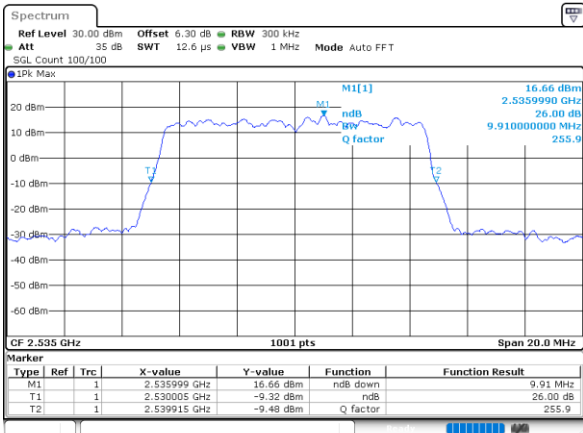




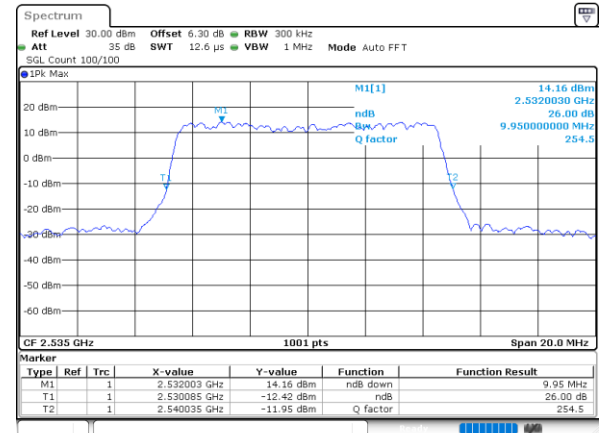
LTE Band 7

Middle Channel / 10MHz / QPSK



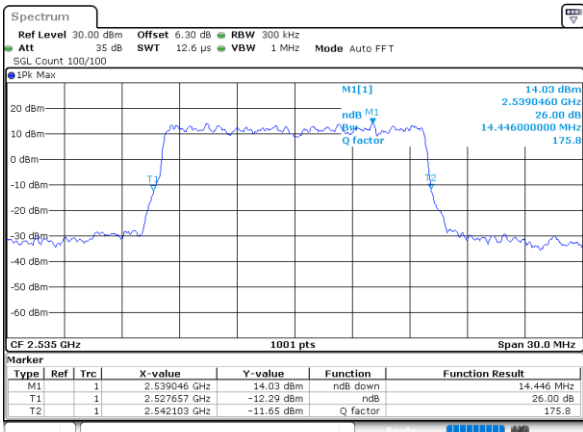
Date: 11.MAR.2024 04:35:21

Middle Channel / 10MHz / 16QAM



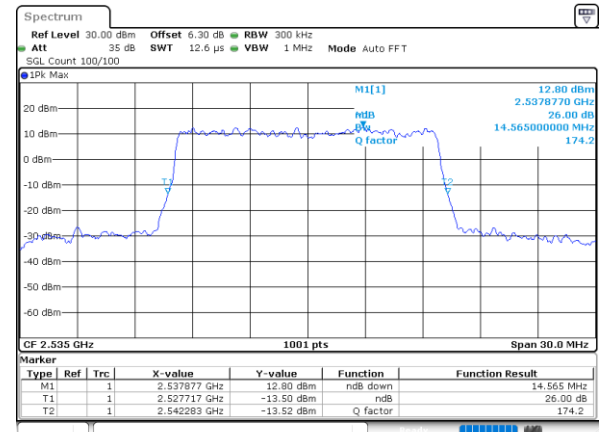
Date: 11.MAR.2024 04:35:42

Middle Channel / 15MHz / QPSK



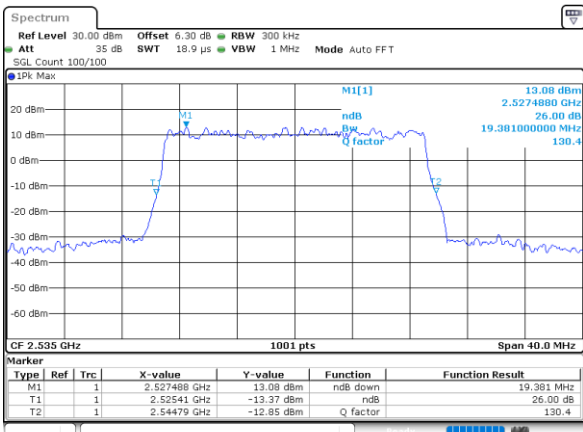
Date: 11.MAR.2024 04:33:55

Middle Channel / 15MHz / 16QAM



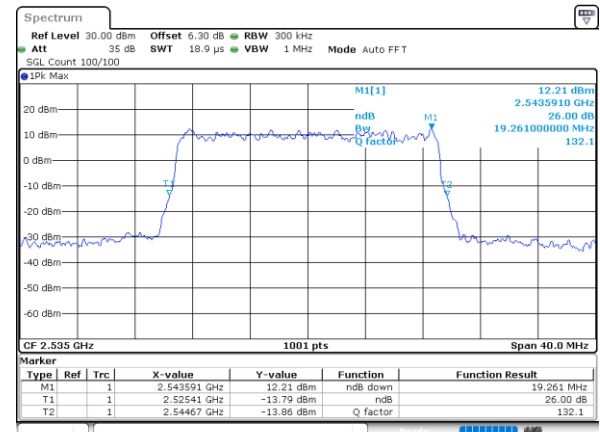
Date: 11.MAR.2024 04:34:16

Middle Channel / 20MHz / QPSK



Date: 11.MAR.2024 04:25:14

Middle Channel / 20MHz / 16QAM

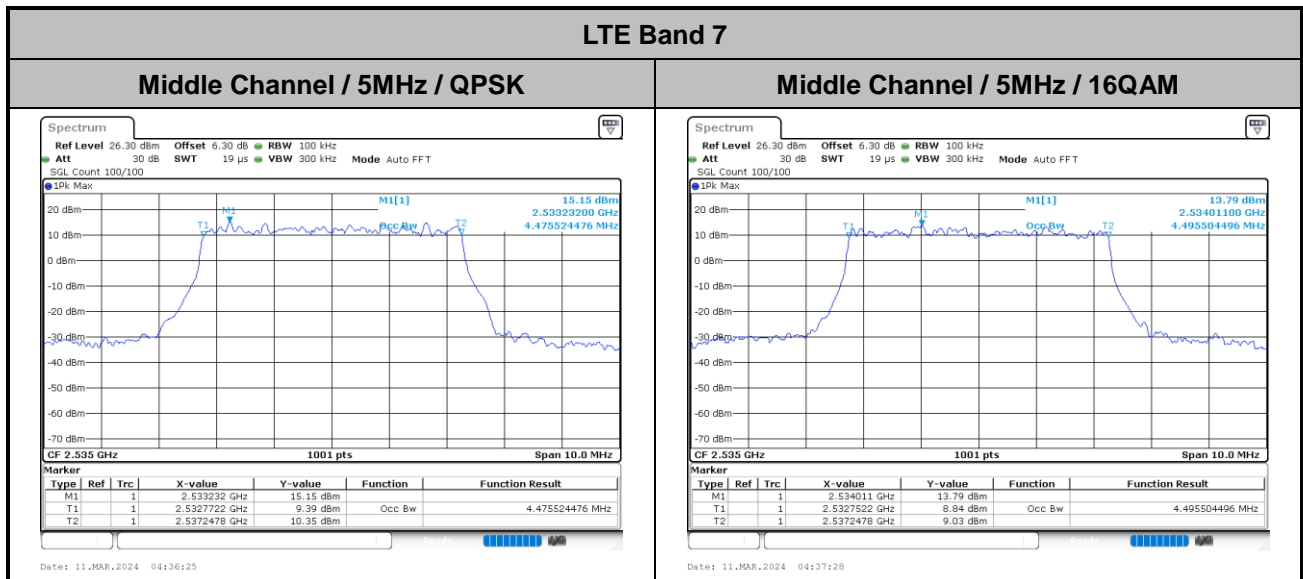


Date: 11.MAR.2024 04:26:19



## Occupied Bandwidth

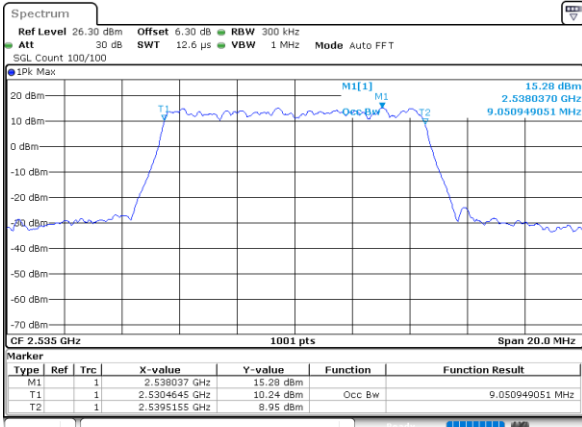
Mode	LTE Band 7 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	9.09
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.49	13.49
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.90





