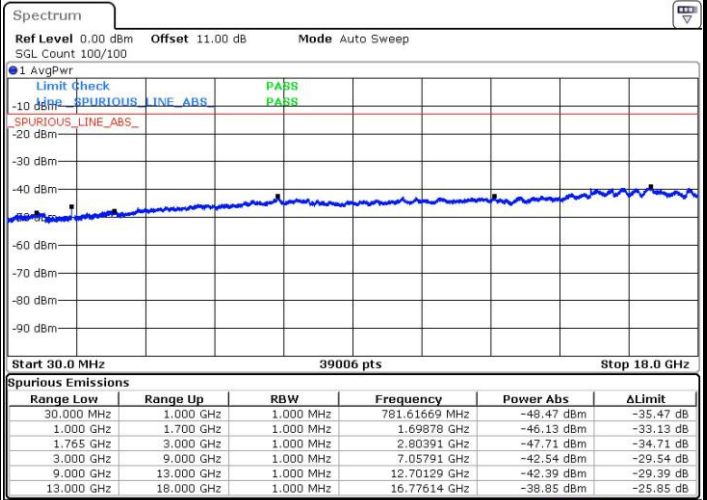
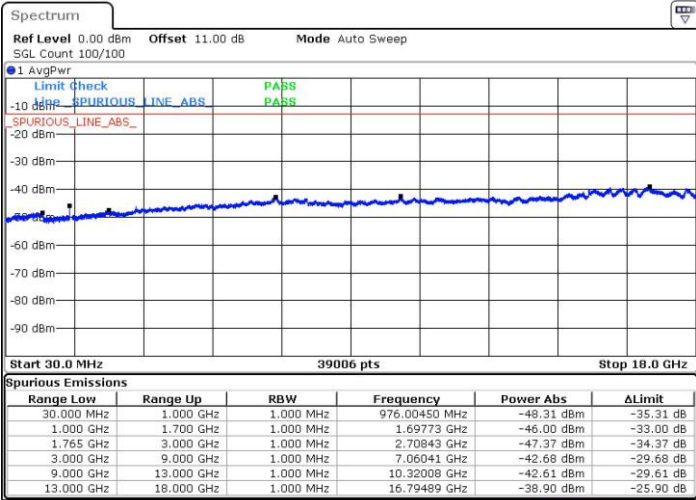




LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

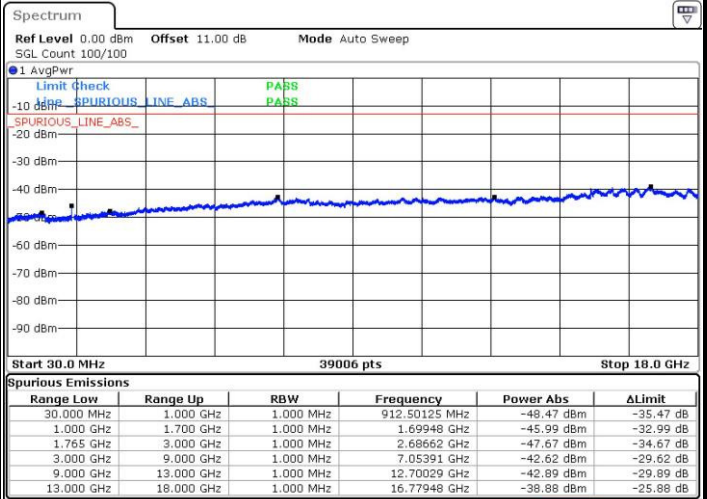
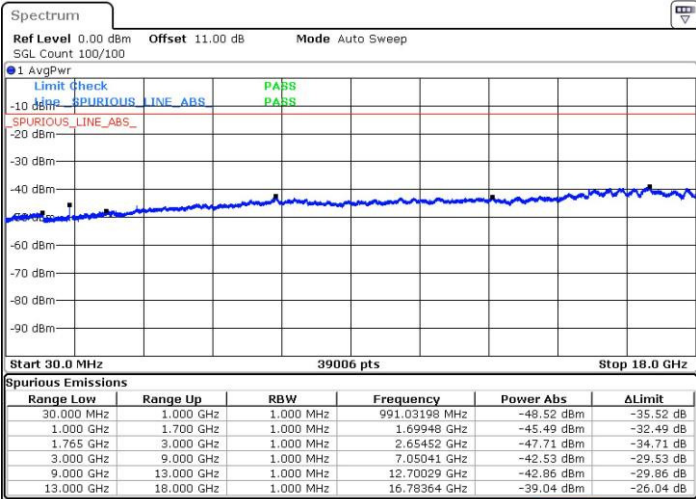


Date: 24.MAR.2016 15:01:33

Date: 24.MAR.2016 15:02:28

Middle Channel / QPSK

Middle Channel / 16QAM



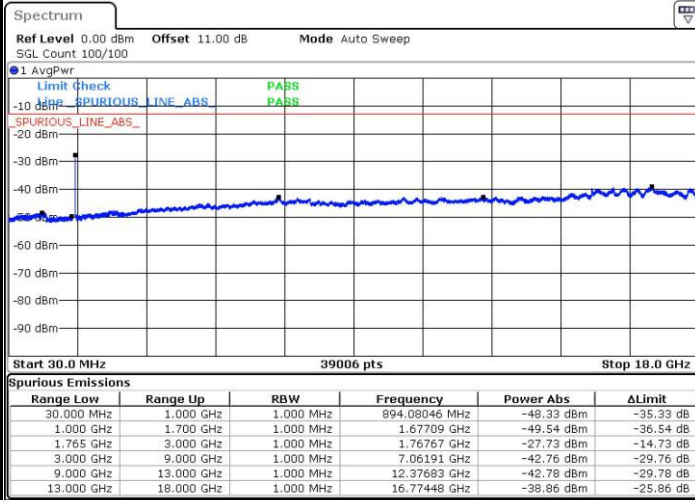
Date: 24.MAR.2016 15:04:36

Date: 24.MAR.2016 15:05:31



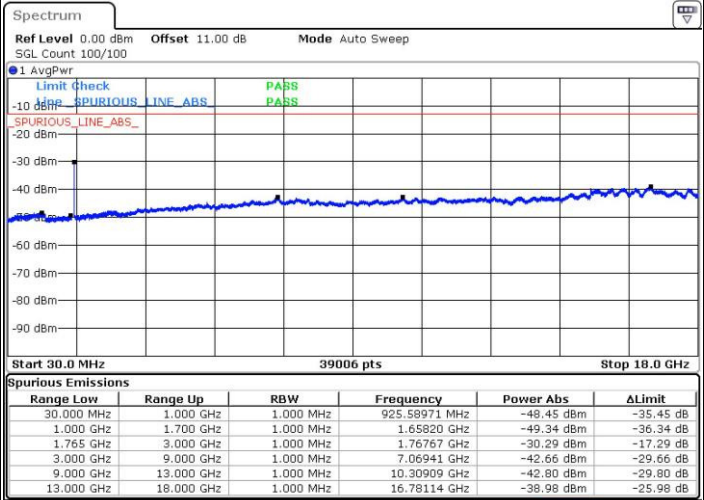
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 24.MAR.2016 15:13:58

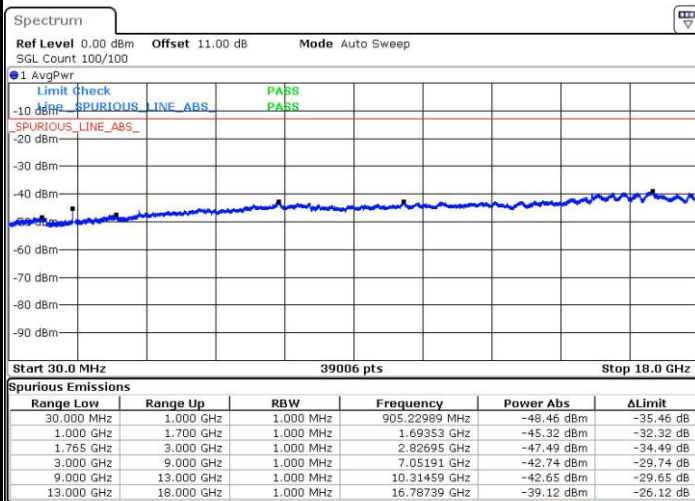
Highest Channel / 16QAM



Date: 24.MAR.2016 15:14:53

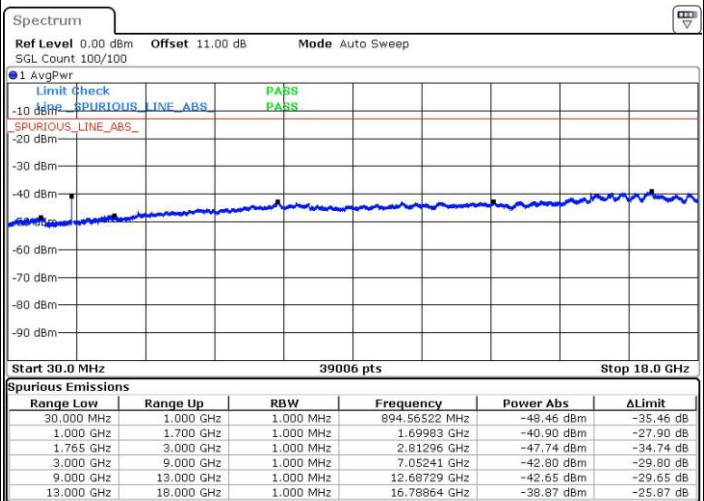
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 24.MAR.2016 15:38:07

