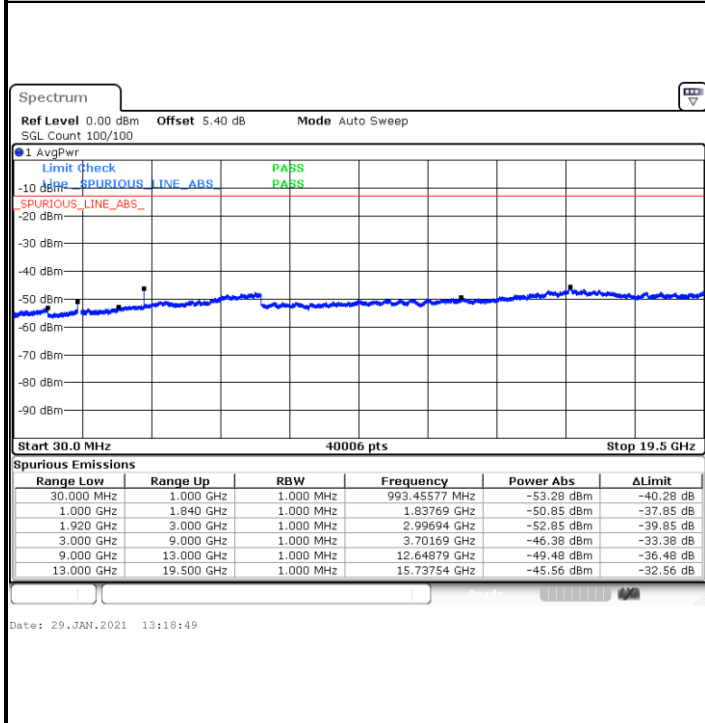


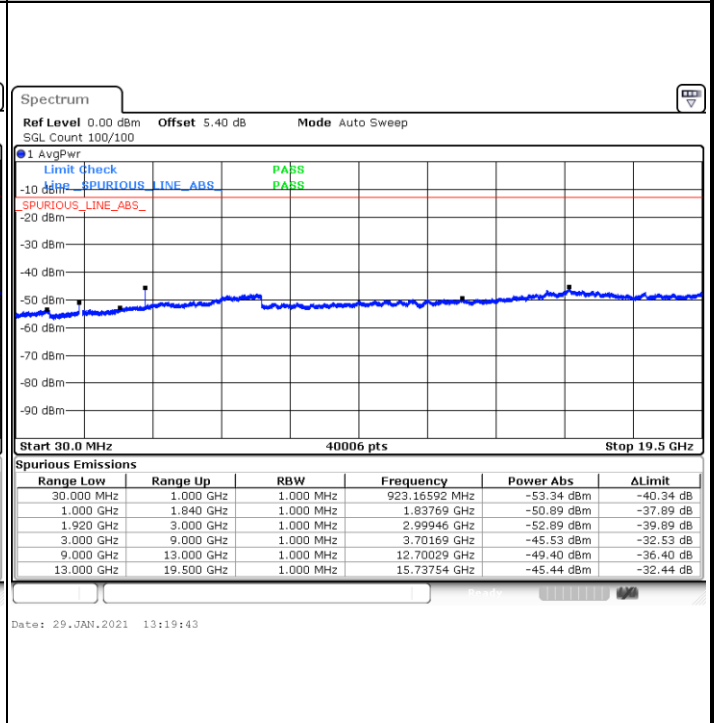


LTE Band 2 / 15MHz

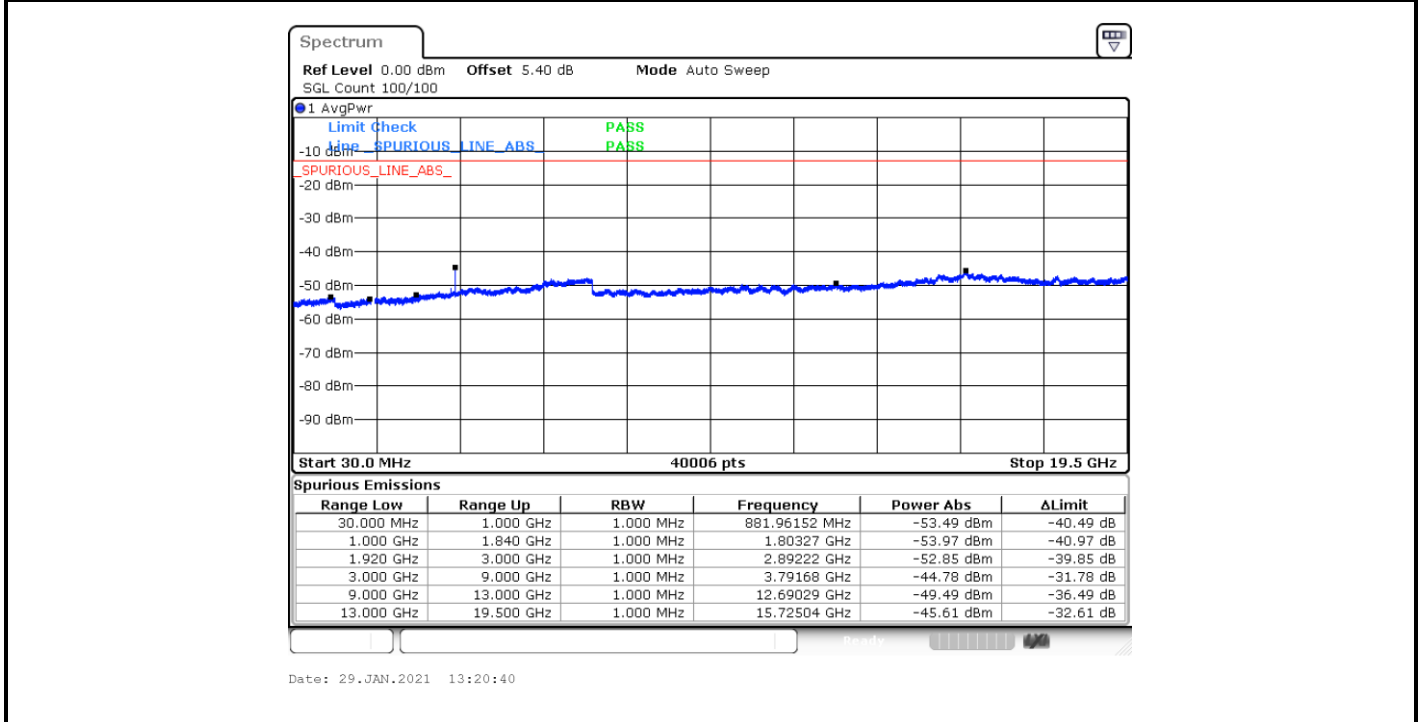
Lowest Channel / QPSK



Middle Channel / QPSK



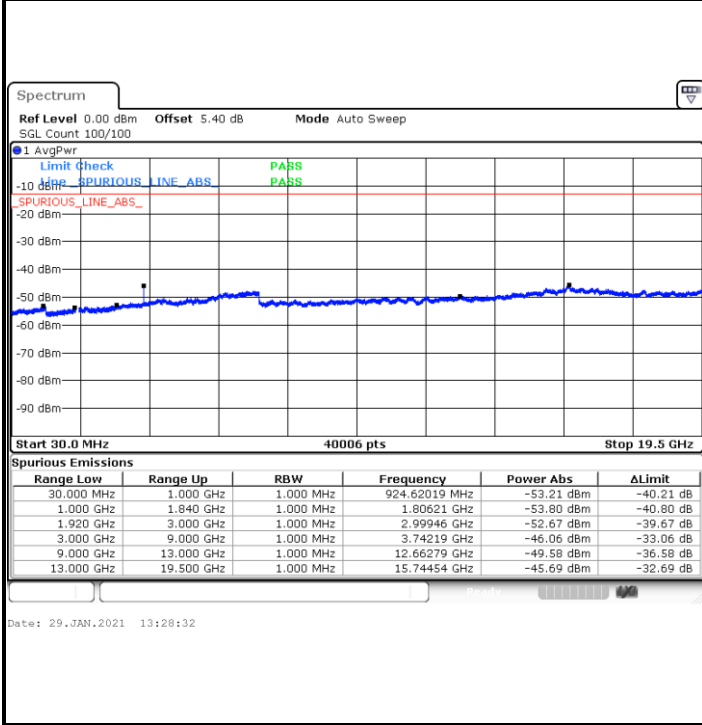
Highest Channel / QPSK



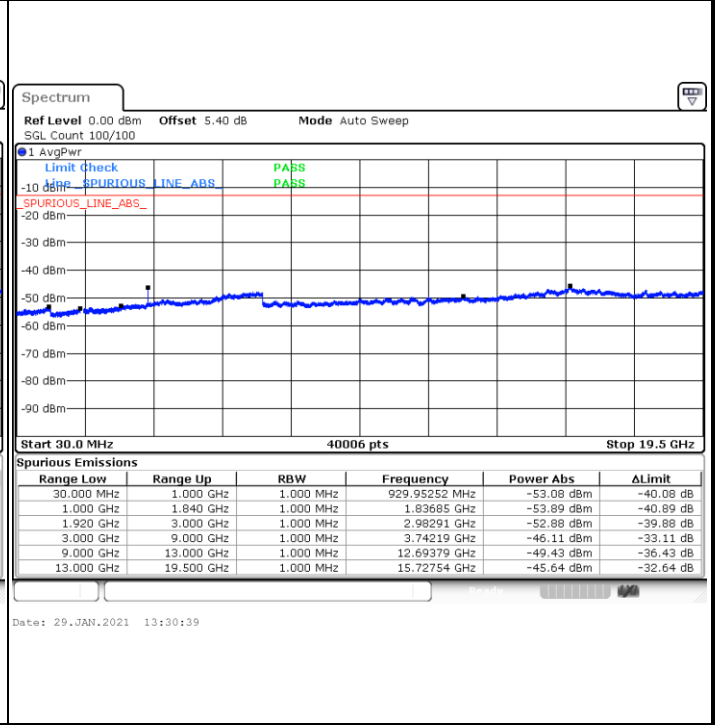


LTE Band 2 / 20MHz

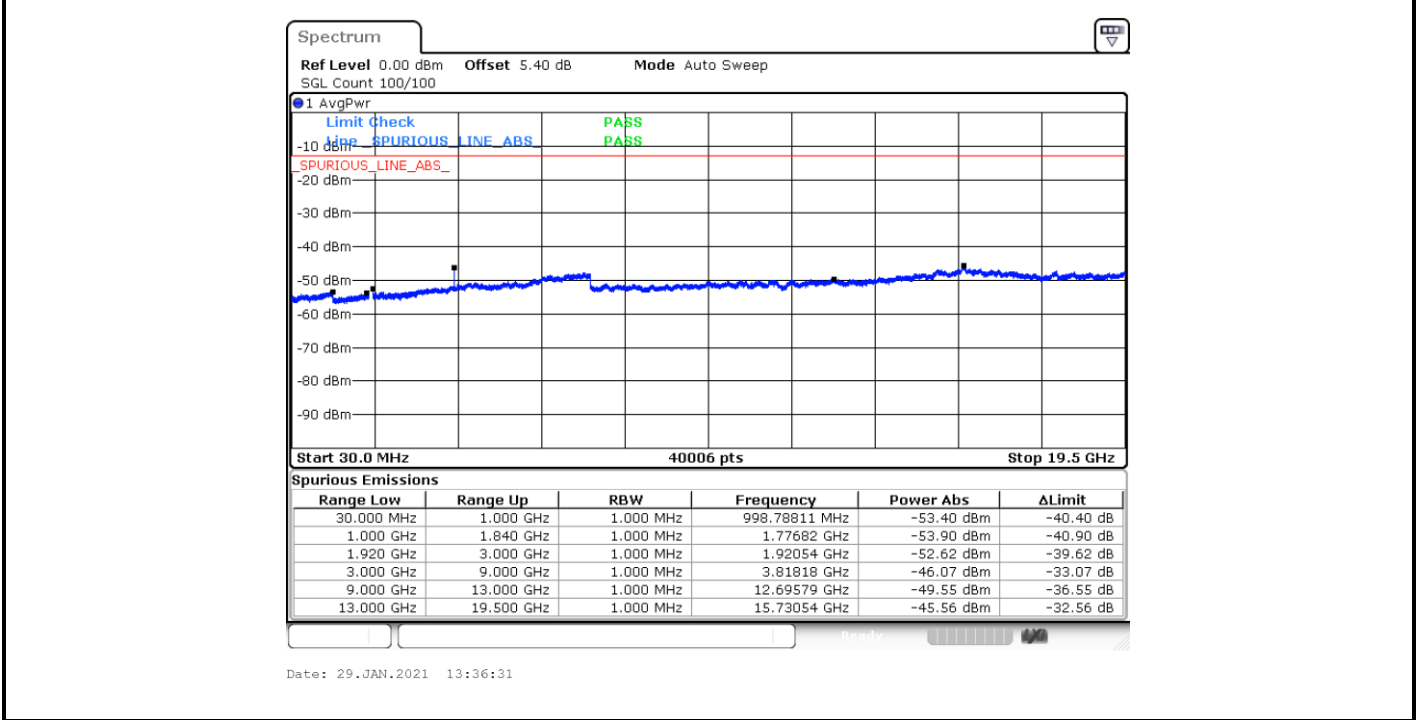
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

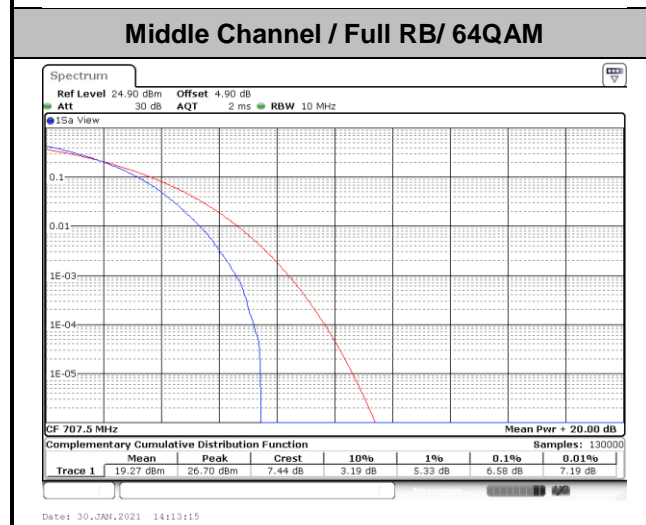
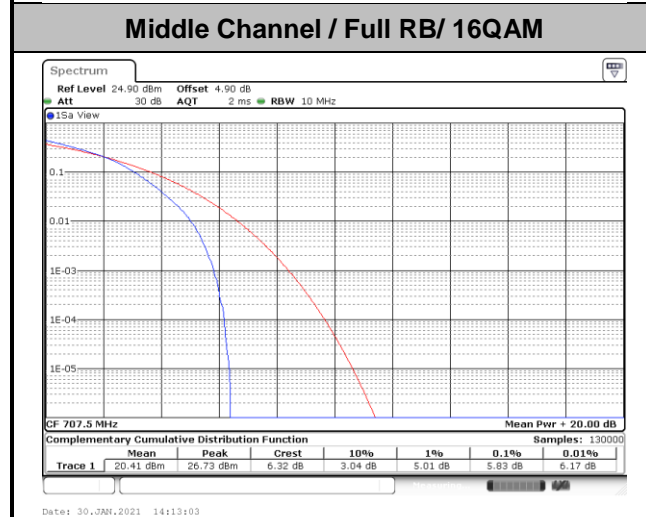
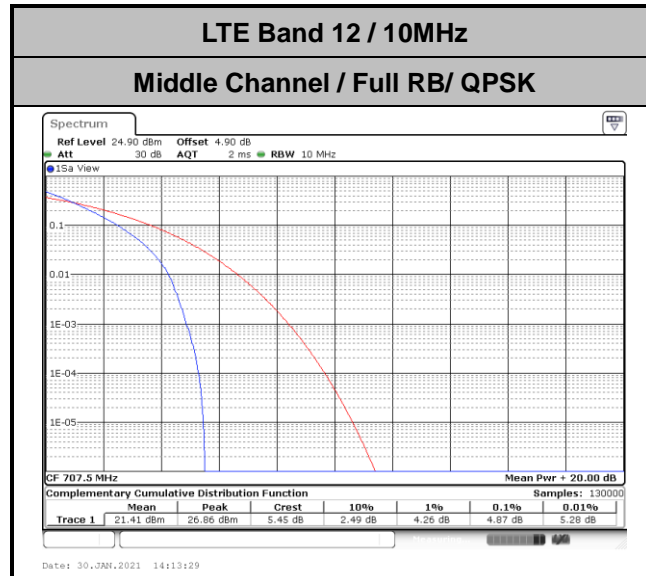
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

