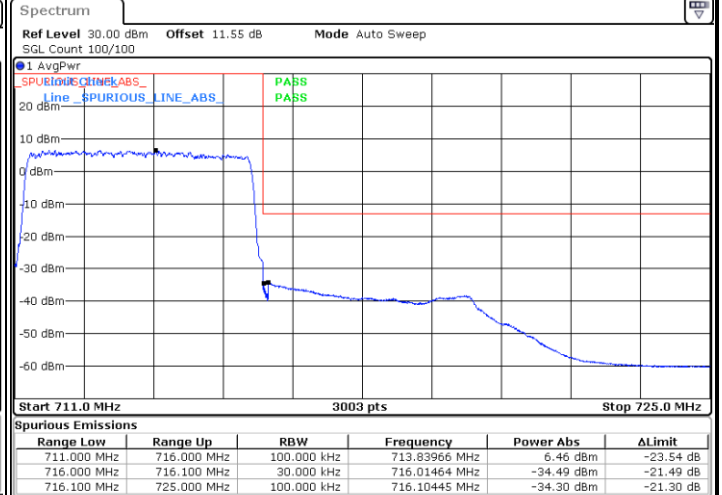
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 15.APR.2023 13:43:54

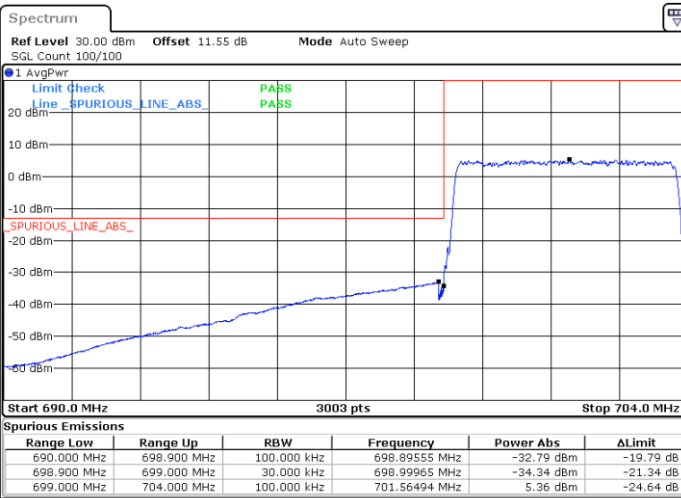
Highest Band Edge / Full RB



Date: 15.APR.2023 13:47:17

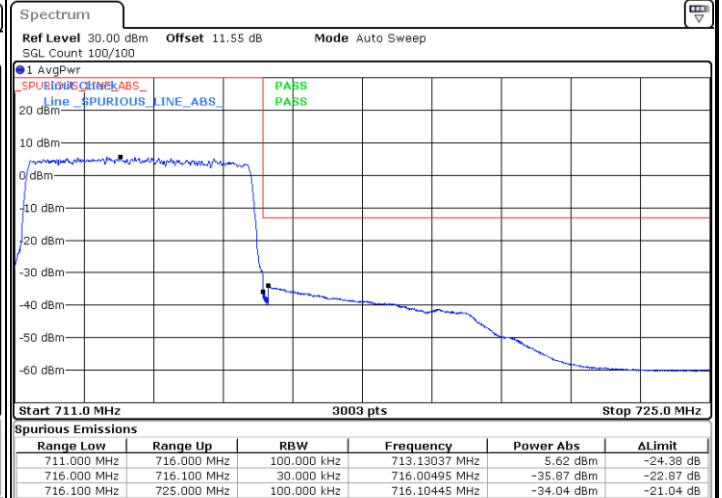
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 15.APR.2023 13:44:50

Highest Band Edge / Full RB



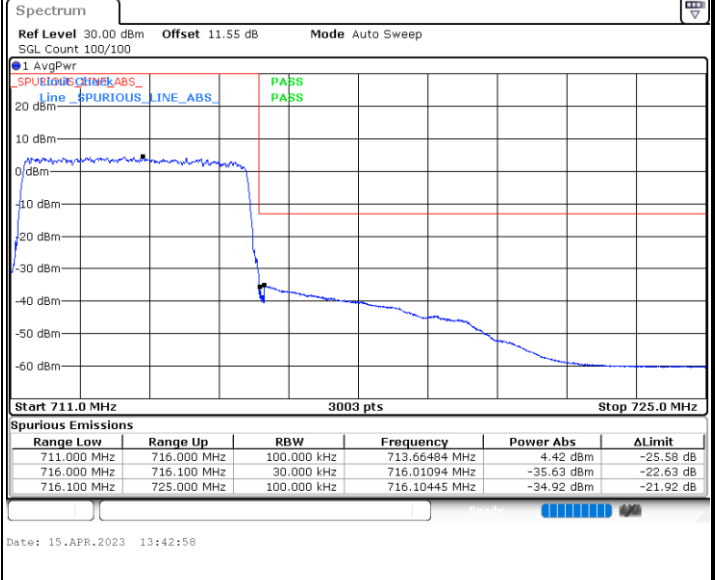
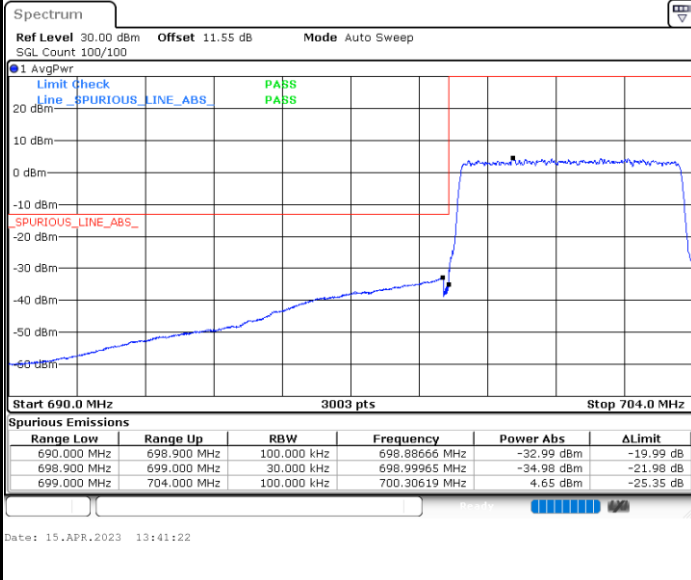
Date: 15.APR.2023 13:48:13



LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / Full RB

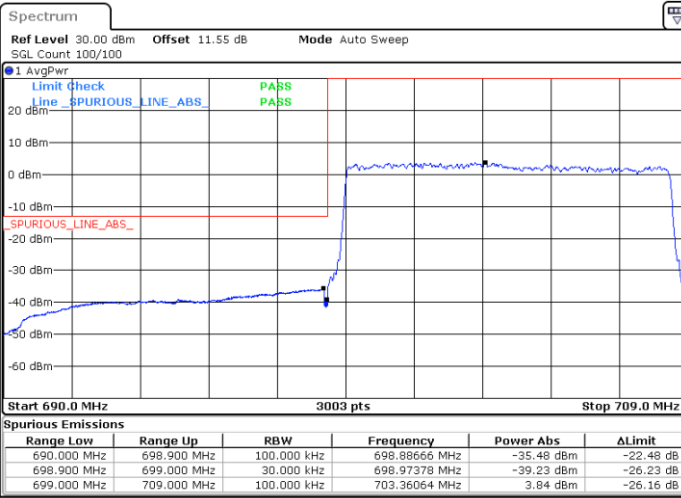
Highest Band Edge / Full RB





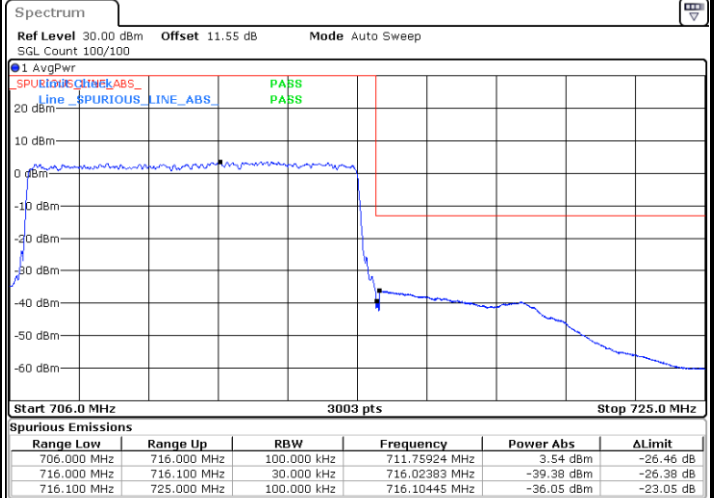
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 15.APR.2023 13:49:53

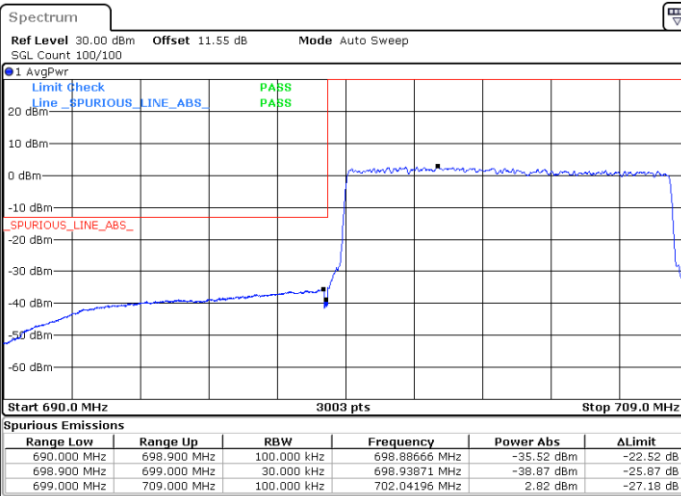
Highest Band Edge / Full RB



Date: 15.APR.2023 13:53:16

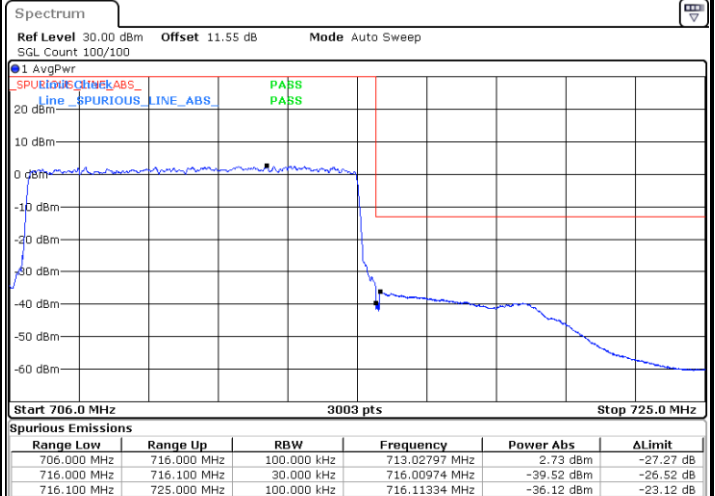
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 15.APR.2023 13:50:49

