



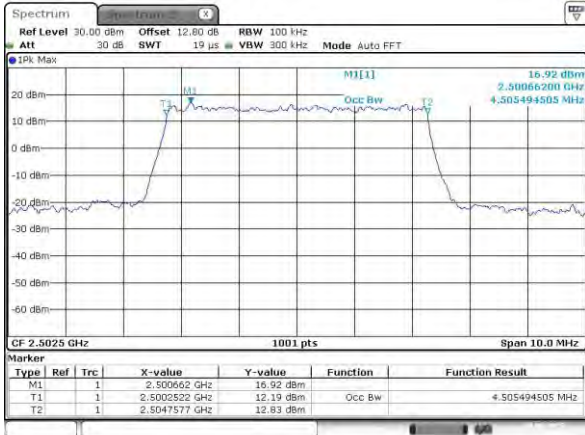
### Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.5	9.09	9.03	13.46	13.49	18.42	18.38
Middle CH	-	-	-	-	4.5	4.5	9.09	9.03	13.43	13.49	18.42	18.46
Highest CH	-	-	-	-	4.51	4.49	9.09	9.07	13.52	13.43	18.34	18.34



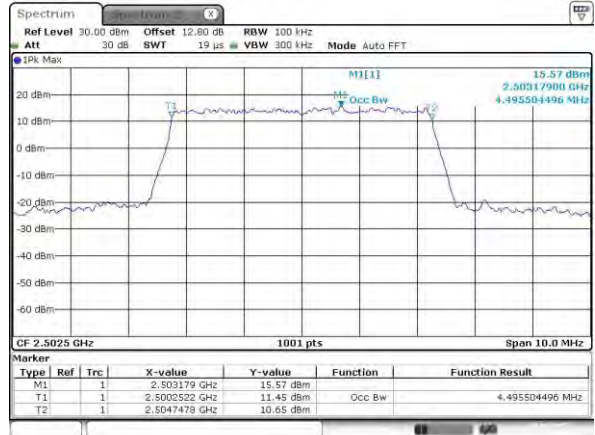
LTE Band 7

Lowest Channel / 5MHz / QPSK



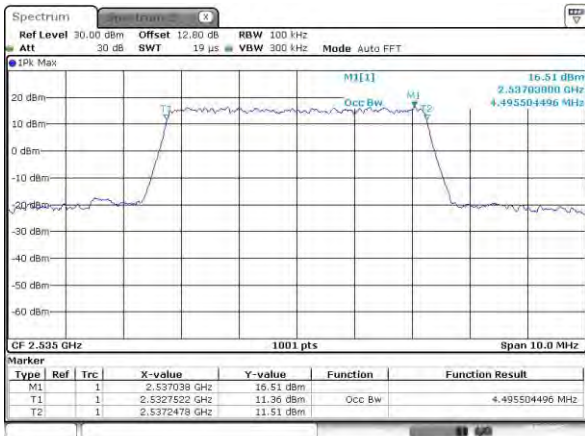
Date: 19 MAY 2015 05:40:59

Lowest Channel / 5MHz / 16QAM



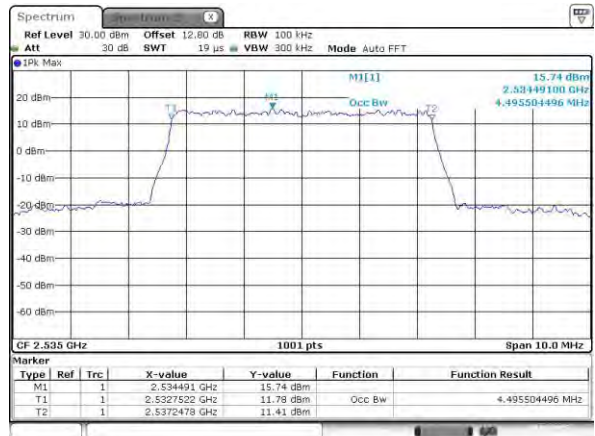
Date: 19 MAY 2015 05:41:10

Middle Channel / 5MHz / QPSK



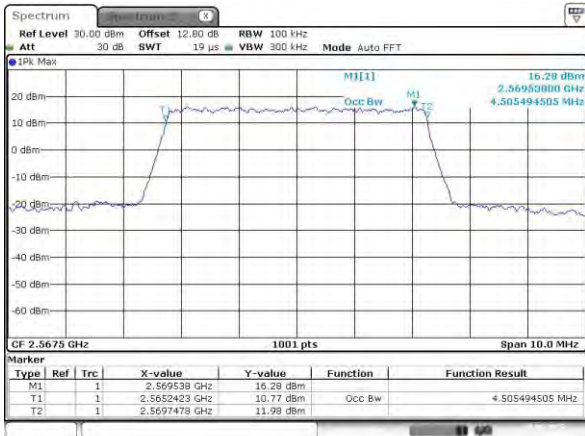
Date: 19 MAY 2015 05:48:44

Middle Channel / 5MHz / 16QAM



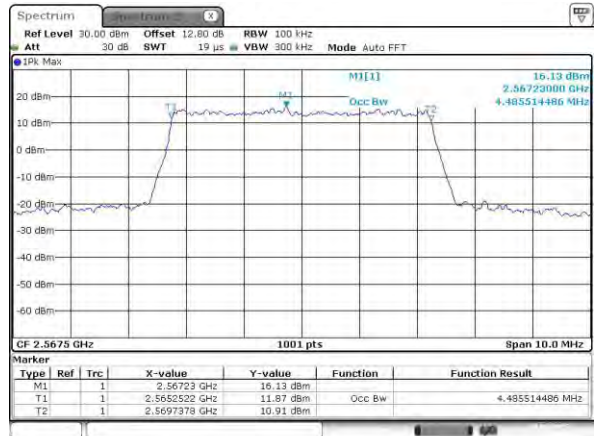
Date: 19 MAY 2015 05:48:55

Highest Channel / 5MHz / QPSK



Date: 19 MAY 2015 05:51:51

Highest Channel / 5MHz / 16QAM

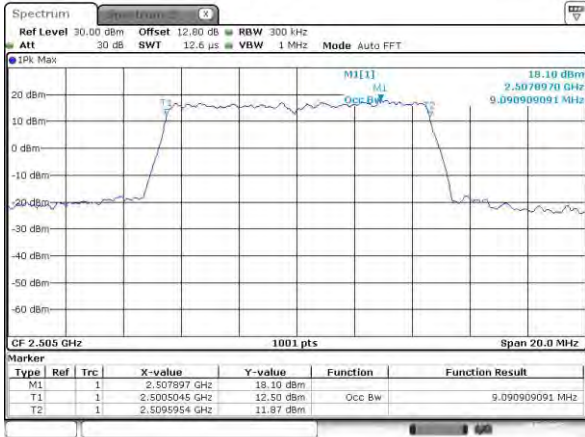


Date: 19 MAY 2015 05:52:02



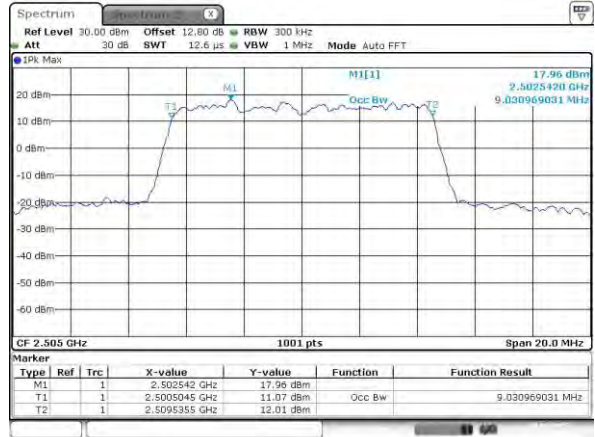
LTE Band 7

Lowest Channel / 10MHz / QPSK



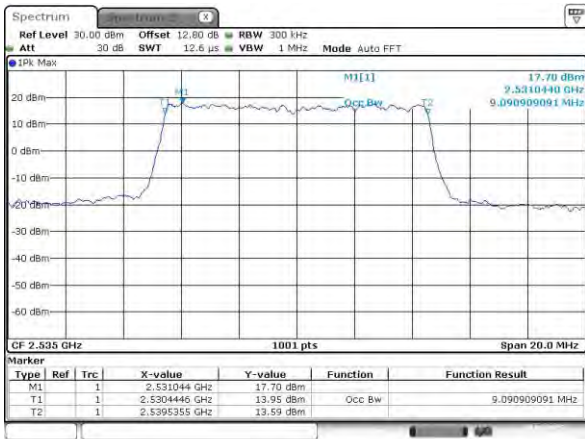
Date: 19 MAY 2015 05:58:41

Lowest Channel / 10MHz / 16QAM



