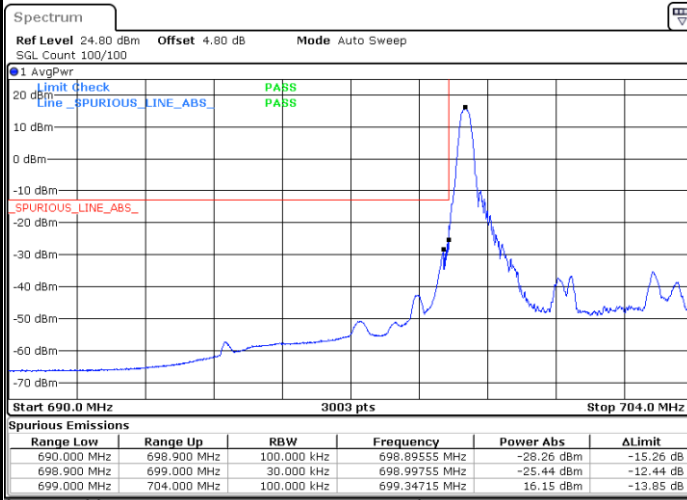




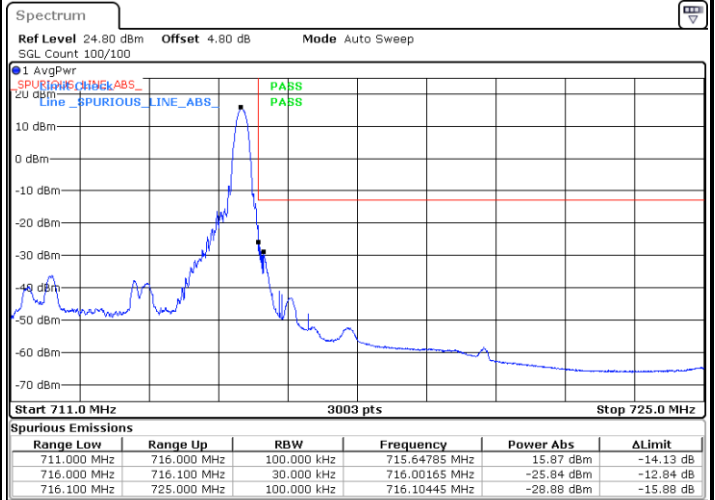
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



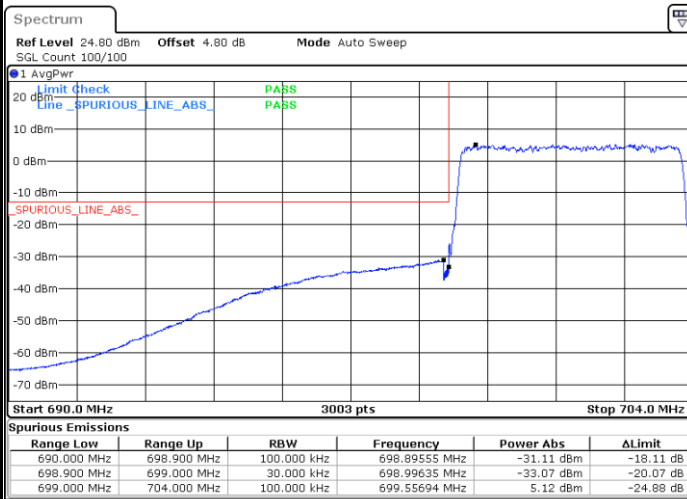
Date: 21.MAR.2025 10:11:57

Highest Band Edge / 1 RB



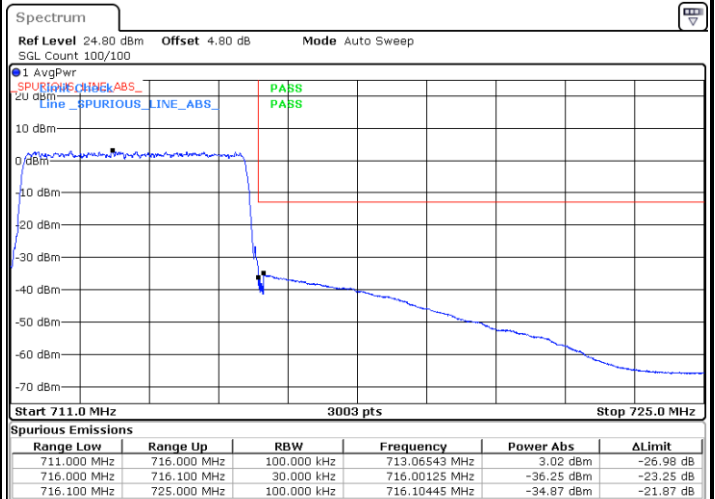
Date: 21.MAR.2025 10:33:26

Lowest Band Edge / Full RB



Date: 21.MAR.2025 10:21:49

Highest Band Edge / Full RB



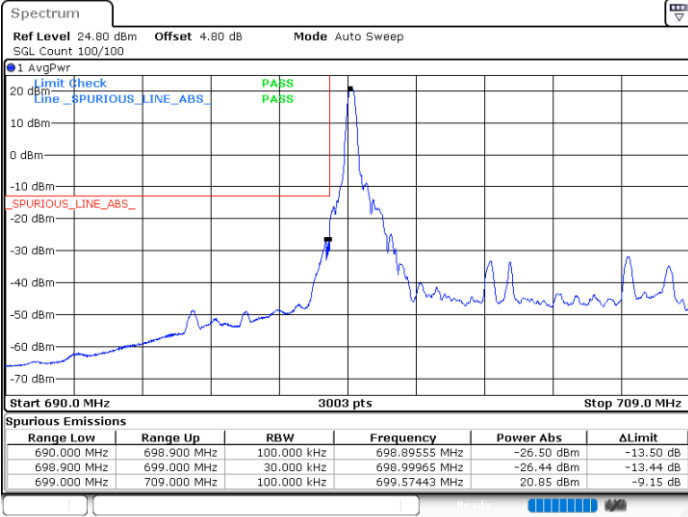
Date: 21.MAR.2025 10:34:51



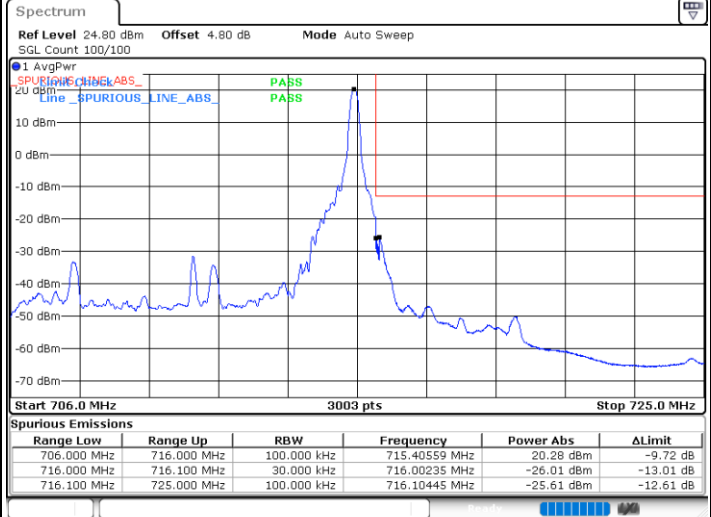
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



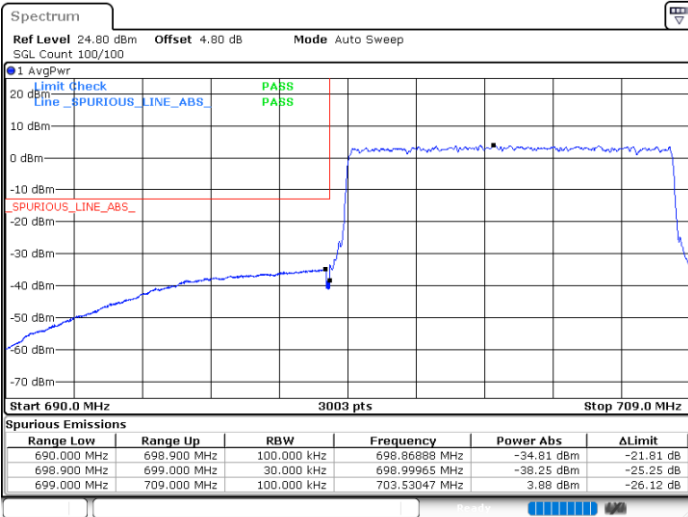
Date: 21.MAR.2025 10:39:19



Date: 21.MAR.2025 10:48:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.MAR.2025 10:44:42

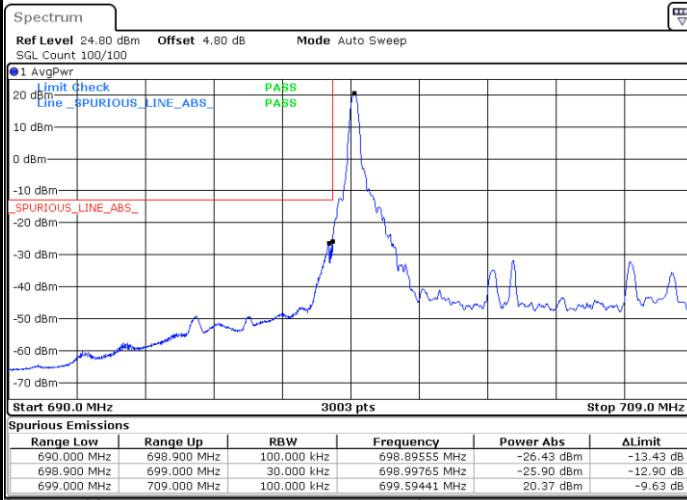


Date: 21.MAR.2025 10:53:29



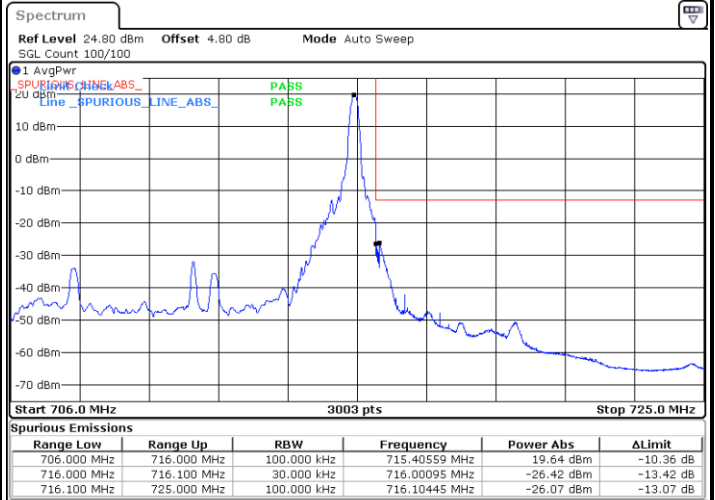
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



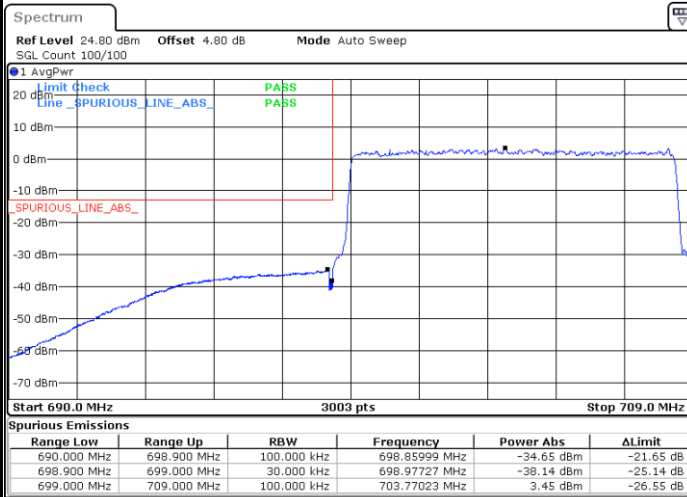
Date: 21.MAR.2025 10:40:07

Highest Band Edge / 1 RB



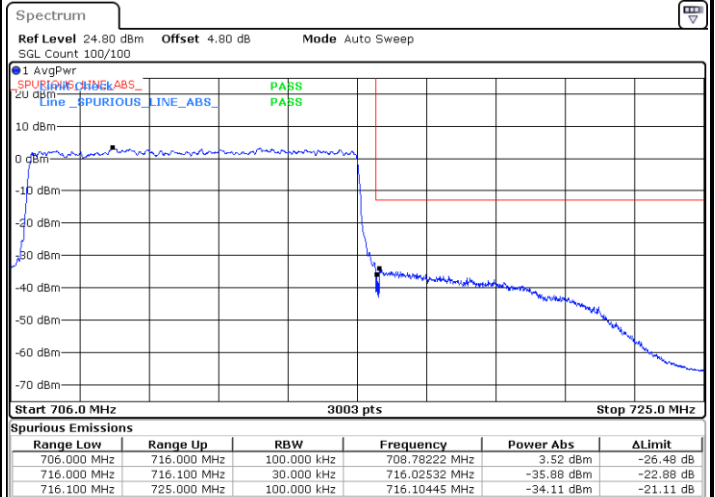
Date: 21.MAR.2025 10:48:58

Lowest Band Edge / Full RB



Date: 21.MAR.2025 10:43:57

Highest Band Edge / Full RB

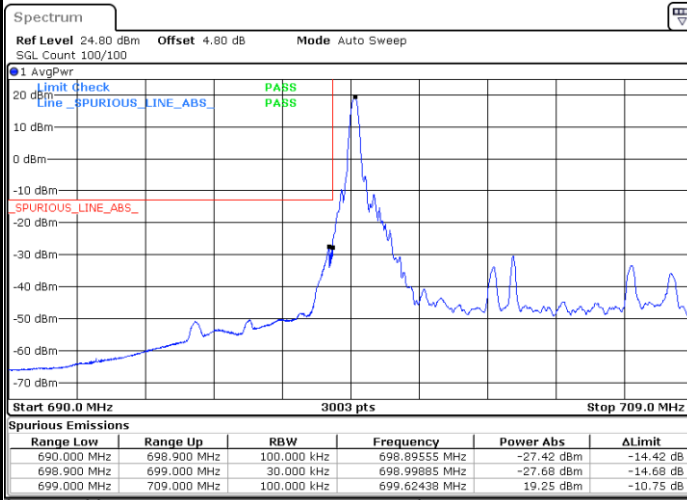


Date: 21.MAR.2025 10:52:43



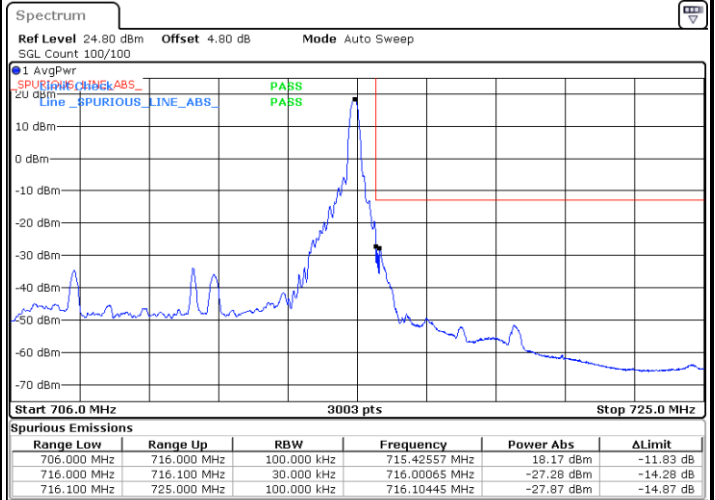
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



