



LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



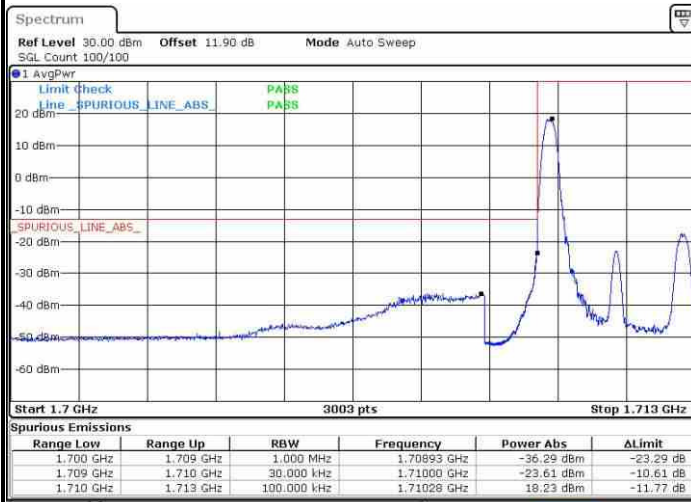
Highest Band Edge / Full RB



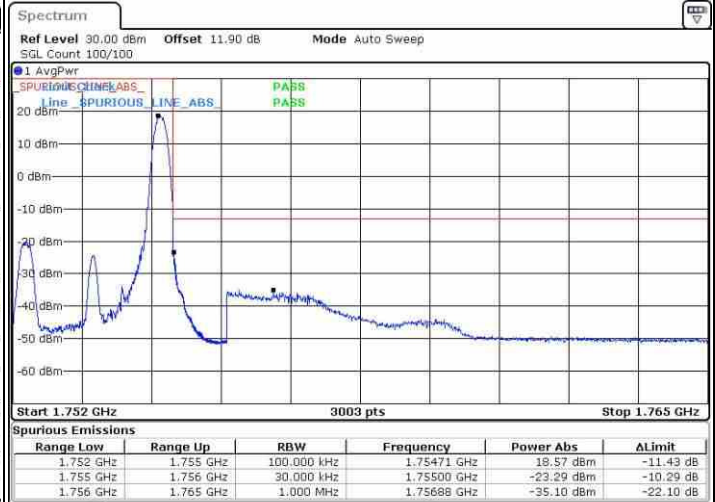


LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



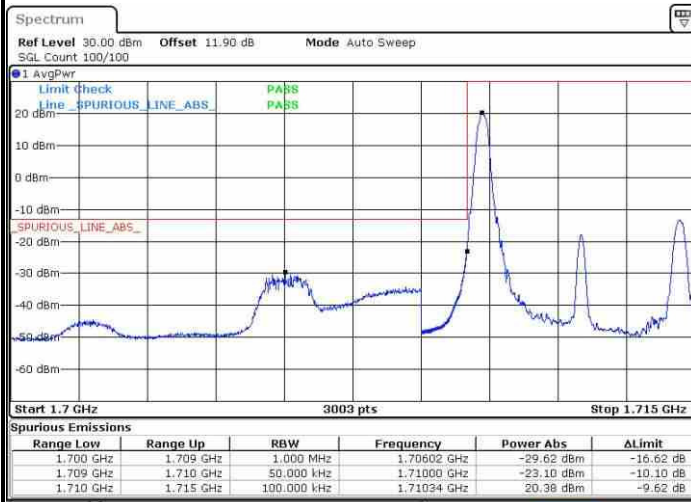
Highest Band Edge / Full RB





LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



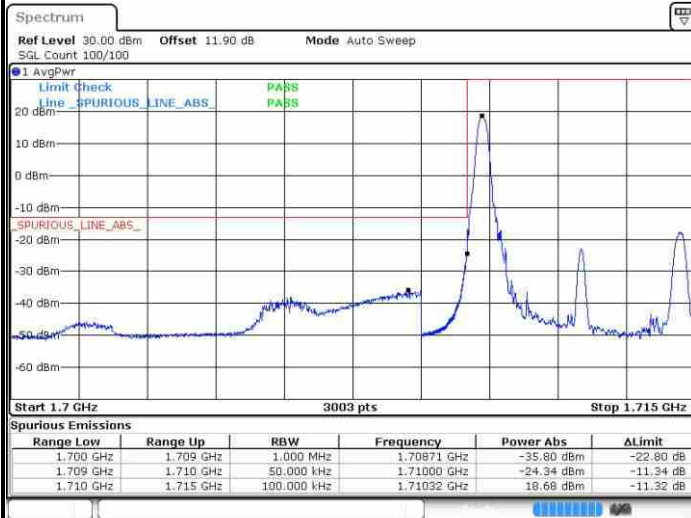
Highest Band Edge / Full RB



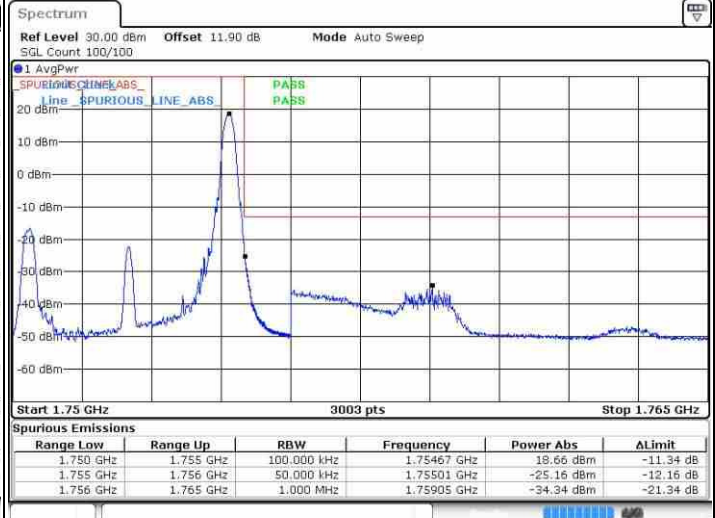


LTE Band 4 / 5MHz / 16QAM

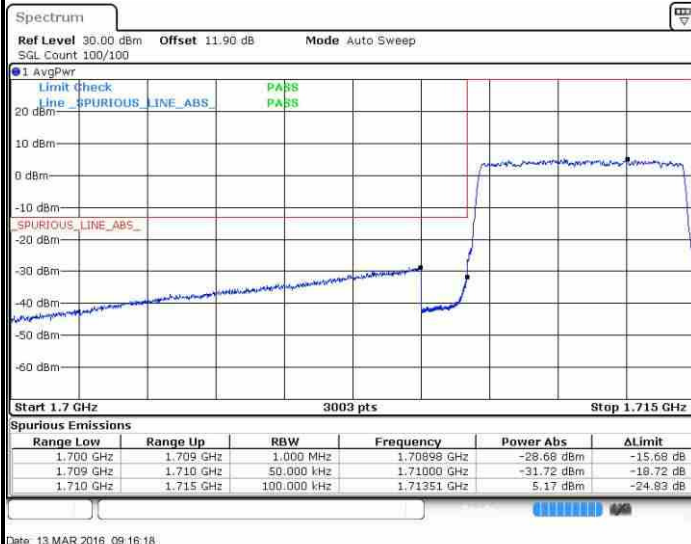
Lowest Band Edge / 1RB



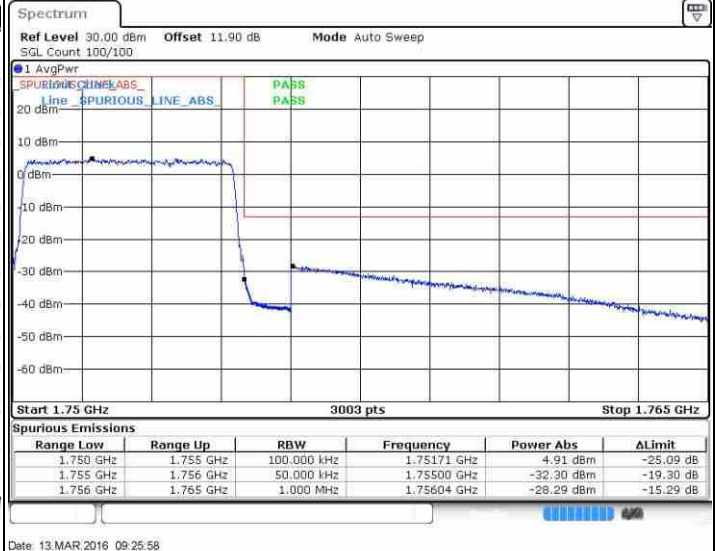
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



