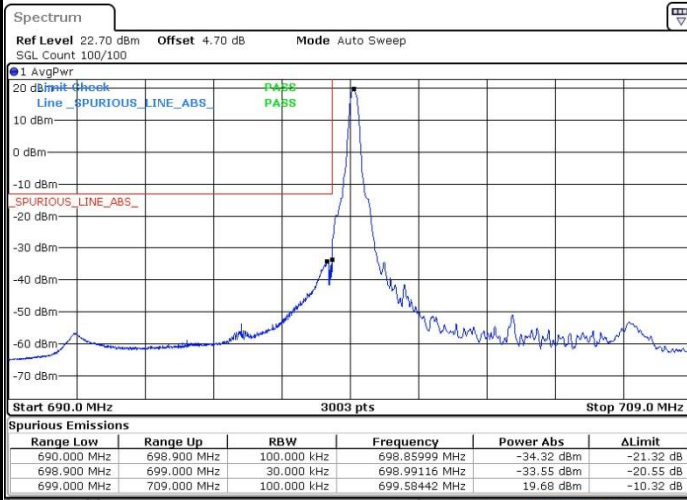




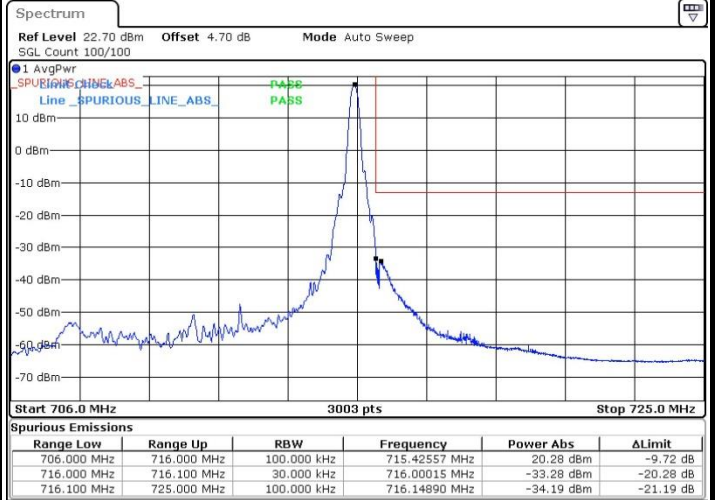
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



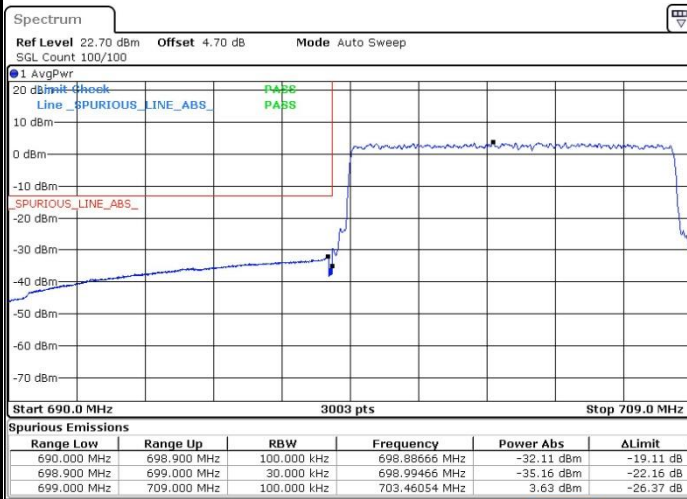
Date: 26.OCT.2021 21:43:53

Highest Band Edge / 1 RB



Date: 26.OCT.2021 21:45:50

Lowest Band Edge / Full RB



Date: 26.OCT.2021 21:42:55

Highest Band Edge / Full RB



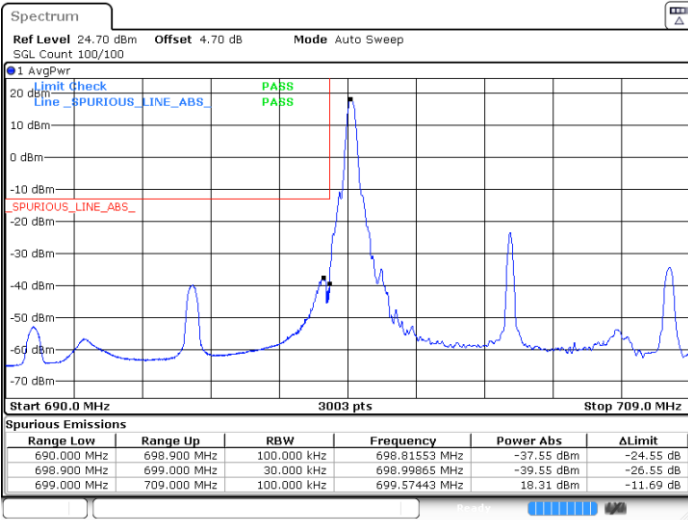
Date: 26.OCT.2021 21:44:52



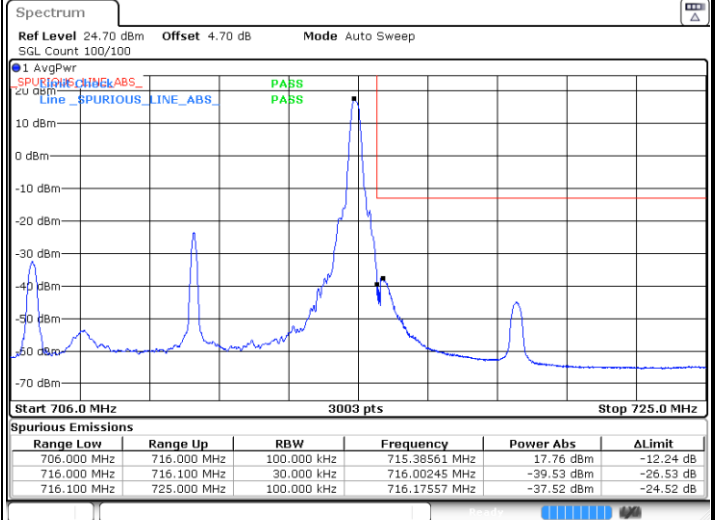
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



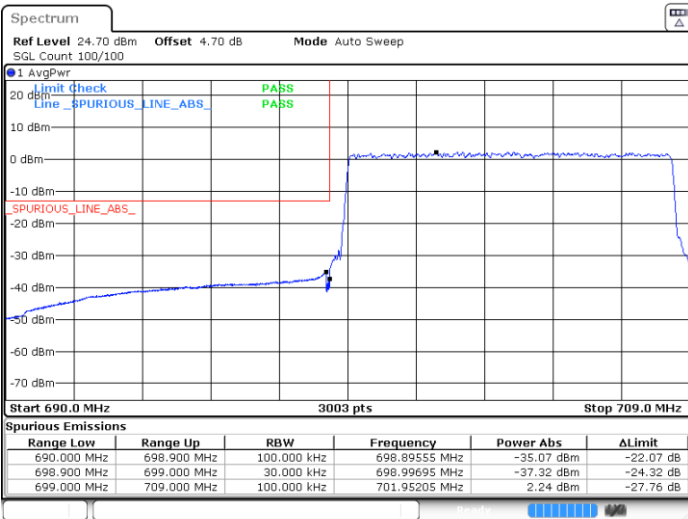
Date: 16 NOV 2021 20:30:00



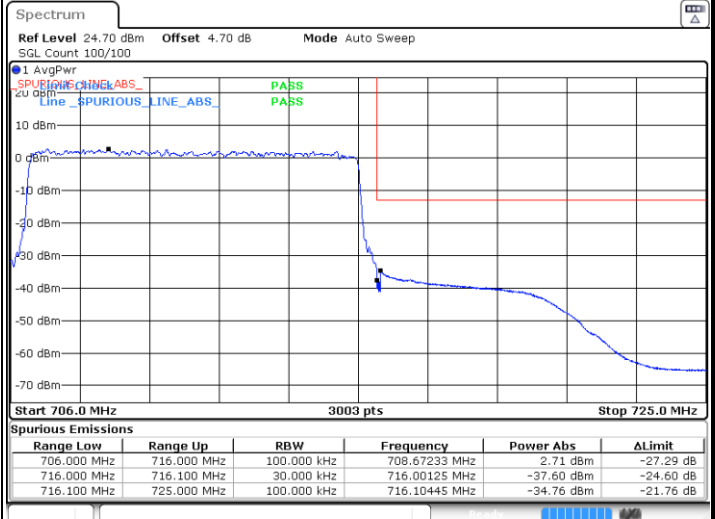
Date: 16 NOV 2021 20:31:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



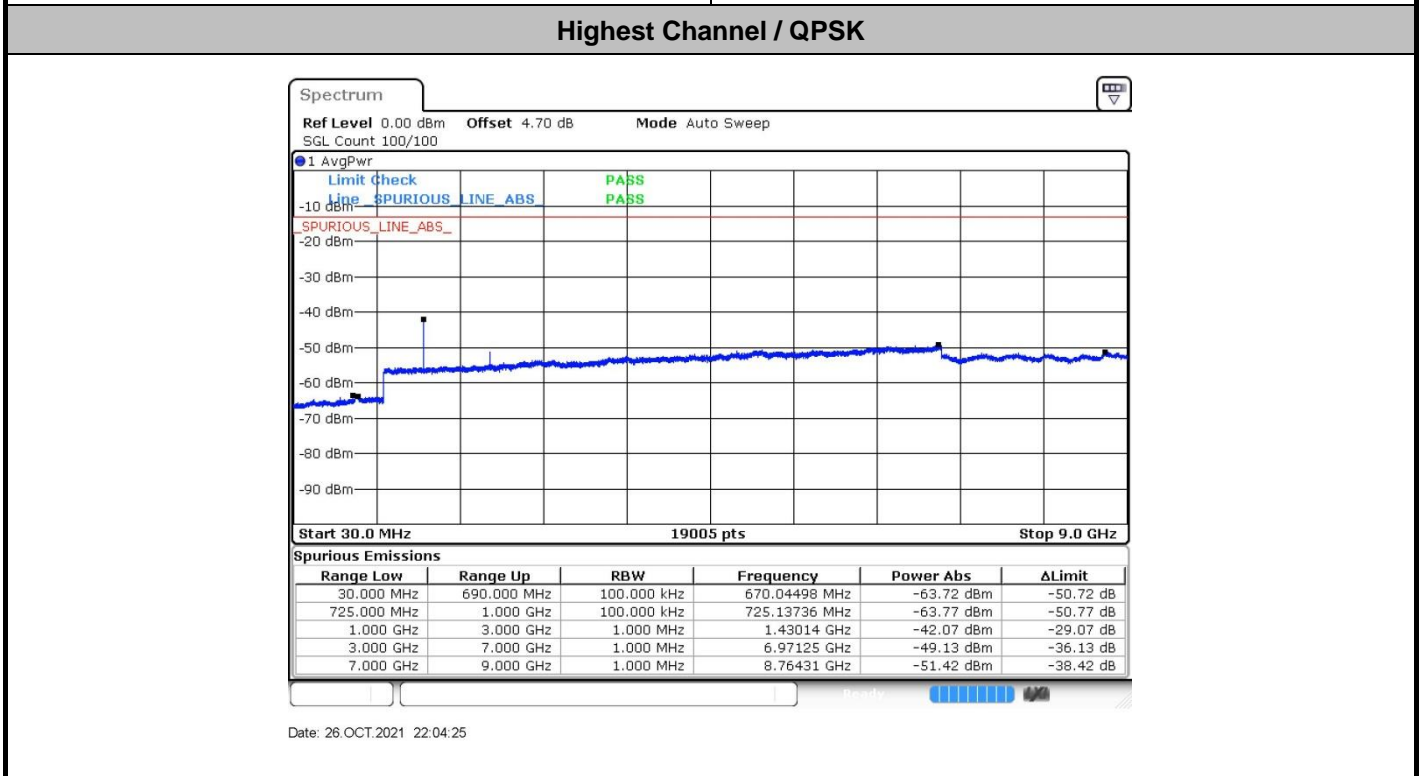
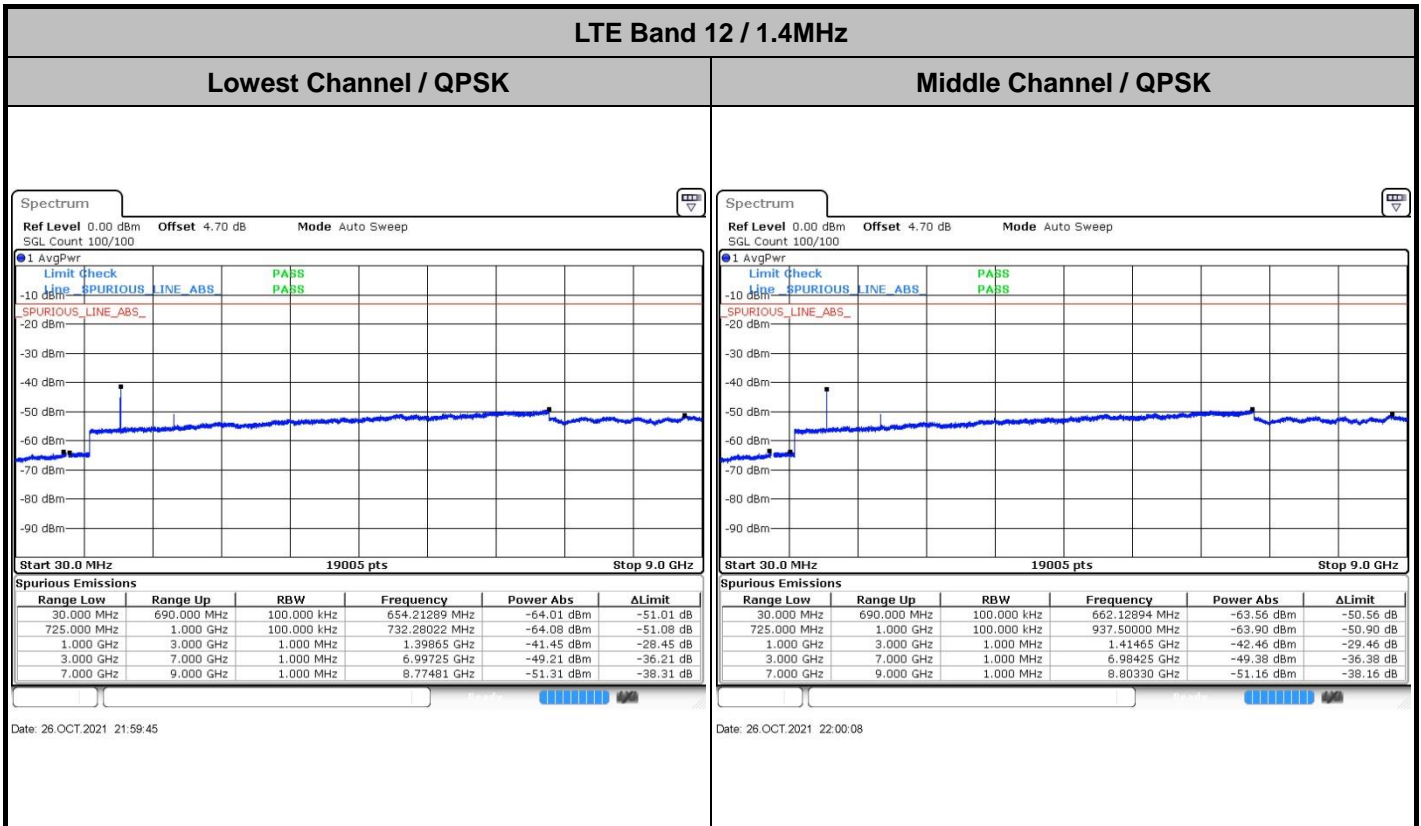
Date: 16 NOV 2021 20:29:13