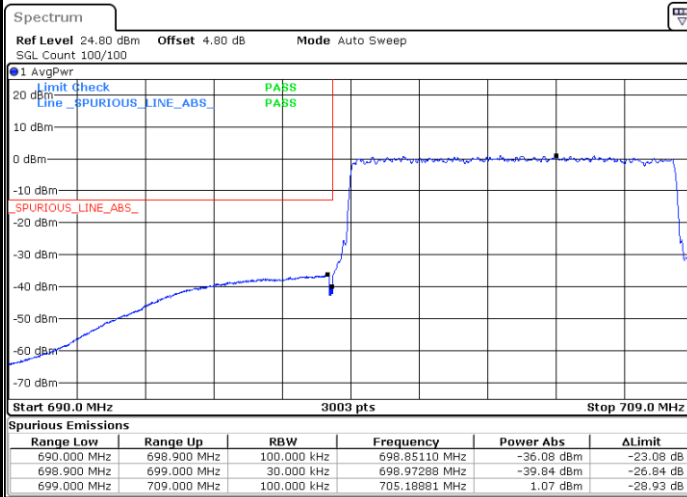
Date: 21.MAR.2025 10:40:52

Highest Band Edge / 1 RB



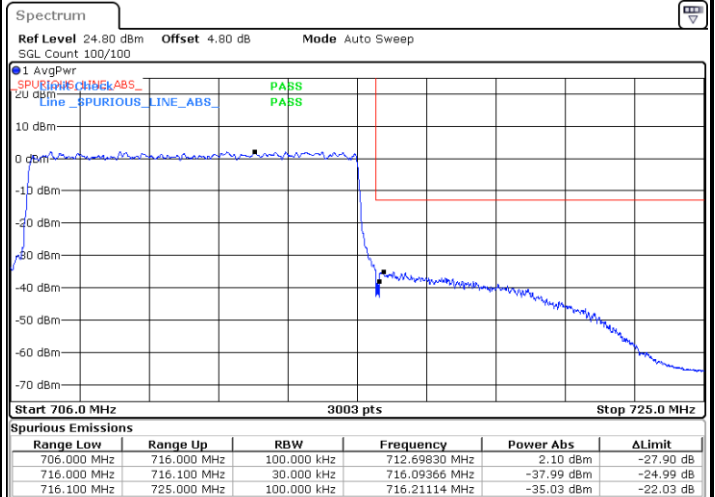
Date: 21.MAR.2025 10:49:43

Lowest Band Edge / Full RB



Date: 21.MAR.2025 10:43:12

Highest Band Edge / Full RB

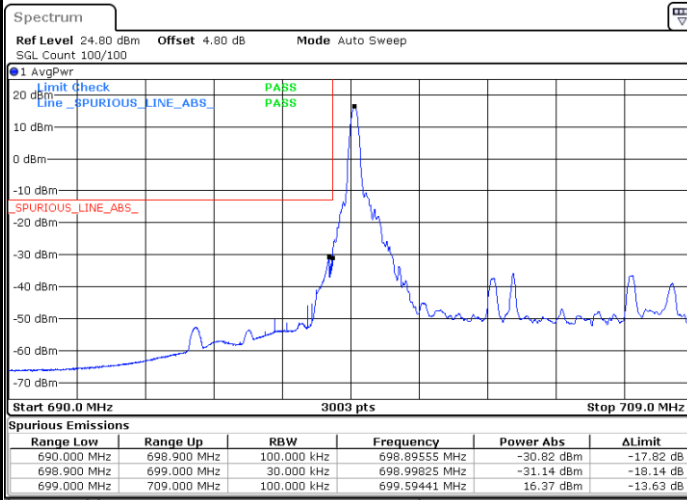


Date: 21.MAR.2025 10:51:59



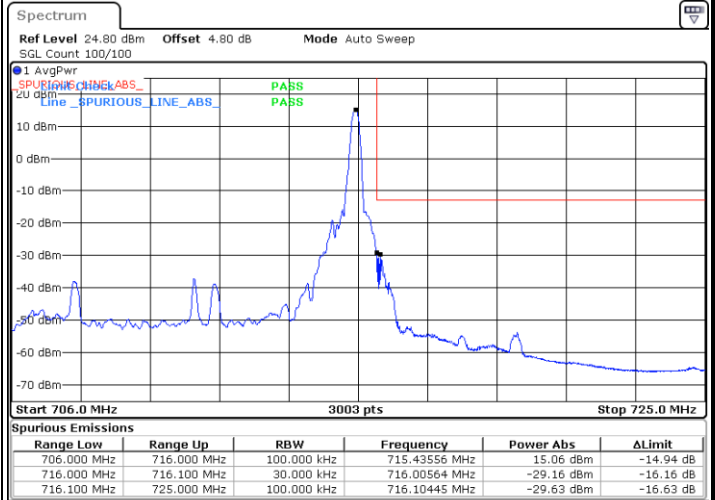
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



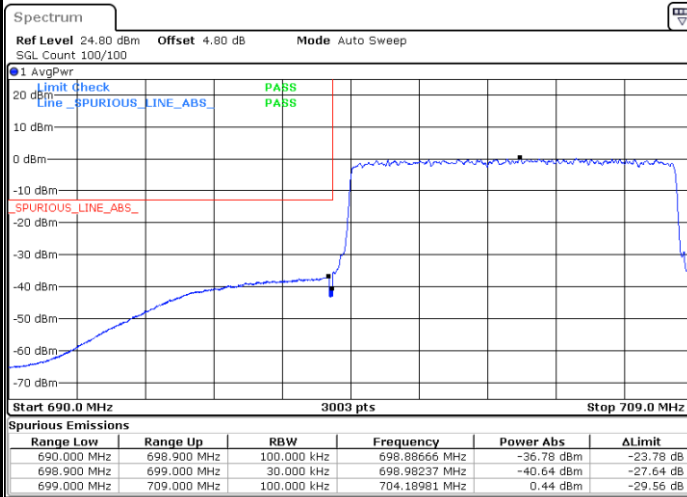
Date: 21.MAR.2025 10:41:37

Highest Band Edge / 1 RB



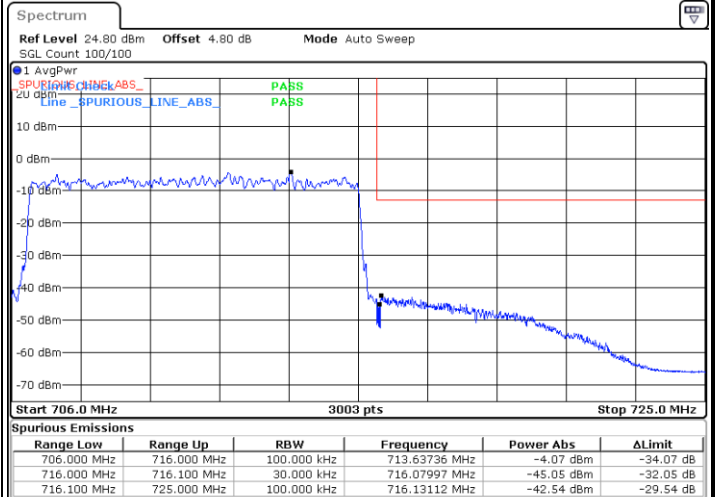
Date: 21.MAR.2025 10:50:28

Lowest Band Edge / Full RB



Date: 21.MAR.2025 10:42:26

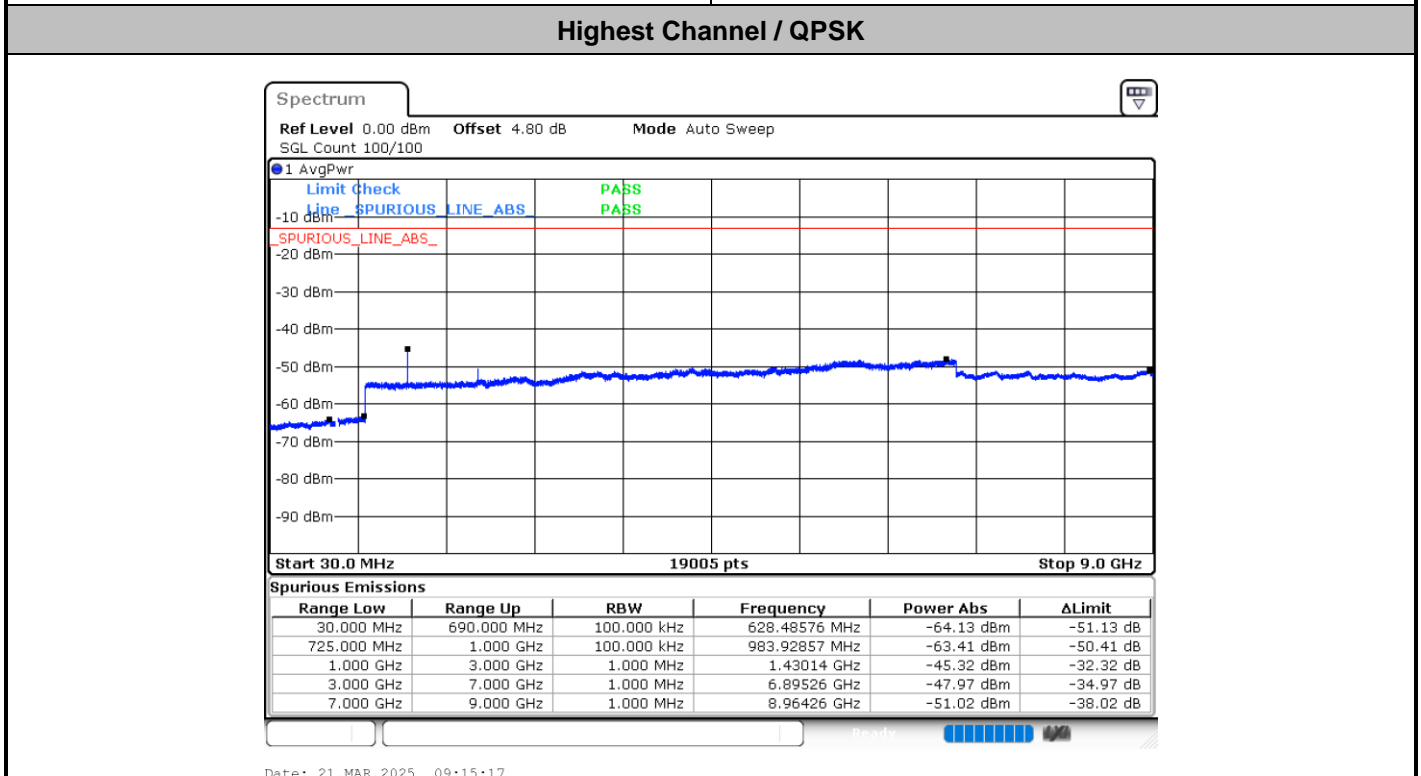
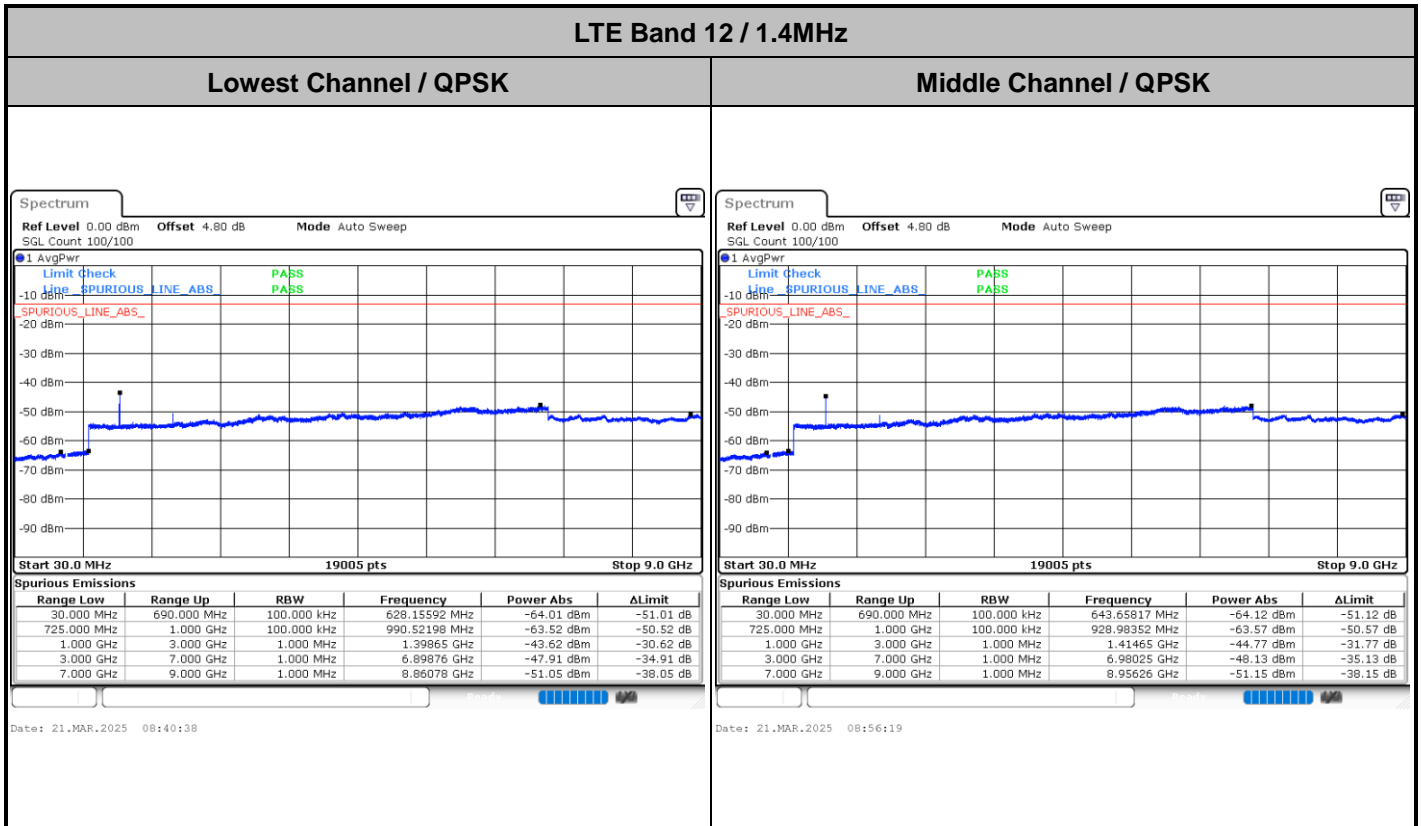
Highest Band Edge / Full RB



