



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	3.36	4.9	4.09	6.03	
Highest CH	-	-	-	-	

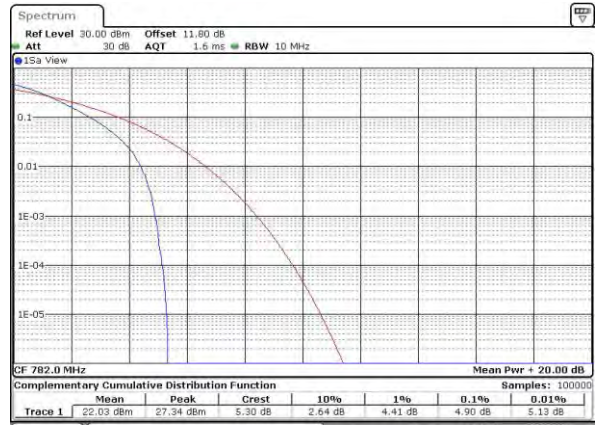


LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Middle Channel / Full RB



LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Middle Channel / Full RB





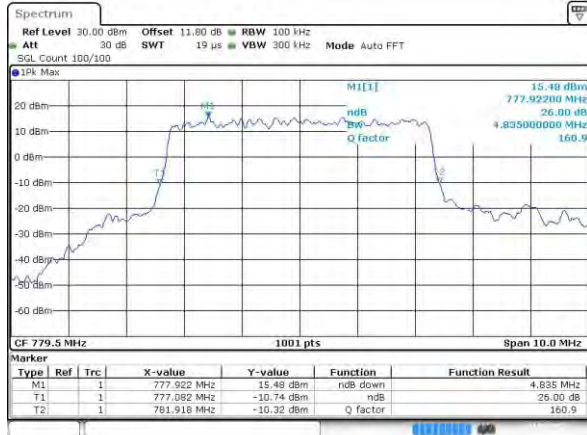
26dB Bandwidth

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	-	-	-	-	4.84	4.87	-	-	-	-	-	-
Middle CH	-	-	-	-	4.84	4.94	9.67	9.65	-	-	-	-
Highest CH	-	-	-	-	4.91	4.93	-	-	-	-	-	-

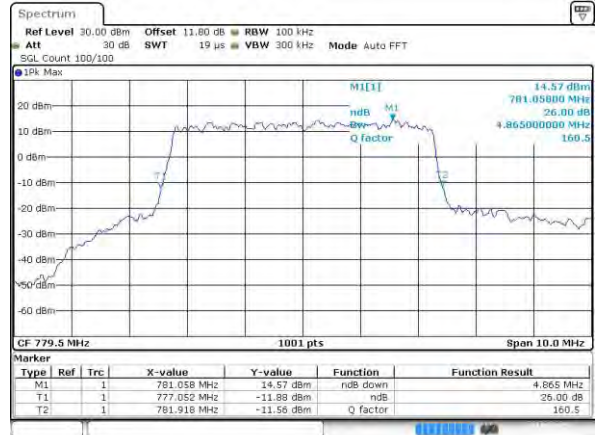


LTE Band 13

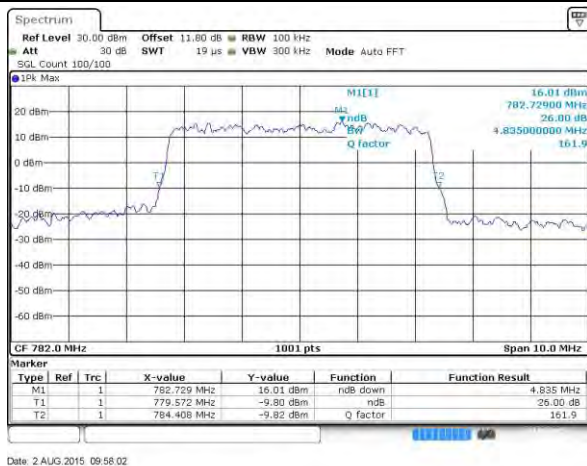
Lowest Channel / 5MHz / QPSK



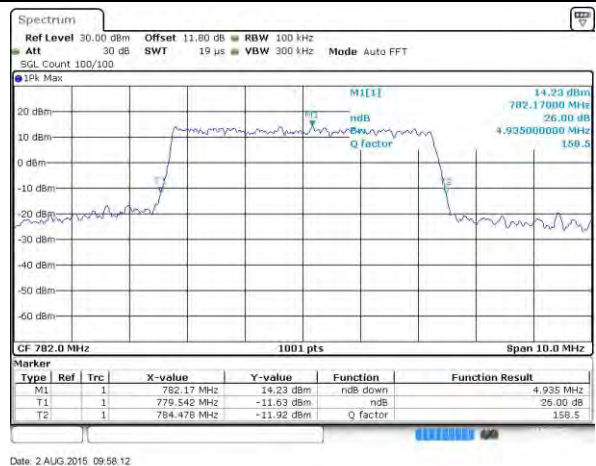
Lowest Channel / 5MHz / 16QAM



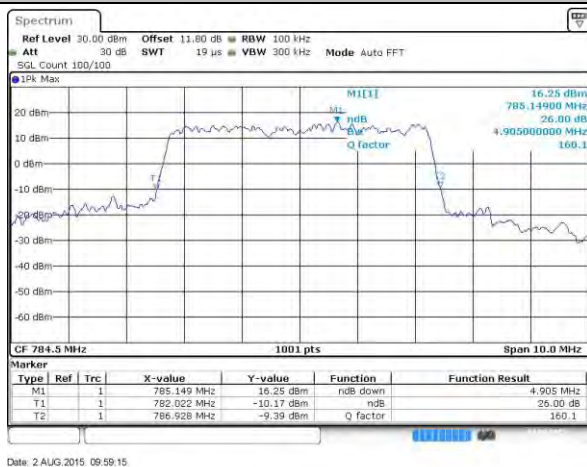
Middle Channel / 5MHz / QPSK



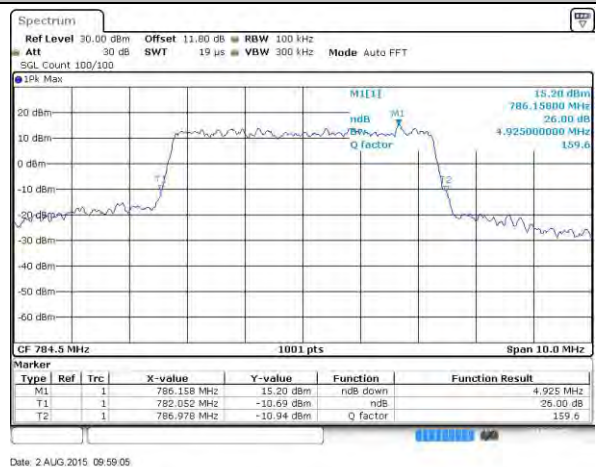
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



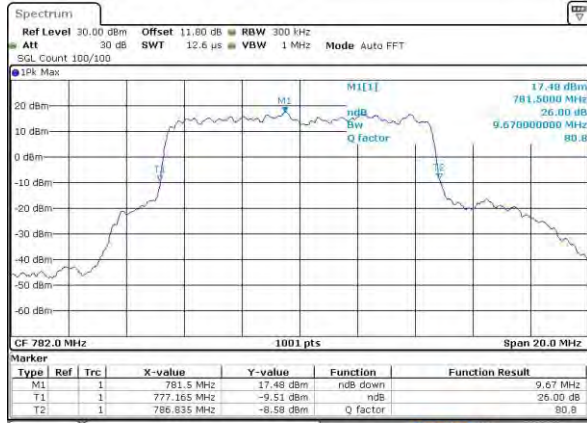
Highest Channel / 5MHz / 16QAM





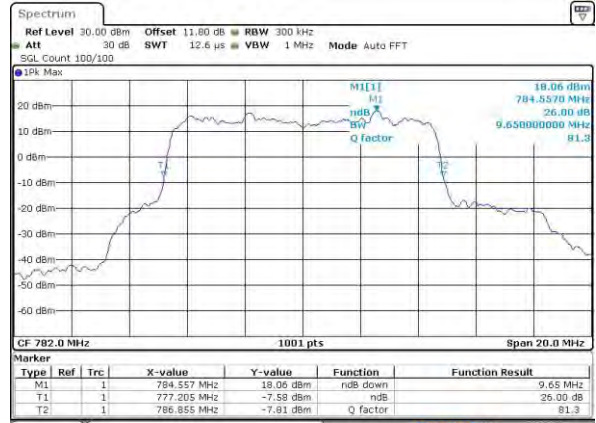
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 2 AUG 2015 10:01:45