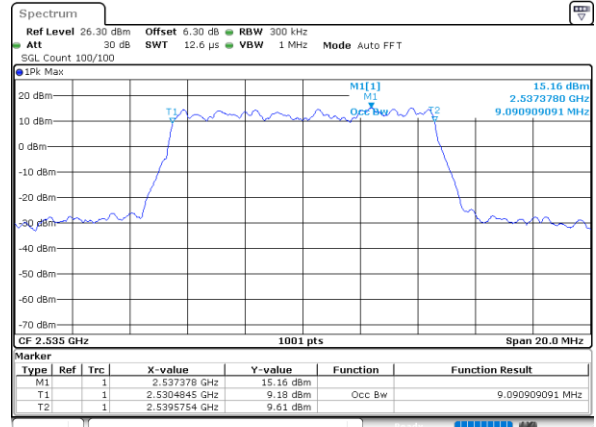
LTE Band 7

Middle Channel / 10MHz / QPSK



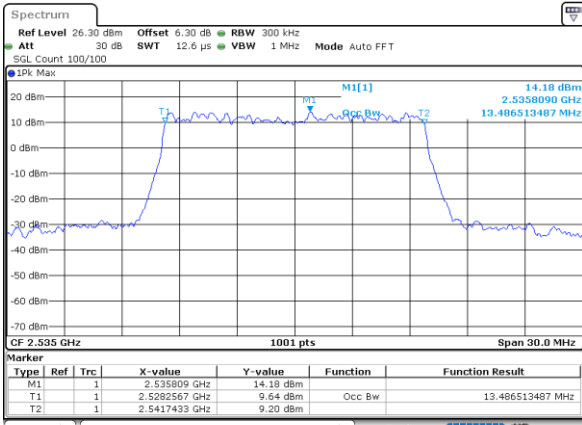
Date: 11.MAR.2024 04:35:00

Middle Channel / 10MHz / 16QAM



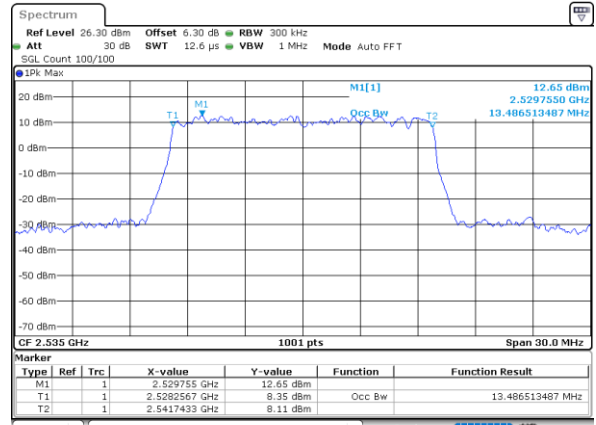
Date: 11.MAR.2024 04:36:03

Middle Channel / 15MHz / QPSK



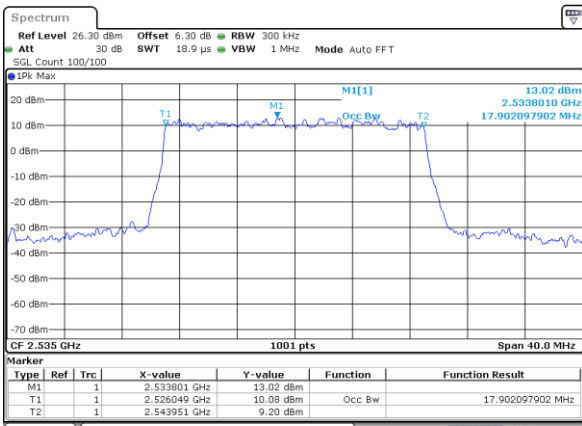
Date: 11.MAR.2024 04:33:34

Middle Channel / 15MHz / 16QAM



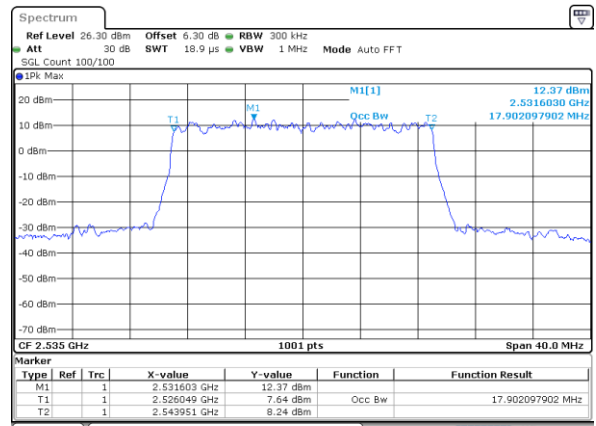
Date: 11.MAR.2024 04:34:37

Middle Channel / 20MHz / QPSK



Date: 11.MAR.2024 04:24:53

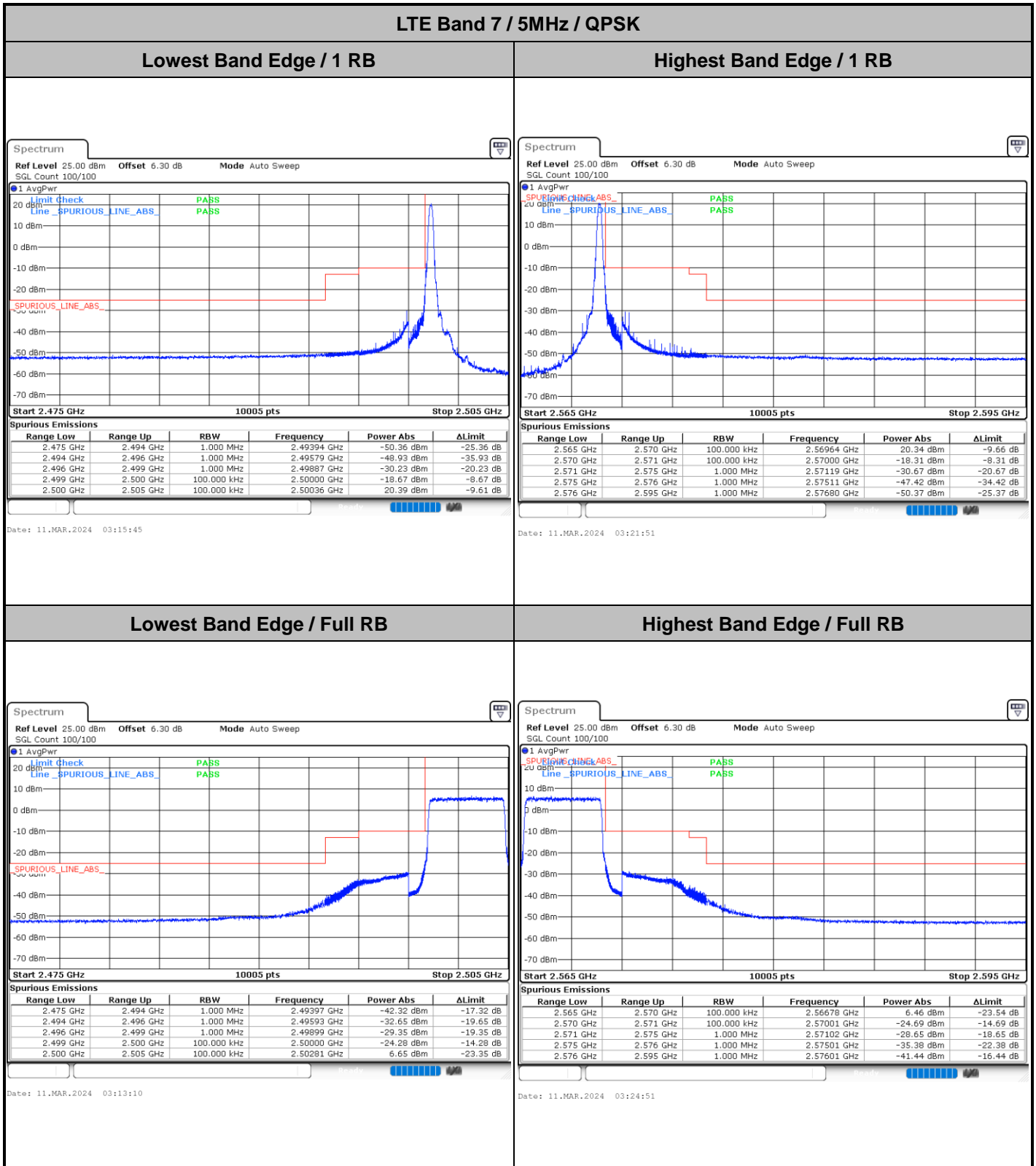
Middle Channel / 20MHz / 16QAM



Date: 11.MAR.2024 04:25:58



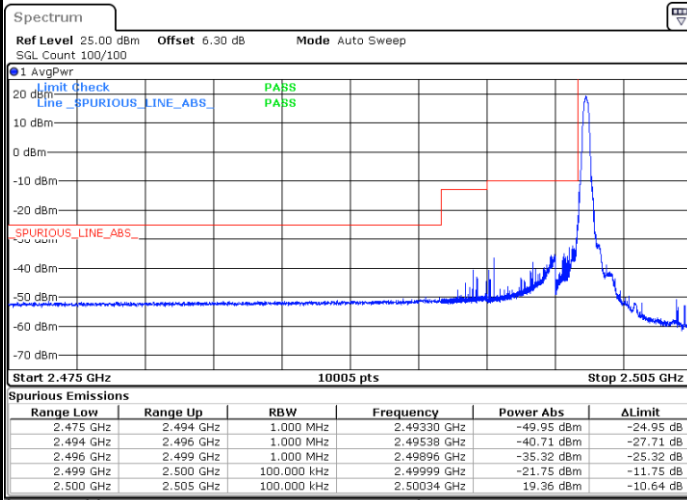
# Conducted Band Edge





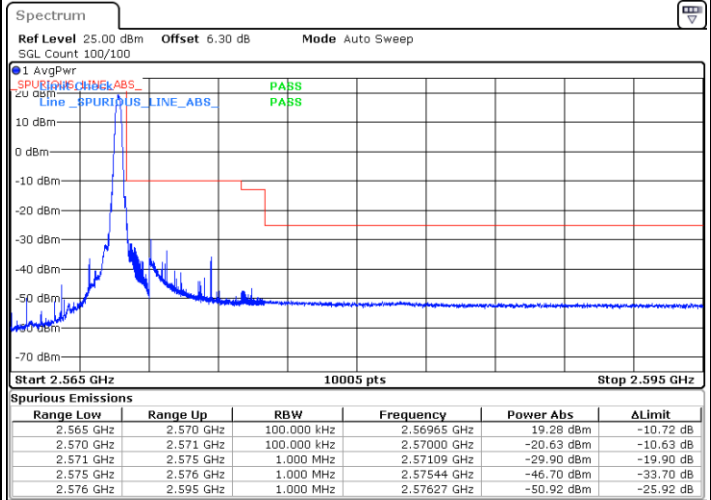
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



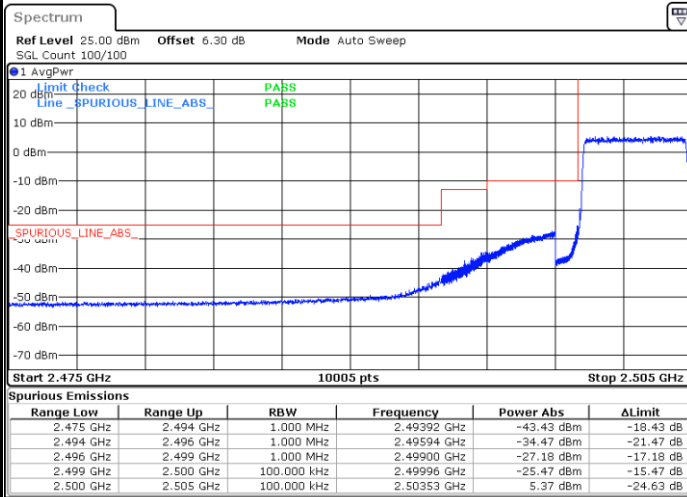
Date: 11.MAR.2024 03:16:50

Highest Band Edge / 1 RB



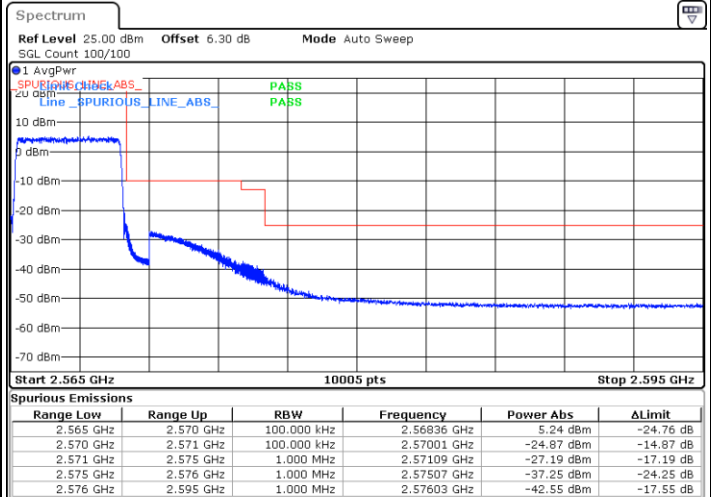
Date: 11.MAR.2024 03:22:56

Lowest Band Edge / Full RB



Date: 11.MAR.2024 03:13:48

Highest Band Edge / Full RB

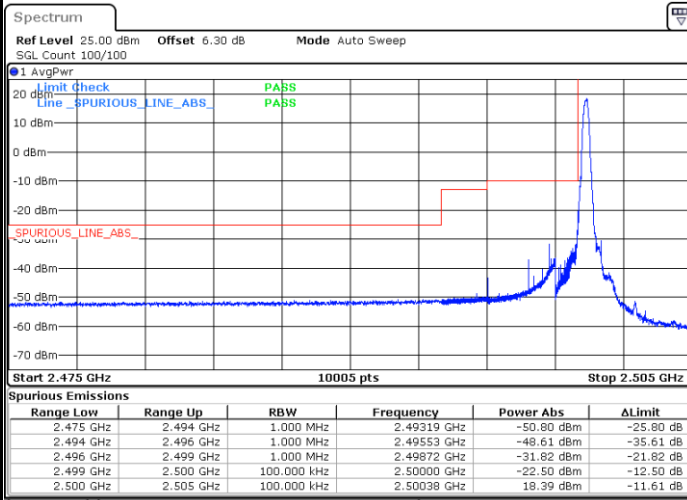


Date: 11.MAR.2024 03:25:29



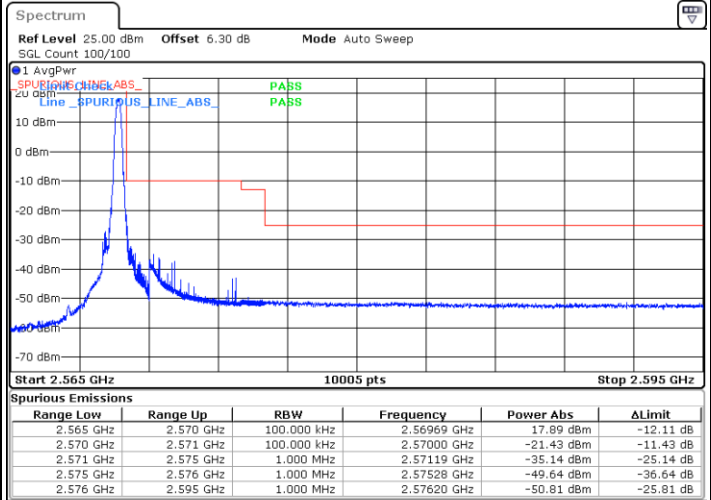
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



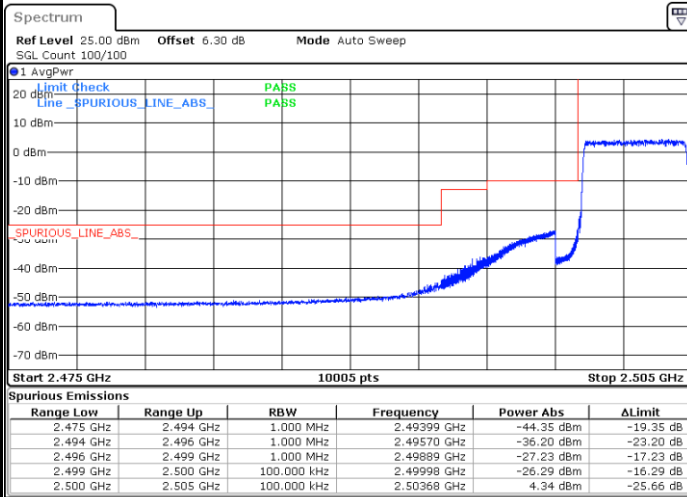
Date: 11.MAR.2024 03:17:29

Highest Band Edge / 1 RB



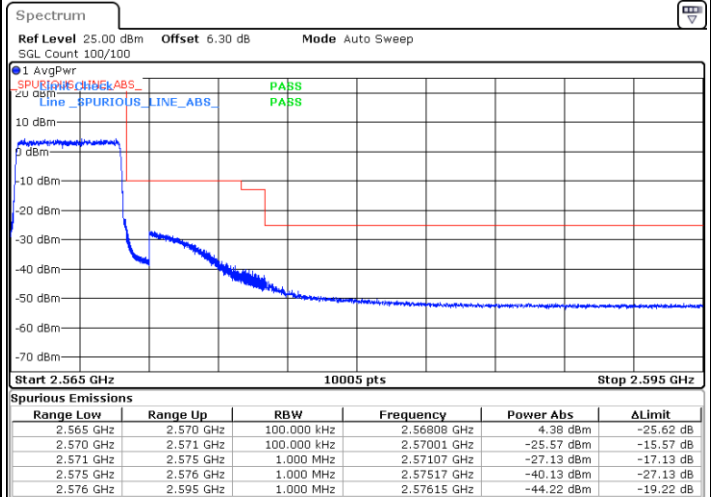
Date: 11.MAR.2024 03:23:35

Lowest Band Edge / Full RB



Date: 11.MAR.2024 03:14:27

Highest Band Edge / Full RB



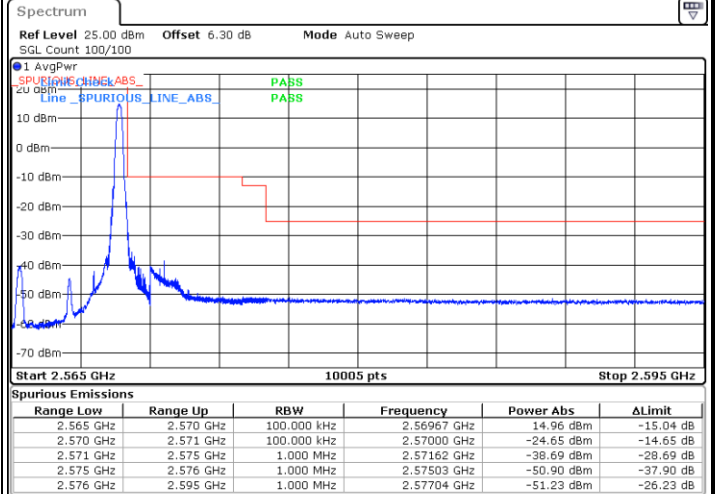
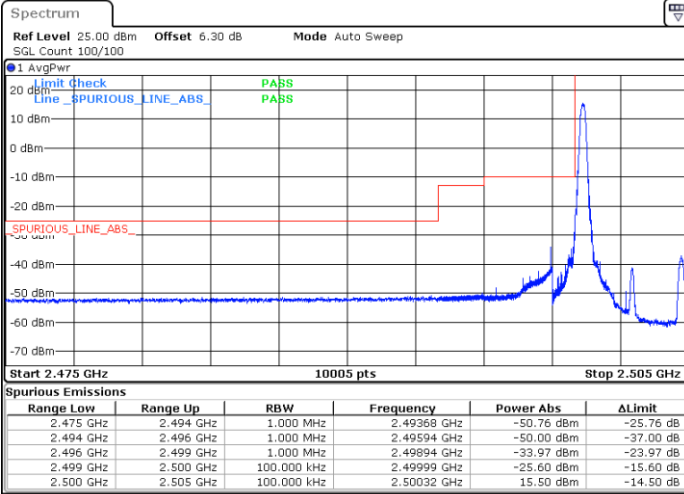
Date: 11.MAR.2024 03:26:07



