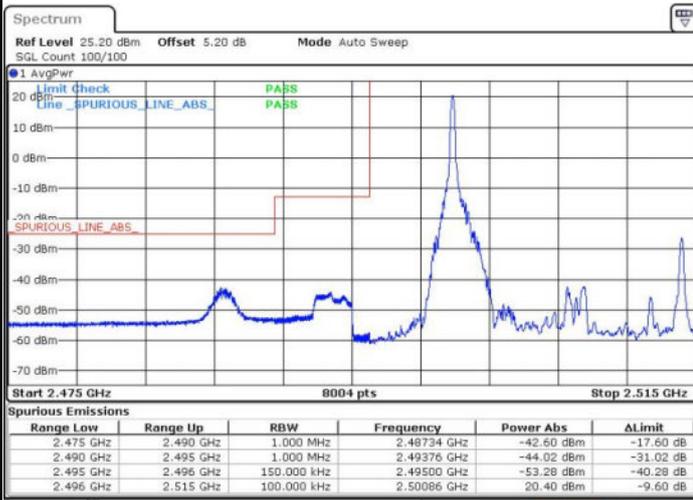




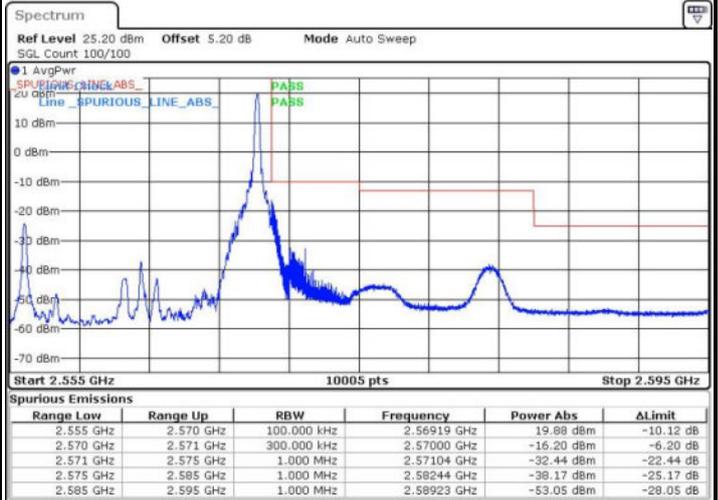
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



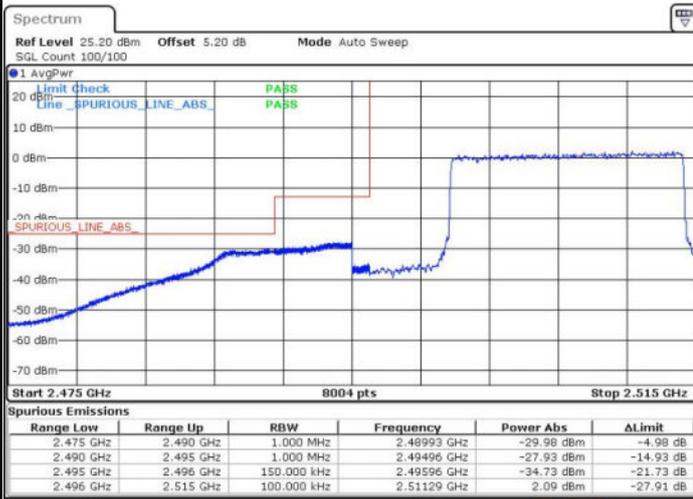
Date: 10 JUN 2016 15:35:39

Highest Band Edge / 1 RB



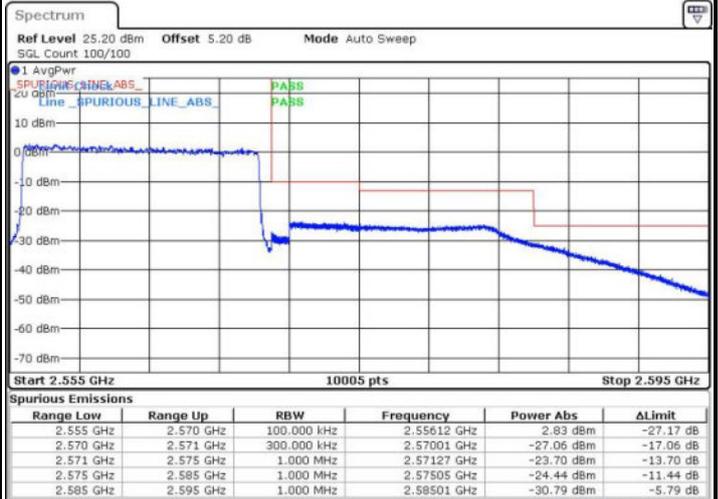
Date: 10 JUN 2016 15:43:44

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:39:07

Highest Band Edge / Full RB

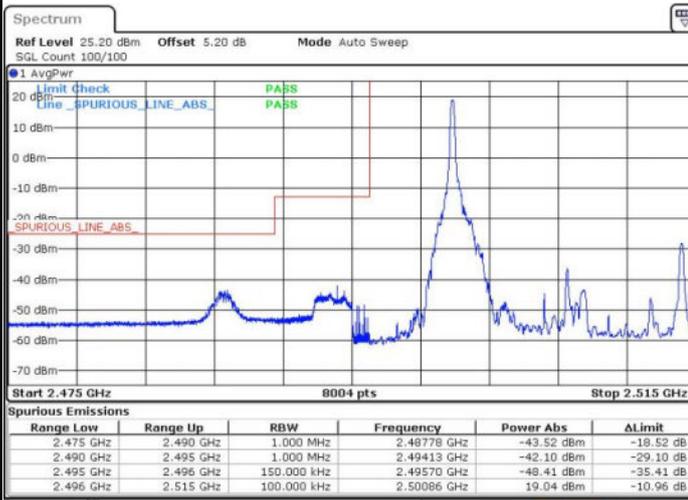


Date: 10 JUN 2016 15:40:16



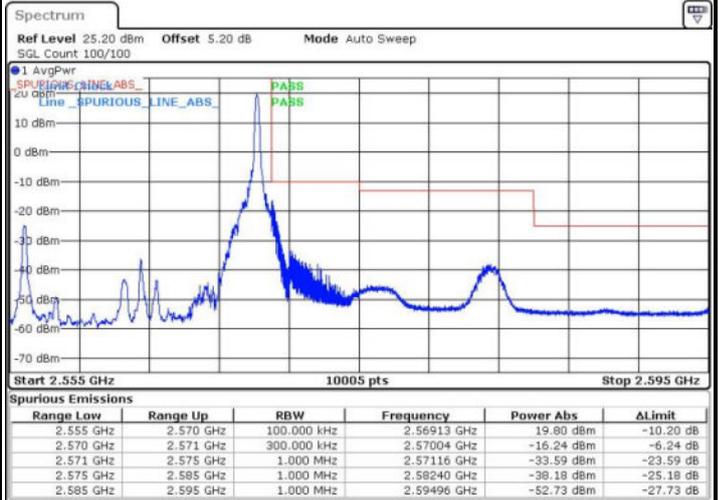
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



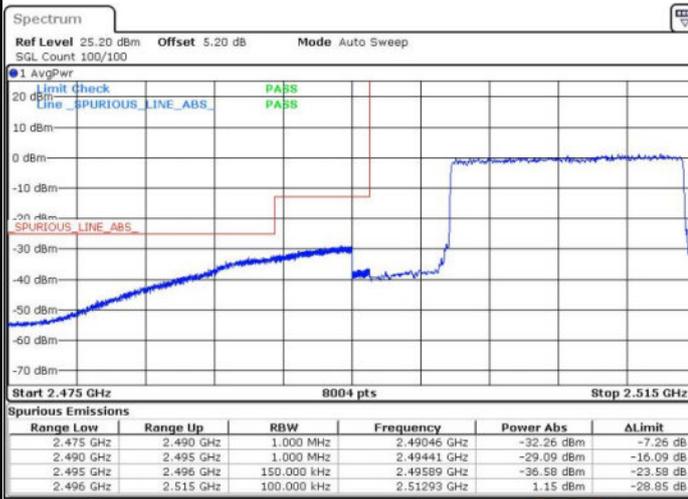
Date: 10 JUN 2016 15:36:48

Highest Band Edge / 1 RB



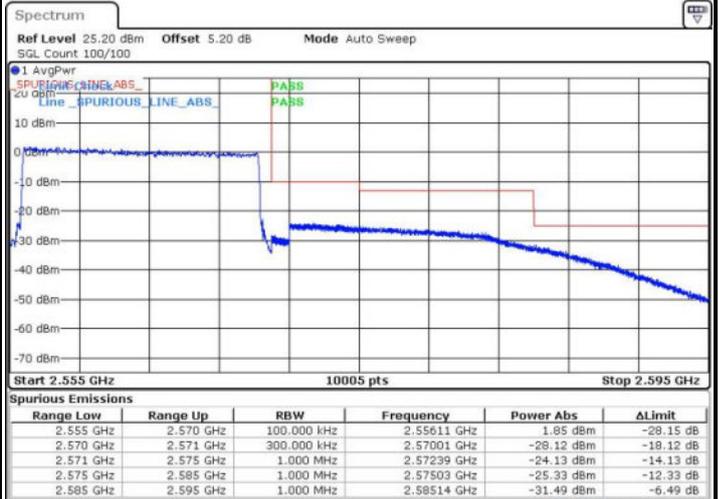
Date: 10 JUN 2016 15:42:35

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:37:58

Highest Band Edge / Full RB

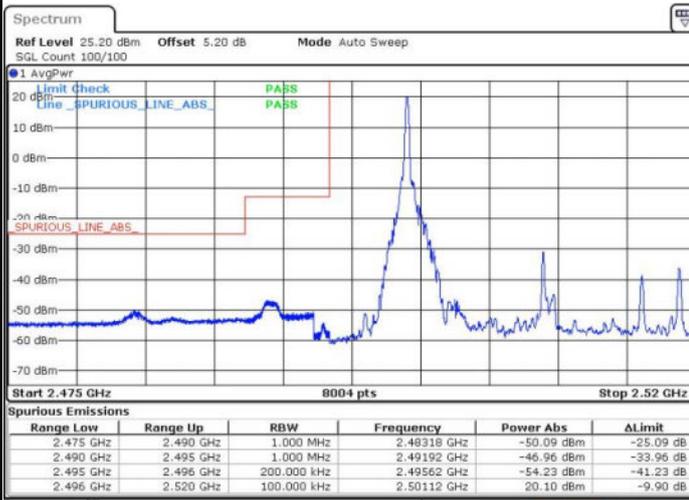


Date: 10 JUN 2016 15:41:26



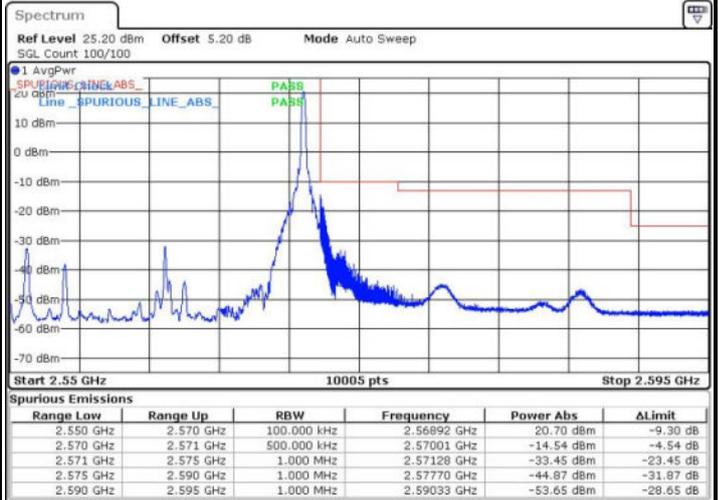
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