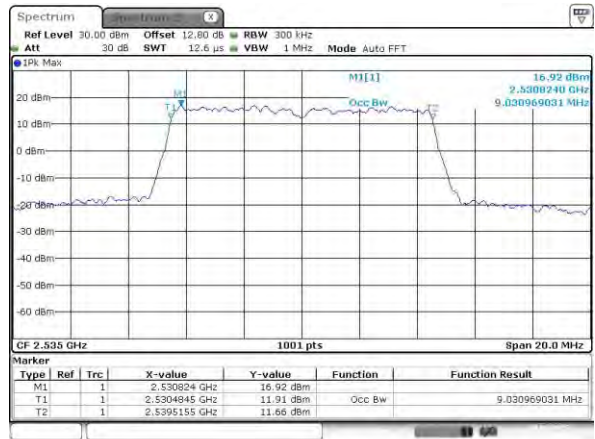
Date: 19 MAY 2015 05:58:52

Middle Channel / 10MHz / QPSK



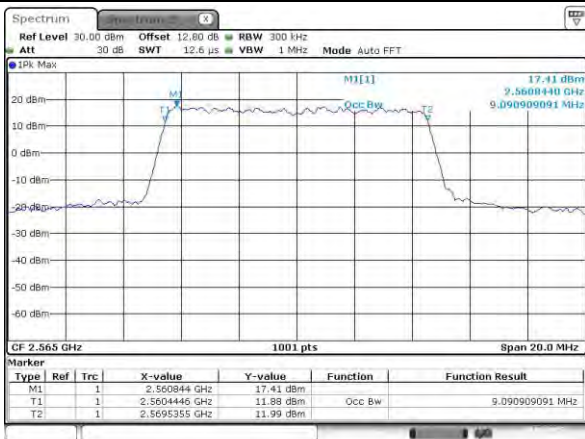
Date: 19 MAY 2015 06:07:26

Middle Channel / 10MHz / 16QAM



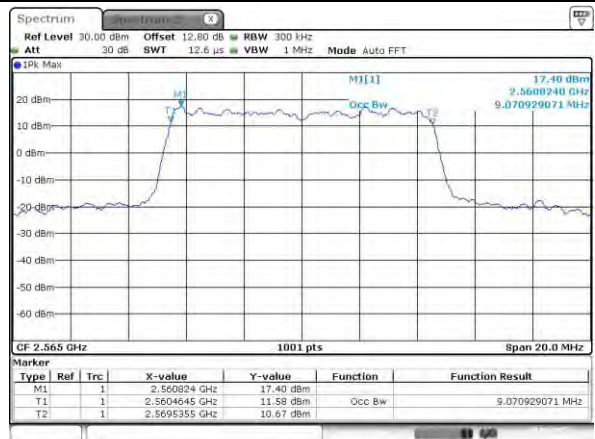
Date: 19 MAY 2015 06:07:36

Highest Channel / 10MHz / QPSK



Date: 19 MAY 2015 06:10:31

Highest Channel / 10MHz / 16QAM

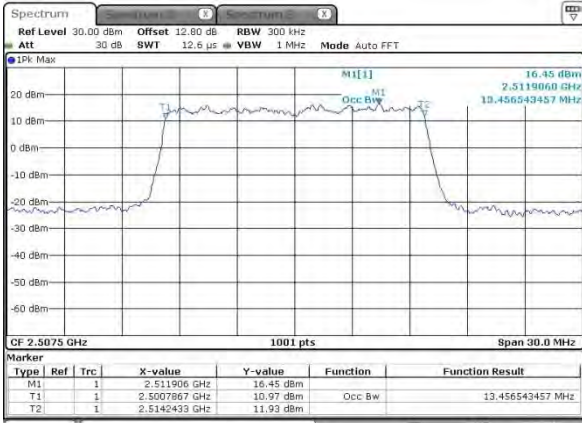


Date: 19 MAY 2015 06:10:42



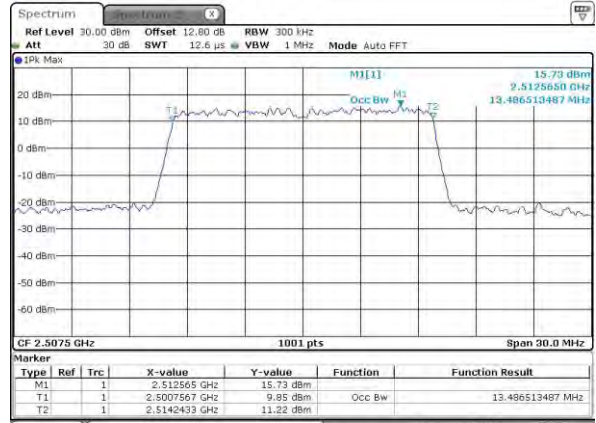
LTE Band 7

Lowest Channel / 15MHz / QPSK



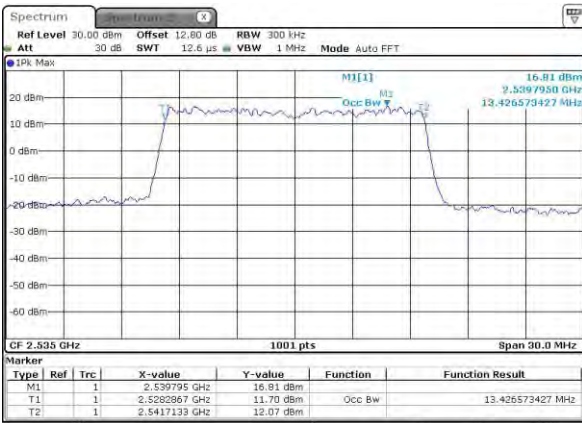
Date: 9 JUN 2015 15:20:27

Lowest Channel / 15MHz / 16QAM



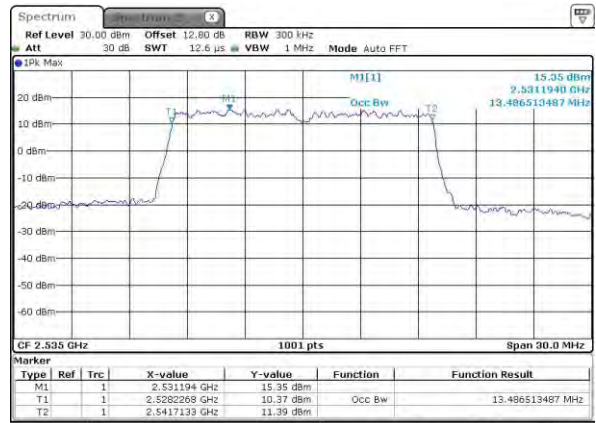
Date: 19 MAY 2015 08:18:32

Middle Channel / 15MHz / QPSK



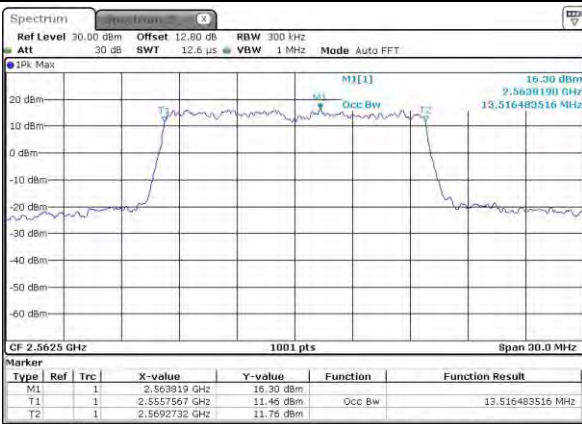
Date: 19 MAY 2015 06:26:06

Middle Channel / 15MHz / 16QAM



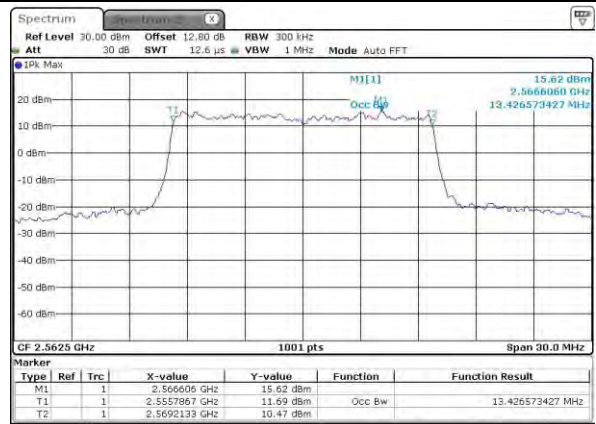
Date: 19 MAY 2015 06:28:17

Highest Channel / 15MHz / QPSK



Date: 19 MAY 2015 06:29:12

Highest Channel / 15MHz / 16QAM

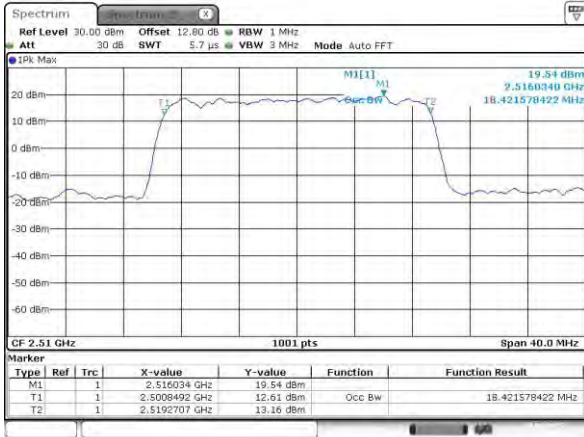


Date: 19 MAY 2015 06:29:23



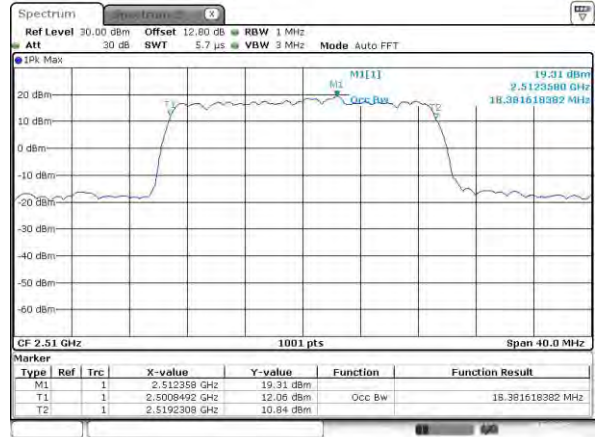