Date: 16 NOV 2021 20:31:49



# Conducted Spurious Emission

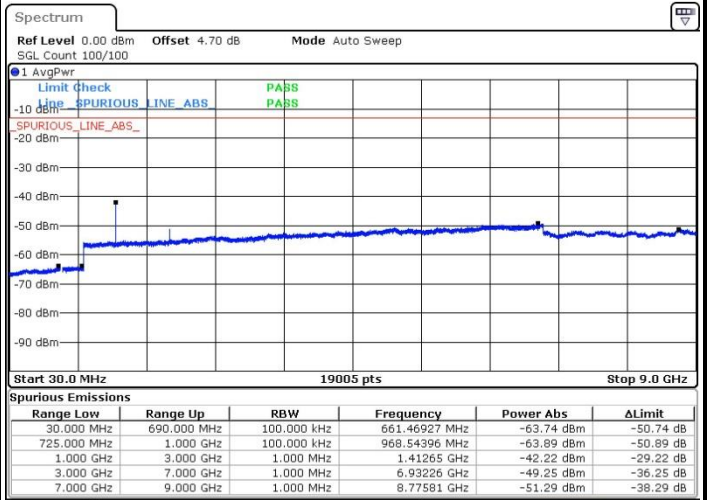
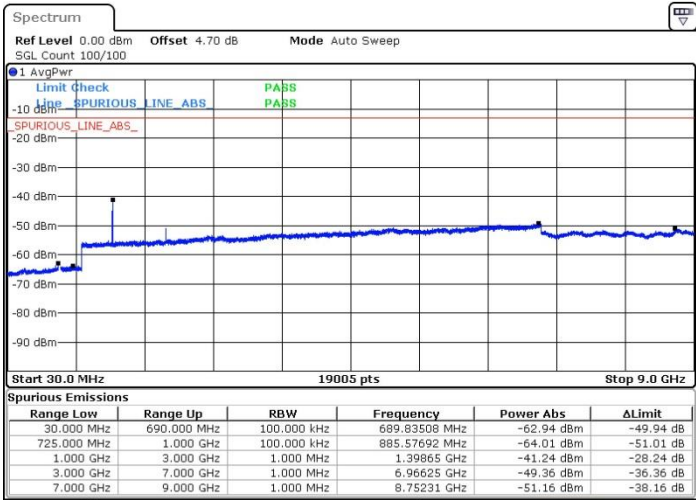




LTE Band 12 / 3MHz

Lowest Channel / QPSK

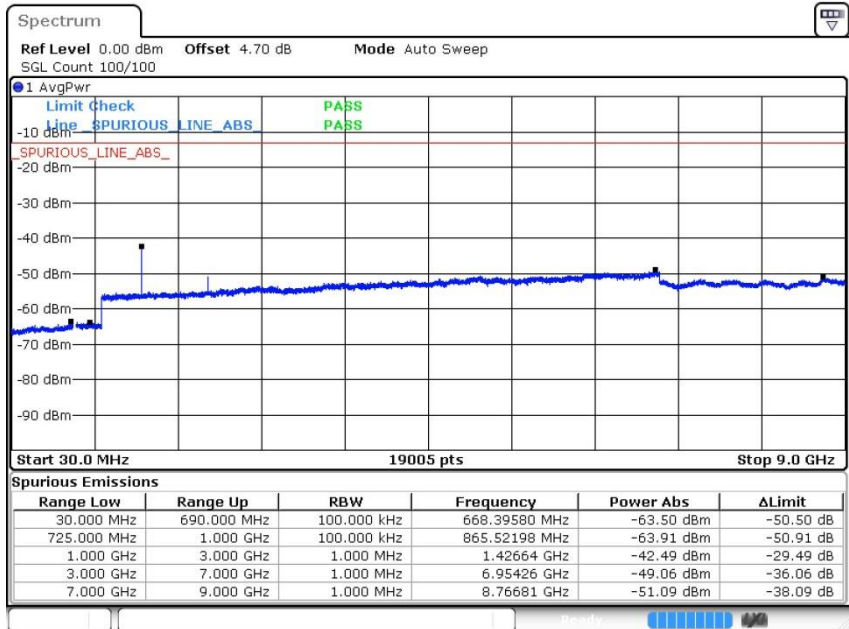
Middle Channel / QPSK



Date: 26.OCT.2021 21:07:30

Date: 26.OCT.2021 21:07:53

Highest Channel / QPSK



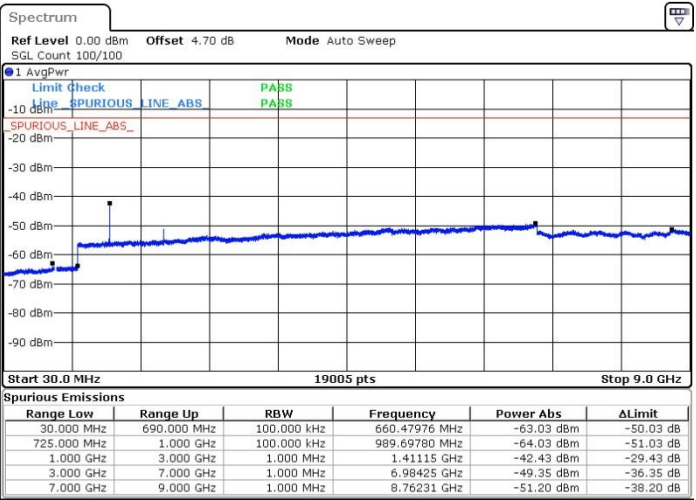
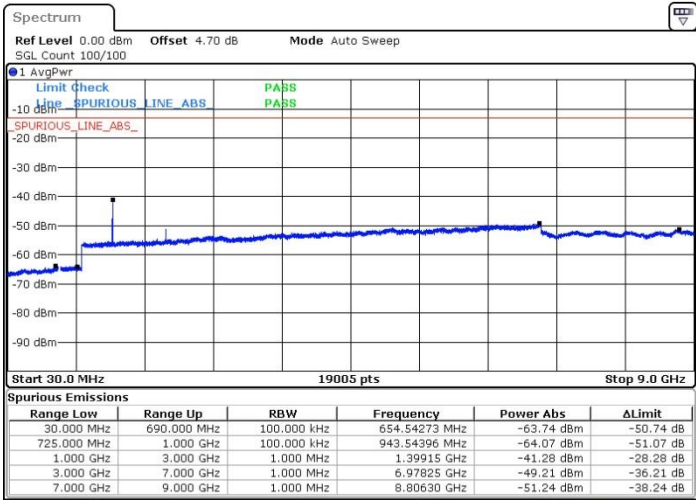
Date: 26.OCT.2021 21:12:10



LTE Band 12 / 5MHz

Lowest Channel / QPSK

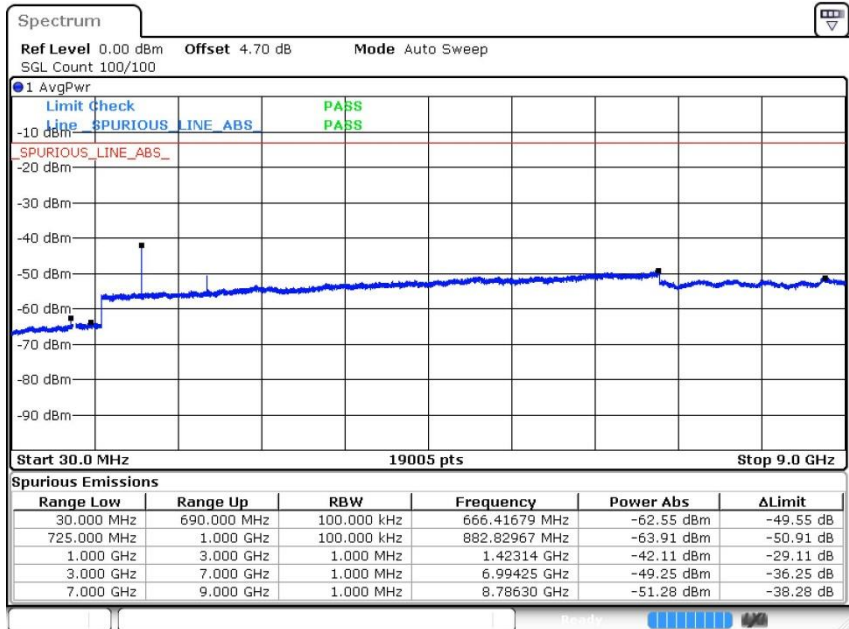
Middle Channel / QPSK



Date: 26.OCT.2021 21:24:42

Date: 26.OCT.2021 21:25:05

Highest Channel / QPSK



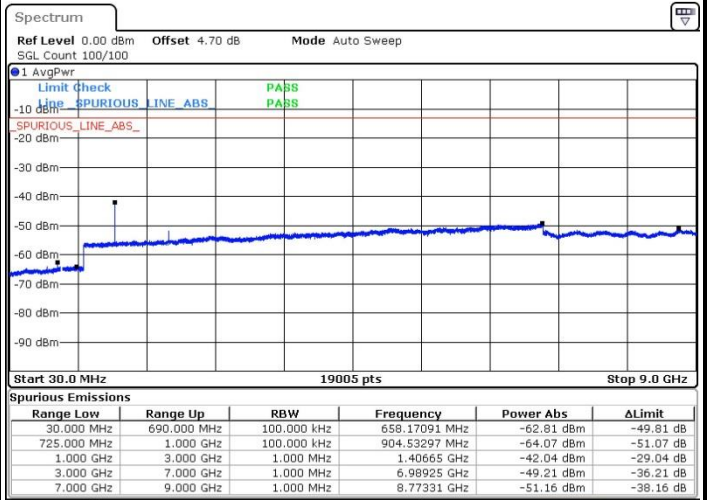
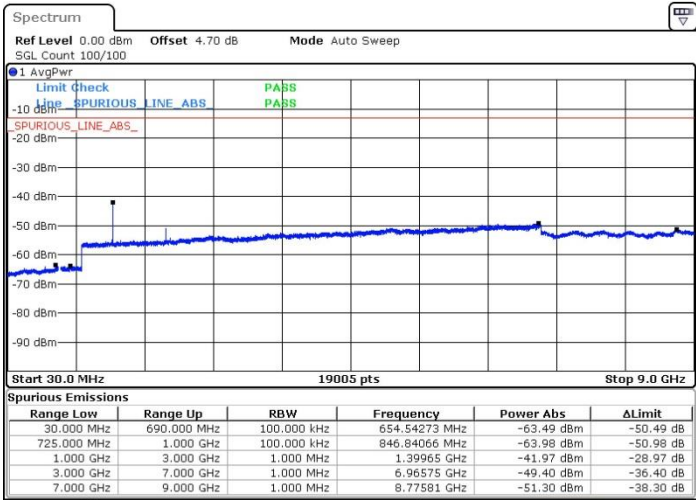
Date: 26.OCT.2021 21:29:22



