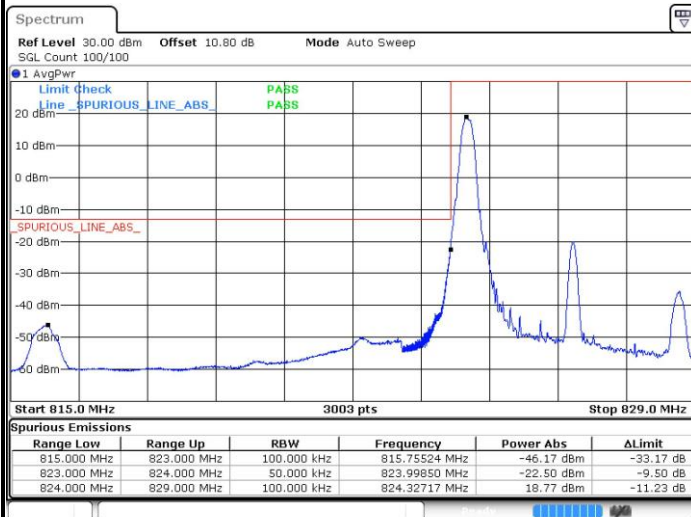


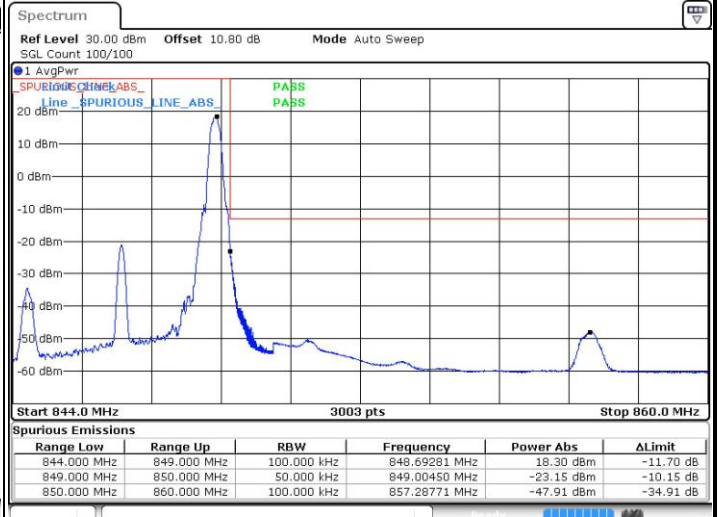


LTE Band 5 / 5MHz / 16QAM

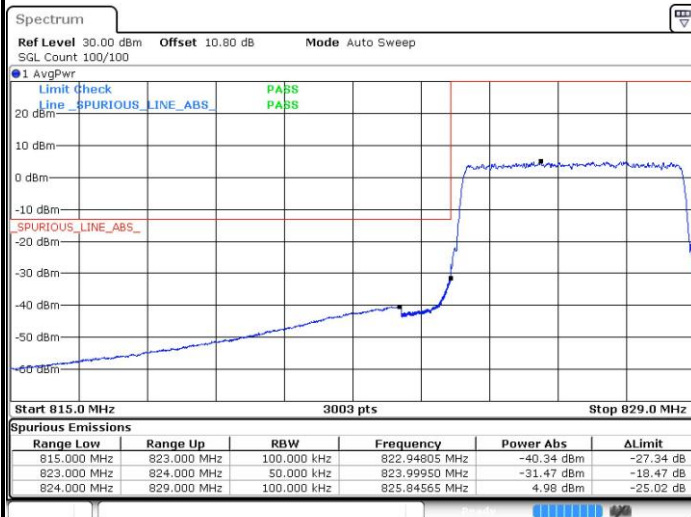
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



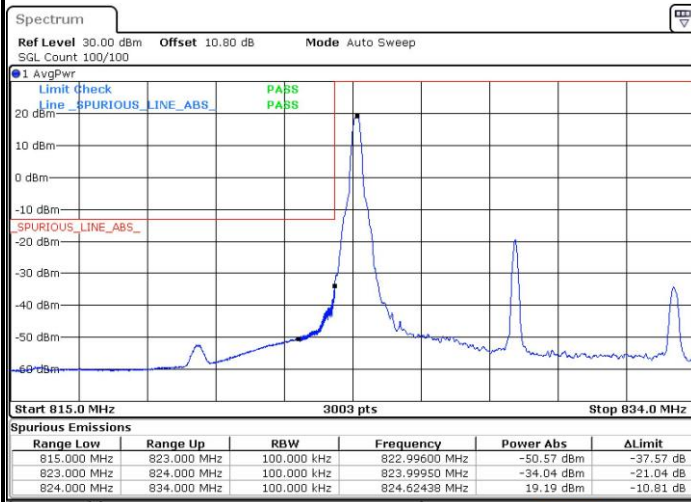
Highest Band Edge / Full RB



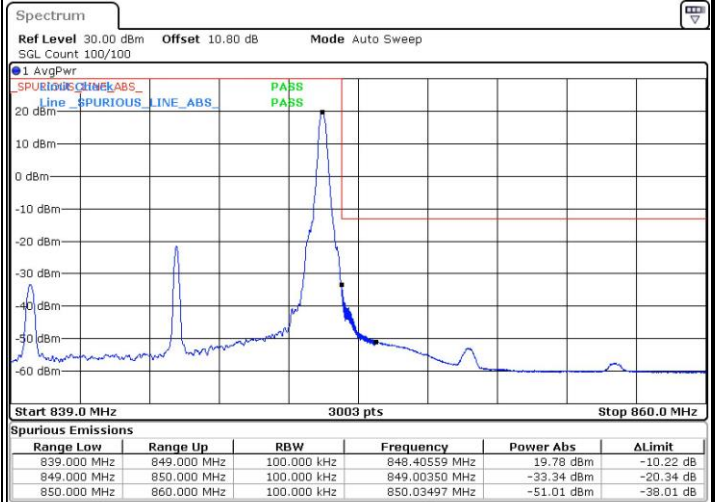


LTE Band 5 / 10MHz / QPSK

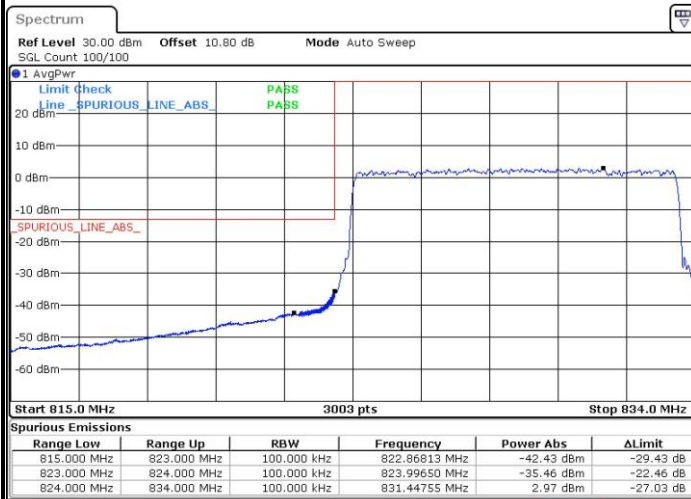
Lowest Band Edge / 1 RB



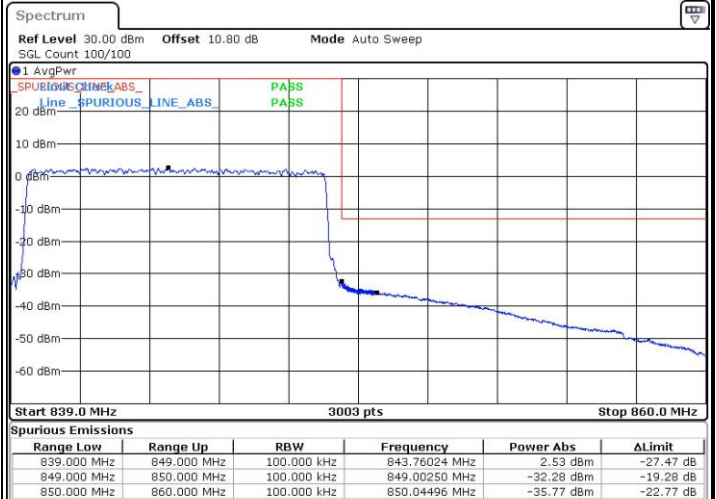
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