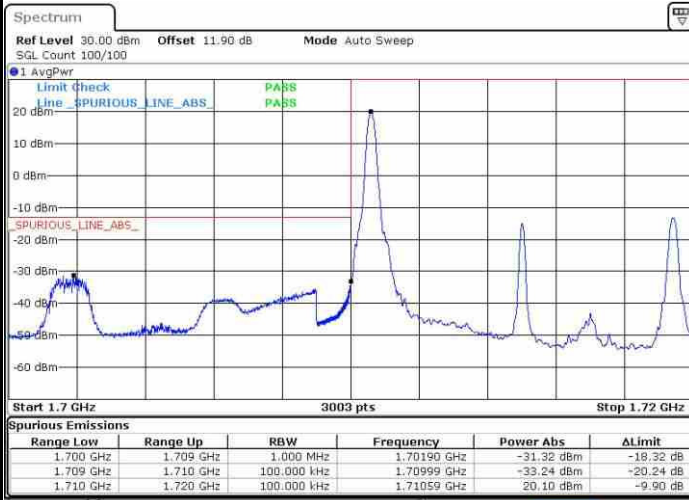
Highest Band Edge / Full RB



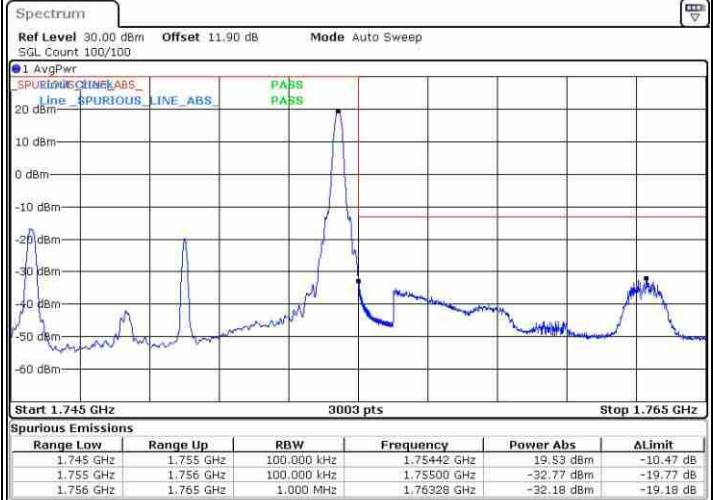


LTE Band 4 / 10MHz / QPSK

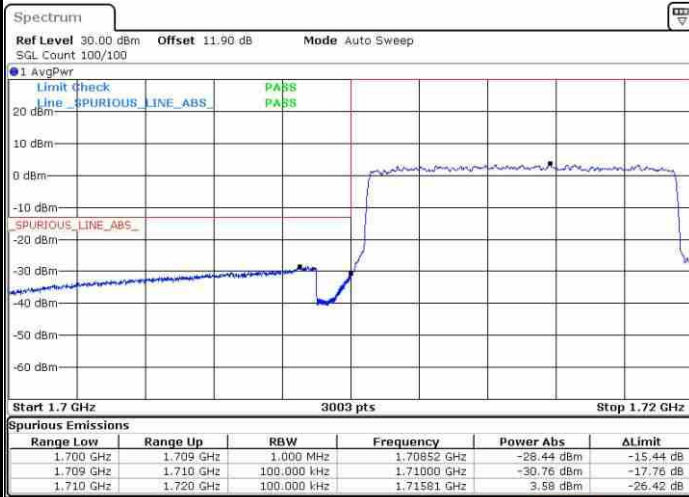
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



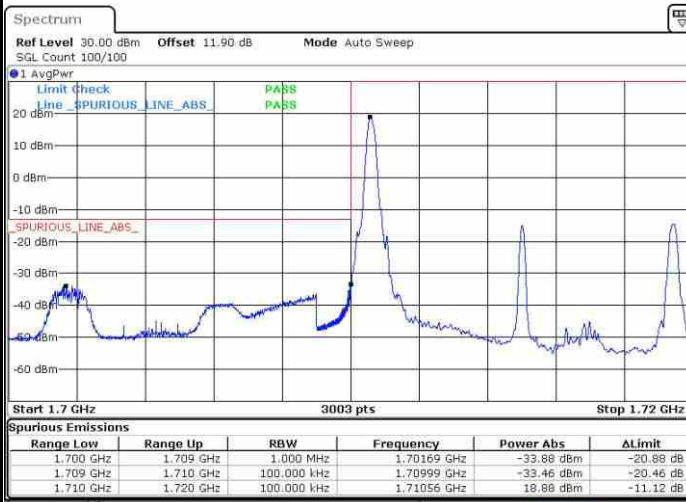
Highest Band Edge / Full RB



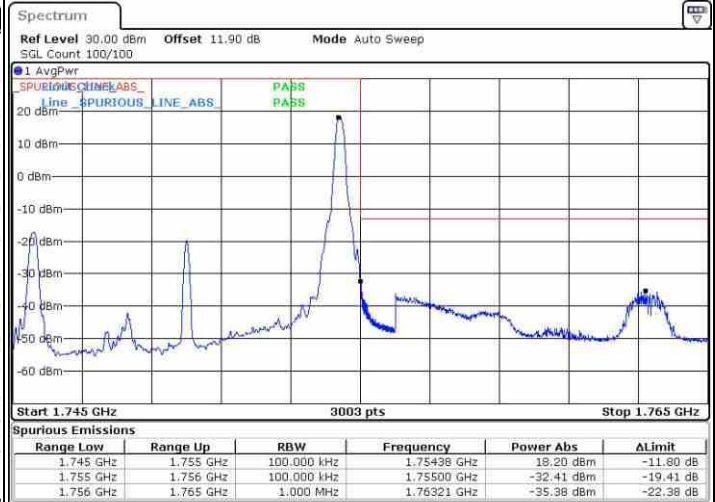


LTE Band 4 / 10MHz / 16QAM

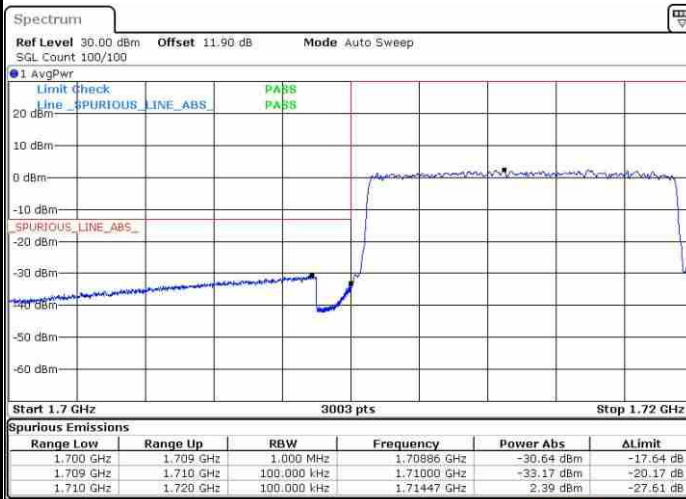
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



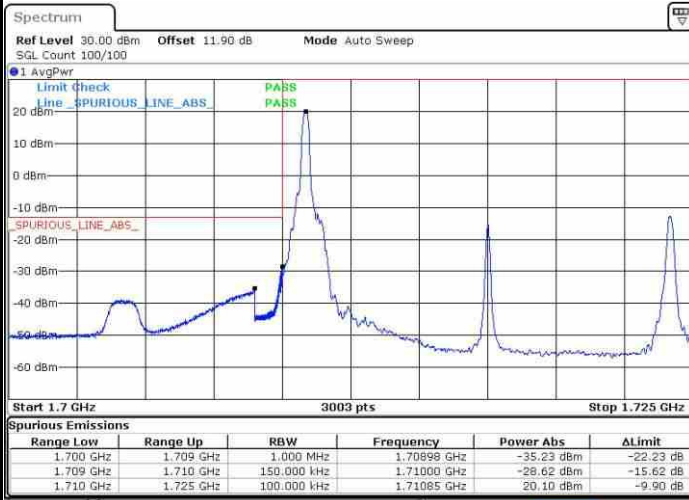
Highest Band Edge / Full RB





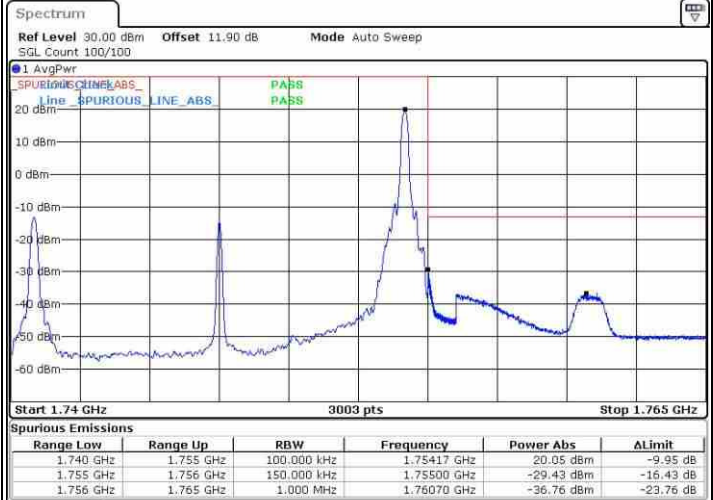
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