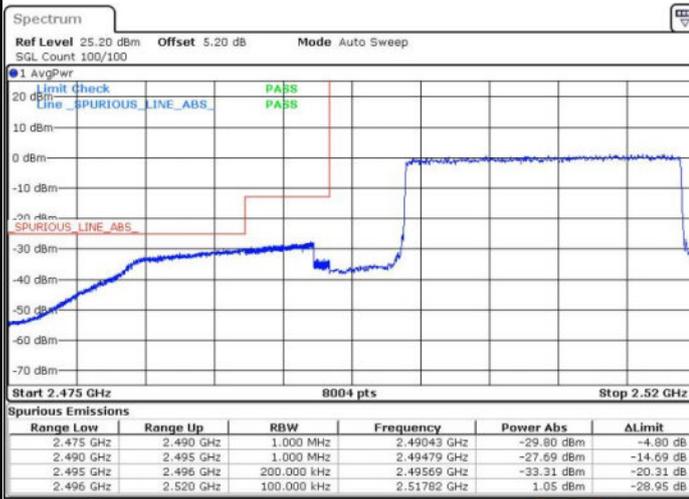
Date: 10 JUN 2016 15:52:35

Highest Band Edge / 1 RB



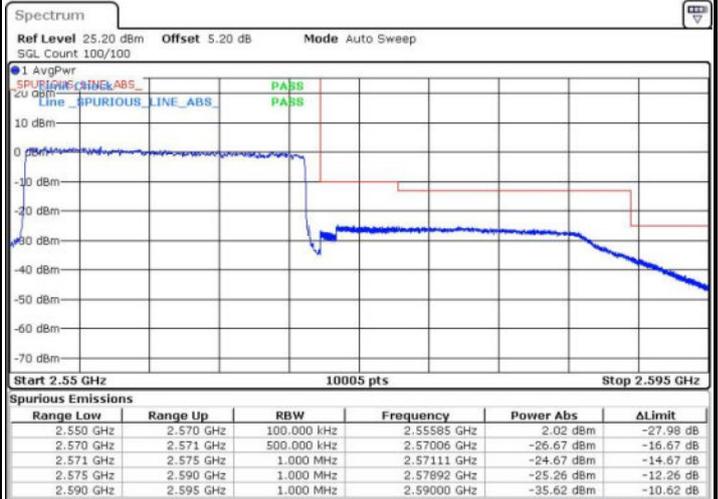
Date: 10 JUN 2016 16:00:39

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:56:02

Highest Band Edge / Full RB

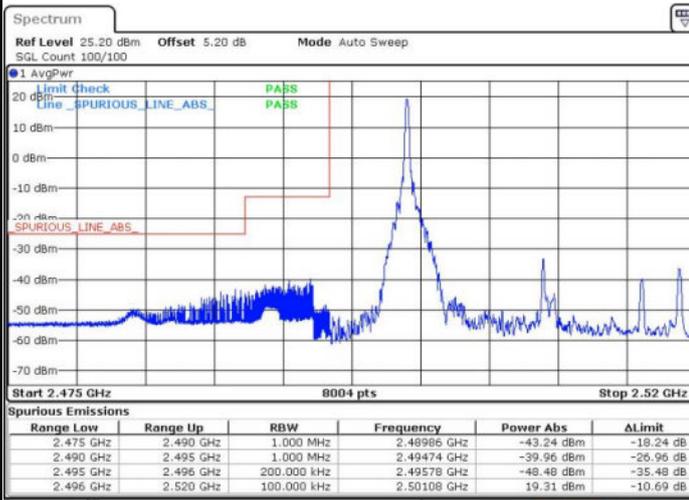


Date: 10 JUN 2016 15:57:11



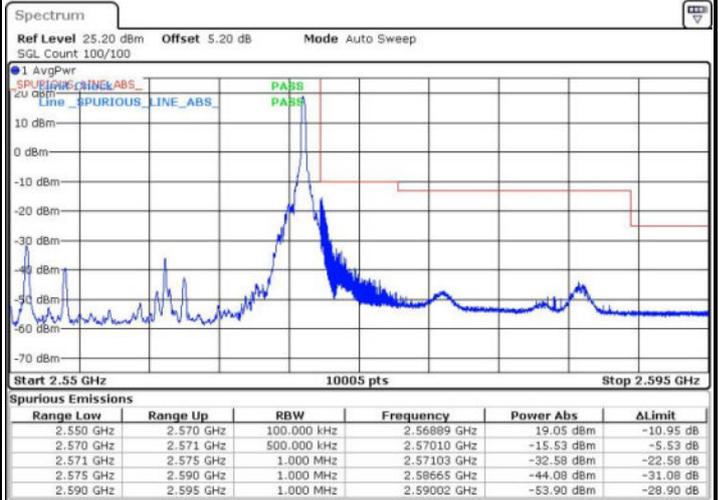
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



