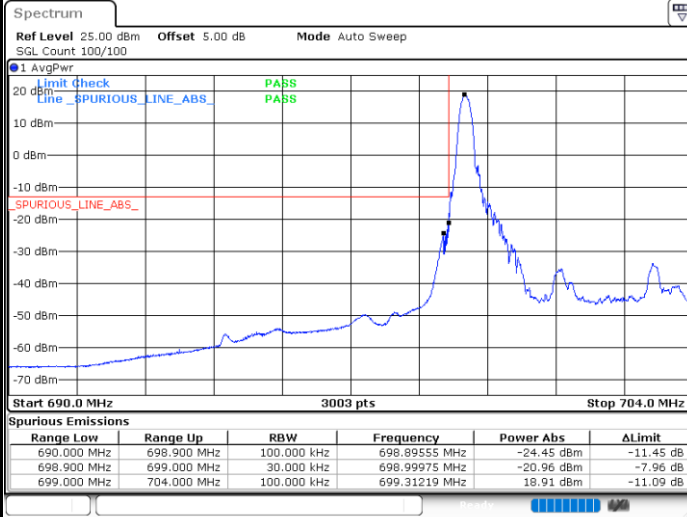




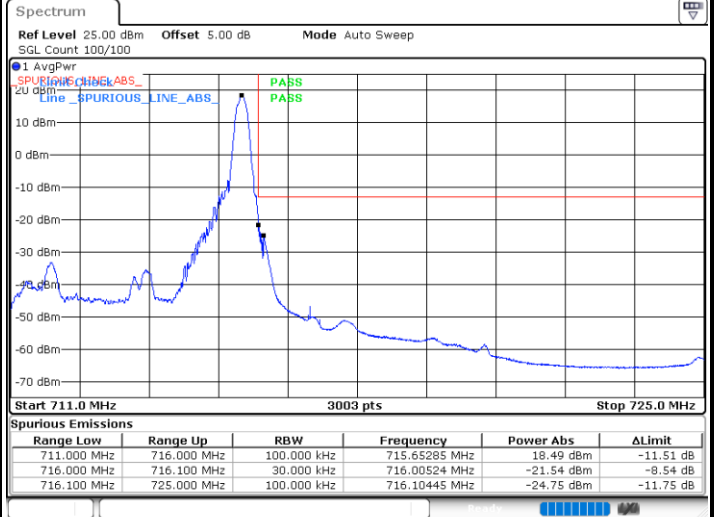
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



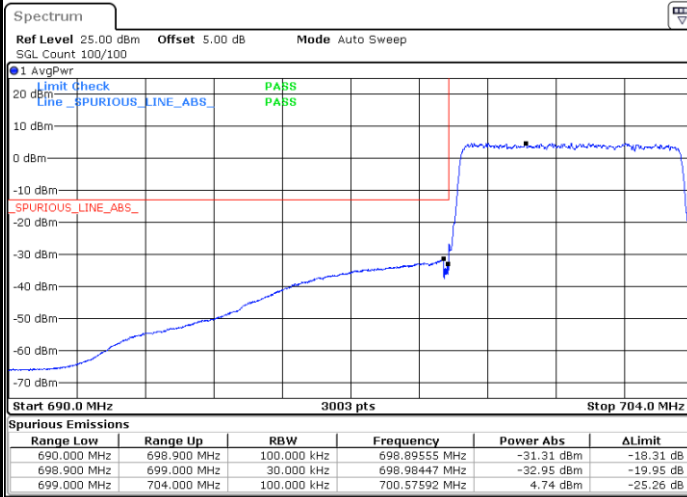
Date: 14.MAY.2024 15:49:46

Highest Band Edge / 1 RB



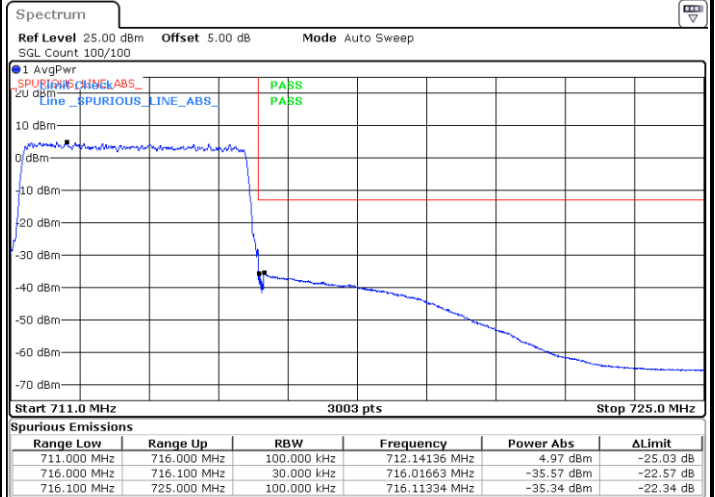
Date: 14.MAY.2024 16:05:55

Lowest Band Edge / Full RB



Date: 14.MAY.2024 15:55:20

Highest Band Edge / Full RB

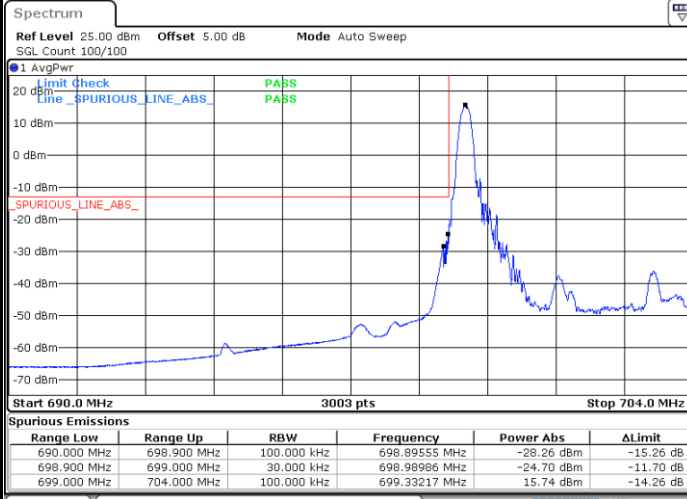


Date: 14.MAY.2024 16:11:28



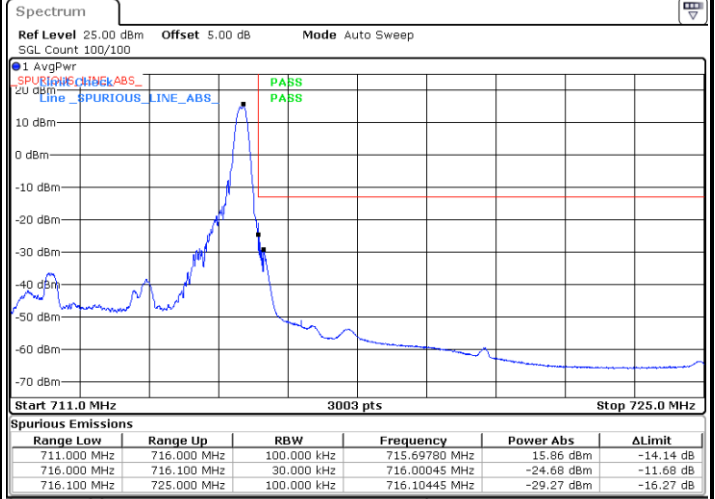
LTE Band 12 / 5MHz / 256QAM

Lowest Band Edge / 1RB



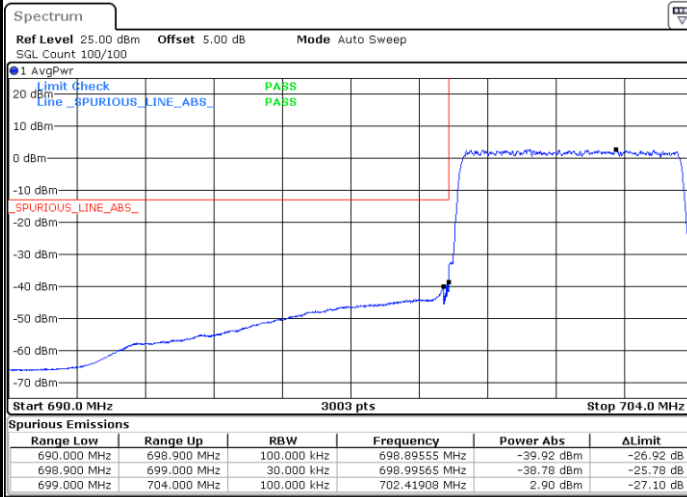
Date: 14.MAY.2024 15:51:10

Highest Band Edge / 1 RB



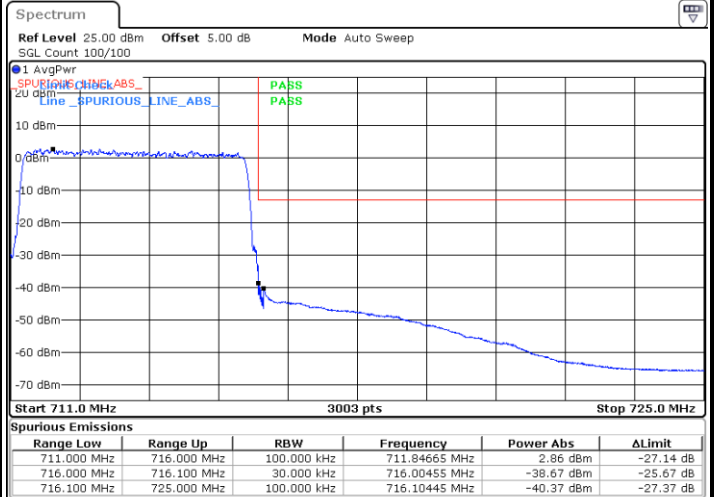
Date: 14.MAY.2024 16:07:18

Lowest Band Edge / Full RB



Date: 14.MAY.2024 15:56:43

Highest Band Edge / Full RB

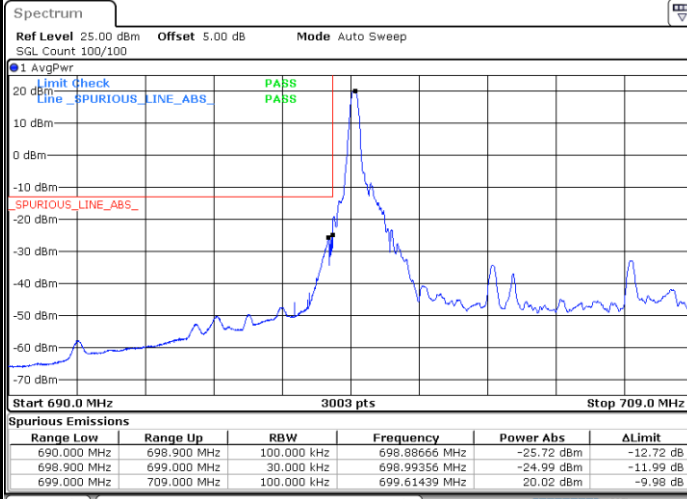


Date: 14.MAY.2024 16:12:52



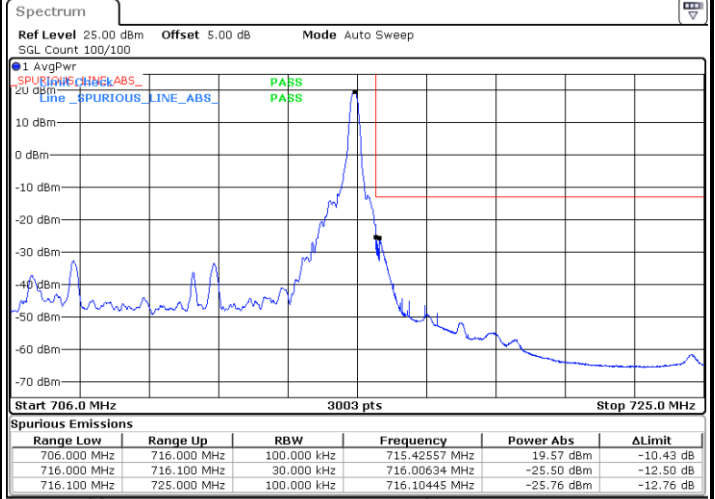
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



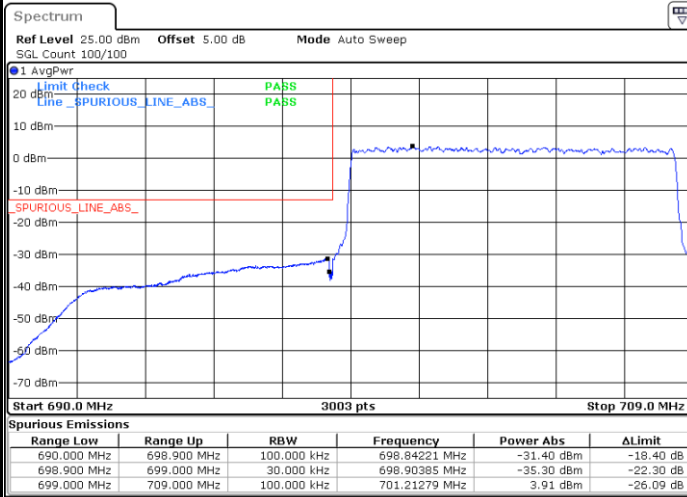
Date: 14.MAY.2024 16:18:21

Highest Band Edge / 1 RB



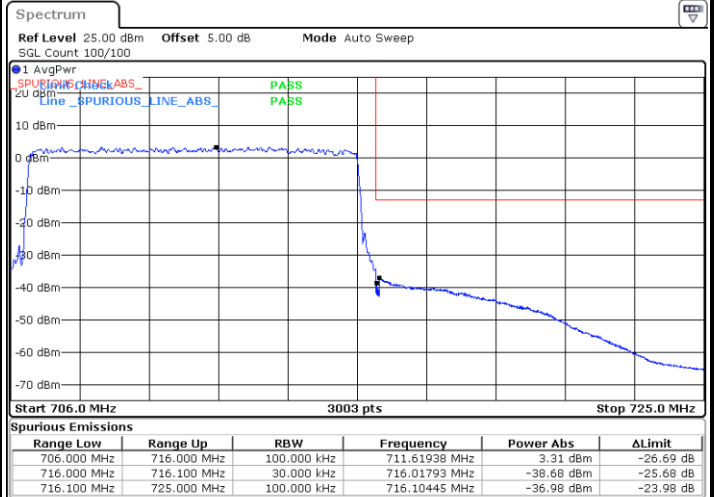
Date: 14.MAY.2024 16:32:57

Lowest Band Edge / Full RB



Date: 14.MAY.2024 16:23:57

Highest Band Edge / Full RB

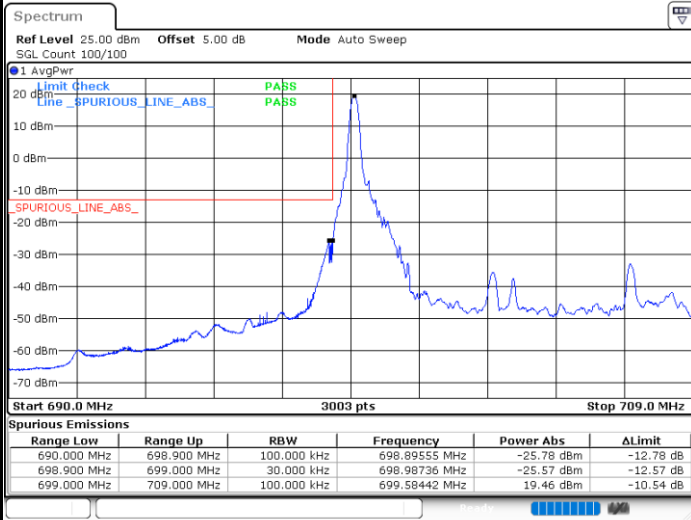


Date: 14.MAY.2024 16:38:36



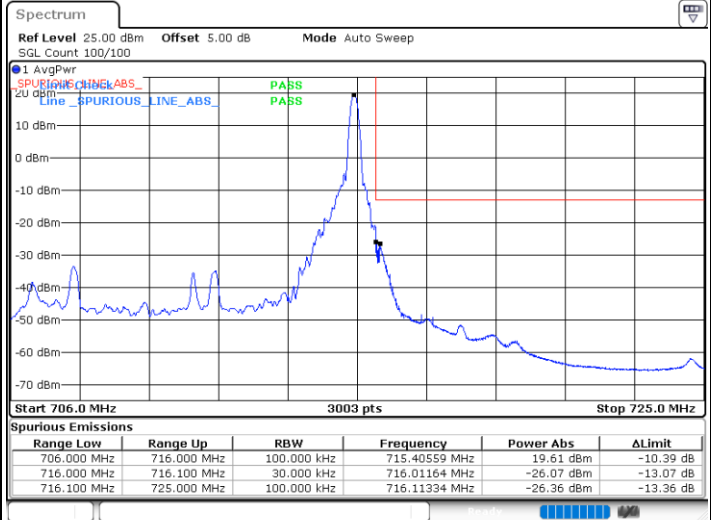
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