Highest Band Edge / Full RB



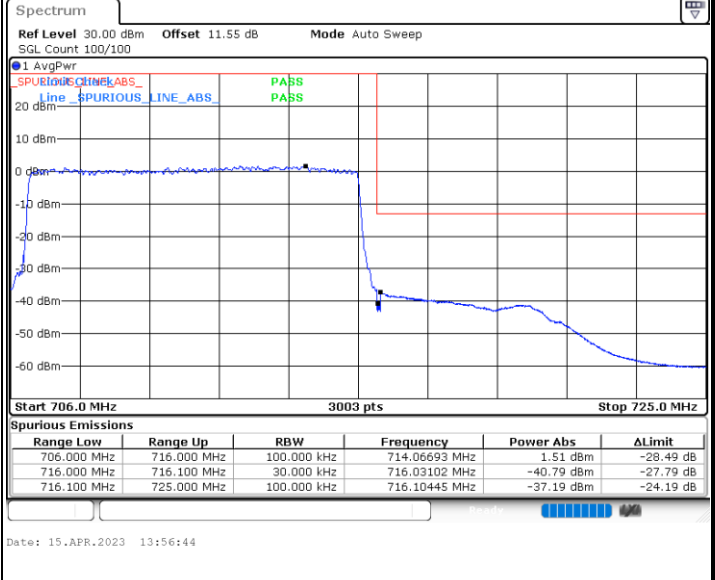
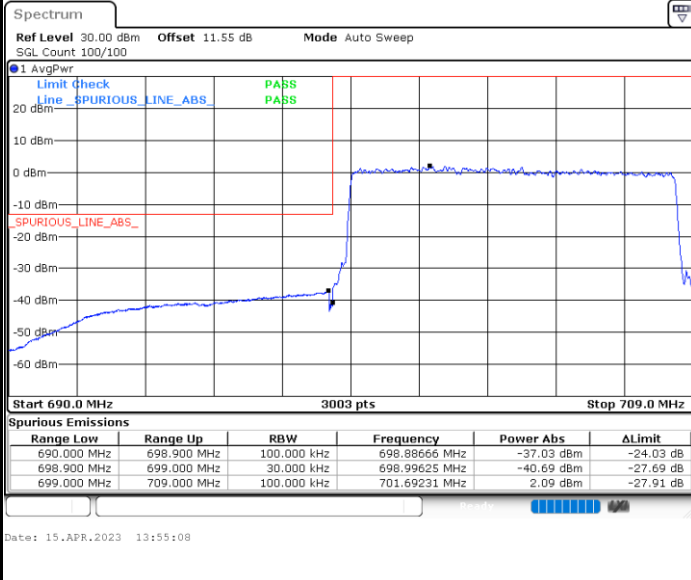
Date: 15.APR.2023 13:54:12



LTE Band 12 / 10MHz / 64QAM

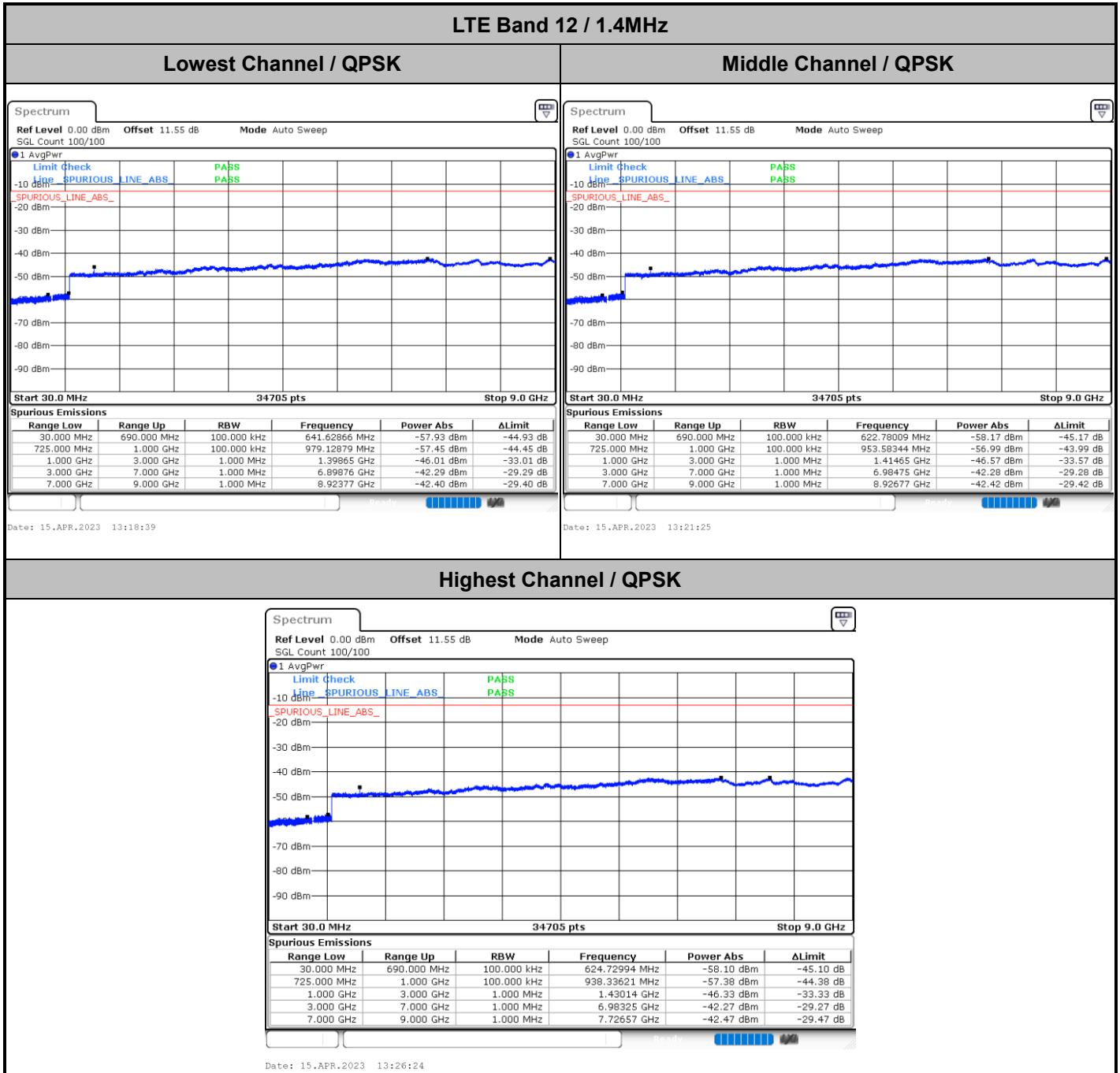
Lowest Band Edge / Full RB

Highest Band Edge / Full RB





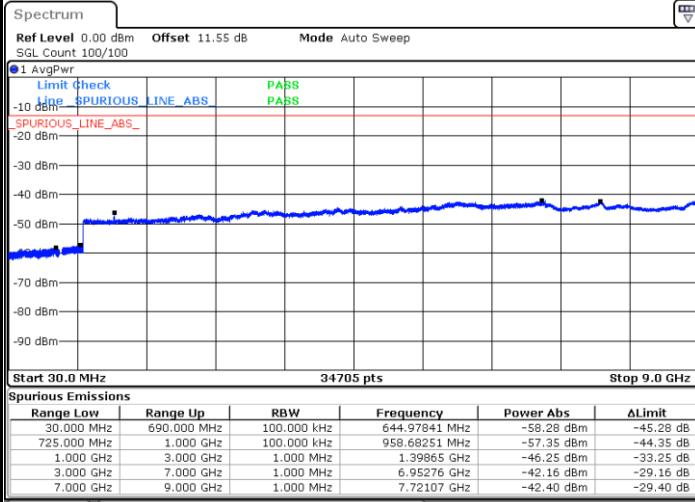
Conducted Spurious Emission





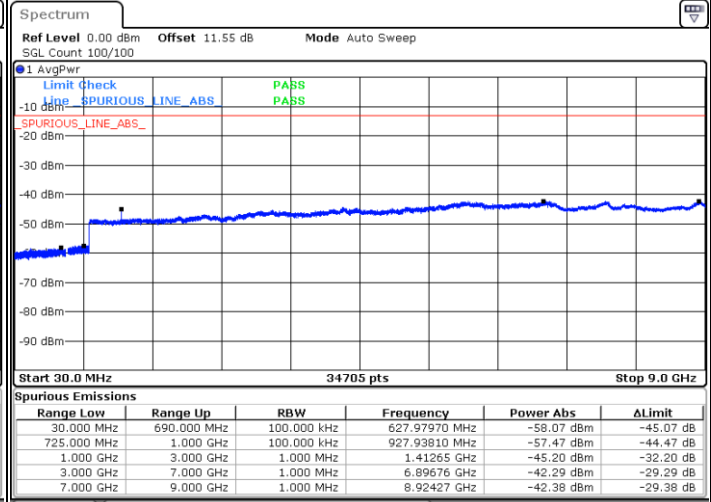
LTE Band 12 / 3MHz

Lowest Channel / QPSK



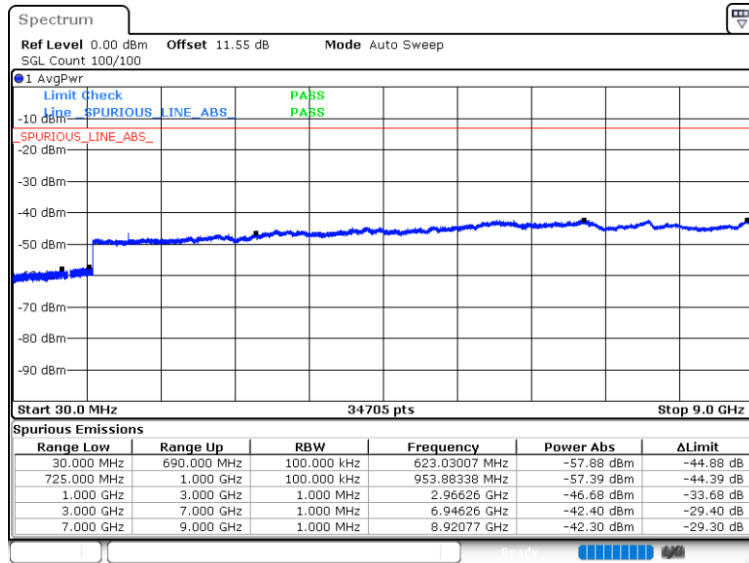
Date: 15.APR.2023 14:00:03

Middle Channel / QPSK



Date: 15.APR.2023 14:01:18

Highest Channel / QPSK



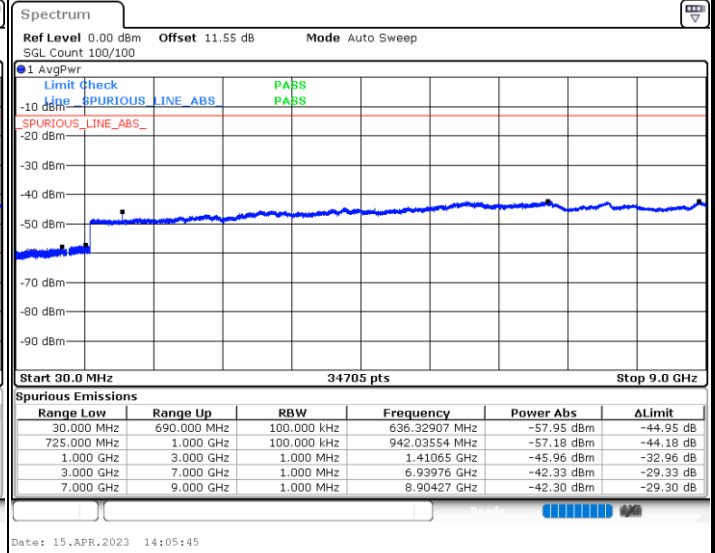
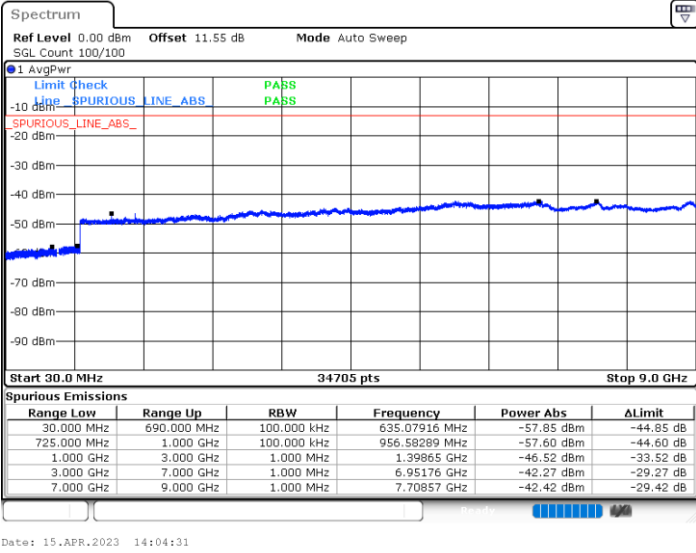
Date: 15.APR.2023 14:02:33