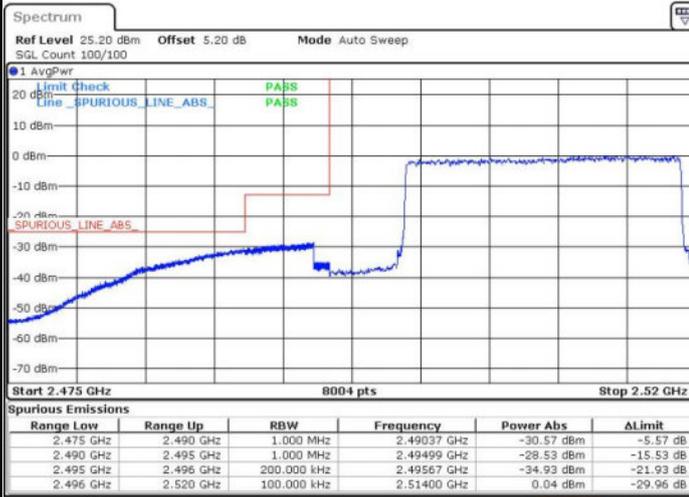
Date: 10 JUN 2016 15:53:44

Highest Band Edge / 1RB



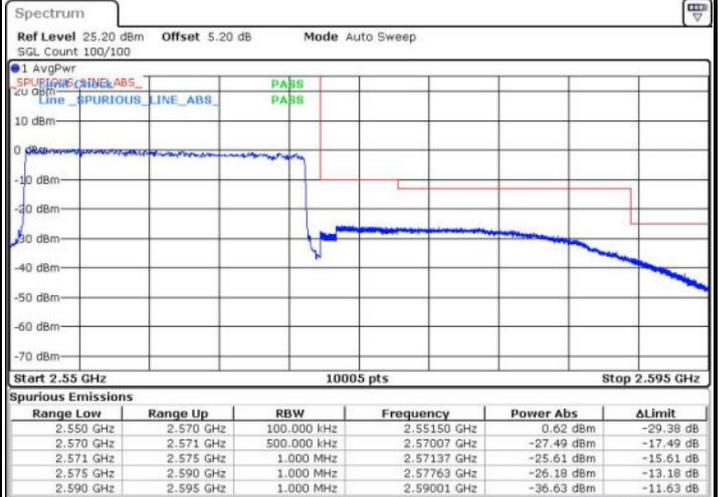
Date: 10 JUN 2016 15:59:30

Lowest Band Edge / Full RB



Date: 10 JUN 2016 15:54:53

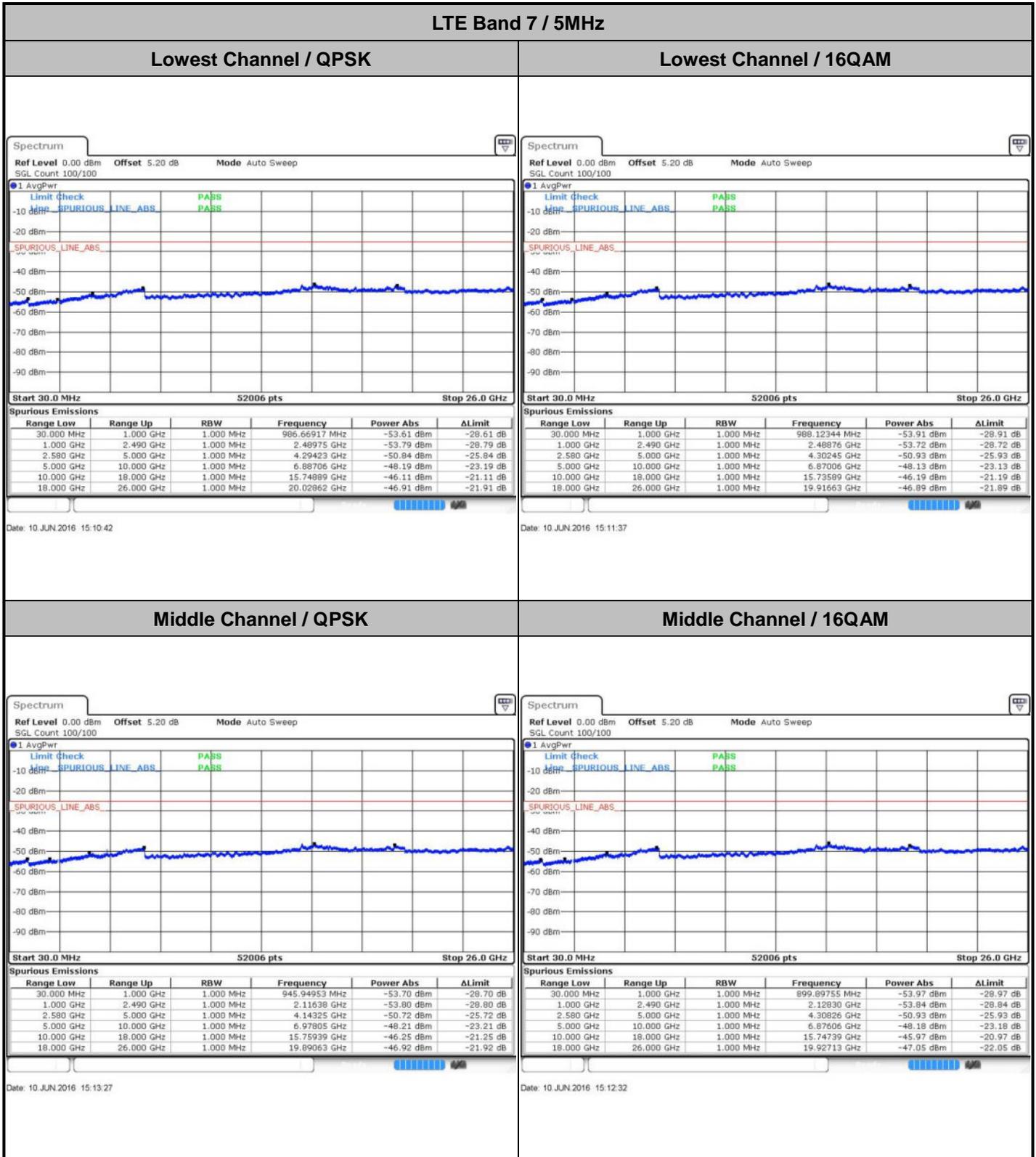
Highest Band Edge / Full RB



Date: 10 JUN 2016 15:58:21



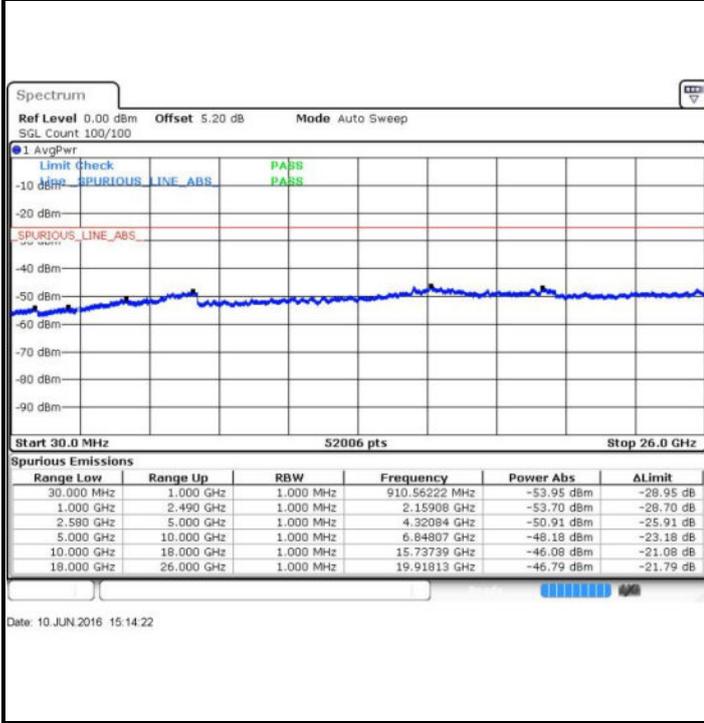
Conducted Spurious Emission



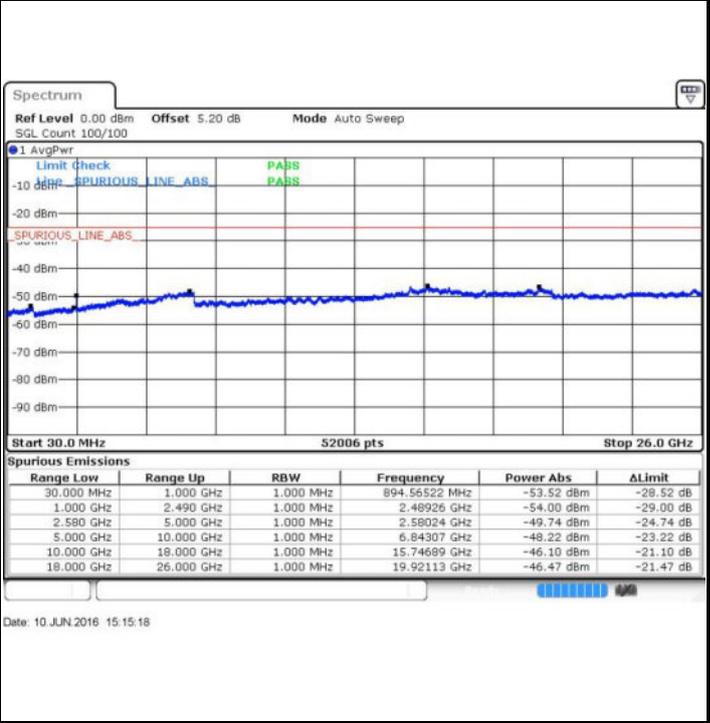


LTE Band 7 / 5MHz

Highest Channel / QPSK

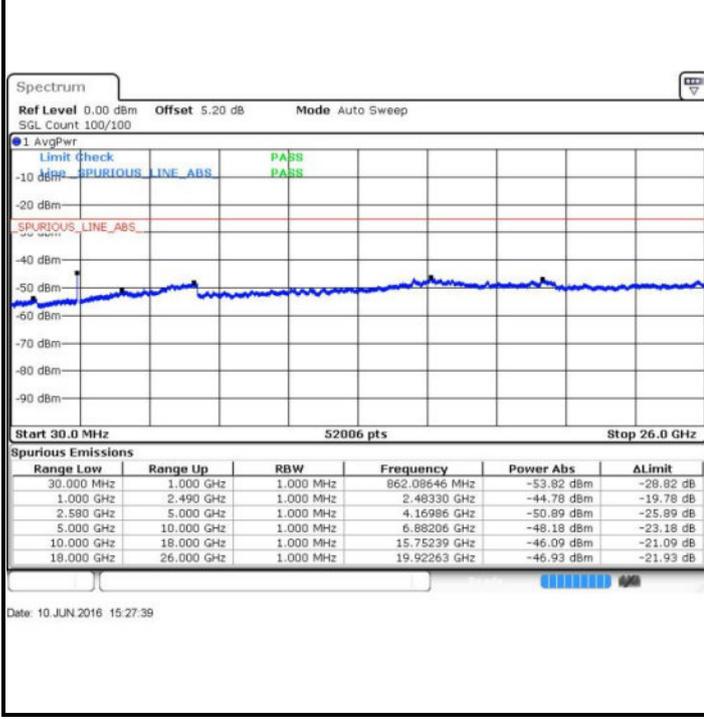


Highest Channel / 16QAM

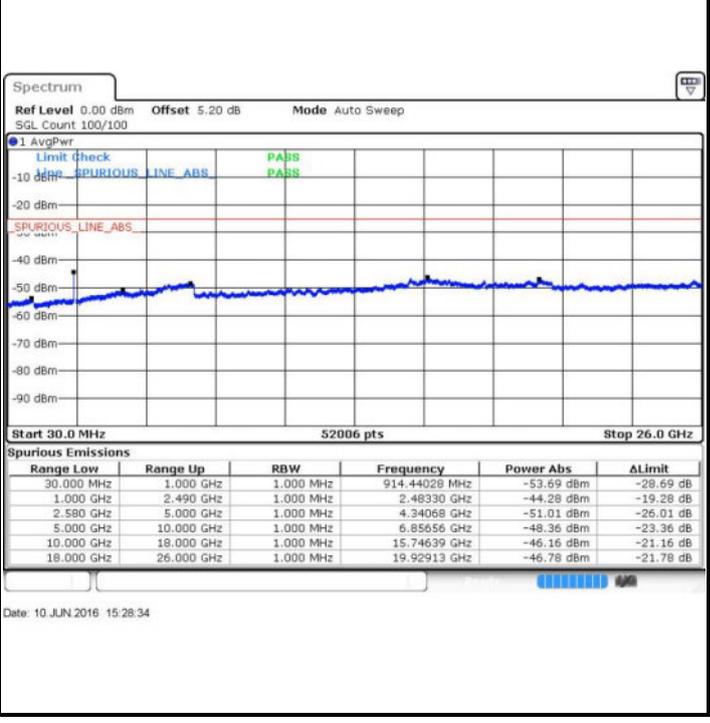


LTE Band 7 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

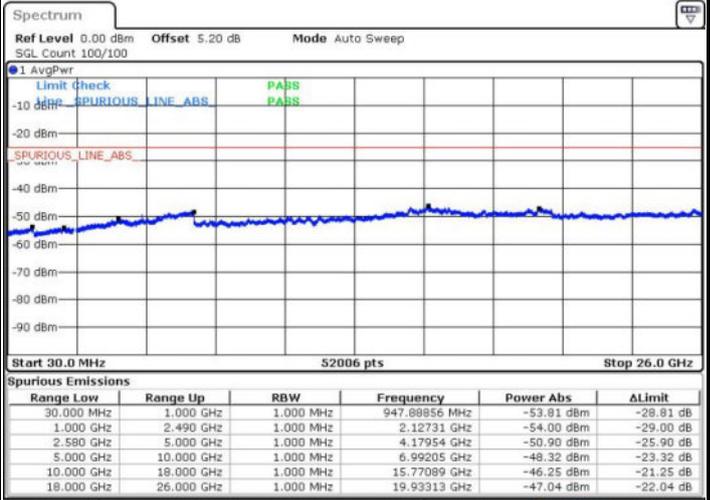
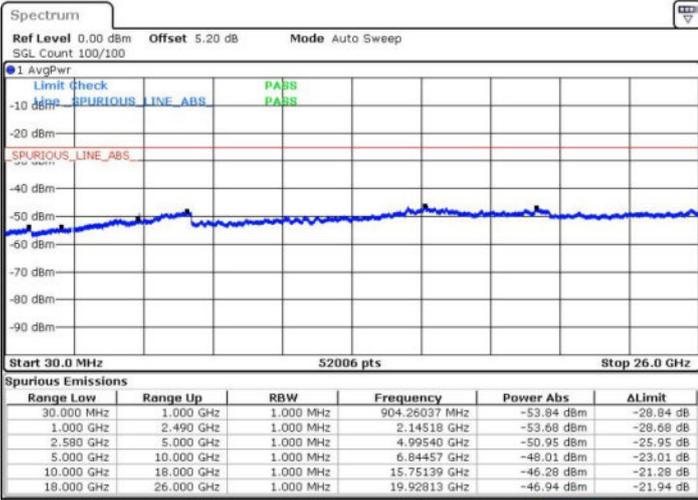




LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

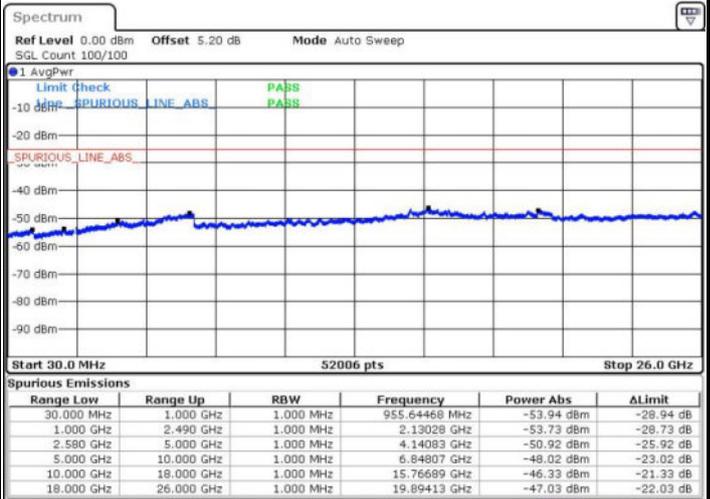
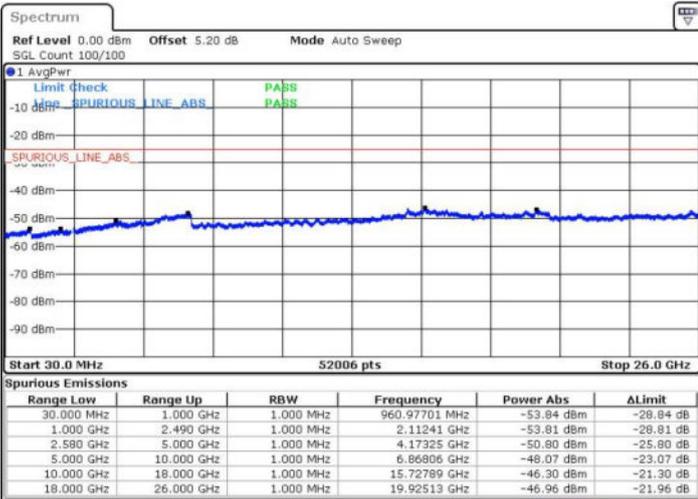


Date: 10 JUN 2016 15:30:26

Date: 10 JUN 2016 15:29:30

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10 JUN 2016 15:31:21

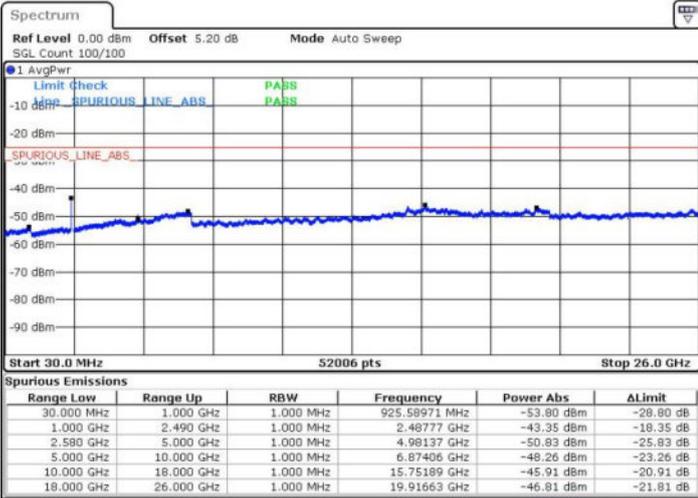
Date: 10 JUN 2016 15:32:16



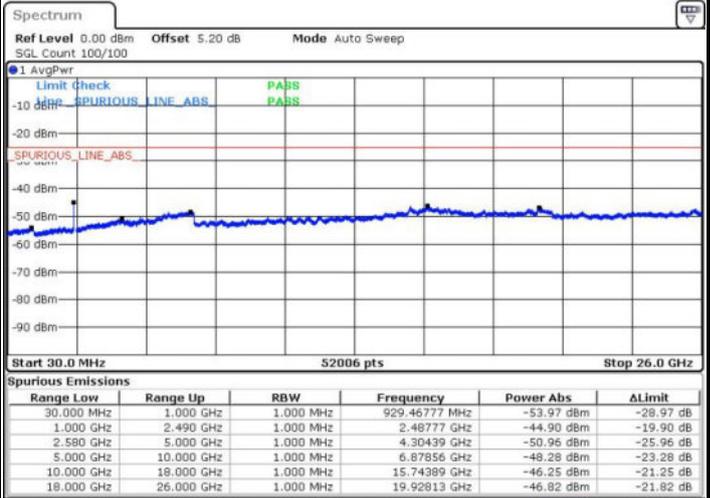
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



