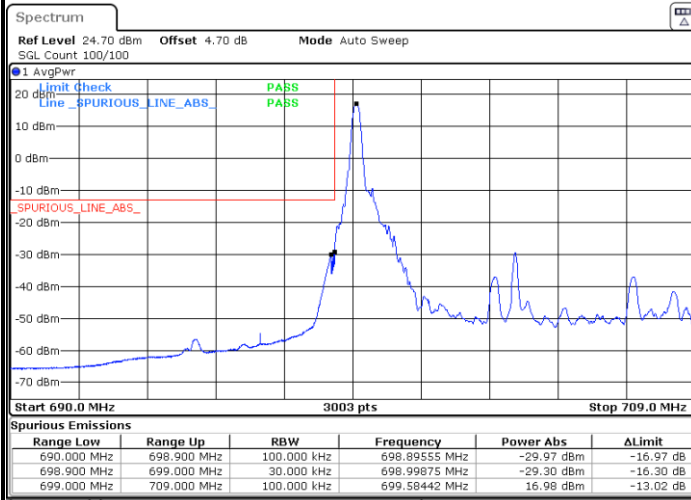


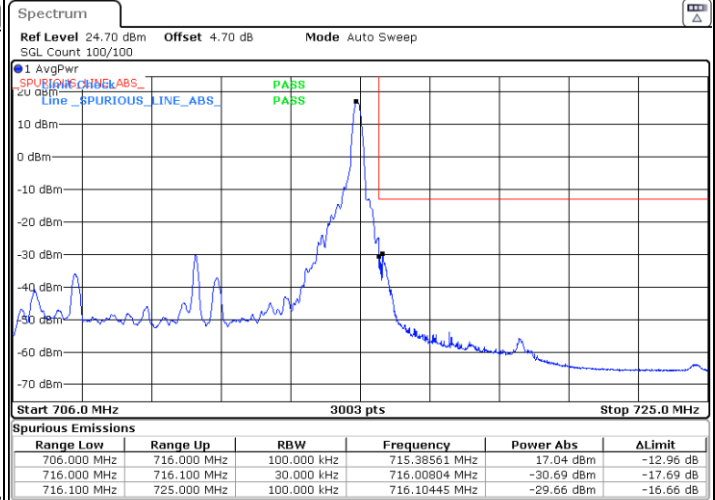


LTE Band 12 / 10MHz / 64QAM

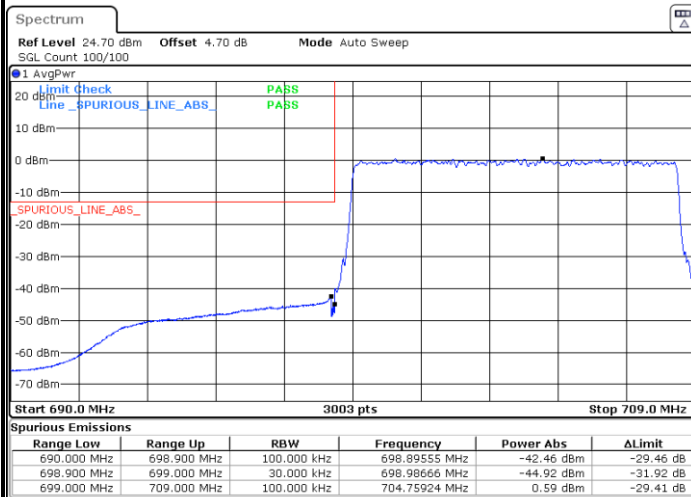
Lowest Band Edge / 1 RB



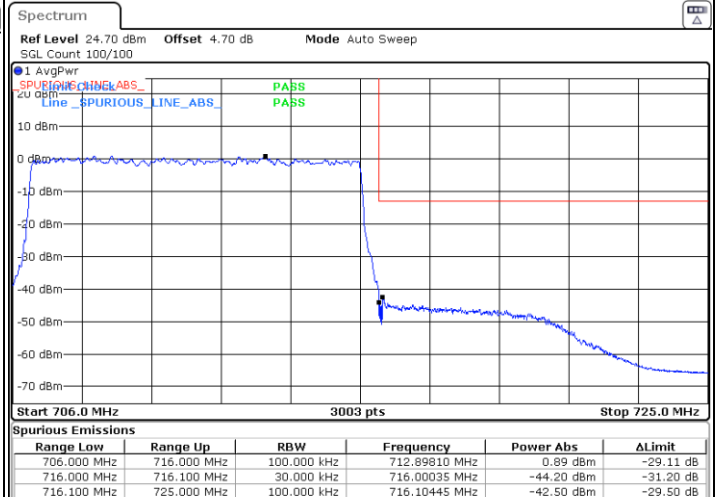
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



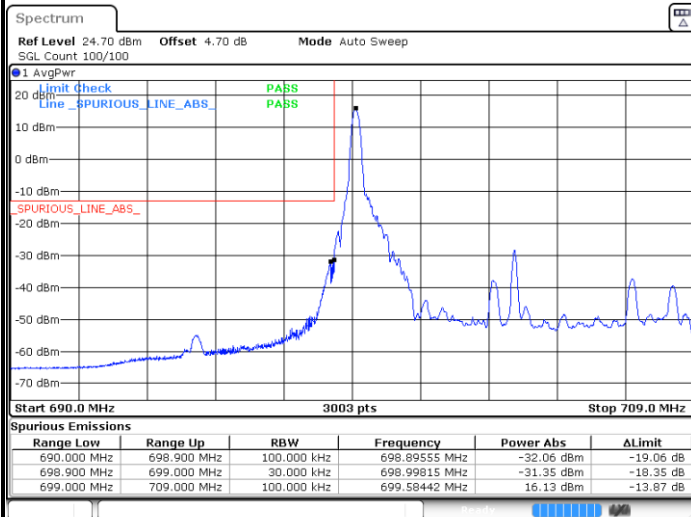
Highest Band Edge / Full RB



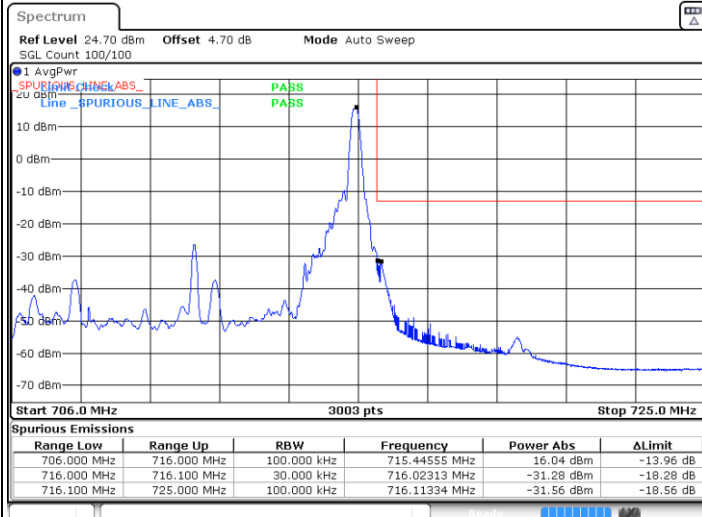


LTE Band 12 / 10MHz / 256QAM

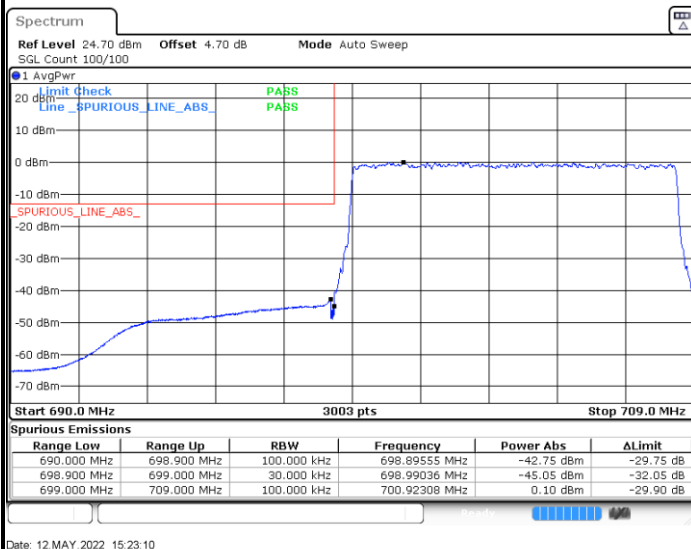
Lowest Band Edge / 1 RB



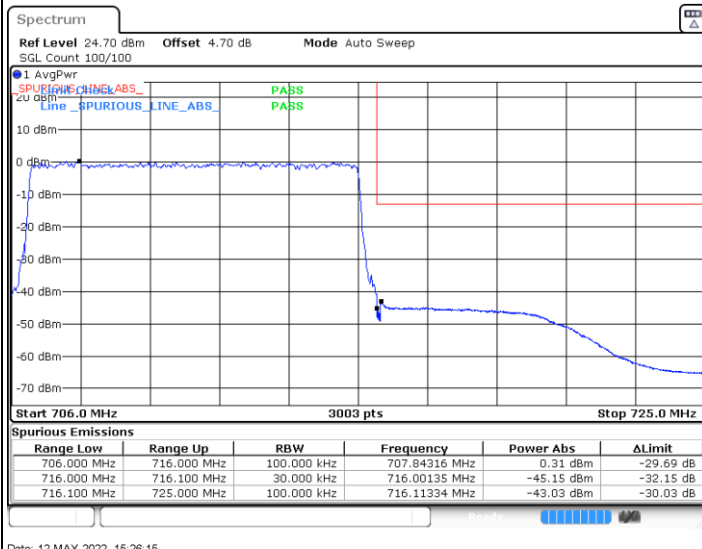
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

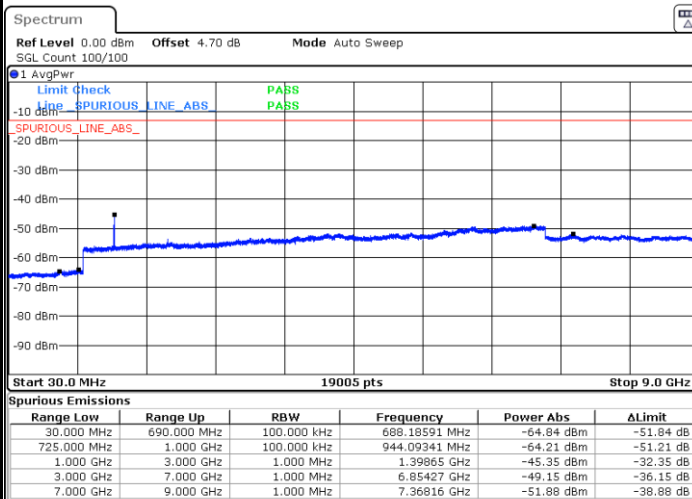




Conducted Spurious Emission

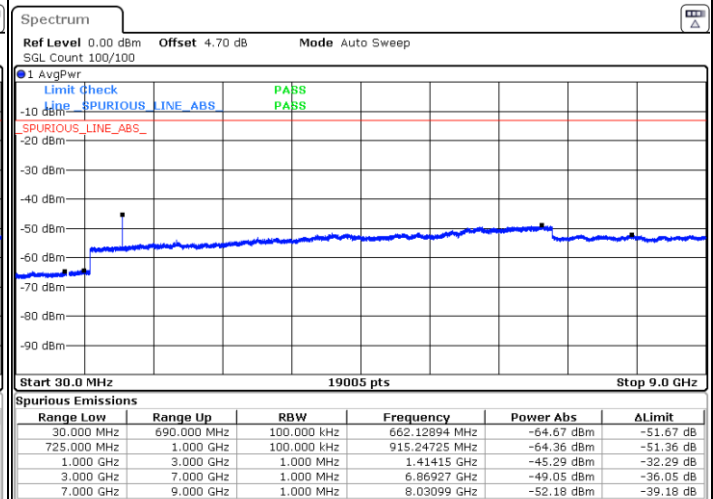
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



