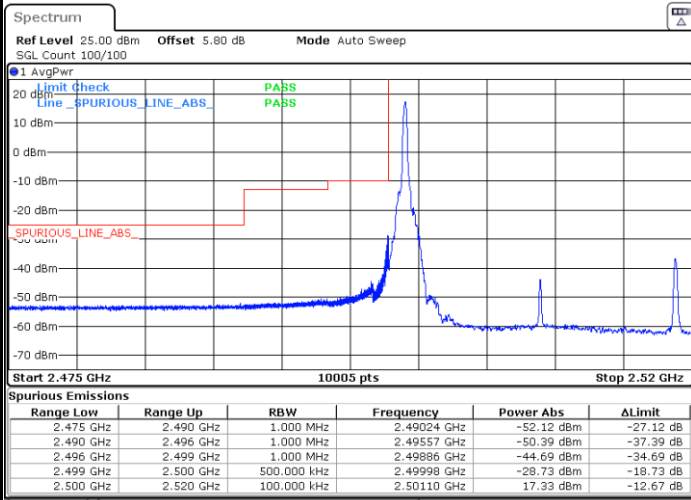




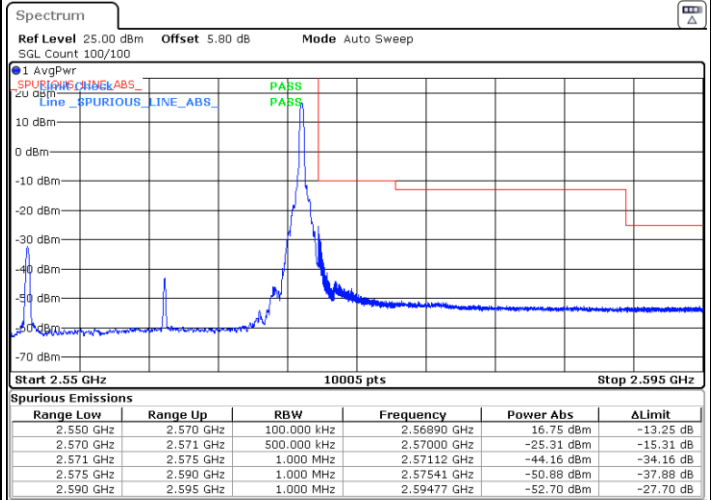
LTE Band 7 / 20MHz /256QAM

Lowest Band Edge / 1 RB



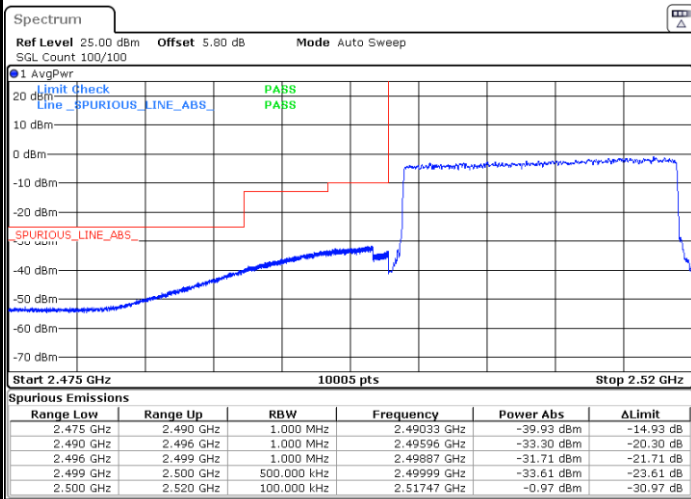
Date: 24.FEB.2023 05:54:09

Highest Band Edge / 1 RB



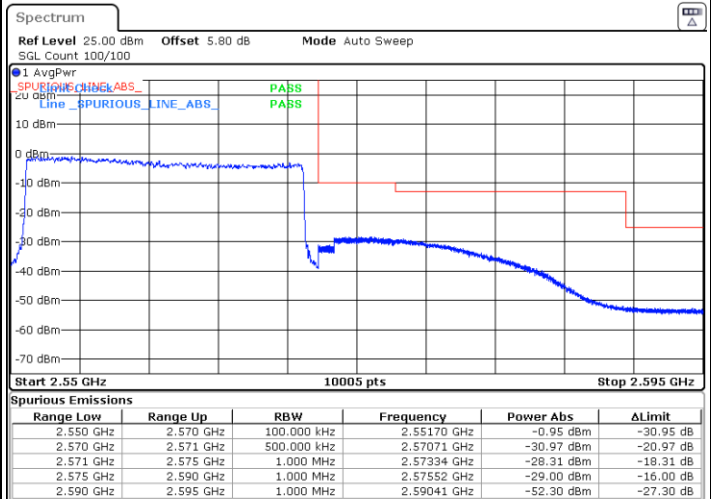
Date: 24.FEB.2023 05:58:29

Lowest Band Edge / Full RB



Date: 24.FEB.2023 05:54:54

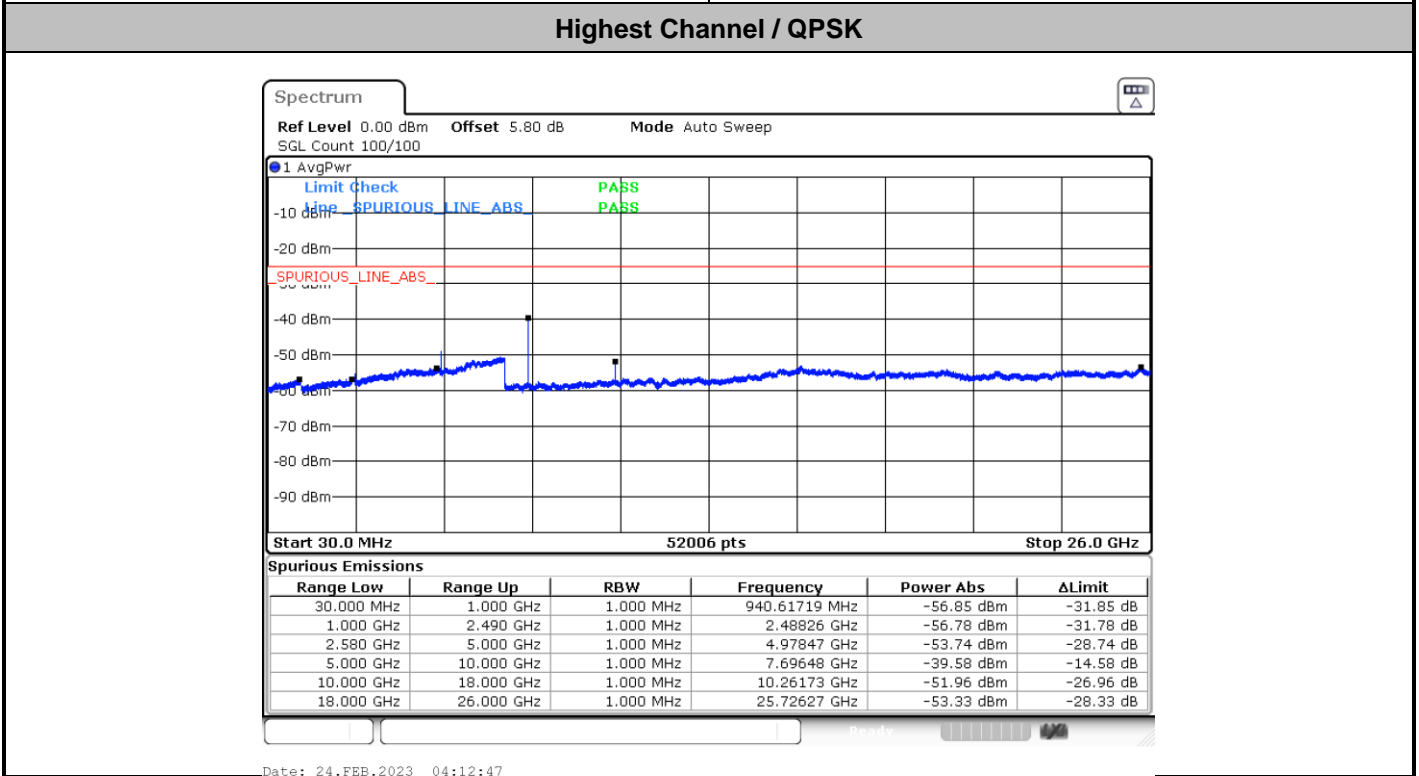
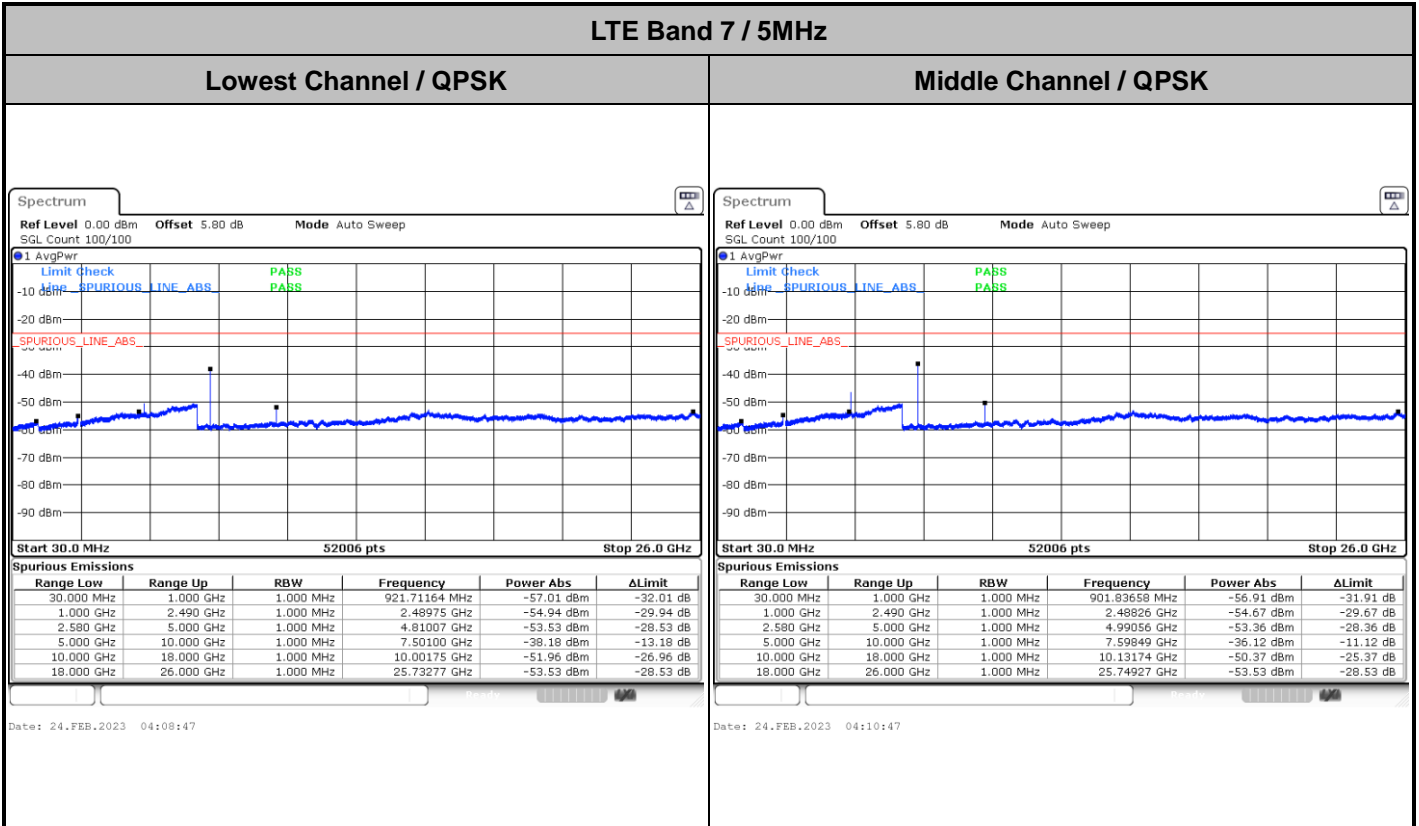
Highest Band Edge / Full RB



Date: 24.FEB.2023 05:58:00



# Conducted Spurious Emission

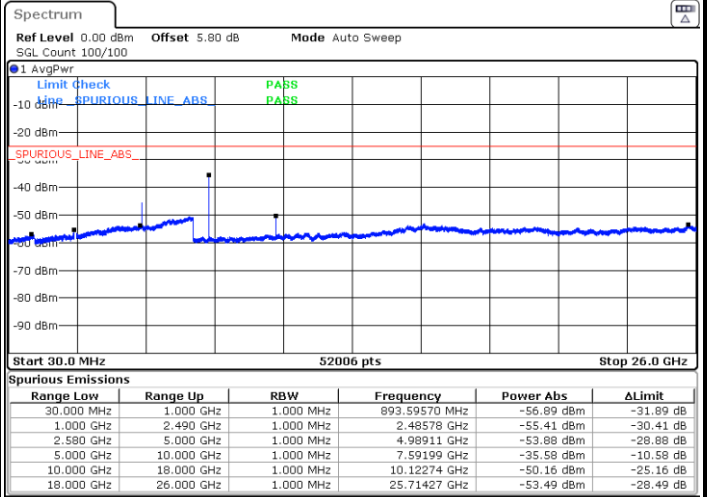
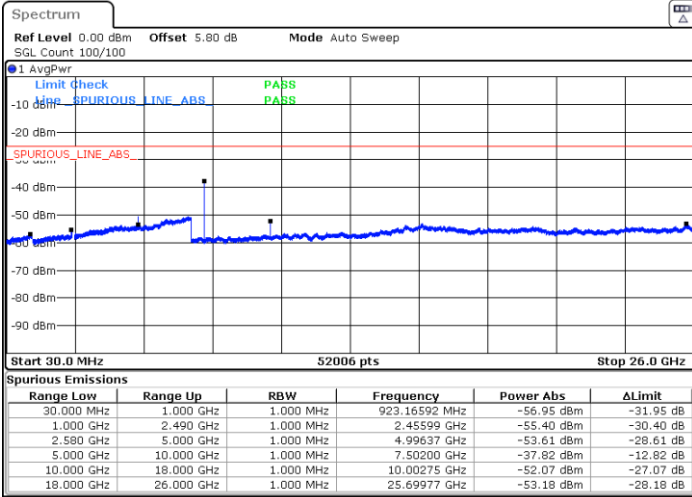