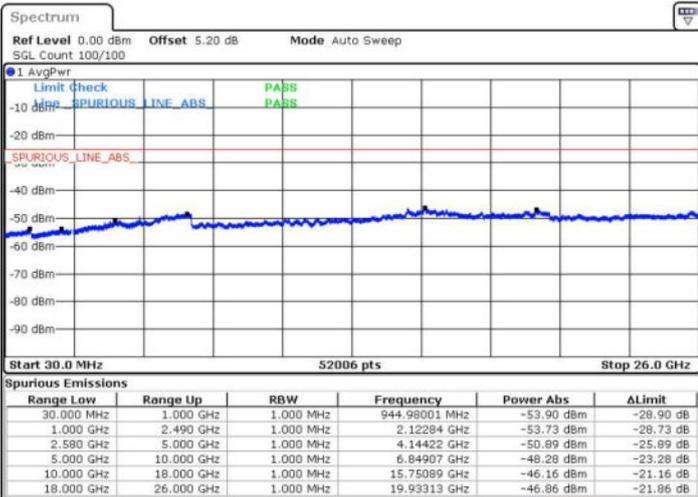
Date: 10 JUN 2016 15:44:38



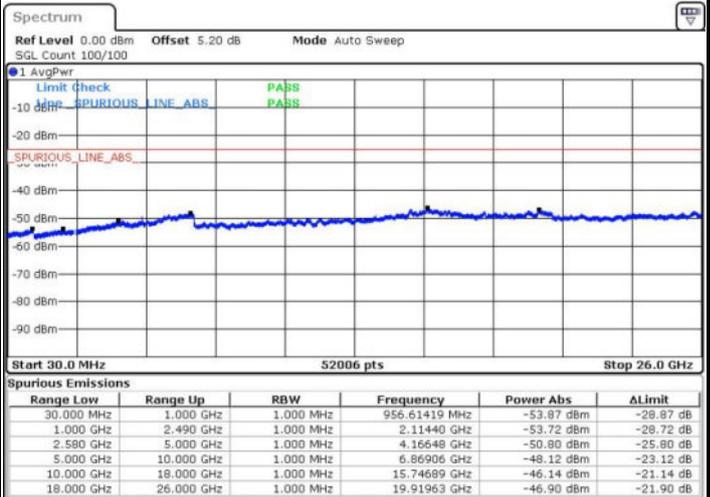
Date: 10 JUN 2016 15:45:33

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 10 JUN 2016 15:47:24

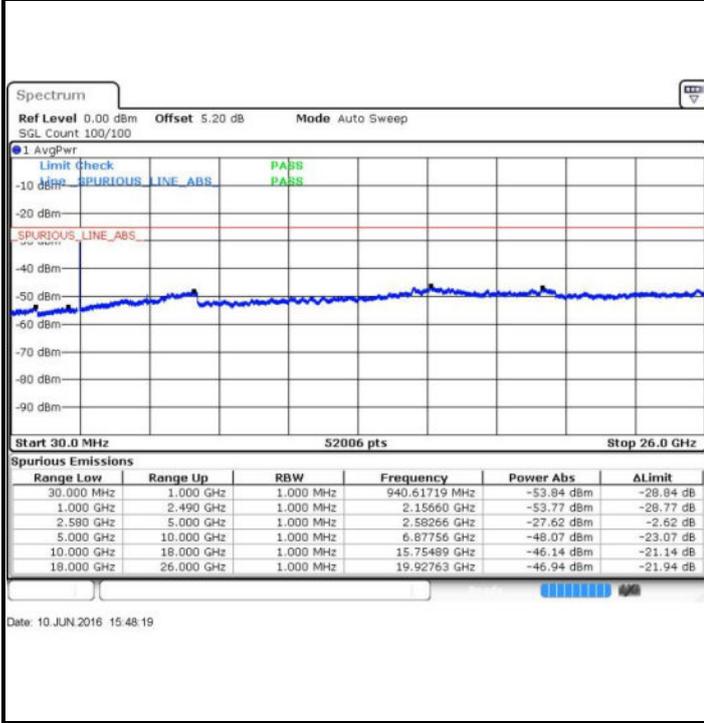


Date: 10 JUN 2016 15:46:28

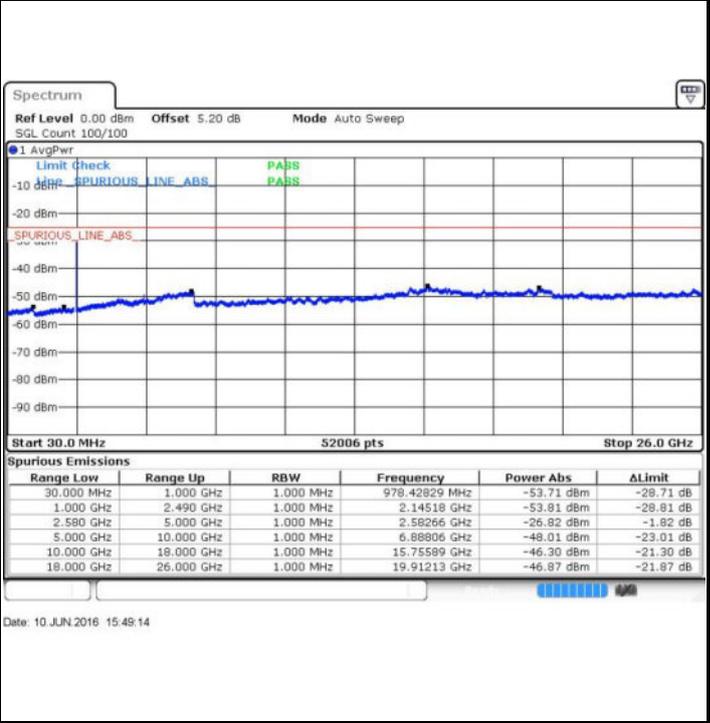


LTE Band7 / 15MHz

Highest Channel / QPSK

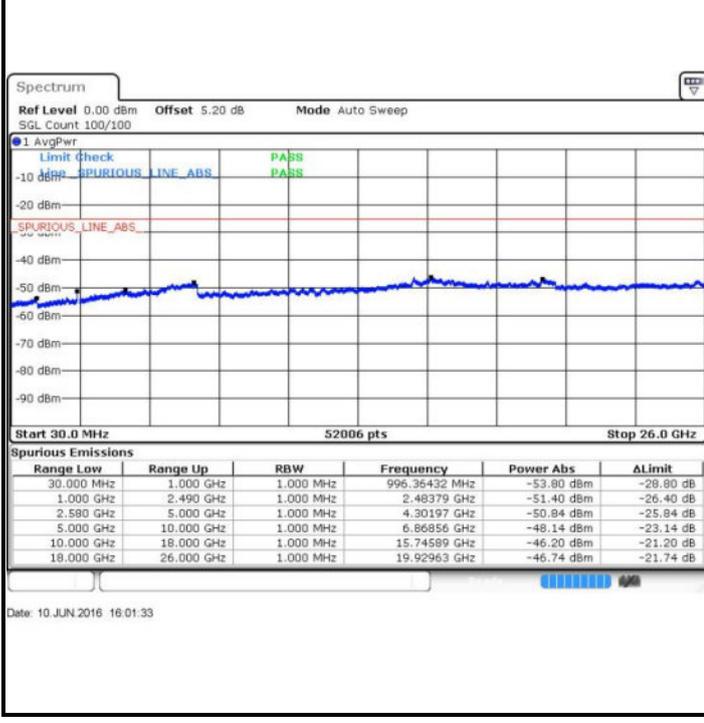


Highest Channel / 16QAM

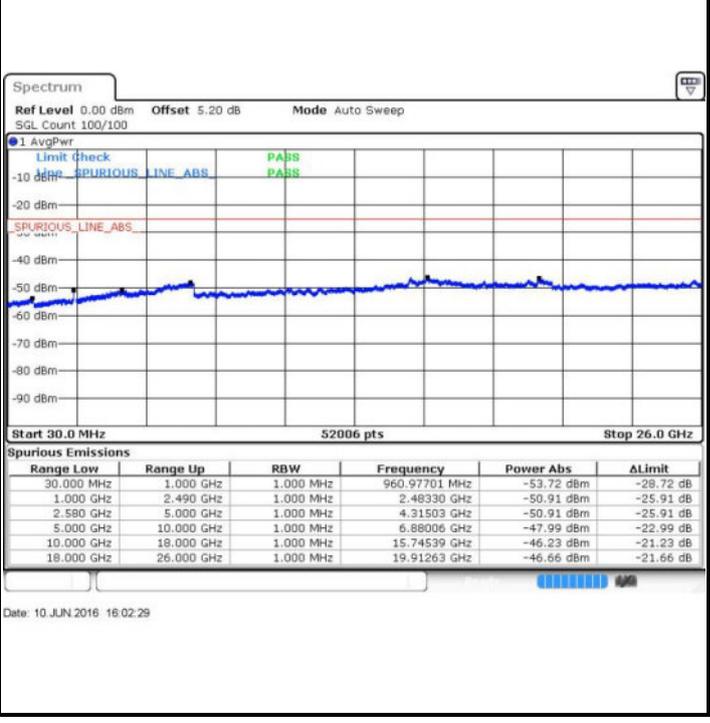


LTE Band 7 / 20MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

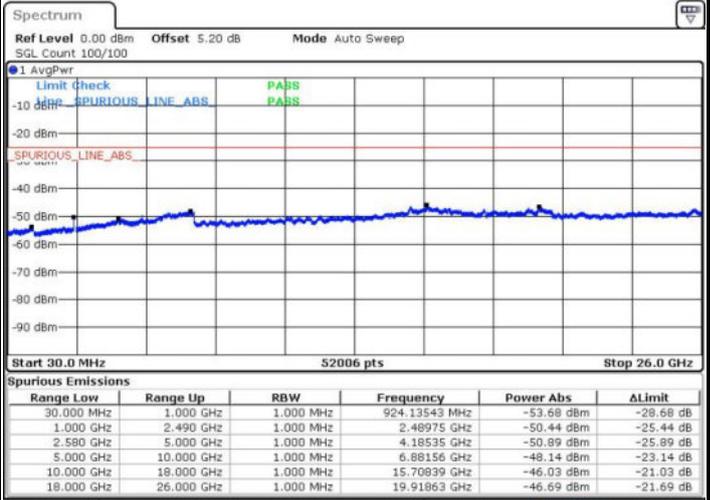
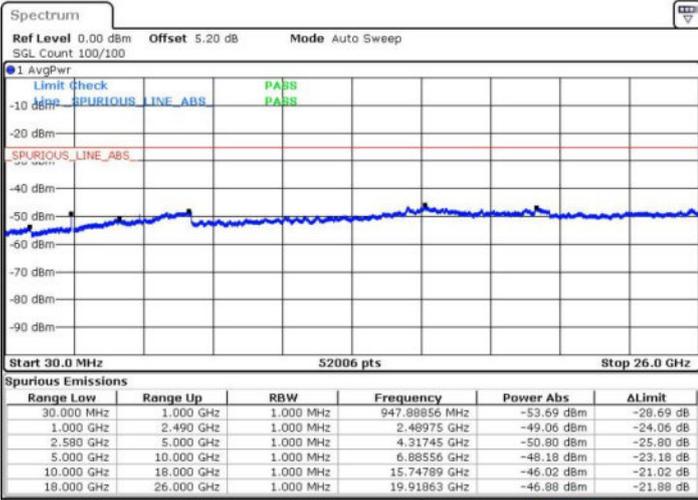




LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

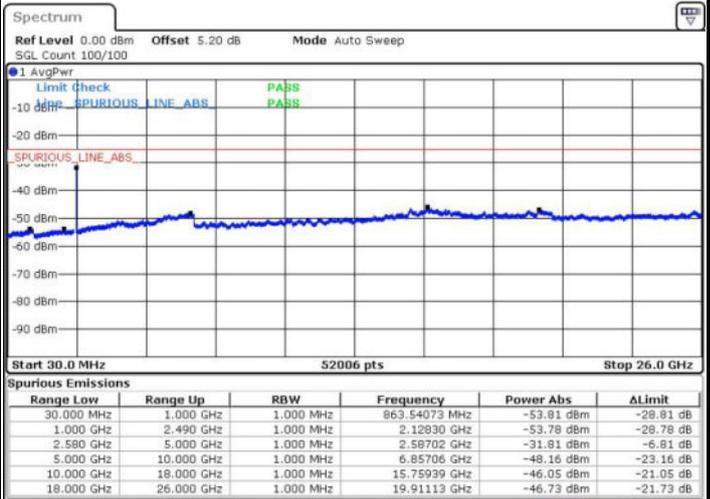
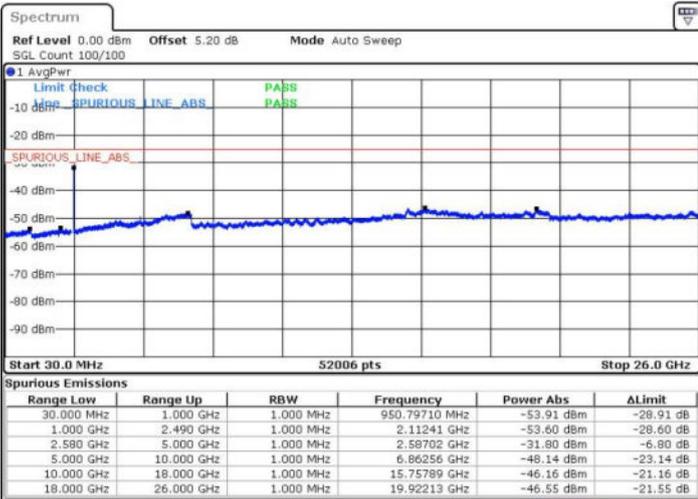


Date: 10 JUN 2016 16:04:20

Date: 10 JUN 2016 16:03:24

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10 JUN 2016 16:05:15

Date: 10 JUN 2016 16:06:10



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	0.0026	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0019	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.7V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 12

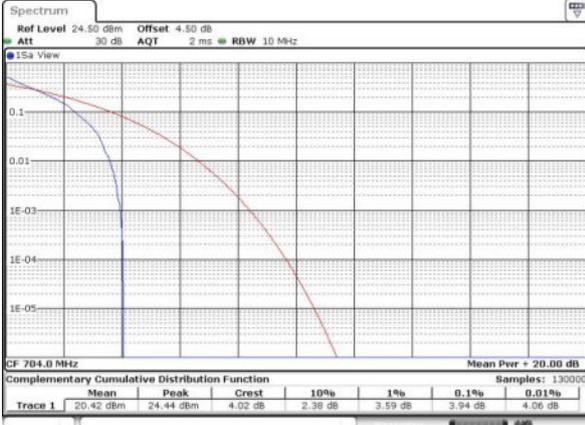
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.94	5.28	5.04	6.12	PASS
Middle CH	3.74	5.04	4.55	5.97	
Highest CH	4.35	4.87	5.39	5.80	



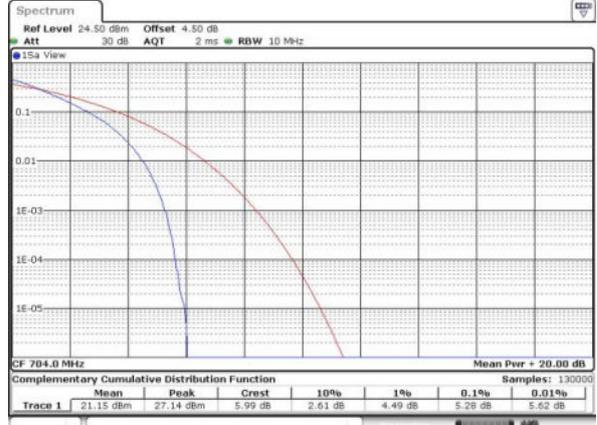
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