Date: 21.MAR.2025 10:51:14



# Conducted Spurious Emission

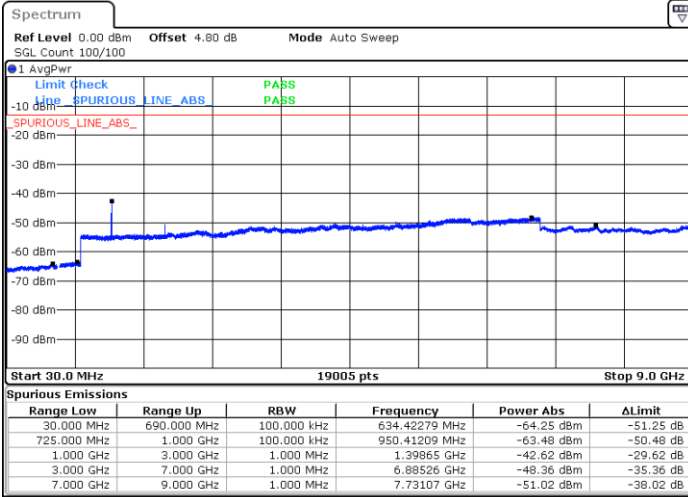




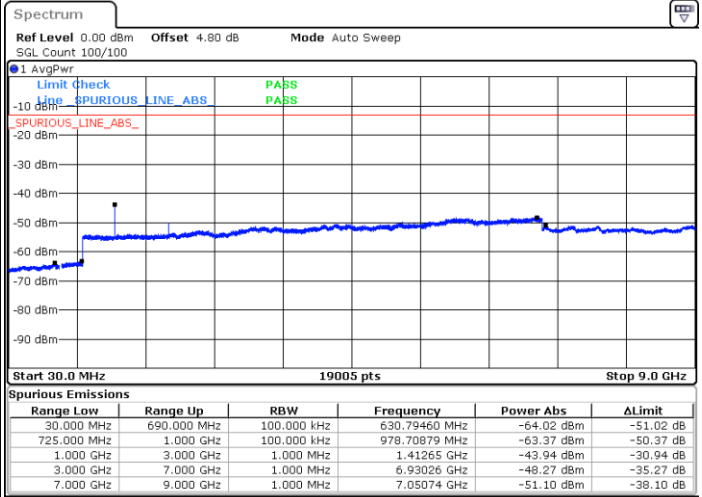
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

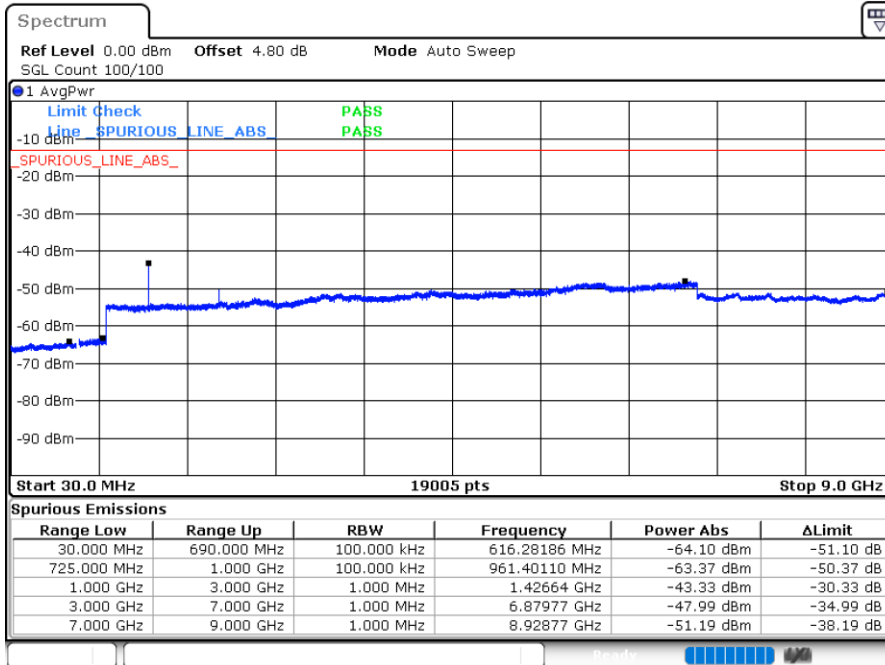


Date: 21.MAR.2025 09:33:07



Date: 21.MAR.2025 09:45:55

Highest Channel / QPSK



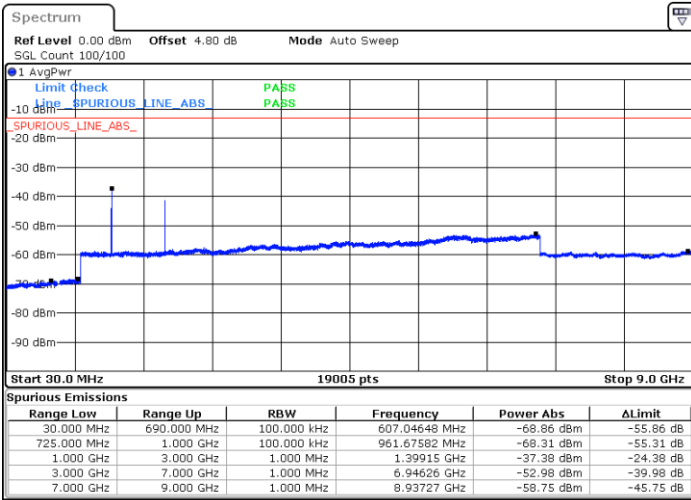
Date: 21.MAR.2025 09:49:59



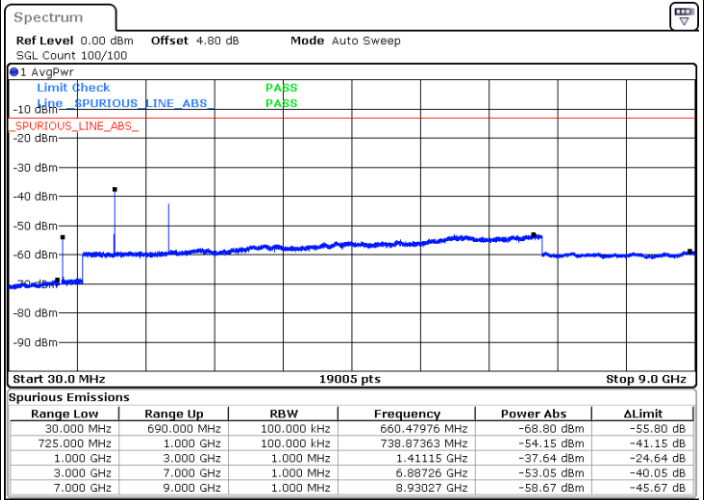
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

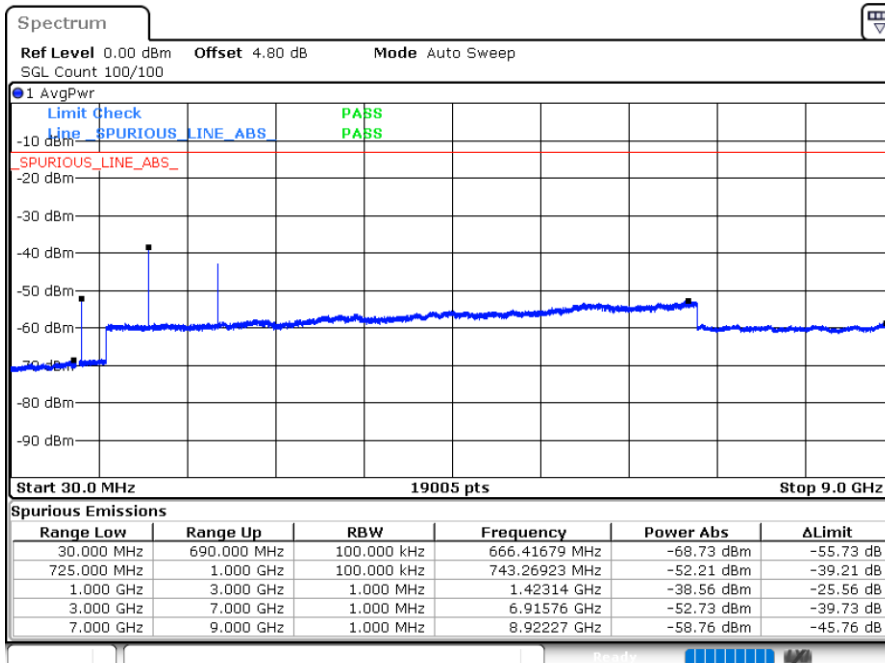


Date: 21.MAR.2025 10:06:11



Date: 21.MAR.2025 10:26:40

Highest Channel / QPSK



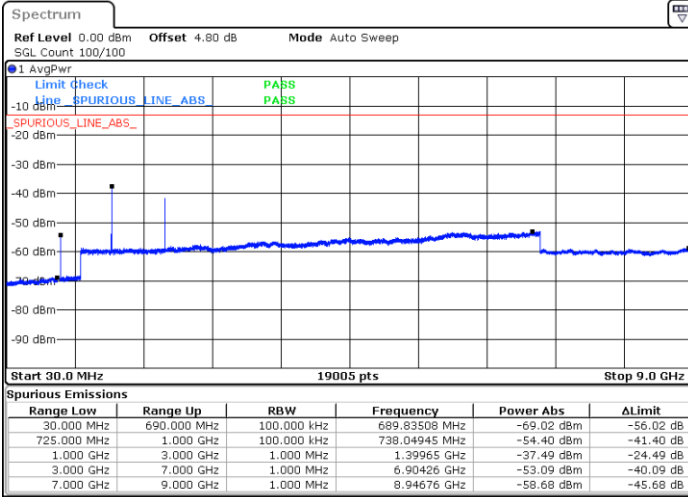
Date: 21.MAR.2025 10:29:49



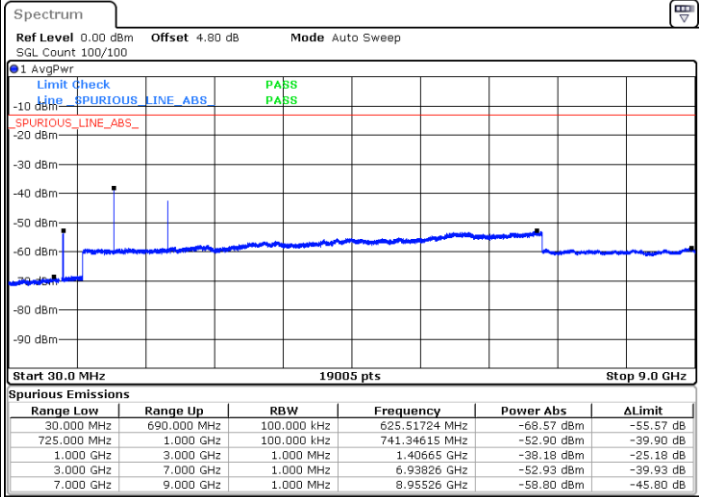
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

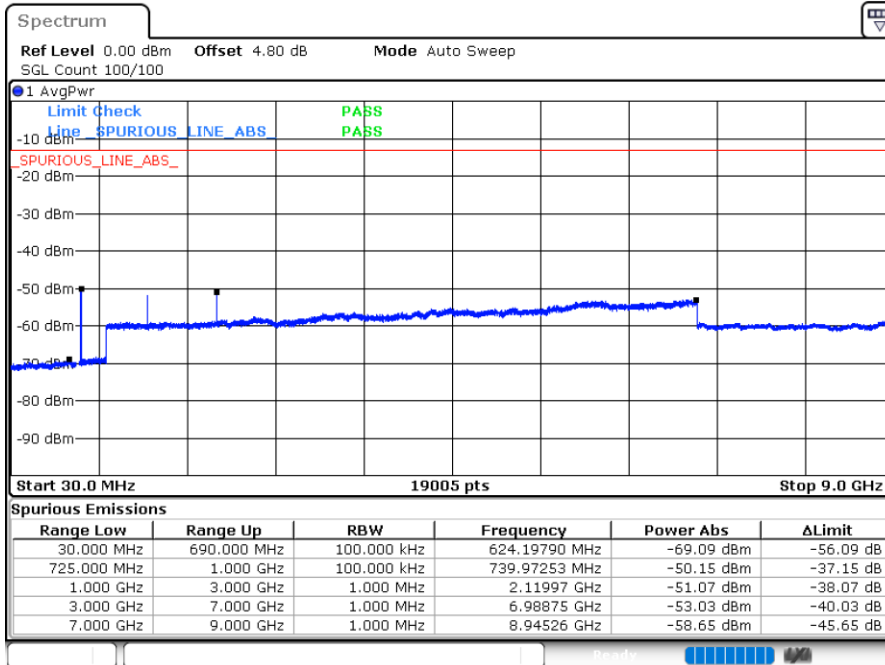


Date: 21.MAR.2025 10:38:31



Date: 21.MAR.2025 10:46:02

Highest Channel / QPSK



Date: 21.MAR.2025 10:47:21



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	0.0027	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0019	

Note:

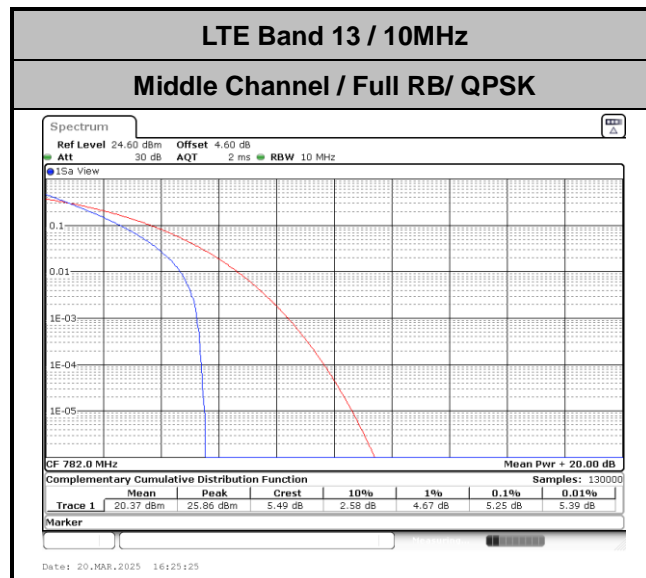
1. Normal Voltage =3.81 V.; Battery End Point (BEP) =3.4 V.; Maximum Voltage =4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

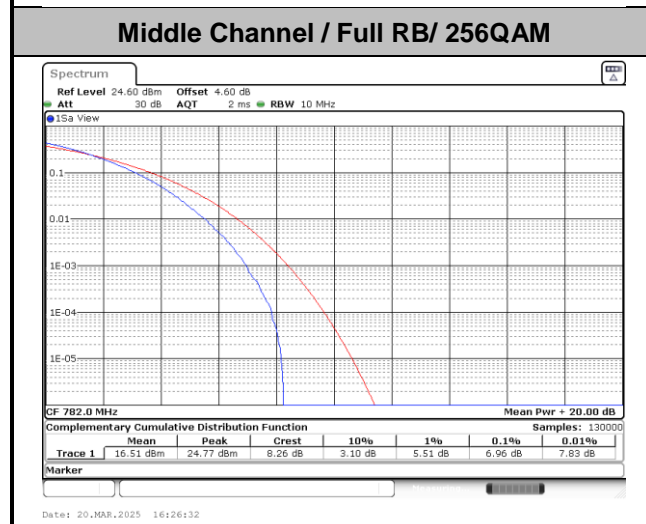
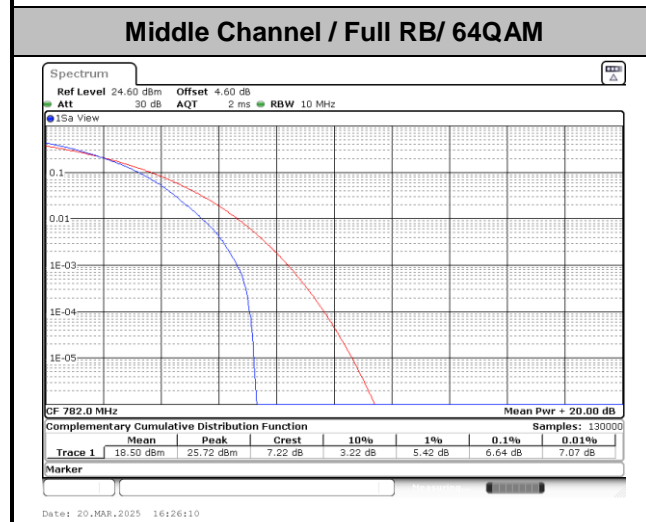
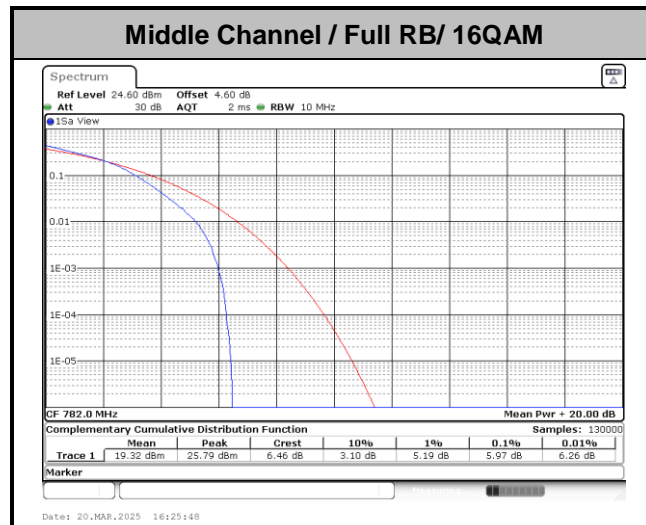