LTE Band 7 / 5MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

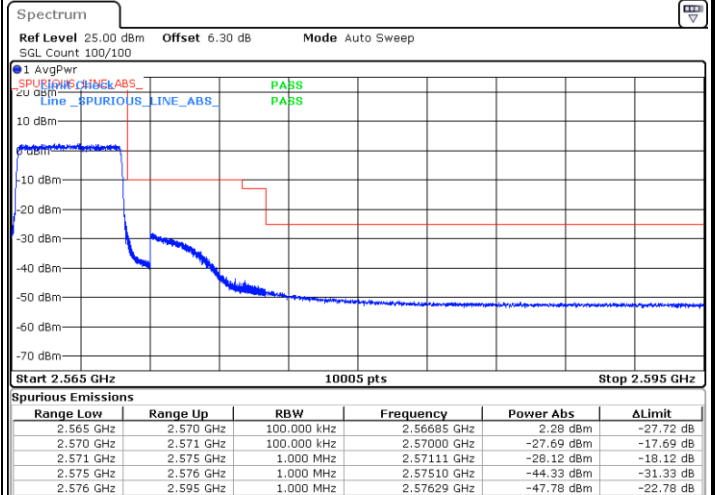
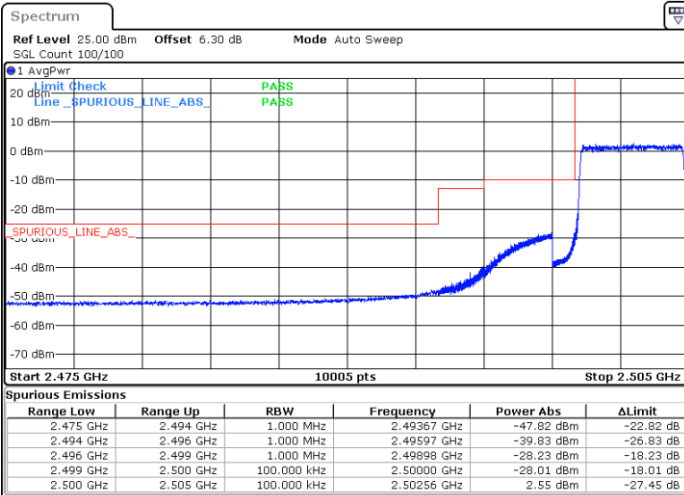


Date: 11.MAR.2024 03:18:08

Date: 11.MAR.2024 03:24:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



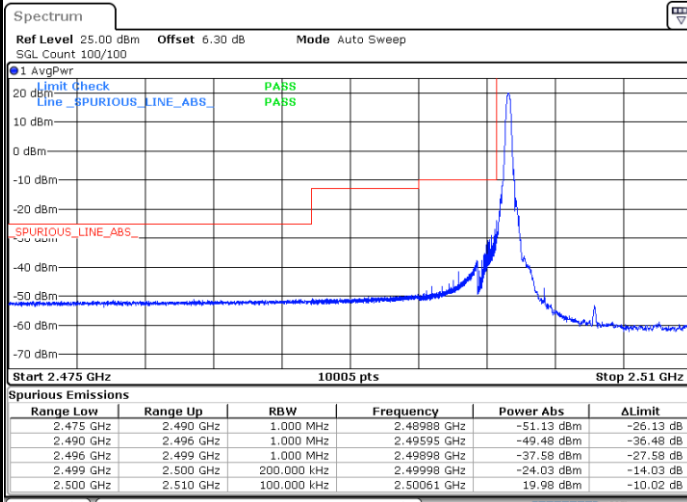
Date: 11.MAR.2024 03:15:06

Date: 11.MAR.2024 03:26:45



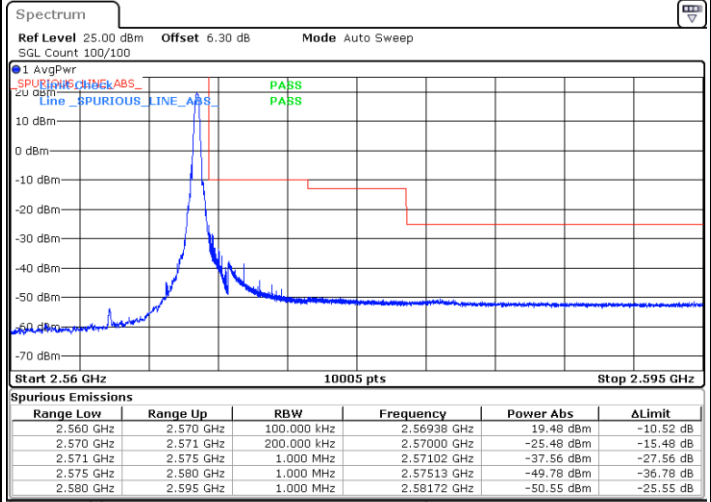
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



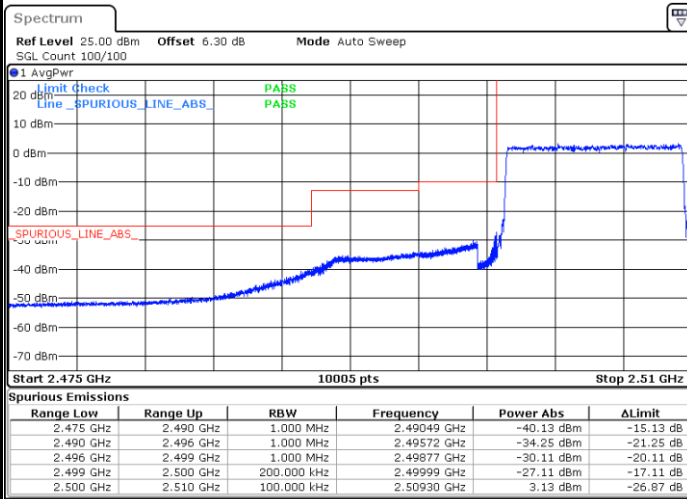
Date: 11.MAR.2024 03:52:47

Highest Band Edge / 1 RB



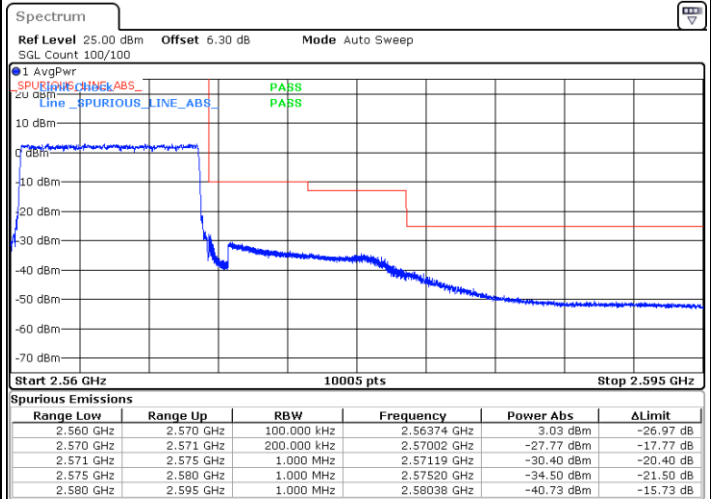
Date: 11.MAR.2024 03:58:16

Lowest Band Edge / Full RB



Date: 11.MAR.2024 03:50:23

Highest Band Edge / Full RB



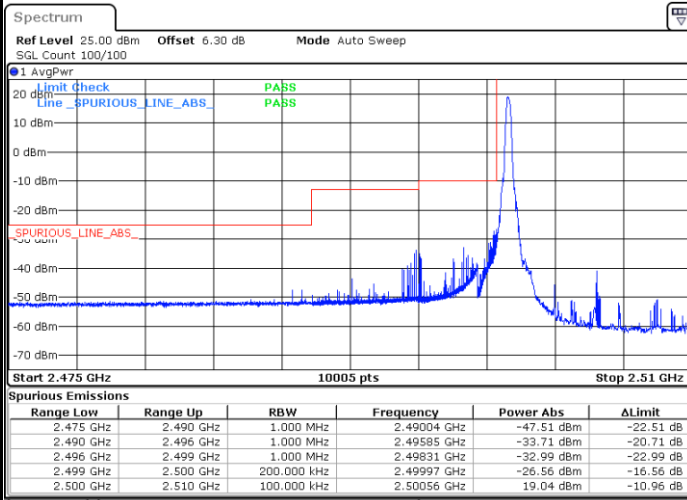
Date: 11.MAR.2024 04:00:26





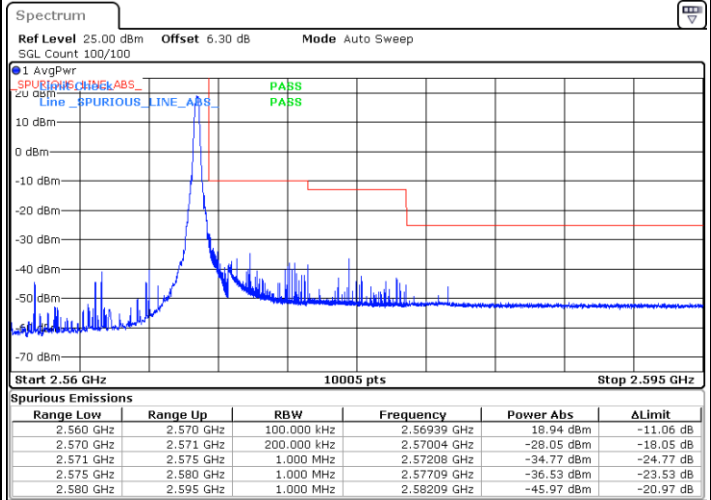
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



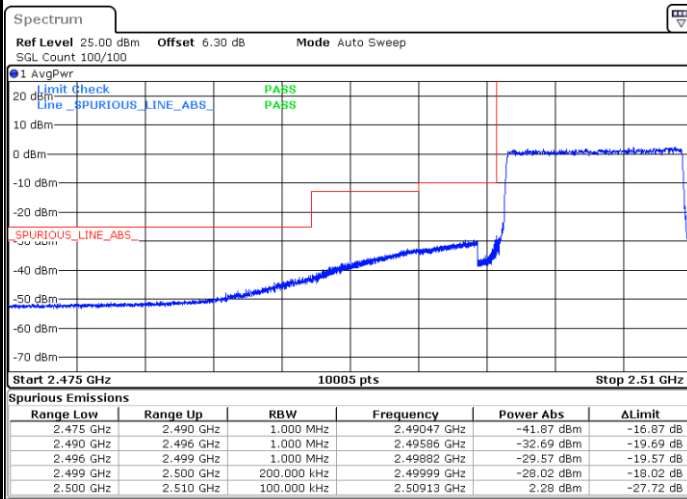
Date: 11.MAR.2024 03:53:22

Highest Band Edge / 1 RB



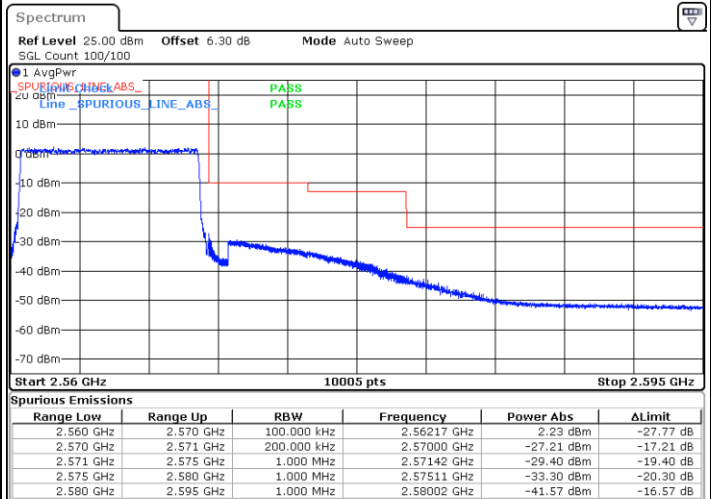
Date: 11.MAR.2024 03:58:52

Lowest Band Edge / Full RB



Date: 11.MAR.2024 03:50:59

Highest Band Edge / Full RB

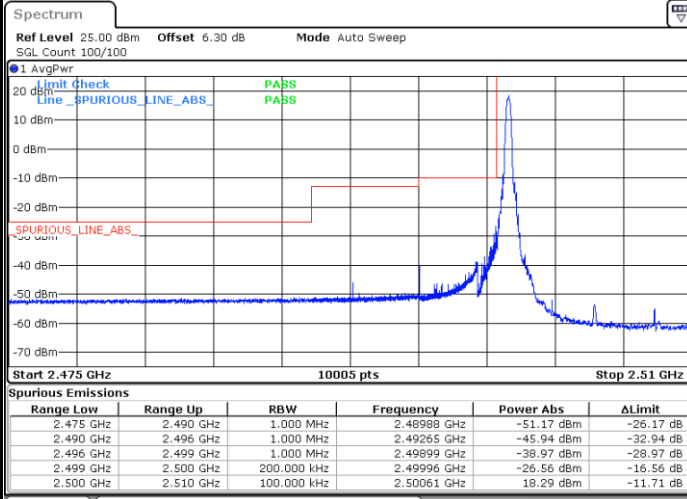


Date: 11.MAR.2024 04:00:56



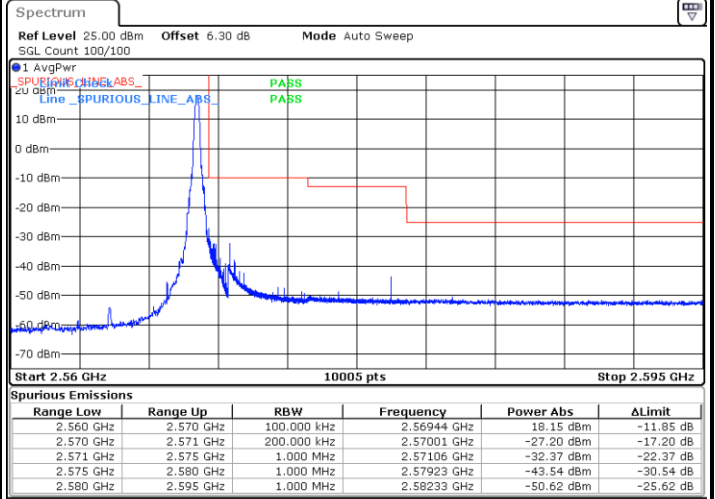
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