Middle Channel / 10MHz / 16QAM



Date: 2 AUG 2015 10:01:35



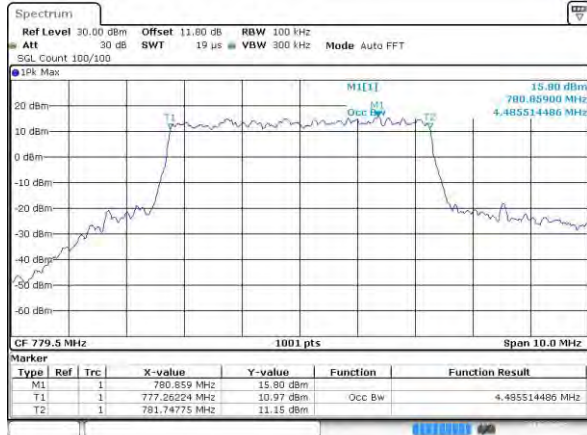
Occupied Bandwidth

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	-	-	-	-	4.49	4.47	-	-	-	-	-	-
Middle CH	-	-	-	-	4.51	4.46	8.97	8.99	-	-	-	-
Highest CH	-	-	-	-	4.5	4.51	-	-	-	-	-	-



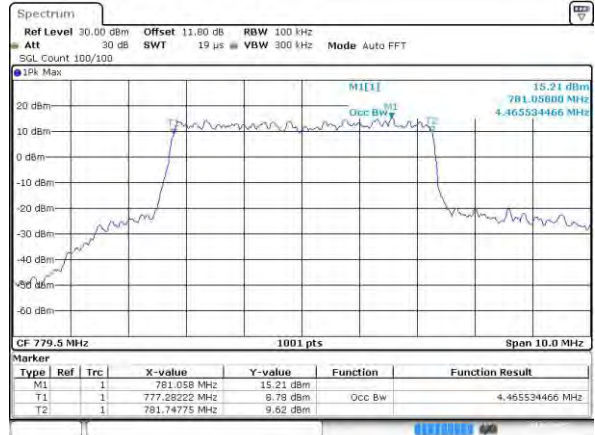
LTE Band 13

Lowest Channel / 5MHz / QPSK



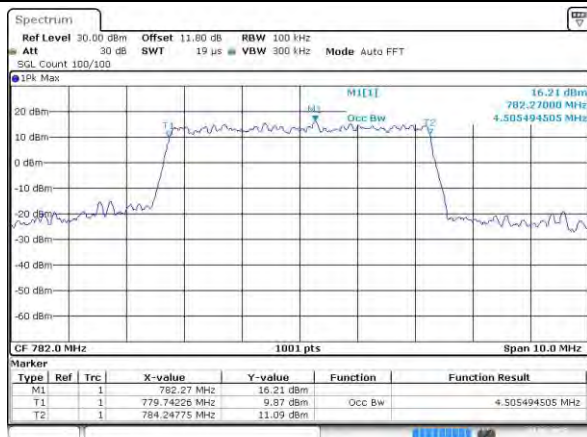
Date: 2 AUG 2015 10:05:13

Lowest Channel / 5MHz / 16QAM



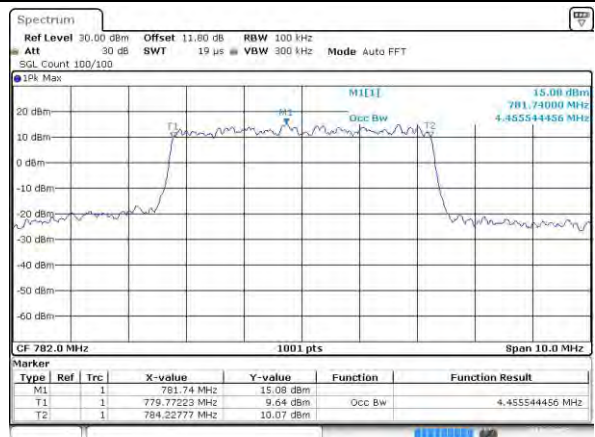
Date: 2 AUG 2015 09:53:54

Middle Channel / 5MHz / QPSK



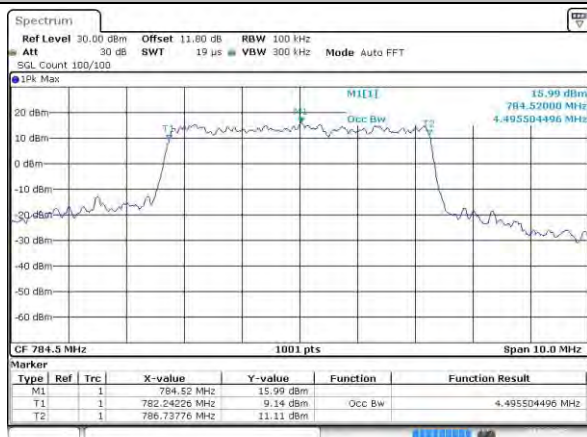
Date: 2 AUG 2015 09:58:33

Middle Channel / 5MHz / 16QAM



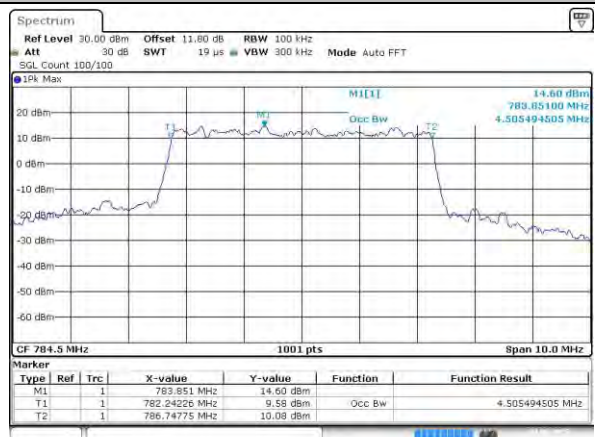
Date: 2 AUG 2015 09:58:23

Highest Channel / 5MHz / QPSK



Date: 2 AUG 2015 09:58:44