# LTE Band 13

## Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.25	5.97	6.64	6.96	PASS

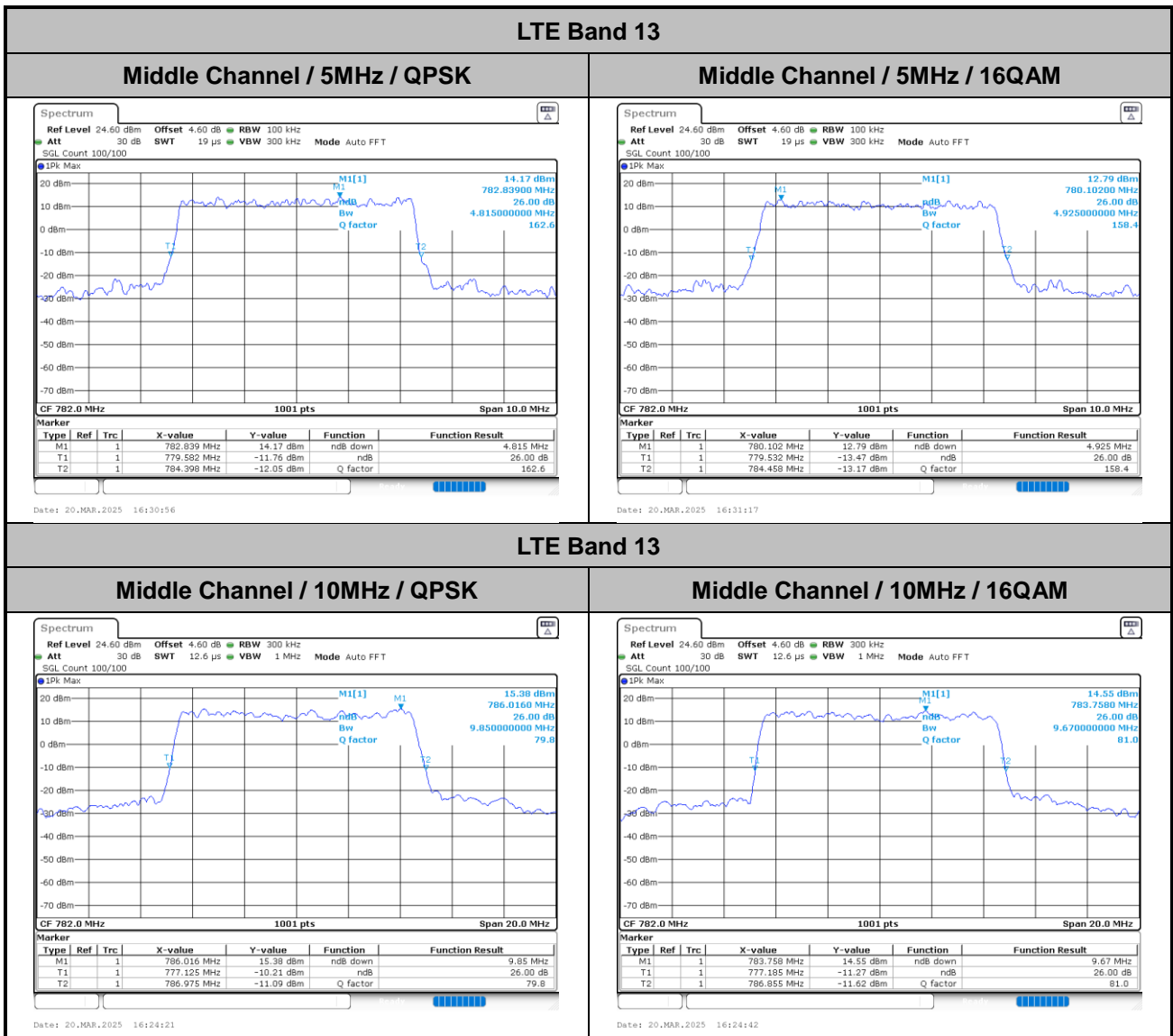






## 26dB Bandwidth

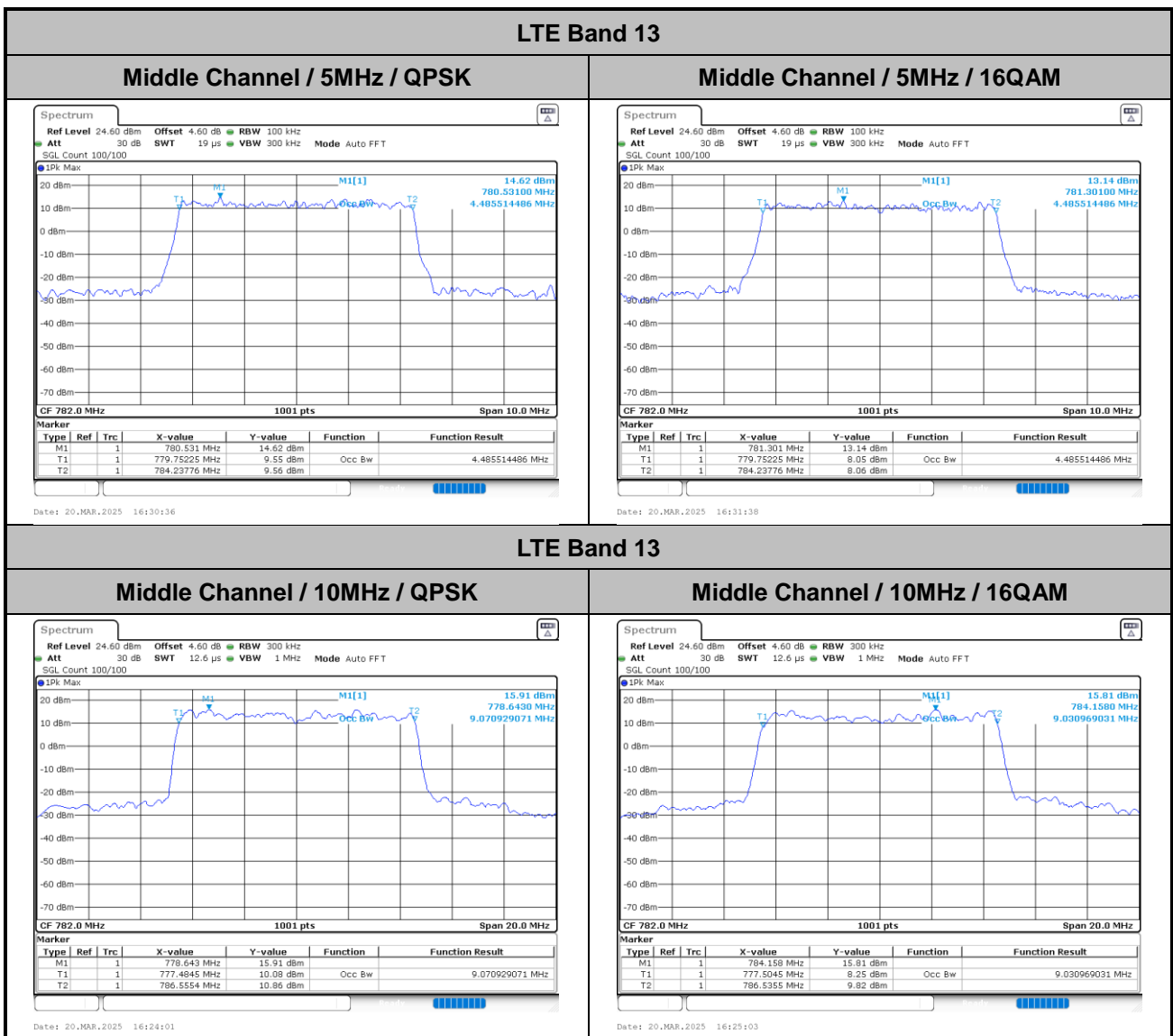
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.82	4.93
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.85	9.67





# Occupied Bandwidth

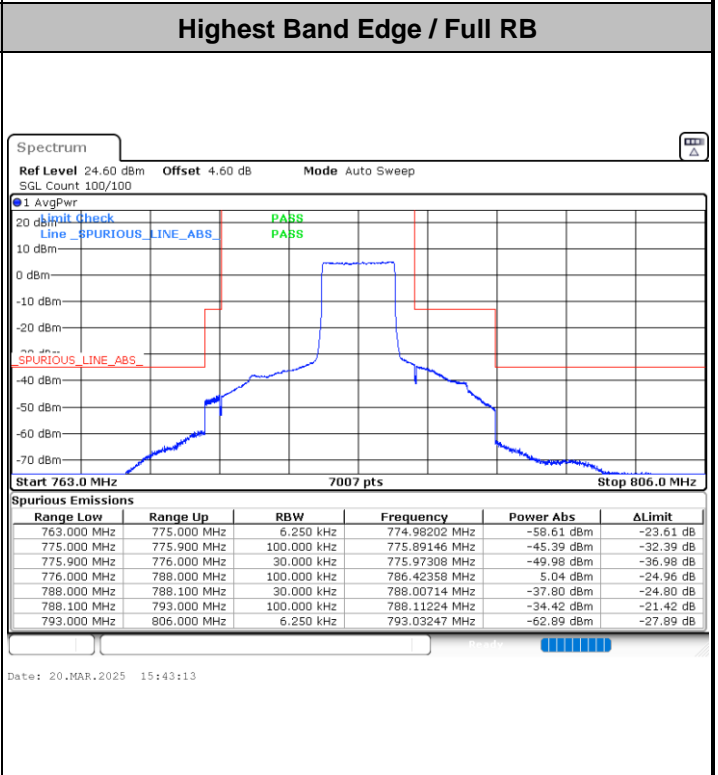
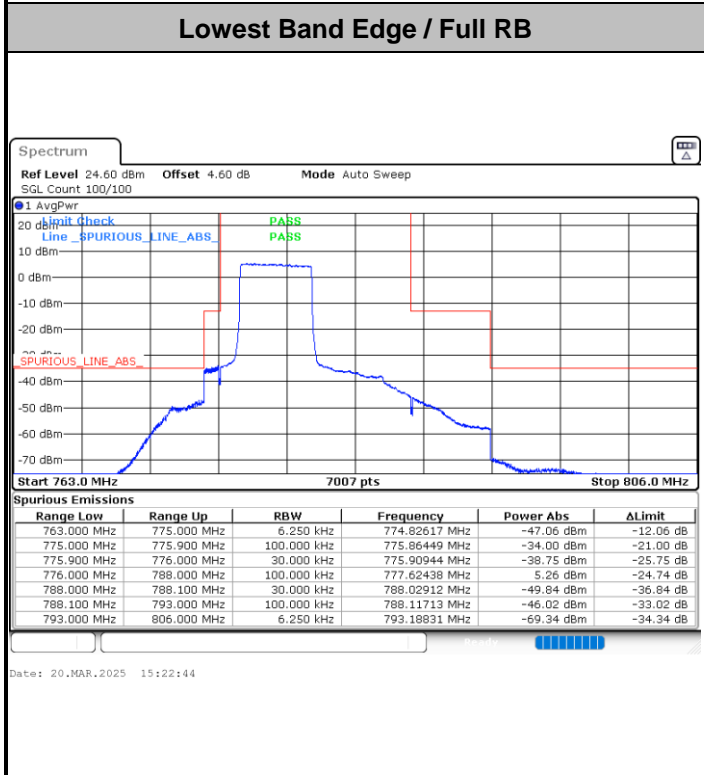
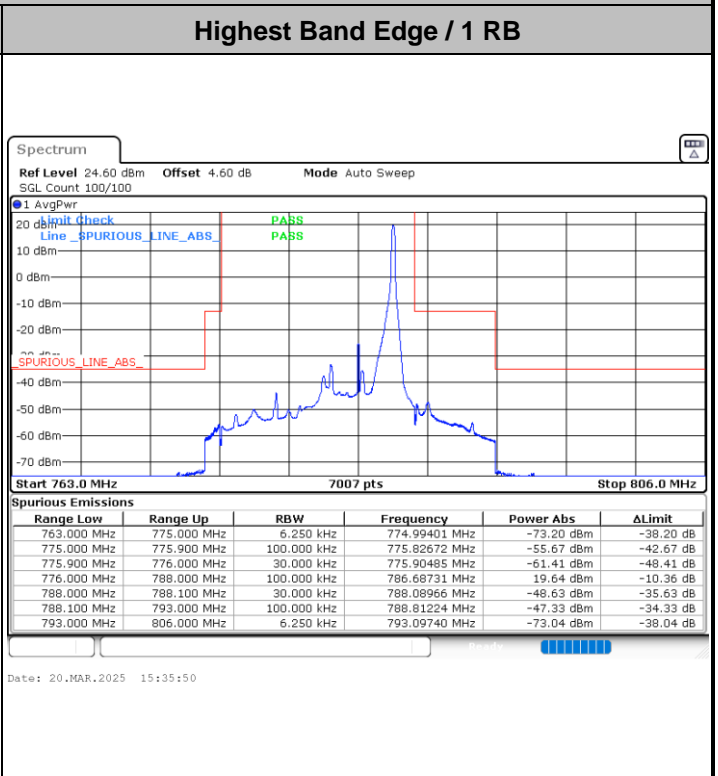
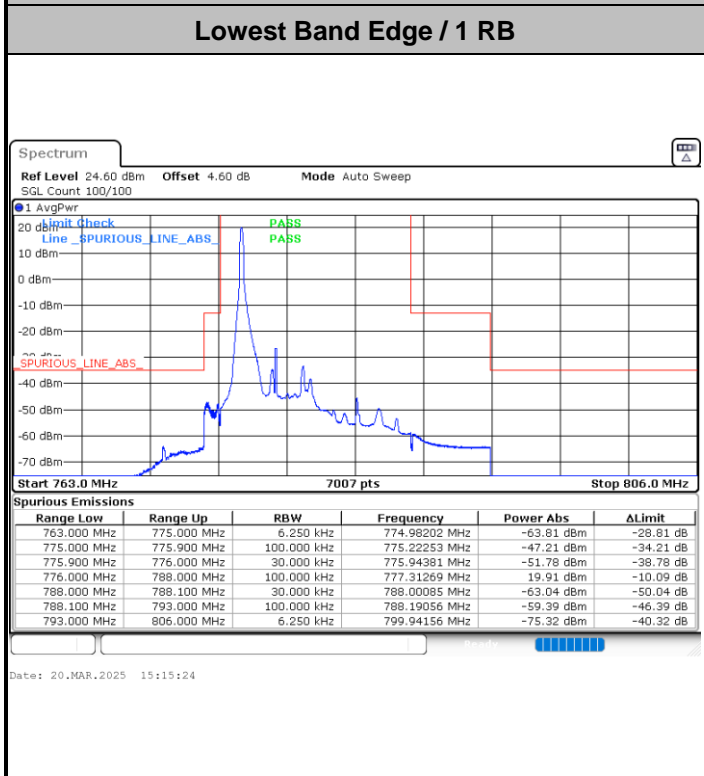
Mode	LTE Band 13 : 99%OBW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	<b>4.49</b>	<b>4.49</b>
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	<b>9.07</b>	<b>9.03</b>