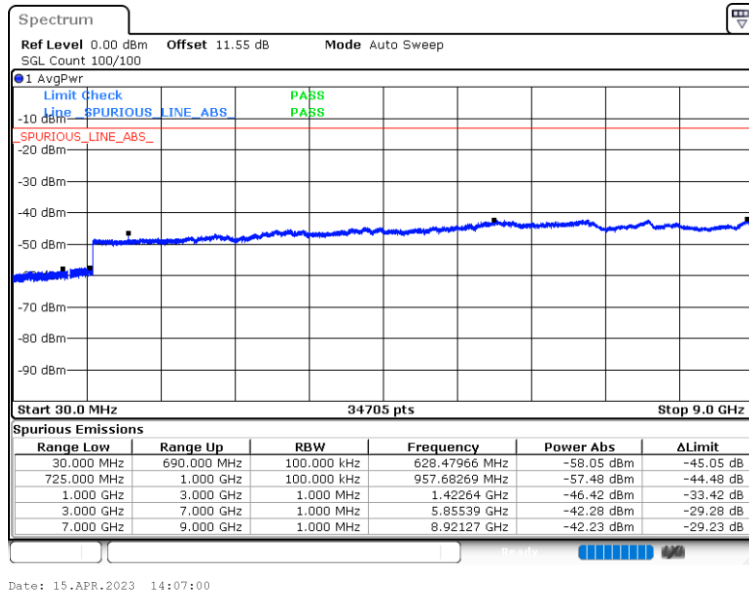
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

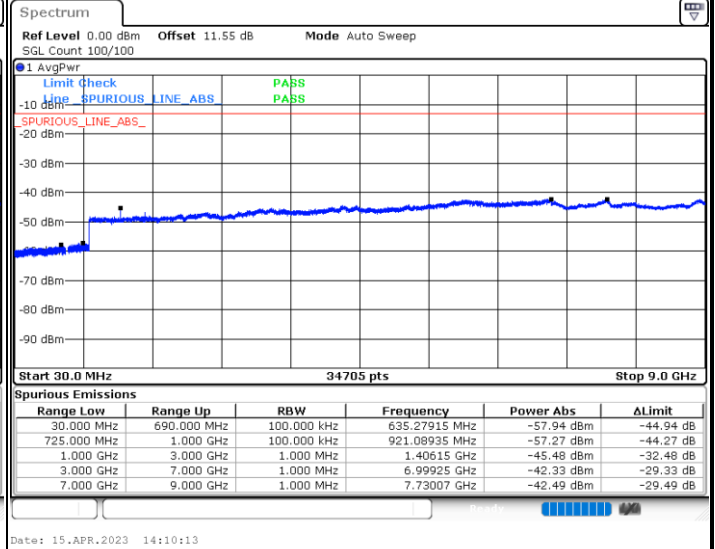
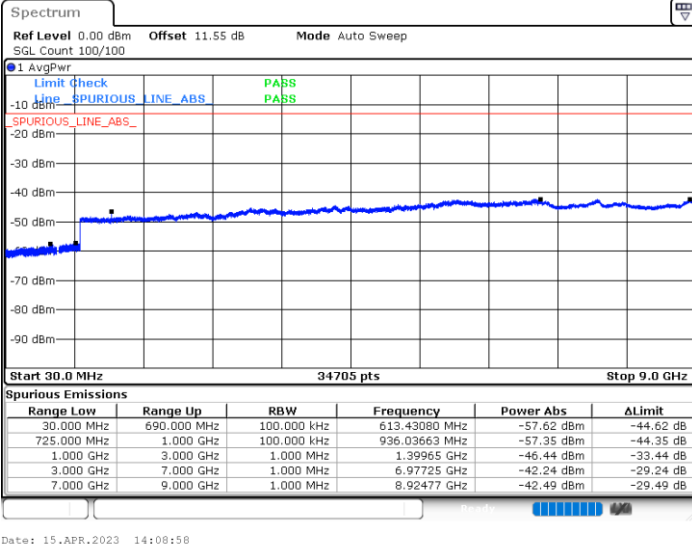




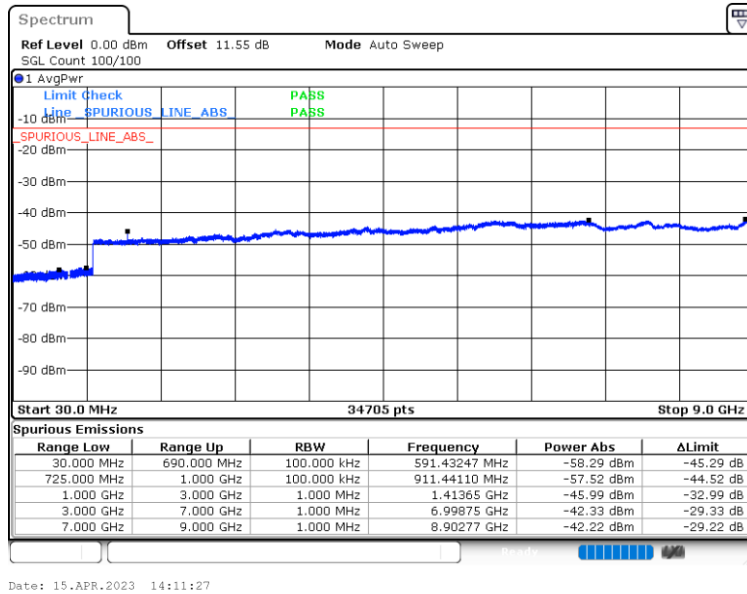
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0228	
30	Normal Voltage	0.0198	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0122	
-30	Normal Voltage	0.0123	
20	Maximum Voltage	0.0106	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0066	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage = 4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

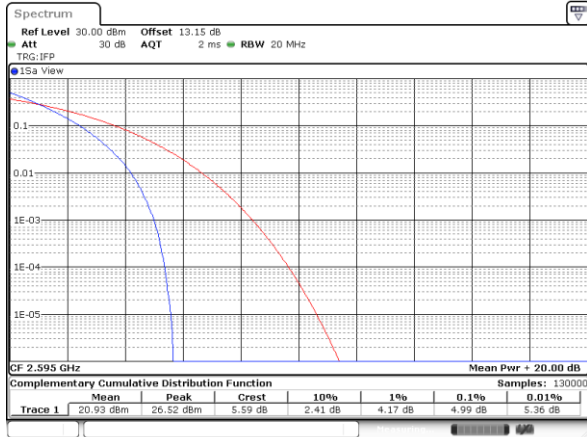
Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.99	5.88	6.23	PASS



LTE Band 38 / 20MHz / QPSK

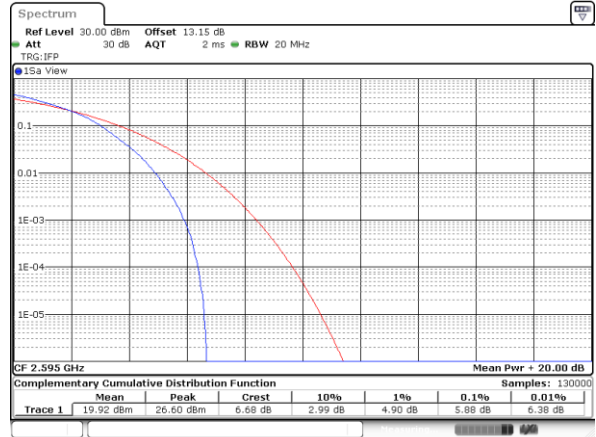
Middle Channel / Full RB



Date: 15.APR.2023 16:32:57

LTE Band 38 / 20MHz / 16QAM

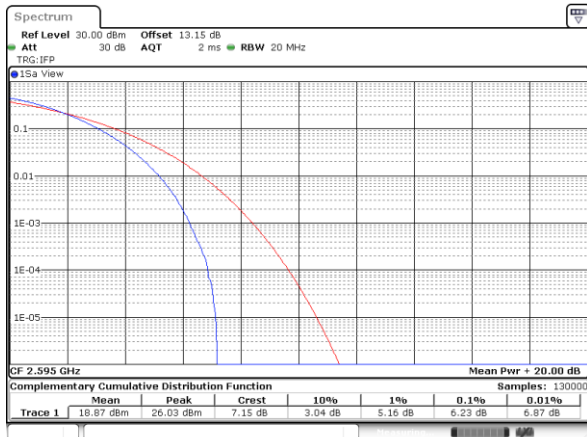
Middle Channel / Full RB



Date: 15.APR.2023 16:32:32

LTE Band 38 / 20MHz / 64QAM

Middle Channel / Full RB



Date: 15.APR.2023 16:32:08



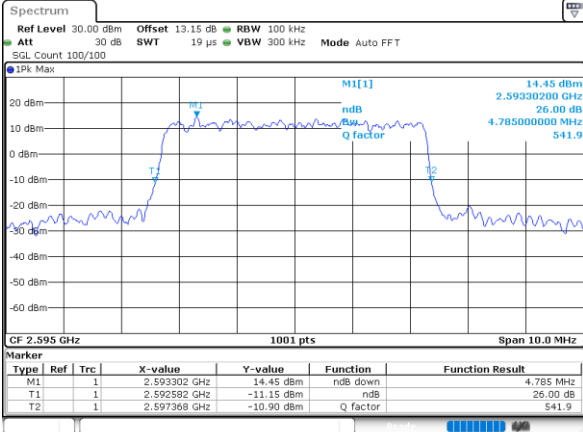
26dB Bandwidth

Mode	LTE Band 38 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.79	4.83	9.73	9.63	14.42	14.45	19.06	18.94
Mode	LTE Band 38 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Middle CH	4.82		9.69		14.15		18.70	