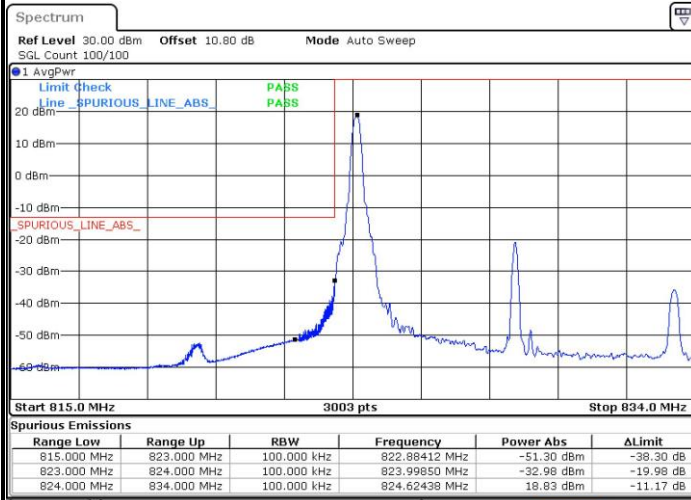
Highest Band Edge / Full RB



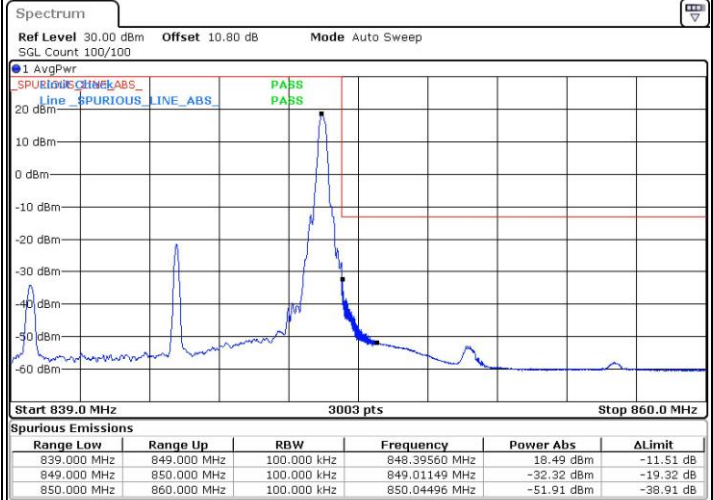


LTE Band 5 / 10MHz / 16QAM

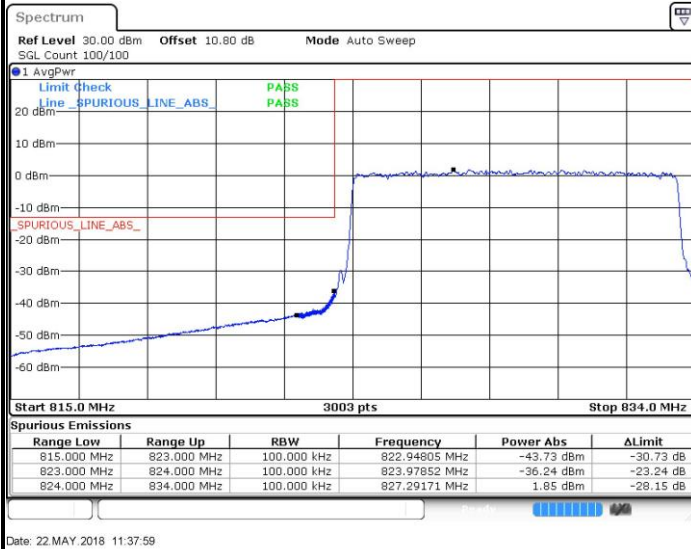
Lowest Band Edge / 1 RB



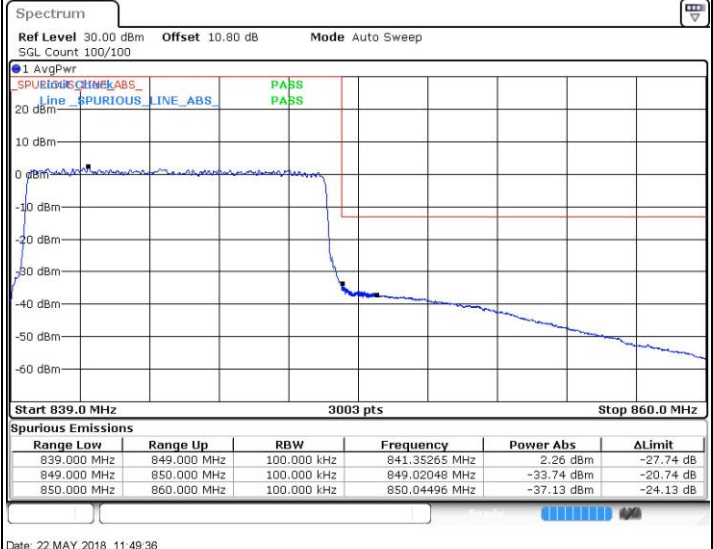
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



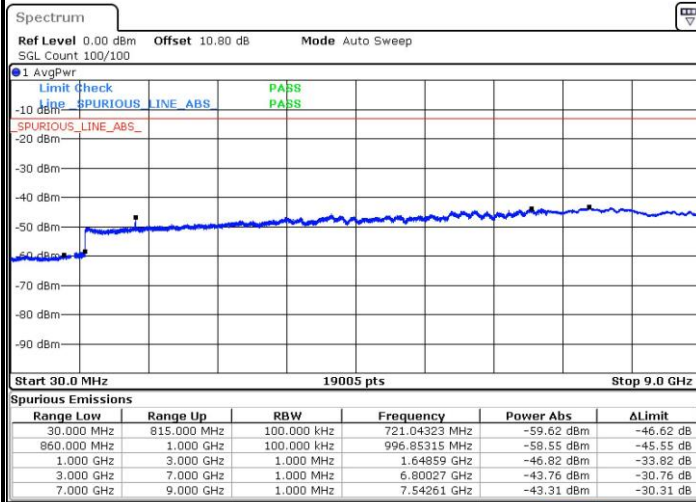


Conducted Spurious Emission



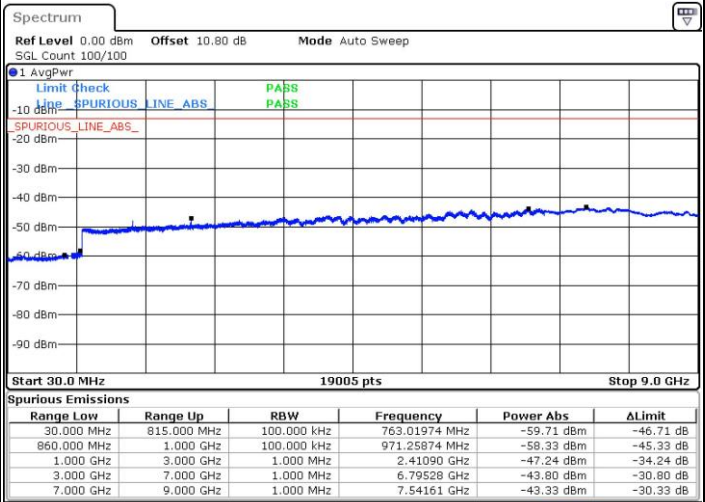
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



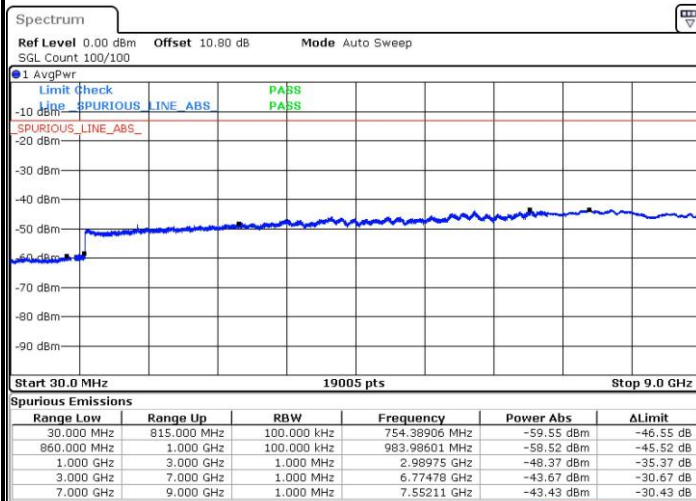
Date: 22 MAY 2018 12:07:40

Lowest Channel / 16QAM



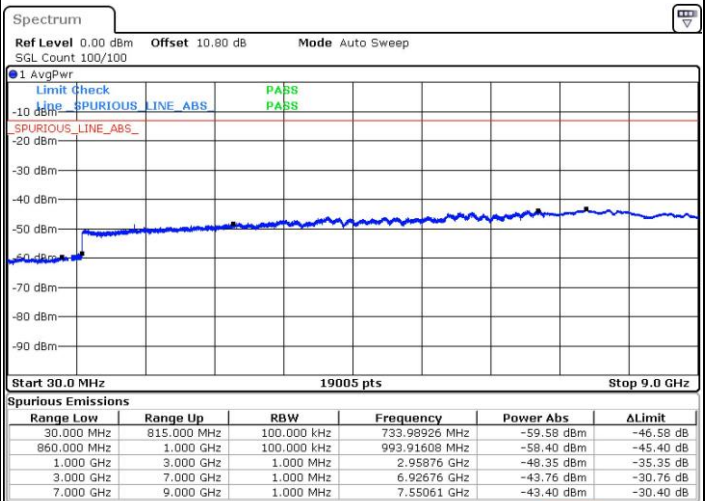
Date: 22 MAY 2018 12:08:34

Middle Channel / QPSK



Date: 22 MAY 2018 12:10:10

Middle Channel / 16QAM

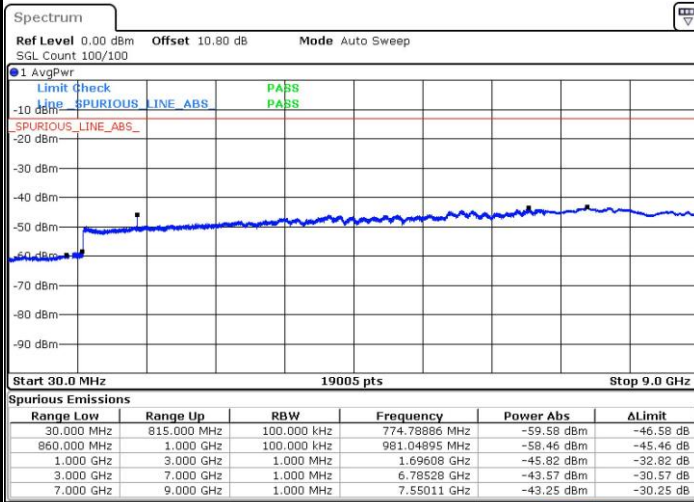


Date: 22 MAY 2018 12:11:04



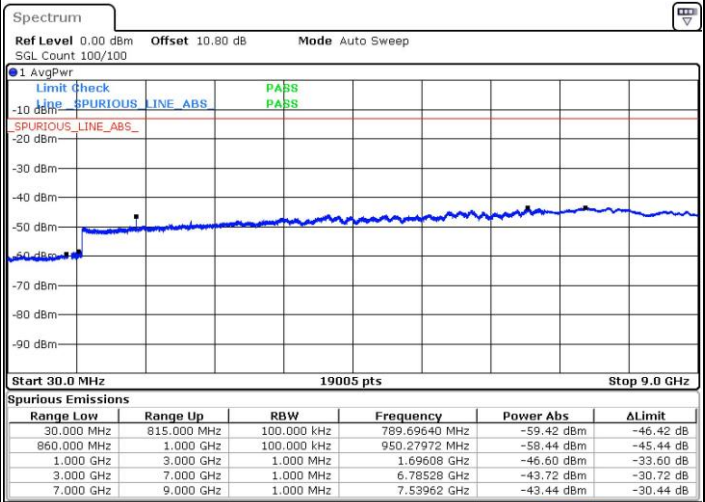
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 22 MAY 2018 12:19:17