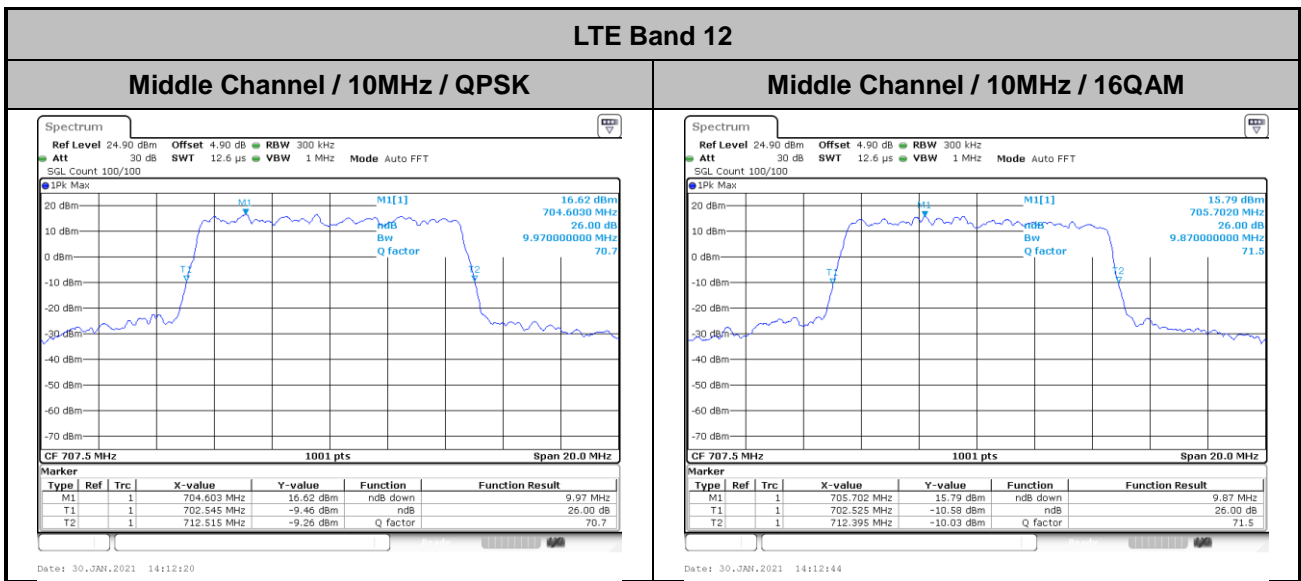
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.87	5.83	6.58	PASS





26dB Bandwidth

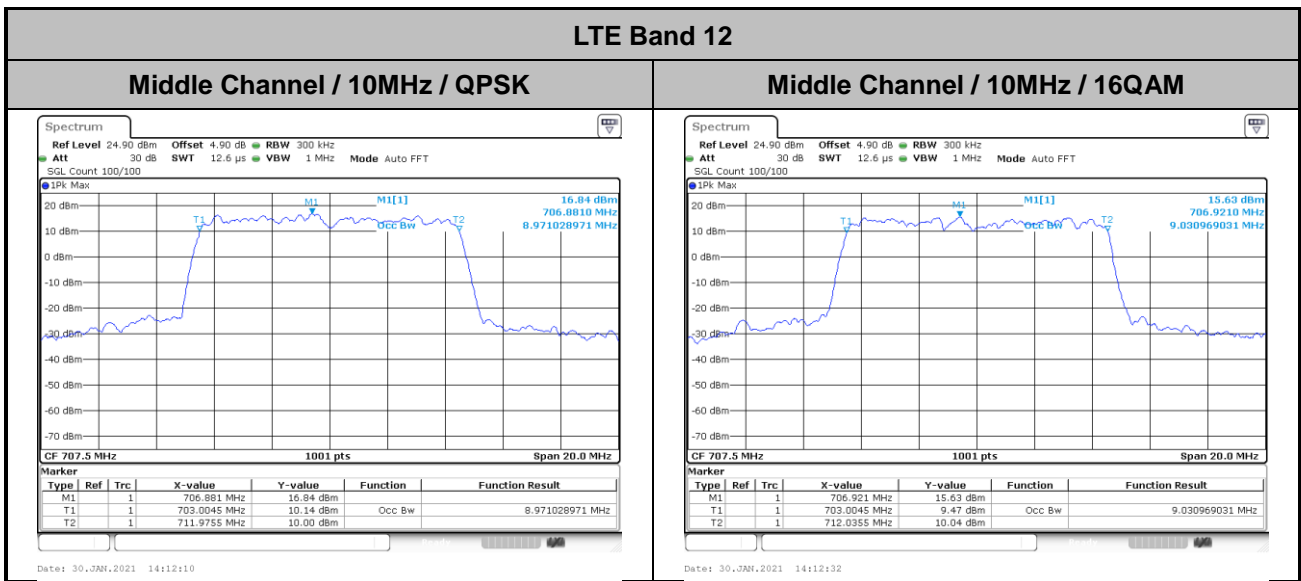
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.97	9.87





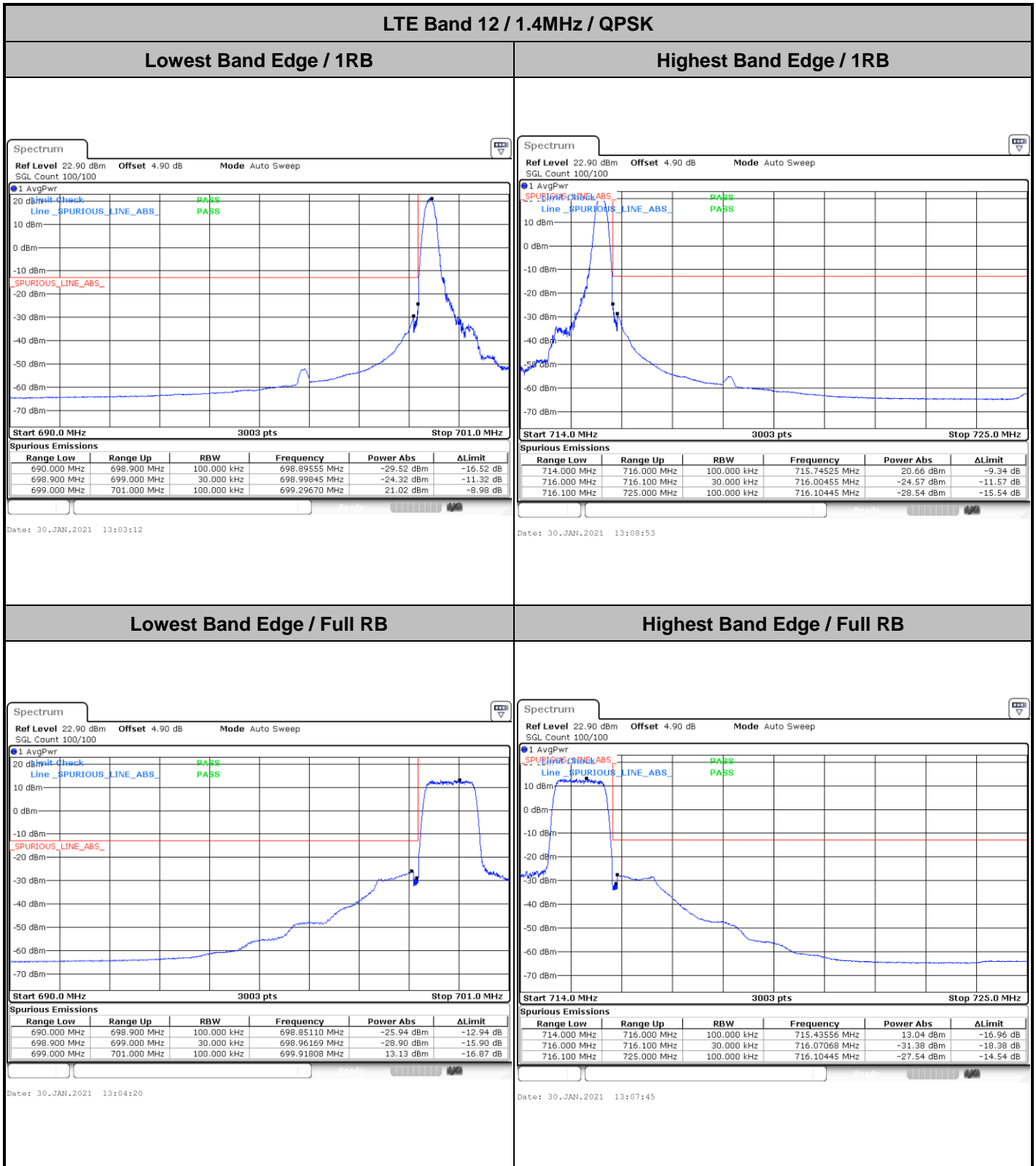
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.97	9.03





Conducted Band Edge





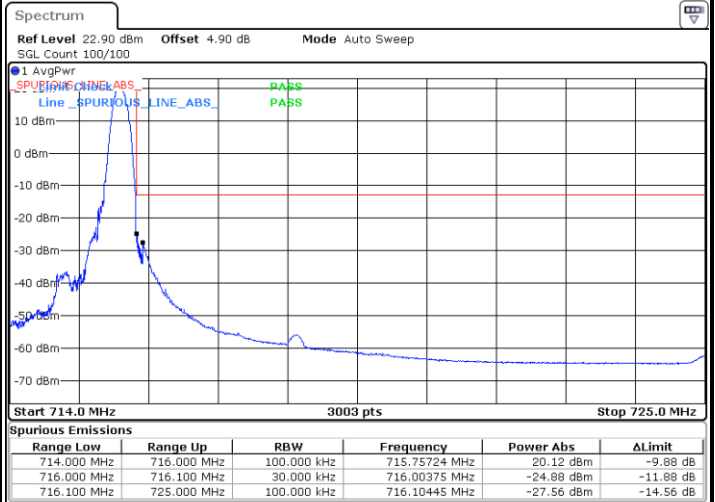
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



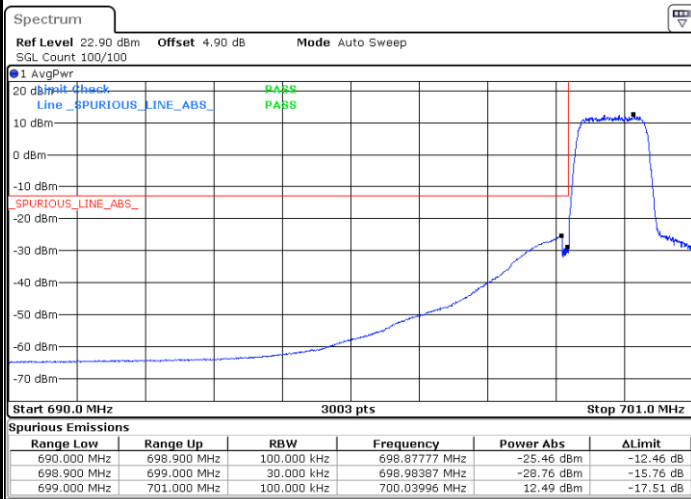
Date: 30.JAN.2021 13:02:04

Highest Band Edge / 1 RB



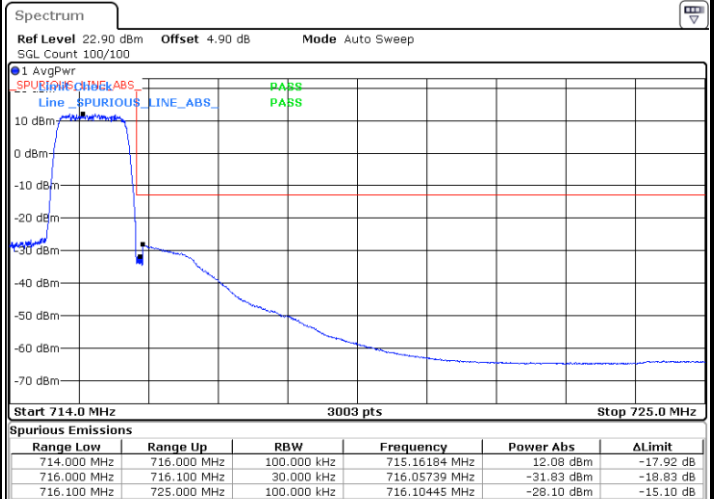
Date: 30.JAN.2021 13:10:01

Lowest Band Edge / Full RB



Date: 30.JAN.2021 13:05:29

Highest Band Edge / Full RB

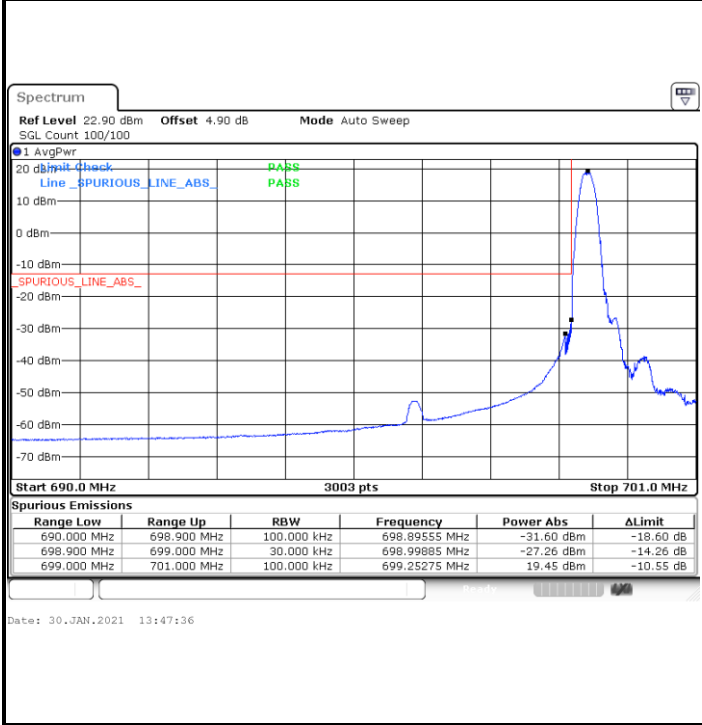


Date: 30.JAN.2021 13:06:37

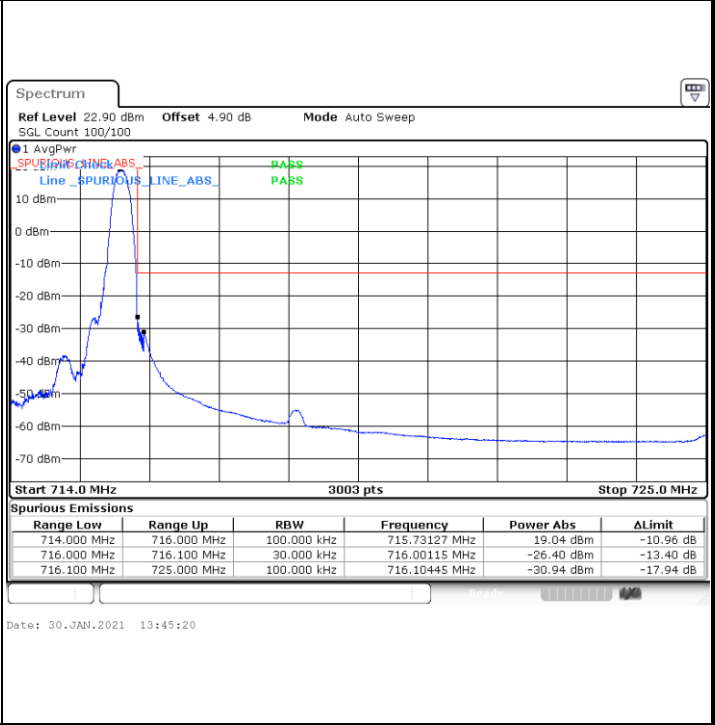


LTE Band 12 / 1.4MHz / 64QAM

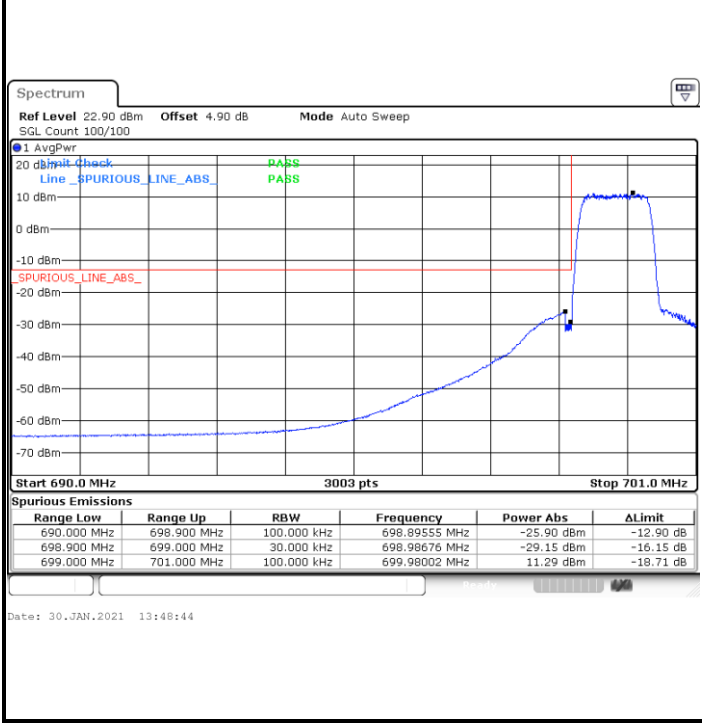
Lowest Band Edge / 1 RB



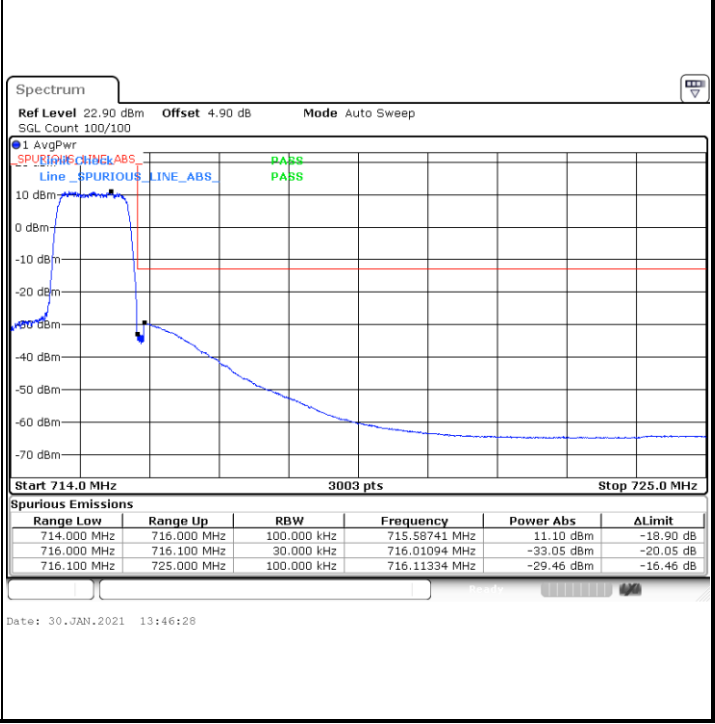
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