LTE Band 7 / 10MHz

Lowest Channel / QPSK

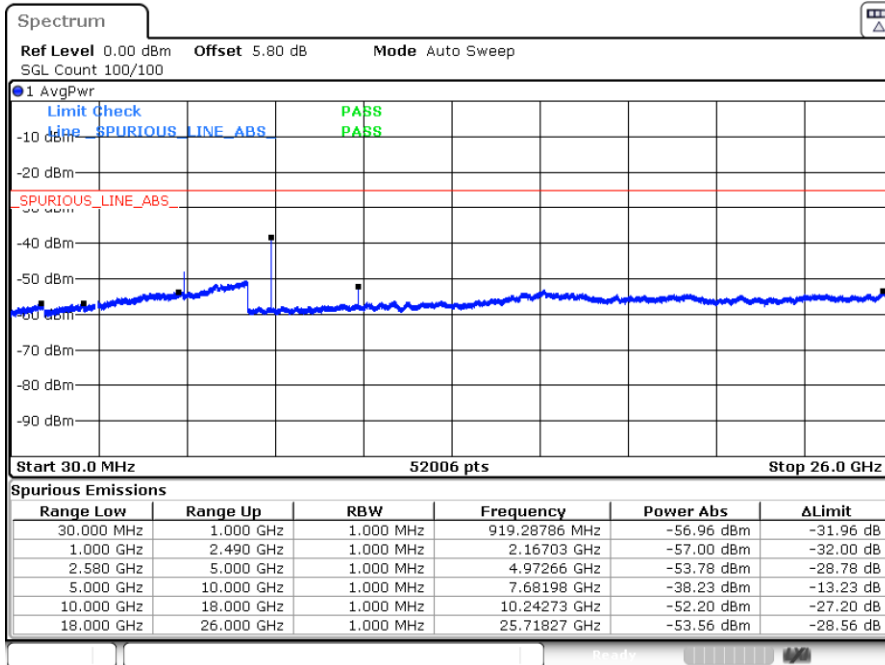
Middle Channel / QPSK



Date: 24.FEB.2023 04:47:50

Date: 24.FEB.2023 04:49:50

Highest Channel / QPSK

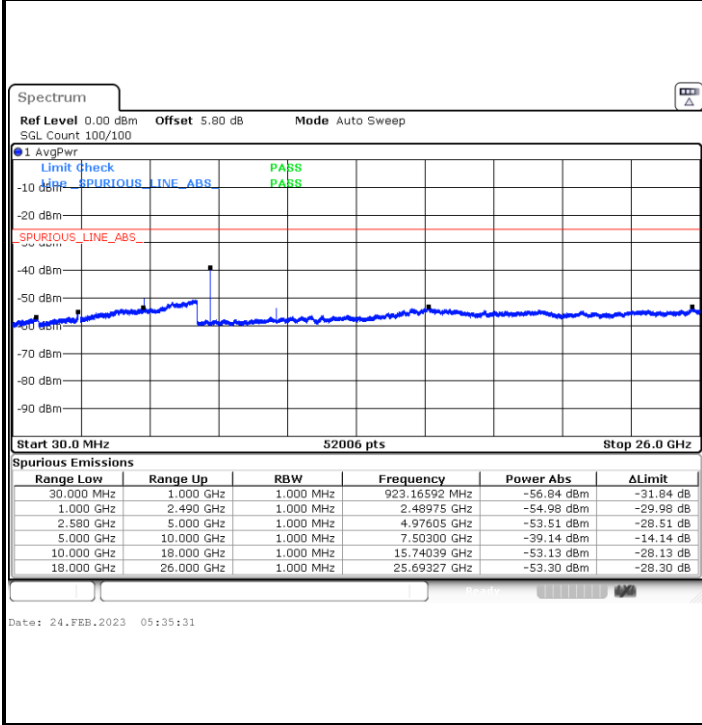


Date: 24.FEB.2023 04:51:51

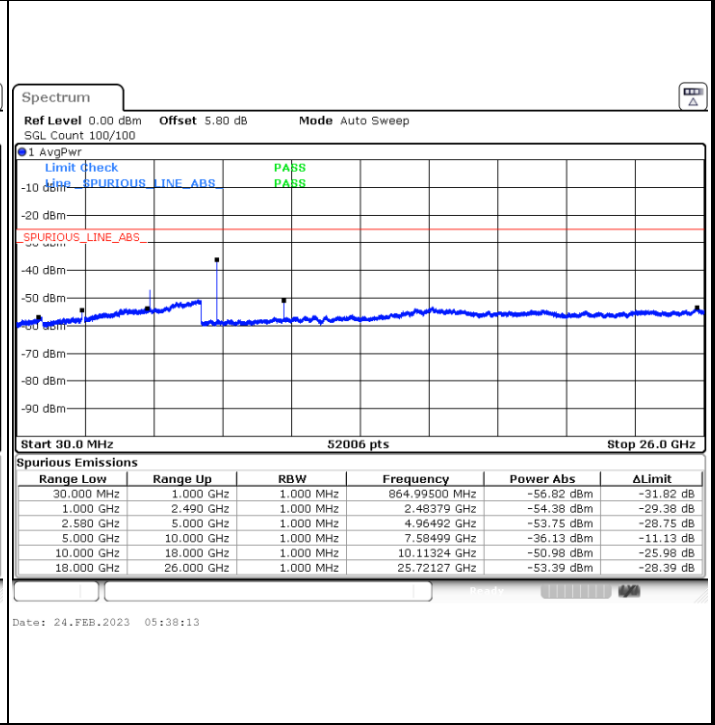


**LTE Band 7 / 15MHz**

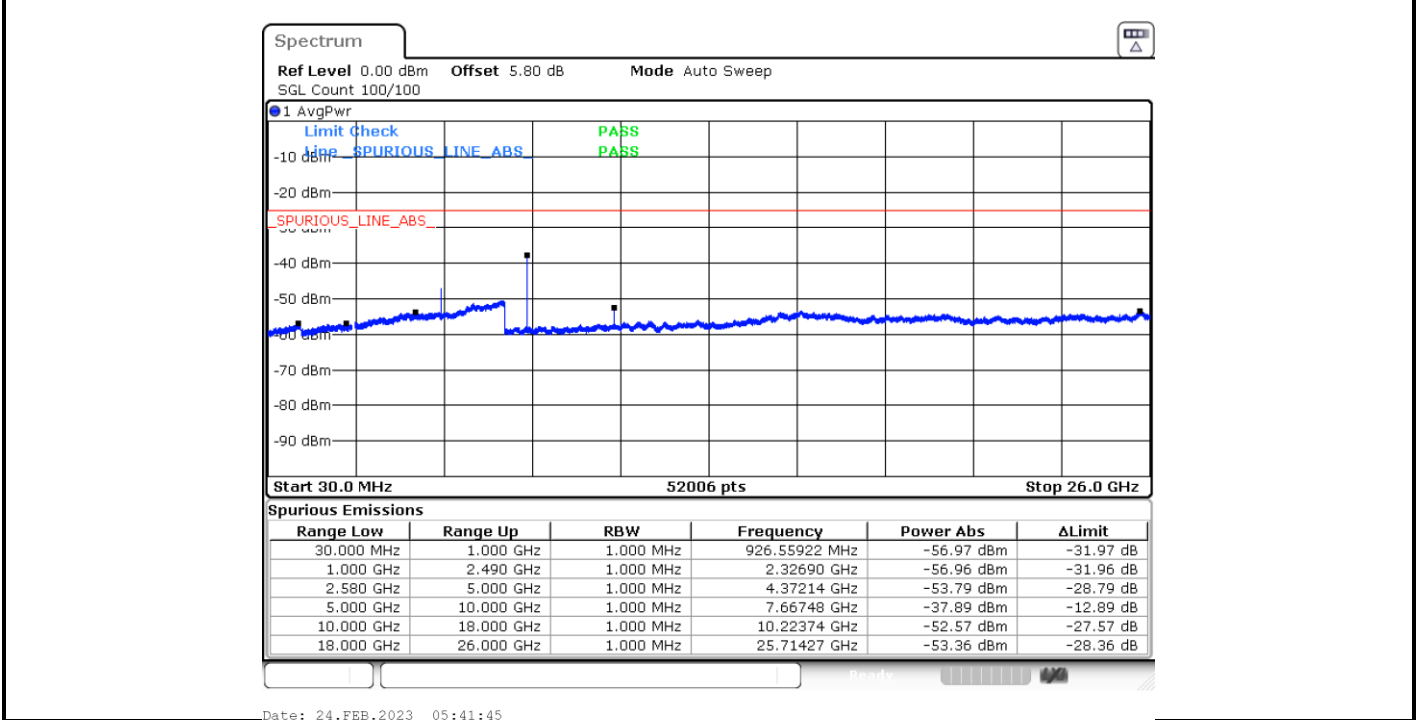
**Lowest Channel / QPSK**



**Middle Channel / QPSK**



**Highest Channel / QPSK**

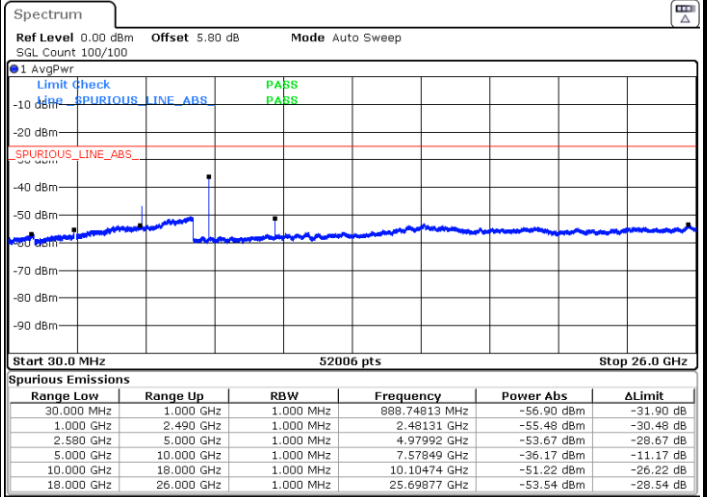
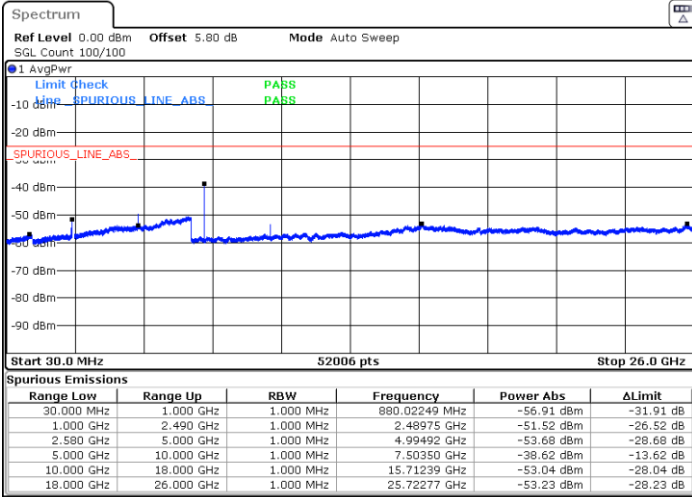




LTE Band 7 / 20MHz

Lowest Channel / QPSK

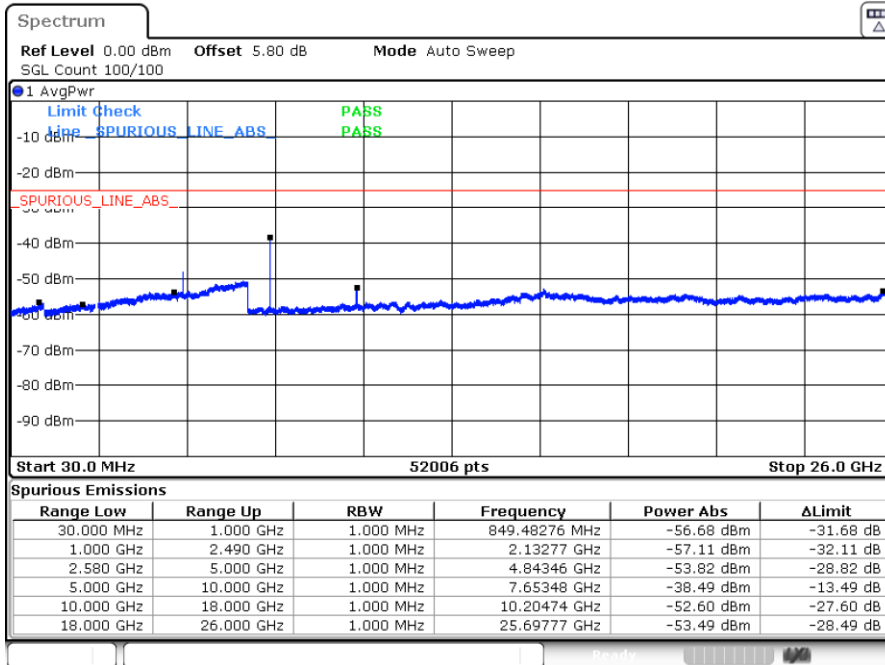
Middle Channel / QPSK



Date: 24.FEB.2023 05:52:02

Date: 24.FEB.2023 05:50:37

Highest Channel / QPSK



Date: 24.FEB.2023 06:01:09



### 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	0.0013	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0010	

**Note:**

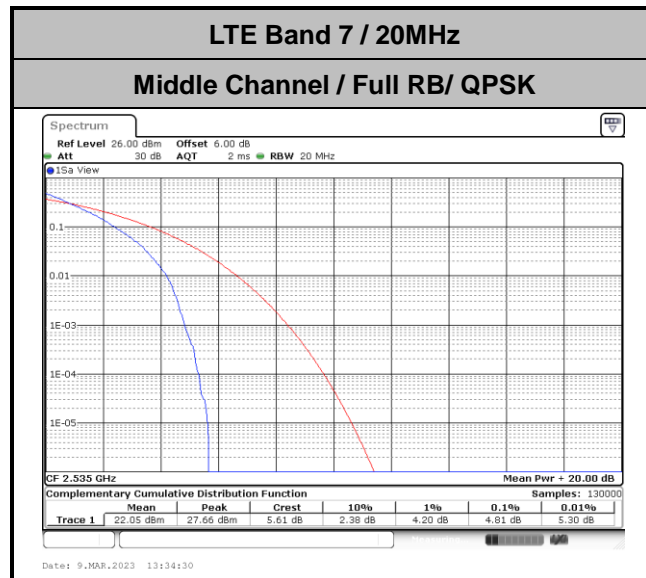
1. Normal Voltage =3.86 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.43 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