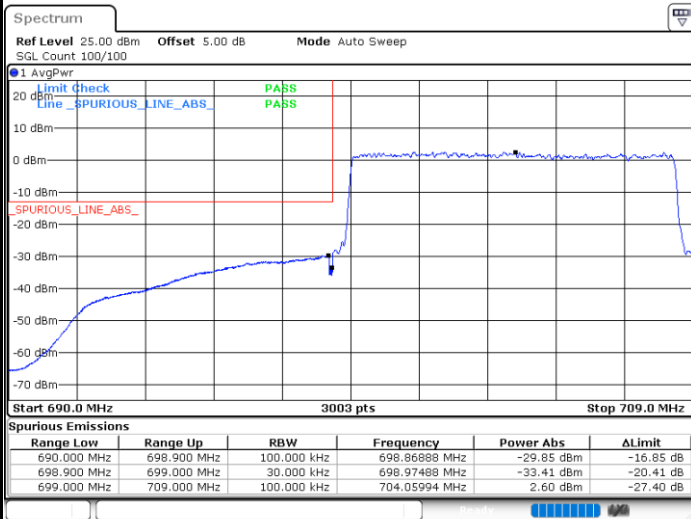
Date: 14.MAY.2024 16:19:47

Highest Band Edge / 1 RB



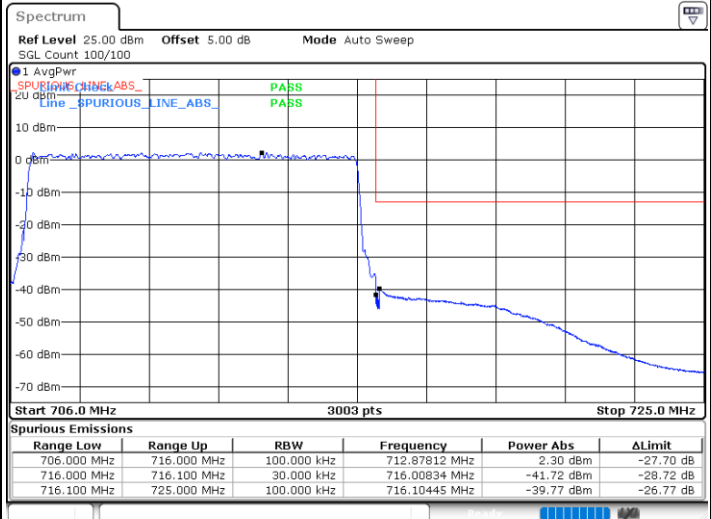
Date: 14.MAY.2024 16:34:27

Lowest Band Edge / Full RB



Date: 14.MAY.2024 16:25:20

Highest Band Edge / Full RB

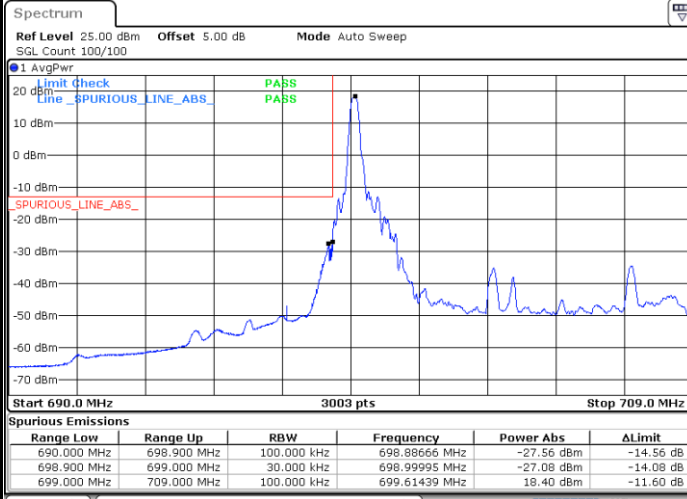


Date: 14.MAY.2024 16:40:00



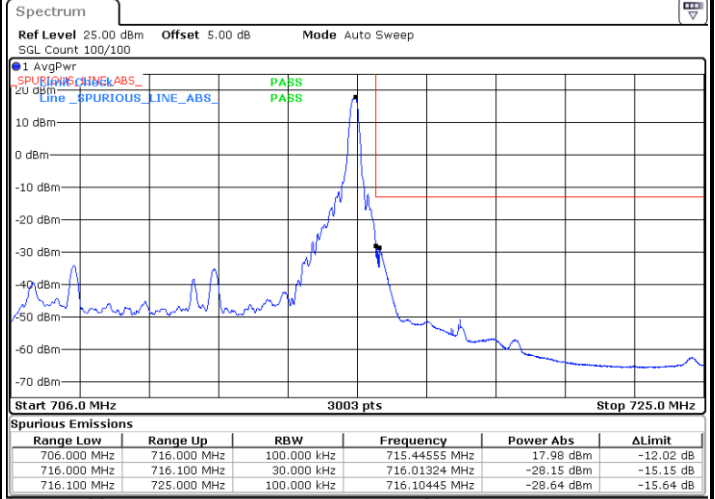
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



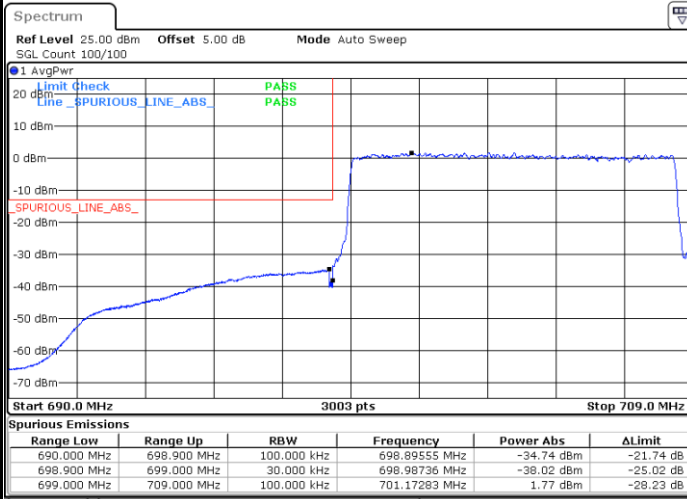
Date: 14.MAY.2024 16:21:10

Highest Band Edge / 1 RB



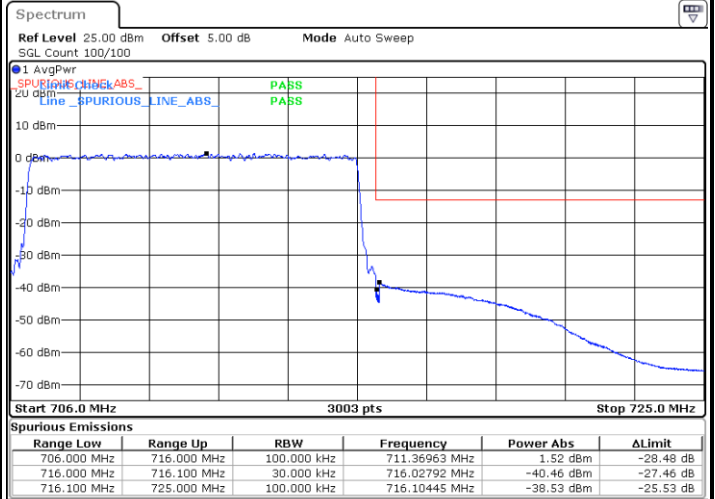
Date: 14.MAY.2024 16:35:50

Lowest Band Edge / Full RB



Date: 14.MAY.2024 16:26:43

Highest Band Edge / Full RB

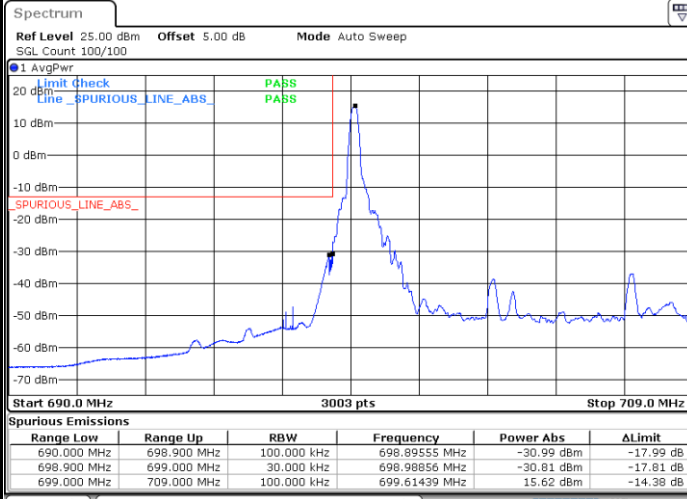


Date: 14.MAY.2024 16:41:23



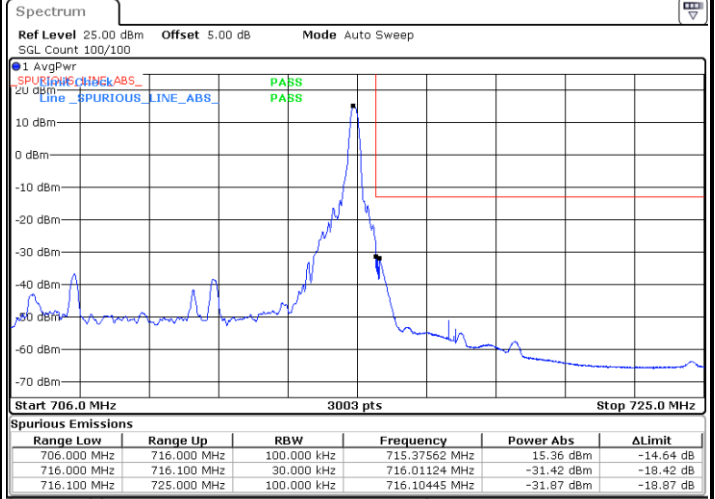
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