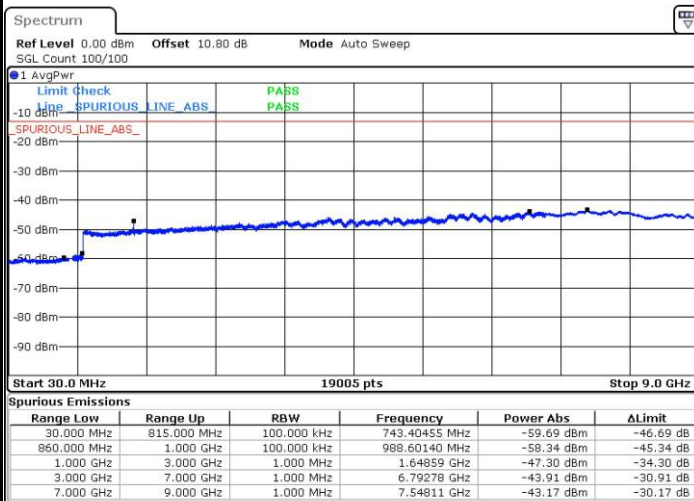
Highest Channel / 16QAM



Date: 22 MAY 2018 12:20:11

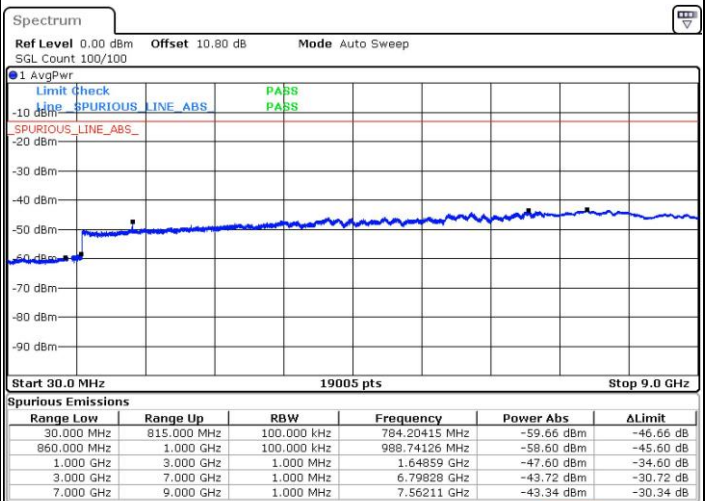
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 22 MAY 2018 10:57:25