Lowest Channel / 16QAM



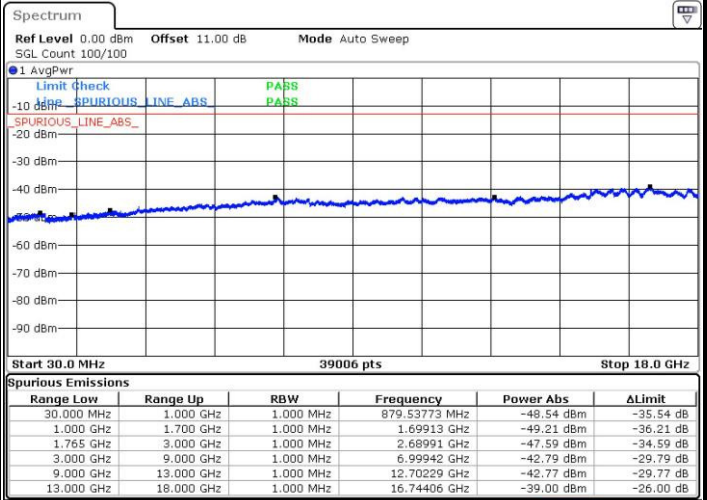
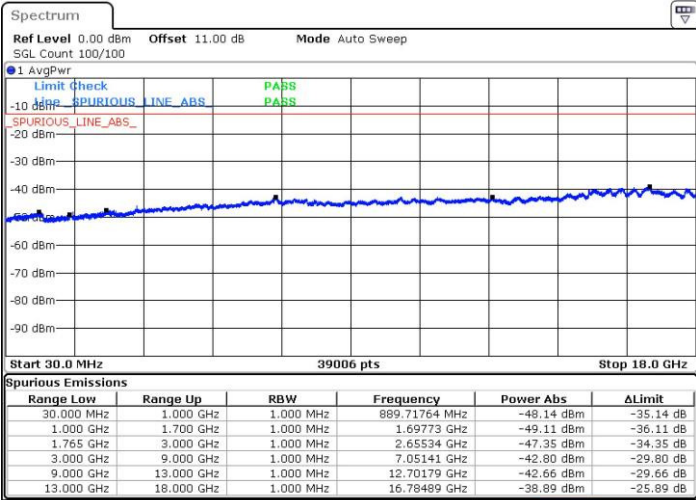
Date: 24.MAR.2016 15:37:02



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

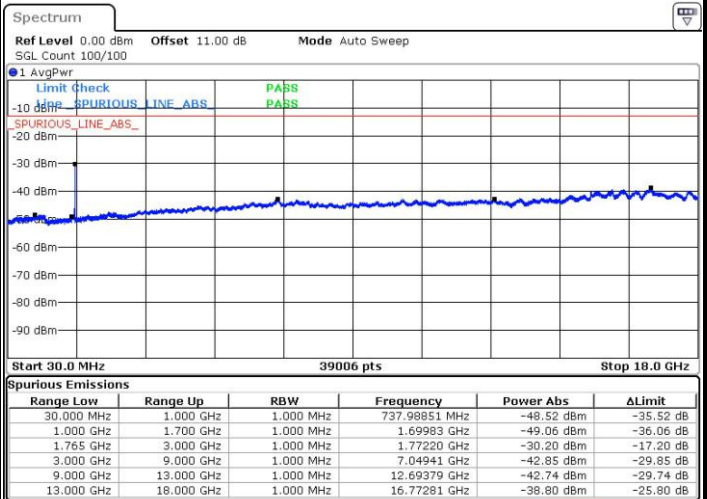
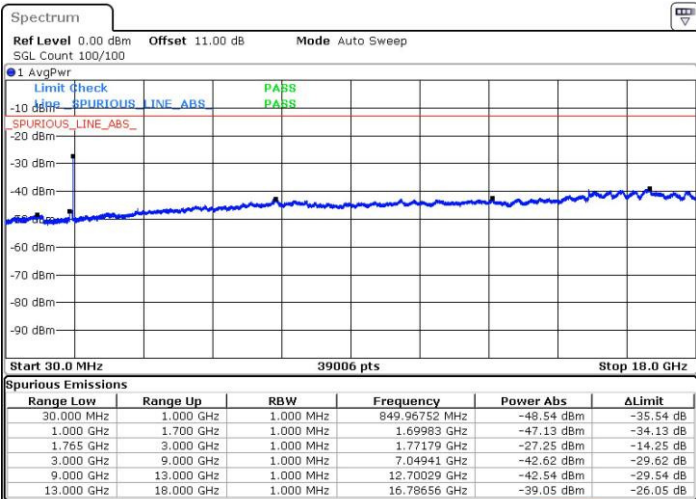


Date: 24.MAR.2016 15:38:40

Date: 24.MAR.2016 15:39:34

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24.MAR.2016 15:46:04

Date: 24.MAR.2016 15:47:16



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	0.0127	PASS
40	Normal Voltage	0.0083	
30	Normal Voltage	0.0260	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0070	
-30	Normal Voltage	0.0159	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0083	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 12

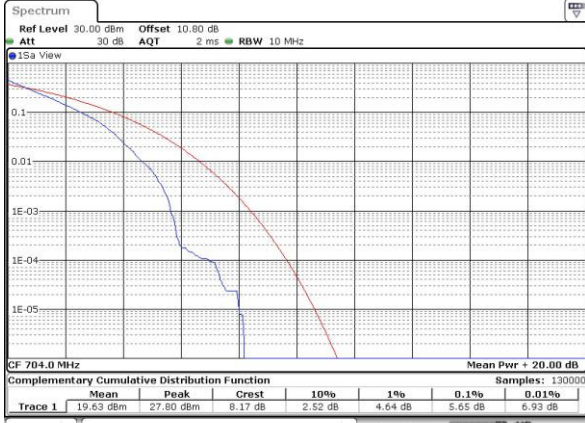
### Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.65	5.22	6.52	5.91	<b>PASS</b>
Middle CH	5.33	5.13	6.32	5.86	
Highest CH	5.39	5.48	6.14	6.26	



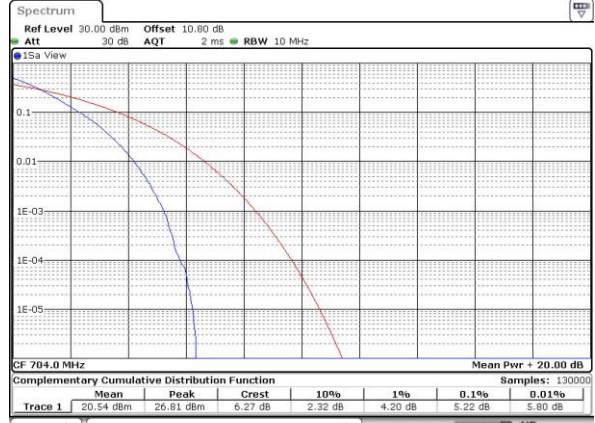
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 24.MAR.2016 17:31:21

Lowest Channel / Full RB



Date: 24.MAR.2016 17:31:03

Middle Channel / 1RB



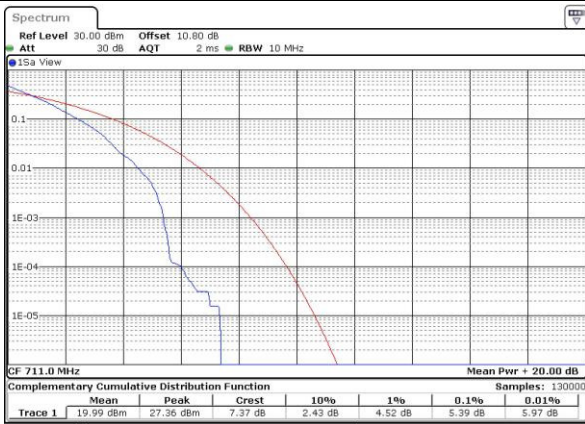
Date: 24.MAR.2016 17:31:39

Middle Channel / Full RB



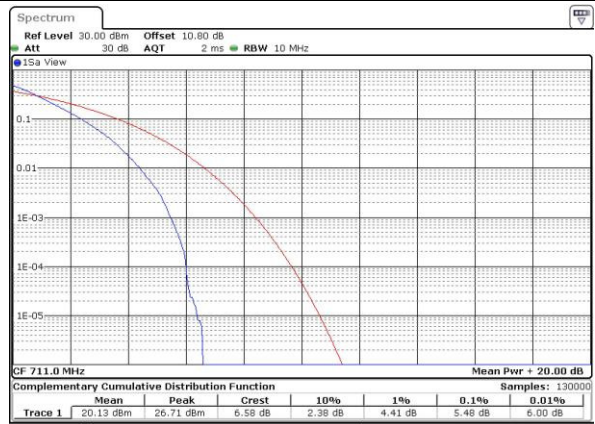
Date: 24.MAR.2016 17:31:49

Highest Channel / 1RB



Date: 24.MAR.2016 17:32:20

Highest Channel / Full RB



Date: 24.MAR.2016 17:32:05



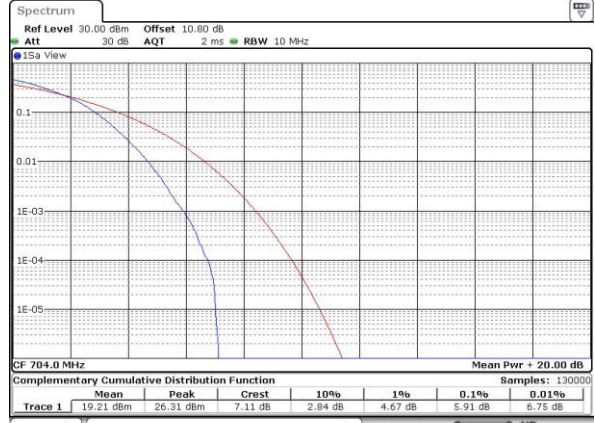
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