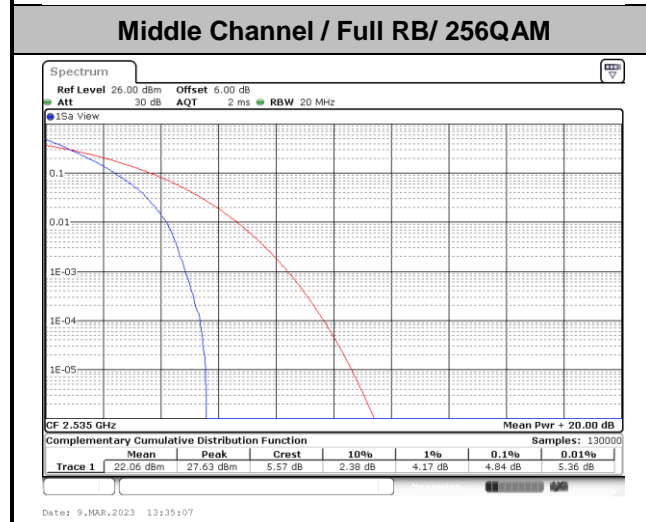
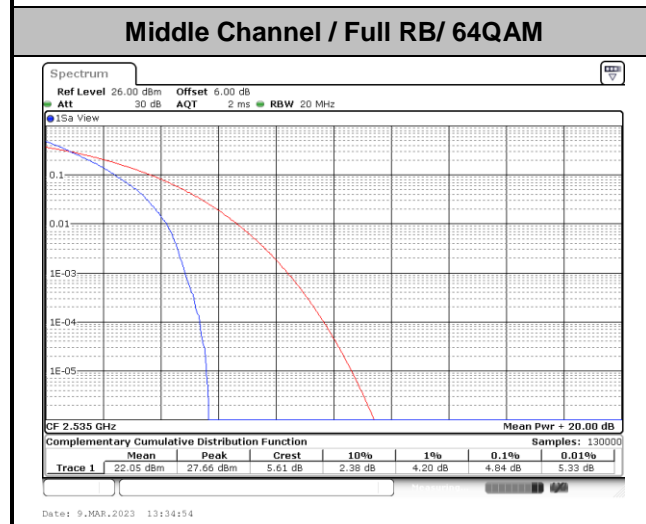
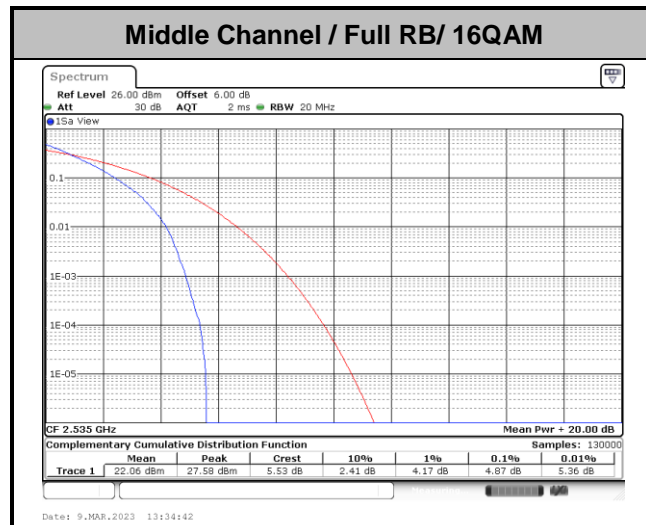


# LTE Band 7 for Other PA

## Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.81	4.87	4.84	4.84	PASS



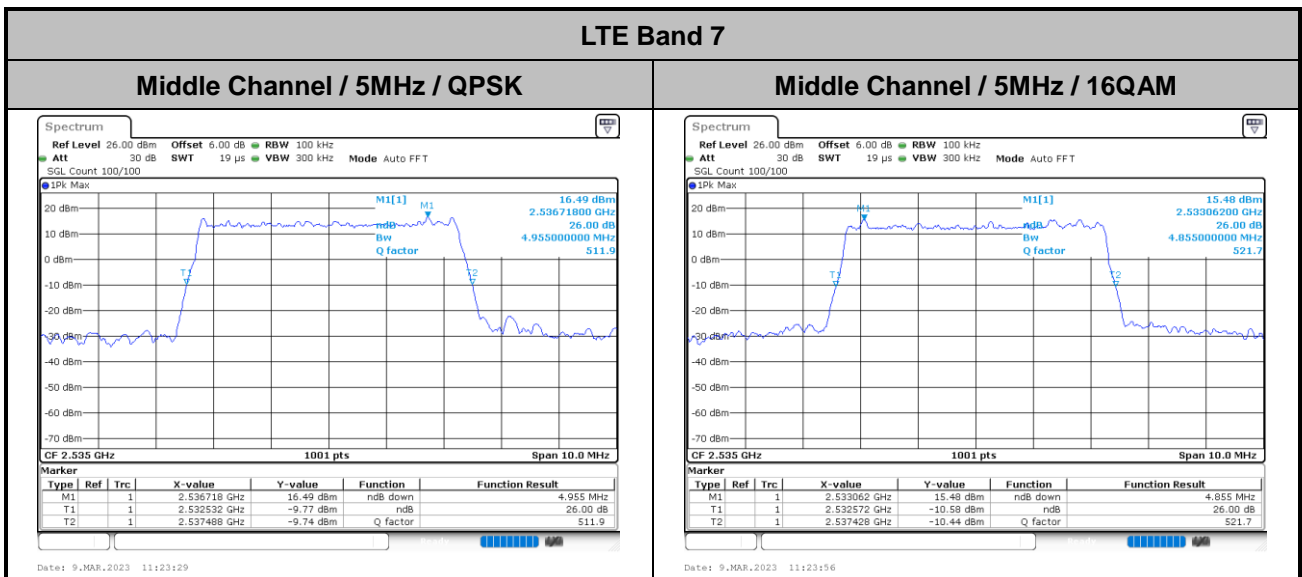






## 26dB Bandwidth

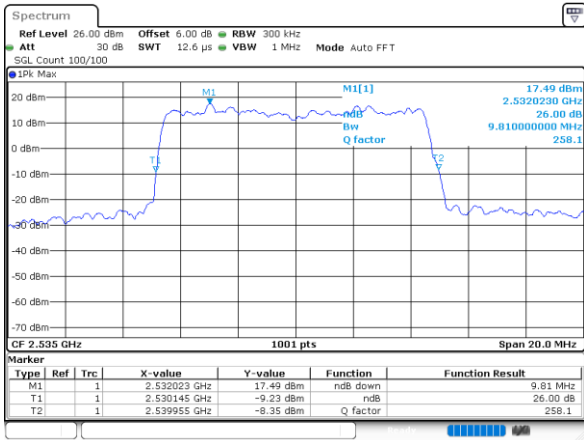
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.96	4.86
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.81	9.85
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.27	14.30
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.02	19.14



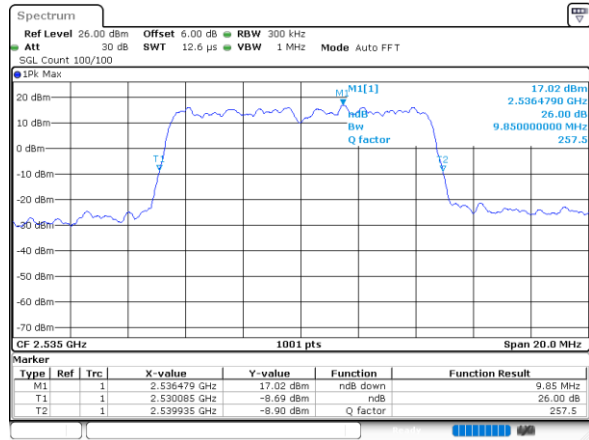


LTE Band 7

Middle Channel / 10MHz / QPSK

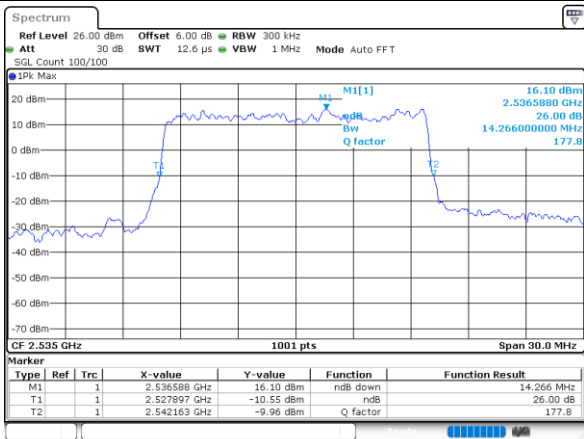


Middle Channel / 10MHz / 16QAM

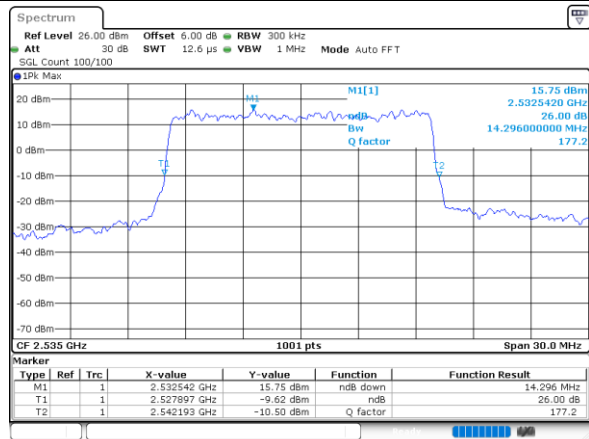


LTE Band 7

Middle Channel / 15MHz / QPSK

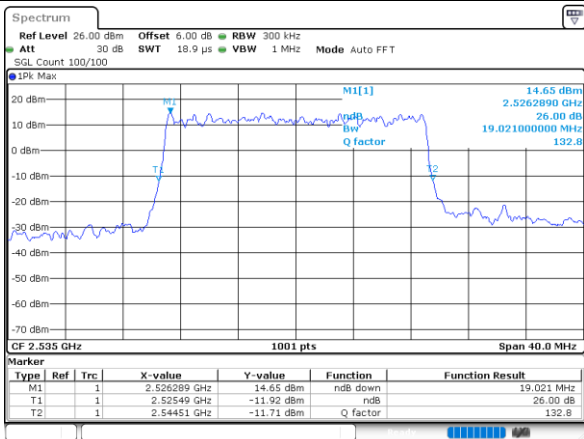


Middle Channel / 15MHz / 16QAM

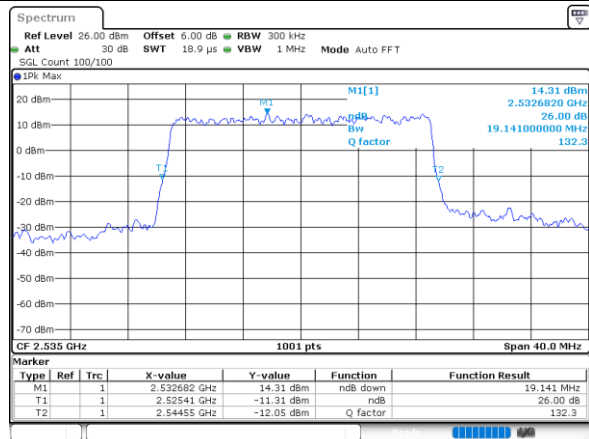


LTE Band 7

Middle Channel / 20MHz / QPSK



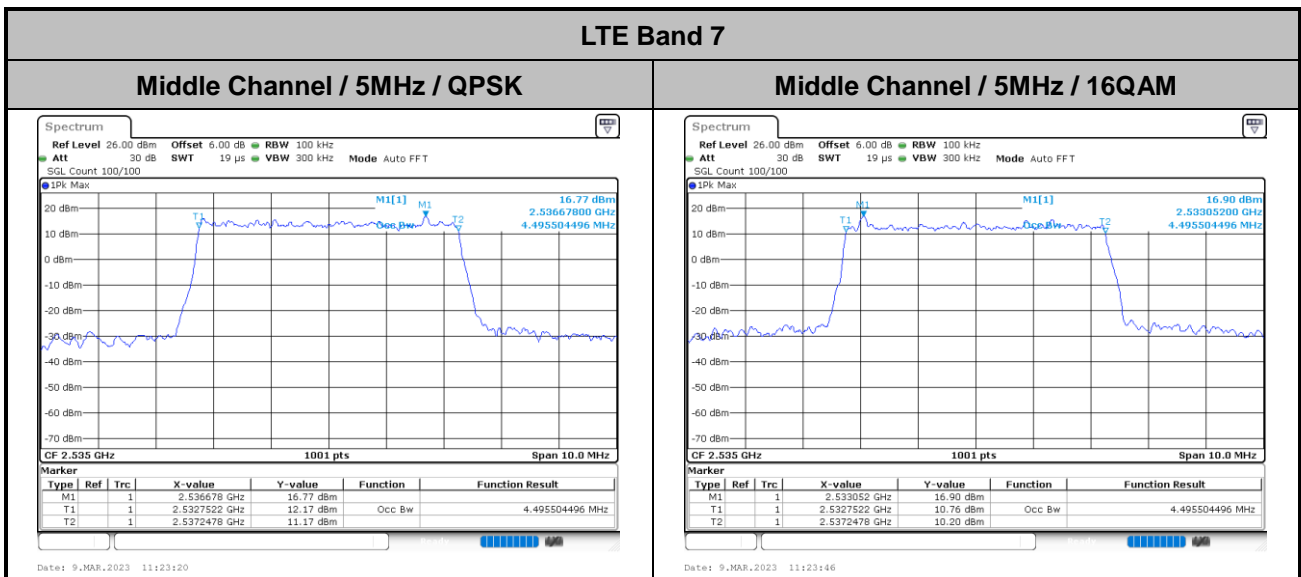
Middle Channel / 20MHz / 16QAM





## Occupied Bandwidth

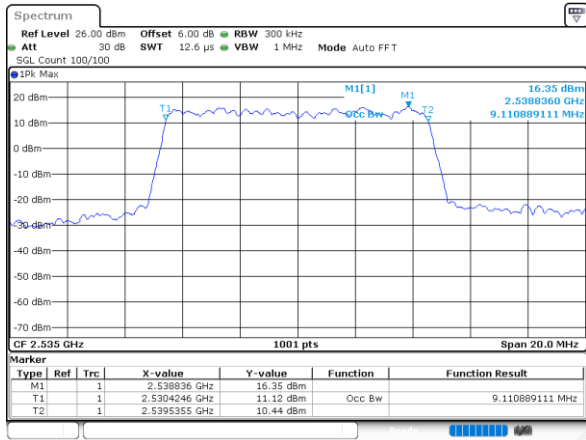
Mode	LTE Band 7 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.11	9.13
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.52	13.46
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.94	17.90





