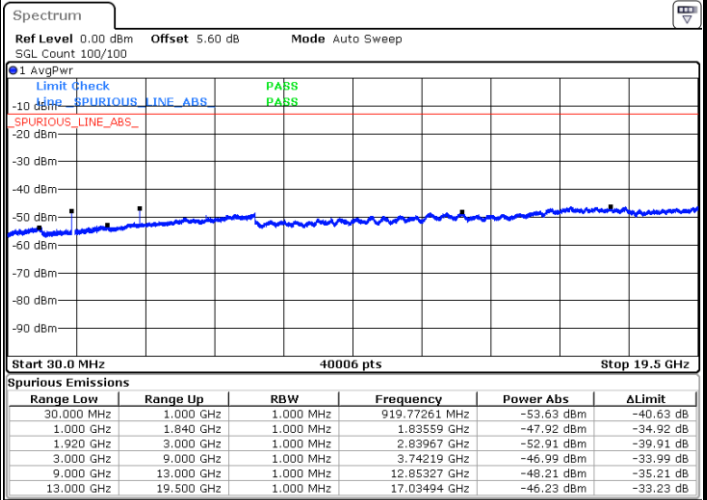
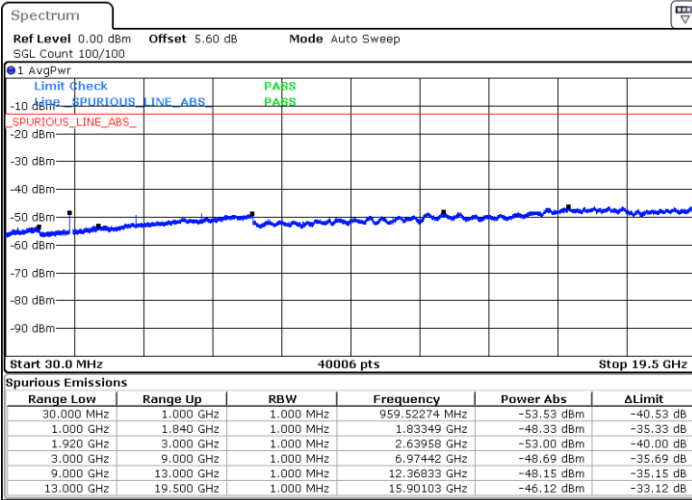




LTE Band 2 / 20MHz

Lowest Channel / QPSK

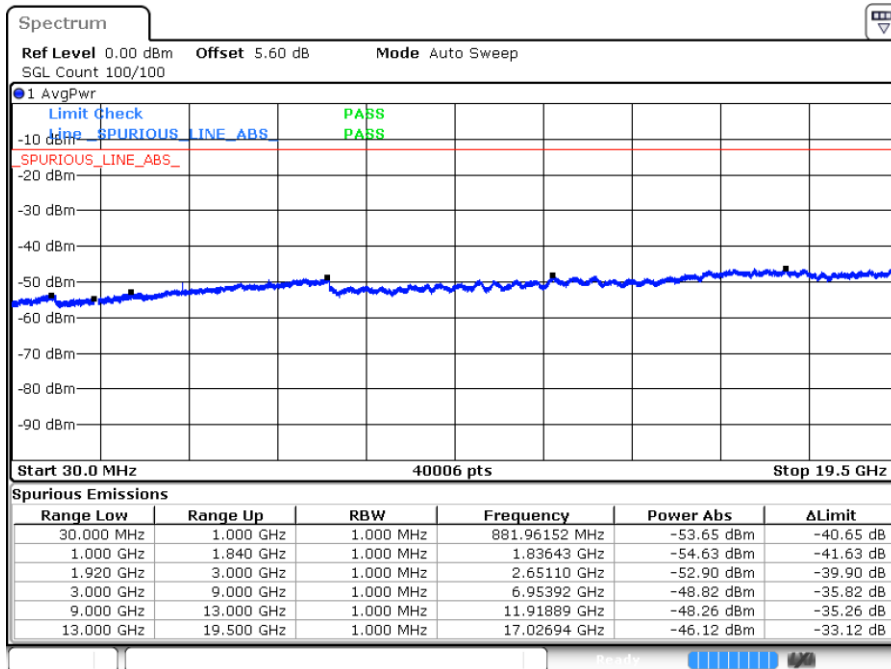
Middle Channel / QPSK



Date: 25.MAY.2021 15:54:36

Date: 25.MAY.2021 15:56:00

Highest Channel / QPSK



Date: 25.MAY.2021 15:57:23



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	0.0006	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0001	

Note:

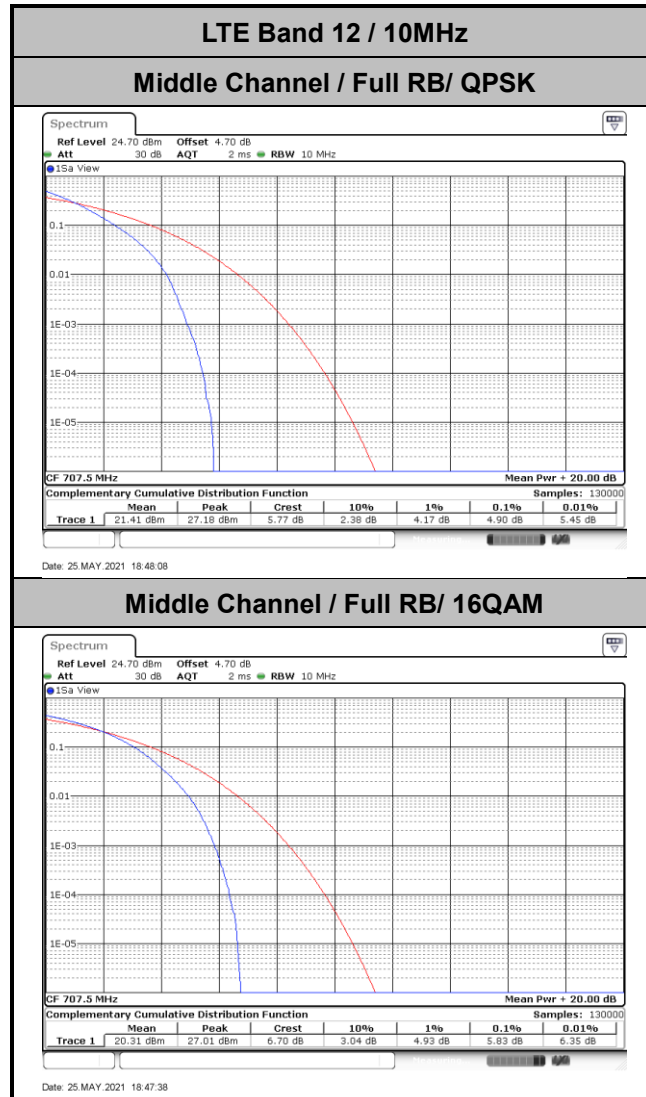
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

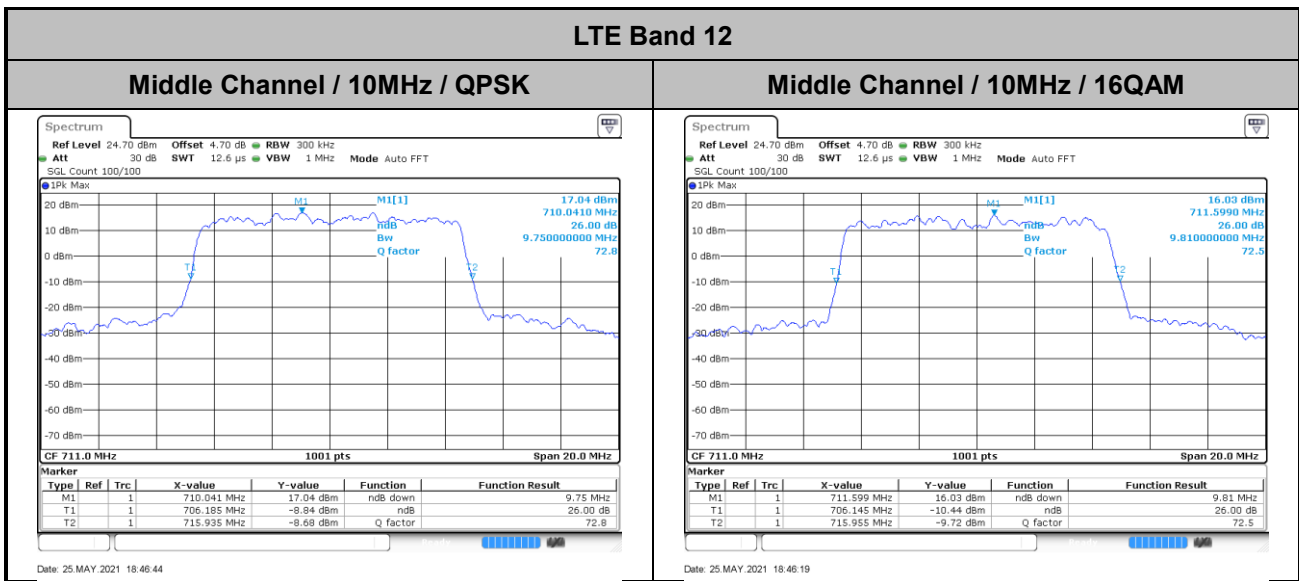
Mode	LTE Band 12 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.90	5.83	PASS





26dB Bandwidth

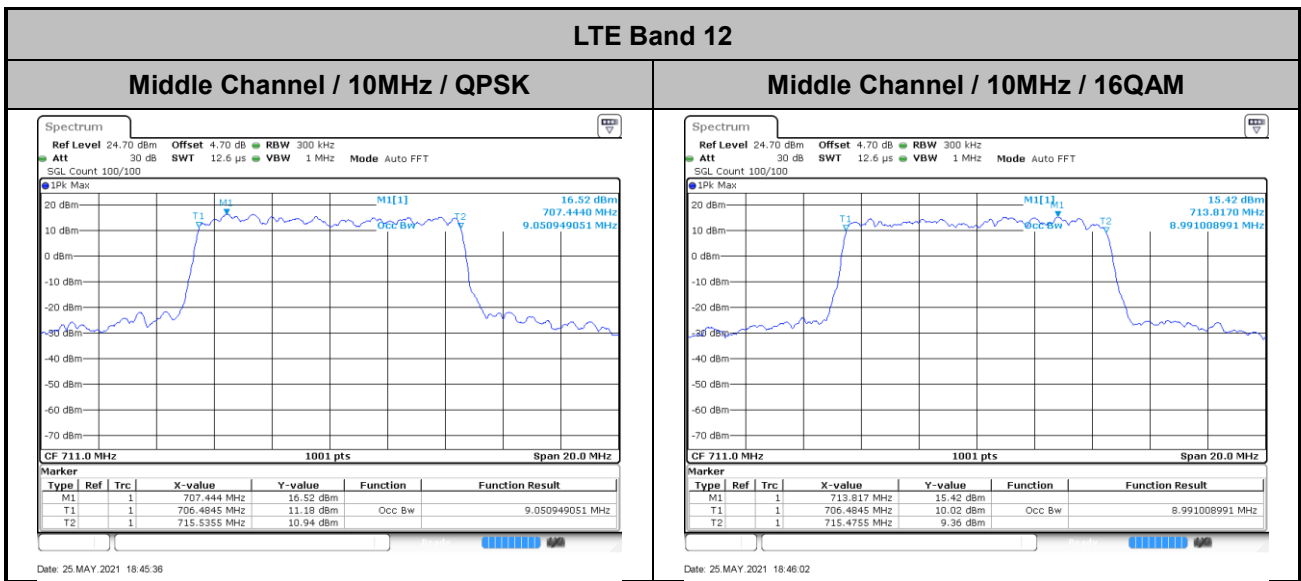
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.75	9.81





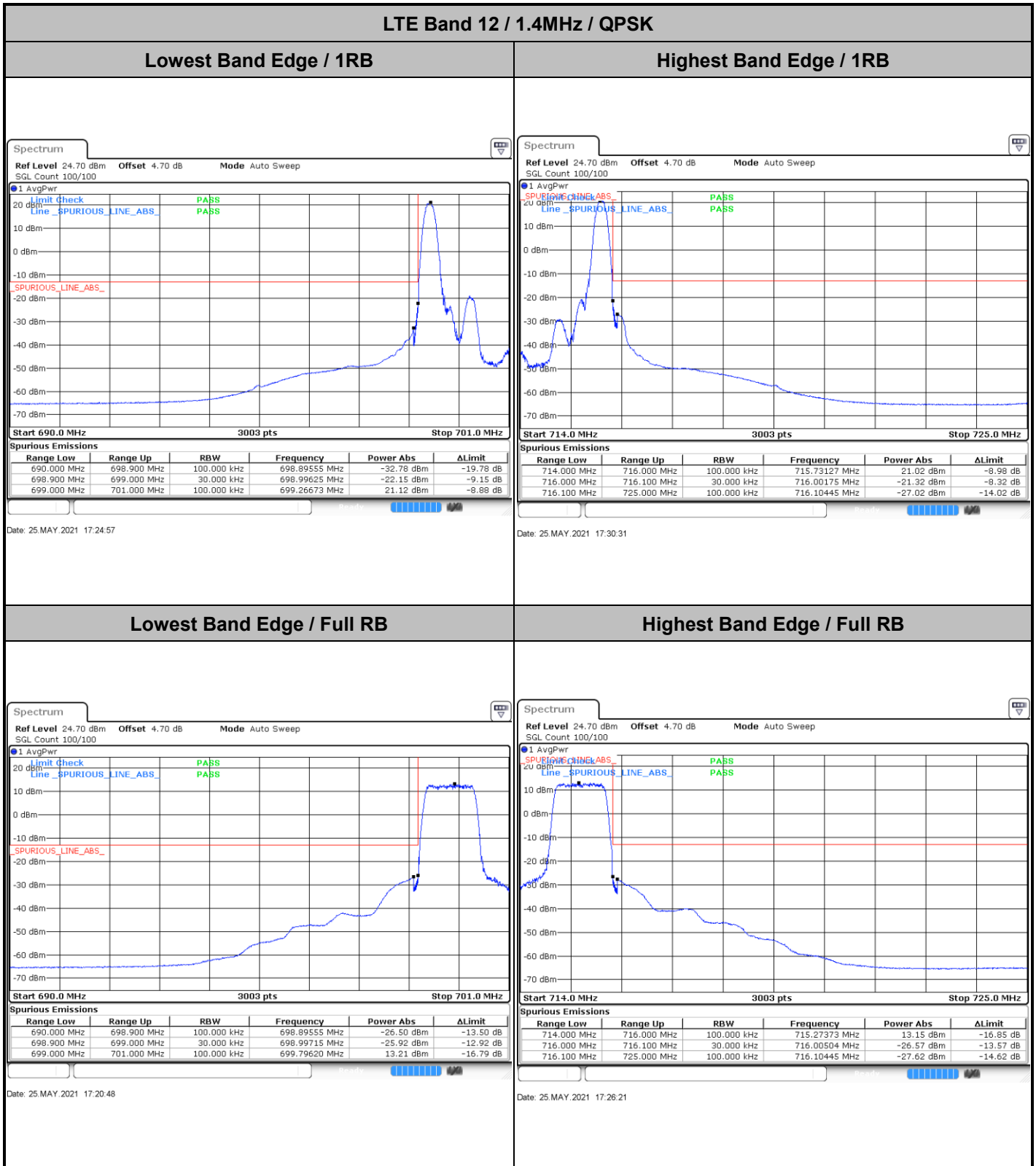
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	8.99