LTE Band 7

Lowest Channel / 20MHz / QPSK



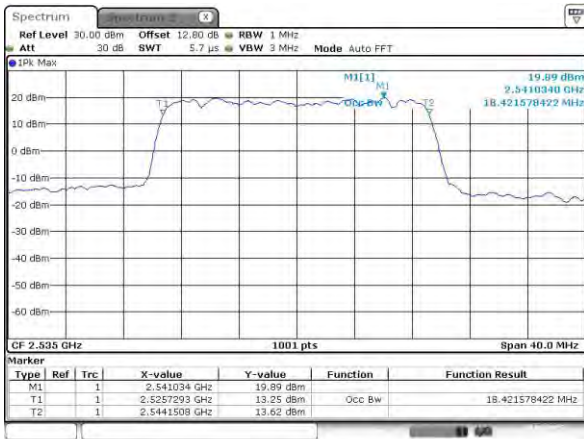
Date: 19 MAY 2015 06:37:02

Lowest Channel / 20MHz / 16QAM



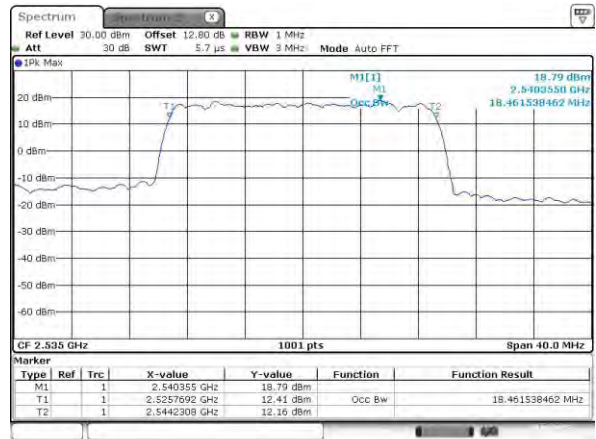
Date: 19 MAY 2015 06:37:13

Middle Channel / 20MHz / QPSK



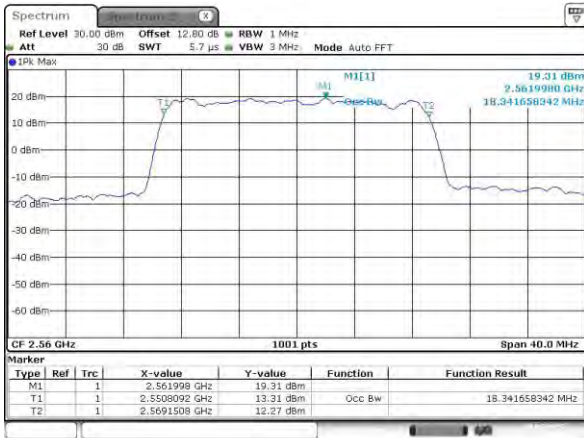
Date: 19 MAY 2015 06:44:47

Middle Channel / 20MHz / 16QAM



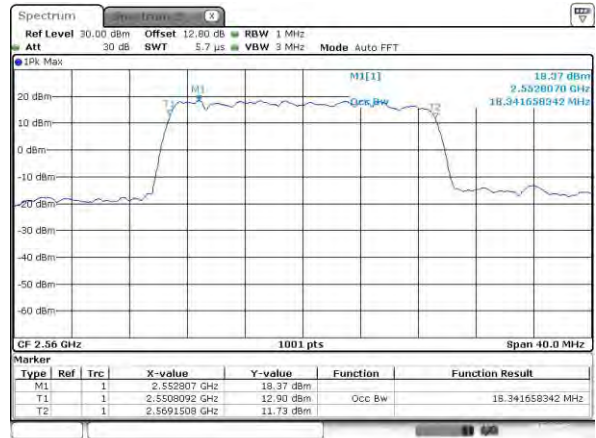
Date: 19 MAY 2015 06:44:58

Highest Channel / 20MHz / QPSK



Date: 19 MAY 2015 06:47:53

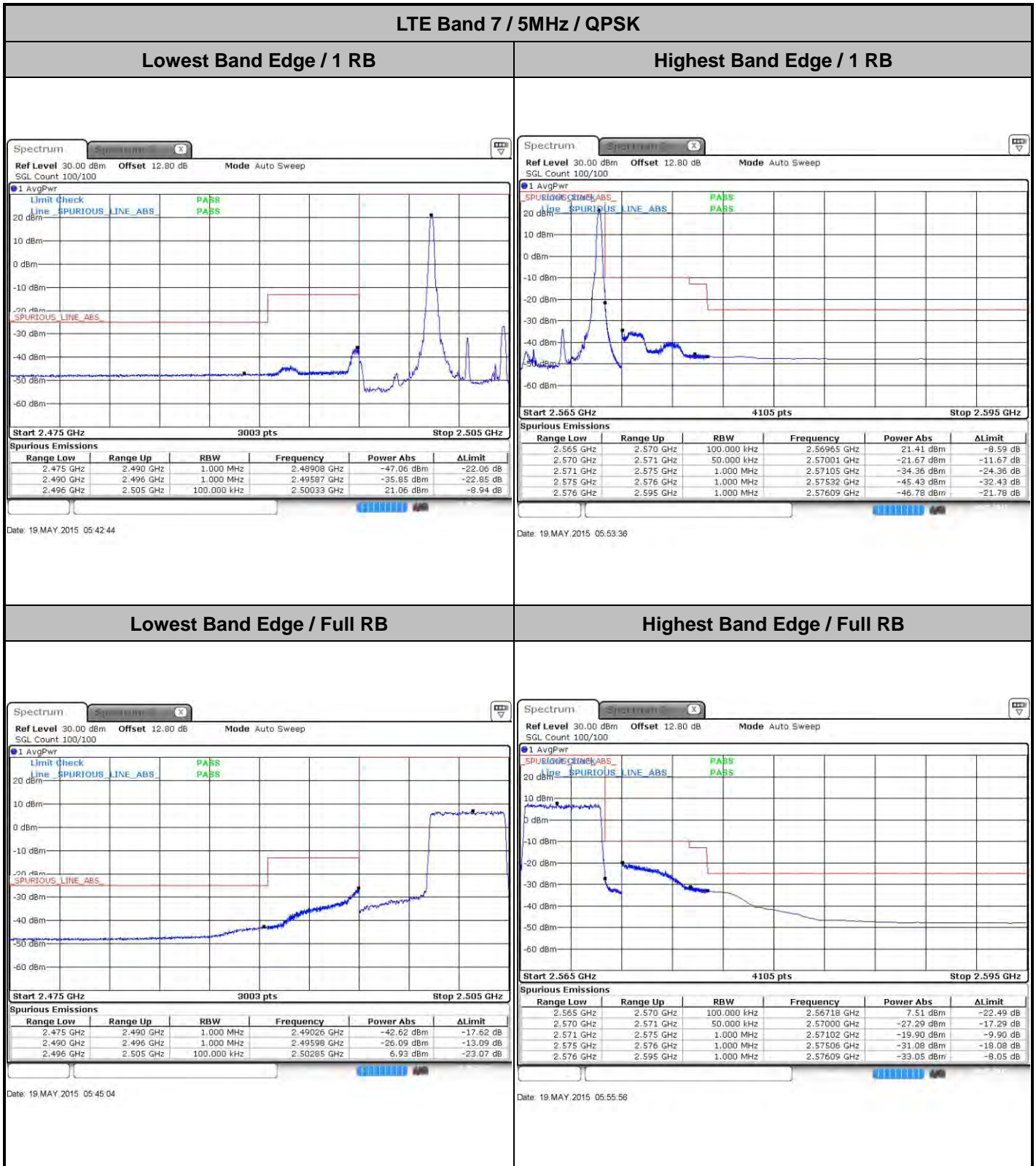
Highest Channel / 20MHz / 16QAM



Date: 19 MAY 2015 06:48:04



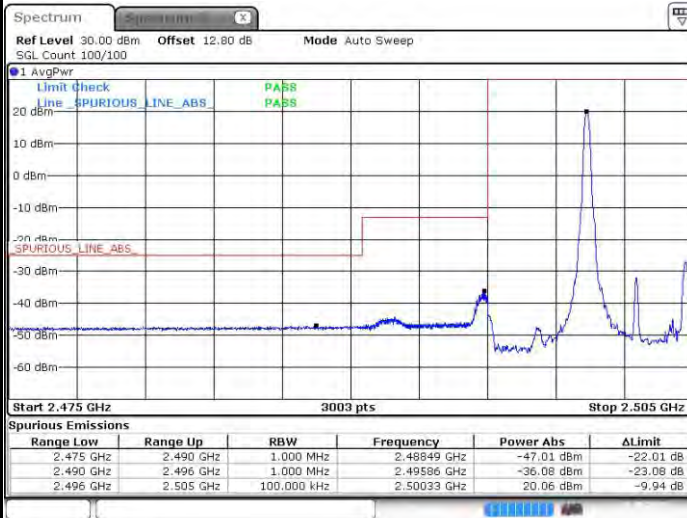
# Conducted Band Edge





LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



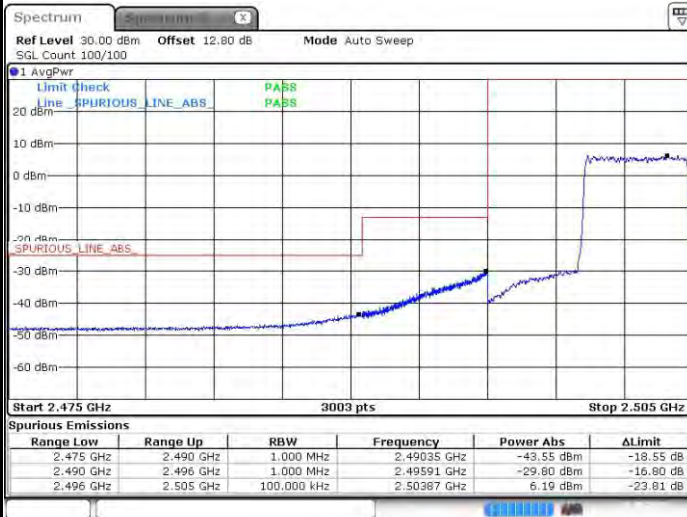
Date: 19.MAY.2015 05:43:54

Highest Band Edge / 1 RB



Date: 19.MAY.2015 05:54:46

Lowest Band Edge / Full RB



Date: 19.MAY.2015 05:46:14

Highest Band Edge / Full RB

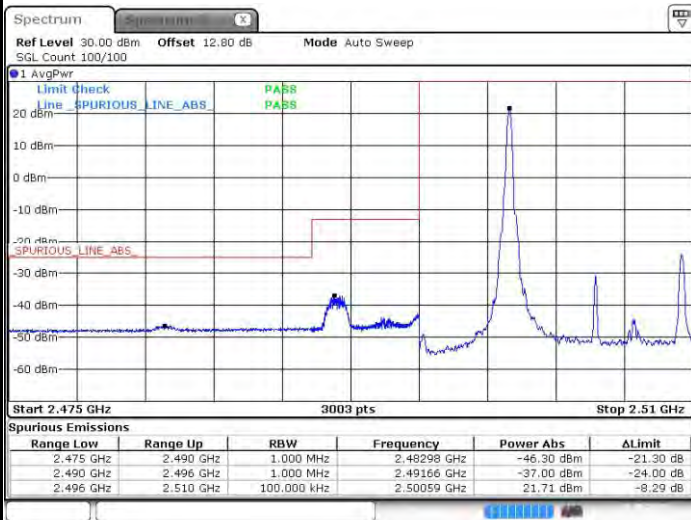


Date: 19.MAY.2015 05:57:06



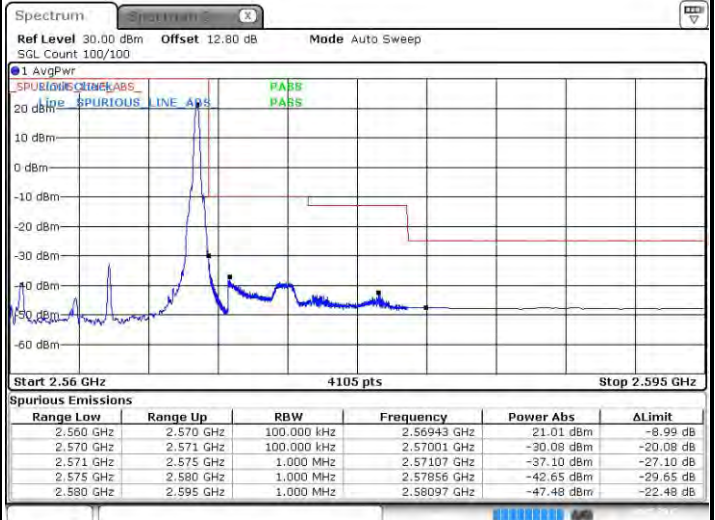
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



