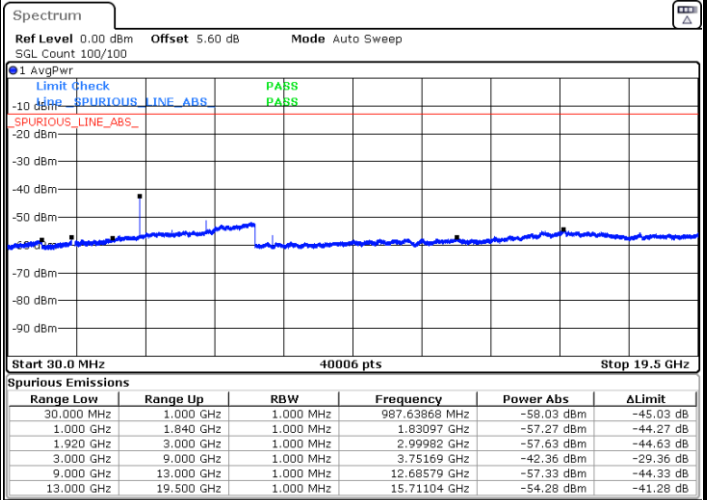
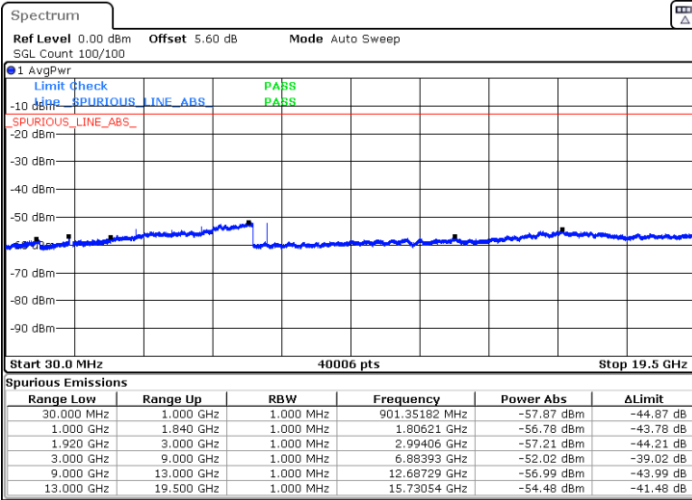




LTE Band 2 / 10MHz

Lowest Channel / QPSK

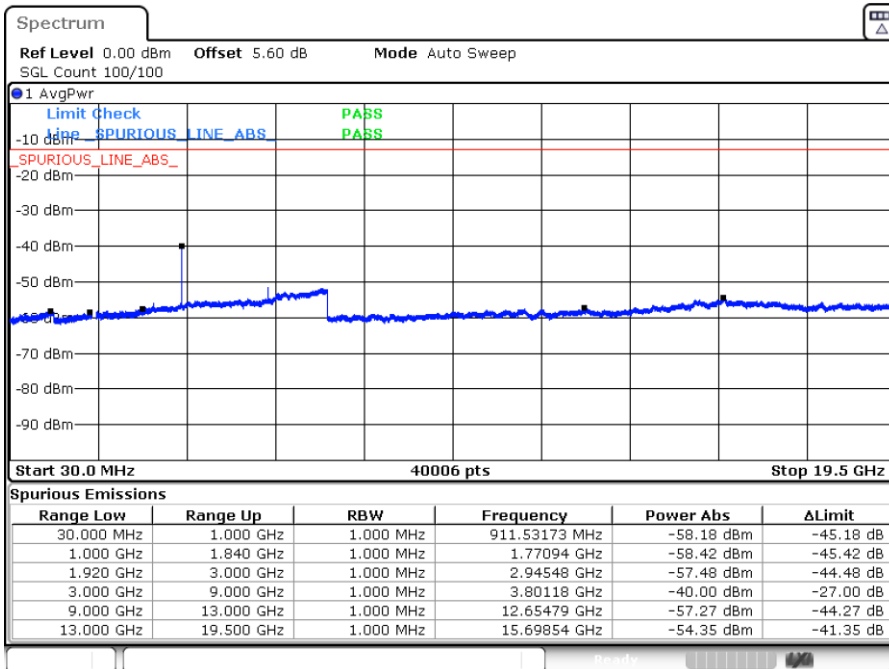
Middle Channel / QPSK



Date: 29.APR.2022 02:26:36

Date: 29.APR.2022 02:36:09

Highest Channel / QPSK



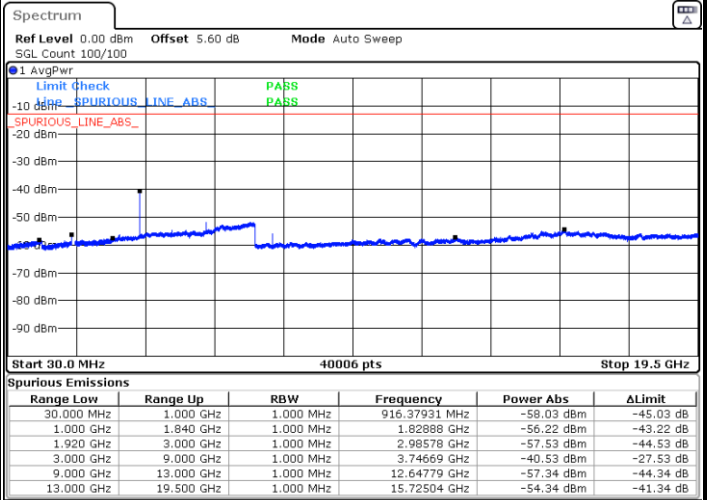
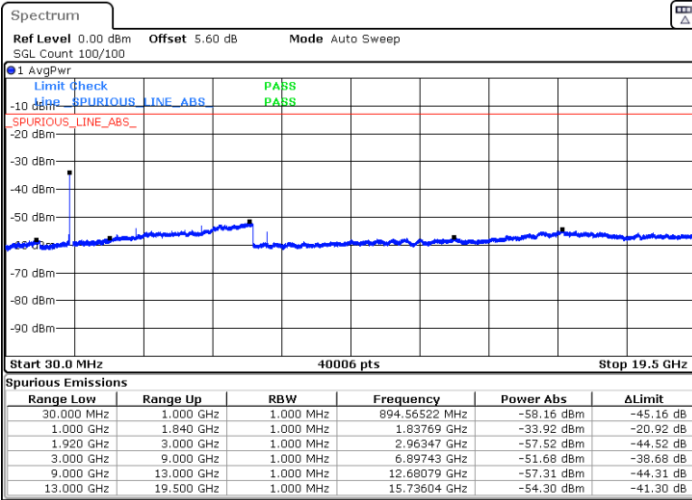
Date: 29.APR.2022 02:37:34



LTE Band 2 / 15MHz

Lowest Channel / QPSK

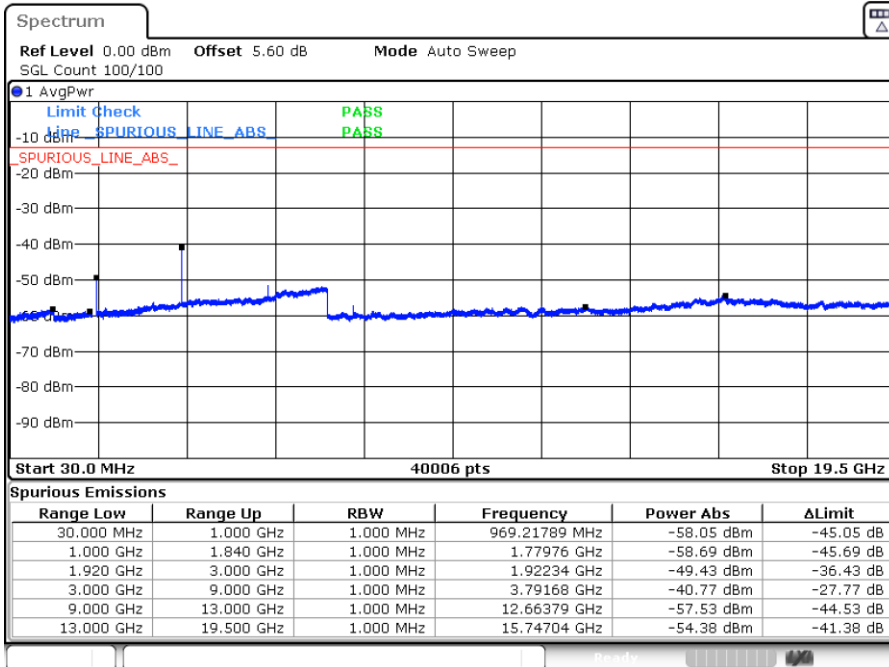
Middle Channel / QPSK



Date: 29.APR.2022 02:47:17

Date: 29.APR.2022 02:56:50

Highest Channel / QPSK



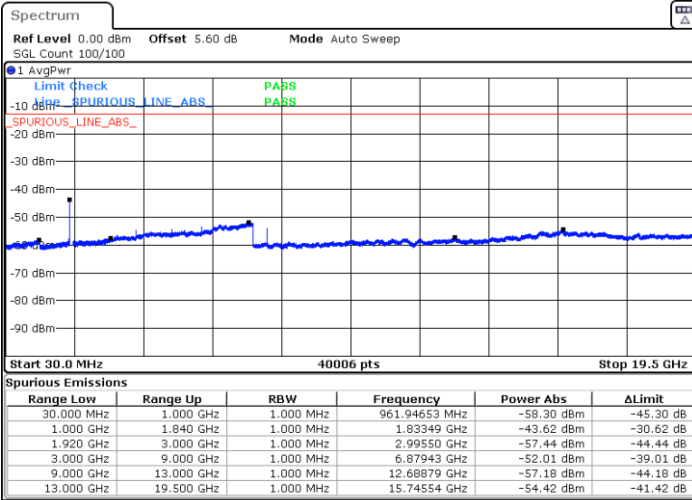
Date: 29.APR.2022 02:58:15



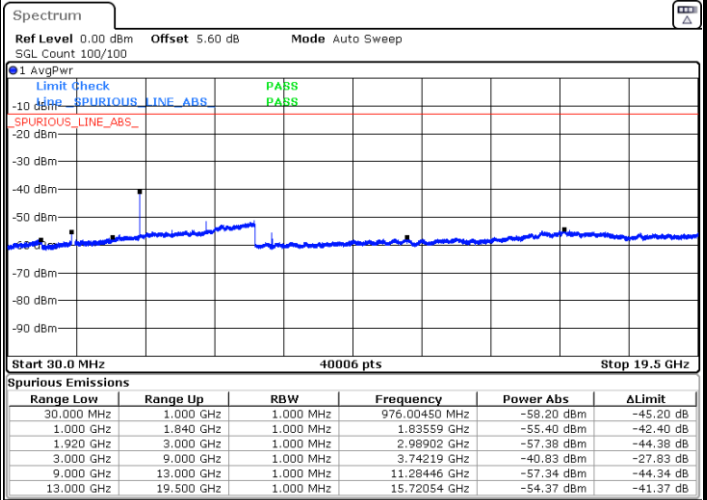
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

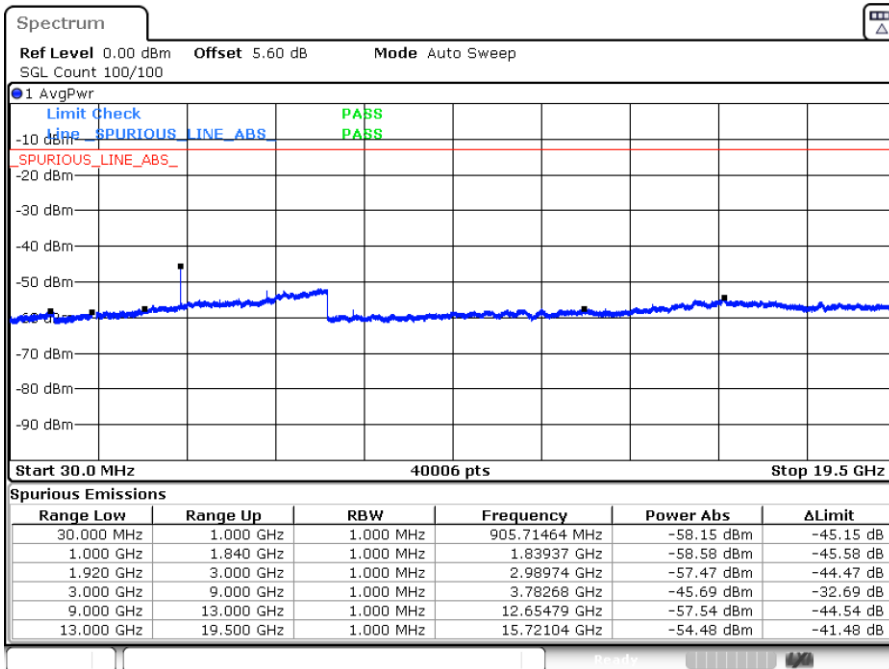


Date: 29.APR.2022 03:07:58



Date: 29.APR.2022 03:17:31

Highest Channel / QPSK



Date: 29.APR.2022 03:18:56



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0106	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0097	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0048	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0096	
20	Battery End Point	0.0037	

Note:

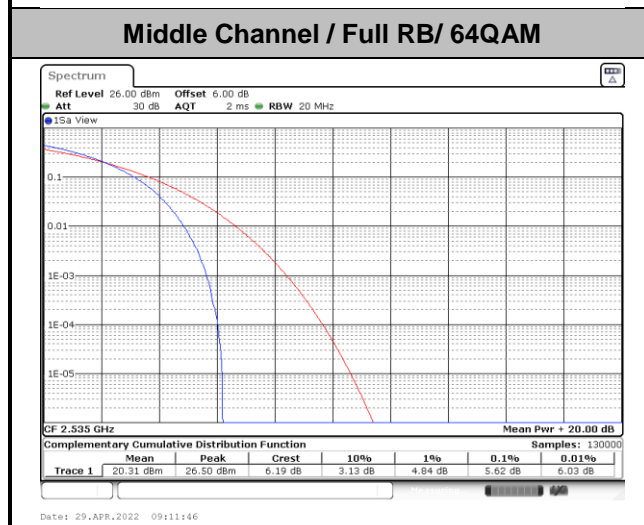
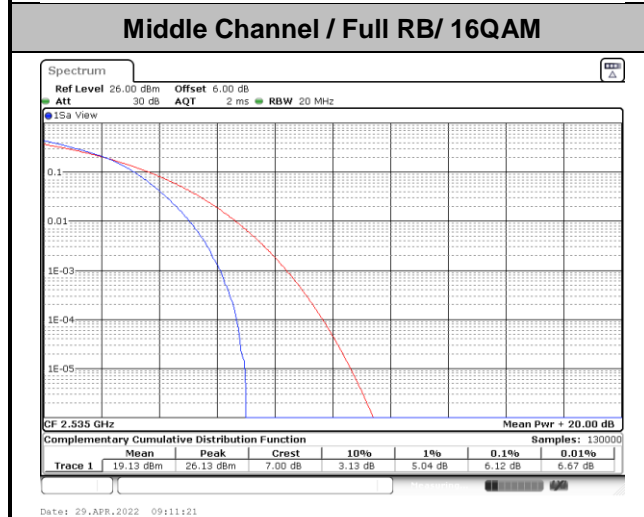
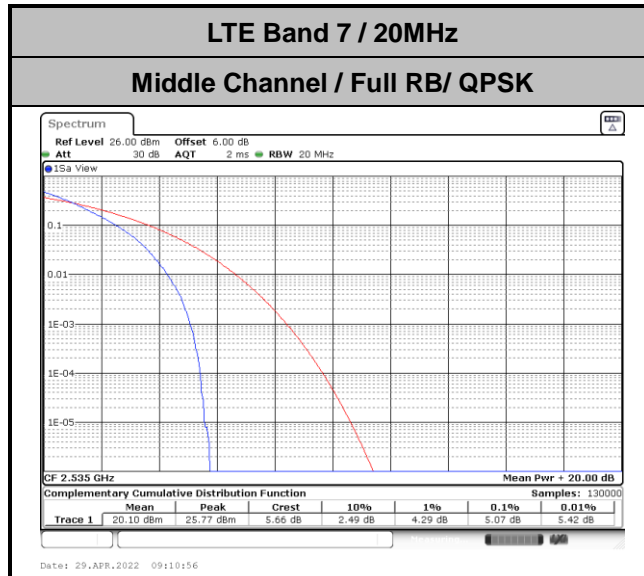
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 7