LTE Band 12 / 10MHz

Lowest Channel / QPSK

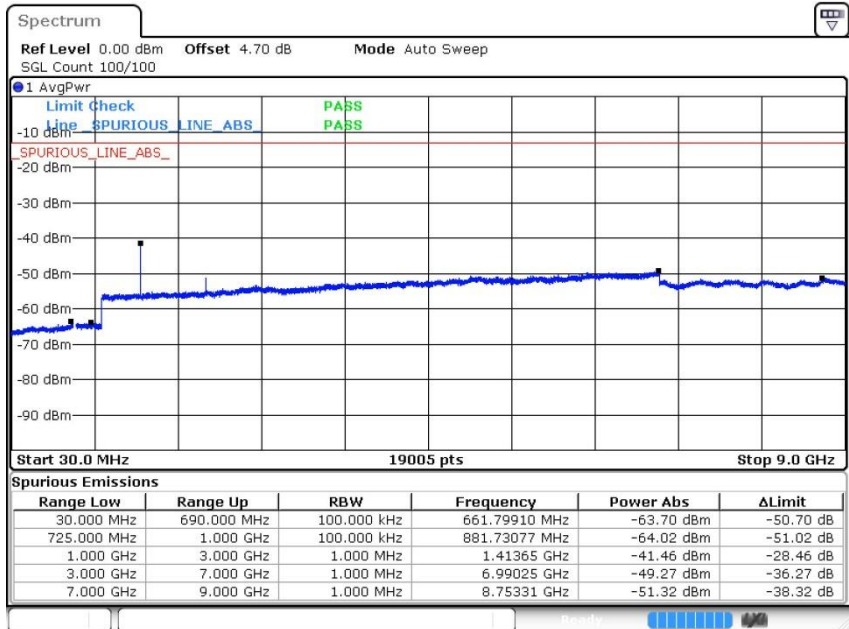
Middle Channel / QPSK



Date: 26.OCT.2021 21:34:36

Date: 26.OCT.2021 21:35:43

Highest Channel / QPSK



Date: 26.OCT.2021 21:41:55



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	0.0018	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

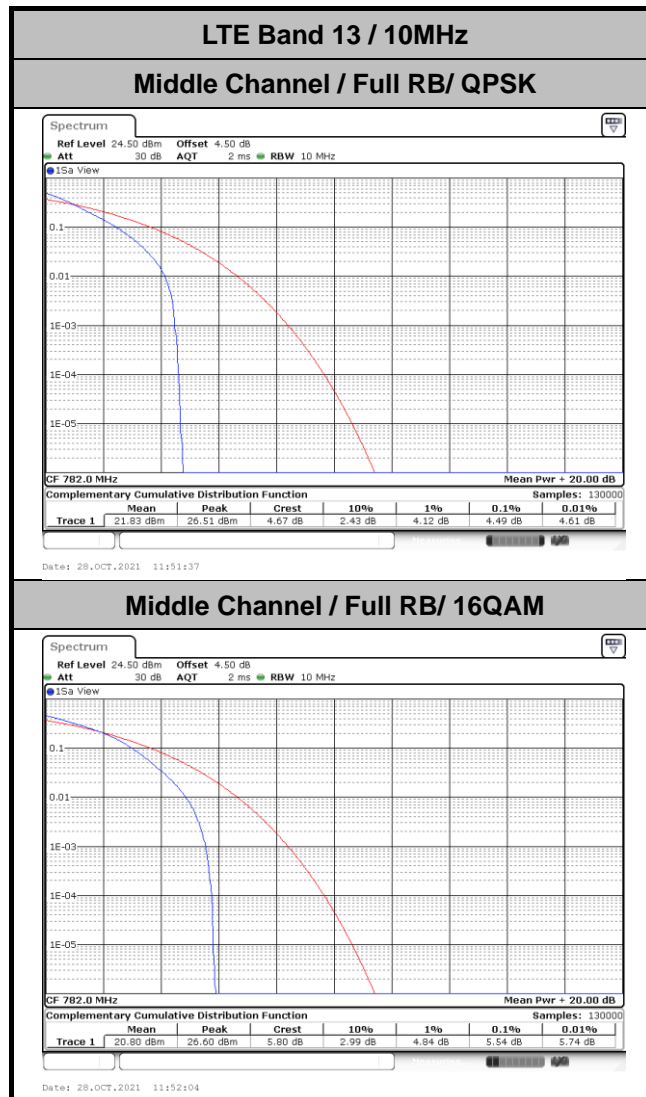
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



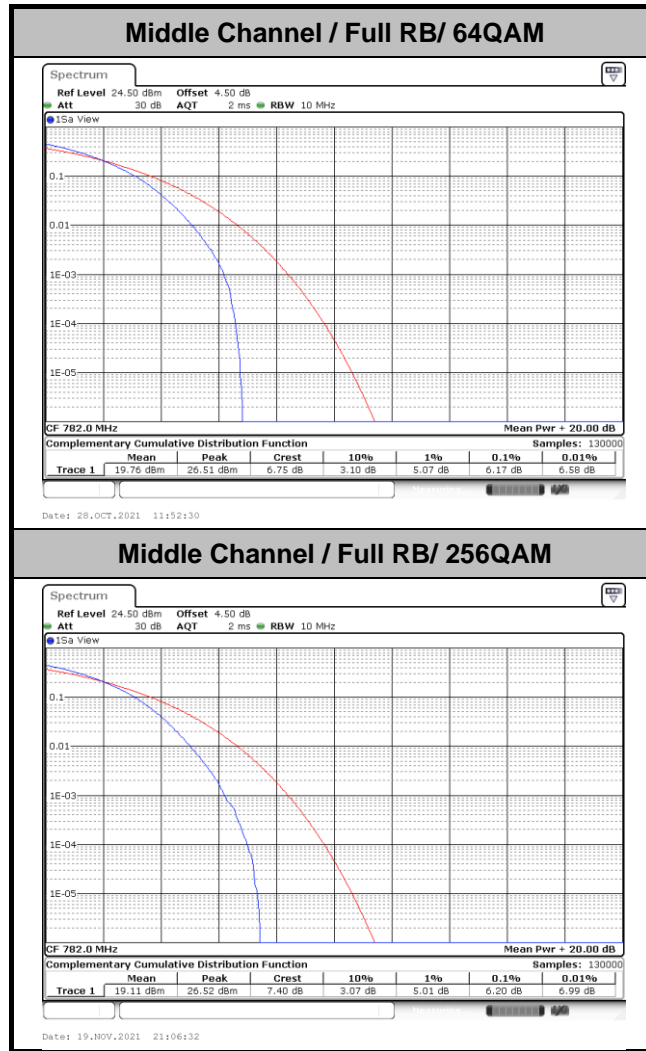
# LTE Band 13

## 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	4.49	5.54	6.17	6.20	PASS



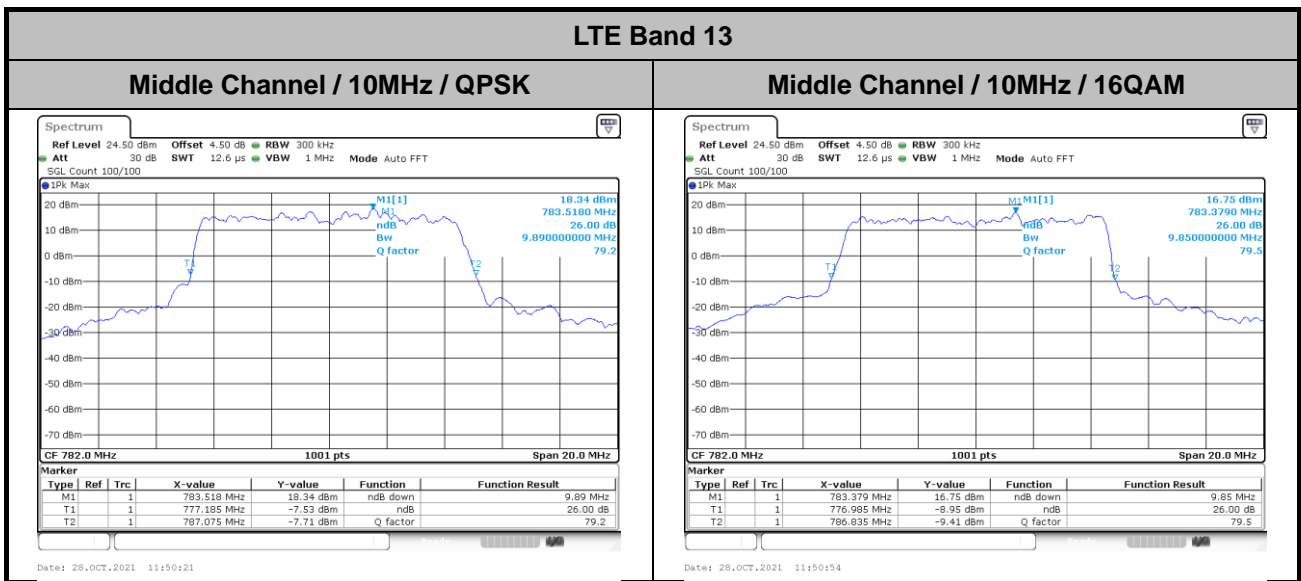






## 26dB Bandwidth

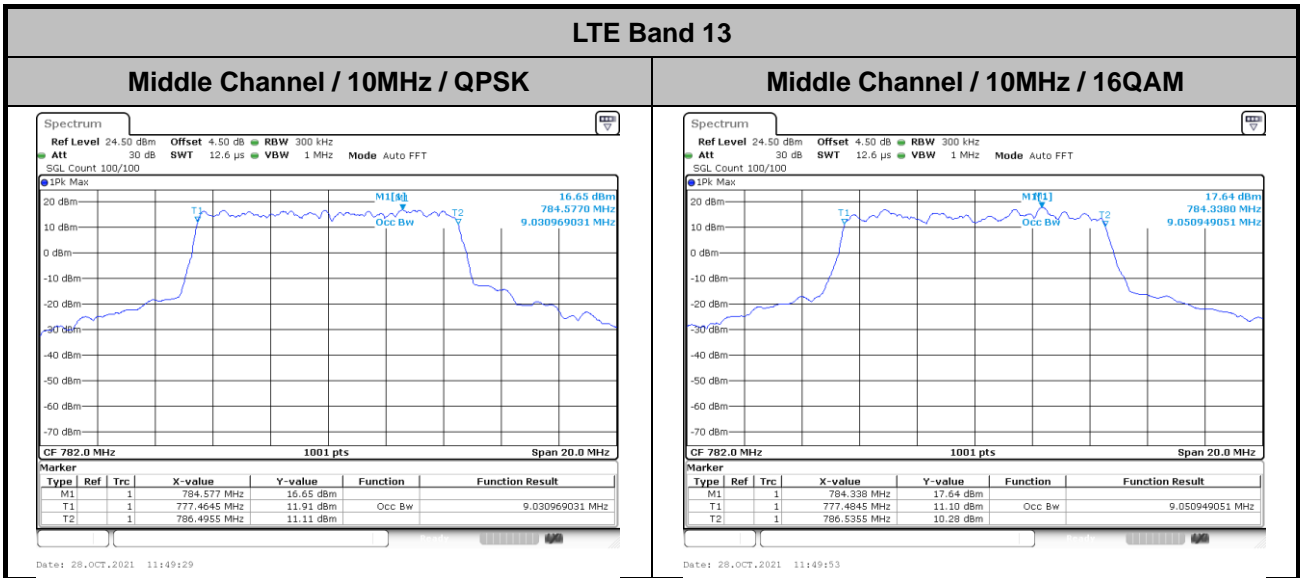
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	9.85





# Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.05

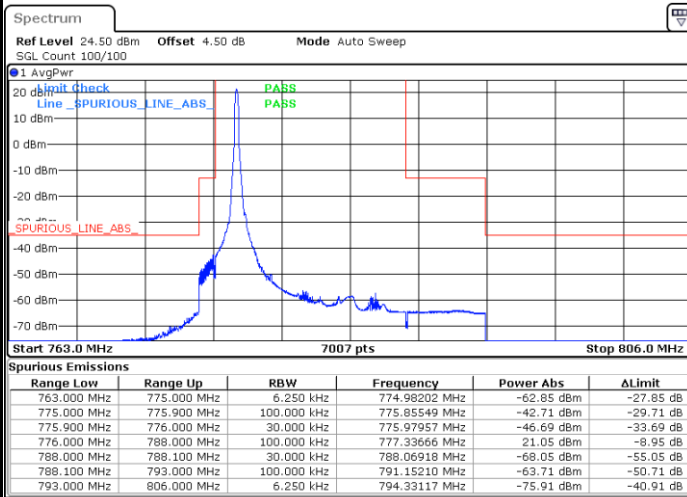




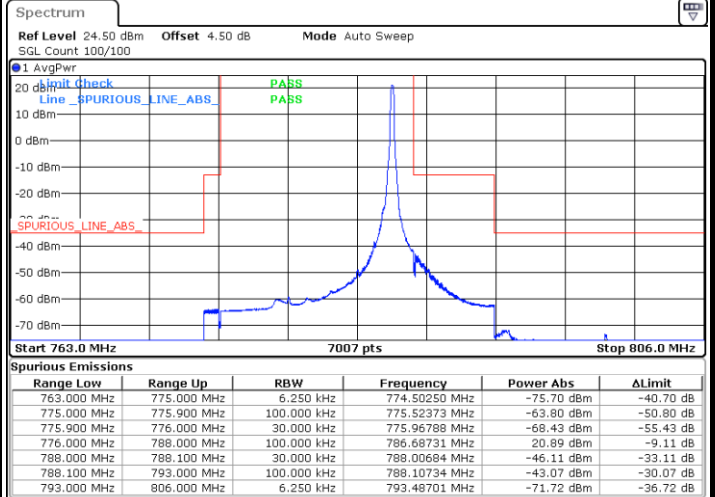
# Conducted Band Edge

## LTE Band 13 / 5MHz / QPSK

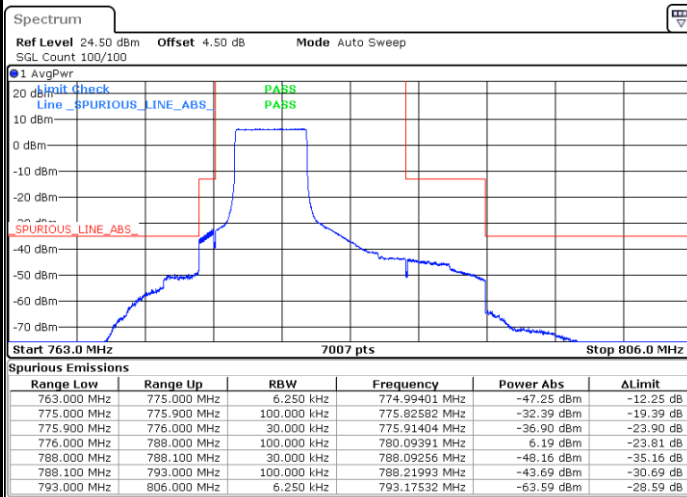
### Lowest Band Edge / 1 RB



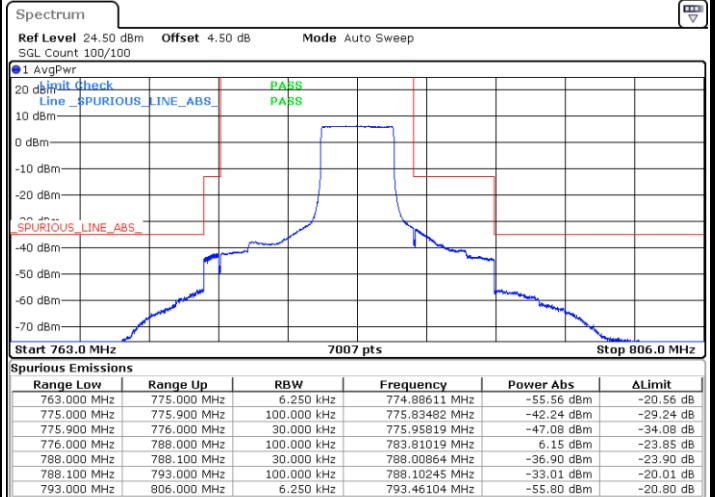
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



### Highest Band Edge / Full RB

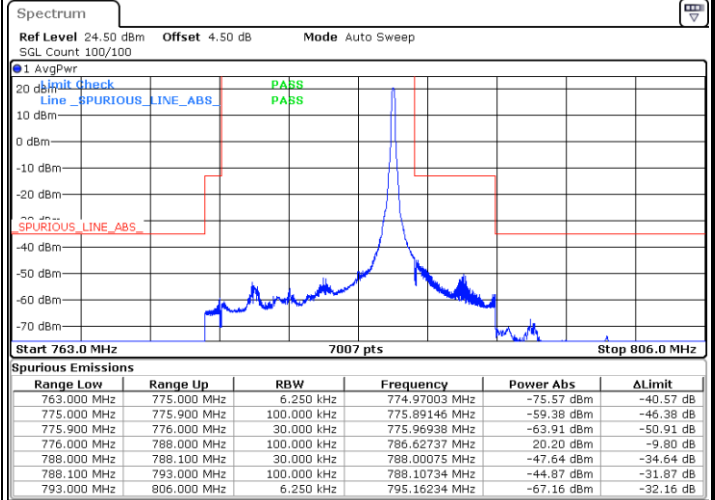
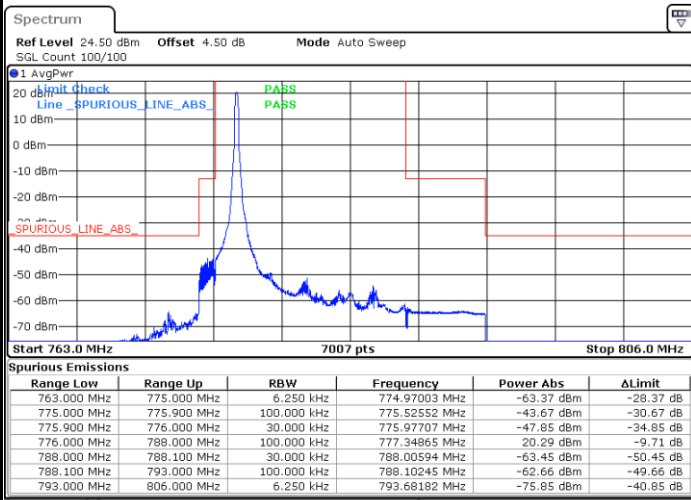




LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

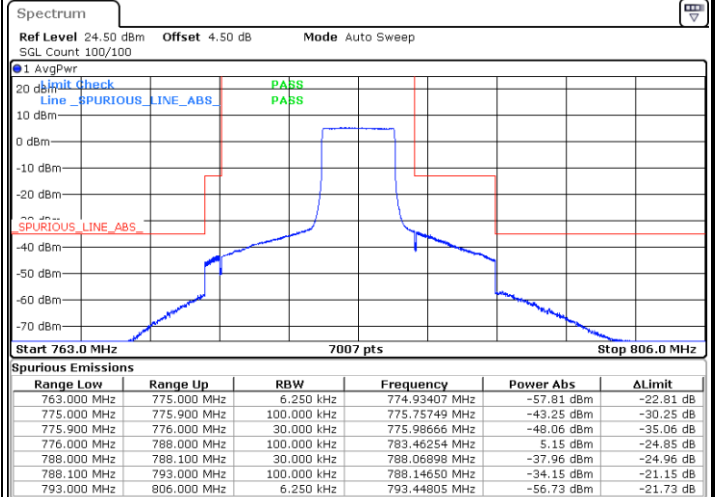
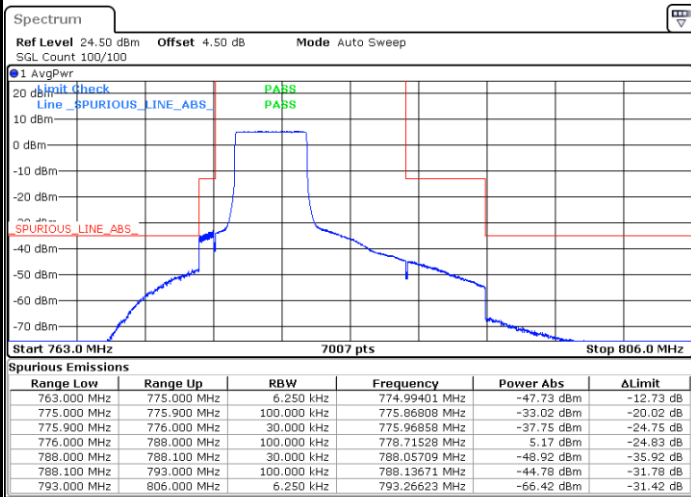


Date: 28.OCT.2021 11:15:40

Date: 28.OCT.2021 11:27:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.OCT.2021 11:20:33

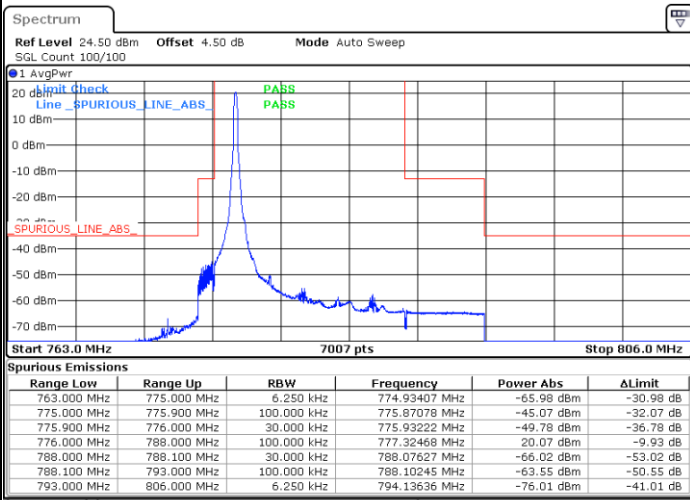
Date: 28.OCT.2021 11:32:21



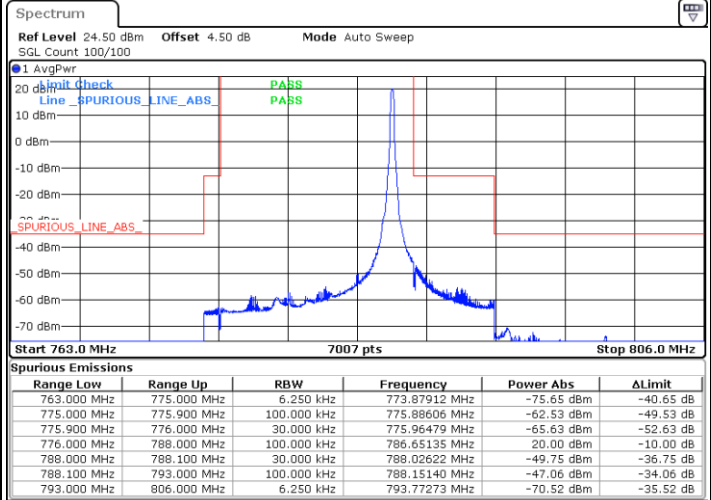
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB



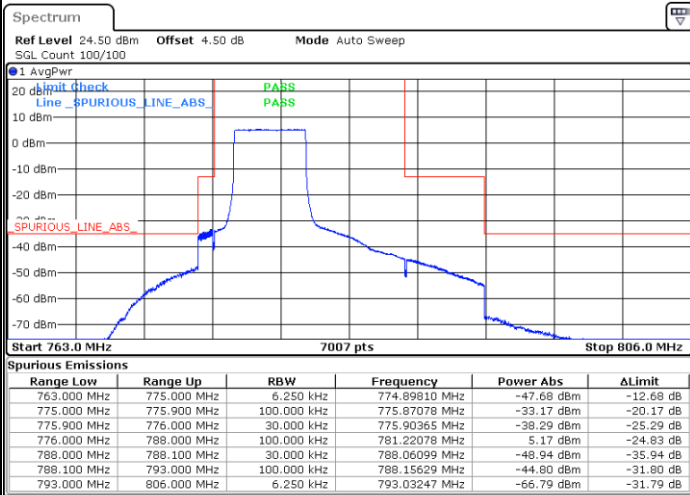
Date: 28.OCT.2021 11:17:20



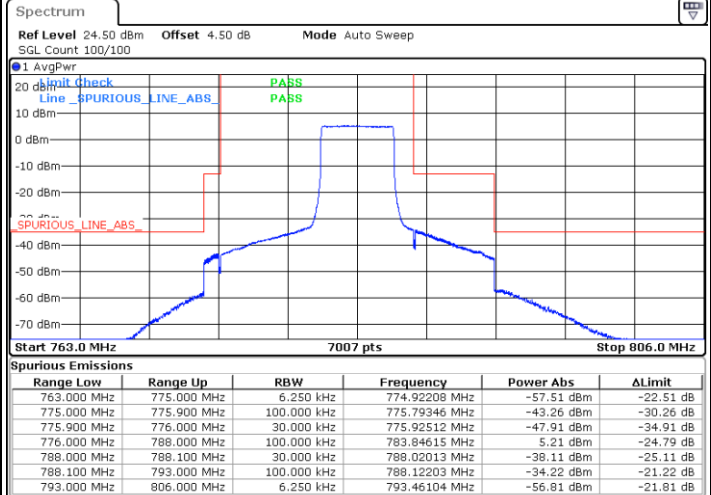
Date: 28.OCT.2021 11:29:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.OCT.2021 11:18:51

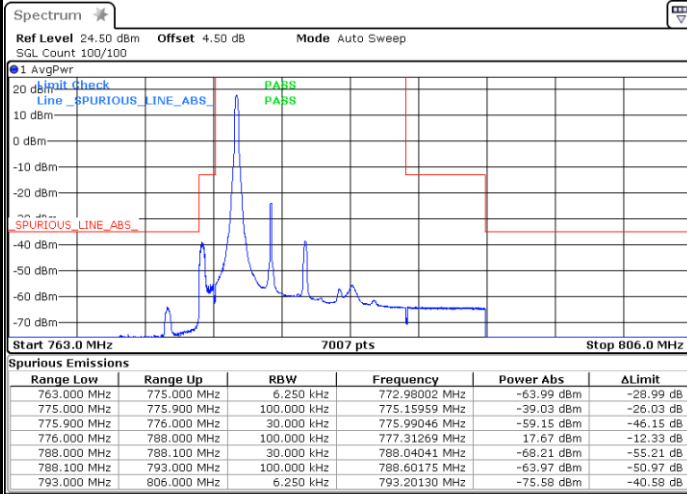


Date: 28.OCT.2021 11:30:56



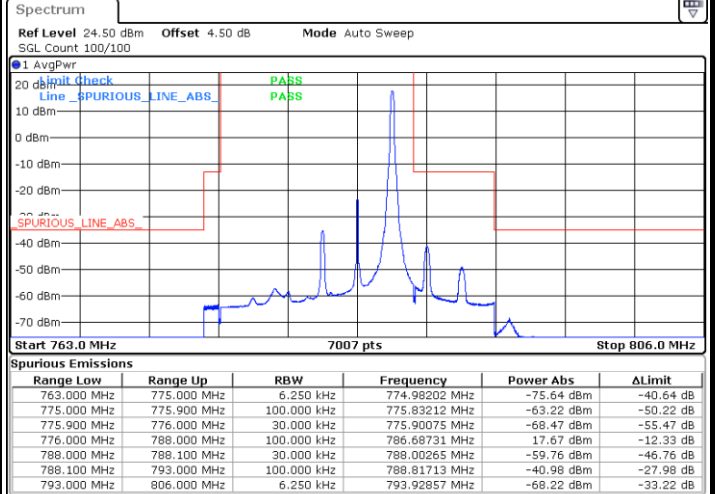
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB



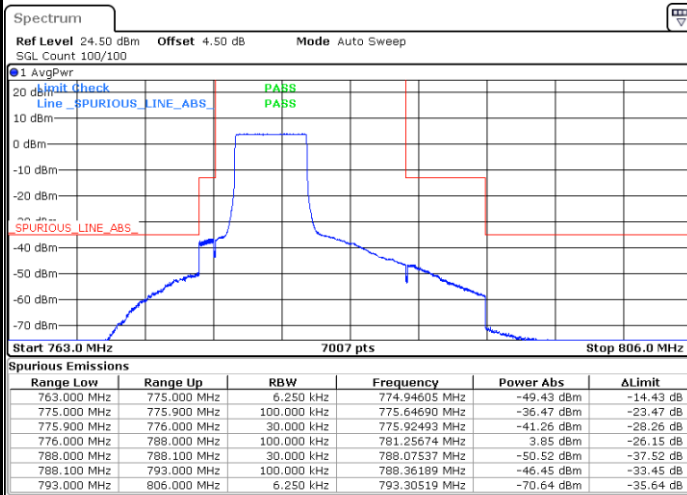
Date: 19.NOV.2021 20:56:35

Highest Band Edge / 1 RB



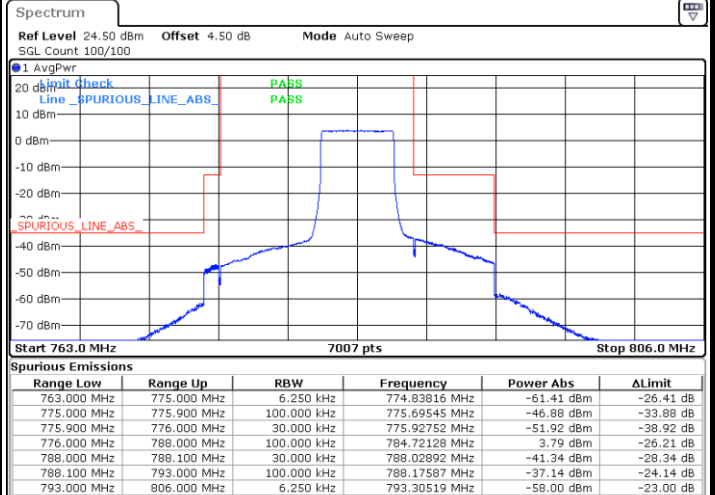
Date: 19.NOV.2021 21:01:30

Lowest Band Edge / Full RB



Date: 19.NOV.2021 20:58:18

Highest Band Edge / Full RB



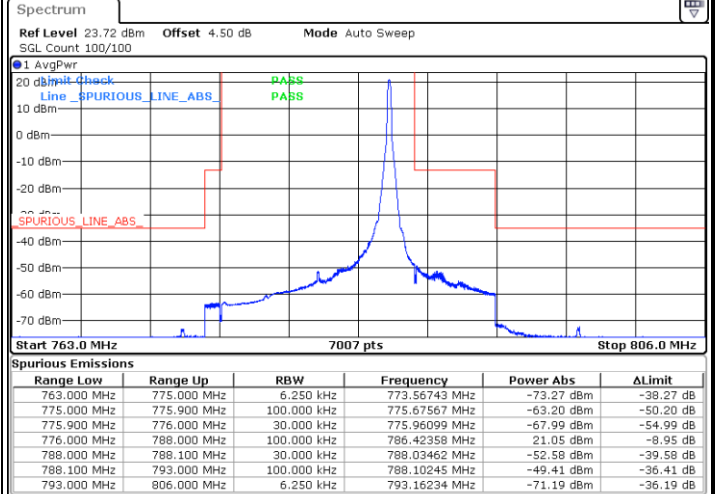
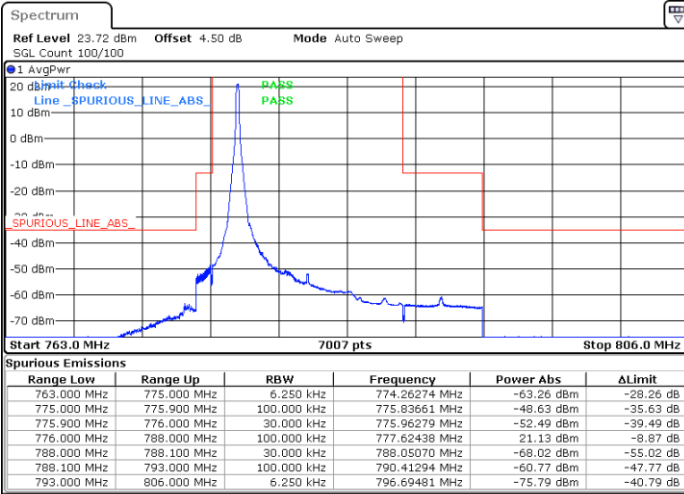
Date: 19.NOV.2021 21:00:12



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

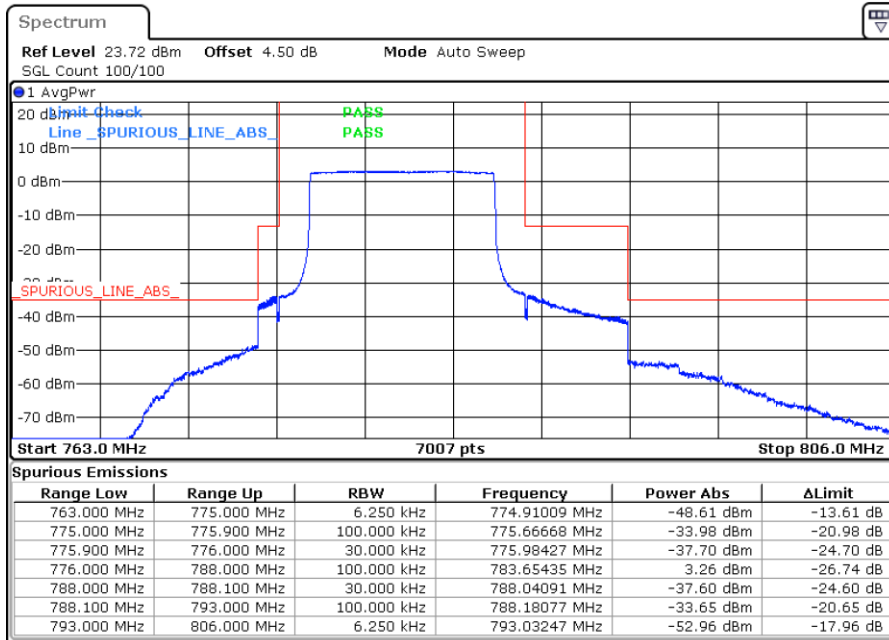
middle Band Edge / 1 RB



Date: 28.OCT.2021 11:40:39

Date: 28.OCT.2021 11:48:36

Middle Band Edge / Full RB



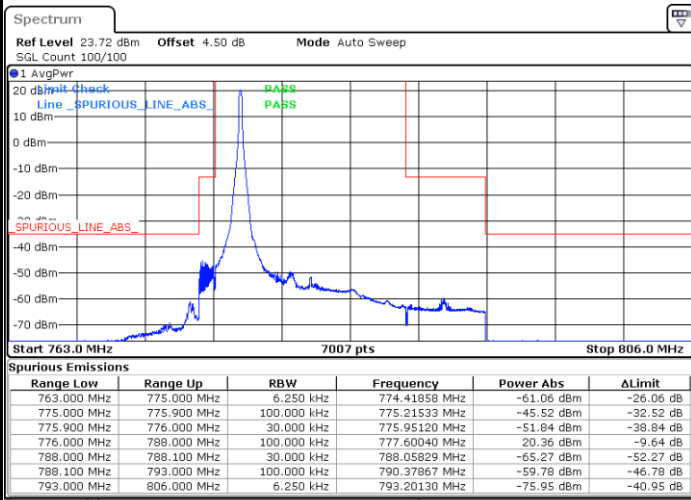
Date: 28.OCT.2021 11:57:10





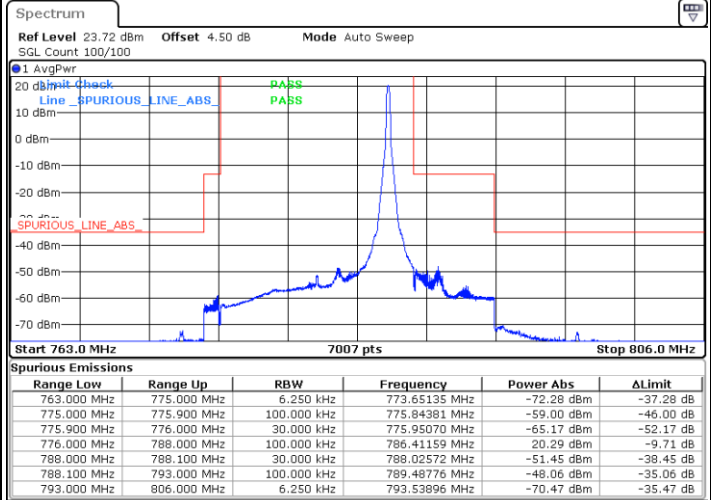
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