Highest Channel / 5MHz / 16QAM

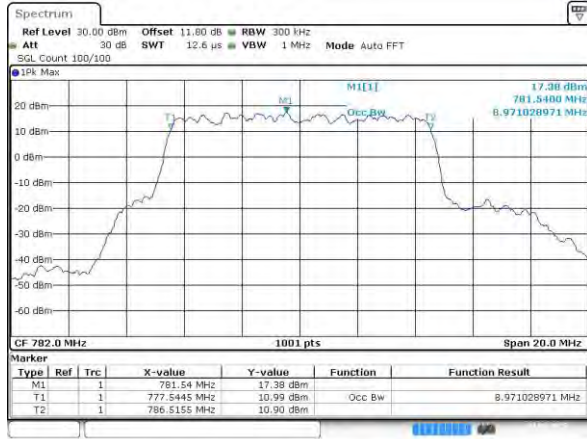


Date: 2 AUG 2015 09:58:54

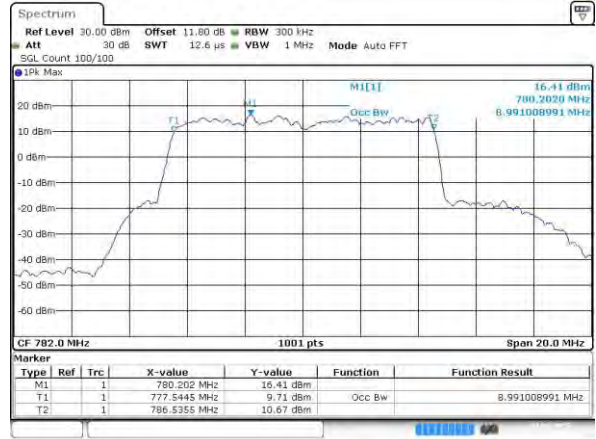


LTE Band 13

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



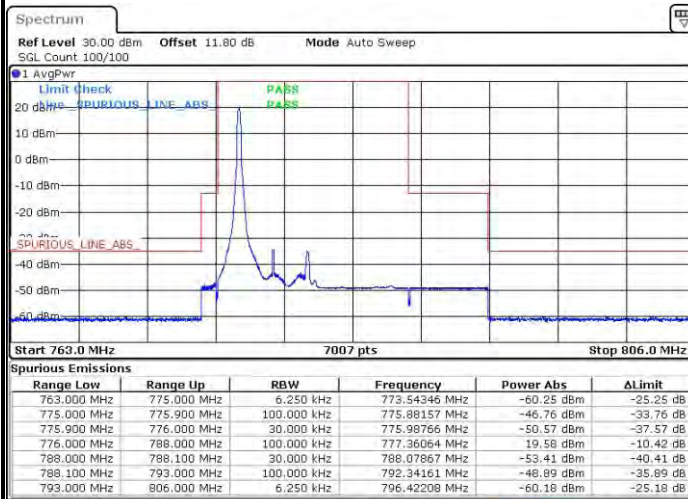


Conducted Band Edge



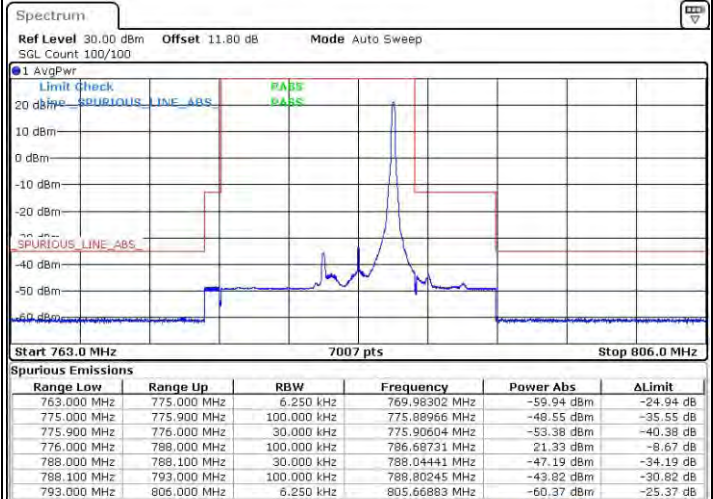
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



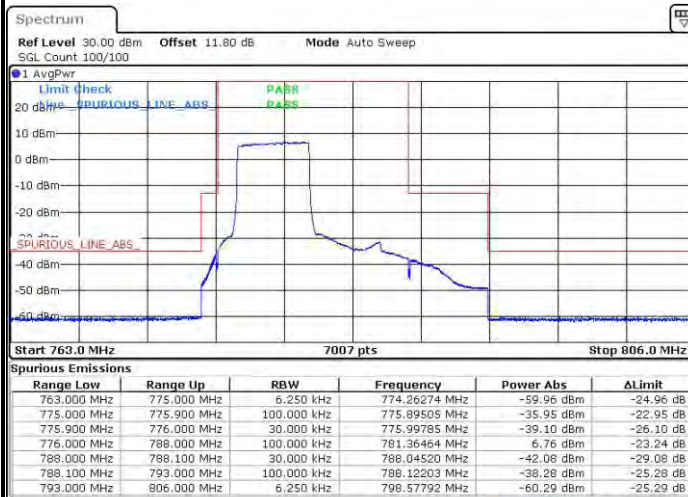
Date: 2 AUG 2015 11:03:12

Highest Band Edge / 1 RB



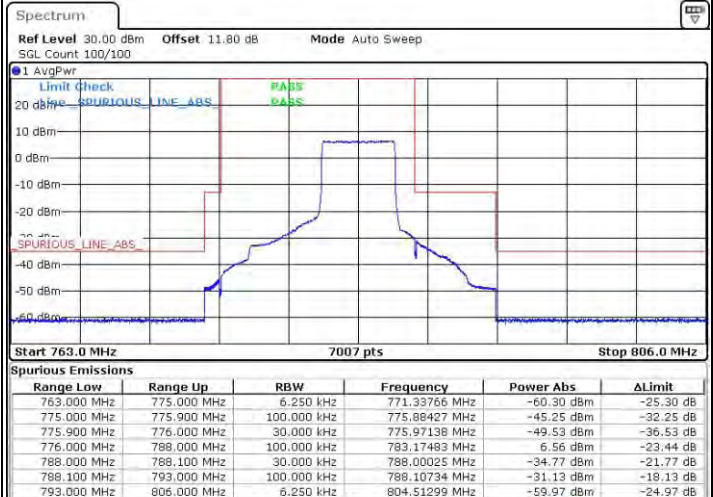
Date: 2 AUG 2015 11:07:50

Lowest Band Edge / Full RB



Date: 2 AUG 2015 10:59:43

Highest Band Edge / Full RB

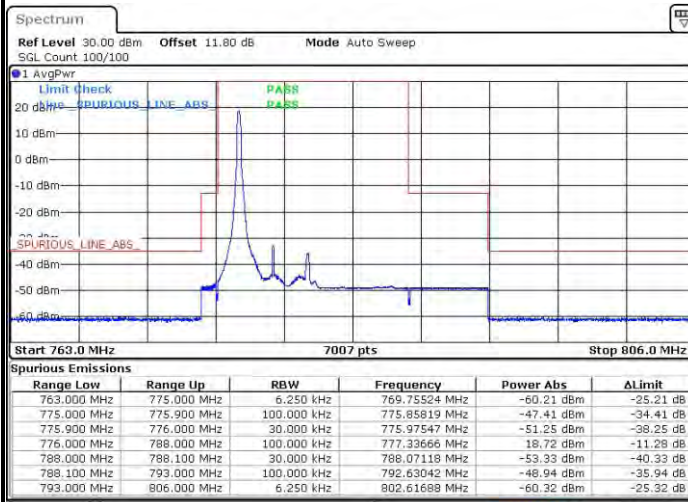


Date: 2 AUG 2015 11:04:21



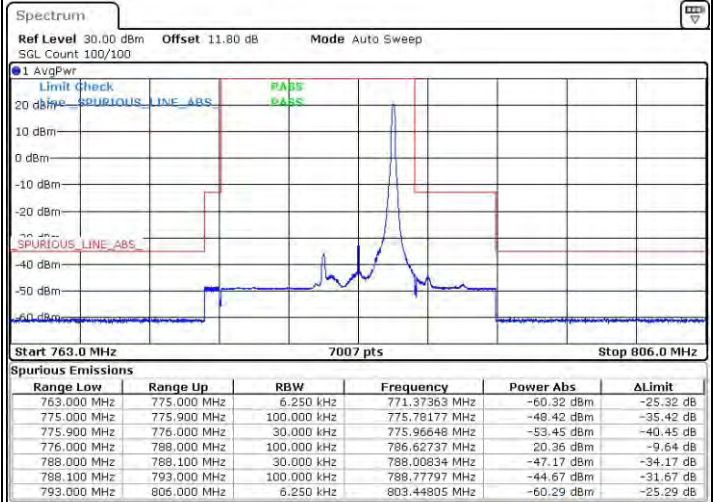
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