### Peak-to-Average Ratio

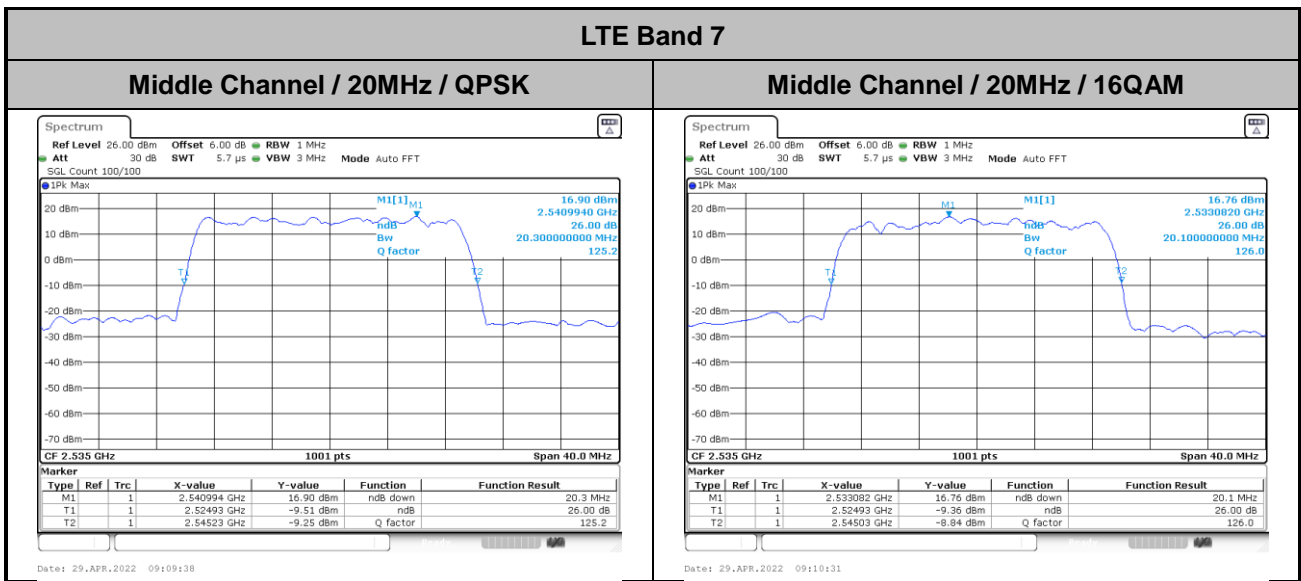
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.07	6.12	5.62	<b>PASS</b>





## 26dB Bandwidth

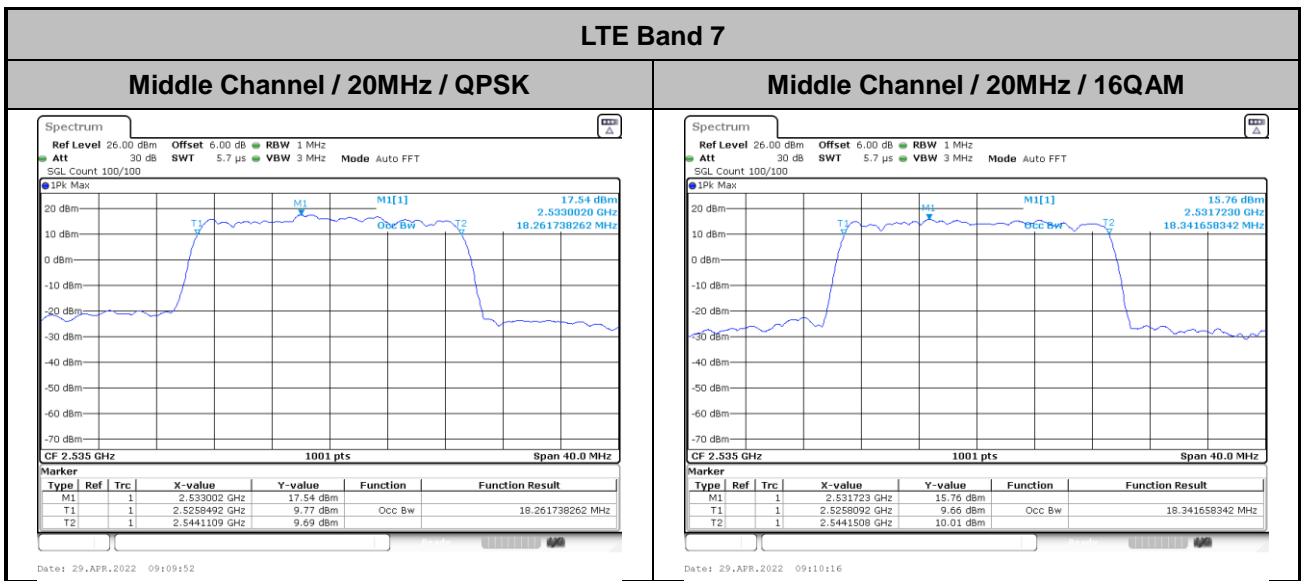
<b>Mode</b>	<b>LTE Band 7 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	20.30	20.10





## Occupied Bandwidth

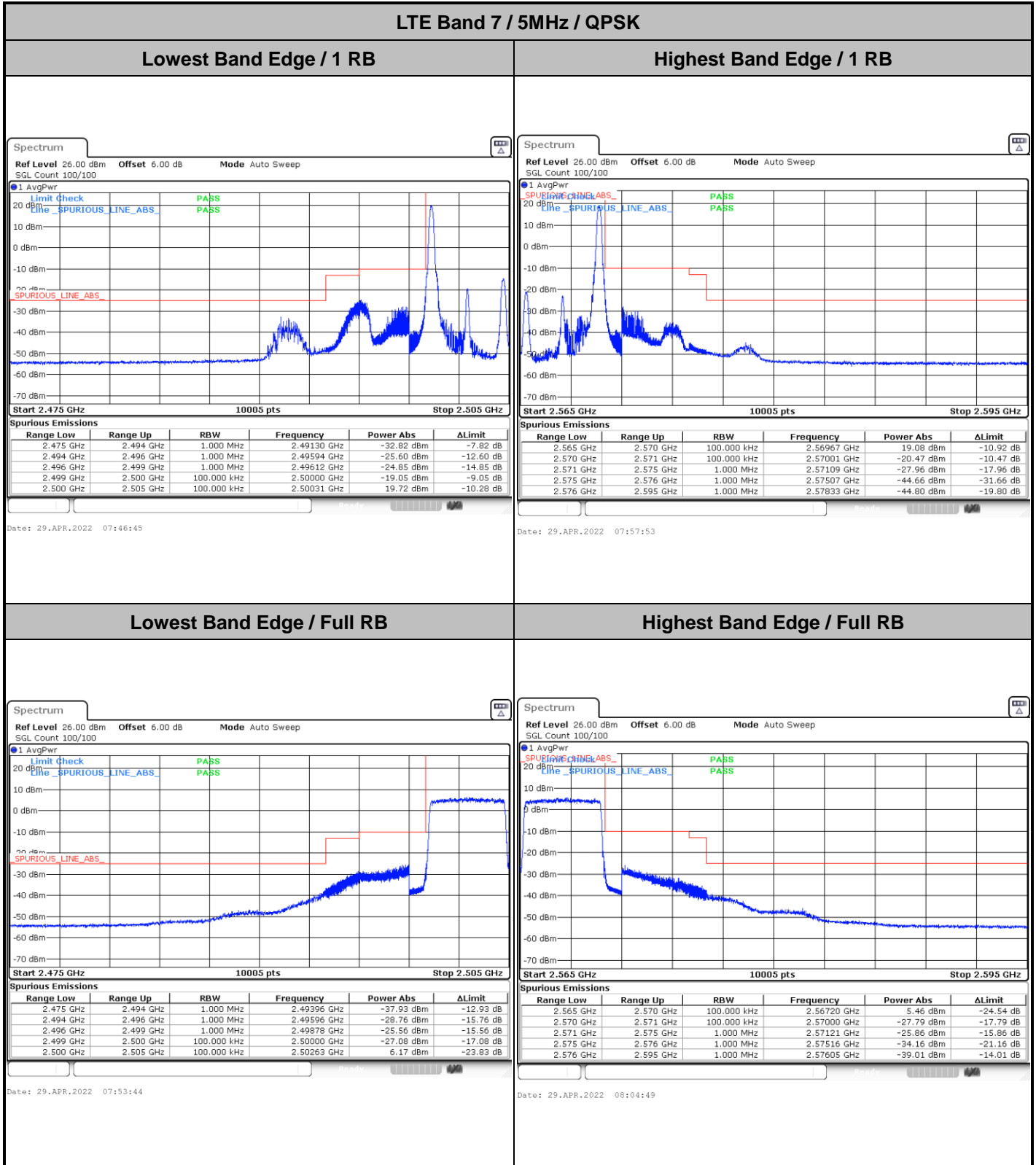
<b>Mode</b>	<b>LTE Band 7 : 99%OBW(MHz)</b>	
<b>BW</b>	<b>20MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	18.26	18.34







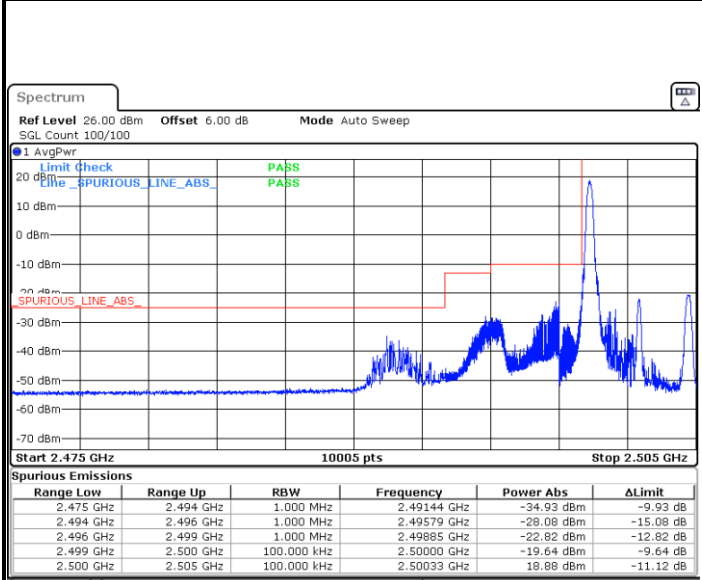
# Conducted Band Edge





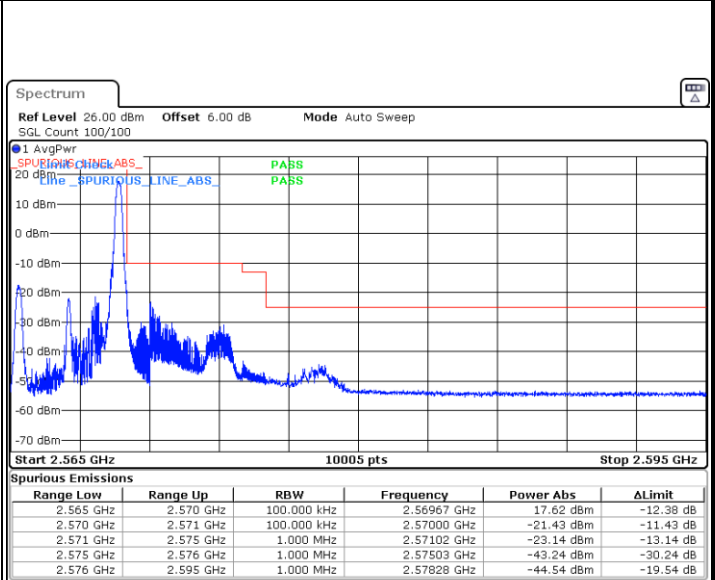
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



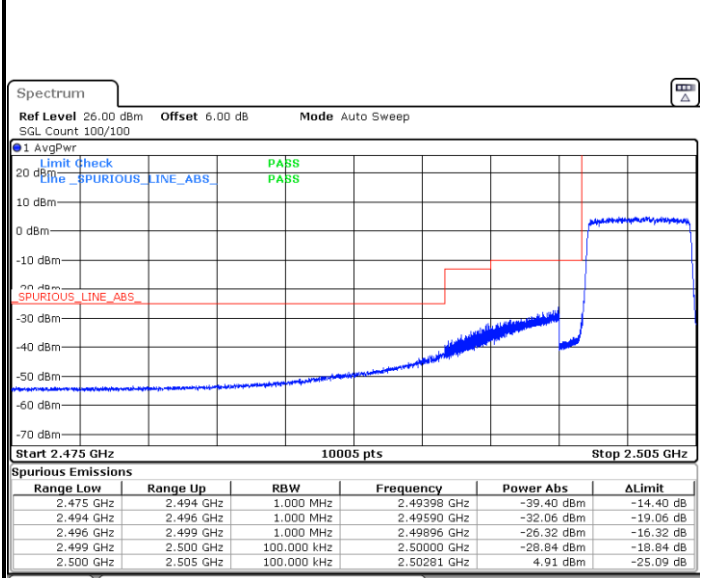
Date: 29.APR.2022 07:48:09

Highest Band Edge / 1 RB



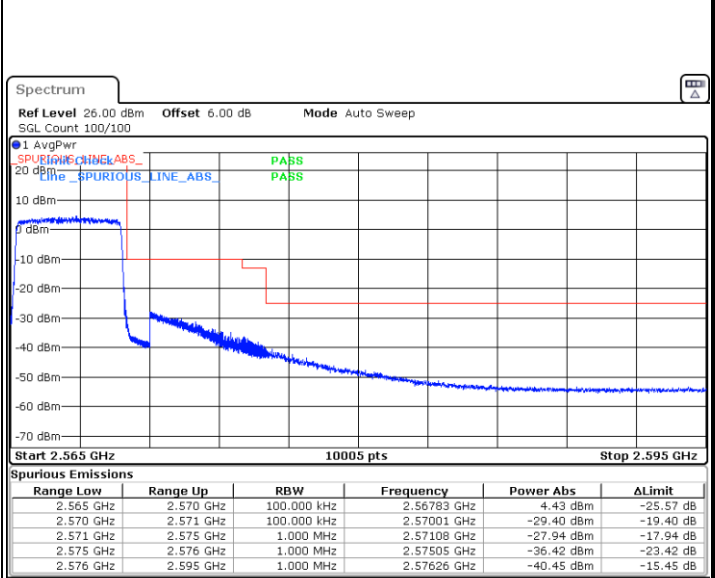
Date: 29.APR.2022 07:59:16

Lowest Band Edge / Full RB



Date: 29.APR.2022 07:52:20

Highest Band Edge / Full RB

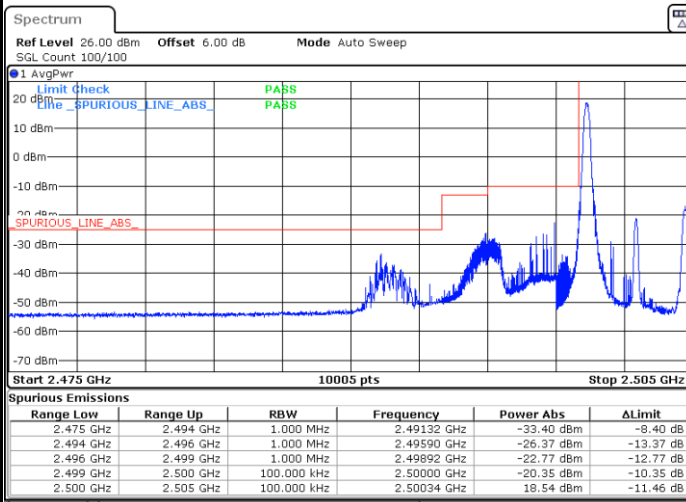


Date: 29.APR.2022 08:03:26



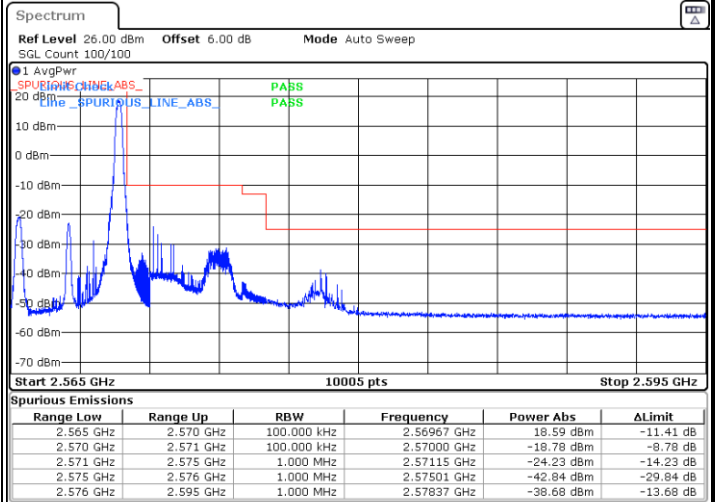
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