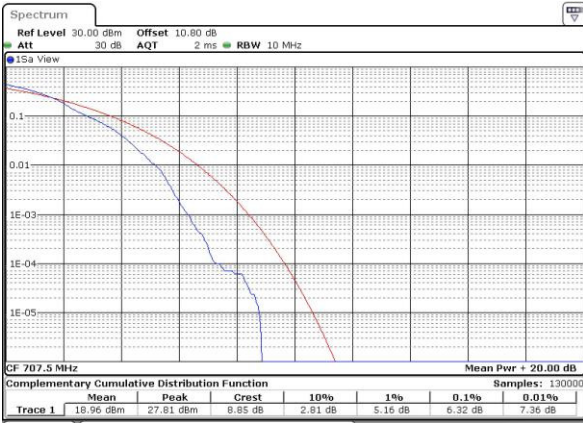
Date: 24.MAR.2016 17:29:27

Lowest Channel / Full RB



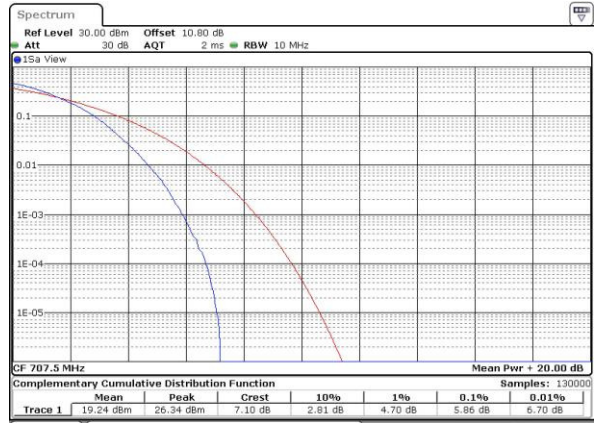
Date: 24.MAR.2016 17:29:02

Middle Channel / 1RB



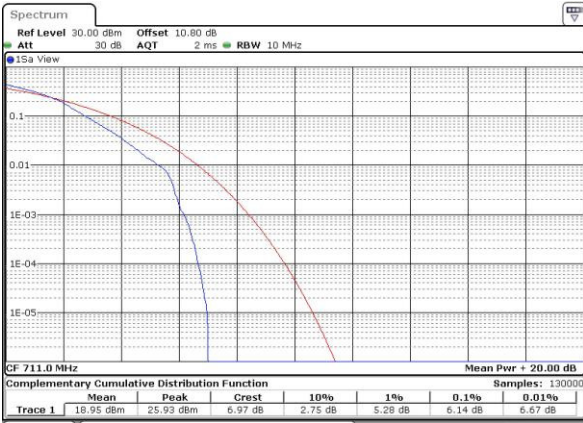
Date: 24.MAR.2016 17:29:46

Middle Channel / Full RB



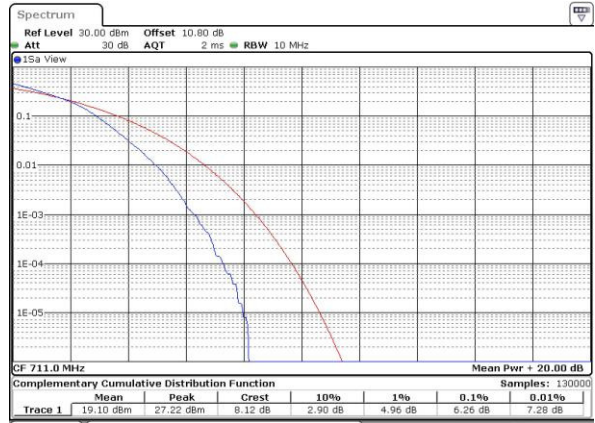
Date: 24.MAR.2016 17:30:08

Highest Channel / 1RB



Date: 24.MAR.2016 17:30:52

Highest Channel / Full RB



Date: 24.MAR.2016 17:30:36



**26dB Bandwidth**

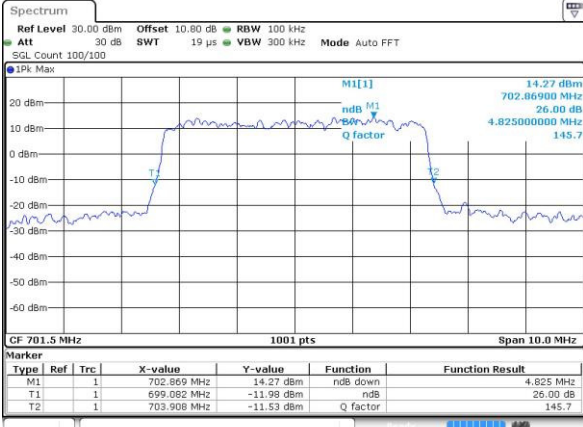
Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.83	4.9	9.61	9.89	-	-	-	-
Middle CH	-	-	-	-	4.88	4.82	9.69	9.69	-	-	-	-
Highest CH	-	-	-	-	4.87	4.88	9.77	9.87	-	-	-	-