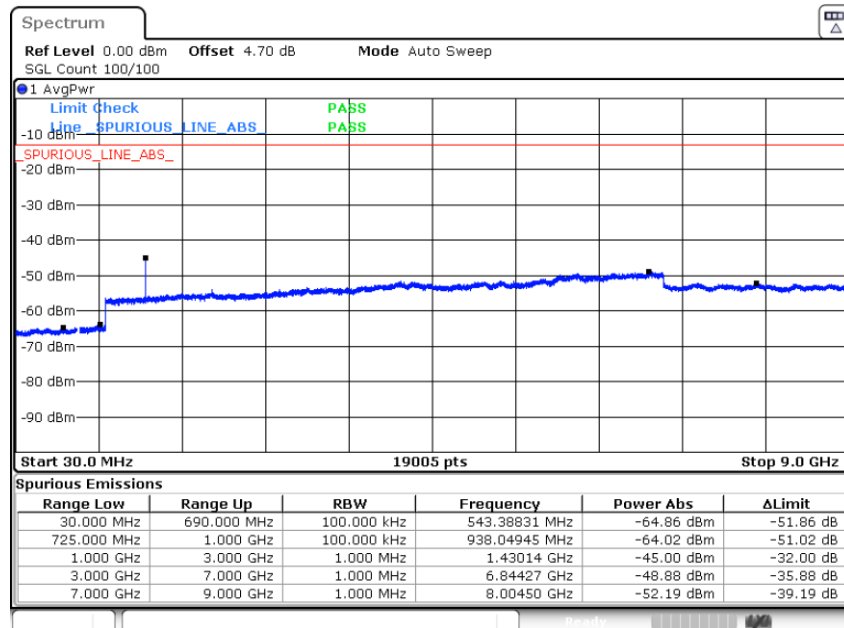
Date: 26.APR.2022 00:04:42

Middle Channel / QPSK



Date: 26.APR.2022 00:14:14

Highest Channel / QPSK

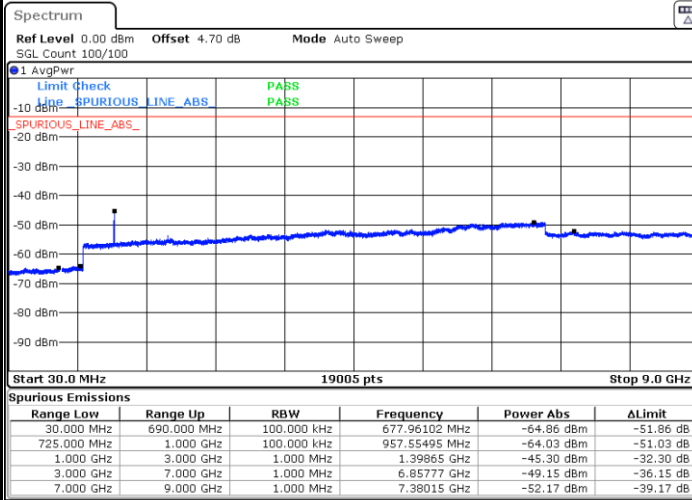


Date: 26.APR.2022 00:15:39



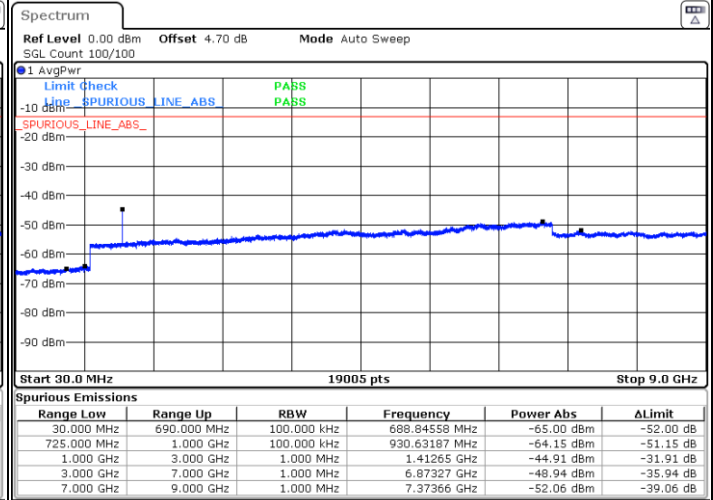
LTE Band 12 / 3MHz

Lowest Channel / QPSK



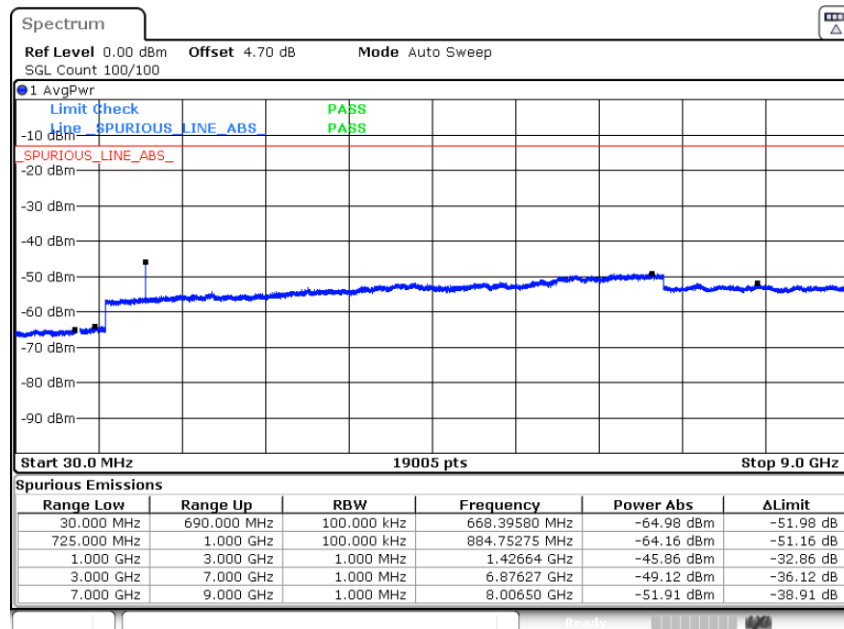
Date: 26.APR.2022 00:25:21

Middle Channel / QPSK



Date: 26.APR.2022 00:34:54

Highest Channel / QPSK

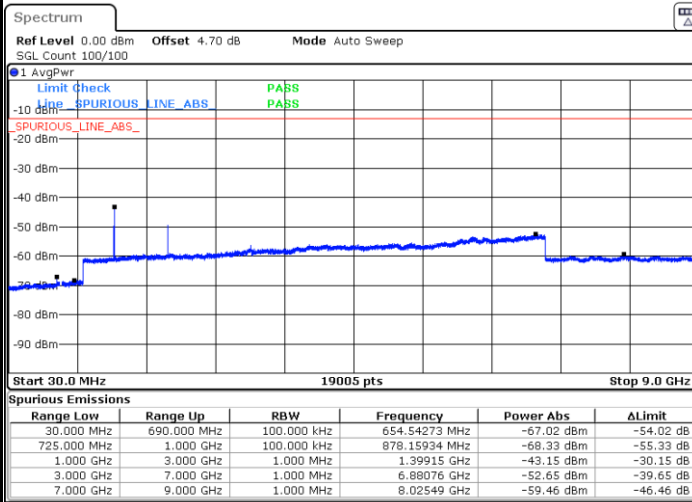


Date: 26.APR.2022 00:36:18



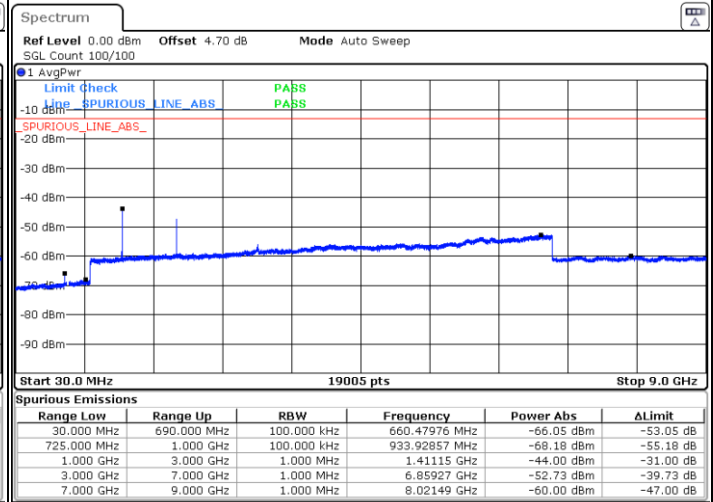
LTE Band 12 / 5MHz

Lowest Channel / QPSK



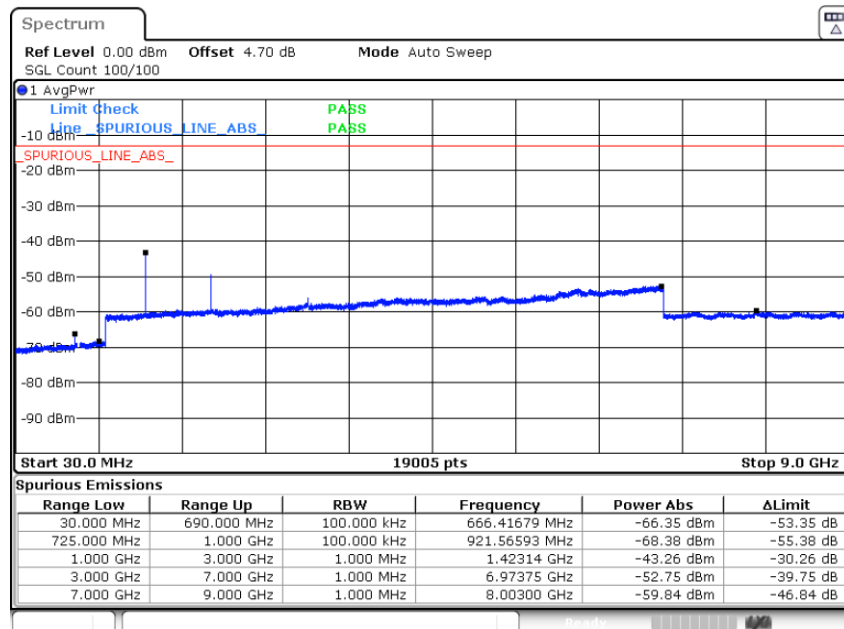
Date: 26.APR.2022 00:46:01

Middle Channel / QPSK



Date: 26.APR.2022 00:55:34

Highest Channel / QPSK

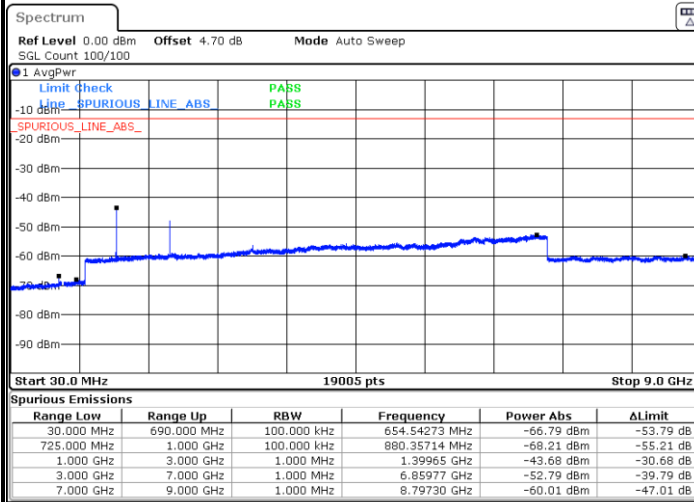


Date: 26.APR.2022 00:56:59



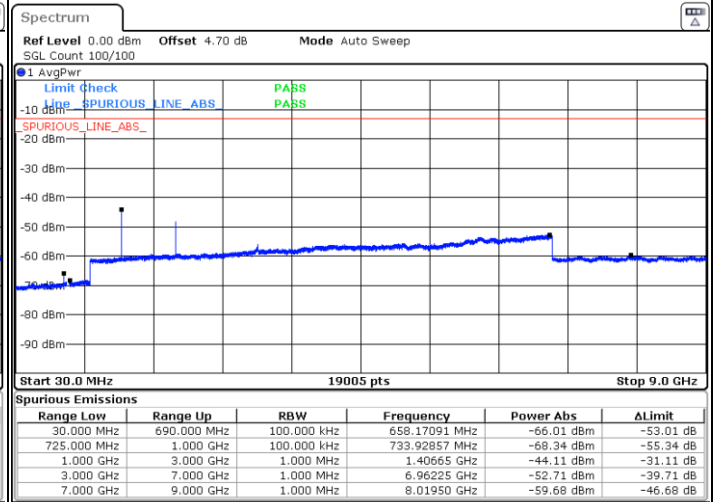
LTE Band 12 / 10MHz

Lowest Channel / QPSK



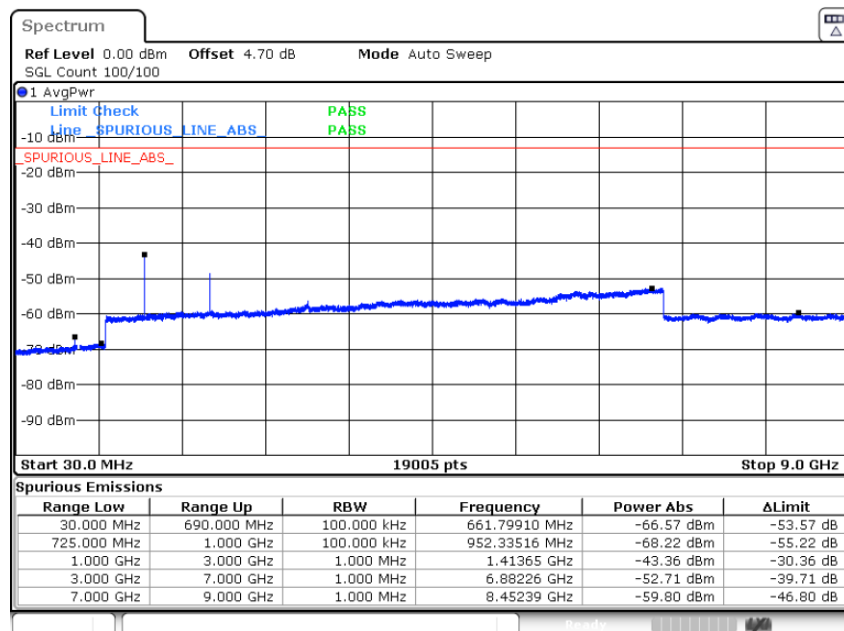
Date: 26.APR.2022 01:06:41

Middle Channel / QPSK



Date: 26.APR.2022 01:16:15

Highest Channel / QPSK



Date: 26.APR.2022 01:17:39

**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	0.0055	PASS
40	Normal Voltage	0.0280	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0049	
0	Normal Voltage	0.0191	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0201	
-30	Normal Voltage	0.0256	
20	Maximum Voltage	0.0280	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0028	

Note:

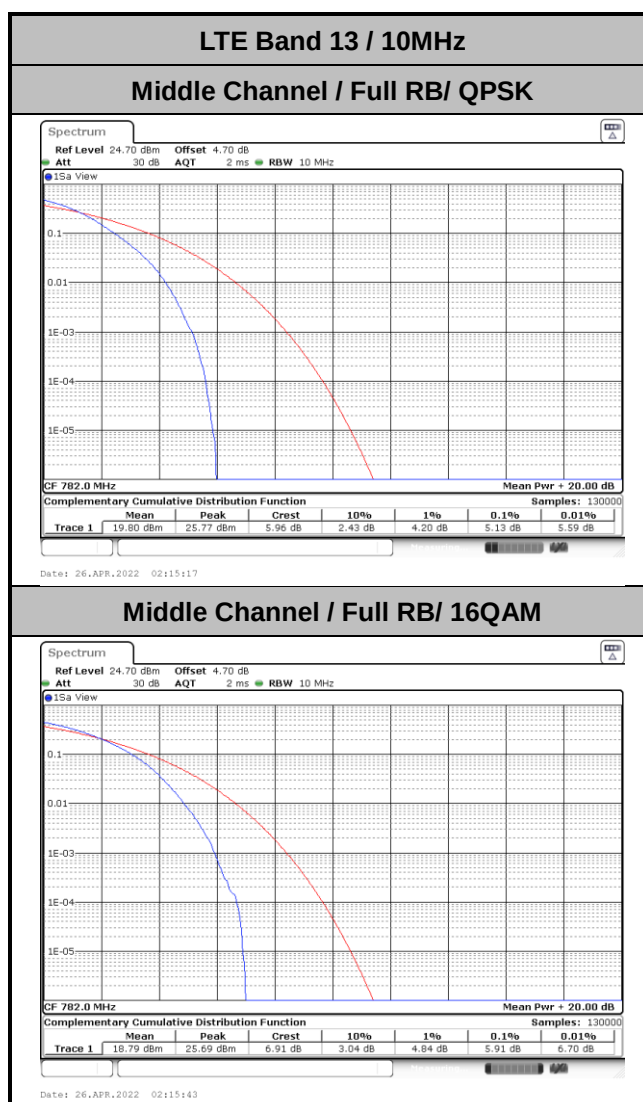
1. Normal Voltage =3.89V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