Lowest Channel / 16QAM

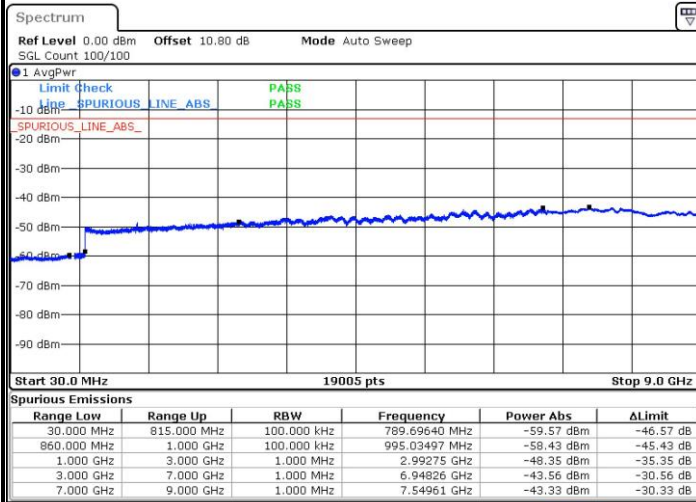


Date: 22 MAY 2018 10:58:20



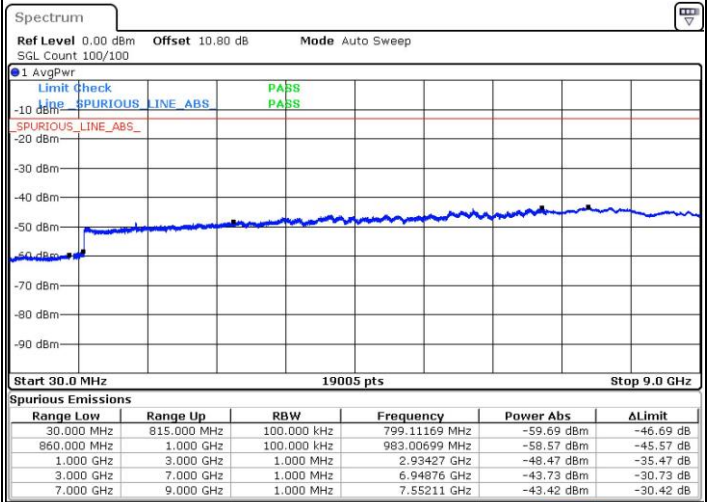
LTE Band 5 / 3MHz

Middle Channel / QPSK



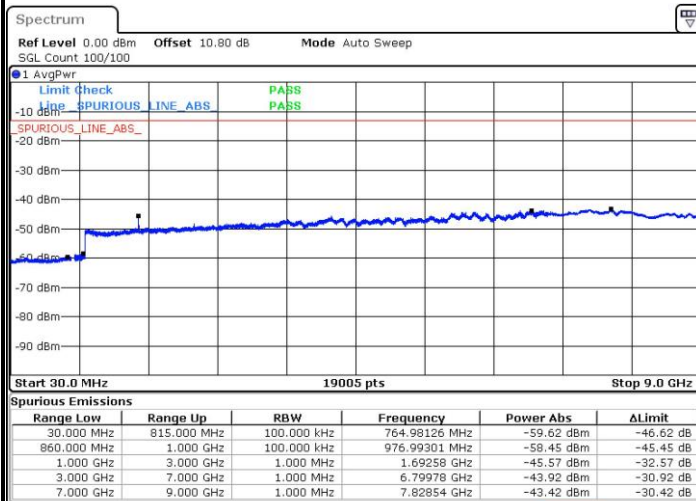
Date: 22 MAY 2018 10:59:56

Middle Channel / 16QAM



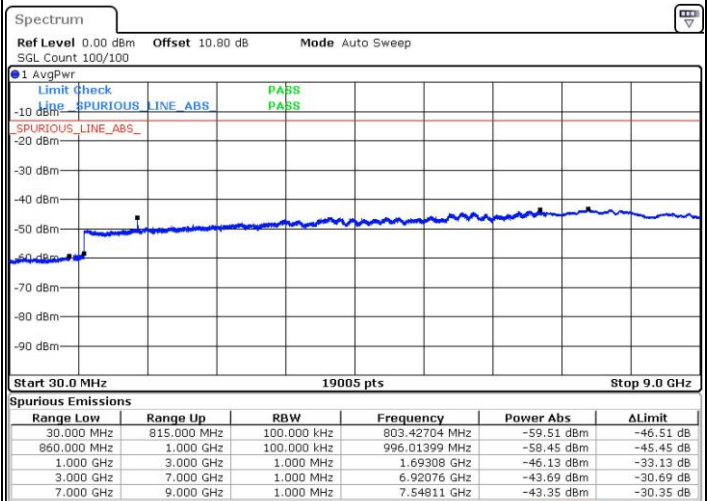
Date: 22 MAY 2018 11:00:50

Highest Channel / QPSK



Date: 22 MAY 2018 11:09:03

Highest Channel / 16QAM

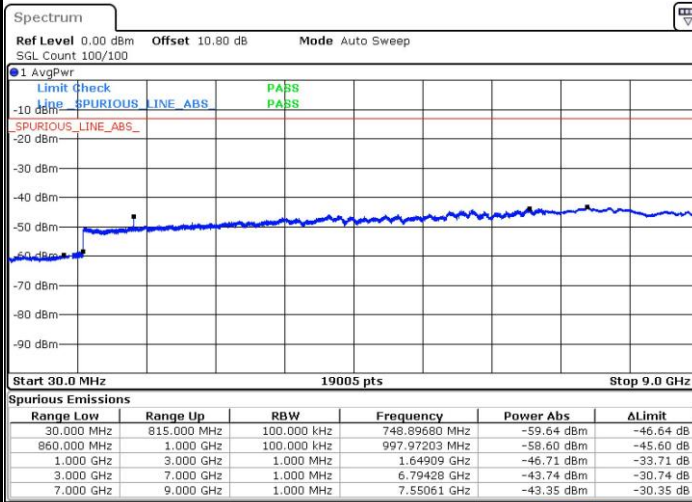


Date: 22 MAY 2018 11:09:57



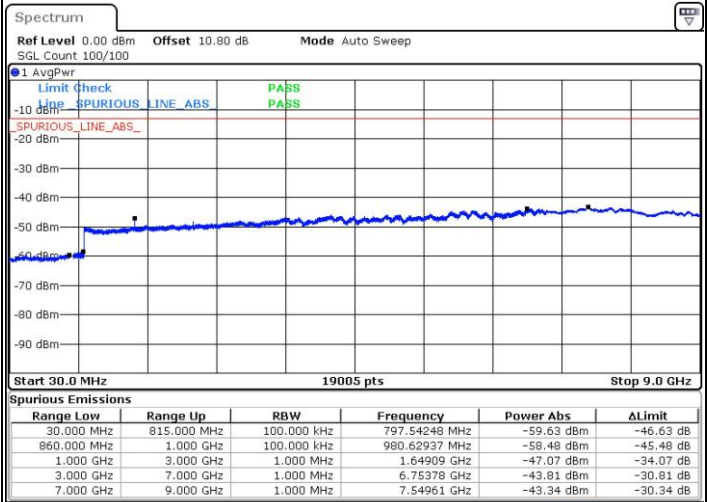
LTE Band 5 / 5MHz

Lowest Channel / QPSK



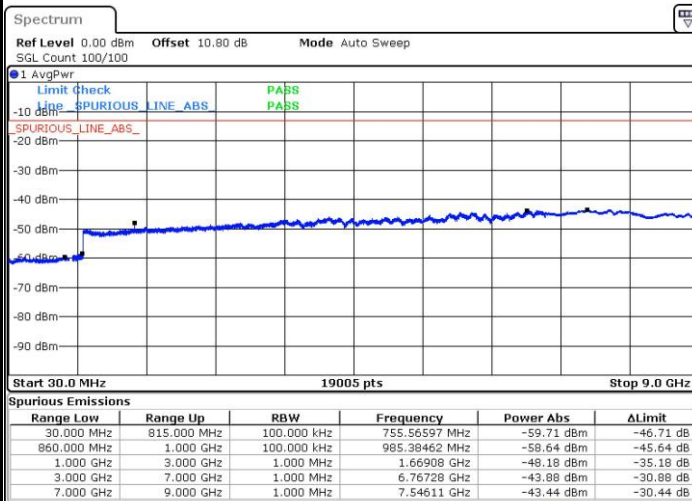
Date: 22 MAY 2018 11:18:10

Lowest Channel / 16QAM



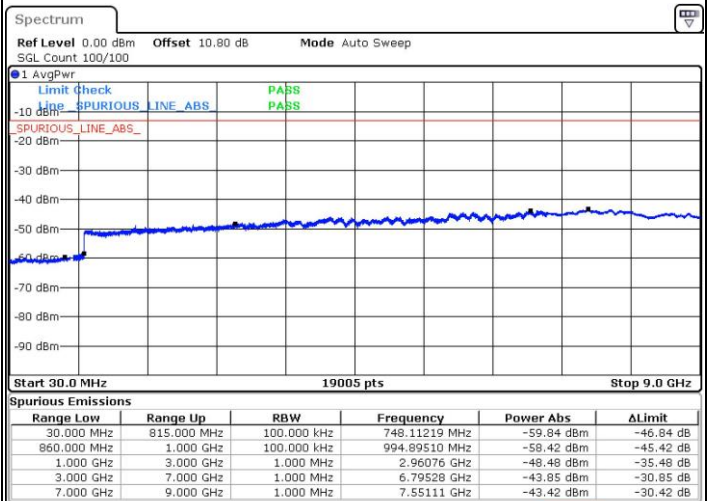
Date: 22 MAY 2018 11:19:04

Middle Channel / QPSK



Date: 22 MAY 2018 11:20:40

Middle Channel / 16QAM

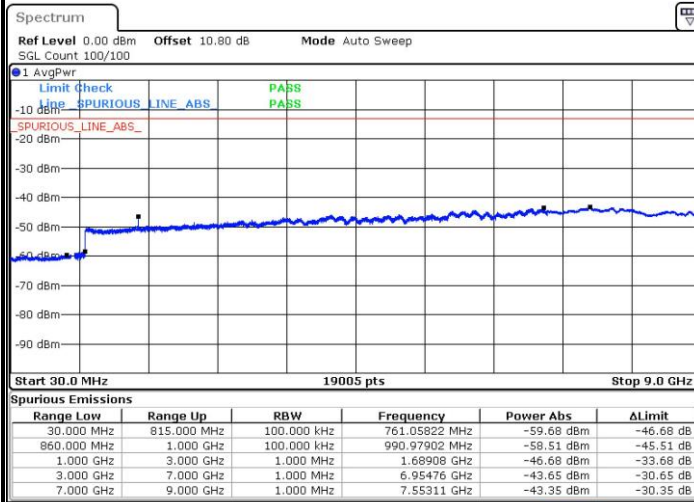


Date: 22 MAY 2018 11:21:34



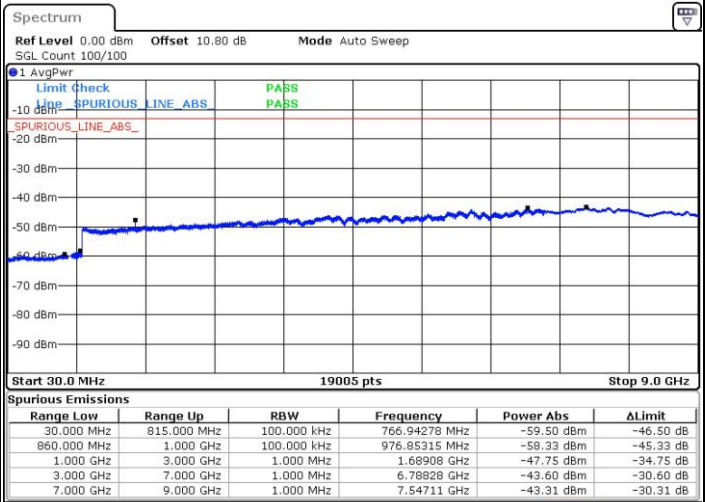
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 22 MAY 2018 11:29:47

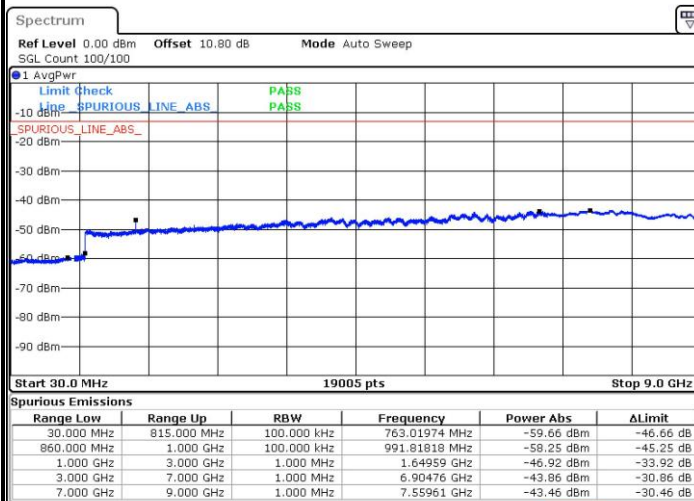
Highest Channel / 16QAM



Date: 22 MAY 2018 11:30:41

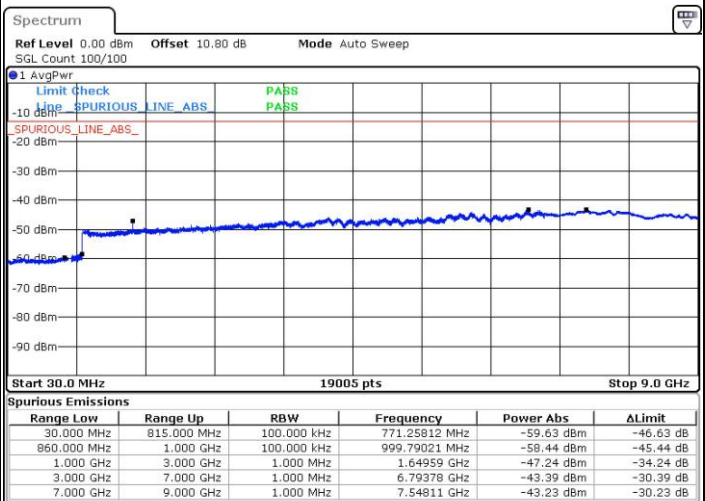
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 22 MAY 2018 11:38:54

Lowest Channel / 16QAM

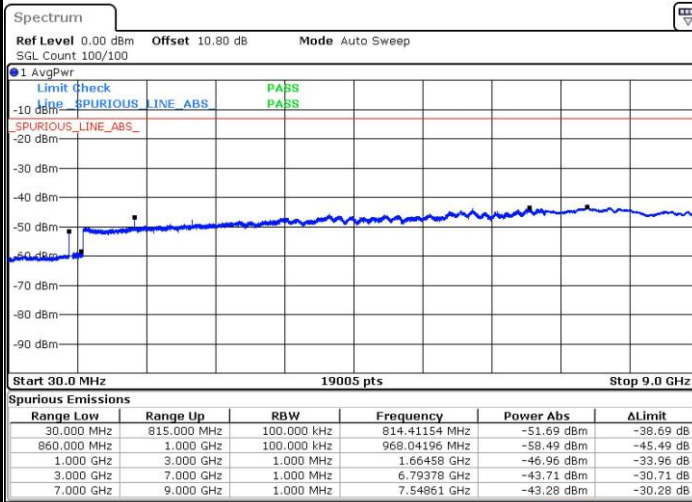


Date: 22 MAY 2018 11:39:48



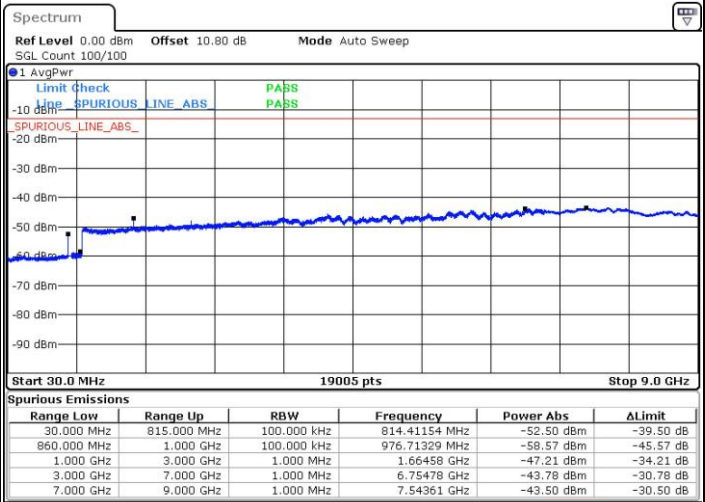
LTE Band 5 / 10MHz

Middle Channel / QPSK



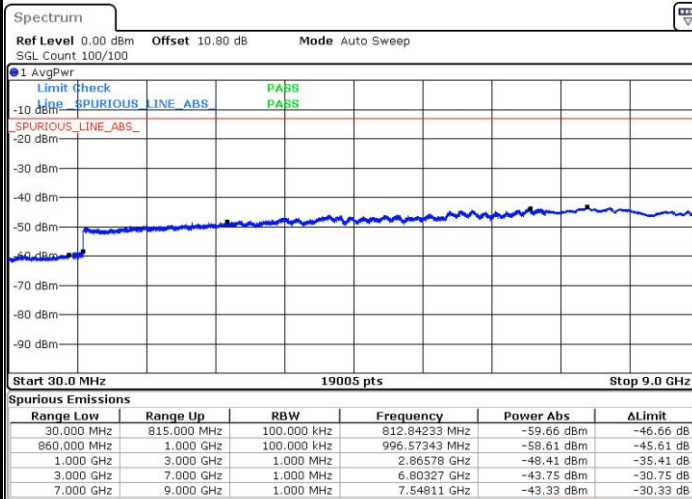
Date: 22 MAY 2018 11:41:24

Middle Channel / 16QAM



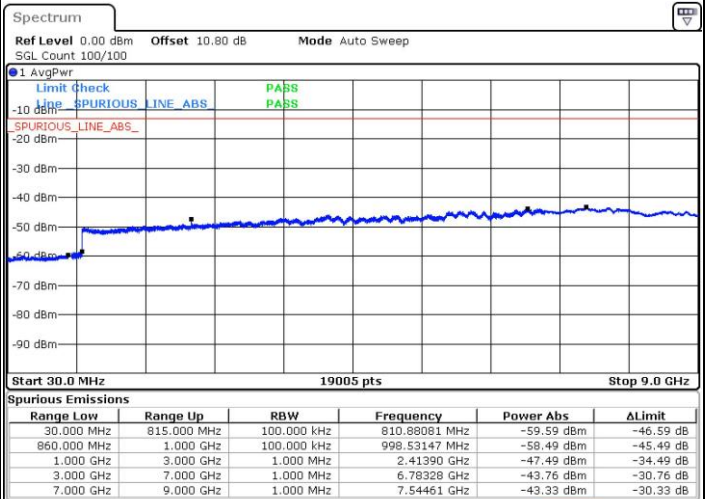
Date: 22 MAY 2018 11:42:18

Highest Channel / QPSK



Date: 22 MAY 2018 11:50:31

Highest Channel / 16QAM



Date: 22 MAY 2018 11:51:26

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0041	
-10	Normal Voltage	0.0054	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0020	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