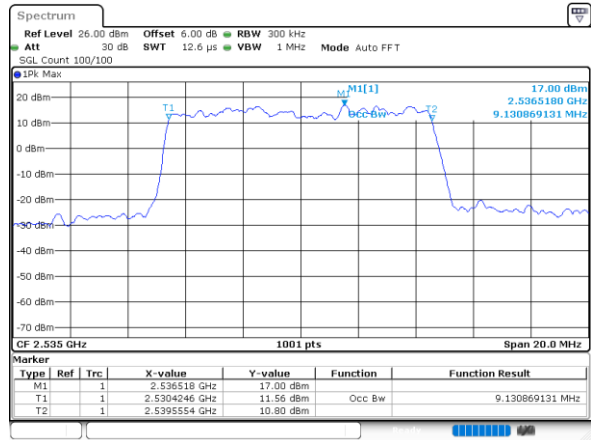
LTE Band 7

Middle Channel / 10MHz / QPSK



Date: 9\_MAR.2023 13:04:51

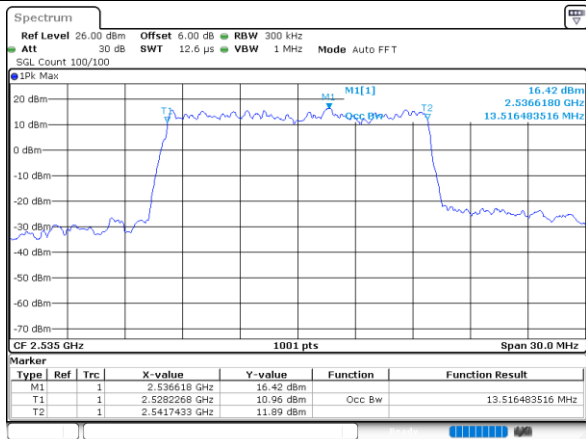
Middle Channel / 10MHz / 16QAM



Date: 9\_MAR.2023 13:05:19

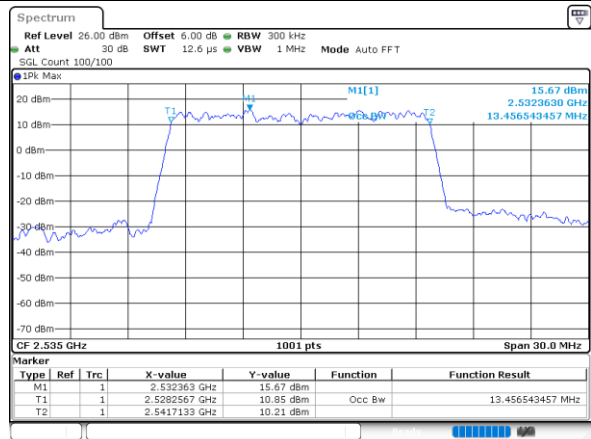
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 9\_MAR.2023 13:18:43

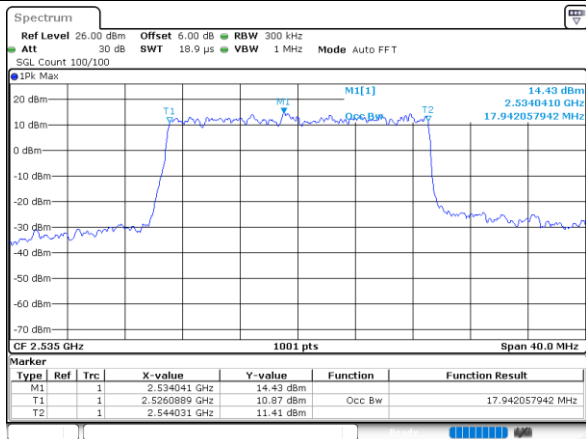
Middle Channel / 15MHz / 16QAM



Date: 9\_MAR.2023 13:21:21

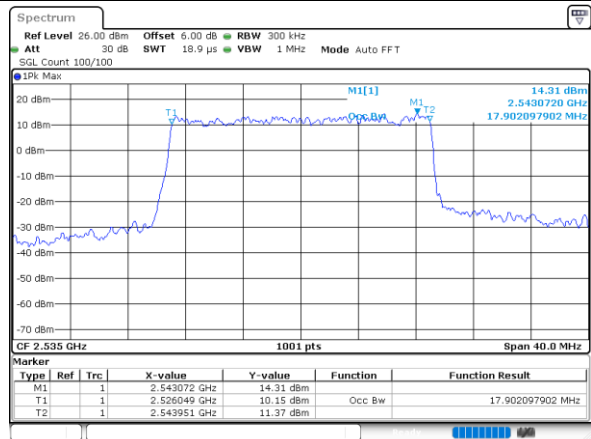
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 9\_MAR.2023 13:33:19

Middle Channel / 20MHz / 16QAM



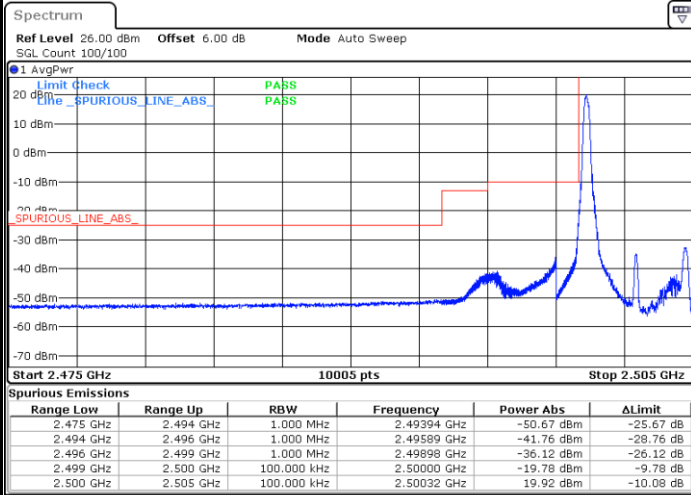
Date: 9\_MAR.2023 13:33:44



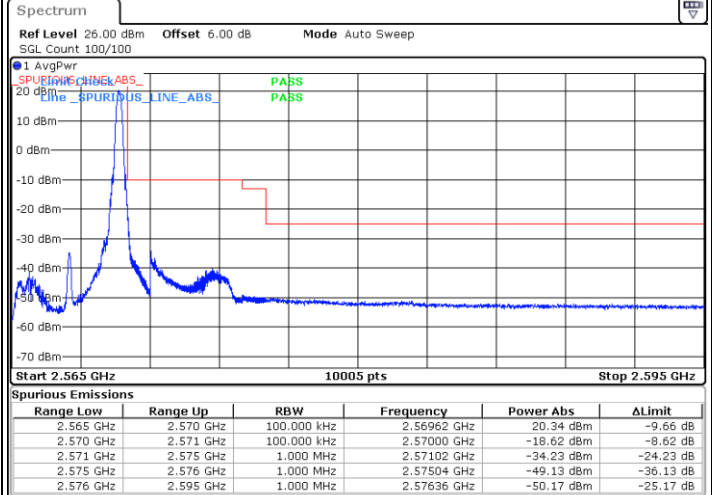
# Conducted Band Edge

## LTE Band 7 / 5MHz / QPSK

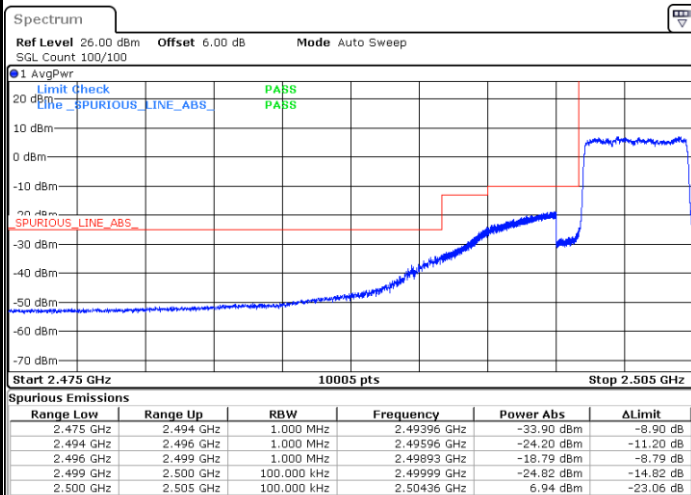
### Lowest Band Edge / 1 RB



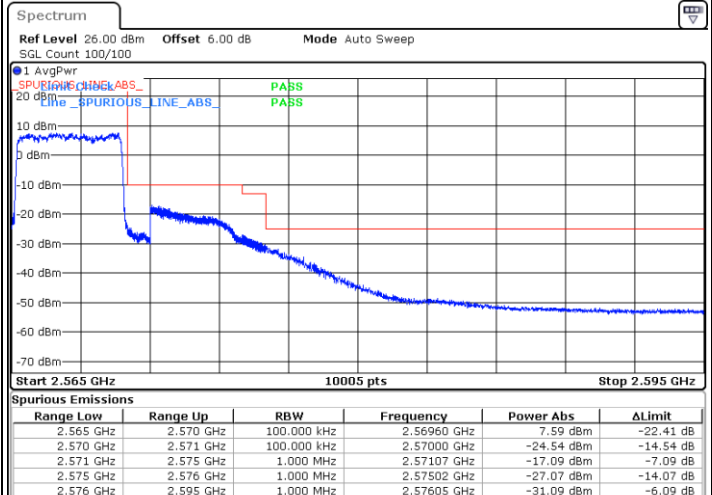
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



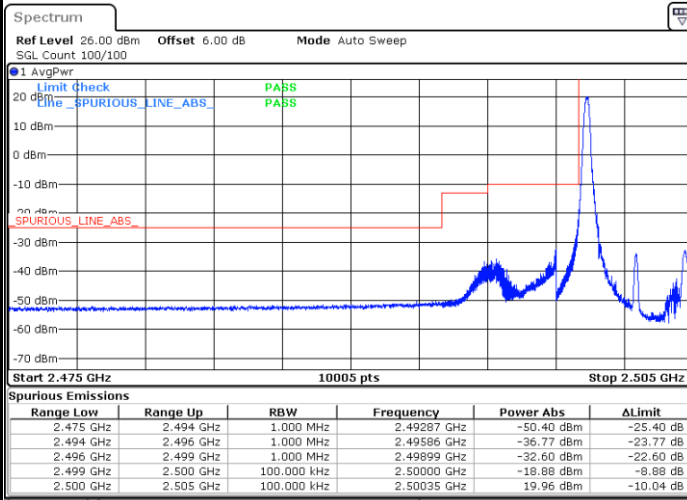
### Highest Band Edge / Full RB





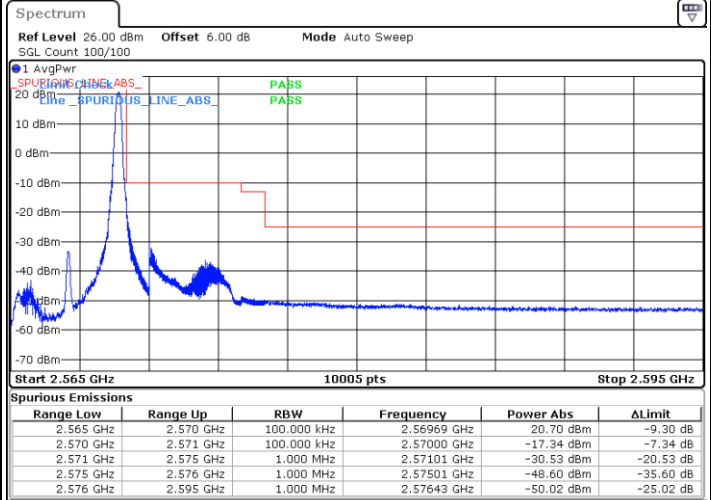
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



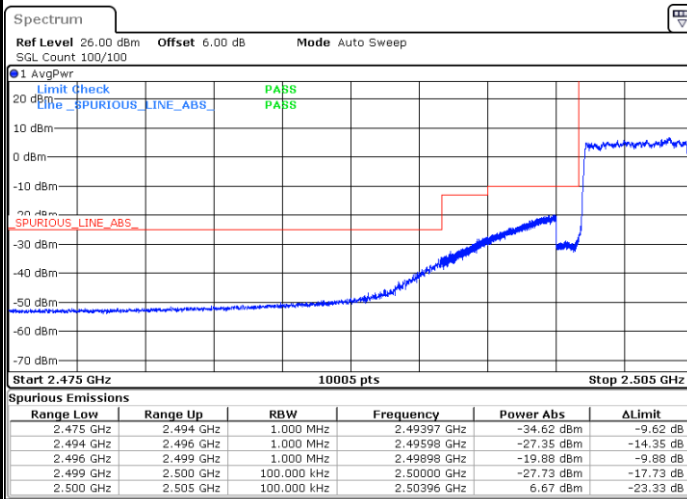
Date: 9.MAR.2023 11:18:40

Highest Band Edge / 1 RB



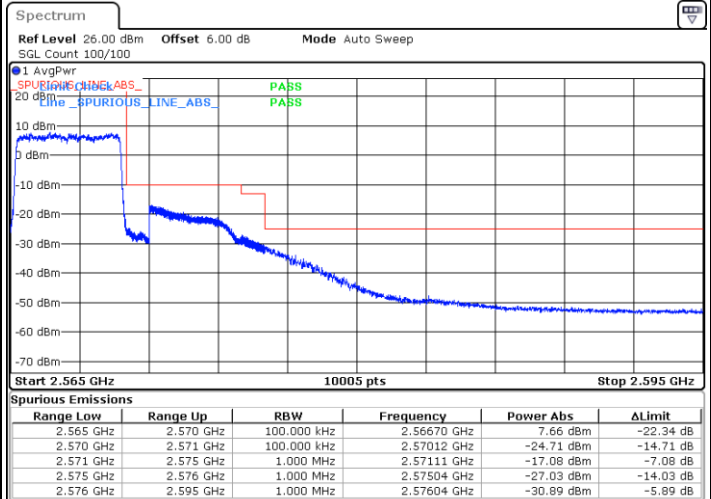
Date: 9.MAR.2023 11:27:27

Lowest Band Edge / Full RB



Date: 9.MAR.2023 11:16:40

Highest Band Edge / Full RB

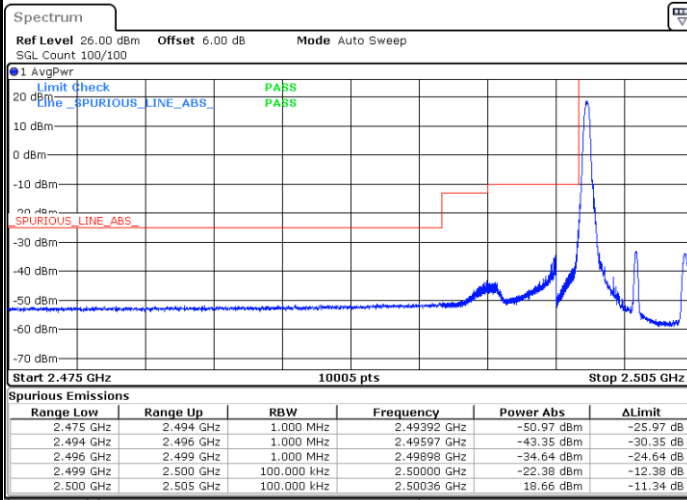


Date: 9.MAR.2023 11:25:15



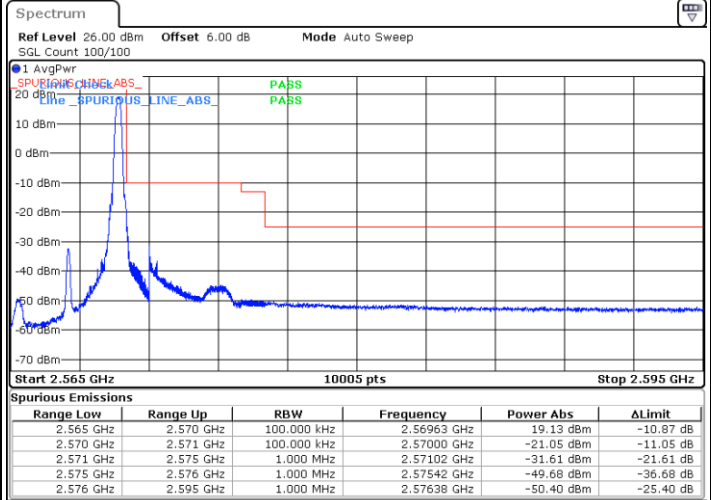
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



