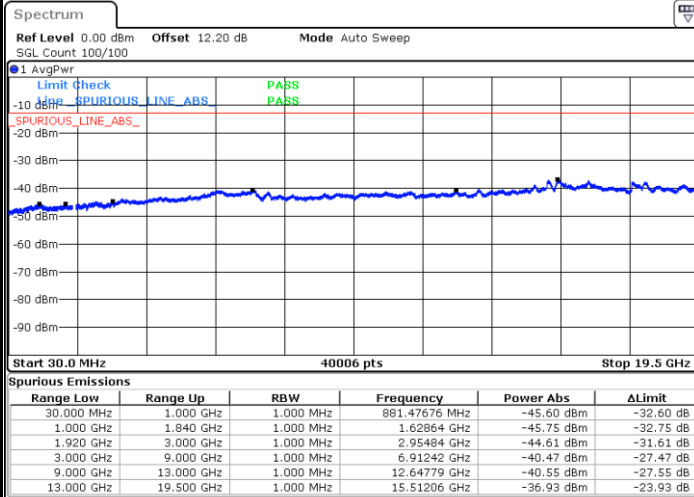




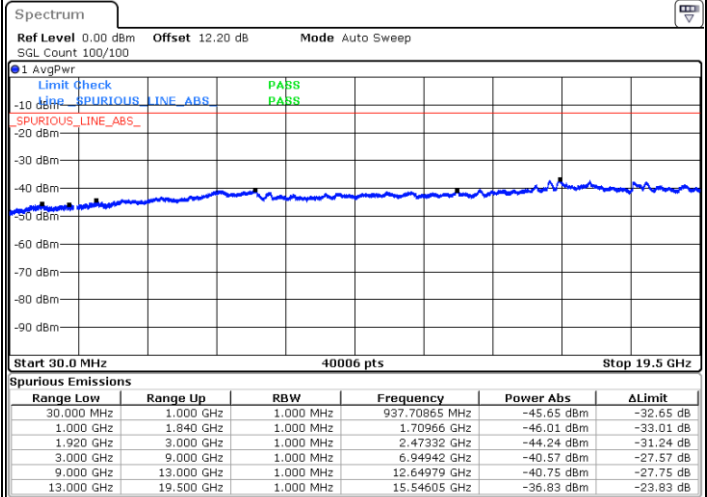
LTE Band 2 / 10MHz

Lowest Channel / QPSK



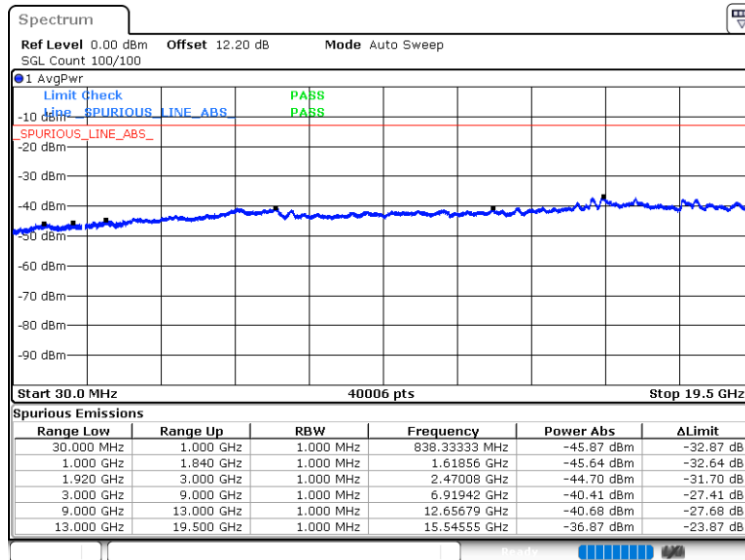
Date: 12.NOV.2021 19:36:42

Middle Channel / QPSK



Date: 12.NOV.2021 19:38:17

Highest Channel / QPSK

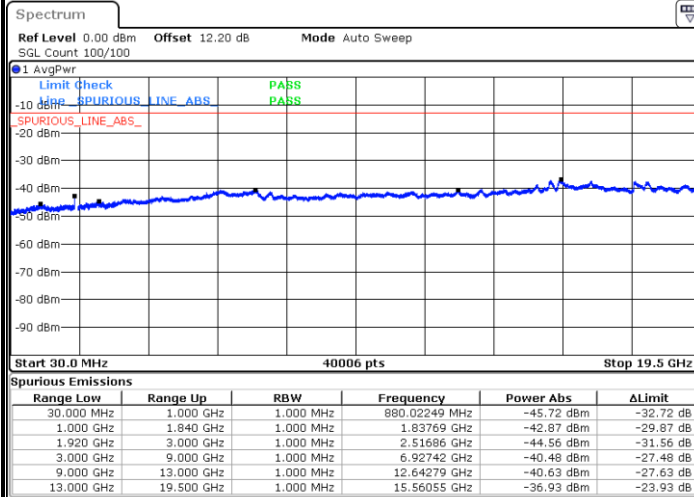


Date: 12.NOV.2021 19:40:52



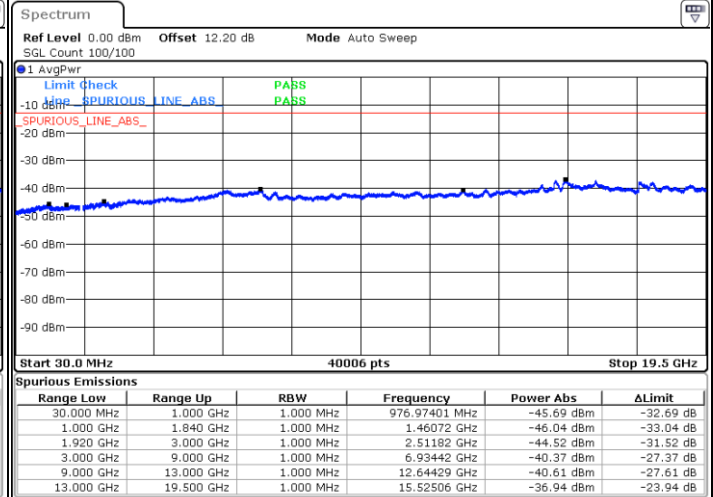
LTE Band 2 / 15MHz

Lowest Channel / QPSK



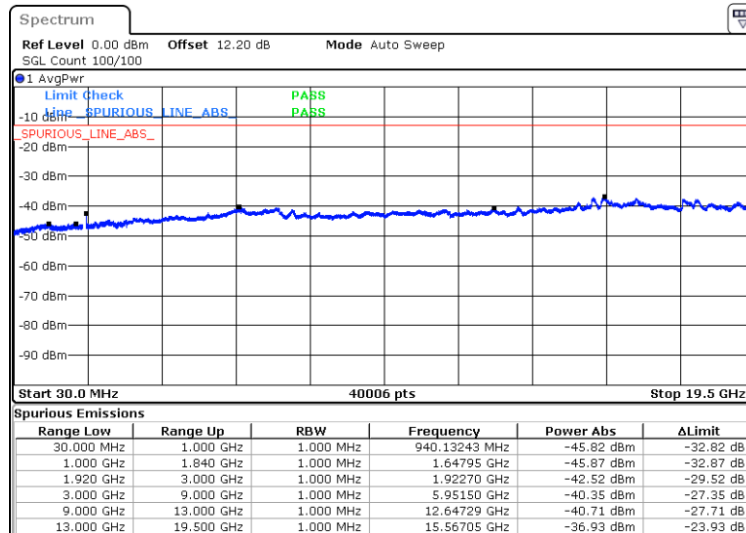
Date: 12.NOV.2021 19:43:28

Middle Channel / QPSK



Date: 12.NOV.2021 19:45:03

Highest Channel / QPSK

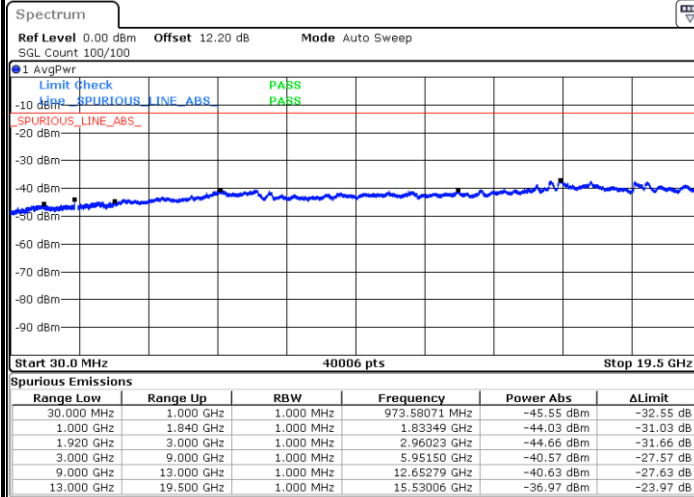


Date: 12.NOV.2021 19:47:38



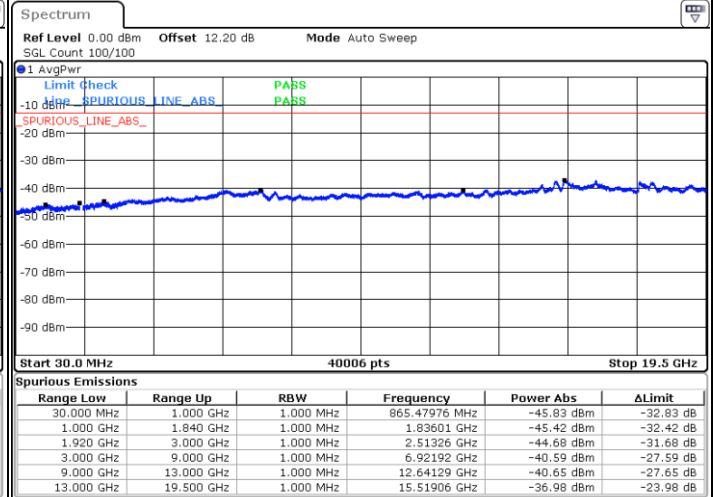
LTE Band 2 / 20MHz

Lowest Channel / QPSK



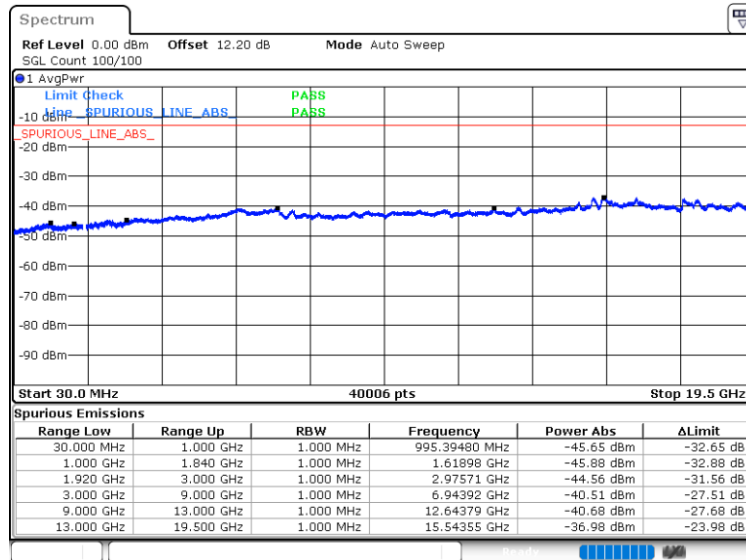
Date: 12.NOV.2021 19:50:14

Middle Channel / QPSK



Date: 12.NOV.2021 19:51:50

Highest Channel / QPSK



Date: 12.NOV.2021 19:54:24

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	0.0028	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0093	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0074	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0092	
20	Battery End Point	0.0074	

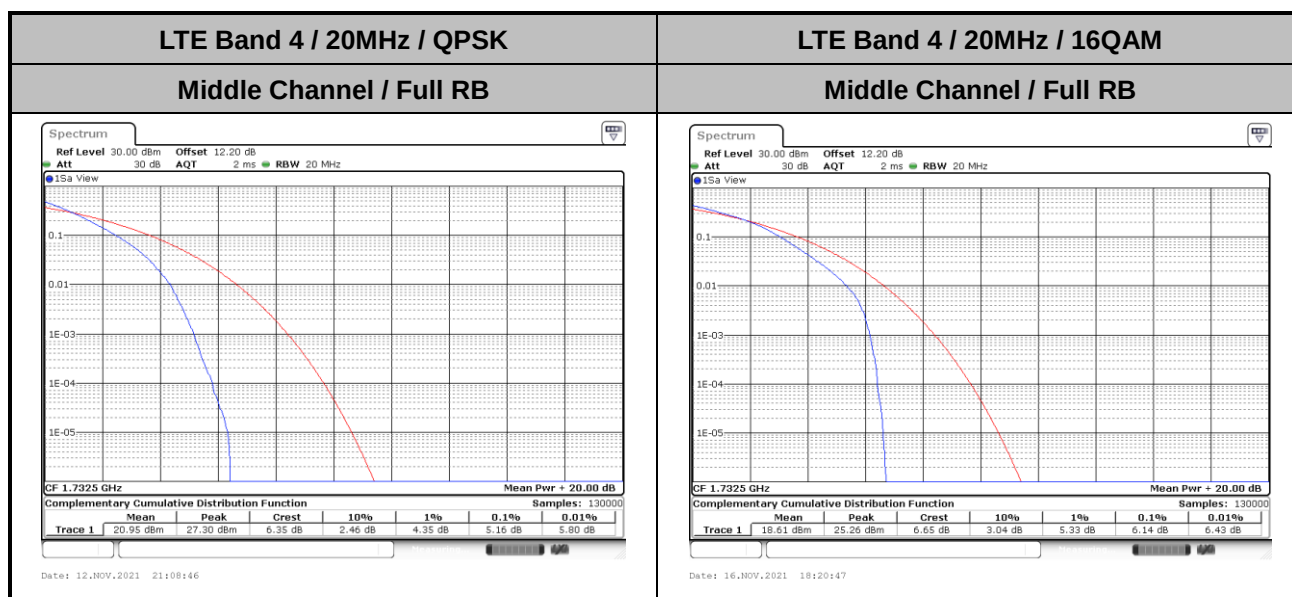
Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =11.4 V. ; Maximum Voltage =12.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.16	6.14	-	-	PASS





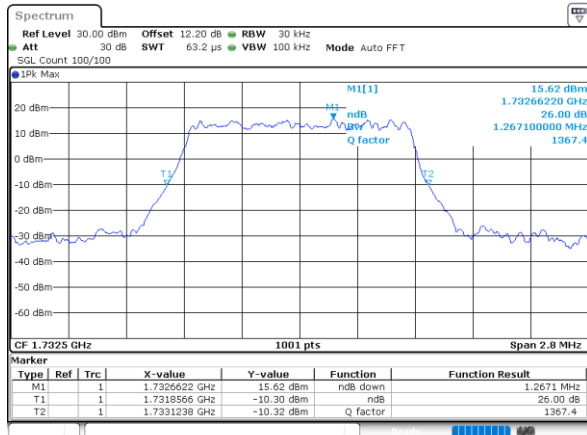
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.27	1.24	3.05	3.02	4.93	4.88	9.93	5.81	14.27	6.17	19.06	6.19