1. Normal Voltage =230 V. ; Battery End Point (BEP) =207 V. ; Maximum Voltage =253 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

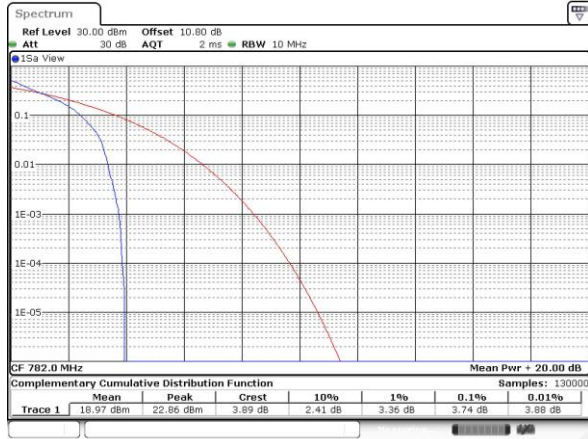
**LTE Band 13****Peak-to-Average Ratio**

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.74	5.1	4.26	5.77	
Highest CH	-	-	-	-	

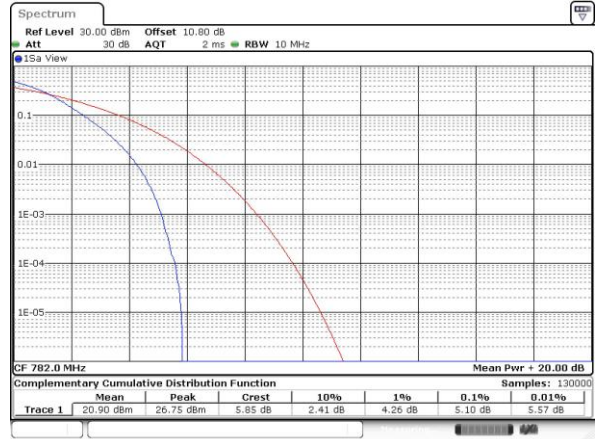


LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB

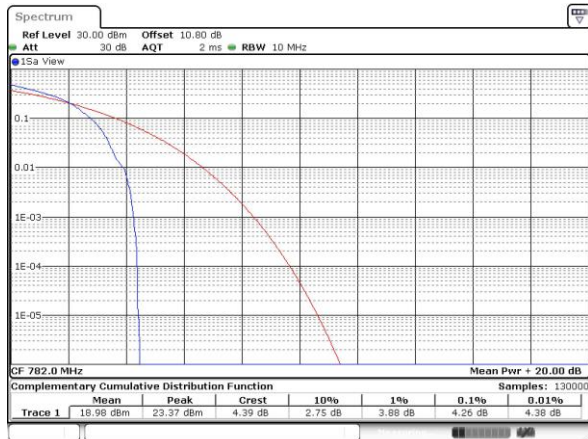


Middle Channel / Full RB

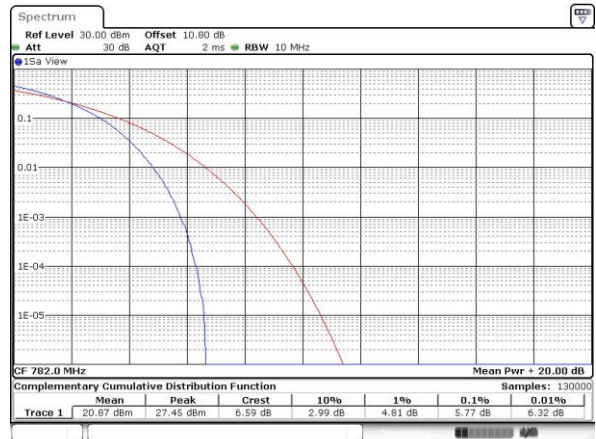


LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Middle Channel / Full RB



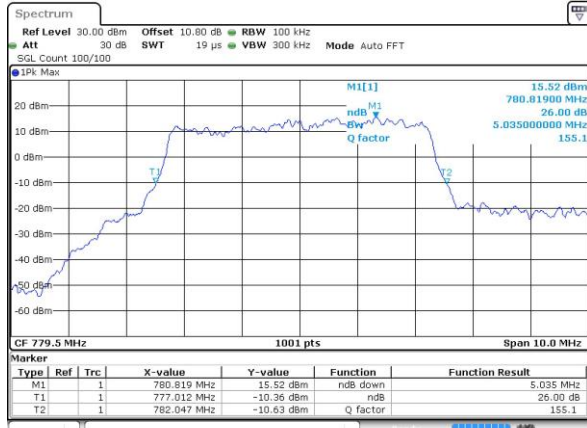
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.04	4.98	-	-	-	-	-	-
Middle CH	-	-	-	-	5.10	5.02	9.85	9.91	-	-	-	-
Highest CH	-	-	-	-	5.02	5.02	-	-	-	-	-	-