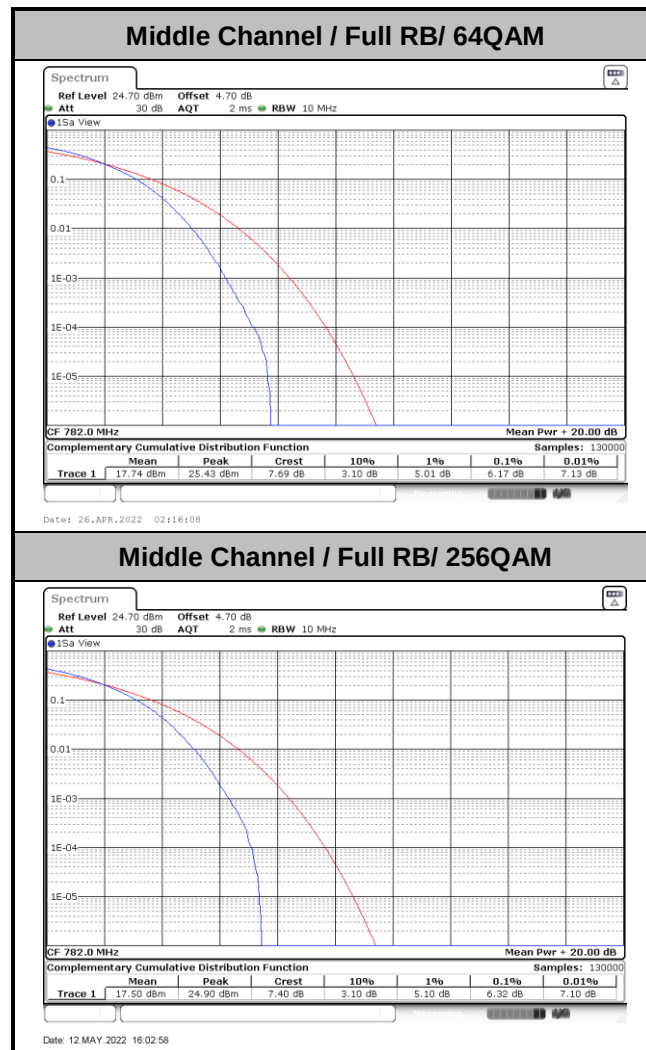


LTE Band 13

Peak-to-Average Ratio

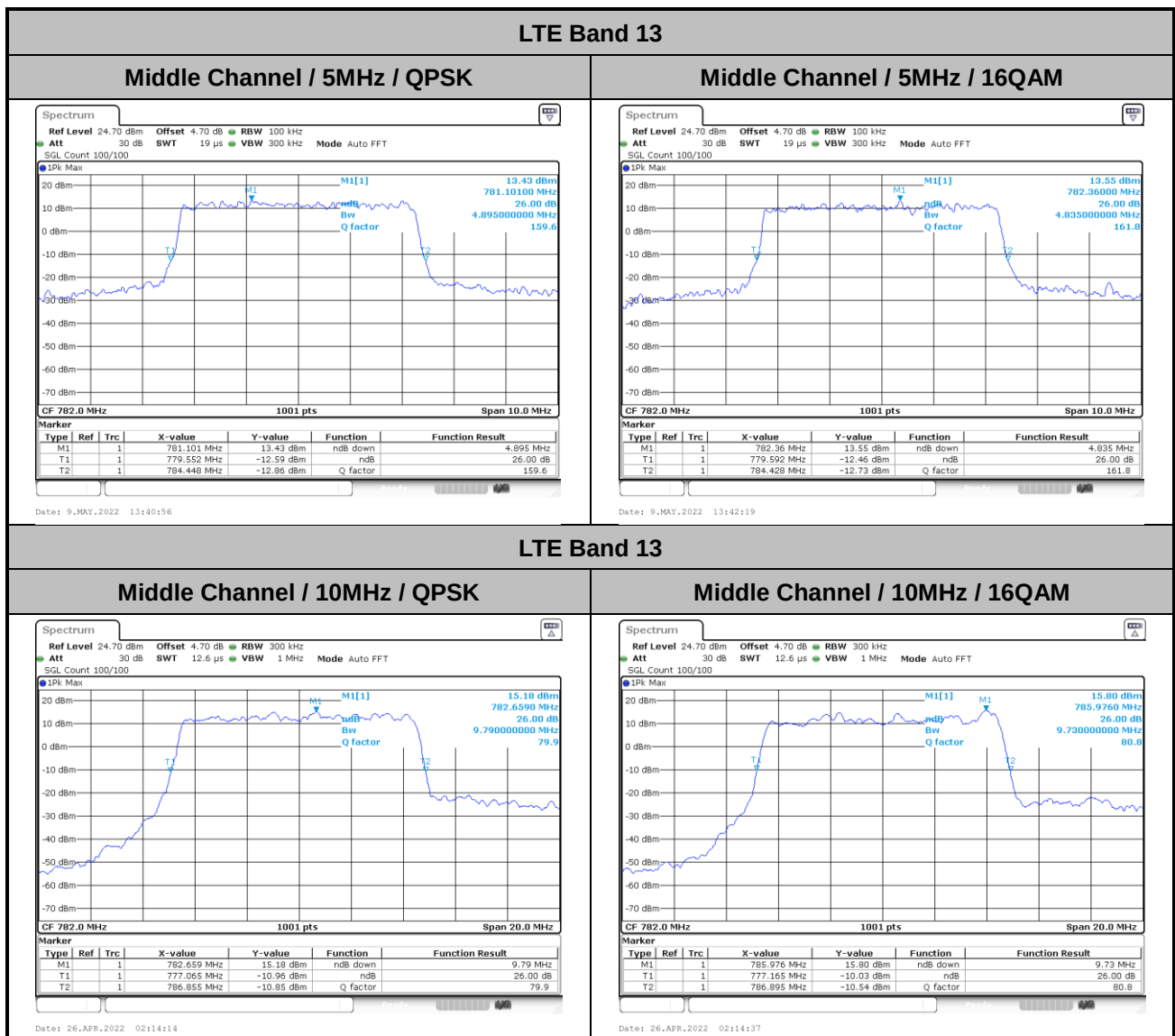
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.13	5.91	6.17	6.32	PASS





**26dB Bandwidth**

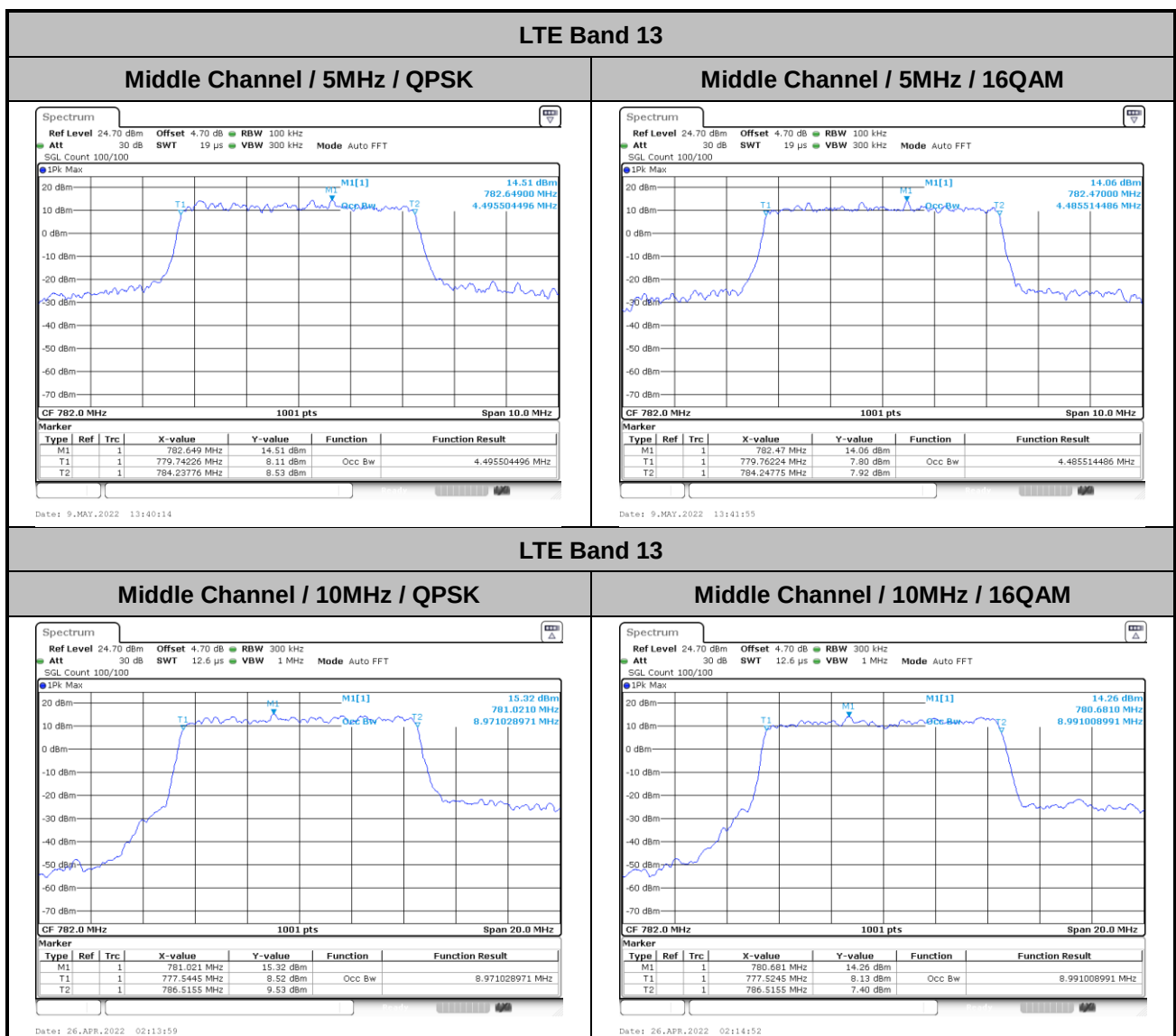
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.90	4.84
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.79	9.73

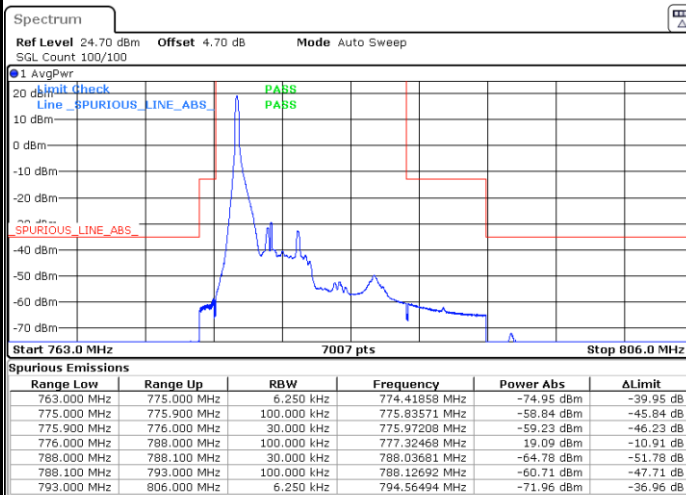
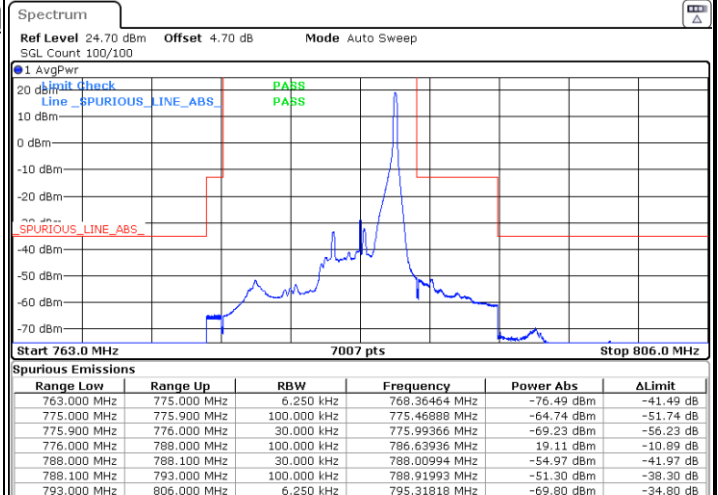
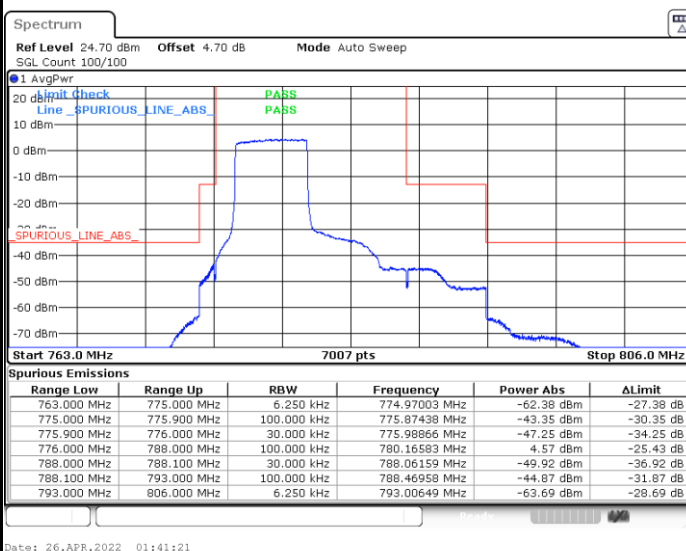
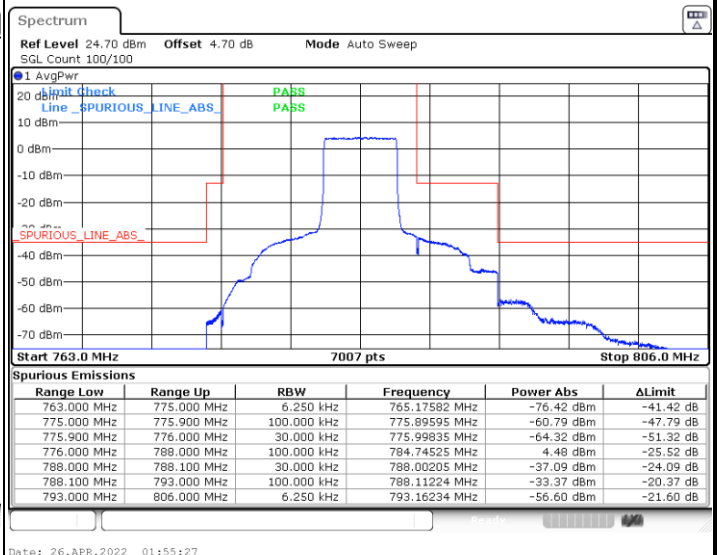