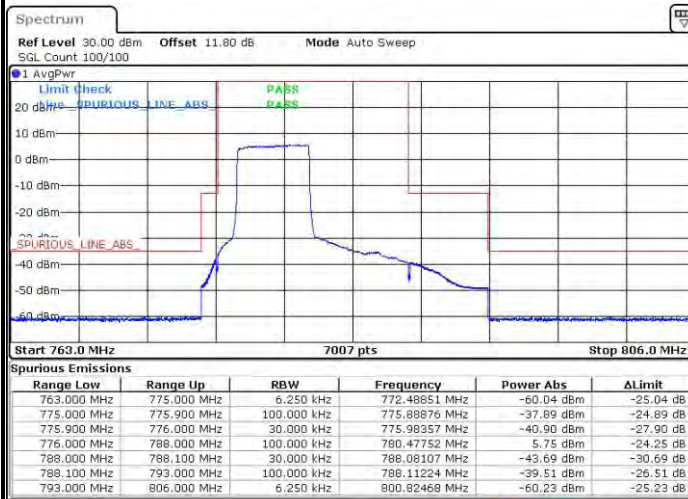
Date: 2 AUG 2015 11:02:02

Highest Band Edge / 1 RB



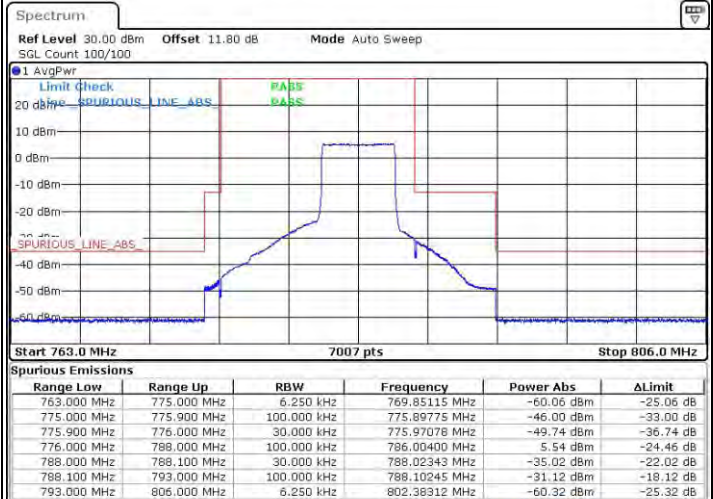
Date: 2 AUG 2015 11:06:40

Lowest Band Edge / Full RB



Date: 2 AUG 2015 11:00:53

Highest Band Edge / Full RB



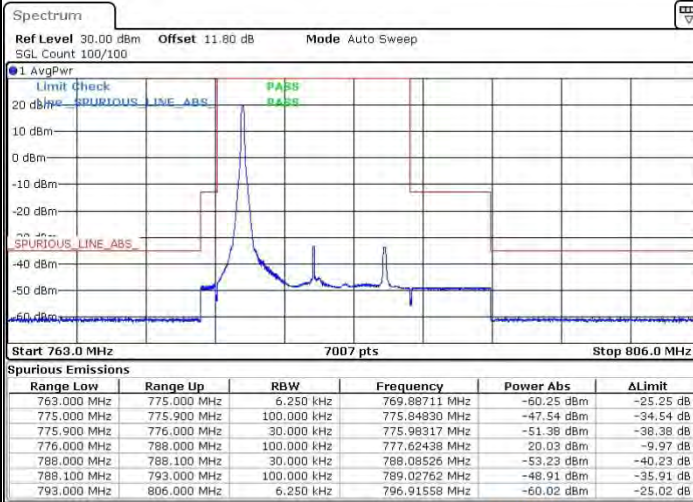
Date: 2 AUG 2015 11:05:31



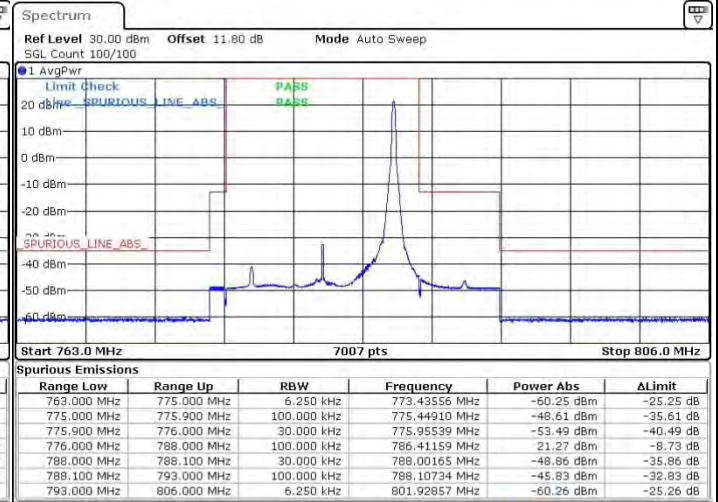
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