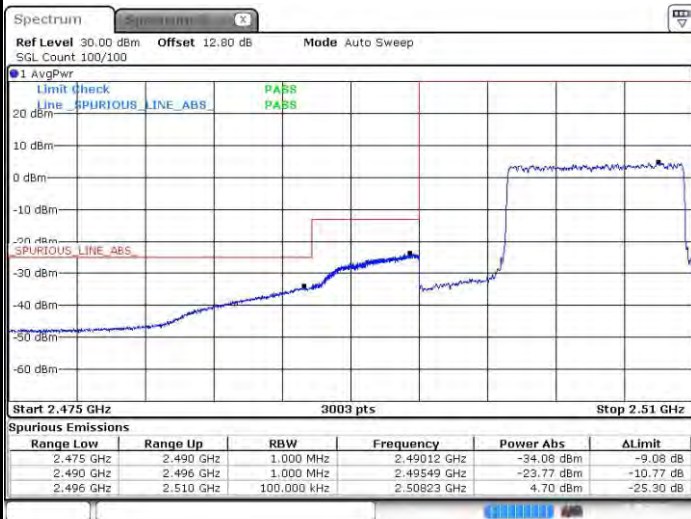
Date: 19.MAY.2015 06:01:26

Highest Band Edge / 1 RB



Date: 19.MAY.2015 06:12:16

Lowest Band Edge / Full RB



Date: 19.MAY.2015 06:03:45

Highest Band Edge / Full RB

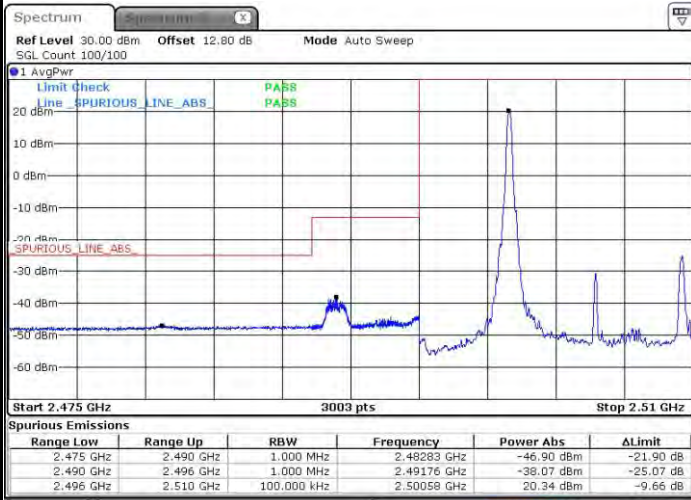


Date: 19.MAY.2015 06:14:37



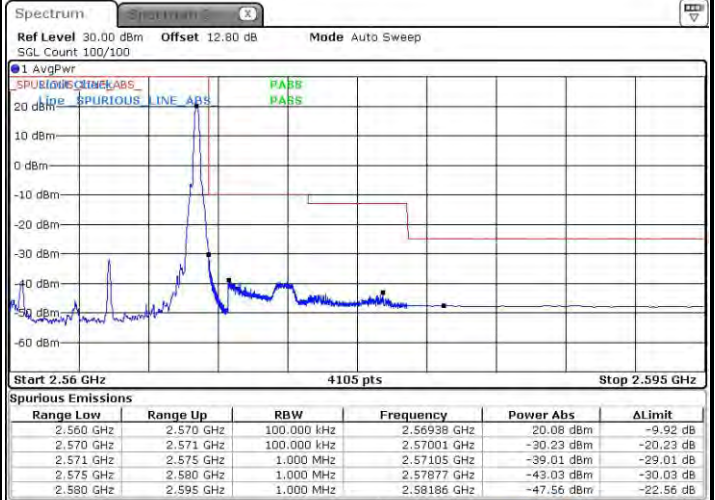
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 19.MAY.2015 06:02:36

Highest Band Edge / 1 RB



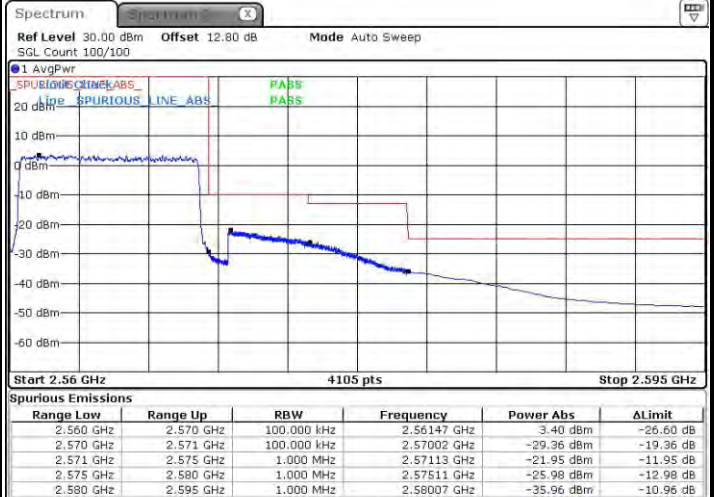
Date: 19.MAY.2015 06:13:27

Lowest Band Edge / Full RB



Date: 19.MAY.2015 06:04:55

Highest Band Edge / Full RB

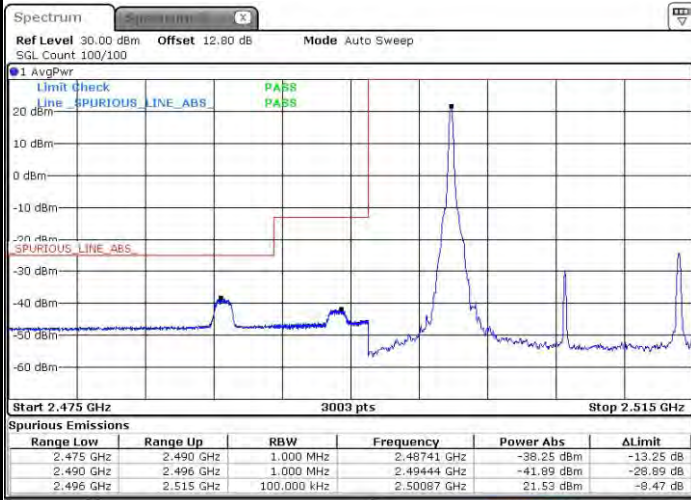


Date: 19.MAY.2015 06:15:47



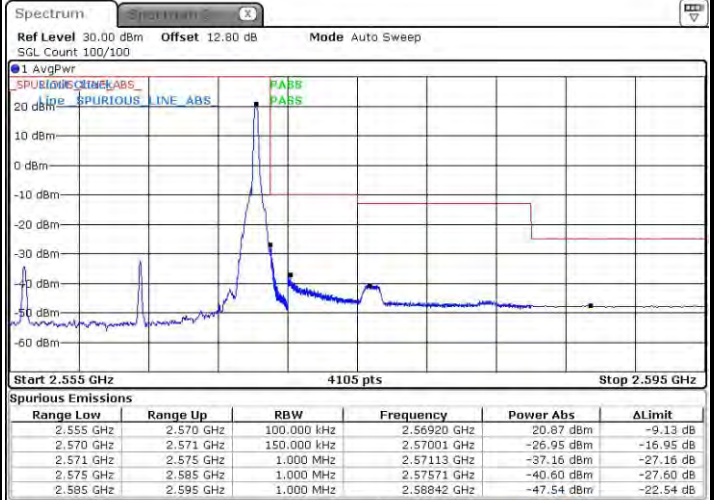
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



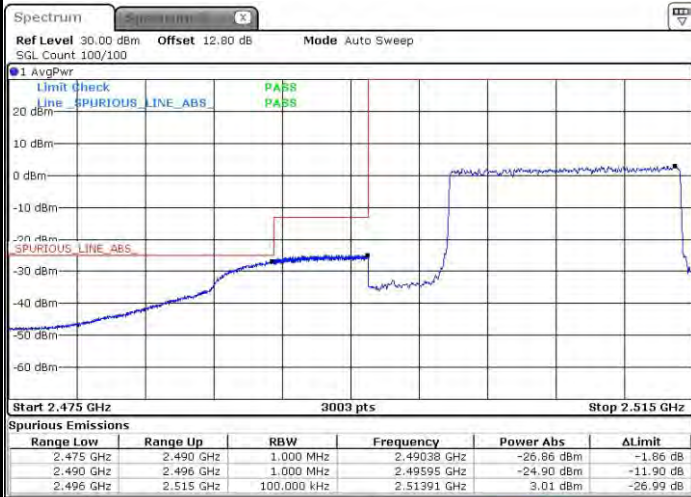
Date: 19.MAY.2015 06:20:06

Highest Band Edge / 1 RB



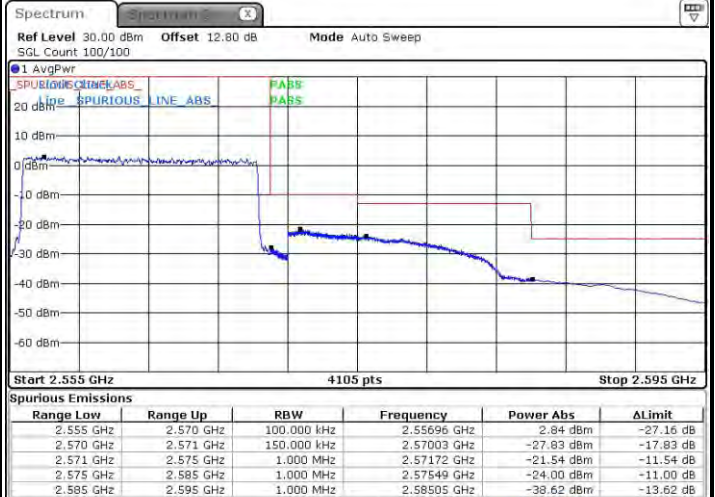
Date: 19.MAY.2015 06:30:58

Lowest Band Edge / Full RB



Date: 19.MAY.2015 06:22:26

Highest Band Edge / Full RB

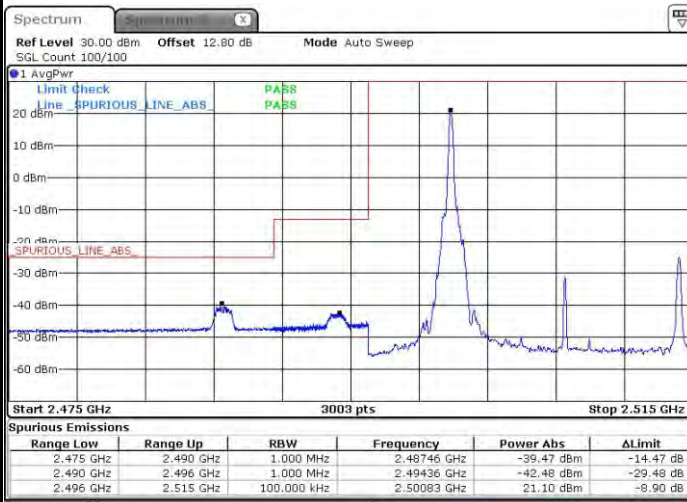


Date: 19.MAY.2015 06:33:17



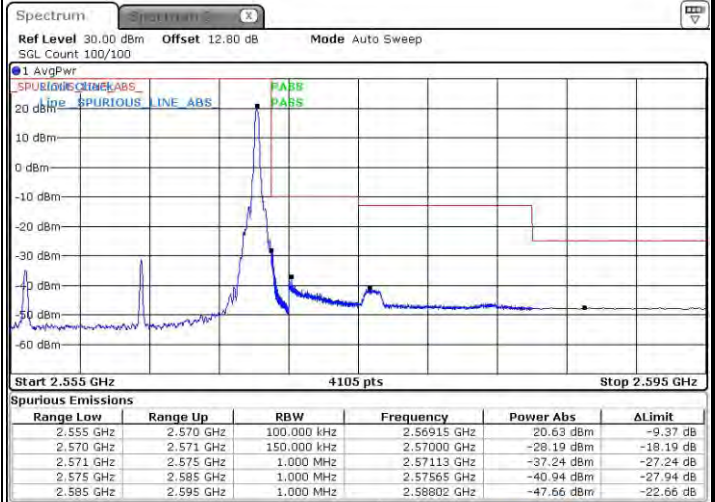
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