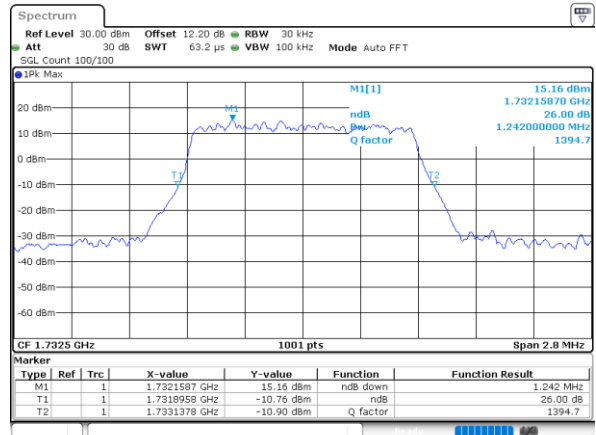


LTE Band 4

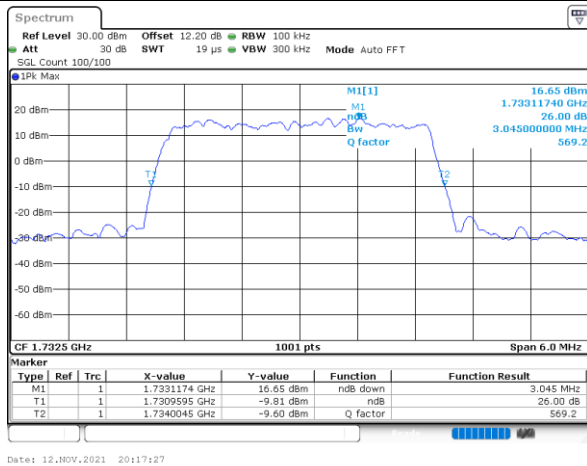
Middle Channel / 1.4MHz / QPSK



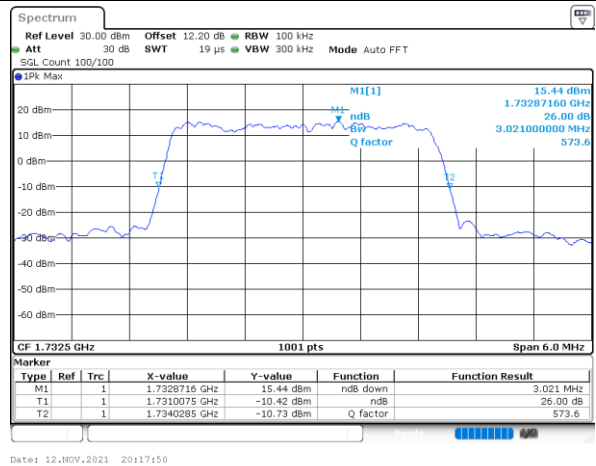
Middle Channel / 1.4MHz / 16QAM



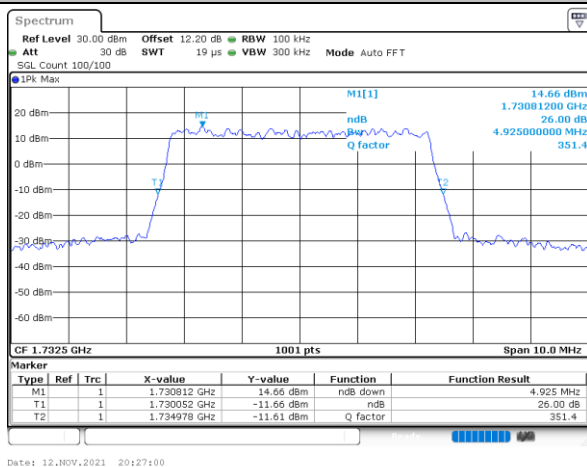
Middle Channel / 3MHz / QPSK



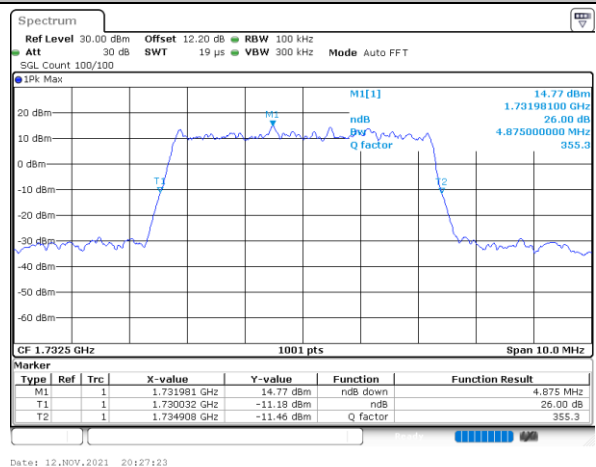
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



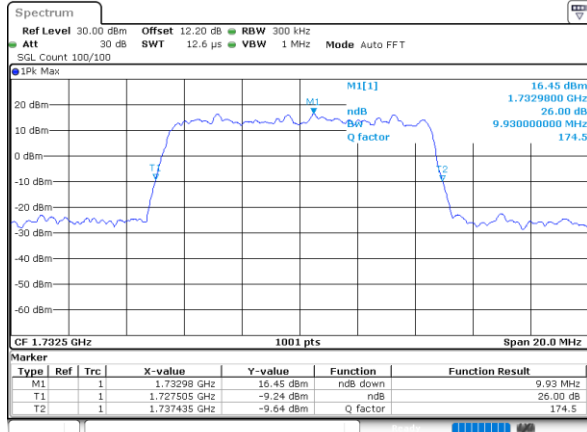
Middle Channel / 5MHz / 16QAM





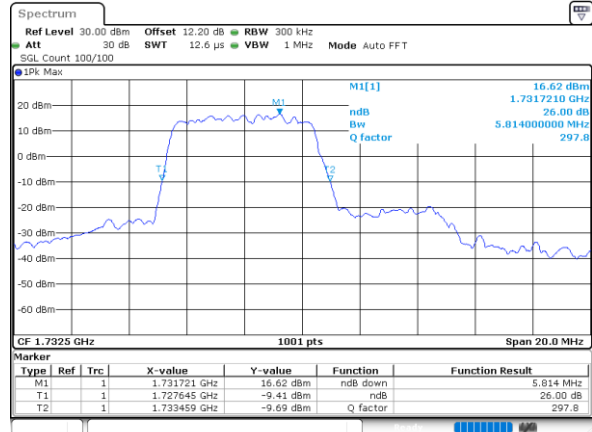
LTE Band 4

Middle Channel / 10MHz / QPSK



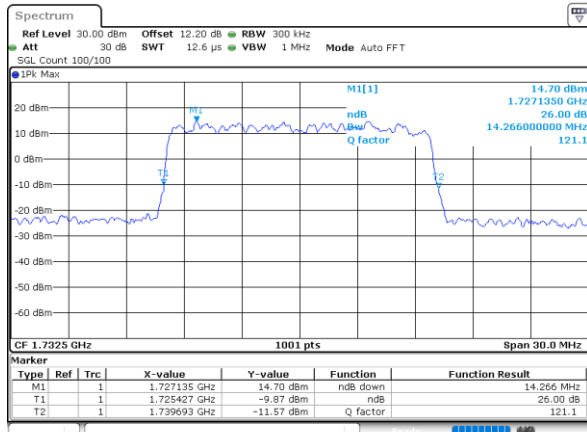
Date: 12.NOV.2021 20:34:45

Middle Channel / 10MHz / 16QAM



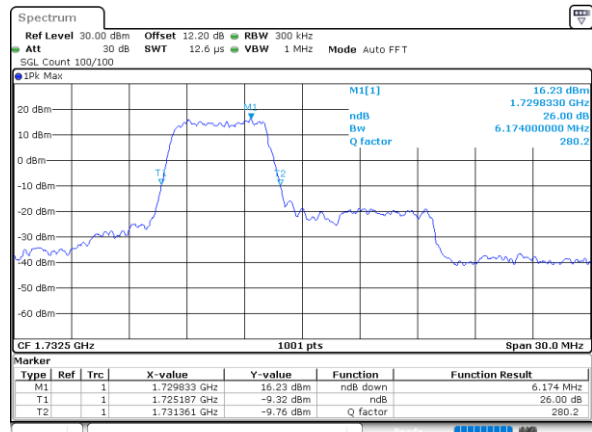
Date: 16.NOV.2021 18:12:19

Middle Channel / 15MHz / QPSK



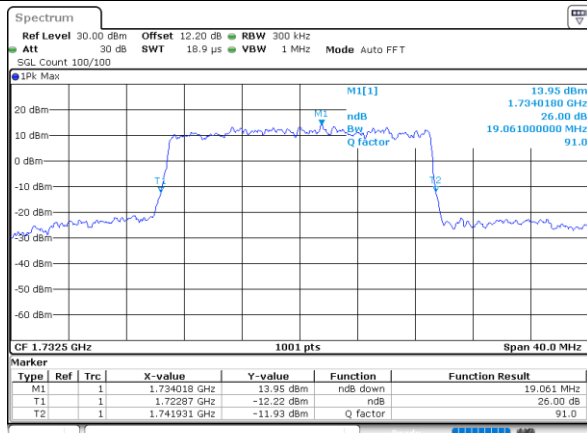
Date: 12.NOV.2021 20:40:50

Middle Channel / 15MHz / 16QAM



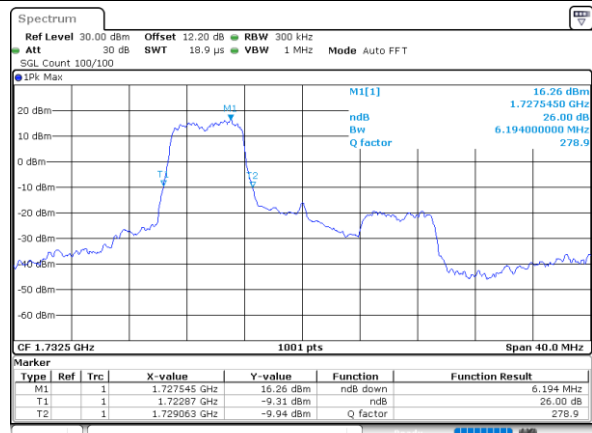
Date: 16.NOV.2021 18:16:26

Middle Channel / 20MHz / QPSK



Date: 12.NOV.2021 20:46:56

Middle Channel / 20MHz / 16QAM



Date: 16.NOV.2021 18:19:50



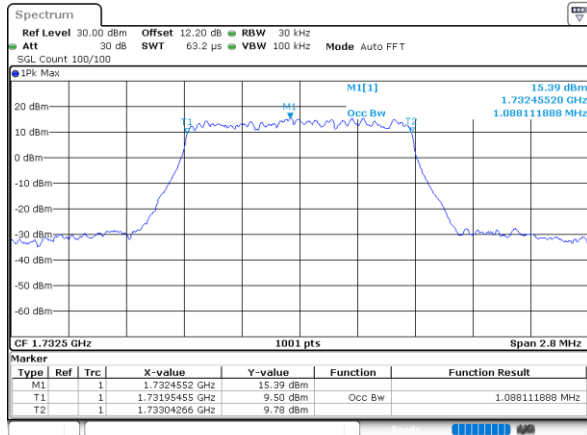
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.73	2.72	4.48	4.50	8.97	5.00	13.37	5.00	17.86	5.11

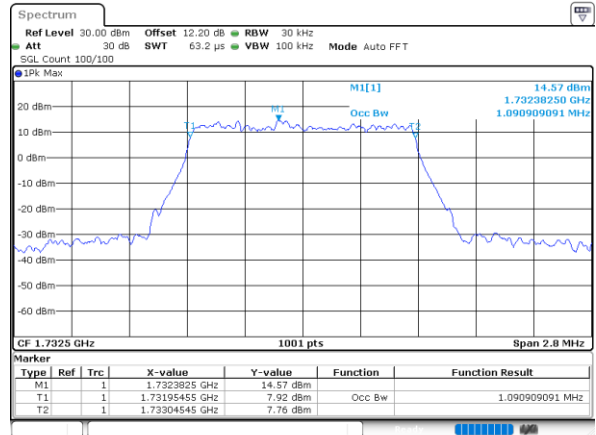


LTE Band 4

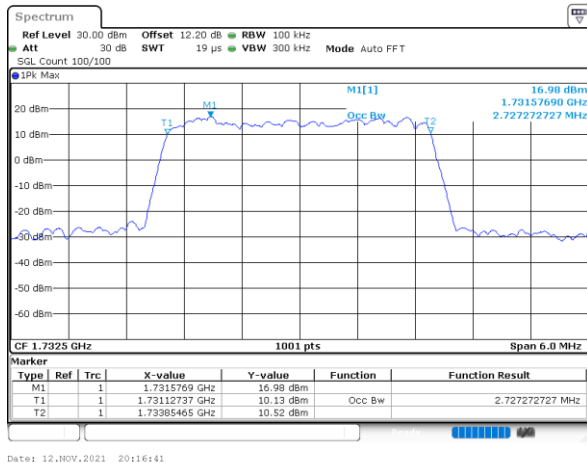
Middle Channel / 1.4MHz / QPSK



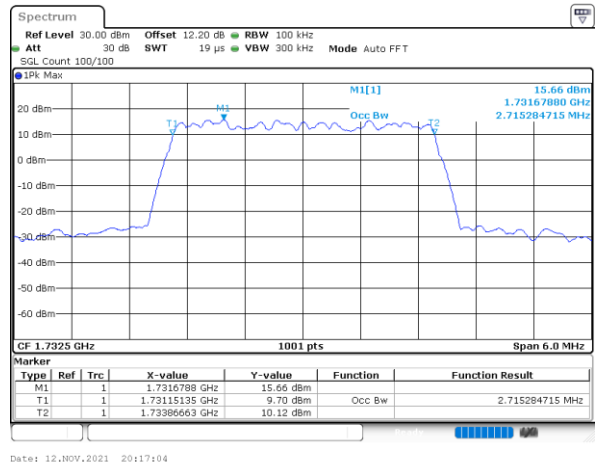
Middle Channel / 1.4MHz / 16QAM



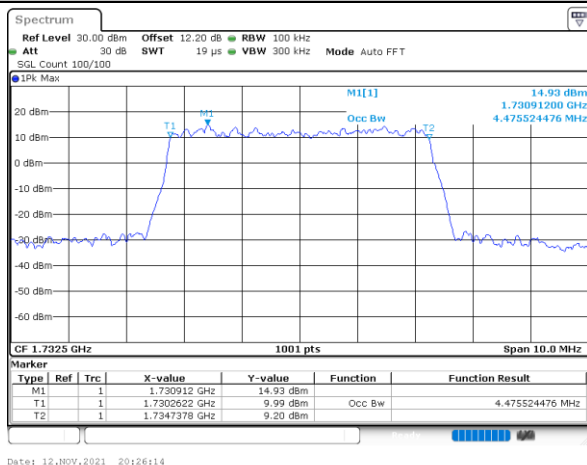
Middle Channel / 3MHz / QPSK



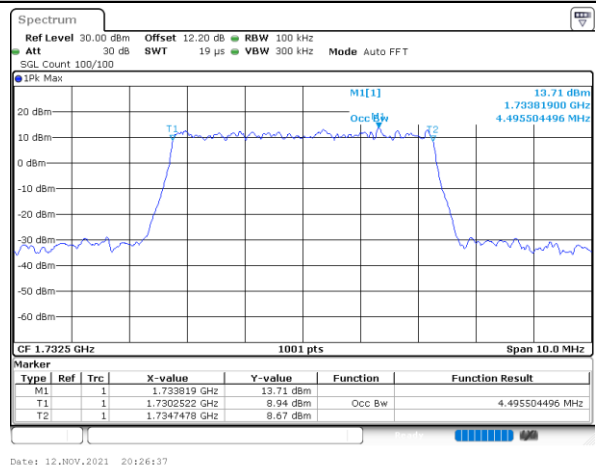
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