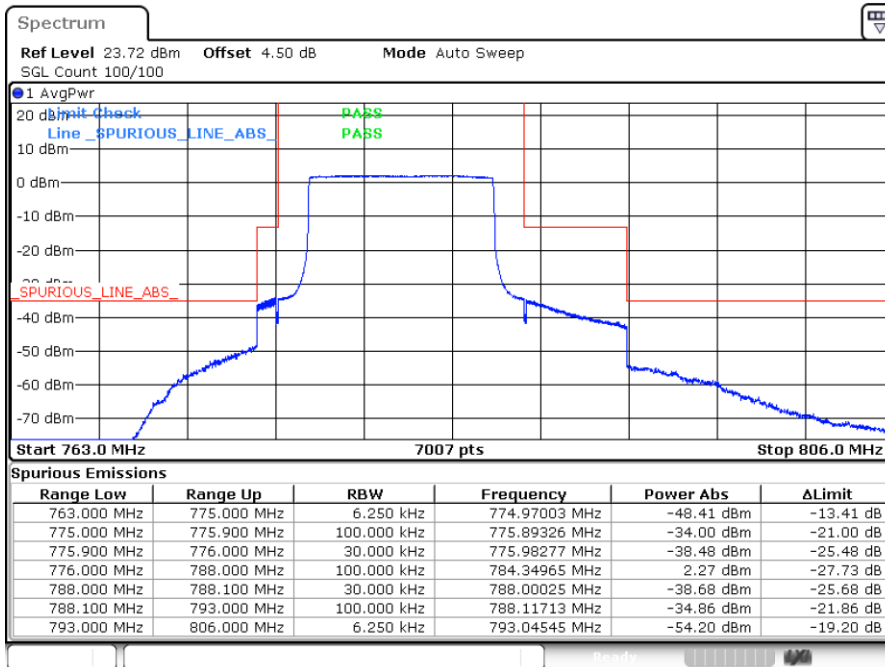
Date: 28.OCT.2021 11:42:11

middle Band Edge / 1 RB



Date: 28.OCT.2021 11:47:14

middle Band Edge / Full RB

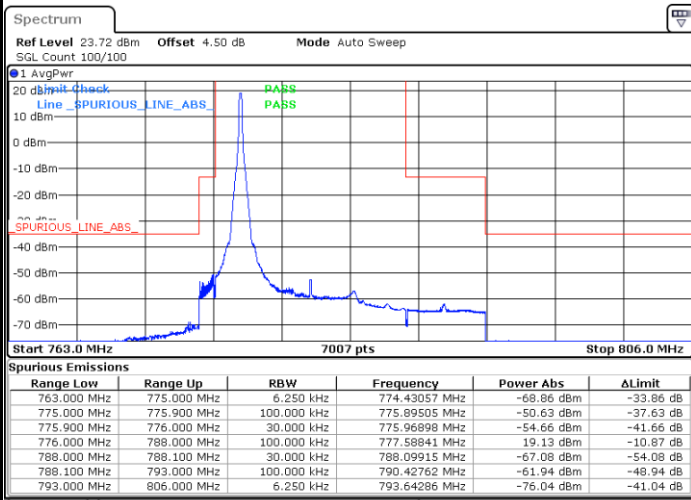


Date: 28.OCT.2021 11:55:02



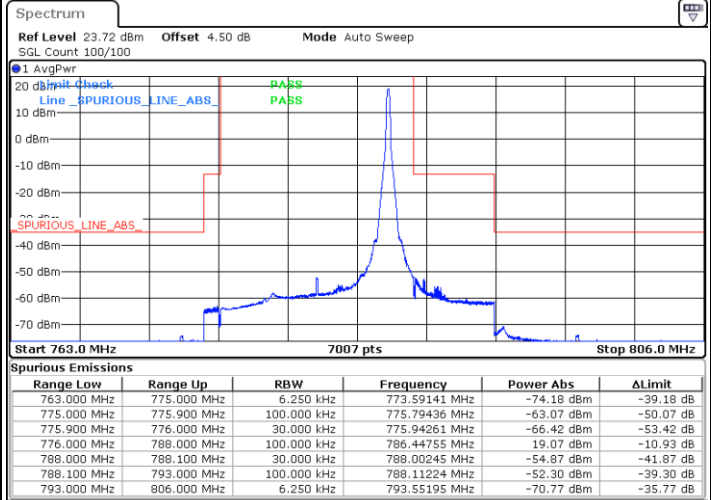
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



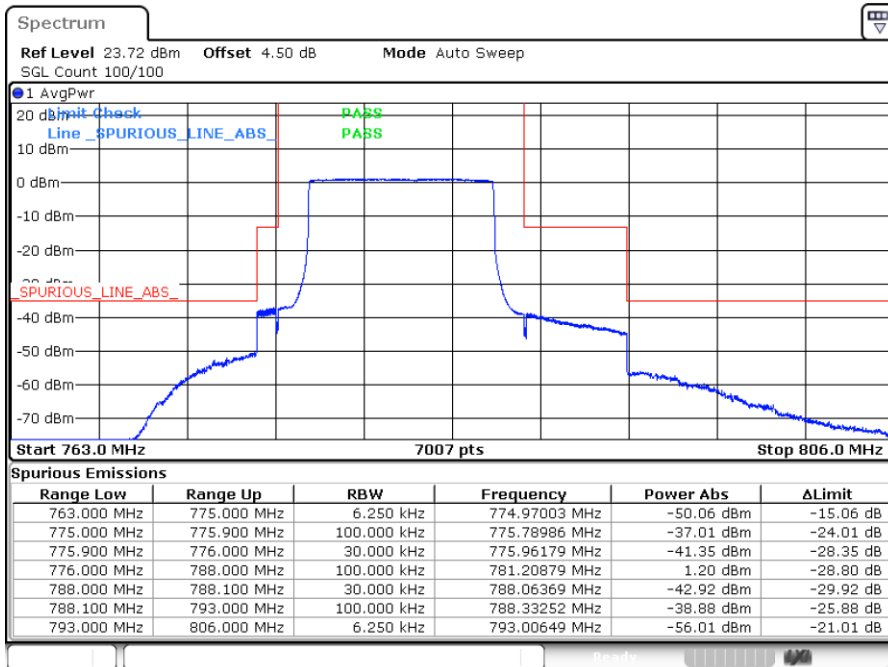
Date: 28.OCT.2021 11:43:48

middle Band Edge / 1 RB



Date: 28.OCT.2021 11:45:40

middle Band Edge / Full RB



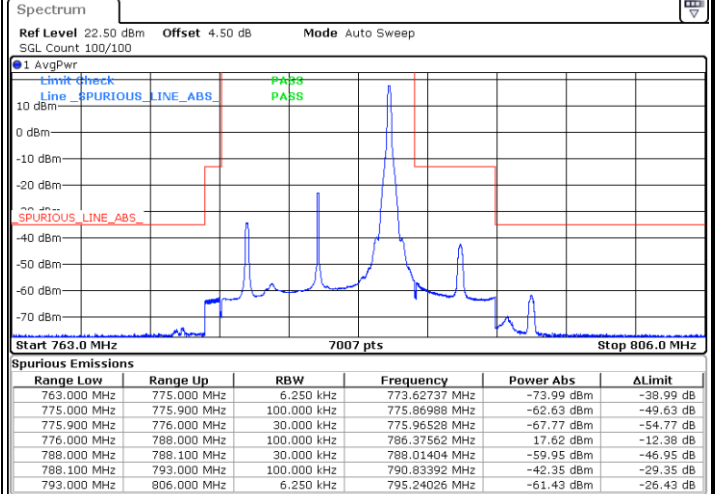
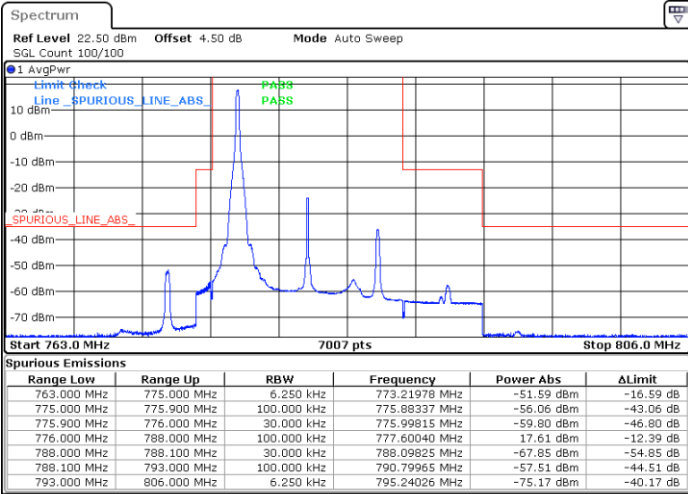
Date: 28.OCT.2021 11:53:45