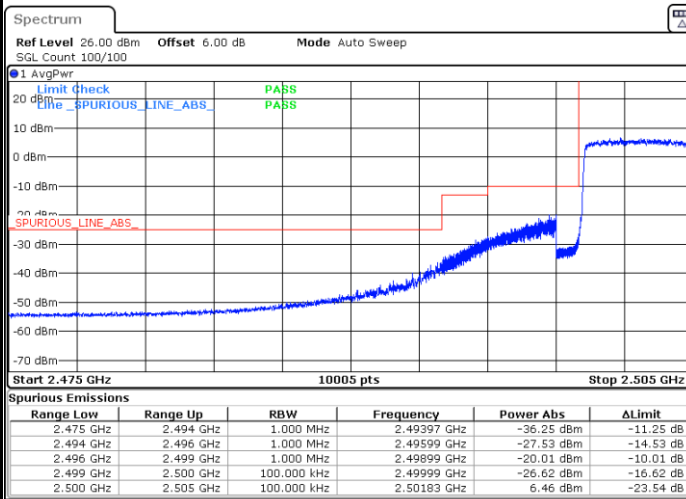
Date: 29.APR.2022 07:49:33

Highest Band Edge / 1 RB



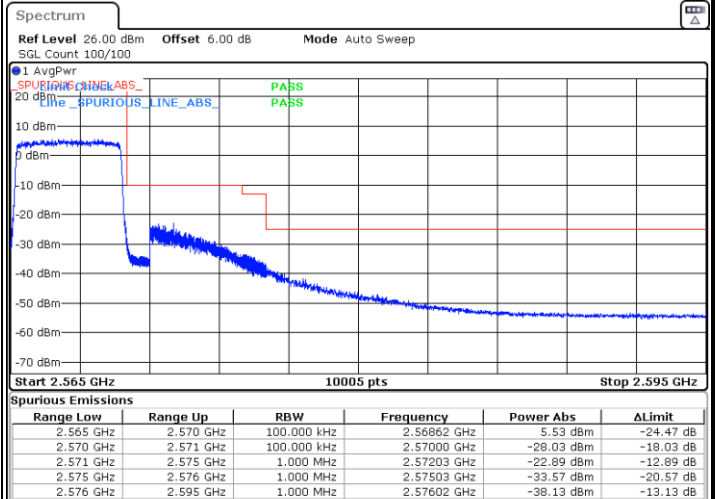
Date: 29.APR.2022 08:00:40

Lowest Band Edge / Full RB



Date: 29.APR.2022 07:50:57

Highest Band Edge / Full RB



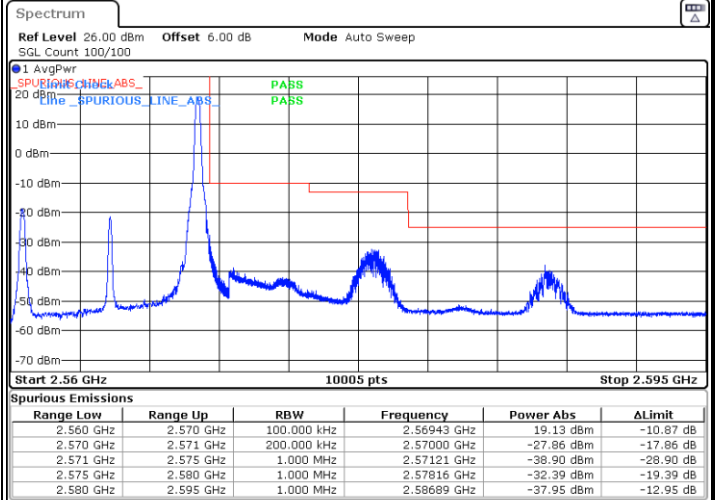
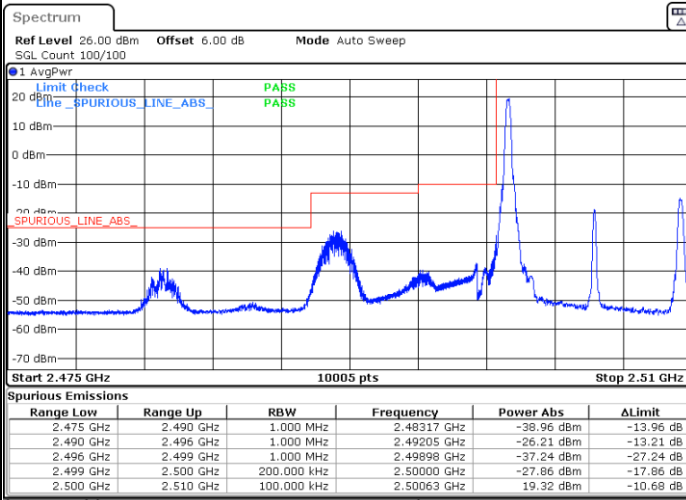
Date: 29.APR.2022 08:02:03



LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

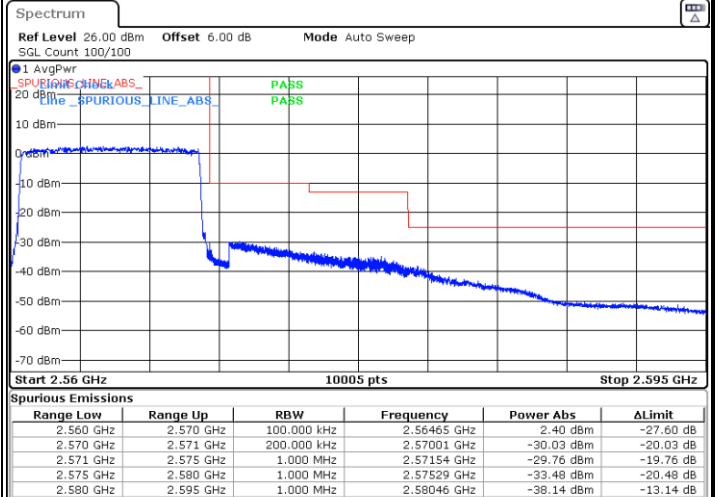
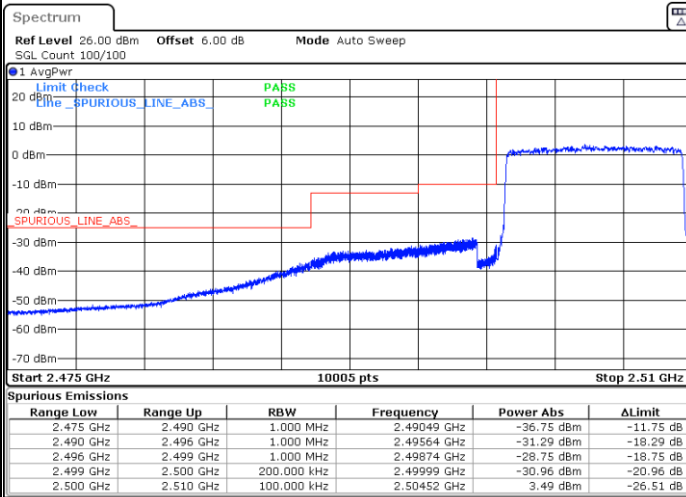


Date: 29.APR.2022 08:07:27

Date: 29.APR.2022 08:20:17

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.APR.2022 08:16:08

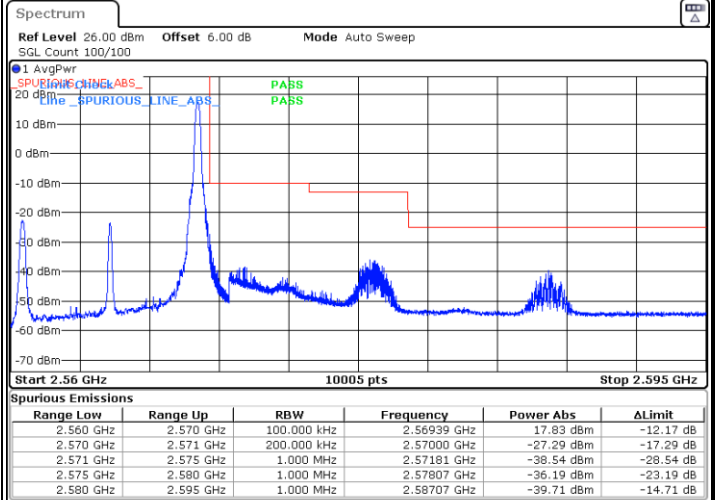
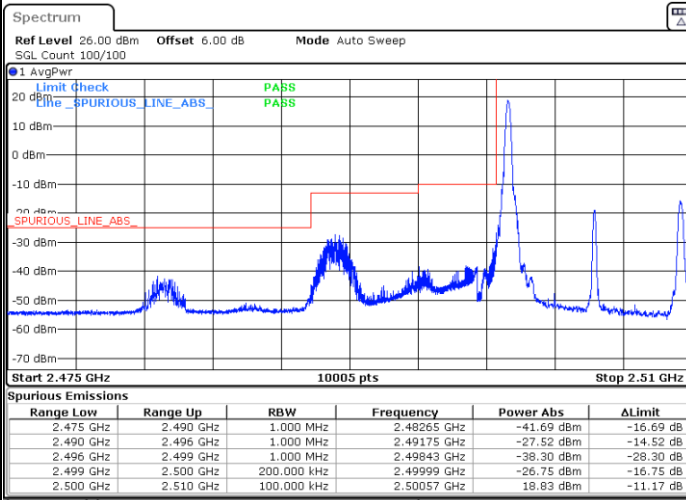
Date: 29.APR.2022 08:27:13



LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

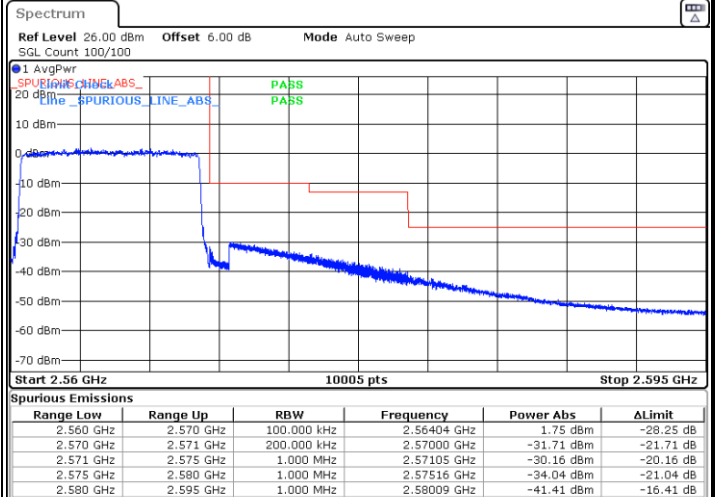
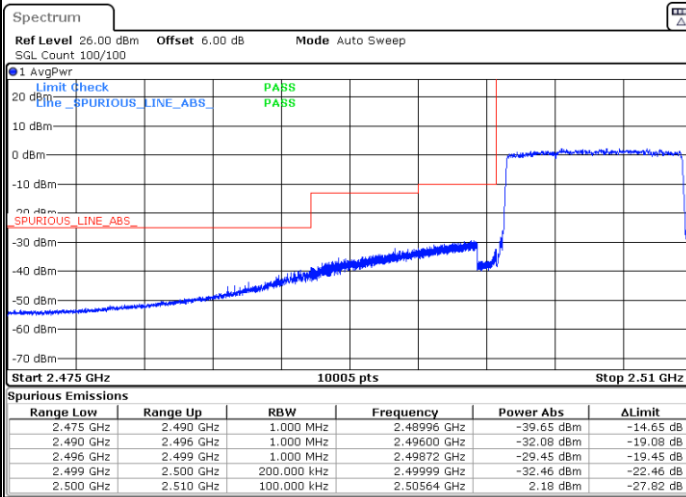


Date: 29.APR.2022 08:08:50

Date: 29.APR.2022 08:21:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.APR.2022 08:14:45

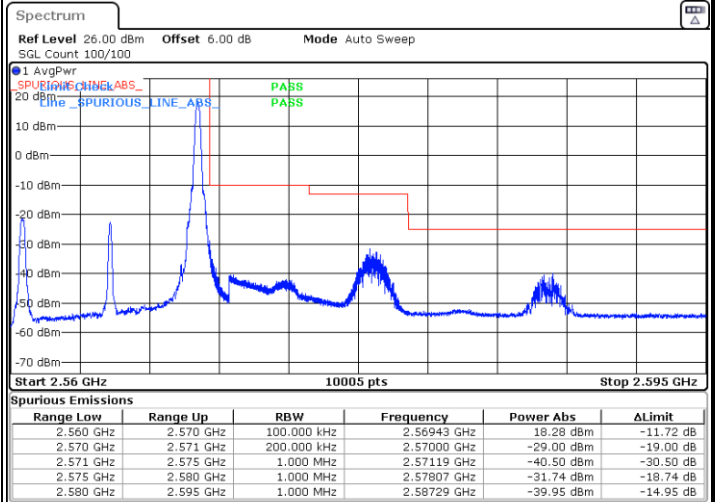
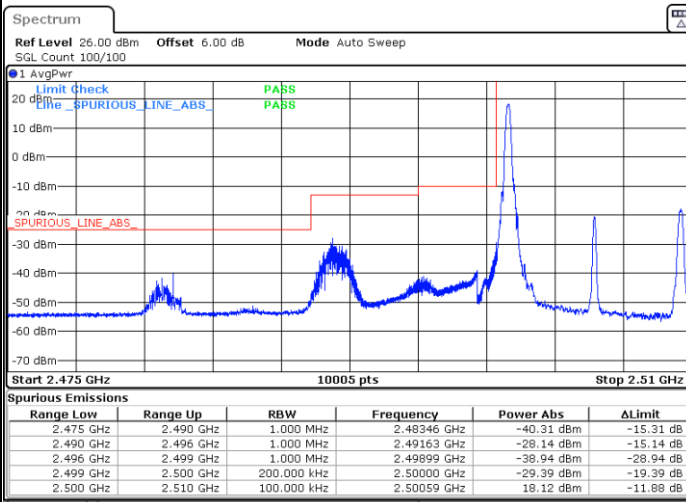
Date: 29.APR.2022 08:25:50



LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

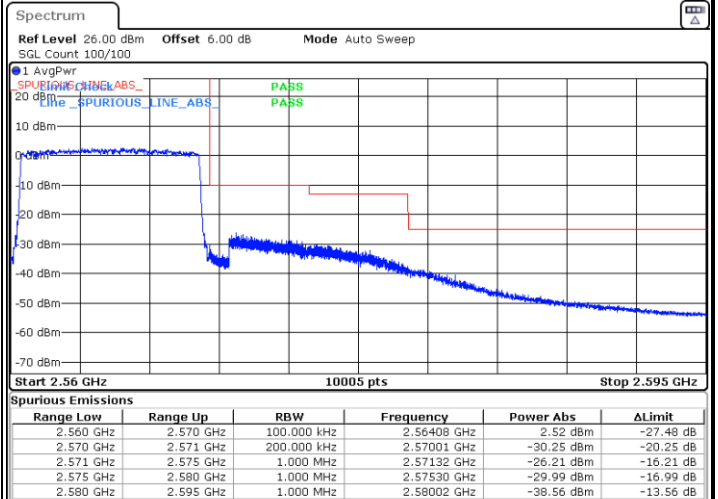
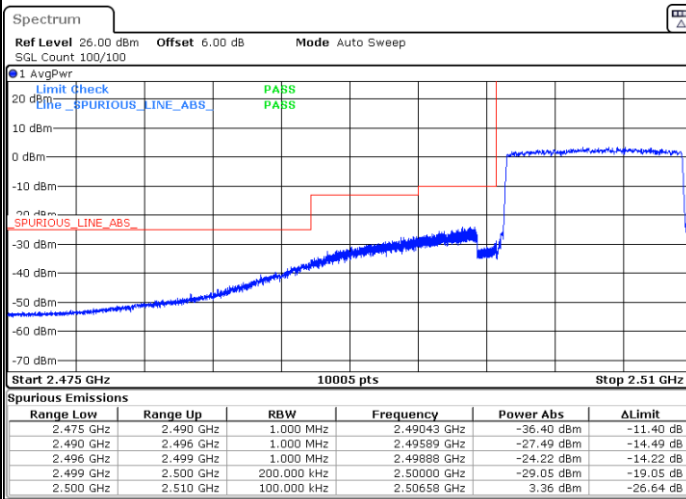


Date: 29.APR.2022 08:10:14

Date: 29.APR.2022 08:23:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.APR.2022 08:13:21

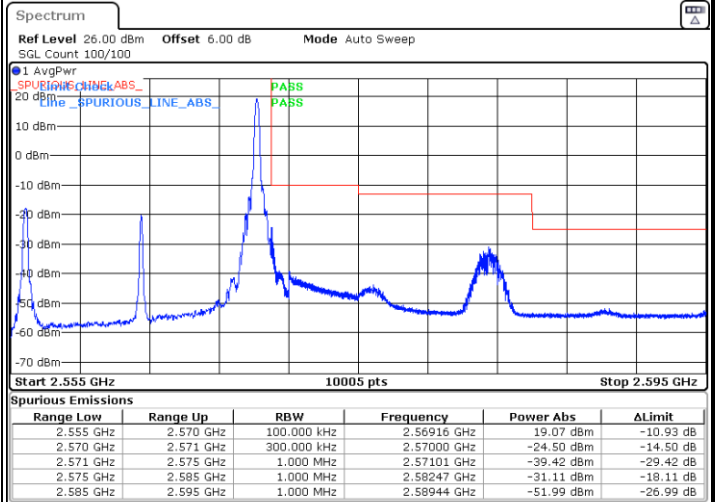
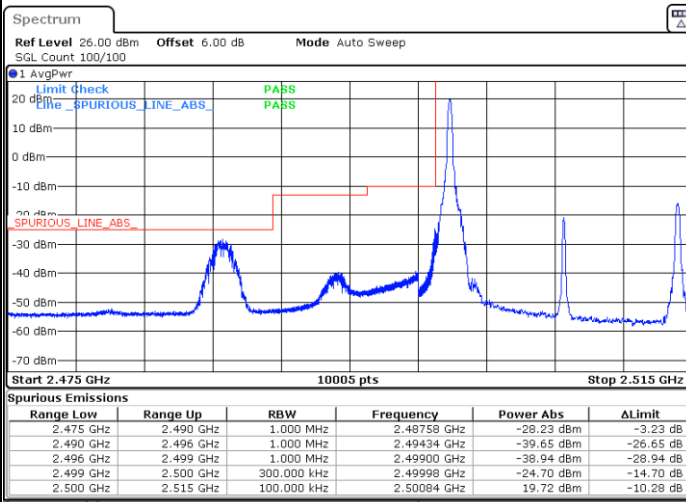
Date: 29.APR.2022 08:24:27



LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

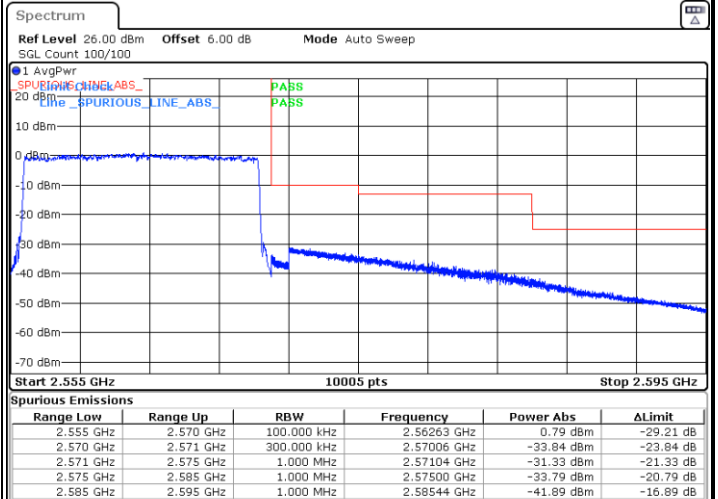
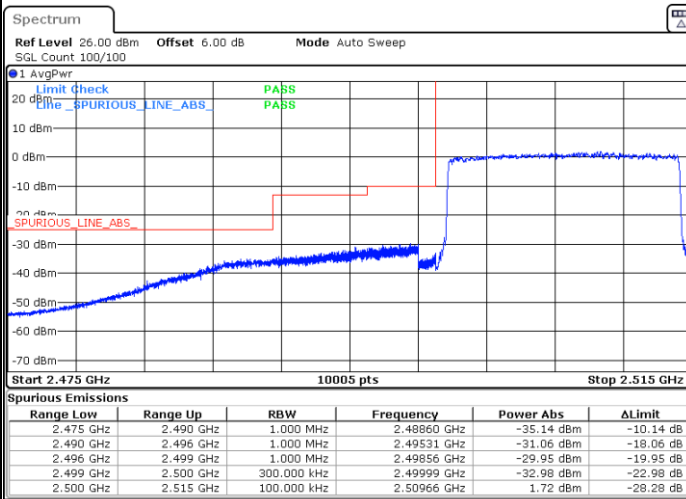


Date: 29.APR.2022 08:29:51

Date: 29.APR.2022 08:40:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.APR.2022 08:36:49

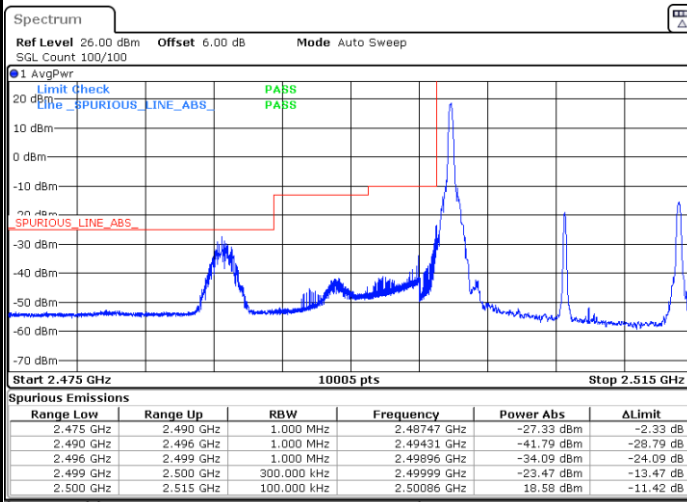
Date: 29.APR.2022 08:47:54





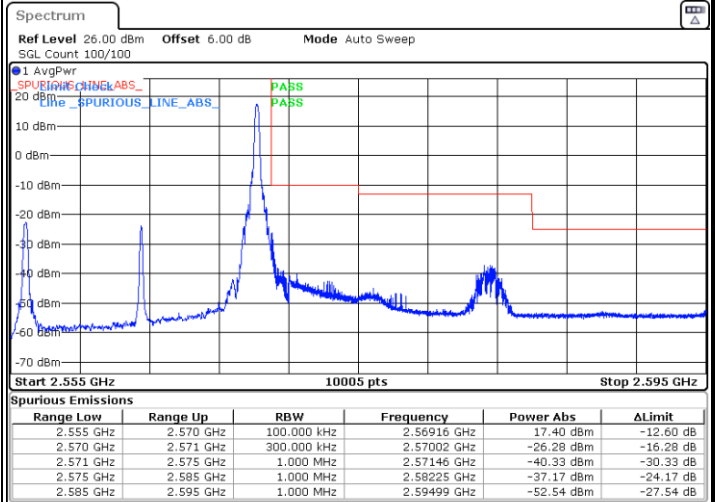
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



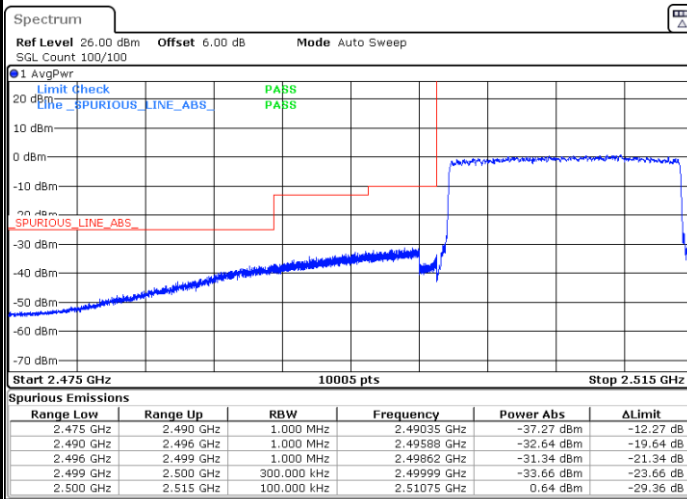
Date: 29.APR.2022 08:31:14

Highest Band Edge / 1 RB



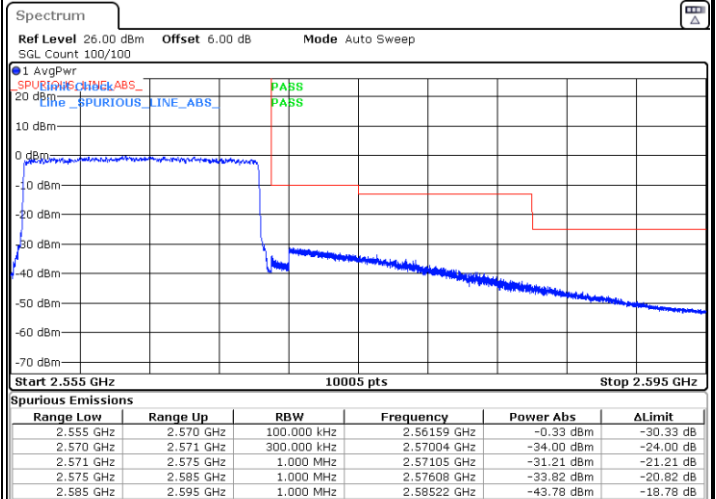
Date: 29.APR.2022 08:42:21

Lowest Band Edge / Full RB



Date: 29.APR.2022 08:35:25

Highest Band Edge / Full RB



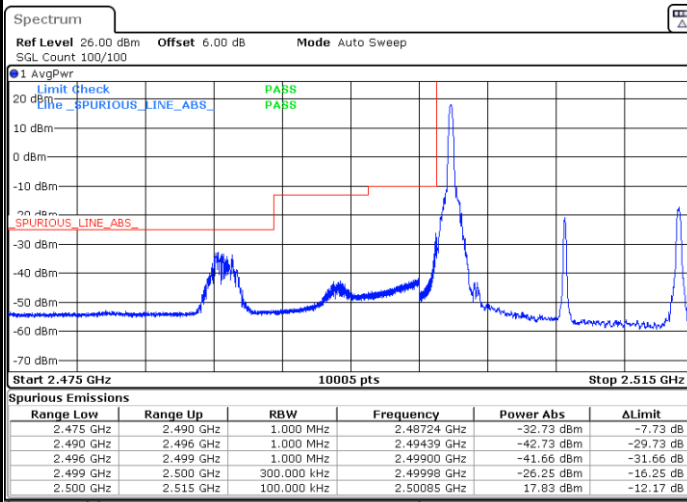
Date: 29.APR.2022 08:46:31





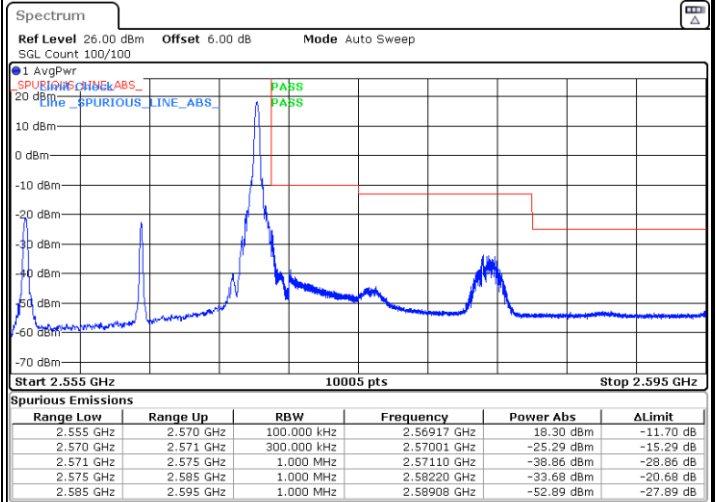
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



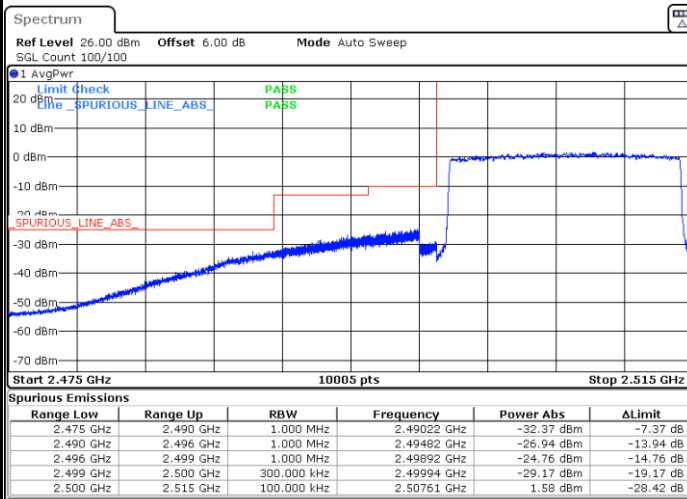
Date: 29.APR.2022 08:32:38

Highest Band Edge / 1 RB



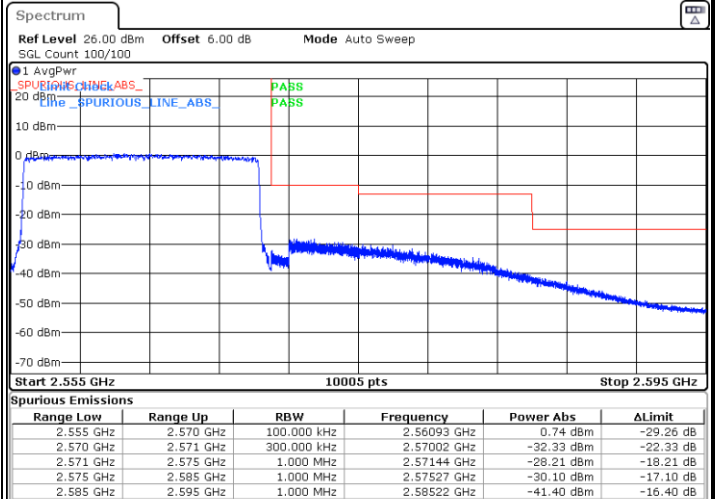
Date: 29.APR.2022 08:43:44

Lowest Band Edge / Full RB



Date: 29.APR.2022 08:34:02

Highest Band Edge / Full RB

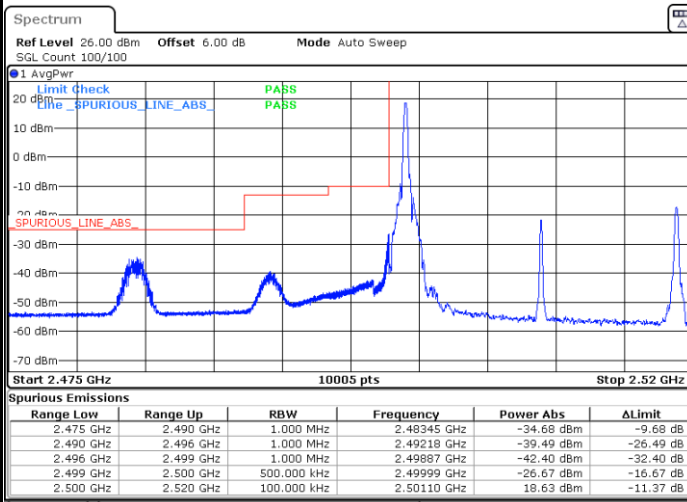


Date: 29.APR.2022 08:45:07



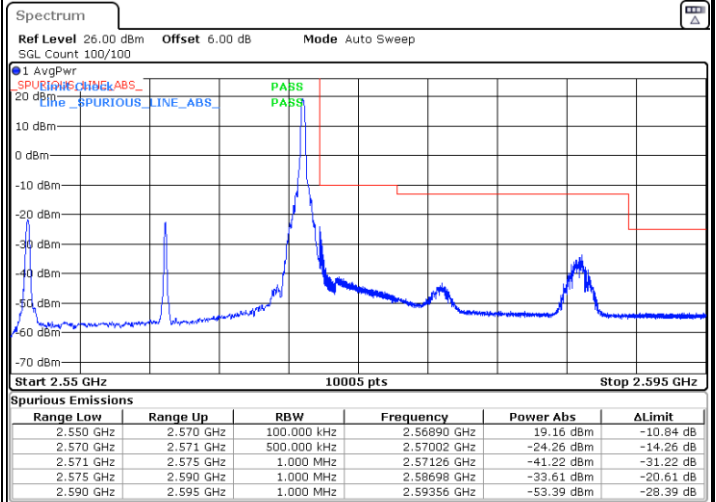
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