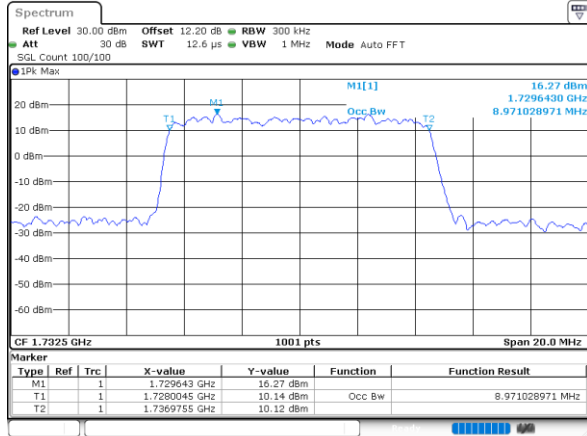
Middle Channel / 5MHz / 16QAM



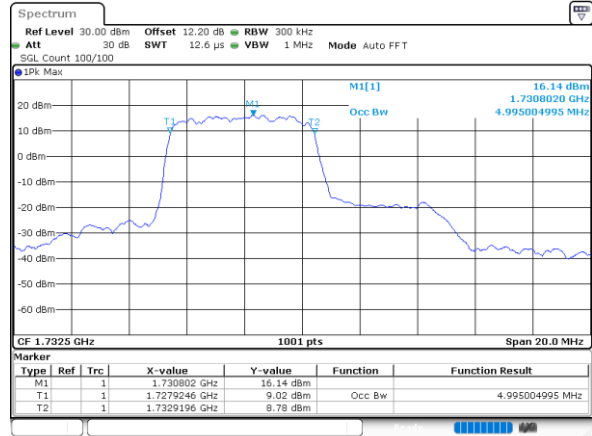


LTE Band 4

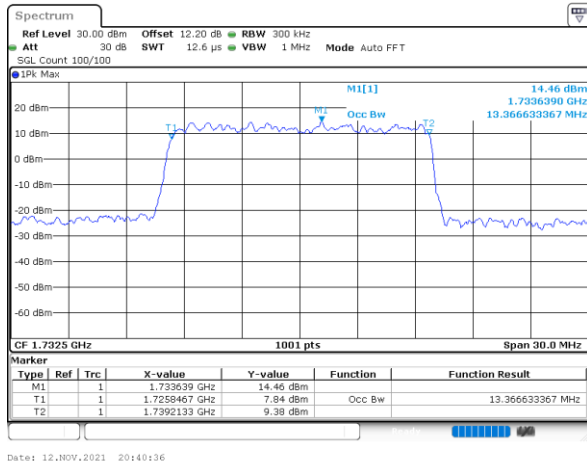
Middle Channel / 10MHz / QPSK



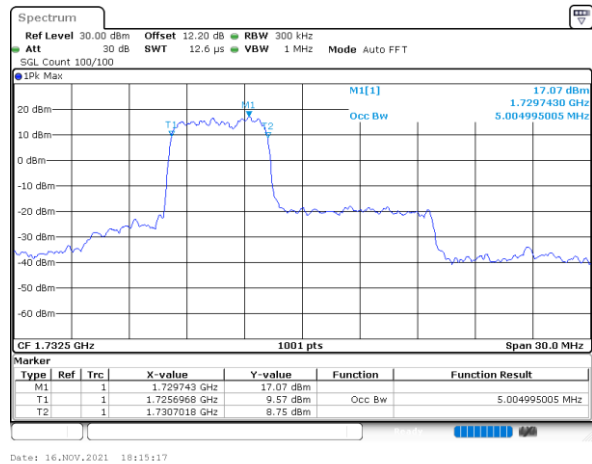
Middle Channel / 10MHz / 16QAM



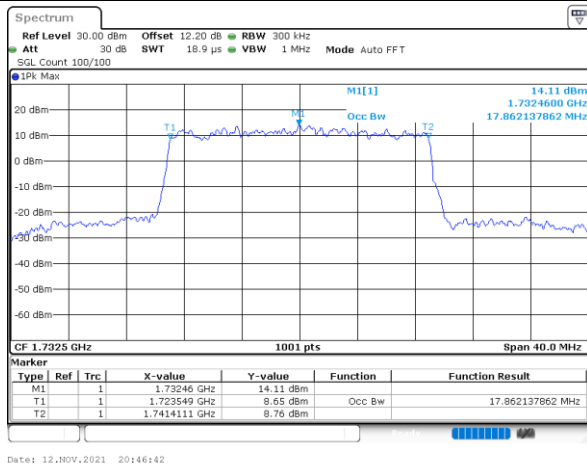
Middle Channel / 15MHz / QPSK



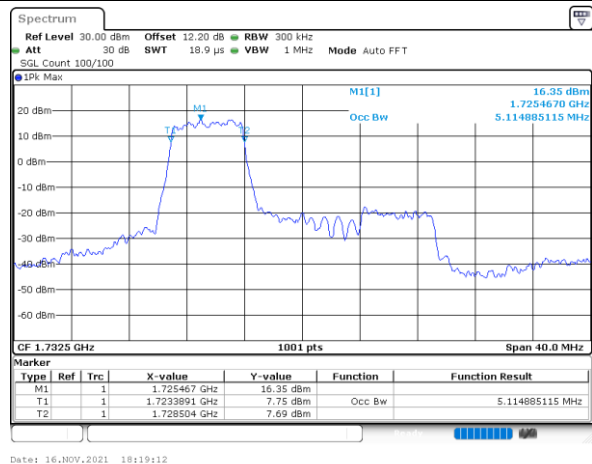
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

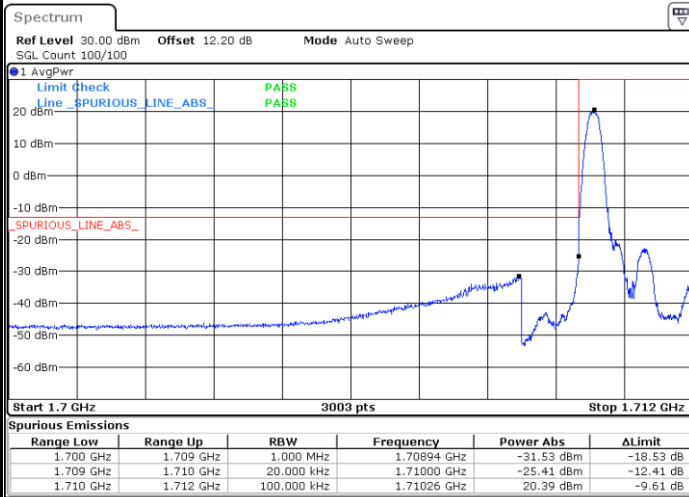




Conducted Band Edge

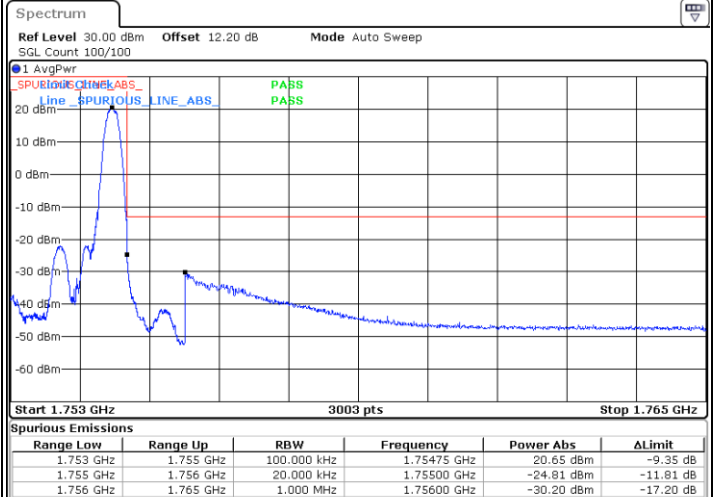
LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



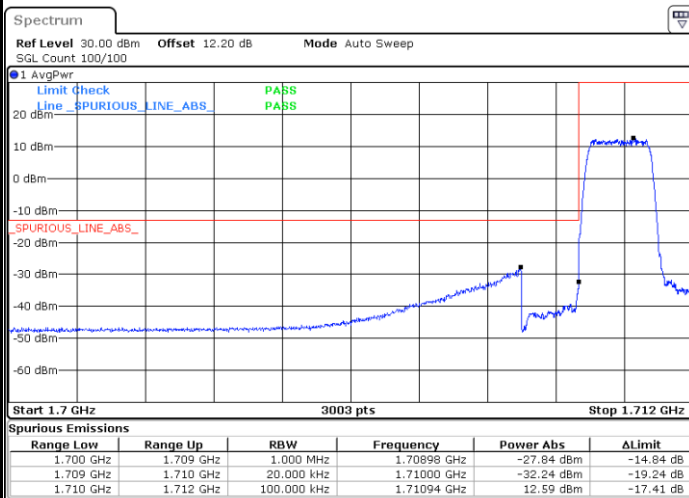
Date: 12.NOV.2021 20:03:51

Highest Band Edge / 1RB



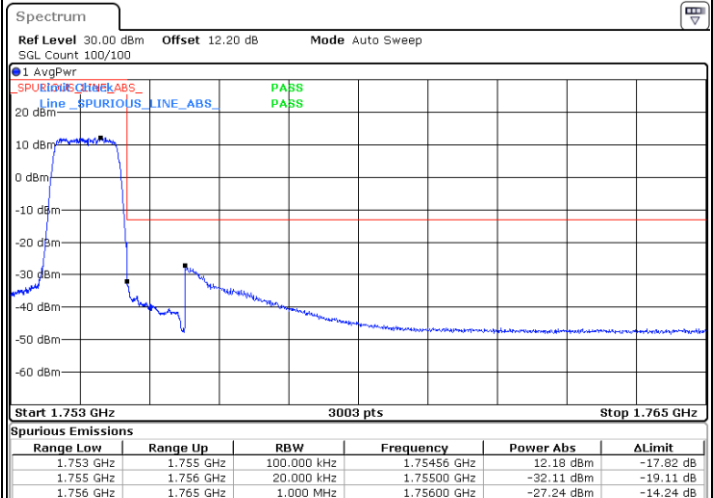
Date: 12.NOV.2021 20:09:54

Lowest Band Edge / Full RB



Date: 12.NOV.2021 20:05:08

Highest Band Edge / Full RB

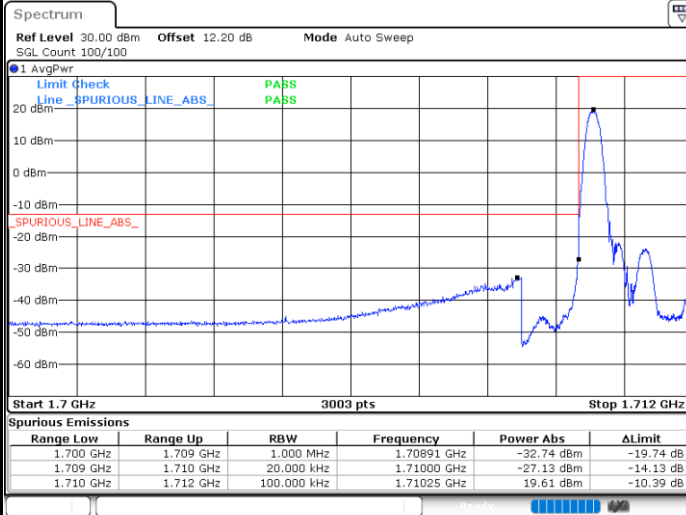


Date: 12.NOV.2021 20:11:10

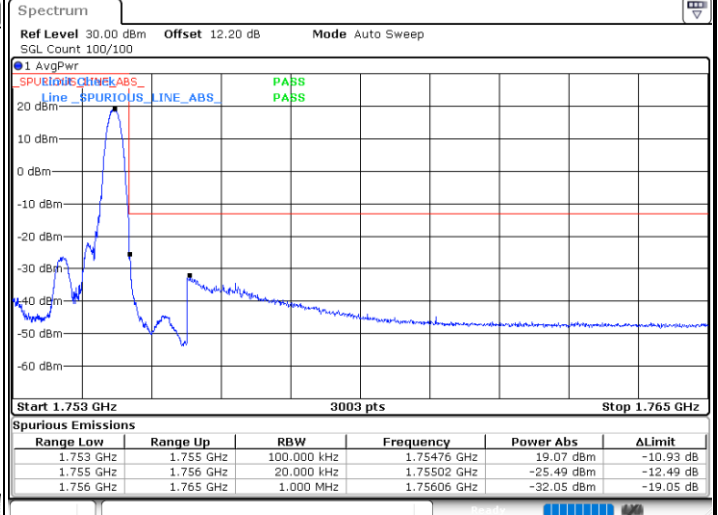


LTE Band 4 / 1.4MHz / 16QAM

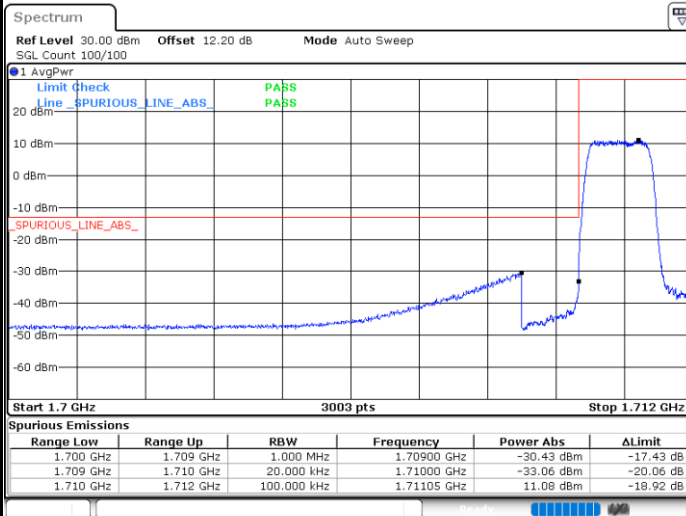
Lowest Band Edge / 1 RB



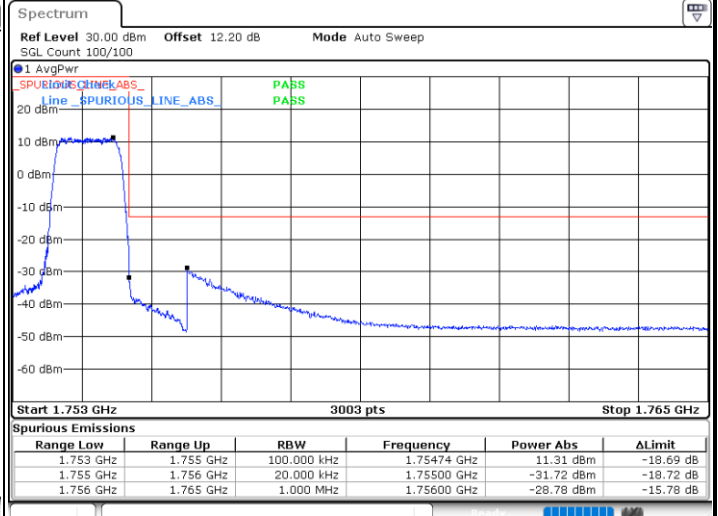
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