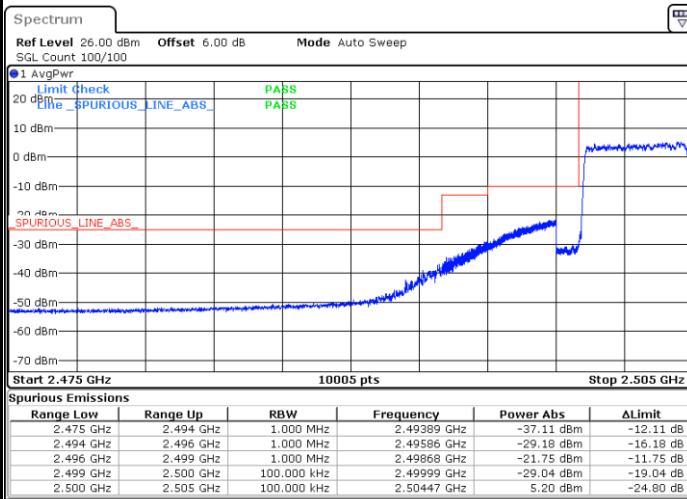
Date: 9.MAR.2023 11:18:19

Highest Band Edge / 1 RB



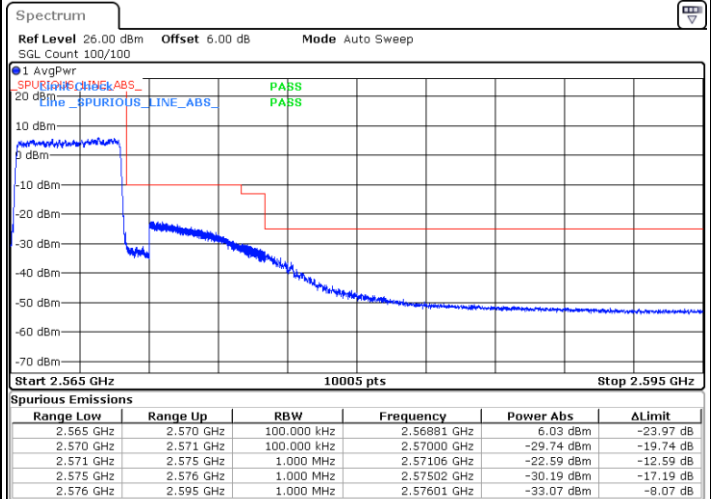
Date: 9.MAR.2023 11:27:03

Lowest Band Edge / Full RB



Date: 9.MAR.2023 11:17:04

Highest Band Edge / Full RB

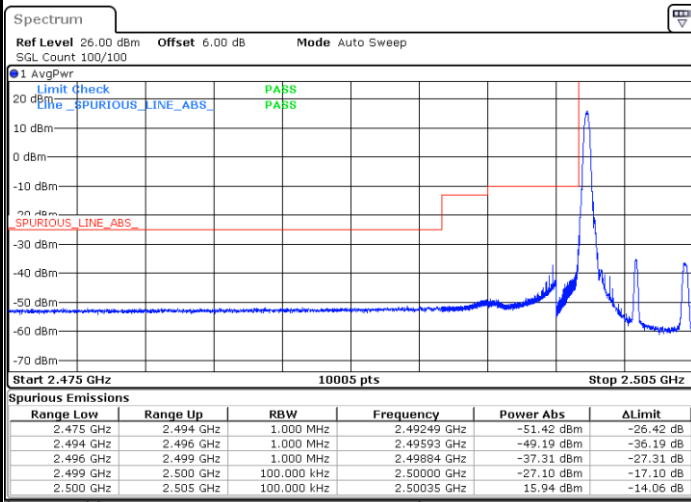


Date: 9.MAR.2023 11:25:39



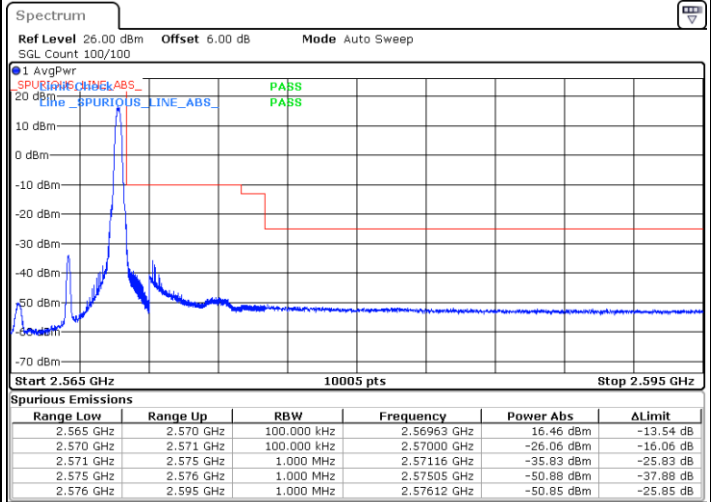
LTE Band 7 / 5MHz / 256QAM

Lowest Band Edge / 1RB



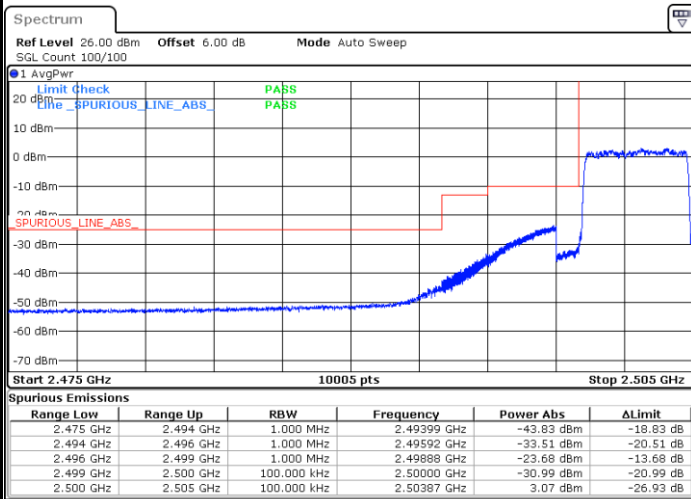
Date: 9.MAR.2023 11:17:56

Highest Band Edge / 1 RB



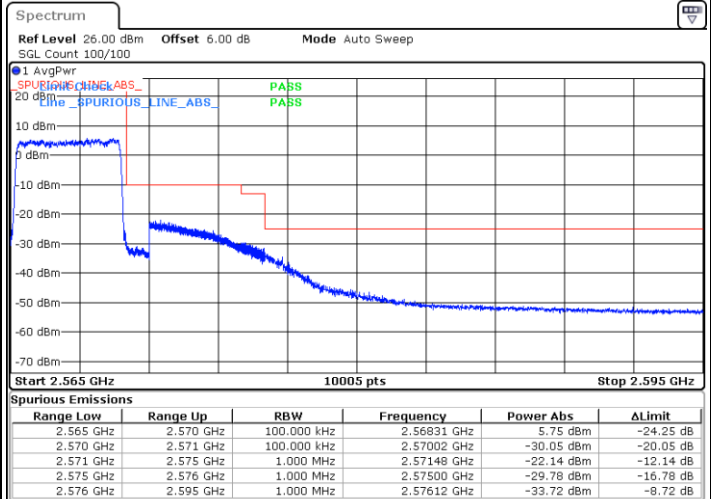
Date: 9.MAR.2023 11:26:42

Lowest Band Edge / Full RB



Date: 9.MAR.2023 11:17:26

Highest Band Edge / Full RB



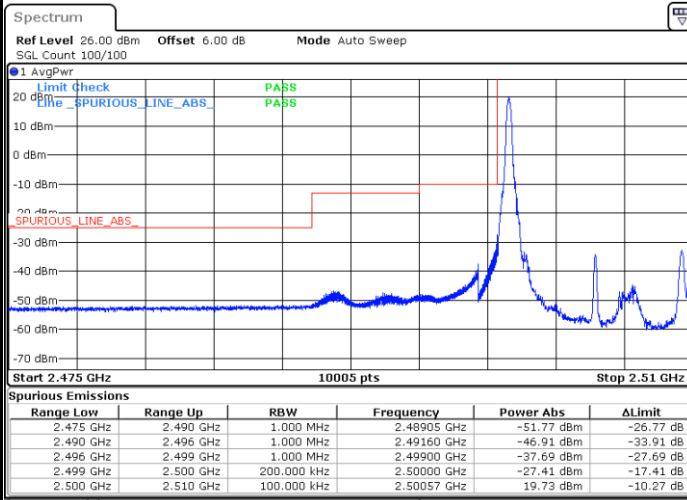
Date: 9.MAR.2023 11:26:00





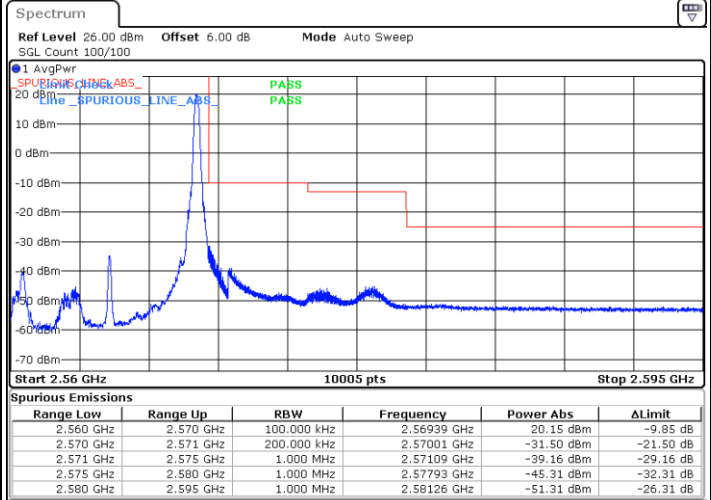
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



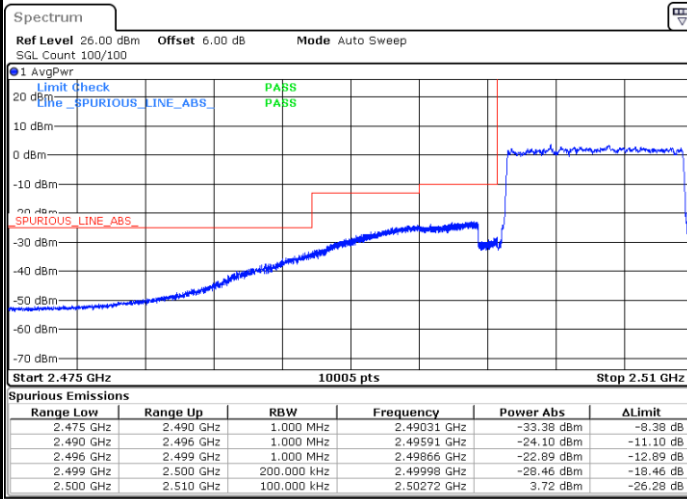
Date: 9.MAR.2023 11:35:24

Highest Band Edge / 1 RB



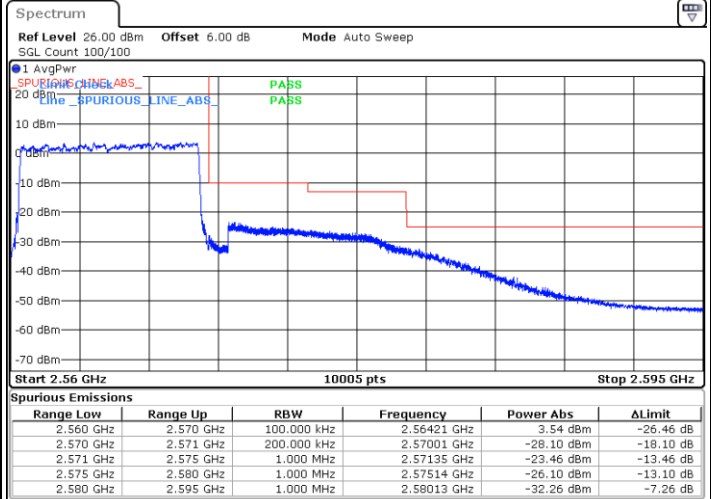
Date: 9.MAR.2023 13:10:49

Lowest Band Edge / Full RB



Date: 9.MAR.2023 11:38:16

Highest Band Edge / Full RB

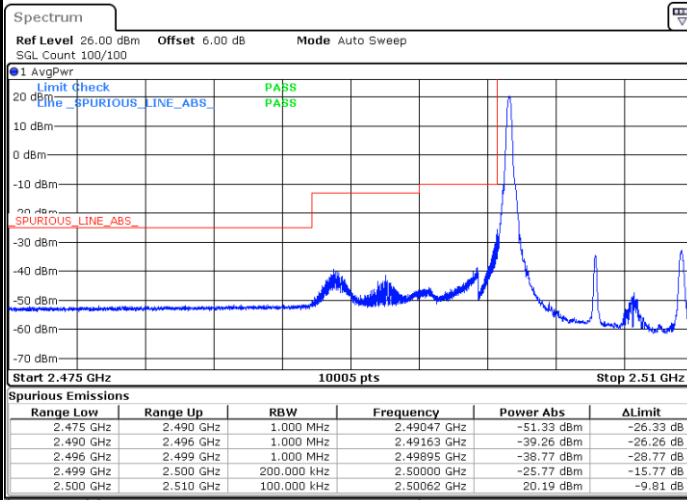


Date: 9.MAR.2023 13:06:50



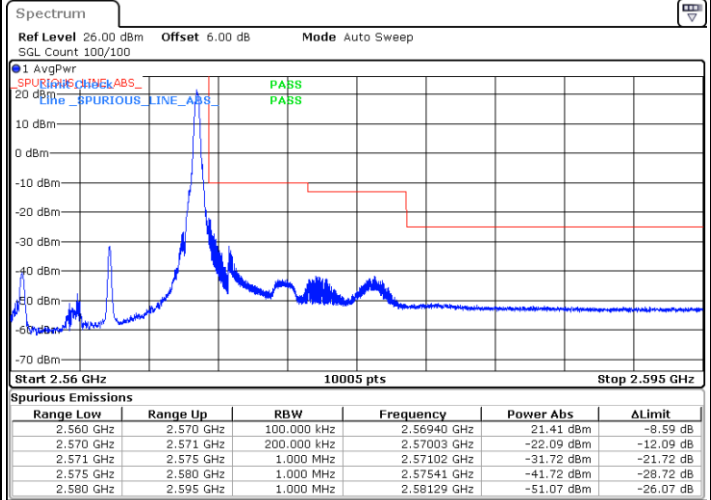
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