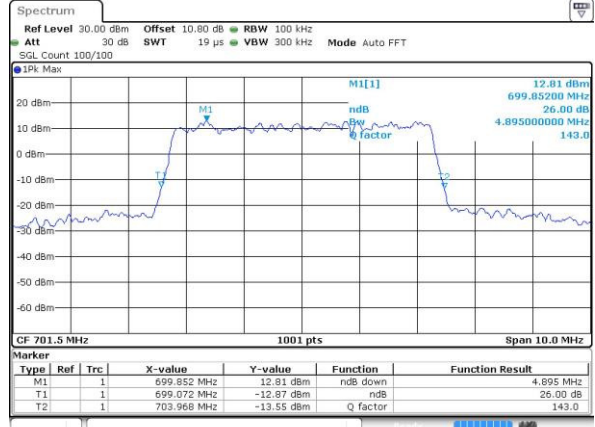
LTE Band 12

Lowest Channel / 5MHz / QPSK



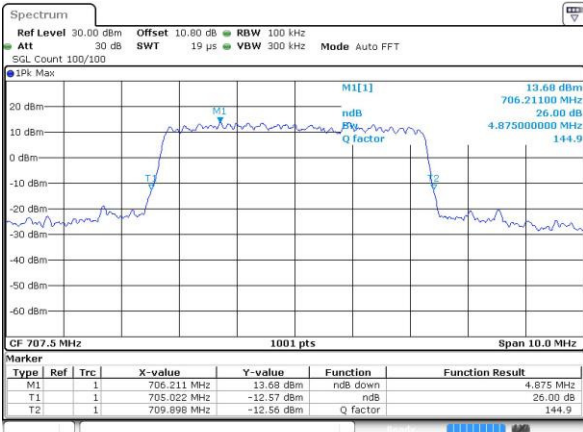
Date: 24 MAR 2016 16:01:50

Lowest Channel / 5MHz / 16QAM



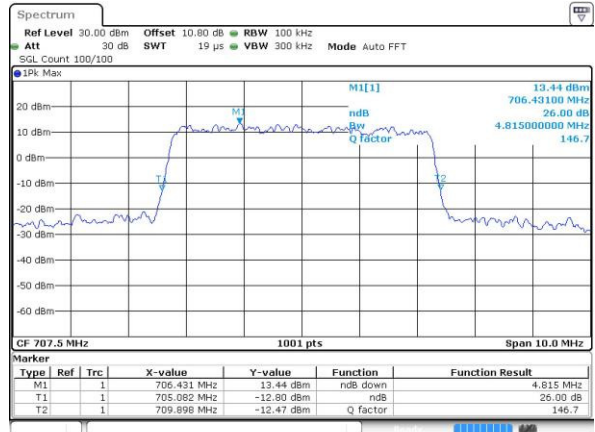
Date: 24 MAR 2016 16:01:39

Middle Channel / 5MHz / QPSK



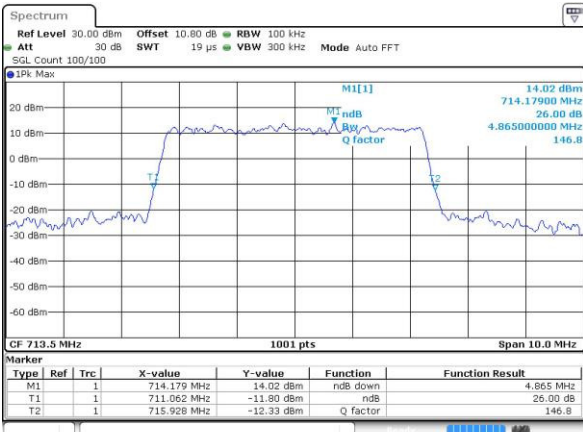
Date: 24 MAR 2016 16:14:12

Middle Channel / 5MHz / 16QAM



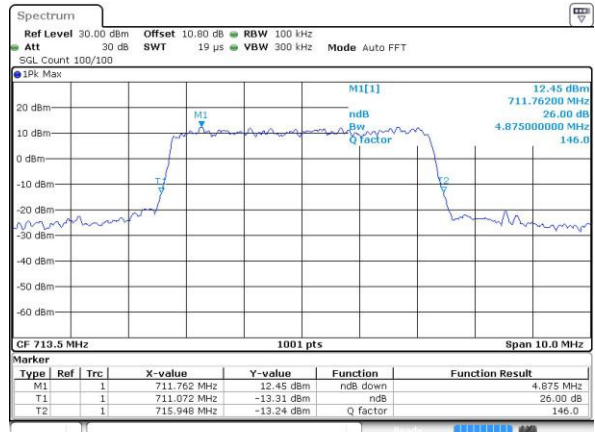
Date: 24 MAR 2016 16:14:23

Highest Channel / 5MHz / QPSK



Date: 24 MAR 2016 16:16:54

Highest Channel / 5MHz / 16QAM

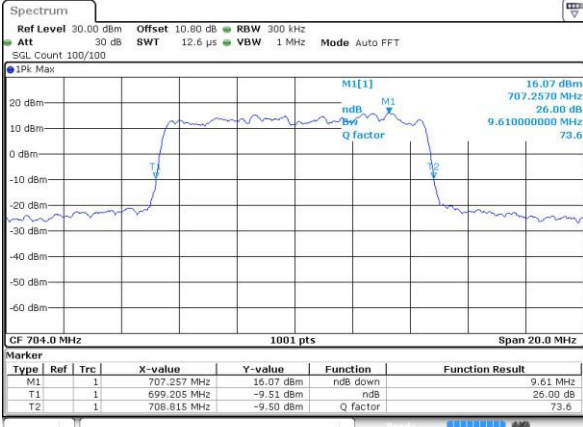


Date: 24 MAR 2016 16:16:44



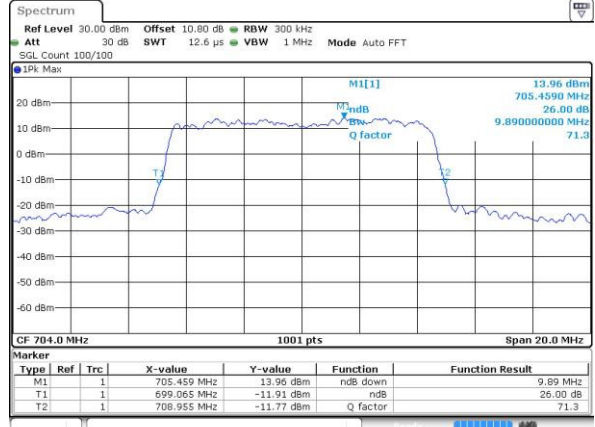
LTE Band 12

Lowest Channel / 10MHz / QPSK



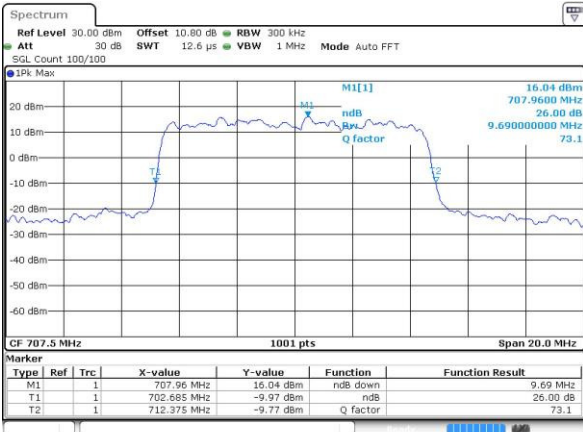
Date: 24 MAR 2016 16:53:24

Lowest Channel / 10MHz / 16QAM



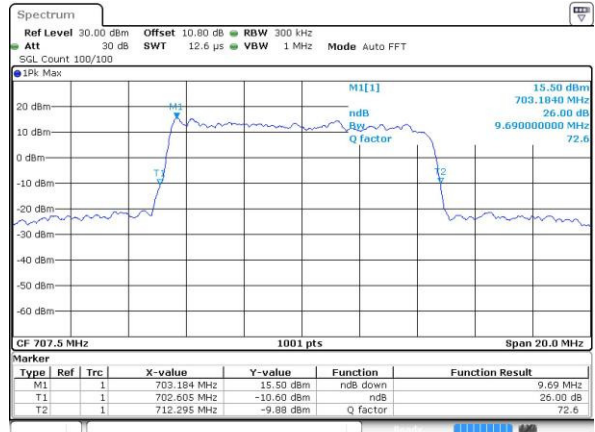
Date: 24 MAR 2016 17:34:14

Middle Channel / 10MHz / QPSK



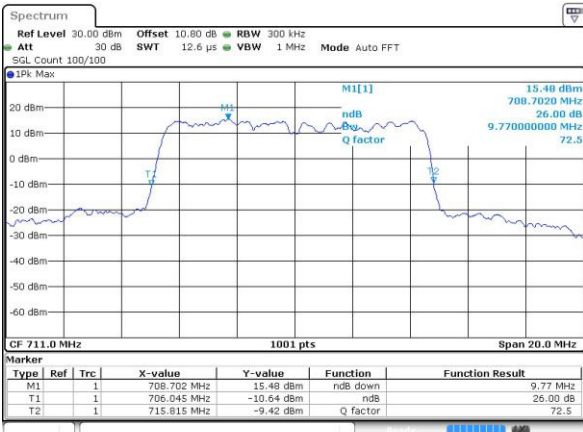
Date: 24 MAR 2016 17:12:56

Middle Channel / 10MHz / 16QAM



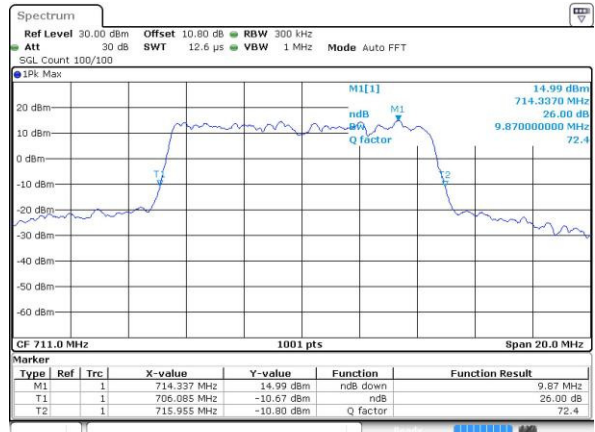
Date: 24 MAR 2016 17:13:07

Highest Channel / 10MHz / QPSK



Date: 24 MAR 2016 17:17:14

Highest Channel / 10MHz / 16QAM



Date: 24 MAR 2016 17:17:04



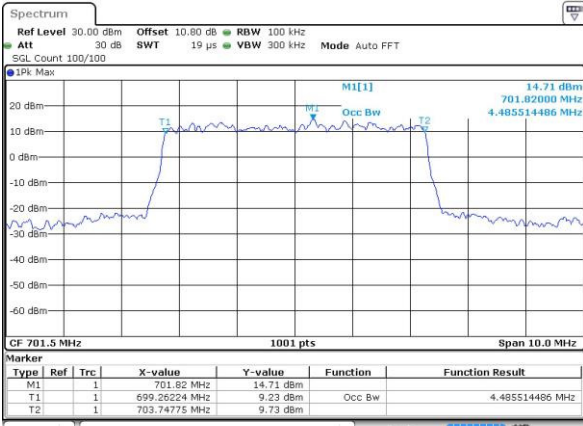
### Occupied Bandwidth

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
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.48	8.99	8.99	-	-	-	-
Middle CH	-	-	-	-	4.47	4.47	8.99	9.01	-	-	-	-
Highest CH	-	-	-	-	4.48	4.48	9.03	9.03	-	-	-	-