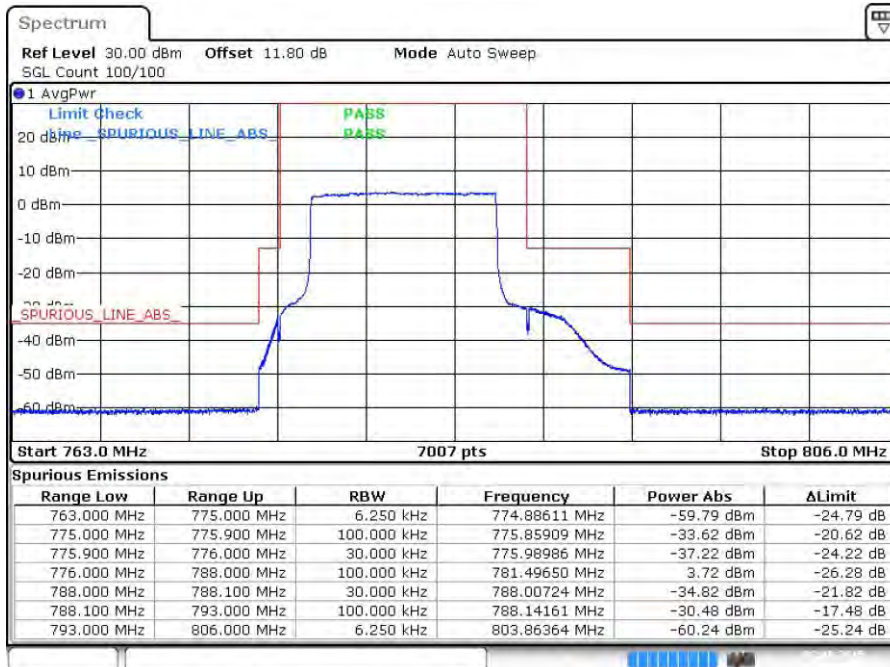


Date: 2 AUG 2015 11:12:28



Date: 2 AUG 2015 11:13:37

Band Edge / Full RB

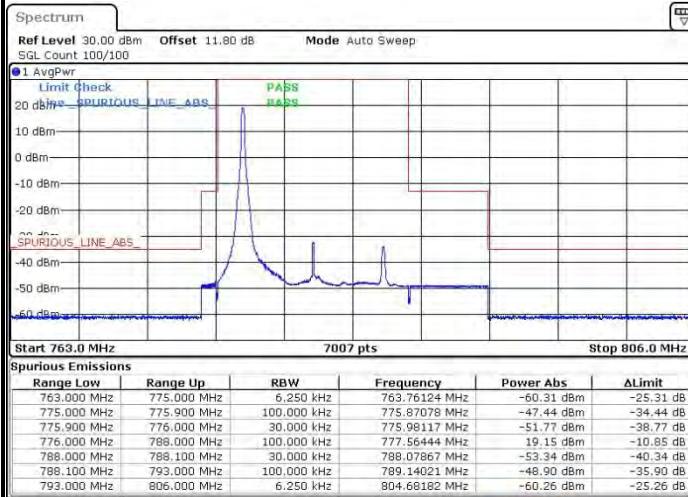


Date: 2 AUG 2015 11:08:59

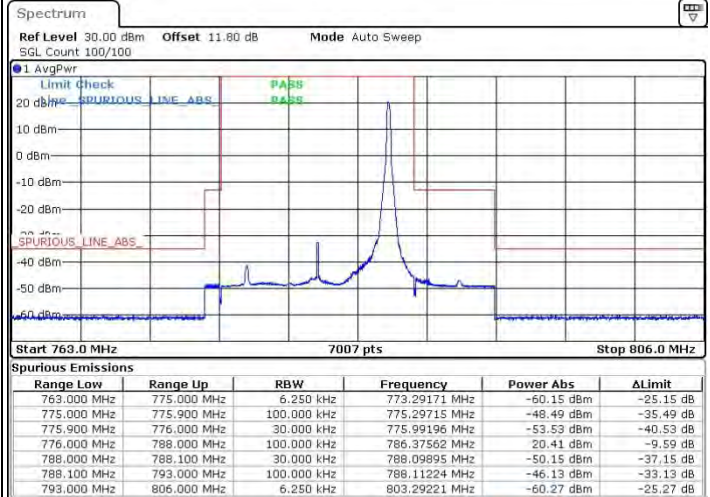


LTE Band 13 / 10MHz / 16QAM

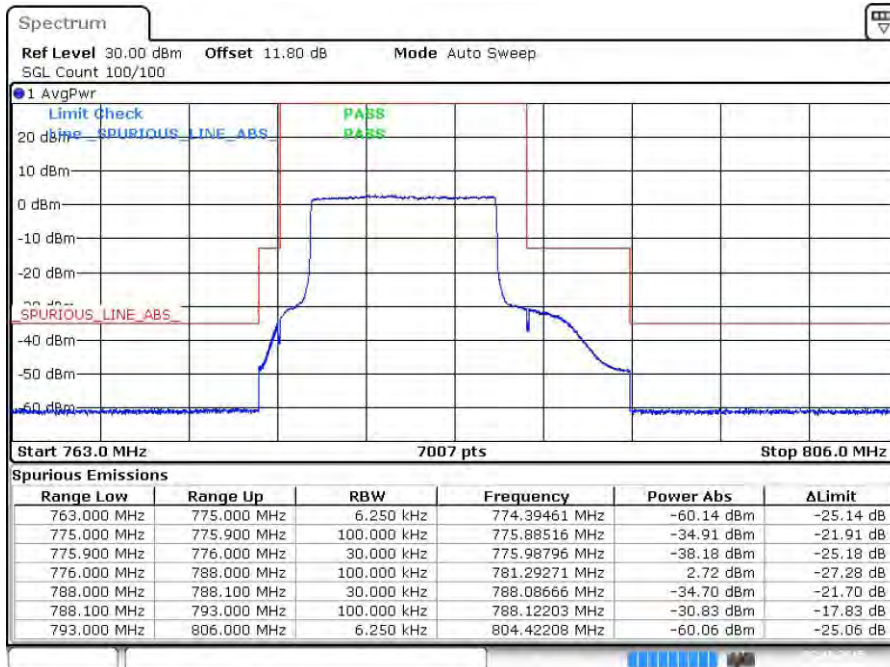
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



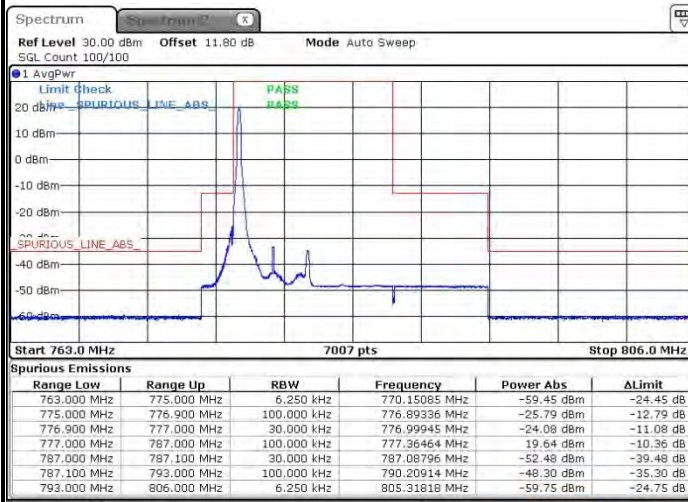
Band Edge / Full RB





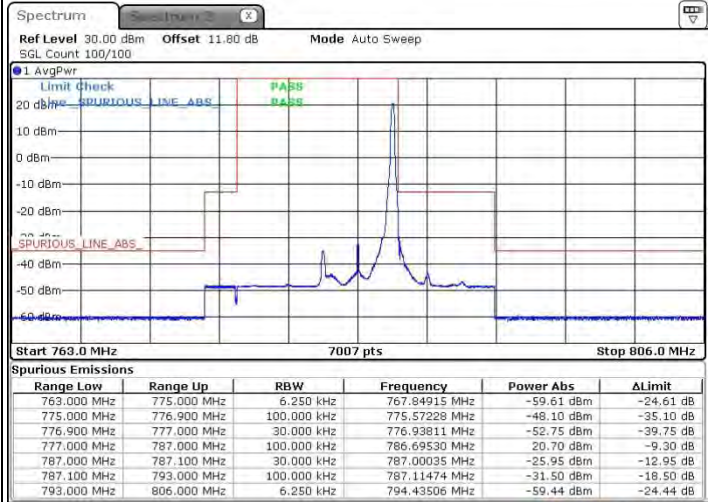
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