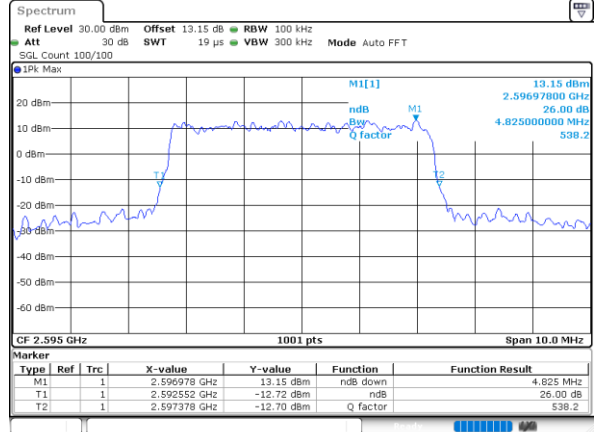
LTE Band 38

Middle Channel / 5MHz / QPSK



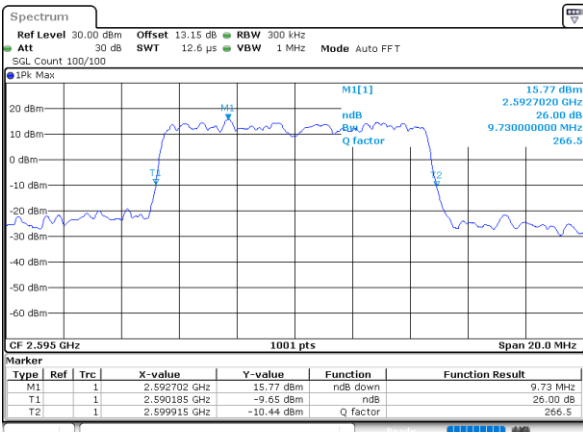
Date: 15.APR.2023 16:23:16

Middle Channel / 5MHz / 16QAM



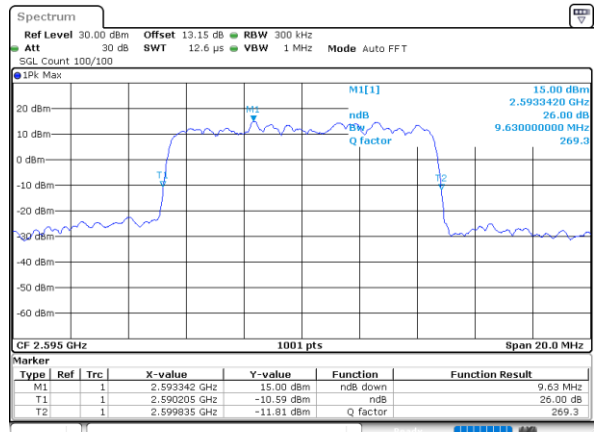
Date: 15.APR.2023 16:23:50

Middle Channel / 10MHz / QPSK



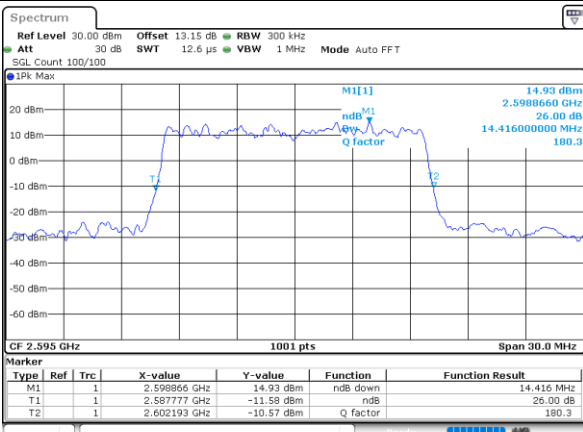
Date: 15.APR.2023 16:25:01

Middle Channel / 10MHz / 16QAM



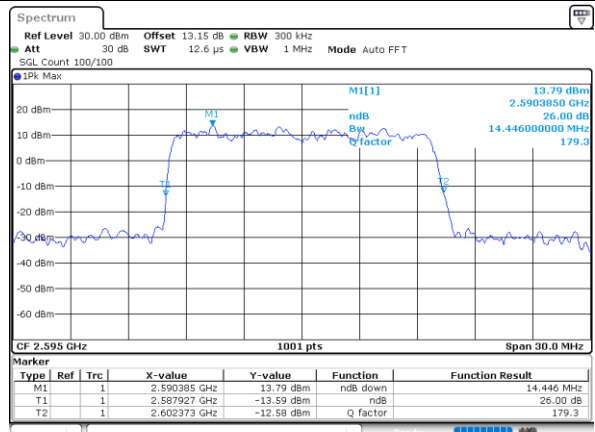
Date: 15.APR.2023 16:25:14

Middle Channel / 15MHz / QPSK



Date: 15.APR.2023 16:26:35

Middle Channel / 15MHz / 16QAM

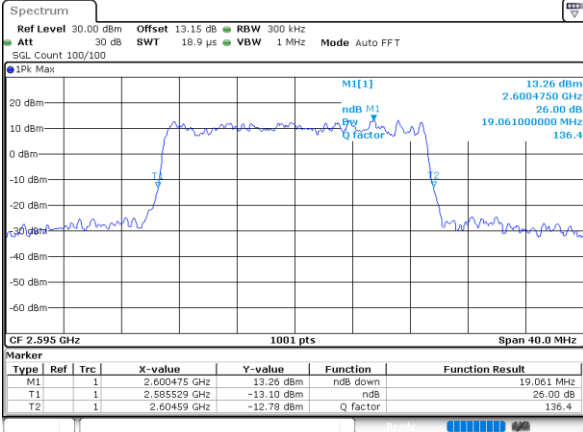


Date: 15.APR.2023 16:26:59



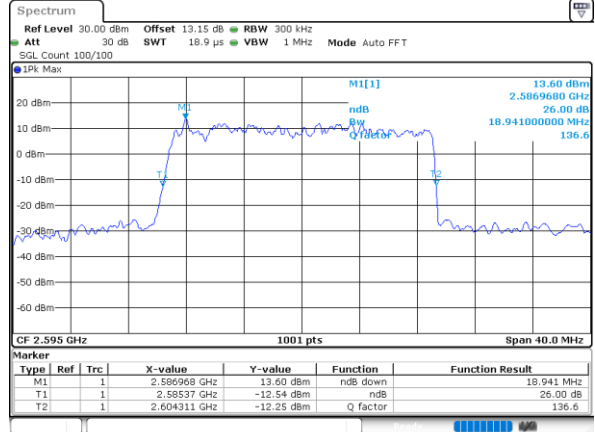
LTE Band 38

Middle Channel / 20MHz / QPSK



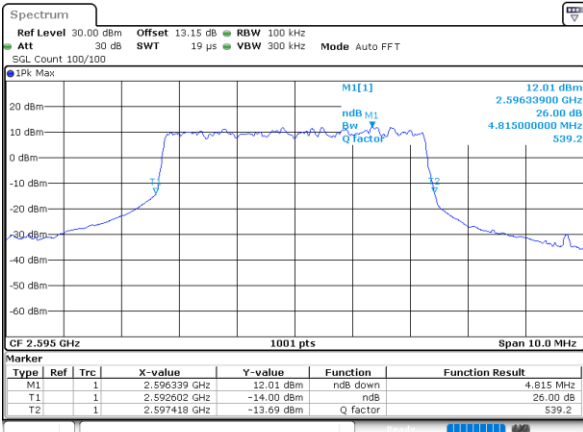
Date: 15.APR.2023 16:28:10

Middle Channel / 20MHz / 16QAM



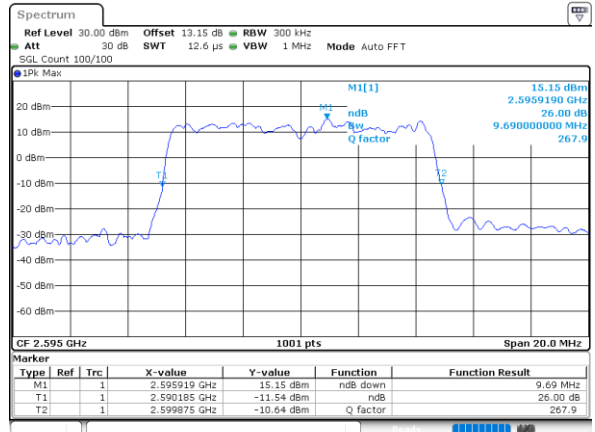
Date: 15.APR.2023 16:28:33

Middle Channel / 5MHz / 64QAM



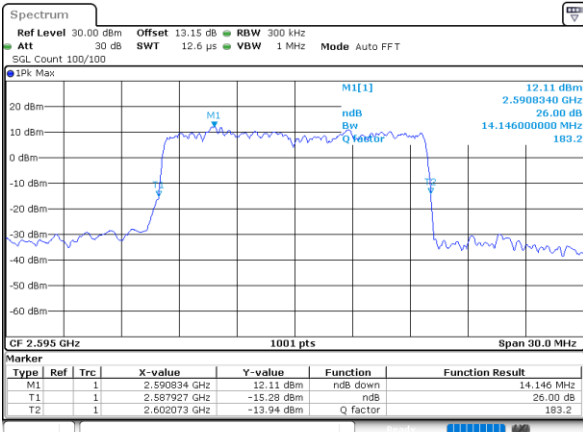
Date: 15.APR.2023 16:29:21

Middle Channel / 10MHz / 64QAM



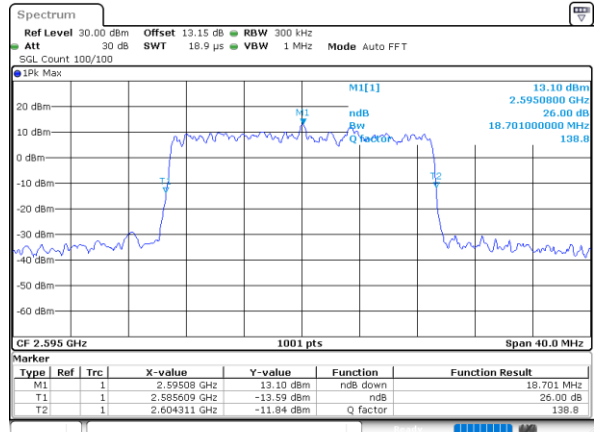
Date: 27.APR.2023 12:42:02

Middle Channel / 15MHz / 64QAM



Date: 15.APR.2023 16:30:56

Middle Channel / 20MHz / 64QAM



Date: 15.APR.2023 16:31:43



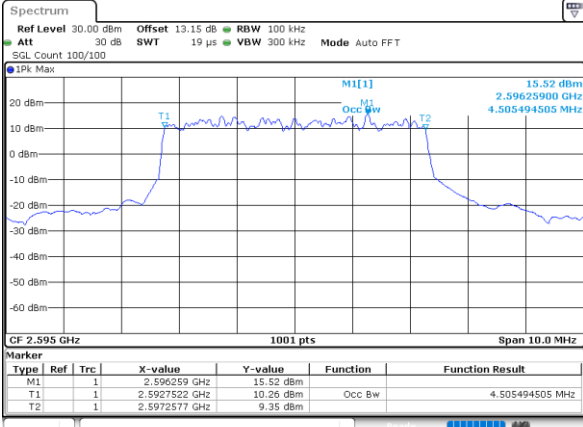
Occupied Bandwidth

Mode	LTE Band 38 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.51	4.48	9.01	9.03	13.46	13.43	17.90	17.78
Mode	LTE Band 38 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Middle CH	4.52		9.01		13.40		17.82	