Occupied Bandwidth

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	8.97	8.99

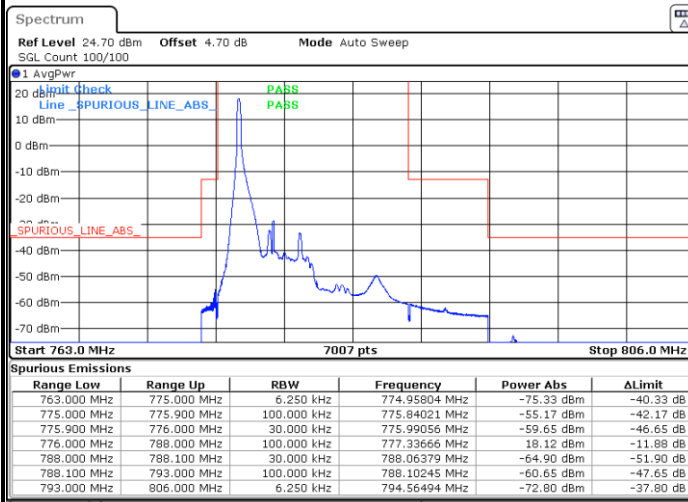


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

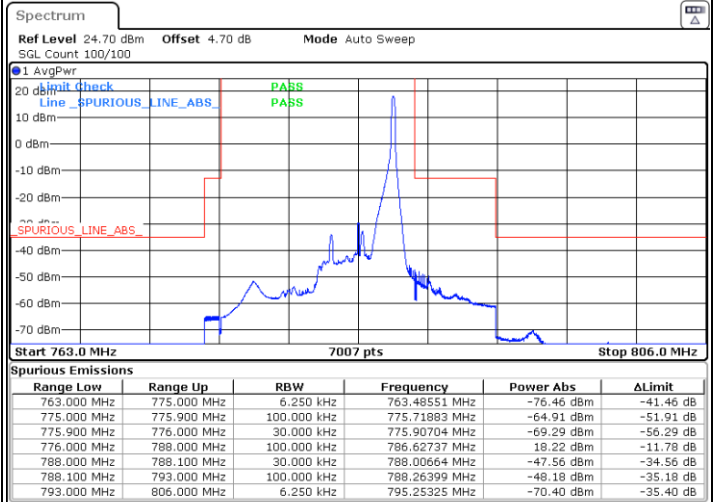


LTE Band 13 / 5MHz / 16QAM

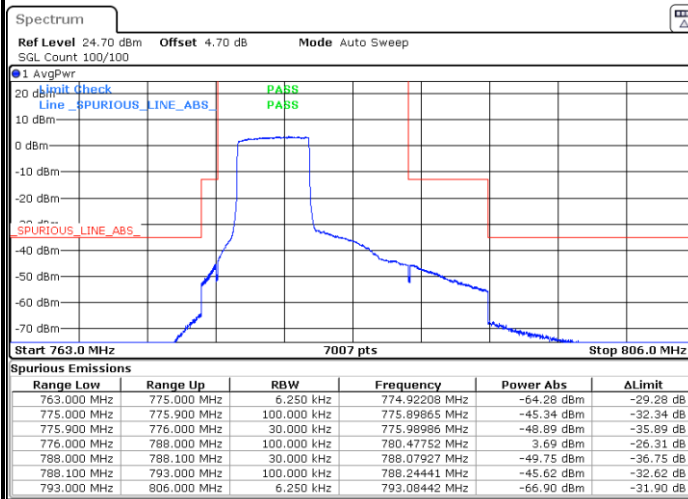
Lowest Band Edge / 1RB



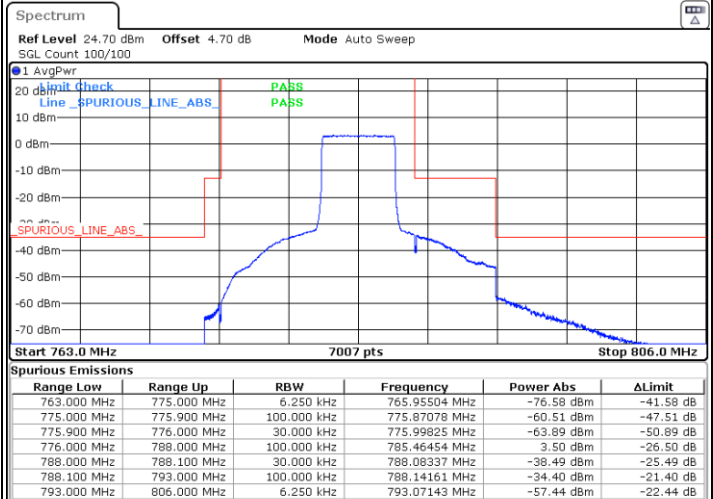
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



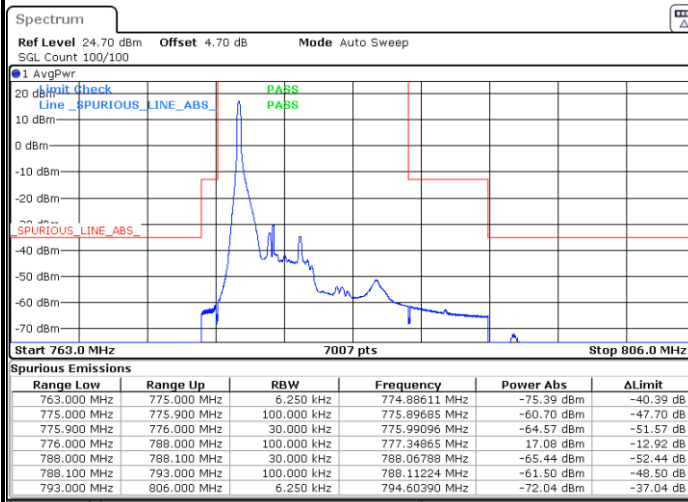
Highest Band Edge / Full RB





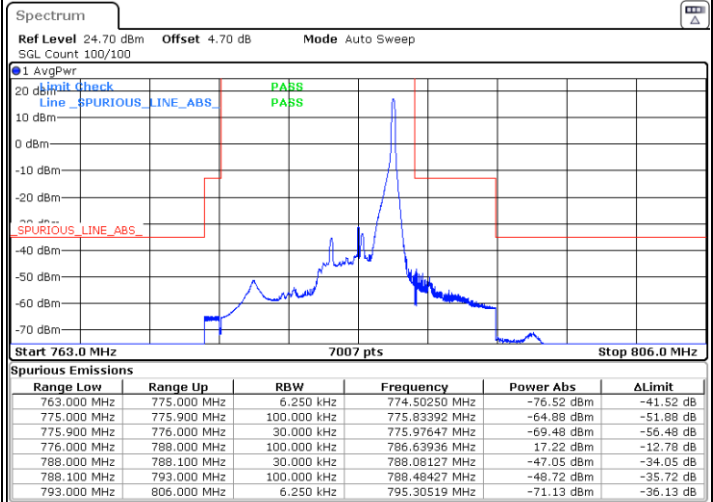
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB



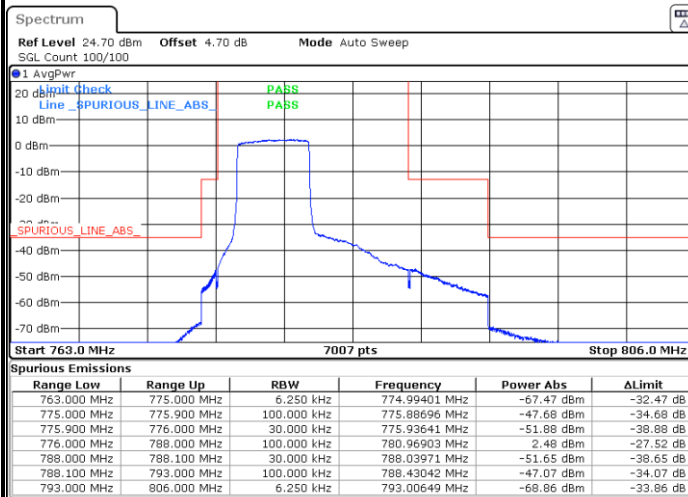
Date: 26.APR.2022 01:35:42

Highest Band Edge / 1 RB



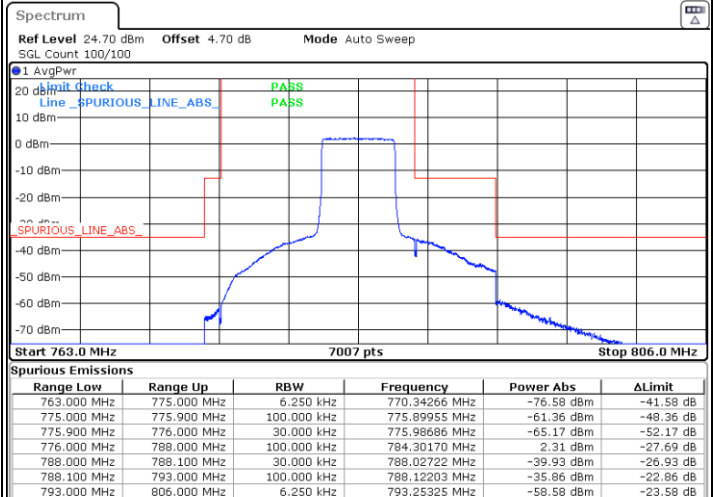
Date: 26.APR.2022 01:49:48

Lowest Band Edge / Full RB



Date: 26.APR.2022 01:37:35

Highest Band Edge / Full RB

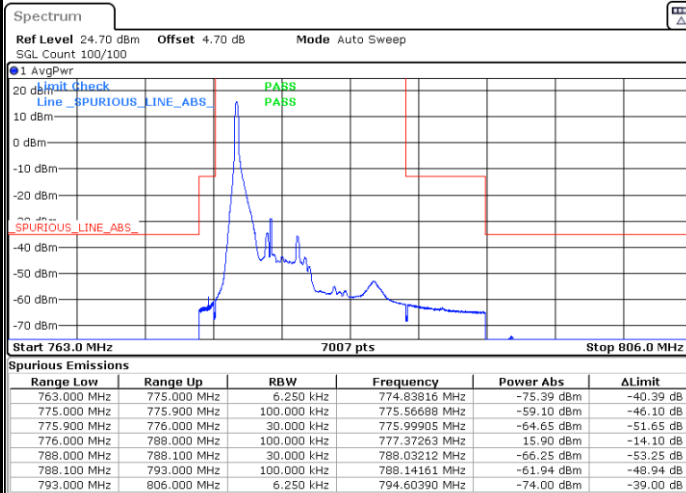


Date: 26.APR.2022 01:51:41



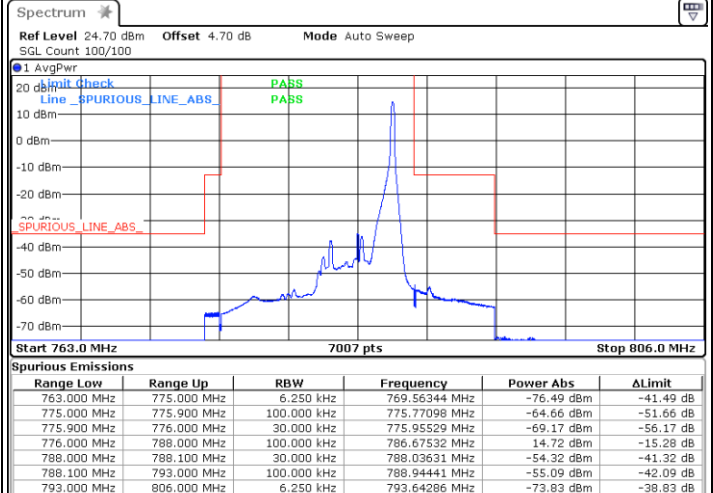
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



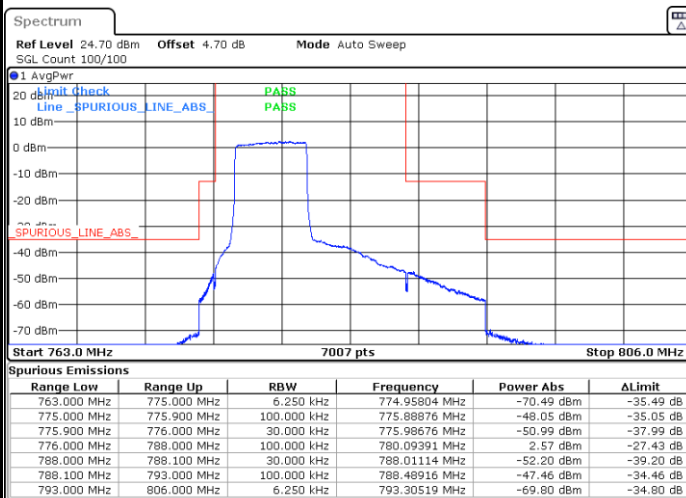
Date: 12.MAY.2022 15:52:36

Highest Band Edge / 1 RB



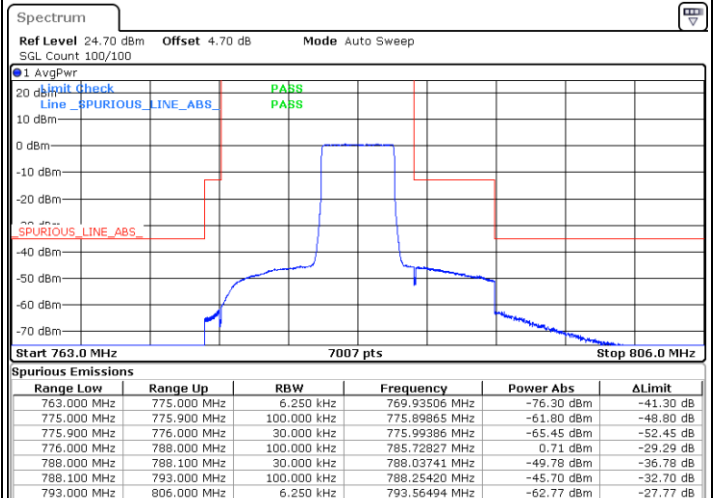
Date: 23.MAY.2022 12:07:42

Lowest Band Edge / Full RB



Date: 12.MAY.2022 15:51:11

Highest Band Edge / Full RB

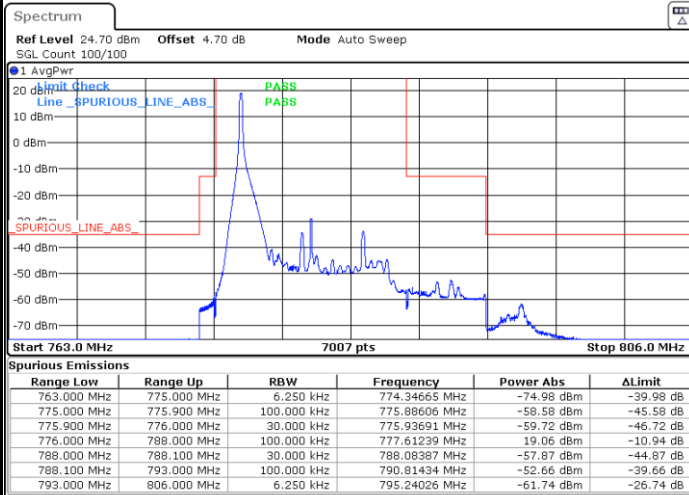


Date: 23.MAY.2022 11:51:17



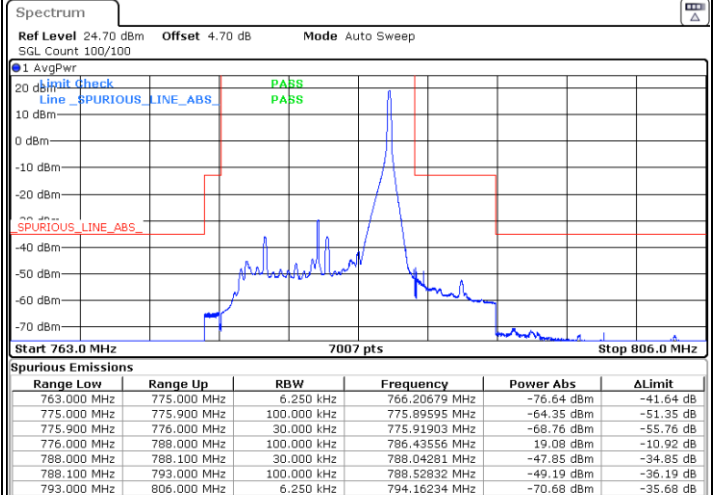
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