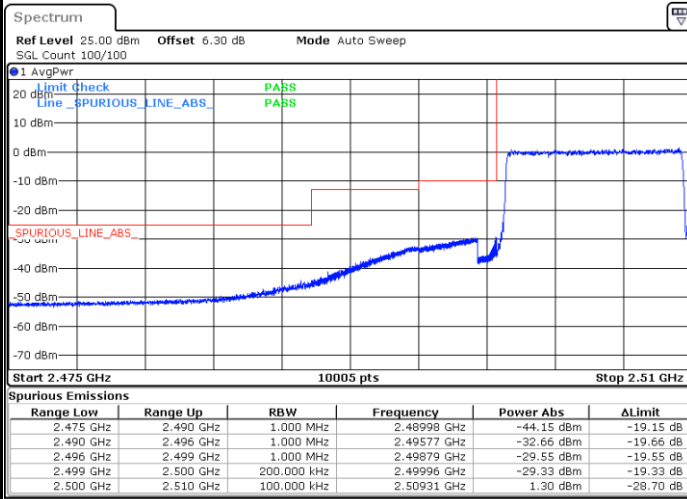
Date: 11.MAR.2024 03:53:58

Highest Band Edge / 1 RB



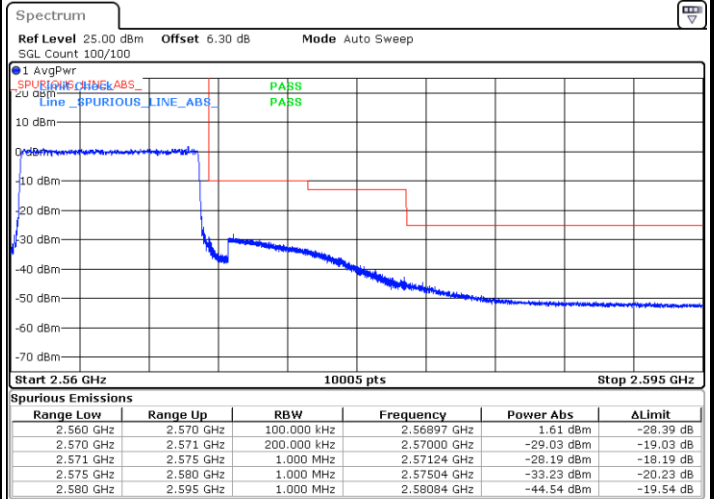
Date: 11.MAR.2024 03:59:22

Lowest Band Edge / Full RB



Date: 11.MAR.2024 03:51:34

Highest Band Edge / Full RB

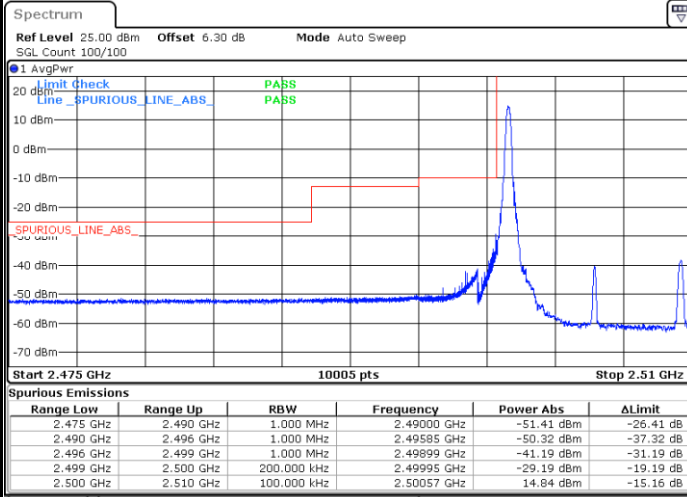


Date: 11.MAR.2024 04:01:26



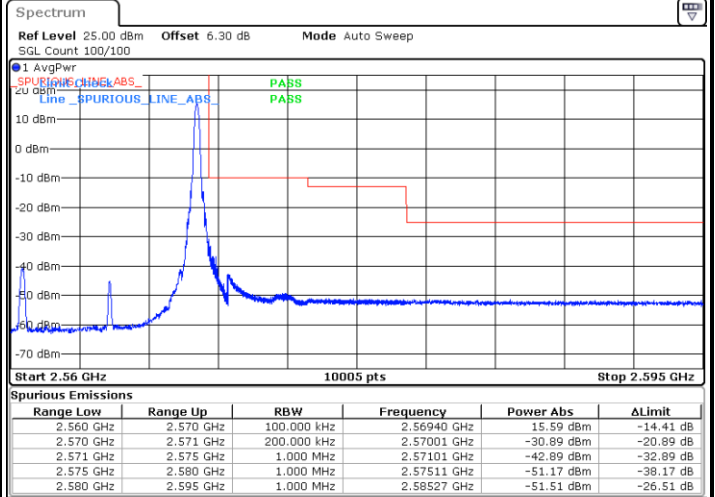
LTE Band 7 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



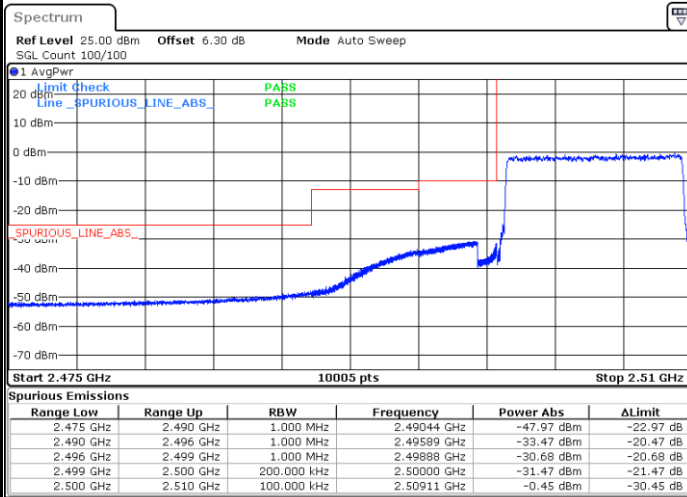
Date: 11.MAR.2024 03:54:33

Highest Band Edge / 1 RB



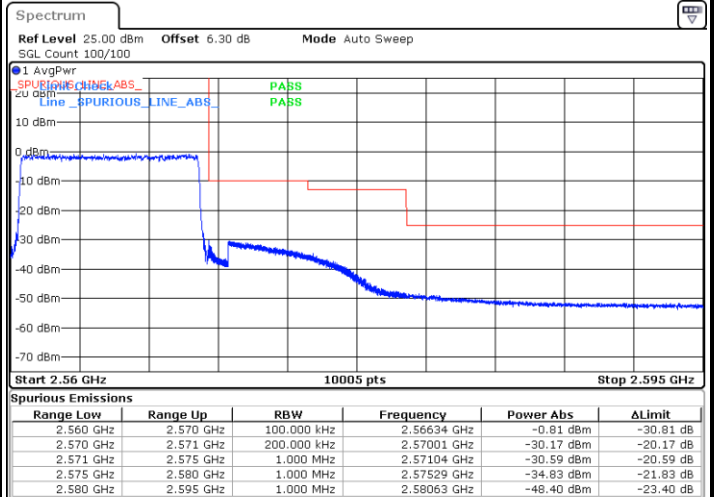
Date: 11.MAR.2024 03:59:52

Lowest Band Edge / Full RB



Date: 11.MAR.2024 03:52:09

Highest Band Edge / Full RB



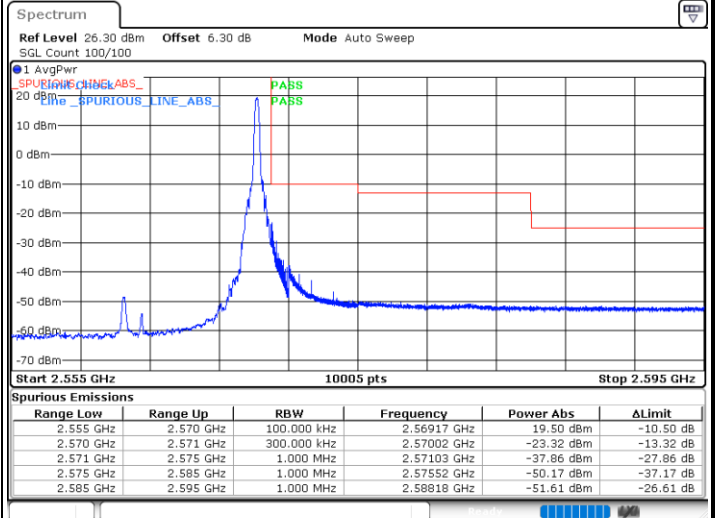
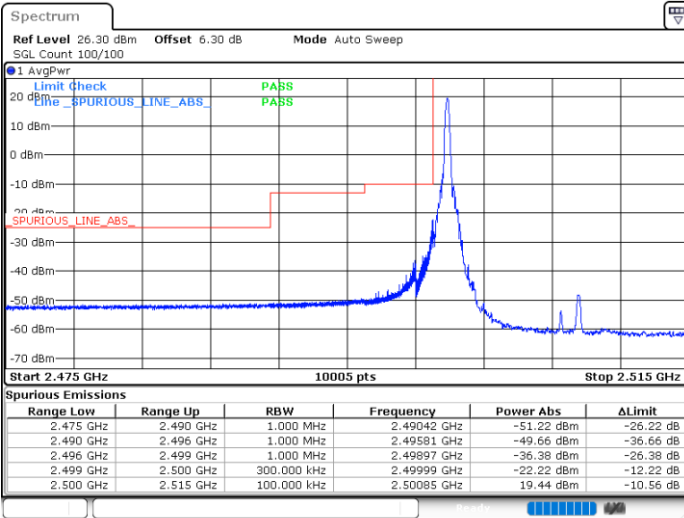
Date: 11.MAR.2024 04:01:57



LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

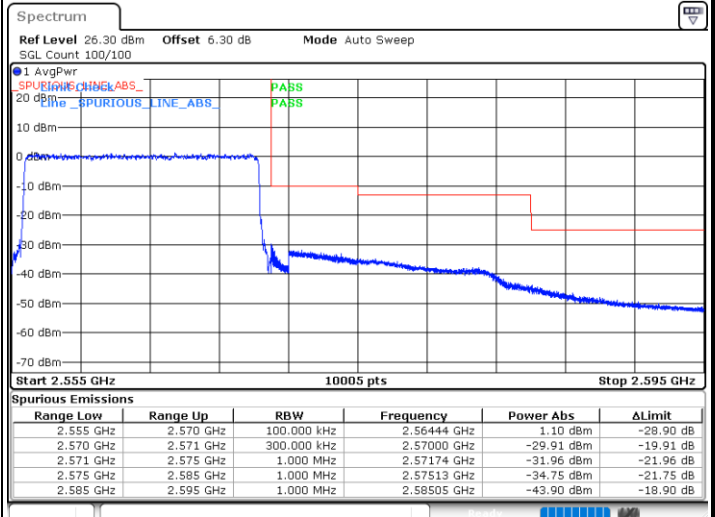
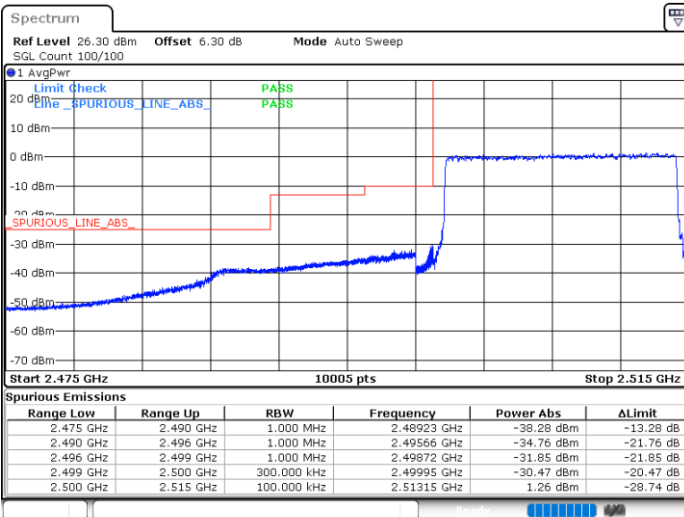


Date: 11.MAR.2024 04:04:36

Date: 11.MAR.2024 04:09:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



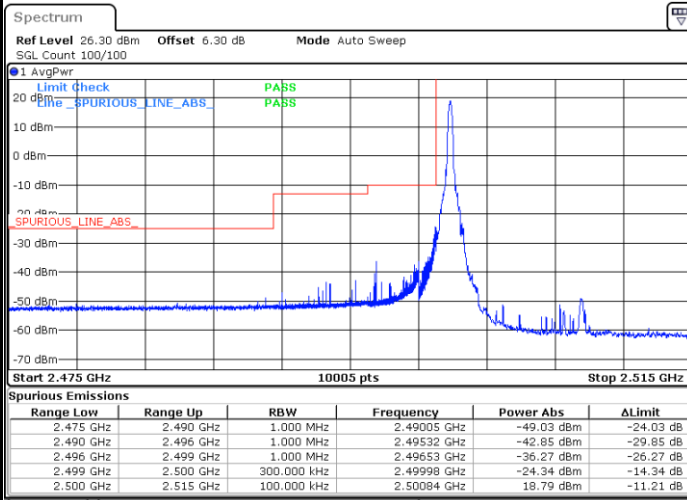
Date: 11.MAR.2024 04:02:31

Date: 11.MAR.2024 04:11:36



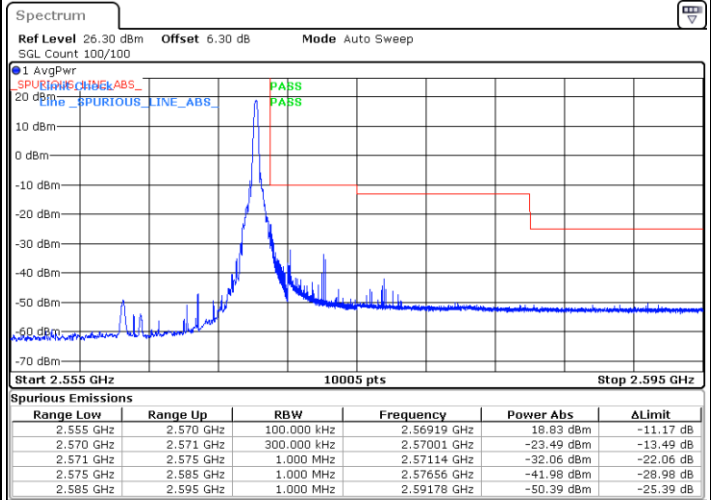
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