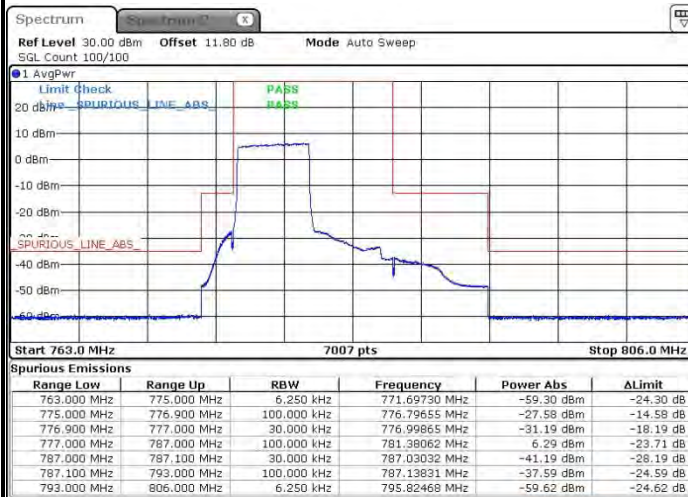
Date: 24 AUG 2015 23:23:22

Highest Band Edge / 1 RB



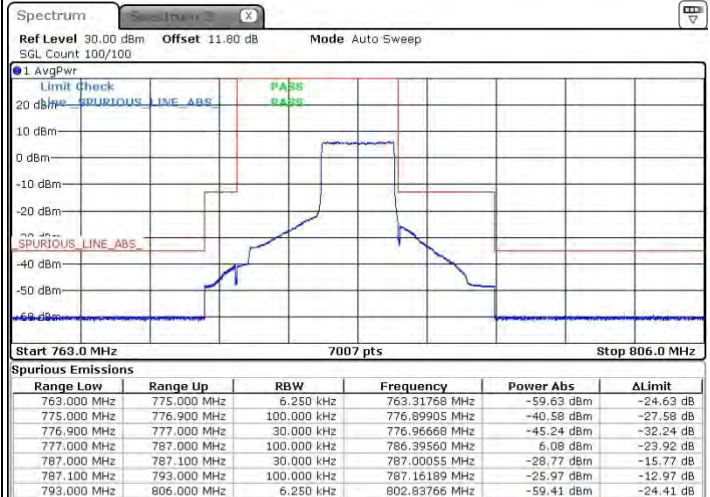
Date: 24 AUG 2015 23:28:19

Lowest Band Edge / Full RB



Date: 24 AUG 2015 23:19:36

Highest Band Edge / Full RB

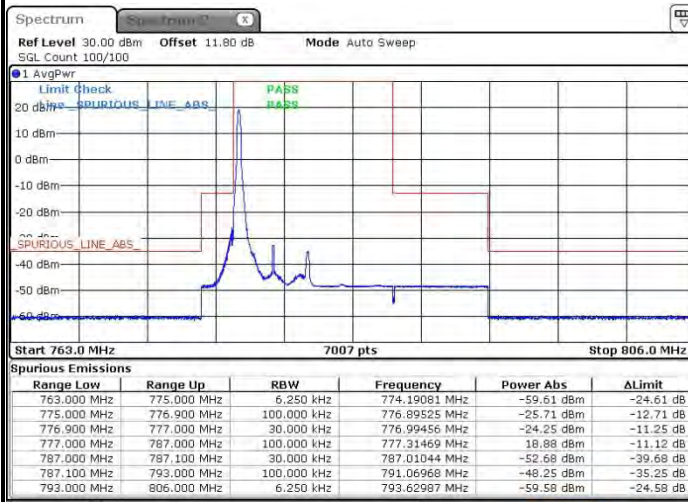


Date: 24 AUG 2015 23:24:35



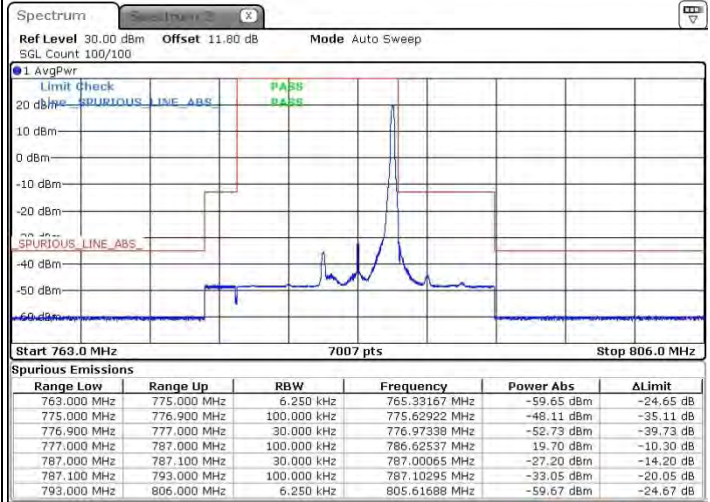
IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



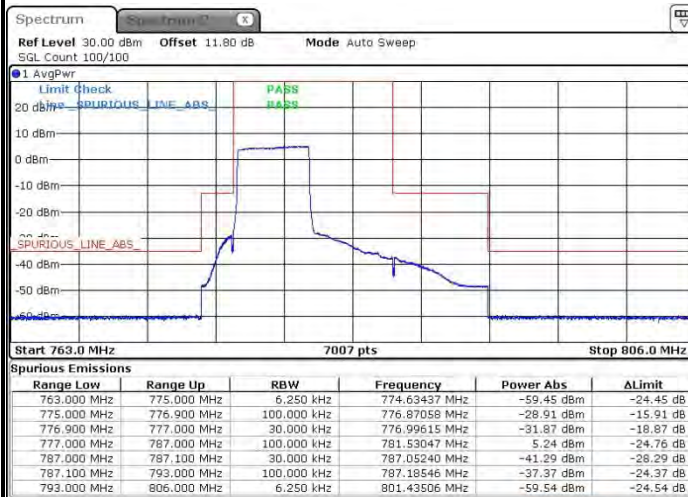
Date: 24.AUG.2015 23:22:07

Highest Band Edge / 1 RB



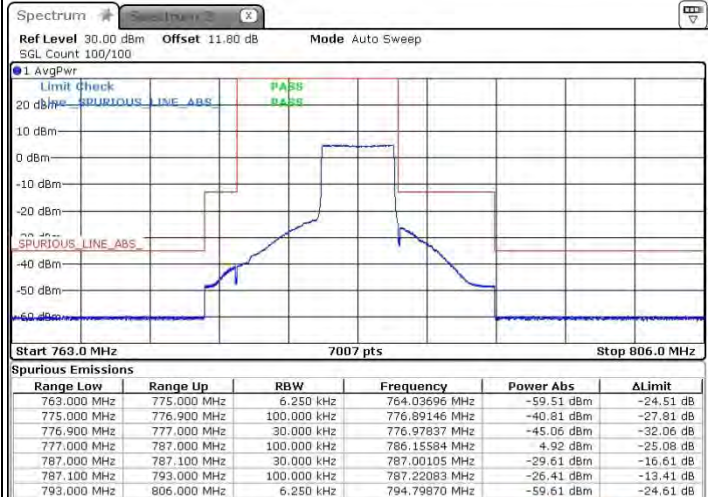
Date: 24.AUG.2015 23:27:05

Lowest Band Edge / Full RB



Date: 24.AUG.2015 23:20:53

Highest Band Edge / Full RB

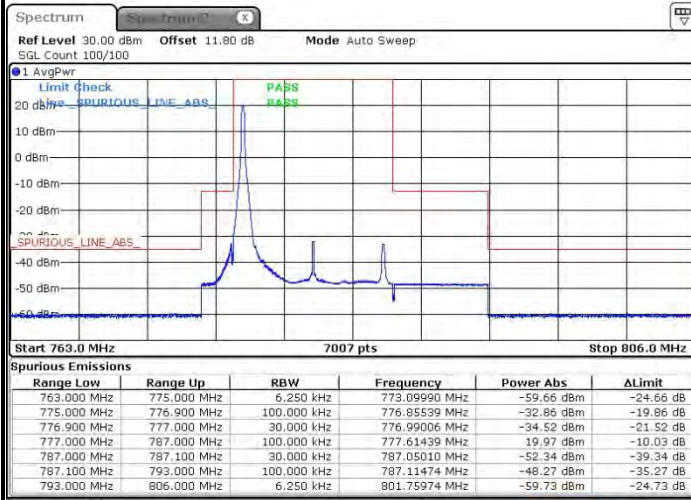


Date: 24.AUG.2015 23:25:49



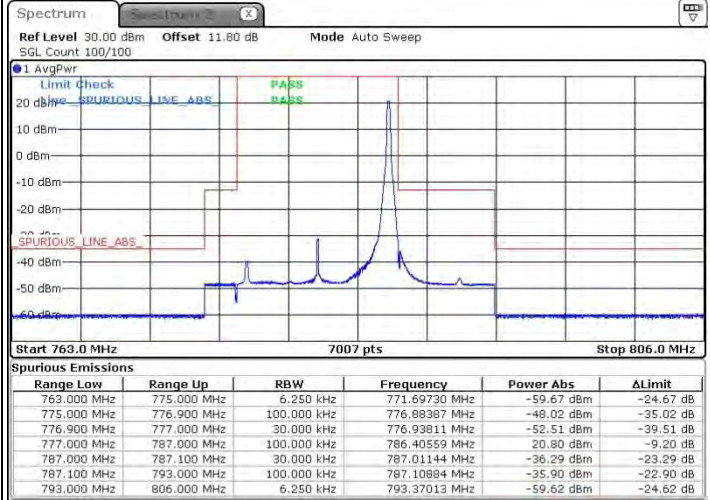
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