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

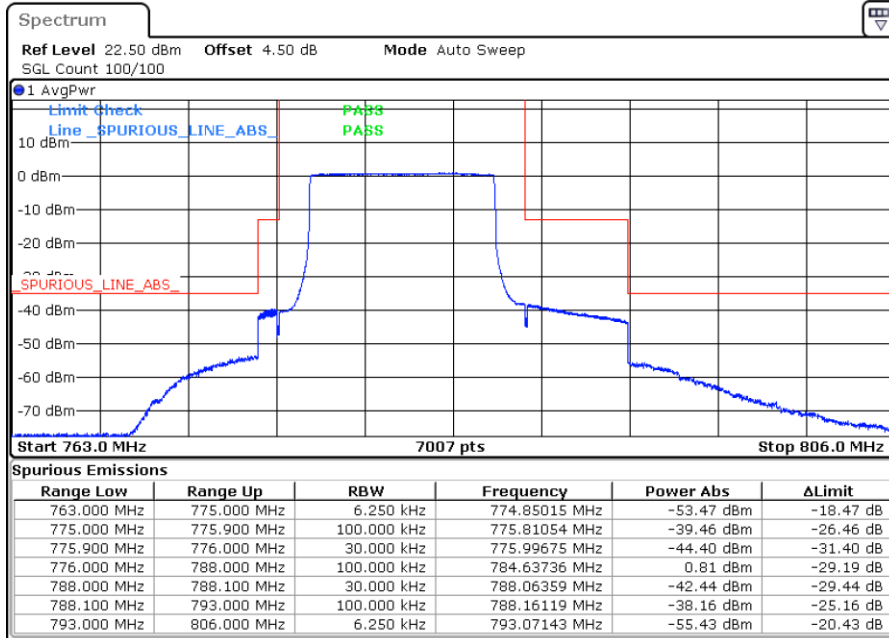
middle Band Edge / 1 RB



Date: 19.NOV.2021 21:03:26

Date: 19.NOV.2021 21:04:58

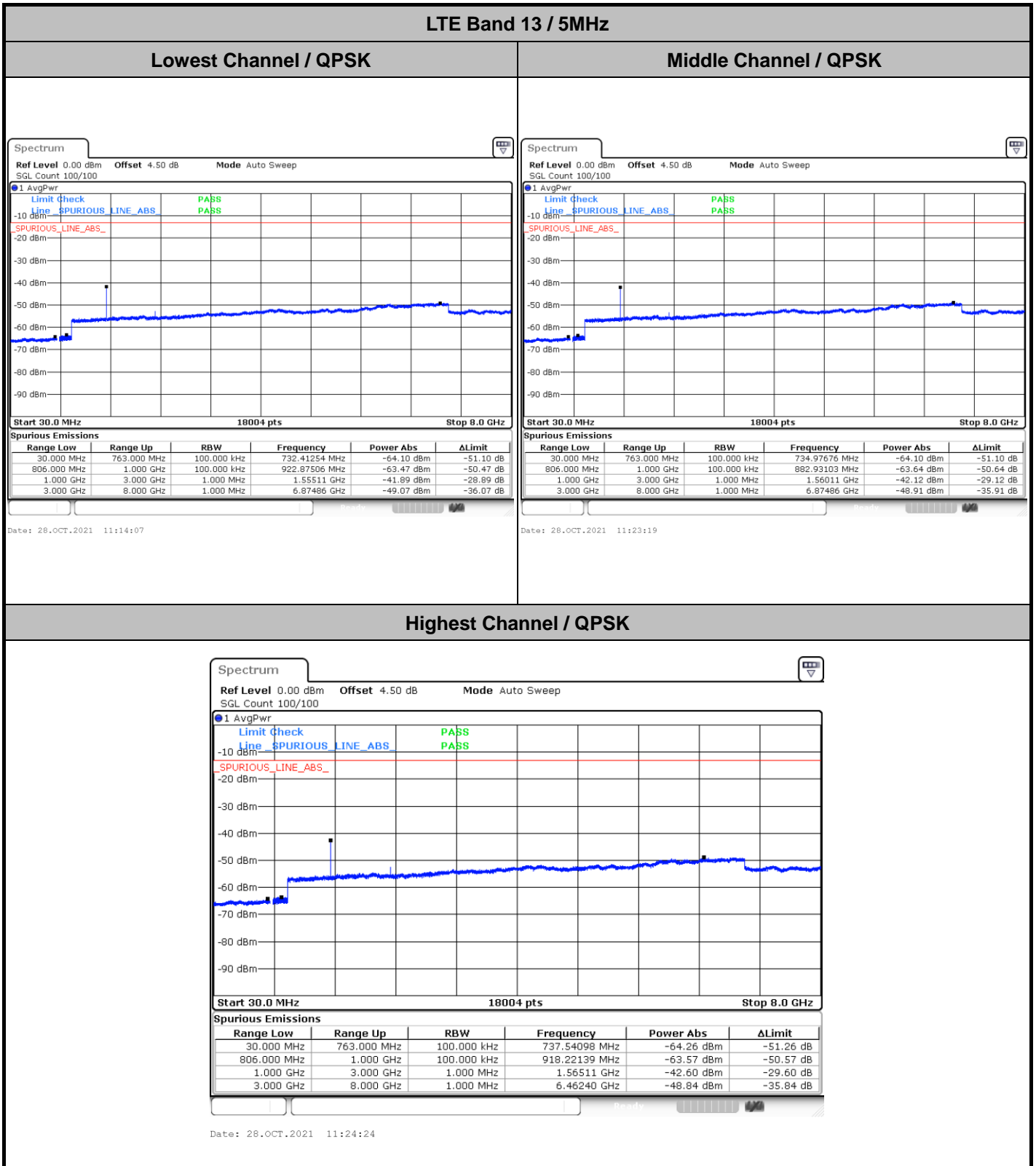
middle Band Edge / Full RB



Date: 19.NOV.2021 21:06:12



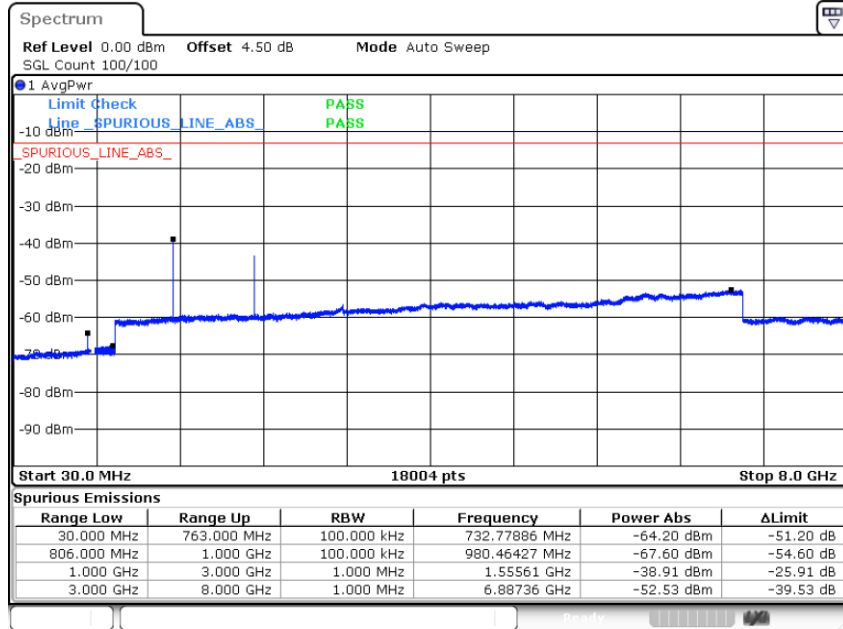
# Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 28.OCT.2021 11:39:06



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	0.0009	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Note:

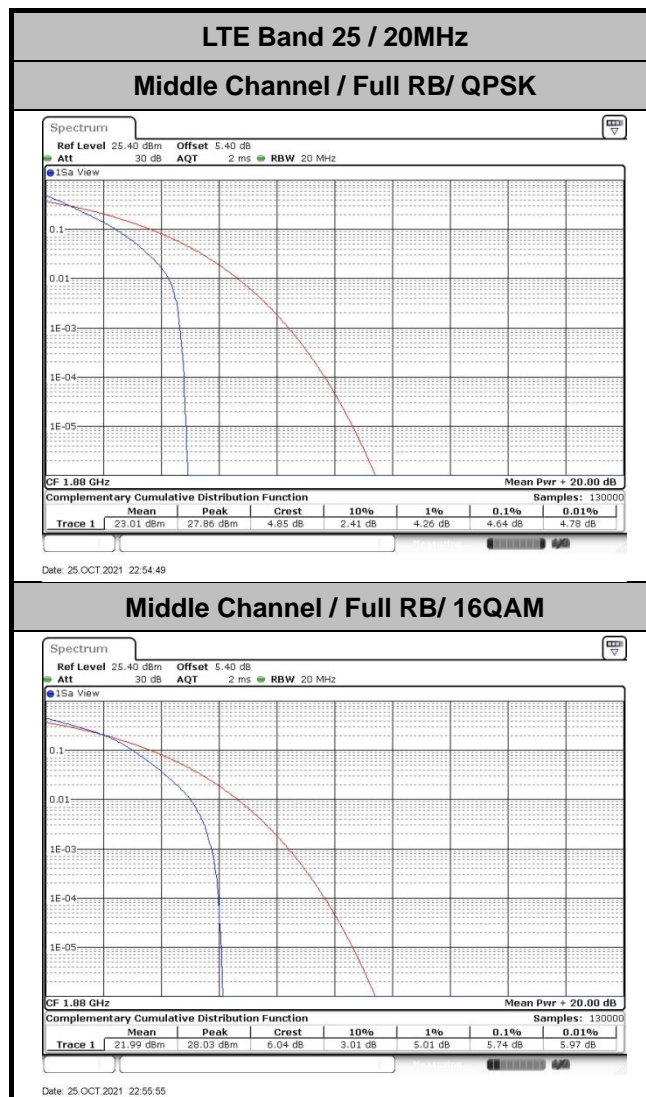
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