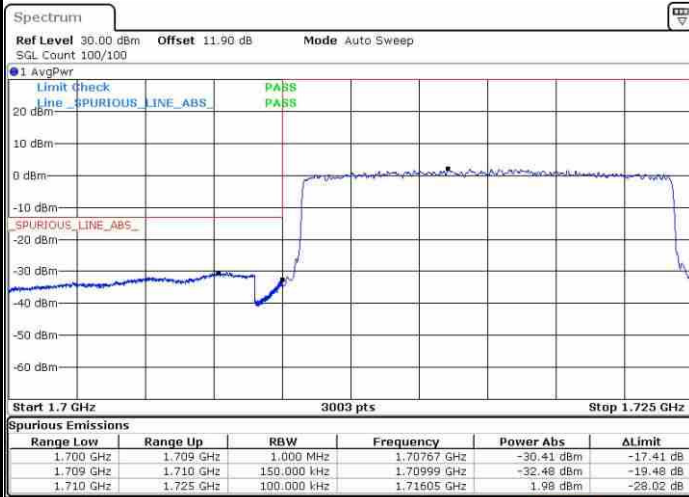
Date: 13 MAR 2016 09:46:28

Highest Band Edge / 1 RB



Date: 13 MAR 2016 09:56:08

Lowest Band Edge / Full RB



Date: 13 MAR 2016 09:48:47

Highest Band Edge / Full RB

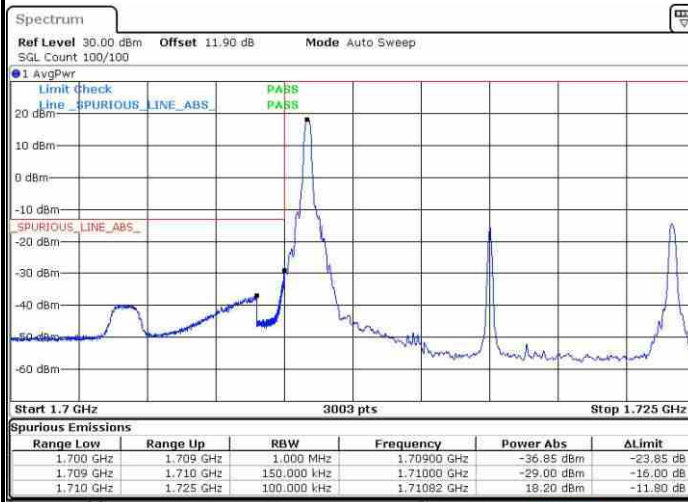


Date: 13 MAR 2016 09:58:27

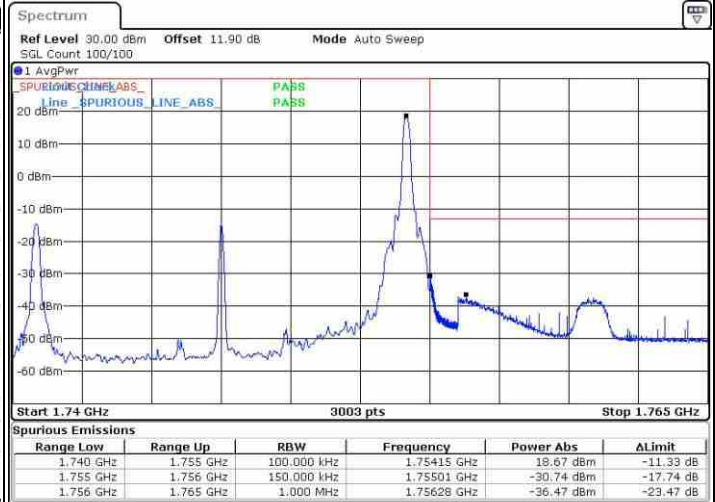


LTE Band 4 / 15MHz / 16QAM

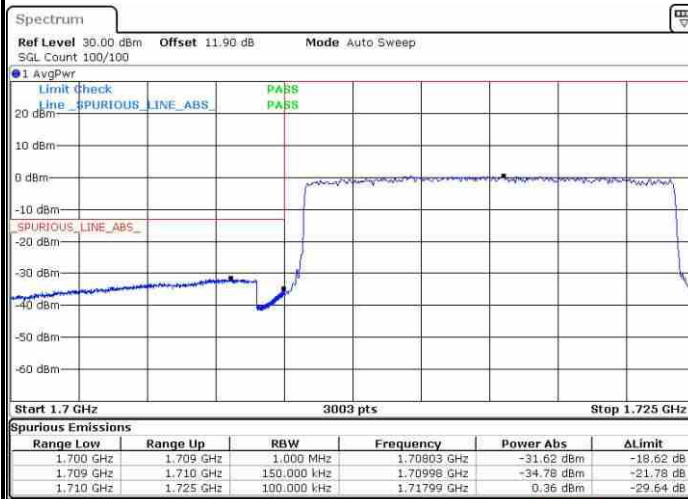
Lowest Band Edge / 1 RB



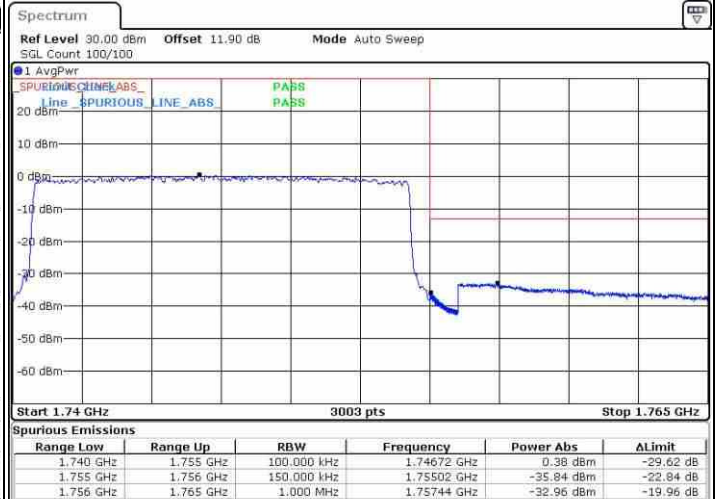
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



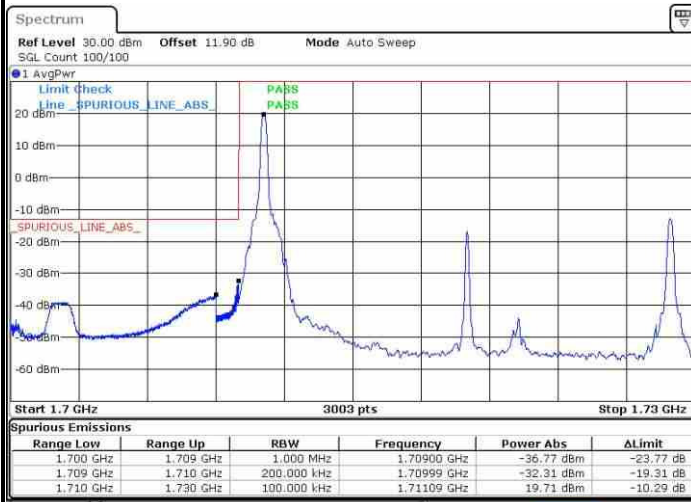
Highest Band Edge / Full RB





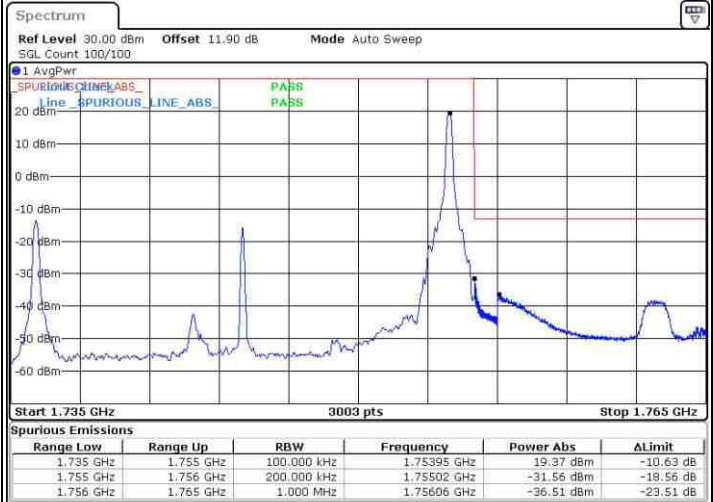
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