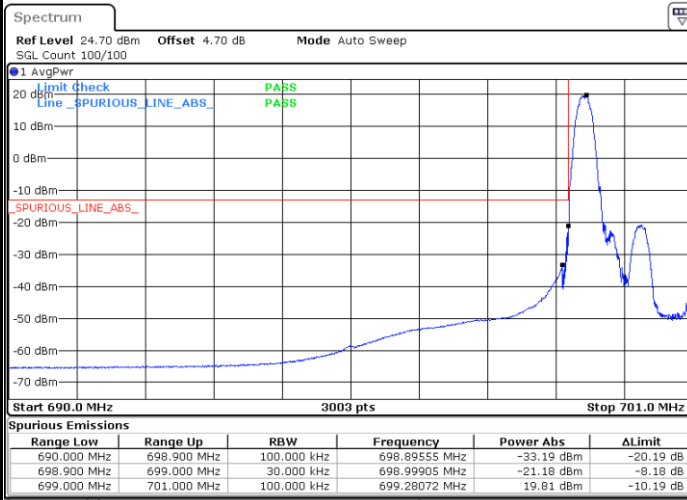
Conducted Band Edge





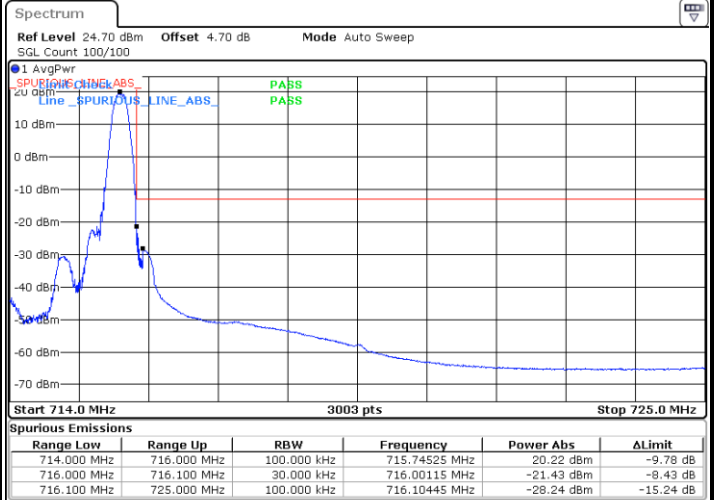
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



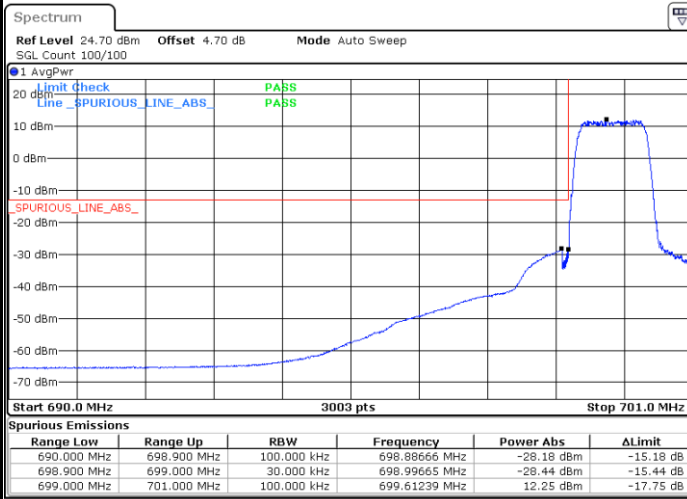
Date: 25 MAY 2021 17:23:34

Highest Band Edge / 1 RB



Date: 25 MAY 2021 17:29:08

Lowest Band Edge / Full RB



Date: 25 MAY 2021 17:22:11

Highest Band Edge / Full RB

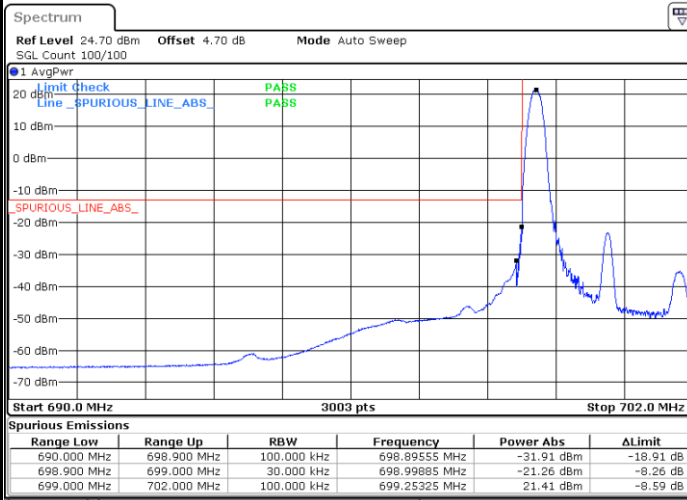


Date: 25 MAY 2021 17:27:44



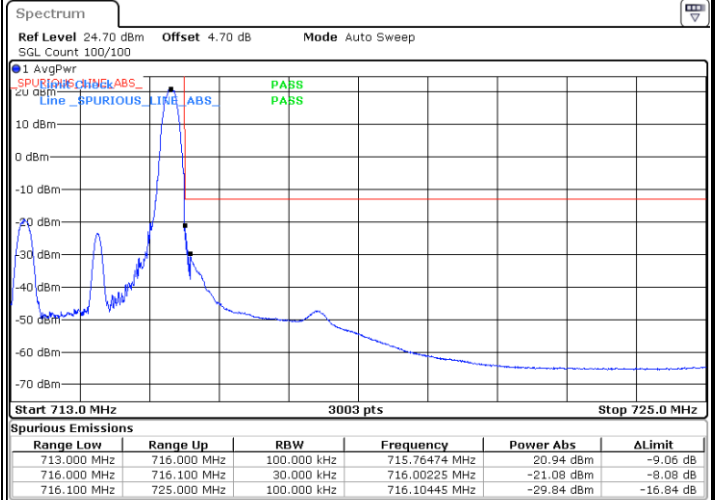
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



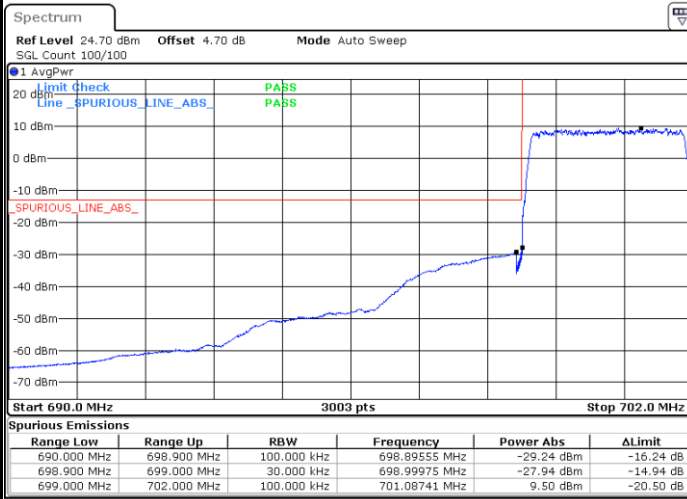
Date: 25 MAY 2021 17:36:05

Highest Band Edge / 1 RB



Date: 25 MAY 2021 17:41:40

Lowest Band Edge / Full RB



Date: 25 MAY 2021 17:31:55

Highest Band Edge / Full RB

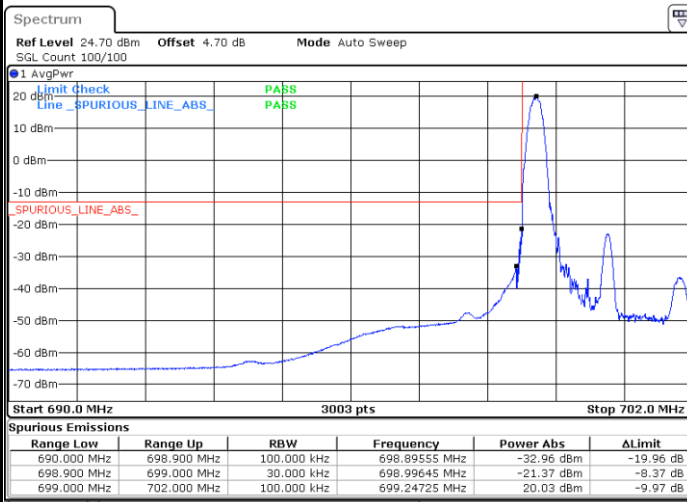


Date: 25 MAY 2021 17:37:29



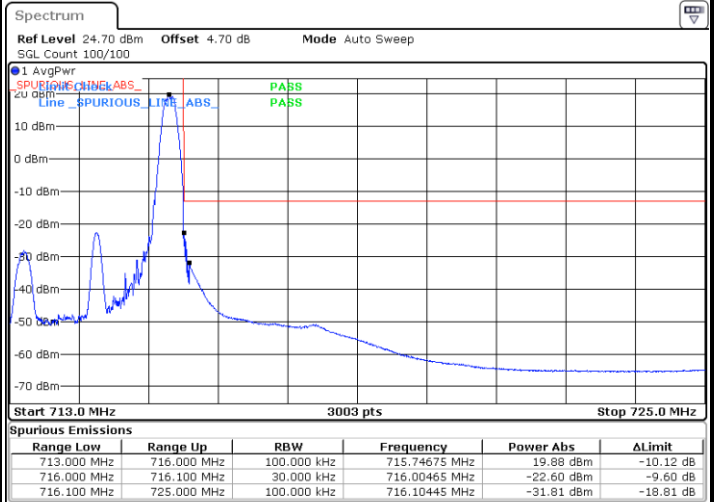
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



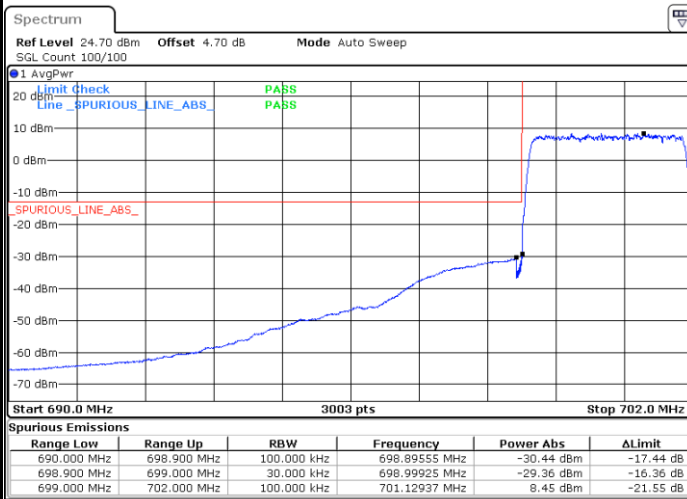
Date: 25 MAY 2021 17:34:42

Highest Band Edge / 1 RB



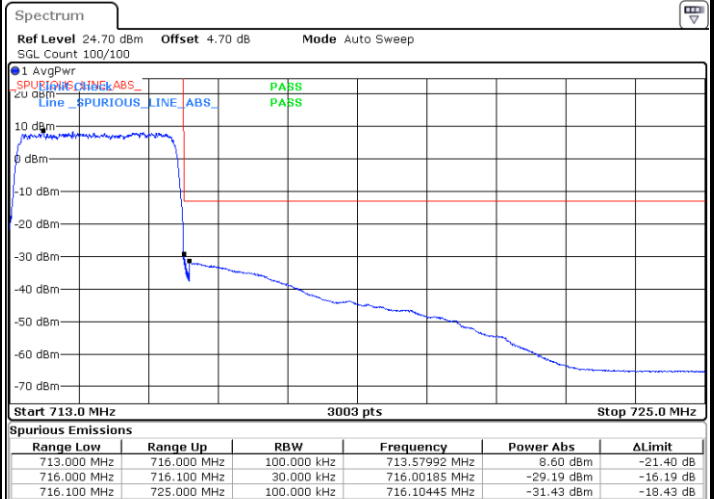
Date: 25 MAY 2021 17:40:16

Lowest Band Edge / Full RB



Date: 25 MAY 2021 17:33:18

Highest Band Edge / Full RB

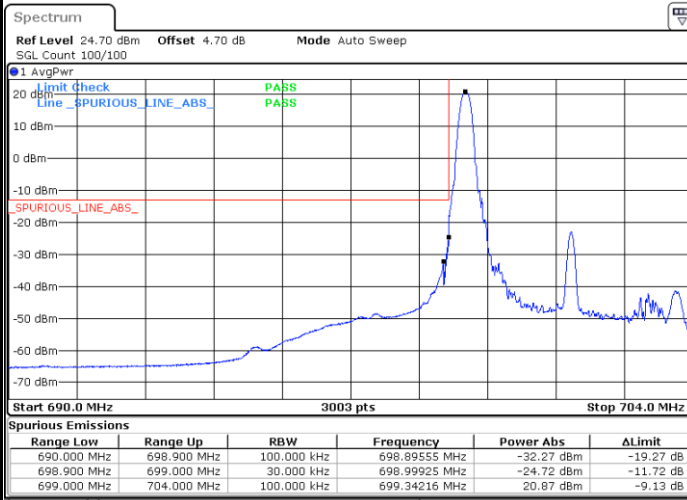


Date: 25 MAY 2021 17:38:53



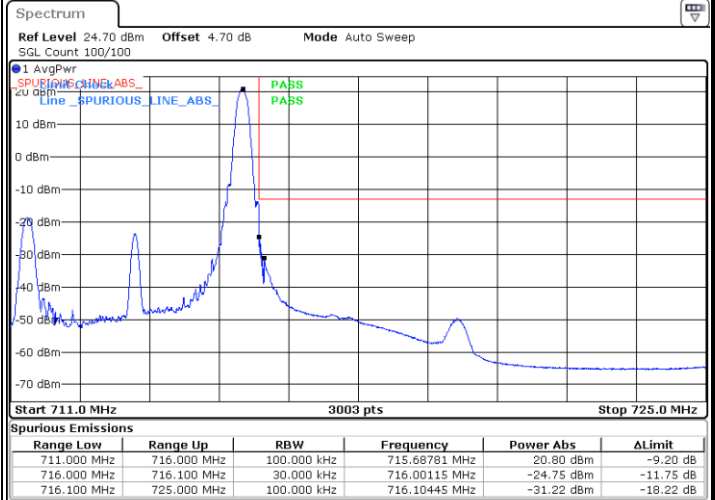
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