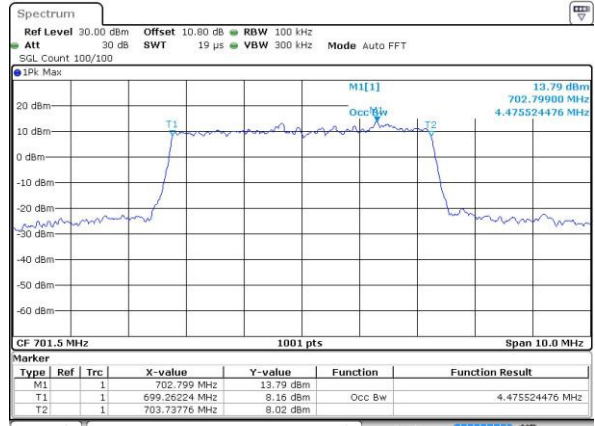
LTE Band 12

Lowest Channel / 5MHz / QPSK



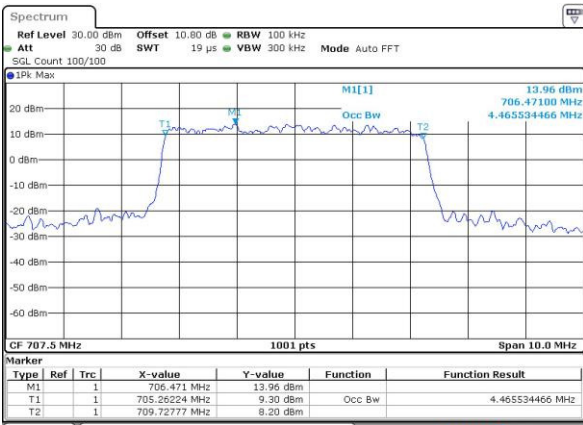
Date: 24 MAR 2016 17:33:27

Lowest Channel / 5MHz / 16QAM



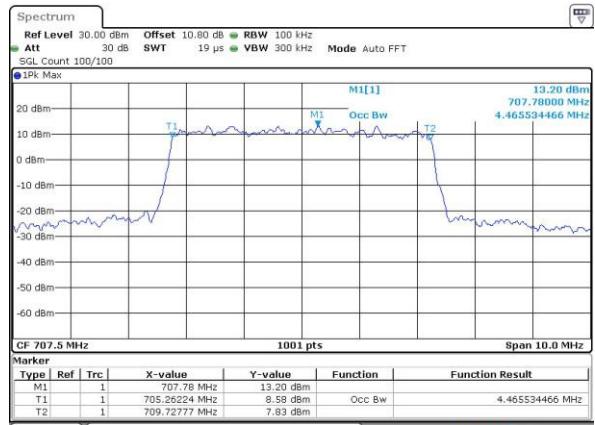
Date: 24 MAR 2016 16:01:29

Middle Channel / 5MHz / QPSK



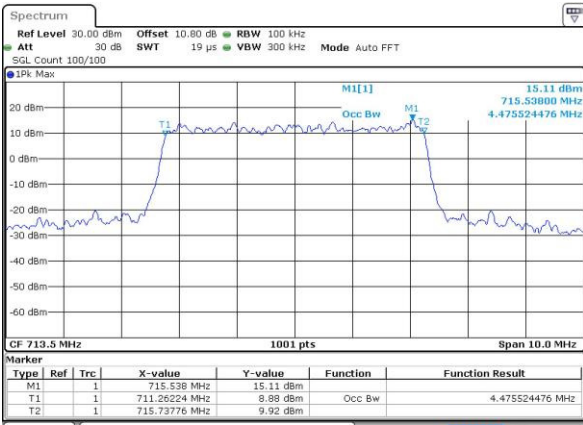
Date: 24 MAR 2016 16:14:02

Middle Channel / 5MHz / 16QAM



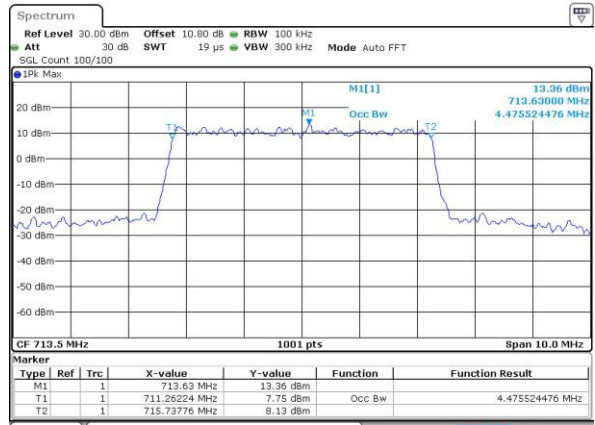
Date: 24 MAR 2016 16:13:51

Highest Channel / 5MHz / QPSK



Date: 24 MAR 2016 16:16:23

Highest Channel / 5MHz / 16QAM

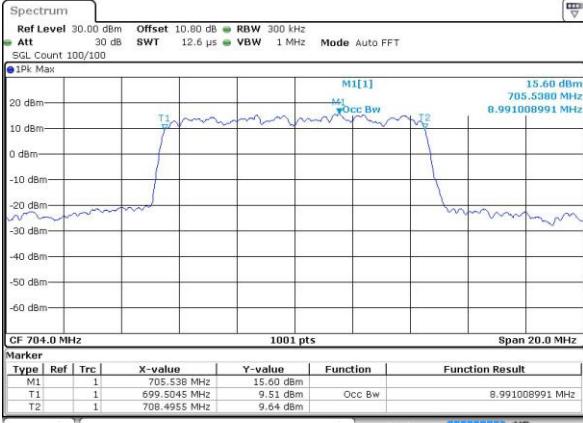


Date: 24 MAR 2016 16:16:33



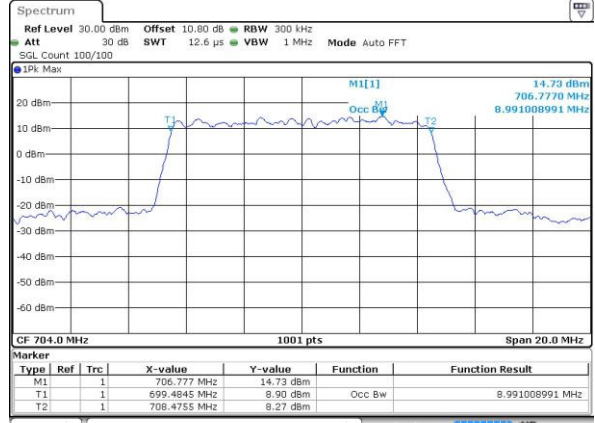
LTE Band 12

Lowest Channel / 10MHz / QPSK



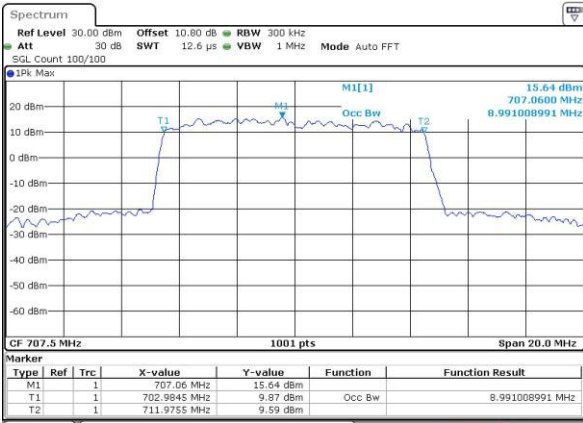
Date: 24 MAR 2016 16:29:57

Lowest Channel / 10MHz / 16QAM



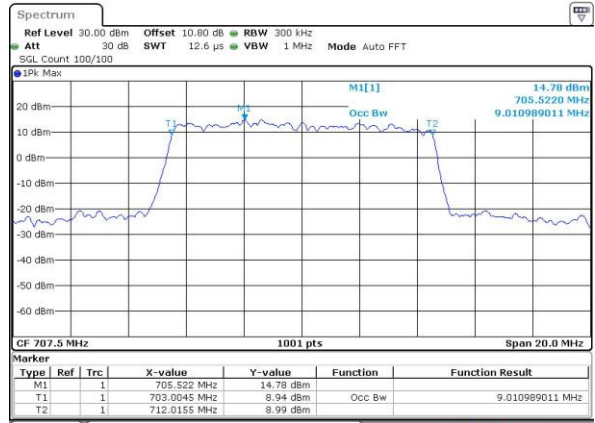
Date: 24 MAR 2016 16:30:08