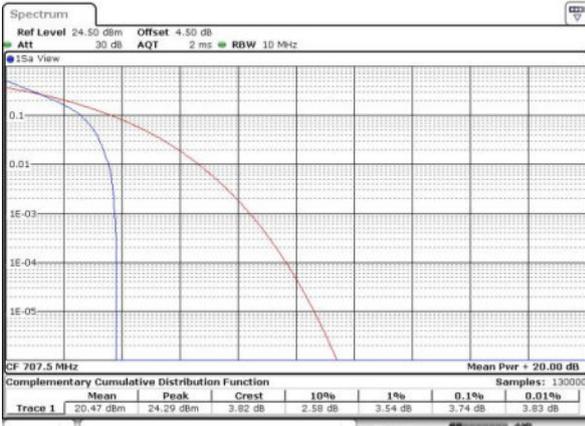
Date: 7 JUN 2016 14:33:29

Lowest Channel / Full RB



Date: 7 JUN 2016 14:34:08

Middle Channel / 1RB



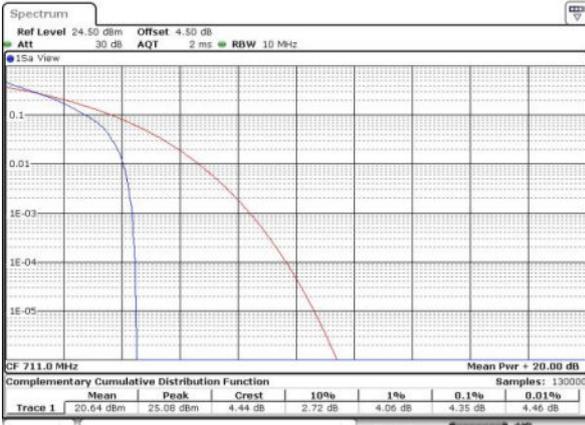
Date: 7 JUN 2016 14:34:56

Middle Channel / Full RB



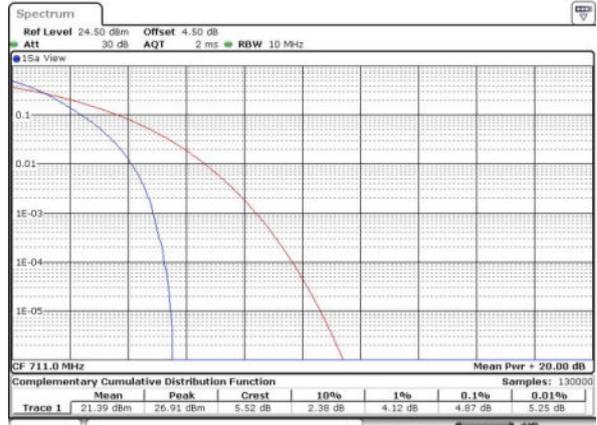
Date: 7 JUN 2016 14:34:21

Highest Channel / 1RB



Date: 7 JUN 2016 14:35:13

Highest Channel / Full RB

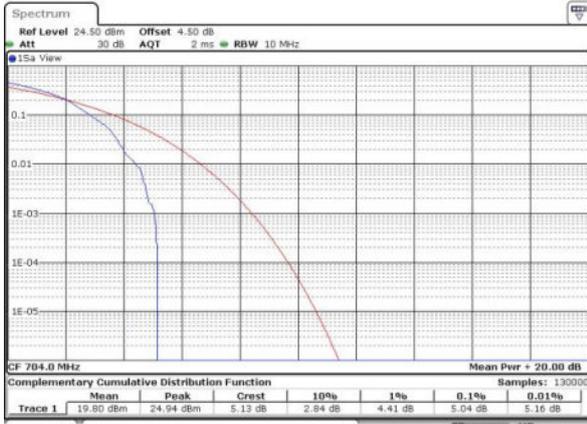


Date: 7 JUN 2016 14:35:48



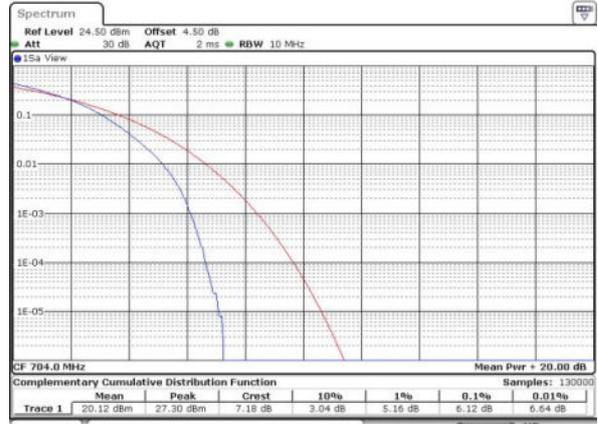
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



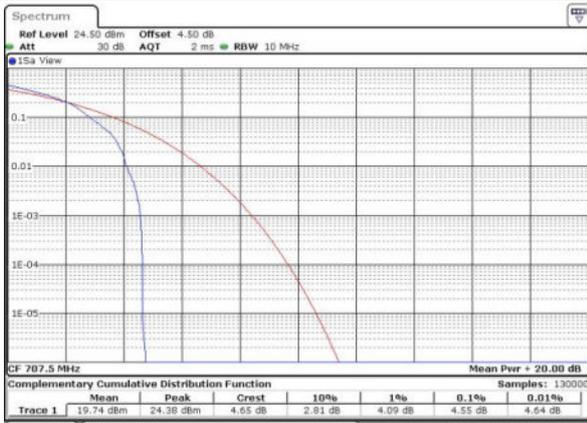
Date: 7 JUN 2016 14:33:41

Lowest Channel / Full RB



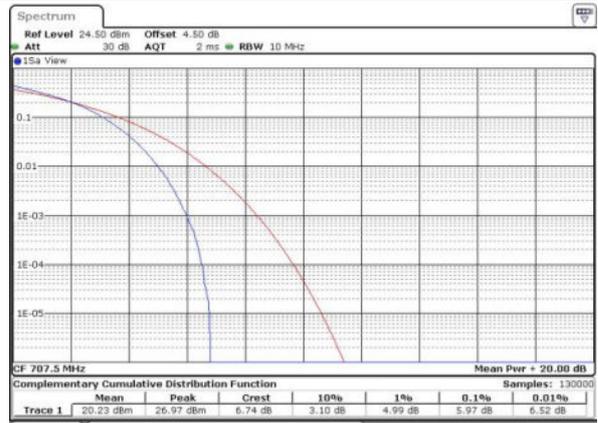
Date: 7 JUN 2016 14:33:57

Middle Channel / 1RB



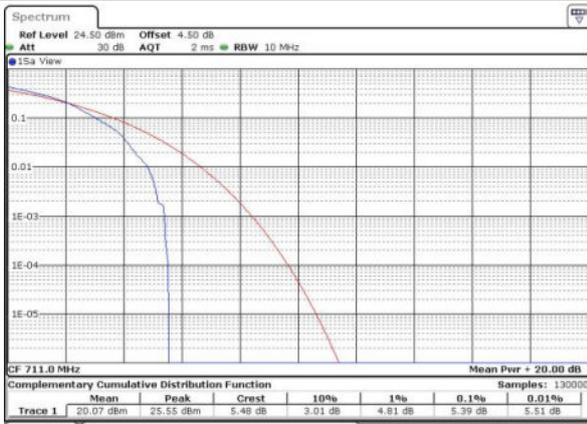
Date: 7 JUN 2016 14:34:44

Middle Channel / Full RB



Date: 7 JUN 2016 14:34:33

Highest Channel / 1RB



Date: 7 JUN 2016 14:35:24

Highest Channel / Full RB



Date: 7 JUN 2016 14:35:35



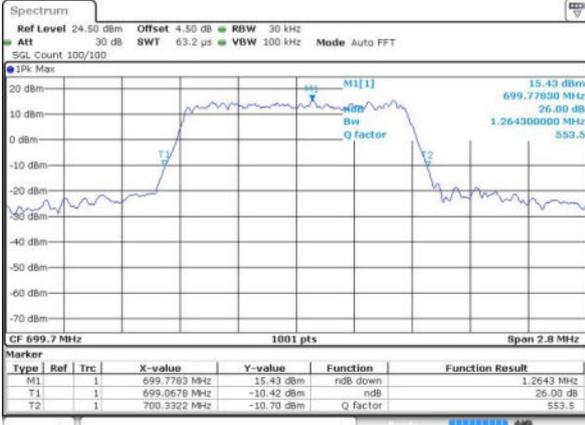
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.264	1.259	2.967	2.967	5.025	4.945	9.750	9.890	-	-	-	-
Middle CH	1.253	1.253	2.991	2.973	4.975	4.915	9.750	9.850	-	-	-	-
Highest CH	1.245	1.256	2.973	3.009	4.965	4.985	9.670	9.670	-	-	-	-



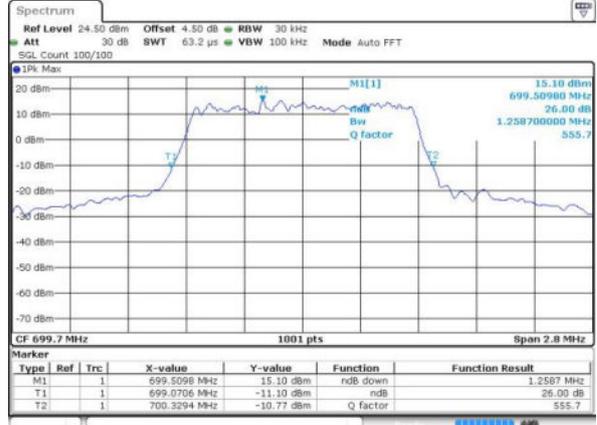
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