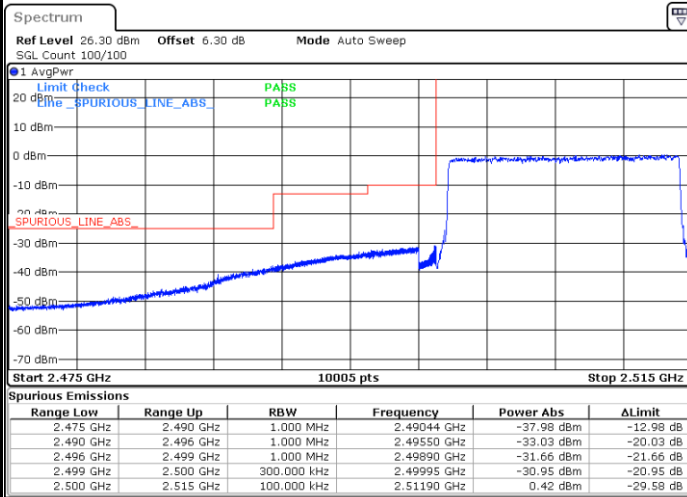
Date: 11.MAR.2024 04:05:07

Highest Band Edge / 1 RB



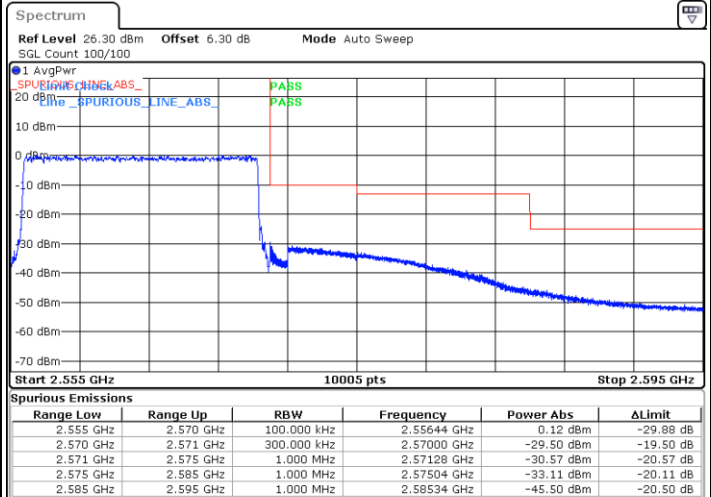
Date: 11.MAR.2024 04:10:02

Lowest Band Edge / Full RB



Date: 11.MAR.2024 04:03:01

Highest Band Edge / Full RB

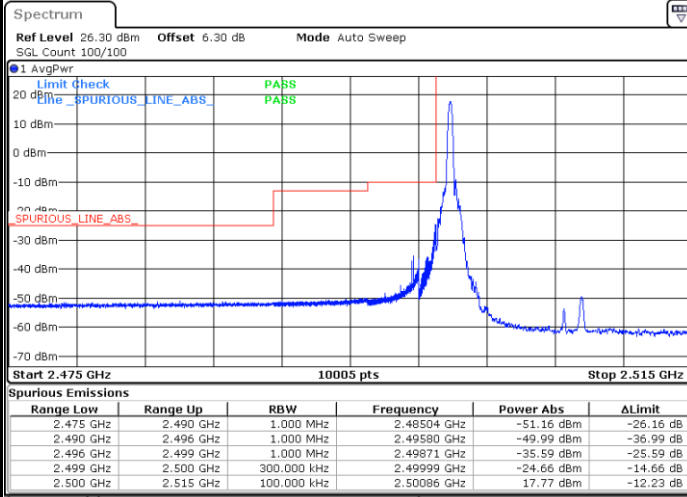


Date: 11.MAR.2024 04:12:06



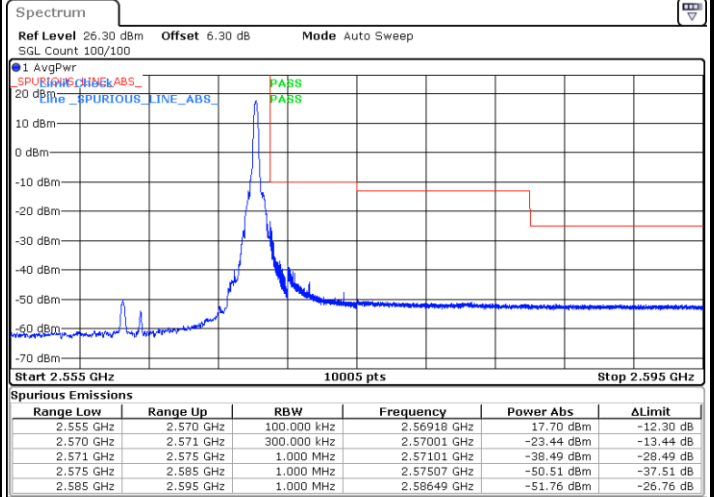
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



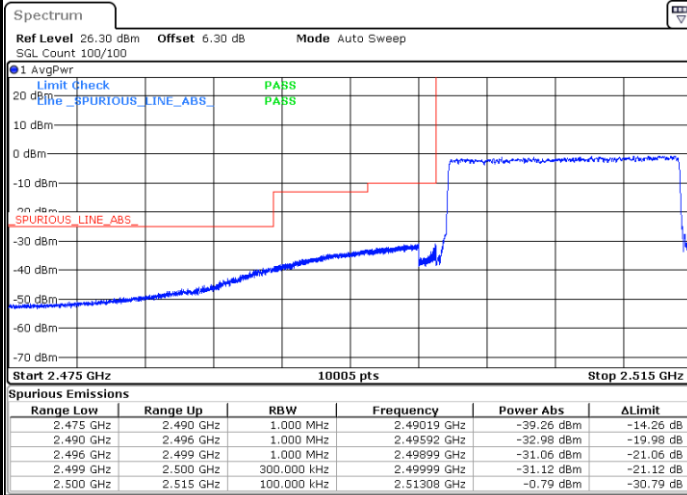
Date: 11.MAR.2024 04:05:38

Highest Band Edge / 1 RB



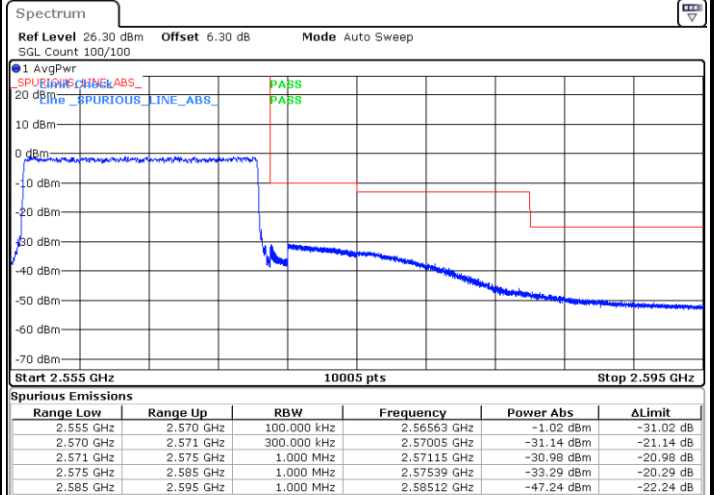
Date: 11.MAR.2024 04:10:32

Lowest Band Edge / Full RB



Date: 11.MAR.2024 04:03:32

Highest Band Edge / Full RB

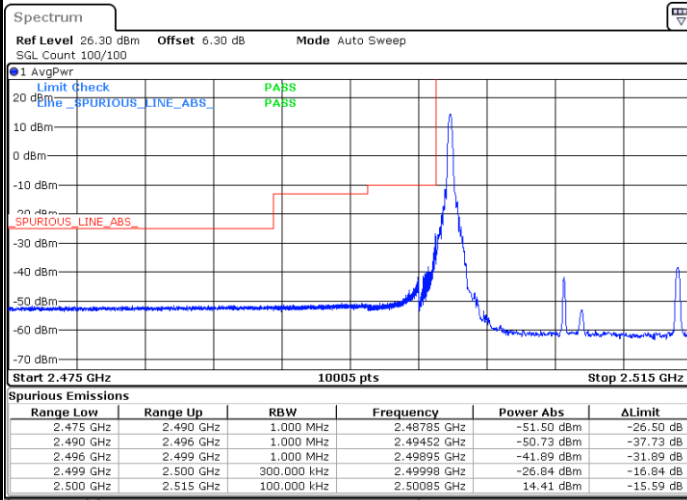


Date: 11.MAR.2024 04:12:37



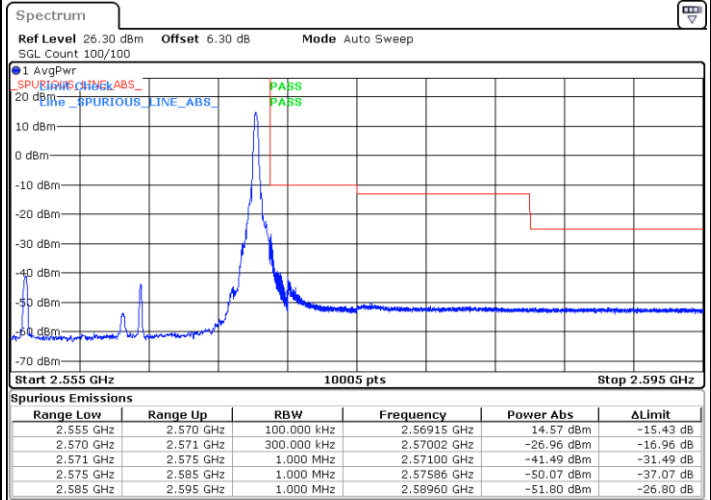
LTE Band 7 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



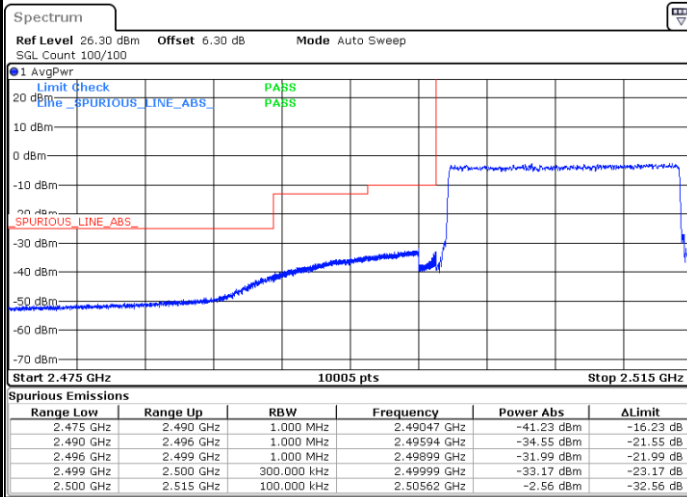
Date: 11.MAR.2024 04:06:08

Highest Band Edge / 1 RB



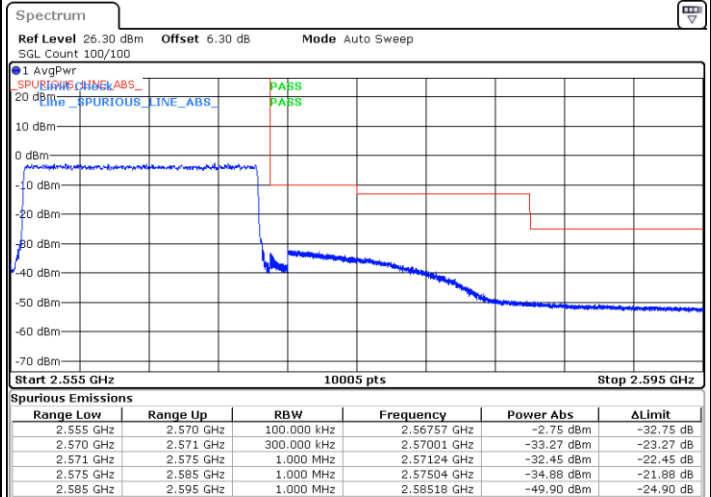
Date: 11.MAR.2024 04:11:03

Lowest Band Edge / Full RB



Date: 11.MAR.2024 04:04:03

Highest Band Edge / Full RB



Date: 11.MAR.2024 04:13:07

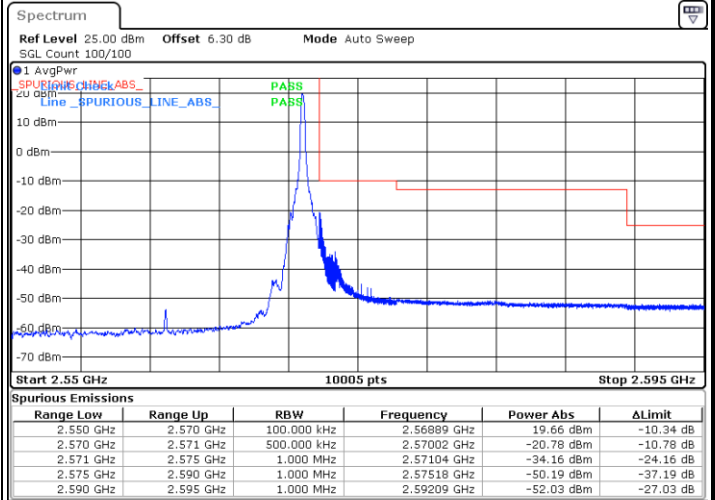
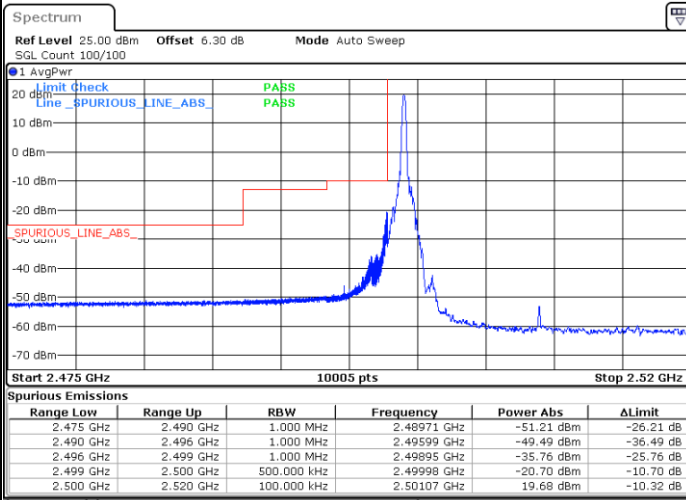




LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

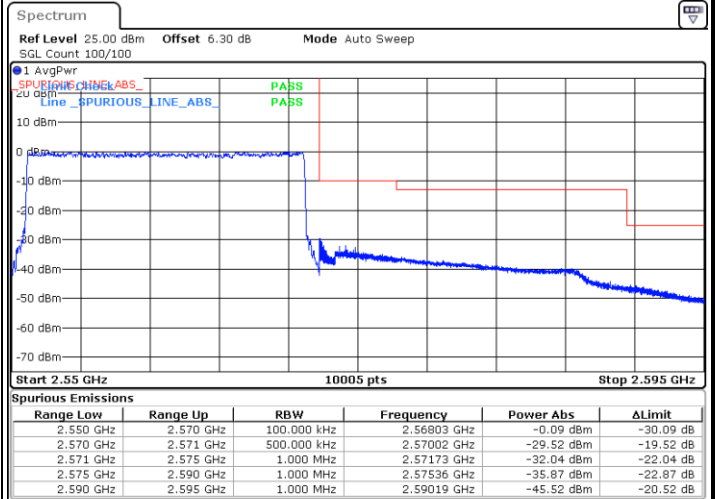
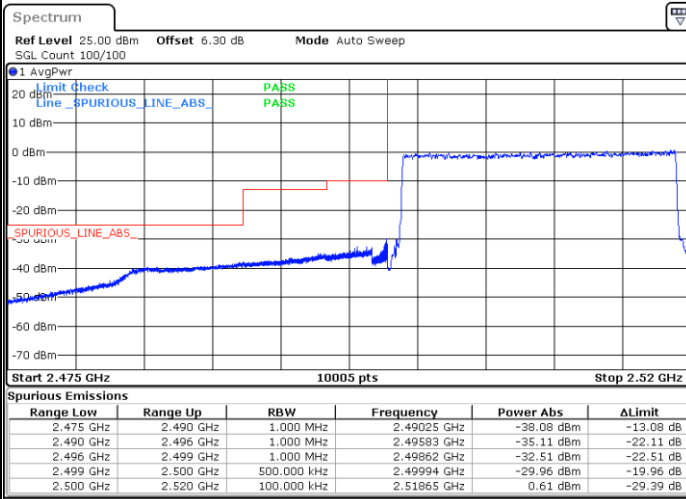


Date: 11.MAR.2024 04:15:45

Date: 11.MAR.2024 04:20:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11.MAR.2024 04:13:40

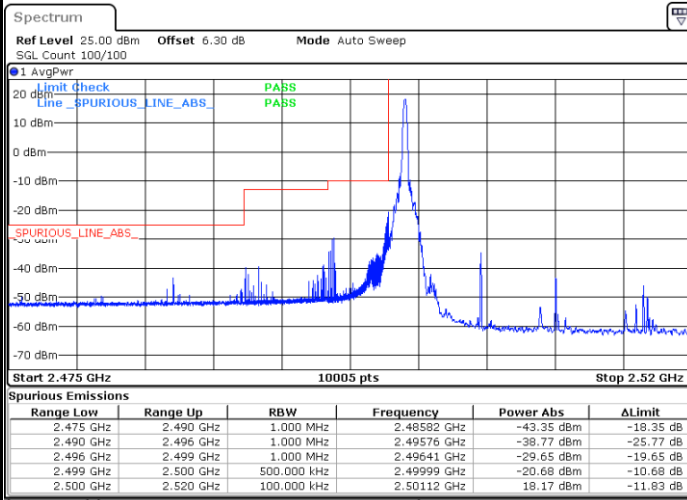
Date: 11.MAR.2024 04:22:44





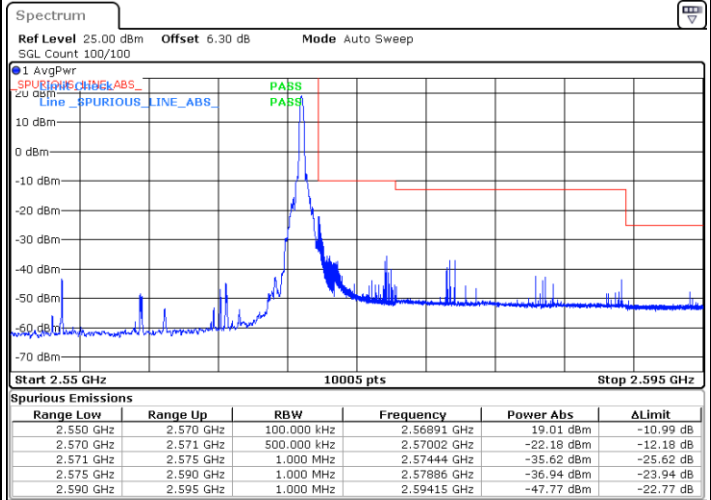
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



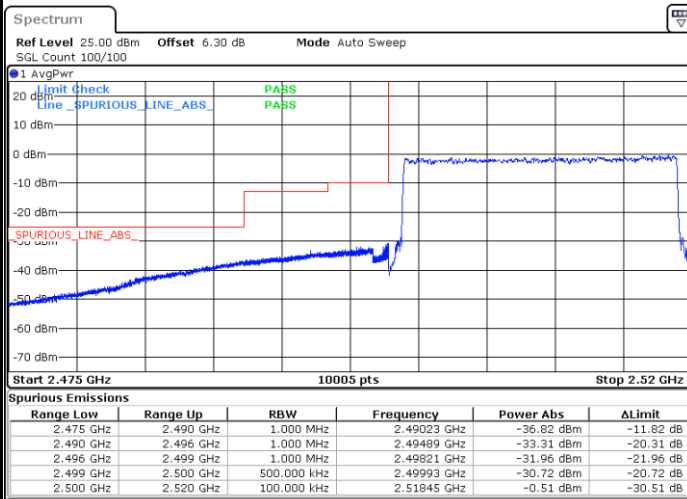
Date: 11.MAR.2024 04:16:16

Highest Band Edge / 1 RB



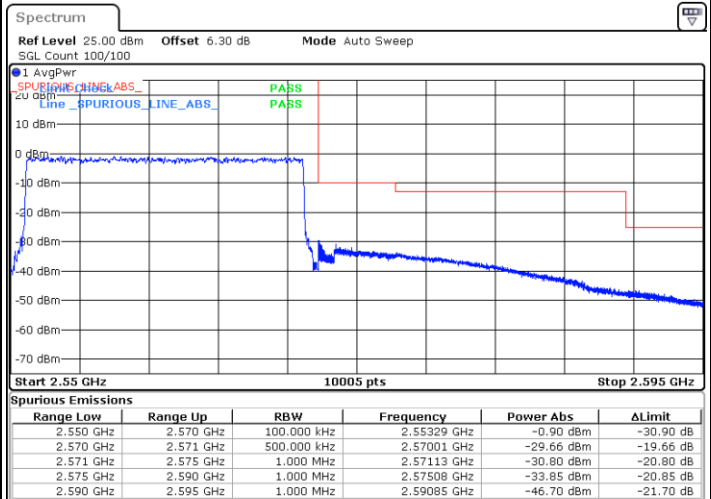
Date: 11.MAR.2024 04:21:11

Lowest Band Edge / Full RB



Date: 11.MAR.2024 04:14:11

Highest Band Edge / Full RB

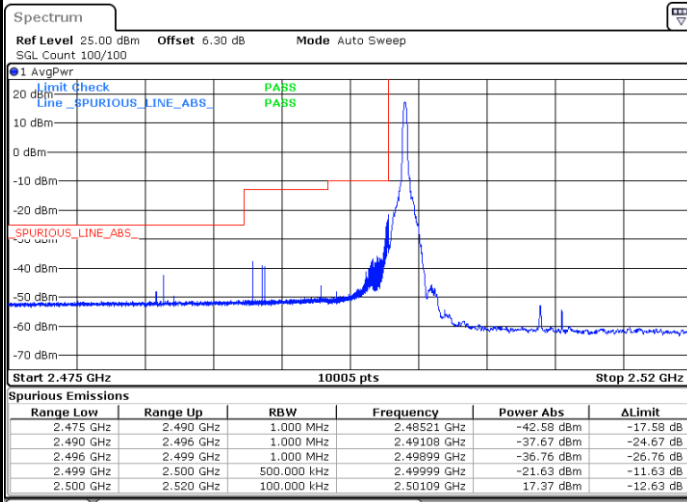


Date: 11.MAR.2024 04:23:15

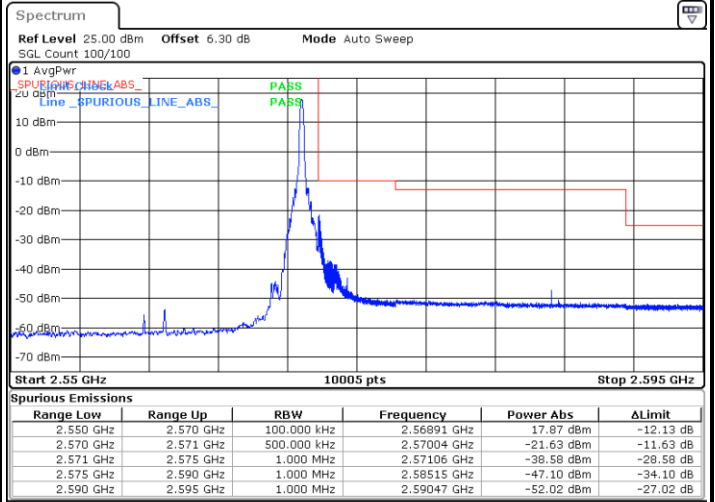


LTE Band 7 / 20MHz / 64QAM

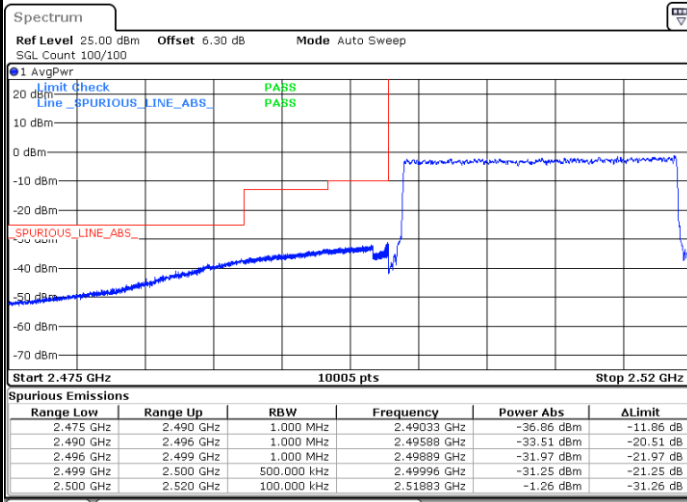
Lowest Band Edge / 1 RB



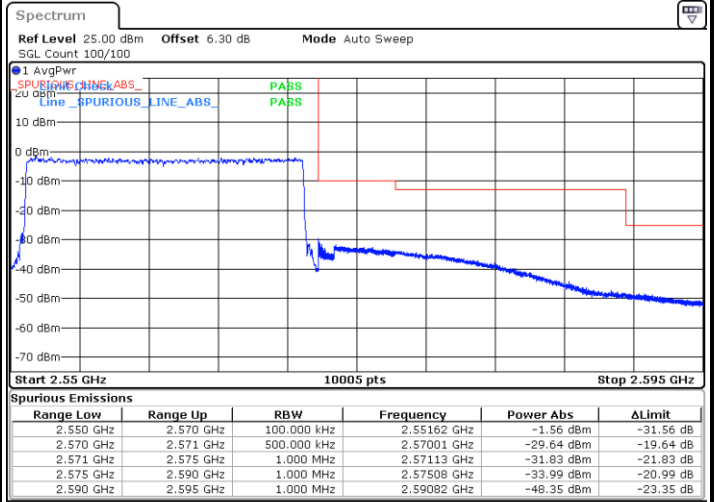
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



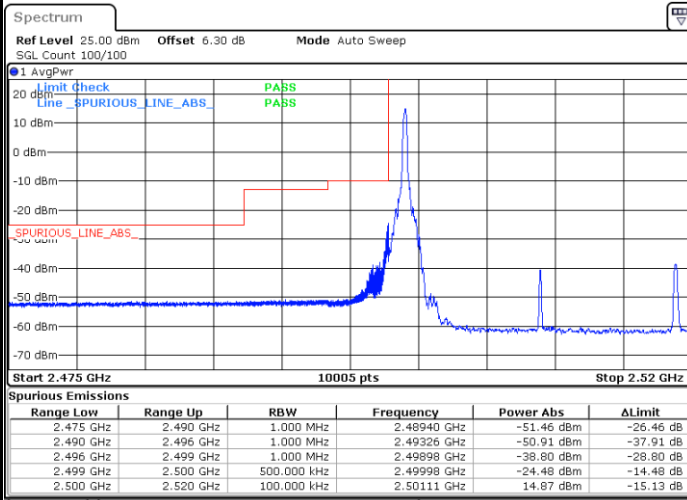
Highest Band Edge / Full RB



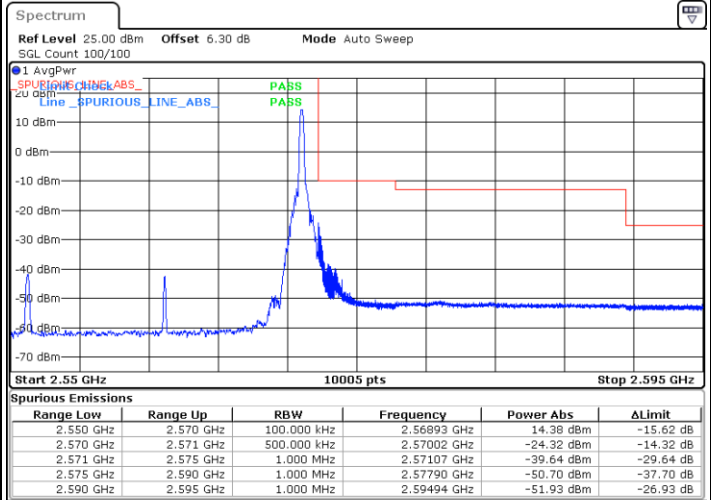


LTE Band 7 / 20MHz / 256QAM

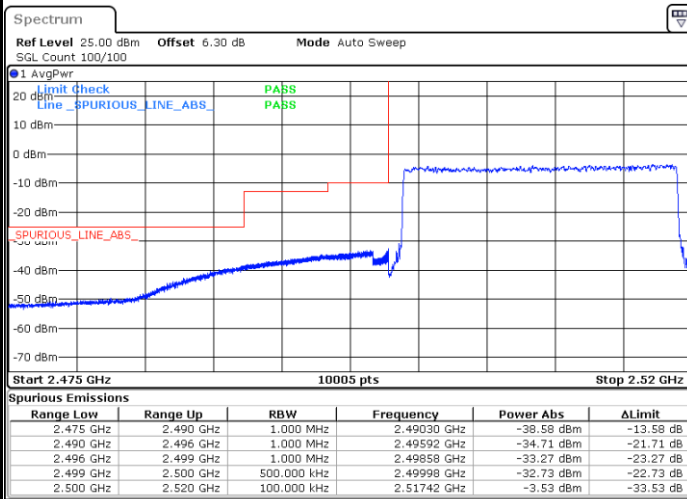
Lowest Band Edge / 1 RB



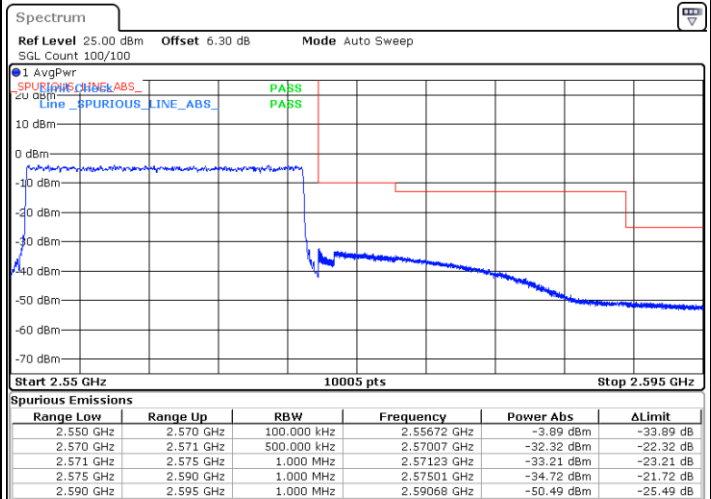
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