Middle Channel / 10MHz / QPSK



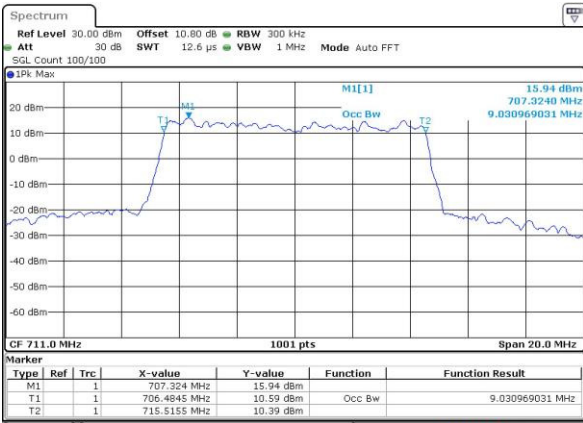
Date: 24 MAR 2016 17:12:46

Middle Channel / 10MHz / 16QAM



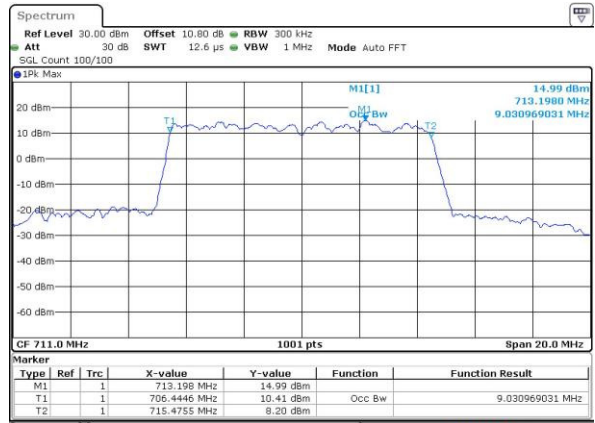
Date: 24 MAR 2016 17:12:35

Highest Channel / 10MHz / QPSK



Date: 24 MAR 2016 17:34:57

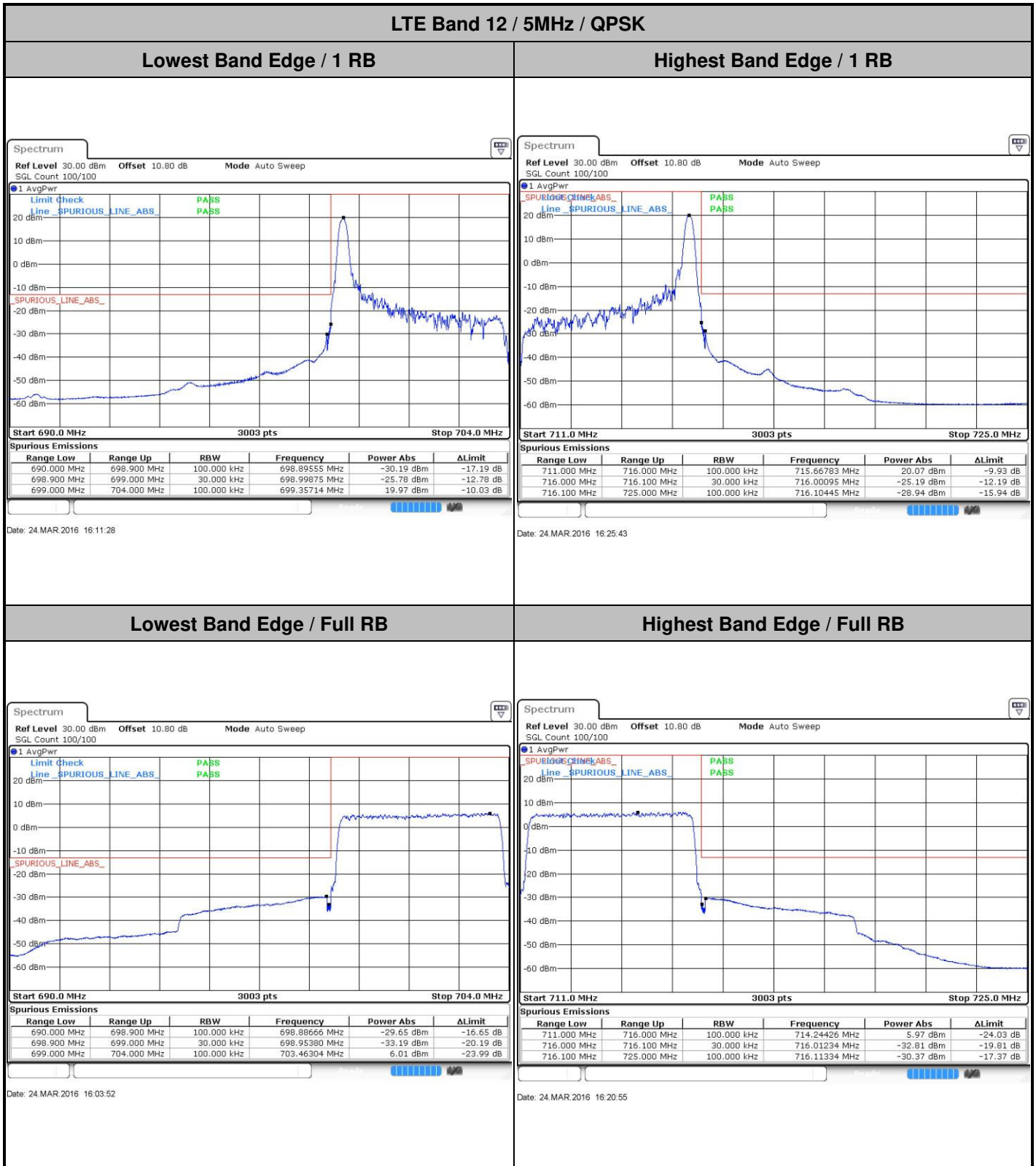
Highest Channel / 10MHz / 16QAM



Date: 24 MAR 2016 17:16:53



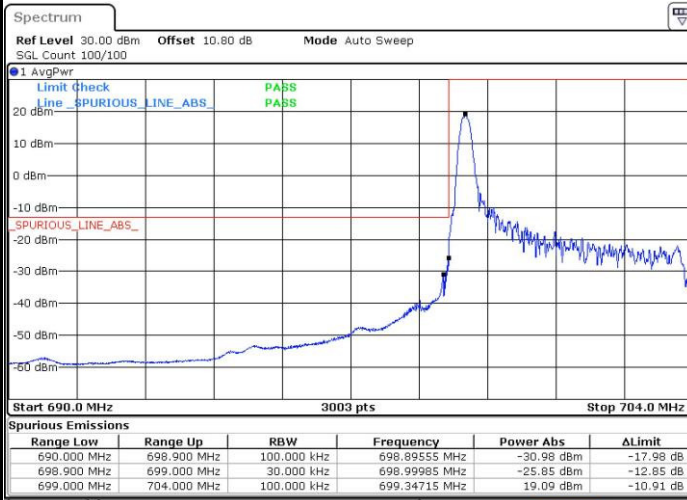
# Conducted Band Edge





LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 24.MAR.2016 16:08:12

Highest Band Edge / 1 RB



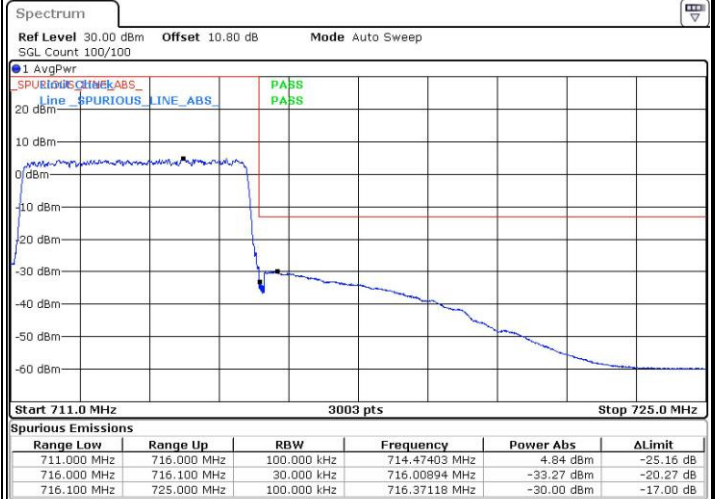
Date: 24.MAR.2016 16:27:57

Lowest Band Edge / Full RB



Date: 24.MAR.2016 16:06:10

Highest Band Edge / Full RB

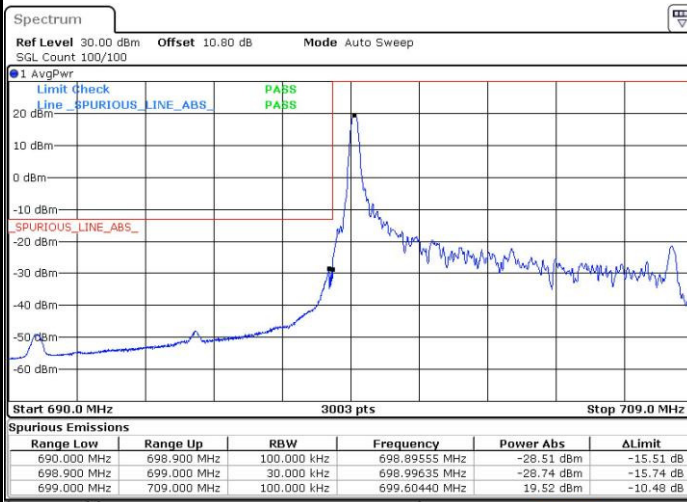


Date: 24.MAR.2016 16:22:57



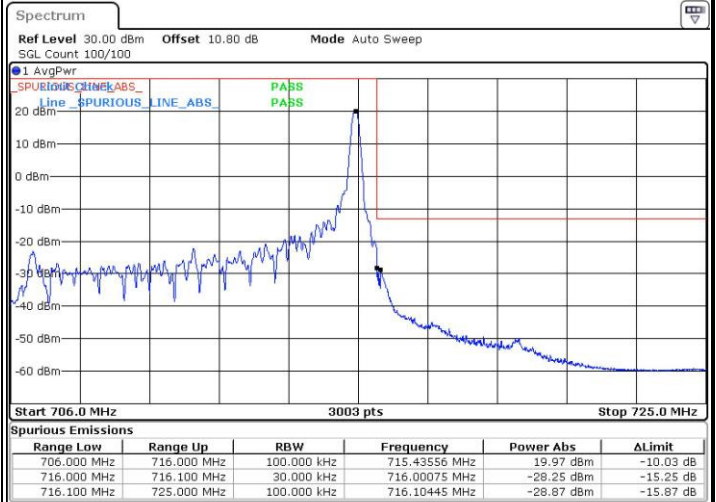
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