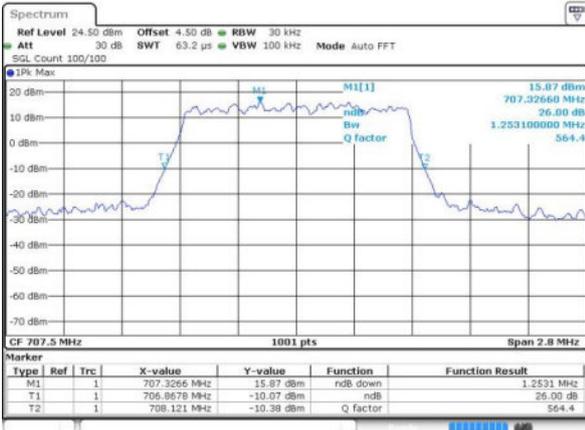
Date: 7 JUN 2016 11:02:51

Lowest Channel / 1.4MHz / 16QAM



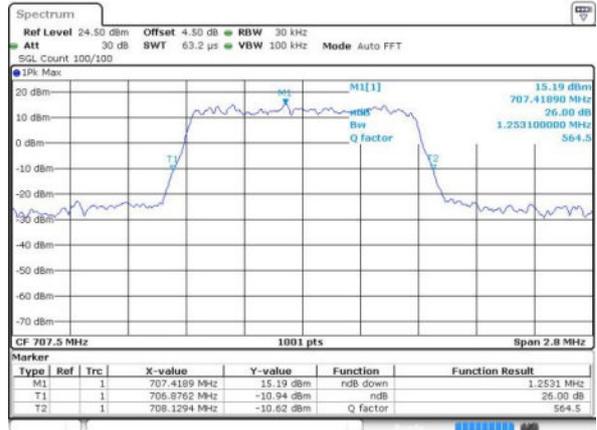
Date: 7 JUN 2016 11:03:12

Middle Channel / 1.4MHz / QPSK



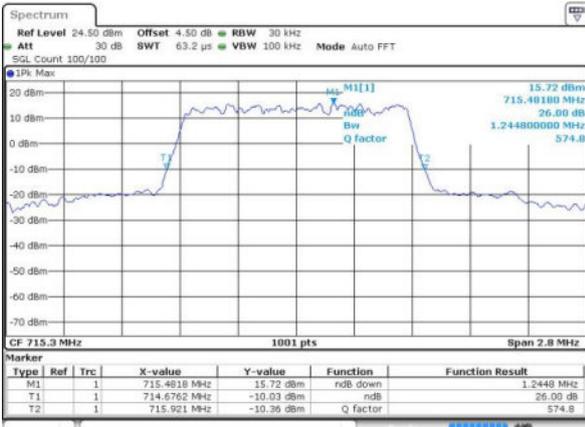
Date: 7 JUN 2016 11:03:53

Middle Channel / 1.4MHz / 16QAM



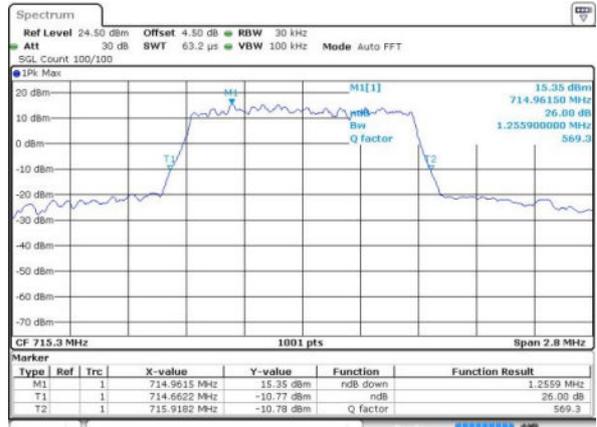
Date: 7 JUN 2016 11:03:32

Highest Channel / 1.4MHz / QPSK



Date: 7 JUN 2016 11:04:15

Highest Channel / 1.4MHz / 16QAM

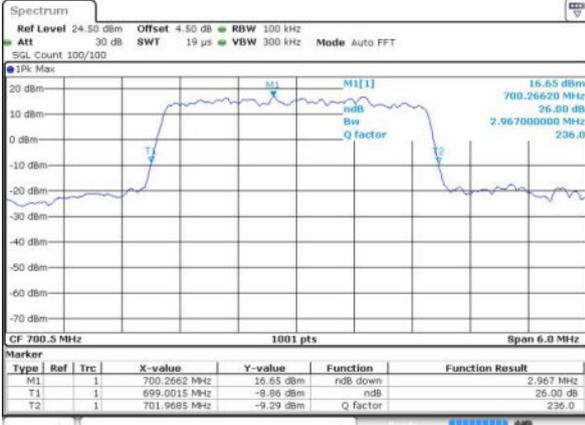


Date: 7 JUN 2016 11:04:35



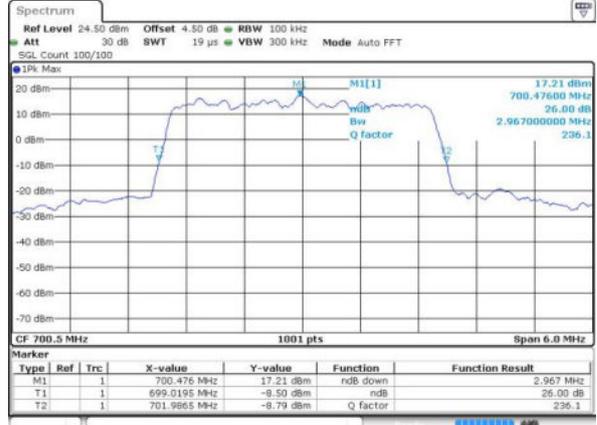
LTE Band 12

Lowest Channel / 3MHz / QPSK



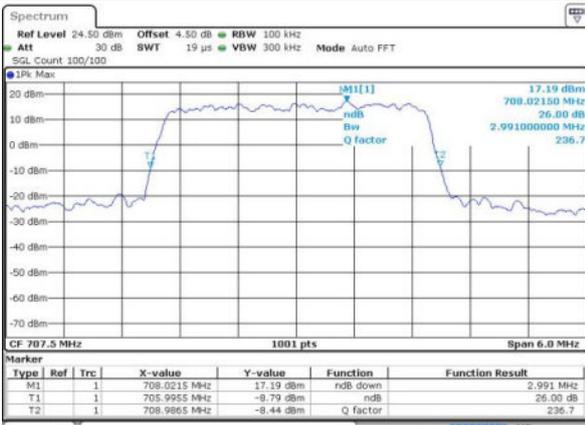
Date: 7 JUN 2016 11:33:15

Lowest Channel / 3MHz / 16QAM



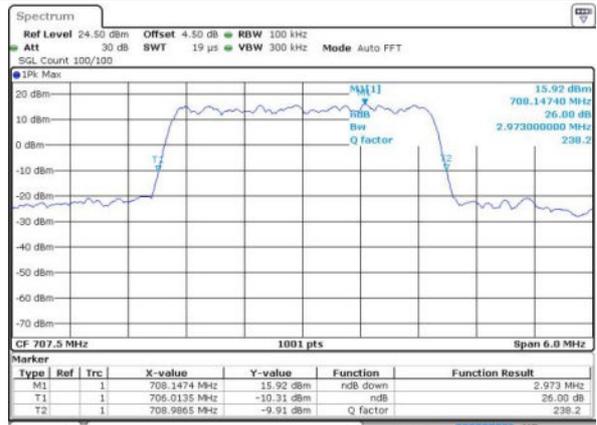
Date: 7 JUN 2016 11:33:50

Middle Channel / 3MHz / QPSK



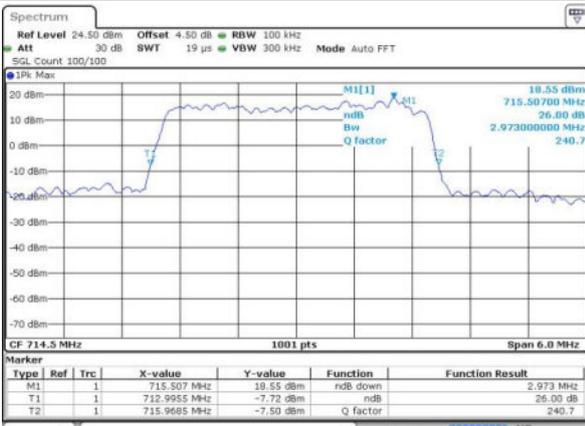
Date: 7 JUN 2016 11:34:42

Middle Channel / 3MHz / 16QAM



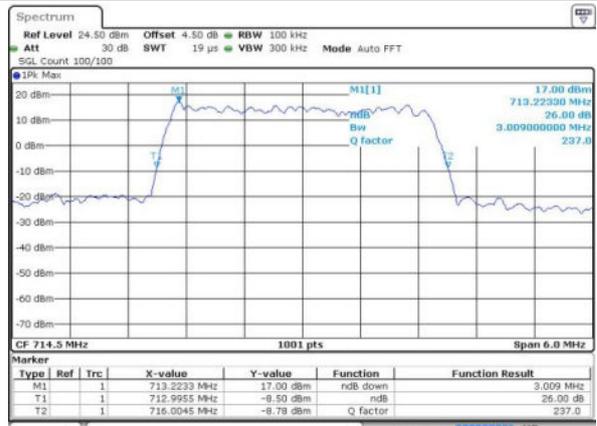
Date: 7 JUN 2016 11:34:20

Highest Channel / 3MHz / QPSK



Date: 7 JUN 2016 11:35:03

Highest Channel / 3MHz / 16QAM

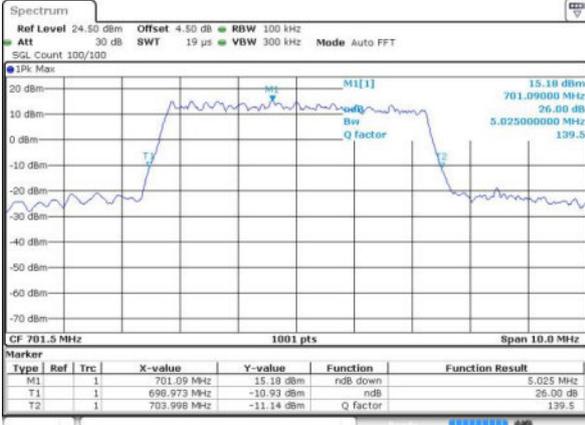


Date: 7 JUN 2016 11:35:33



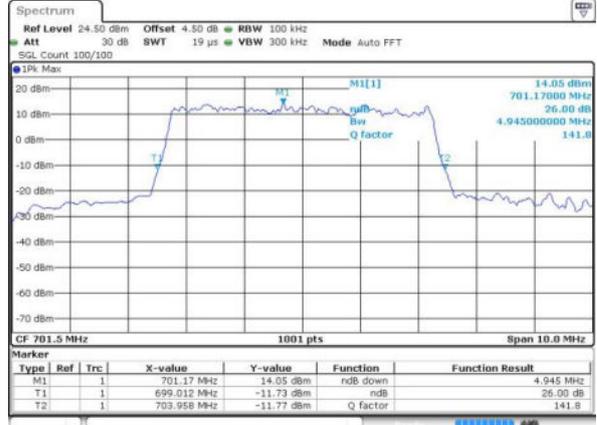
LTE Band 12

Lowest Channel / 5MHz / QPSK



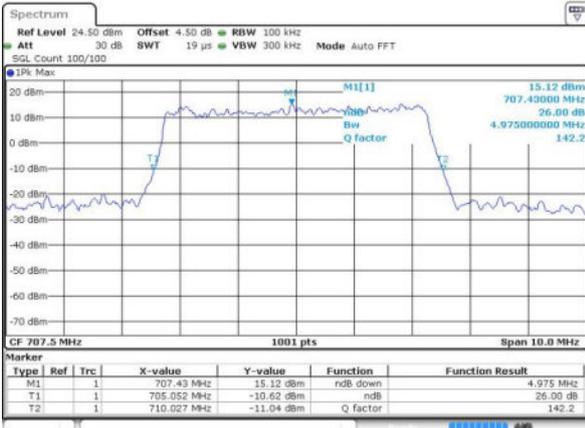
Date: 7 JUN 2016 11:46:10

Lowest Channel / 5MHz / 16QAM



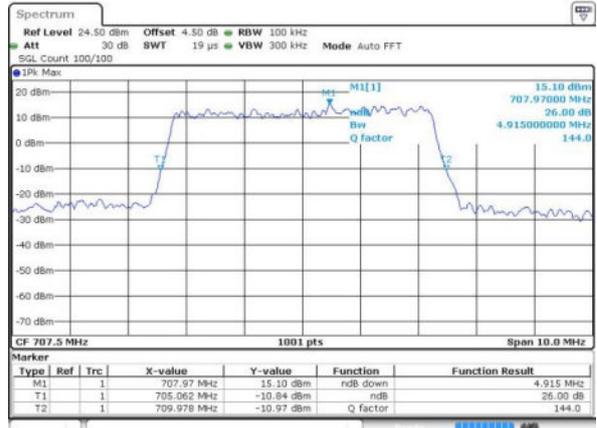
Date: 7 JUN 2016 11:46:31

Middle Channel / 5MHz / QPSK



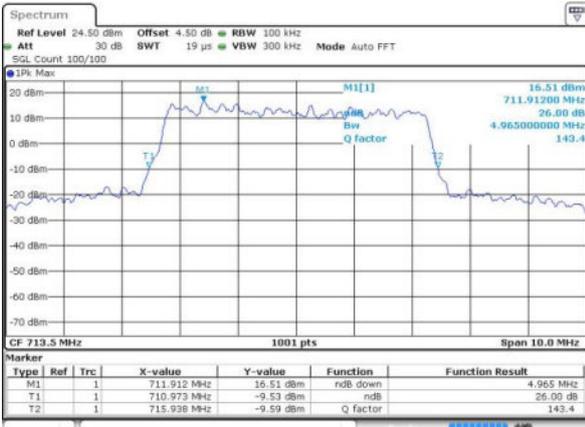
Date: 7 JUN 2016 11:47:11

Middle Channel / 5MHz / 16QAM



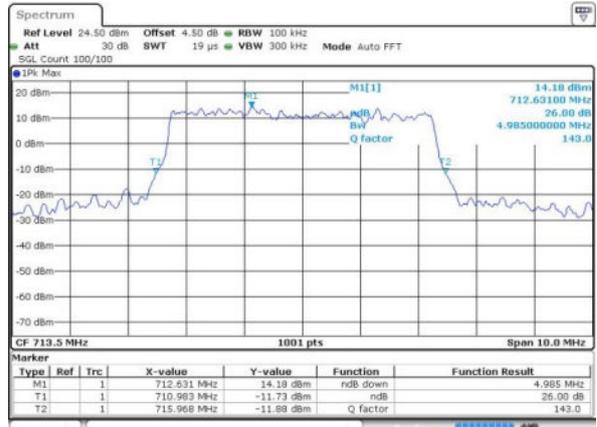
Date: 7 JUN 2016 11:47:43

Highest Channel / 5MHz / QPSK



Date: 7 JUN 2016 11:48:29

Highest Channel / 5MHz / 16QAM

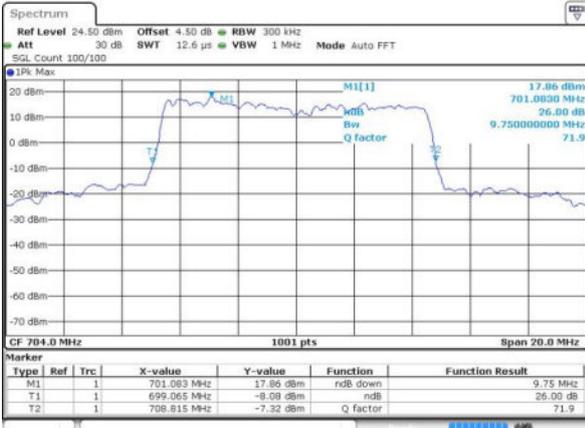


Date: 7 JUN 2016 11:48:07



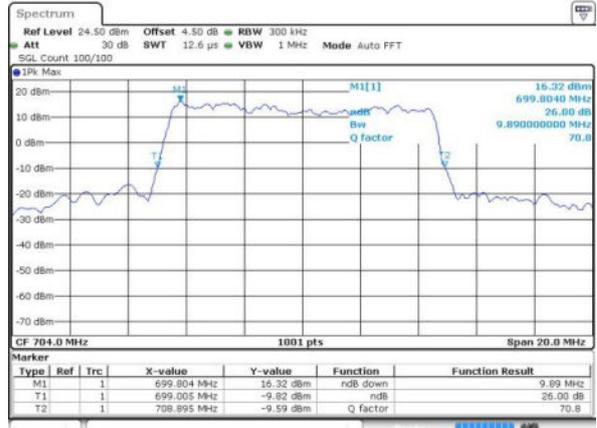
LTE Band 12

Lowest Channel / 10MHz / QPSK



Date: 7 JUN 2016 14:19:45

Lowest Channel / 10MHz / 16QAM



Date: 7 JUN 2016 14:19:22

Middle Channel / 10MHz / QPSK



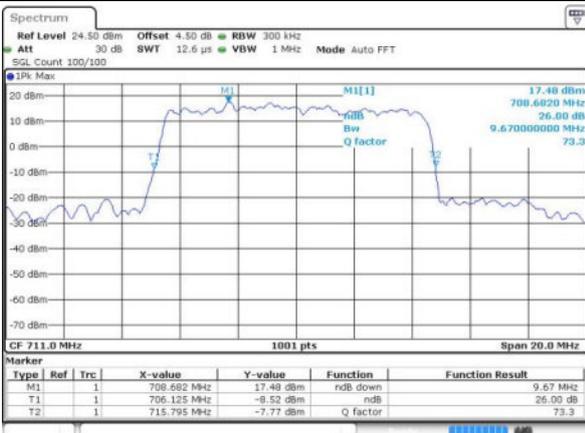
Date: 7 JUN 2016 14:21:16

Middle Channel / 10MHz / 16QAM



Date: 7 JUN 2016 14:21:48

Highest Channel / 10MHz / QPSK



Date: 7 JUN 2016 14:23:00

Highest Channel / 10MHz / 16QAM



Date: 7 JUN 2016 14:23:30



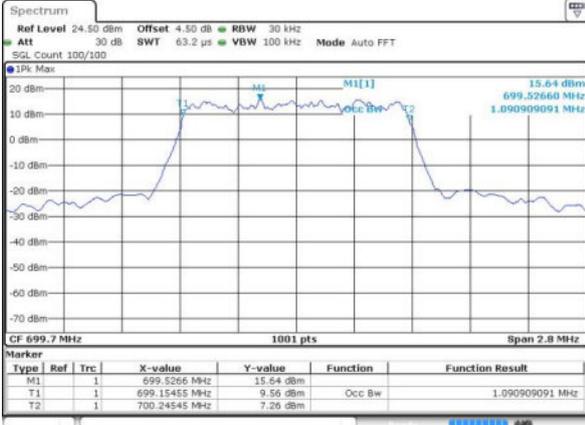
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.09	1.09	2.73	2.70	4.48	4.50	9.05	9.07	-	-	-	-
Middle CH	1.09	1.09	2.72	2.72	4.52	4.52	9.05	9.03	-	-	-	-
Highest CH	1.10	1.09	2.71	2.71	4.50	4.52	9.03	8.99	-	-	-	-