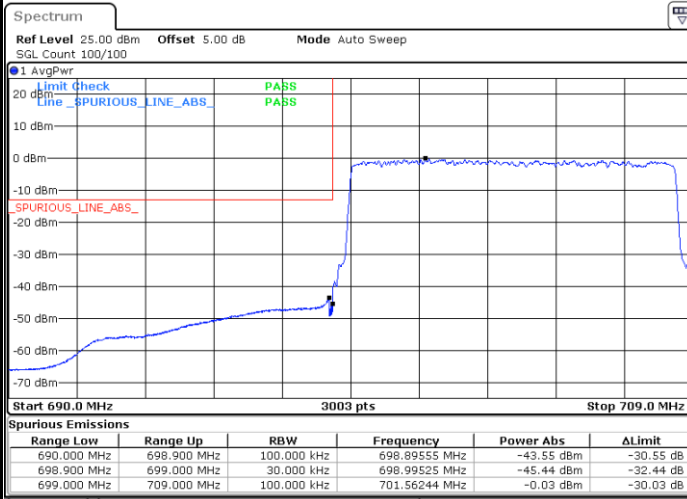
Date: 14.MAY.2024 16:22:34

Highest Band Edge / 1 RB



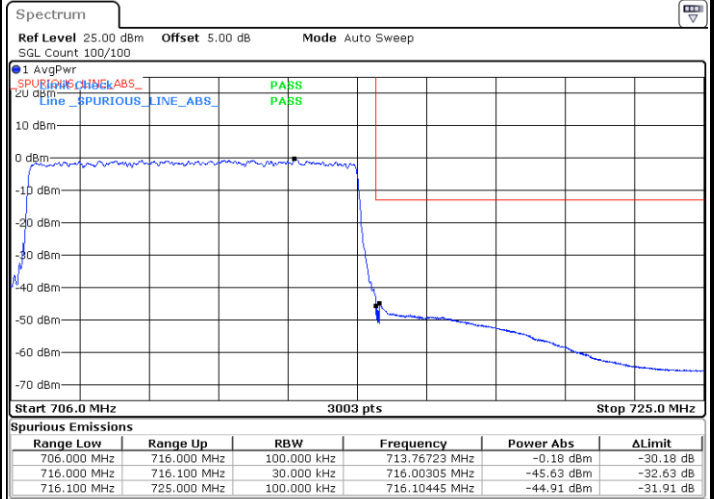
Date: 14.MAY.2024 16:37:13

Lowest Band Edge / Full RB



Date: 14.MAY.2024 16:28:07

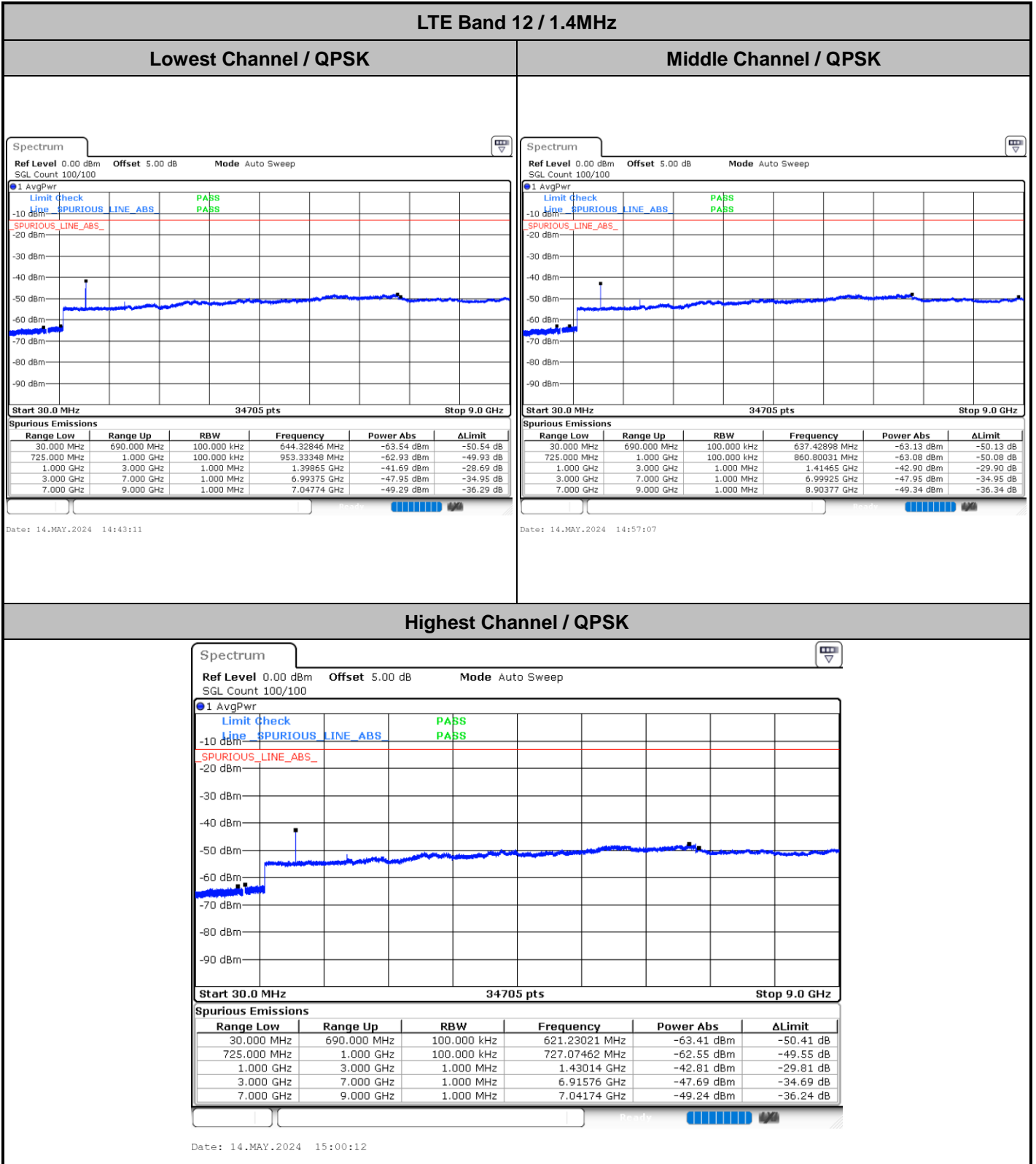
Highest Band Edge / Full RB



Date: 14.MAY.2024 16:42:46



# Conducted Spurious Emission

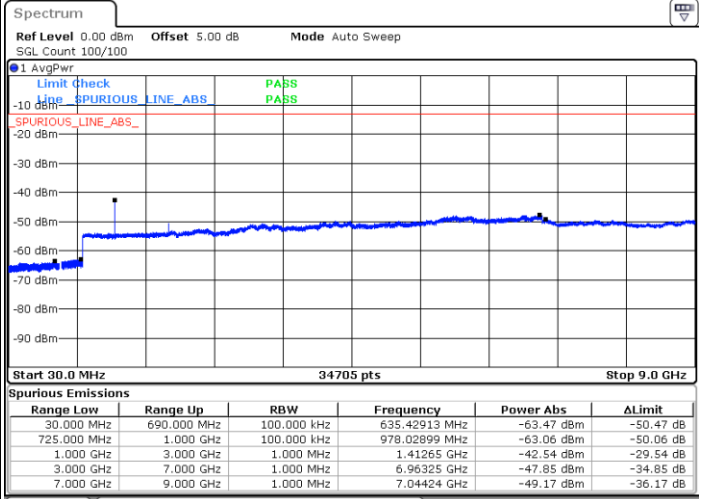
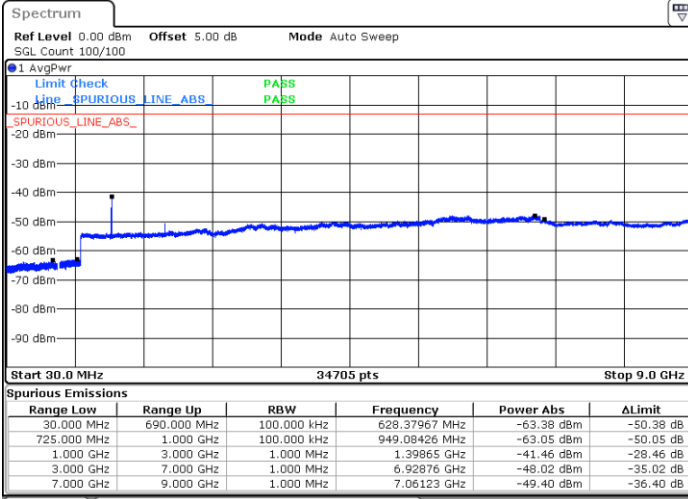




LTE Band 12 / 3MHz

Lowest Channel / QPSK

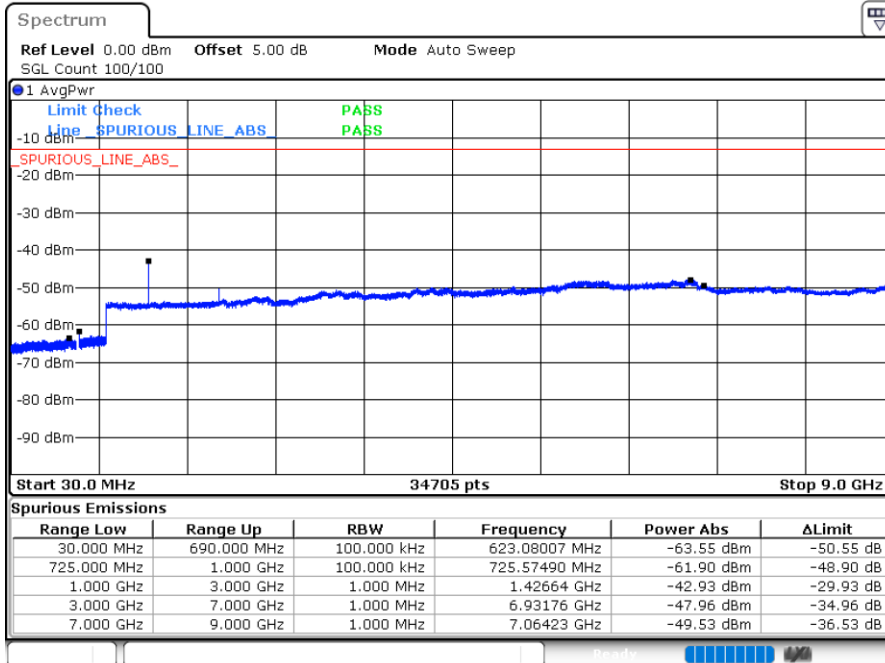
Middle Channel / QPSK



Date: 14.MAY.2024 15:14:33

Date: 14.MAY.2024 15:27:14

Highest Channel / QPSK



Date: 14.MAY.2024 15:30:19

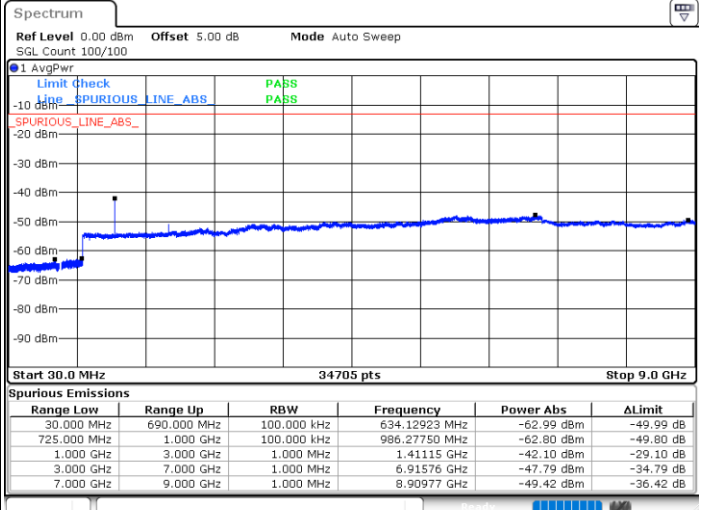
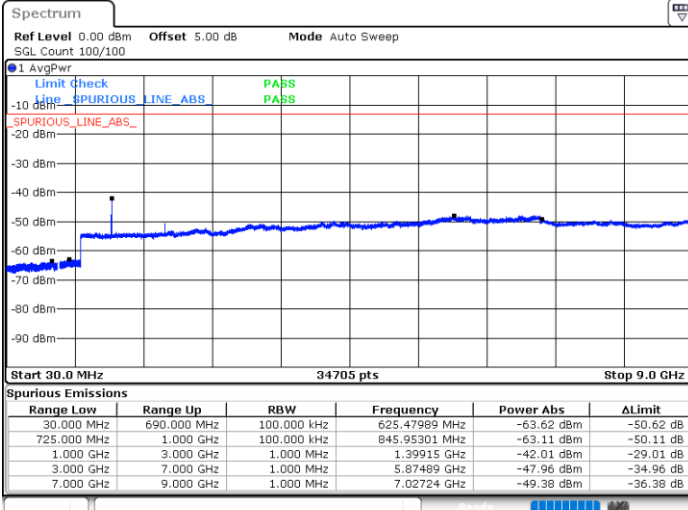




LTE Band 12 / 5MHz

Lowest Channel / QPSK

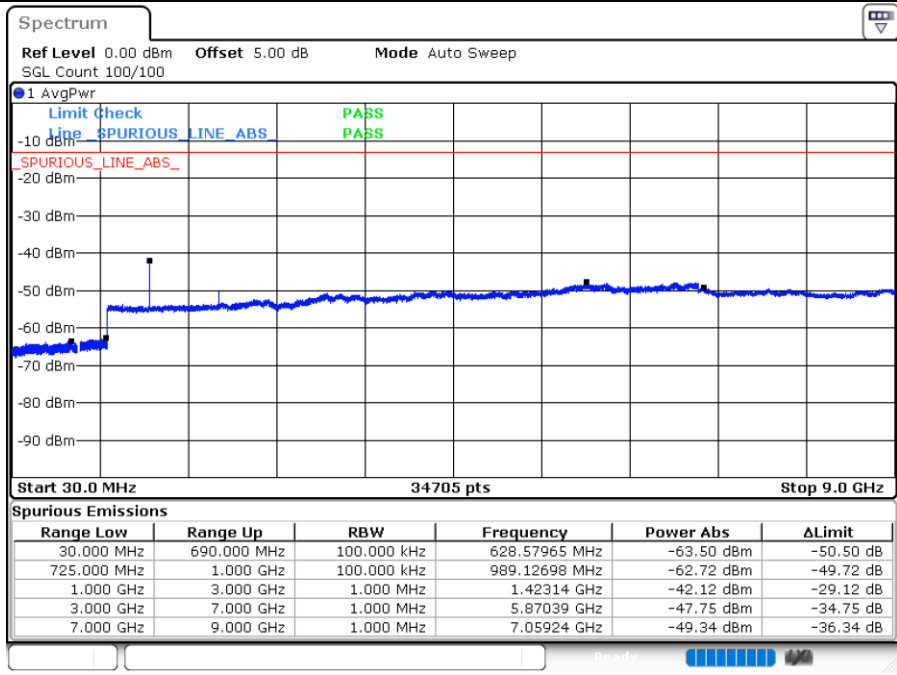
Middle Channel / QPSK



Date: 14.MAY.2024 15:45:48

Date: 14.MAY.2024 15:58:26

Highest Channel / QPSK



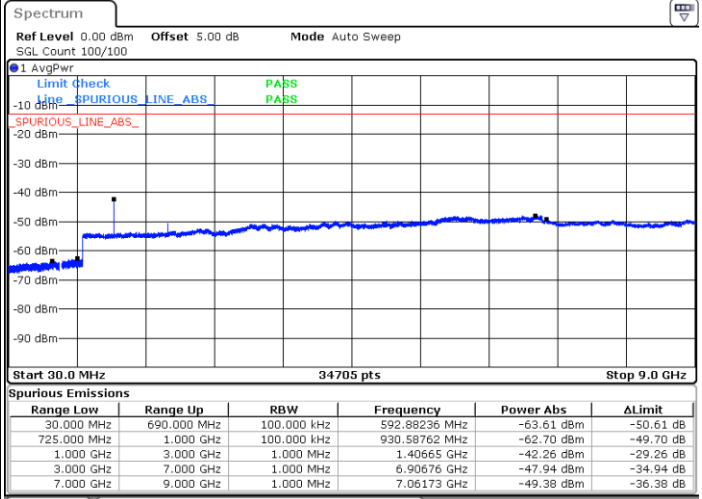
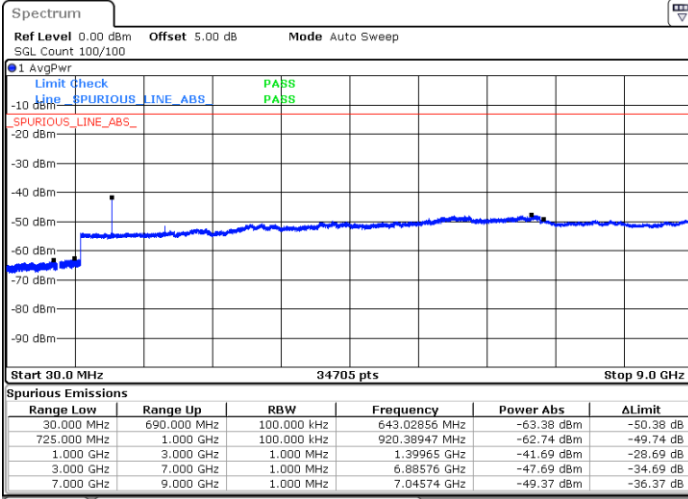
Date: 14.MAY.2024 16:01:31



LTE Band 12 / 10MHz

Lowest Channel / QPSK

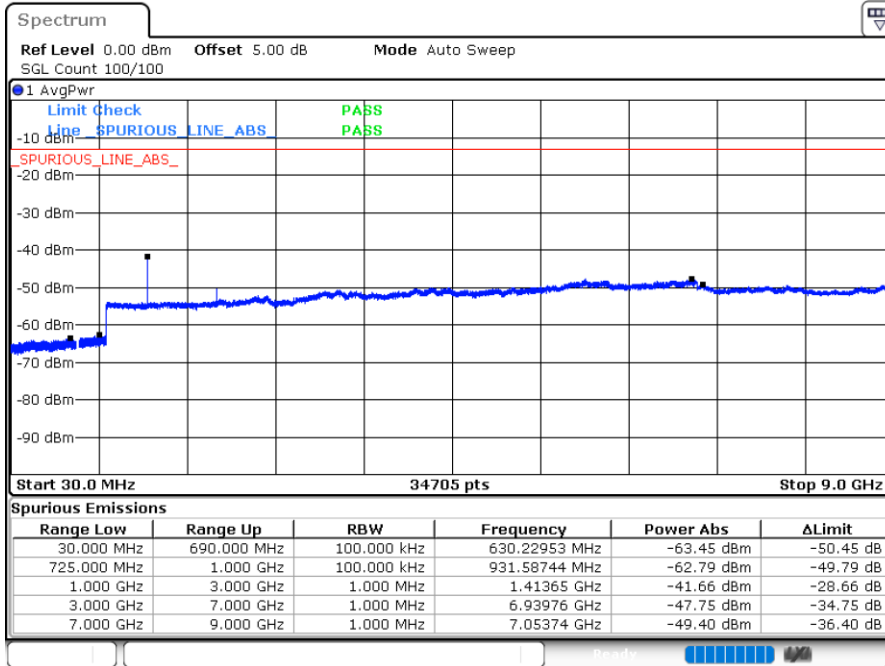
Middle Channel / QPSK



Date: 14.MAY.2024 16:17:12

Date: 14.MAY.2024 16:29:49

Highest Channel / QPSK



Date: 14.MAY.2024 16:31:31



### 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	0.0032	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

**Note:**

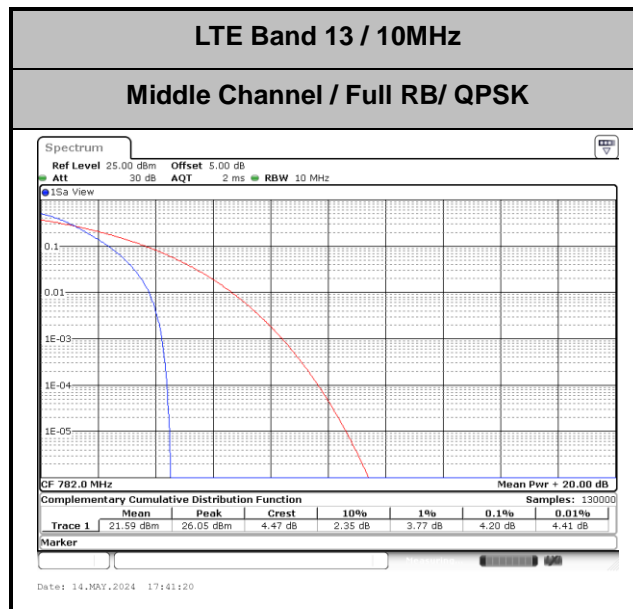
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