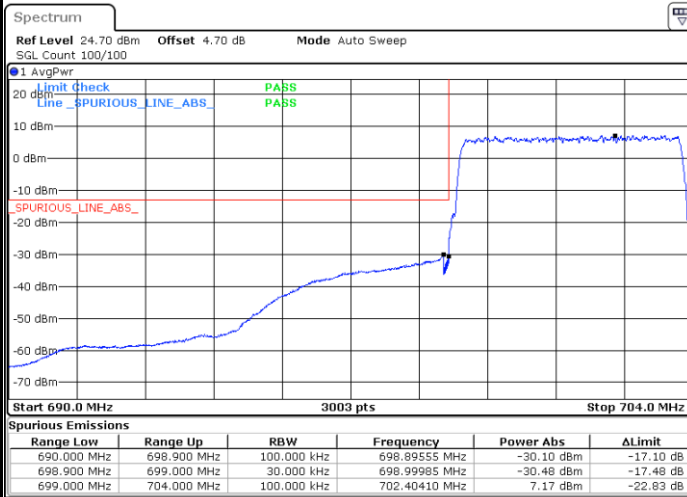
Date: 25 MAY 2021 17:47:15

Highest Band Edge / 1 RB



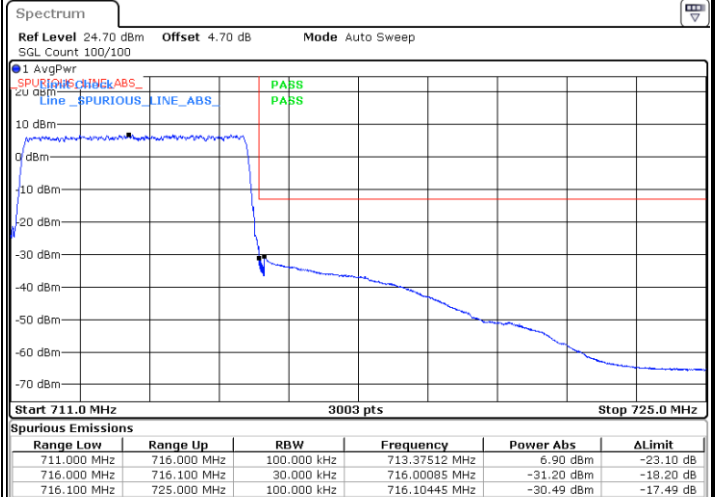
Date: 25 MAY 2021 17:51:27

Lowest Band Edge / Full RB



Date: 25 MAY 2021 17:43:04

Highest Band Edge / Full RB

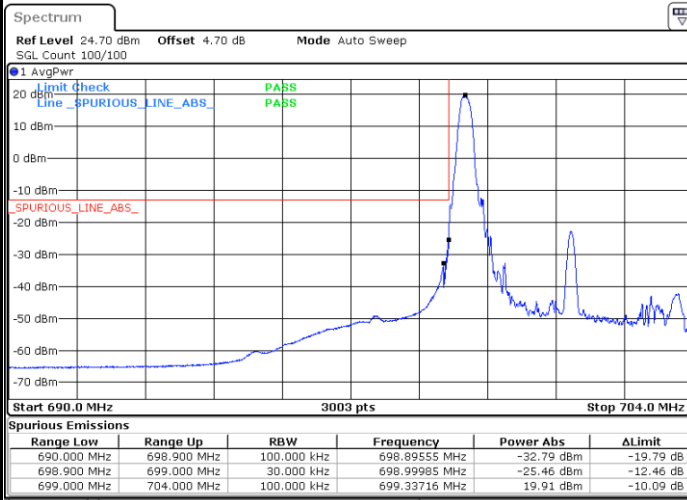


Date: 25 MAY 2021 17:48:38



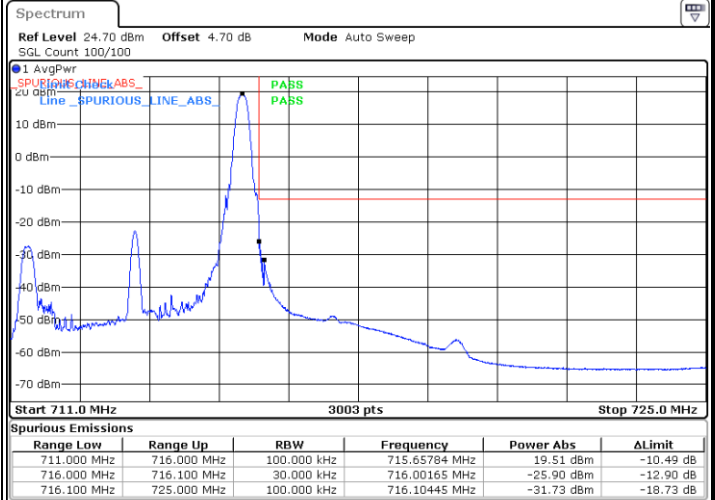
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



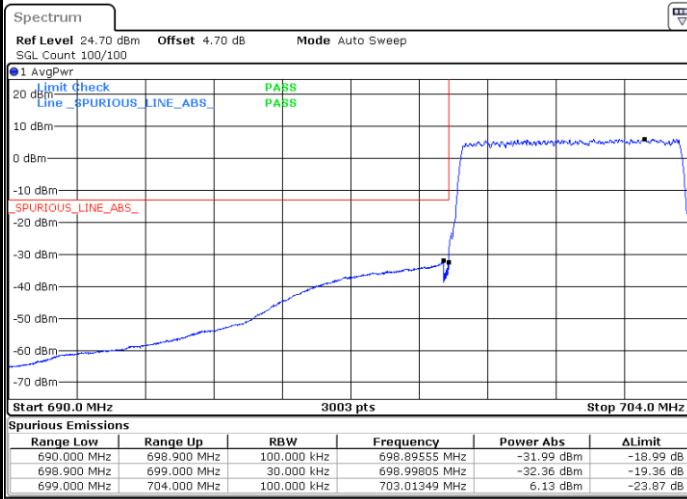
Date: 25 MAY 2021 17:45:51

Highest Band Edge / 1 RB



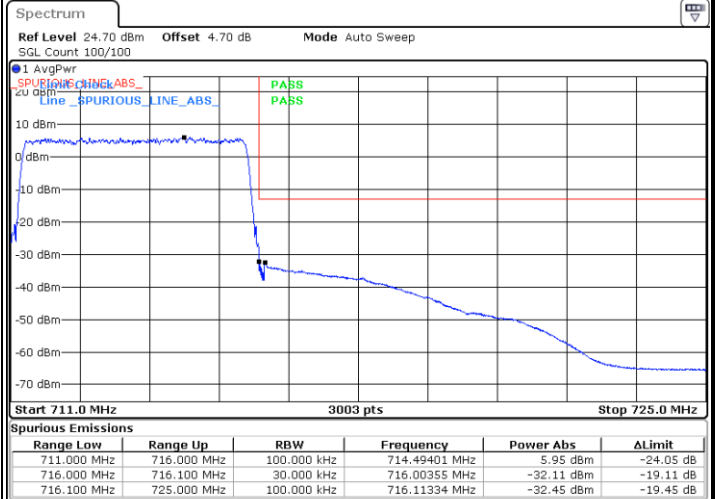
Date: 25 MAY 2021 17:52:50

Lowest Band Edge / Full RB



Date: 25 MAY 2021 17:44:28

Highest Band Edge / Full RB

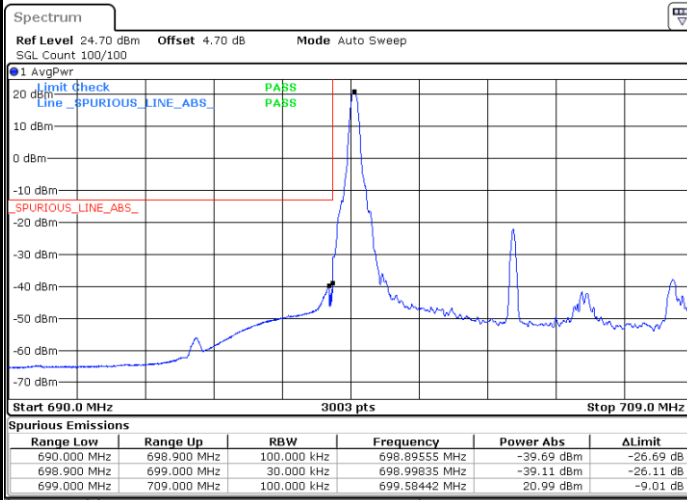


Date: 25 MAY 2021 17:50:02



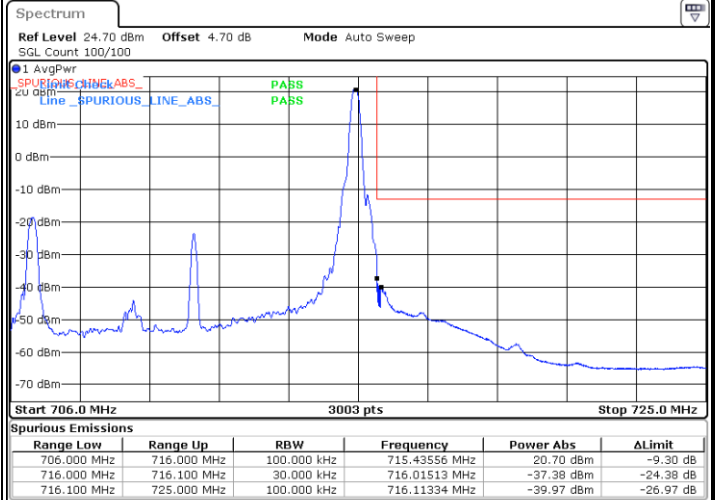
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



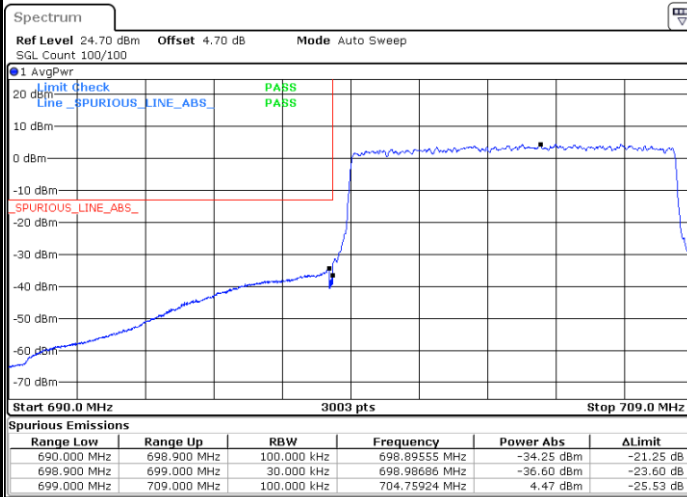
Date: 25 MAY 2021 17:58:25

Highest Band Edge / 1 RB



Date: 25 MAY 2021 18:04:00

Lowest Band Edge / Full RB



Date: 25 MAY 2021 17:54:14

Highest Band Edge / Full RB

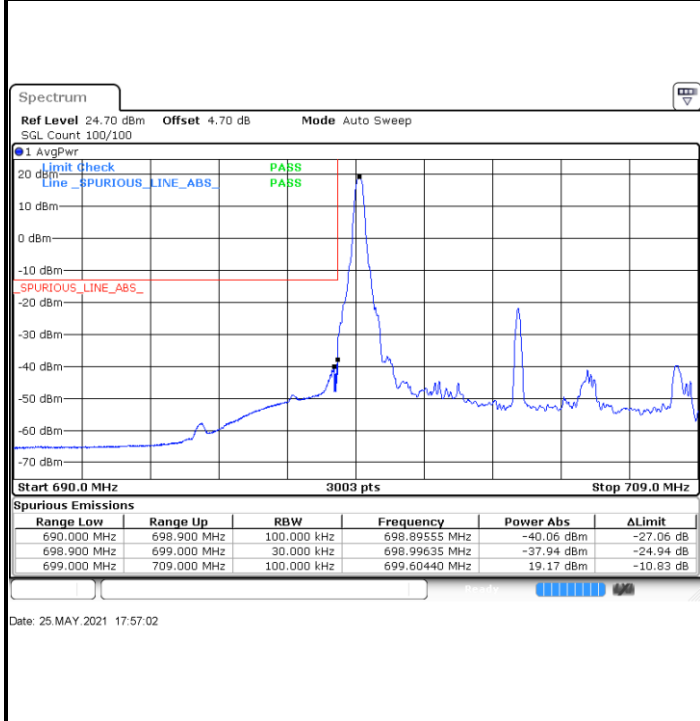


Date: 25 MAY 2021 17:59:49

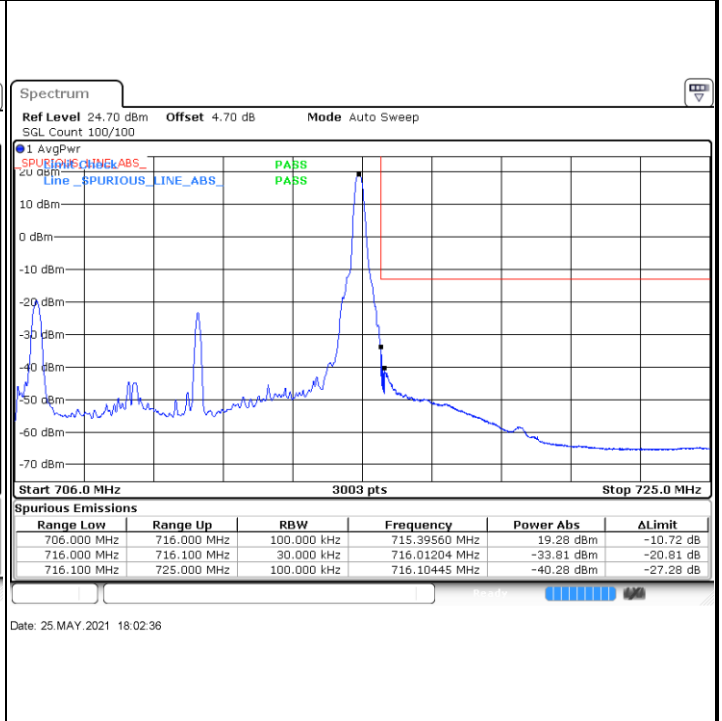


LTE Band 12 / 10MHz / 16QAM

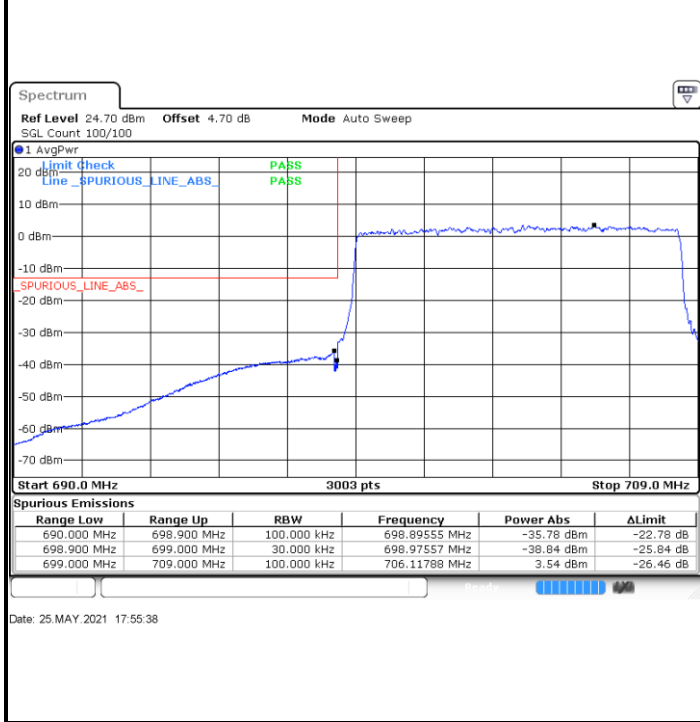
Lowest Band Edge / 1 RB



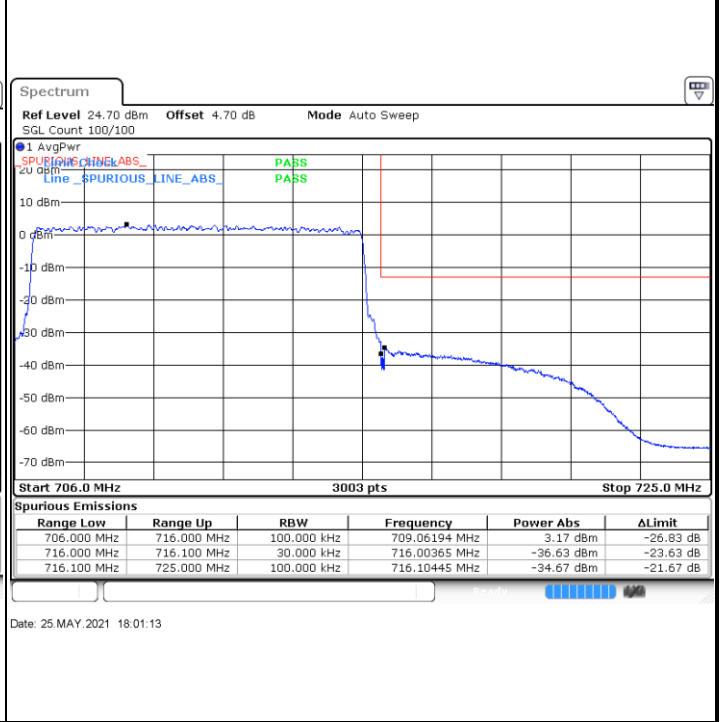
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