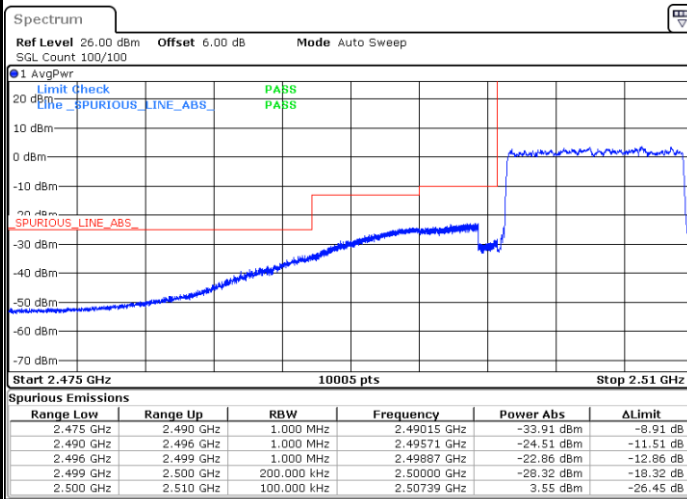
Date: 9.MAR.2023 11:35:54

Highest Band Edge / 1 RB



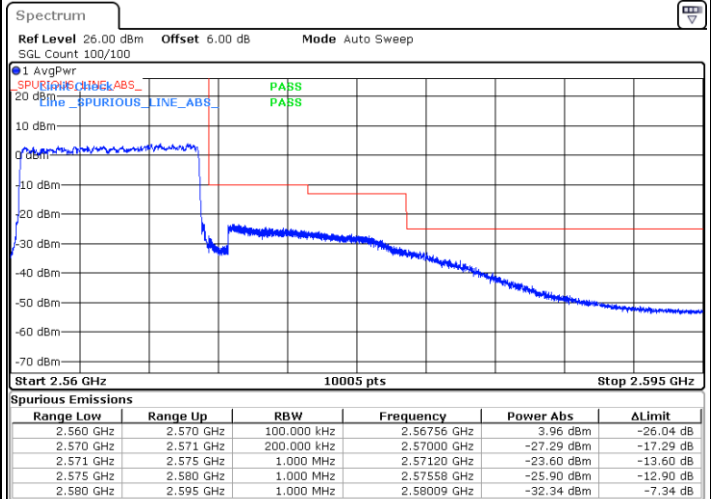
Date: 9.MAR.2023 13:10:31

Lowest Band Edge / Full RB



Date: 9.MAR.2023 11:37:59

Highest Band Edge / Full RB

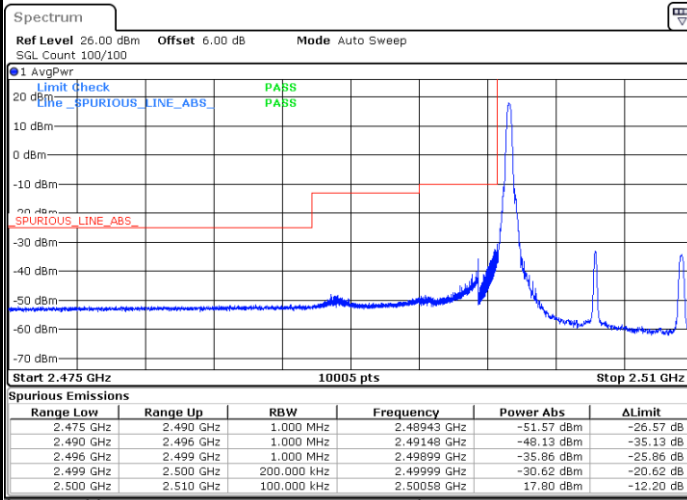


Date: 9.MAR.2023 13:08:39



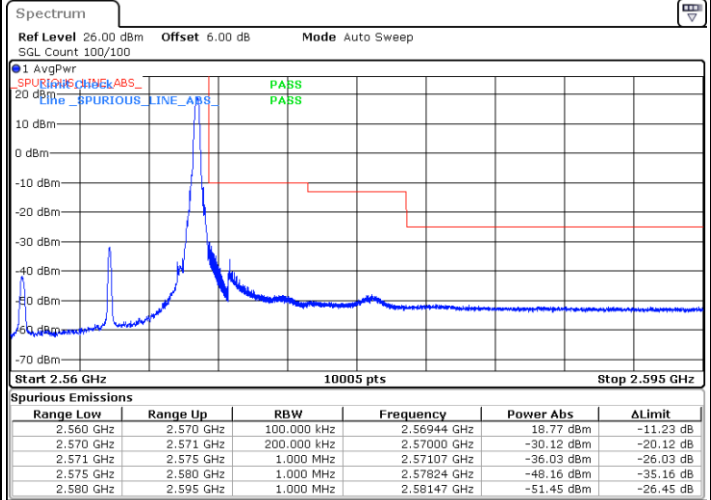
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



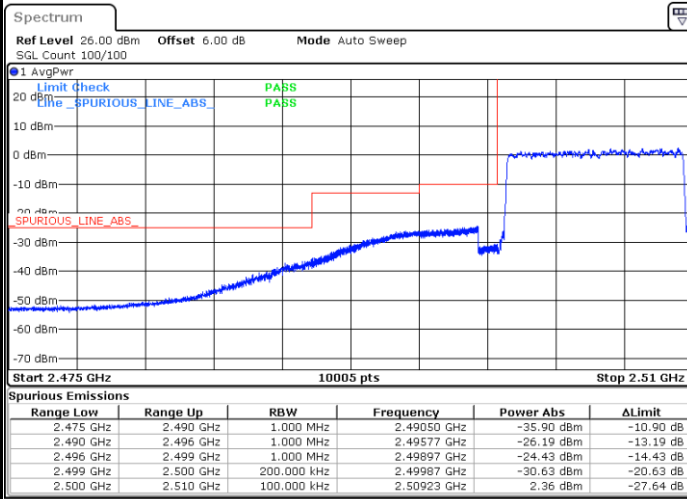
Date: 9.MAR.2023 11:36:15

Highest Band Edge / 1 RB



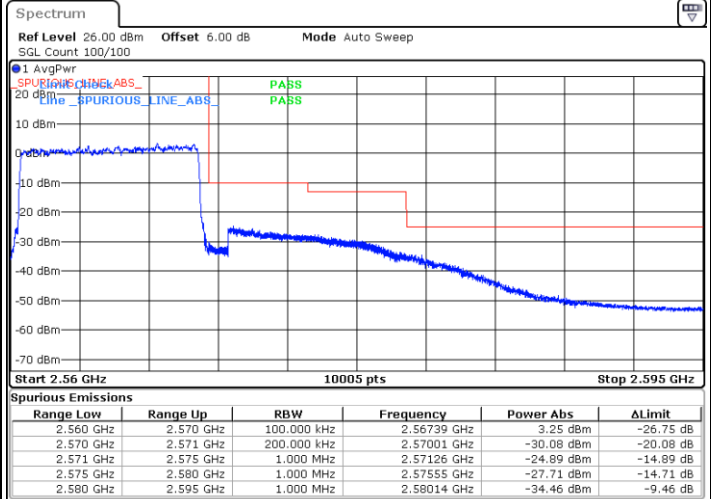
Date: 9.MAR.2023 13:10:08

Lowest Band Edge / Full RB



Date: 9.MAR.2023 11:37:37

Highest Band Edge / Full RB

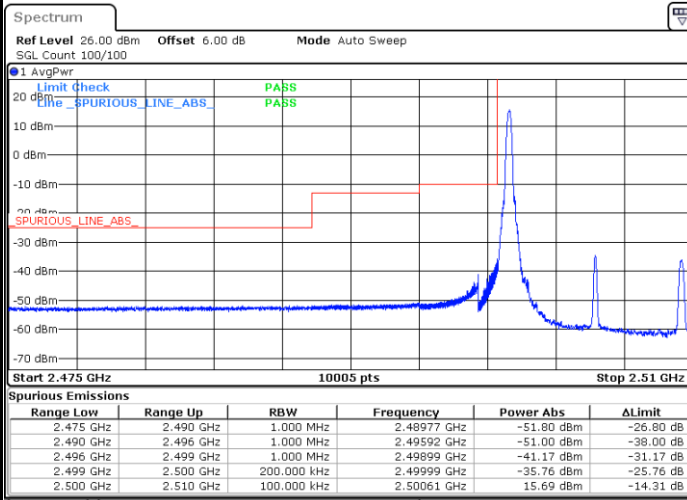


Date: 9.MAR.2023 13:09:00



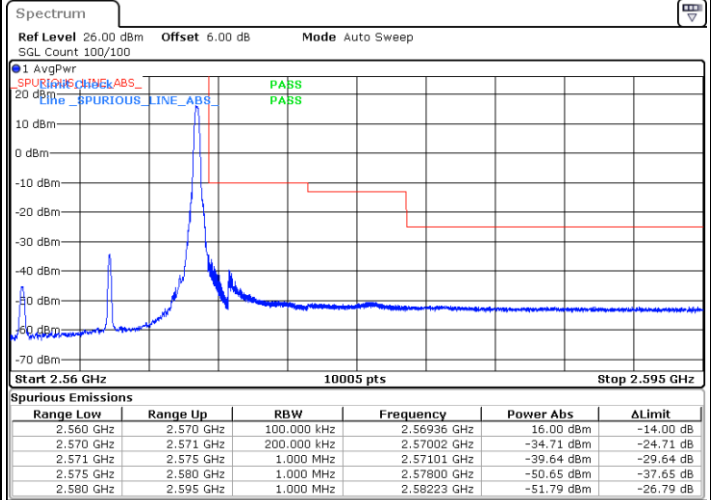
LTE Band 7 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



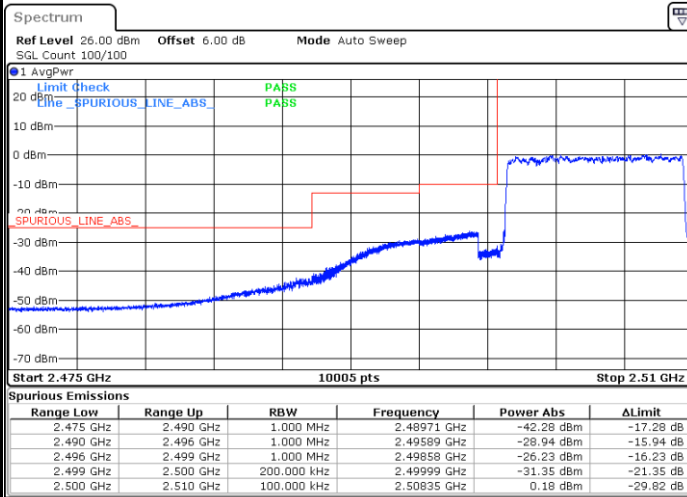
Date: 9.MAR.2023 11:36:37

Highest Band Edge / 1 RB



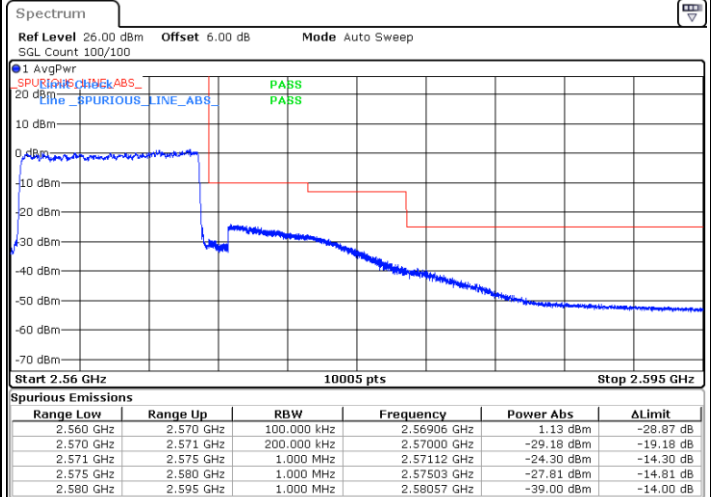
Date: 9.MAR.2023 13:09:47

Lowest Band Edge / Full RB



Date: 9.MAR.2023 11:37:14

Highest Band Edge / Full RB

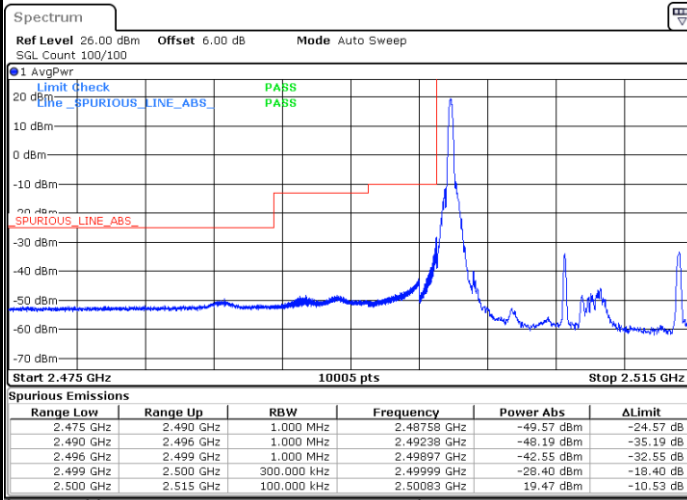


Date: 9.MAR.2023 13:09:20



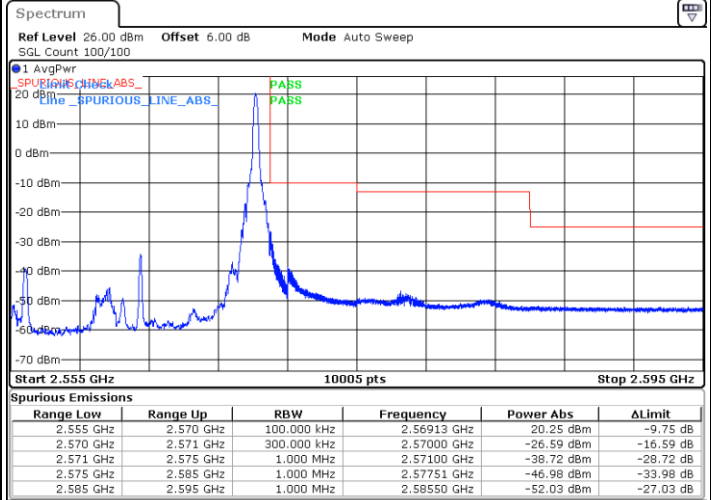
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