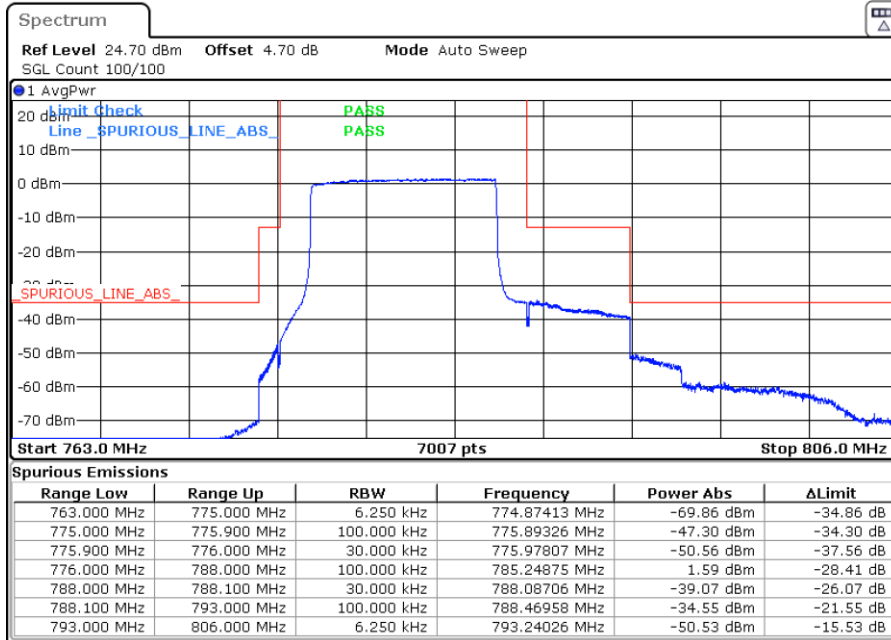
Date: 26.APR.2022 01:58:35

middle Band Edge / 1 RB



Date: 26.APR.2022 02:09:50

Middle Band Edge / Full RB

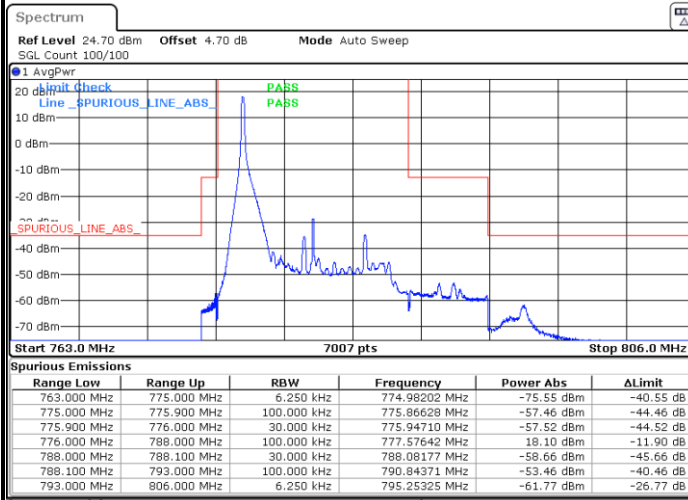


Date: 26.APR.2022 02:07:57



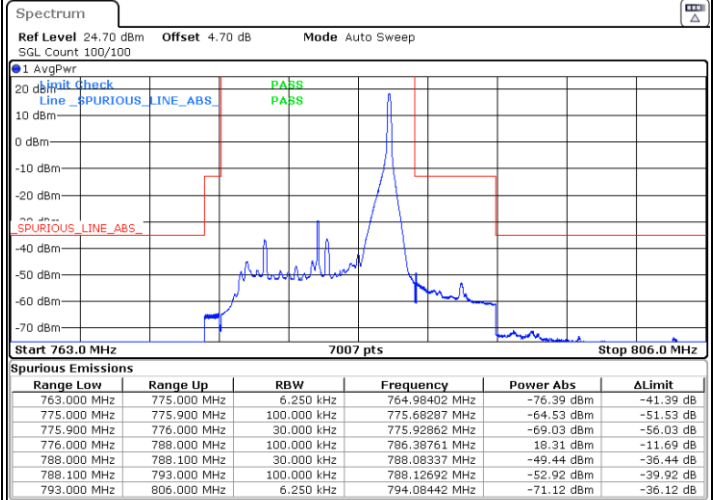
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



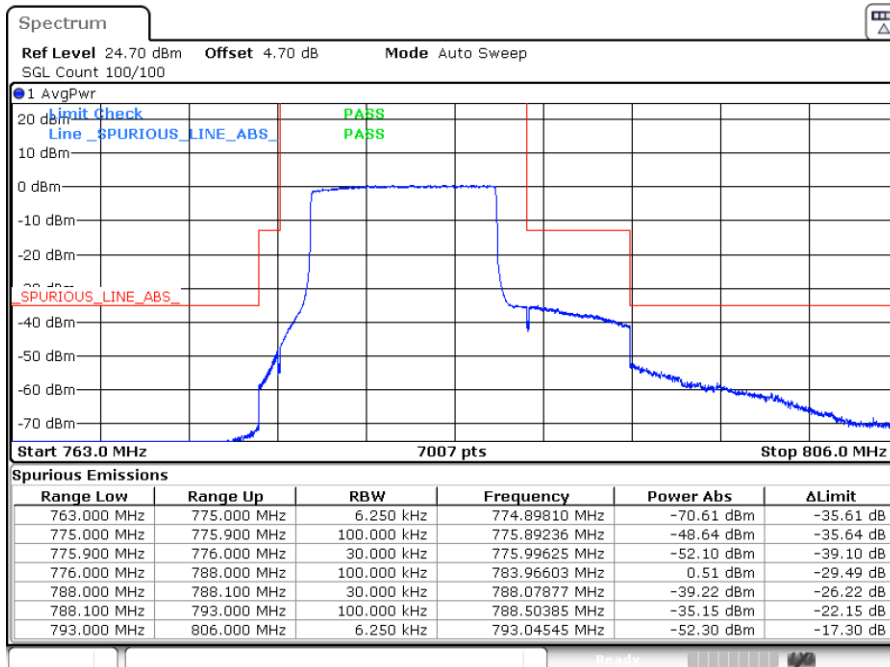
Date: 26.APR.2022 02:00:28

middle Band Edge / 1 RB



Date: 26.APR.2022 02:11:42

middle Band Edge / Full RB

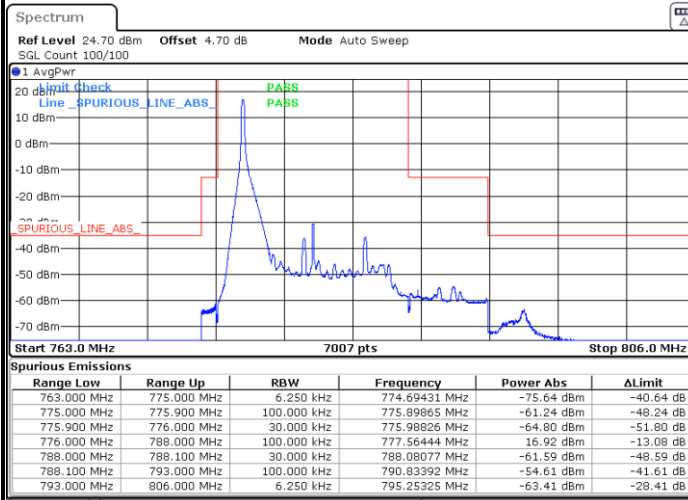


Date: 26.APR.2022 02:06:05



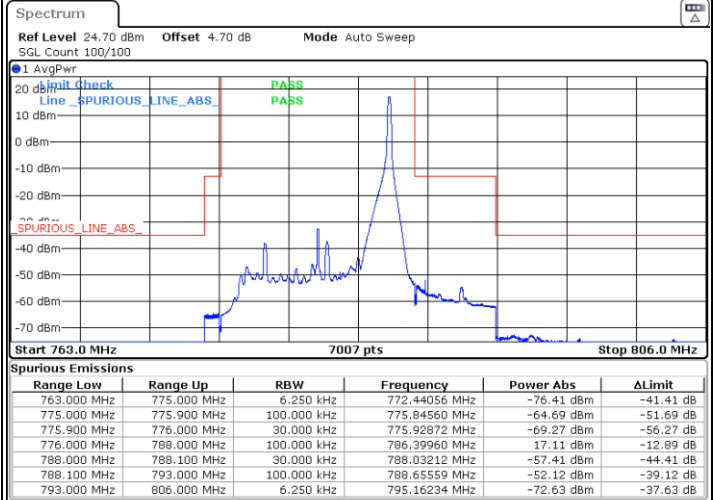
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



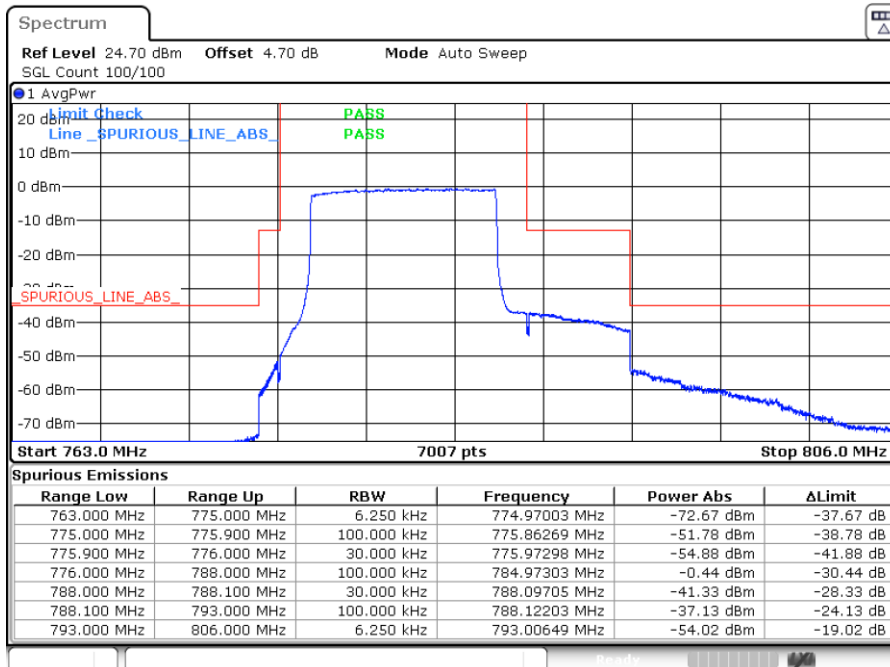
Date: 26.APR.2022 02:02:20

middle Band Edge / 1 RB



Date: 26.APR.2022 02:13:35

middle Band Edge / Full RB

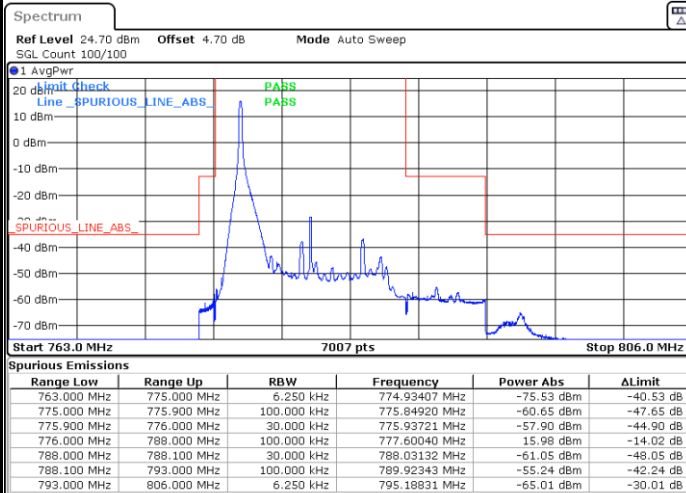


Date: 26.APR.2022 02:04:13



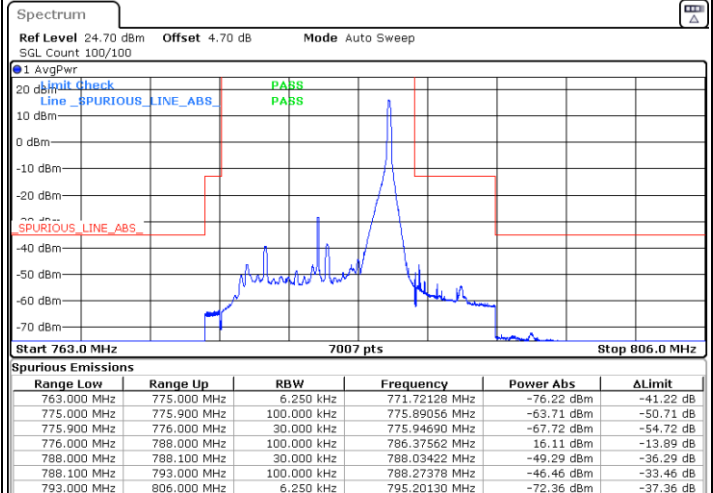
LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB