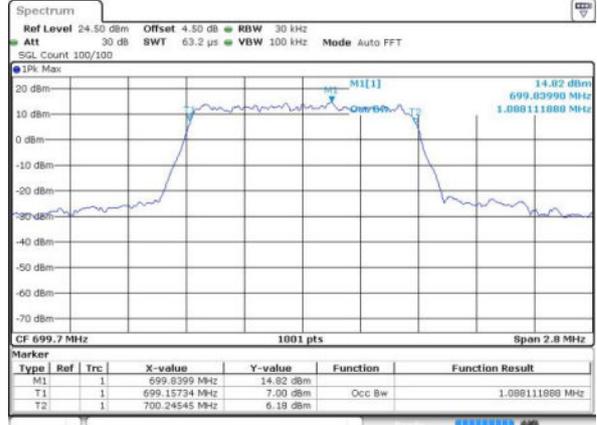
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



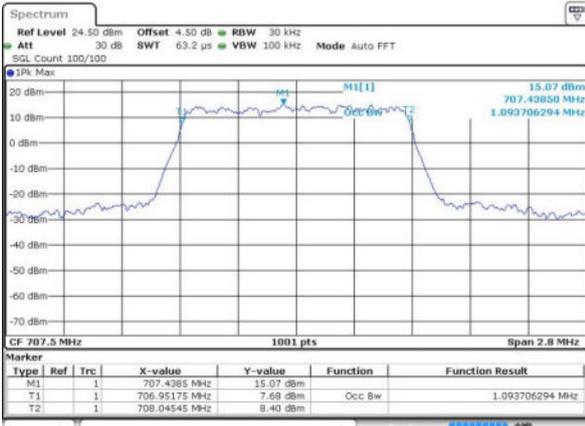
Date: 7 JUN 2016 11:02:40

Lowest Channel / 1.4MHz / 16QAM



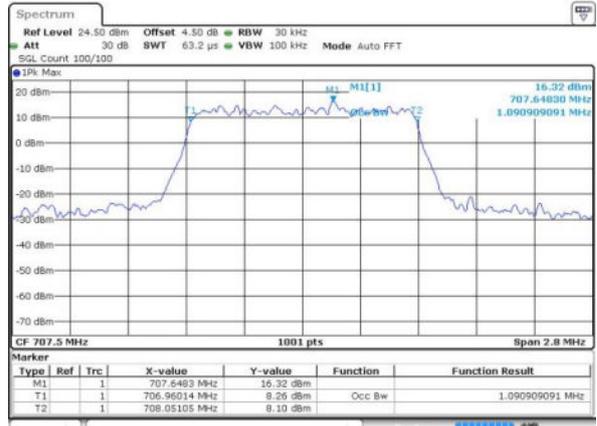
Date: 7 JUN 2016 11:03:01

Middle Channel / 1.4MHz / QPSK



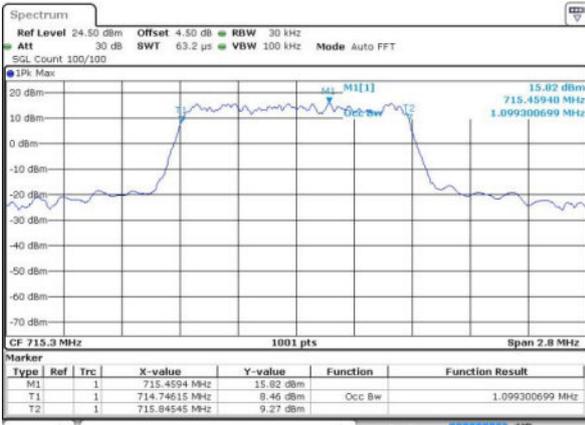
Date: 7 JUN 2016 11:03:43

Middle Channel / 1.4MHz / 16QAM



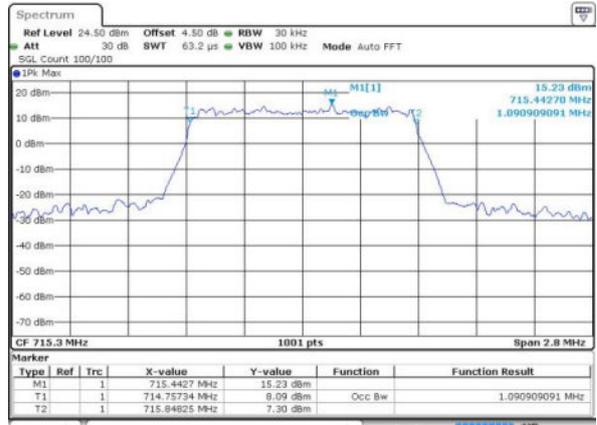
Date: 7 JUN 2016 11:03:22

Highest Channel / 1.4MHz / QPSK



Date: 7 JUN 2016 11:04:04

Highest Channel / 1.4MHz / 16QAM

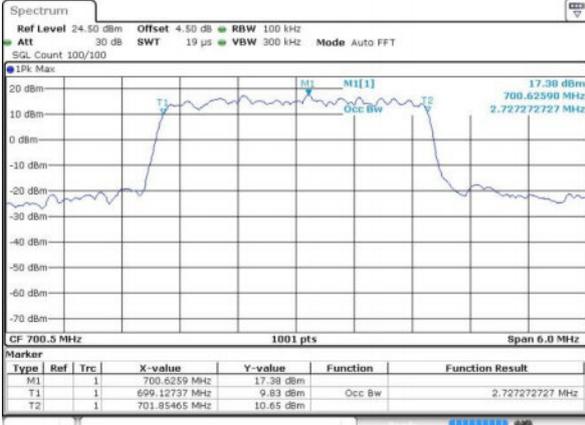


Date: 7 JUN 2016 11:04:25



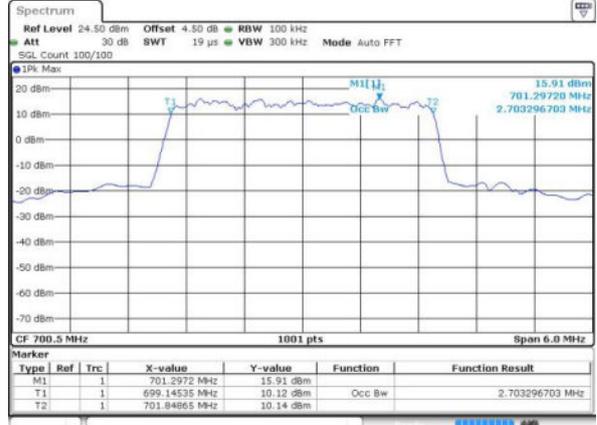
LTE Band 12

Lowest Channel / 3MHz / QPSK



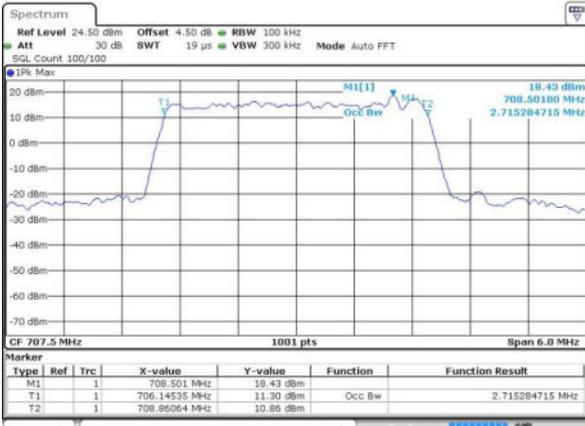
Date: 7 JUN 2016 11:33:05

Lowest Channel / 3MHz / 16QAM



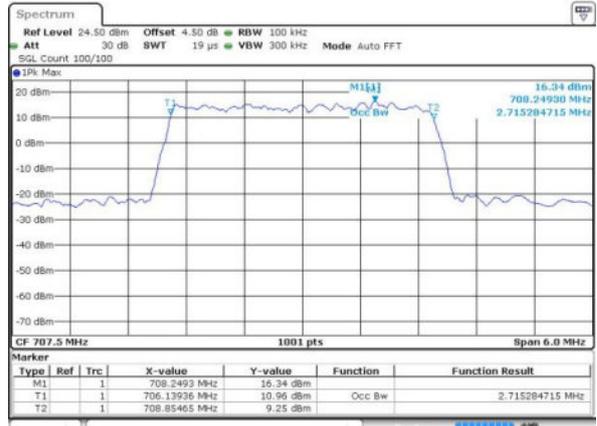
Date: 7 JUN 2016 11:33:41

Middle Channel / 3MHz / QPSK



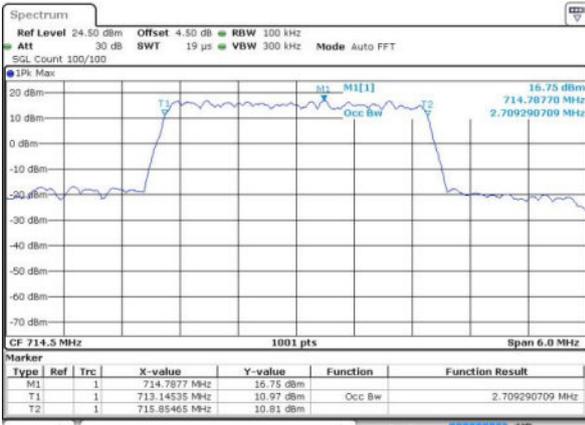
Date: 7 JUN 2016 11:34:33

Middle Channel / 3MHz / 16QAM



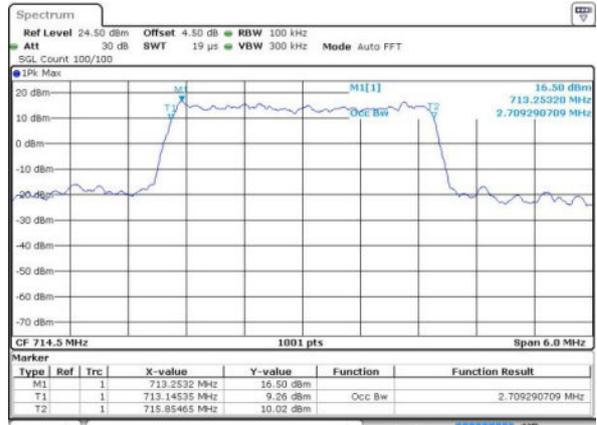
Date: 7 JUN 2016 11:34:10

Highest Channel / 3MHz / QPSK



Date: 7 JUN 2016 11:35:12

Highest Channel / 3MHz / 16QAM

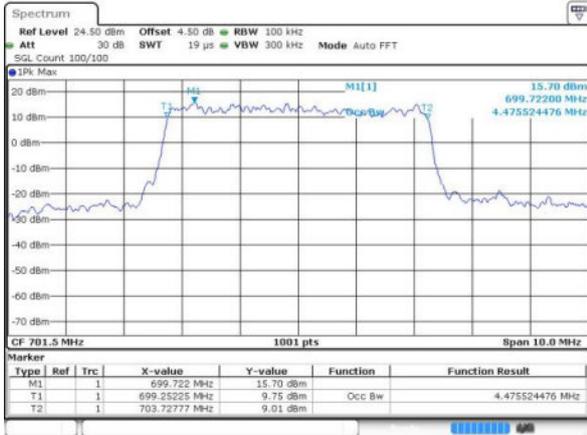


Date: 7 JUN 2016 11:35:24



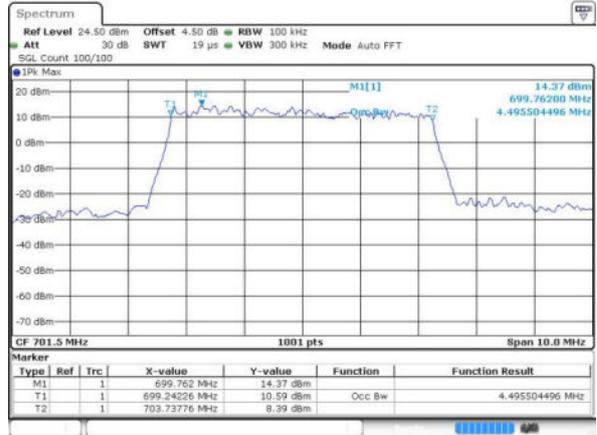
LTE Band 12

Lowest Channel / 5MHz / QPSK



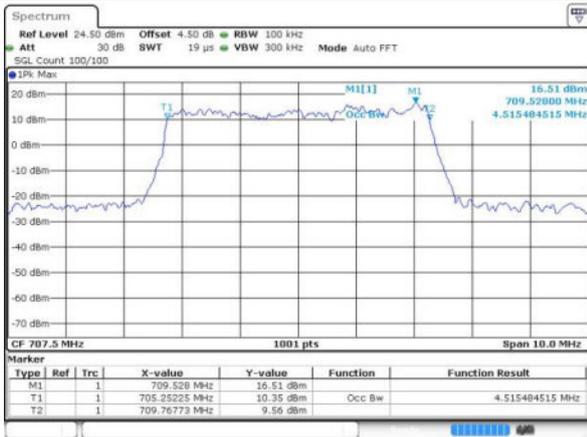