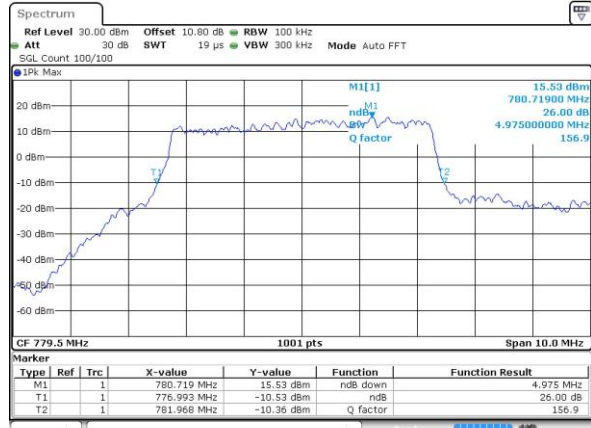
LTE Band 13

Lowest Channel / 5MHz / QPSK



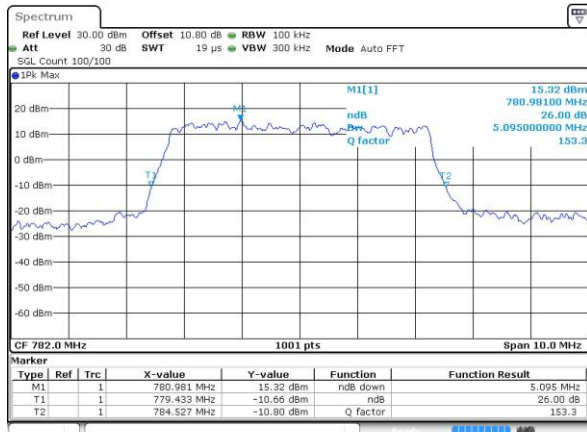
Date: 22 MAY 2018 16:16:44

Lowest Channel / 5MHz / 16QAM



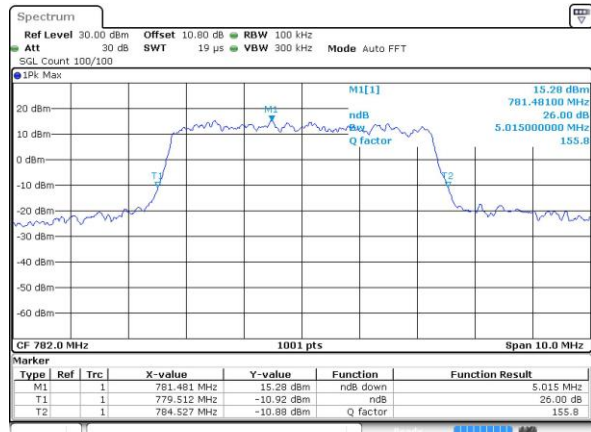
Date: 22 MAY 2018 16:16:34

Middle Channel / 5MHz / QPSK



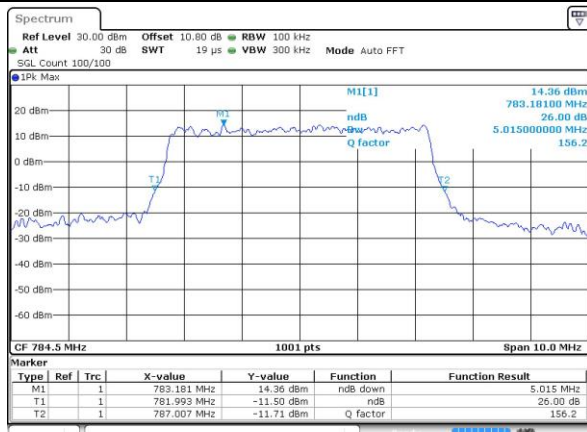
Date: 22 MAY 2018 16:27:08

Middle Channel / 5MHz / 16QAM



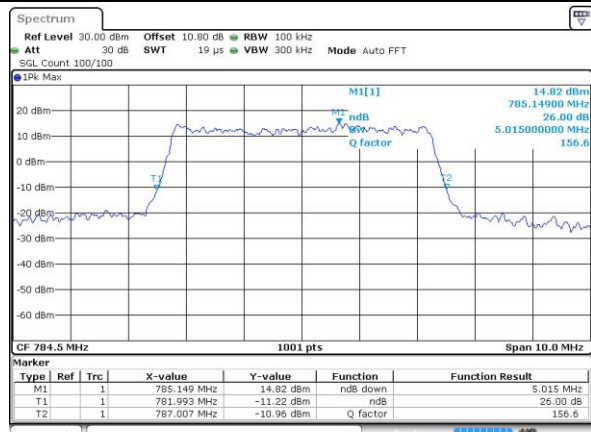
Date: 22 MAY 2018 16:27:19

Highest Channel / 5MHz / QPSK



Date: 22 MAY 2018 16:28:21

Highest Channel / 5MHz / 16QAM

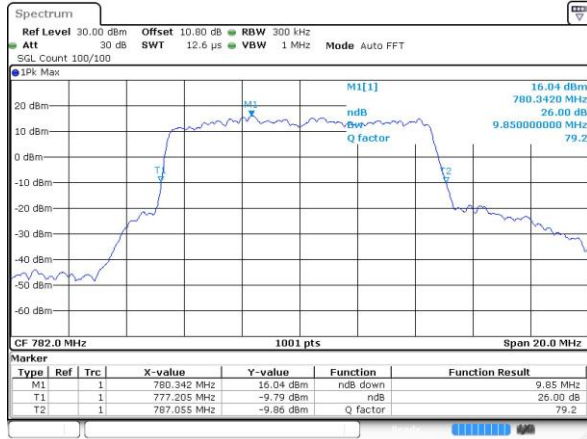


Date: 22 MAY 2018 16:28:11

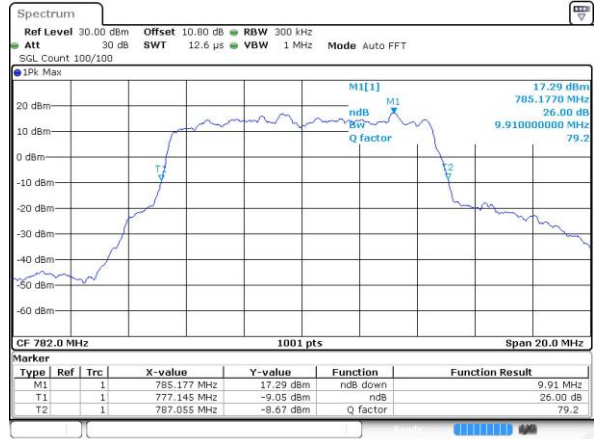


LTE Band 13

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



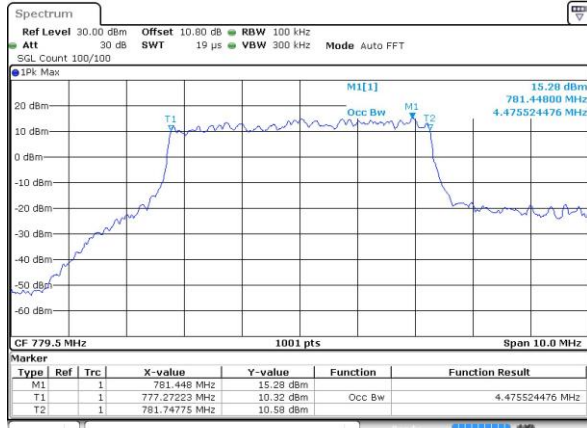
**Occupied Bandwidth**

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.51	8.89	8.97	-	-	-	-
Highest CH	-	-	-	-	4.5	4.51	-	-	-	-	-	-



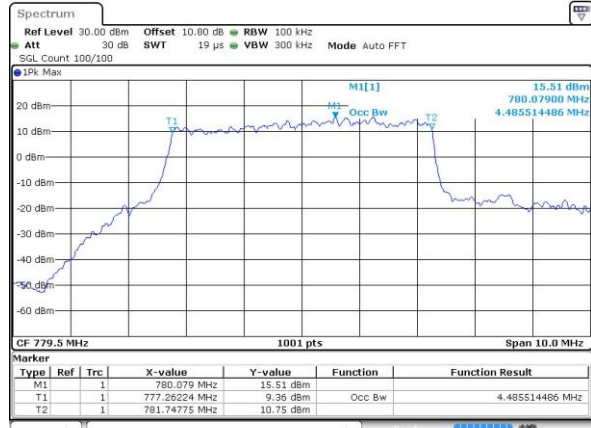
LTE Band 13

Lowest Channel / 5MHz / QPSK



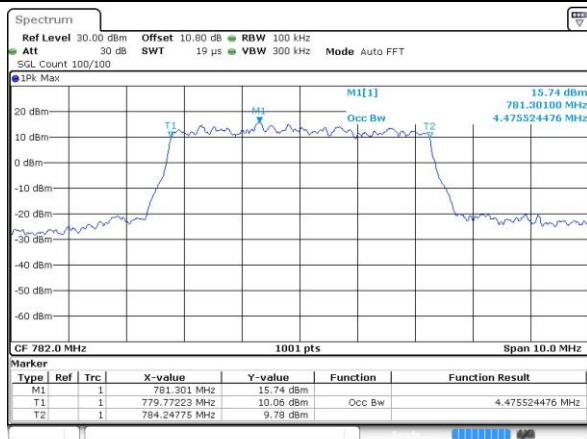
Date: 22 MAY 2018 16:16:13

Lowest Channel / 5MHz / 16QAM



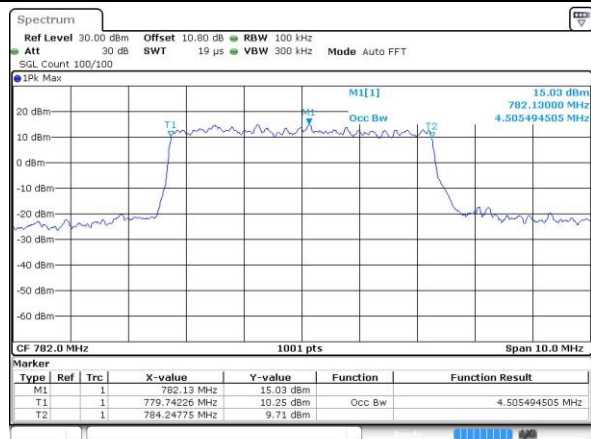
Date: 22 MAY 2018 16:16:23

Middle Channel / 5MHz / QPSK



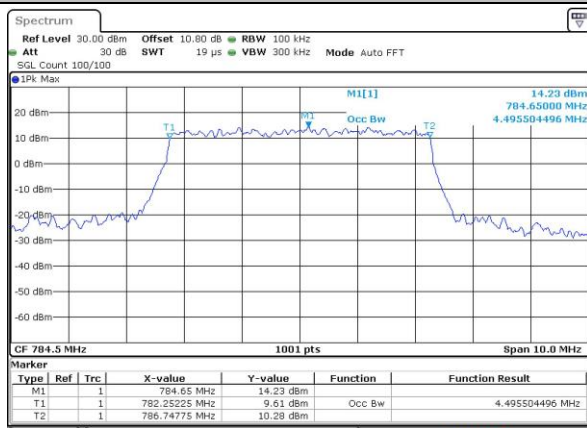
Date: 22 MAY 2018 16:27:40

Middle Channel / 5MHz / 16QAM



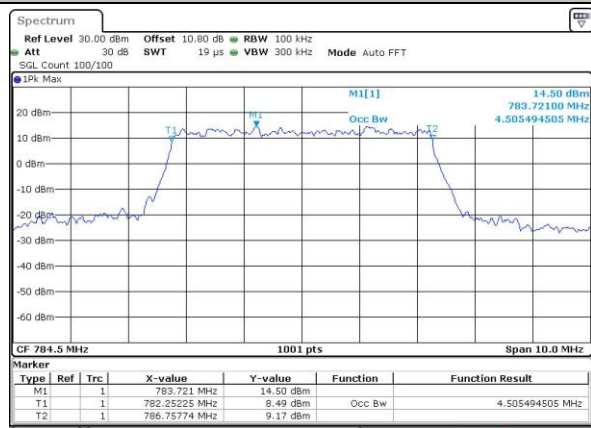
Date: 22 MAY 2018 16:27:29

Highest Channel / 5MHz / QPSK



Date: 22 MAY 2018 16:27:50

Highest Channel / 5MHz / 16QAM

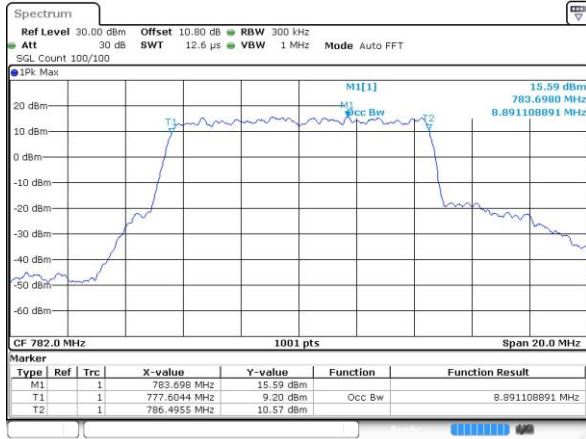


Date: 22 MAY 2018 16:28:01

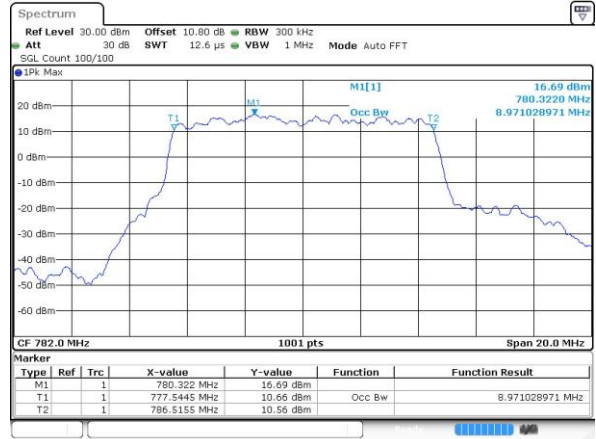


LTE Band 13

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



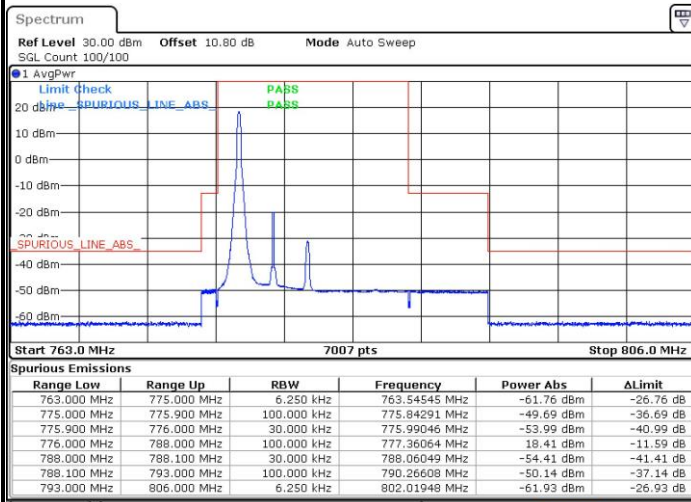


Conducted Band Edge



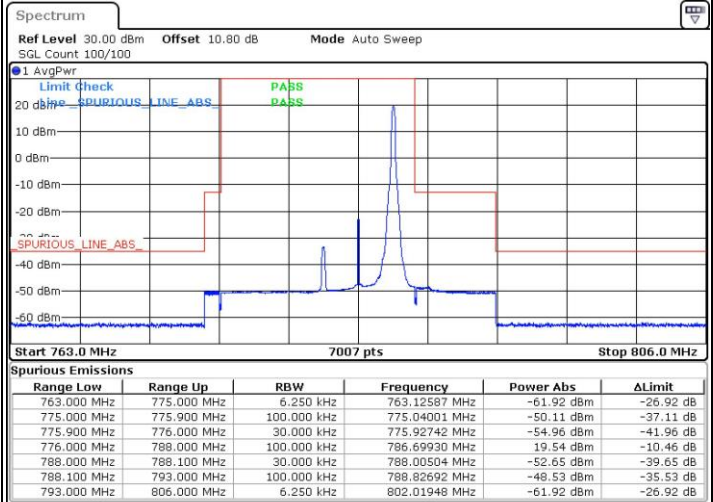
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