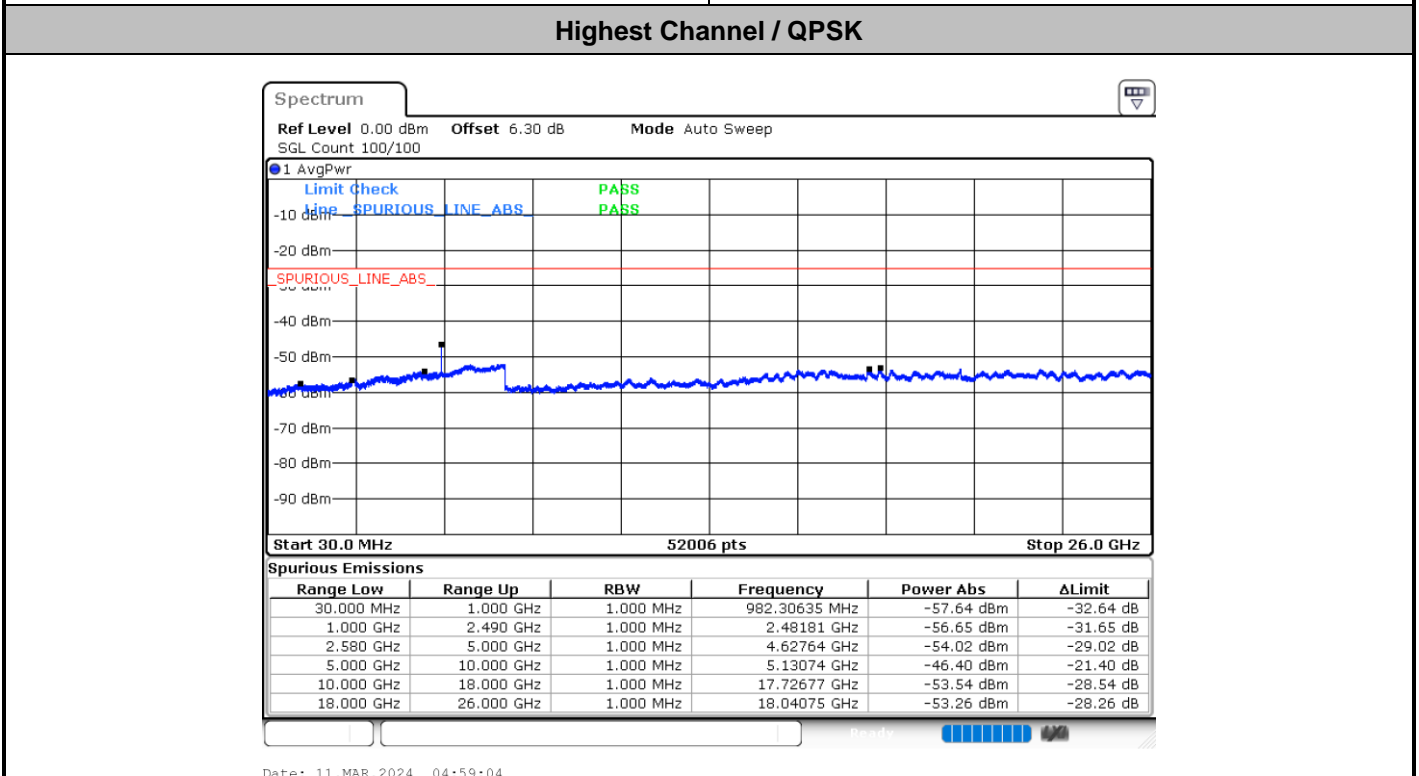
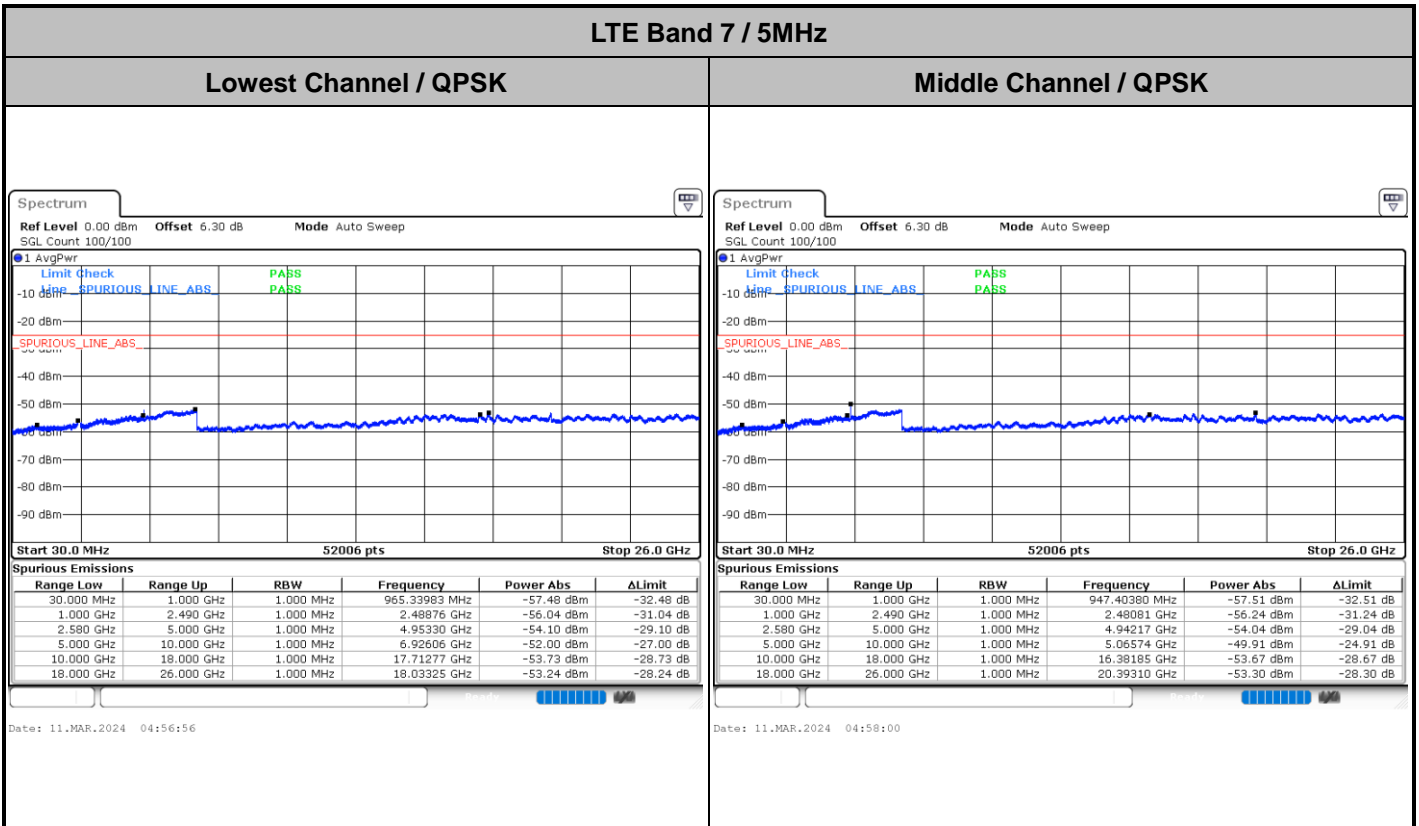


Highest Band Edge / Full RB





# Conducted Spurious Emission

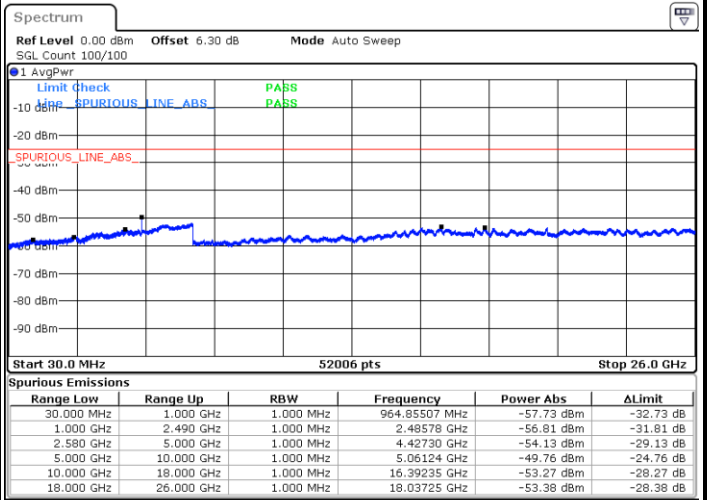
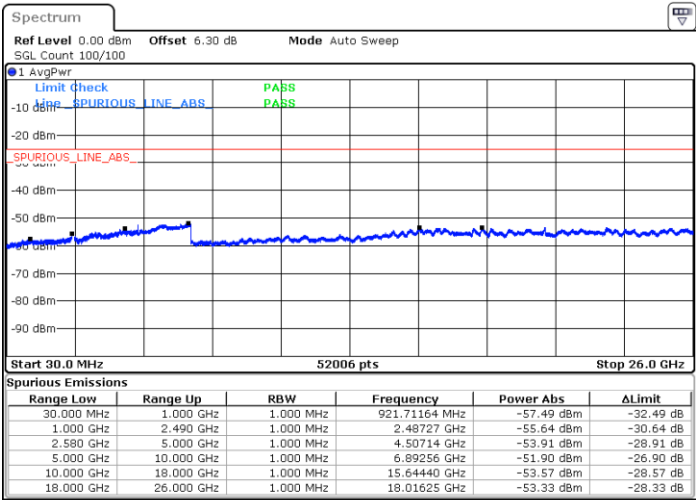