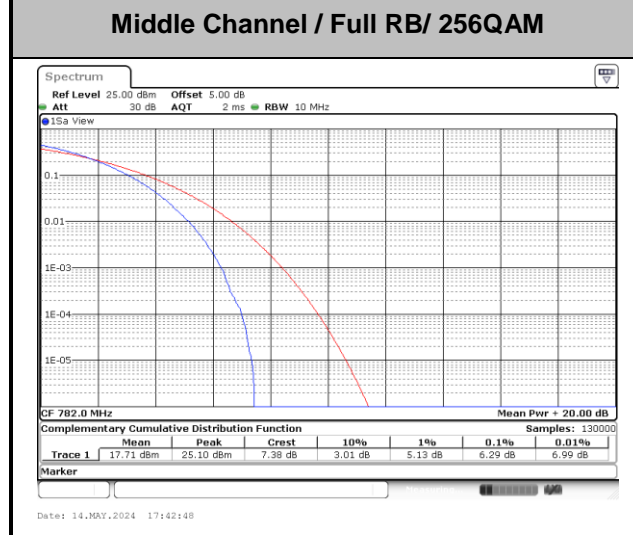
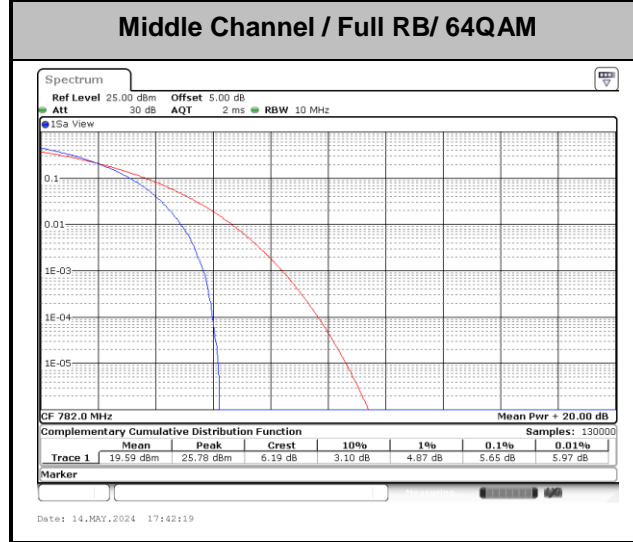
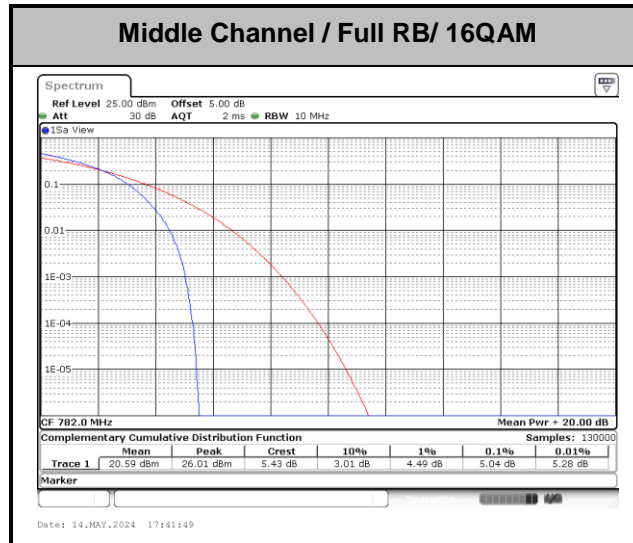


# LTE Band 13

## 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	4.20	5.04	5.65	6.29	PASS

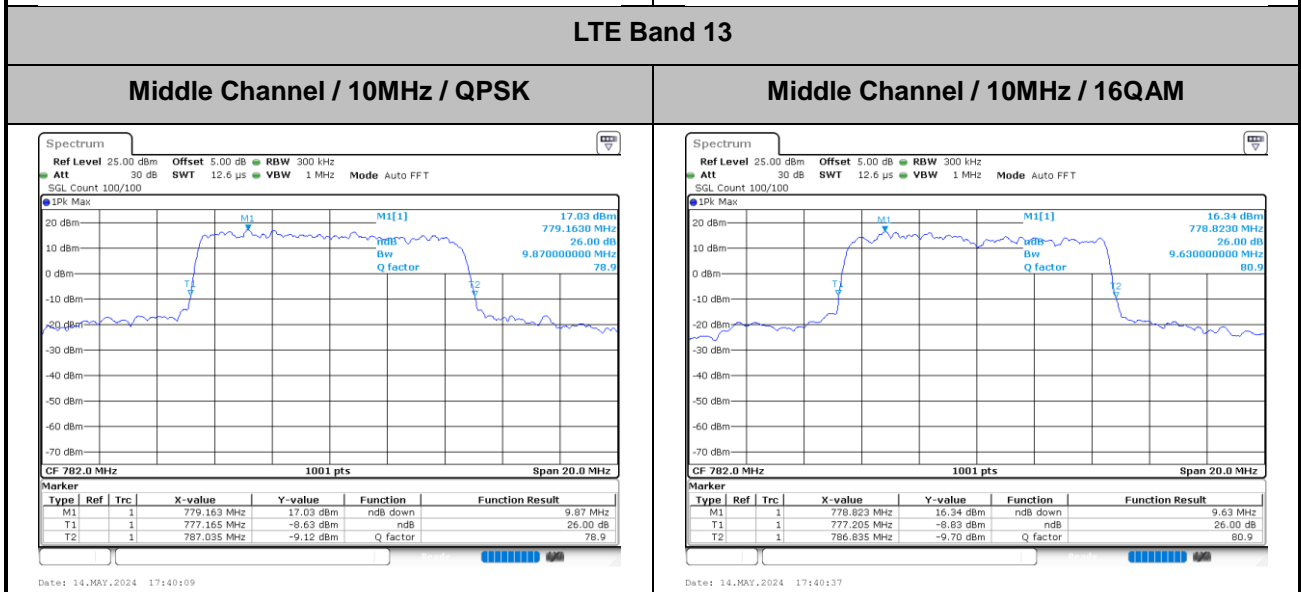
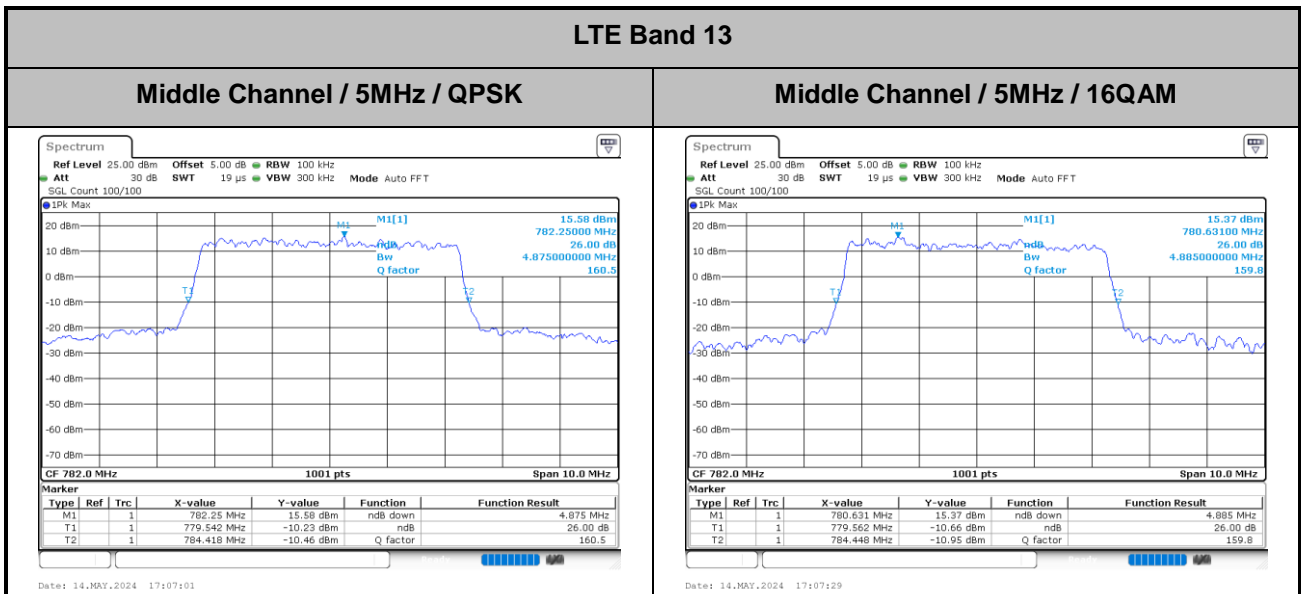






## 26dB Bandwidth

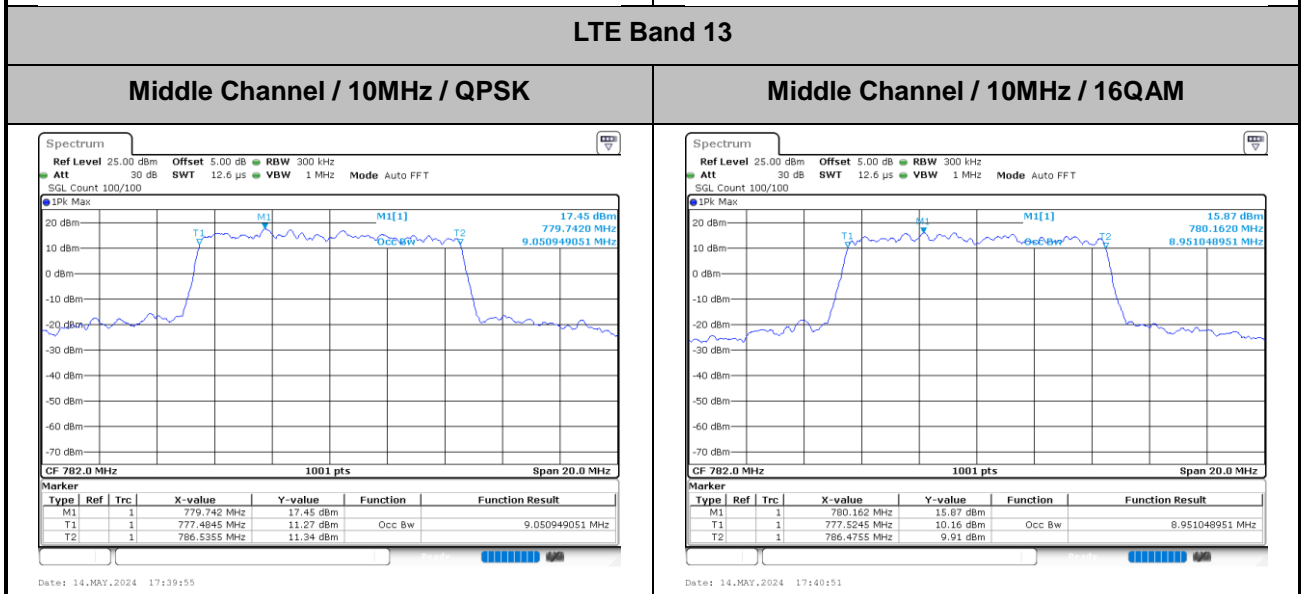
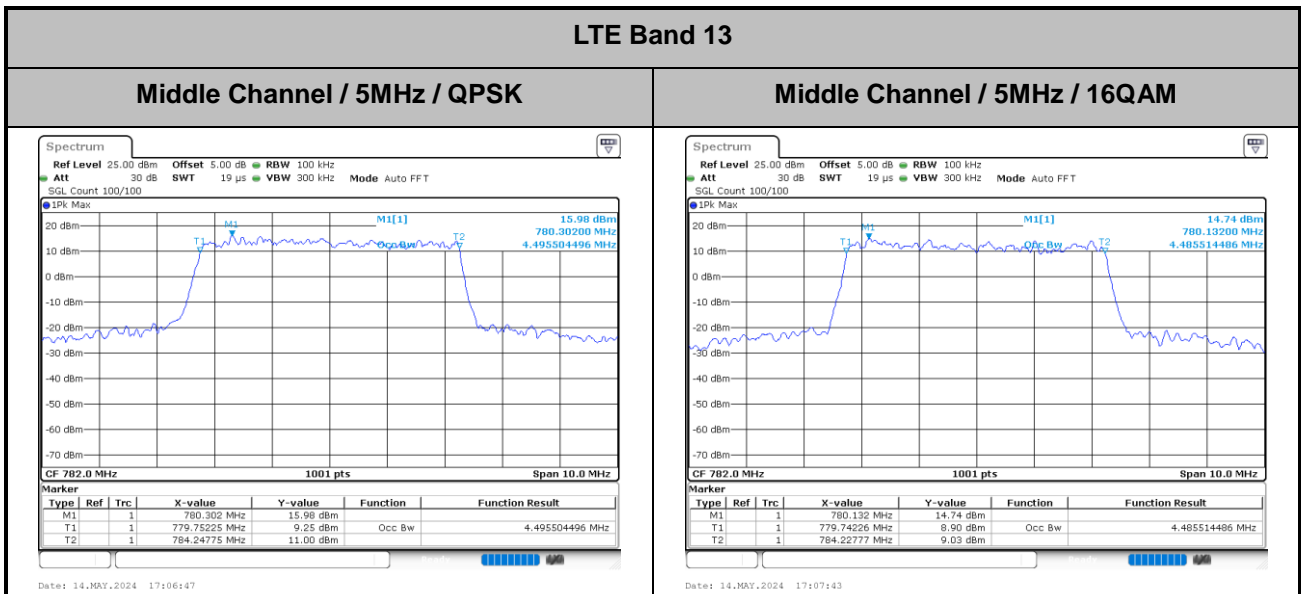
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.88	4.89
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.87	9.63





# Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	8.95



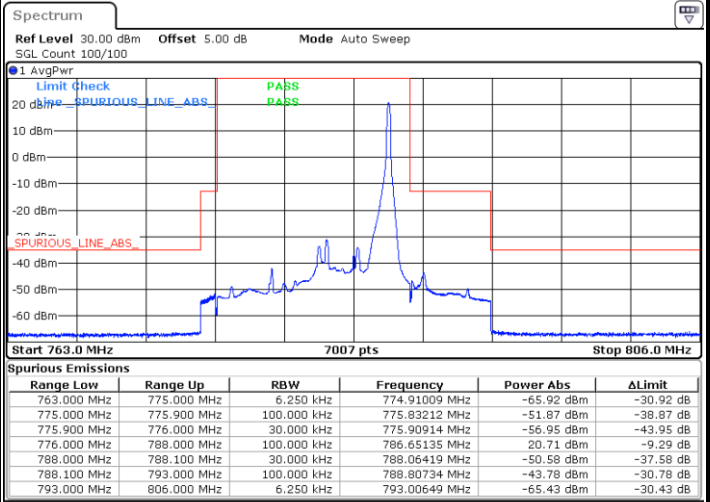
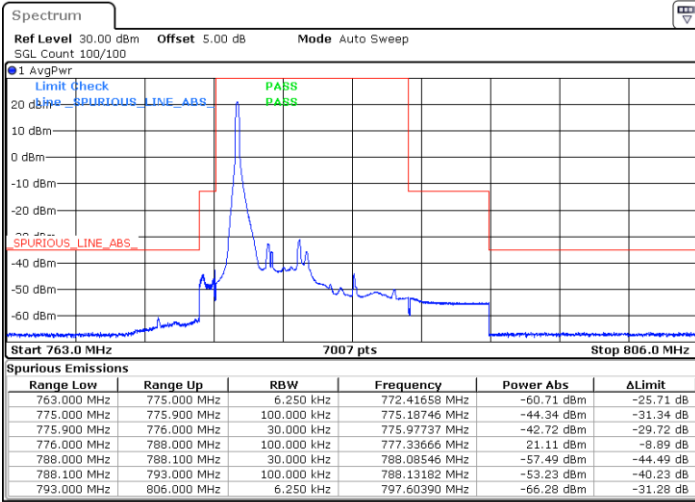


# Conducted Band Edge

## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

### Highest Band Edge / 1 RB

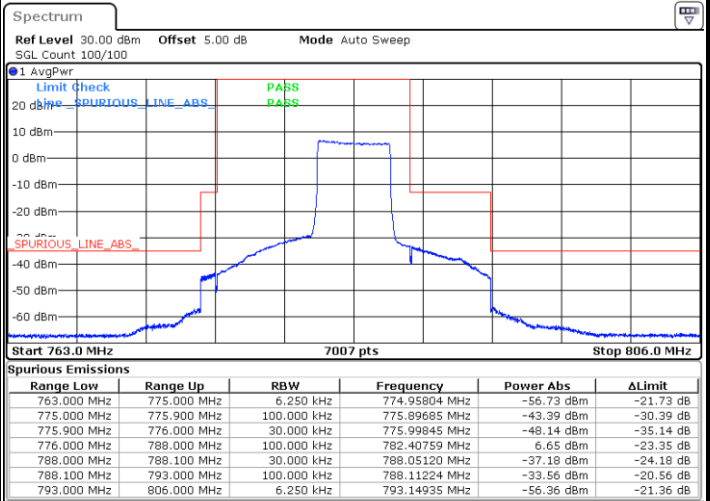
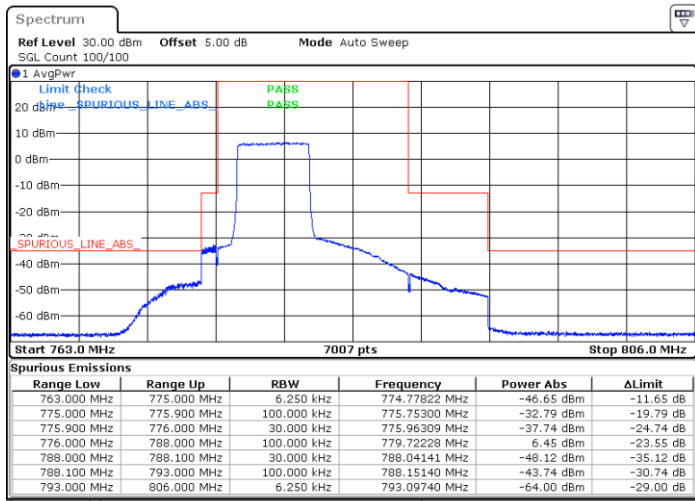