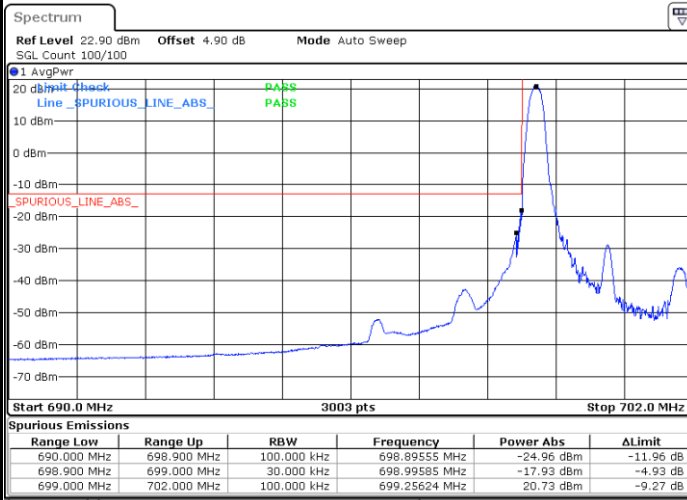
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



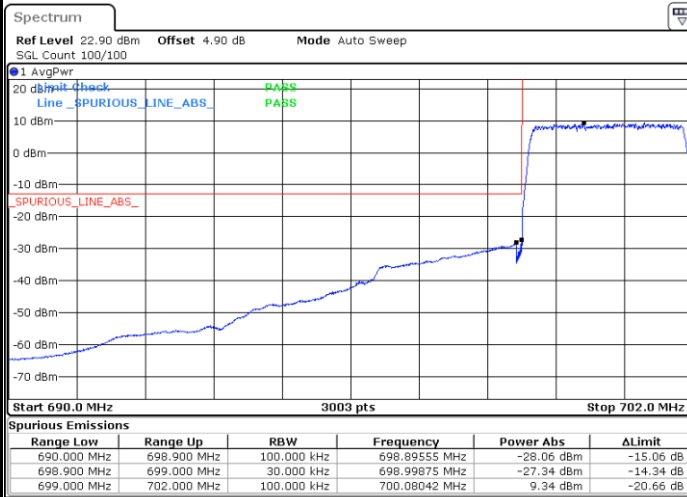
Date: 30.JAN.2021 13:12:17

Highest Band Edge / 1 RB



Date: 30.JAN.2021 13:17:58

Lowest Band Edge / Full RB



Date: 30.JAN.2021 13:13:25

Highest Band Edge / Full RB

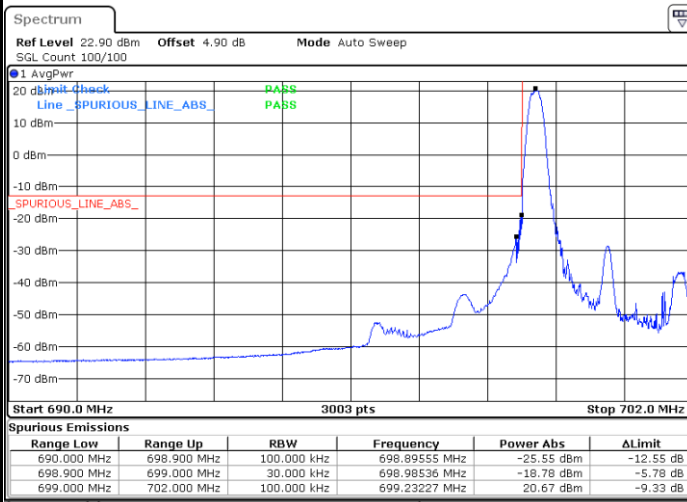


Date: 30.JAN.2021 13:16:50



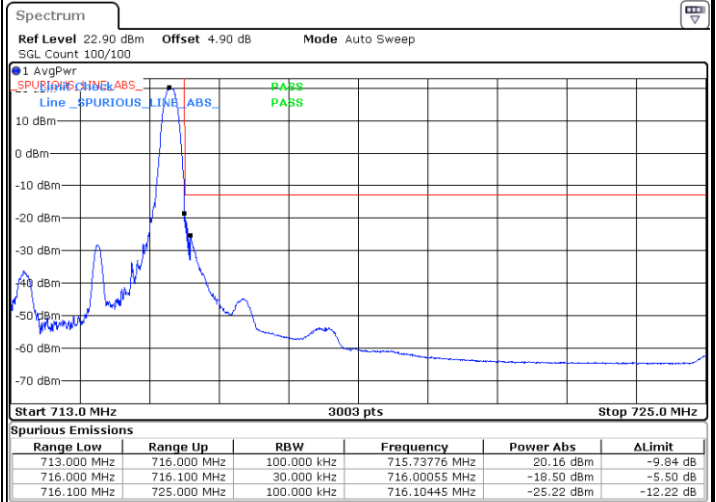
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



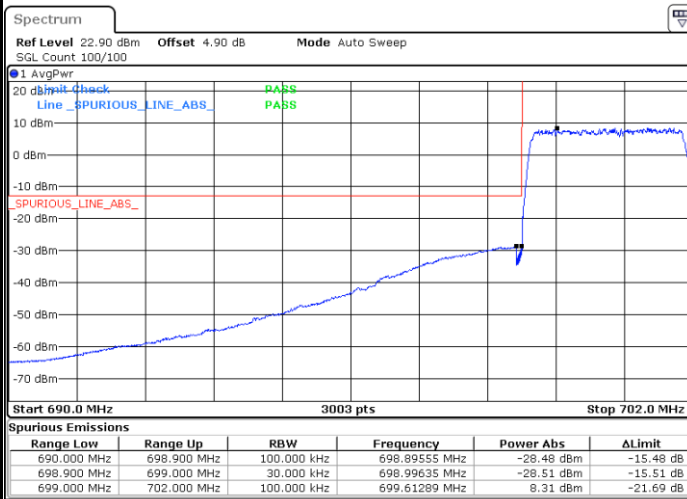
Date: 30.JAN.2021 13:11:09

Highest Band Edge / 1 RB



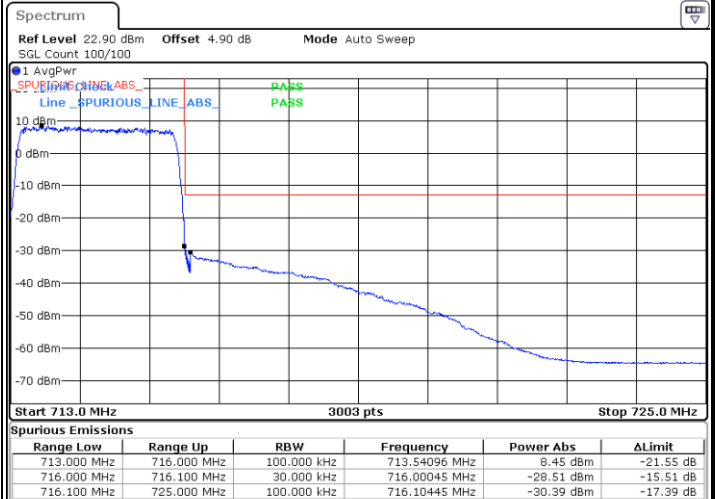
Date: 30.JAN.2021 13:19:06

Lowest Band Edge / Full RB



Date: 30.JAN.2021 13:14:33

Highest Band Edge / Full RB

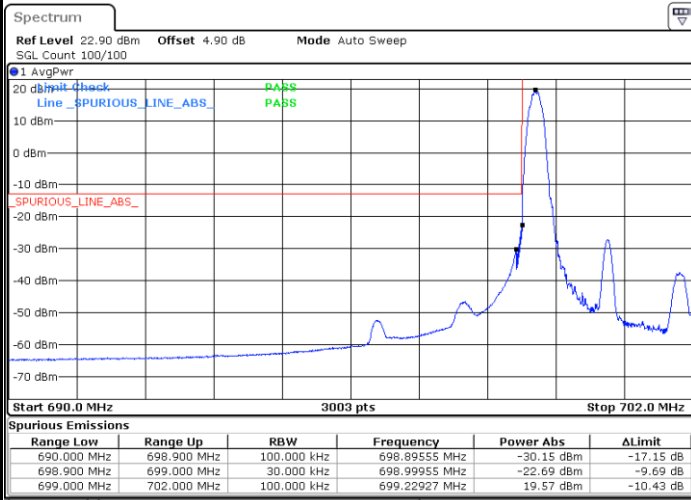


Date: 30.JAN.2021 13:15:41



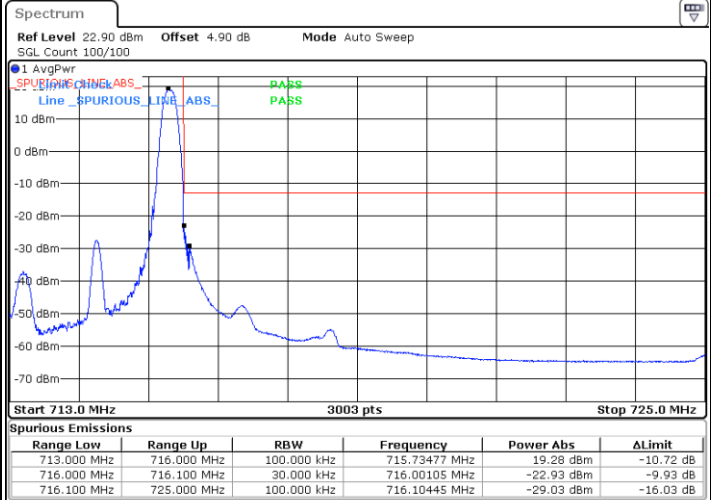
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



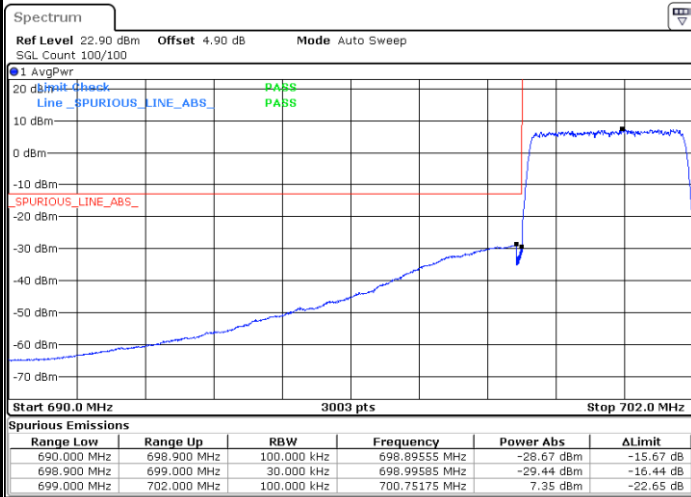
Date: 30.JAN.2021 13:49:52

Highest Band Edge / 1 RB



Date: 30.JAN.2021 13:53:15

Lowest Band Edge / Full RB



Date: 30.JAN.2021 13:50:59

Highest Band Edge / Full RB

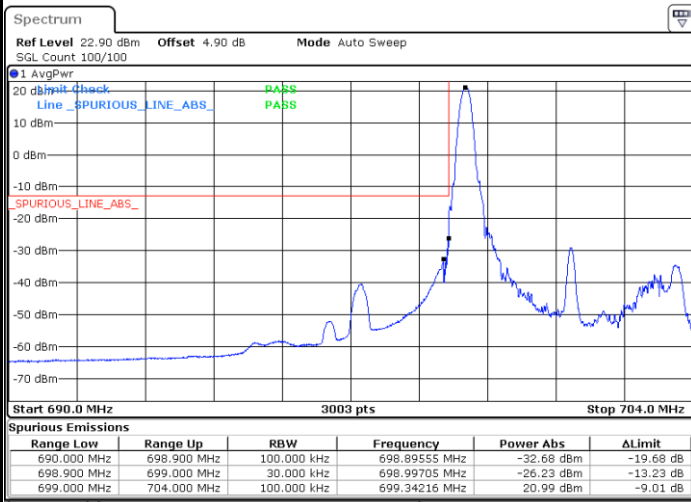


Date: 30.JAN.2021 13:52:07



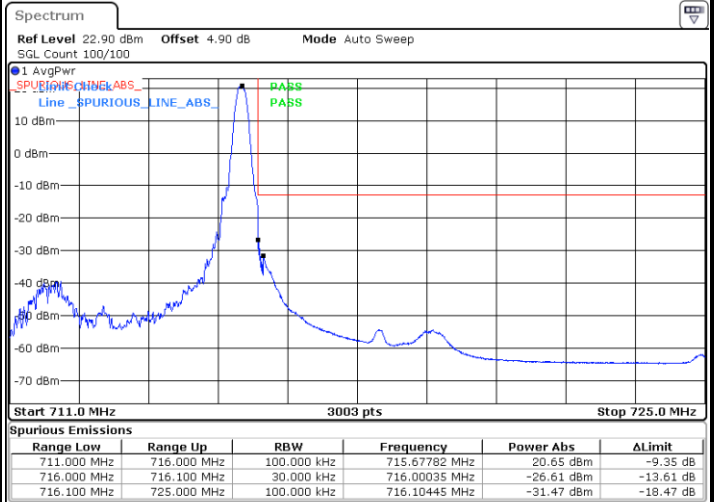
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