# Conducted Band Edge

## LTE Band 13 / 5MHz / QPSK

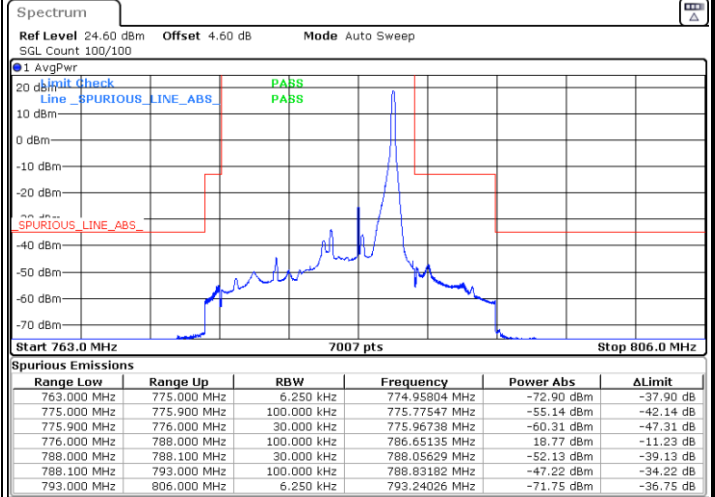
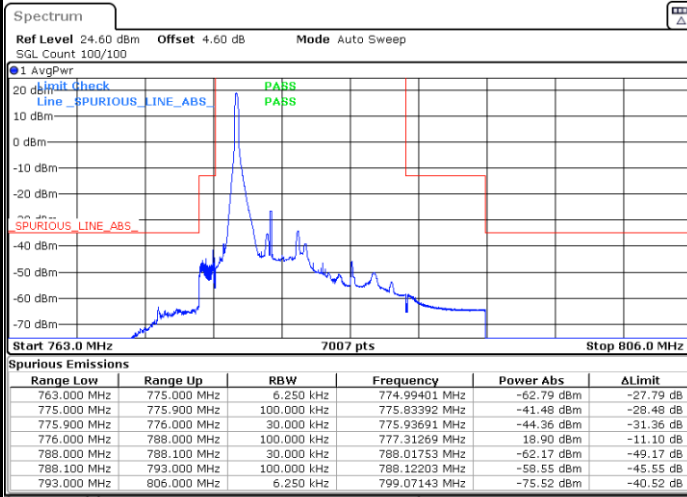




LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

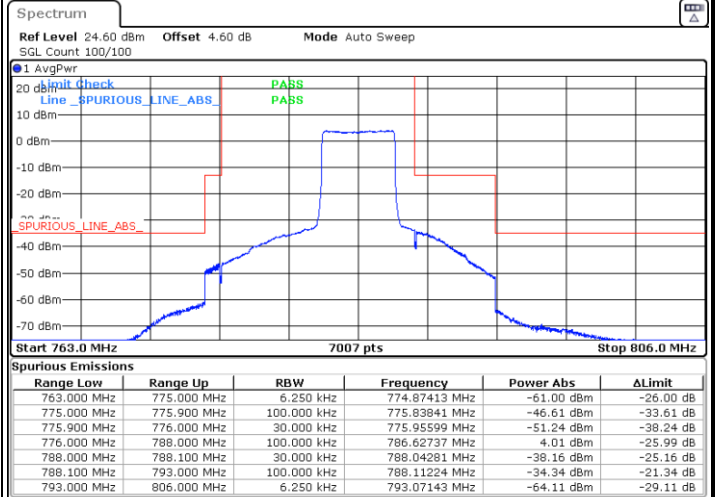
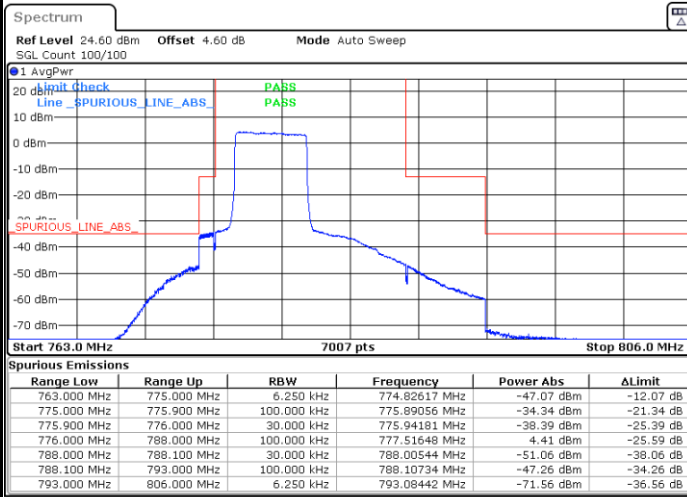


Date: 20.MAR.2025 15:17:14

Date: 20.MAR.2025 15:37:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



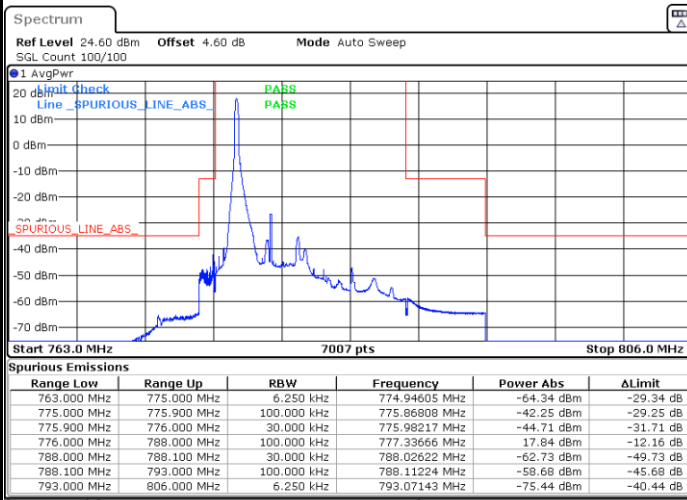
Date: 20.MAR.2025 15:24:34

Date: 20.MAR.2025 15:45:03



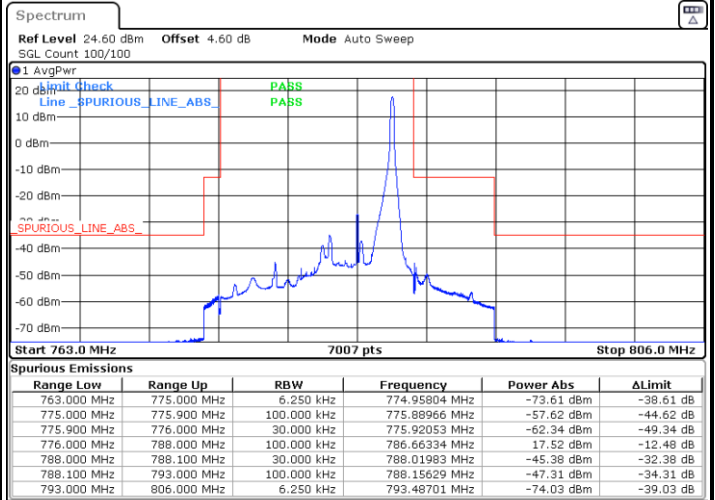
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



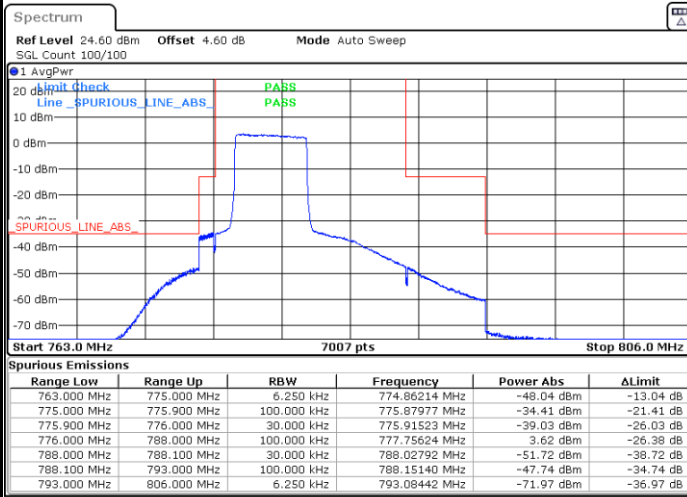
Date: 20.MAR.2025 15:19:04

Highest Band Edge / 1 RB



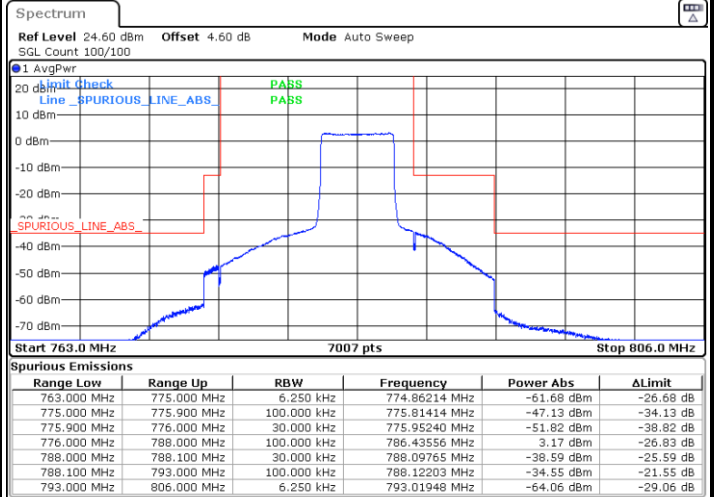
Date: 20.MAR.2025 15:39:33

Lowest Band Edge / Full RB



Date: 20.MAR.2025 15:26:25

Highest Band Edge / Full RB



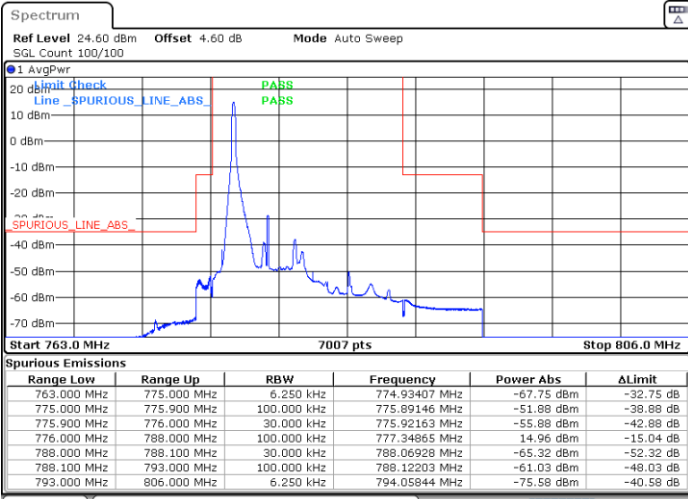
Date: 20.MAR.2025 15:46:53



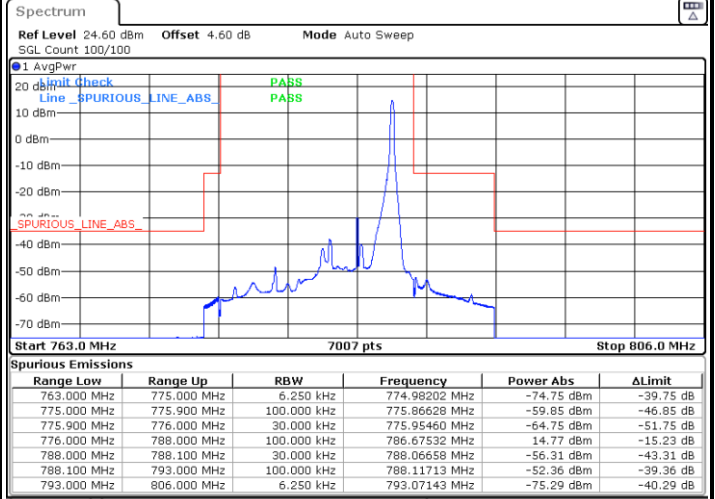
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



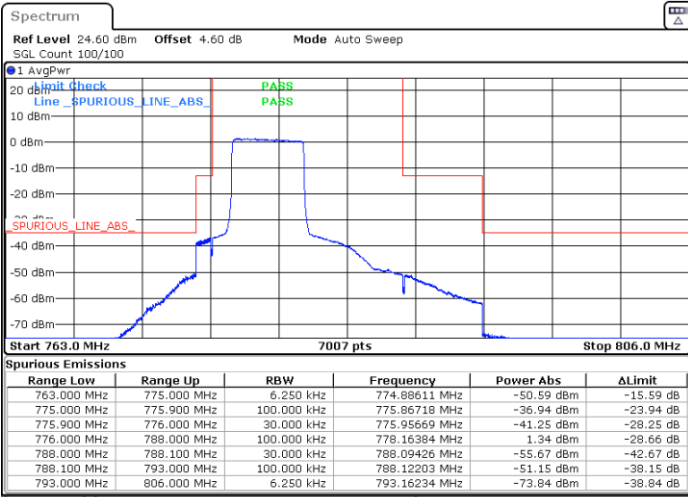
Date: 20.MAR.2025 15:20:54



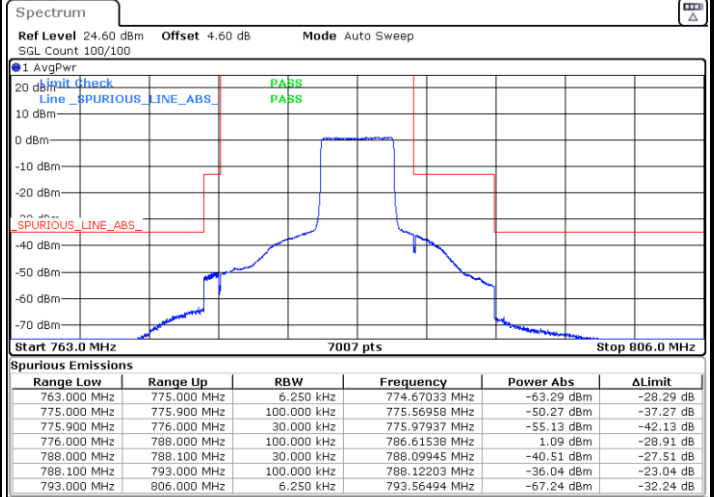
Date: 20.MAR.2025 15:41:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 20.MAR.2025 15:28:15