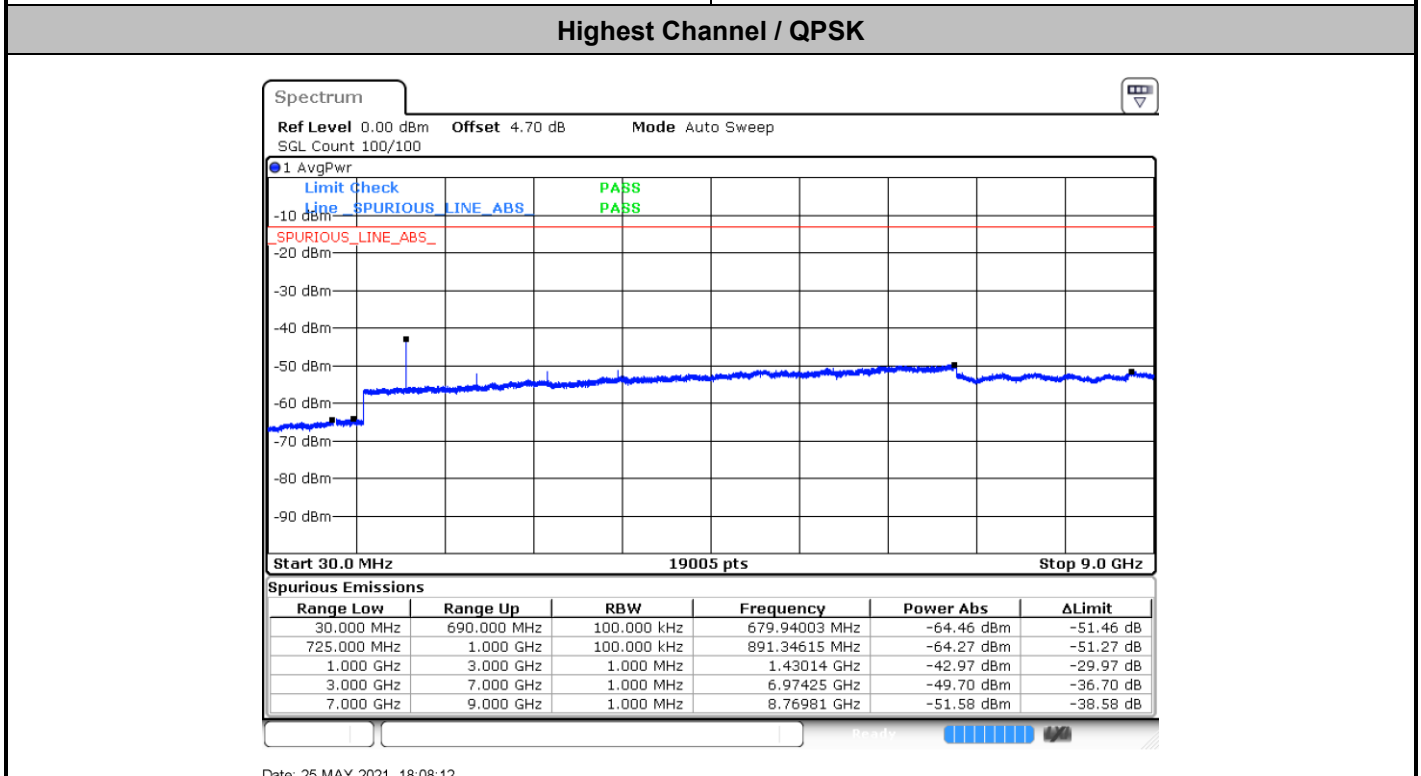
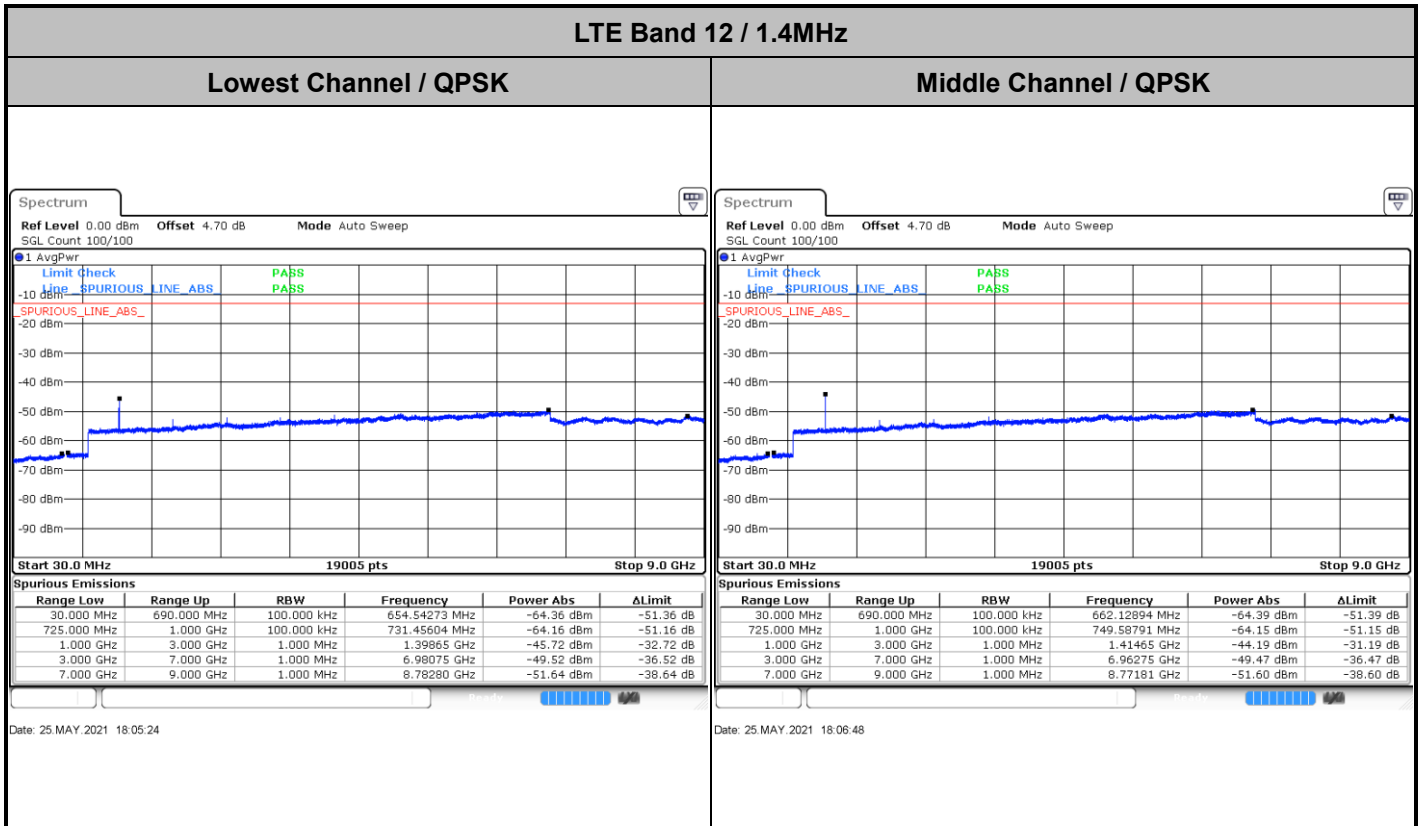


Highest Band Edge / Full RB





Conducted Spurious Emission

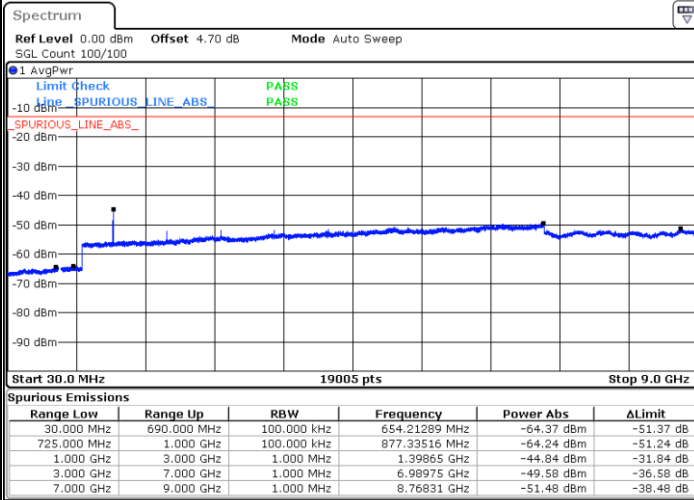




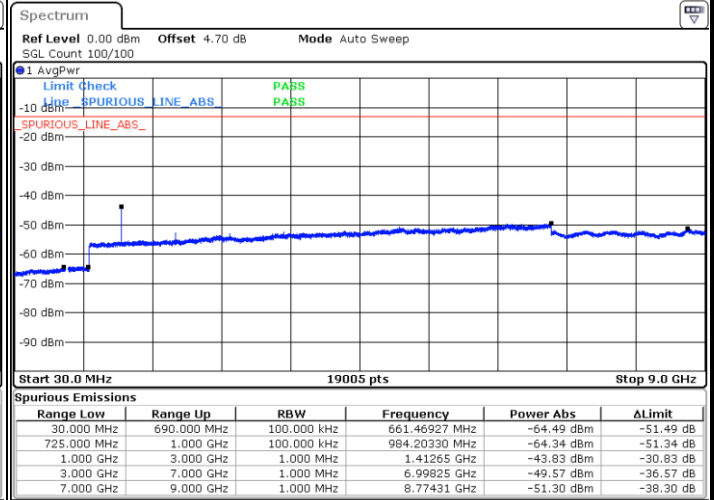
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK

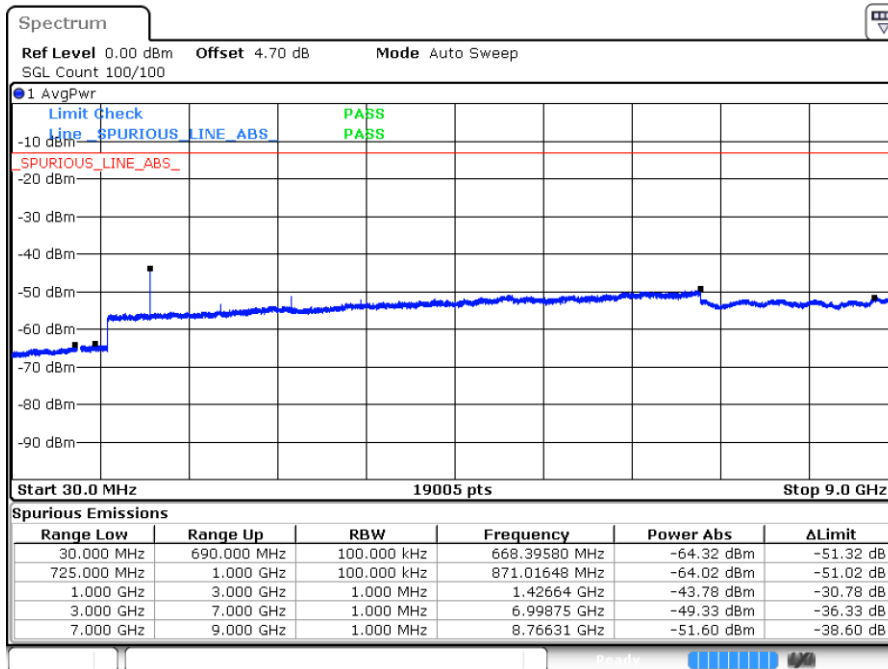


Date: 25 MAY 2021 18:09:36



Date: 25 MAY 2021 18:10:59

Highest Channel / QPSK

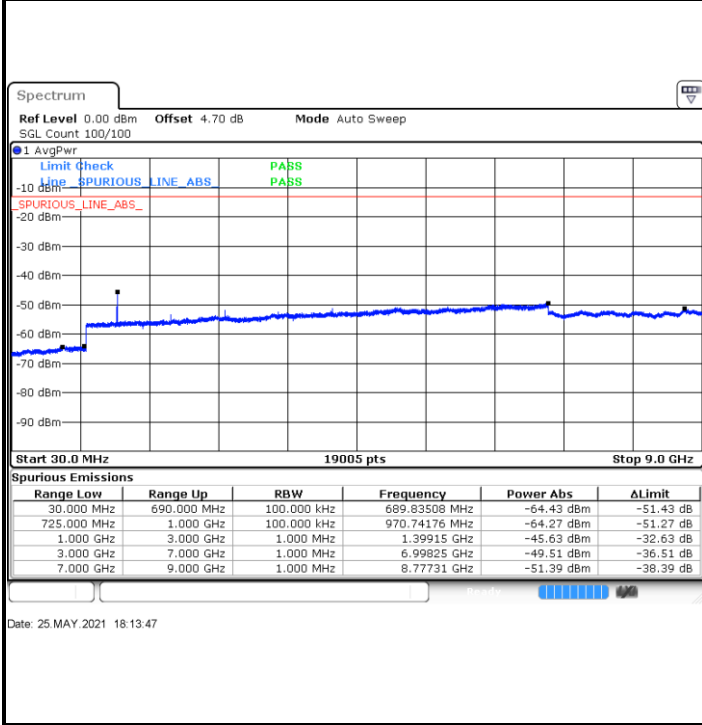


Date: 25 MAY 2021 18:12:23

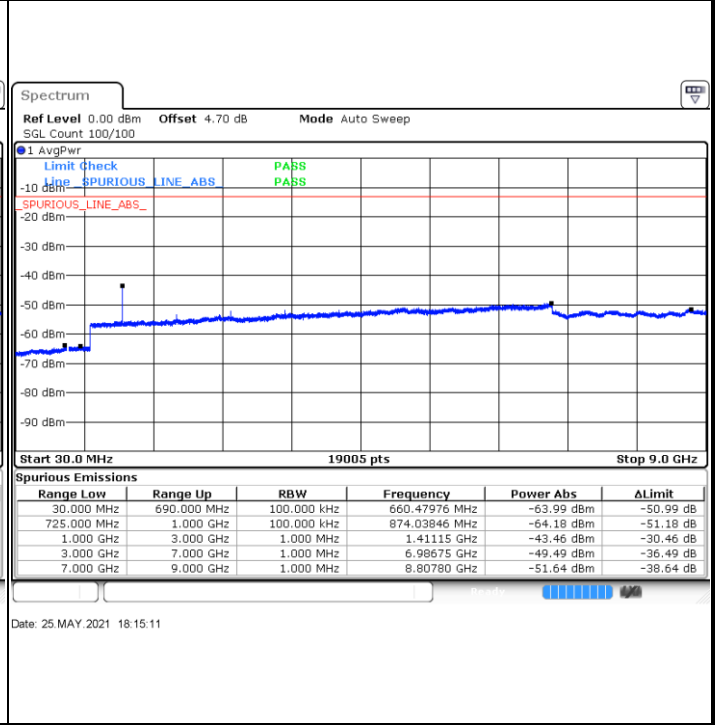


LTE Band 12 / 5MHz

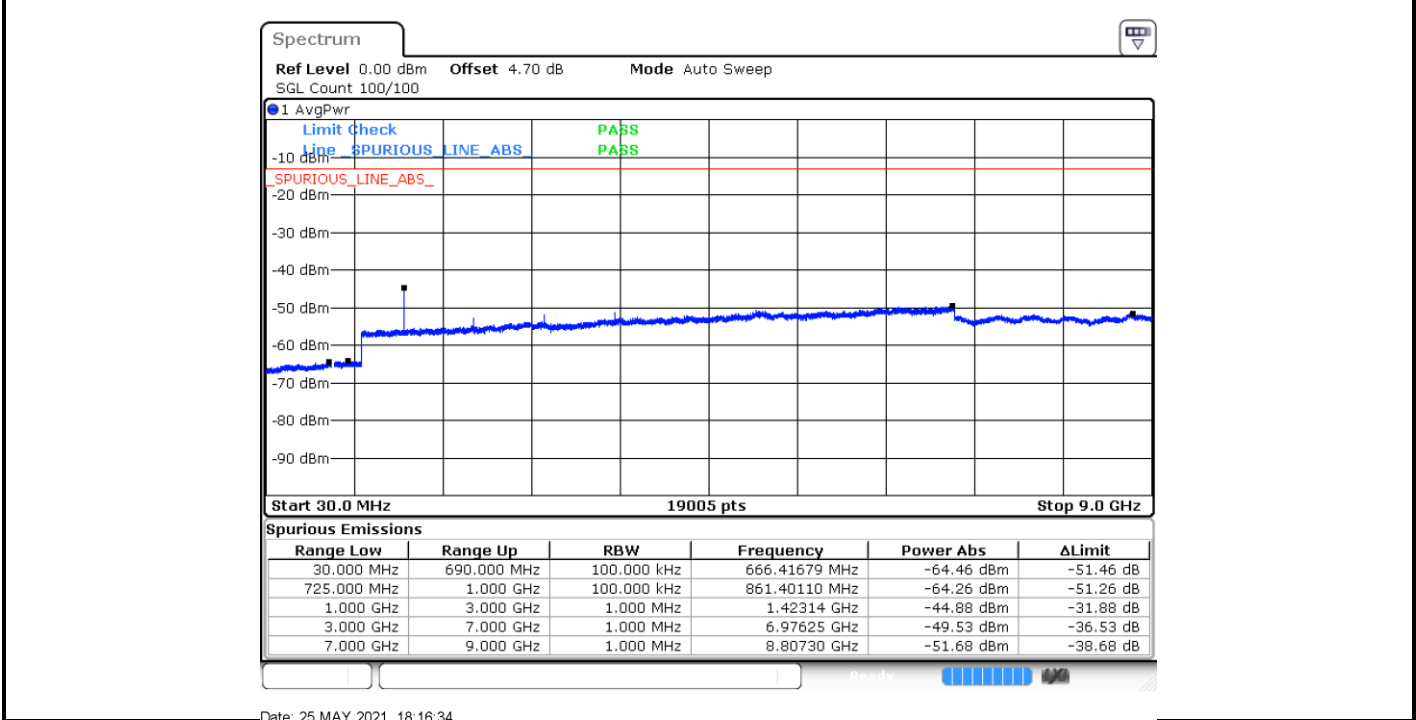
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