Date: 14.MAY.2024 16:54:52

Date: 14.MAY.2024 17:10:54

### Lowest Band Edge / Full RB

### Highest Band Edge / Full RB



Date: 14.MAY.2024 17:00:28

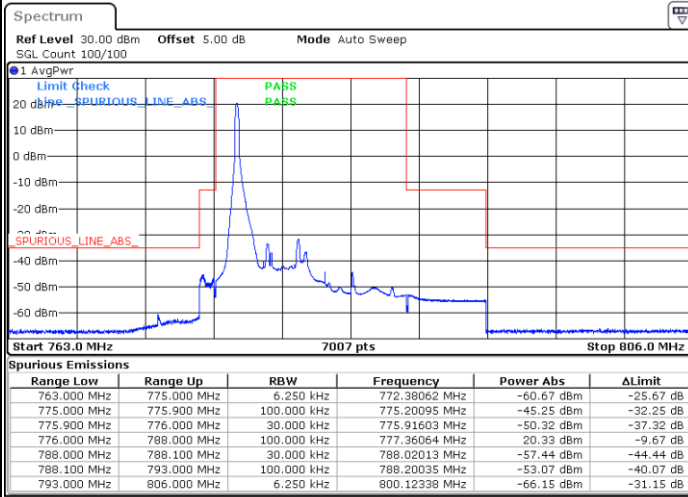
Date: 14.MAY.2024 17:16:34





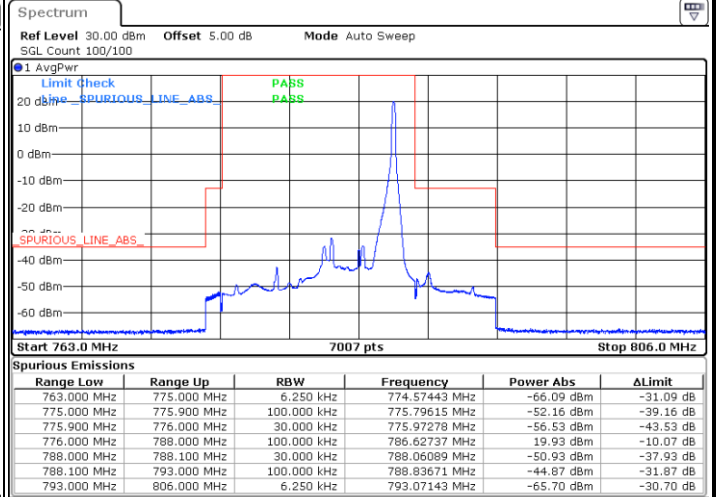
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



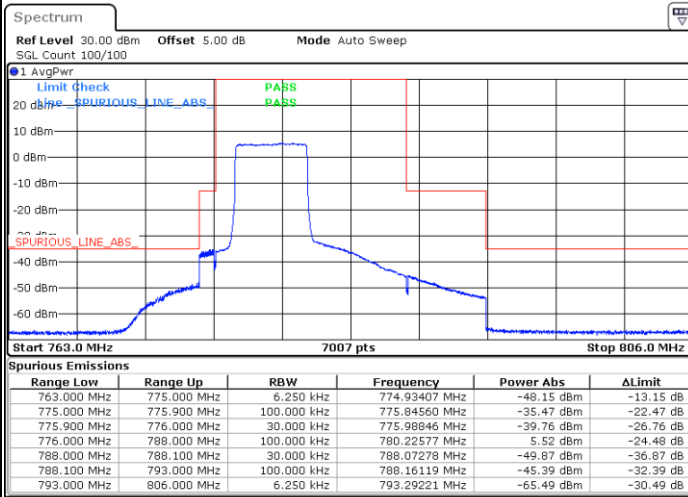
Date: 14.MAY.2024 16:56:18

Highest Band Edge / 1 RB



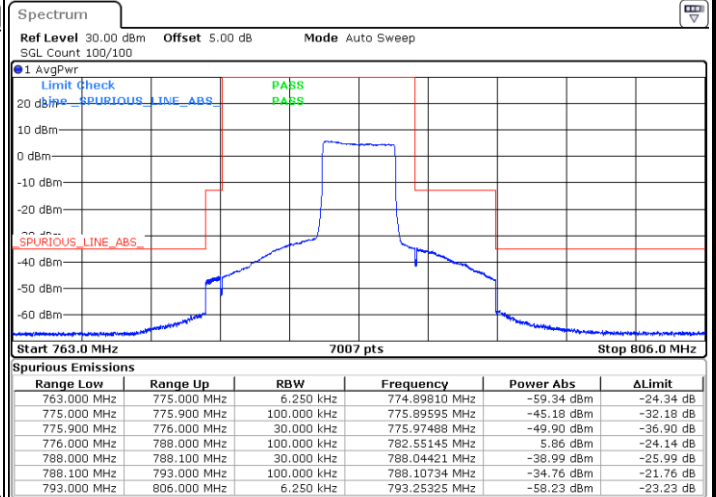
Date: 14.MAY.2024 17:12:25

Lowest Band Edge / Full RB



Date: 14.MAY.2024 17:01:50

Highest Band Edge / Full RB



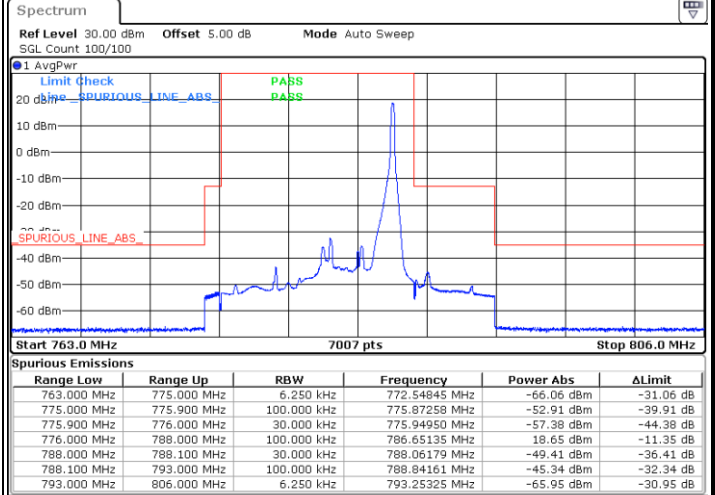
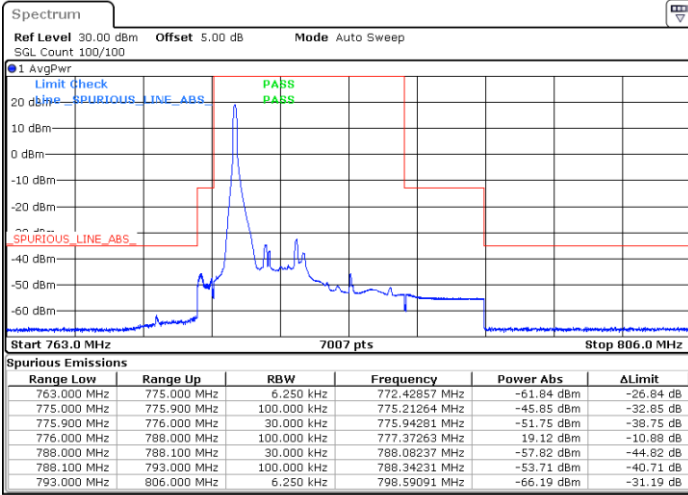
Date: 14.MAY.2024 17:17:57



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

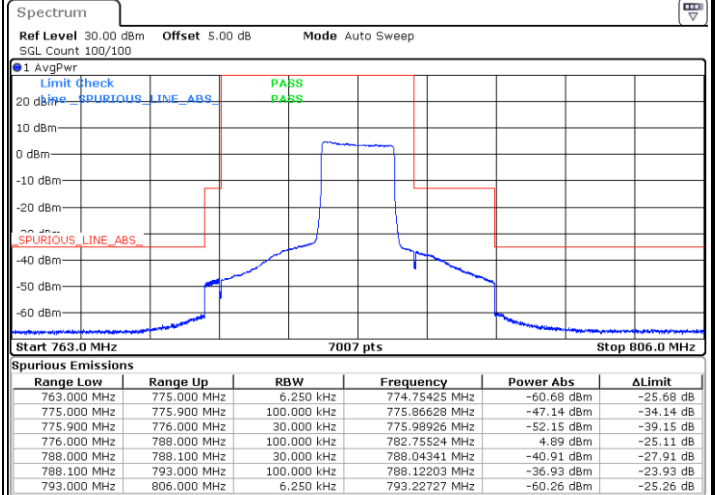
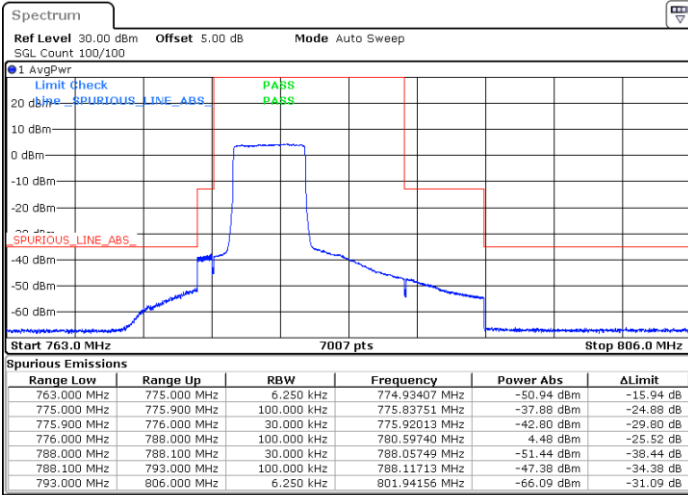


Date: 14.MAY.2024 16:57:41

Date: 14.MAY.2024 17:13:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAY.2024 17:03:13

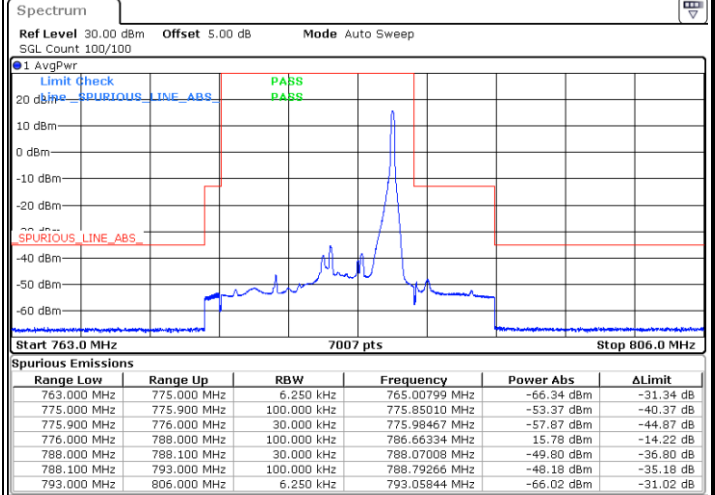
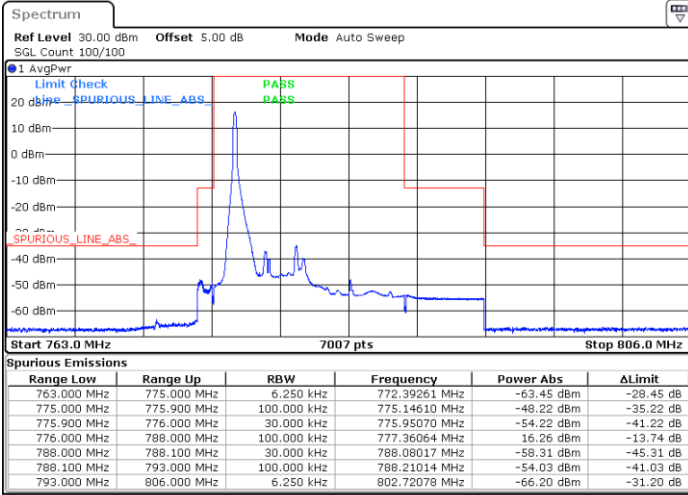
Date: 14.MAY.2024 17:19:20



LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

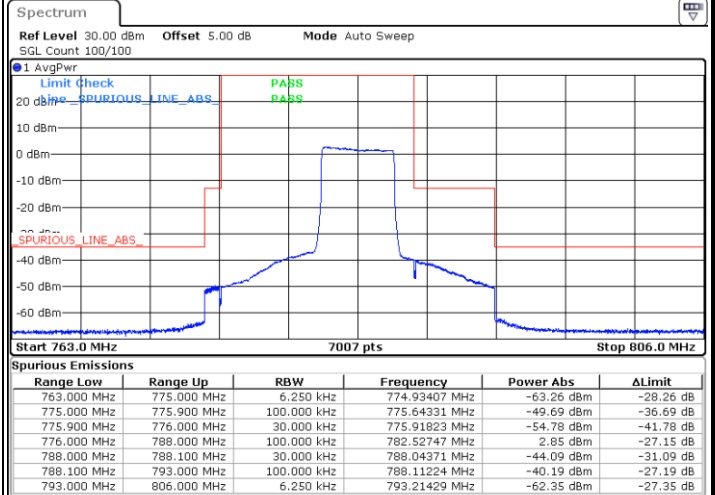
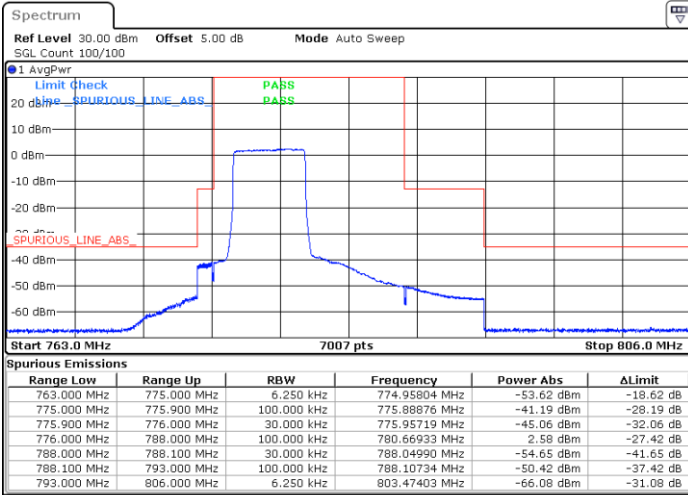