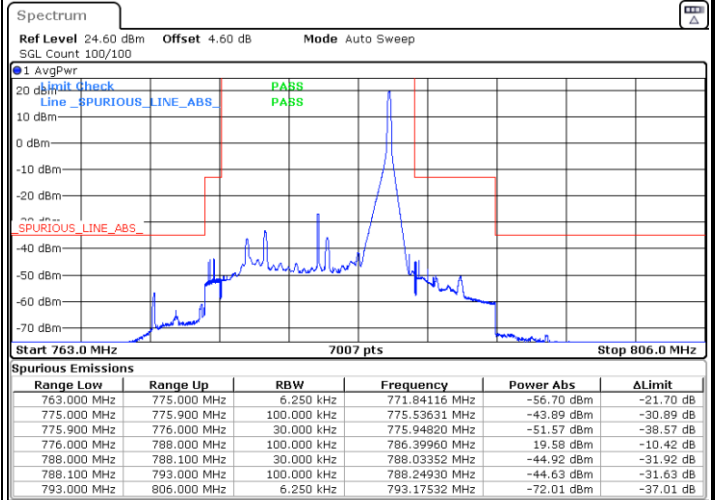
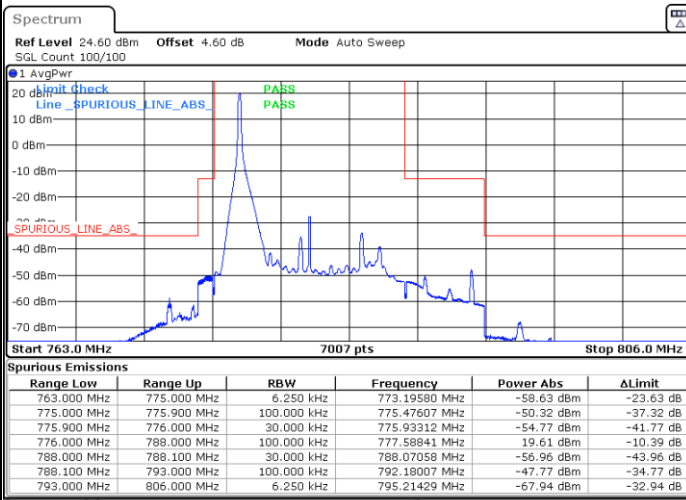
Date: 20.MAR.2025 15:48:43



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

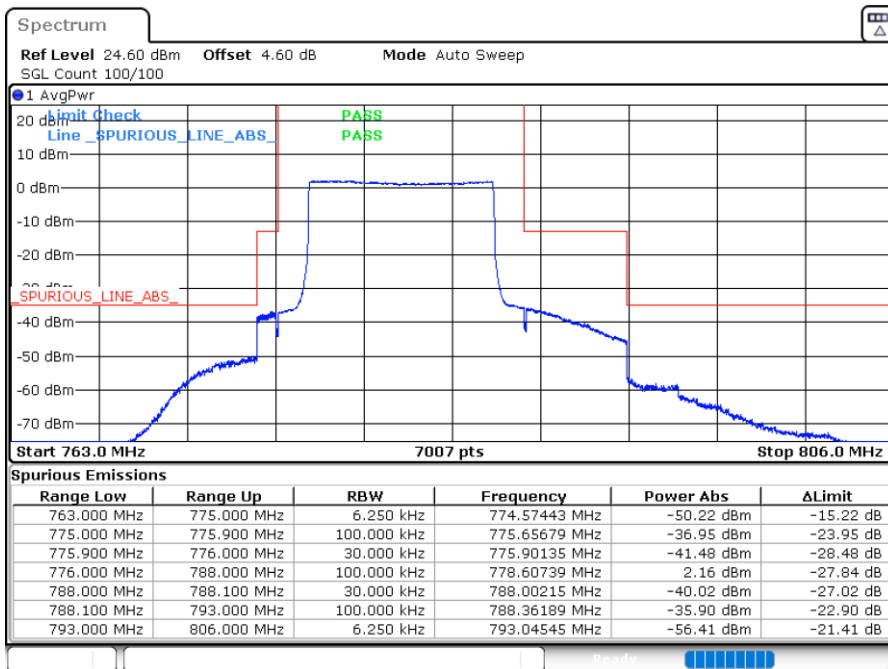
middle Band Edge / 1 RB



Date: 20.MAR.2025 16:03:36

Date: 20.MAR.2025 16:18:11

Middle Band Edge / Full RB

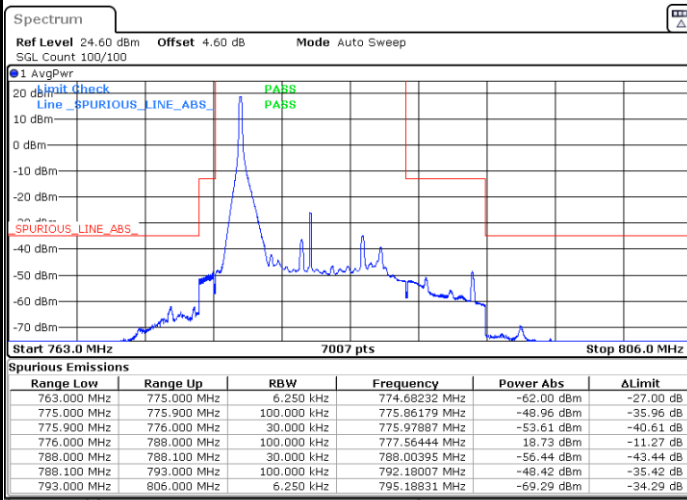


Date: 20.MAR.2025 16:10:53



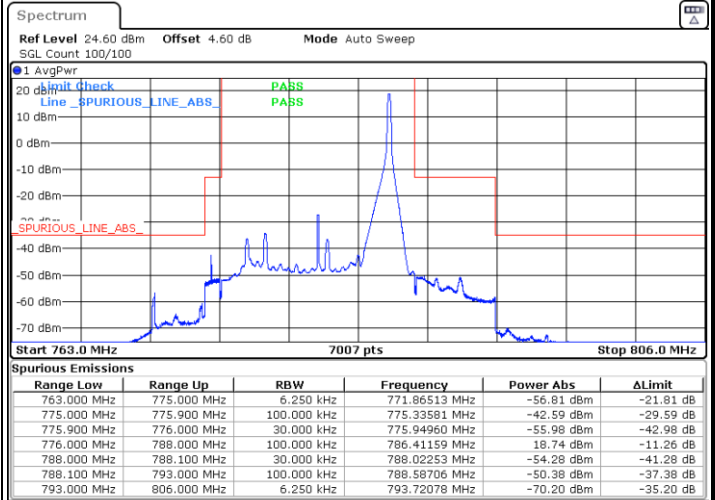
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



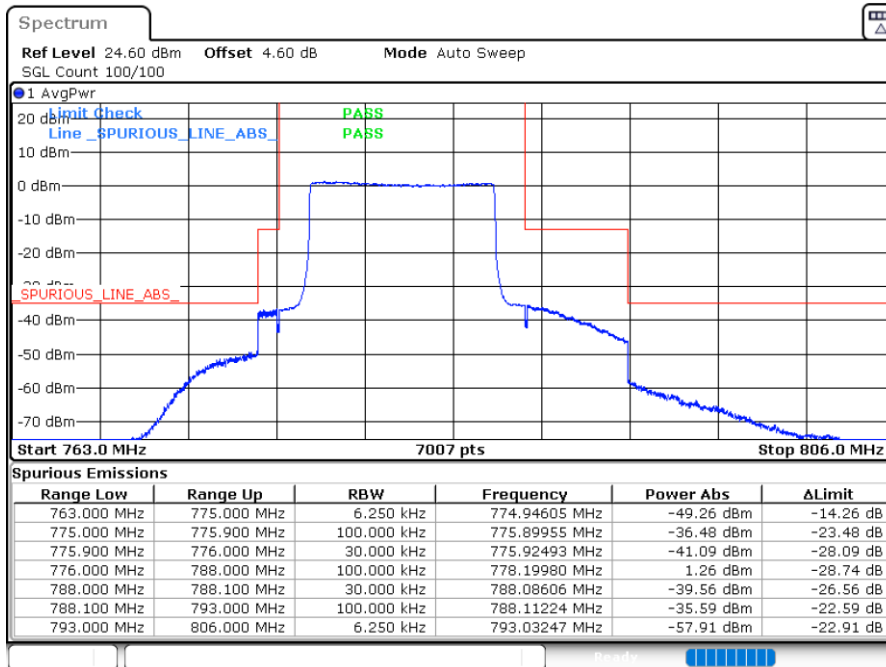
Date: 20.MAR.2025 16:05:25

middle Band Edge / 1 RB



Date: 20.MAR.2025 16:20:00

middle Band Edge / Full RB

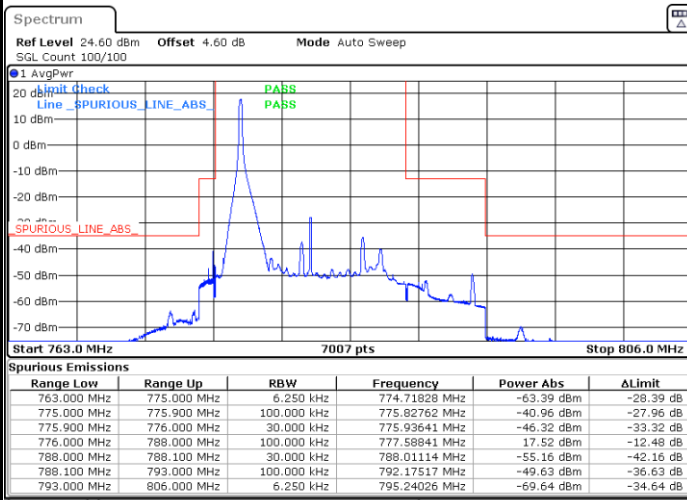


Date: 20.MAR.2025 16:12:42



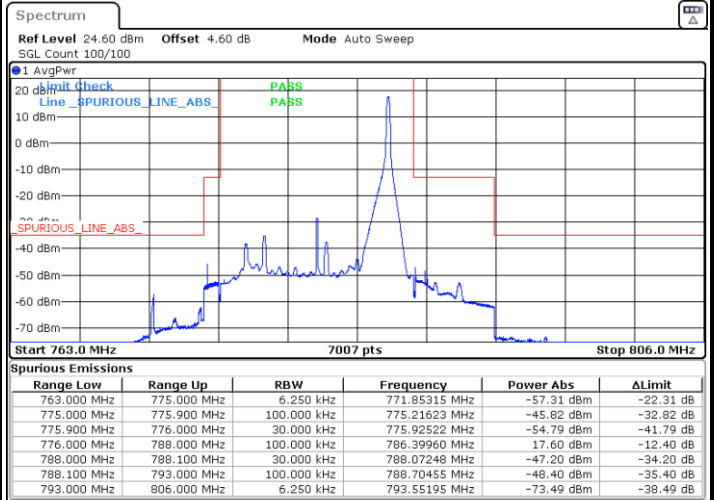
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



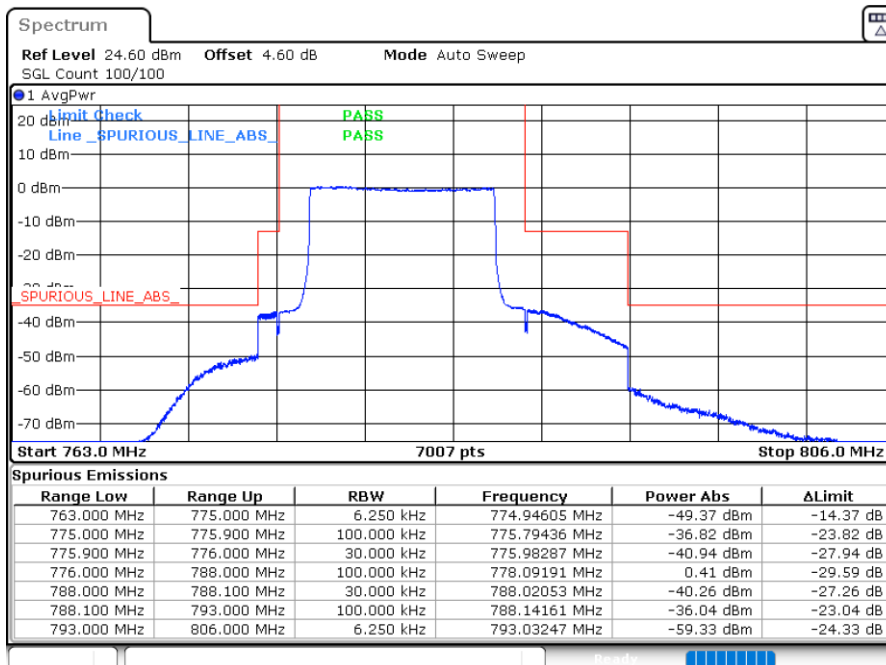
Date: 20.MAR.2025 16:07:14

middle Band Edge / 1 RB



Date: 20.MAR.2025 16:21:49

middle Band Edge / Full RB



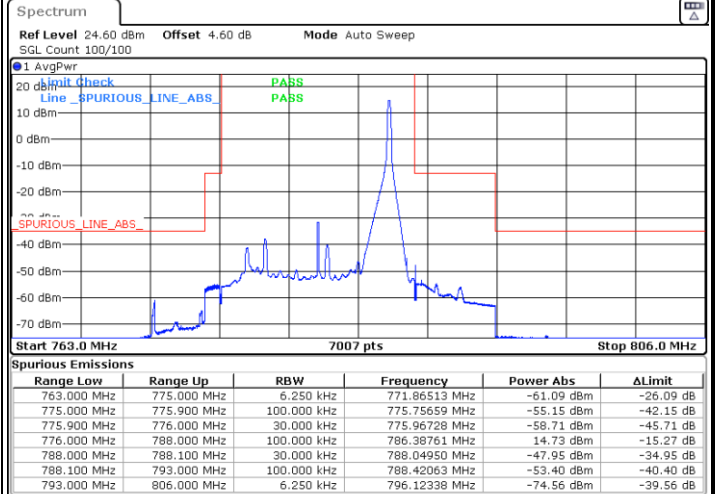
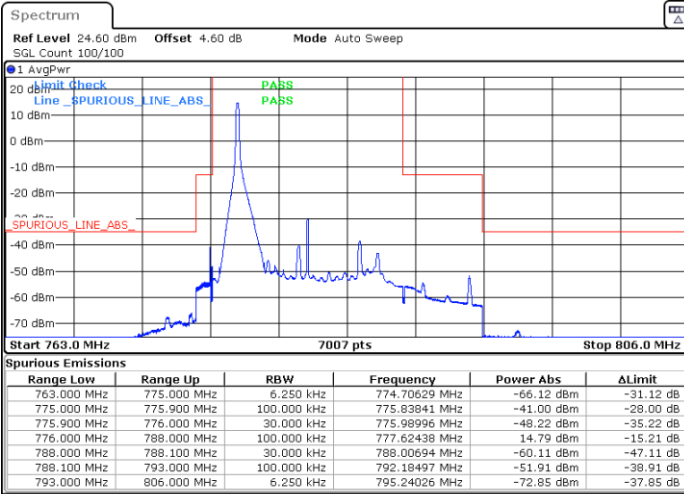
Date: 20.MAR.2025 16:14:32