LTE Band 7 / 10MHz

Lowest Channel / QPSK

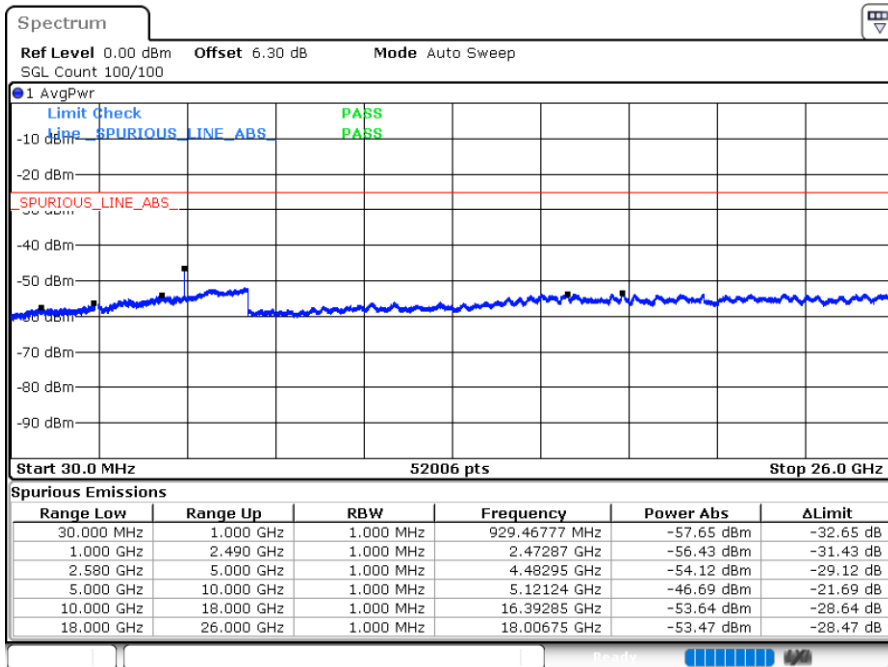
Middle Channel / QPSK



Date: 11.MAR.2024 05:00:10

Date: 11.MAR.2024 05:01:14

Highest Channel / QPSK

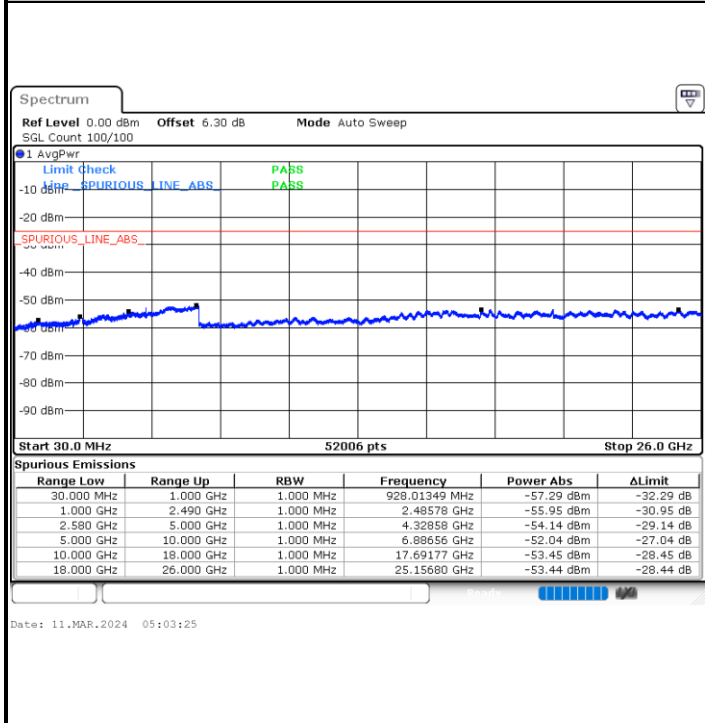


Date: 11.MAR.2024 05:02:19

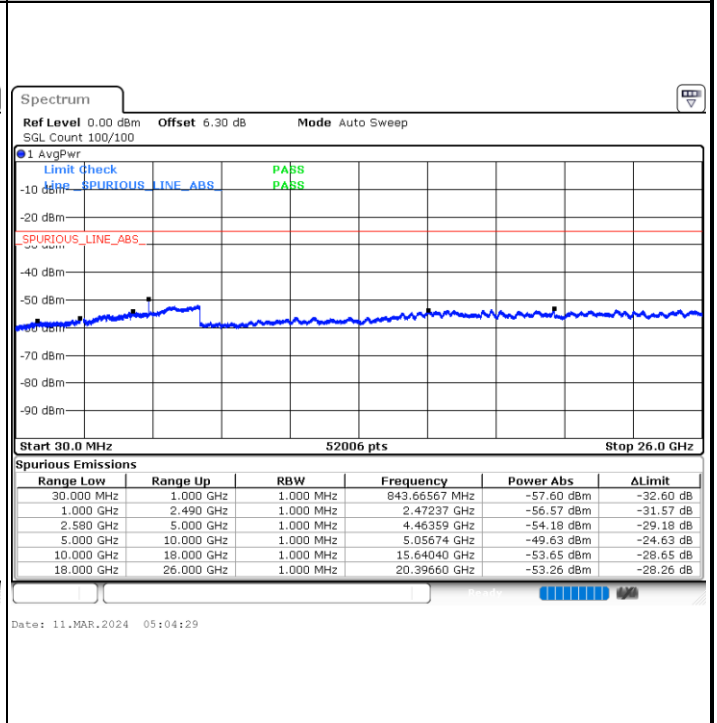


**LTE Band 7 / 15MHz**

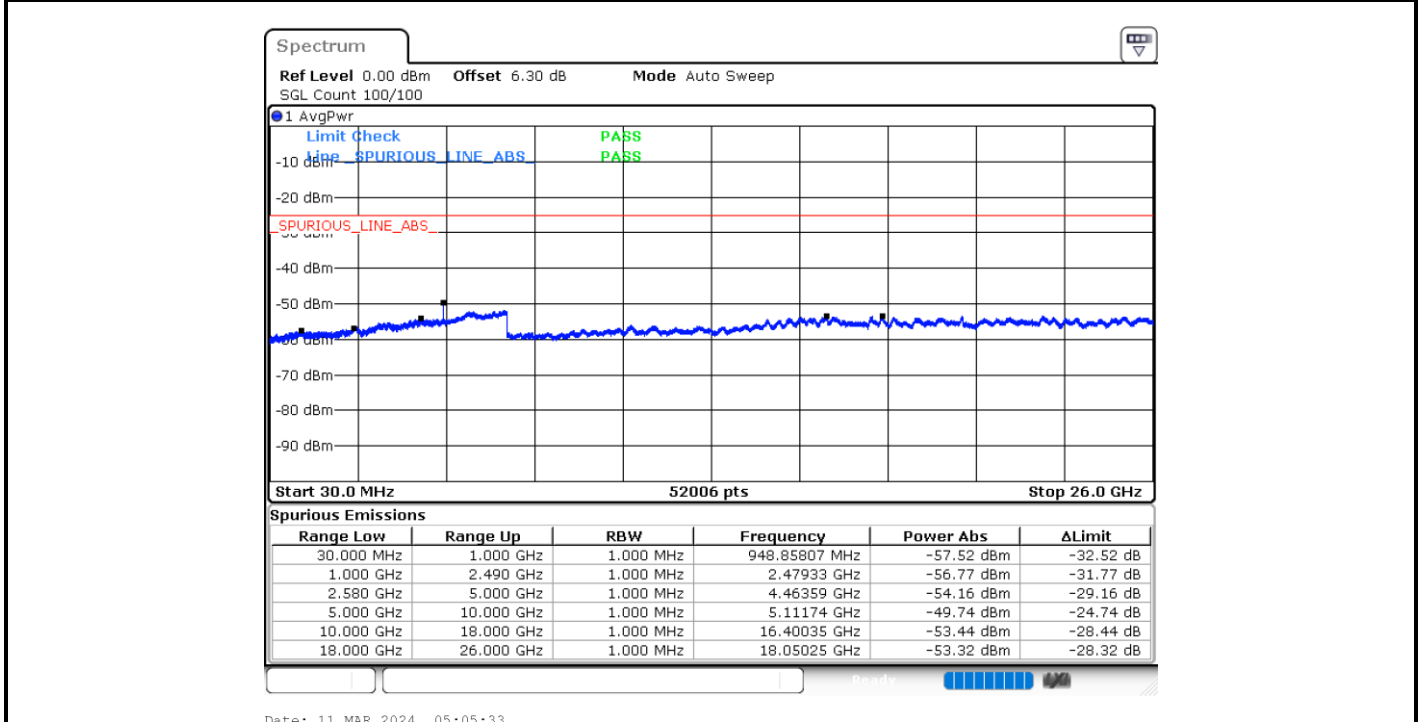
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



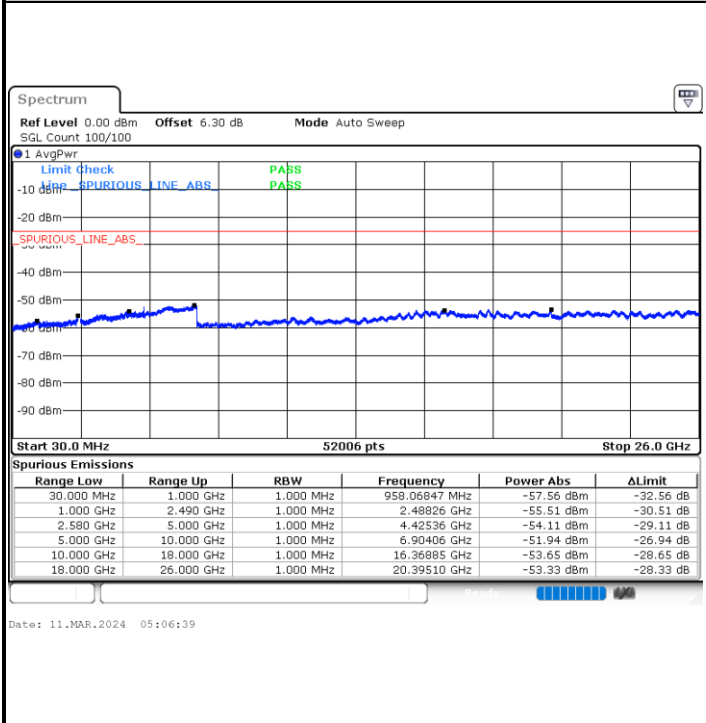
**Highest Channel / QPSK**



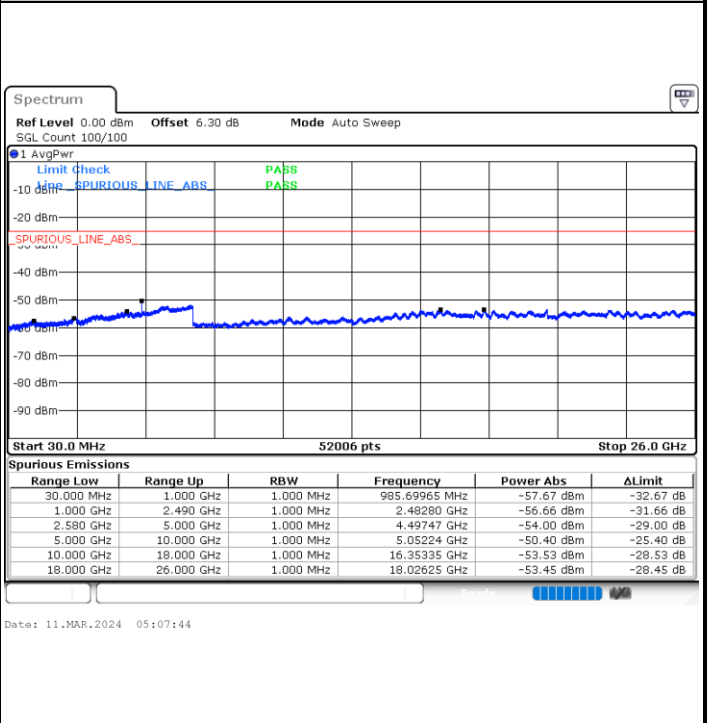


**LTE Band 7 / 20MHz**

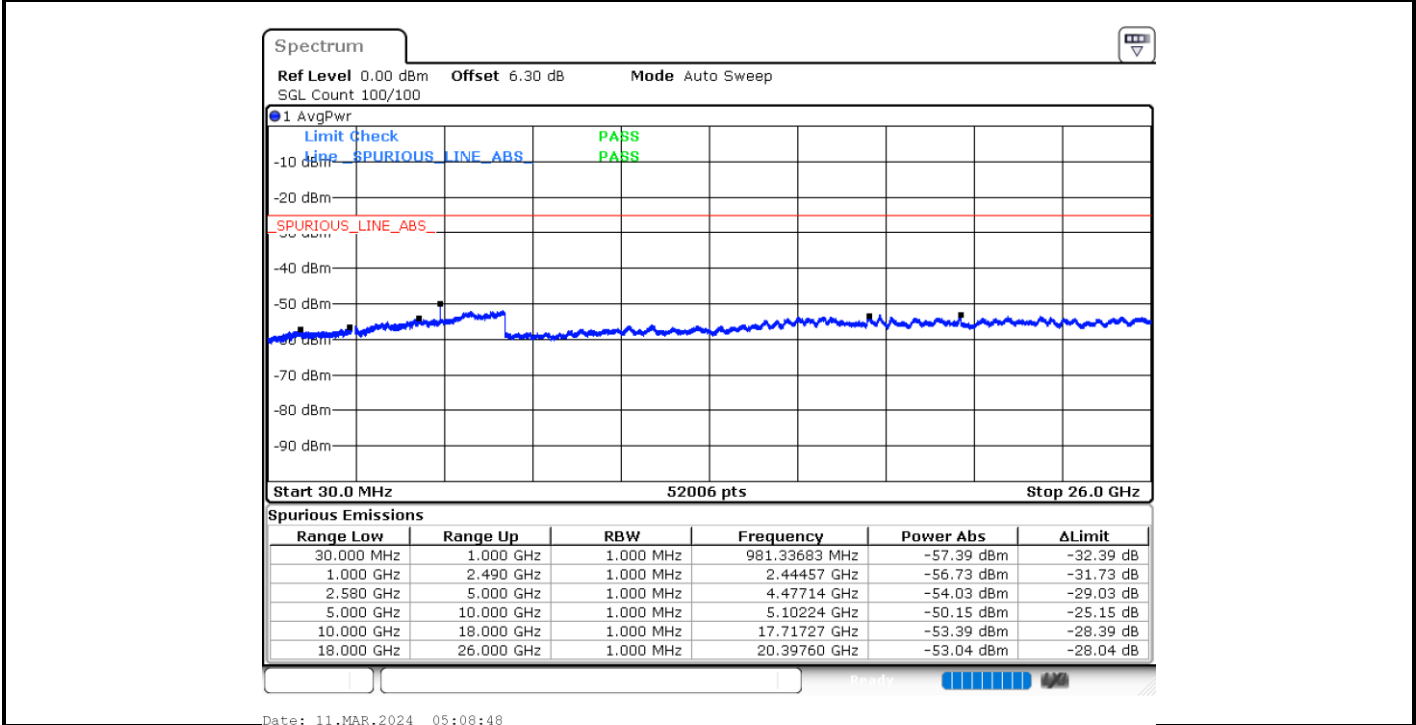
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**





Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0033	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0010	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

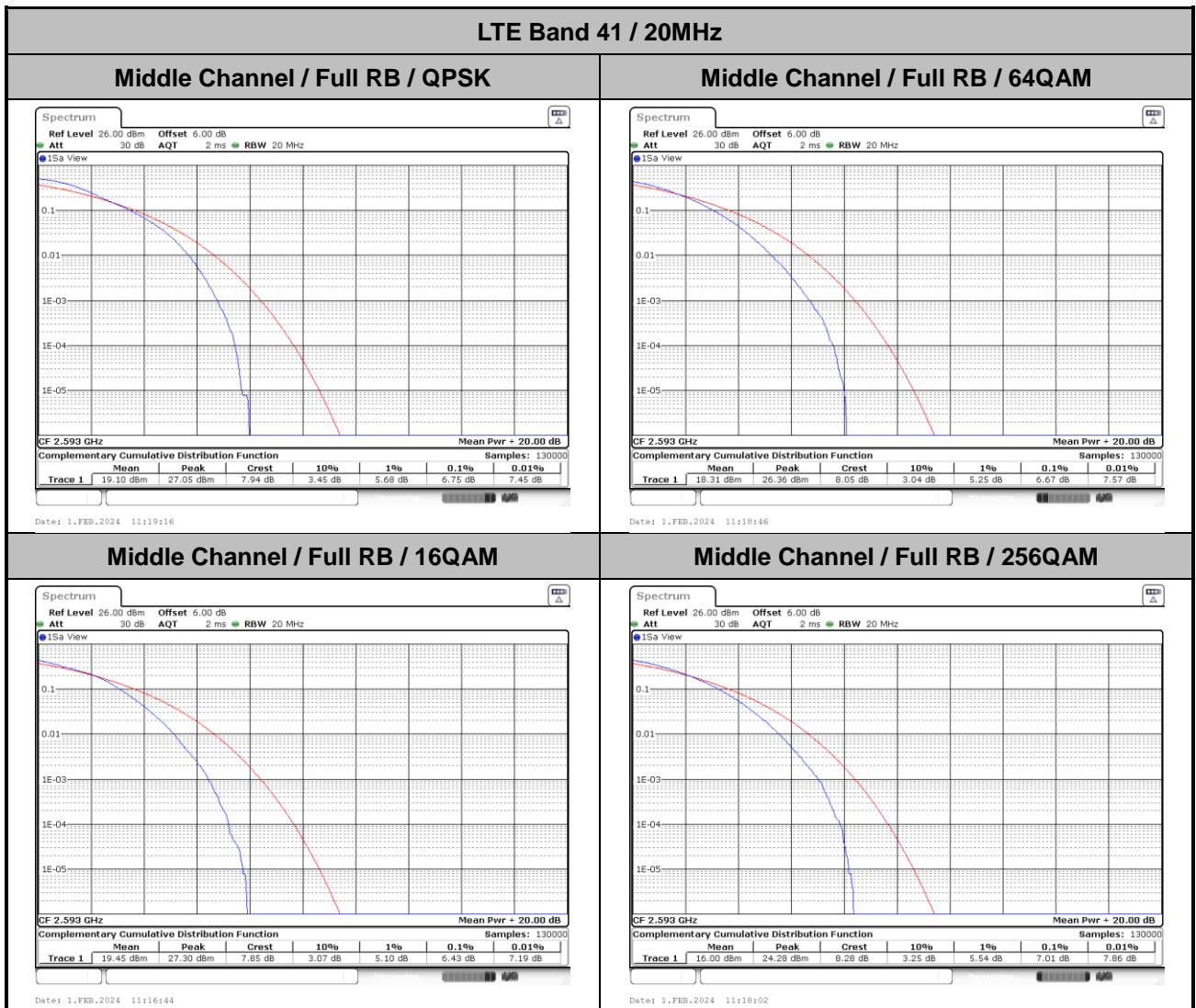




# LTE Band 41(Main PA)

## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.75	6.43	6.67	7.01	PASS





**26dB Bandwidth**

Mode	LTE Band 41 : 26dB BW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	5.09	5.00
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.77	9.73
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	14.27	14.45
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	18.98	18.90