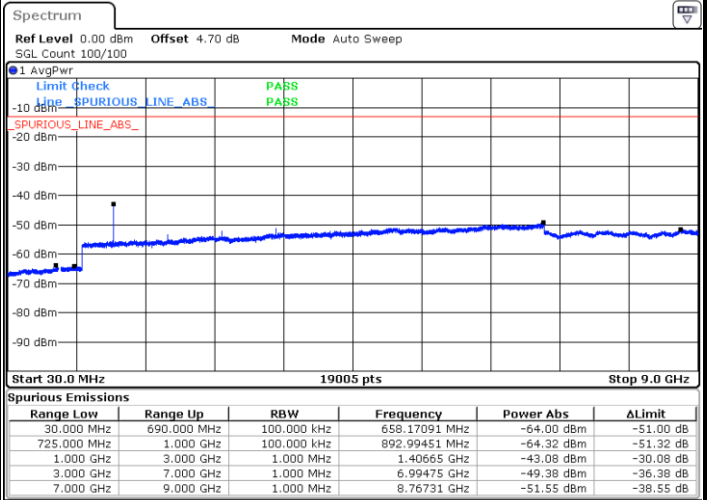
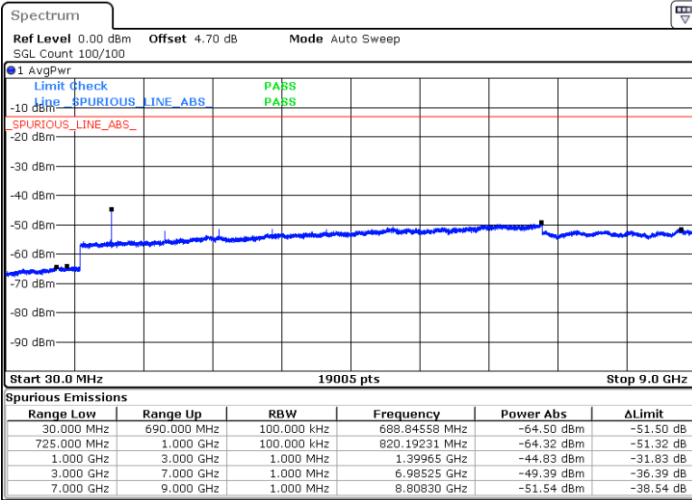




LTE Band 12 / 10MHz

Lowest Channel / QPSK

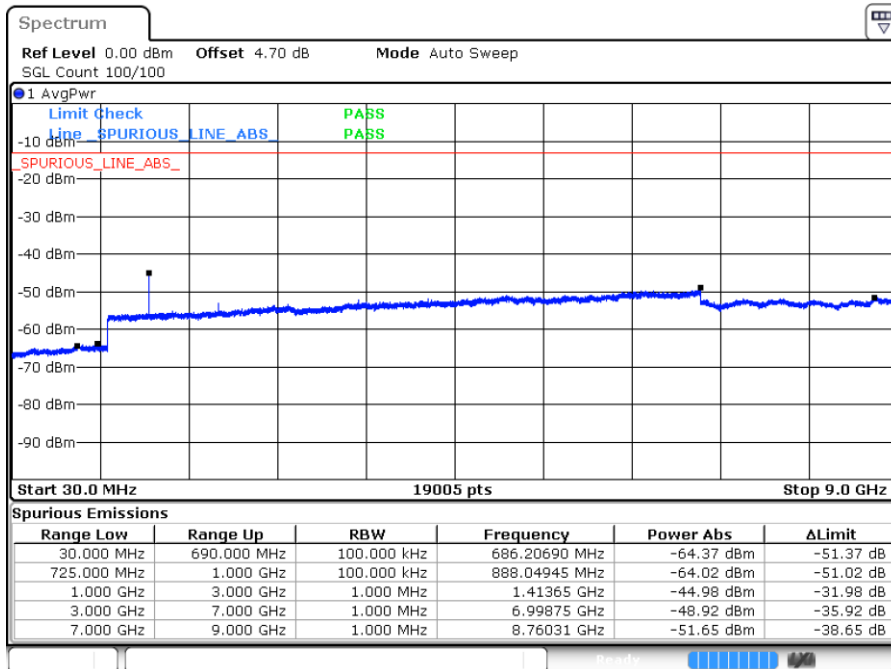
Middle Channel / QPSK



Date: 25 MAY 2021 18:17:58

Date: 25 MAY 2021 18:19:22

Highest Channel / QPSK



Date: 25 MAY 2021 18:20:45



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	0.0009	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0001	

Note:

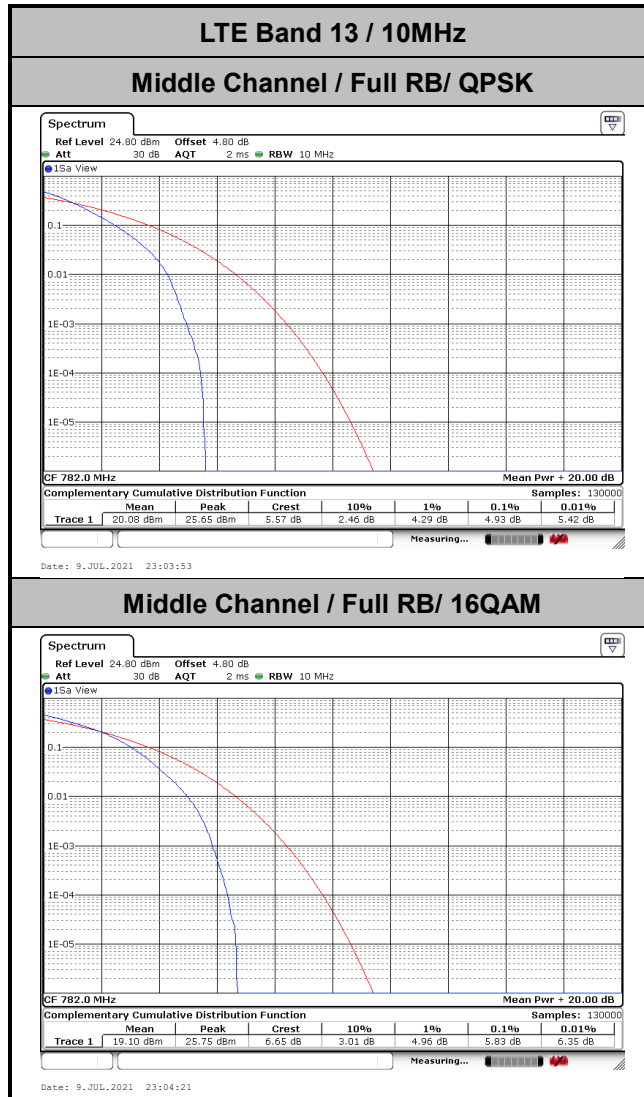
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

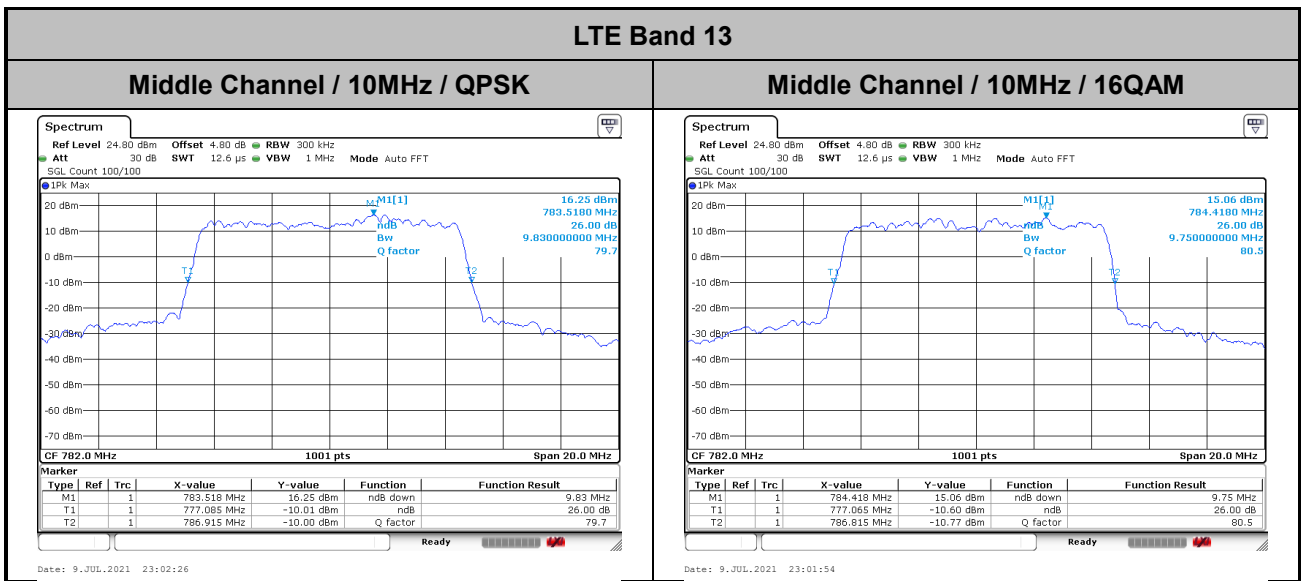
Mode	LTE Band 13 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.93	5.83	PASS





26dB Bandwidth

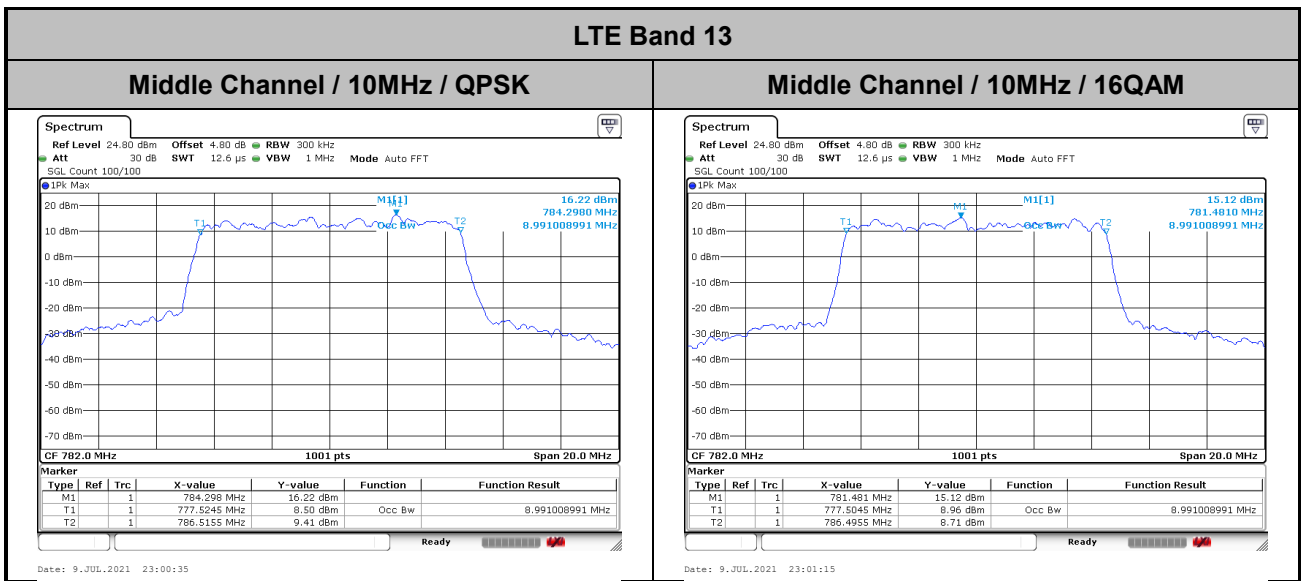
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.75





Occupied Bandwidth

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



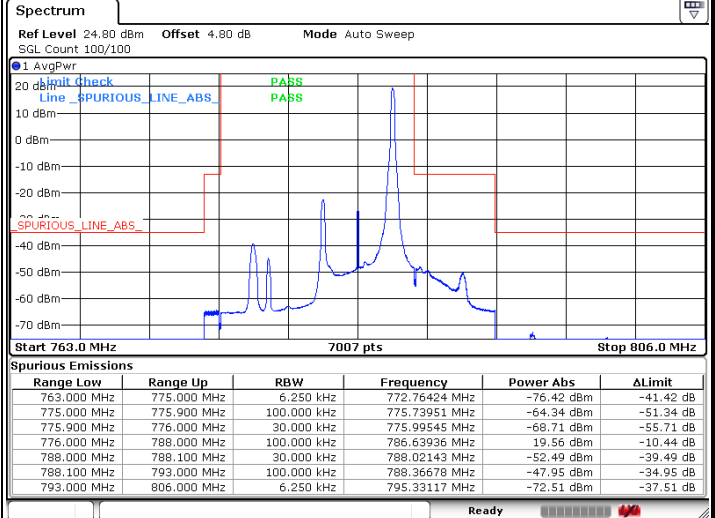
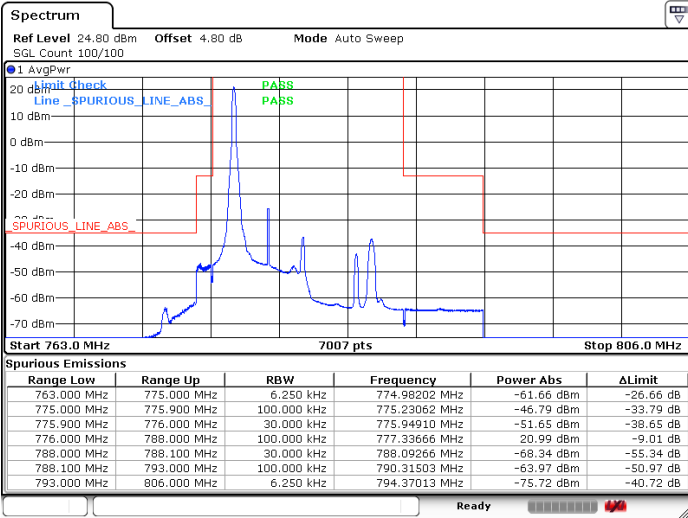