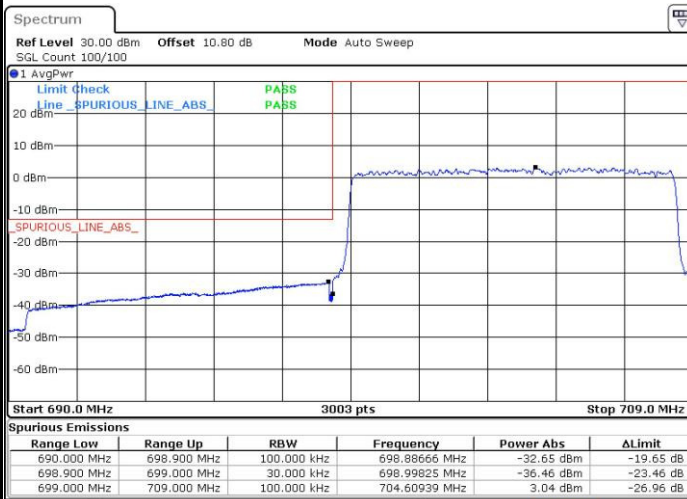
Date: 24.MAR.2016 17:04:01

Highest Band Edge / 1 RB



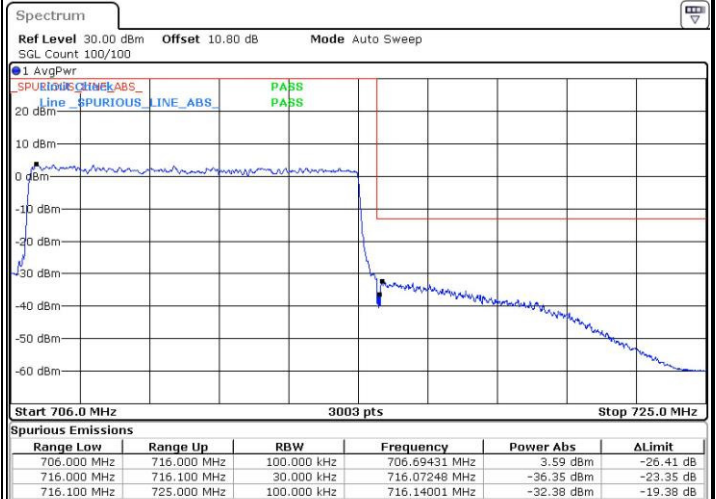
Date: 24.MAR.2016 17:26:17

Lowest Band Edge / Full RB



Date: 24.MAR.2016 16:55:26

Highest Band Edge / Full RB



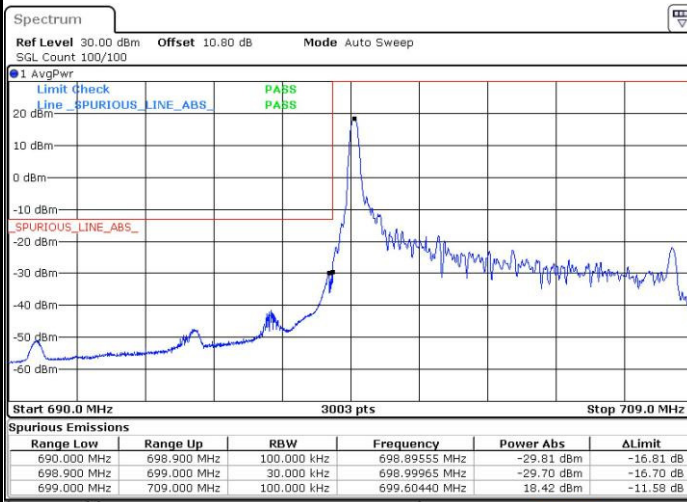
Date: 24.MAR.2016 17:19:16





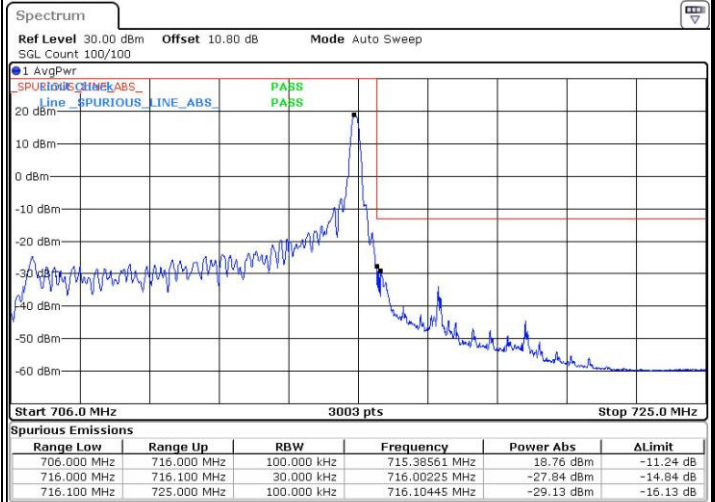
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