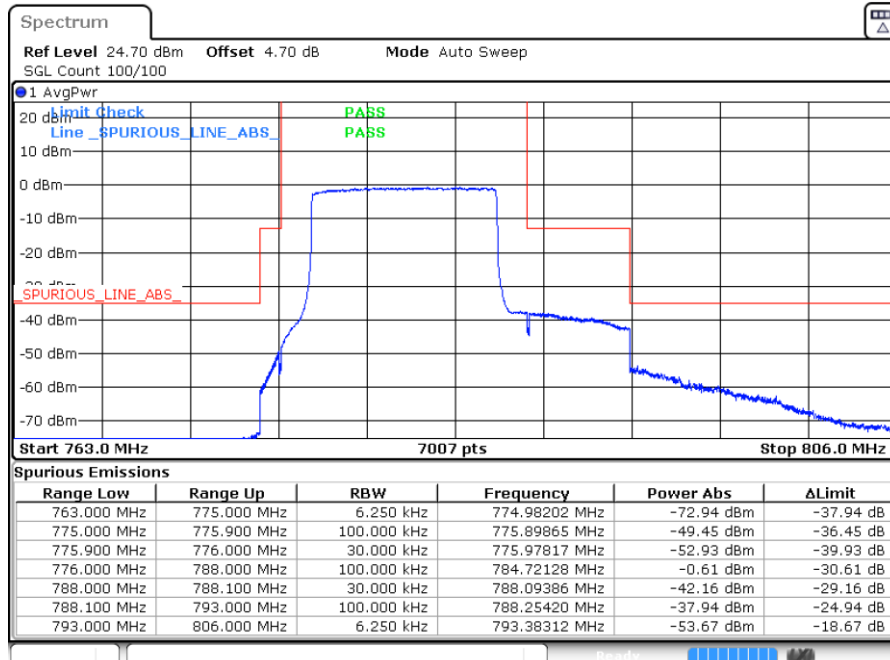
Date: 12 MAY 2022 16:01:01

middle Band Edge / 1 RB



Date: 12 MAY 2022 16:02:12

Middle Band Edge / Full RB



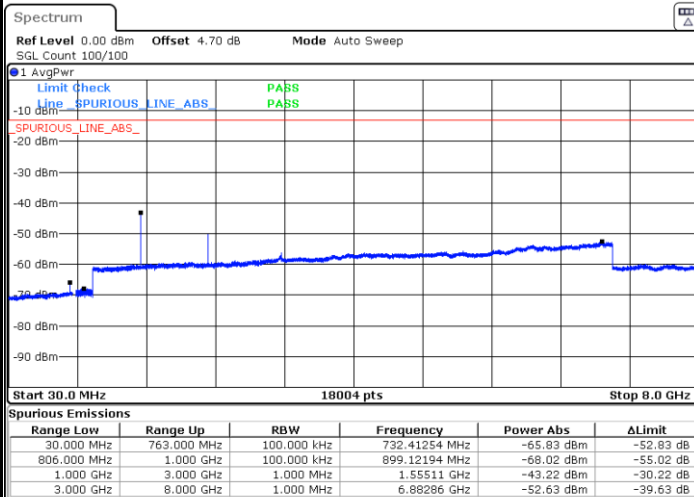
Date: 12 MAY 2022 15:59:38



Conducted Spurious Emission

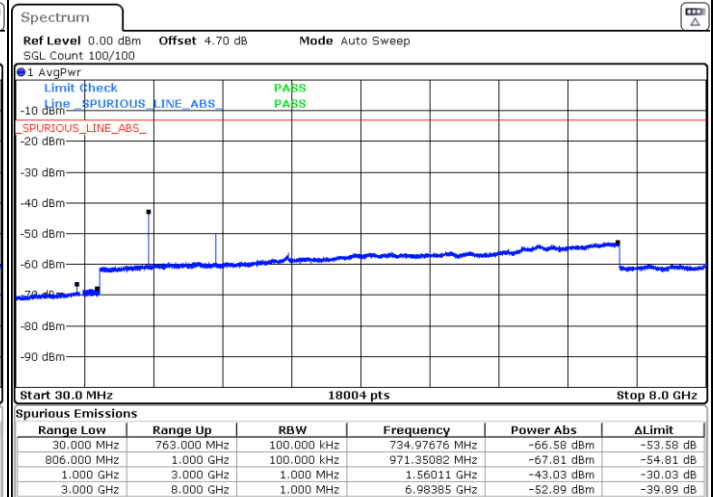
LTE Band 13 / 5MHz

Lowest Channel / QPSK



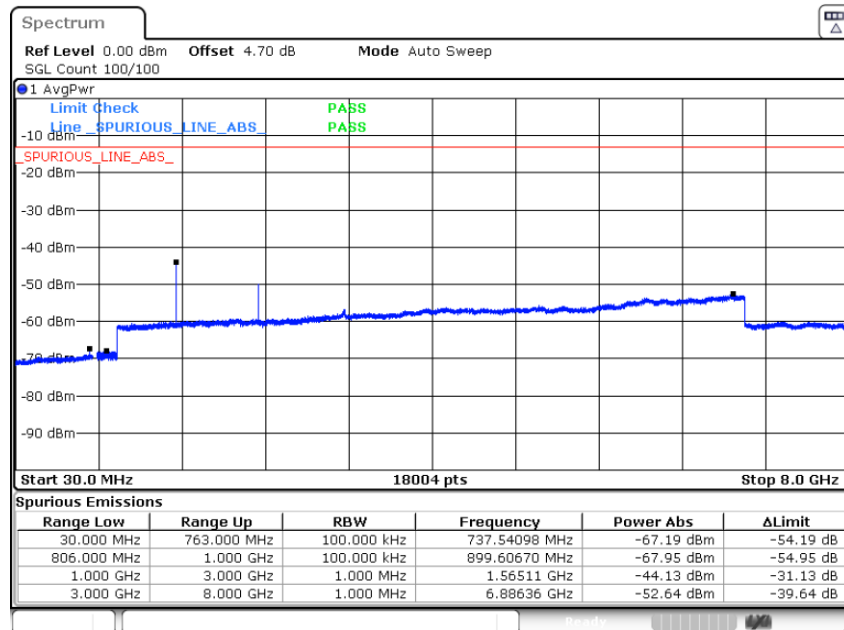
Date: 26.APR.2022 01:30:13

Middle Channel / QPSK



Date: 26.APR.2022 01:42:45

Highest Channel / QPSK

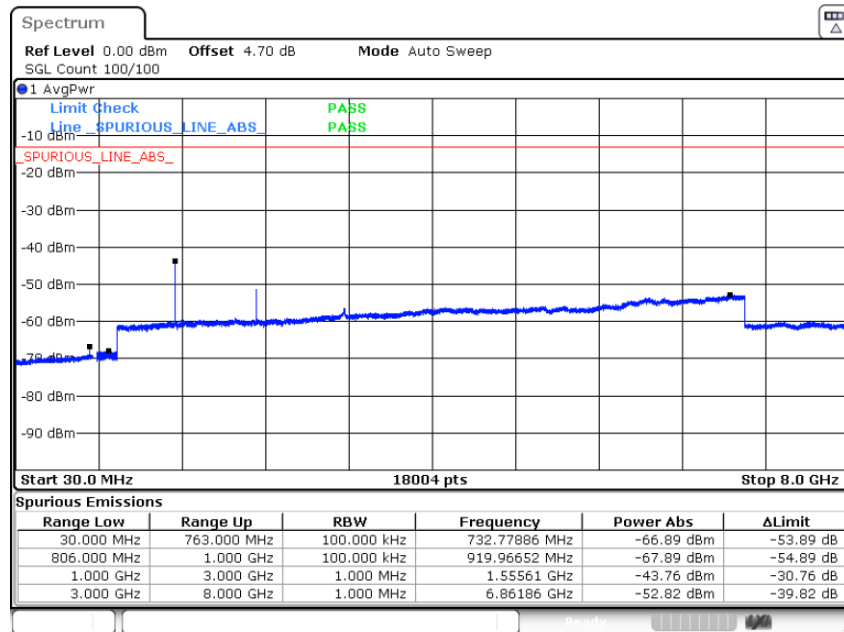


Date: 26.APR.2022 01:44:09



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 26.APR.2022 01:56:51

**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	0.0234	PASS
40	Normal Voltage	0.0045	
30	Normal Voltage	0.0261	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0201	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0050	
20	Maximum Voltage	0.0281	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0028	

Note:

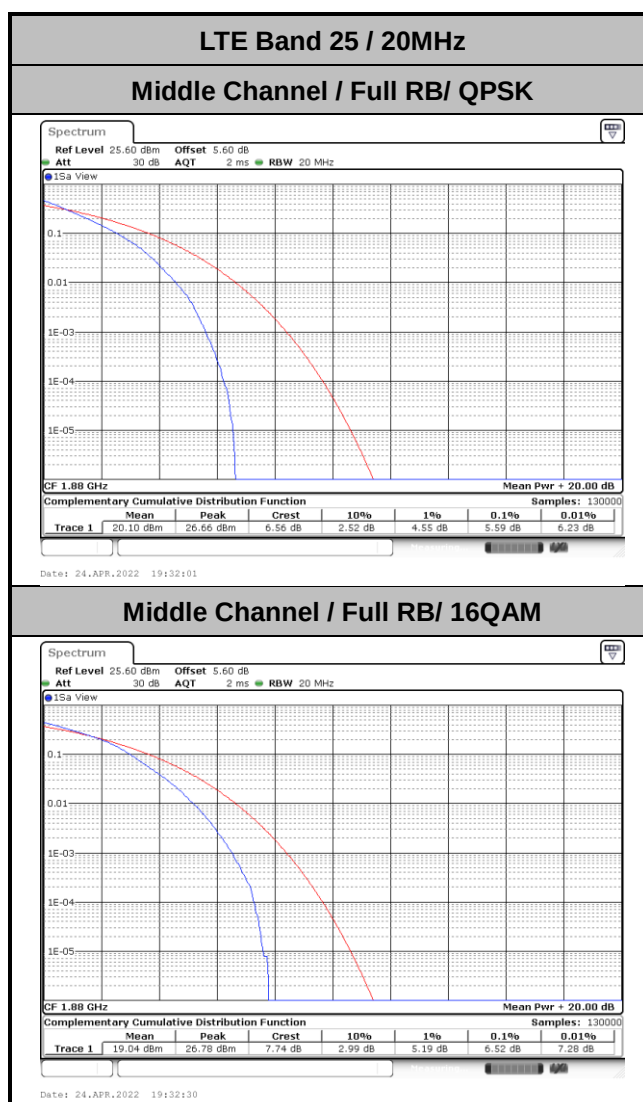
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

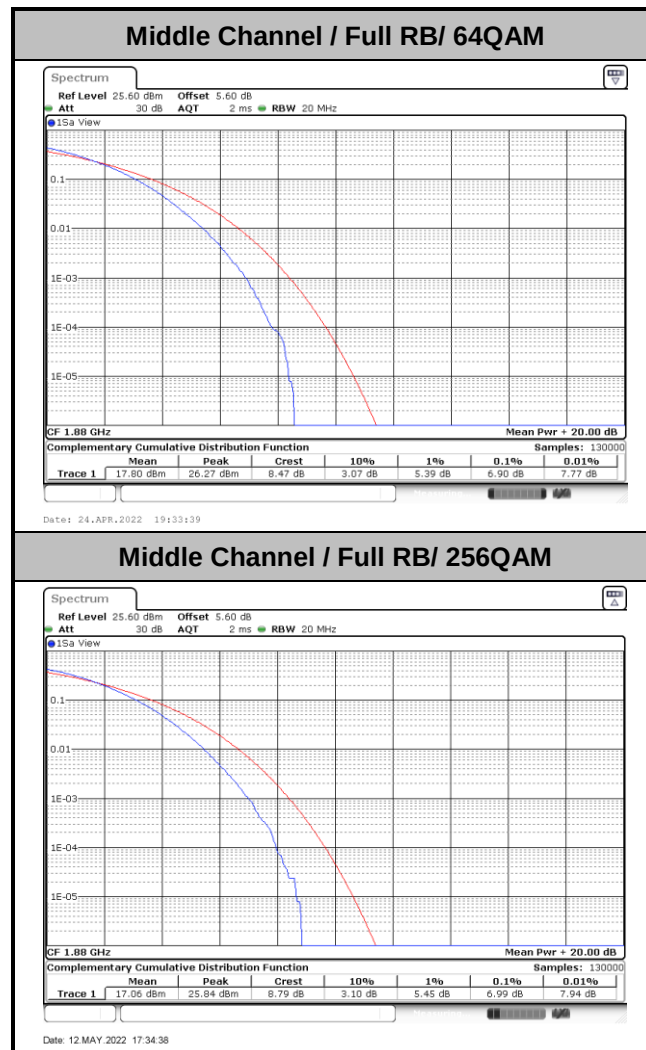


LTE Band 25

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	5.59	6.52	6.90	6.99	PASS





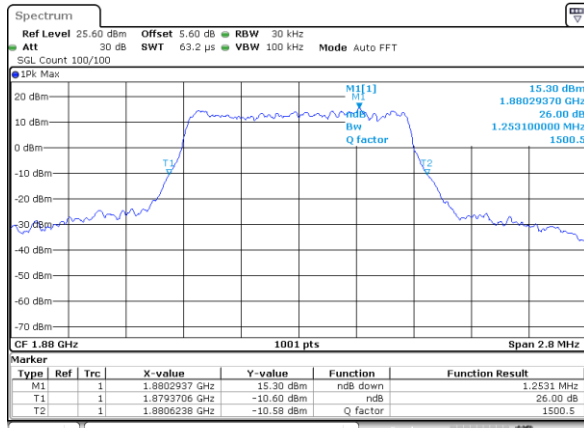
**26dB Bandwidth**

Mode	LTE Band 25 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.25	1.27
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.98	2.95
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.93	4.85
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.77	9.69
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.27	14.39
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.22	20.14

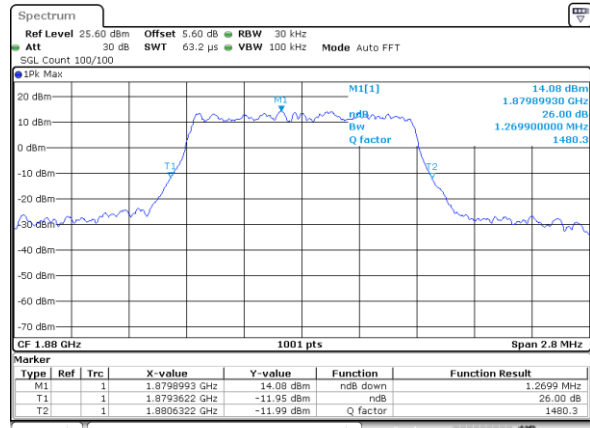


LTE Band 25

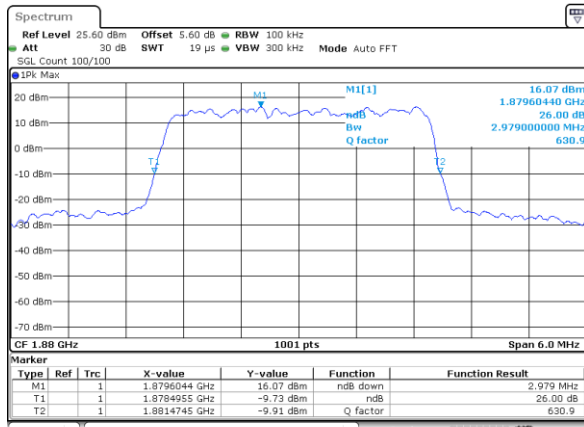
Middle Channel / 1.4MHz / QPSK



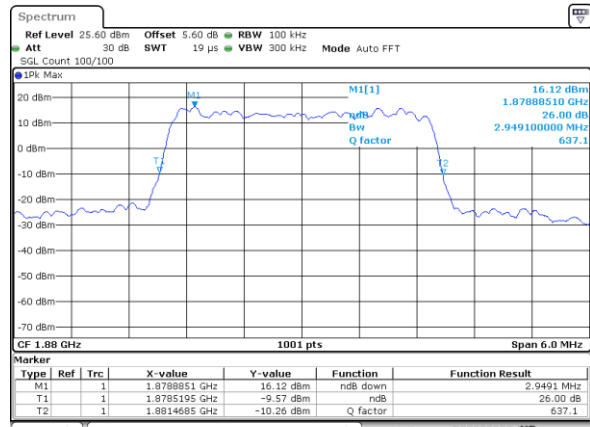
Middle Channel / 1.4MHz / 16QAM



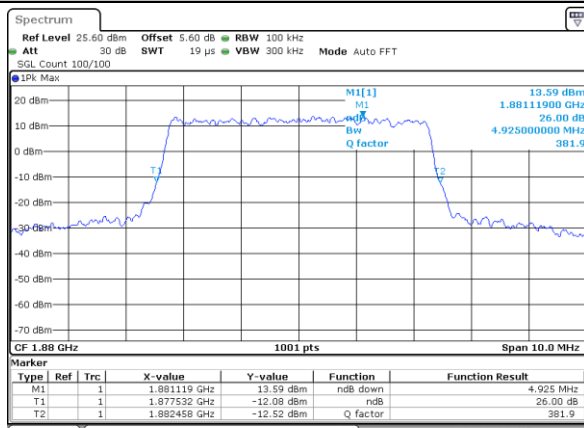
Middle Channel / 3MHz / QPSK



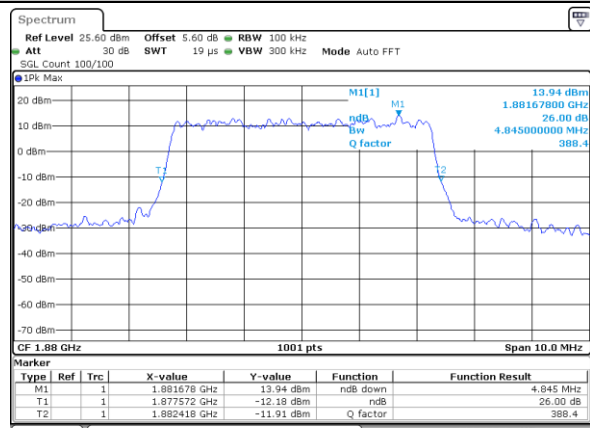
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