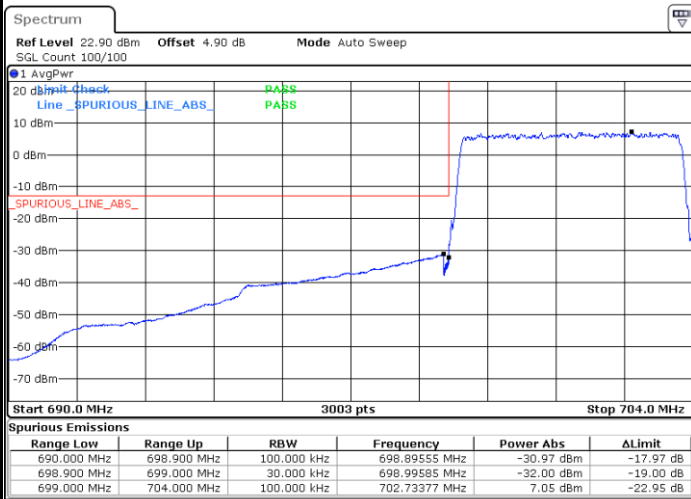
Date: 30.JAN.2021 13:21:22

Highest Band Edge / 1 RB



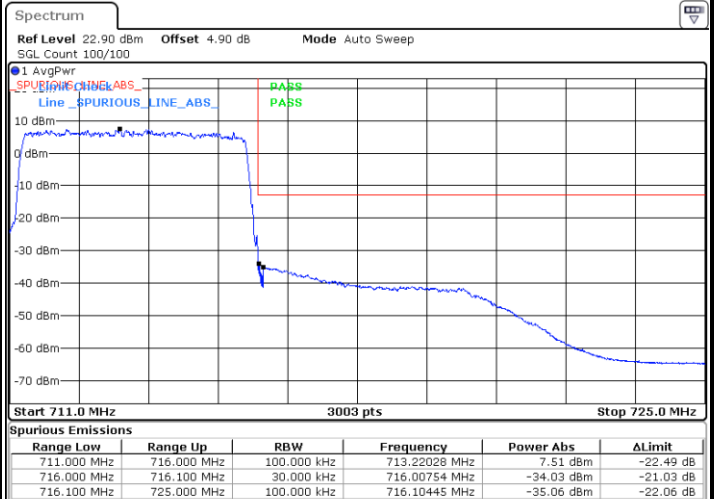
Date: 30.JAN.2021 13:27:54

Lowest Band Edge / Full RB



Date: 30.JAN.2021 13:22:30

Highest Band Edge / Full RB

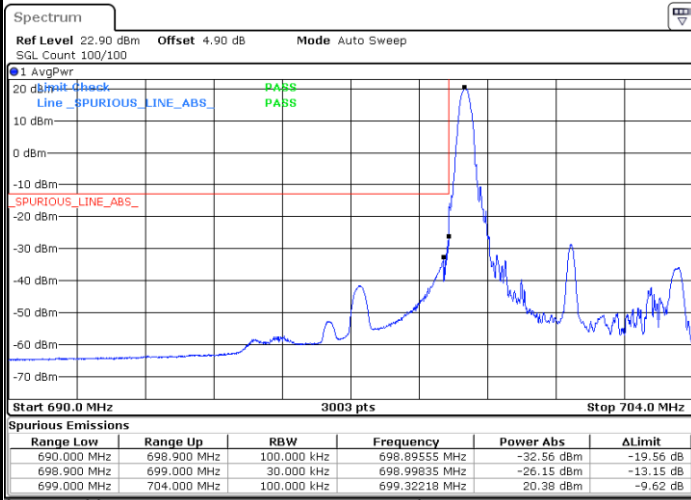


Date: 30.JAN.2021 13:26:46



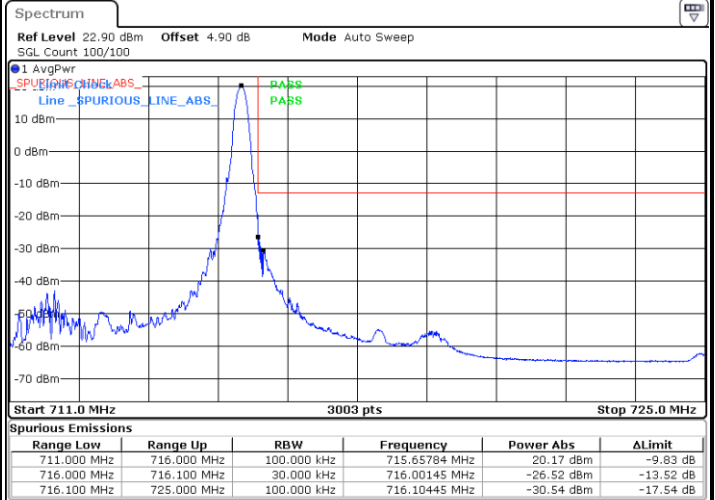
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



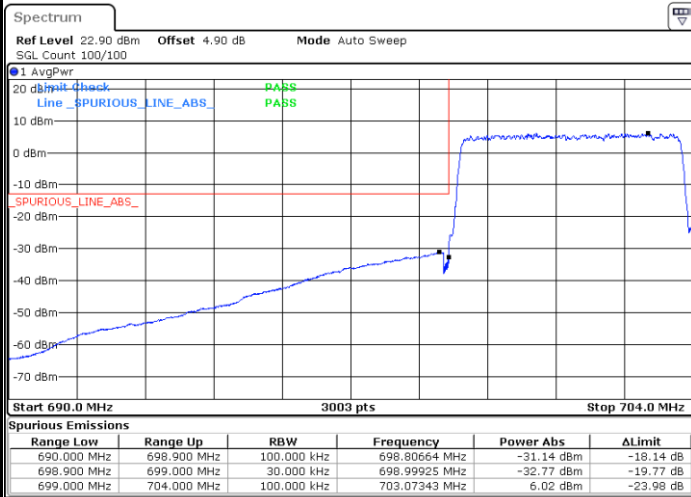
Date: 30.JAN.2021 13:20:14

Highest Band Edge / 1 RB



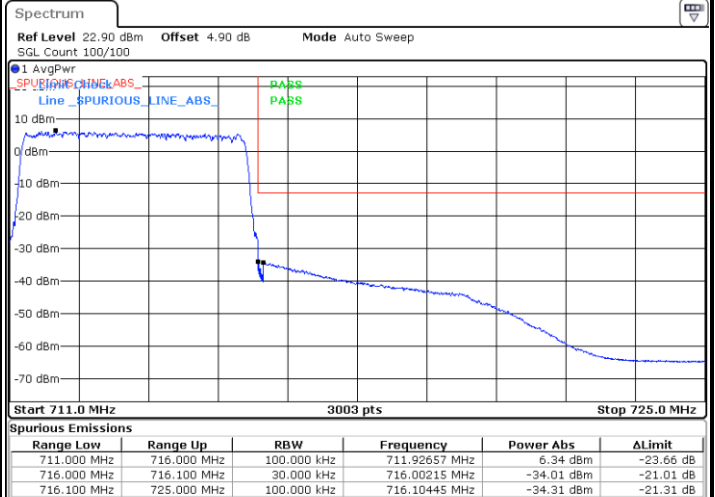
Date: 30.JAN.2021 13:29:02

Lowest Band Edge / Full RB



Date: 30.JAN.2021 13:24:30

Highest Band Edge / Full RB

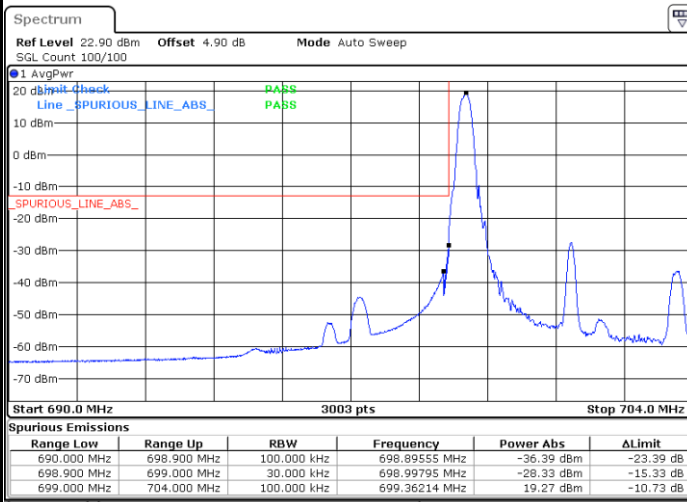


Date: 30.JAN.2021 13:25:38



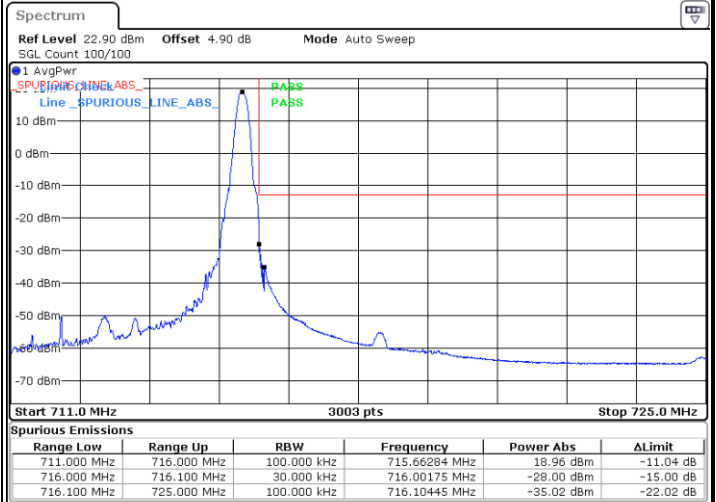
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



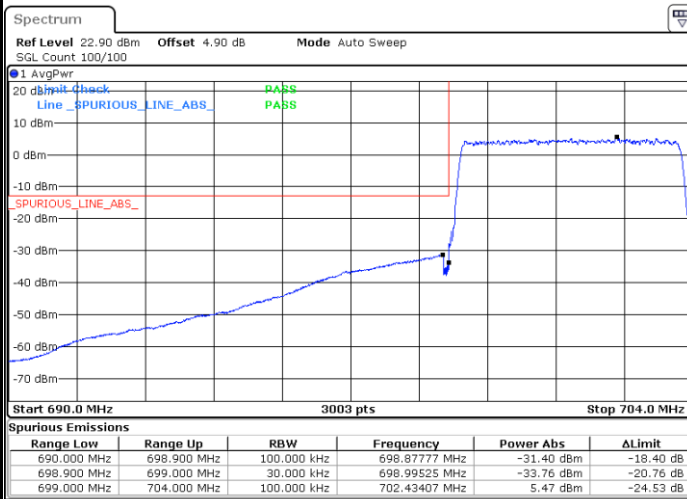
Date: 30.JAN.2021 13:56:39

Highest Band Edge / 1 RB



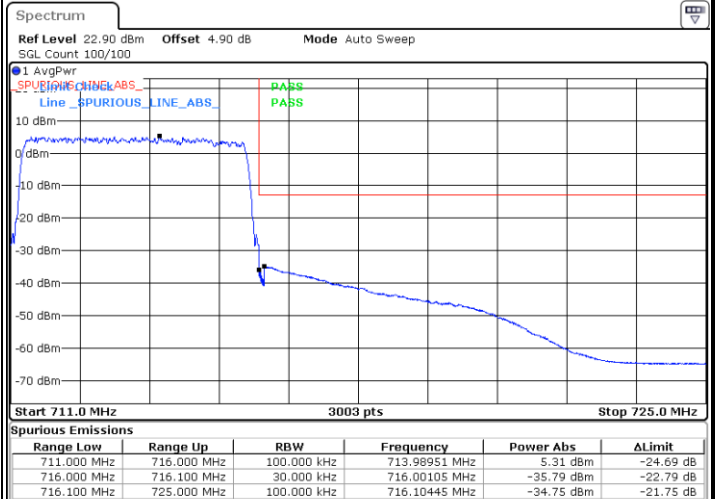
Date: 30.JAN.2021 13:55:31

Lowest Band Edge / Full RB



Date: 30.JAN.2021 13:57:47

Highest Band Edge / Full RB

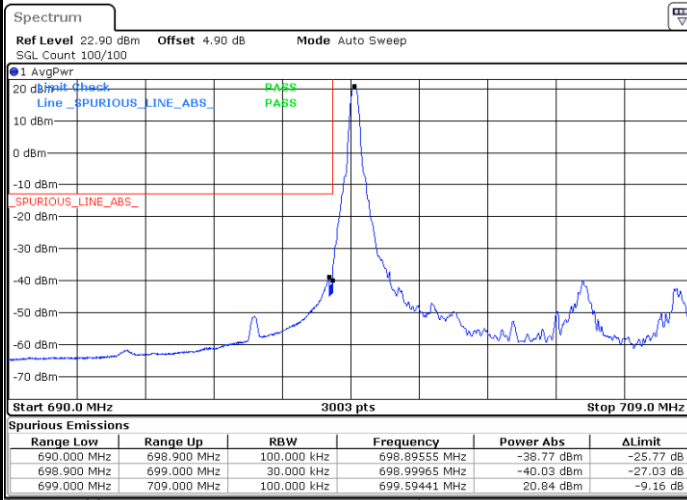


Date: 30.JAN.2021 13:54:23

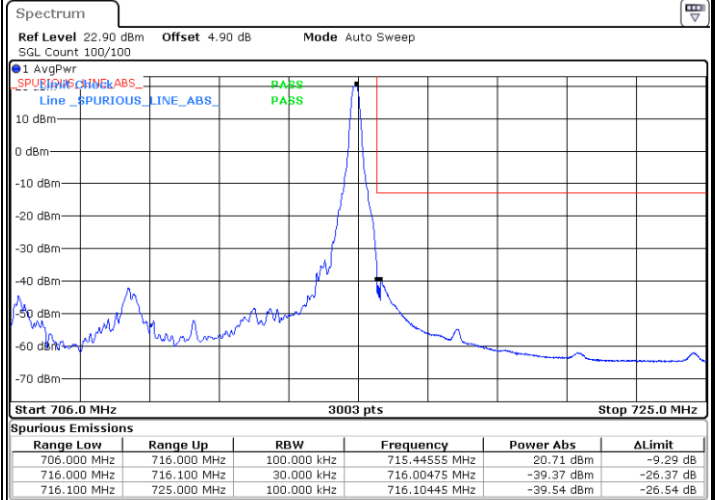


LTE Band 12 / 10MHz / QPSK

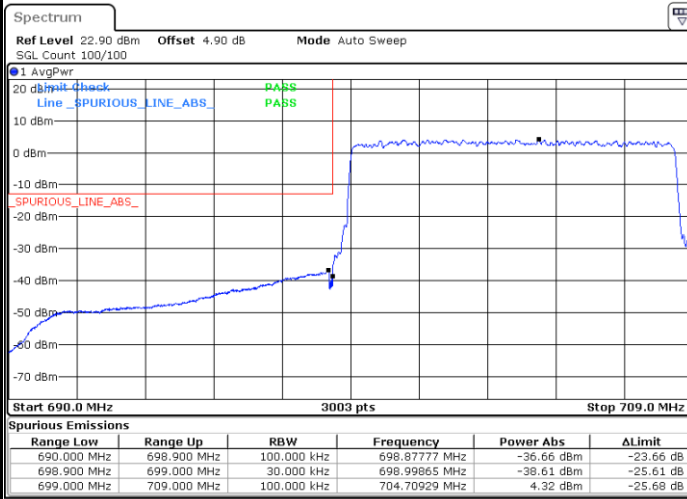
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



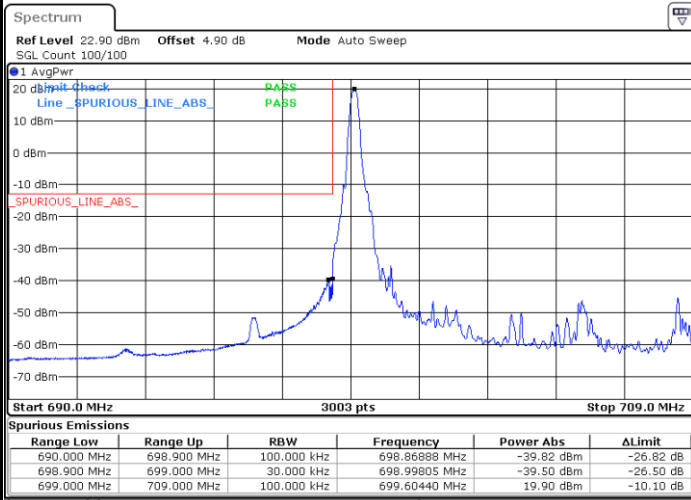
Highest Band Edge / Full RB





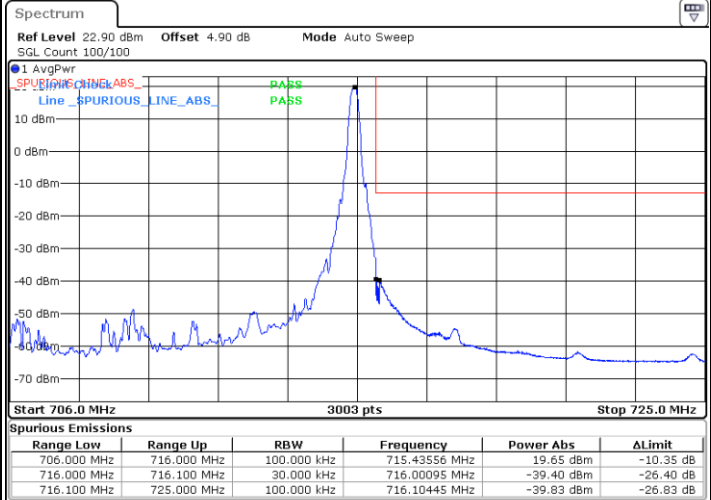
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