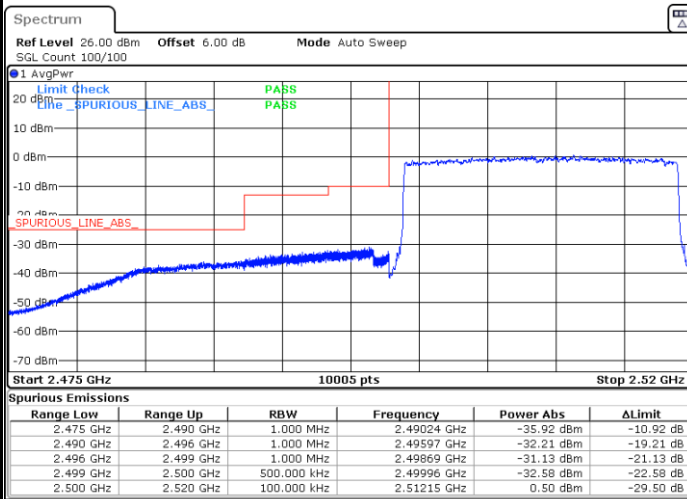
Date: 29.APR.2022 08:50:31

Highest Band Edge / 1 RB



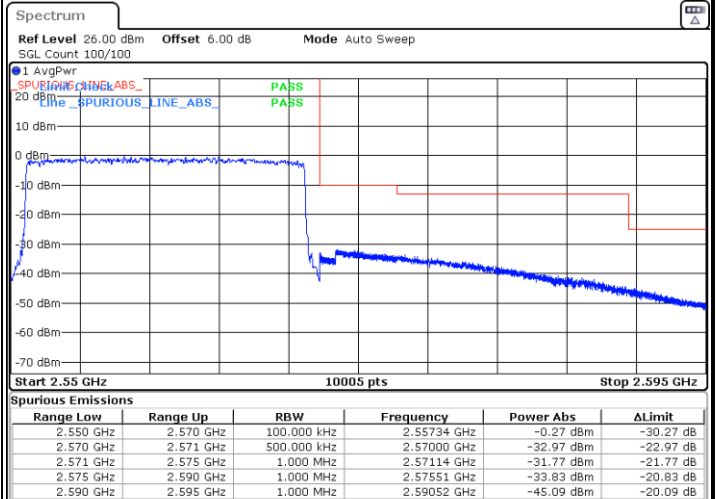
Date: 29.APR.2022 09:01:38

Lowest Band Edge / Full RB



Date: 29.APR.2022 08:57:29

Highest Band Edge / Full RB

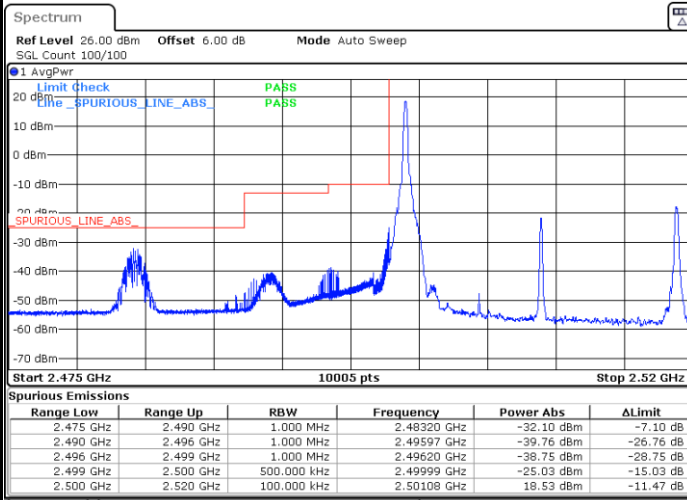


Date: 29.APR.2022 09:08:35



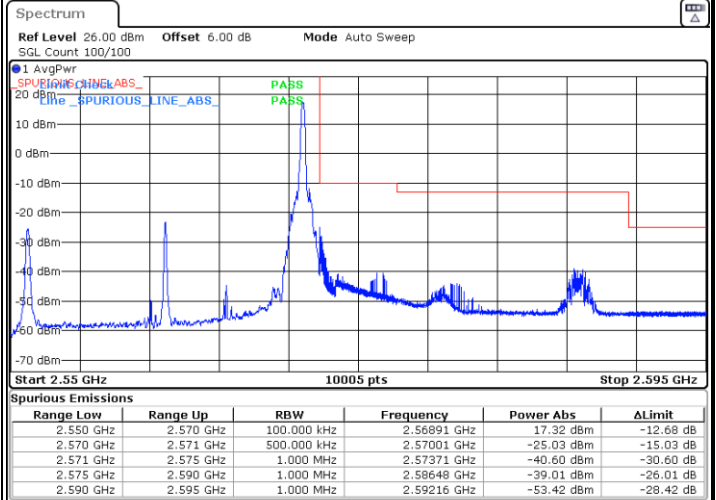
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



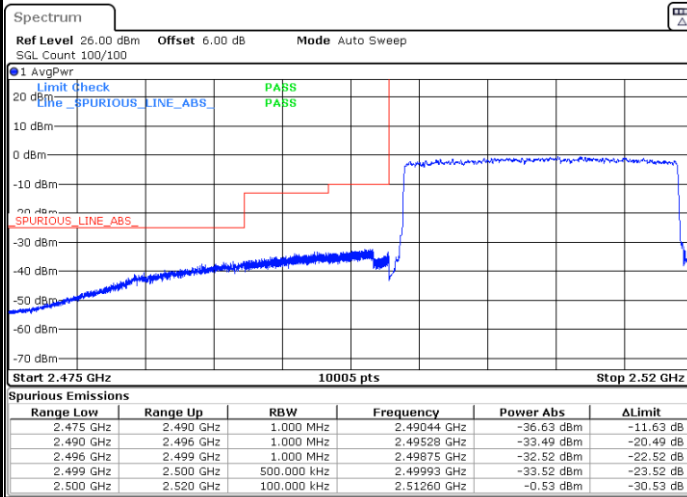
Date: 29.APR.2022 09:51:55

Highest Band Edge / 1 RB



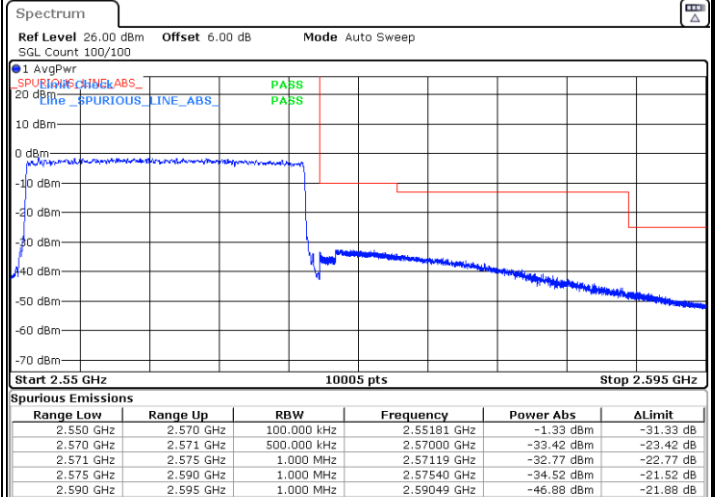
Date: 29.APR.2022 09:03:02

Lowest Band Edge / Full RB



Date: 29.APR.2022 08:56:05

Highest Band Edge / Full RB

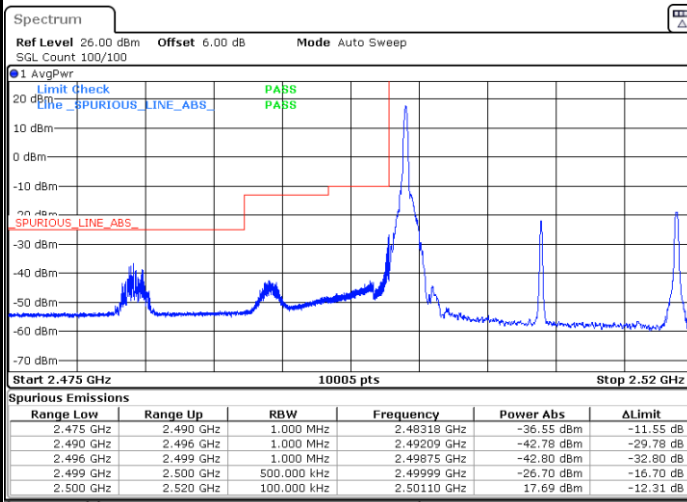


Date: 29.APR.2022 09:07:11



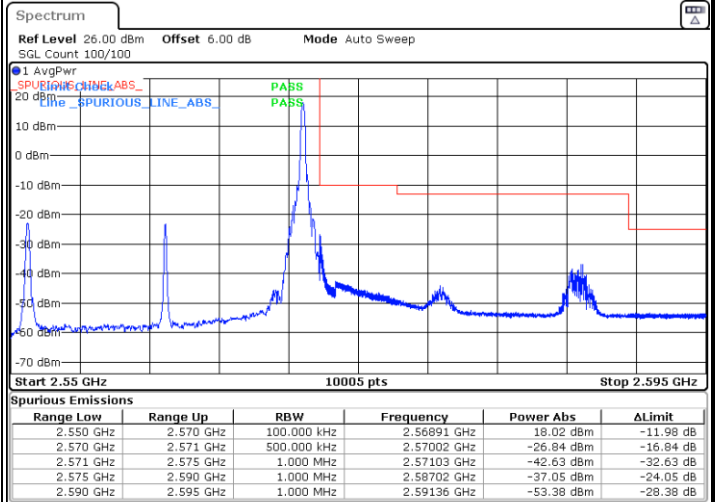
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