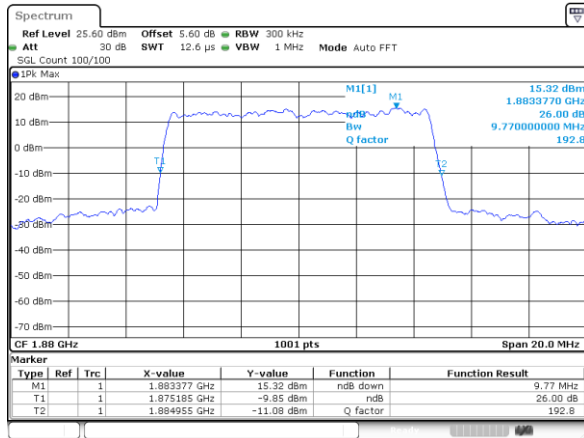
Middle Channel / 5MHz / 16QAM





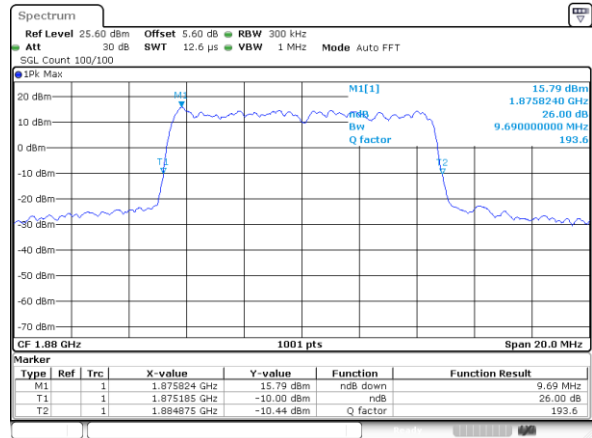
LTE Band 25

Middle Channel / 10MHz / QPSK



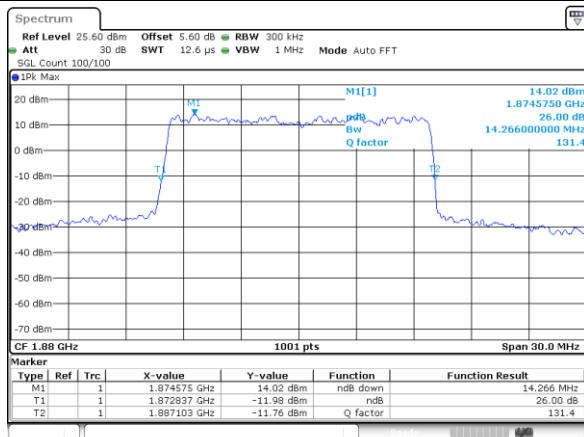
Date: 9,MAY,2022 13:52:11

Middle Channel / 10MHz / 16QAM



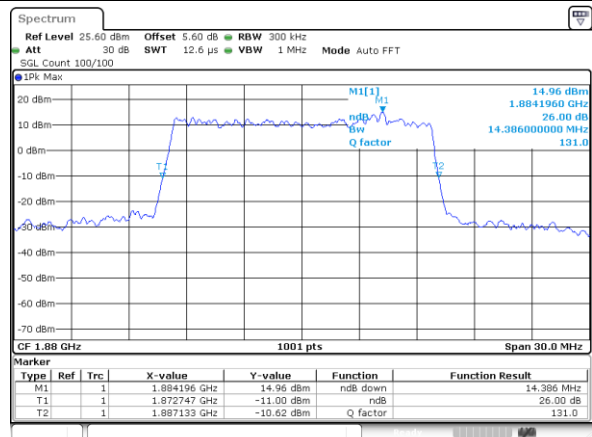
Date: 9,MAY,2022 13:51:19

Middle Channel / 15MHz / QPSK



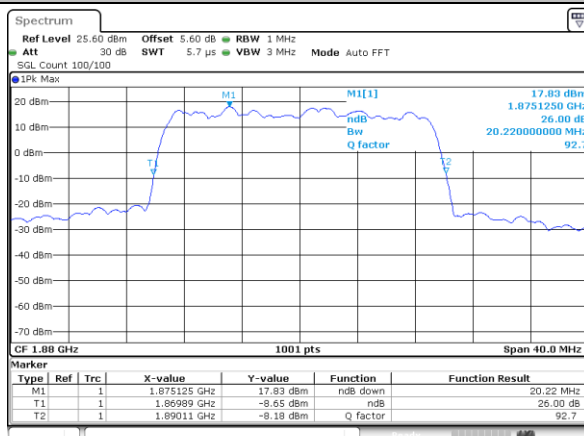
Date: 9,MAY,2022 13:48:06

Middle Channel / 15MHz / 16QAM



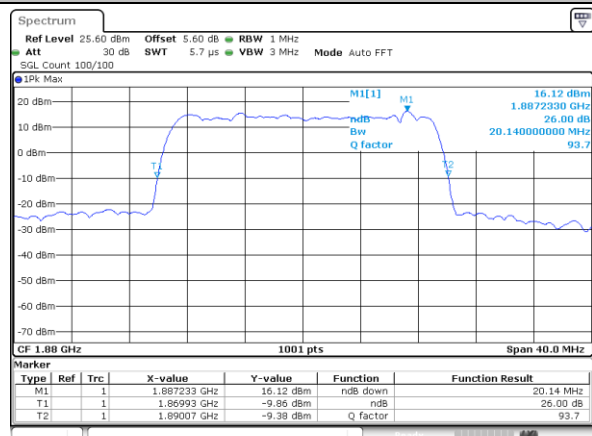
Date: 9,MAY,2022 13:49:50

Middle Channel / 20MHz / QPSK



Date: 24,APR,2022 19:31:30

Middle Channel / 20MHz / 16QAM



Date: 24,APR,2022 19:33:15

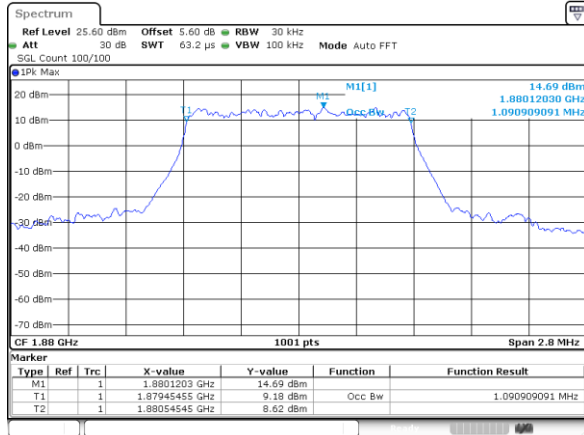
**Occupied Bandwidth**

Mode	LTE Band 25 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.09
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.72	2.72
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	9.07
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.49	13.43
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.30	18.42

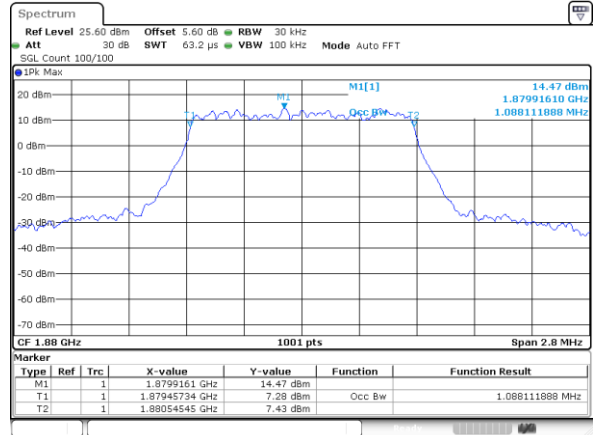


LTE Band 25

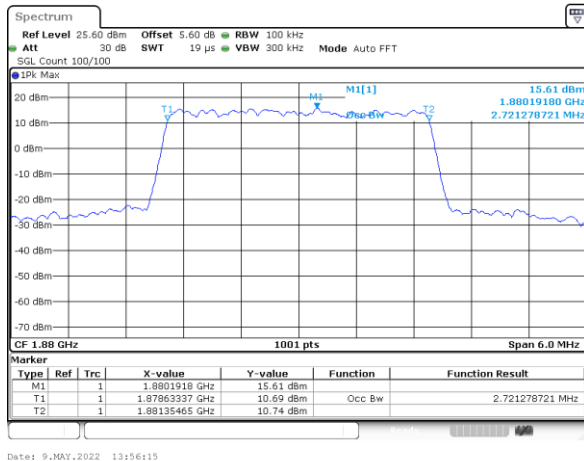
Middle Channel / 1.4MHz / QPSK



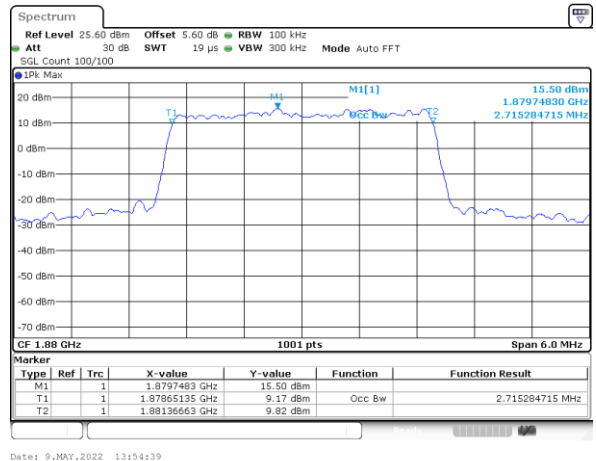
Middle Channel / 1.4MHz / 16QAM



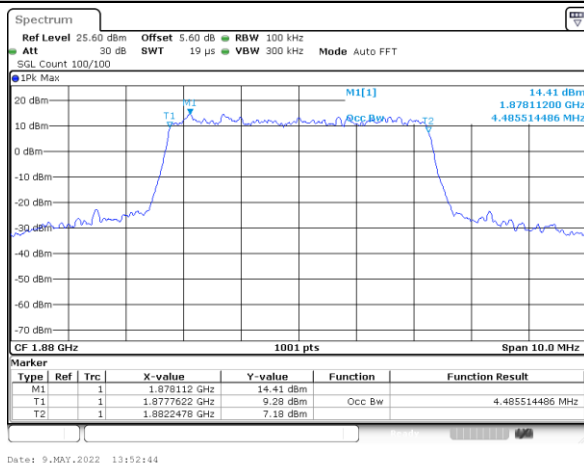
Middle Channel / 3MHz / QPSK



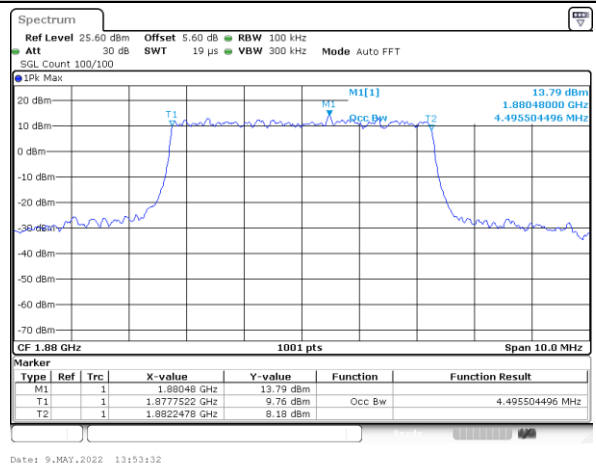
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