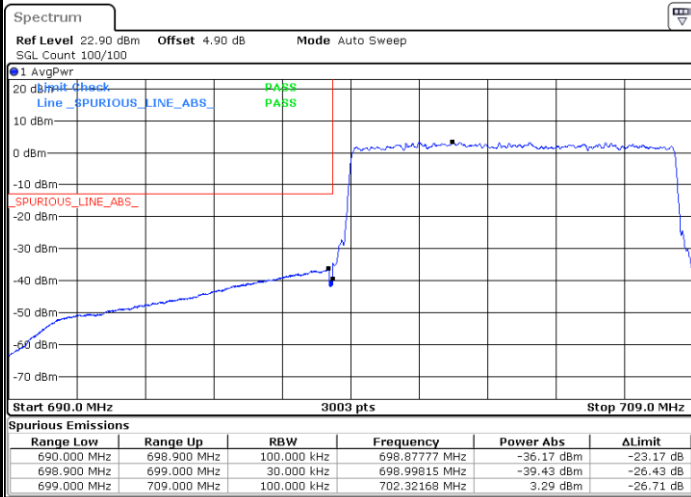
Date: 30.JAN.2021 13:31:02

Highest Band Edge / 1 RB



Date: 30.JAN.2021 13:43:37

Lowest Band Edge / Full RB



Date: 30.JAN.2021 13:34:26

Highest Band Edge / Full RB

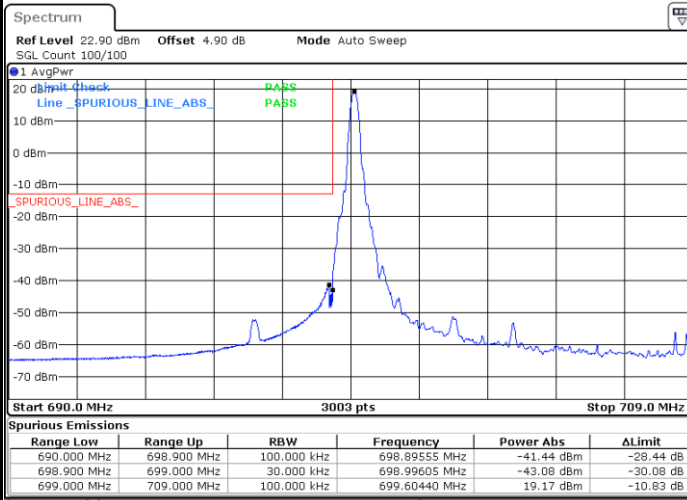


Date: 30.JAN.2021 13:35:34



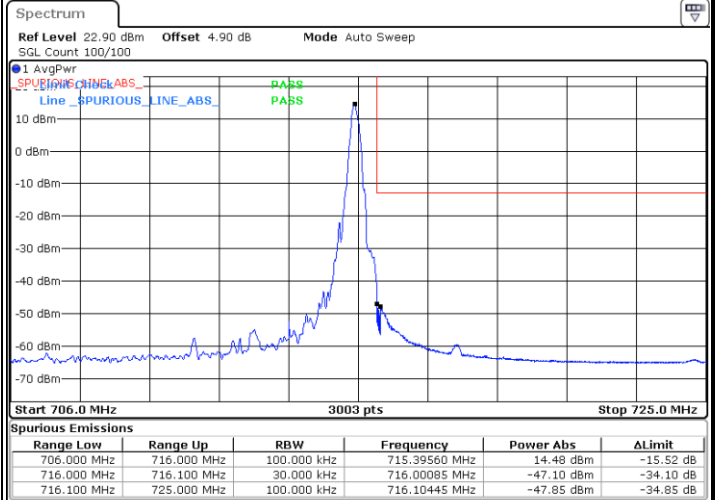
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