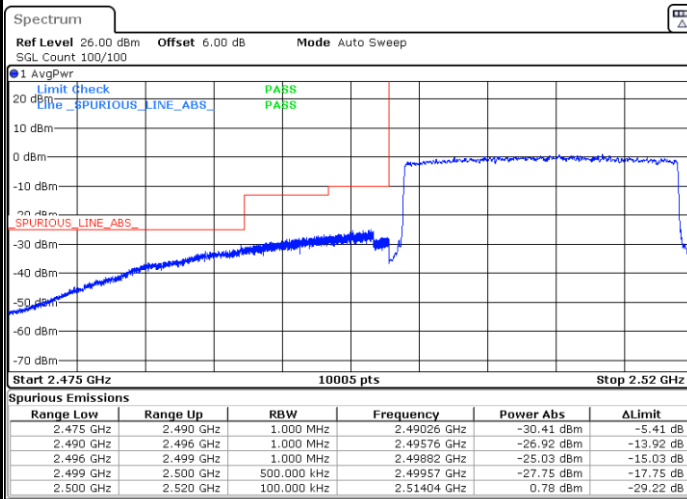
Date: 29.APR.2022 09:53:18

Highest Band Edge / 1 RB



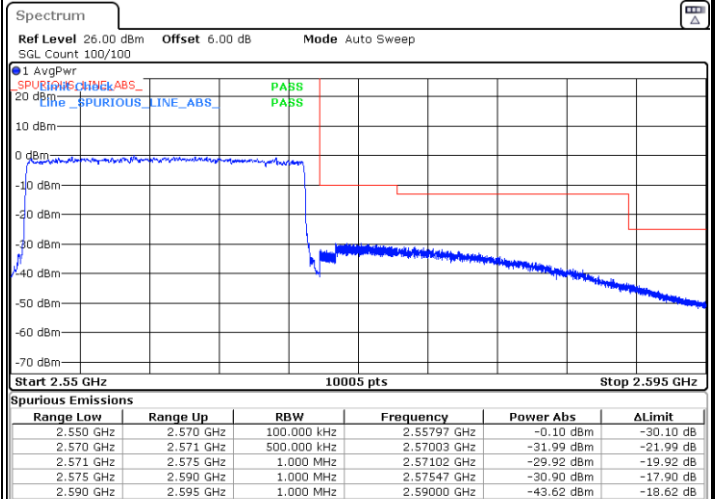
Date: 29.APR.2022 09:04:25

Lowest Band Edge / Full RB



Date: 29.APR.2022 08:54:42

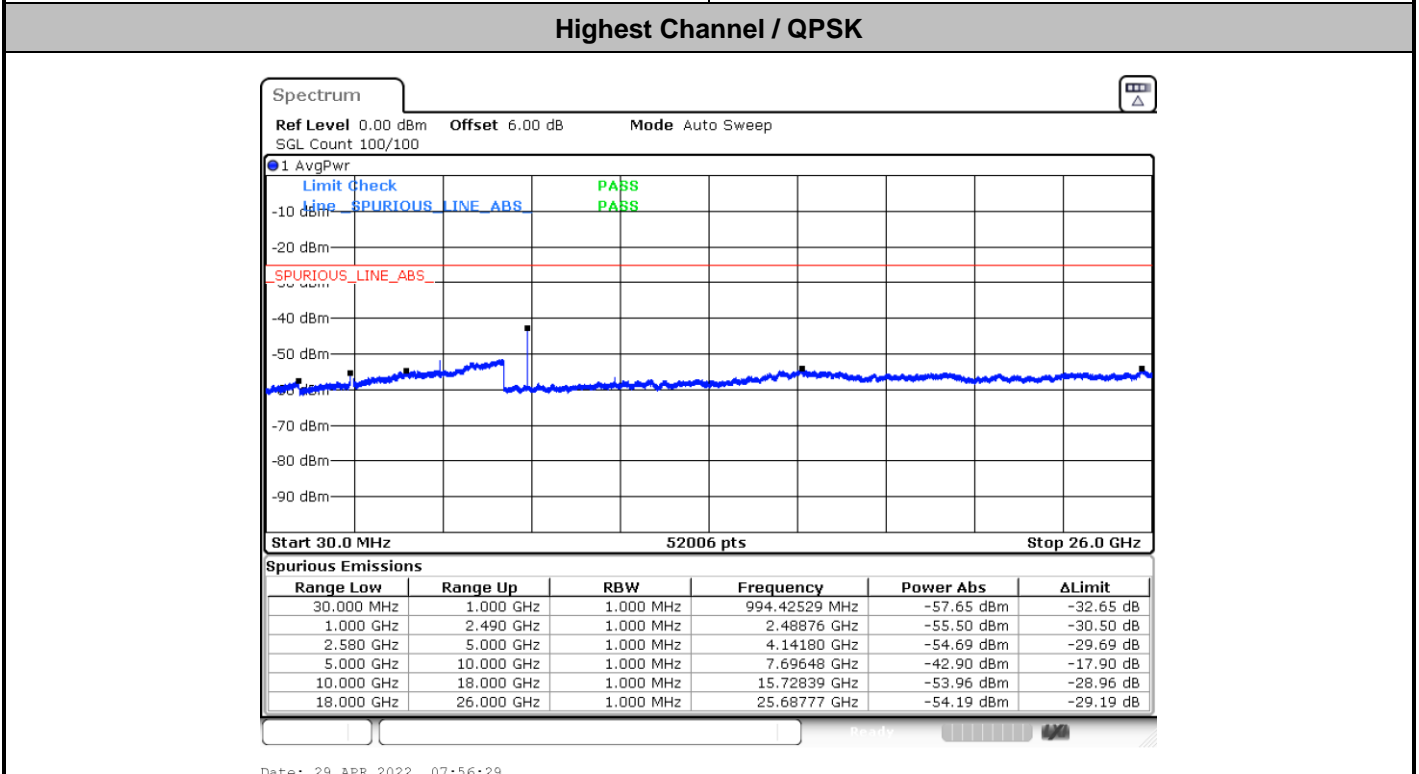
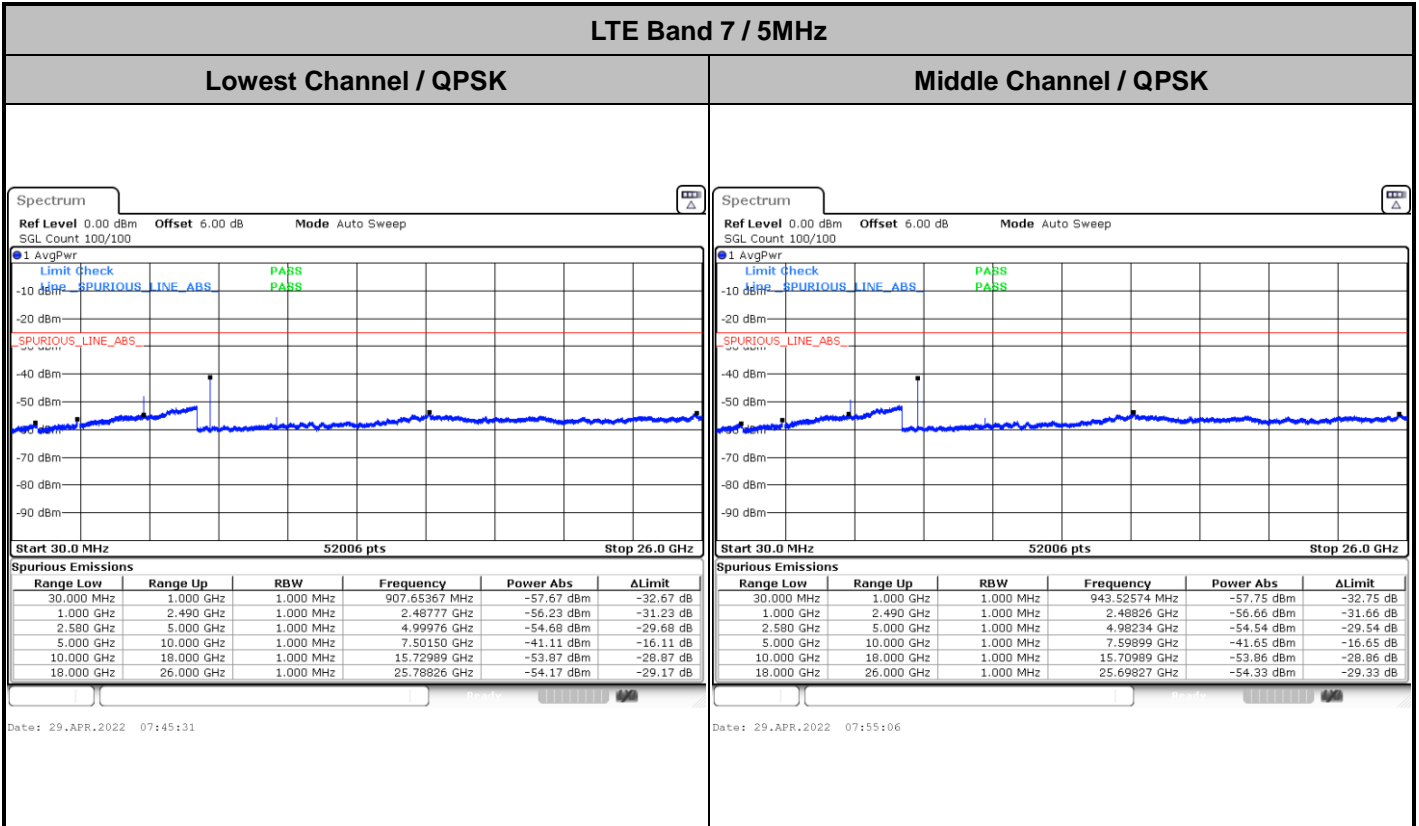
Highest Band Edge / Full RB



Date: 29.APR.2022 09:05:48



# Conducted Spurious Emission

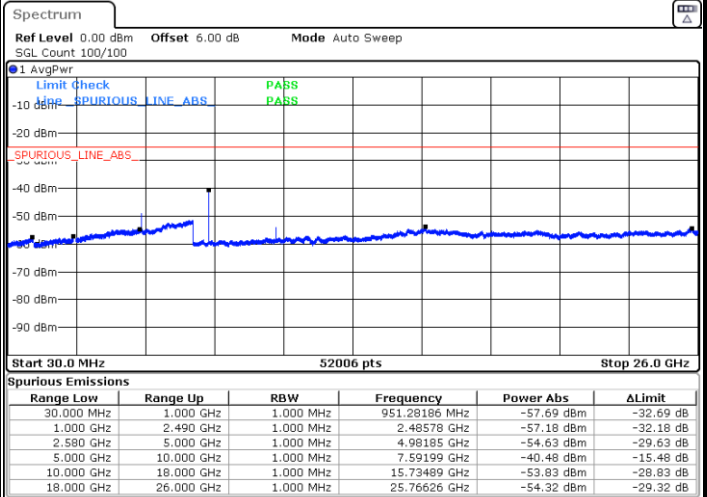
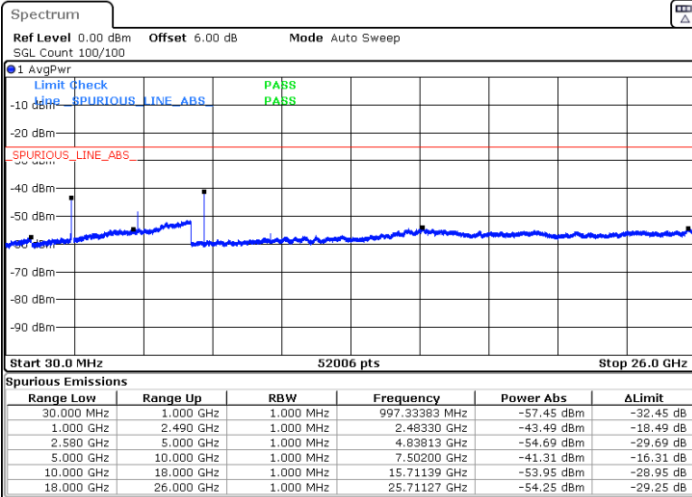




LTE Band 7 / 10MHz

Lowest Channel / QPSK

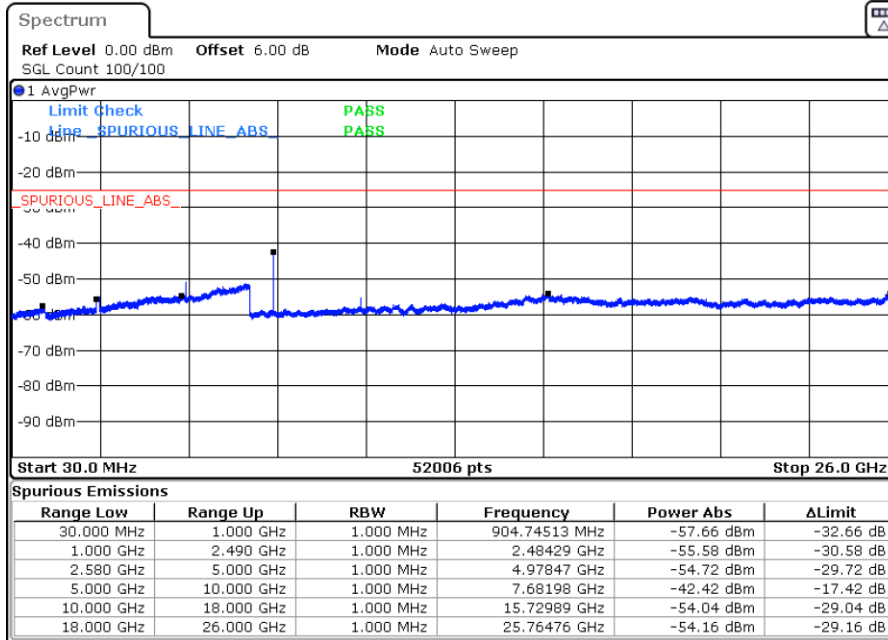
Middle Channel / QPSK



Date: 29.APR.2022 08:06:12

Date: 29.APR.2022 08:17:30

Highest Channel / QPSK



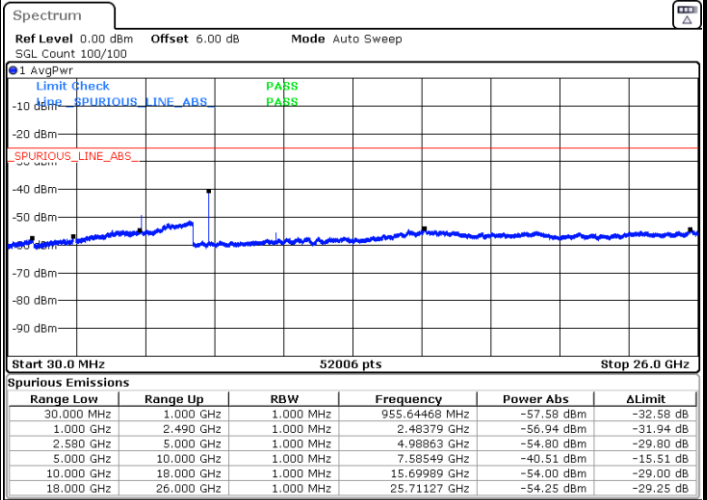
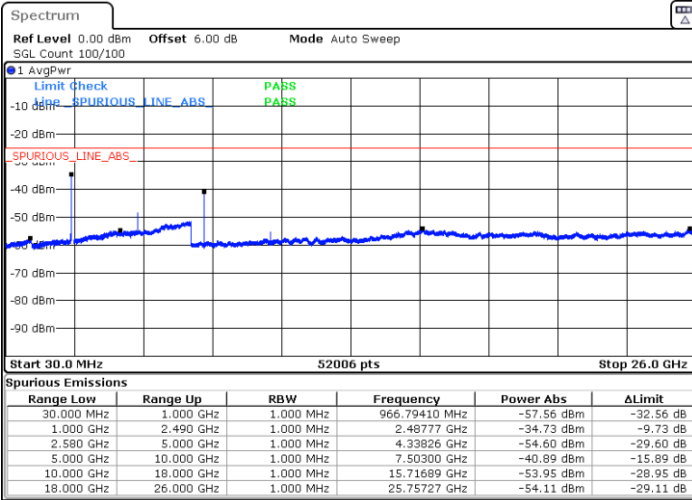
Date: 29.APR.2022 08:18:53