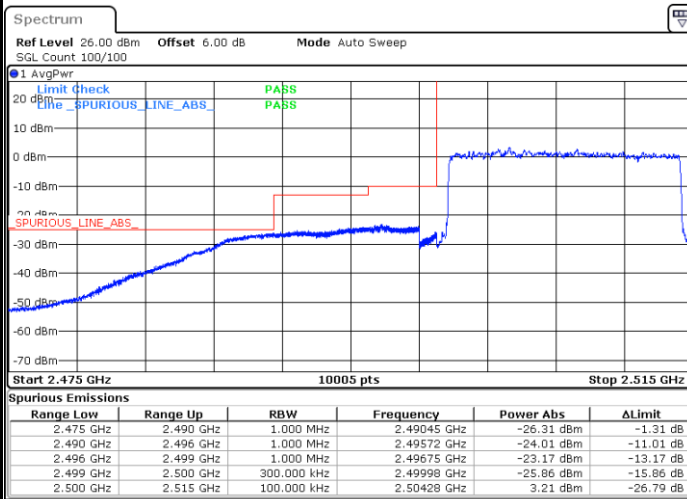
Date: 9.MAR.2023 13:11:40

Highest Band Edge / 1 RB



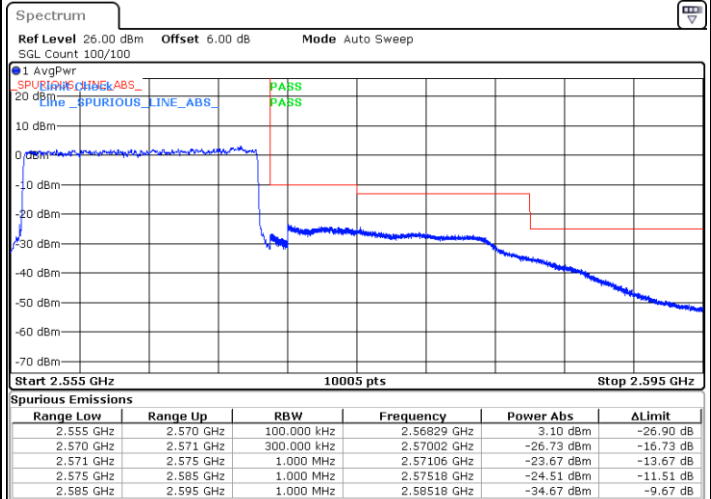
Date: 9.MAR.2023 13:25:57

Lowest Band Edge / Full RB



Date: 9.MAR.2023 13:14:35

Highest Band Edge / Full RB

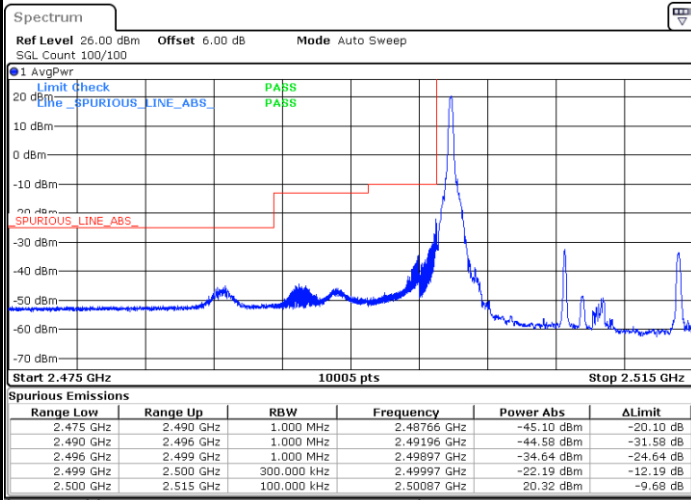


Date: 9.MAR.2023 13:22:31



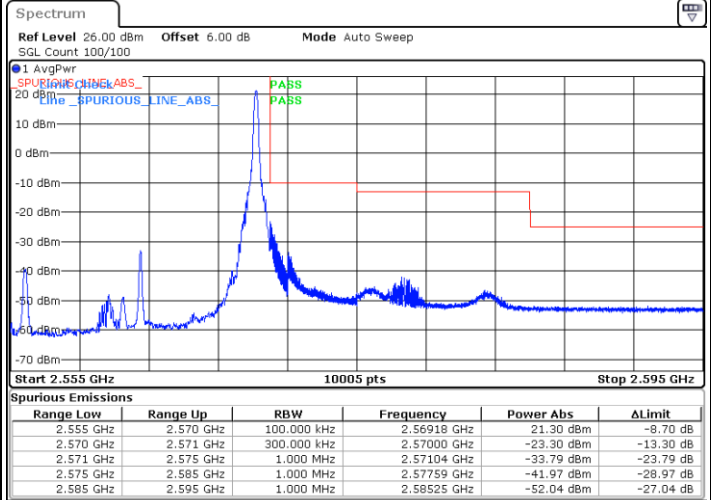
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



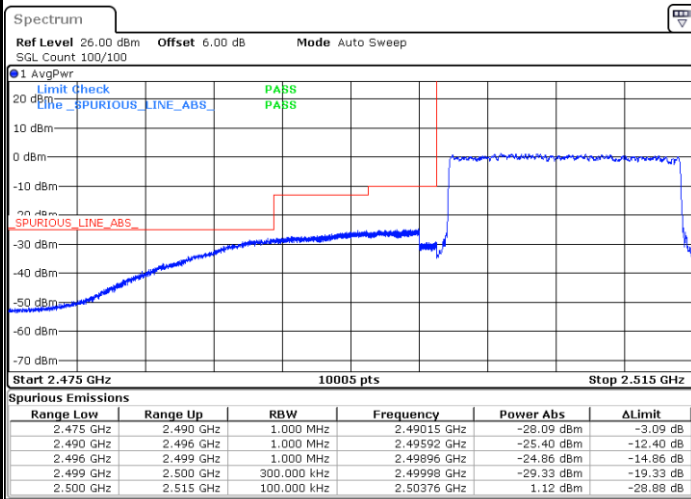
Date: 9.MAR.2023 13:12:04

Highest Band Edge / 1 RB



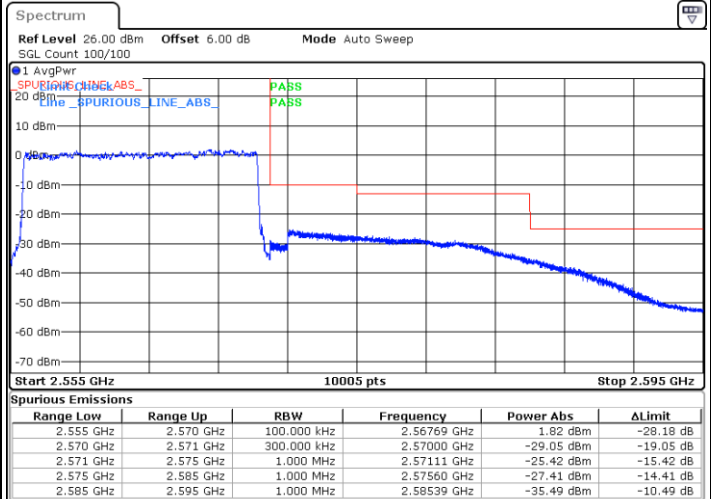
Date: 9.MAR.2023 13:25:37

Lowest Band Edge / Full RB



Date: 9.MAR.2023 13:13:59

Highest Band Edge / Full RB

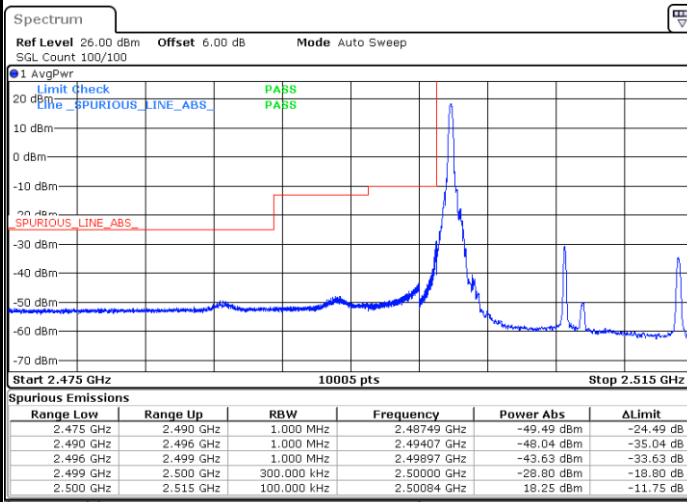


Date: 9.MAR.2023 13:22:54



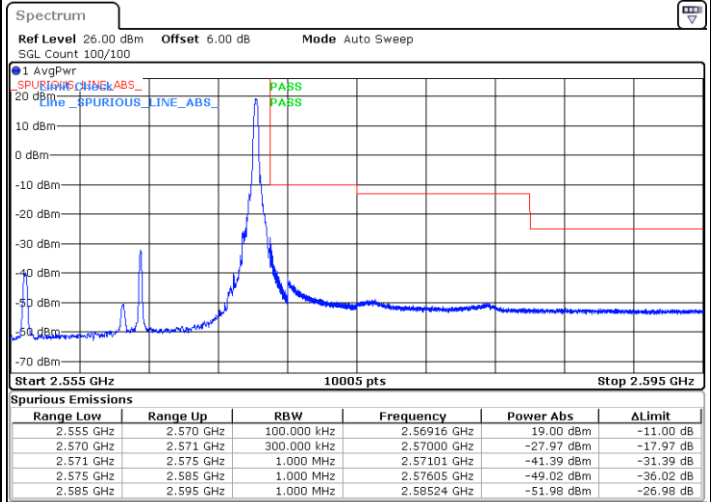
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



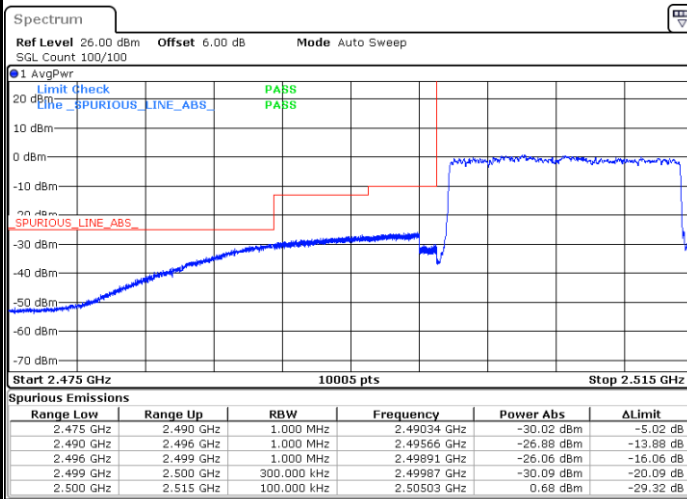
Date: 9.MAR.2023 13:12:27

Highest Band Edge / 1 RB



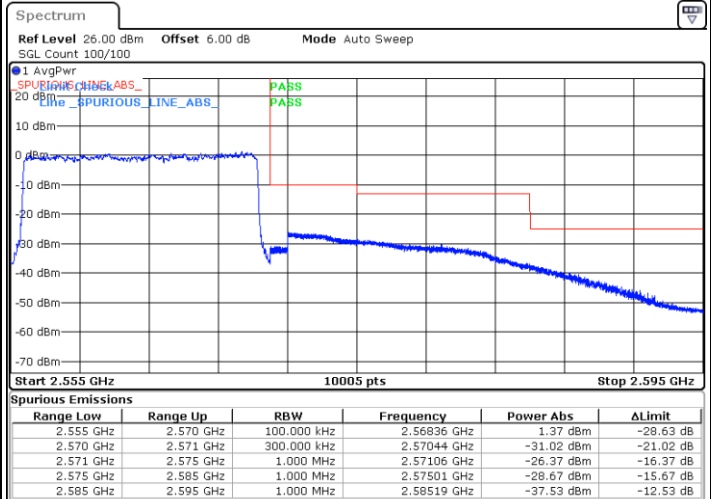
Date: 9.MAR.2023 13:25:17

Lowest Band Edge / Full RB



Date: 9.MAR.2023 13:13:38

Highest Band Edge / Full RB



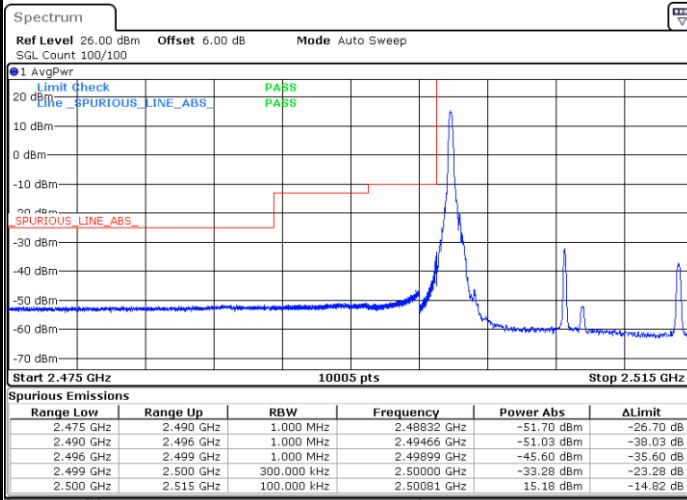
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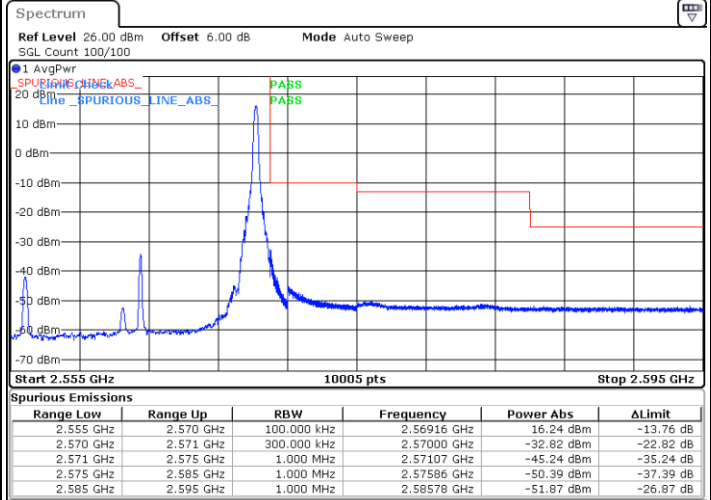
LTE Band 7 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