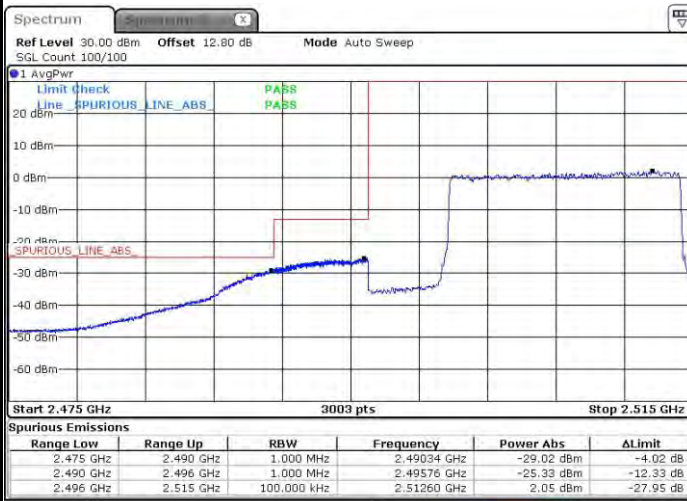
Date: 19.MAY.2015 06:21:16

Highest Band Edge / 1 RB



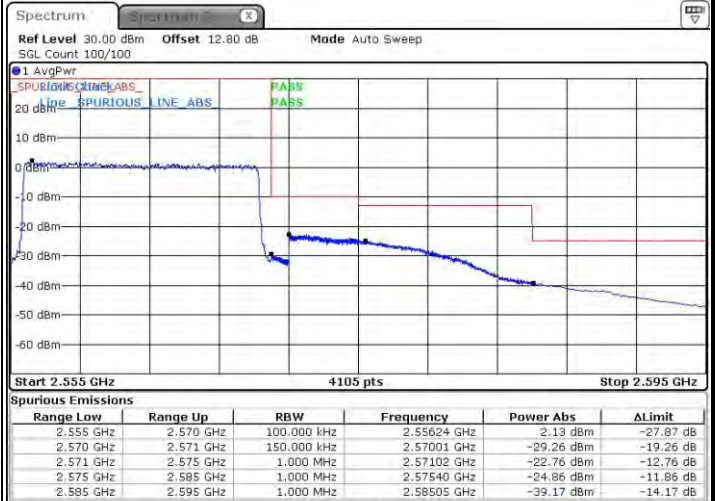
Date: 19.MAY.2015 06:32:07

Lowest Band Edge / Full RB



Date: 19.MAY.2015 06:23:36

Highest Band Edge / Full RB

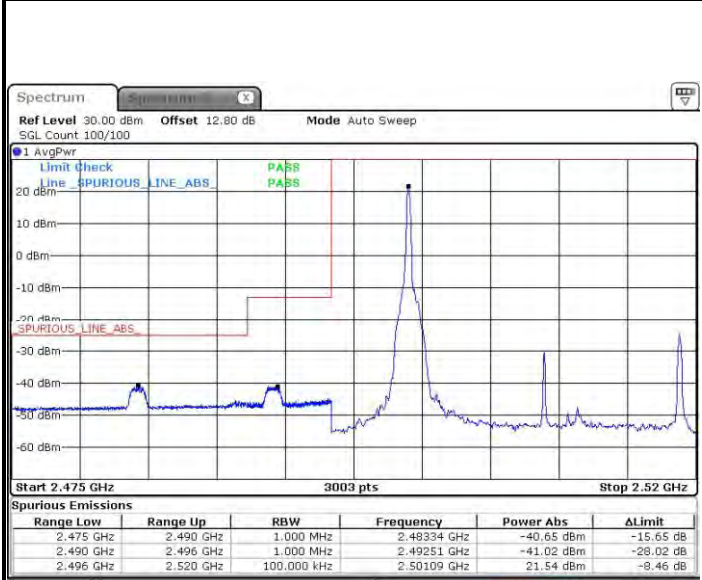


Date: 19.MAY.2015 06:34:27



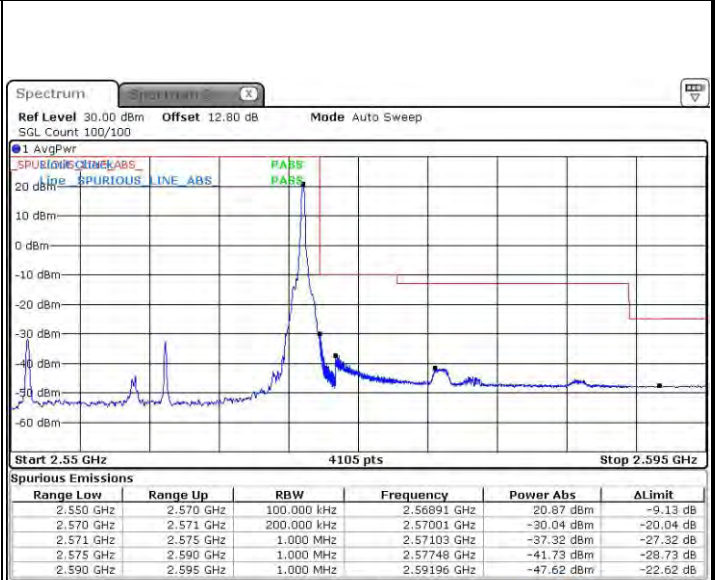
**LTE Band 7 / 20MHz / QPSK**

**Lowest Band Edge / 1 RB**



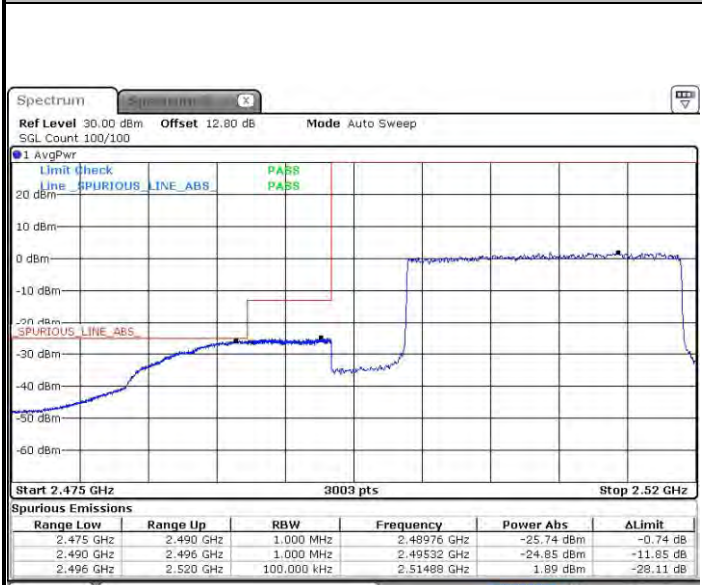
Date: 19.MAY.2015 06:38:47

**Highest Band Edge / 1 RB**



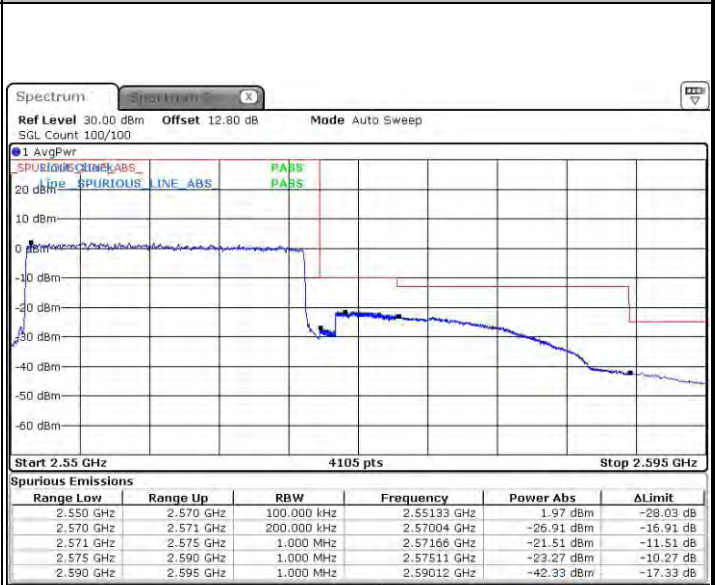
Date: 19.MAY.2015 06:49:38

**Lowest Band Edge / Full RB**



Date: 19.MAY.2015 06:41:07

**Highest Band Edge / Full RB**

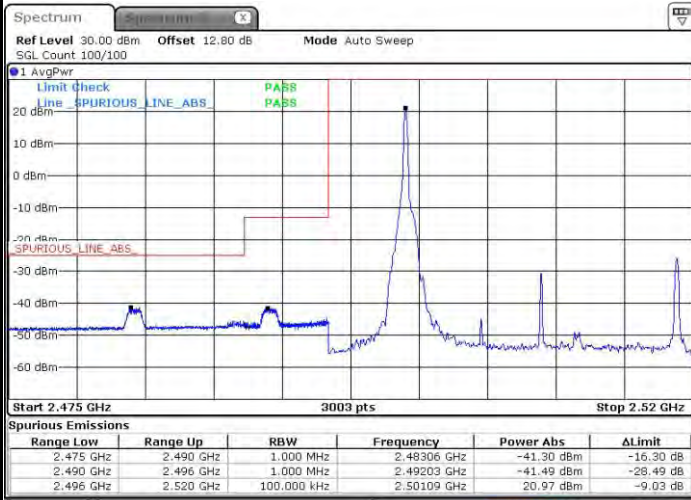


Date: 19.MAY.2015 06:53:08



LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