LTE Band 7 / 15MHz

Lowest Channel / QPSK

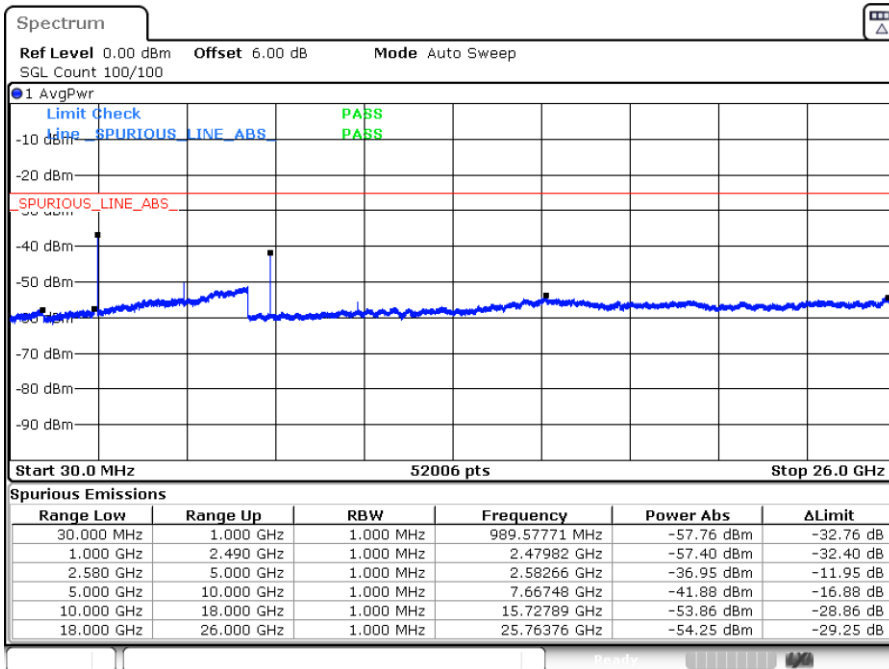
Middle Channel / QPSK



Date: 29.APR.2022 08:28:36

Date: 29.APR.2022 08:38:11

Highest Channel / QPSK

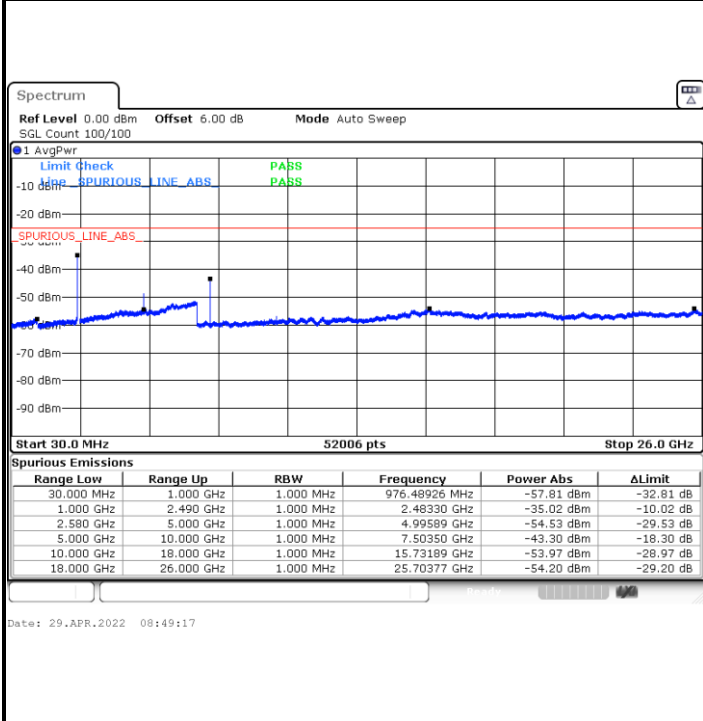


Date: 29.APR.2022 08:39:33

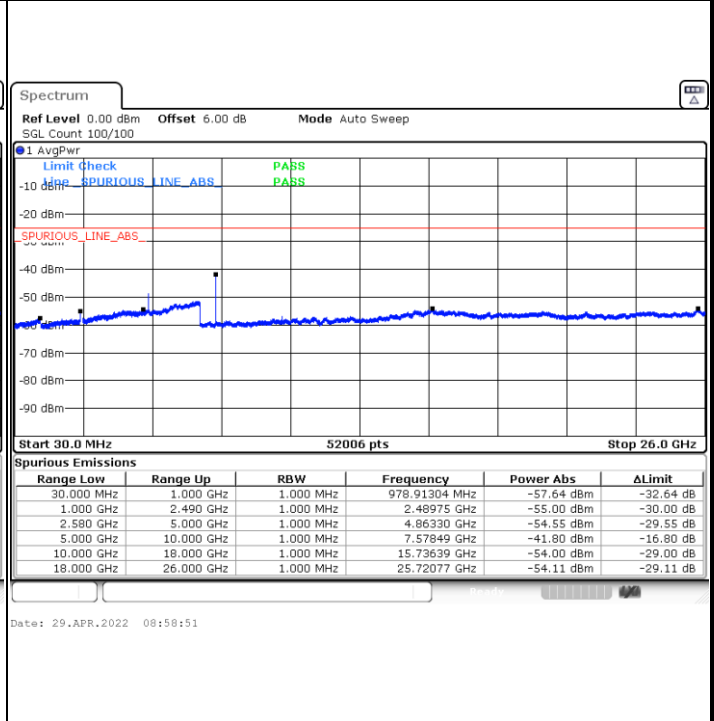


**LTE Band 7 / 20MHz**

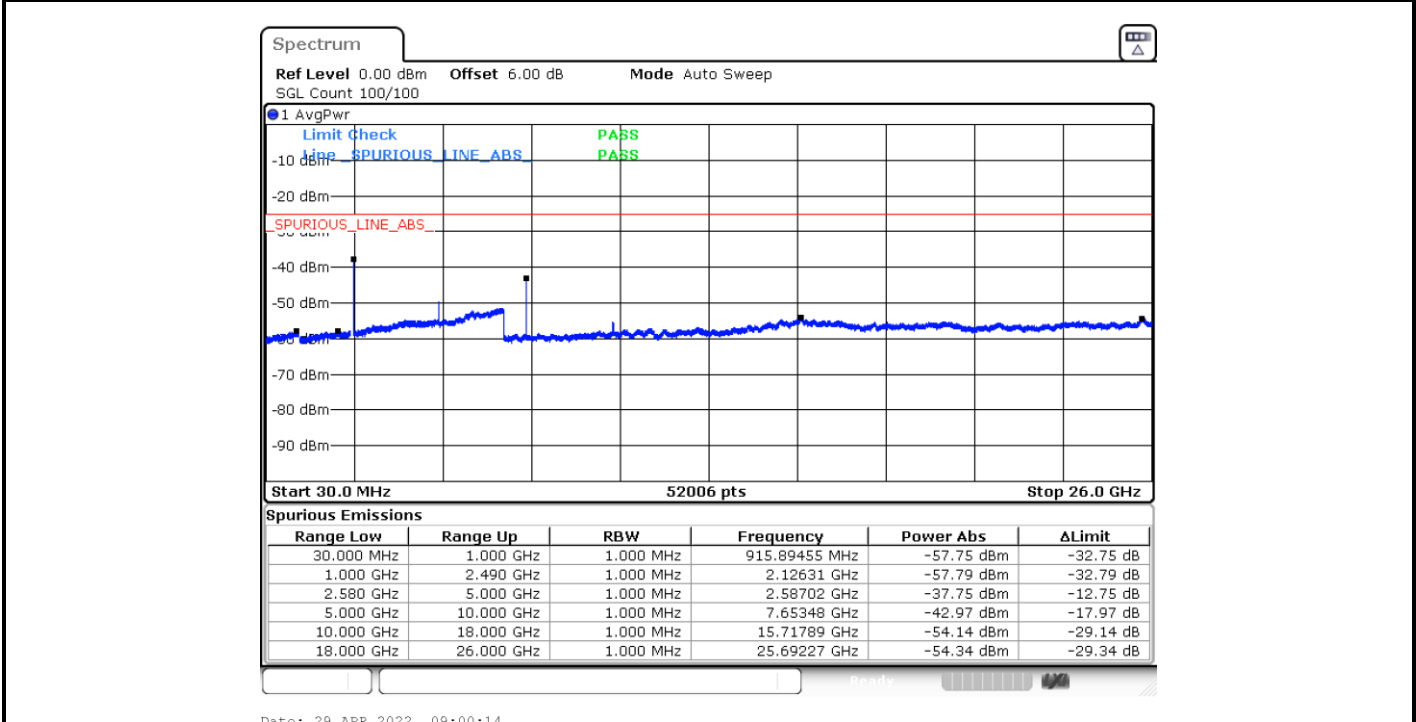
**Lowest Channel / QPSK**



**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	0.0102	PASS
40	Normal Voltage	0.0107	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0098	
0	Normal Voltage	0.0073	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0077	
20	Maximum Voltage	0.0089	
20	Normal Voltage	0.0033	
20	Battery End Point	0.0036	

Note:

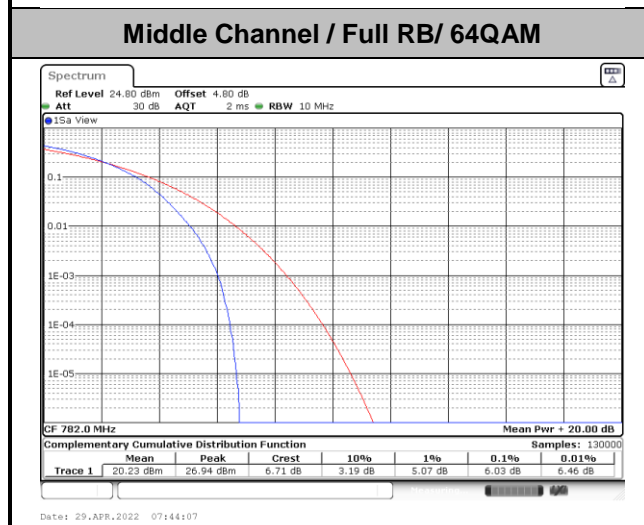
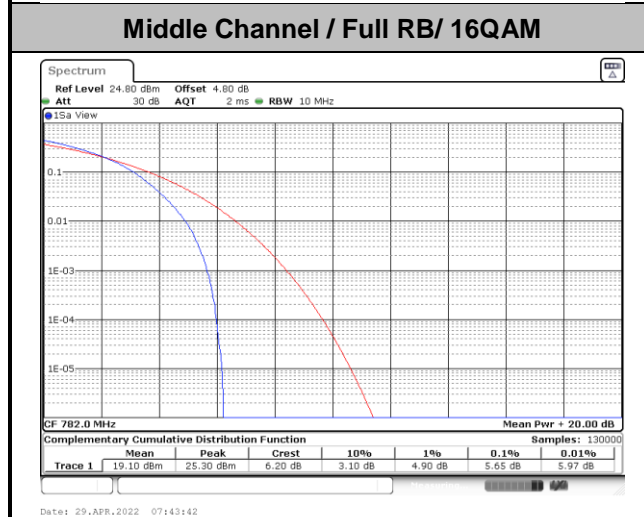
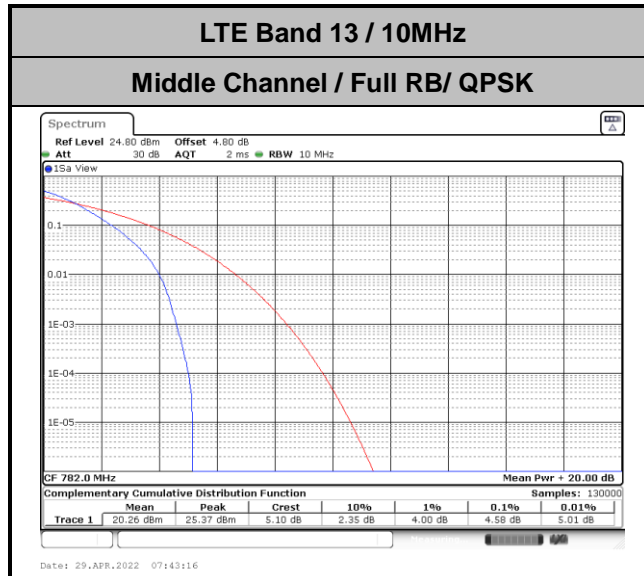
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 13

### Peak-to-Average Ratio

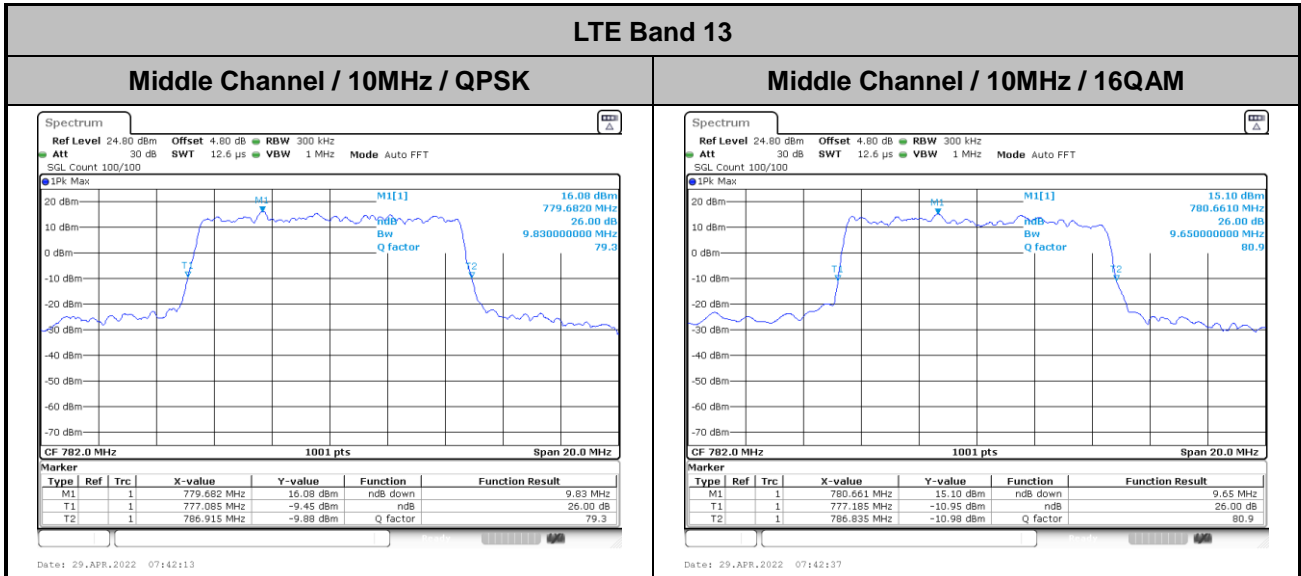
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.65	6.03	<b>PASS</b>





## 26dB Bandwidth

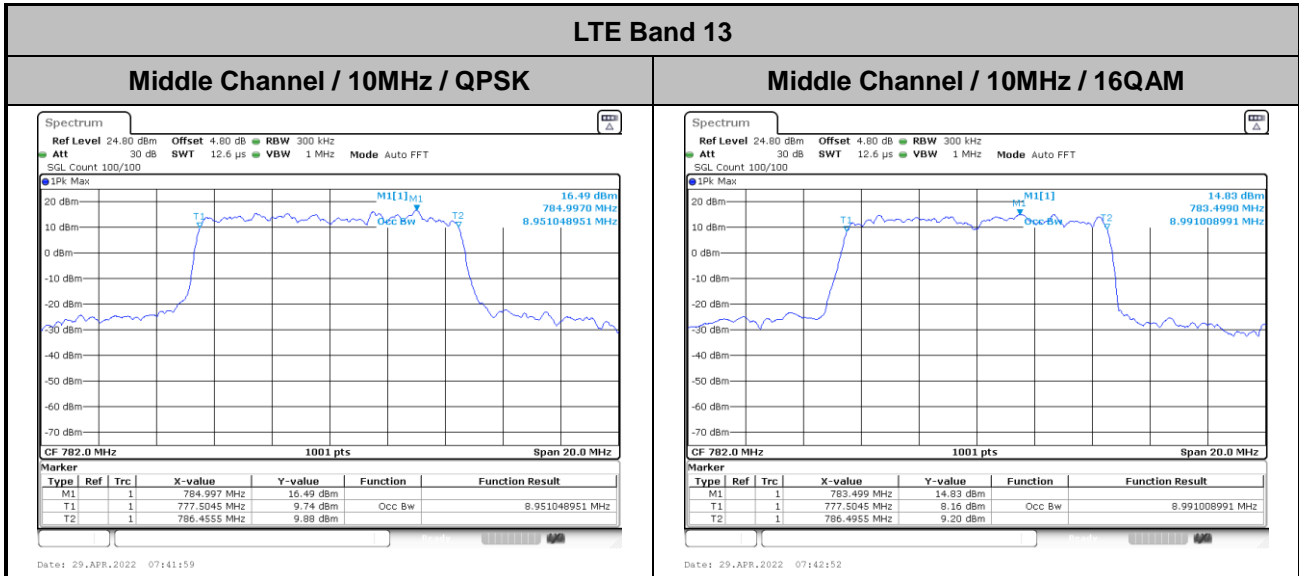
<b>Mode</b>	<b>LTE Band 13 : 26dB BW(MHz)</b>	
<b>BW</b>	<b>10MHz</b>	
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>
<b>Middle CH</b>	9.83	9.65





# Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.95	8.99

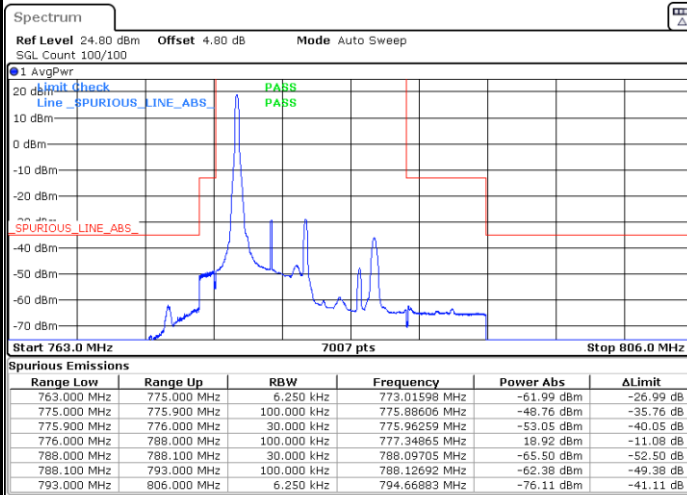




# Conducted Band Edge

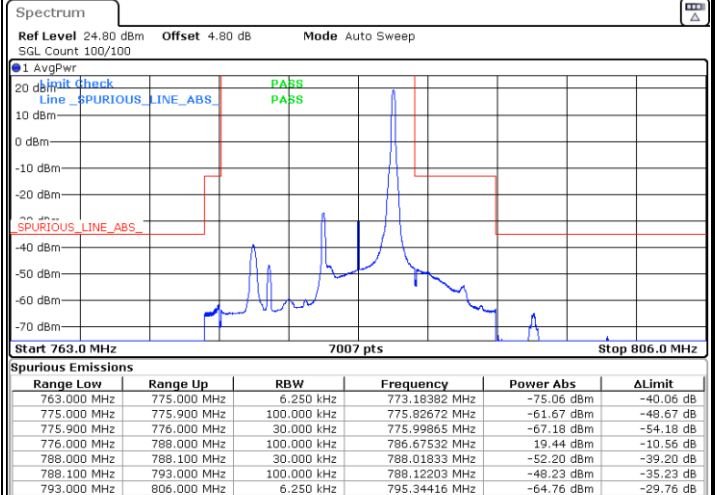
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