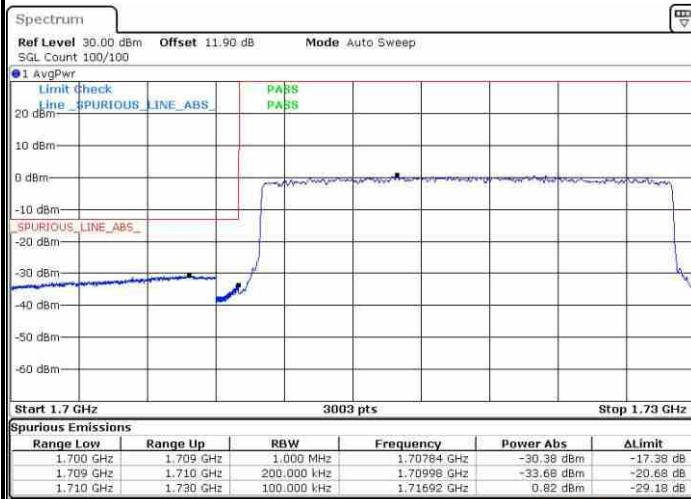
Date: 13 MAR 2016 10:03:17

Highest Band Edge / 1 RB



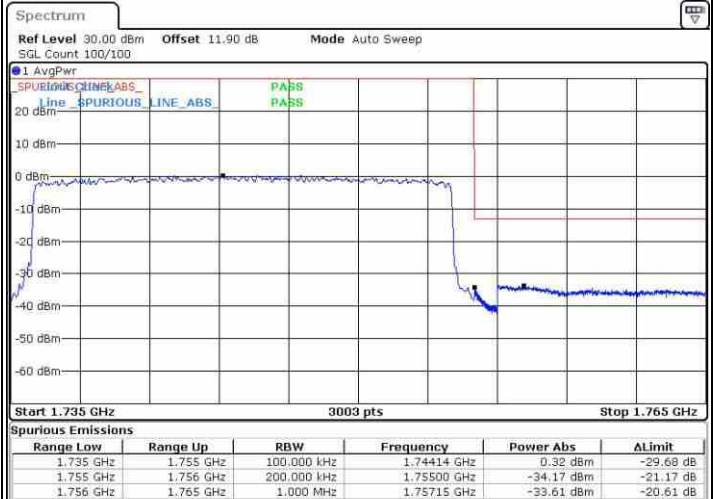
Date: 13 MAR 2016 10:12:57

Lowest Band Edge / Full RB



Date: 13 MAR 2016 10:05:36

Highest Band Edge / Full RB

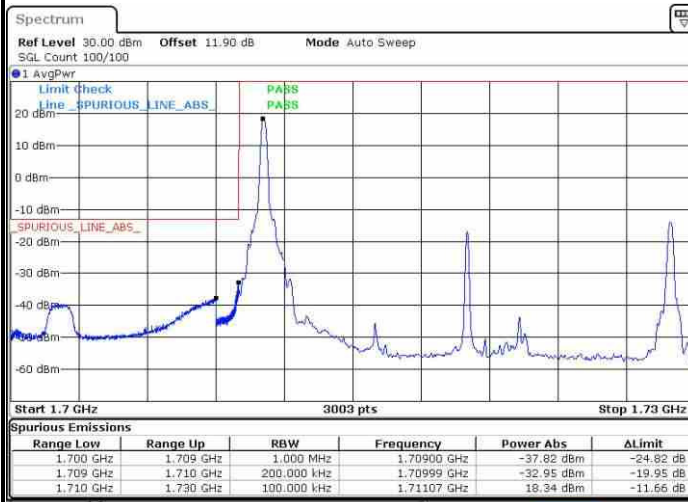


Date: 13 MAR 2016 10:15:16

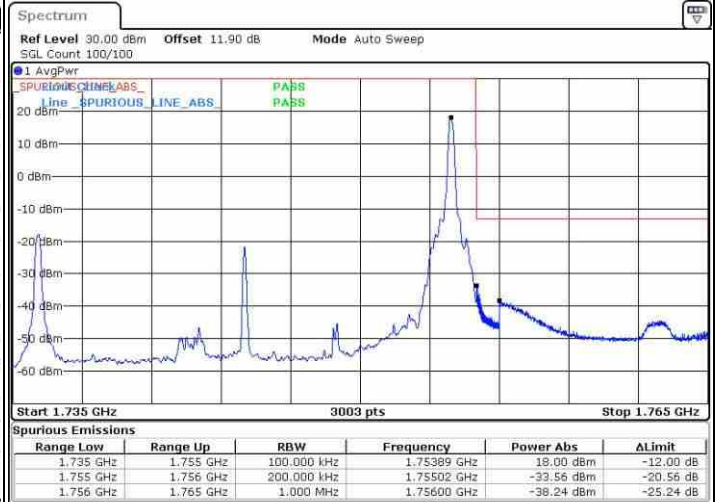


LTE Band 4 / 20MHz / 16QAM

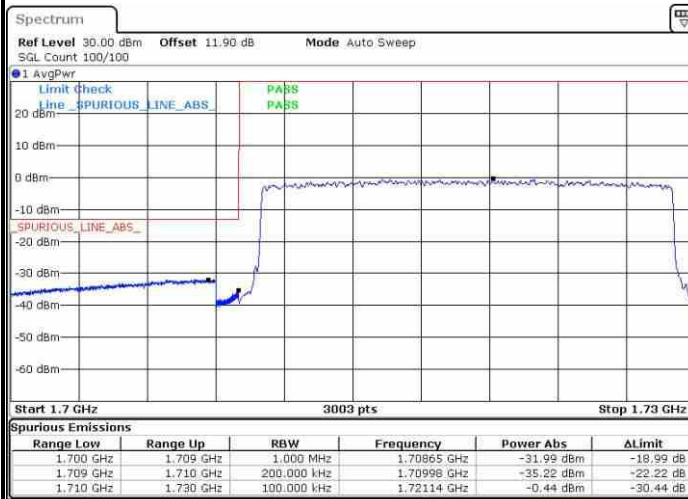
Lowest Band Edge / 1 RB



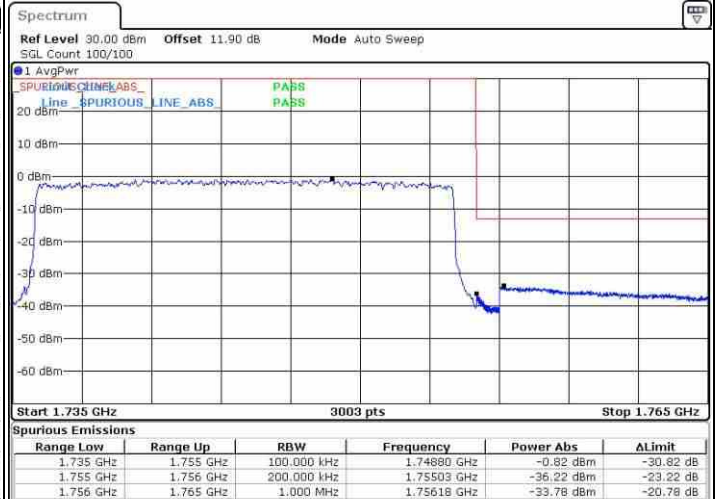
Highest Band Edge / 1 RB

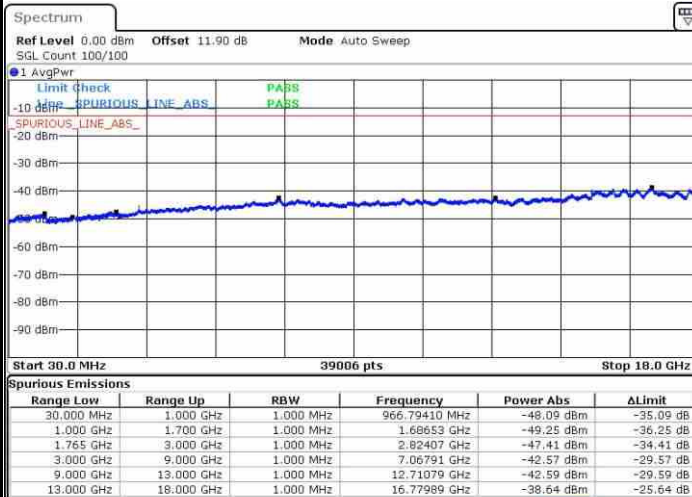


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

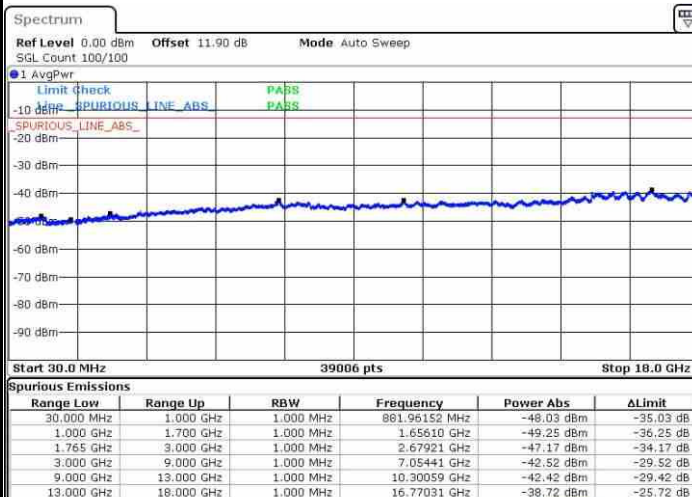