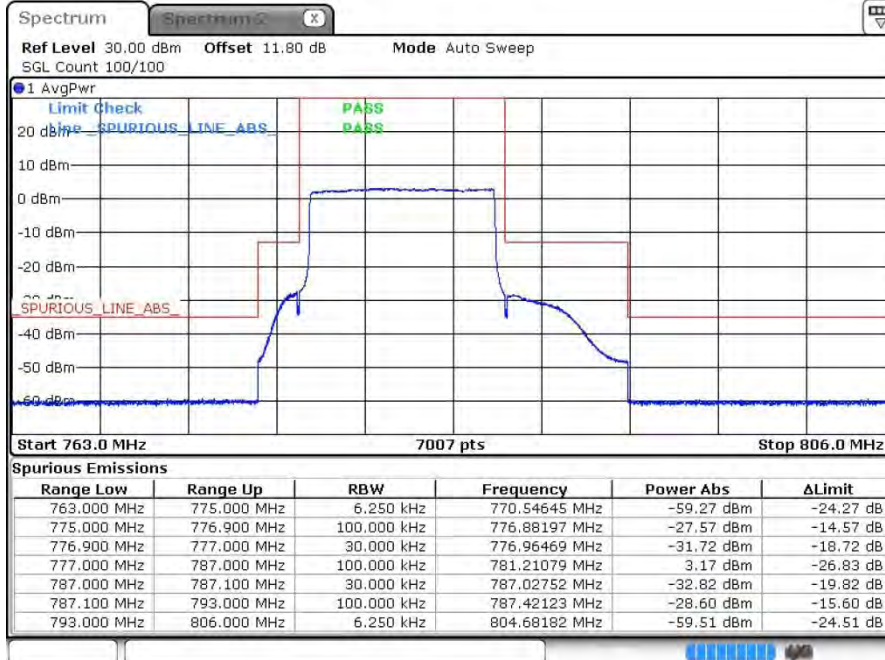
Date: 24.AUG.2015 23:33:05

Highest Band Edge / 1 RB



Date: 24.AUG.2015 23:34:14

Band Edge / Full RB

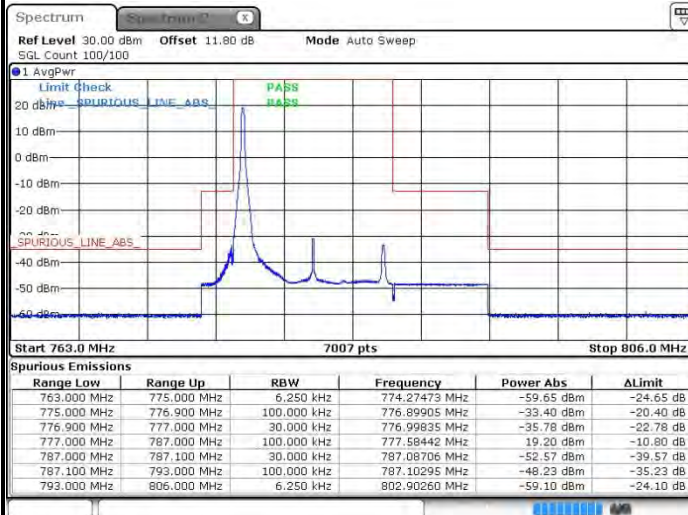


Date: 24.AUG.2015 23:29:36

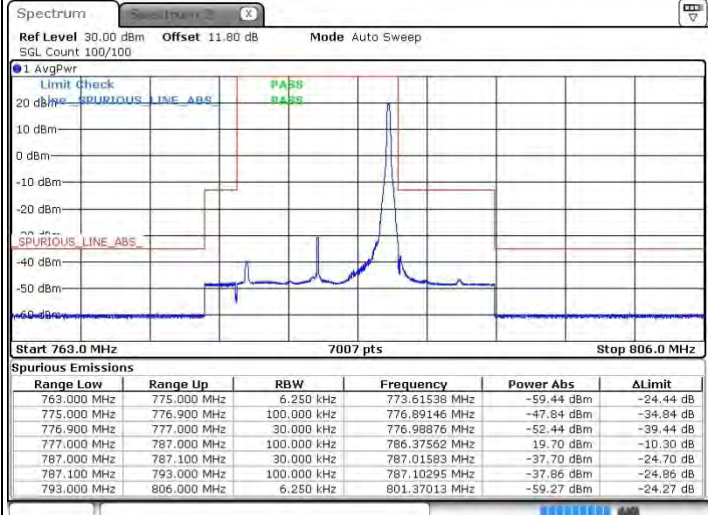


IC LTE Band 13 / 10MHz / 16QAM

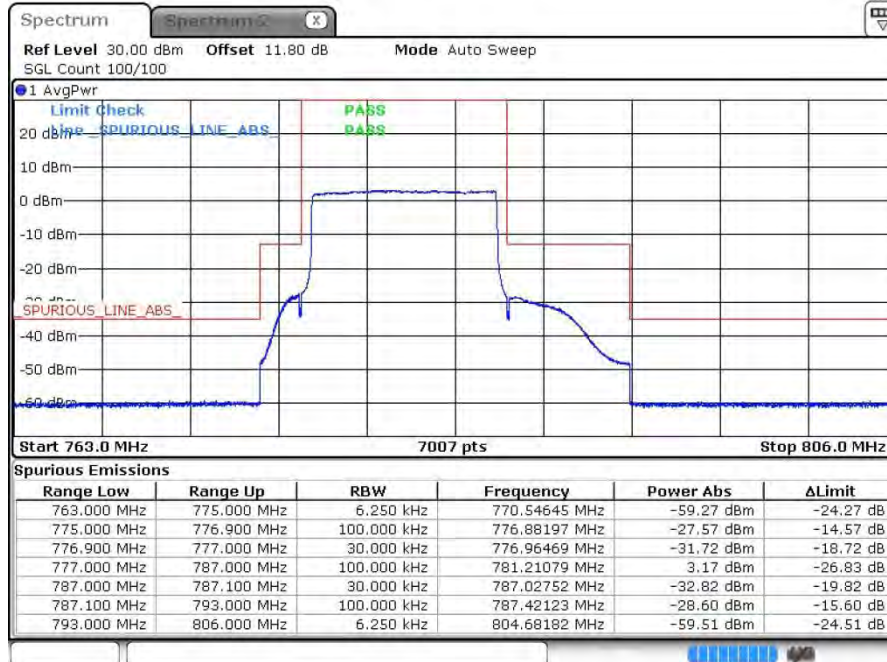
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB