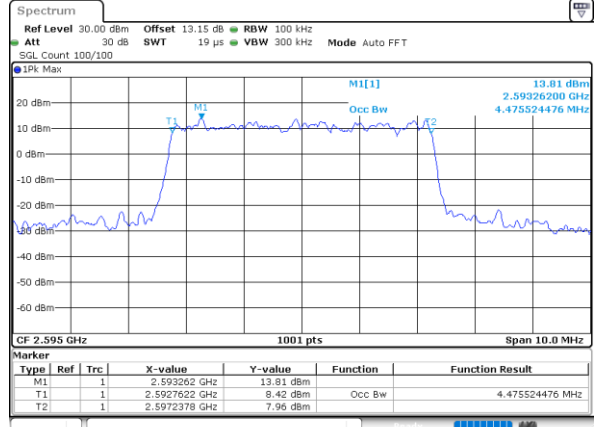
LTE Band 38

Middle Channel / 5MHz / QPSK



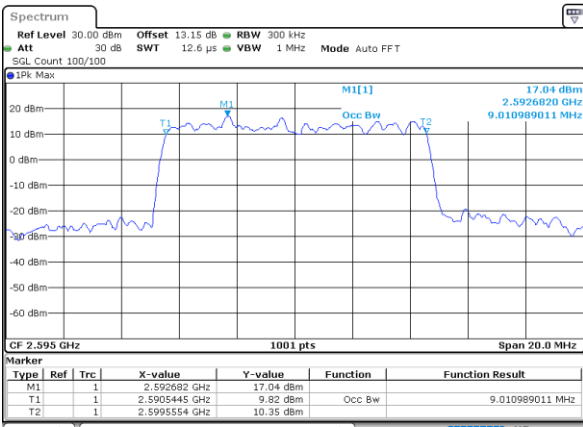
Date: 15.APR.2023 16:22:40

Middle Channel / 5MHz / 16QAM



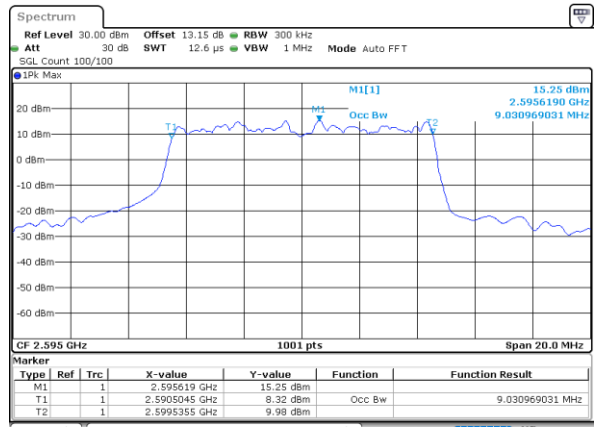
Date: 15.APR.2023 16:23:03

Middle Channel / 10MHz / QPSK



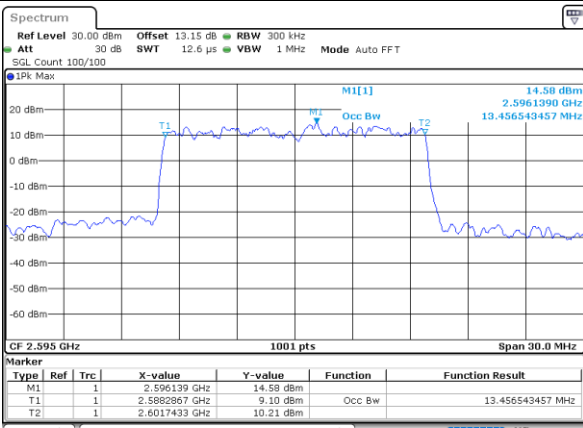
Date: 15.APR.2023 16:24:14

Middle Channel / 10MHz / 16QAM



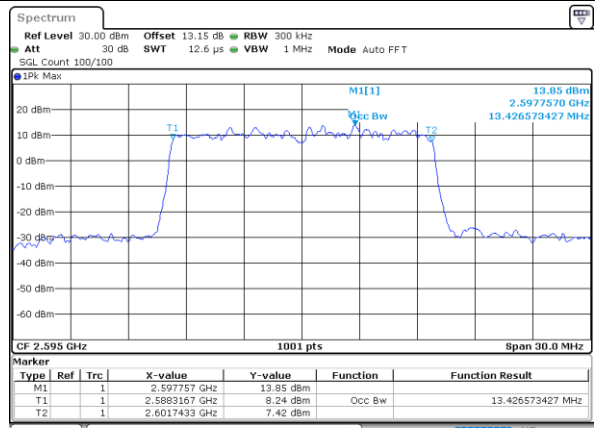
Date: 15.APR.2023 16:24:37

Middle Channel / 15MHz / QPSK



Date: 15.APR.2023 16:25:48

Middle Channel / 15MHz / 16QAM

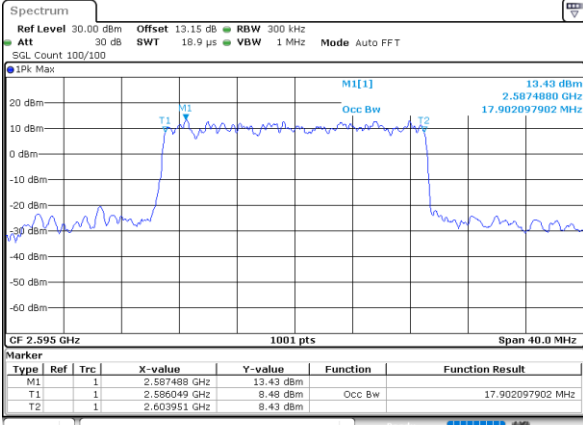


Date: 15.APR.2023 16:26:12



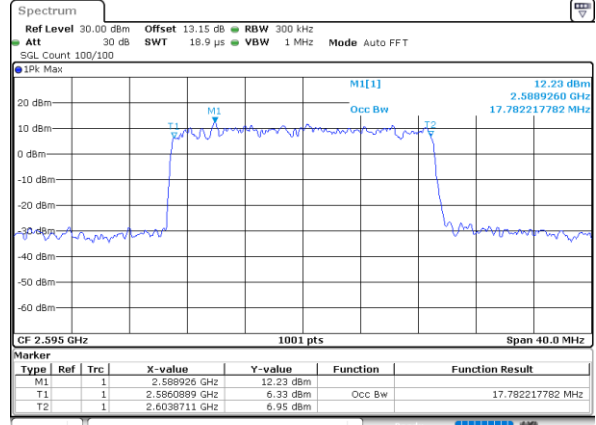
LTE Band 38

Middle Channel / 20MHz / QPSK



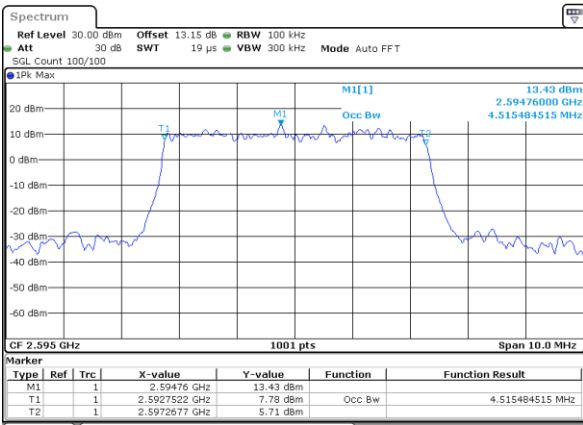
Date: 15_APR.2023 16:27:23

Middle Channel / 20MHz / 16QAM



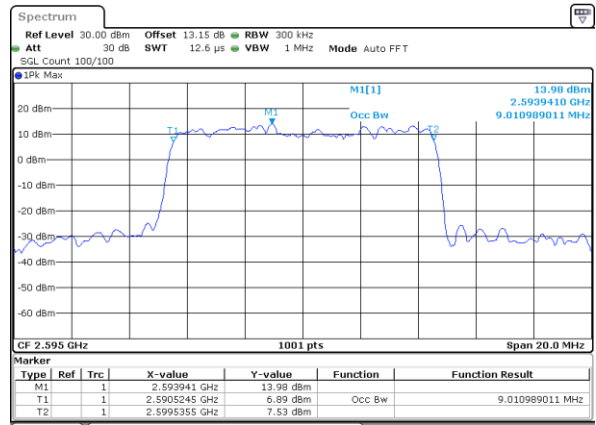
Date: 15_APR.2023 16:27:46

Middle Channel / 5MHz / 64QAM



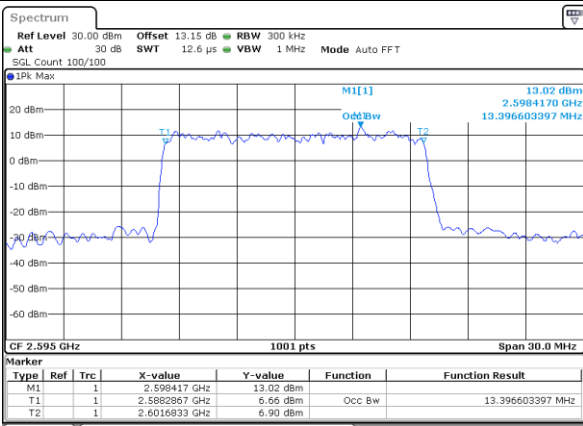
Date: 15_APR.2023 16:28:57

Middle Channel / 10MHz / 64QAM



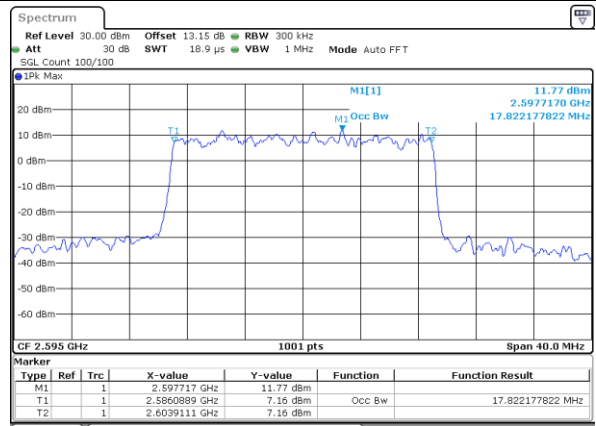
Date: 15_APR.2023 16:29:45

Middle Channel / 15MHz / 64QAM



Date: 15_APR.2023 16:30:32

Middle Channel / 20MHz / 64QAM



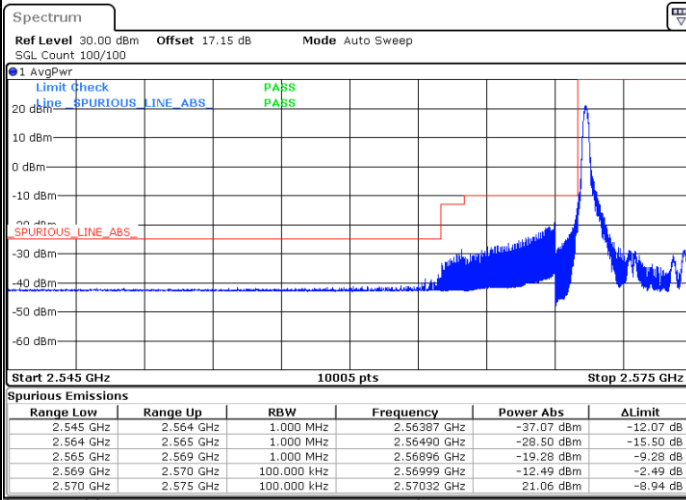
Date: 15_APR.2023 16:31:20



Conducted Band Edge

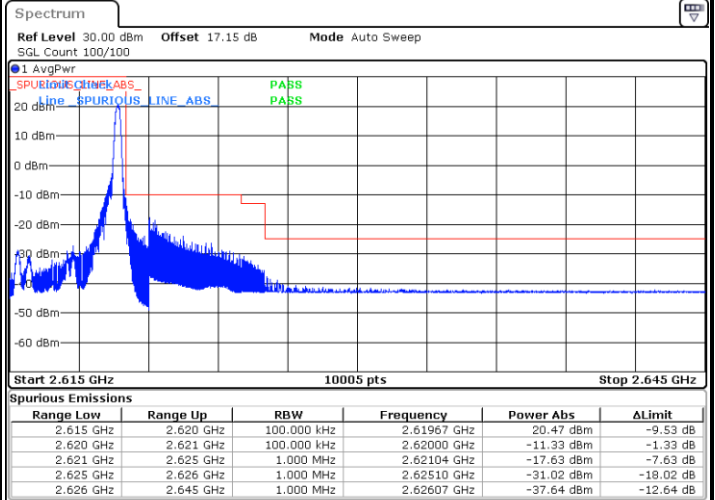