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

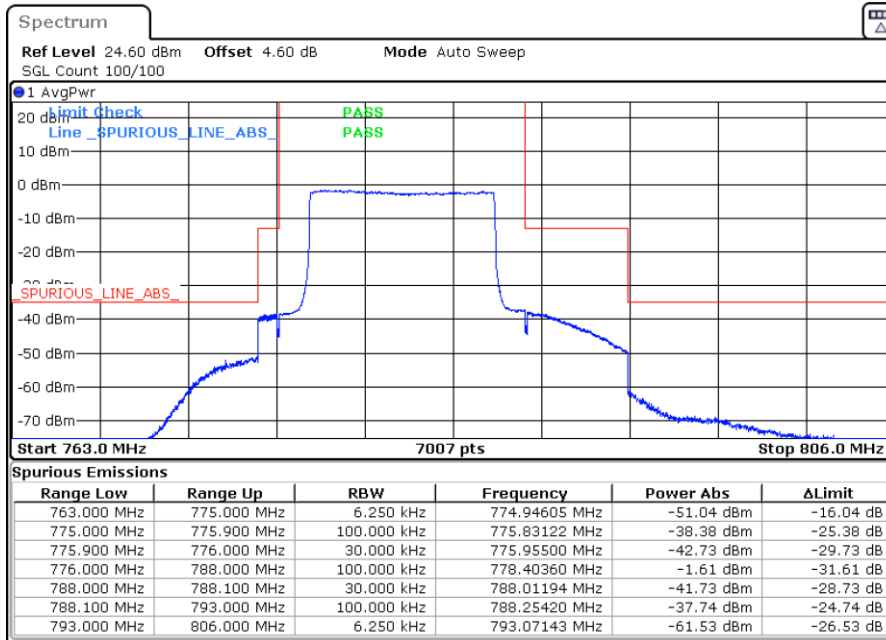
middle Band Edge / 1 RB



Date: 20.MAR.2025 16:09:04

Date: 20.MAR.2025 16:23:39

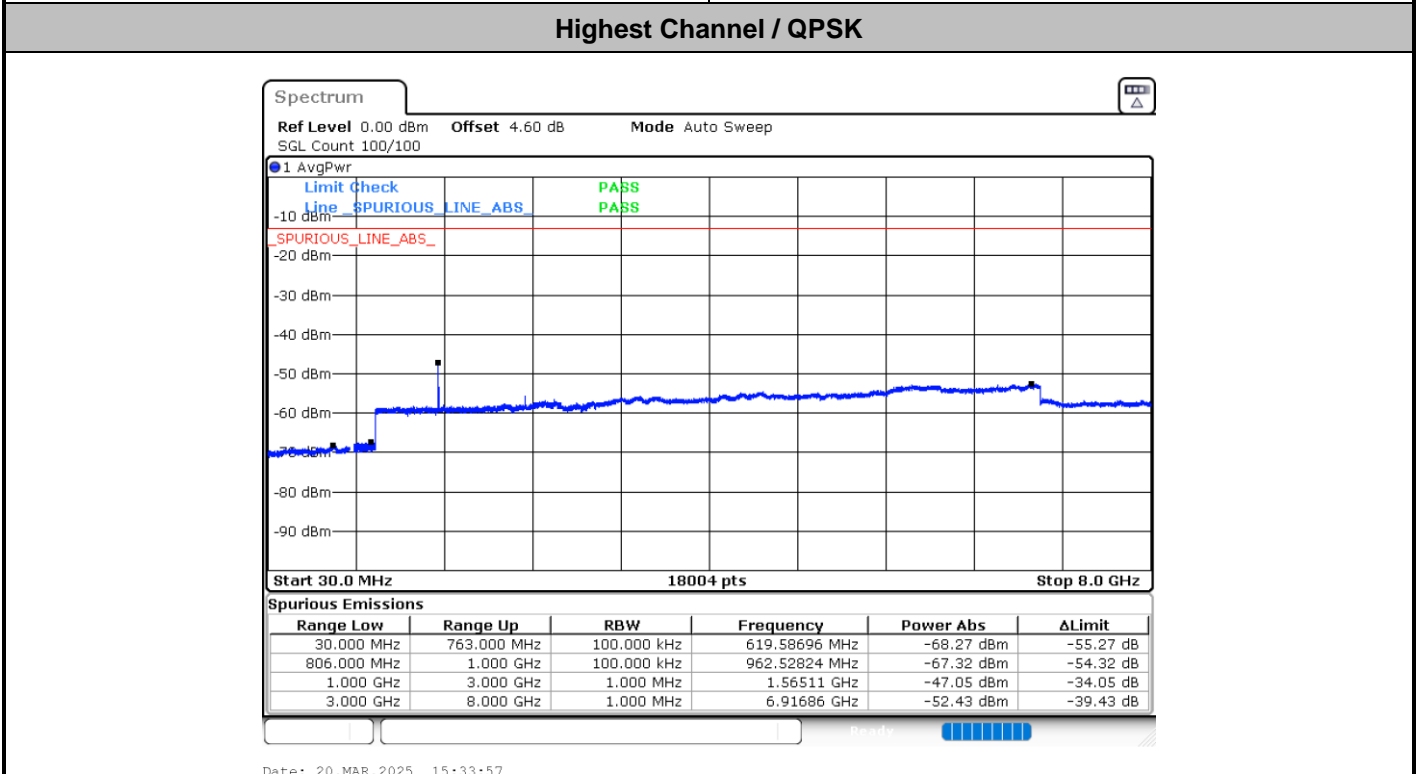
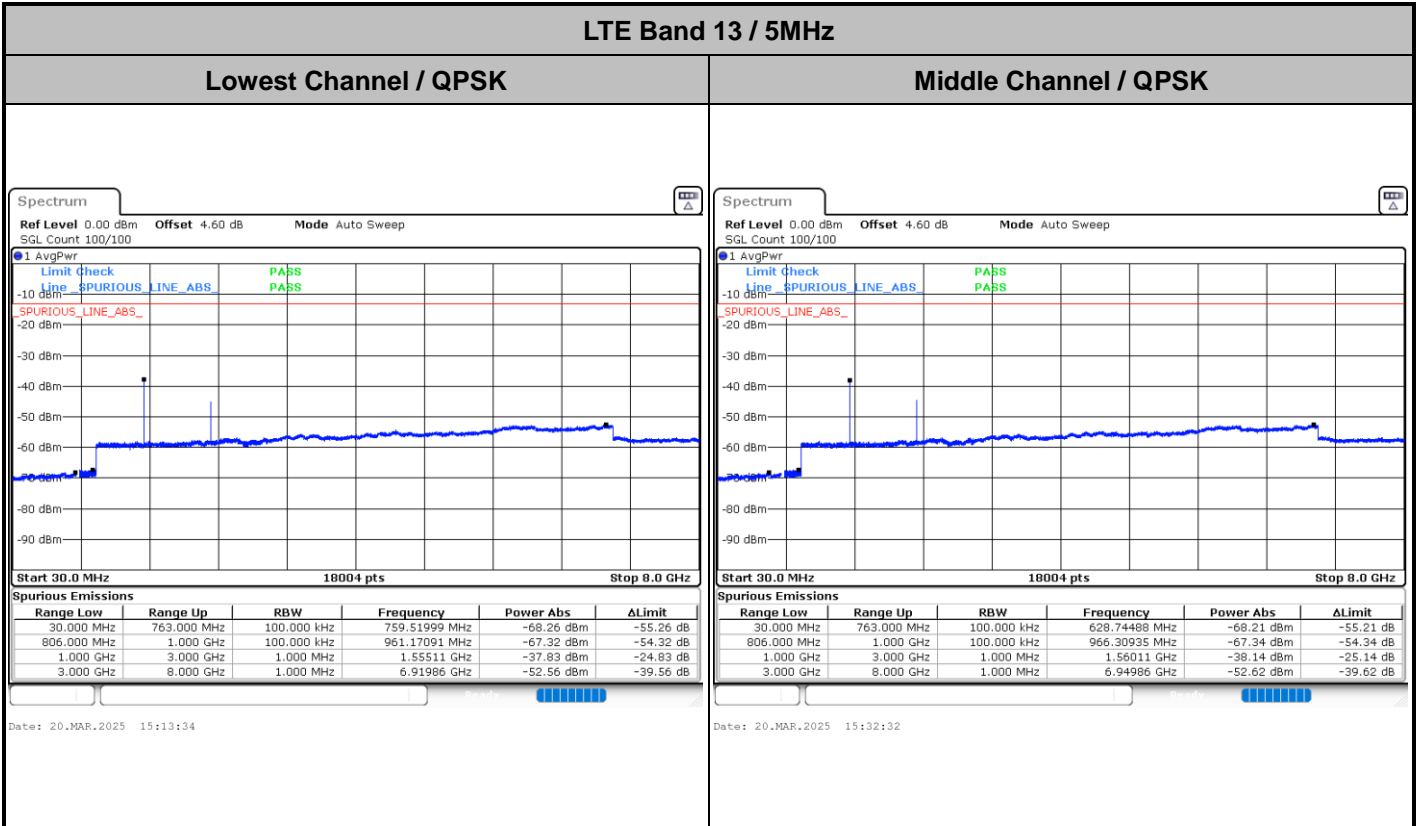
middle Band Edge / Full RB



Date: 20.MAR.2025 16:16:21



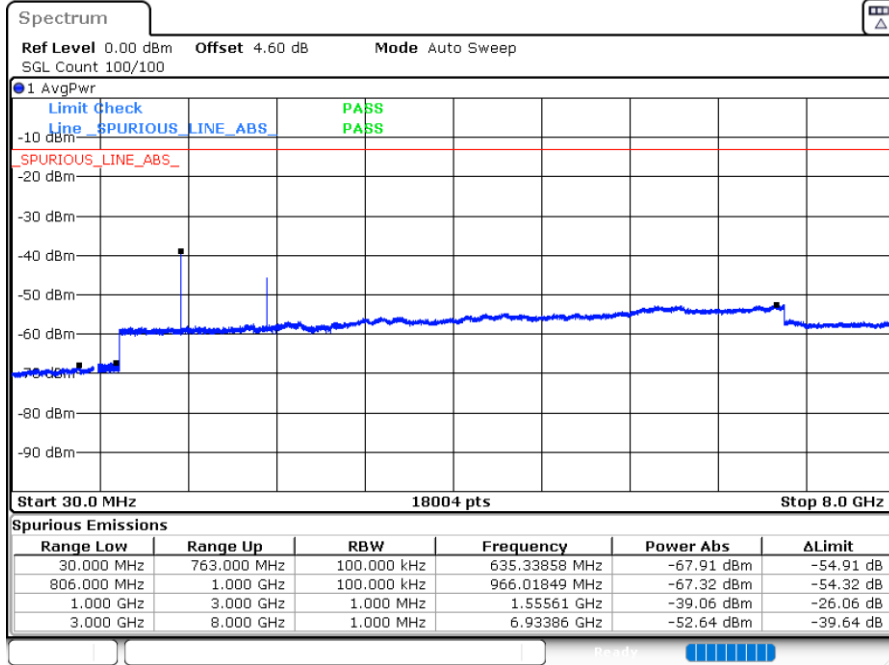
# Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 20.MAR.2025 16:01:46



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0046	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0038	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0018	
20	Battery End Point	0.0025	

Note:

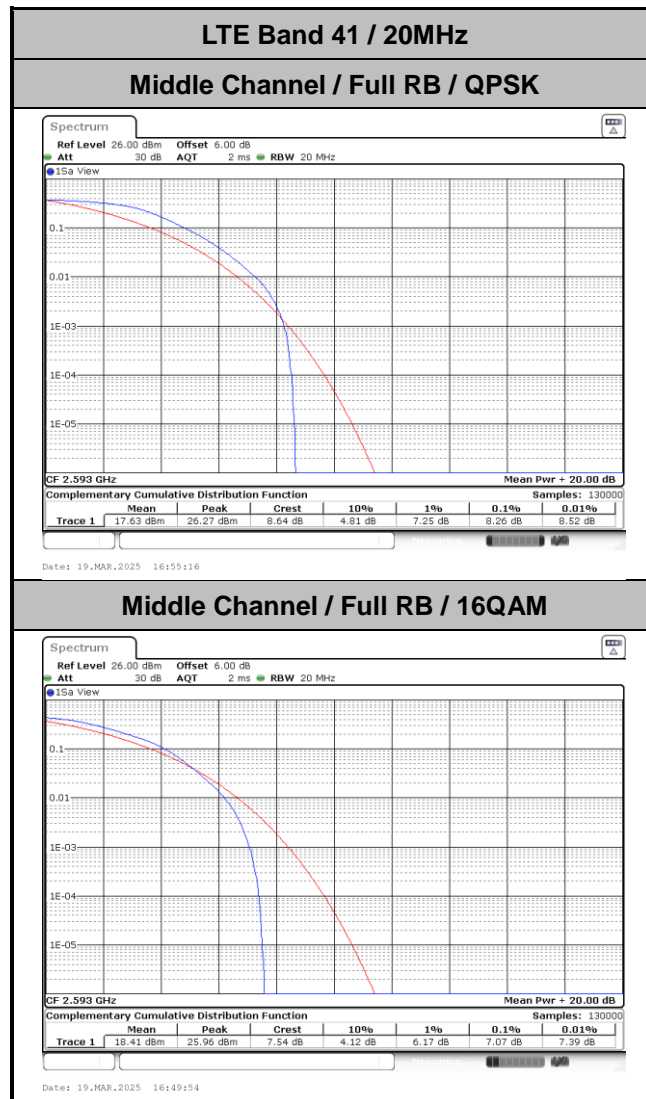
1. Normal Voltage =3.81 V.; Battery End Point (BEP) =3.4 V.; Maximum Voltage =4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

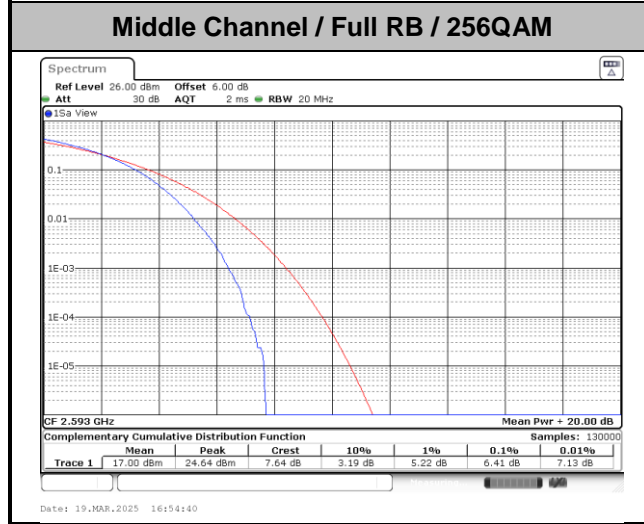
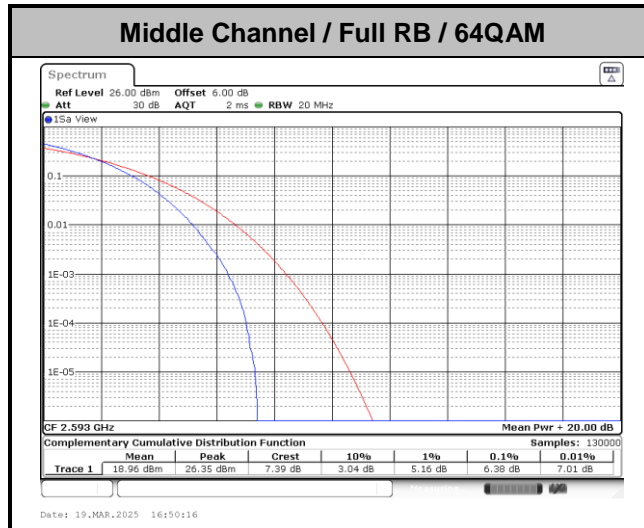