**Conducted Spurious Emission****LTE Band 4 / 1.4MHz****Lowest Channel / QPSK**

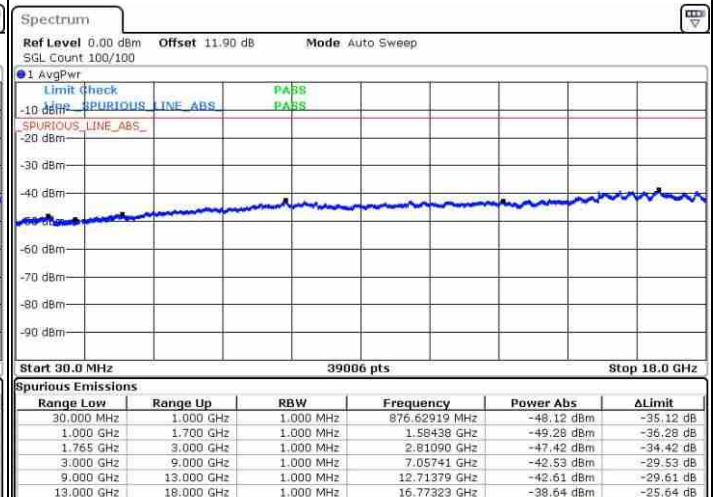
Date: 13 MAR 2016 10:28:42

Lowest Channel / 16QAM

Date: 13 MAR 2016 10:29:37

Middle Channel / QPSK

Date: 13 MAR 2016 10:31:13

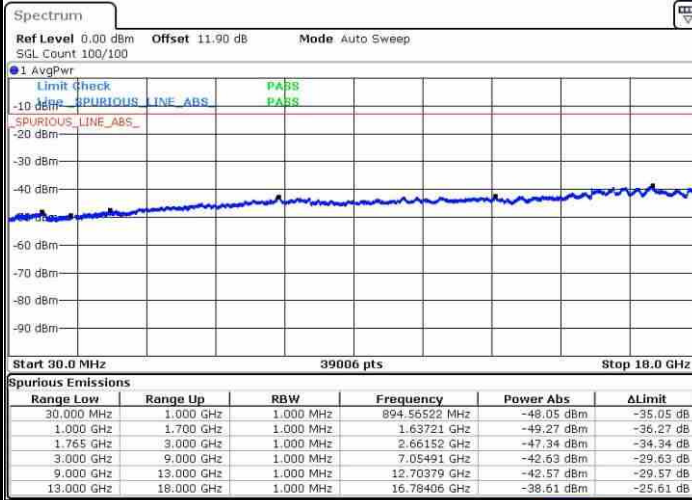
Middle Channel / 16QAM

Date: 13 MAR 2016 10:32:08



LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 13 MAR 2016 10:38:22

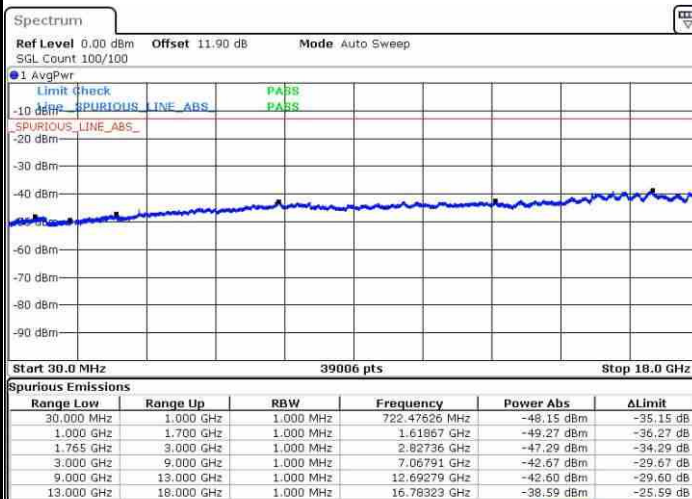
Highest Channel / 16QAM



Date: 13 MAR 2016 10:39:17

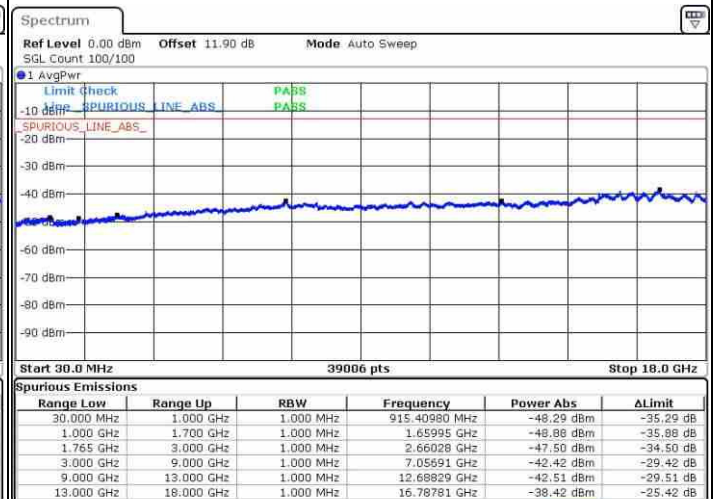
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 13 MAR 2016 09:00:25