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

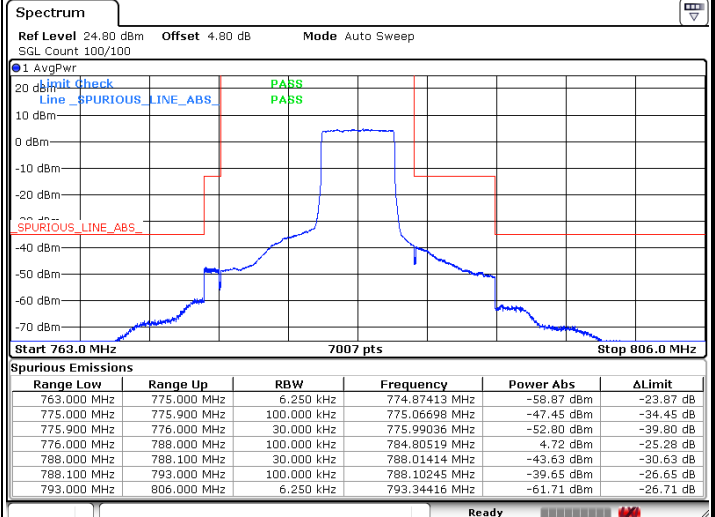
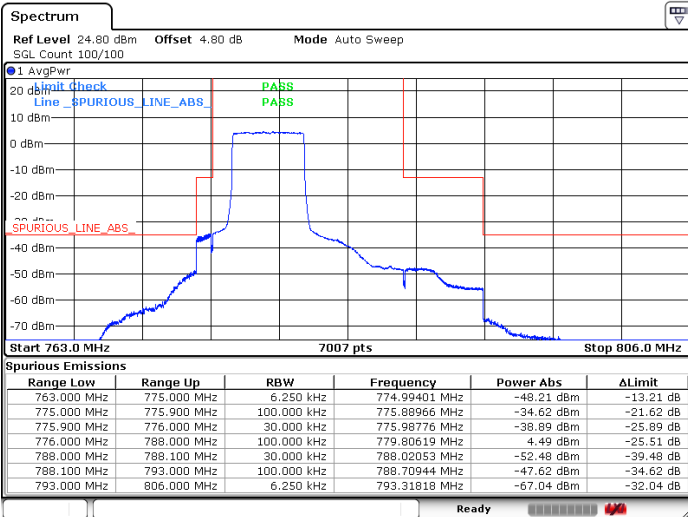


Date: 29 JUL 2021 16:54:28

Date: 9 JUL 2021 22:27:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9 JUL 2021 23:18:12

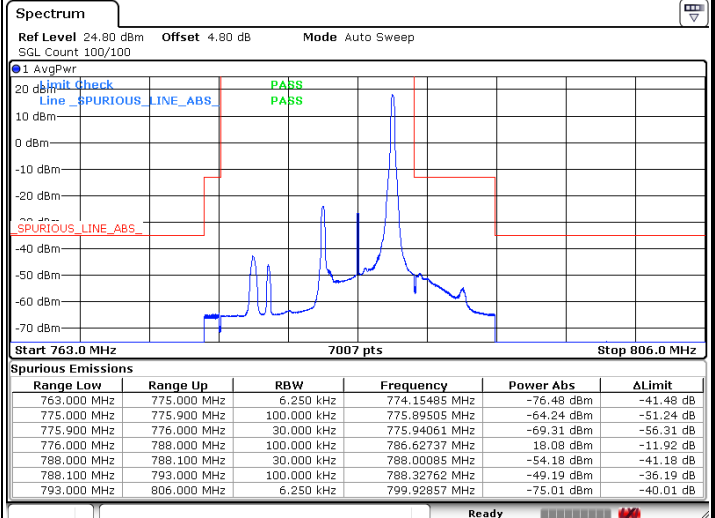
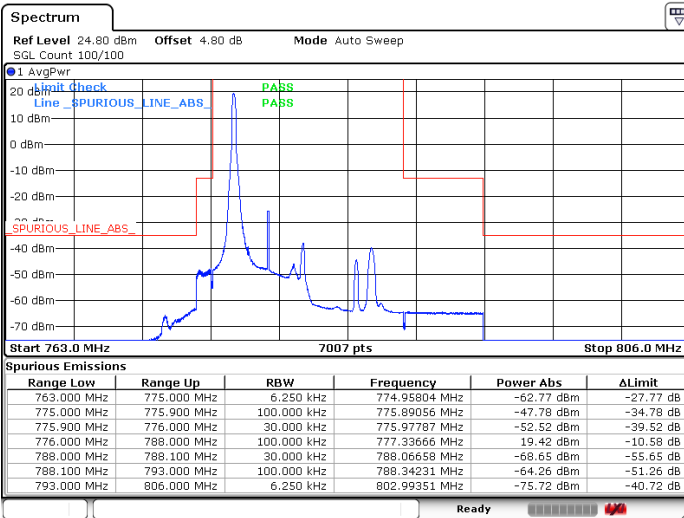
Date: 9 JUL 2021 22:35:36



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

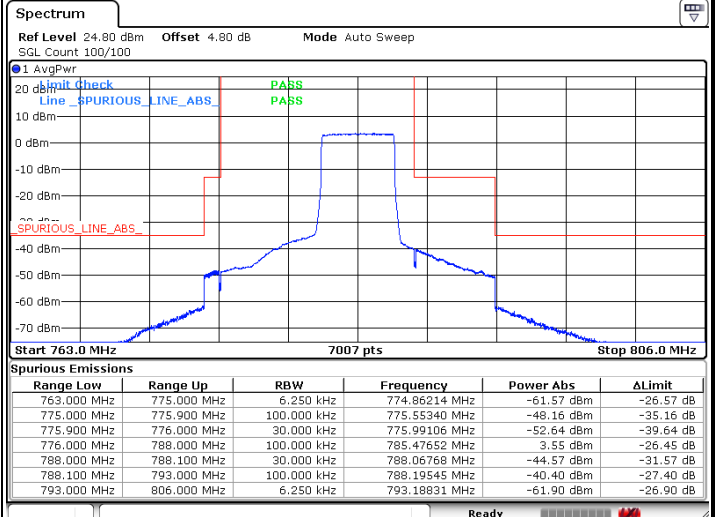
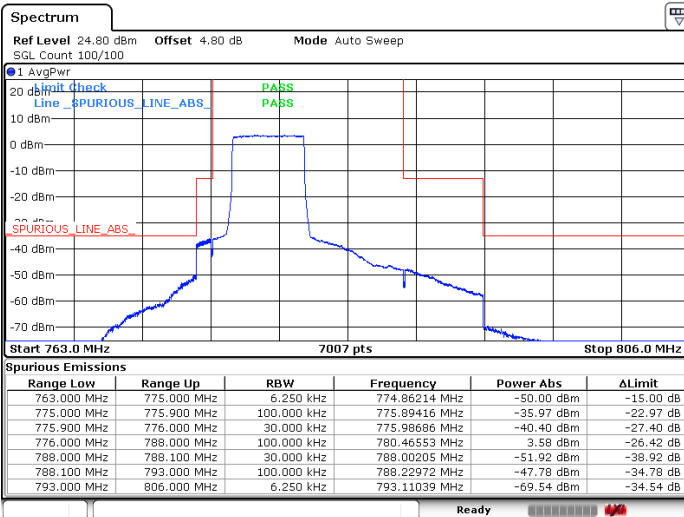


Date: 29.JUL.2021 16:55:52

Date: 9.JUL.2021 22:29:25

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



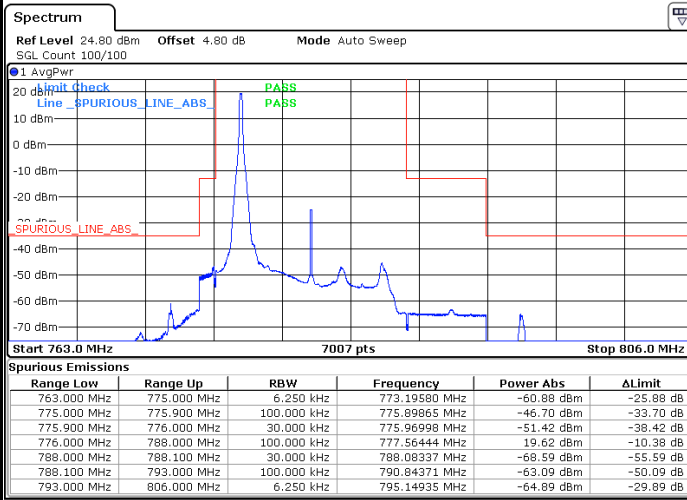
Date: 9.JUL.2021 23:19:55

Date: 9.JUL.2021 22:34:25



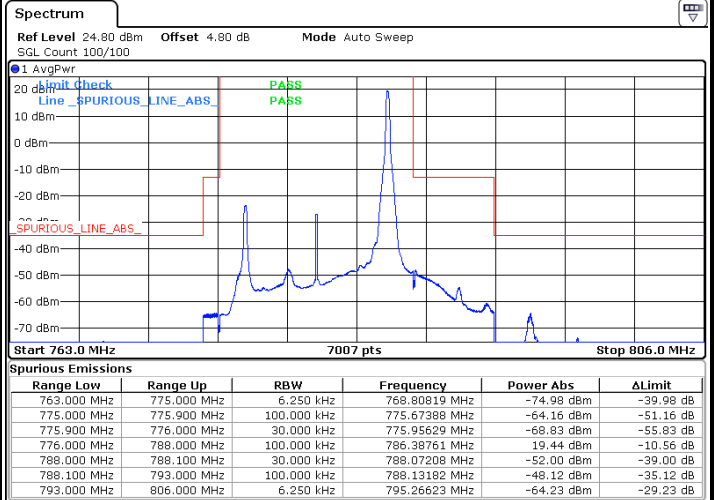
LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB



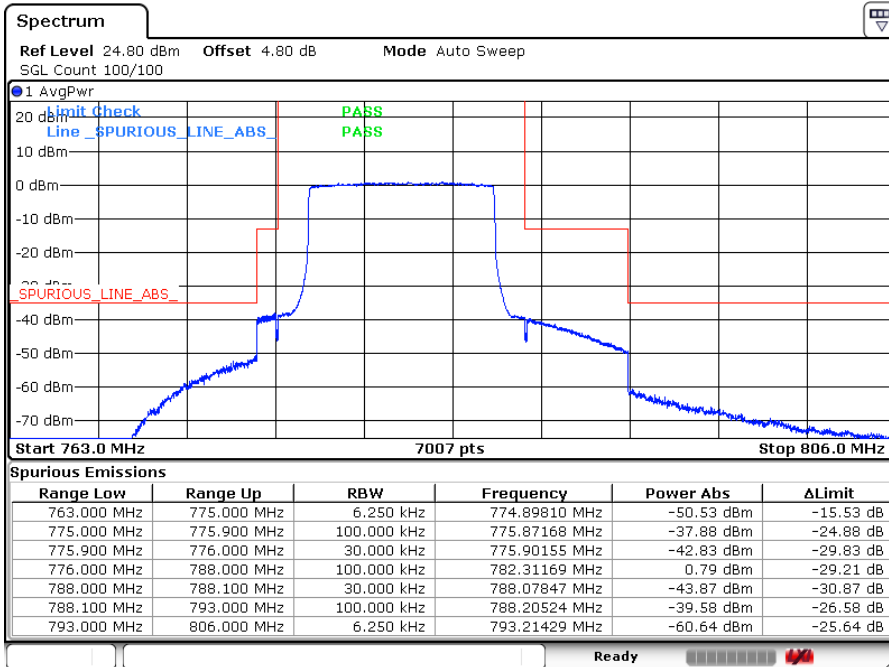
Date: 9 JUL 2021 22:45:41

middle Band Edge / 1 RB



Date: 9 JUL 2021 22:52:50

Middle Band Edge / Full RB

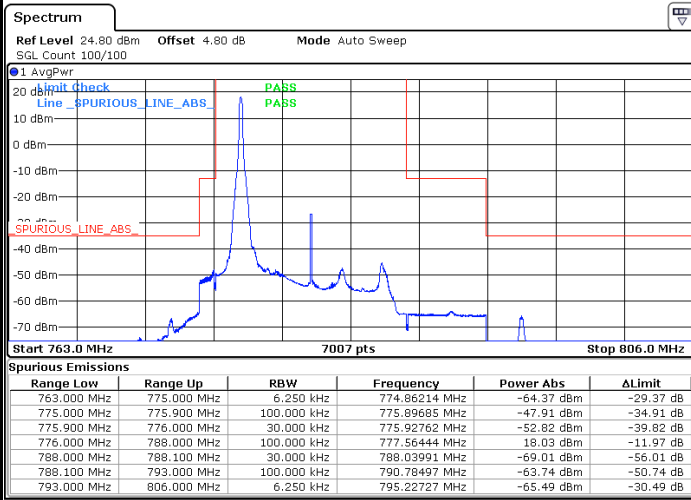


Date: 9 JUL 2021 22:56:03



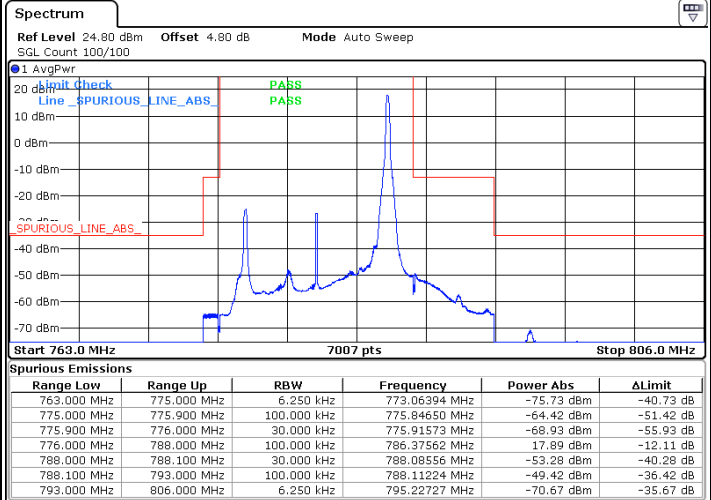
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