LTE Band 38 / 5MHz / QPSK

Lowest Band Edge / 1 RB



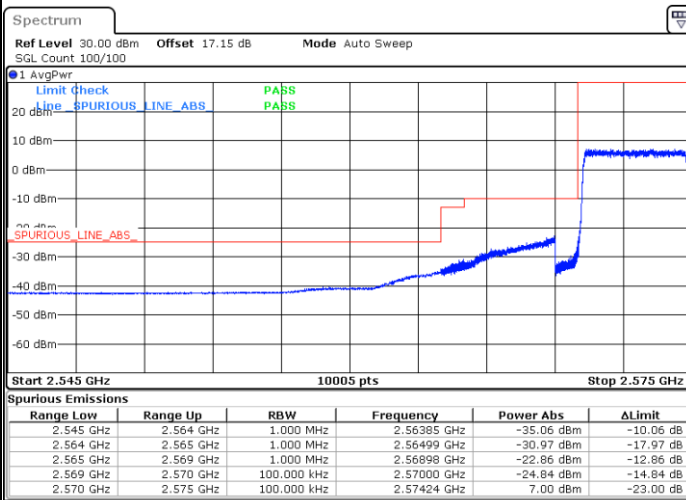
Date: 15.APR.2023 16:36:37

Highest Band Edge / 1 RB



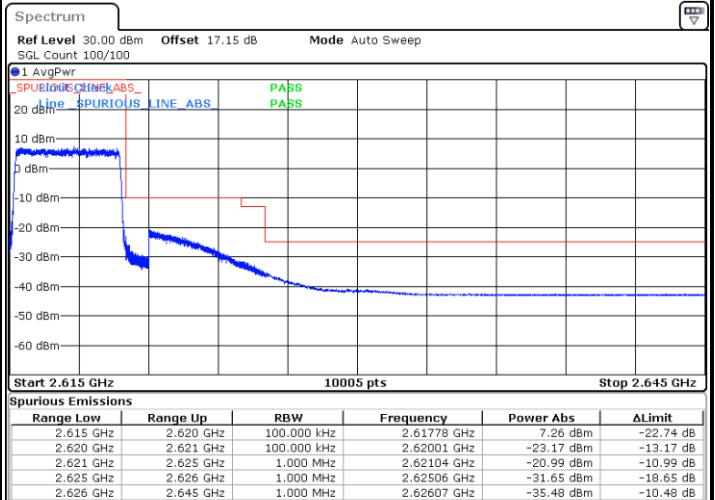
Date: 15.APR.2023 16:42:00

Lowest Band Edge / Full RB



Date: 15.APR.2023 16:38:25

Highest Band Edge / Full RB

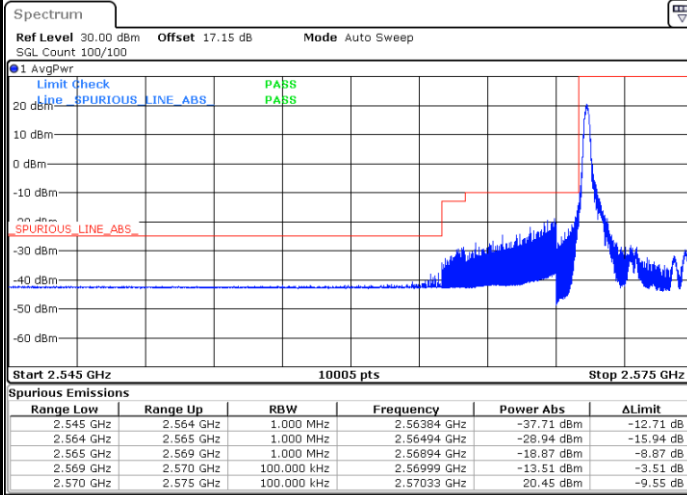


Date: 15.APR.2023 16:40:12



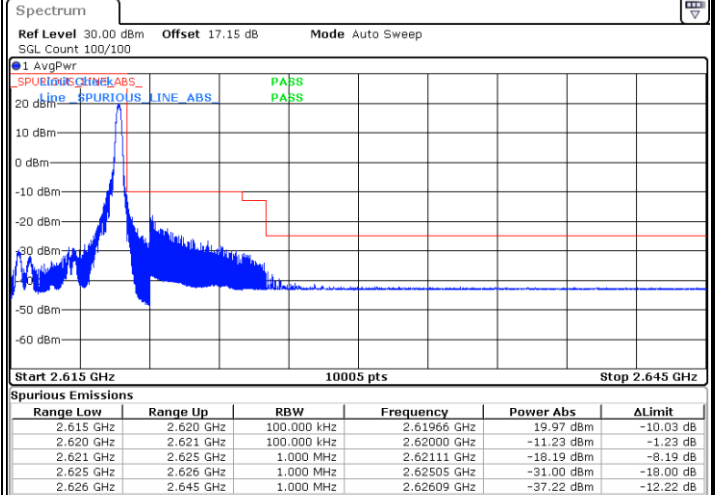
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



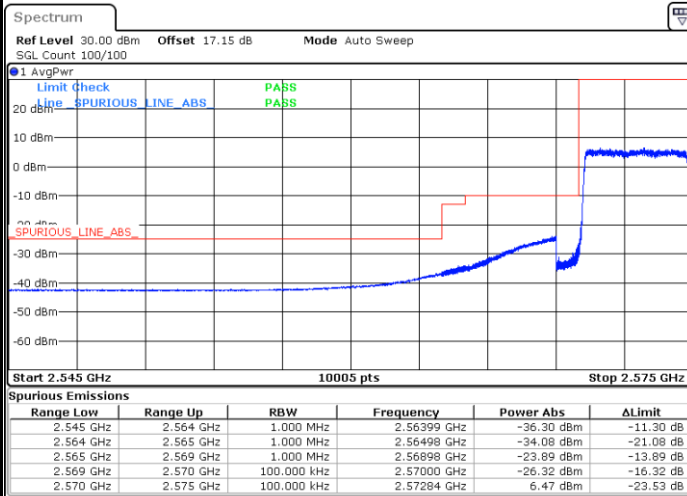
Date: 15.APR.2023 16:37:31

Highest Band Edge / 1 RB



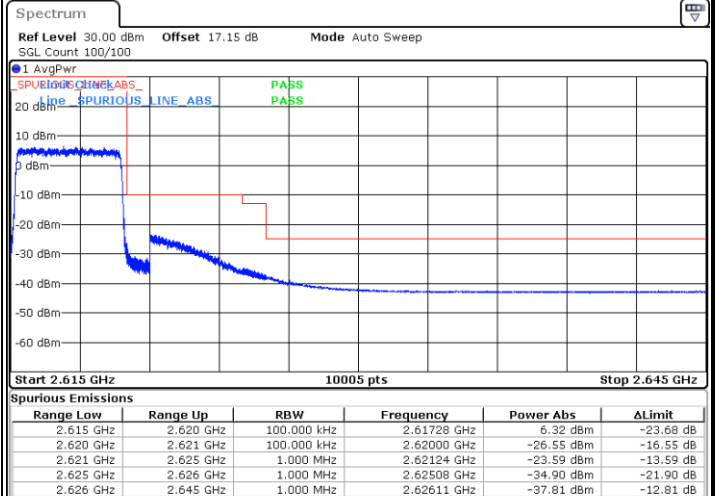
Date: 15.APR.2023 16:42:53

Lowest Band Edge / Full RB



Date: 15.APR.2023 16:39:18

Highest Band Edge / Full RB

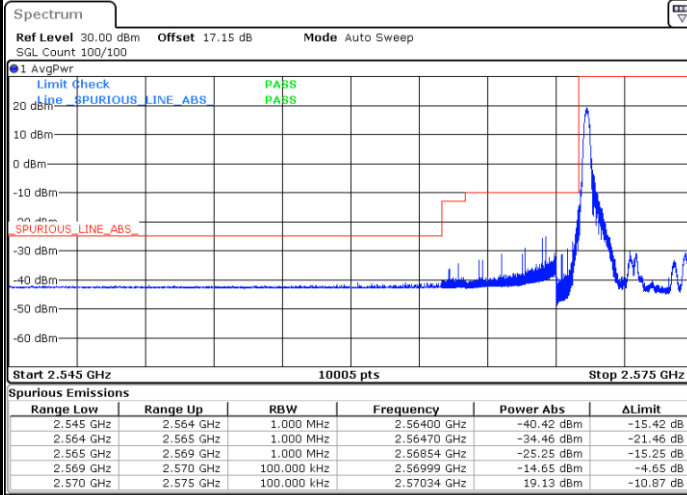


Date: 15.APR.2023 16:41:06



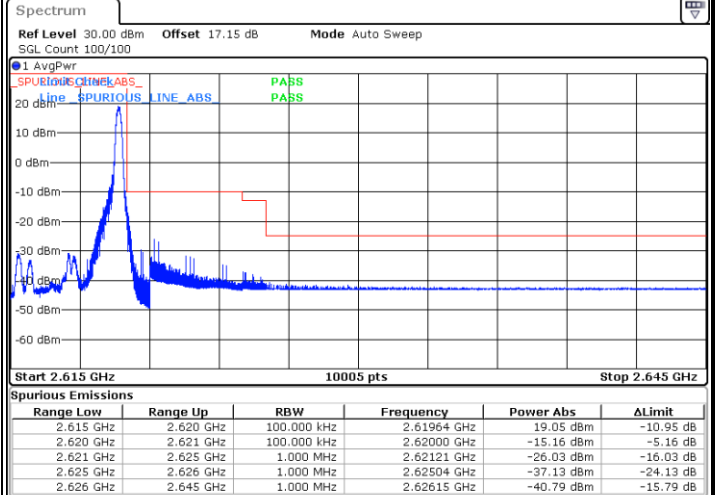
LTE Band 38 / 5MHz / 64QAM

Lowest Band Edge / 1RB



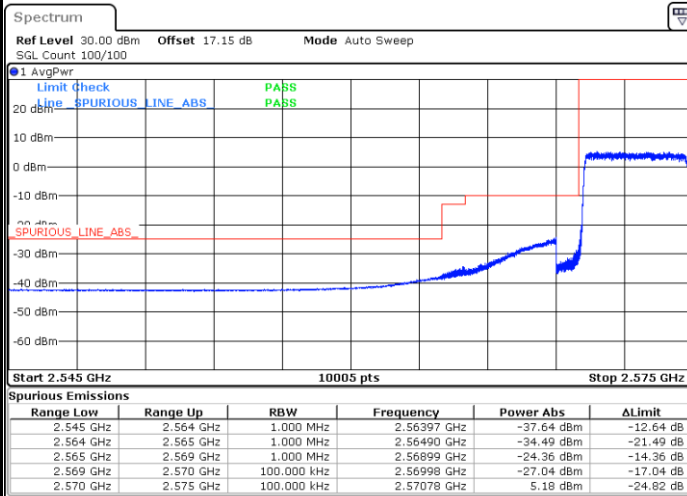
Date: 15.APR.2023 16:43:47

Highest Band Edge / 1 RB



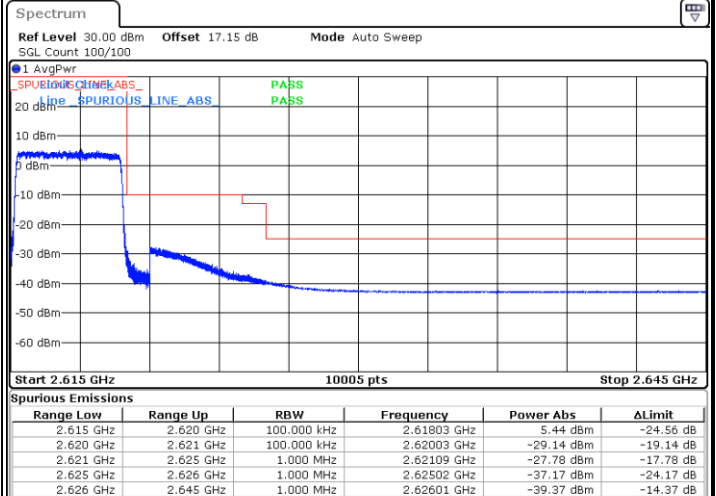
Date: 15.APR.2023 16:46:29

Lowest Band Edge / Full RB



Date: 15.APR.2023 16:44:41

Highest Band Edge / Full RB

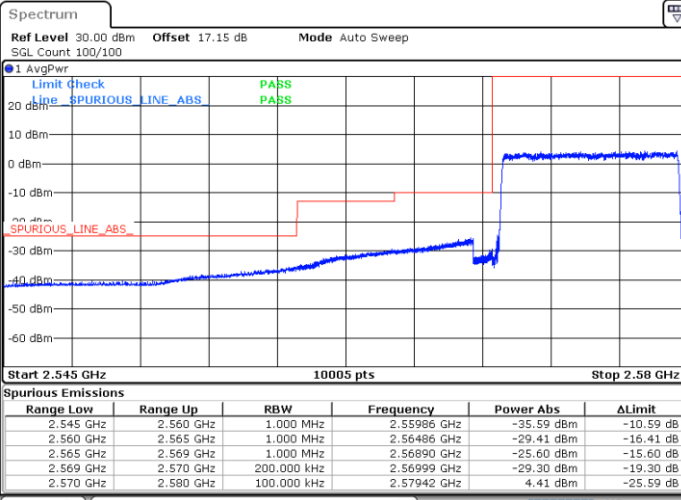


Date: 15.APR.2023 16:45:35



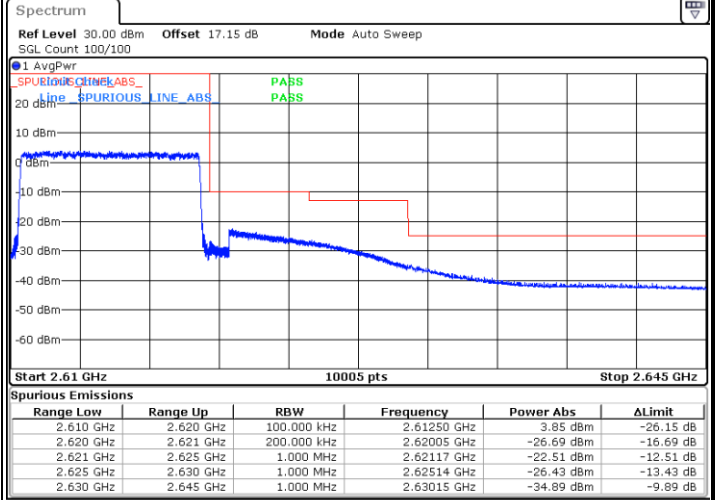
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 15.APR.2023 16:49:10