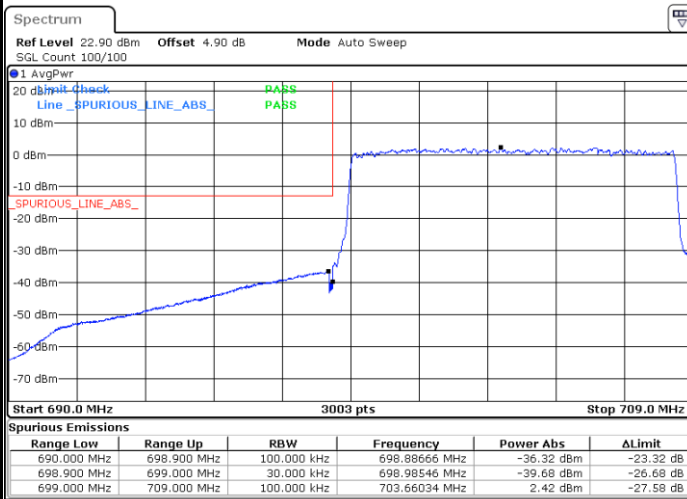
Date: 30.JAN.2021 14:02:18

Highest Band Edge / 1 RB



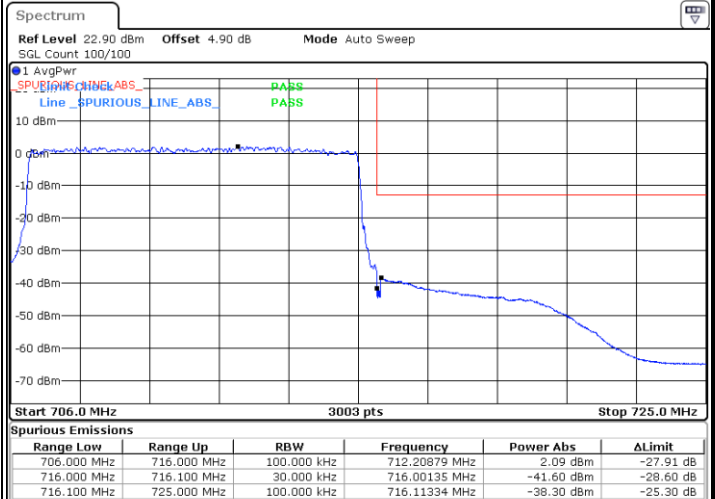
Date: 30.JAN.2021 14:00:03

Lowest Band Edge / Full RB



Date: 30.JAN.2021 14:03:26

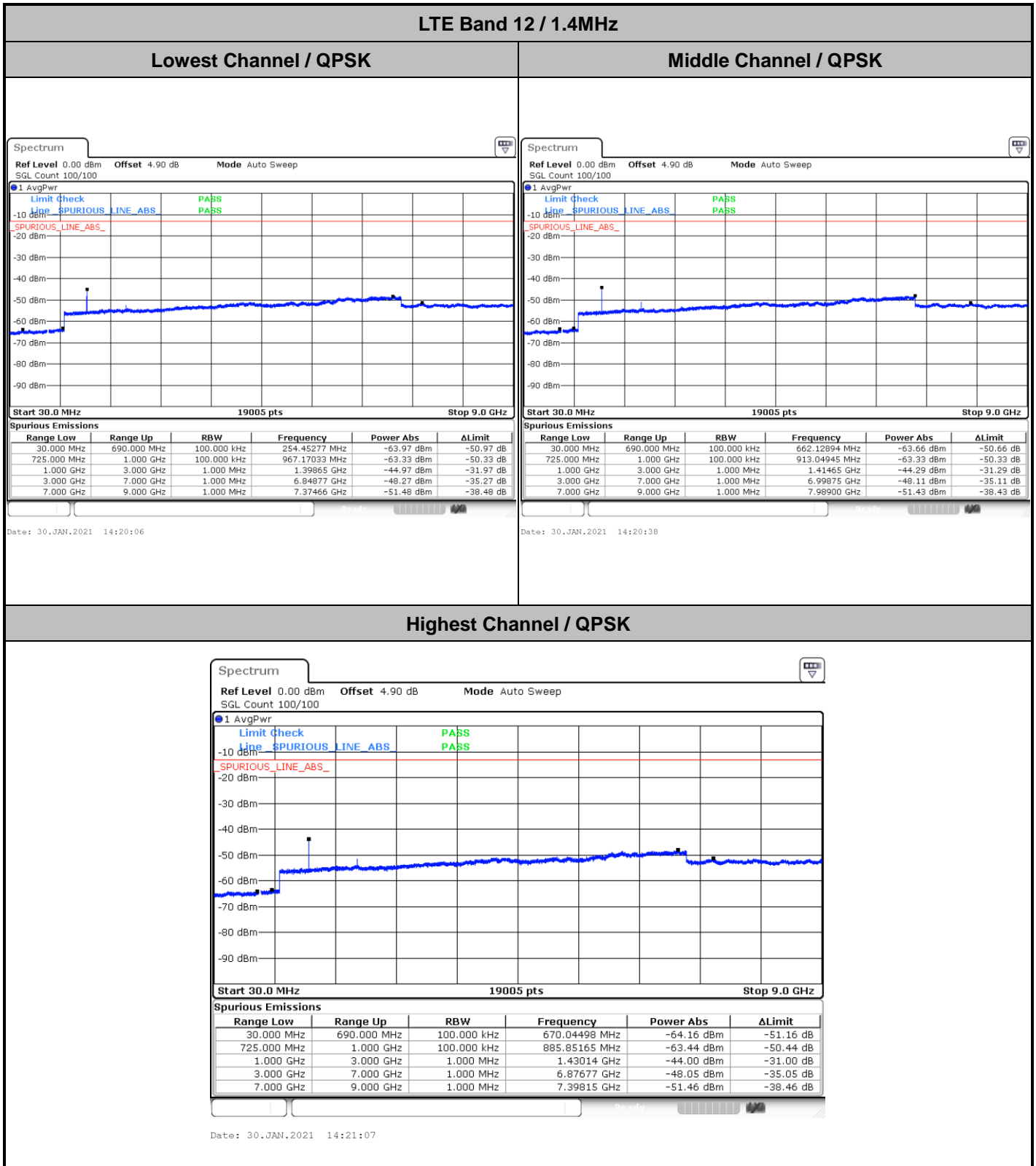
Highest Band Edge / Full RB



Date: 30.JAN.2021 13:58:55



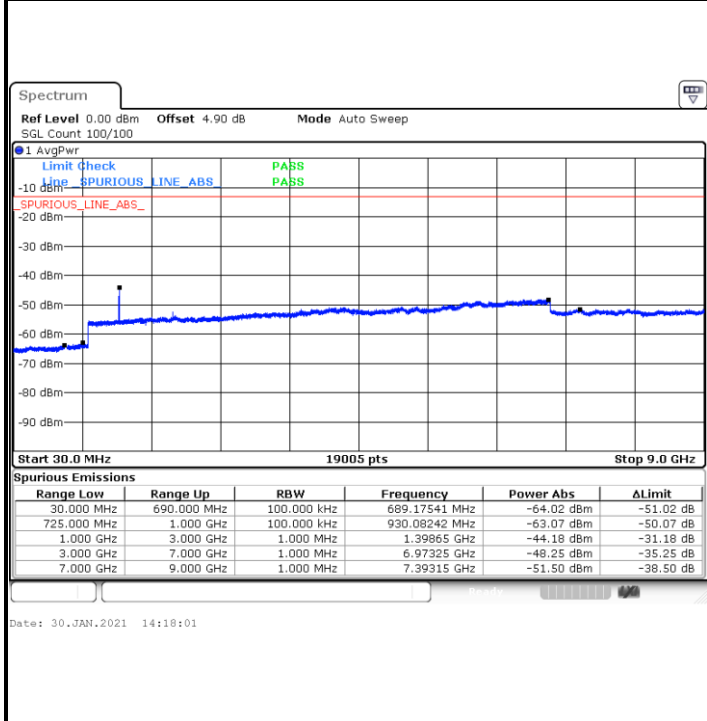
Conducted Spurious Emission



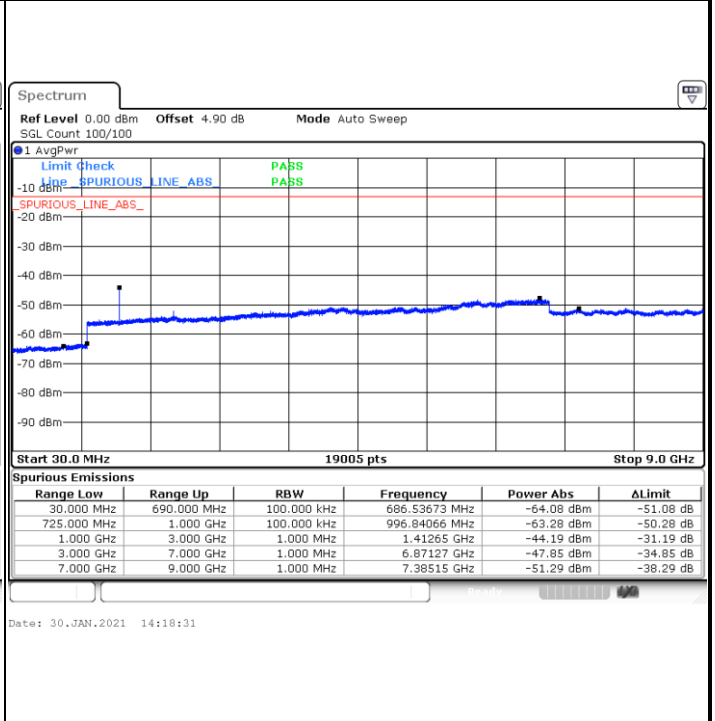


LTE Band 12 / 3MHz

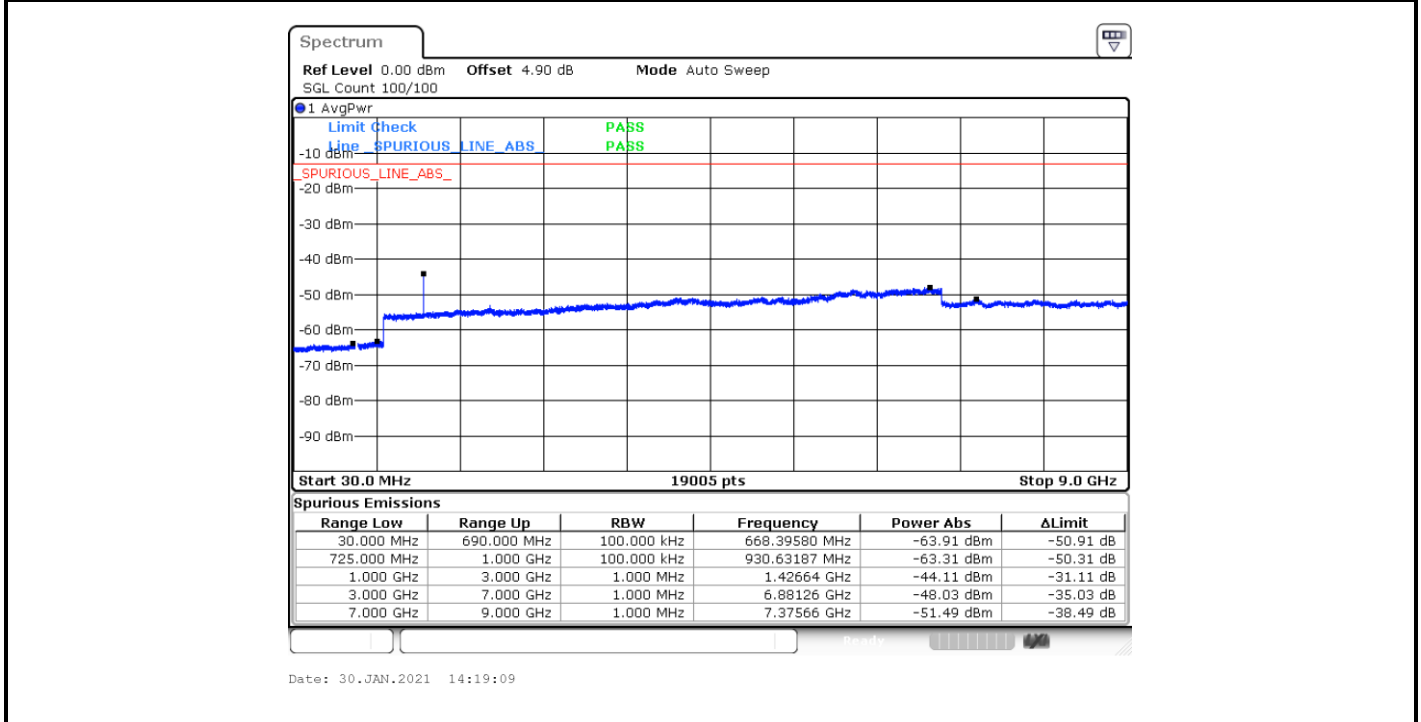
Lowest Channel / QPSK



Middle Channel / QPSK



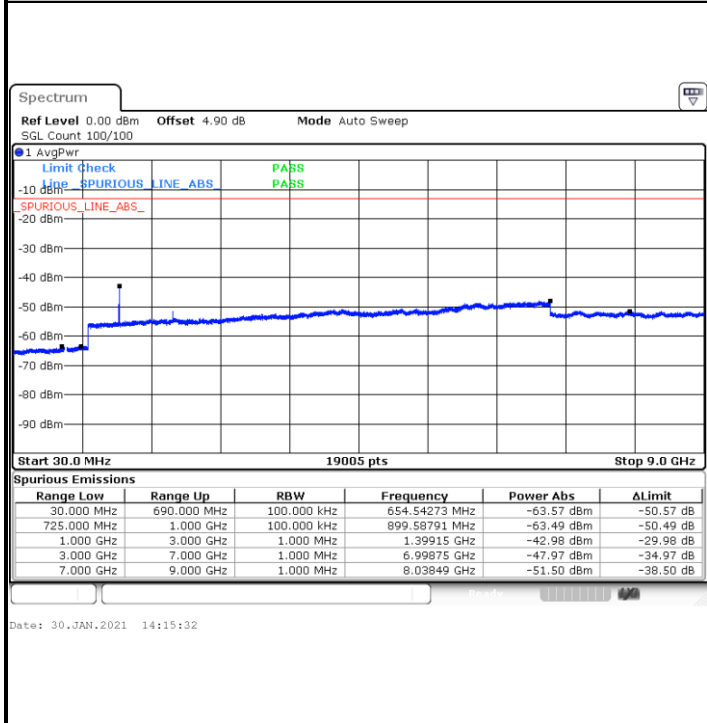
Highest Channel / QPSK



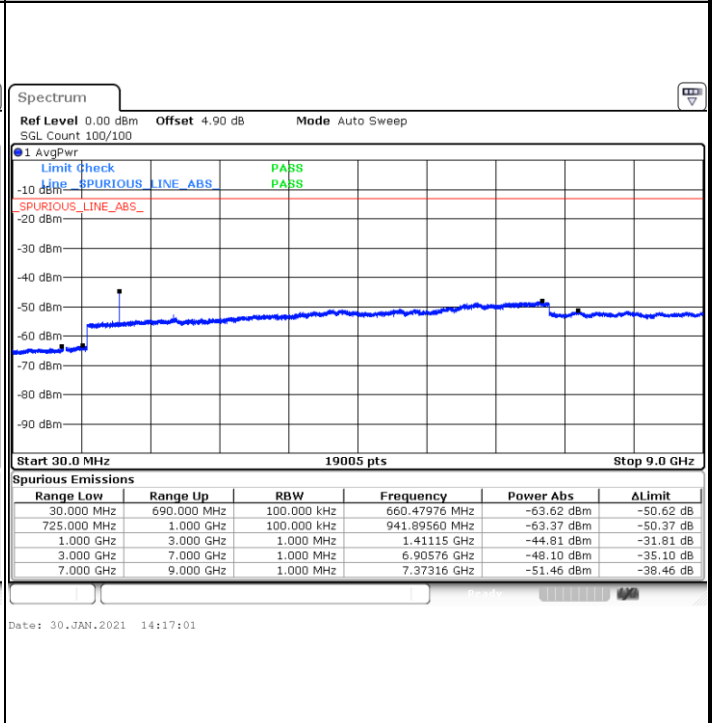


LTE Band 12 / 5MHz

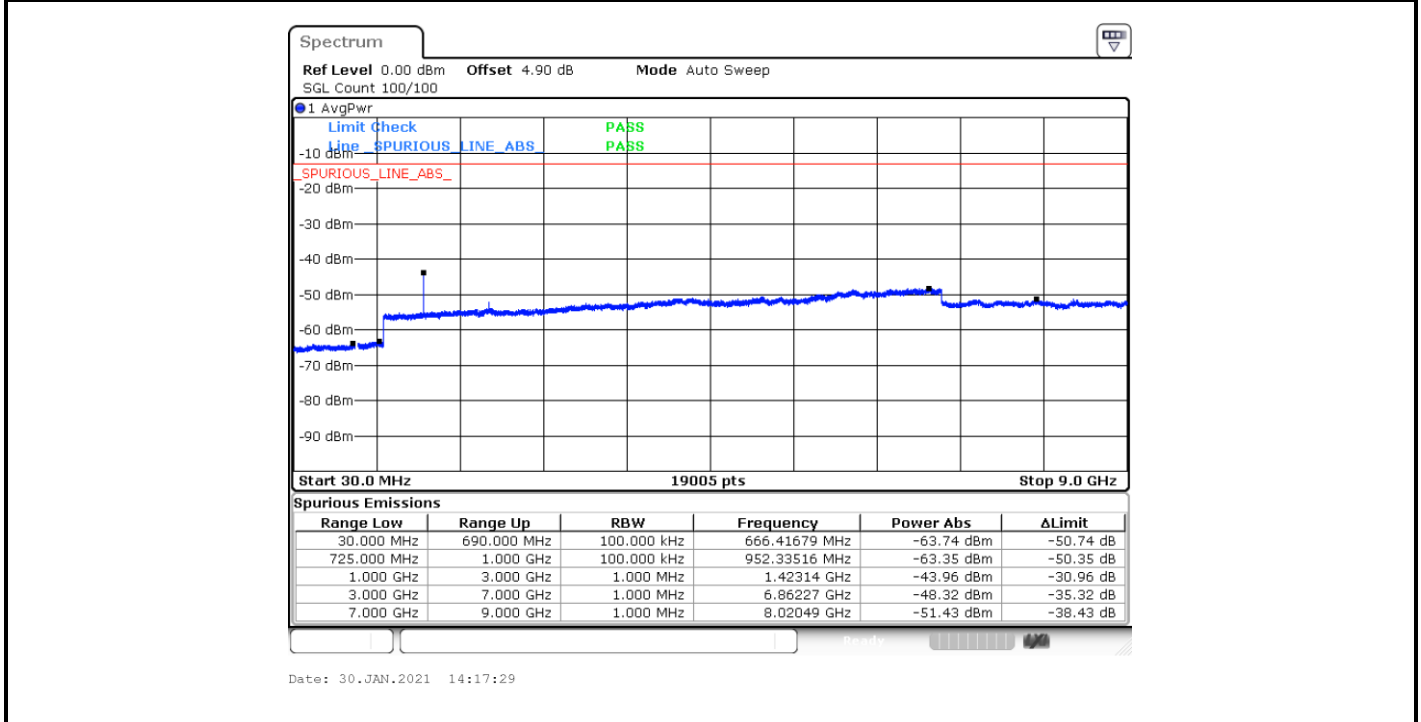
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

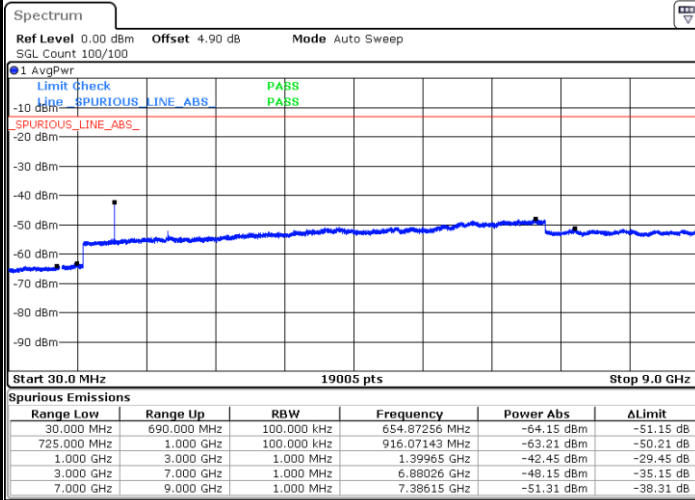




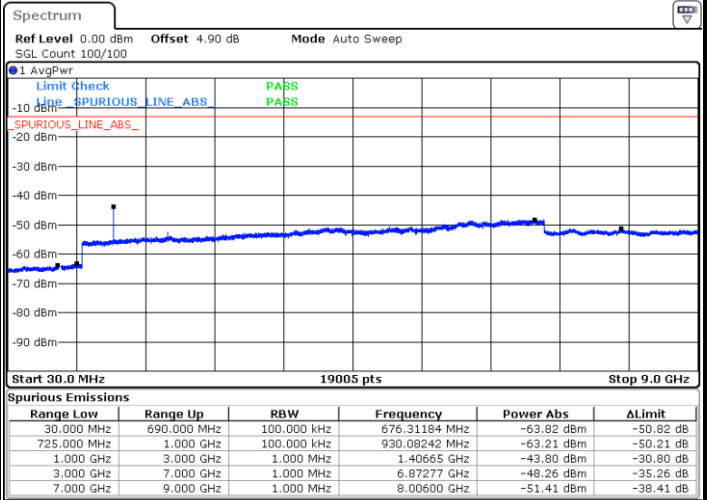
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

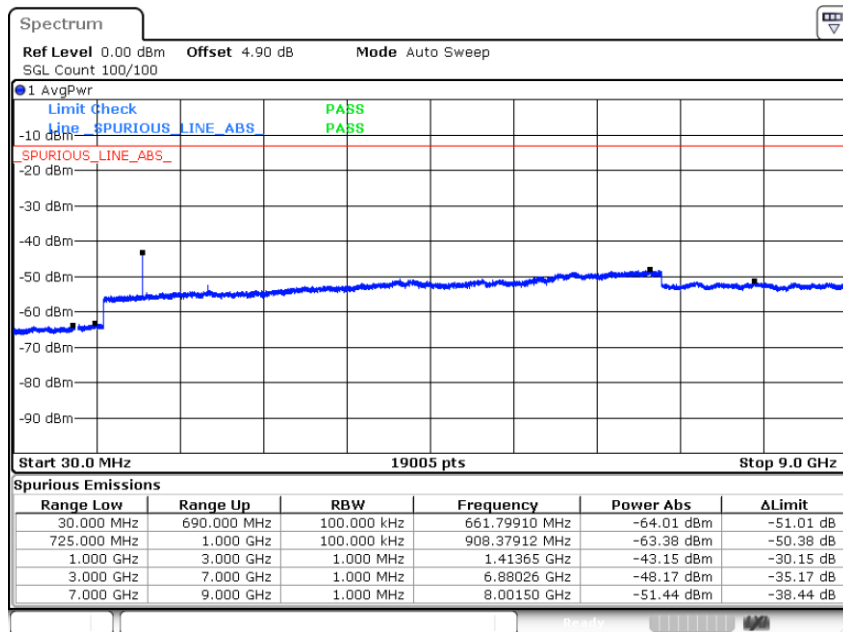


Date: 30.JAN.2021 14:11:10



Date: 30.JAN.2021 14:10:34

Highest Channel / QPSK



Date: 30.JAN.2021 14:10:02



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	0.0008	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0102	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0039	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

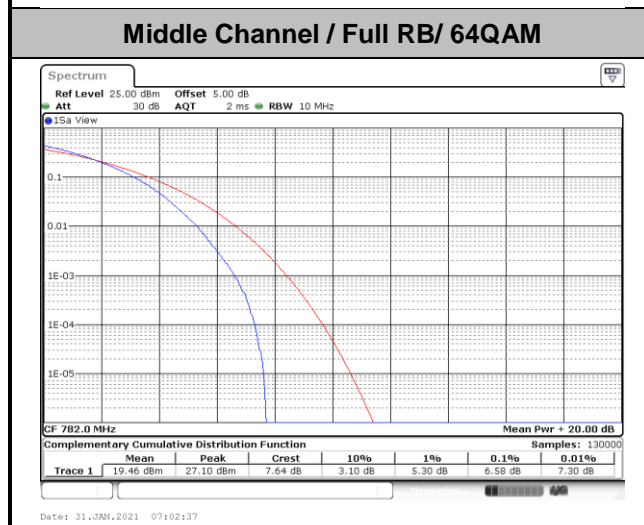
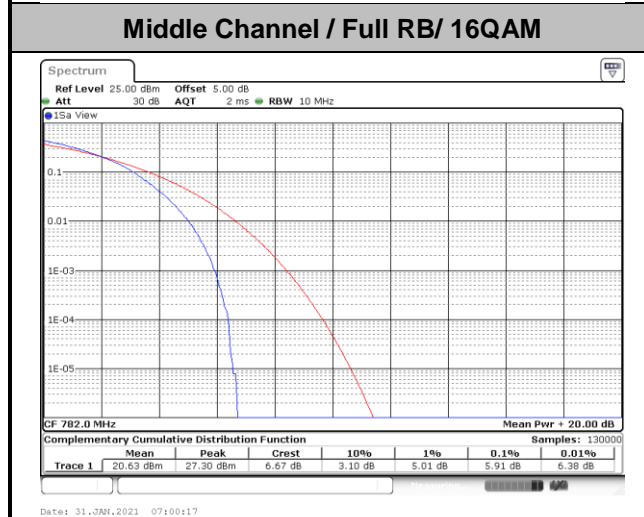
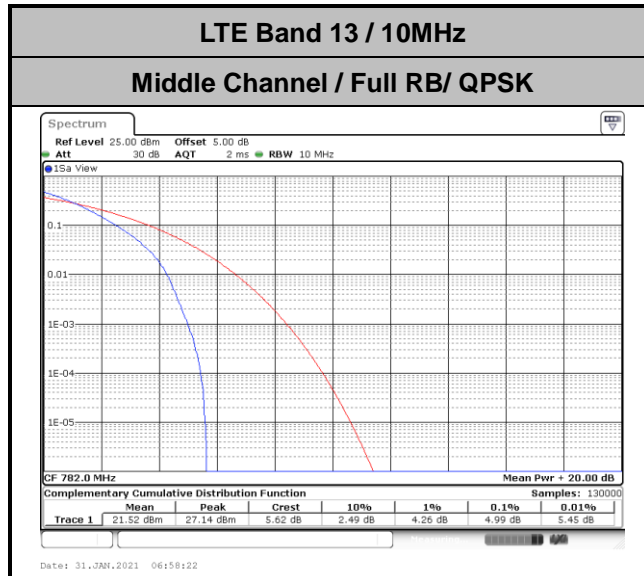
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

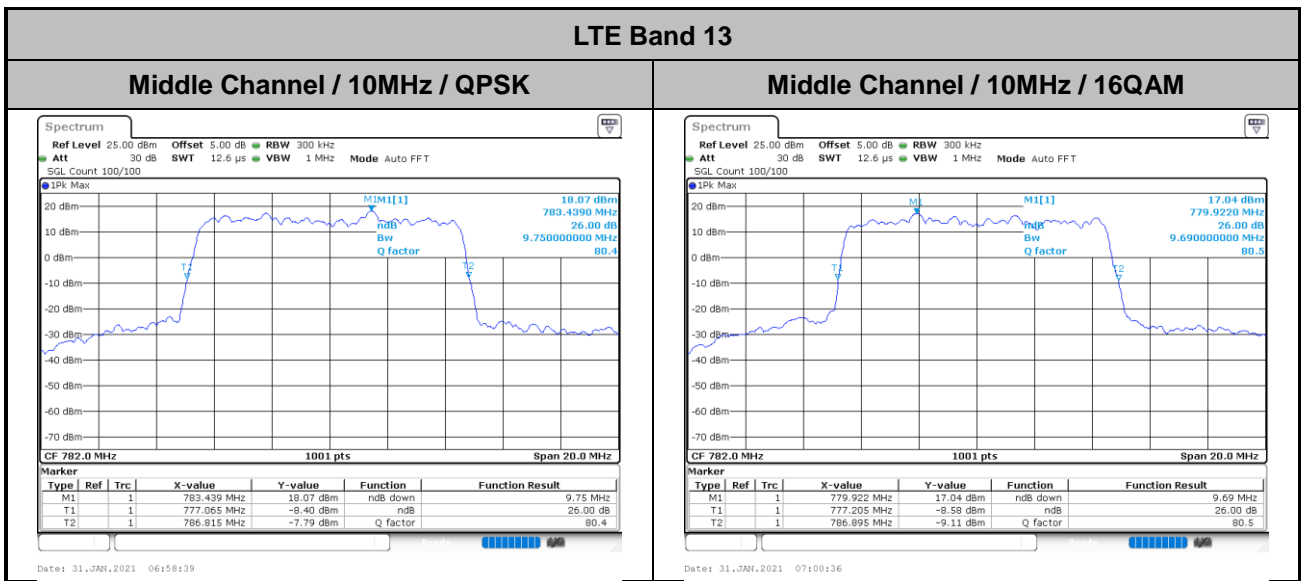
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.99	5.91	6.58	PASS





26dB Bandwidth

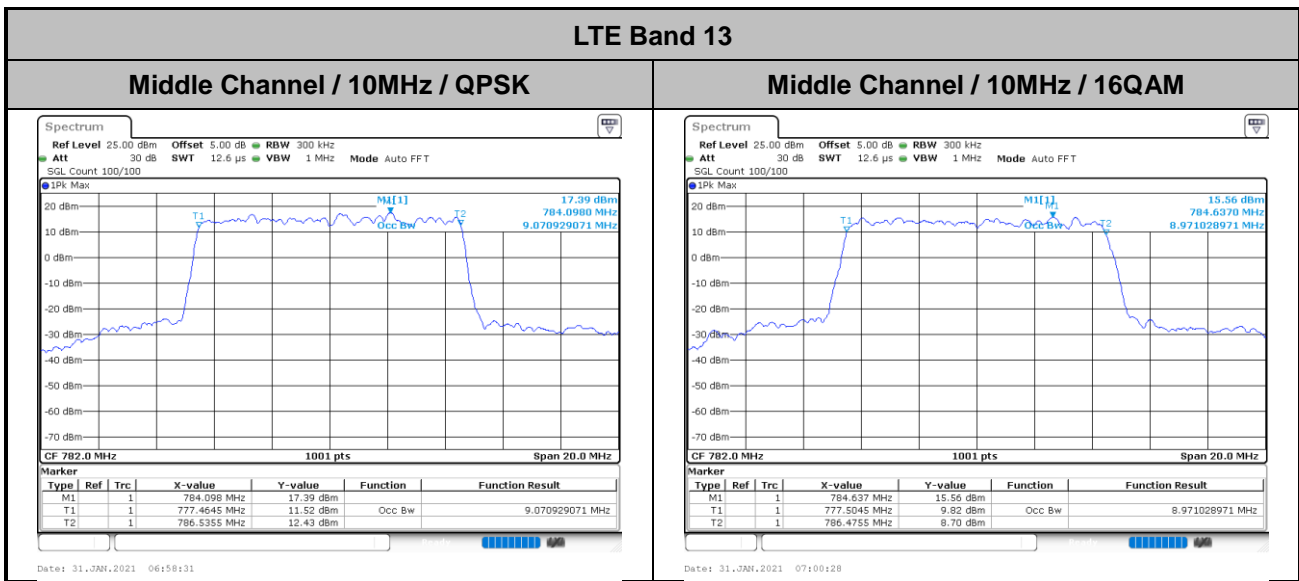
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.75	9.69