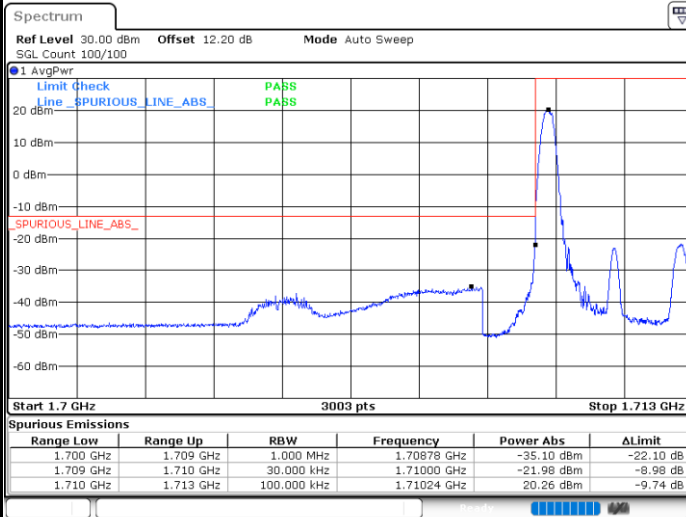
Highest Band Edge / Full RB



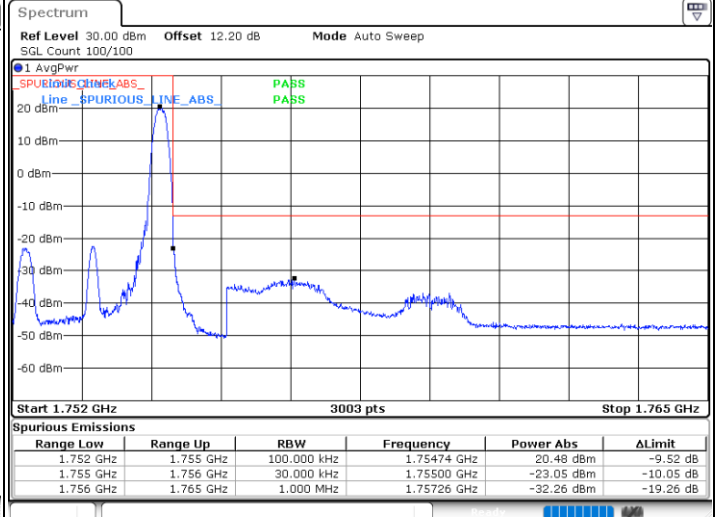


LTE Band 4 / 3MHz / QPSK

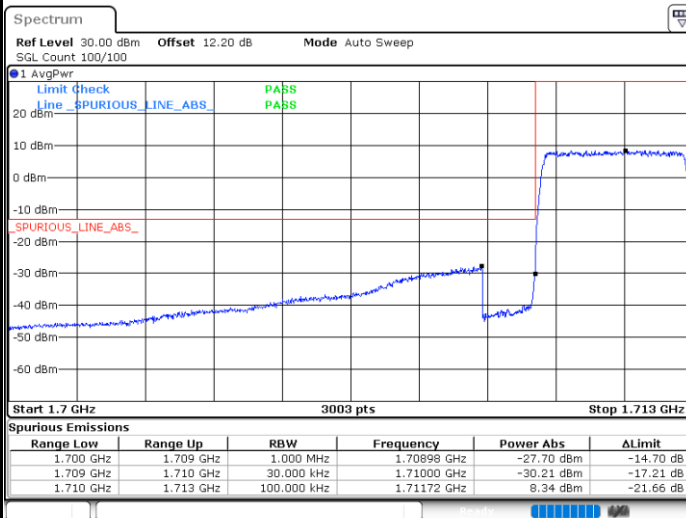
Lowest Band Edge / 1RB



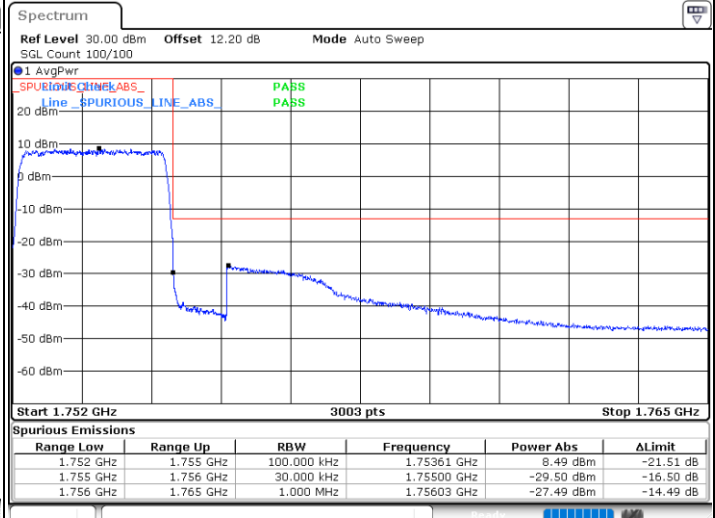
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



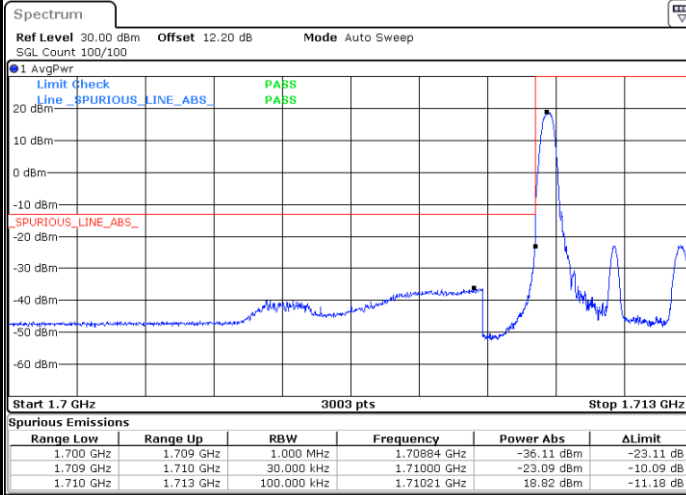
Highest Band Edge / Full RB



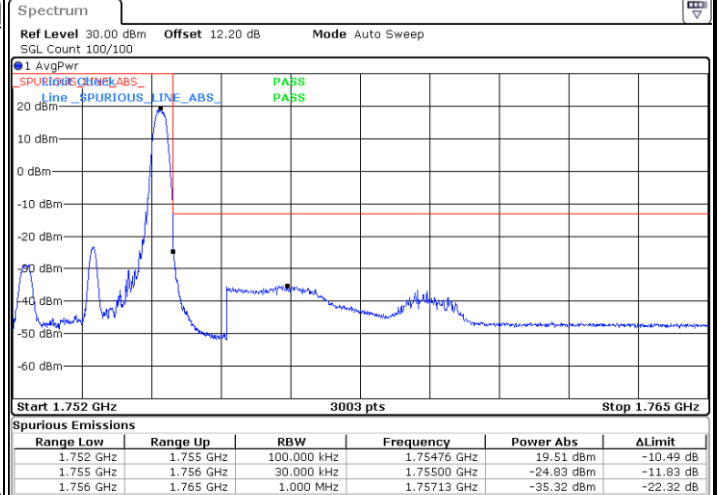


LTE Band 4 / 3MHz / 16QAM

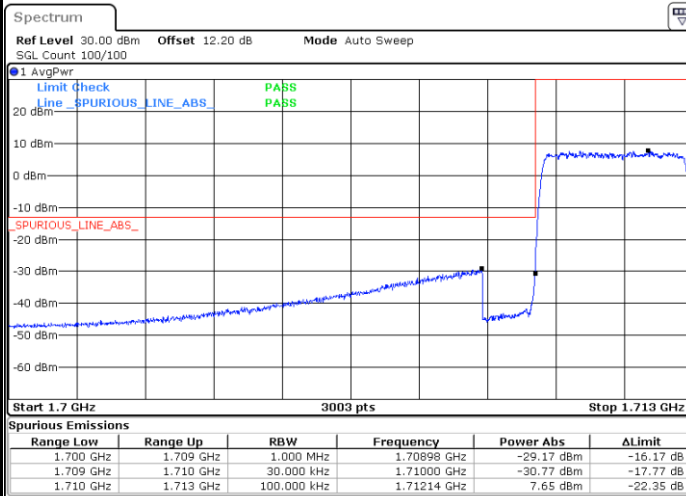
Lowest Band Edge / 1 RB



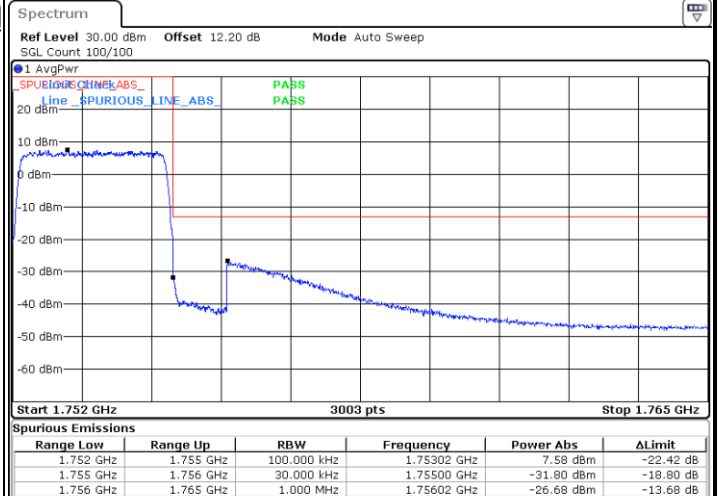
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



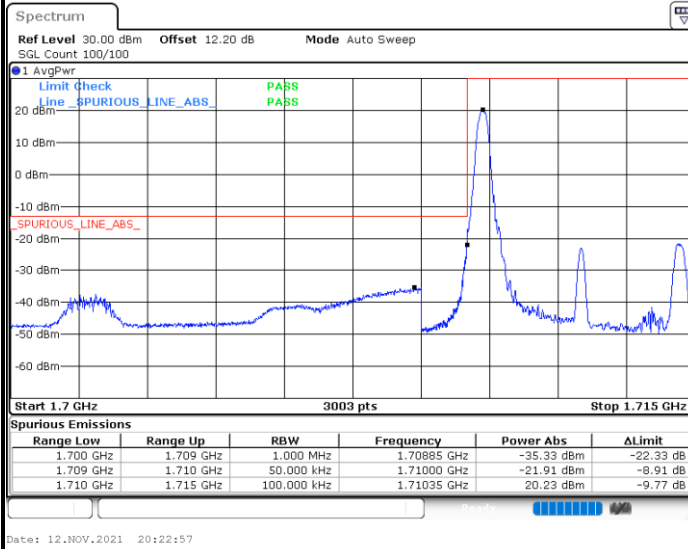
Highest Band Edge / Full RB



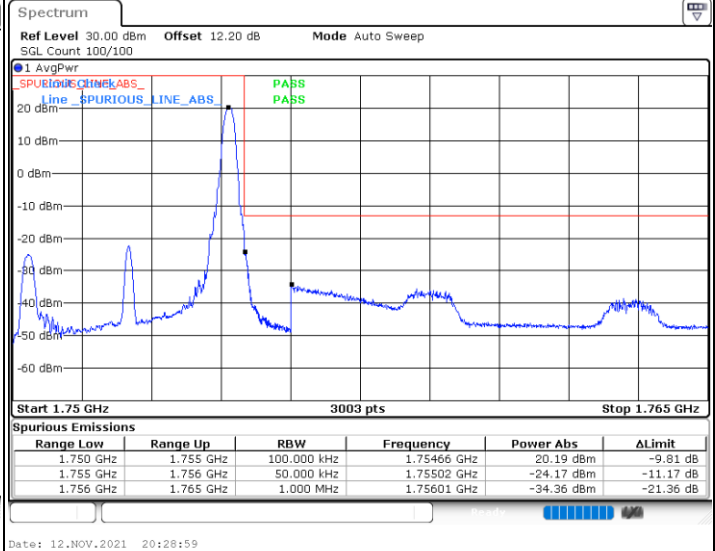


LTE Band 4 / 5MHz / QPSK

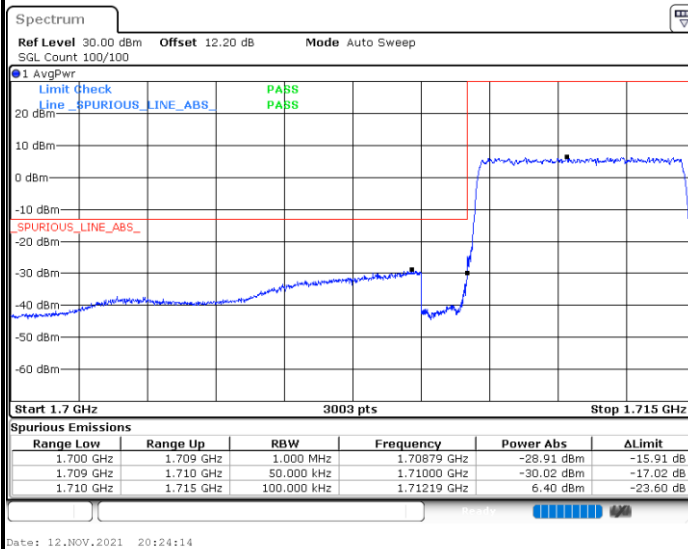
Lowest Band Edge / 1 RB



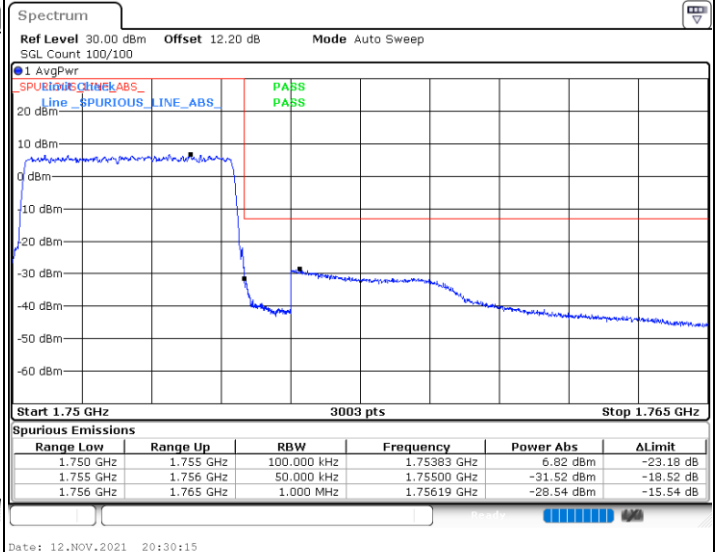
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