Lowest Channel / 16QAM

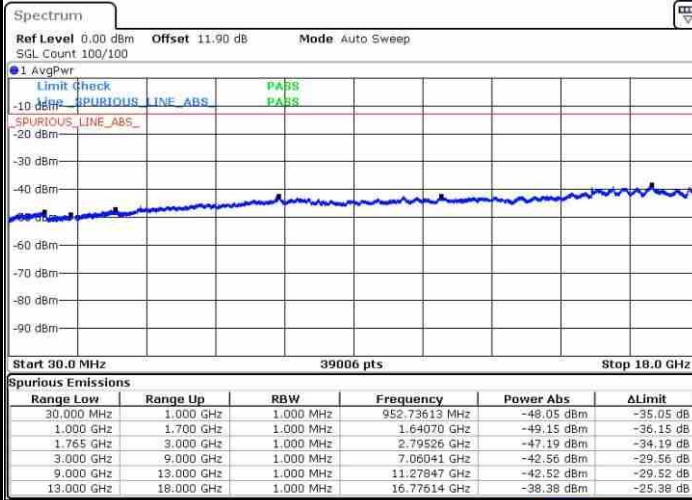


Date: 13 MAR 2016 09:01:20



LTE Band 4 / 3MHz

Middle Channel / QPSK



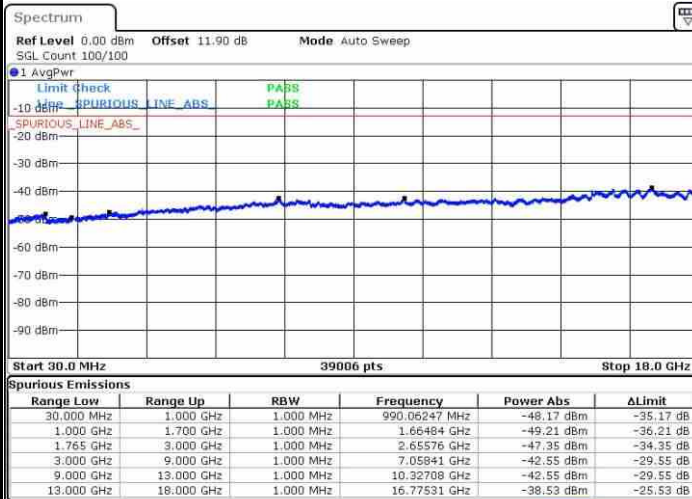
Date: 13 MAR 2016 09:02:57

Middle Channel / 16QAM



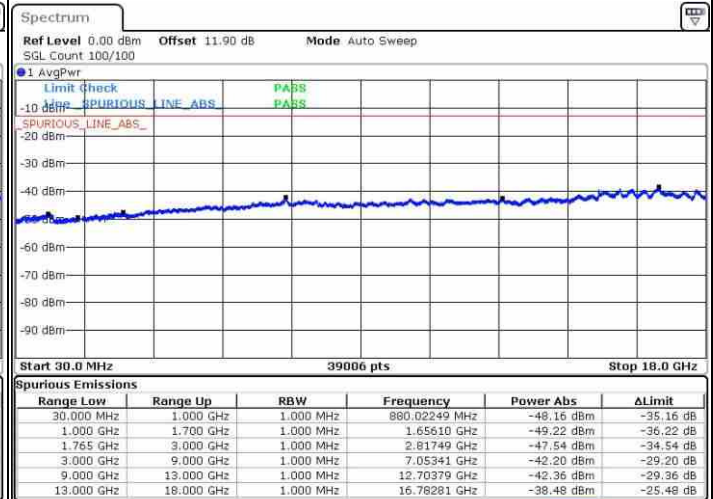
Date: 13 MAR 2016 09:03:51

Highest Channel / QPSK



Date: 13 MAR 2016 09:10:05

Highest Channel / 16QAM

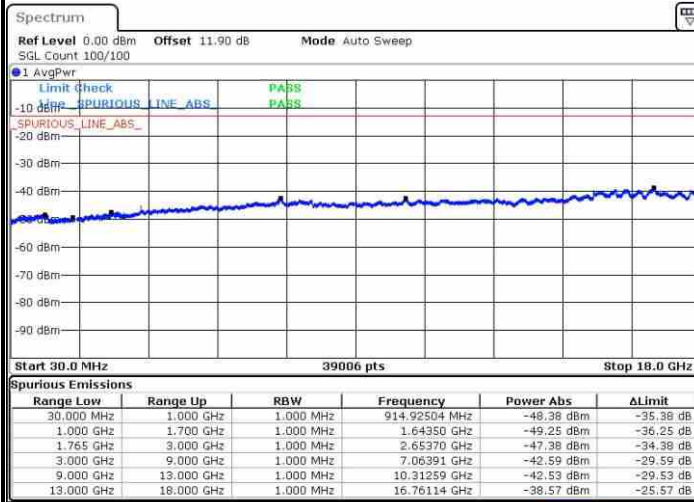


Date: 13 MAR 2016 09:11:00



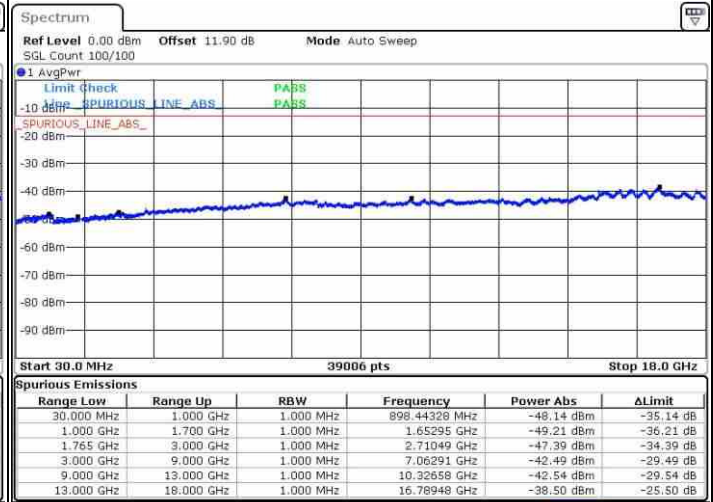
LTE Band 4 / 5MHz

Lowest Channel / QPSK



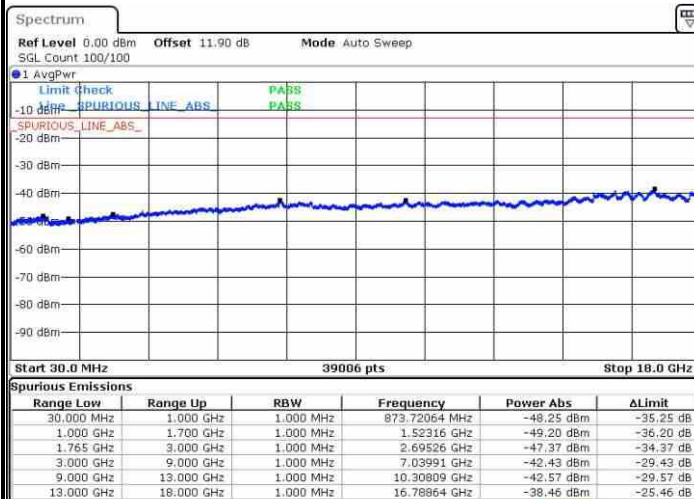
Date: 13 MAR 2016 09:17:13

Lowest Channel / 16QAM



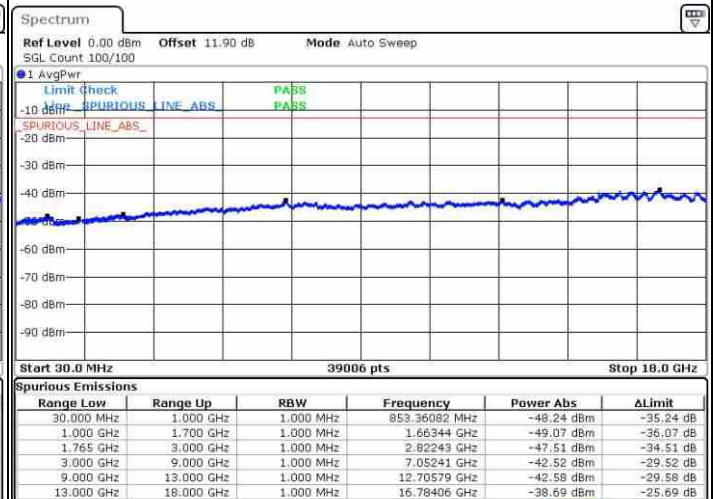
Date: 13 MAR 2016 09:18:08

Middle Channel / QPSK



Date: 13 MAR 2016 09:19:45

Middle Channel / 16QAM

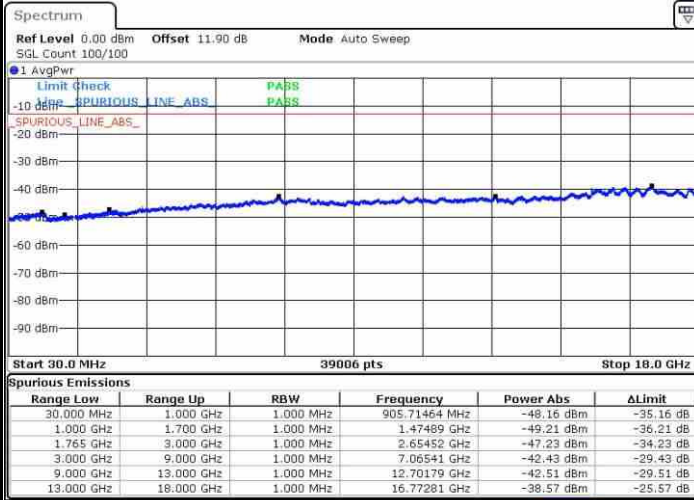


Date: 13 MAR 2016 09:20:40



LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 13 MAR 2016 09:26:53

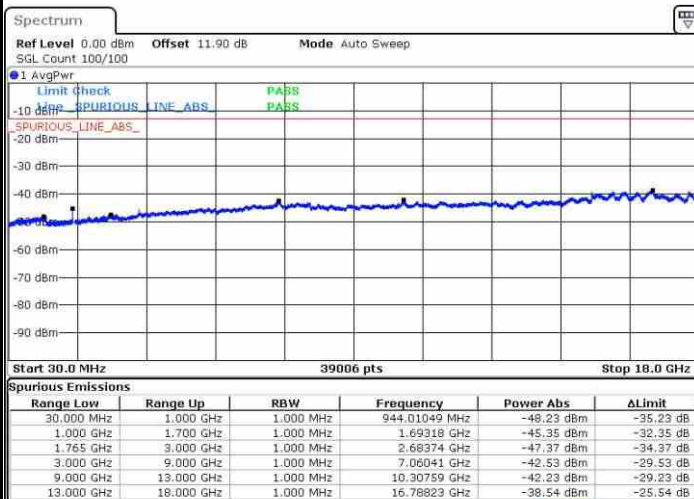
Highest Channel / 16QAM



Date: 13 MAR 2016 09:27:48

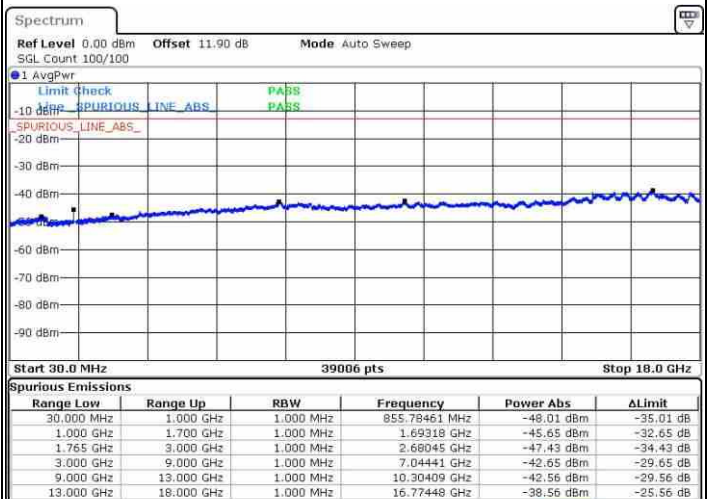
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 13 MAR 2016 09:34:02