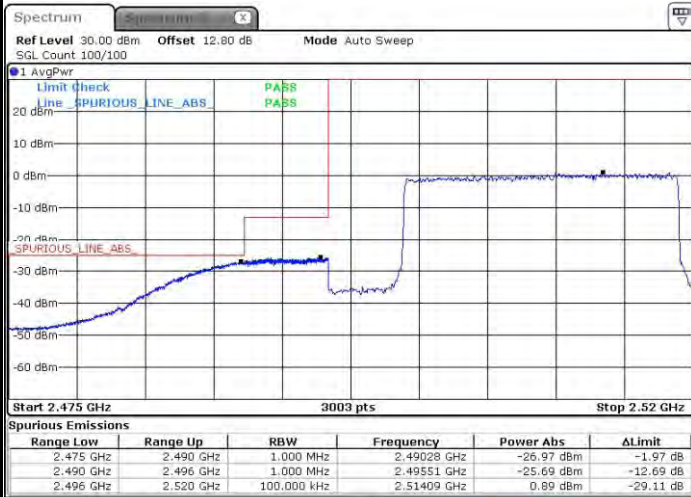
Date: 19.MAY.2015 06:39:57

Highest Band Edge / 1RB



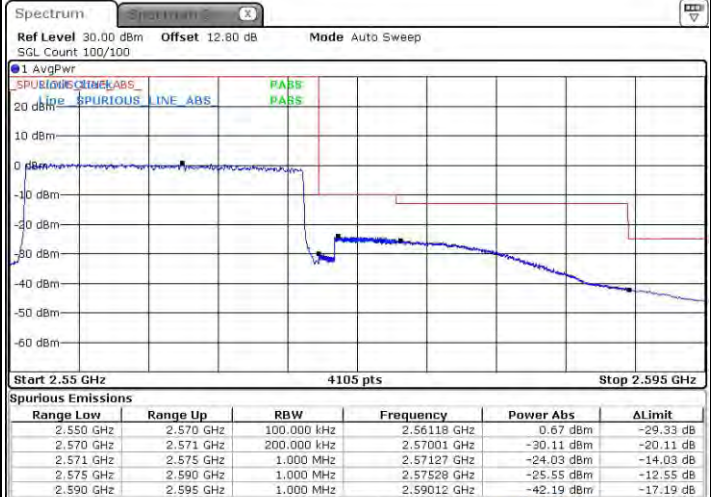
Date: 19.MAY.2015 06:50:48

Lowest Band Edge / Full RB



Date: 19.MAY.2015 06:42:16

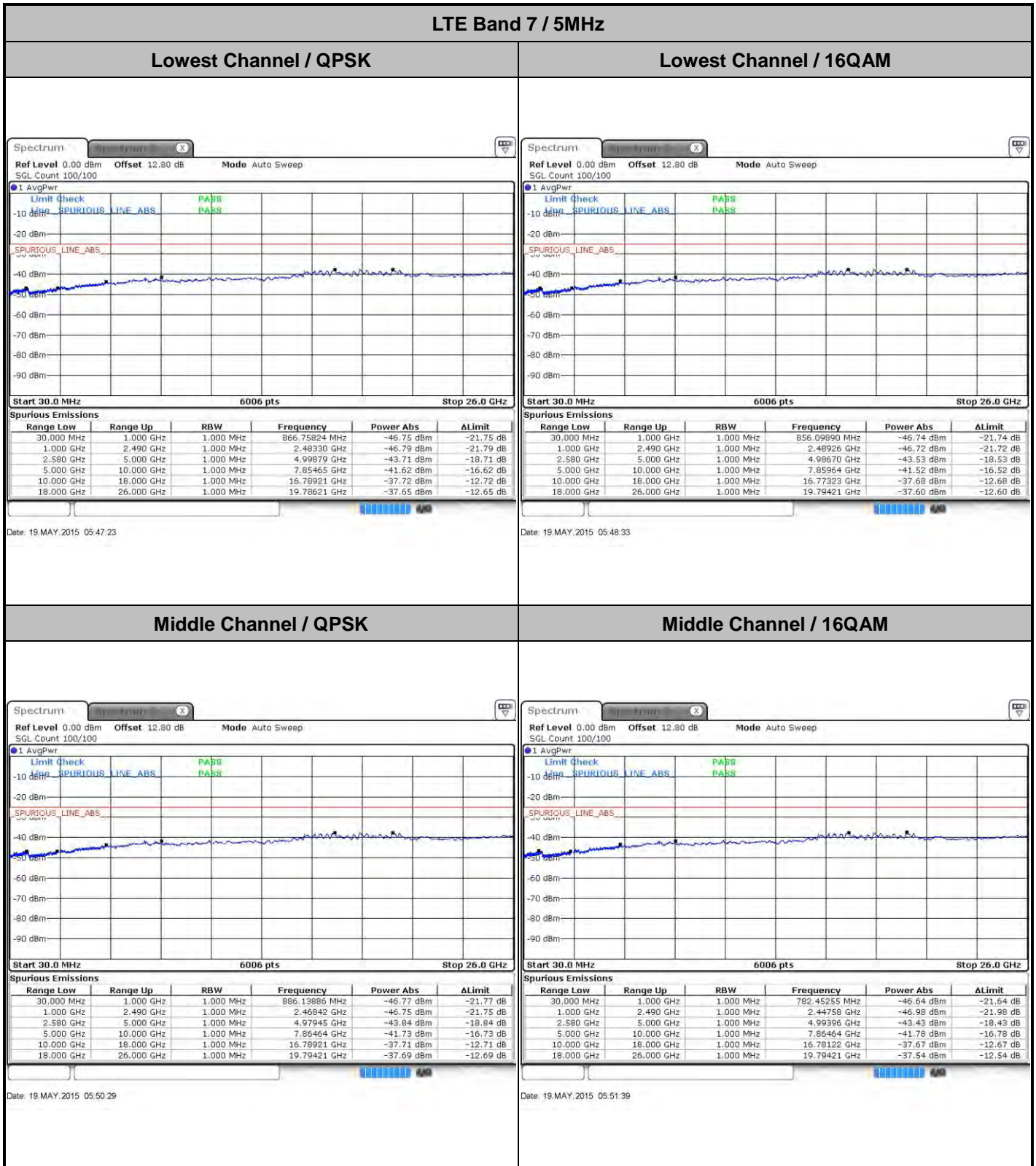
Highest Band Edge / Full RB



Date: 19.MAY.2015 06:51:58



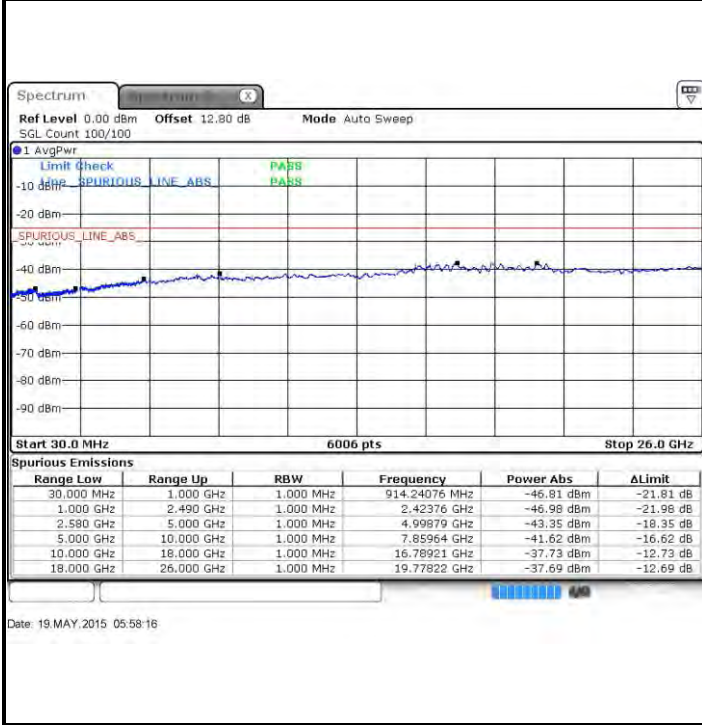
# Conducted Spurious Emission





LTE Band 7 / 5MHz

Highest Channel / QPSK

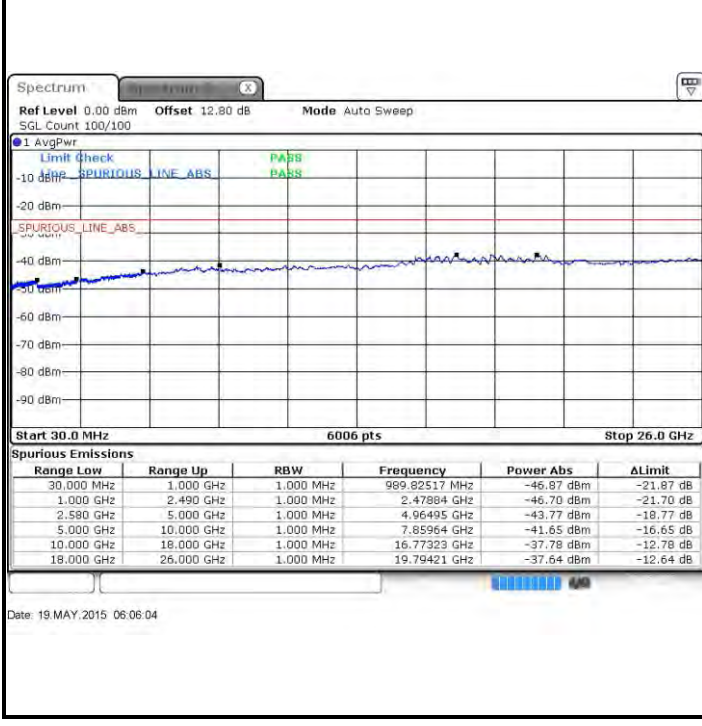


Highest Channel / 16QAM

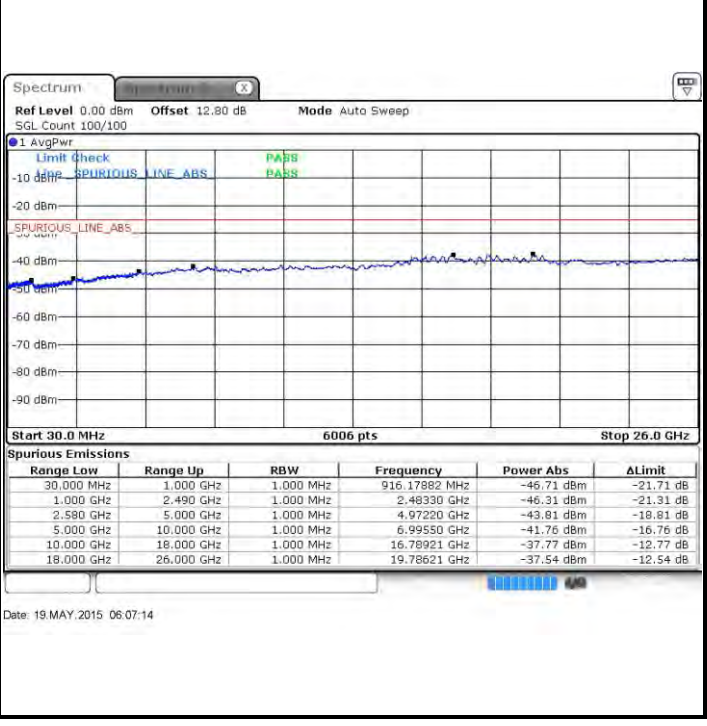


LTE Band 7 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

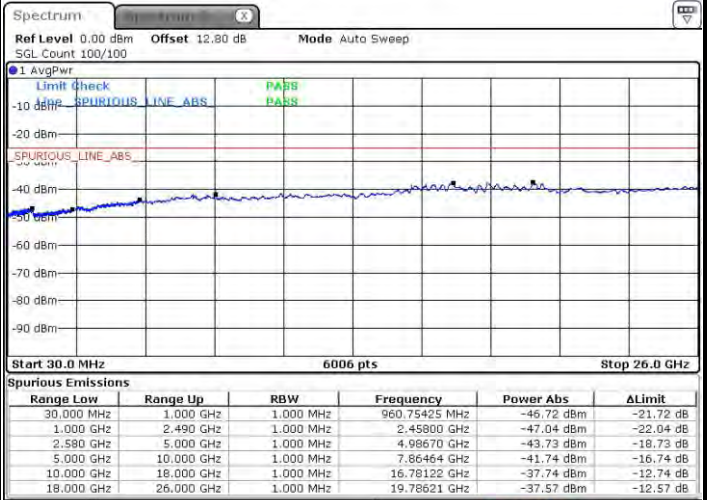
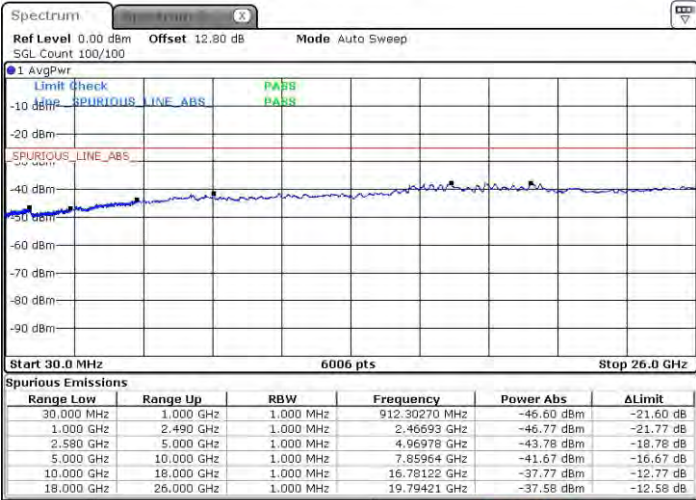




LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