Date: 7 JUN 2016 11:45:50

Lowest Channel / 5MHz / 16QAM



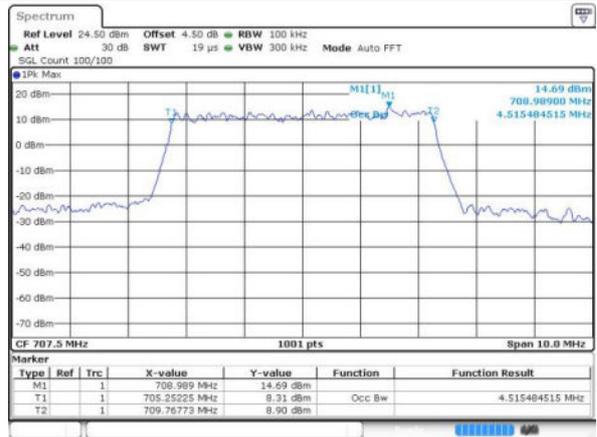
Date: 7 JUN 2016 11:46:21

Middle Channel / 5MHz / QPSK



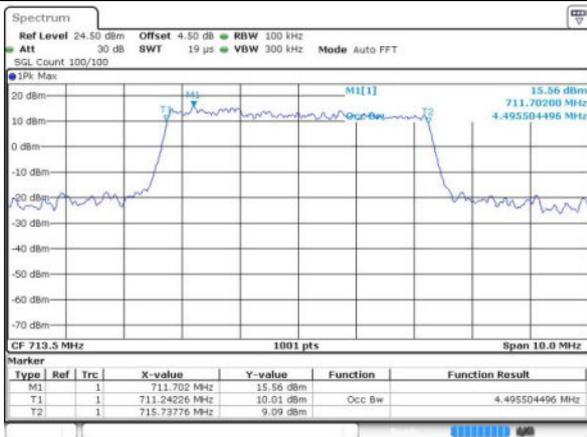
Date: 7 JUN 2016 11:47:01

Middle Channel / 5MHz / 16QAM



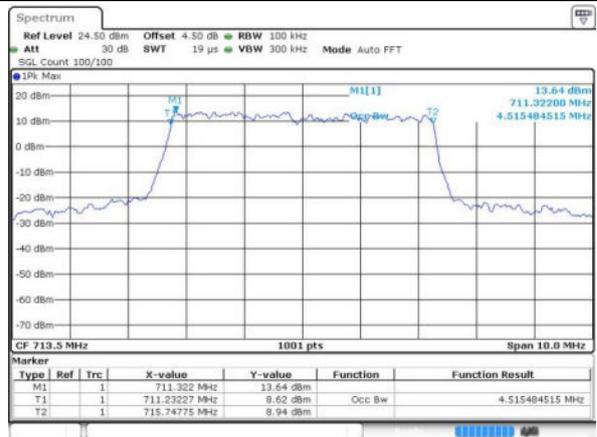
Date: 7 JUN 2016 11:47:33

Highest Channel / 5MHz / QPSK



Date: 7 JUN 2016 11:48:20

Highest Channel / 5MHz / 16QAM

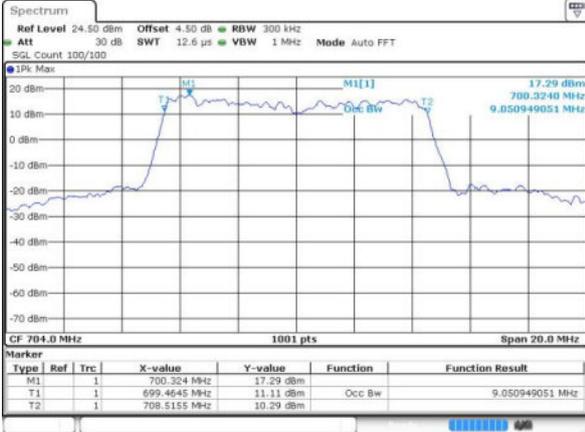


Date: 7 JUN 2016 11:47:57



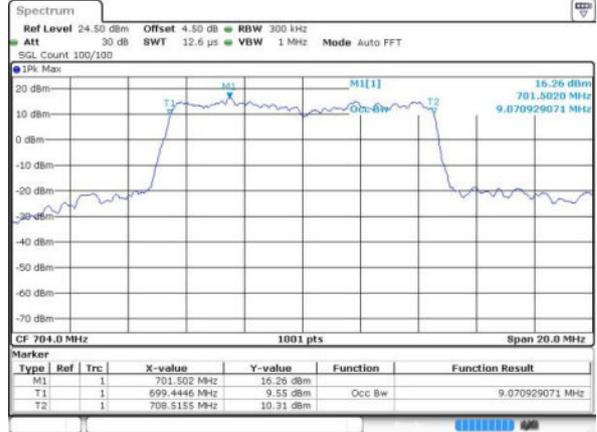
LTE Band 12

Lowest Channel / 10MHz / QPSK



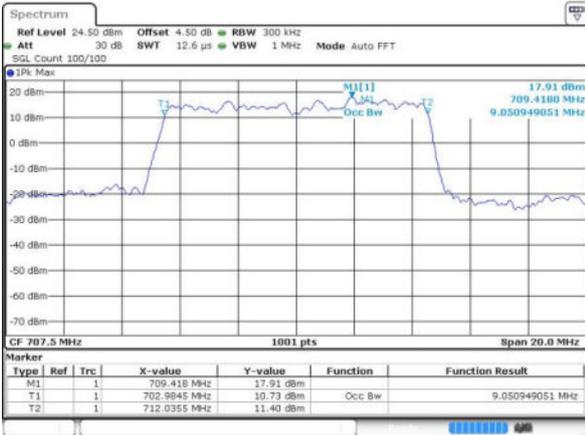
Date: 7 JUN 2016 14:19:34

Lowest Channel / 10MHz / 16QAM



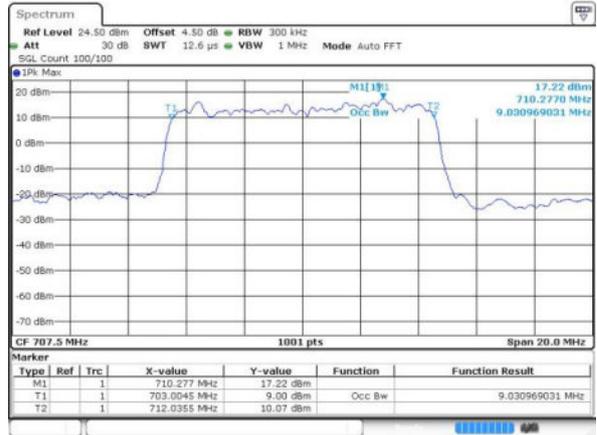
Date: 7 JUN 2016 14:19:13

Middle Channel / 10MHz / QPSK



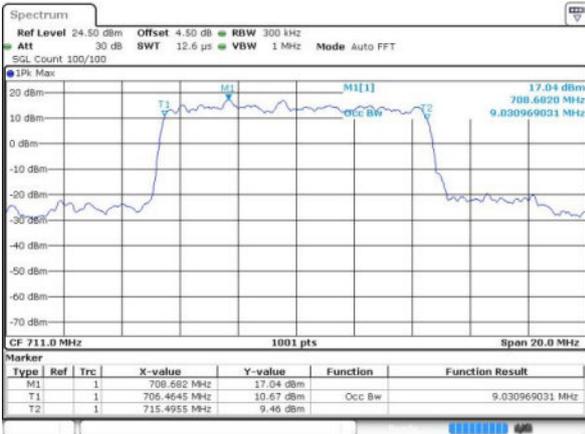
Date: 7 JUN 2016 14:21:05

Middle Channel / 10MHz / 16QAM



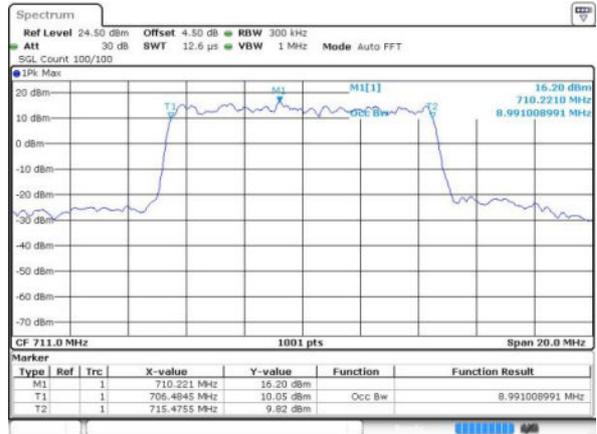
Date: 7 JUN 2016 14:21:58

Highest Channel / 10MHz / QPSK



Date: 7 JUN 2016 14:22:49

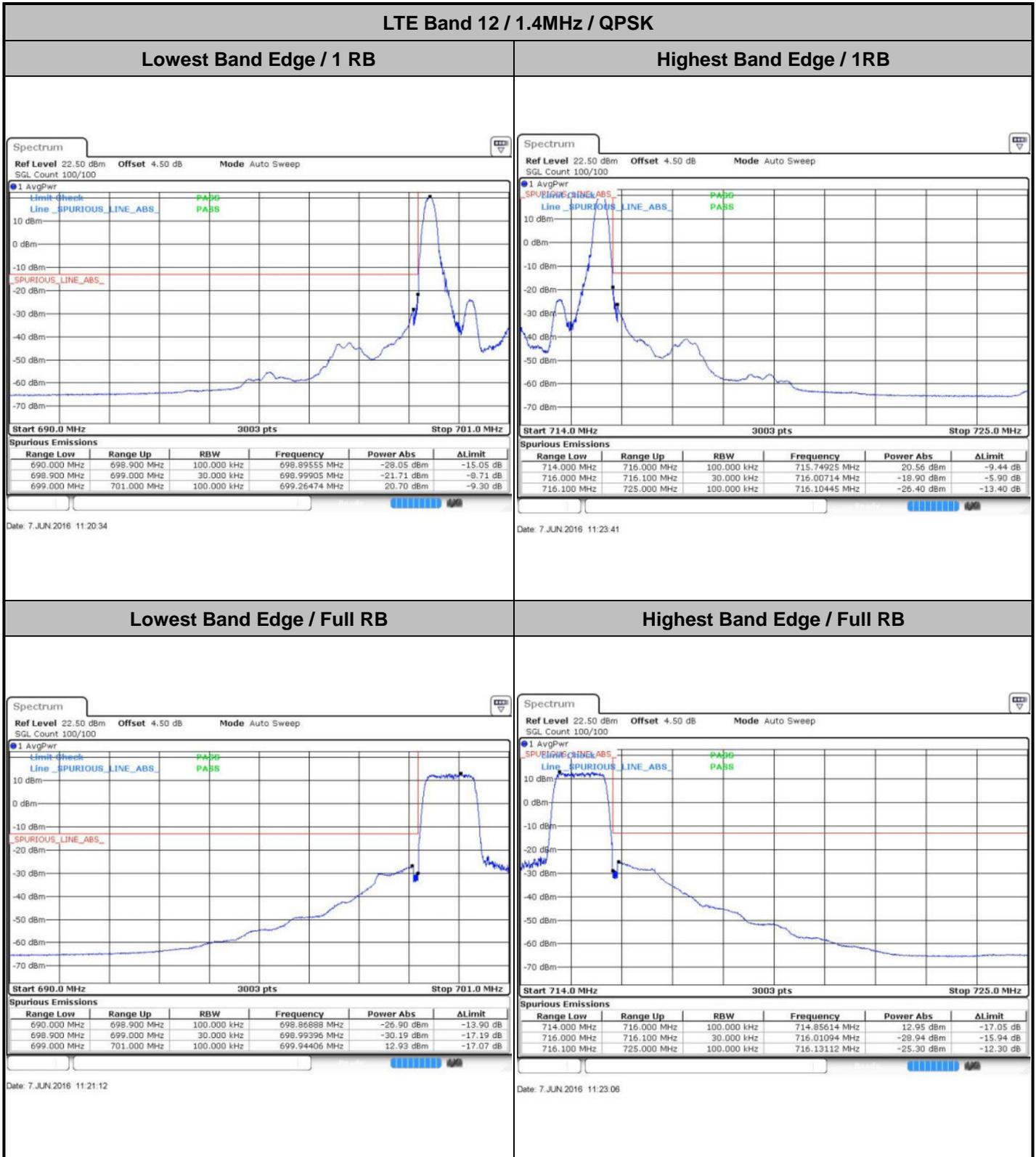
Highest Channel / 10MHz / 16QAM



Date: 7 JUN 2016 14:22:19



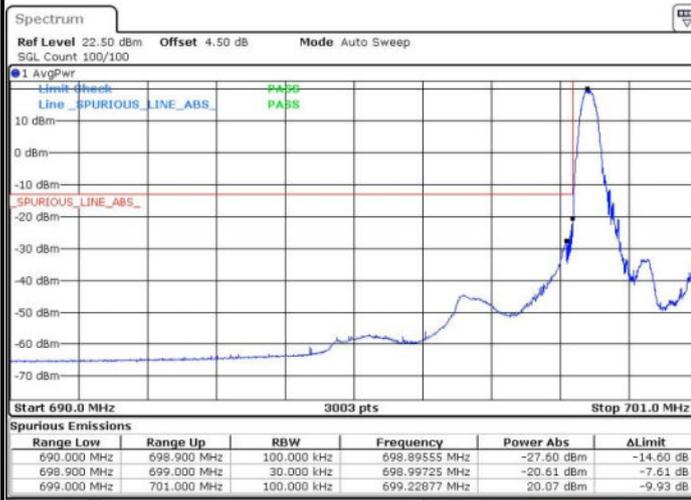
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 7 JUN 2016 11:07:44

Highest Band Edge / 1 RB



Date: 7 JUN 2016 11:24:17

Lowest Band Edge / Full RB



Date: 7 JUN 2016 11:21:47

Highest Band Edge / Full RB



Date: 7 JUN 2016 11:22:30