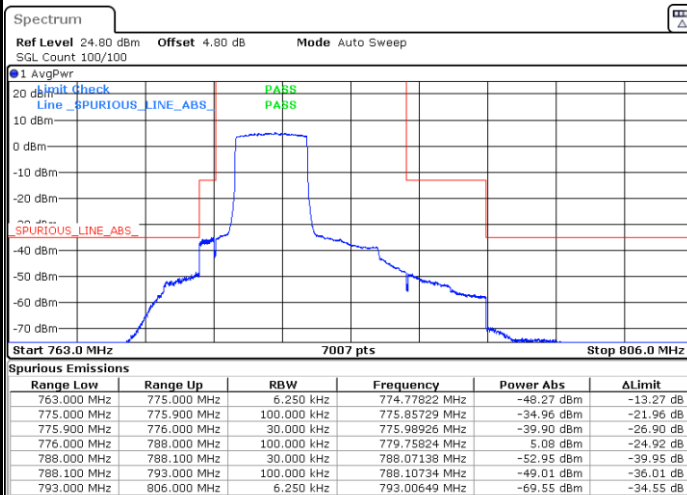
Date: 29.APR.2022 06:59:56

### Highest Band Edge / 1 RB



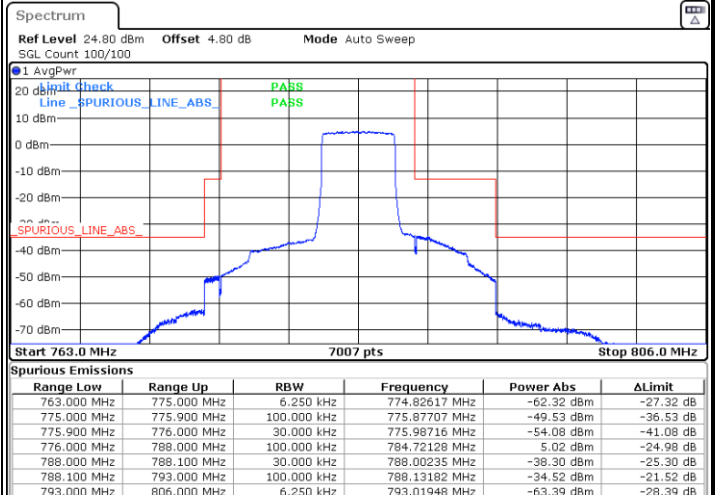
Date: 29.APR.2022 07:14:03

### Lowest Band Edge / Full RB



Date: 29.APR.2022 07:09:21

### Highest Band Edge / Full RB

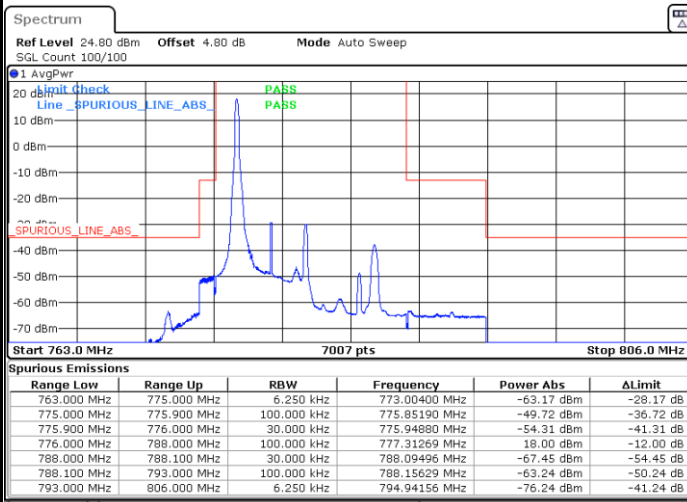


Date: 29.APR.2022 07:23:28



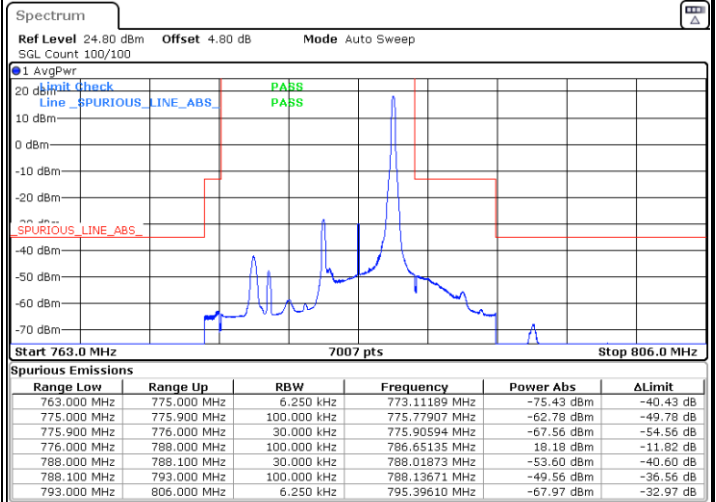
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



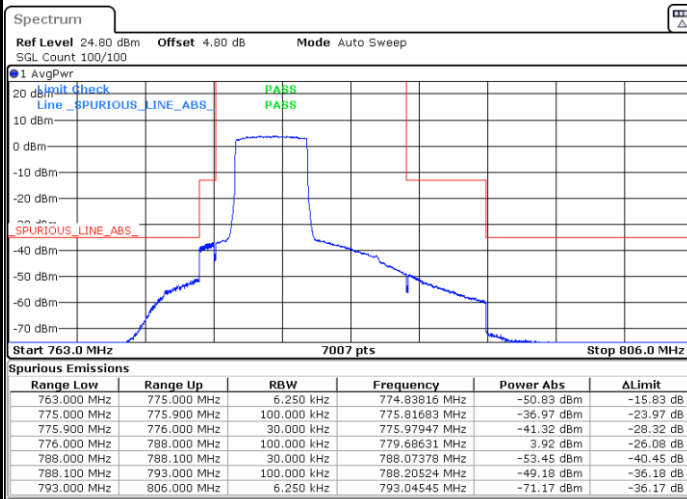
Date: 29.APR.2022 07:01:49

Highest Band Edge / 1 RB



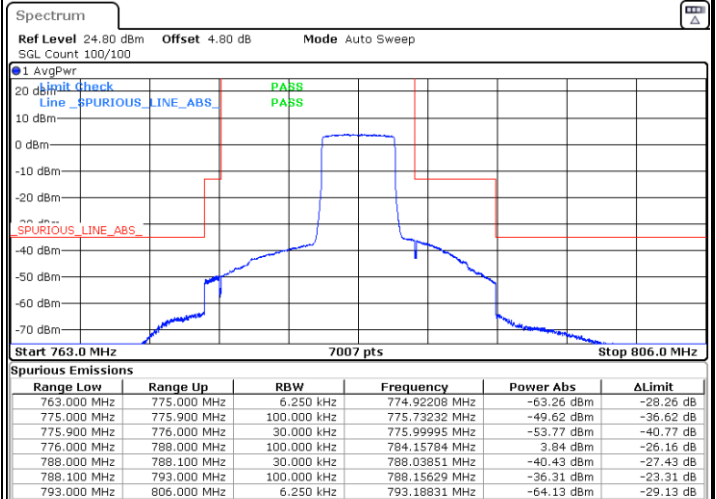
Date: 29.APR.2022 07:15:56

Lowest Band Edge / Full RB



Date: 29.APR.2022 07:07:28

Highest Band Edge / Full RB

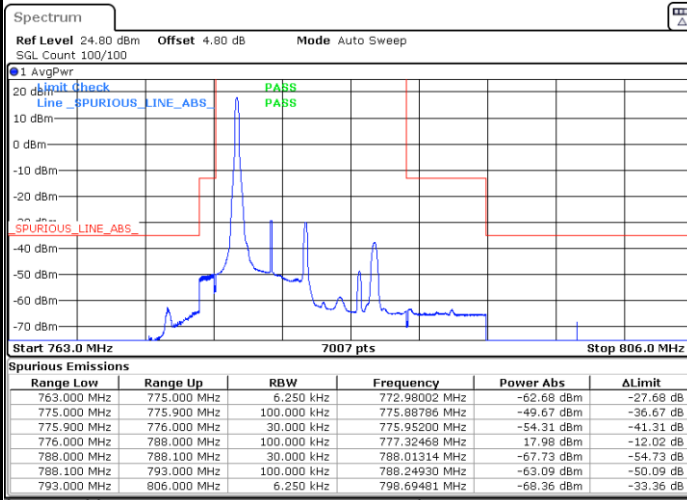


Date: 29.APR.2022 07:21:35



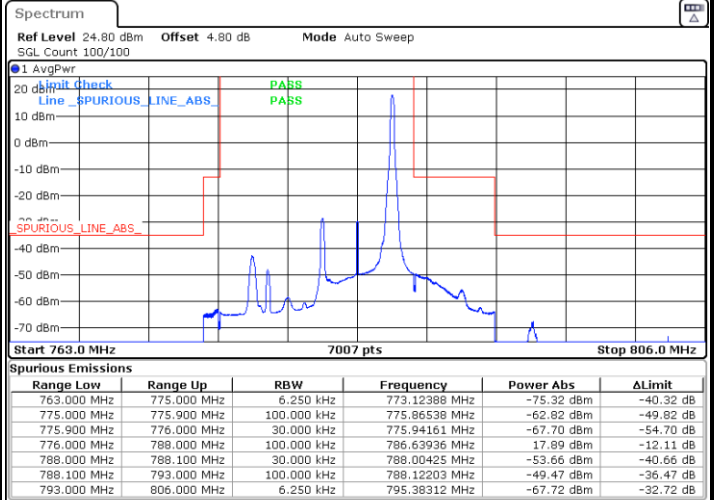
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



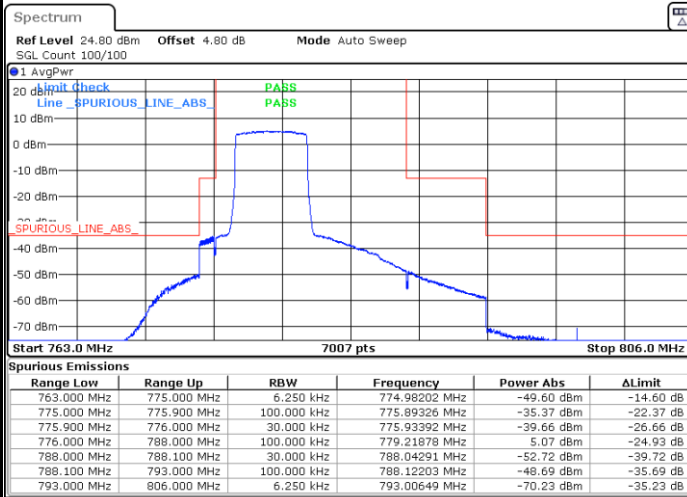
Date: 29.APR.2022 07:03:42

Highest Band Edge / 1 RB



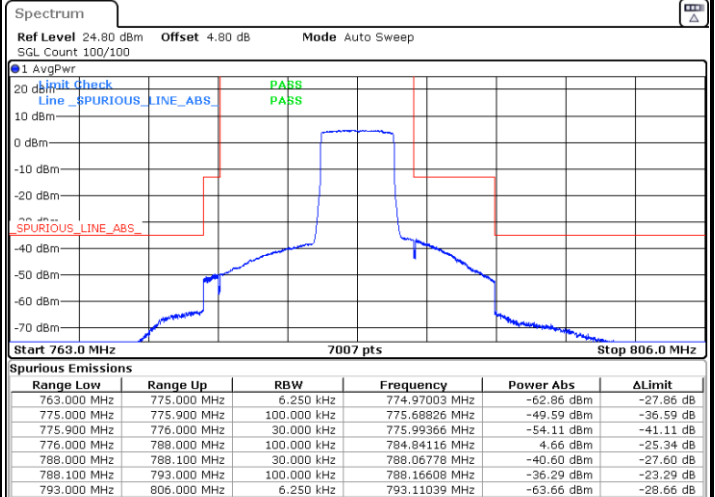
Date: 29.APR.2022 07:17:49

Lowest Band Edge / Full RB



Date: 29.APR.2022 07:05:35

Highest Band Edge / Full RB



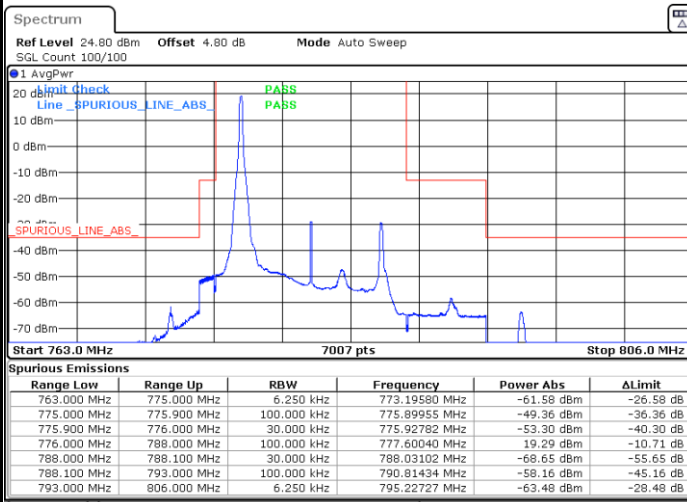
Date: 29.APR.2022 07:19:42





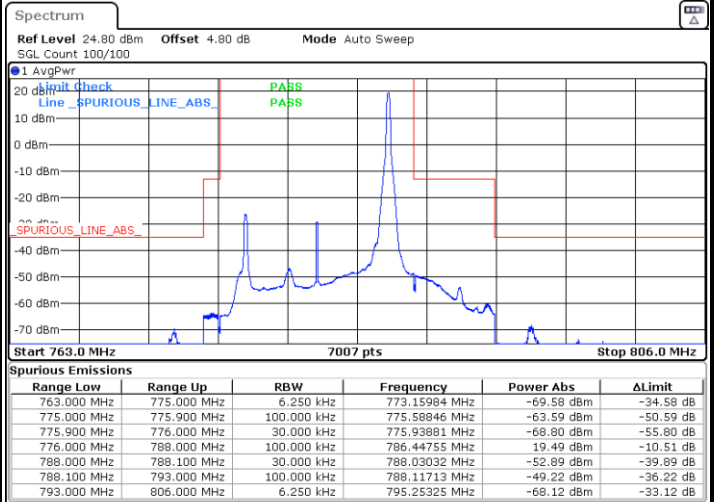
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



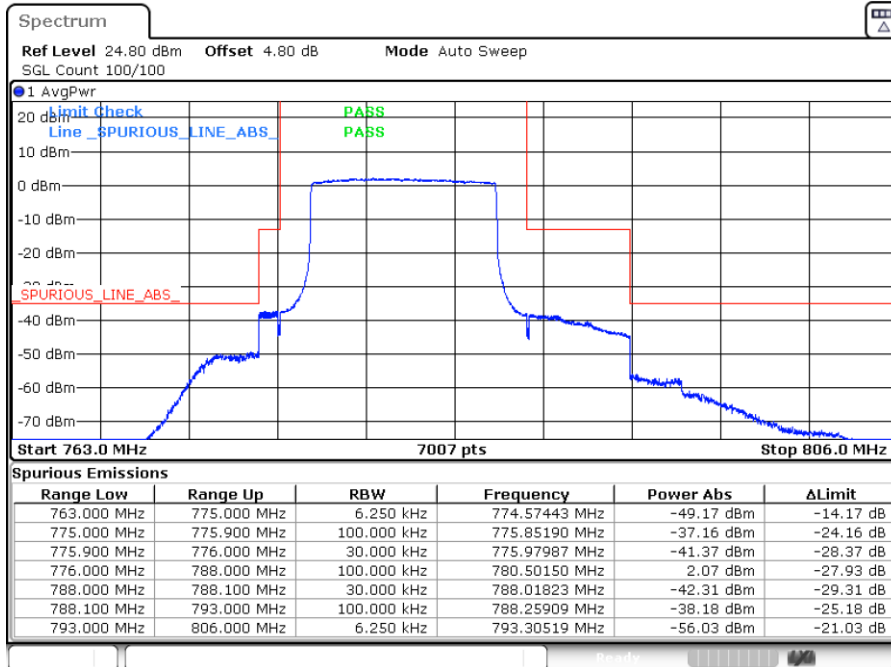
Date: 29.APR.2022 07:26:36

middle Band Edge / 1 RB



Date: 29.APR.2022 07:37:50

Middle Band Edge / Full RB



Date: 29.APR.2022 07:35:58