Date: 14.MAY.2024 16:59:05

Date: 14.MAY.2024 17:15:11

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAY.2024 17:04:36

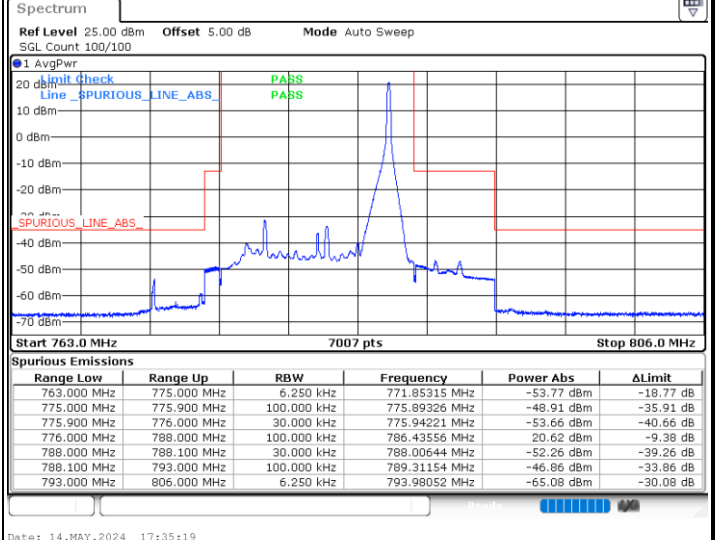
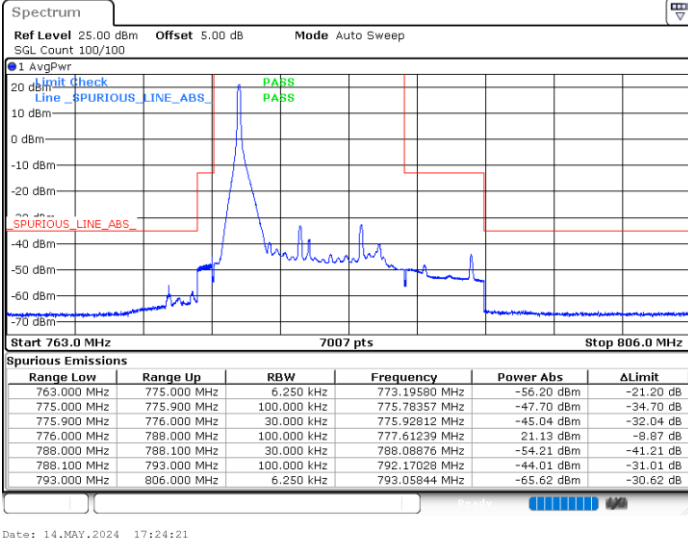
Date: 14.MAY.2024 17:20:43



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

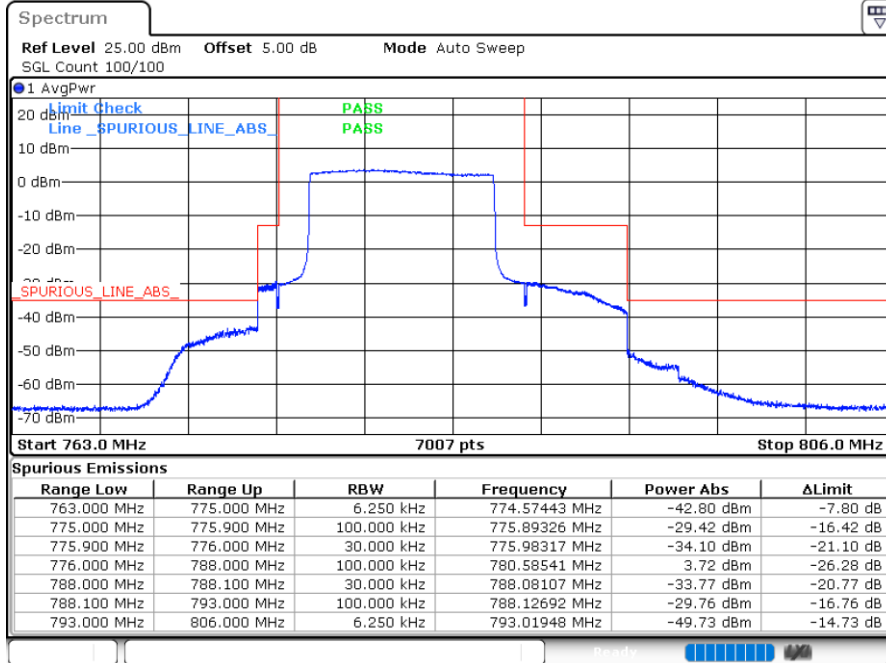
middle Band Edge / 1 RB



Date: 14.MAY.2024 17:24:21

Date: 14.MAY.2024 17:35:19

Middle Band Edge / Full RB



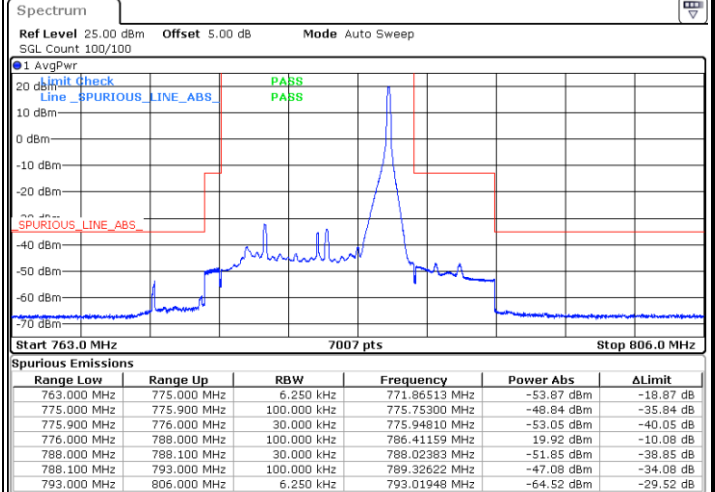
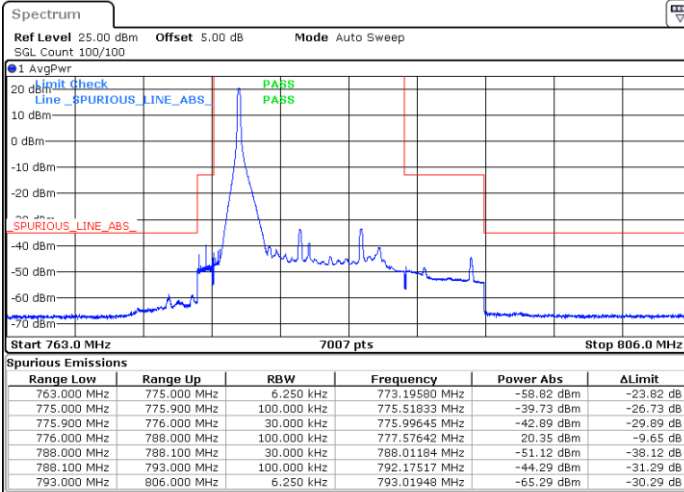
Date: 14.MAY.2024 17:29:50



LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB

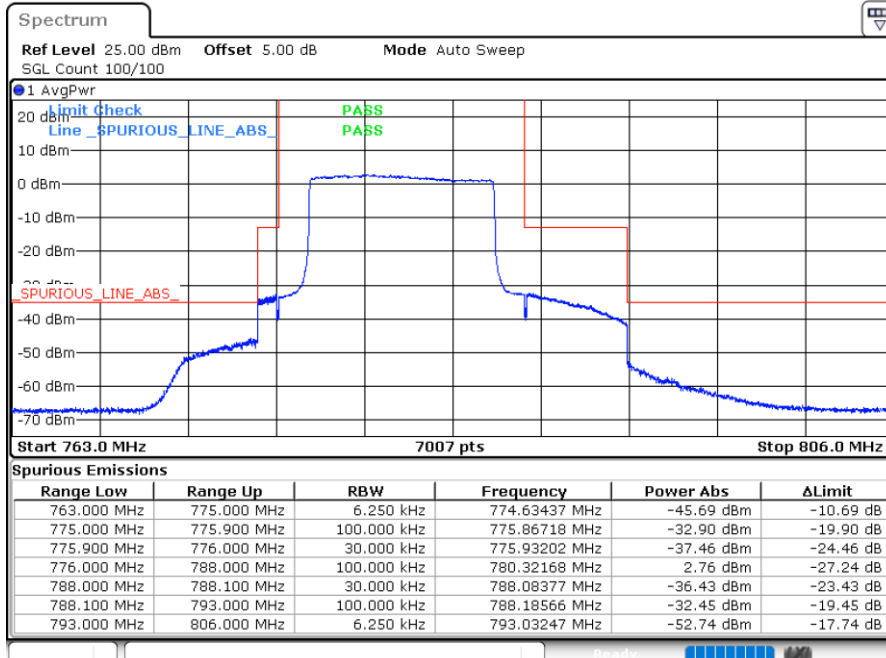
middle Band Edge / 1 RB



Date: 14.MAY.2024 17:25:43

Date: 14.MAY.2024 17:36:41

middle Band Edge / Full RB



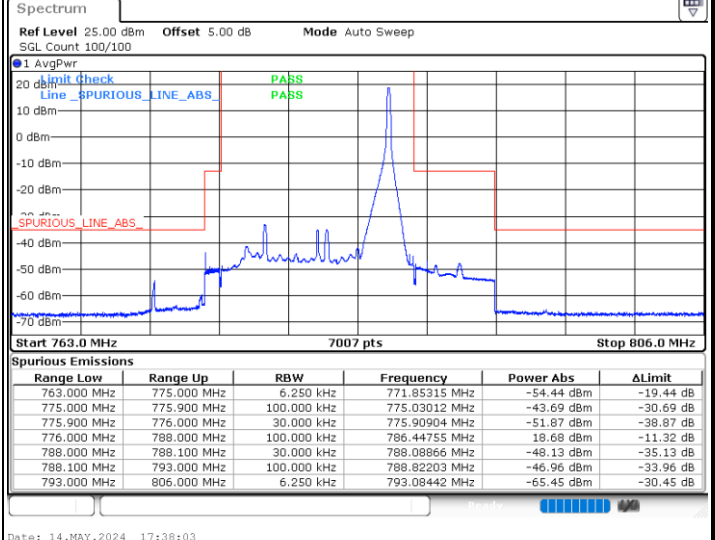
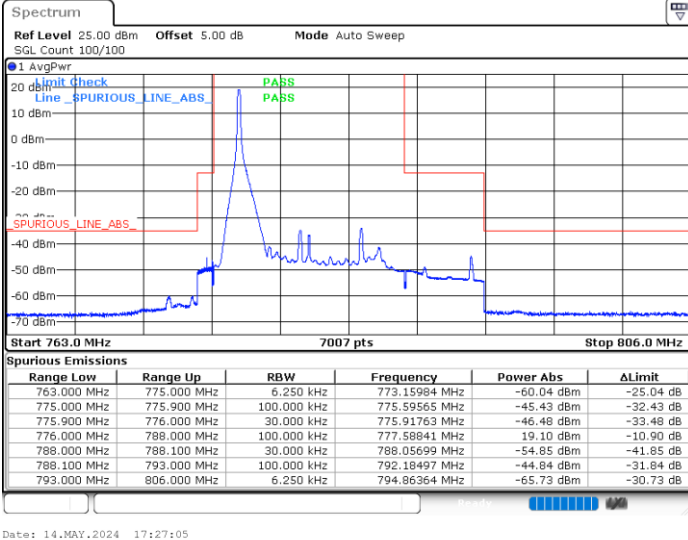
Date: 14.MAY.2024 17:31:12



LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB

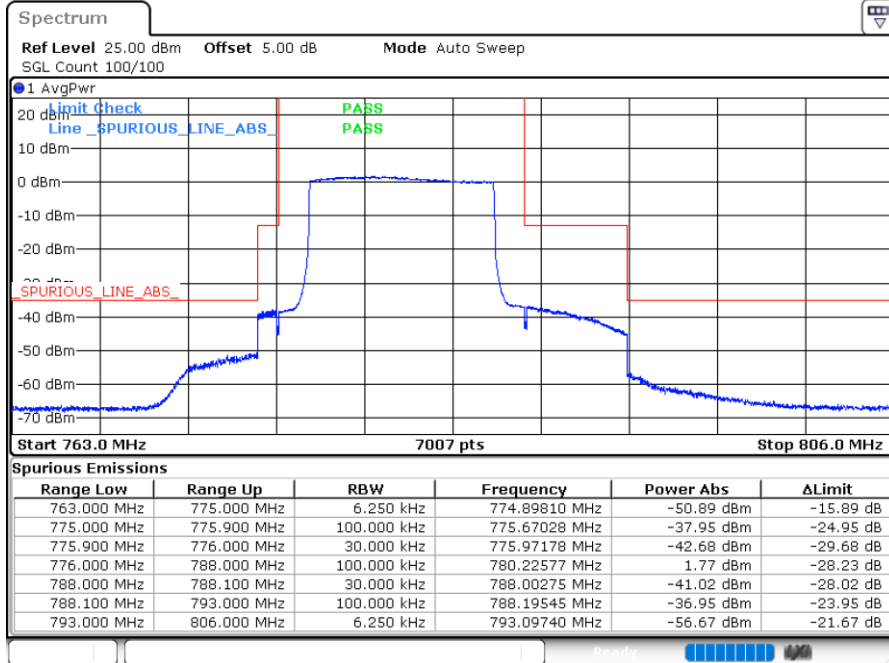
middle Band Edge / 1 RB



Date: 14.MAY.2024 17:27:05

Date: 14.MAY.2024 17:38:03

middle Band Edge / Full RB



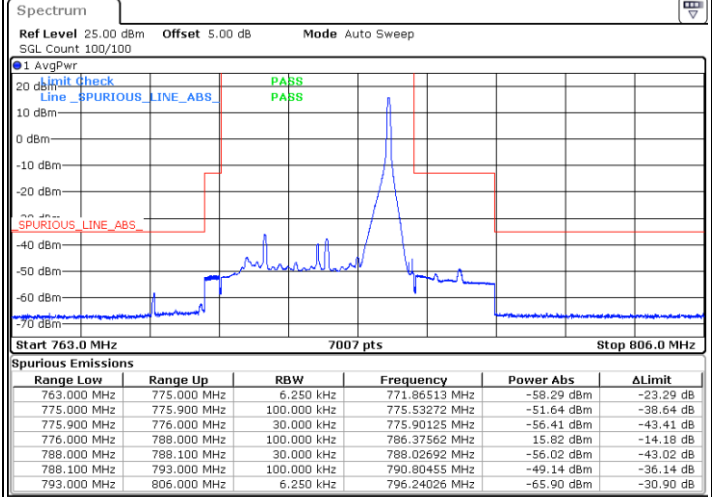
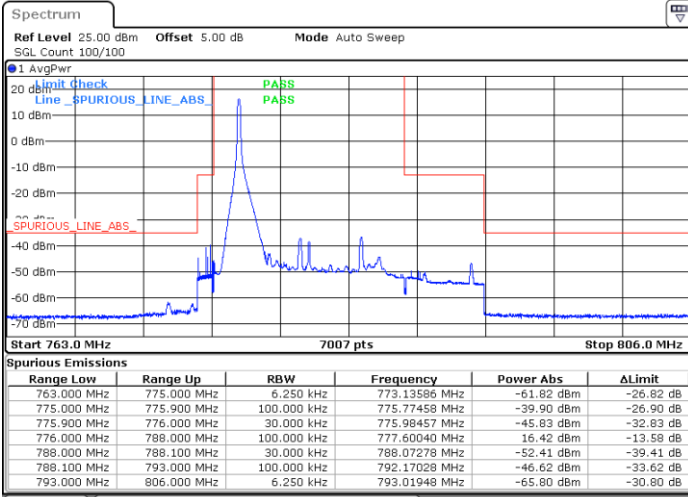
Date: 14.MAY.2024 17:32:34