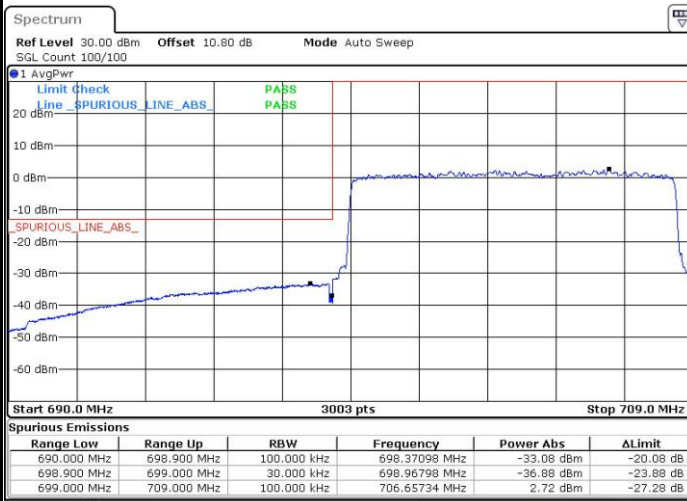
Date: 24.MAR.2016 17:01:28

Highest Band Edge / 1 RB



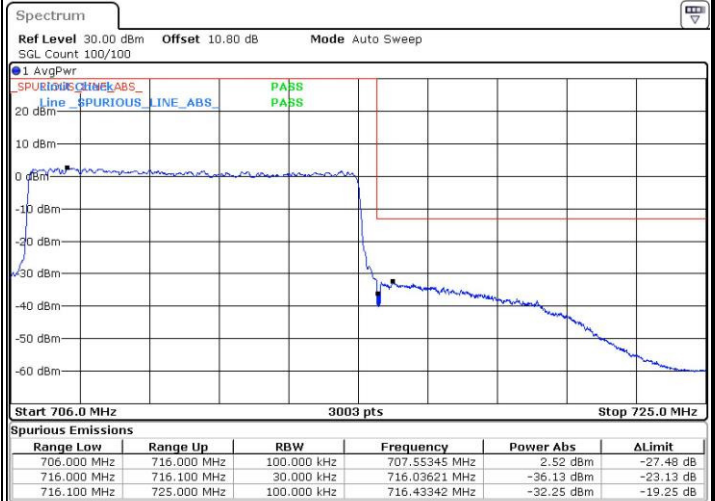
Date: 24.MAR.2016 17:23:43

Lowest Band Edge / Full RB



Date: 24.MAR.2016 16:57:28

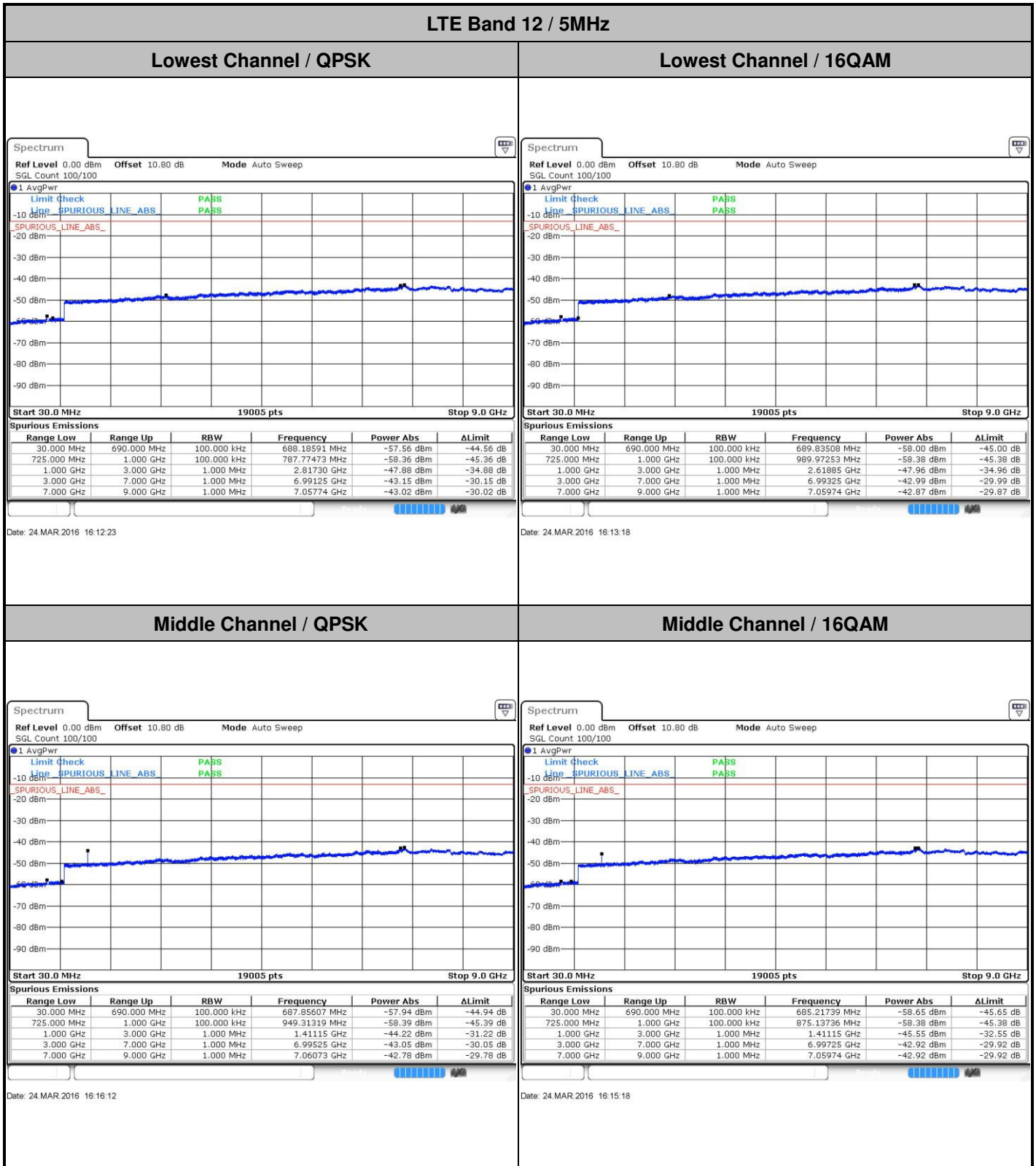
Highest Band Edge / Full RB



Date: 24.MAR.2016 17:21:41



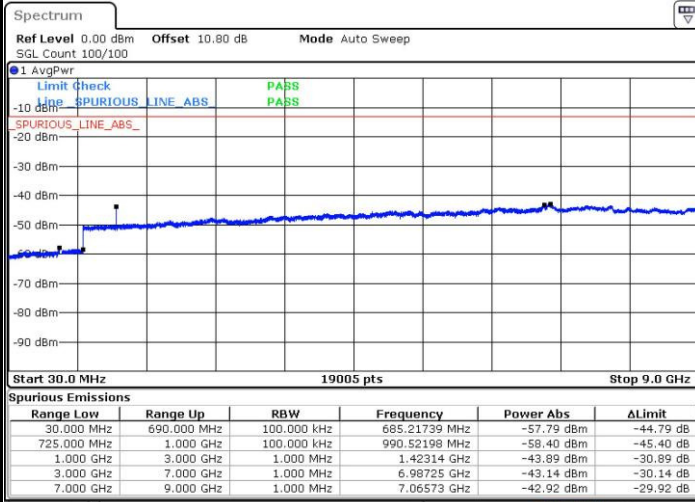
# Conducted Spurious Emission





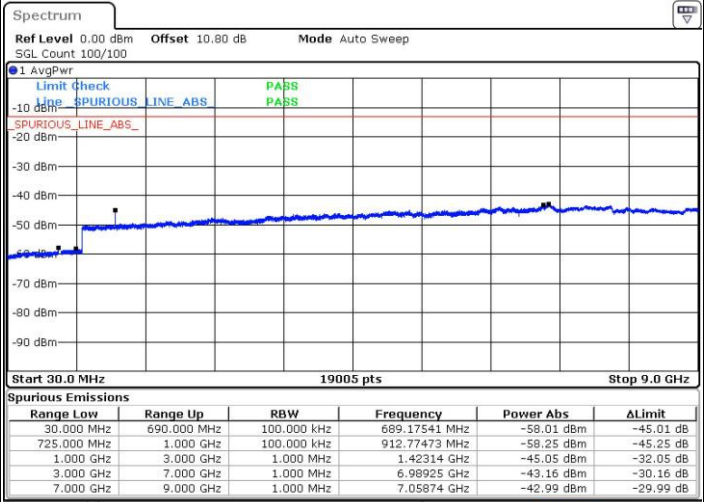
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 24 MAR 2016 16:29:47

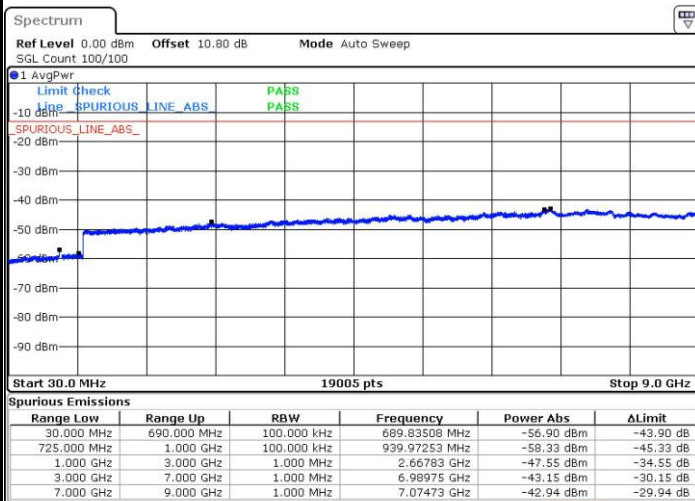
Highest Channel / 16QAM



Date: 24 MAR 2016 16:28:52

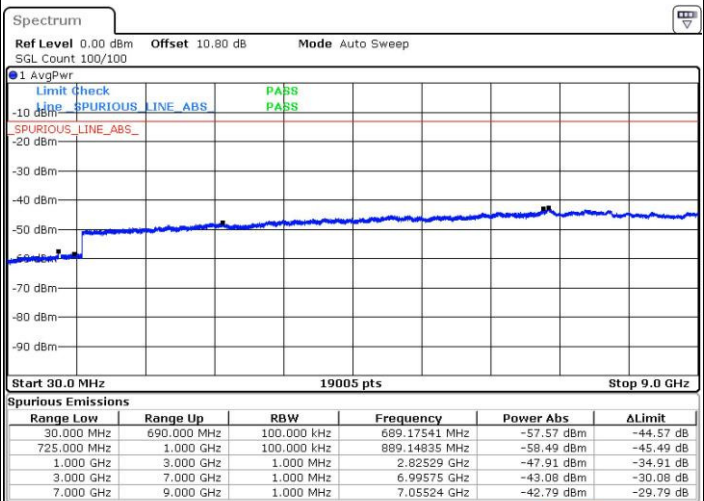
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 24 MAR 2016 17:04:57

Lowest Channel / 16QAM



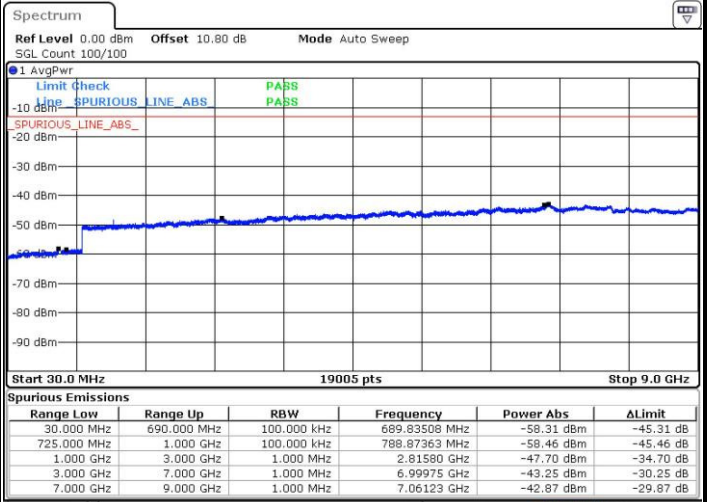
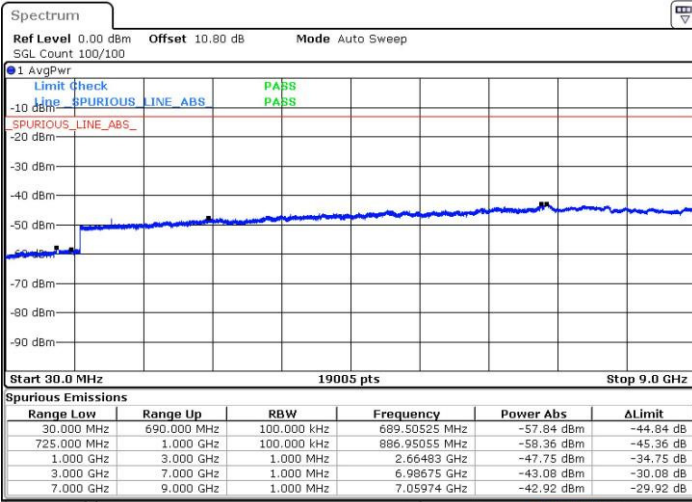
Date: 24 MAR 2016 17:05:51



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

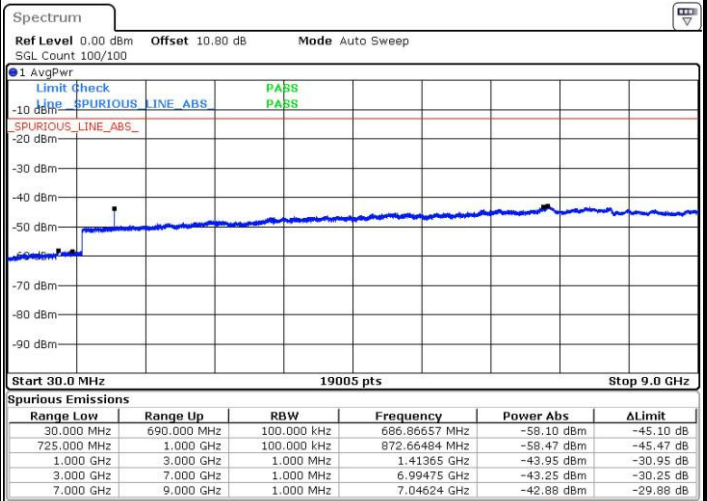
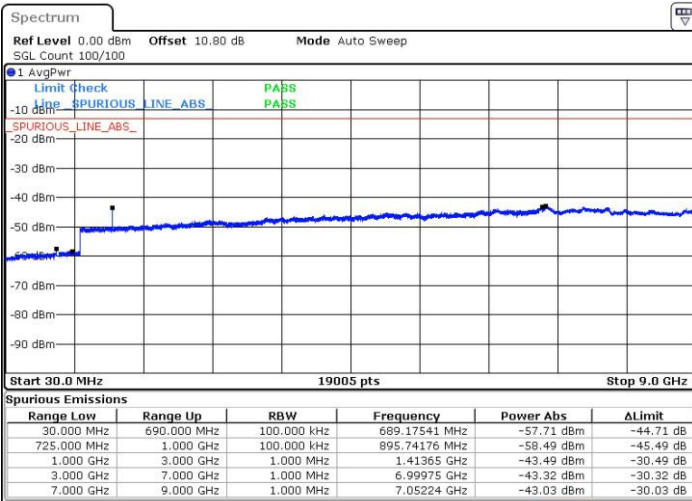


Date: 24.MAR.2016 17:14:56

Date: 24.MAR.2016 17:14:02

Highest Channel / QPSK

Highest Channel / 16QAM



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