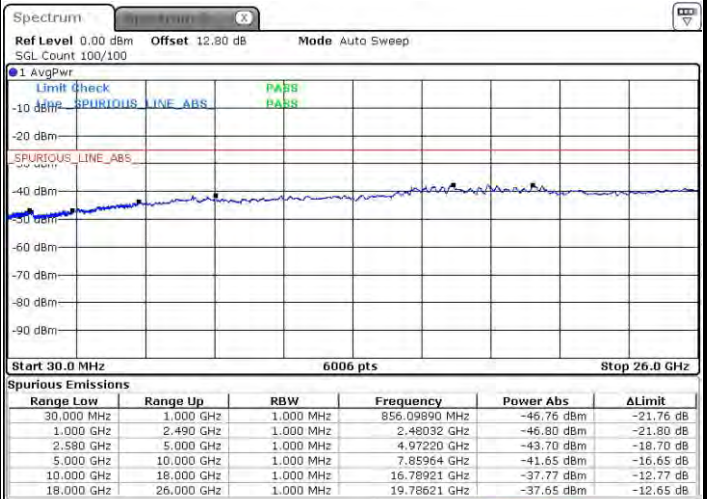
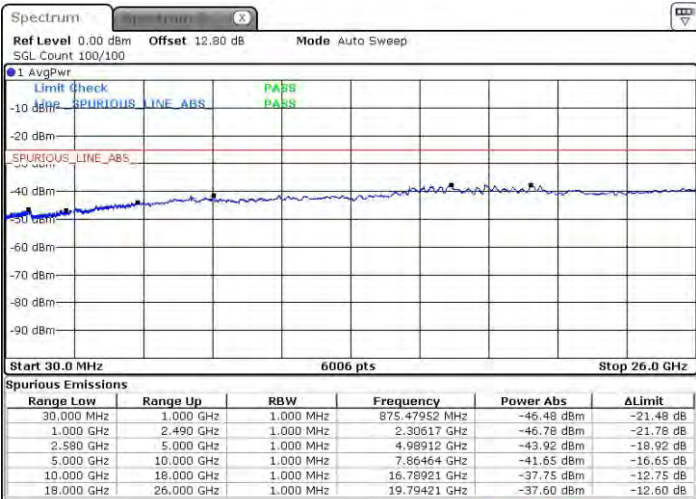


Date: 19.MAY.2015 06:09:10

Date: 19.MAY.2015 06:10:20

Highest Channel / QPSK

Highest Channel / 16QAM



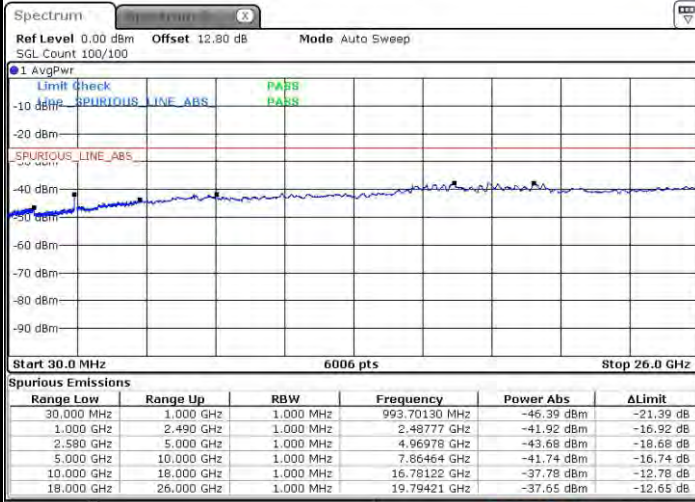
Date: 19.MAY.2015 06:16:56

Date: 19.MAY.2015 06:18:06



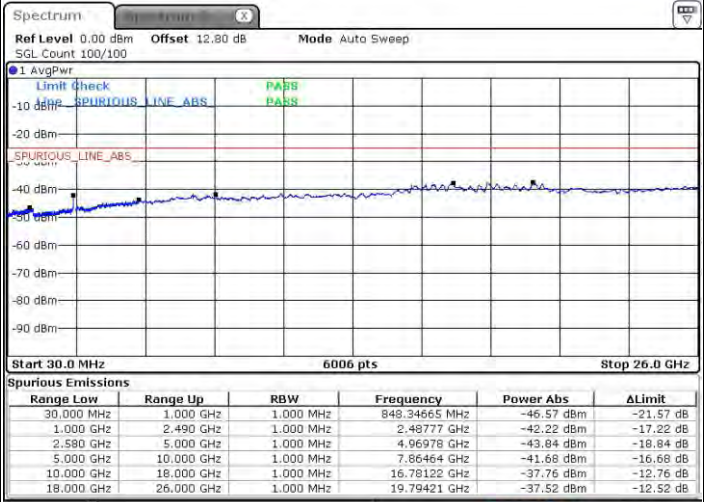
LTE Band 7 / 15MHz

Lowest Channel / QPSK



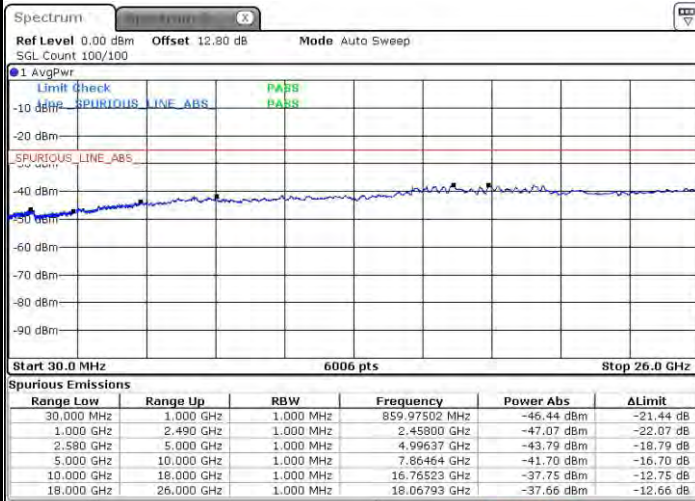
Date: 19.MAY.2015 06:24:45

Lowest Channel / 16QAM



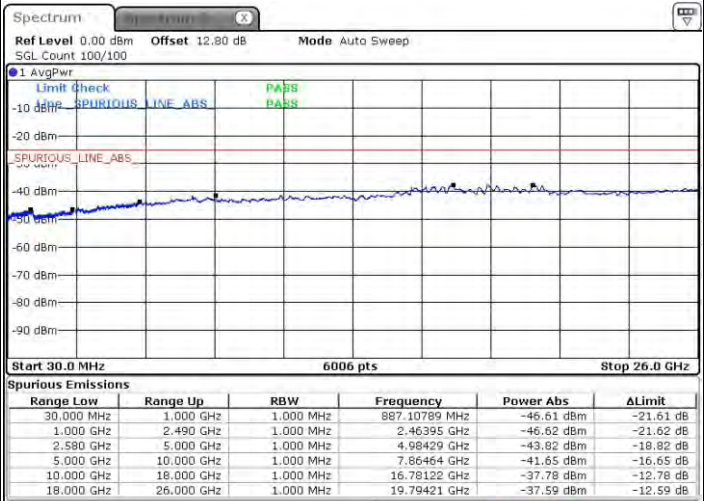
Date: 19.MAY.2015 06:25:55

Middle Channel / QPSK



Date: 19.MAY.2015 06:27:51

Middle Channel / 16QAM

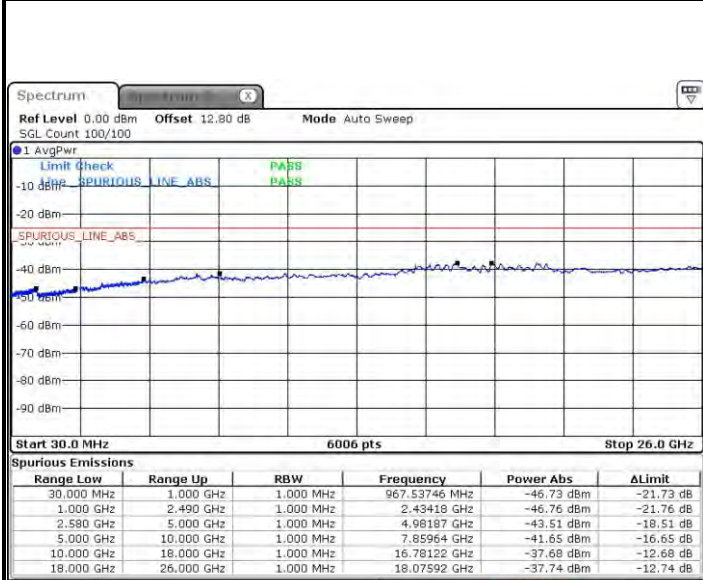


Date: 19.MAY.2015 06:29:01



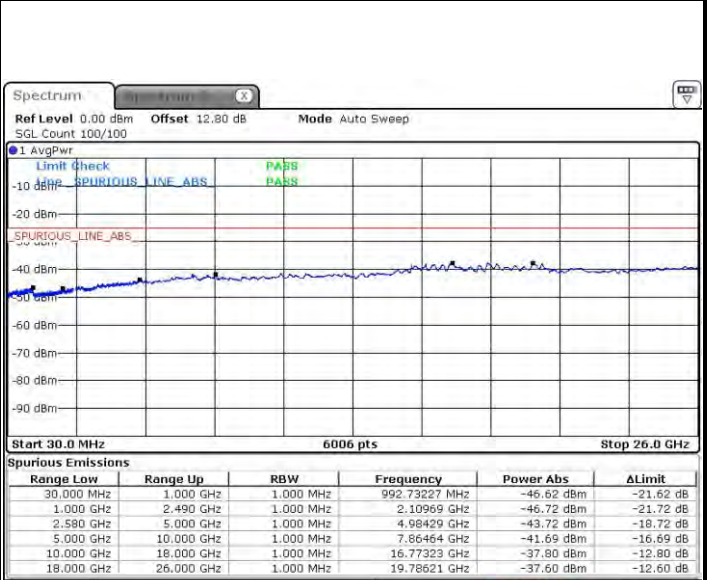
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 19.MAY.2015 06:35:37