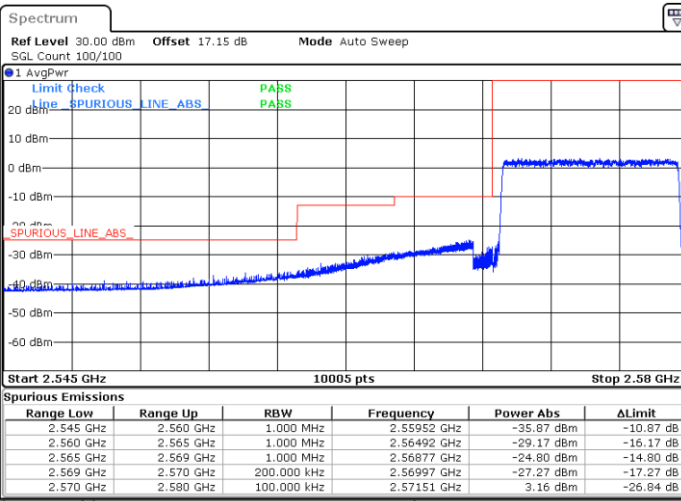
Highest Band Edge / Full RB



Date: 15.APR.2023 16:50:58

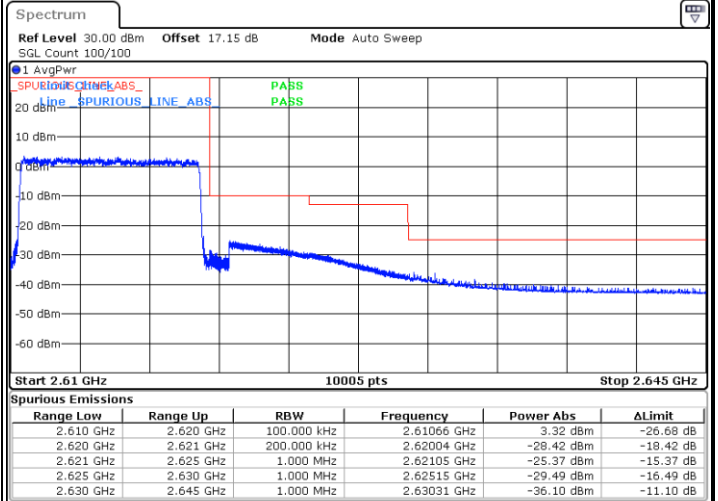
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 15.APR.2023 16:50:04

Highest Band Edge / Full RB



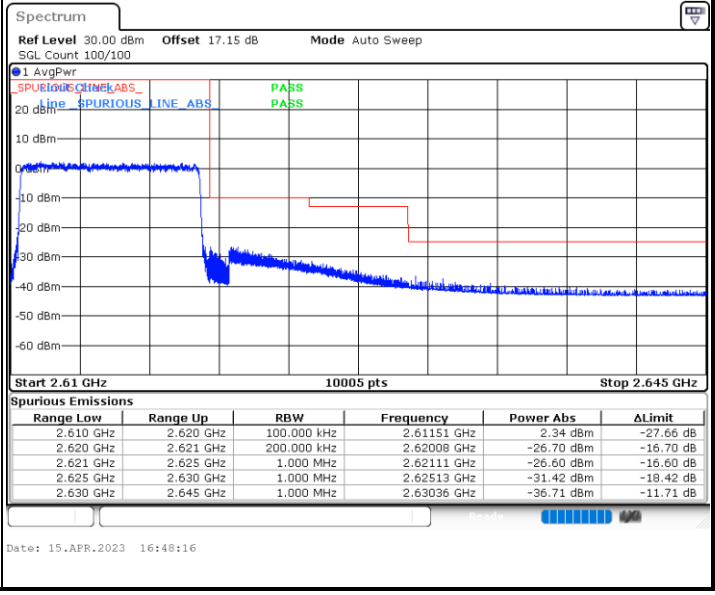
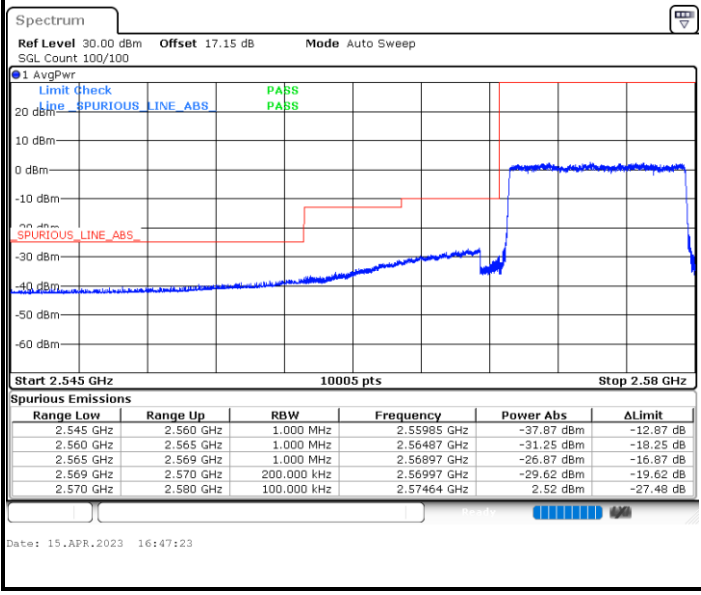
Date: 15.APR.2023 16:51:52



LTE Band 38 / 10MHz / 64QAM

Lowest Band Edge / Full RB

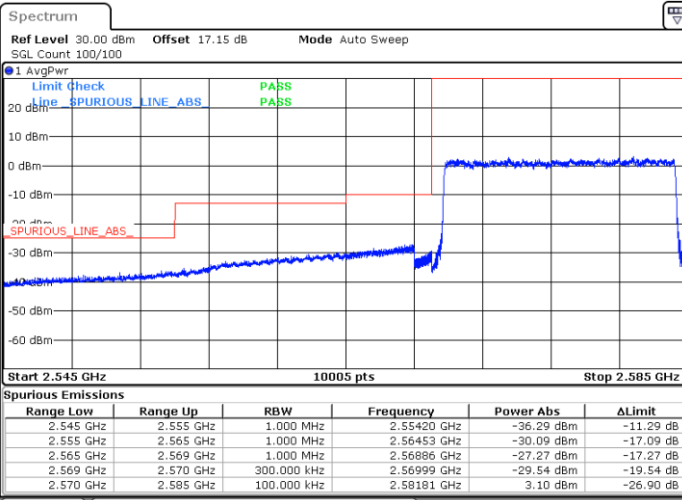
Highest Band Edge / Full RB





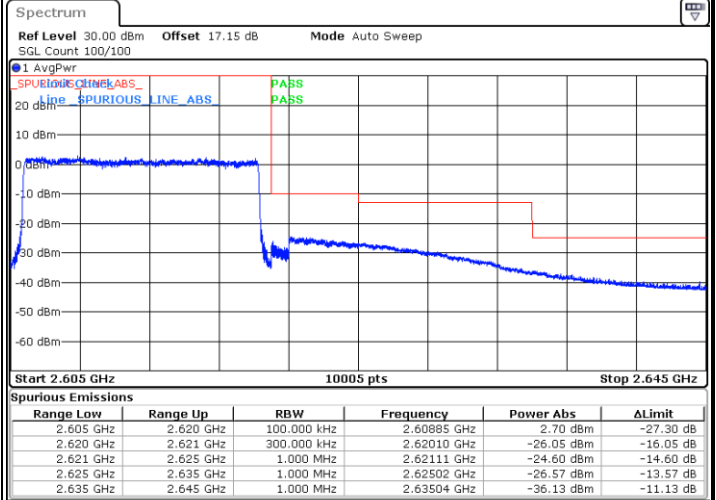
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 15.APR.2023 16:52:46

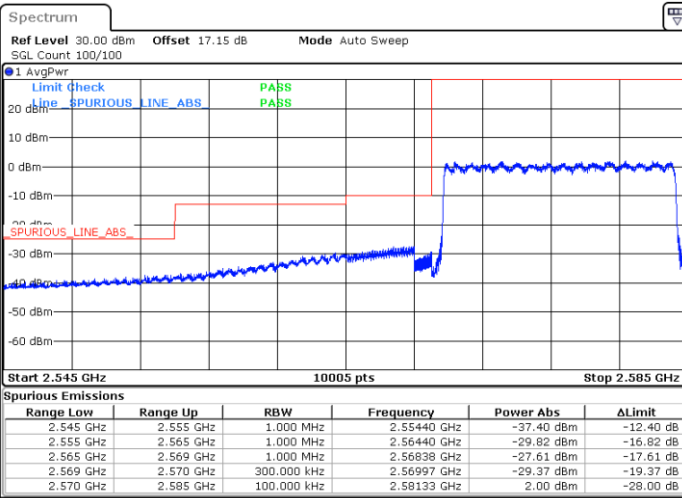
Highest Band Edge / Full RB



Date: 15.APR.2023 16:54:33

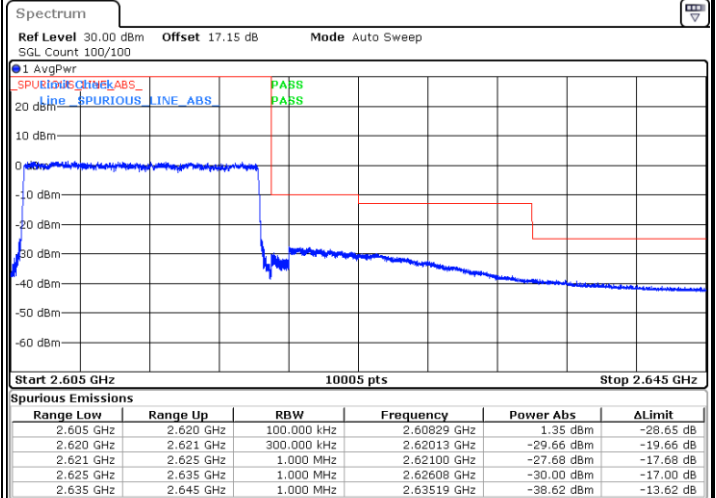
LTE Band 38 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 15.APR.2023 16:53:40