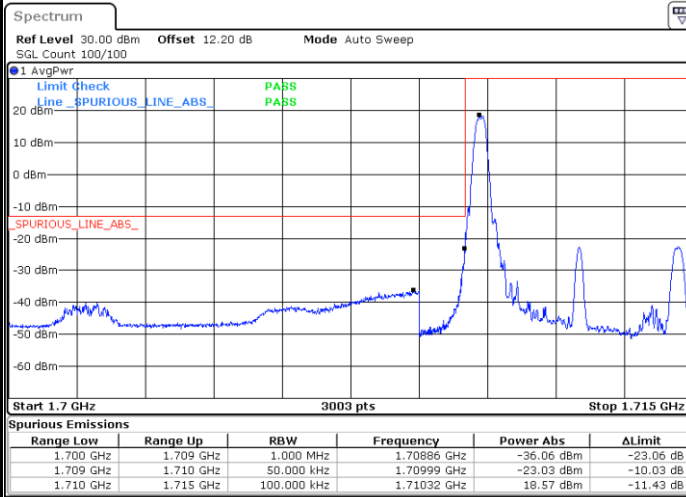
Highest Band Edge / Full RB



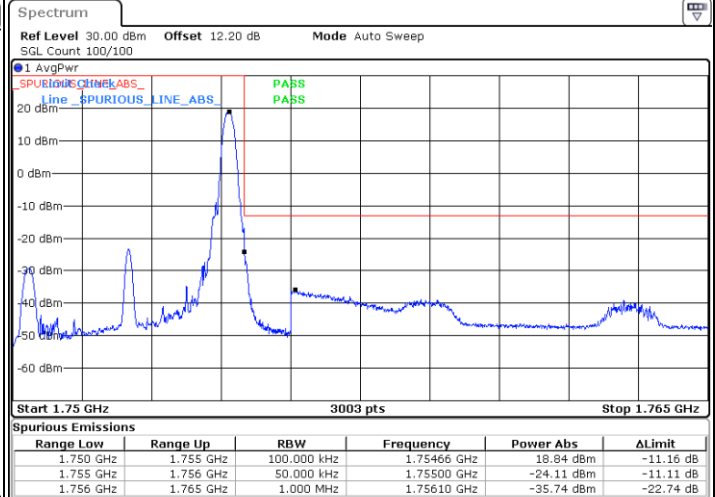


LTE Band 4 / 5MHz / 16QAM

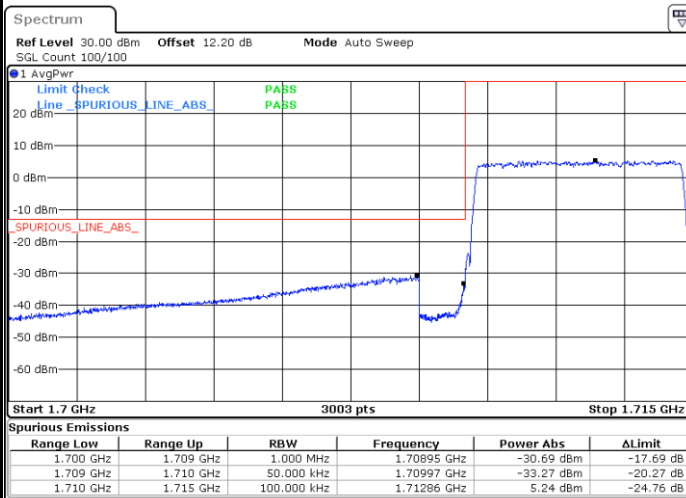
Lowest Band Edge / 1RB



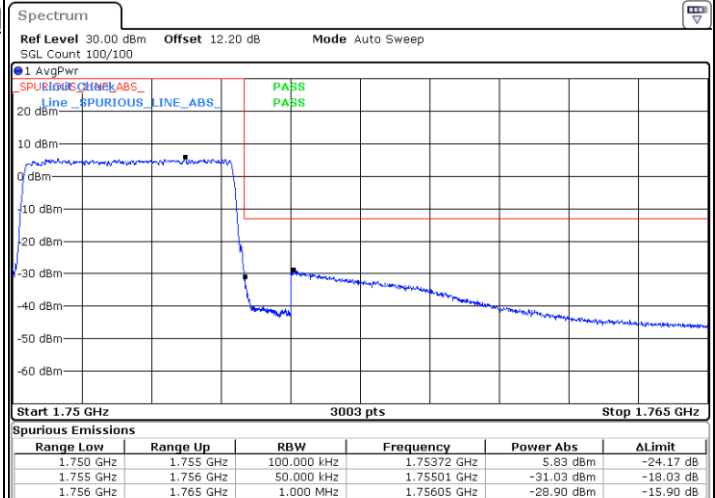
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



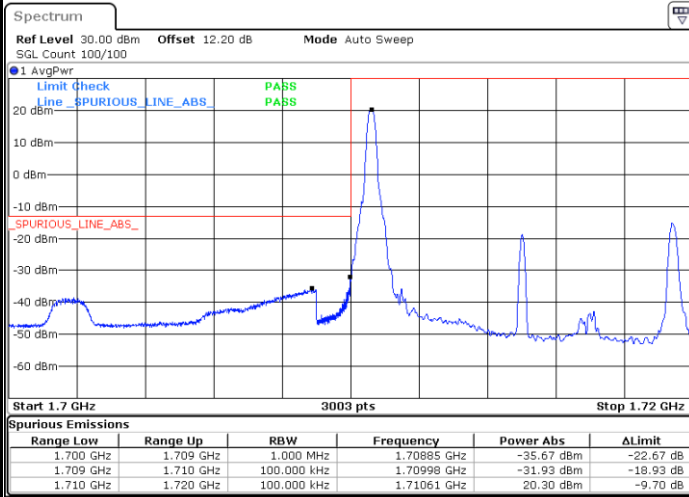
Highest Band Edge / Full RB



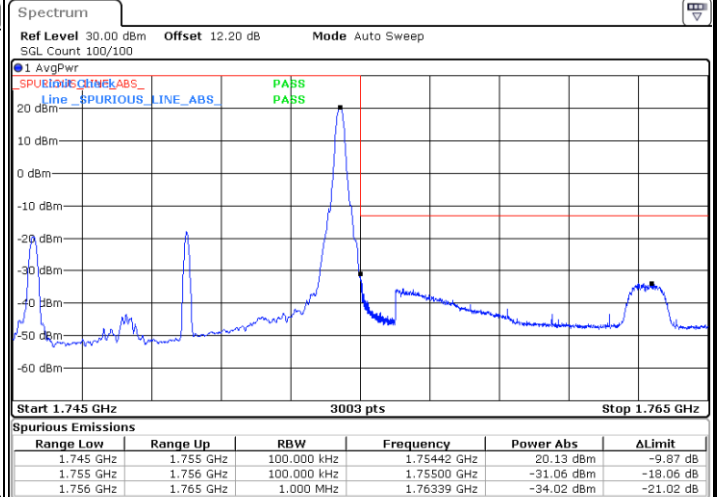


LTE Band 4 / 10MHz / QPSK

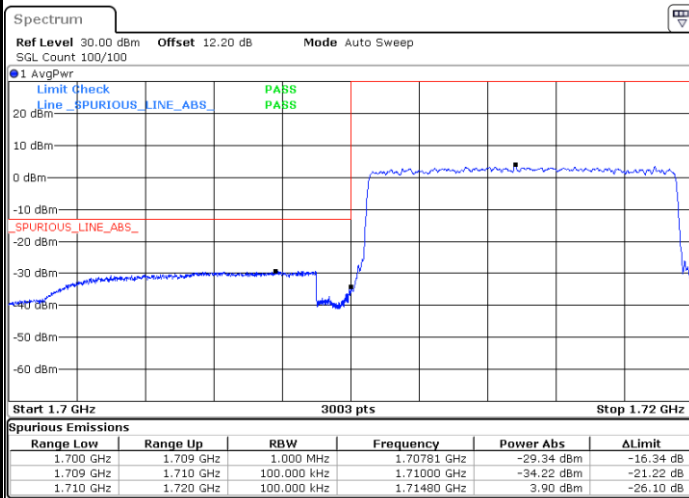
Lowest Band Edge / 1 RB



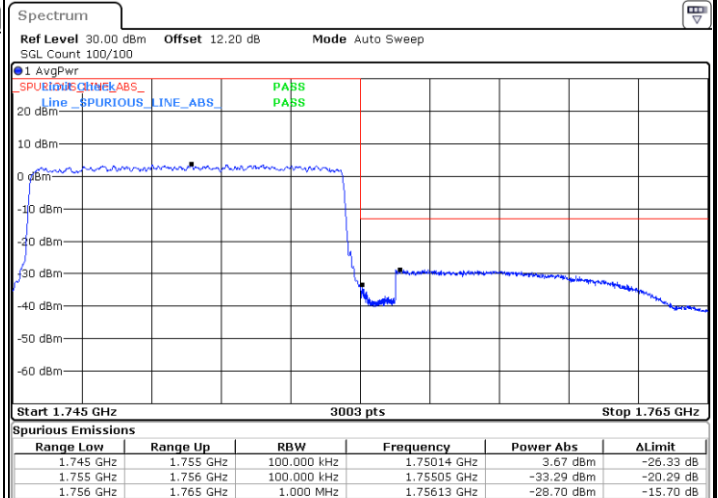
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



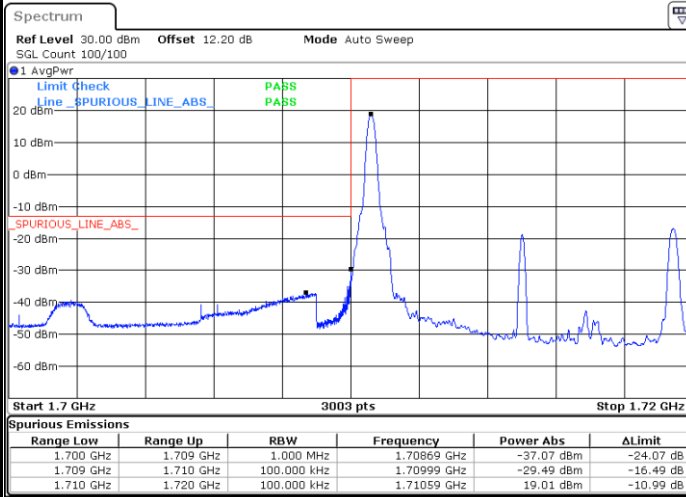
Highest Band Edge / Full RB



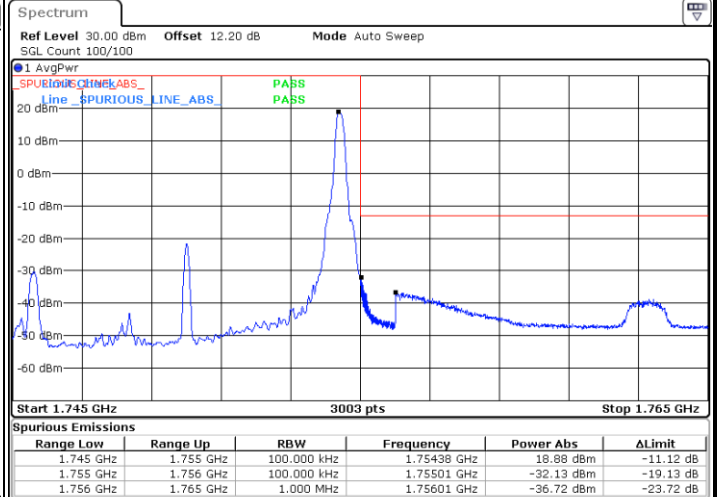


LTE Band 4 / 10MHz / 16QAM

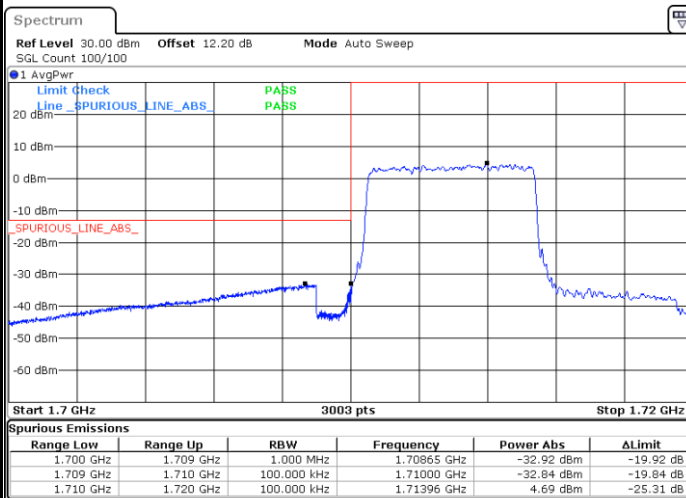
Lowest Band Edge / 1 RB



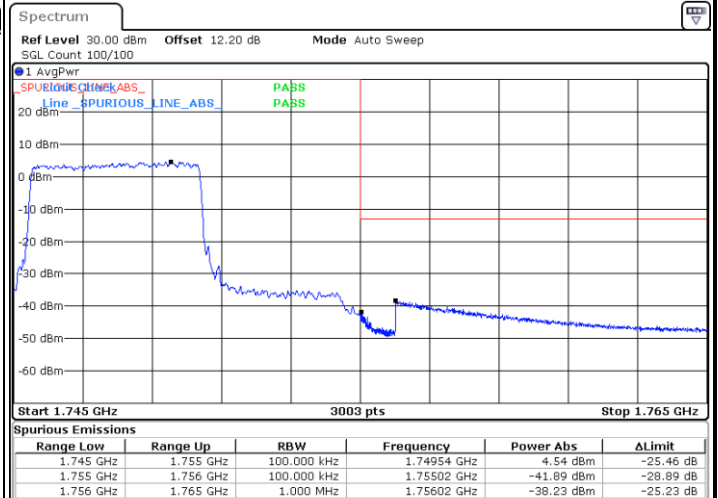
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