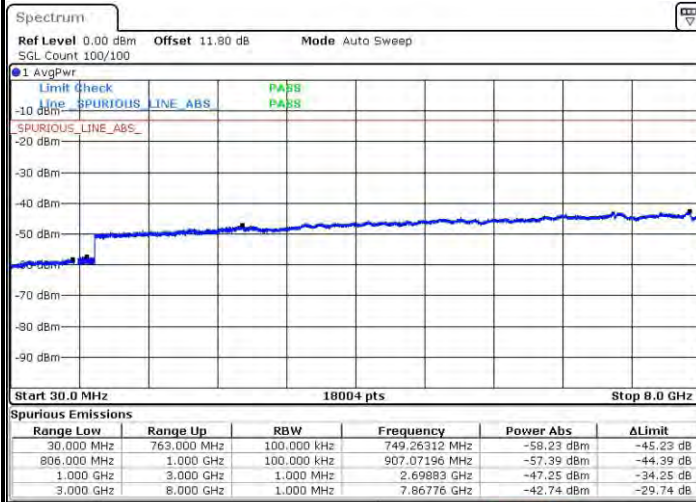


Conducted Spurious Emission



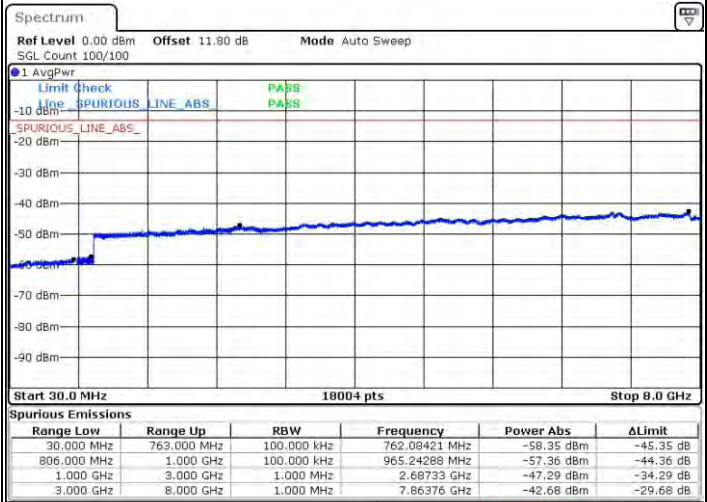
LTE Band 13 / 5MHz

Lowest Channel / QPSK



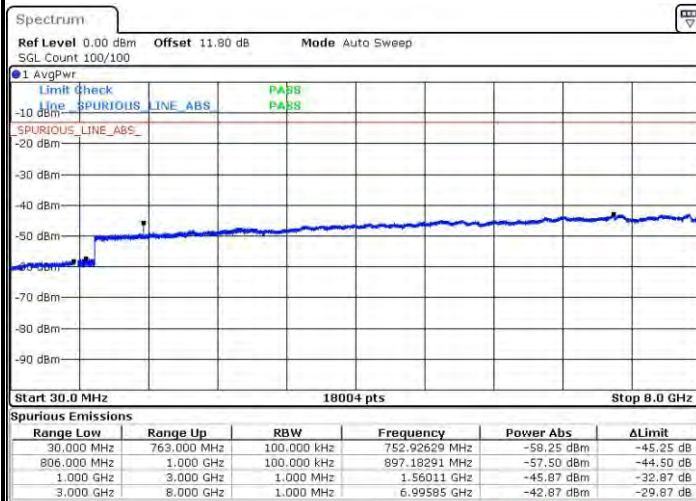
Date: 2 AUG.2015 09:55:09

Lowest Channel / 16QAM



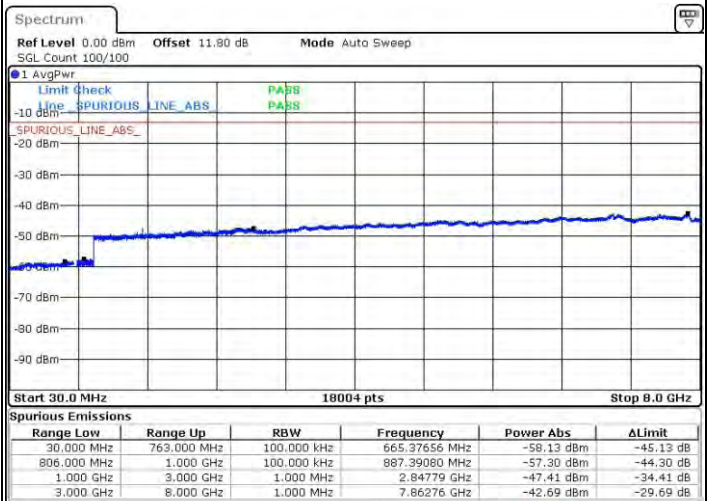
Date: 2 AUG.2015 09:56:03

Middle Channel / QPSK



Date: 2 AUG.2015 09:57:51

Middle Channel / 16QAM

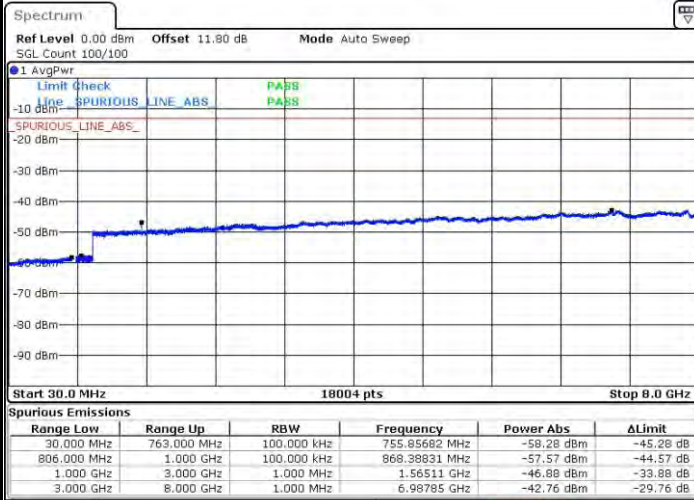


Date: 2 AUG.2015 09:56:57



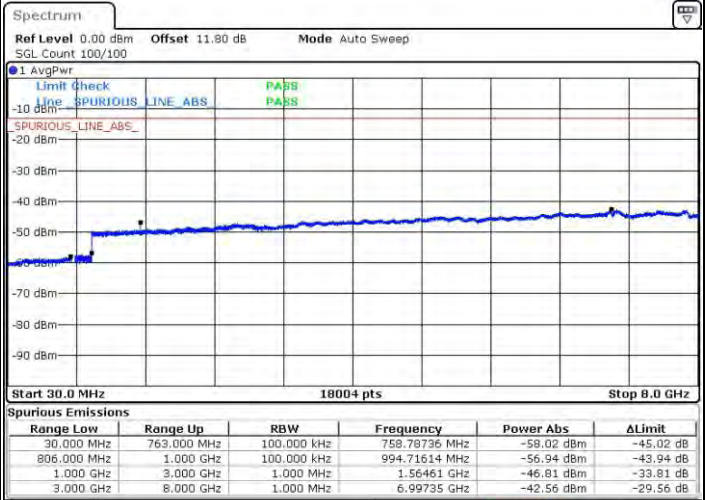
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 2 AUG.2015 10:00:10

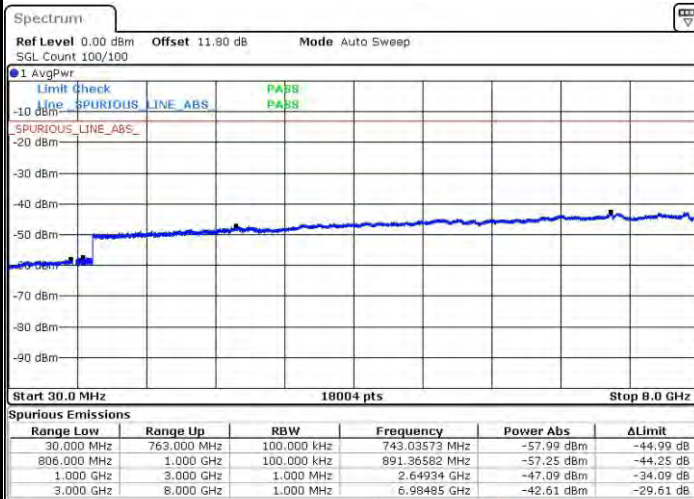
Highest Channel / 16QAM



Date: 2 AUG.2015 10:01:04

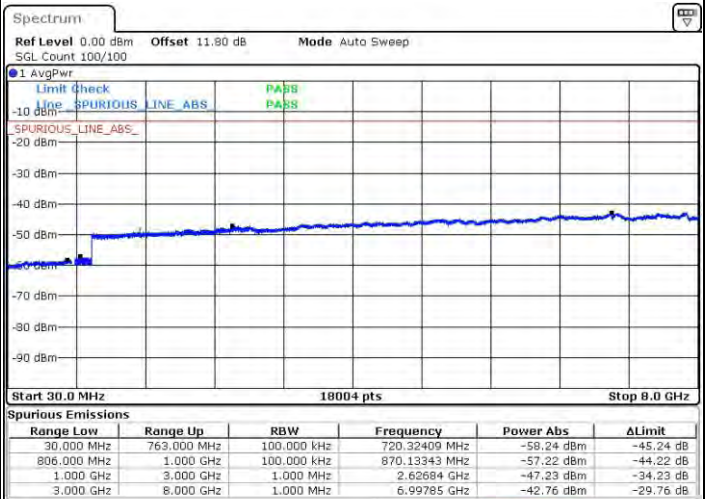
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 2 AUG.2015 10:03:34

Middle Channel / 16QAM



Date: 2 AUG.2015 10:02:40

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	0.0042	PASS
40	Normal Voltage	0.0054	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0041	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0045	

Note:

1. Normal Voltage = 4.0V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.