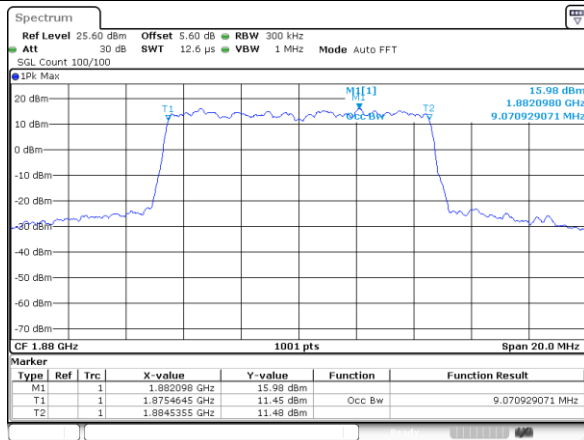
Middle Channel / 5MHz / 16QAM





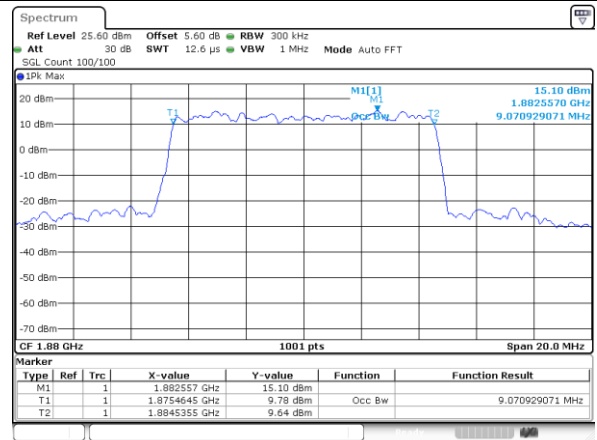
LTE Band 25

Middle Channel / 10MHz / QPSK



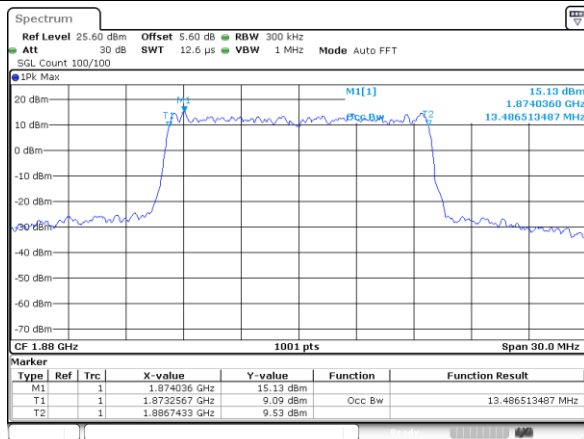
Date: 9,MAY,2022 13:51:47

Middle Channel / 10MHz / 16QAM



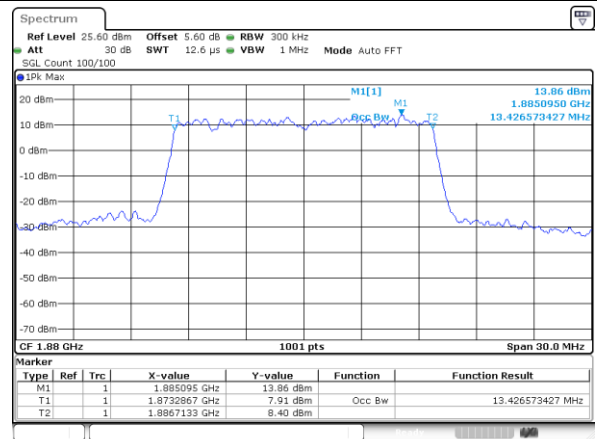
Date: 9,MAY,2022 13:50:48

Middle Channel / 15MHz / QPSK



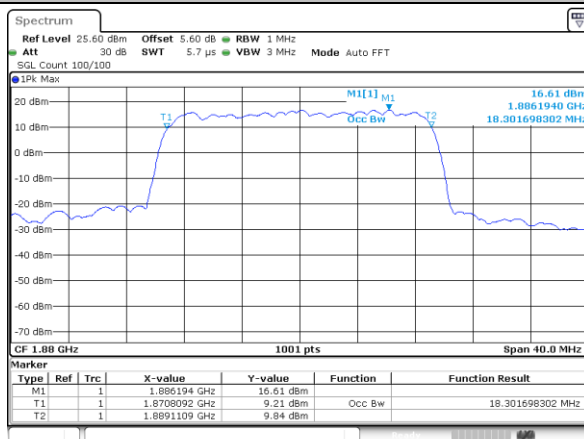
Date: 9,MAY,2022 13:47:37

Middle Channel / 15MHz / 16QAM



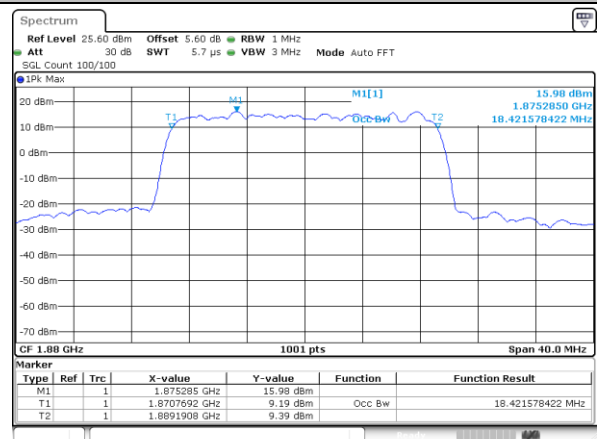
Date: 9,MAY,2022 13:49:16

Middle Channel / 20MHz / QPSK

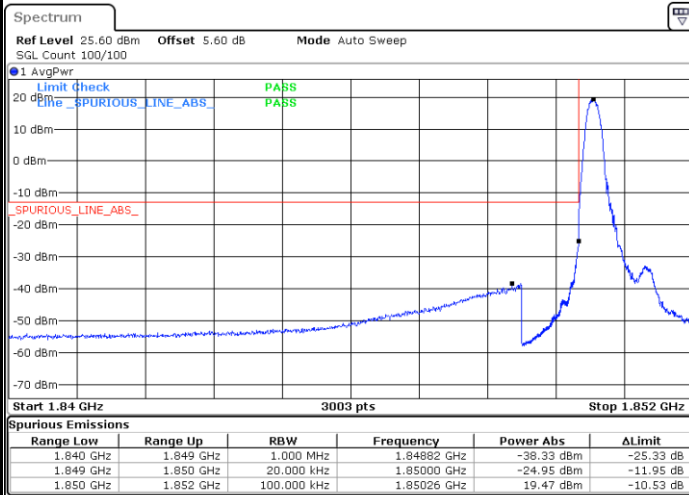
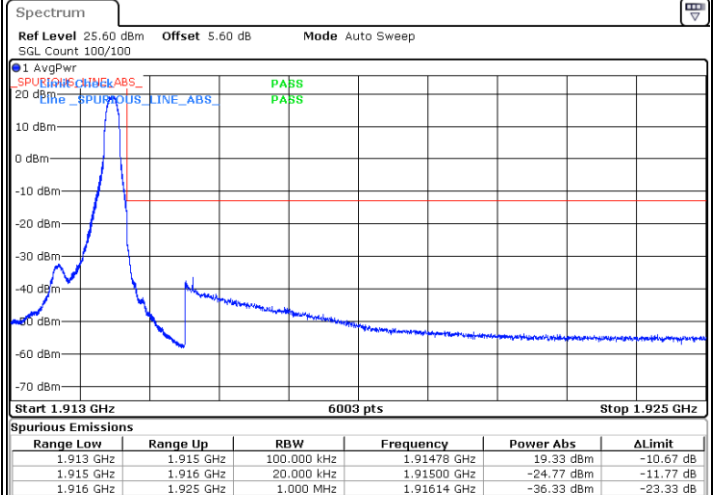
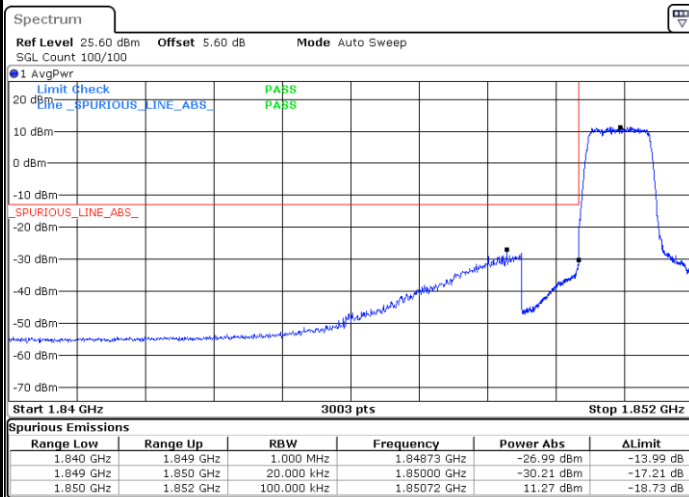
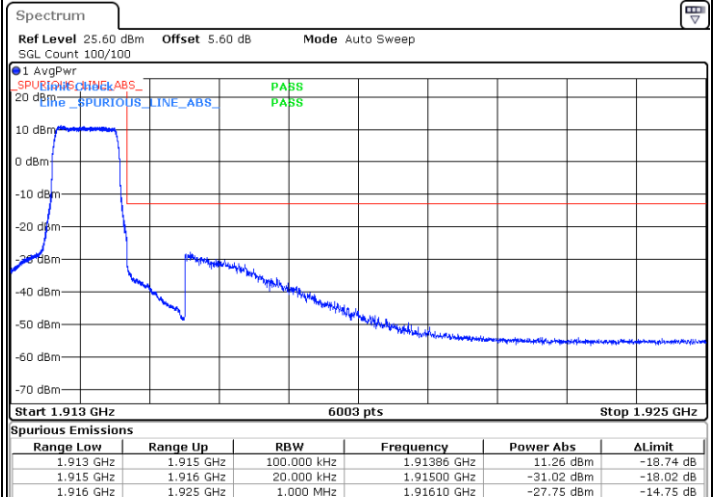


Date: 24,APR,2022 19:31:08

Middle Channel / 20MHz / 16QAM



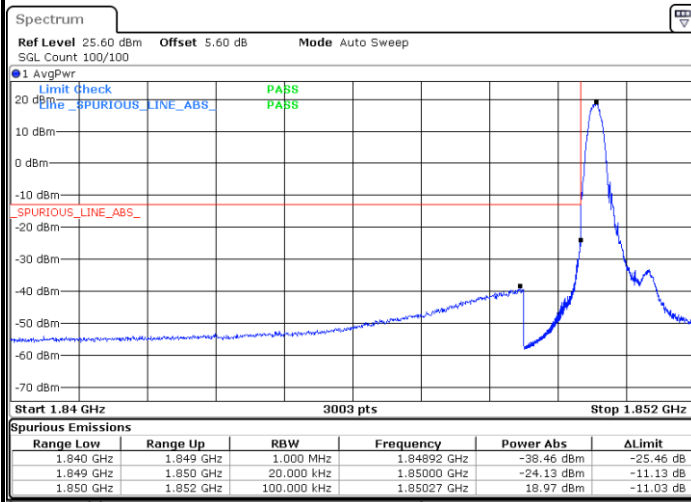
Date: 24,APR,2022 19:32:53

**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**

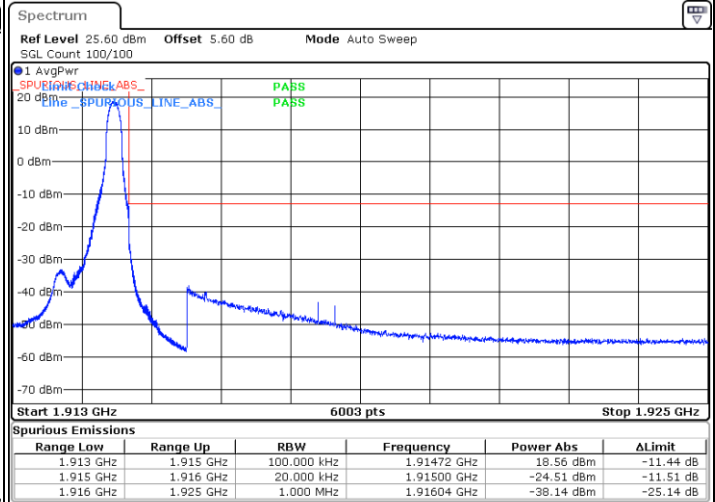


LTE Band 25 / 1.4MHz / 16QAM

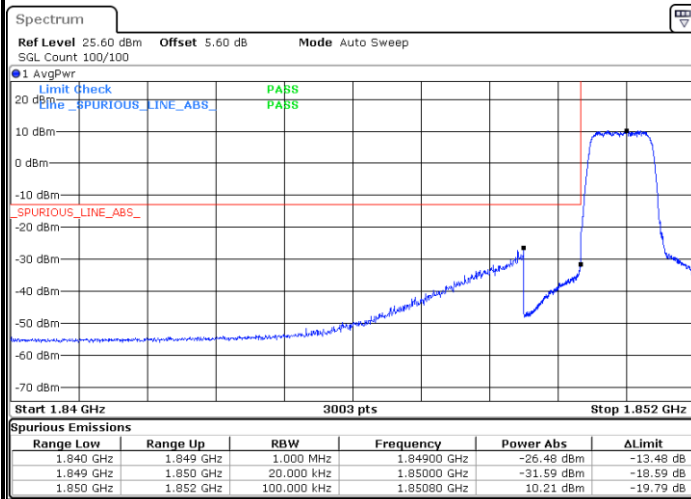
Lowest Band Edge / 1 RB



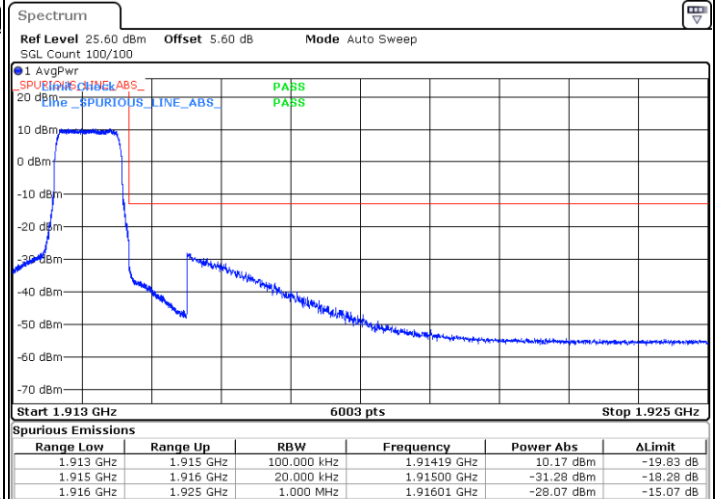
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



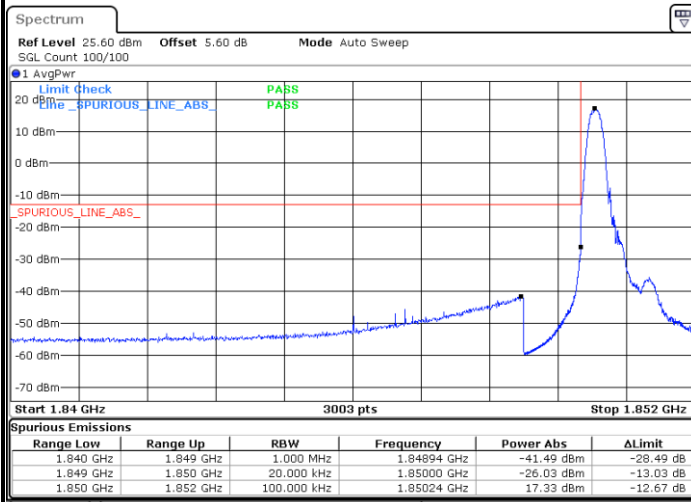
Highest Band Edge / Full RB



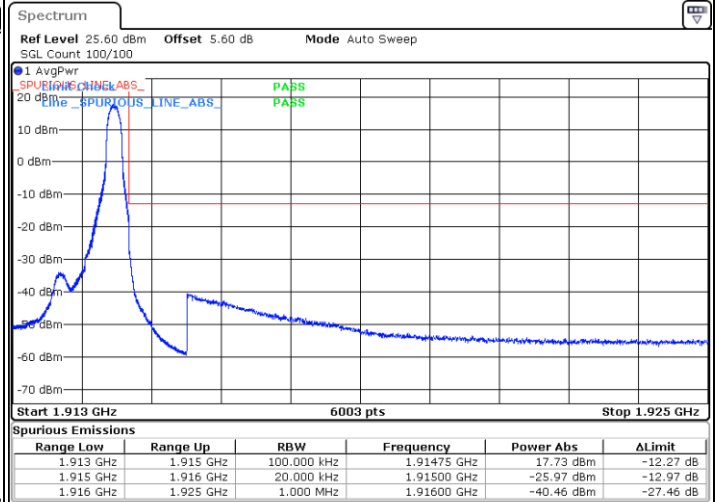


LTE Band 25 / 1.4MHz / 64QAM

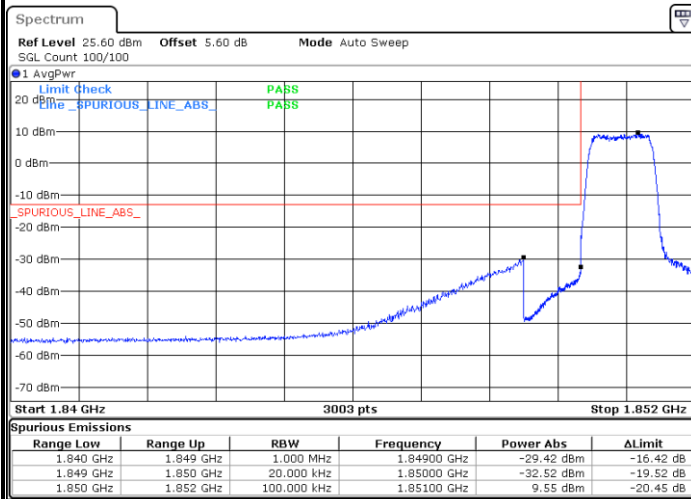
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