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.07	8.97

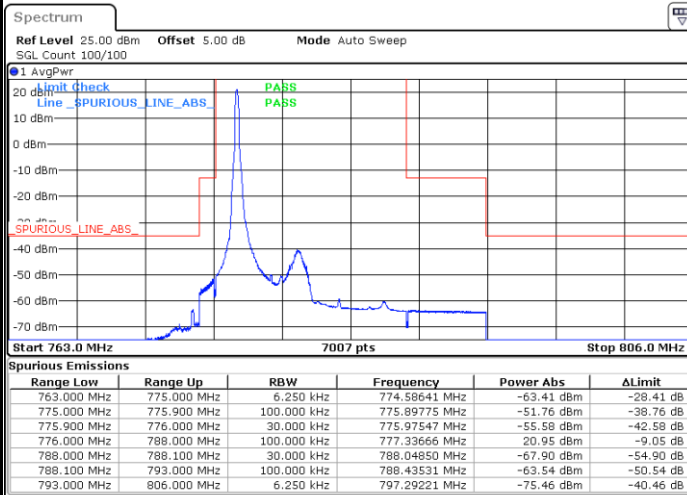




Conducted Band Edge

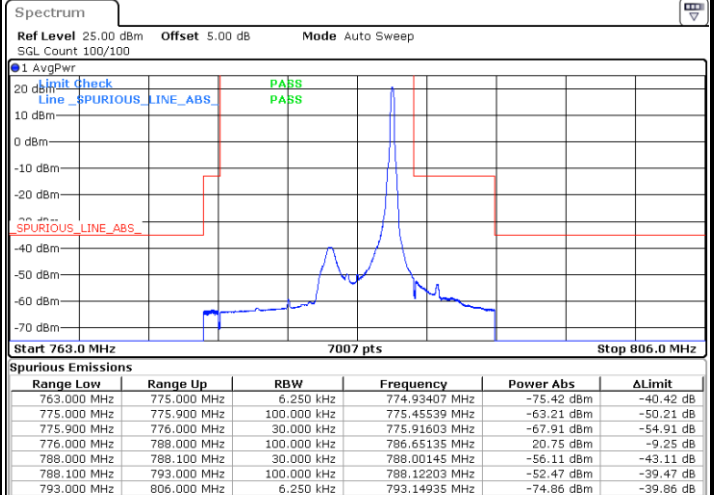
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



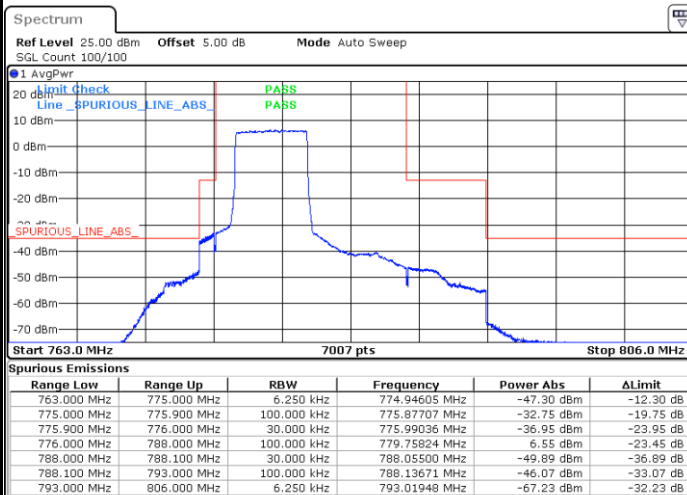
Date: 31.JAN.2021 06:26:30

Highest Band Edge / 1 RB



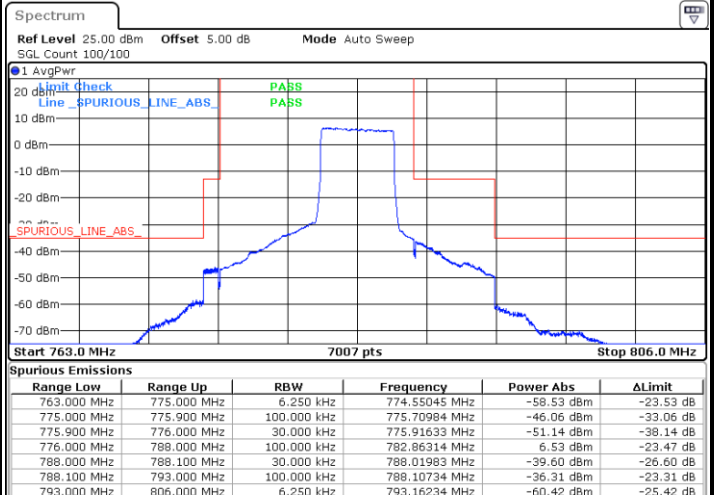
Date: 31.JAN.2021 06:36:52

Lowest Band Edge / Full RB



Date: 31.JAN.2021 06:33:54

Highest Band Edge / Full RB

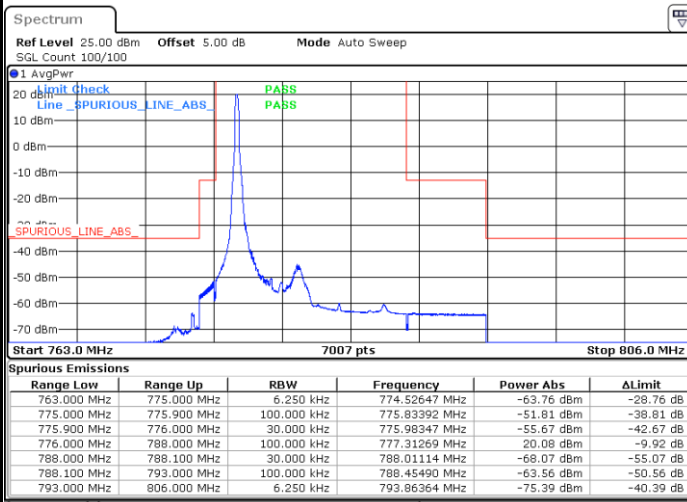


Date: 31.JAN.2021 06:45:32



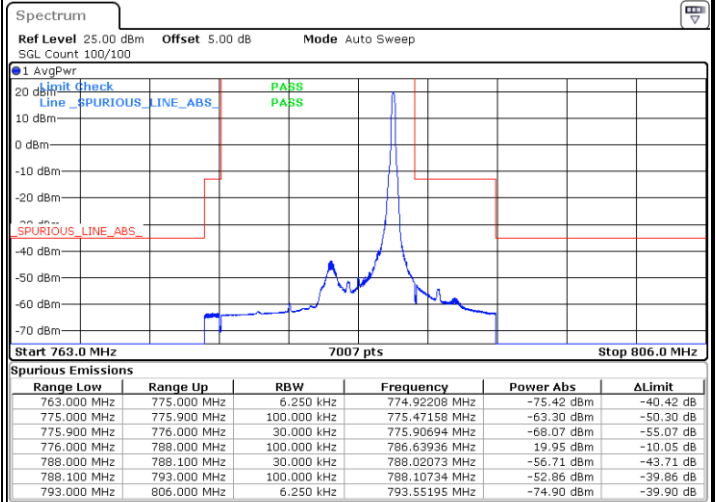
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB



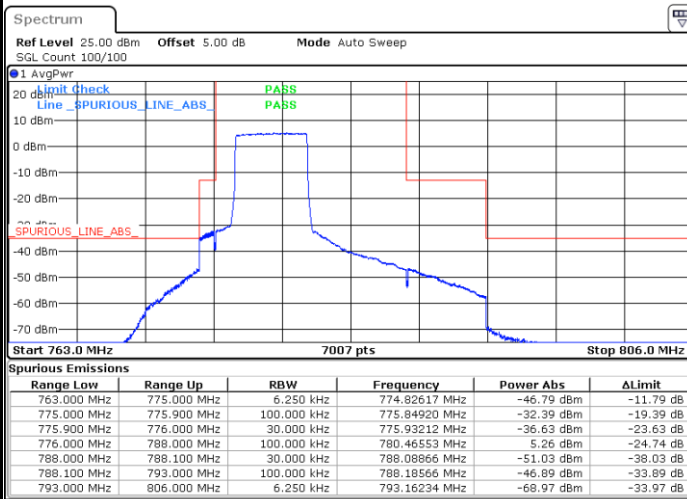
Date: 31.JAN.2021 06:28:03

Highest Band Edge / 1 RB



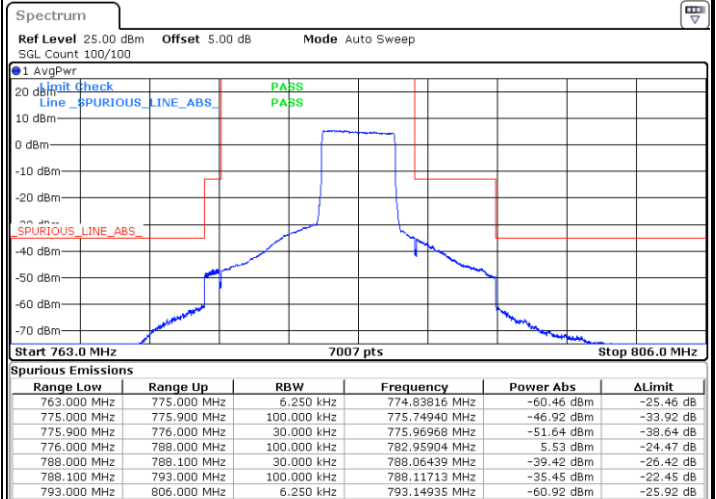
Date: 31.JAN.2021 06:38:35

Lowest Band Edge / Full RB



Date: 31.JAN.2021 06:32:17

Highest Band Edge / Full RB



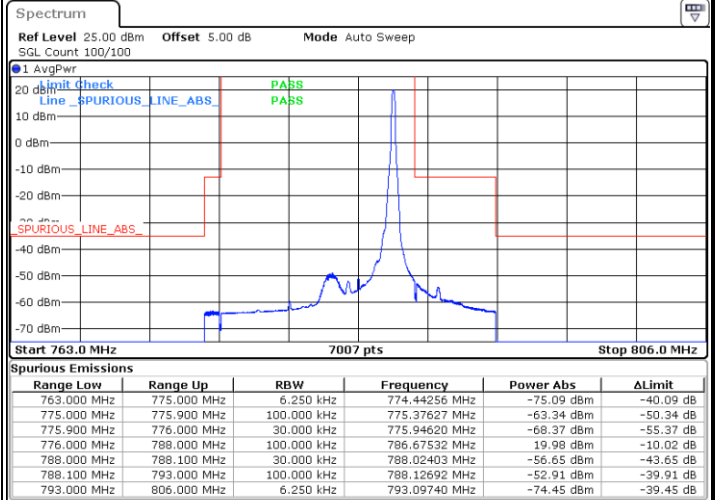
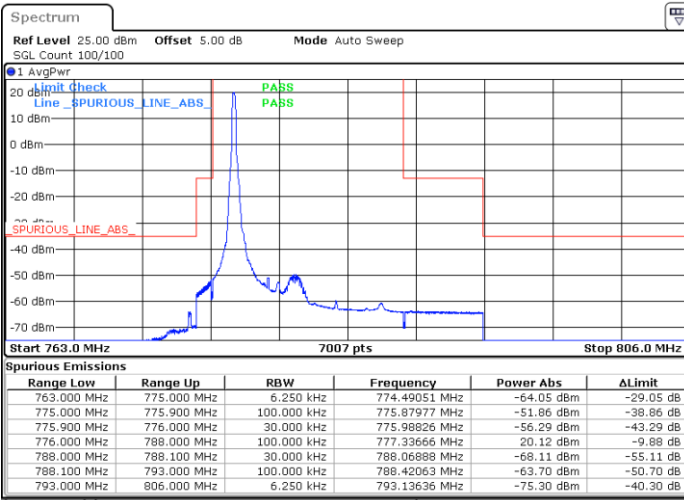
Date: 31.JAN.2021 06:42:36



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

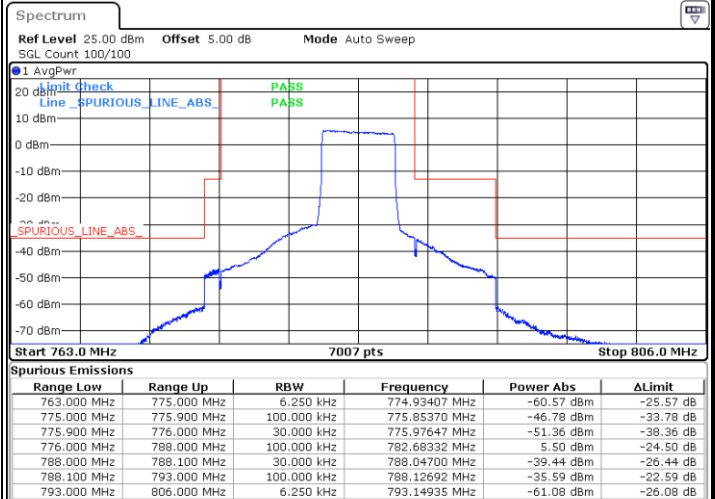
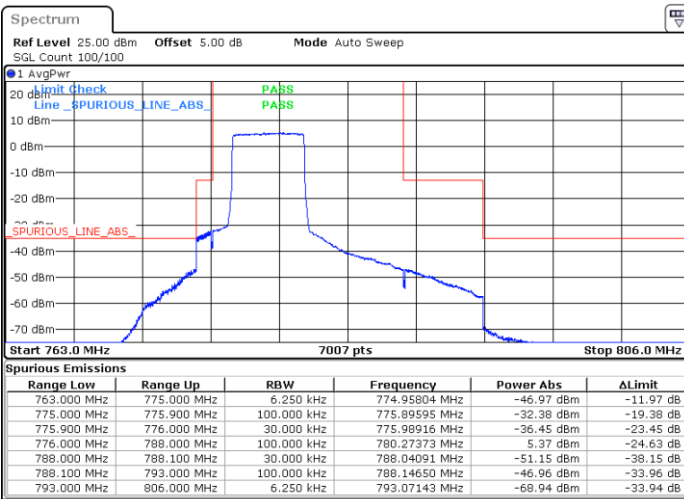