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

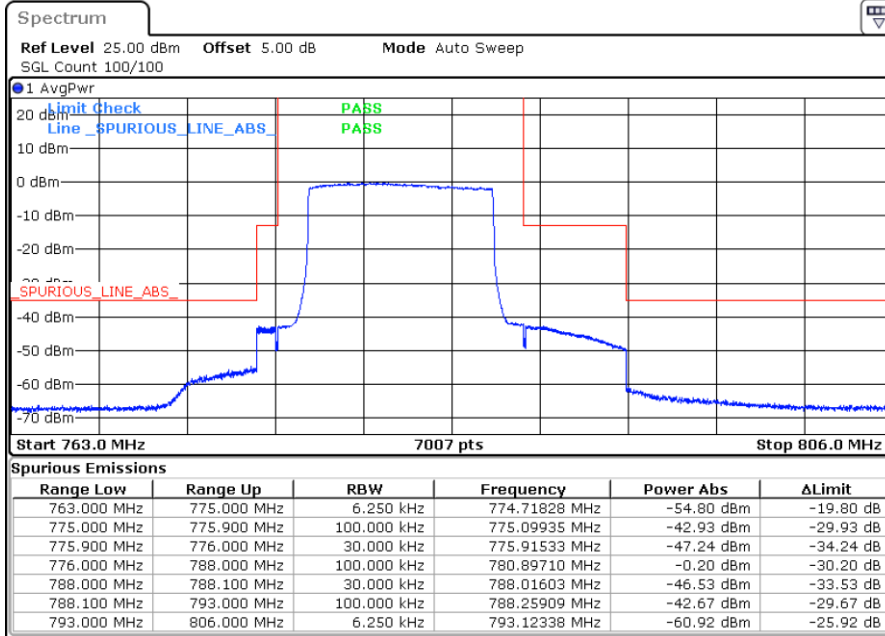
middle Band Edge / 1 RB



Date: 14.MAY.2024 17:28:28

Date: 14.MAY.2024 17:39:26

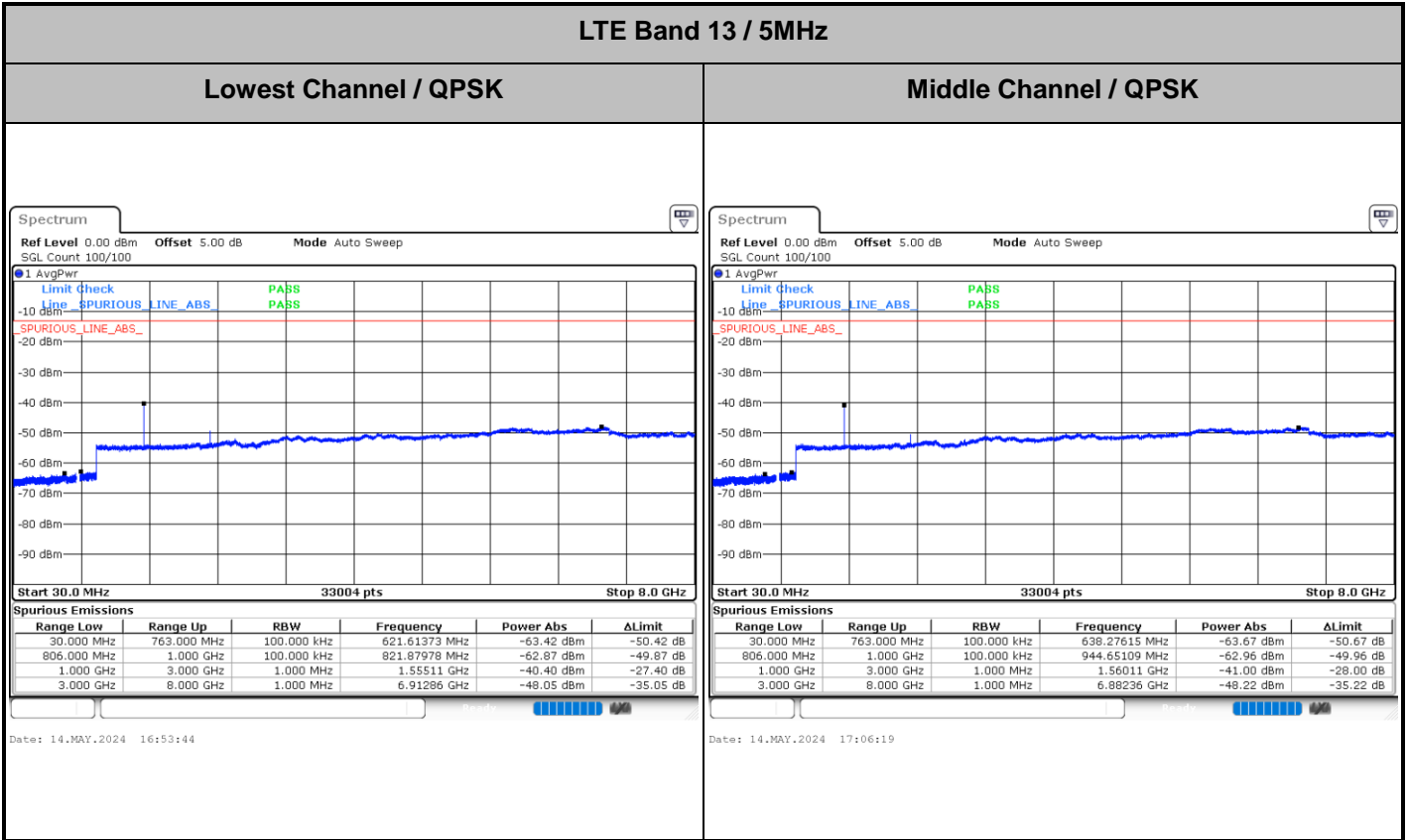
middle Band Edge / Full RB



Date: 14.MAY.2024 17:33:56



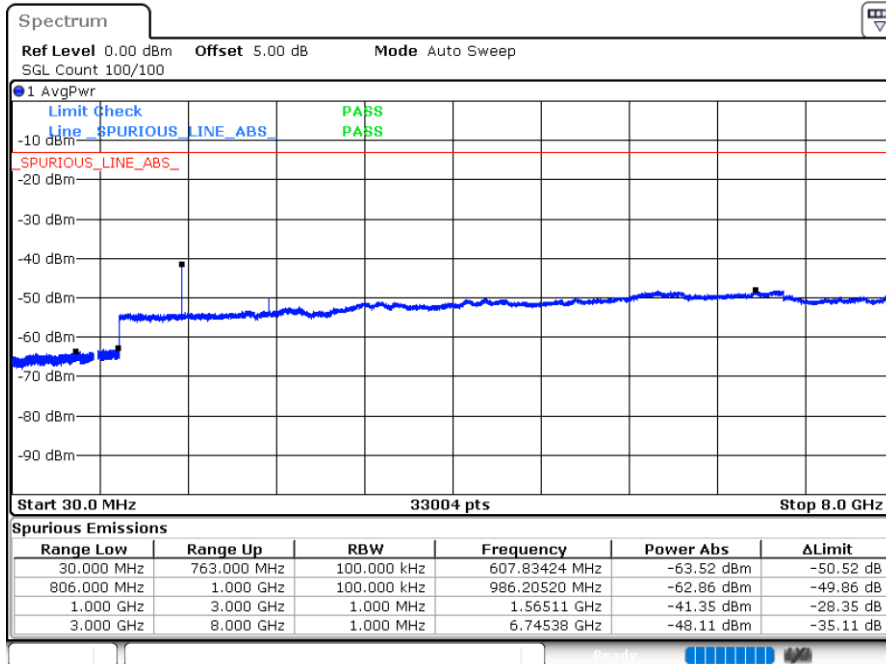
# Conducted Spurious Emission







Highest Channel / QPSK

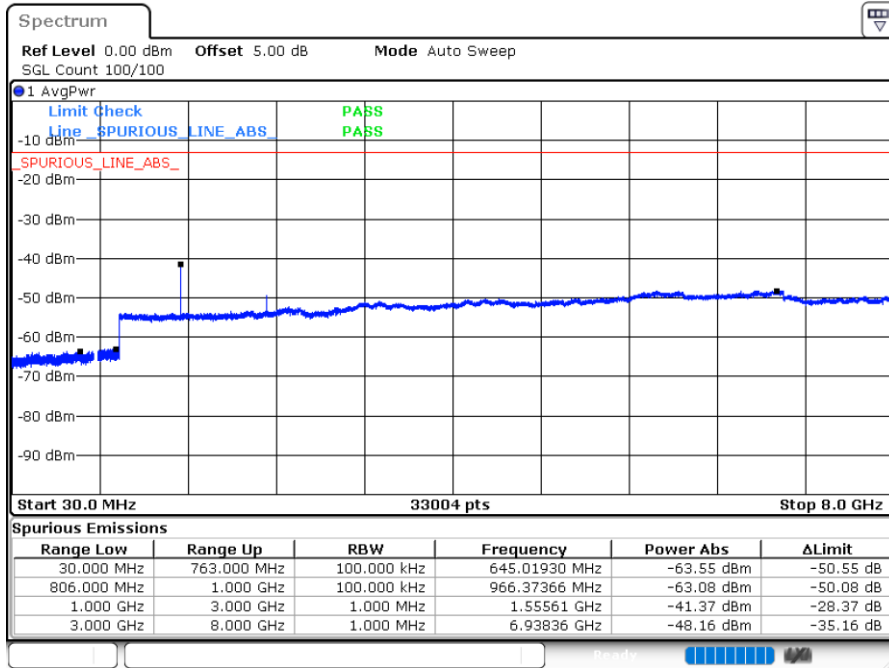


Date: 14.MAY.2024 17:09:26



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 14.MAY.2024 17:23:13



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	0.0025	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0053	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0034	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0027	

Note:

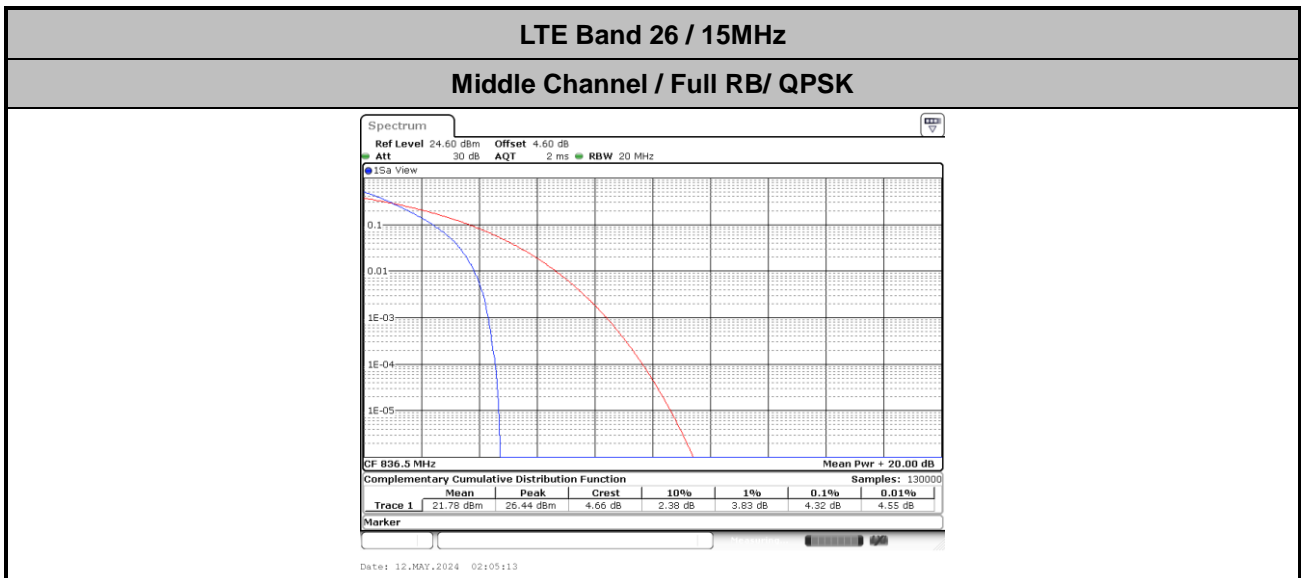
1. Normal Voltage =3.89V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 26

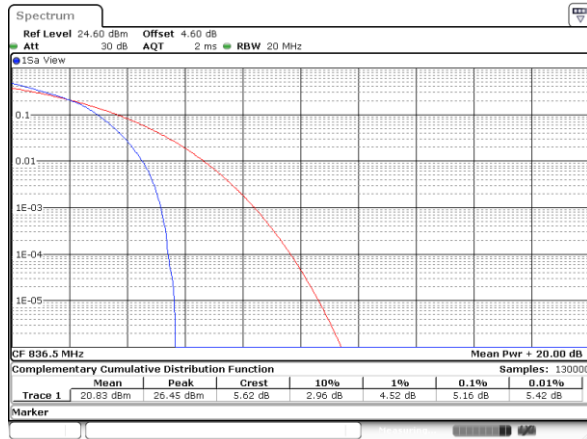
## Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.32	5.16	5.68	PASS
Mode	LTE Band 26 / 15MHz			
Mod.	256QAM			Limit: 13dB
RB Size	Full RB			Result
Middle CH	6.58			PASS



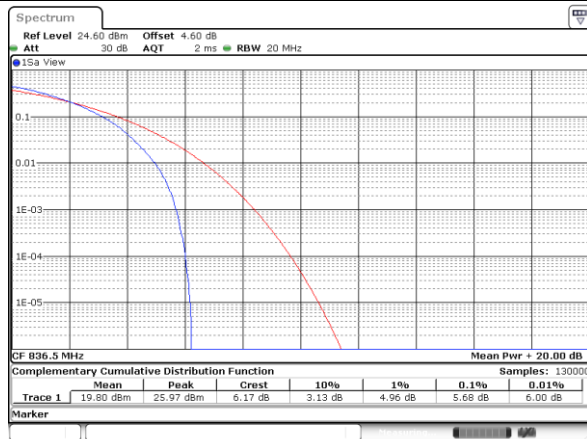


Middle Channel / Full RB/ 16QAM



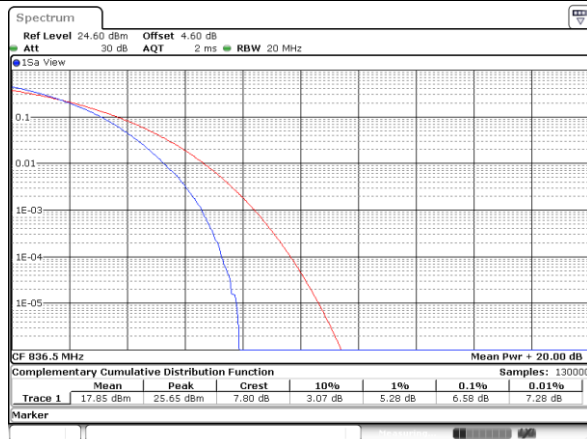
Date: 12.MAY.2024 02:05:37

Middle Channel / Full RB/ 64QAM



Date: 12.MAY.2024 02:06:00

Middle Channel / Full RB/256QAM

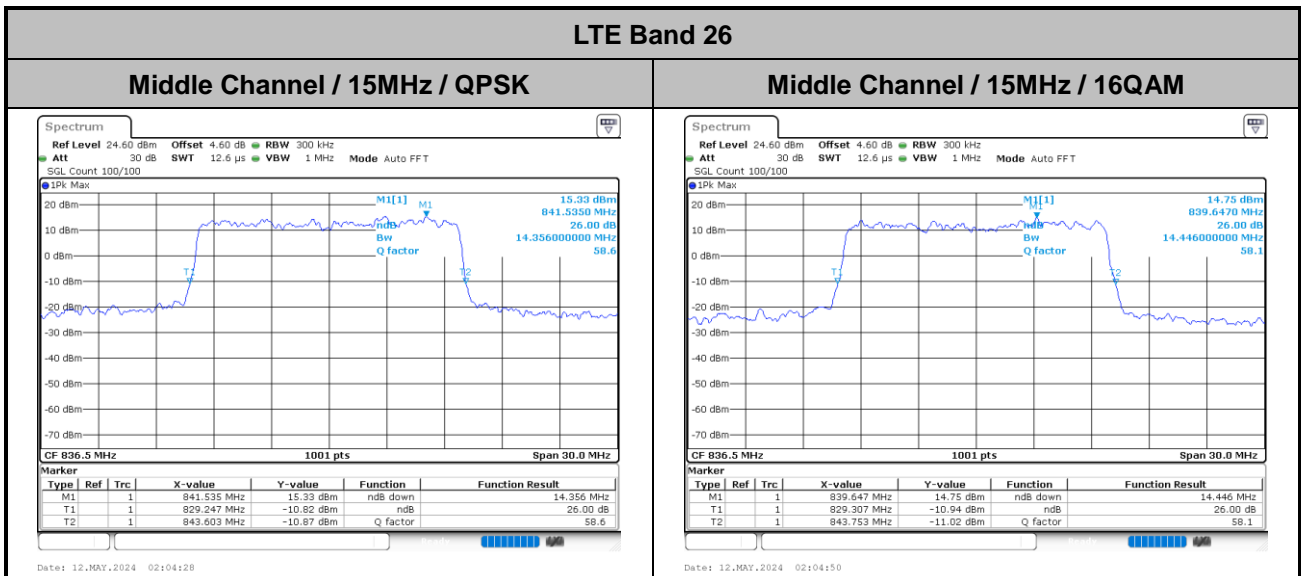


Date: 12.MAY.2024 02:06:24



**26dB Bandwidth**

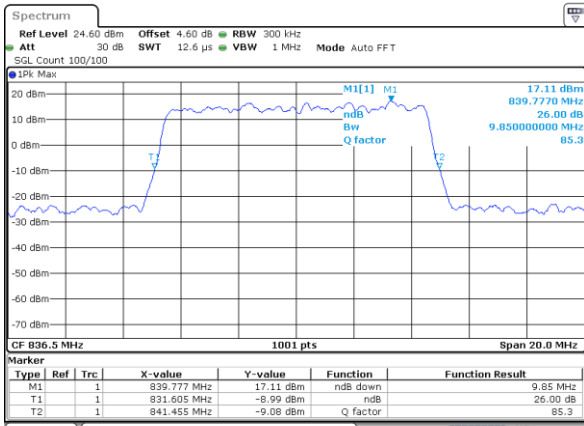
Mode	LTE Band 26 : 26dB BW(MHz)	
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	14.36	14.45
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.85	9.77
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.85	4.99
<b>BW</b>	<b>3MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	3.00	3.00
<b>BW</b>	<b>1.4MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	1.28	1.32