# LTE Band 41

## 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	8.26	7.07	6.38	6.41	PASS

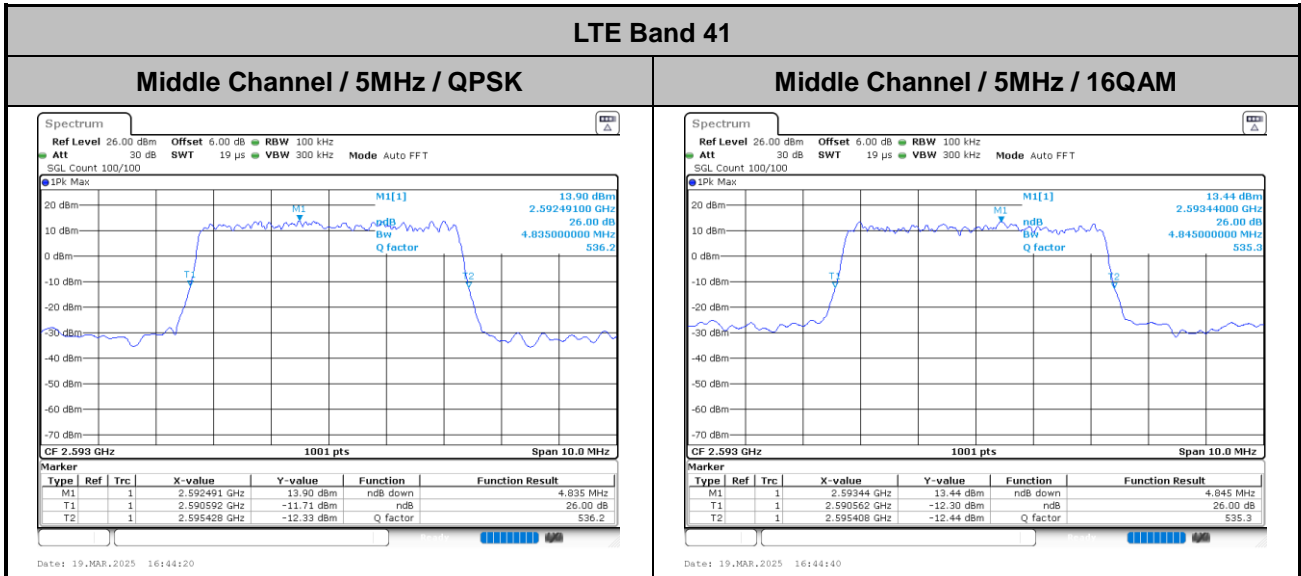






**26dB Bandwidth**

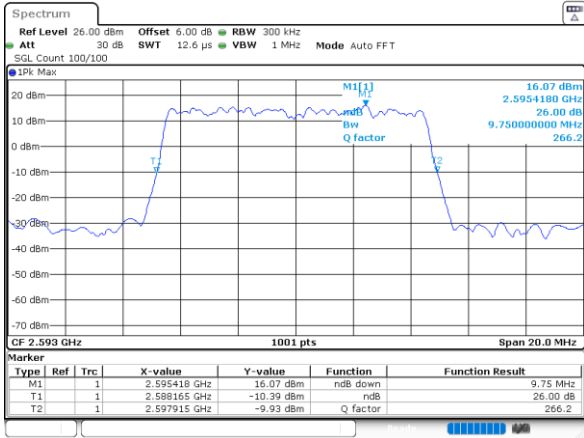
Mode	LTE Band 41 : 26dB BW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.84	4.85
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.75	9.71
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	14.27	14.18
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	18.74	18.82





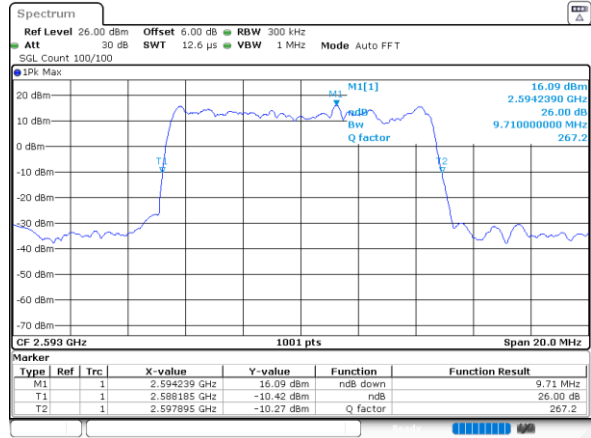
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 19\_MAR\_2025 16:45:43

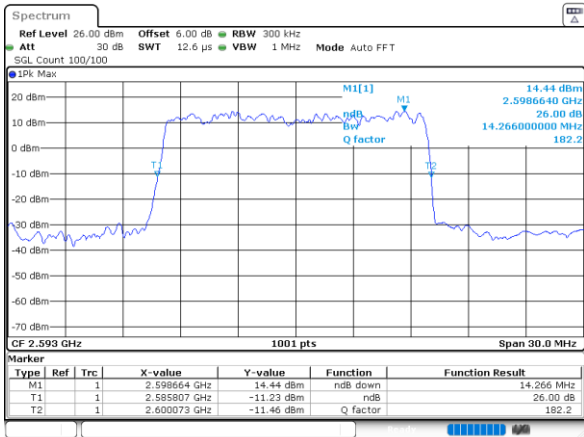
Middle Channel / 10MHz / 16QAM



Date: 19\_MAR\_2025 16:46:03

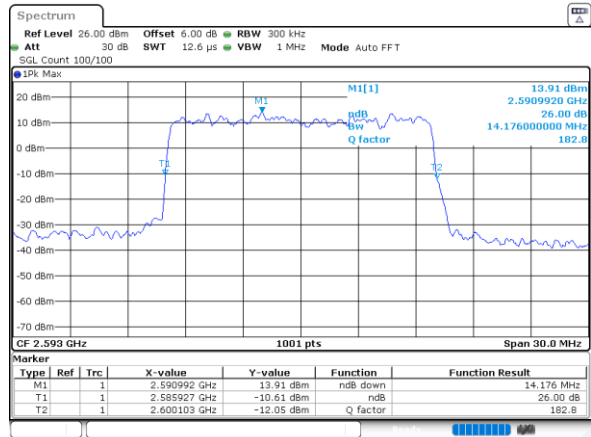
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 19\_MAR\_2025 16:47:06

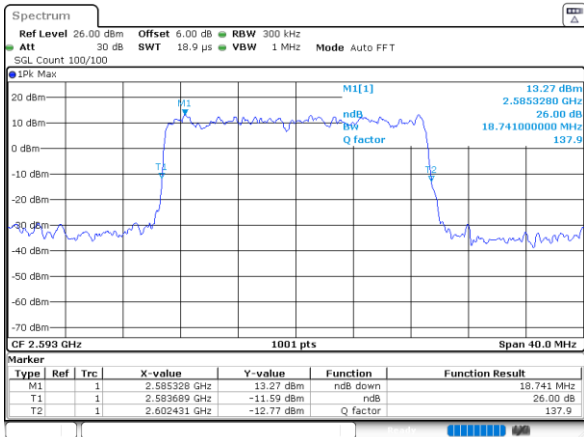
Middle Channel / 15MHz / 16QAM



Date: 19\_MAR\_2025 16:47:27

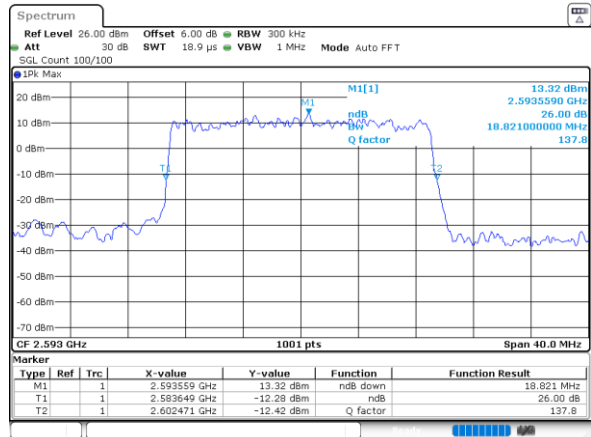
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 19\_MAR\_2025 16:48:29

Middle Channel / 20MHz / 16QAM

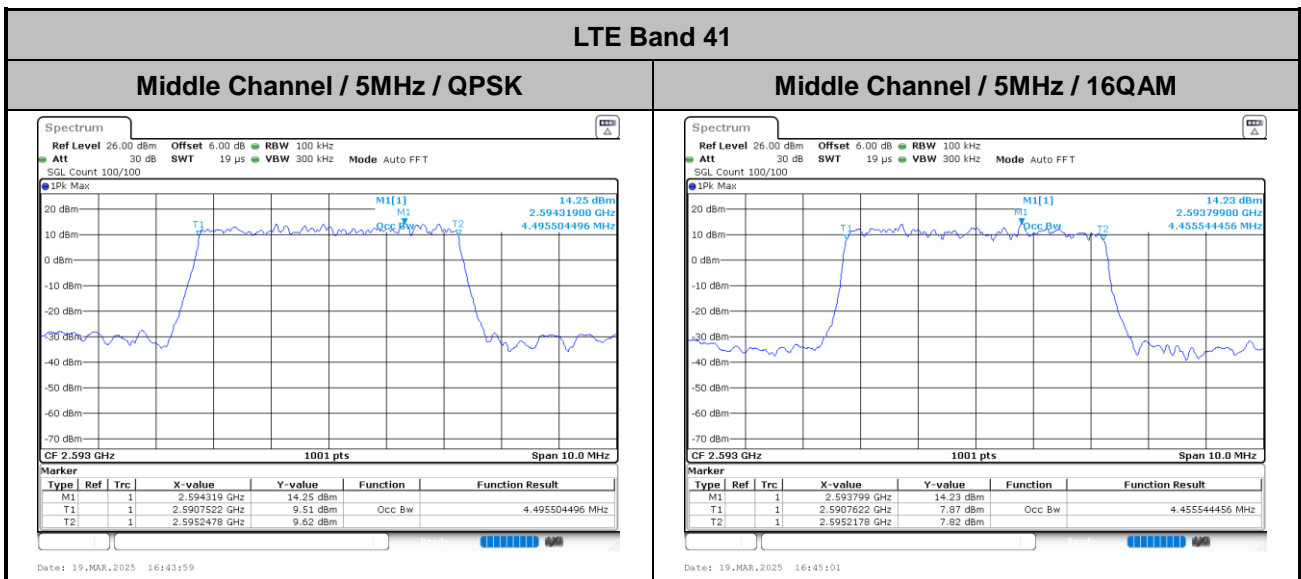


Date: 19\_MAR\_2025 16:48:50



# Occupied Bandwidth

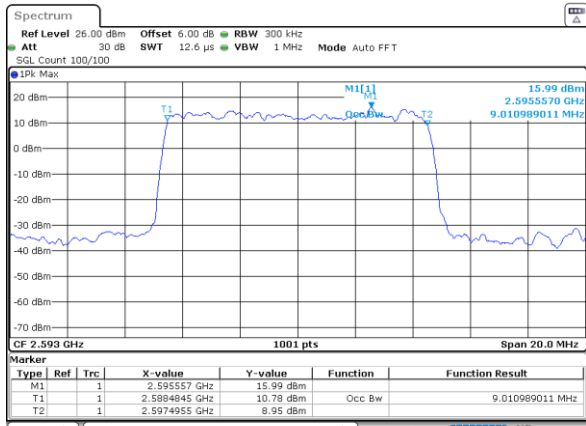
Mode	LTE Band 41 : 99%OBW(MHz)	
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.50	4.46
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.01	9.03
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	13.43	13.46
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	17.94	17.90





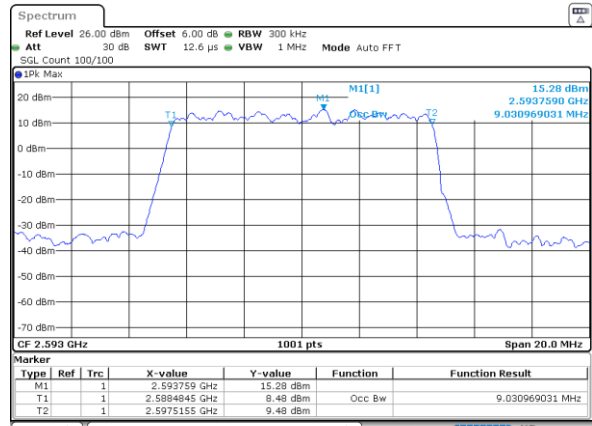
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 19\_MAR\_2025 16:45:22

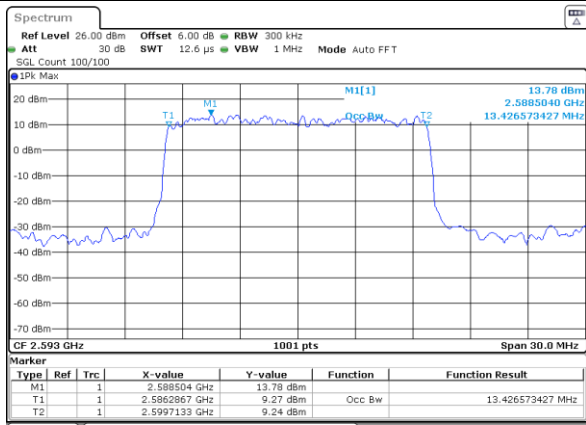
Middle Channel / 10MHz / 16QAM



Date: 19\_MAR\_2025 16:46:24

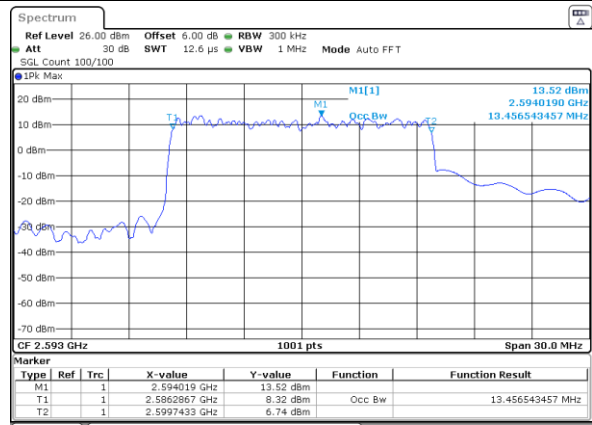
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 19\_MAR\_2025 16:46:45

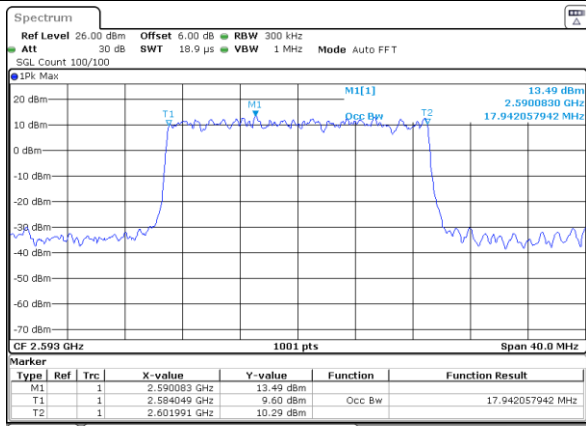
Middle Channel / 15MHz / 16QAM



Date: 19\_MAR\_2025 16:47:47

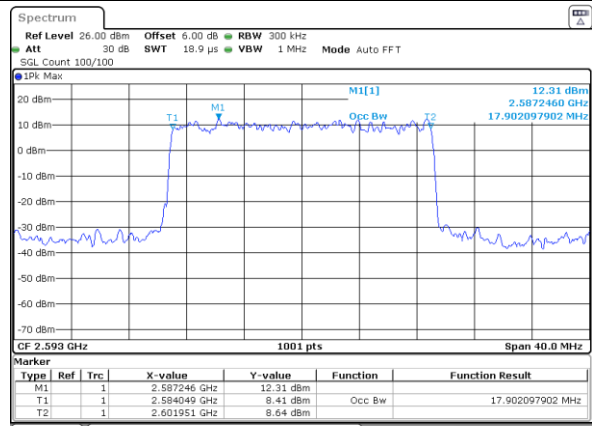
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 19\_MAR\_2025 16:48:09

Middle Channel / 20MHz / 16QAM



Date: 19\_MAR\_2025 16:49:11



# Conducted Band Edge