Date: 31.JAN.2021 06:29:15

Date: 31.JAN.2021 06:39:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



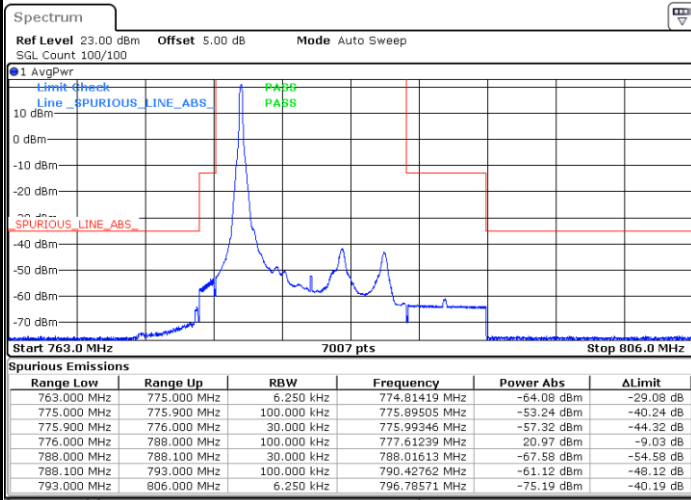
Date: 31.JAN.2021 06:30:42

Date: 31.JAN.2021 06:41:19



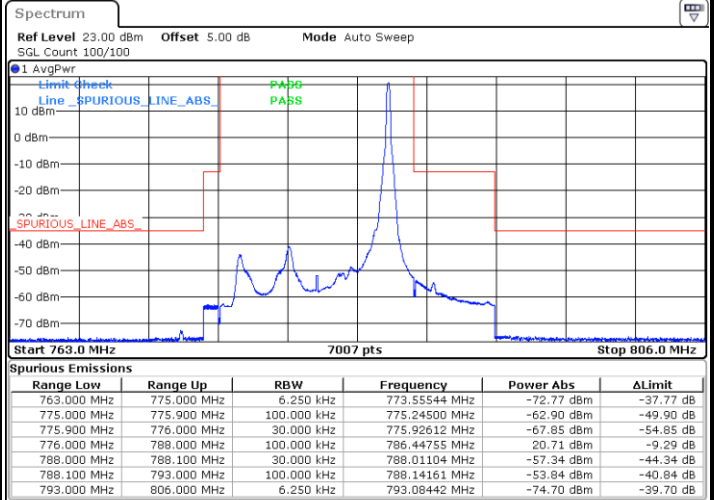
LTE Band 13 / 10MHz / QPSK

MiddleBand Edge / 1 RB0



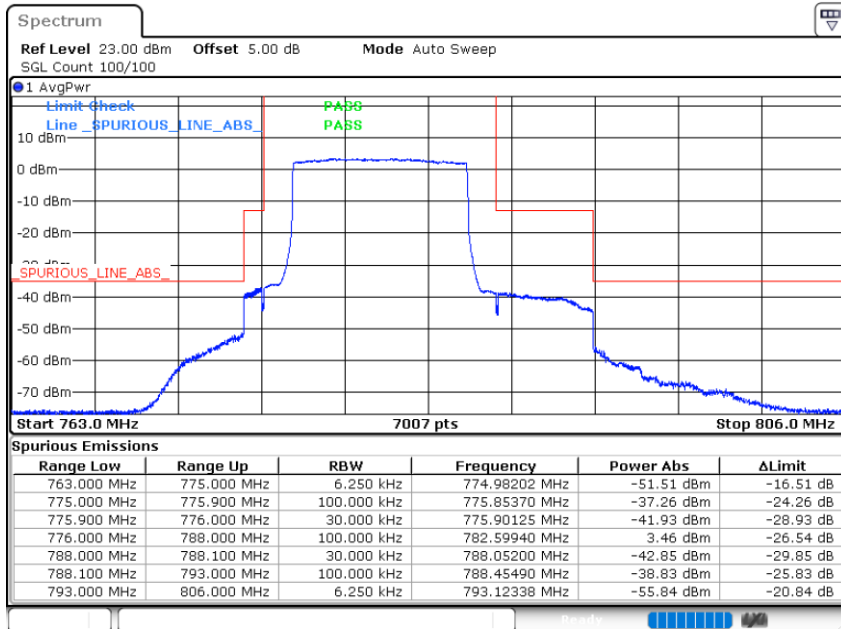
Date: 31.JAN.2021 06:48:18

MiddleBand Edge / 1 RBMax



Date: 31.JAN.2021 06:57:57

MiddleBand Edge / FullIRB

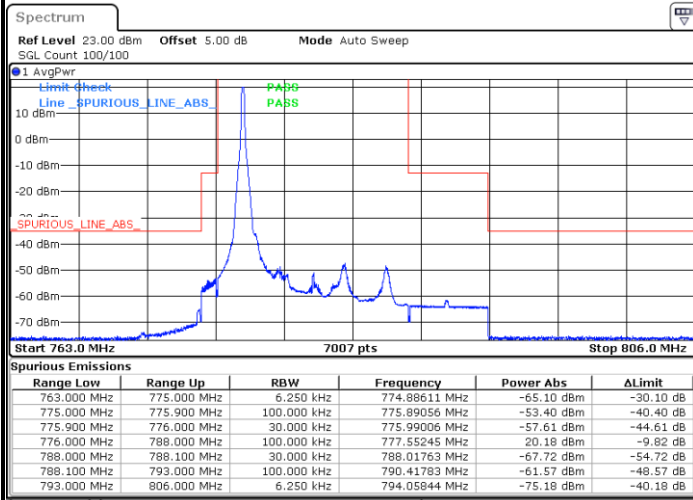


Date: 31.JAN.2021 06:59:42



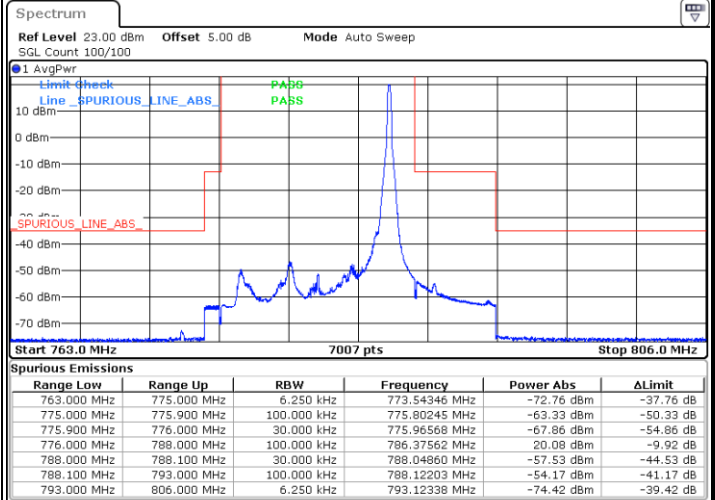
LTE Band 13 / 10MHz / 16QAM

MiddleBand Edge / 1 RB0



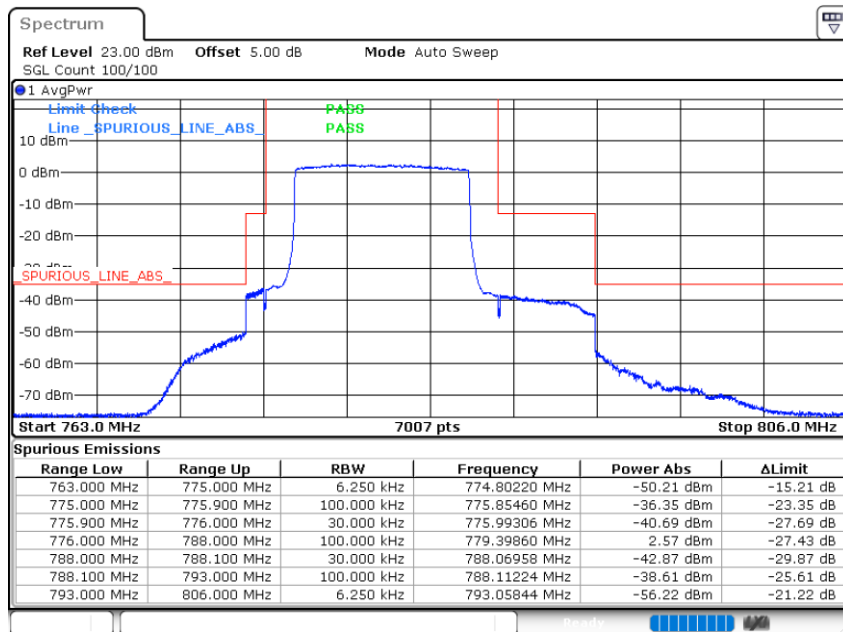
Date: 31.JAN.2021 06:49:49

MiddleBand Edge / 1 RBMax



Date: 31.JAN.2021 06:56:29

MiddleBand Edge / FullIRB

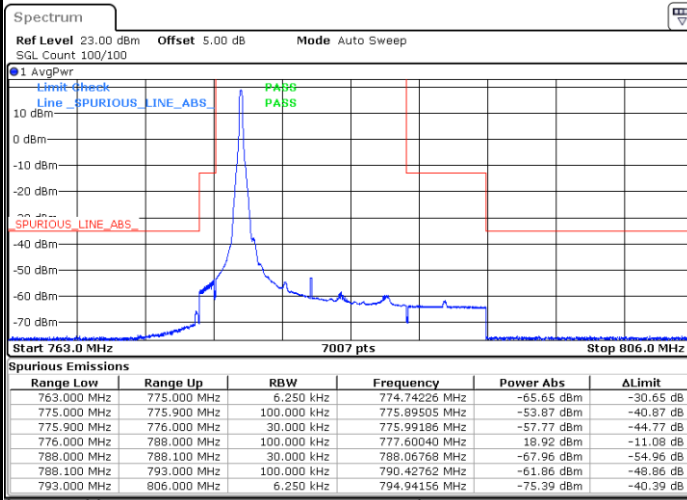


Date: 31.JAN.2021 07:02:20



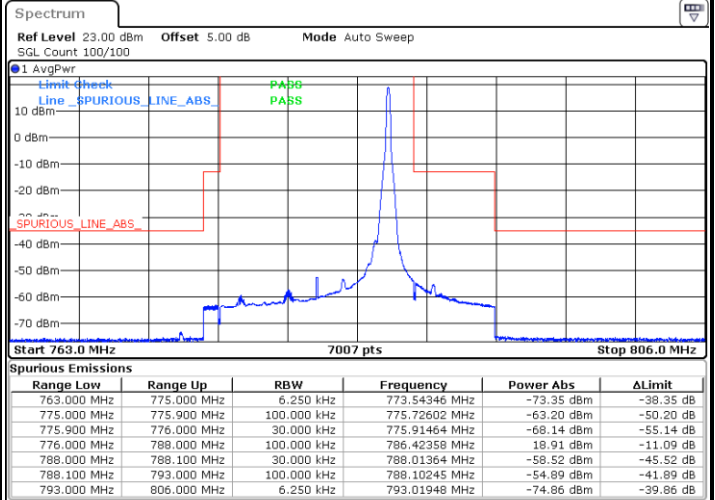
LTE Band 13 / 10MHz / 64QAM

MiddleBand Edge / 1 RB0



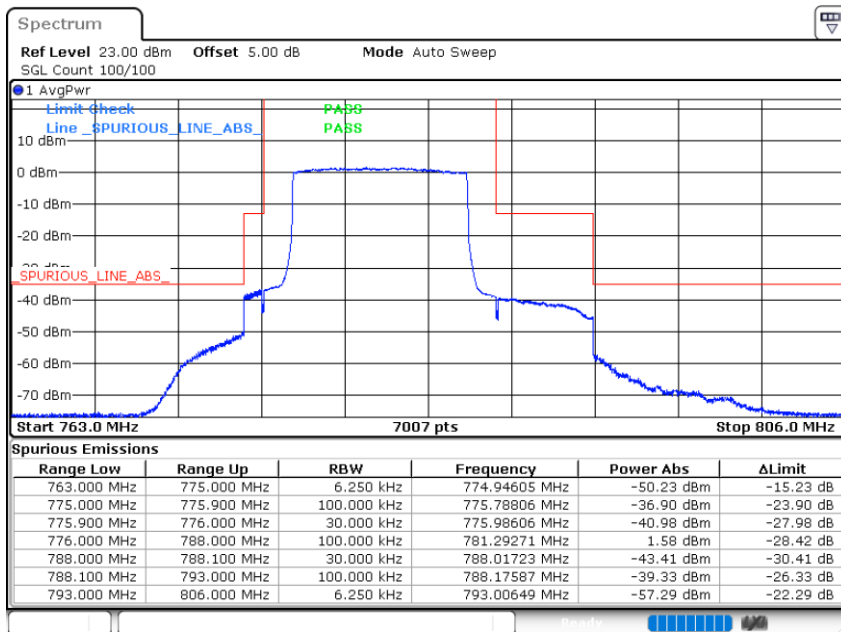
Date: 31.JAN.2021 06:51:01

MiddleBand Edge / 1 RBMax



Date: 31.JAN.2021 06:52:19

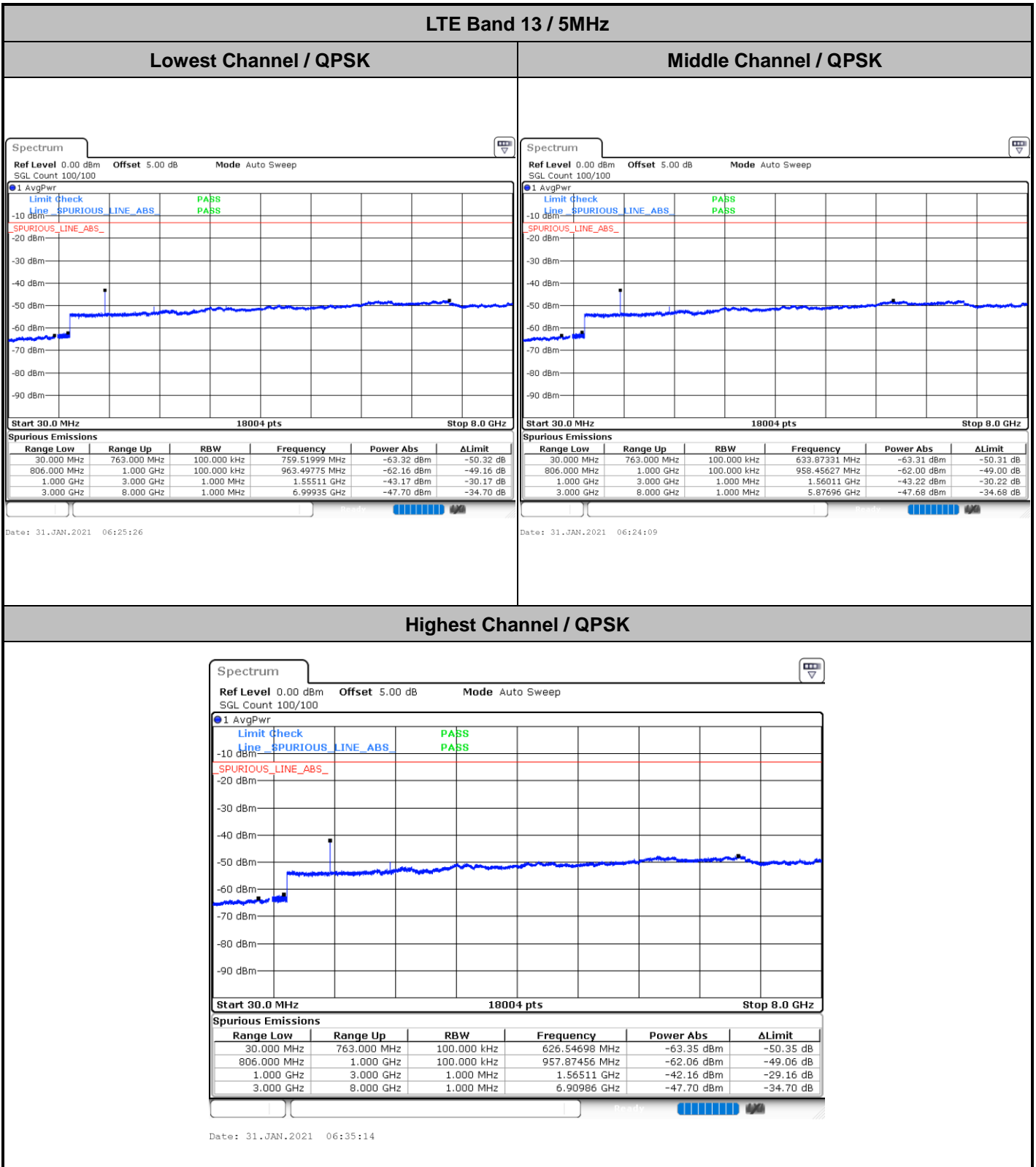
MiddleBand Edge / FullIRB



Date: 31.JAN.2021 07:05:24



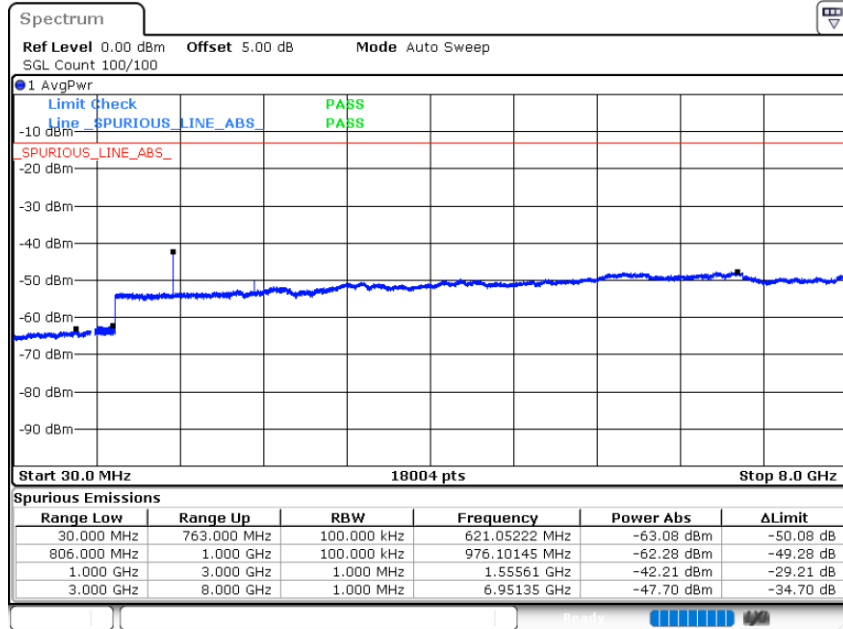
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 31.JAN.2021 06:46:53



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	0.0010	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0029	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 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	5.04	5.86	6.55	PASS