Lowest Channel / 16QAM

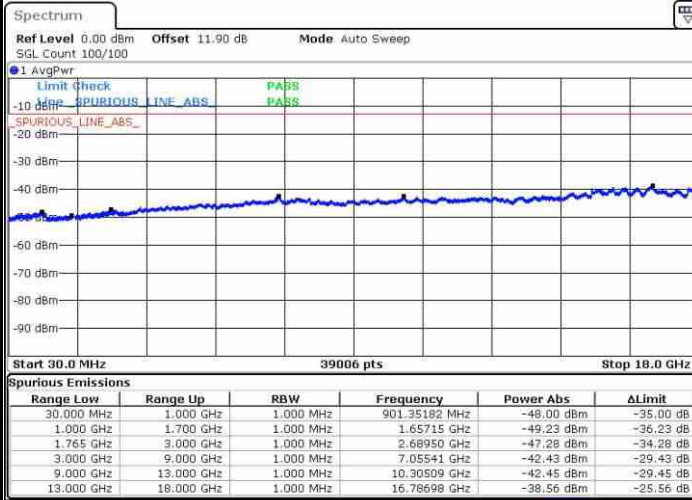


Date: 13 MAR 2016 09:34:57



LTE Band 4 / 10MHz

Middle Channel / QPSK



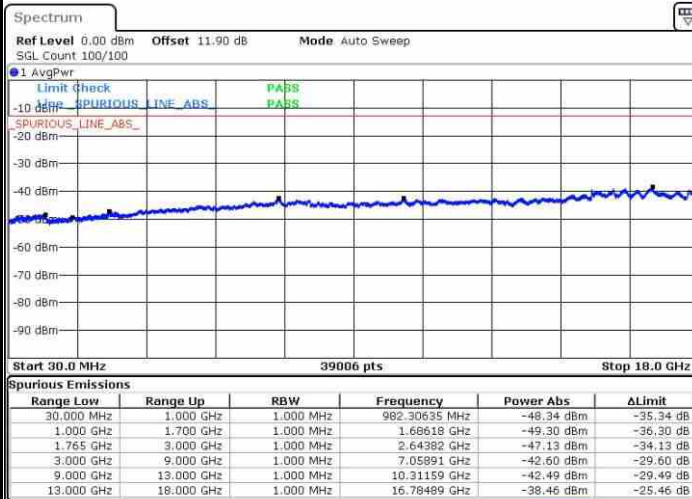
Date: 13 MAR 2016 09:36:34

Middle Channel / 16QAM



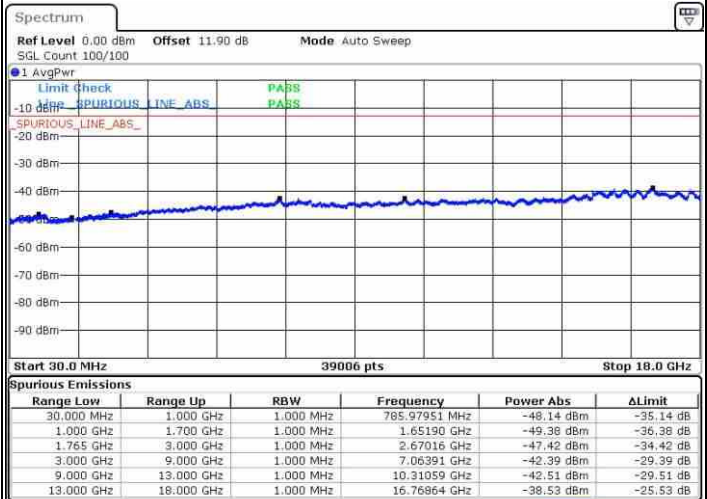
Date: 13 MAR 2016 09:37:28

Highest Channel / QPSK



Date: 13 MAR 2016 09:43:42

Highest Channel / 16QAM

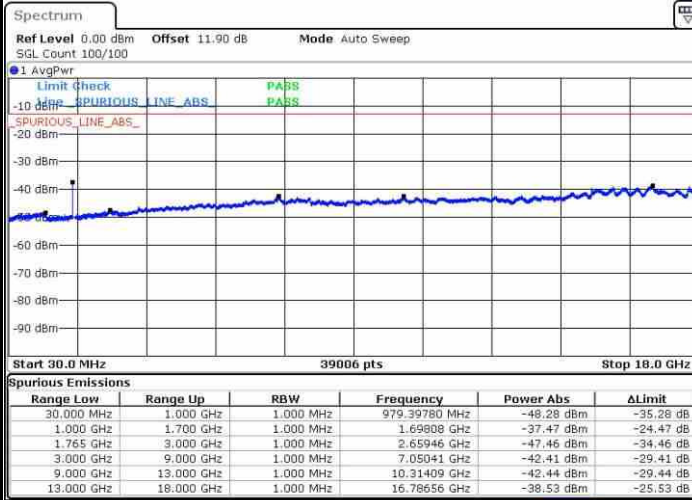


Date: 13 MAR 2016 09:44:37



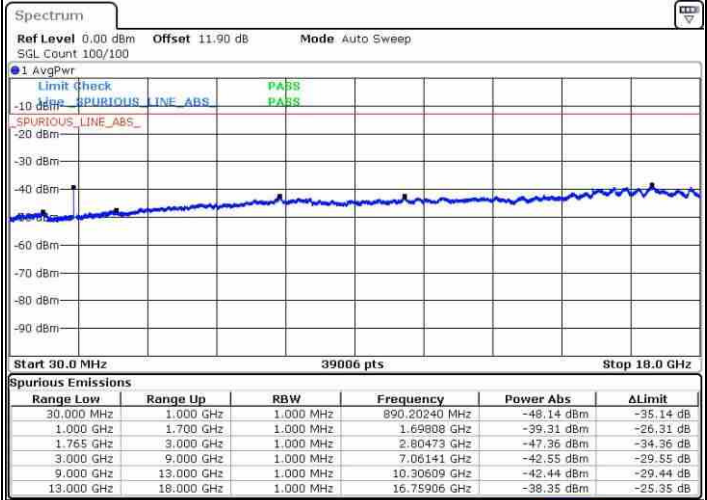
LTE Band 4 / 15MHz

Lowest Channel / QPSK



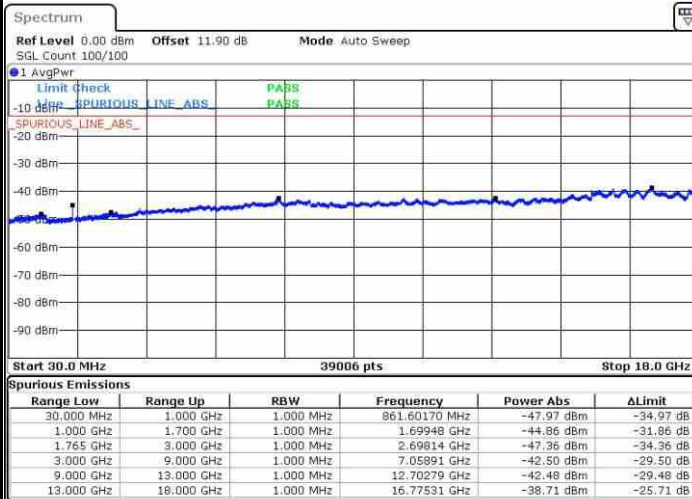
Date: 13 MAR 2016 09:50:51

Lowest Channel / 16QAM



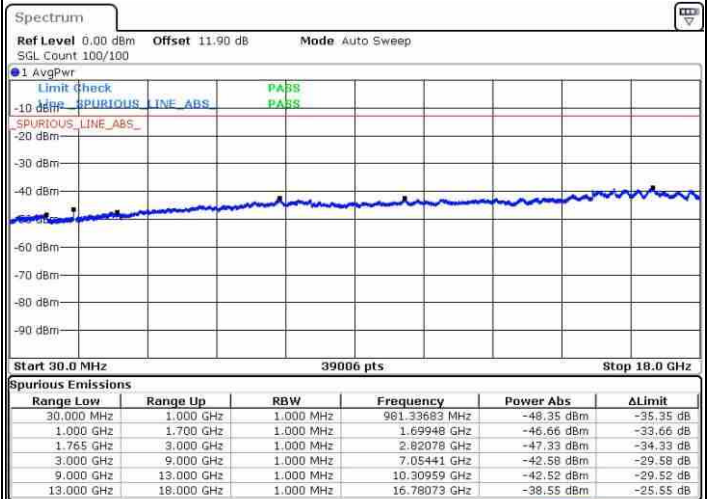
Date: 13 MAR 2016 09:51:46

Middle Channel / QPSK



Date: 13 MAR 2016 09:53:23

Middle Channel / 16QAM

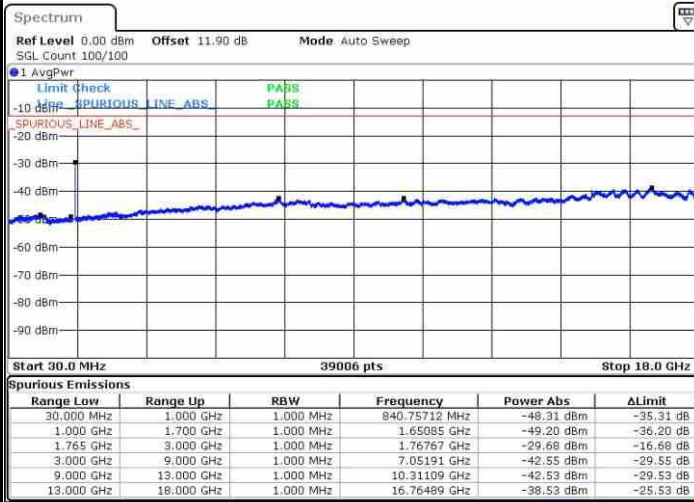


Date: 13 MAR 2016 09:54:17



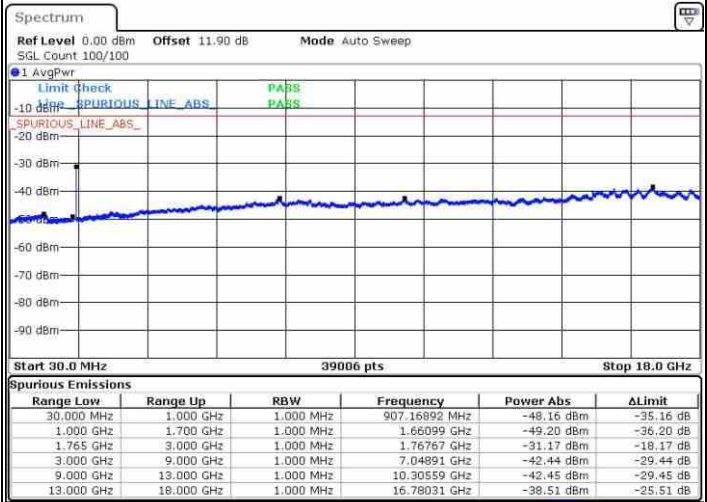
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 13 MAR 2016 10:00:31