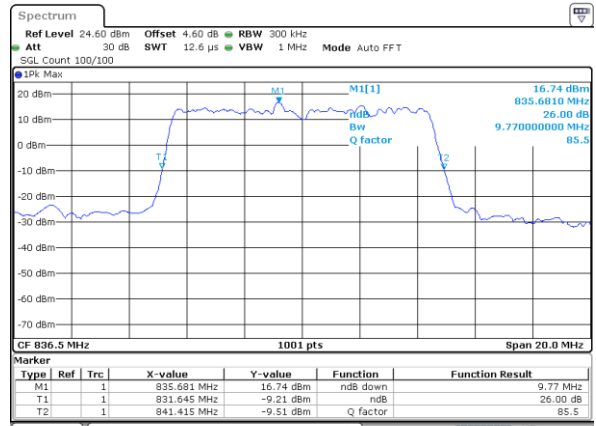
LTE Band 26

Middle Channel / 10MHz / QPSK



Date: 12.MAY.2024 02:09:06

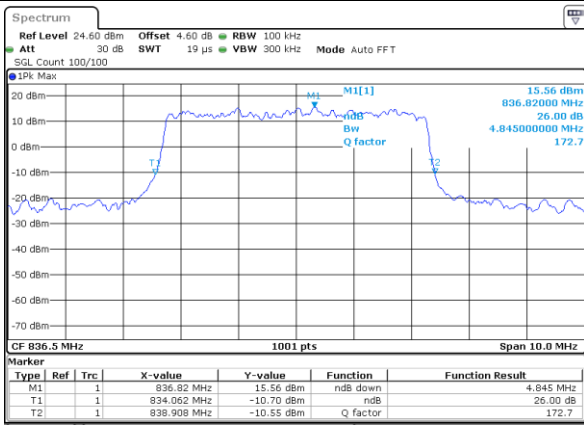
Middle Channel / 10MHz / 16QAM



Date: 12.MAY.2024 02:09:28

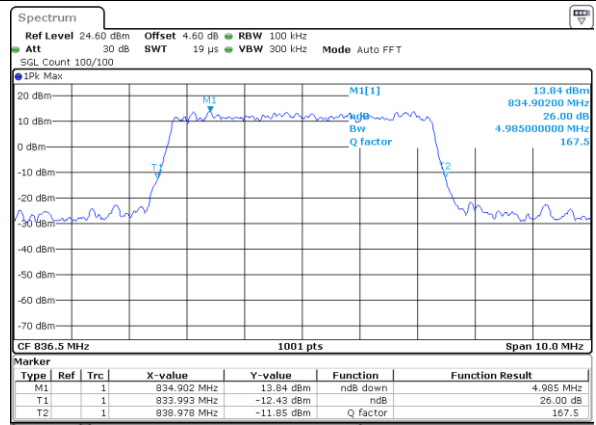
LTE Band 26

Middle Channel / 5MHz / QPSK



Date: 12.MAY.2024 02:10:35

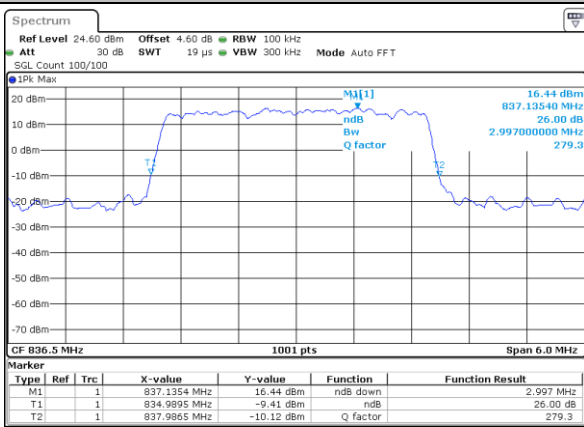
Middle Channel / 5MHz / 16QAM



Date: 12.MAY.2024 02:10:57

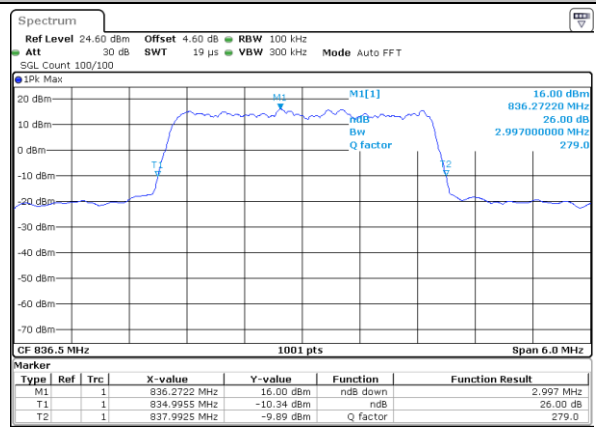
LTE Band 26

Middle Channel / 3MHz / QPSK



Date: 12.MAY.2024 02:12:04

Middle Channel / 3MHz / 16QAM

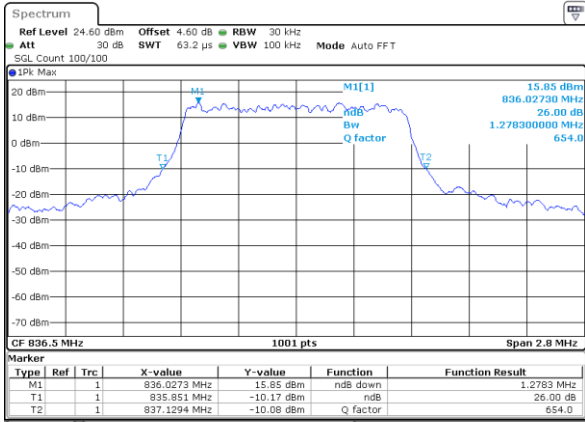


Date: 12.MAY.2024 02:12:26



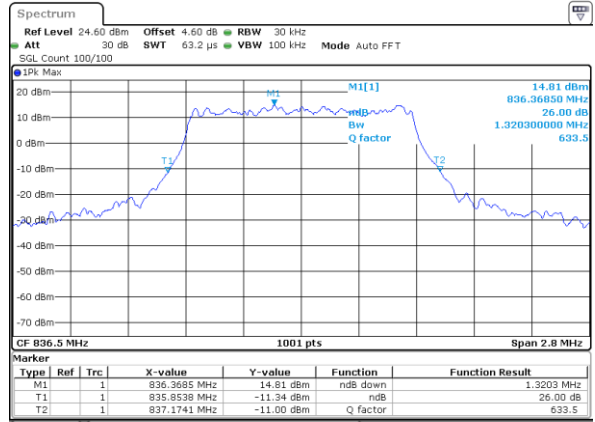
LTE Band 26

Middle Channel / 1.4MHz / QPSK



Date: 12.MAY.2024 02:13:33

Middle Channel / 1.4MHz / 16QAM



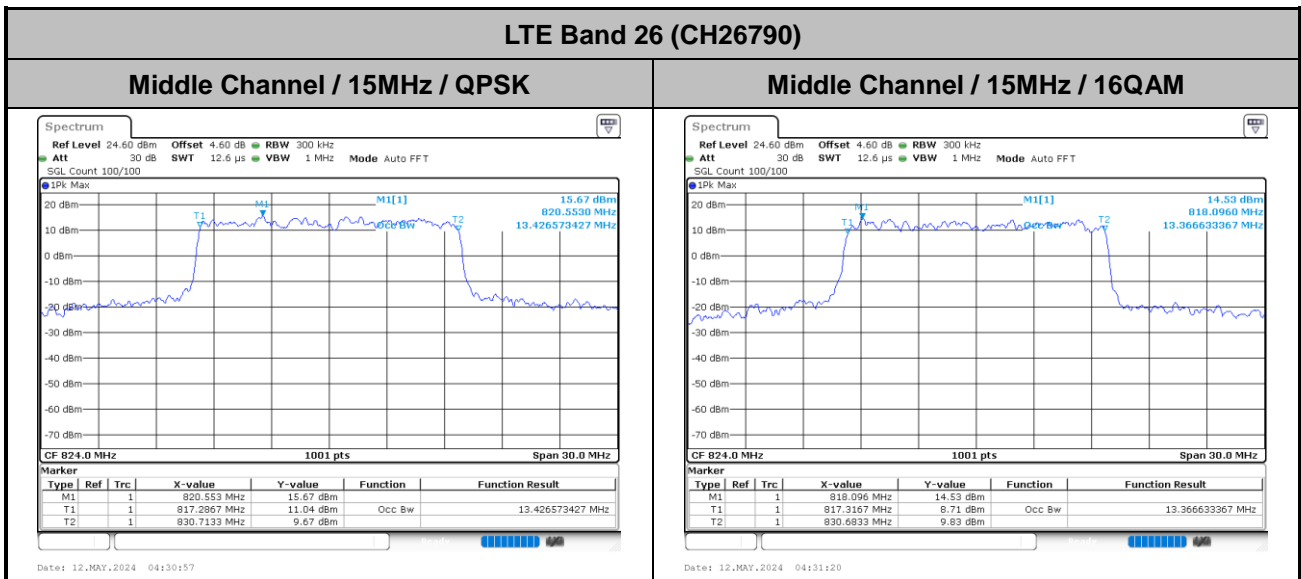
Date: 12.MAY.2024 02:13:54





# Occupied Bandwidth

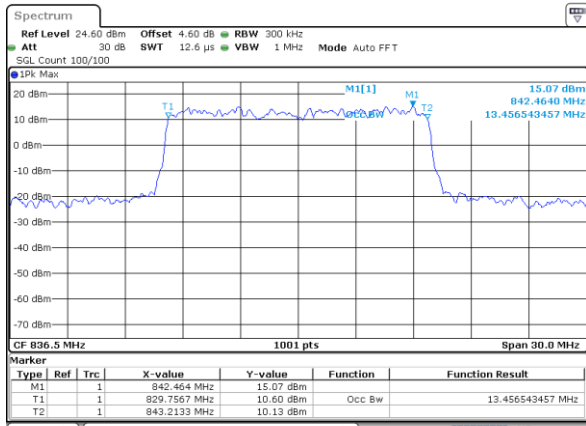
Mode	LTE Band 26 : 99%OBW(MHz)	
<b>BW</b>	<b>15MHz(CH26790)</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>HigCH</b>	13.43	13.37
<b>BW</b>	<b>15MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	13.46	13.46
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.07	9.05
<b>BW</b>	<b>5MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	4.48	4.49
<b>BW</b>	<b>3MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	2.71	2.70
<b>BW</b>	<b>1.4MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	1.09	1.10





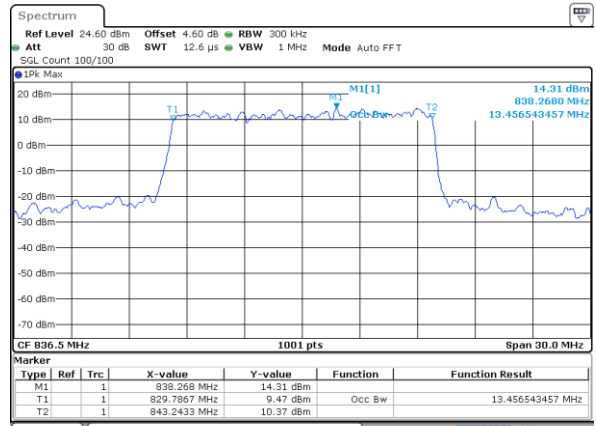
LTE Band 26

Middle Channel / 15MHz / QPSK



Date: 12.MAY.2024 02:03:44

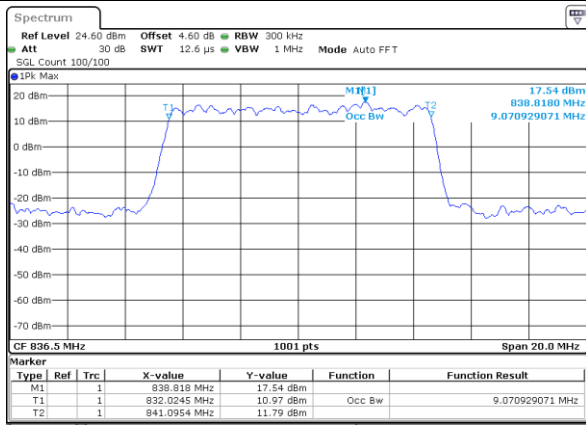
Middle Channel / 15MHz / 16QAM



Date: 12.MAY.2024 02:04:06

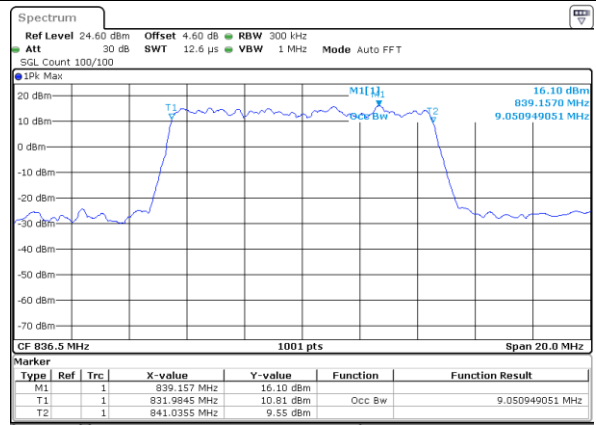
LTE Band 26

Middle Channel / 10MHz / QPSK



Date: 12.MAY.2024 02:08:45

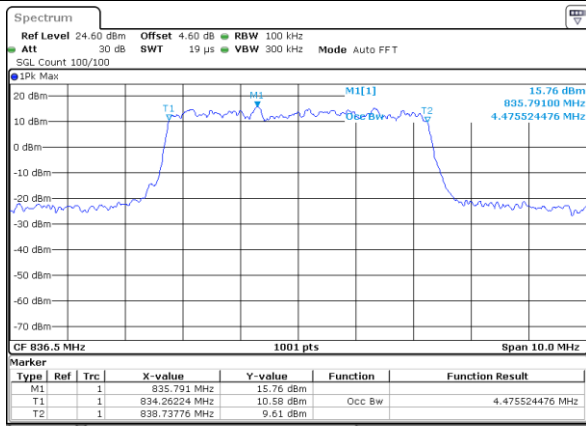
Middle Channel / 10MHz / 16QAM



Date: 12.MAY.2024 02:09:49

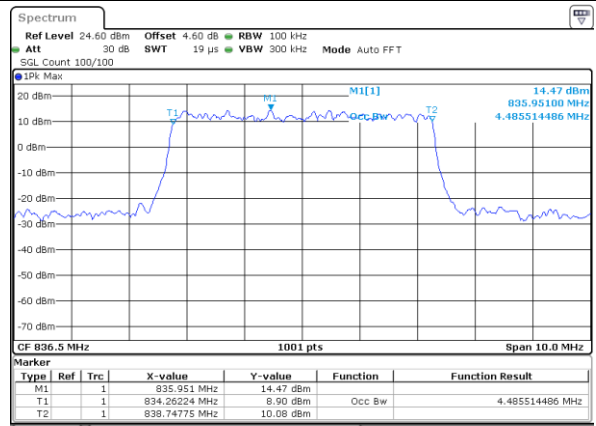
LTE Band 26

Middle Channel / 5MHz / QPSK



Date: 12.MAY.2024 02:10:13

Middle Channel / 5MHz / 16QAM



Date: 12.MAY.2024 02:11:19