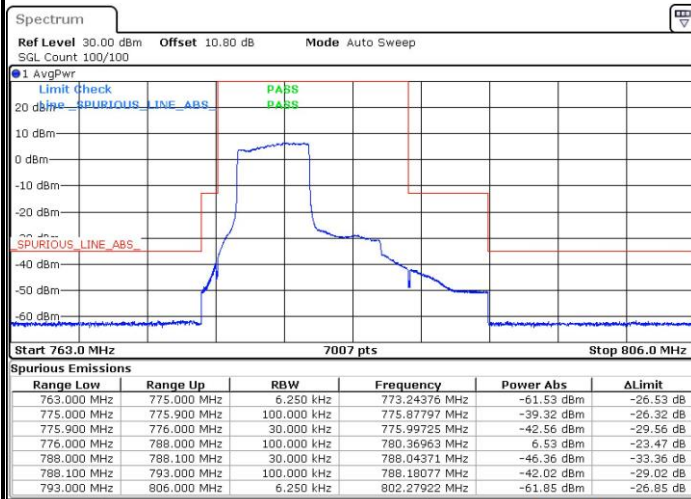
Date: 22 MAY 2018 16:23:21

Highest Band Edge / 1 RB



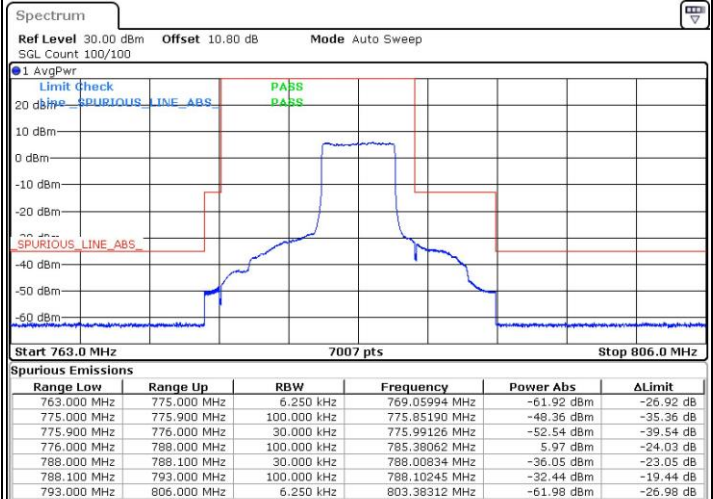
Date: 22 MAY 2018 16:34:58

Lowest Band Edge / Full RB



Date: 22 MAY 2018 16:18:23

Highest Band Edge / Full RB

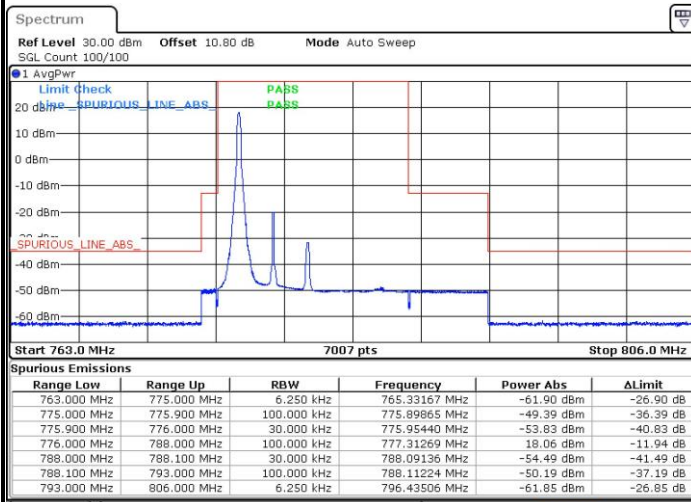


Date: 22 MAY 2018 16:30:00



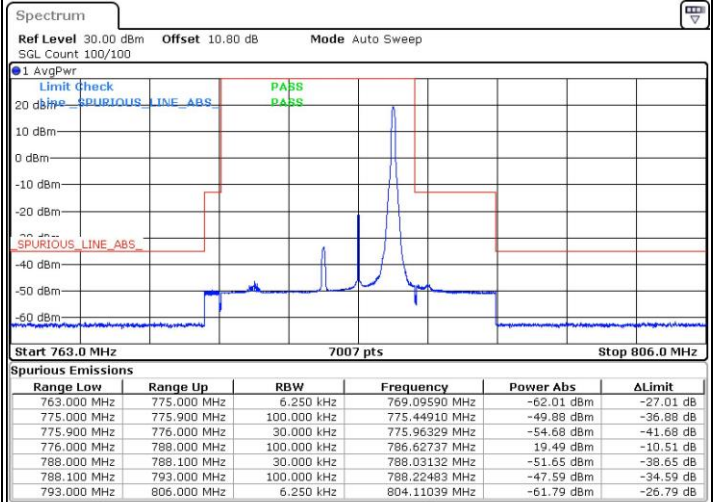
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



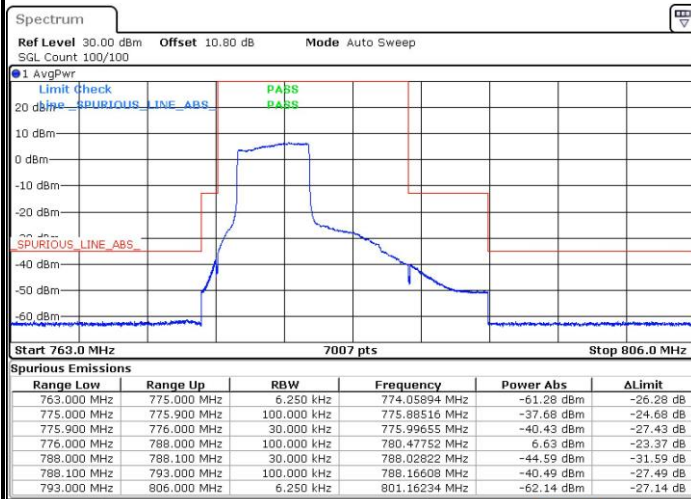
Date: 22 MAY 2018 16:21:42

Highest Band Edge / 1 RB



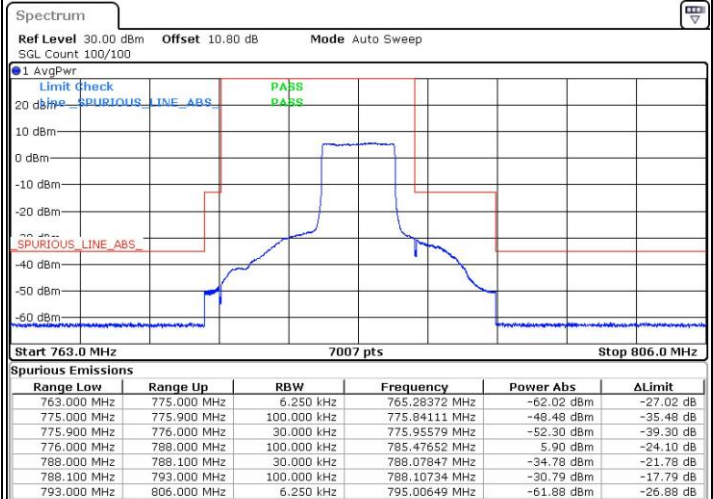
Date: 22 MAY 2018 16:33:19

Lowest Band Edge / Full RB



Date: 22 MAY 2018 16:20:02

Highest Band Edge / Full RB

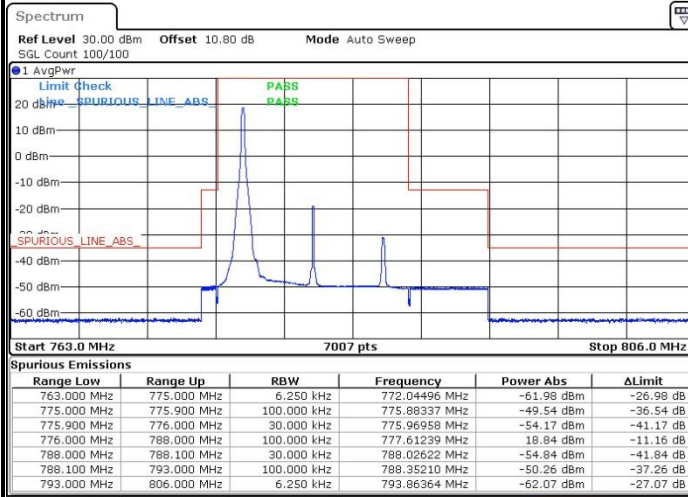


Date: 22 MAY 2018 16:31:40



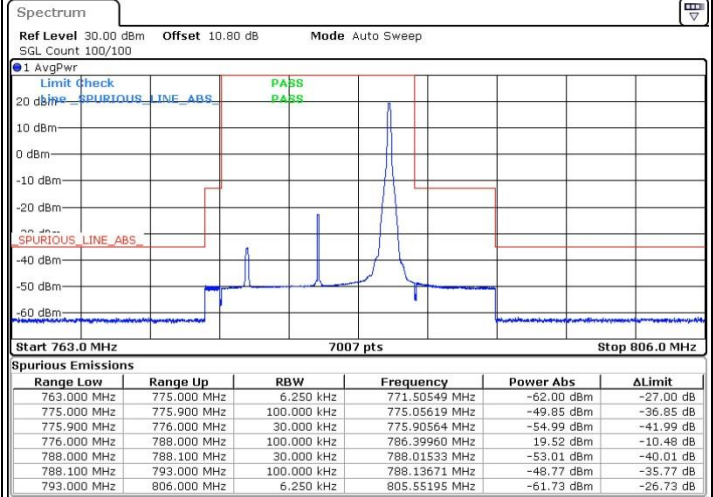
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