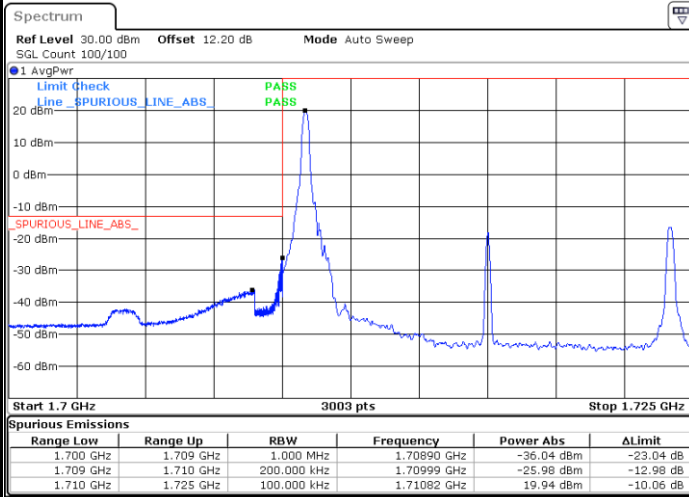
Highest Band Edge / Full RB



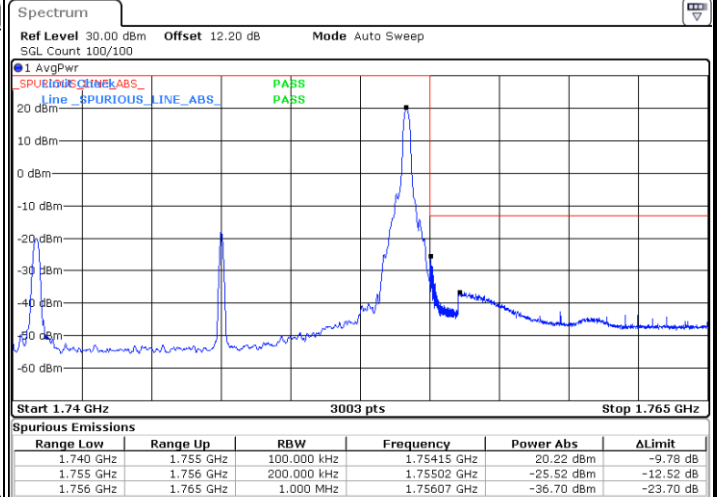


LTE Band 4 / 15MHz / QPSK

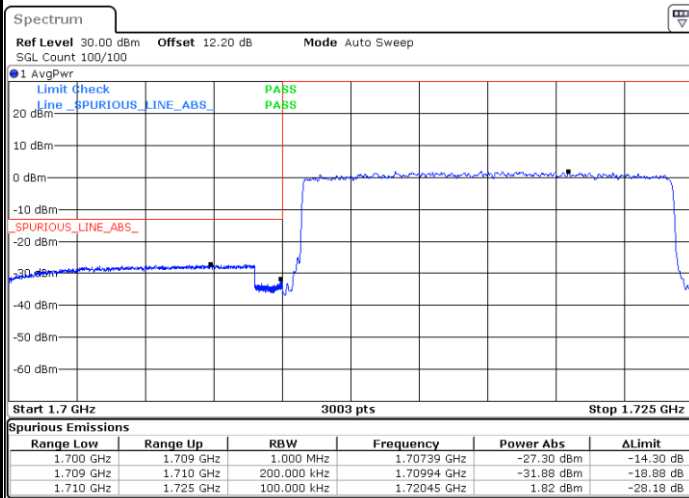
Lowest Band Edge / 1 RB



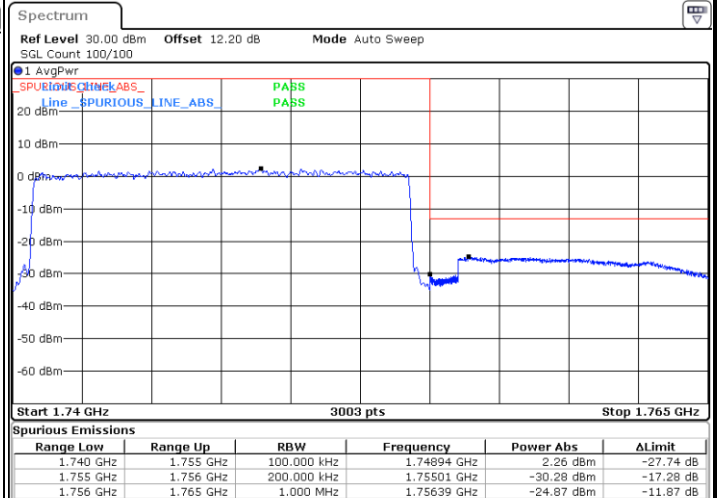
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



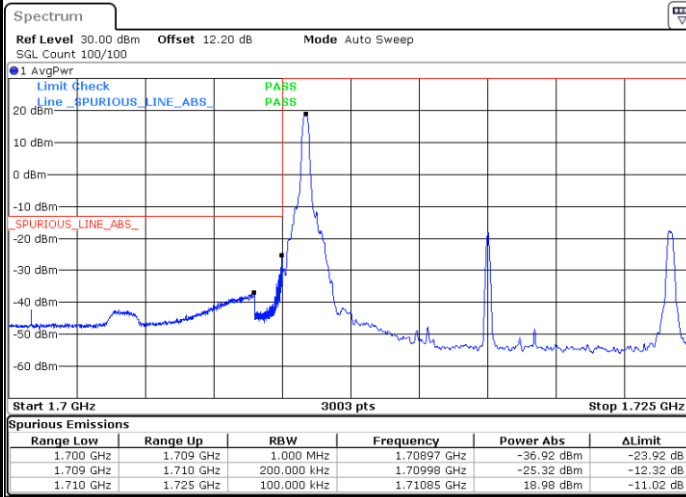
Highest Band Edge / Full RB



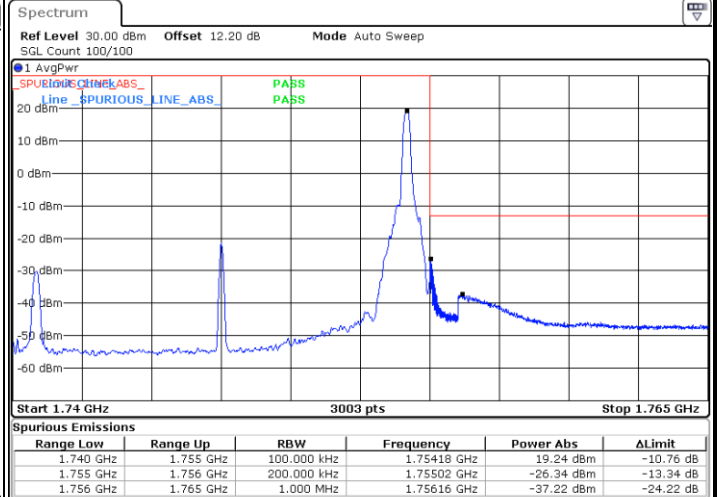


LTE Band 4 / 15MHz / 16QAM

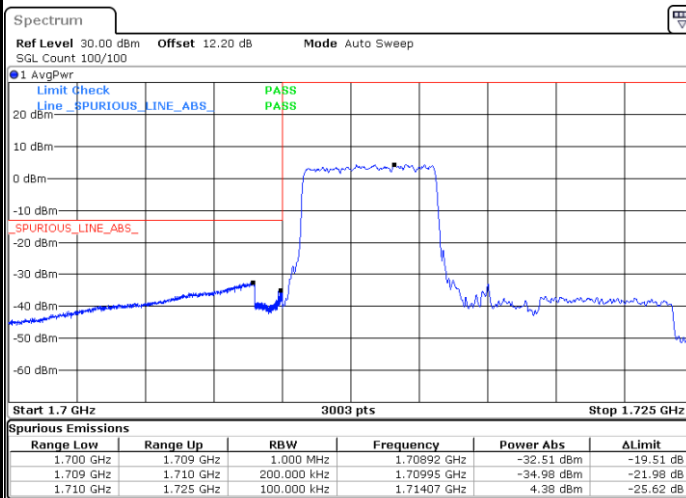
Lowest Band Edge / 1 RB



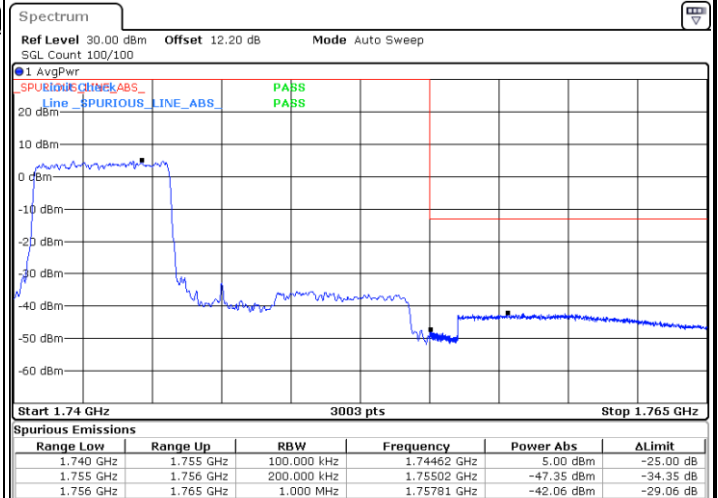
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



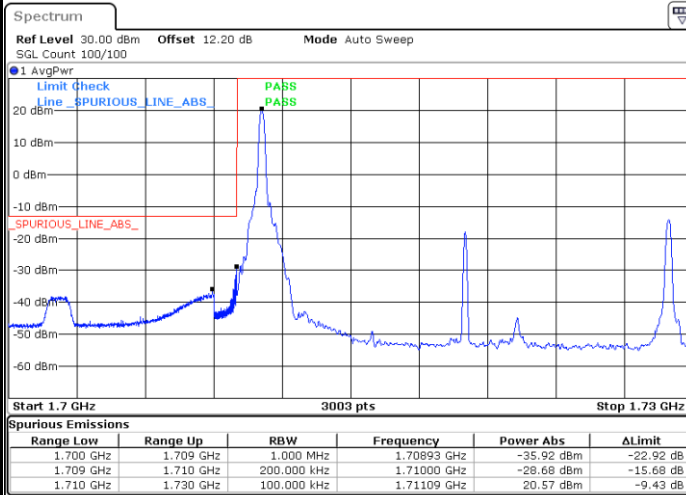
Highest Band Edge / Full RB



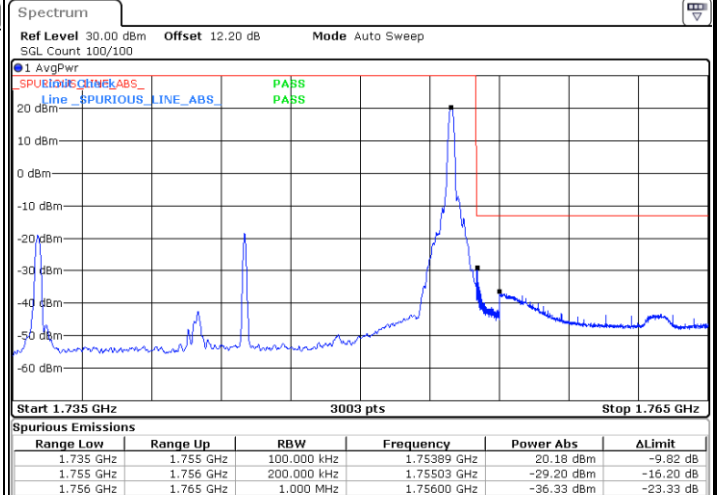


LTE Band 4 / 20MHz / QPSK

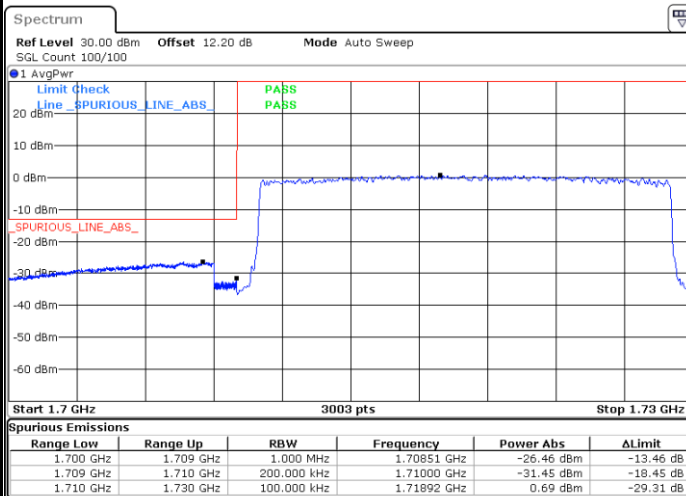
Lowest Band Edge / 1 RB



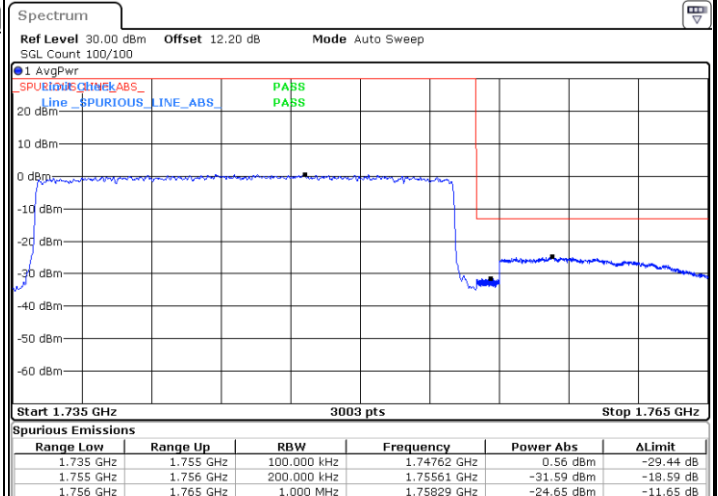
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