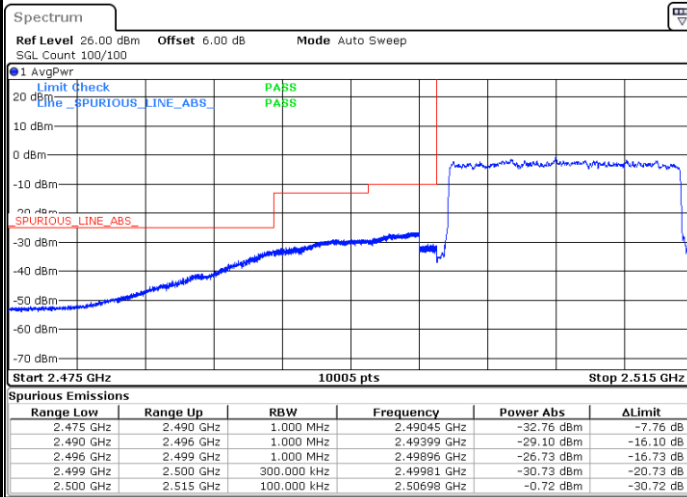
Date: 9.MAR.2023 13:12:48

Highest Band Edge / 1 RB



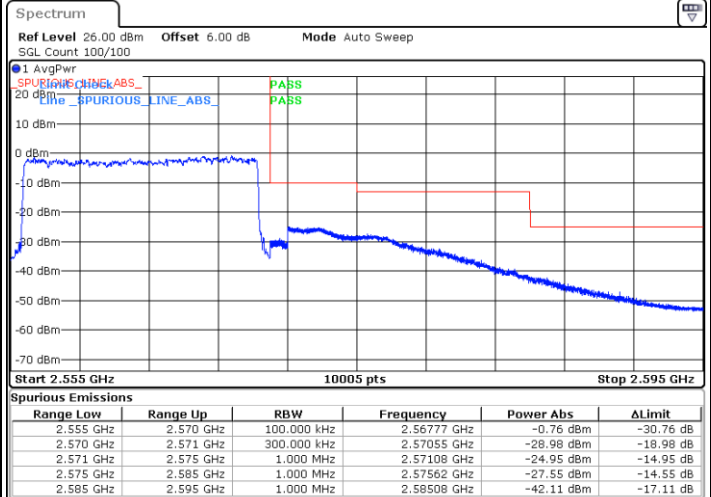
Date: 9.MAR.2023 13:24:54

Lowest Band Edge / Full RB



Date: 9.MAR.2023 13:13:17

Highest Band Edge / Full RB



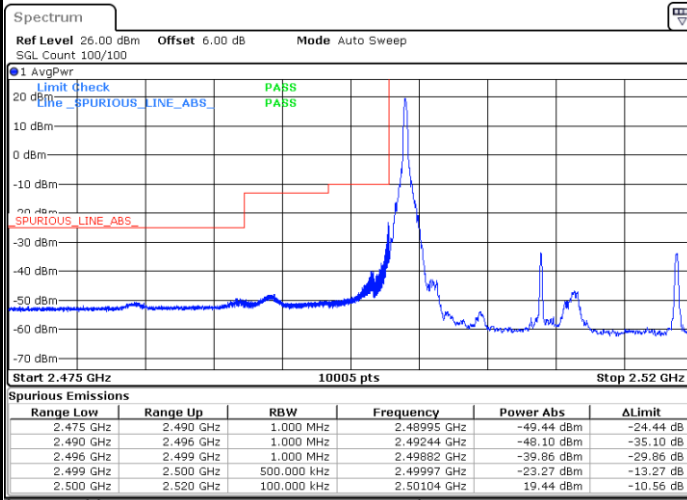
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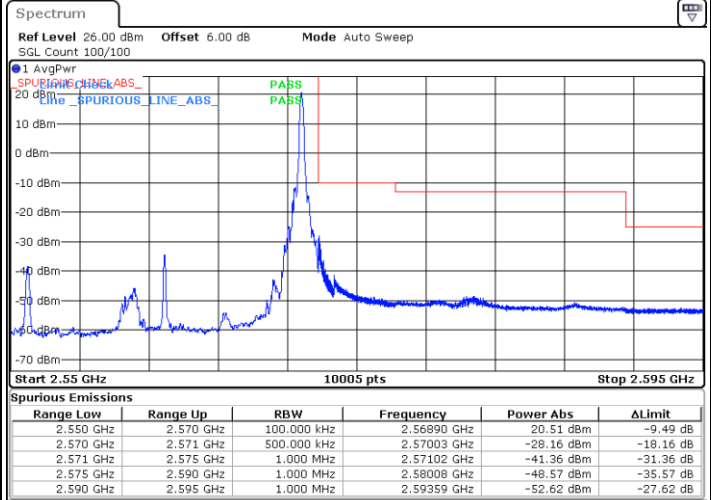
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



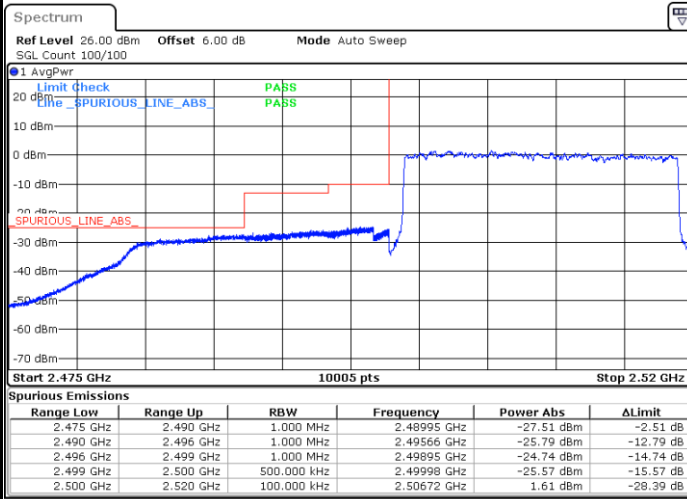
Date: 9.MAR.2023 13:26:59

Highest Band Edge / 1 RB



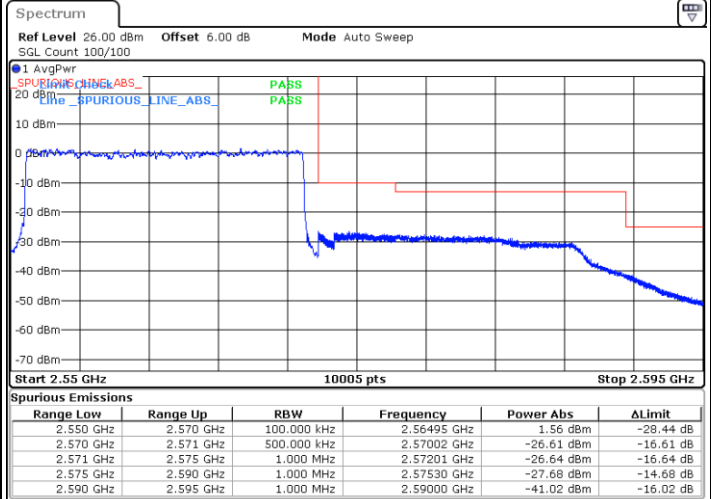
Date: 9.MAR.2023 13:39:09

Lowest Band Edge / Full RB



Date: 9.MAR.2023 13:29:25

Highest Band Edge / Full RB

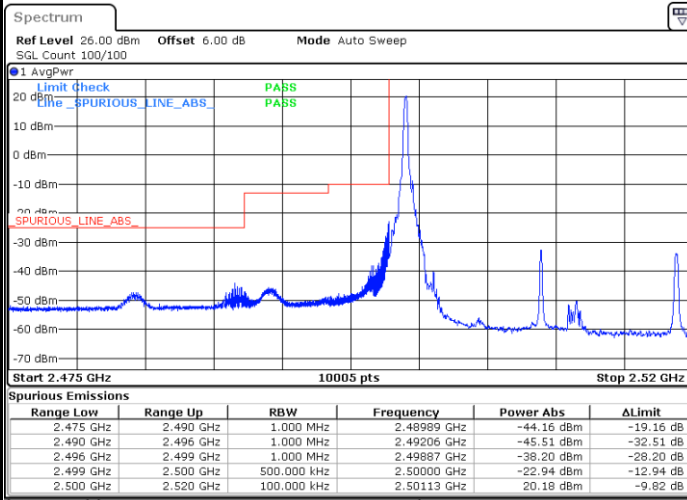


Date: 9.MAR.2023 13:35:48



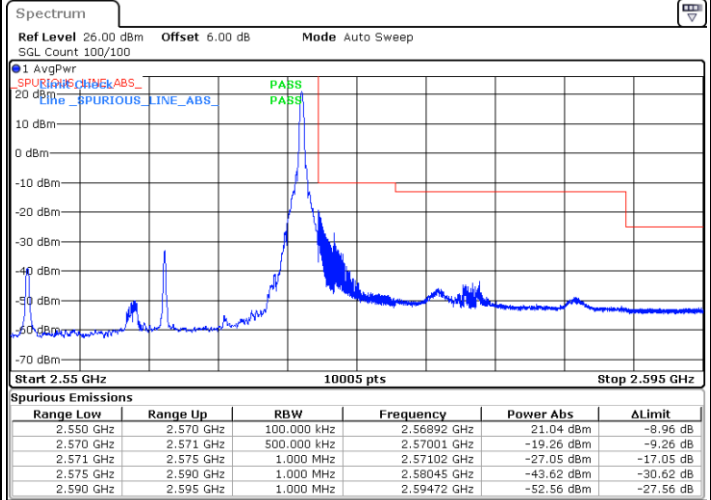
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



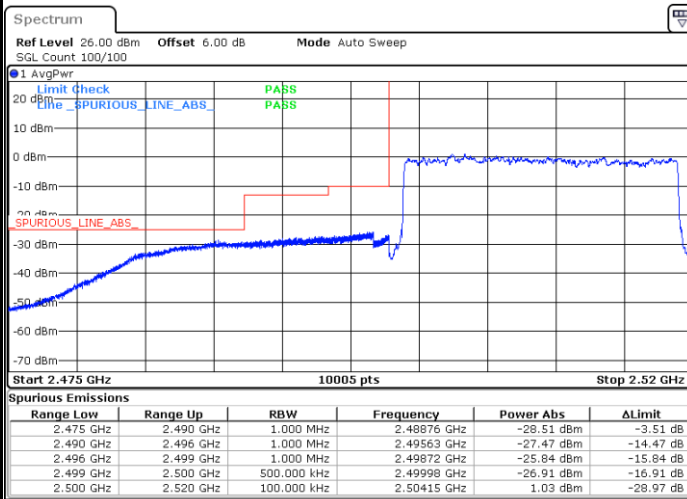
Date: 9.MAR.2023 13:27:18

Highest Band Edge / 1 RB



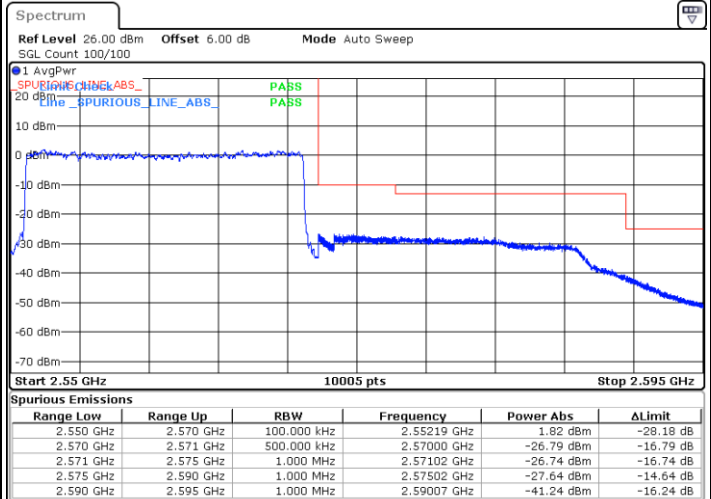
Date: 9.MAR.2023 13:38:36

Lowest Band Edge / Full RB



Date: 9.MAR.2023 13:29:05

Highest Band Edge / Full RB



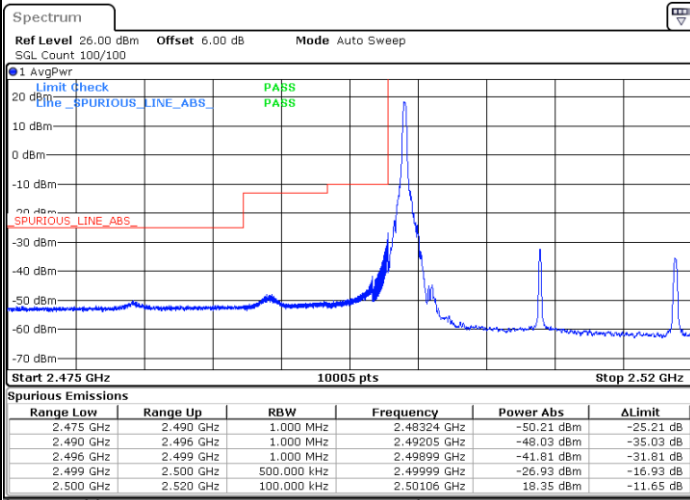
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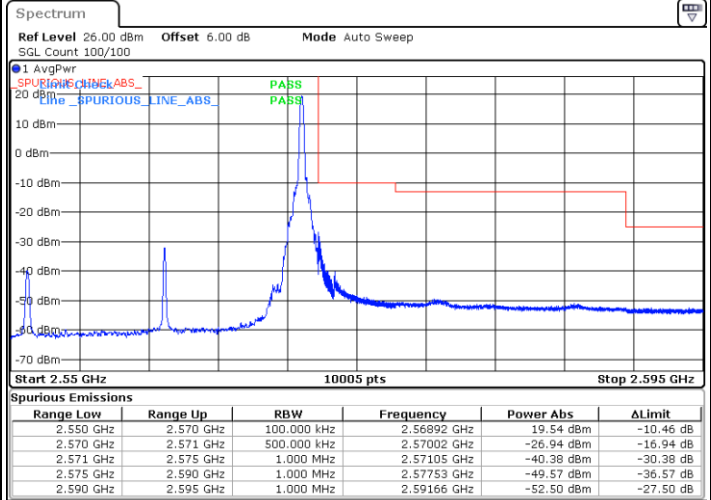
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



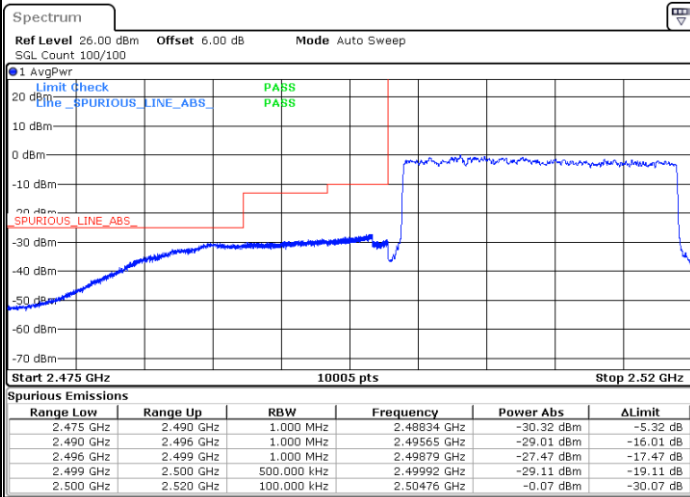
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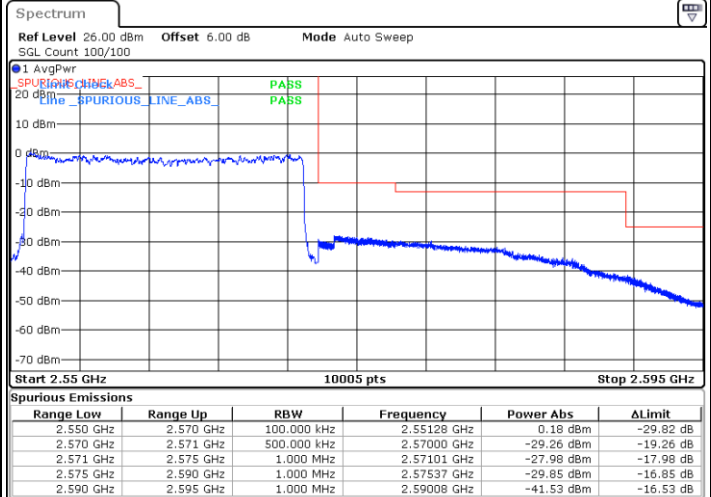
Date: 9.MAR.2023 13:38:15

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.MAR.2023 13:28:45



Date: 9.MAR.2023 13:36:32