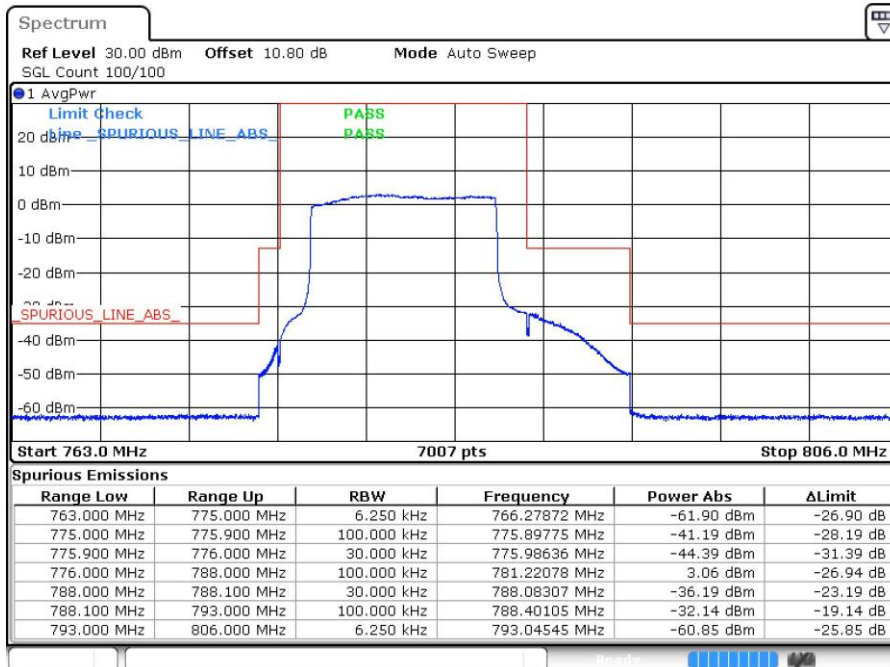
Date: 22 MAY 2018 16:44:06

Highest Band Edge / 1 RB



Date: 22 MAY 2018 16:45:45

Band Edge / Full RB

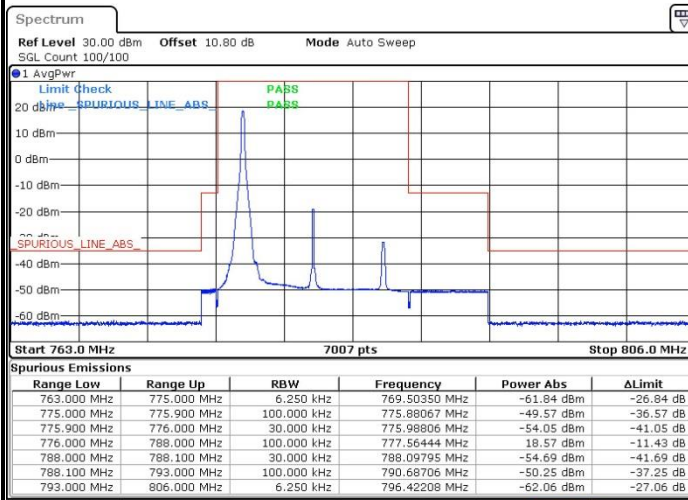


Date: 22 MAY 2018 16:39:08



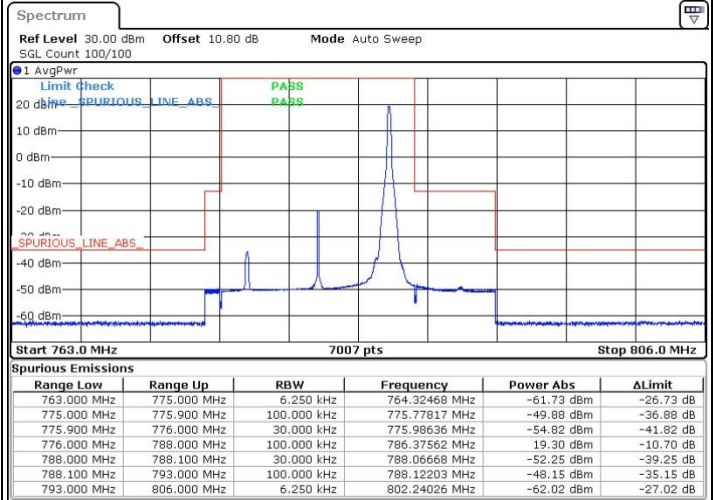
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



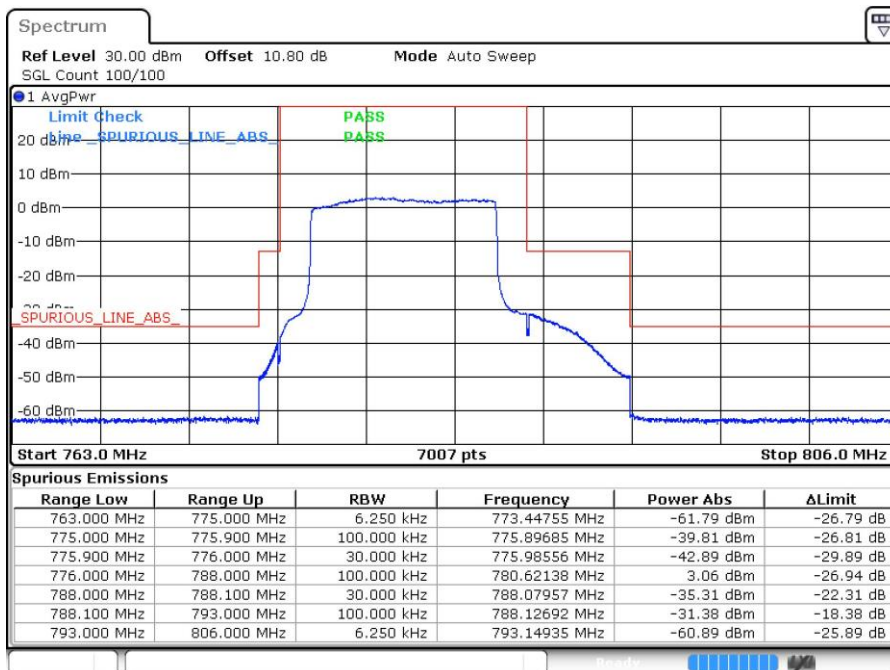
Date: 22 MAY 2018 16:42:26

Highest Band Edge / 1 RB



Date: 22 MAY 2018 16:47:25

Band Edge / Full RB



Date: 22 MAY 2018 16:40:47

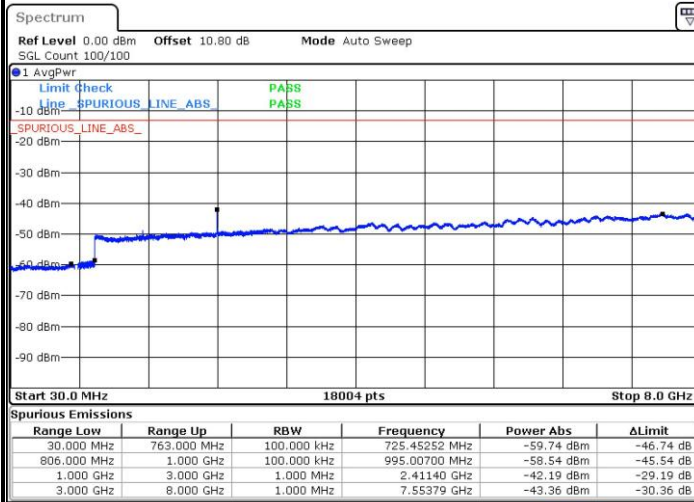


Conducted Spurious Emission



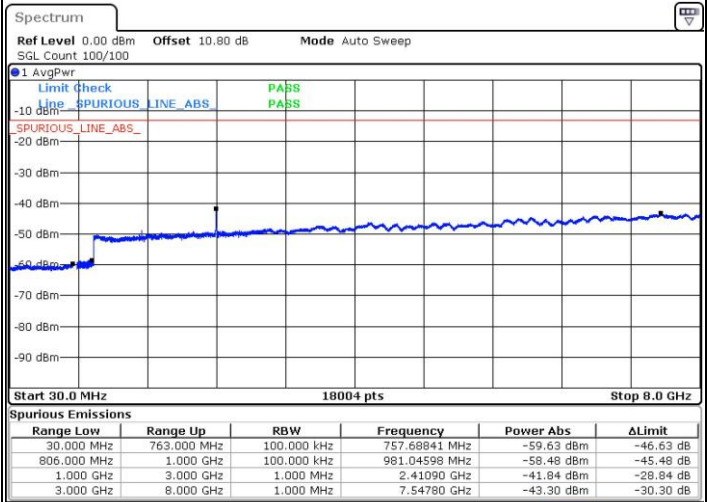
LTE Band 13 / 5MHz

Lowest Channel / QPSK



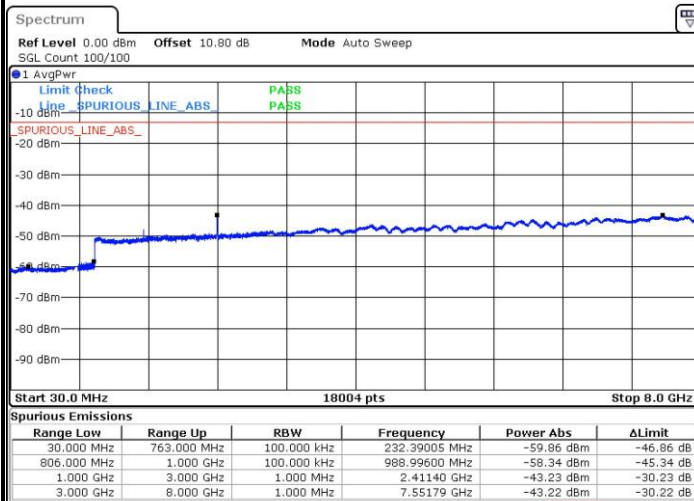
Date: 22 MAY 2018 16:24:16

Lowest Channel / 16QAM



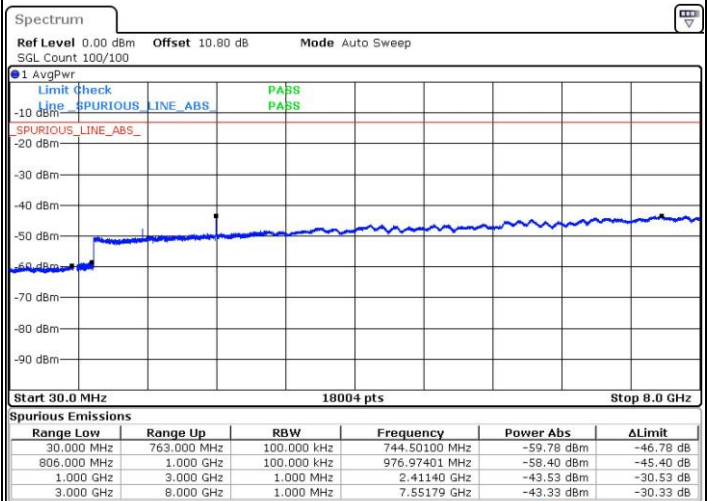
Date: 22 MAY 2018 16:25:10

Middle Channel / QPSK



Date: 22 MAY 2018 16:26:58

Middle Channel / 16QAM



Date: 22 MAY 2018 16:26:04