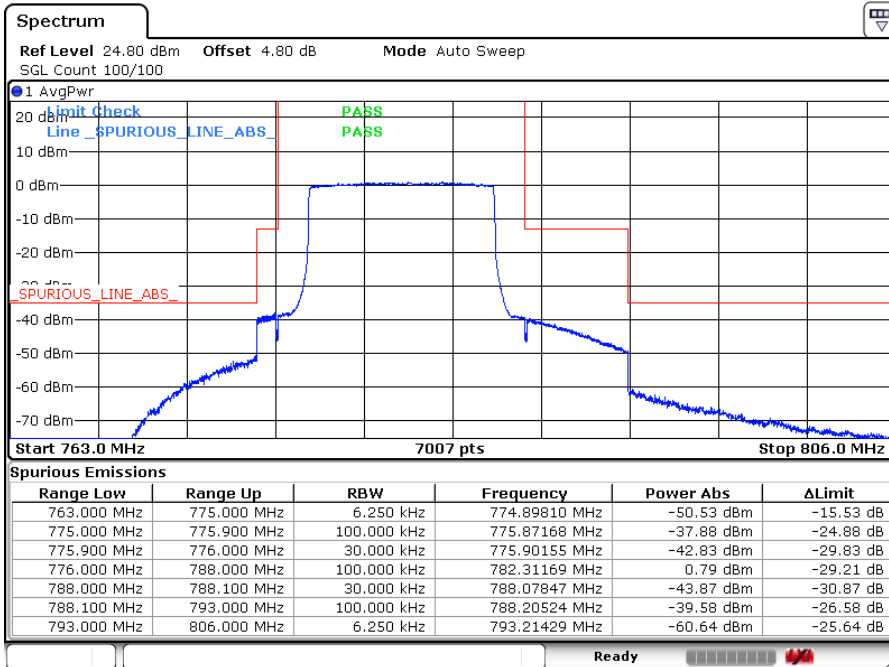
Date: 9.JUL.2021 22:47:51

middle Band Edge / 1 RB



Date: 9.JUL.2021 22:51:35

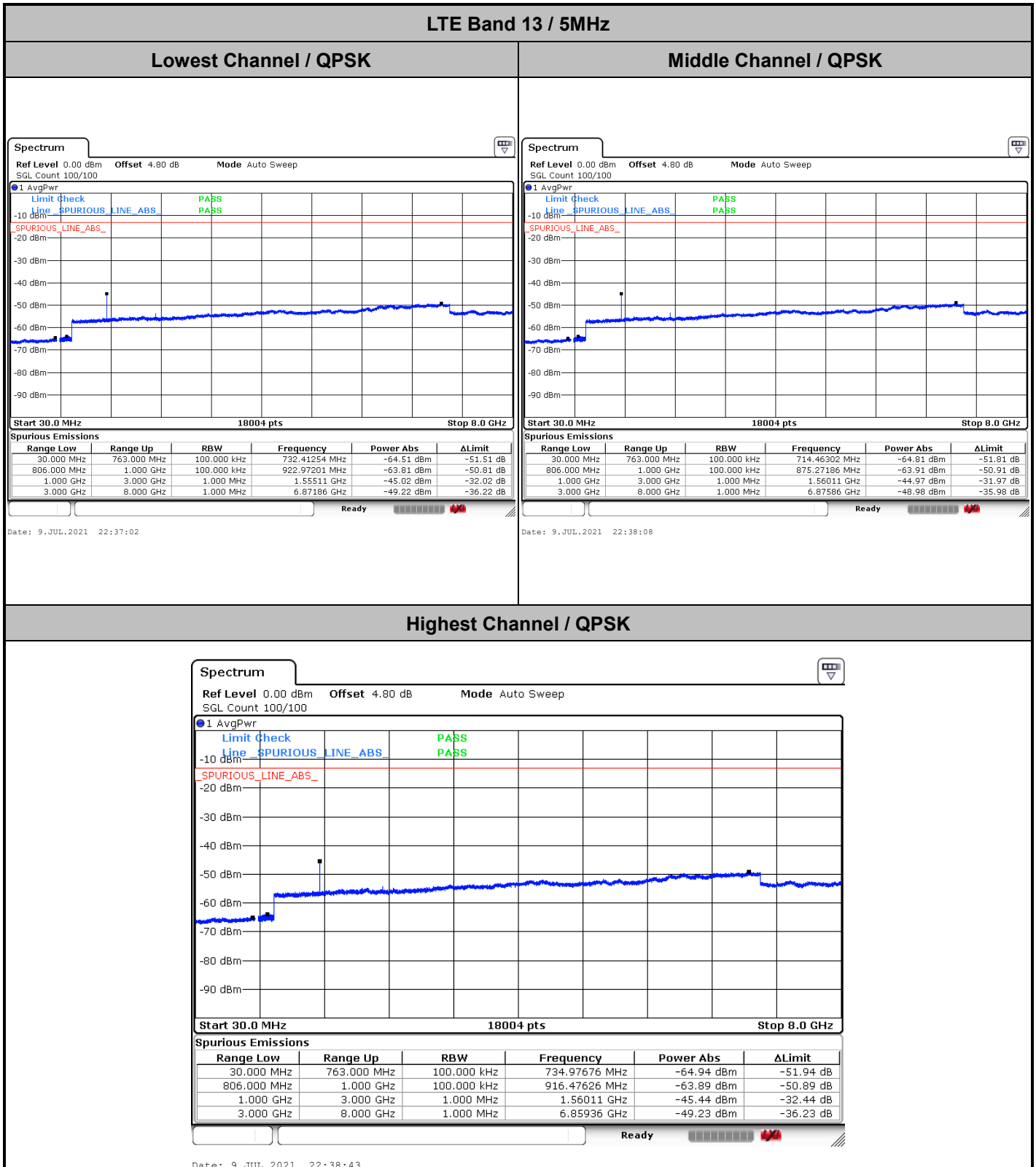
middle Band Edge / Full RB



Date: 9.JUL.2021 22:56:03



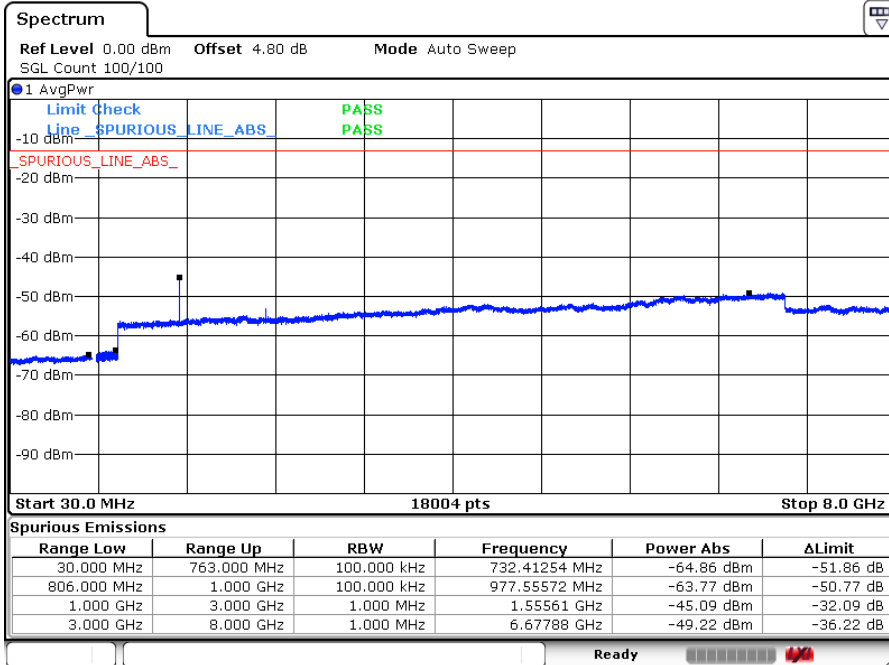
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 9 JUL 2021 22:59:44



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	0.0002	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0008	

Note:

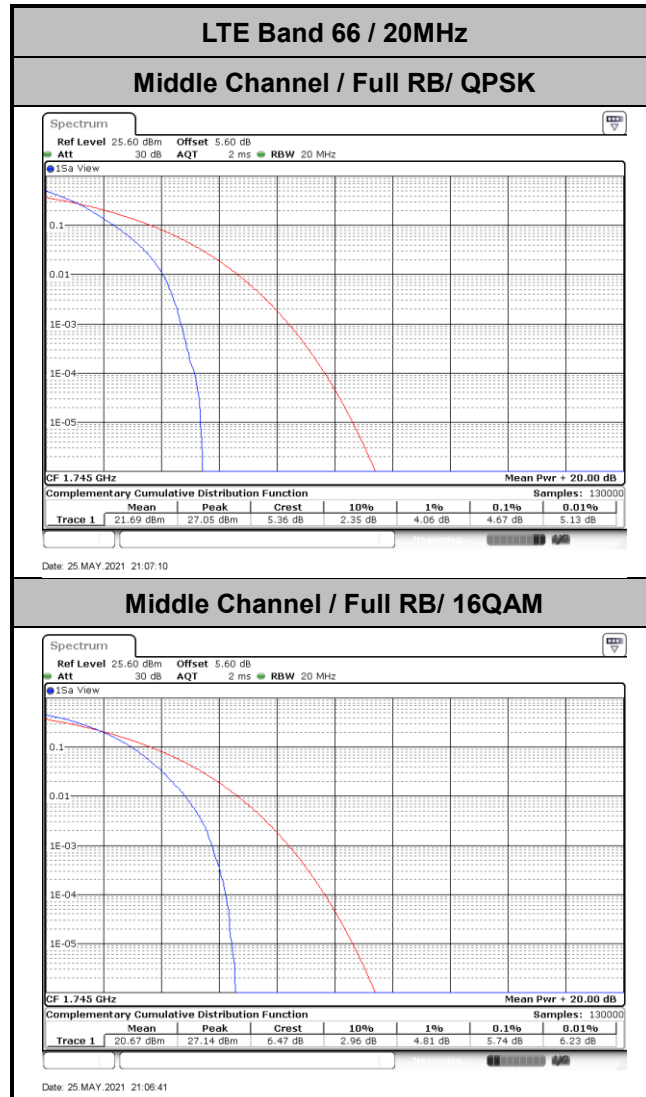
1. Normal Voltage =3.8 V ; Battery End Point (BEP) =3.6V ; Maximum Voltage =4.3V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

Peak-to-Average Ratio

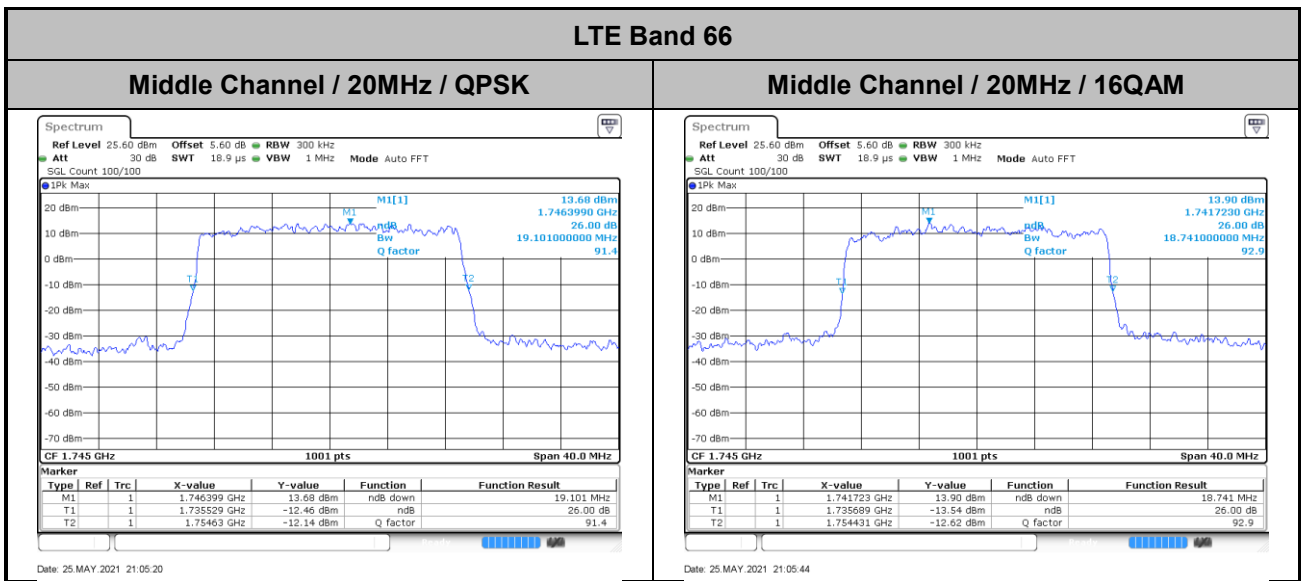
Mode	LTE Band 66 / 20MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.67	5.74	PASS





26dB Bandwidth

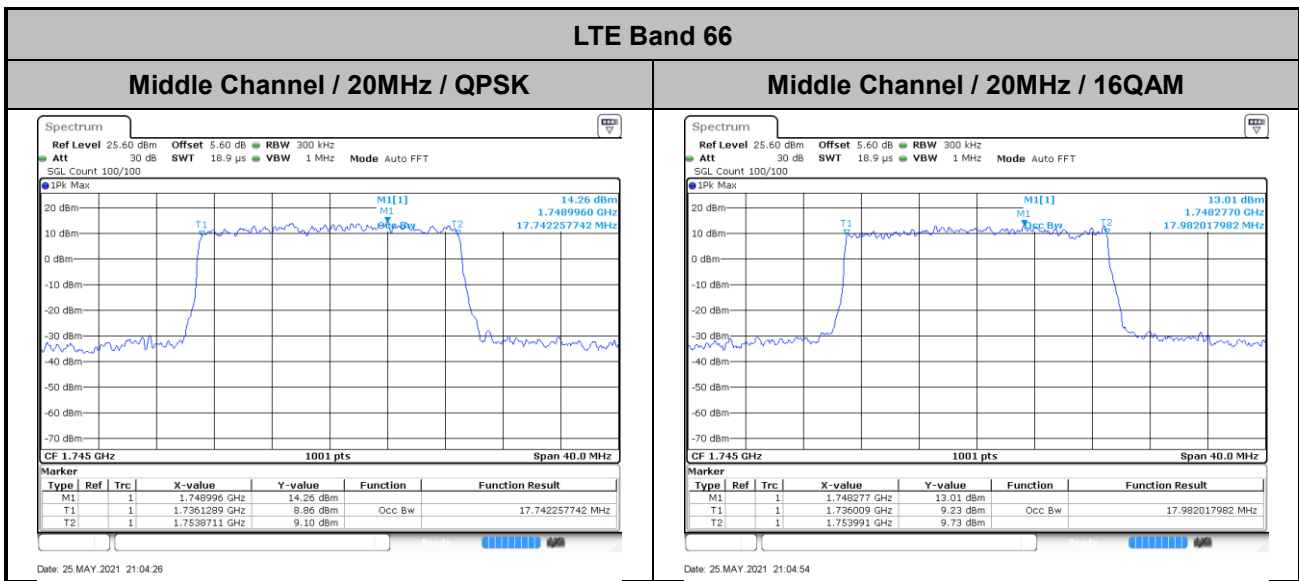
Mode	LTE Band 66 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.10	18.74