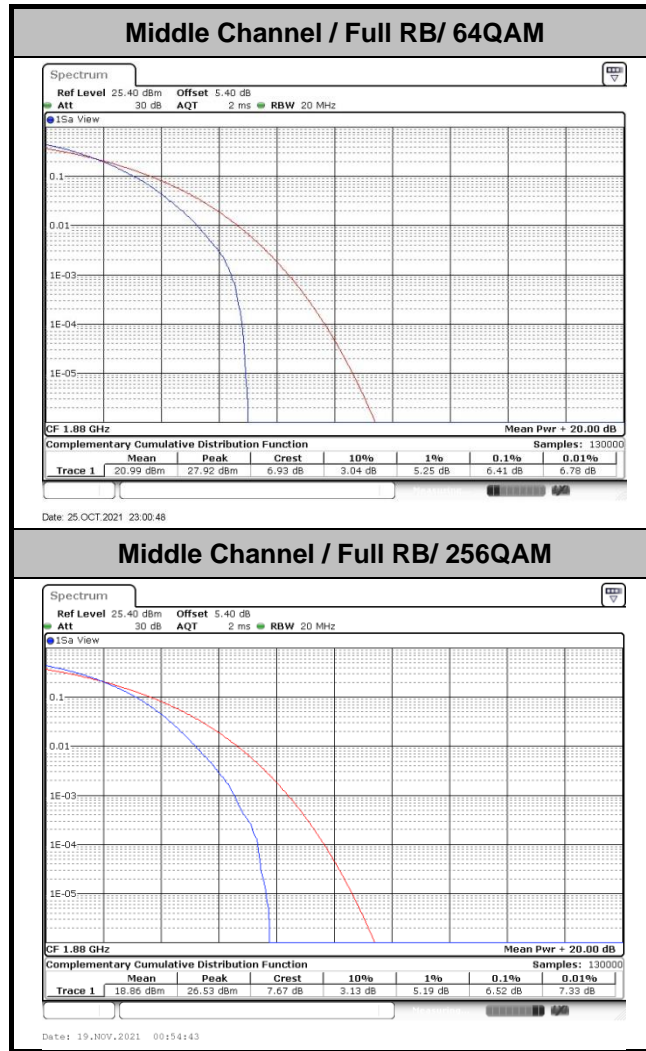


# LTE Band 25

## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.64	5.74	6.41	6.52	PASS



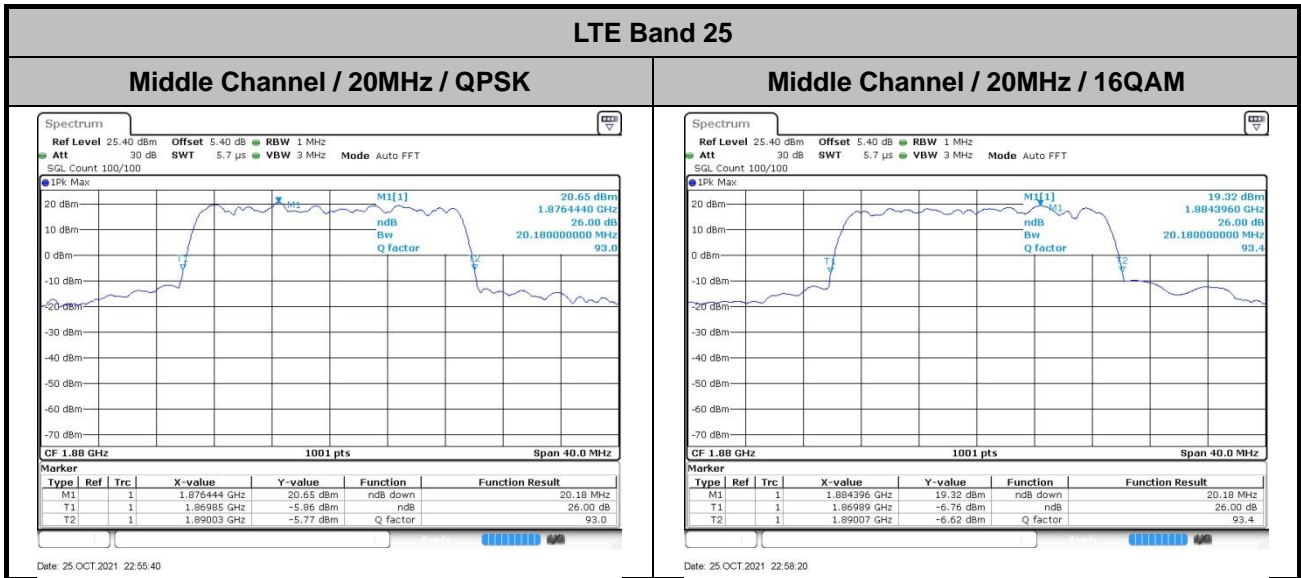






## 26dB Bandwidth

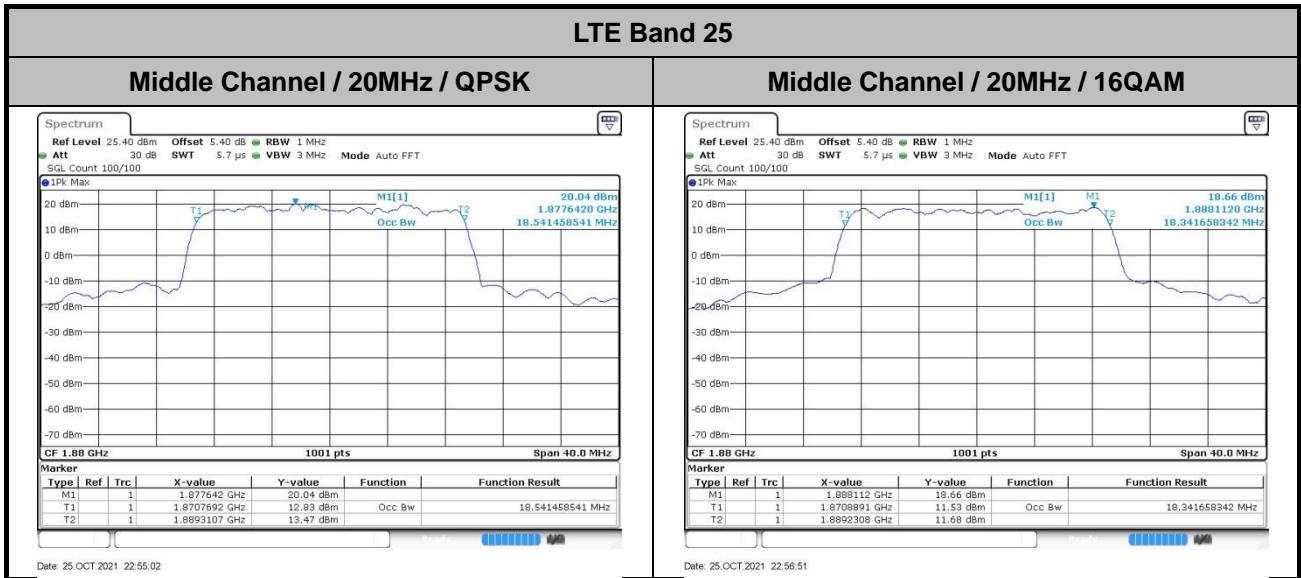
Mode	LTE Band 25 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.18	20.18





# Occupied Bandwidth

Mode	LTE Band 25 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.54	18.34

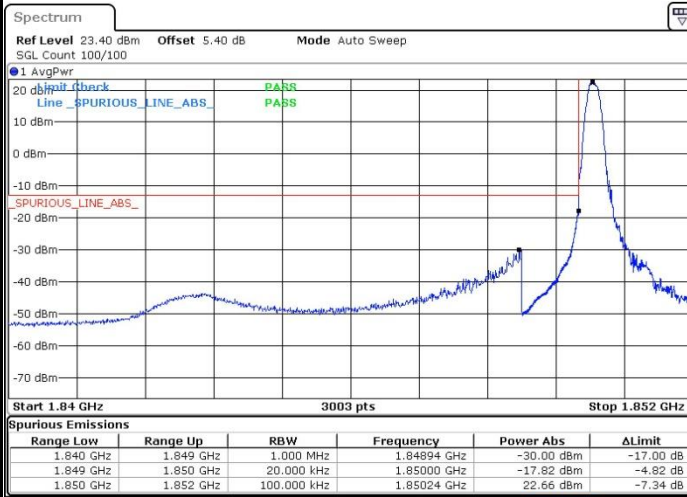




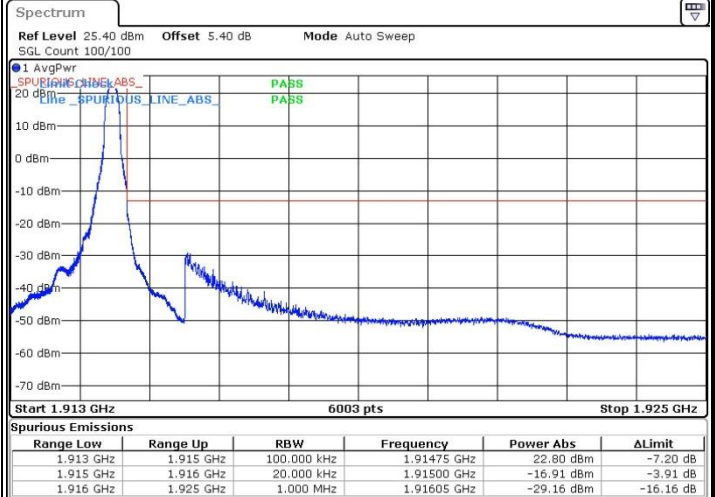
# Conducted Band Edge

## LTE Band 25 / 1.4MHz / QPSK

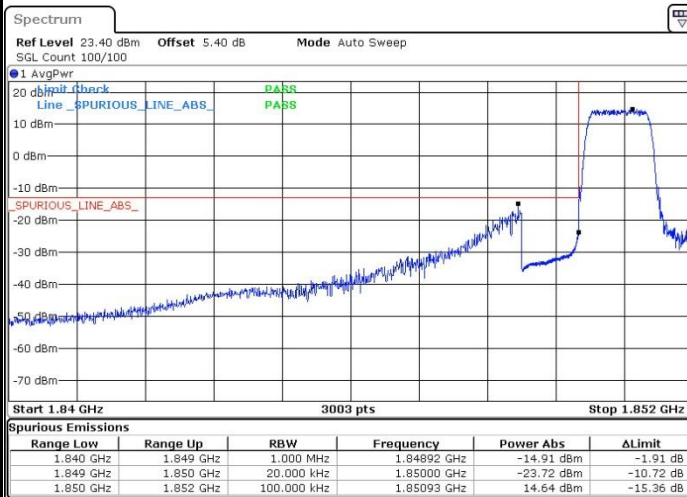
### Lowest Band Edge / 1RB



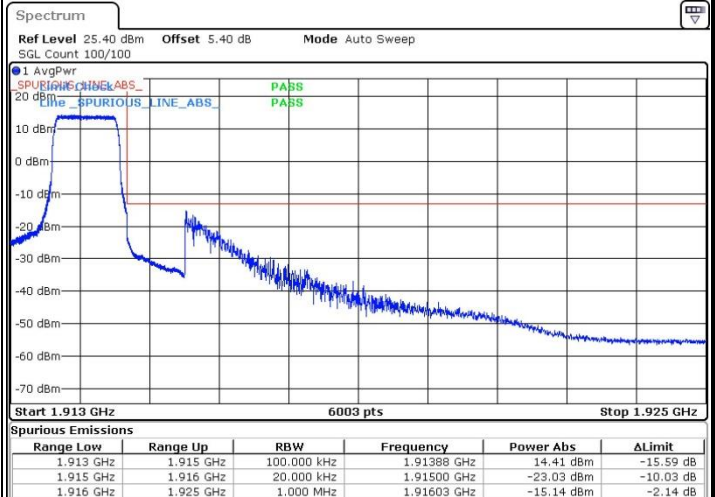
### Highest Band Edge / 1RB



### Lowest Band Edge / Full RB



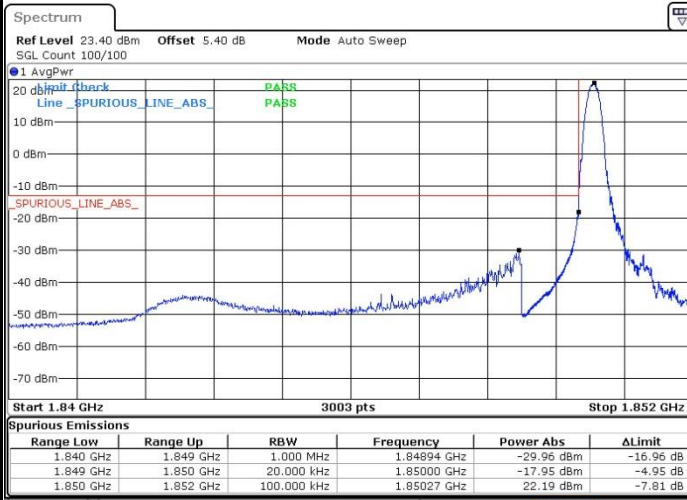
### Highest Band Edge / Full RB





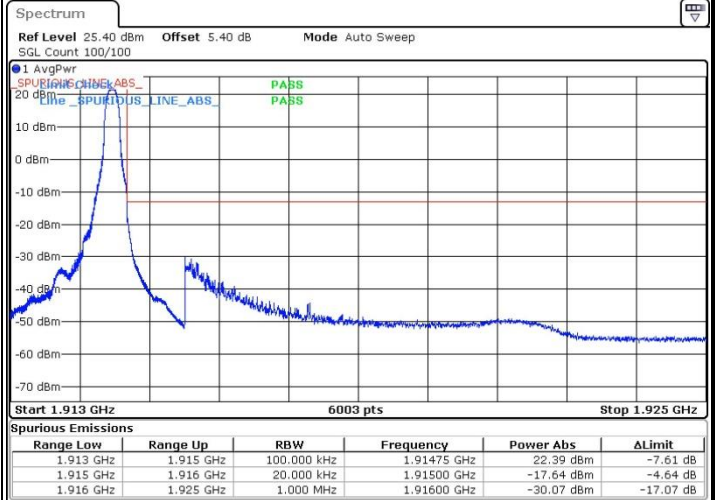
LTE Band 25 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



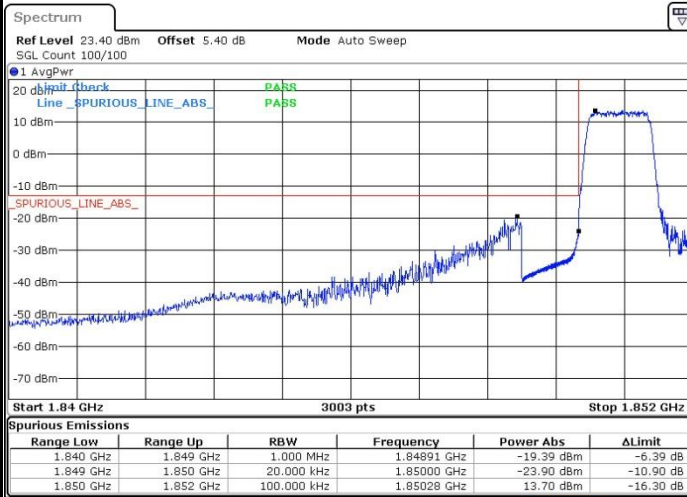
Date: 25.OCT.2021 21:30:58

Highest Band Edge / 1 RB



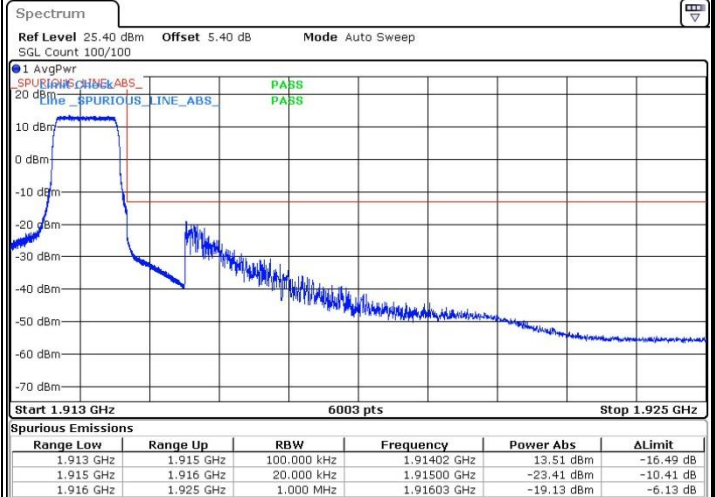
Date: 25.OCT.2021 21:40:40

Lowest Band Edge / Full RB



Date: 25.OCT.2021 21:34:04

Highest Band Edge / Full RB



Date: 25.OCT.2021 21:37:19