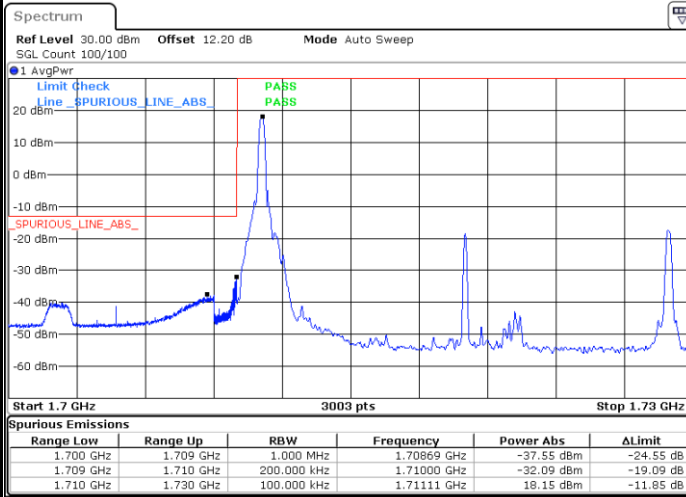
Highest Band Edge / Full RB



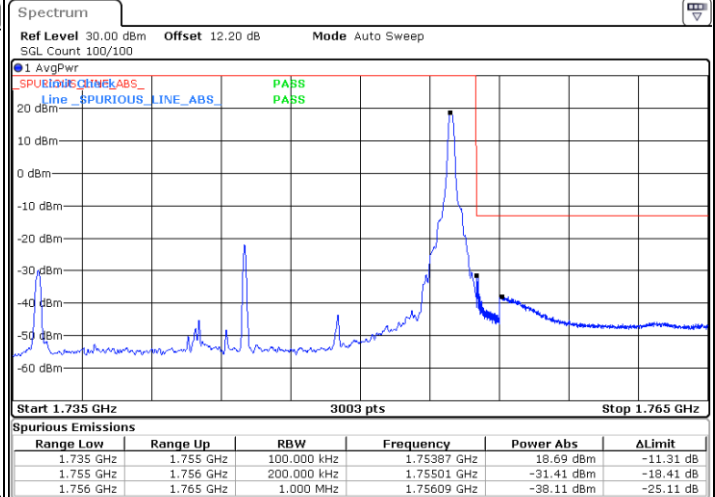


LTE Band 4 / 20MHz / 16QAM

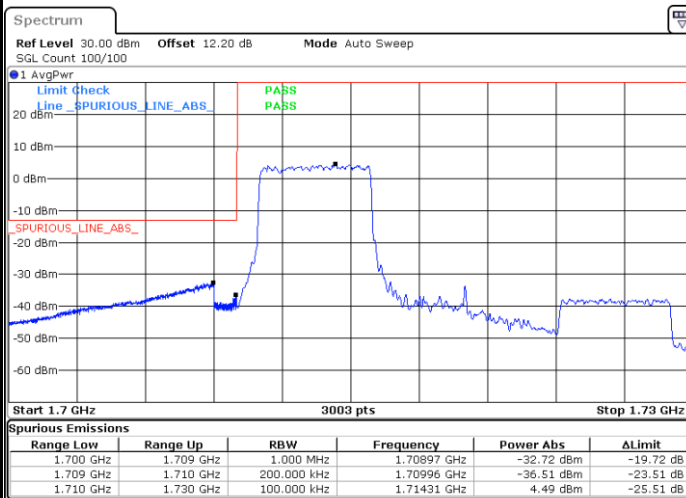
Lowest Band Edge / 1 RB



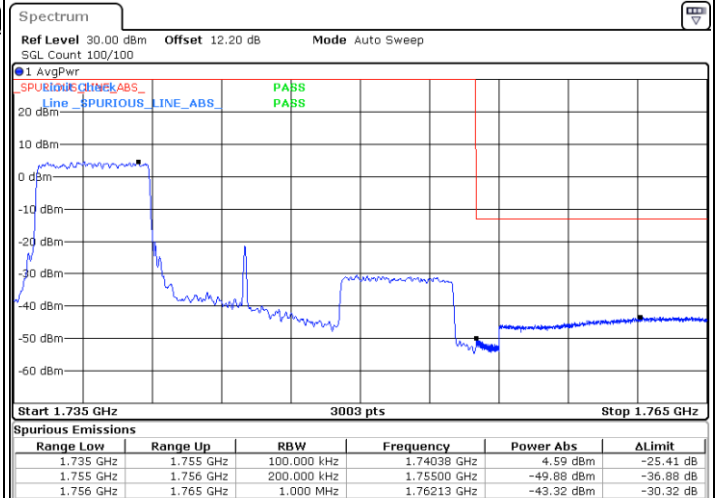
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

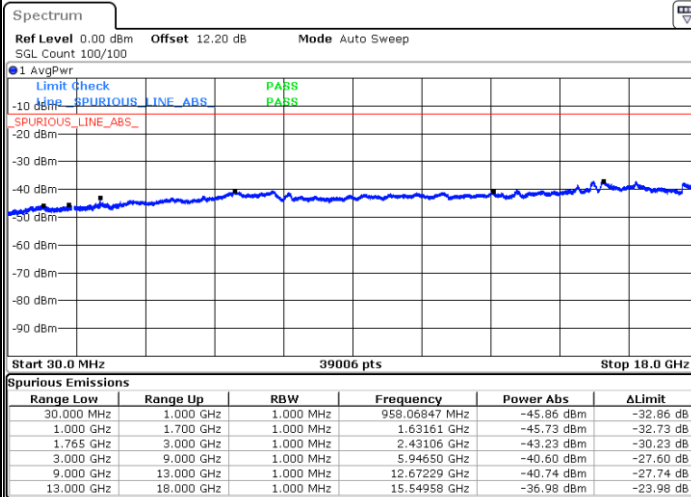




Conducted Spurious Emission

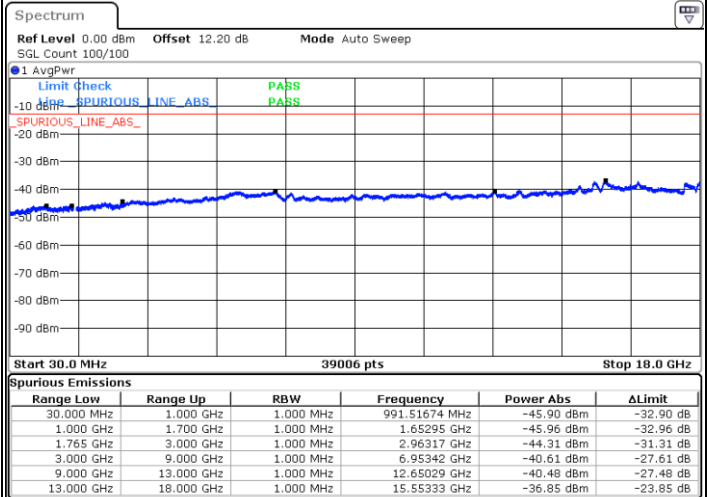
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