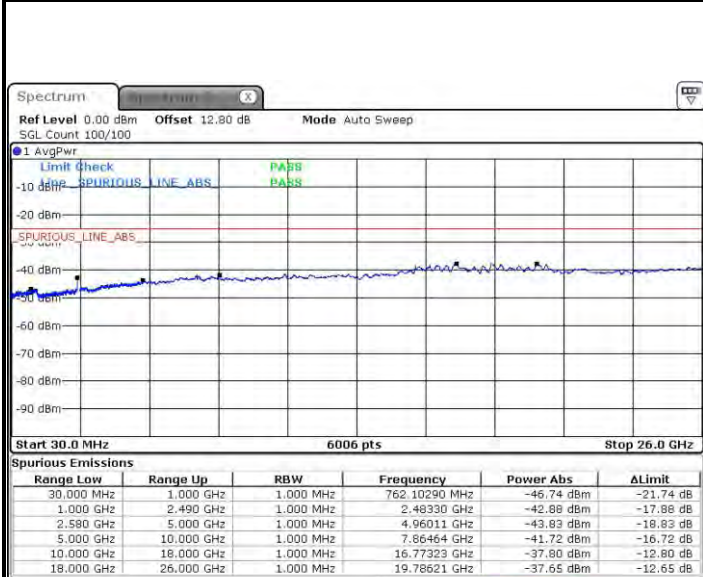
Highest Channel / 16QAM



Date: 19.MAY.2015 06:36:46

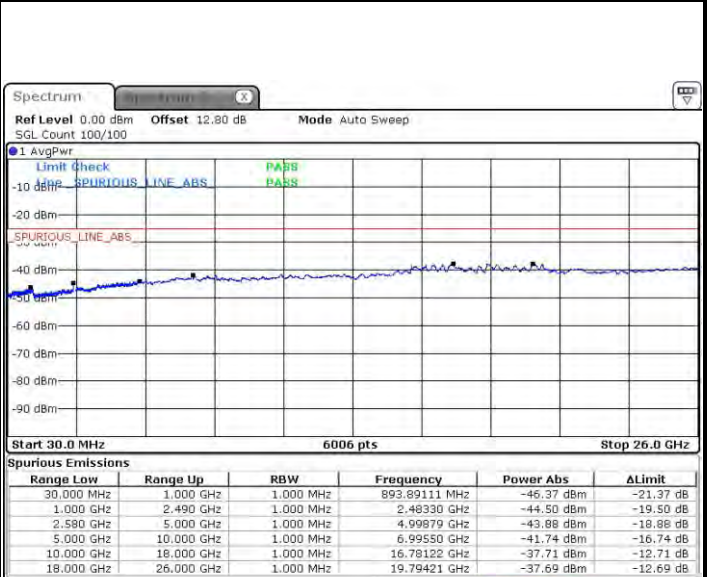
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 19.MAY.2015 06:43:26

Lowest Channel / 16QAM



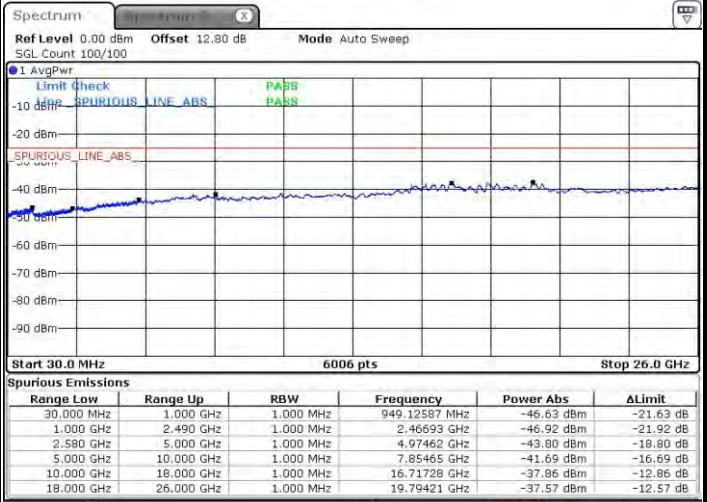
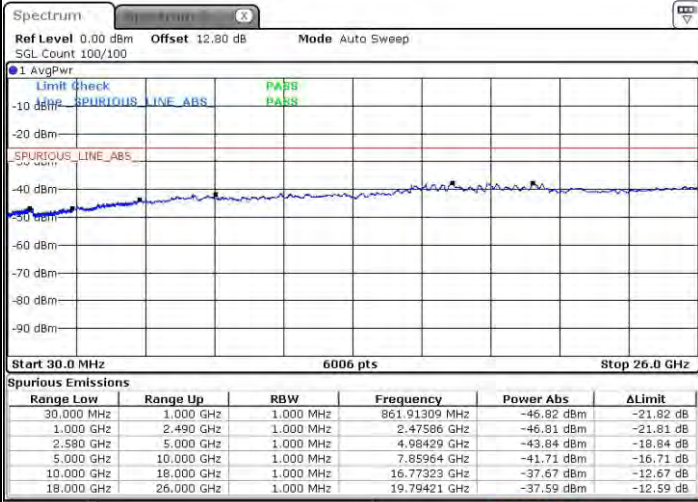
Date: 19.MAY.2015 06:44:35



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

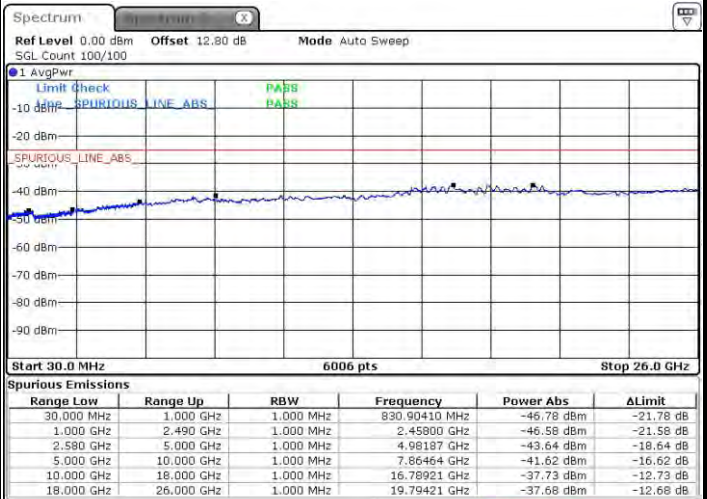
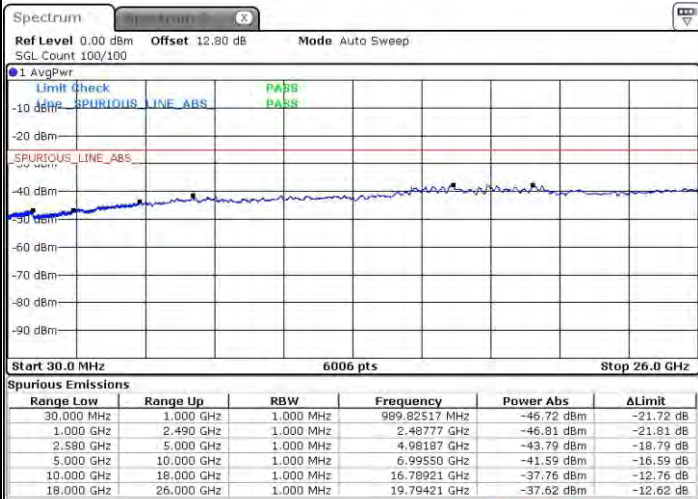


Date: 19.MAY.2015 06:46:32

Date: 19.MAY.2015 06:47:41

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.MAY.2015 06:54:17

Date: 19.MAY.2015 06:55:27



### Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0042	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0046	
0	Normal Voltage	0.0040	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0047	
20	Maximum Voltage	0.0055	
20	Normal Voltage	0.0052	
20	Battery End Point	0.0059	

**Note:**

1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## LTE Band 13

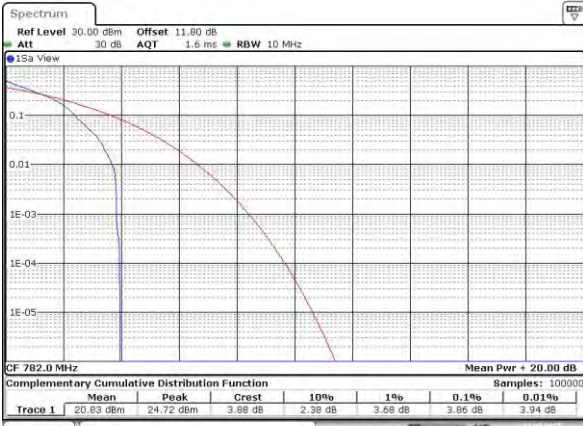
### Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	<b>PASS</b>
Middle CH	3.86	4.87	4.49	5.8	
Highest CH	-	-	-	-	



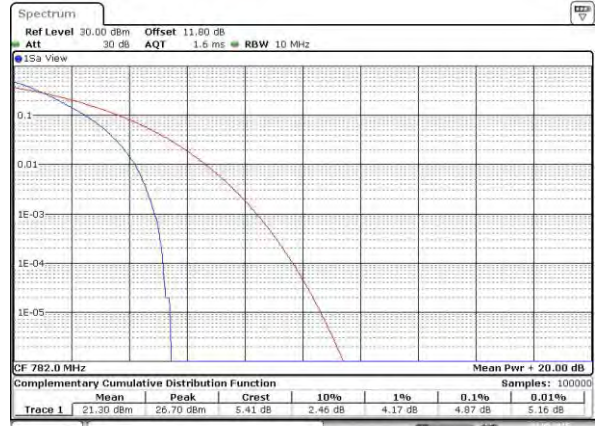
LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Date: 22.MAY.2015 09:28:09

Middle Channel / Full RB



Date: 22.MAY.2015 09:28:29

LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Date: 22.MAY.2015 09:27:46

Middle Channel / Full RB



Date: 22.MAY.2015 09:27:58