Highest Band Edge / Full RB



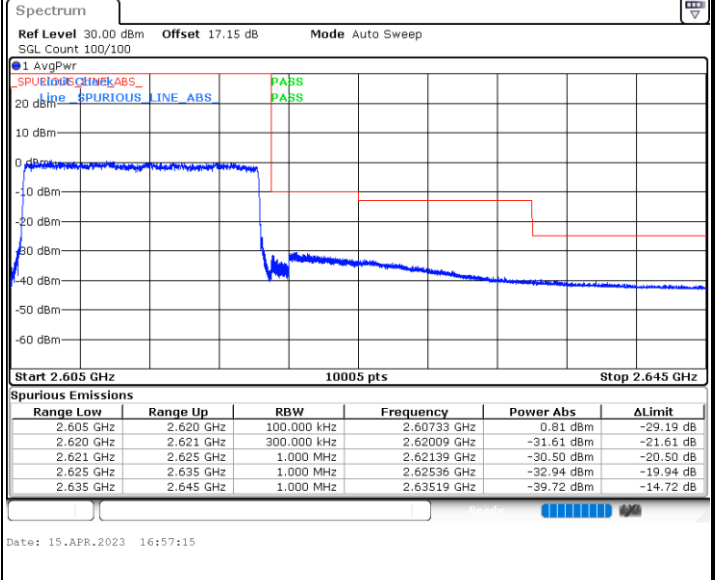
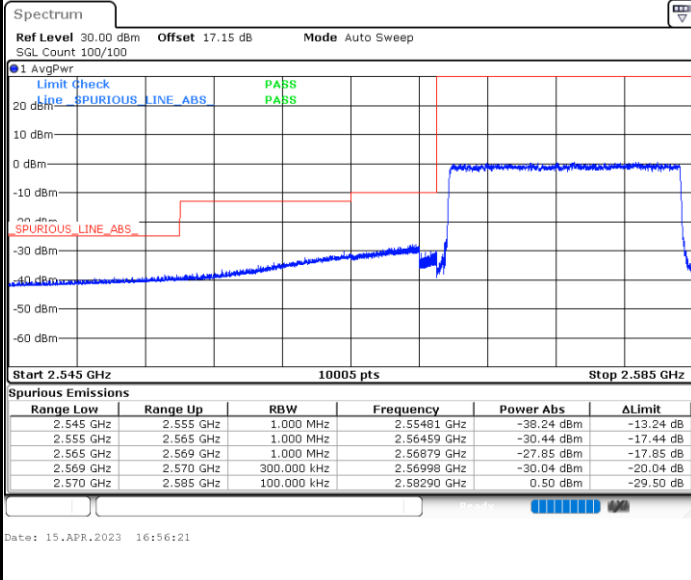
Date: 15.APR.2023 16:55:27



LTE Band 38 / 15MHz / 64QAM

Lowest Band Edge / Full RB

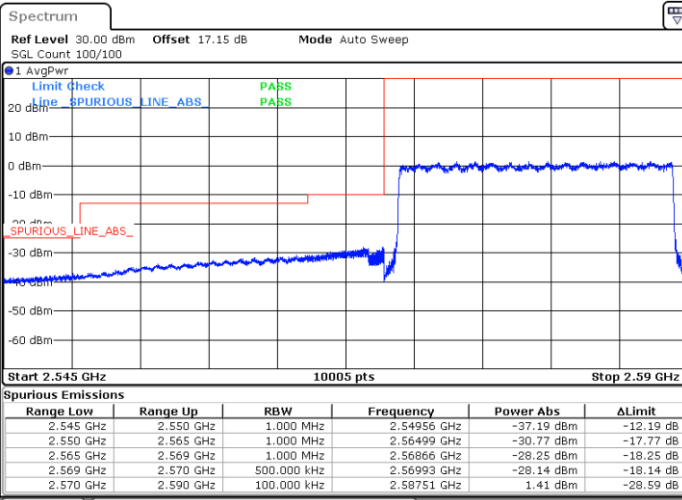
Highest Band Edge / Full RB





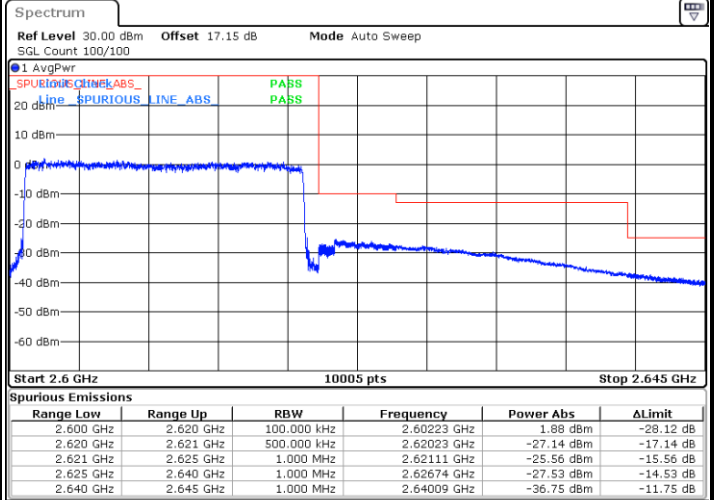
LTE Band 38 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 15.APR.2023 16:58:09

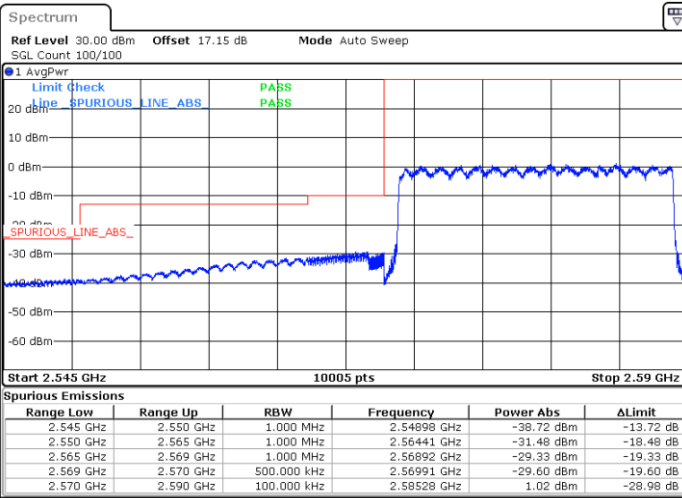
Highest Band Edge / Full RB



Date: 15.APR.2023 16:59:57

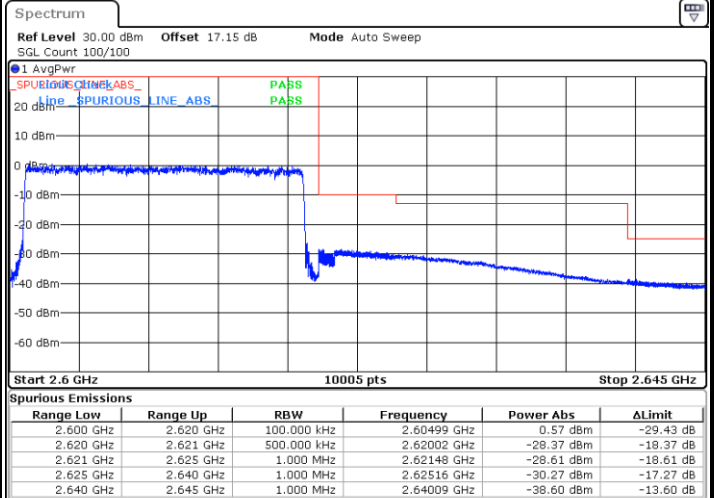
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 15.APR.2023 16:59:03

Highest Band Edge / Full RB



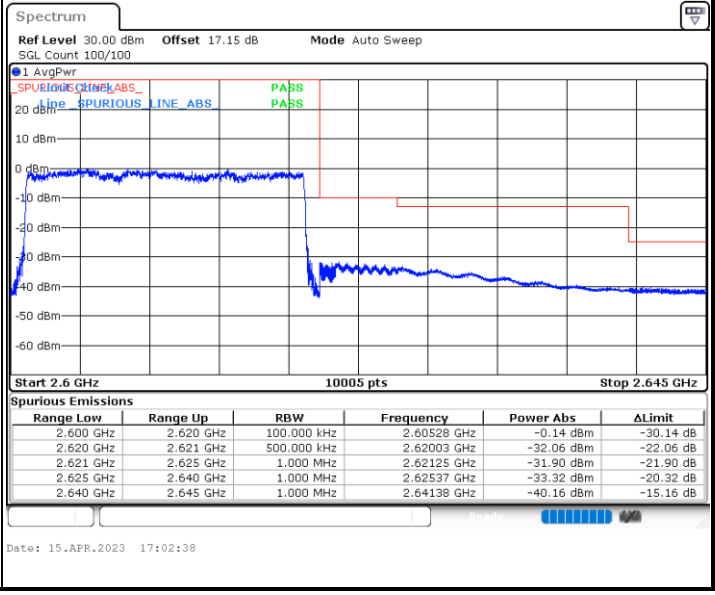
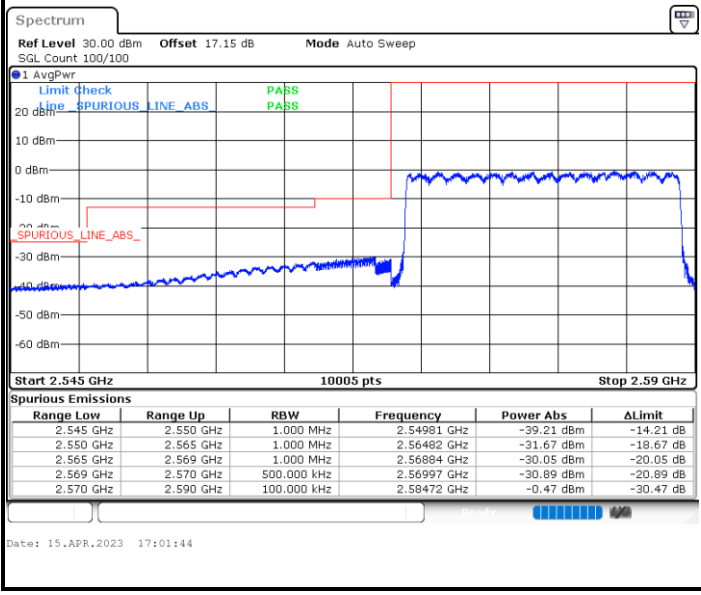
Date: 15.APR.2023 17:00:51



LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



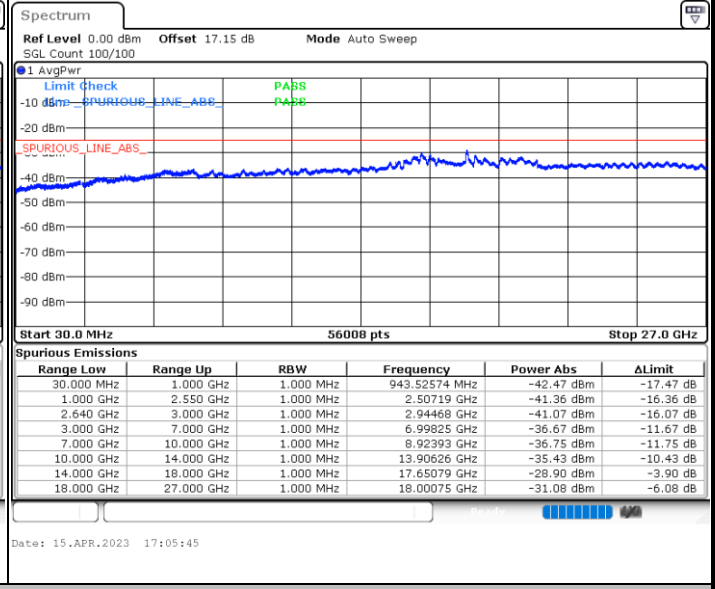
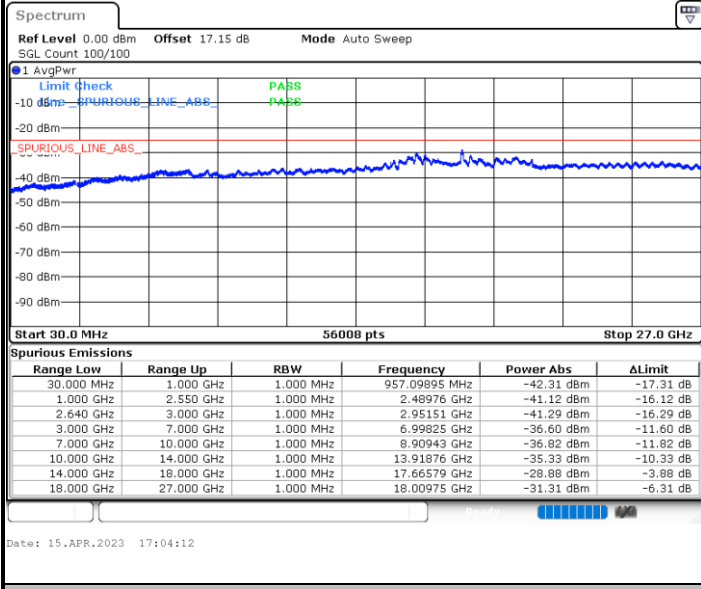


Conducted Spurious Emission

LTE Band 38 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