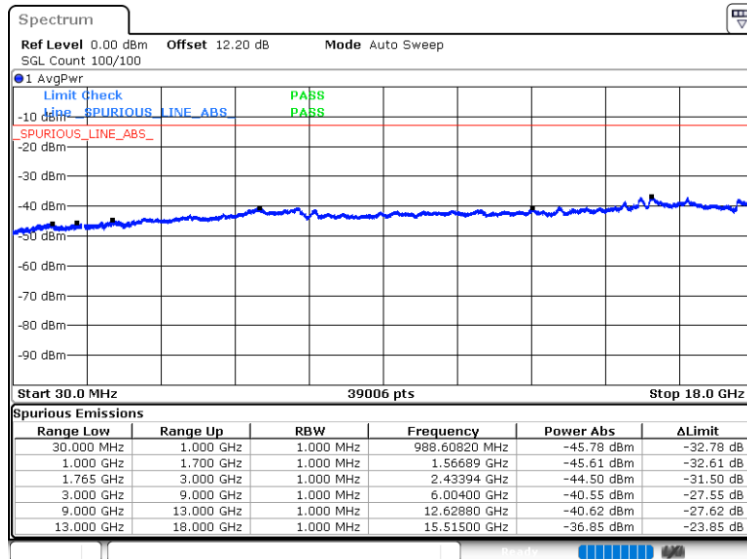
Date: 12.NOV.2021 20:06:44

Middle Channel / QPSK



Date: 12.NOV.2021 20:09:15

Highest Channel / QPSK

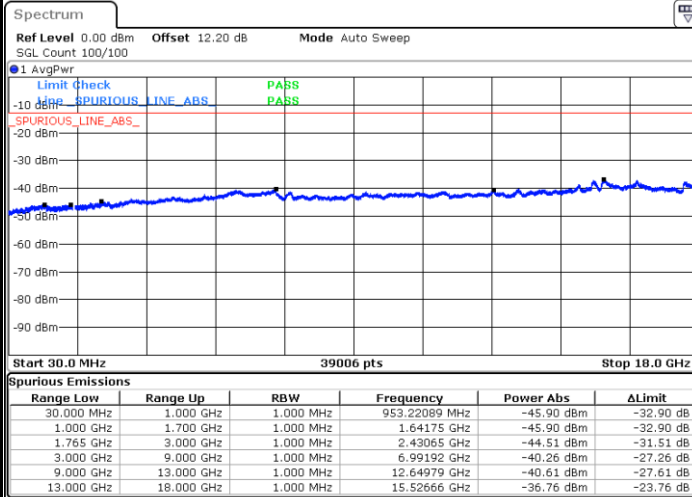


Date: 12.NOV.2021 20:12:45



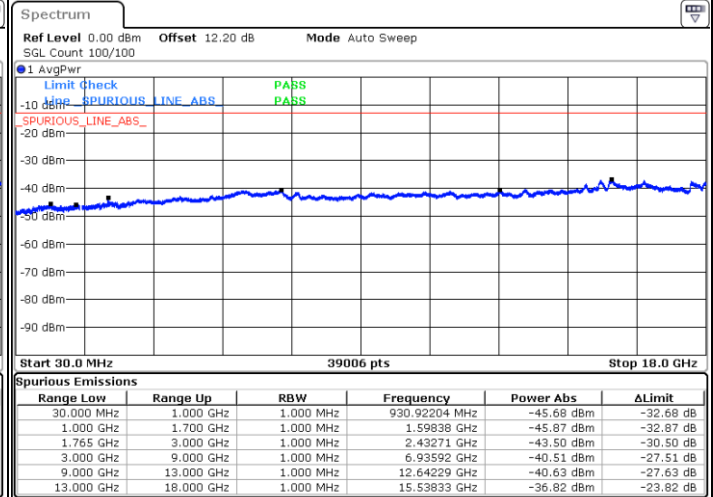
LTE Band 4 / 3MHz

Lowest Channel / QPSK



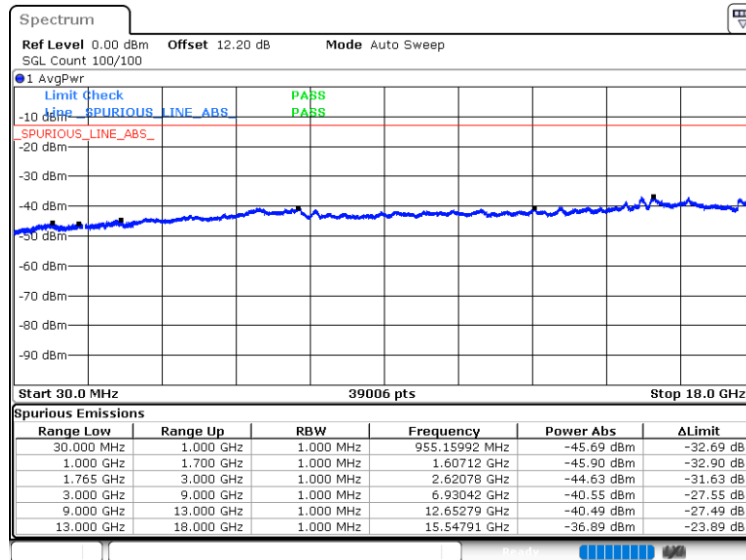
Date: 12.NOV.2021 20:16:16

Middle Channel / QPSK



Date: 12.NOV.2021 20:18:47

Highest Channel / QPSK

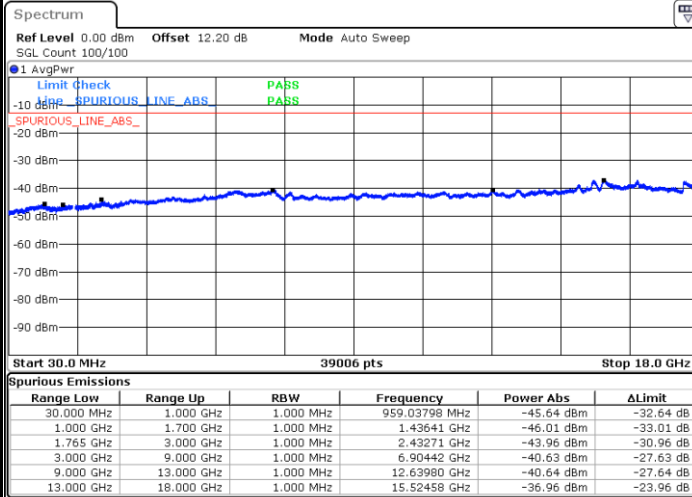


Date: 12.NOV.2021 20:22:18



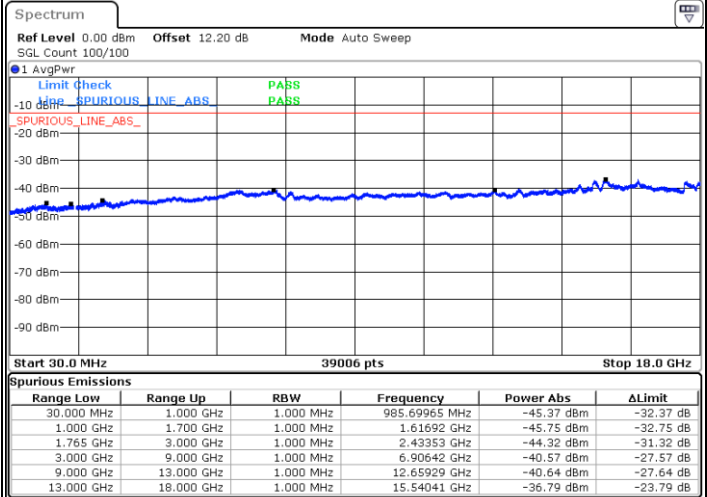
LTE Band 4 / 5MHz

Lowest Channel / QPSK



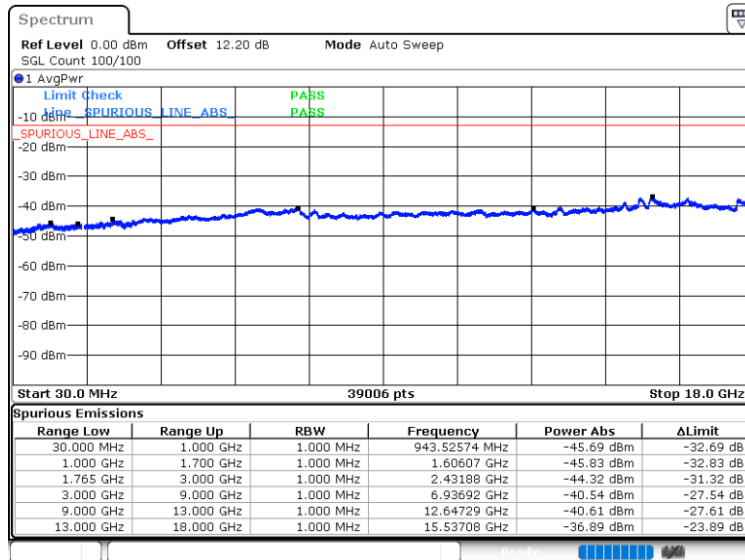
Date: 12.NOV.2021 20:25:49

Middle Channel / QPSK



Date: 12.NOV.2021 20:28:20

Highest Channel / QPSK

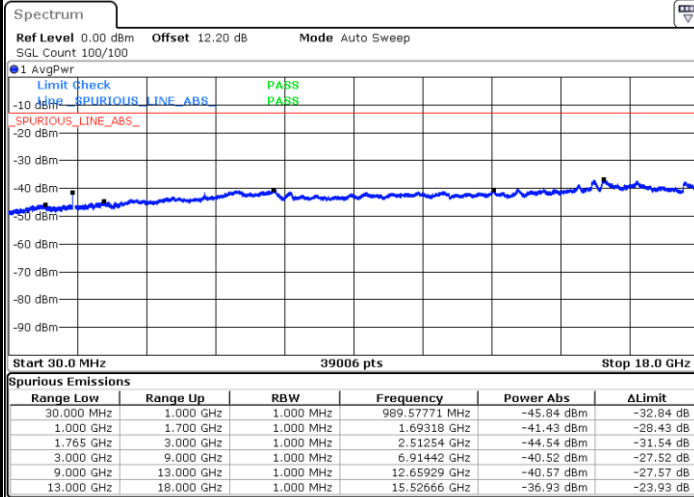


Date: 12.NOV.2021 20:31:51



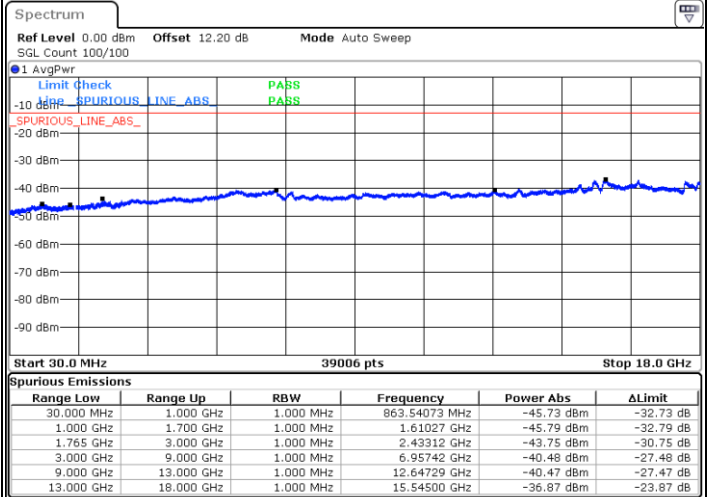
LTE Band 4 / 10MHz

Lowest Channel / QPSK



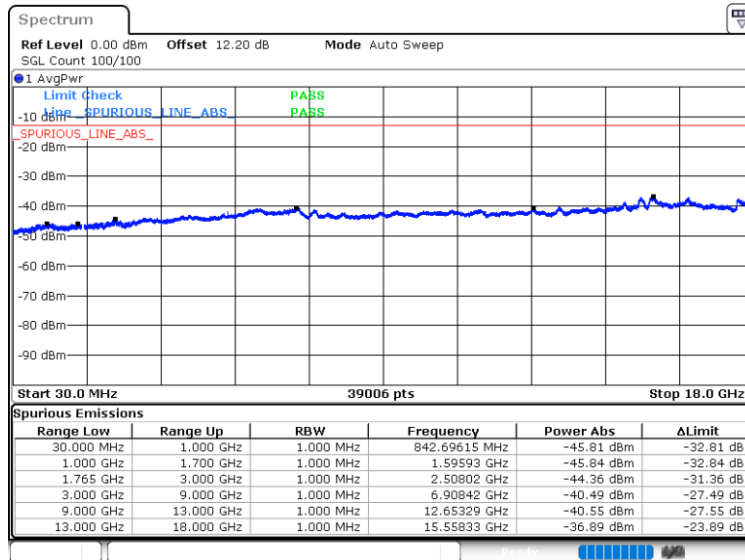
Date: 12.NOV.2021 20:34:06

Middle Channel / QPSK



Date: 12.NOV.2021 20:35:42

Highest Channel / QPSK

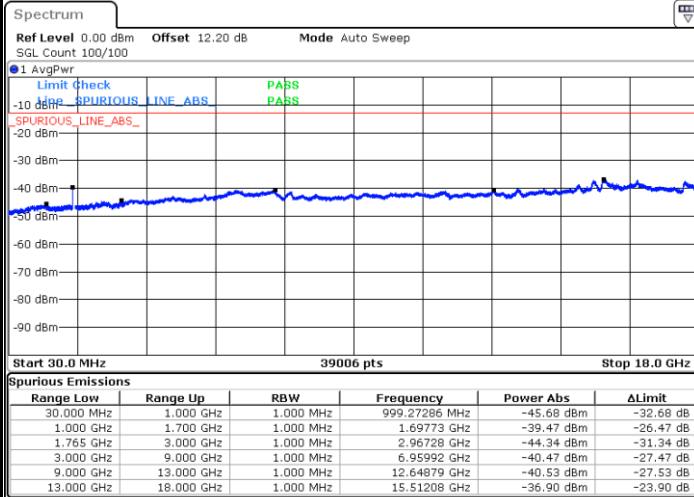


Date: 12.NOV.2021 20:37:56



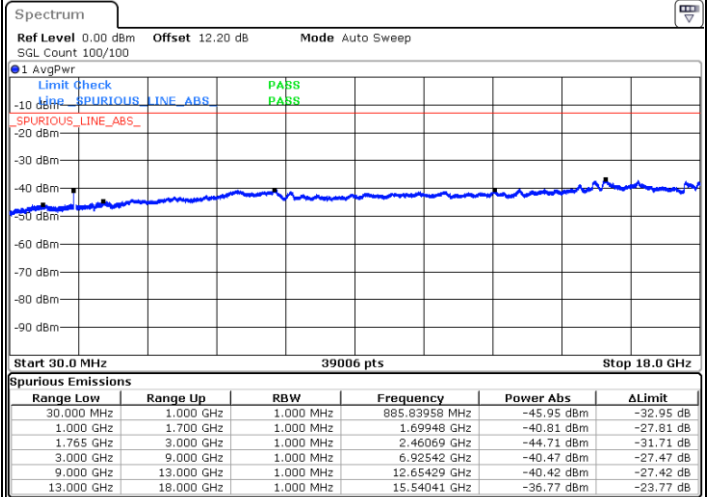
LTE Band 4 / 15MHz

Lowest Channel / QPSK



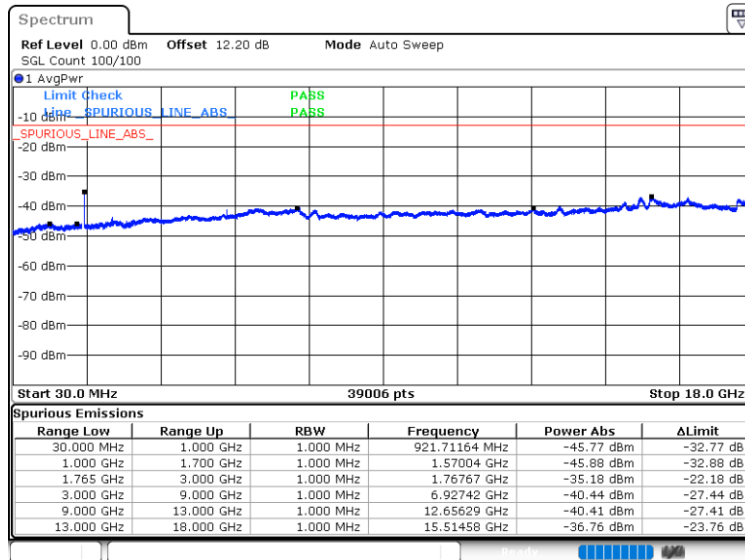
Date: 12.NOV.2021 20:40:11

Middle Channel / QPSK



Date: 12.NOV.2021 20:41:47

Highest Channel / QPSK

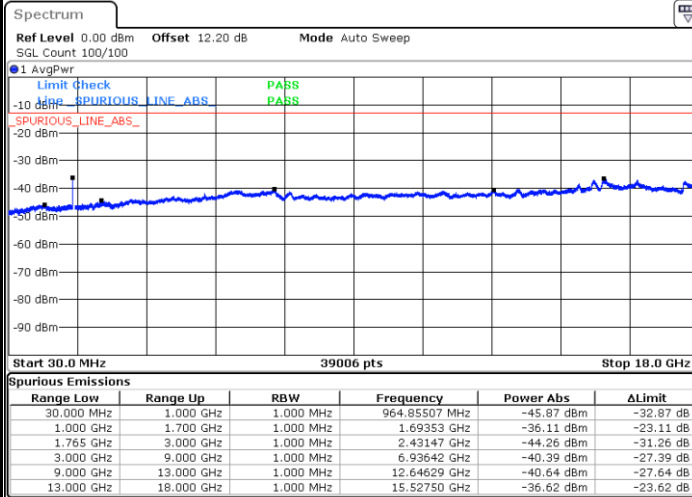


Date: 12.NOV.2021 20:44:01



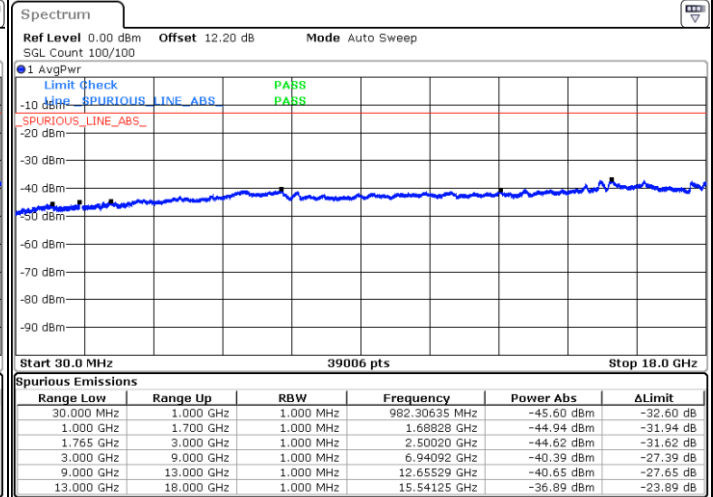
LTE Band 4 / 20MHz

Lowest Channel / QPSK



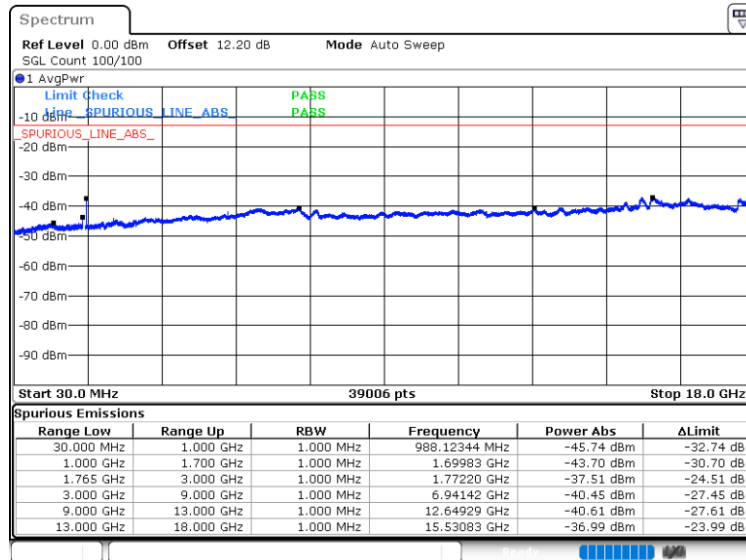
Date: 12.NOV.2021 20:46:17

Middle Channel / QPSK



Date: 12.NOV.2021 20:47:53

Highest Channel / QPSK



Date: 12.NOV.2021 20:50:08

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0063	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0096	
0	Normal Voltage	0.0094	
-10	Normal Voltage	0.0076	
-20	Normal Voltage	0.0039	
-30	Normal Voltage	0.0042	
20	Maximum Voltage	0.0080	
20	Normal Voltage	0.0034	
20	Battery End Point	0.0074	

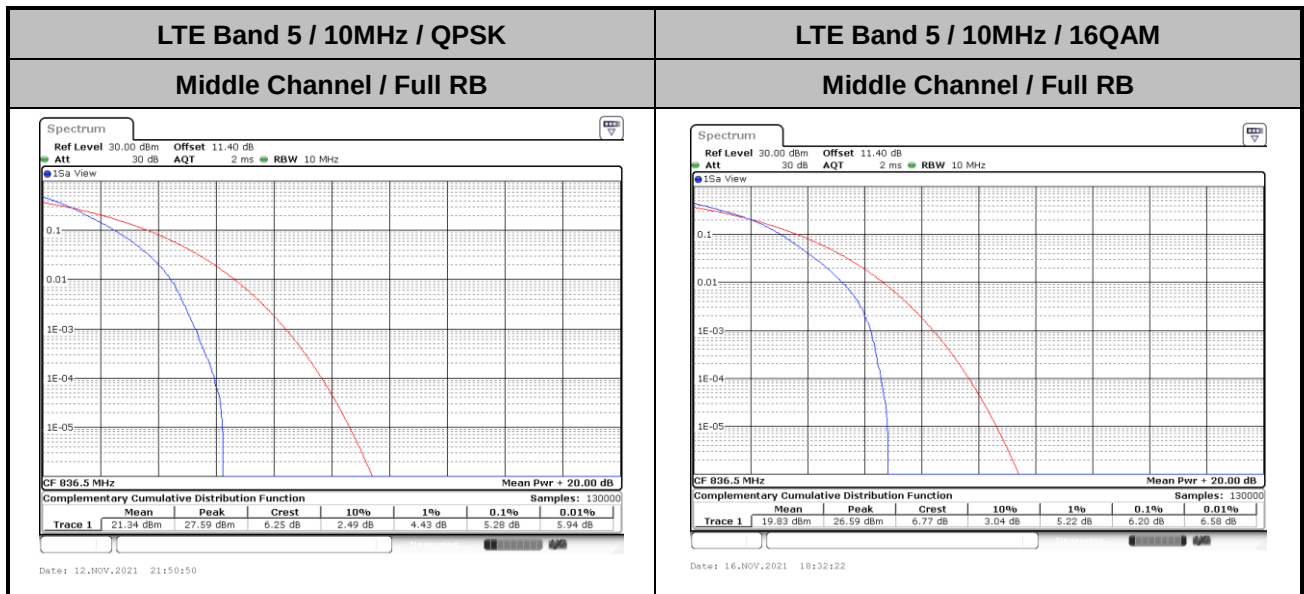
Note:

1. Normal Voltage =12 V. ; Battery End Point (BEP) =11.4 V. ; Maximum Voltage =12.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.28	6.20	-	-	PASS





26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.26	1.28	3.03	2.98	4.83	4.89	9.93	5.75	-	-	-	-