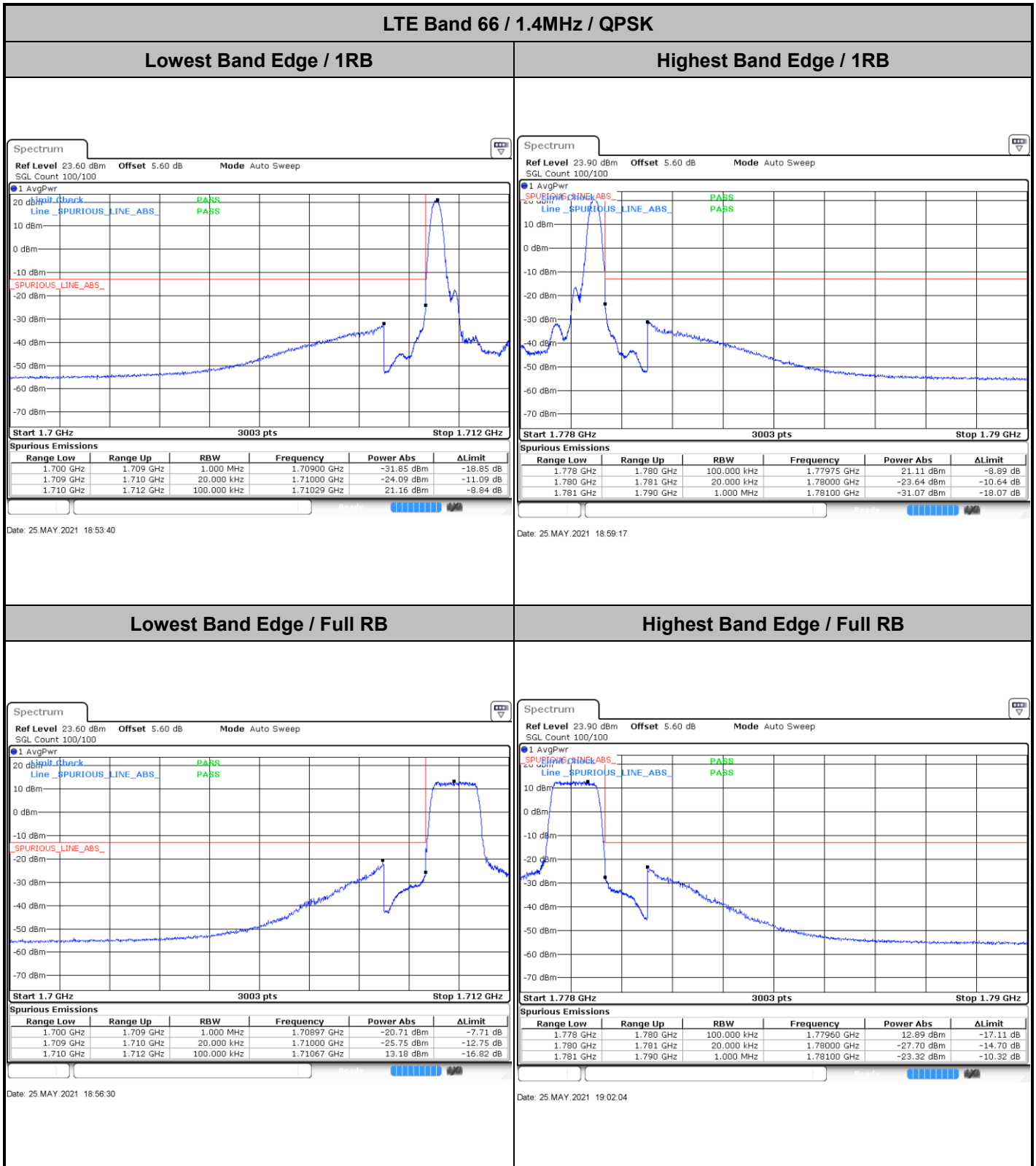
Occupied Bandwidth

Mode	LTE Band 66 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.74	17.98





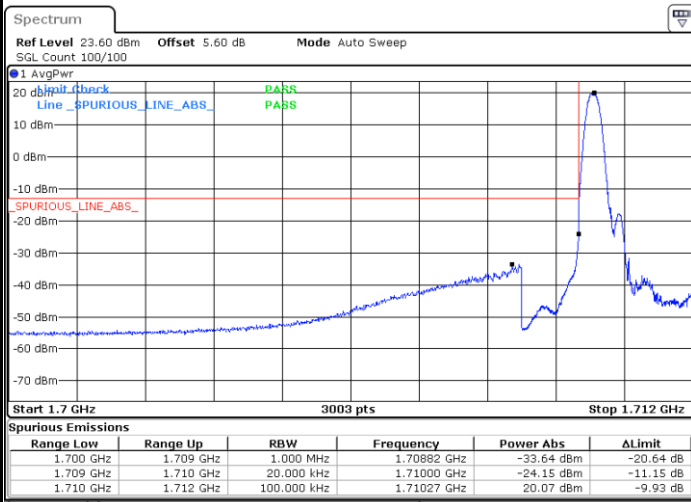
Conducted Band Edge





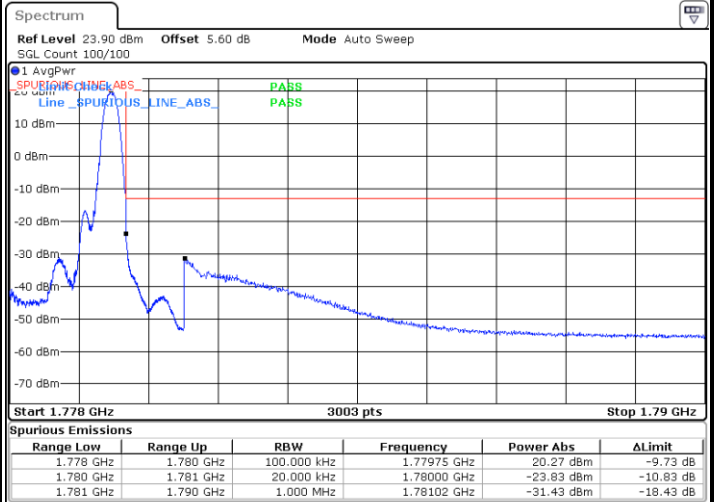
LTE Band 66 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



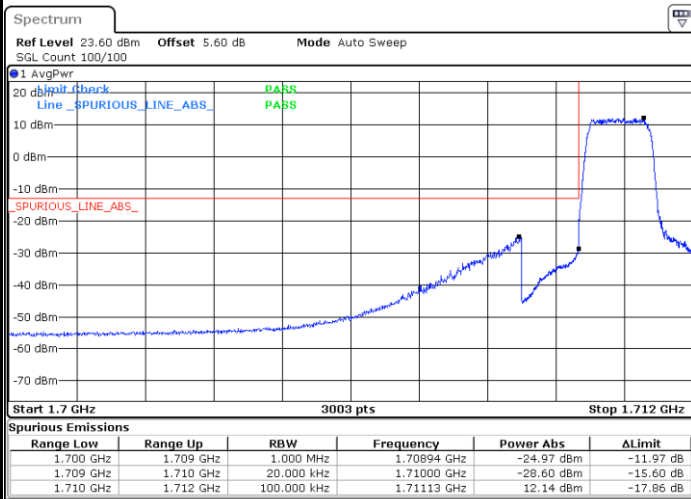
Date: 25 MAY 2021 18:55:06

Highest Band Edge / 1 RB



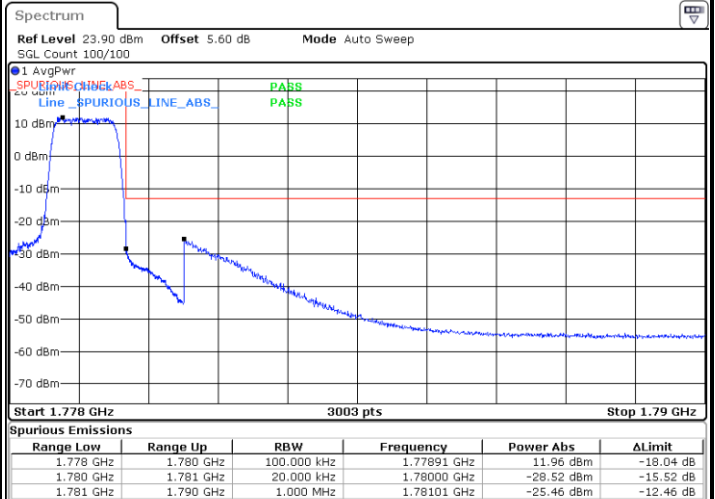
Date: 25 MAY 2021 19:00:41

Lowest Band Edge / Full RB



Date: 25 MAY 2021 18:57:54

Highest Band Edge / Full RB

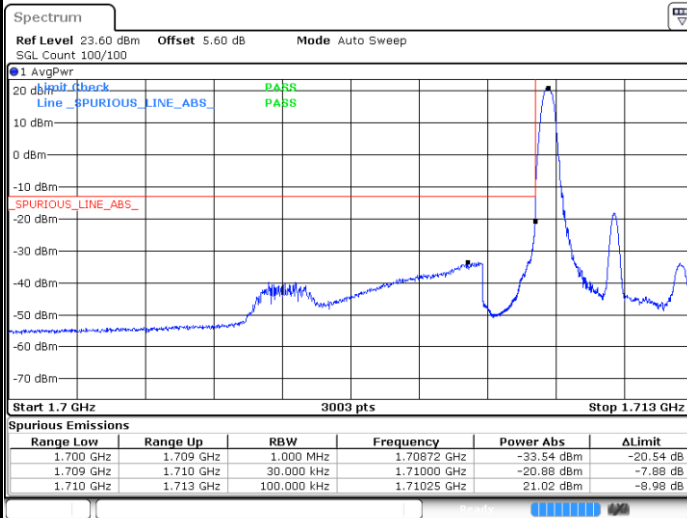


Date: 25 MAY 2021 19:03:28



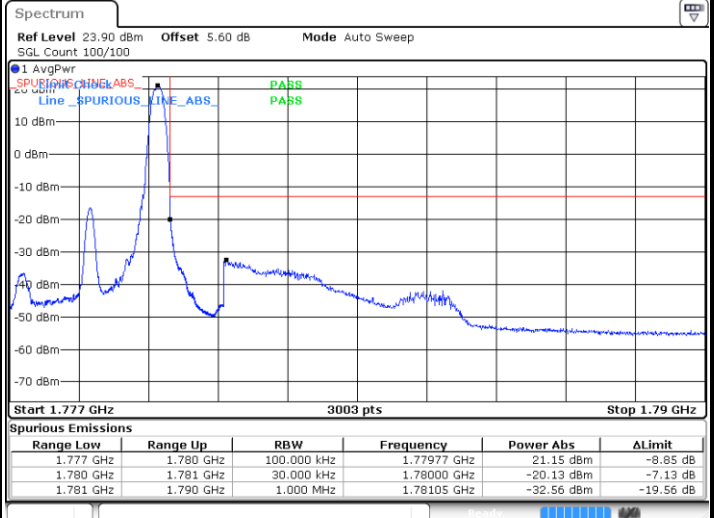
LTE Band 66 / 3MHz / QPSK

Lowest Band Edge / 1RB



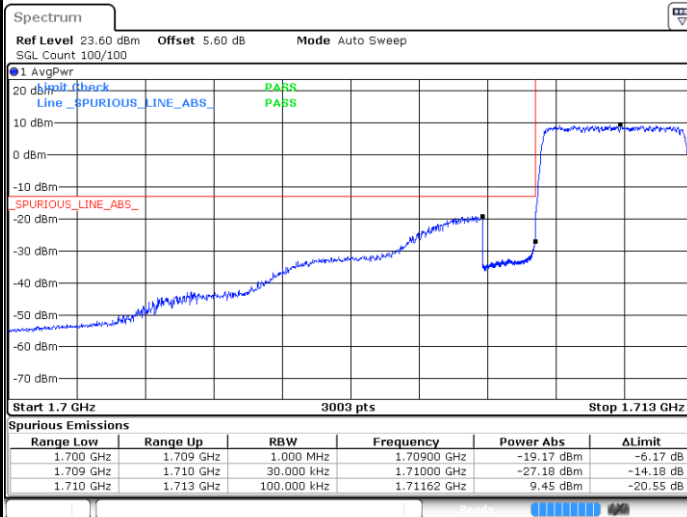
Date: 25 MAY 2021 19:04:52

Highest Band Edge / 1 RB



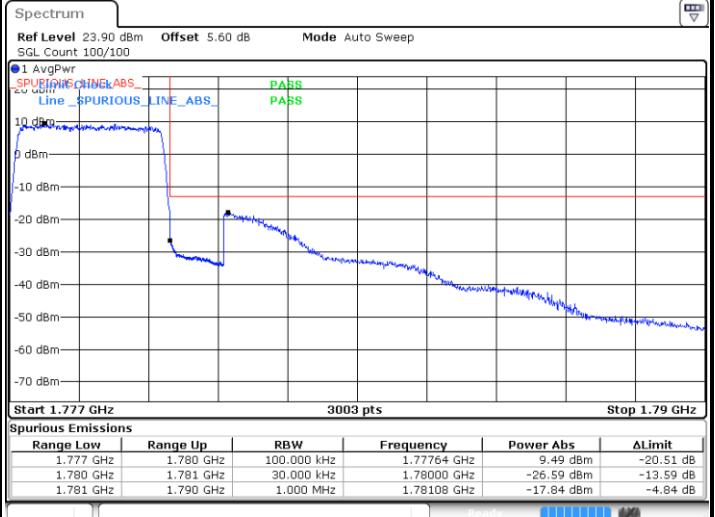
Date: 25 MAY 2021 19:10:27

Lowest Band Edge / Full RB



Date: 25 MAY 2021 19:07:39

Highest Band Edge / Full RB

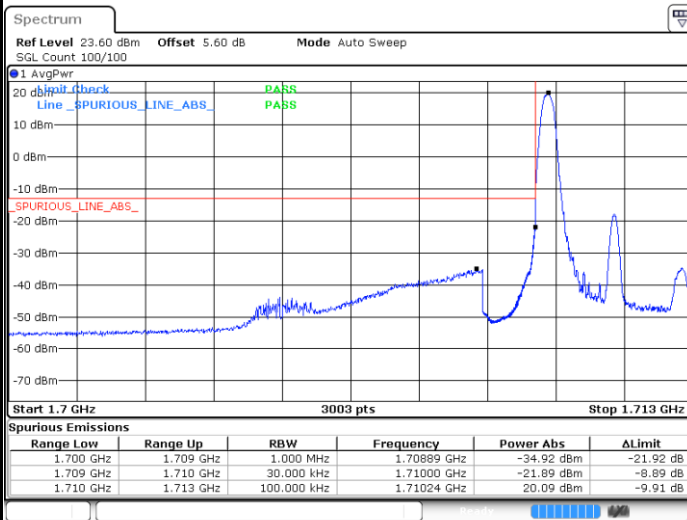


Date: 25 MAY 2021 19:13:14



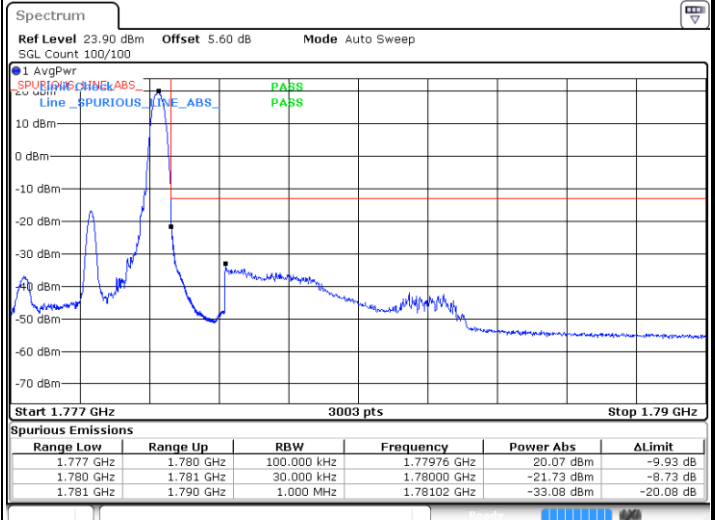
LTE Band 66 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



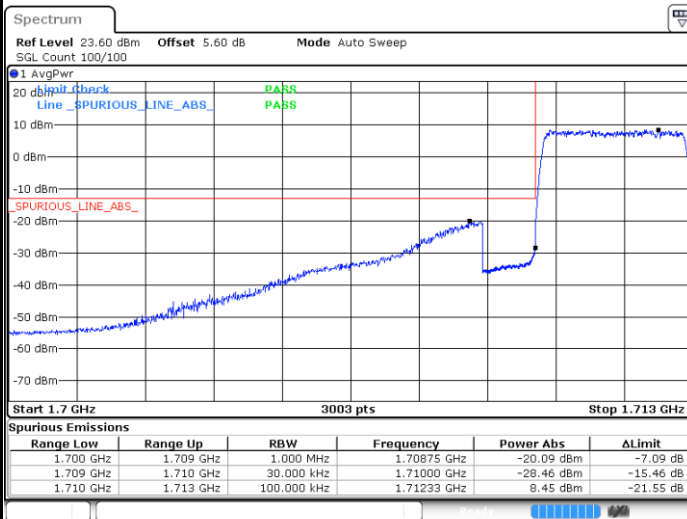
Date: 25 MAY 2021 19:06:16

Highest Band Edge / 1 RB



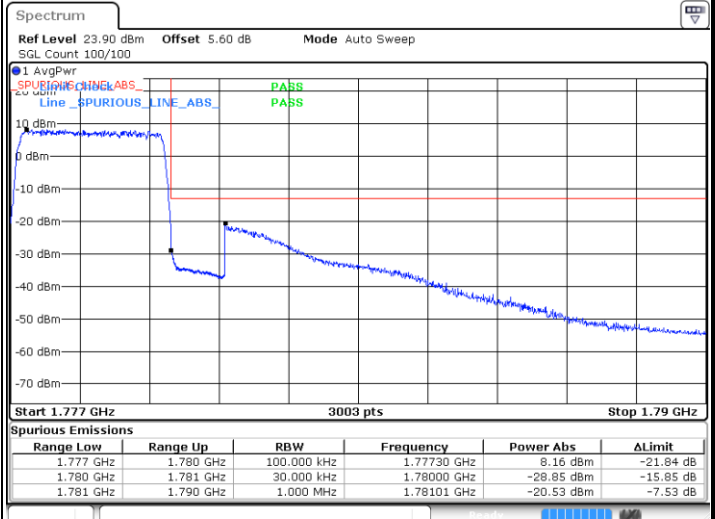
Date: 25 MAY 2021 19:11:50

Lowest Band Edge / Full RB



Date: 25 MAY 2021 19:09:03

Highest Band Edge / Full RB



Date: 25 MAY 2021 19:14:38