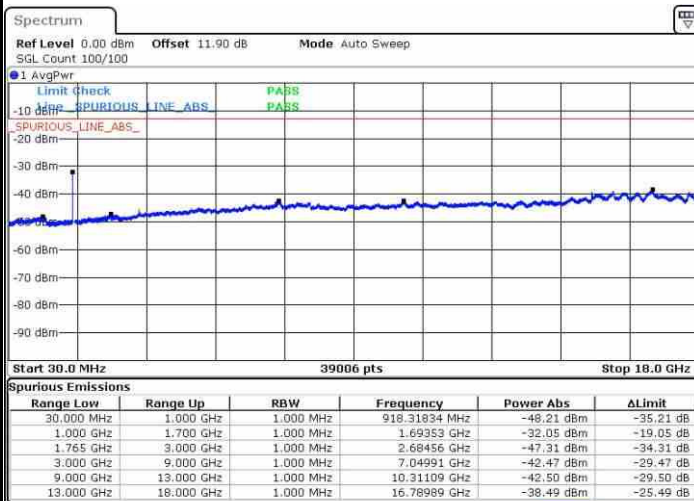
Highest Channel / 16QAM



Date: 13 MAR 2016 10:01:26

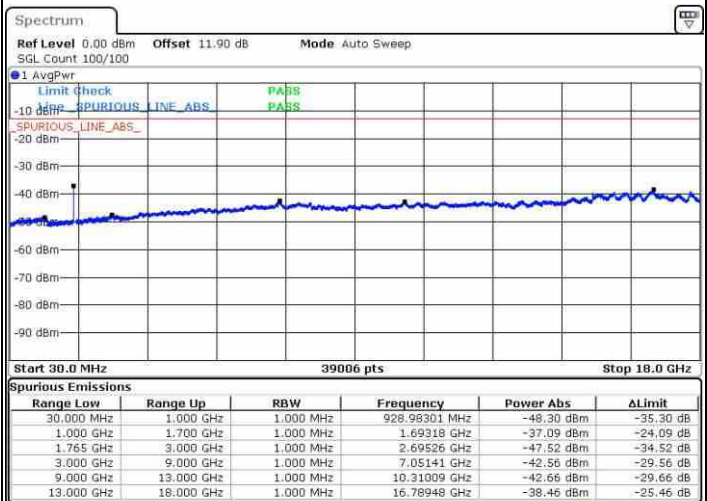
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 13 MAR 2016 10:07:40

Lowest Channel / 16QAM

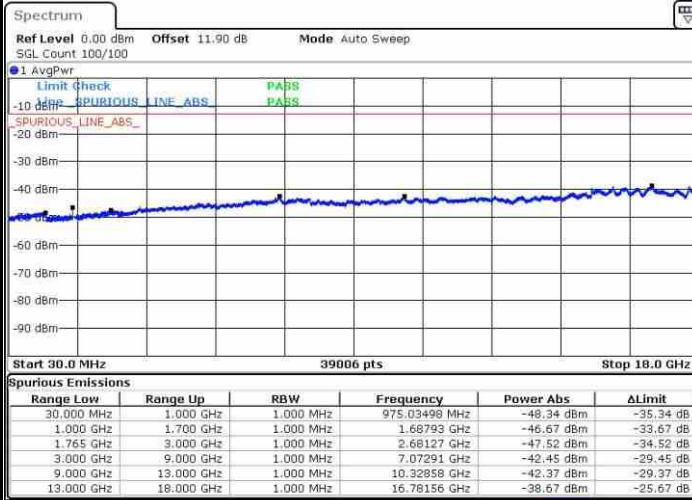


Date: 13 MAR 2016 10:08:35



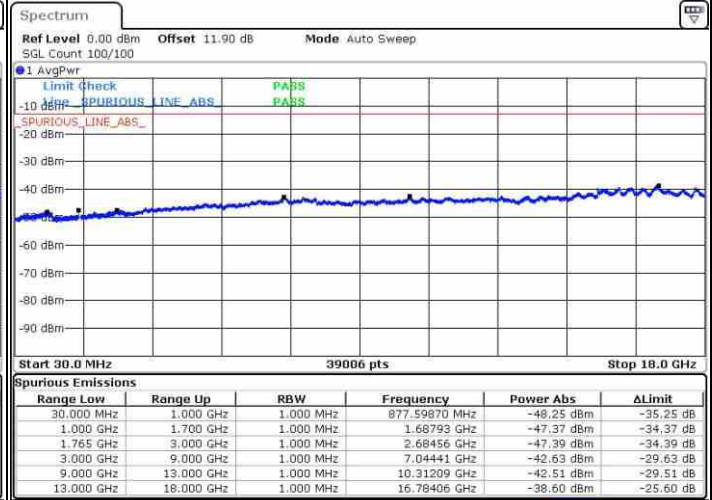
LTE Band 4 / 20MHz

Middle Channel / QPSK



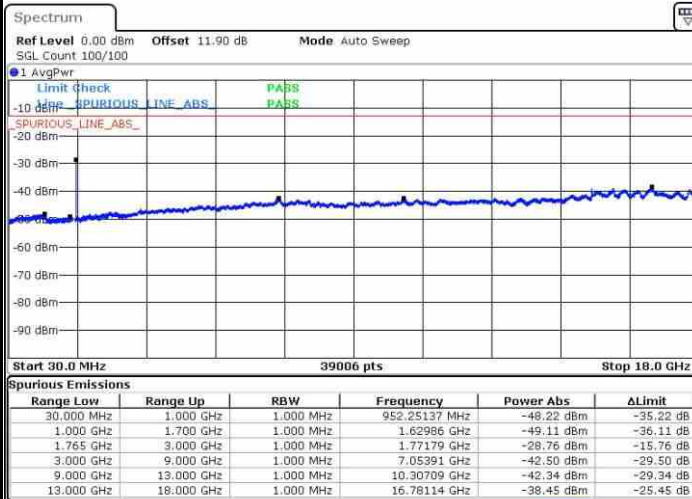
Date: 13 MAR 2016 10:10:12

Middle Channel / 16QAM



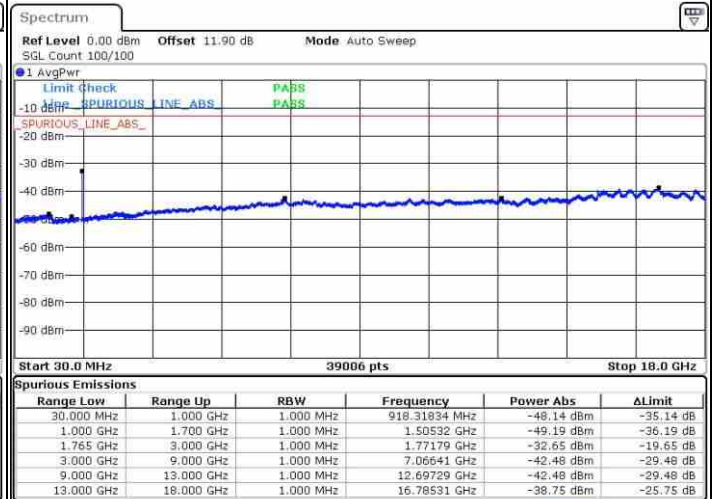
Date: 13 MAR 2016 10:11:06

Highest Channel / QPSK



Date: 13 MAR 2016 10:17:20

Highest Channel / 16QAM



Date: 13 MAR 2016 10:18:15

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	0.0004	PASS
40	Normal Voltage	0.0070	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0057	
0	Normal Voltage	0.0070	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0065	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0065	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.52	4.72	5.48	PASS
Middle CH	3.97	4.75	5.01	5.59	
Highest CH	3.68	4.58	4.87	5.42	

LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB


Date: 12.MAR.2016 20:35:58

Lowest Channel / Full RB


Date: 12.MAR.2016 20:36:12

Middle Channel / 1RB


Date: 12.MAR.2016 20:44:09

Middle Channel / Full RB


Date: 12.MAR.2016 20:44:18

Highest Channel / 1RB


Date: 12.MAR.2016 20:44:29

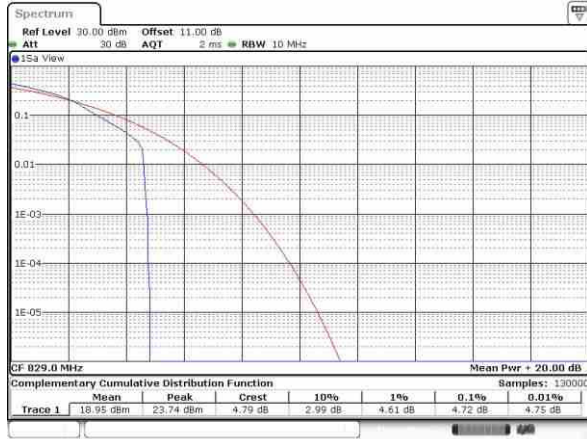
Highest Channel / Full RB


Date: 12.MAR.2016 20:44:40



LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 12.MAR.2016 20:18:18

Lowest Channel / Full RB



Date: 12.MAR.2016 20:20:06

Middle Channel / 1RB



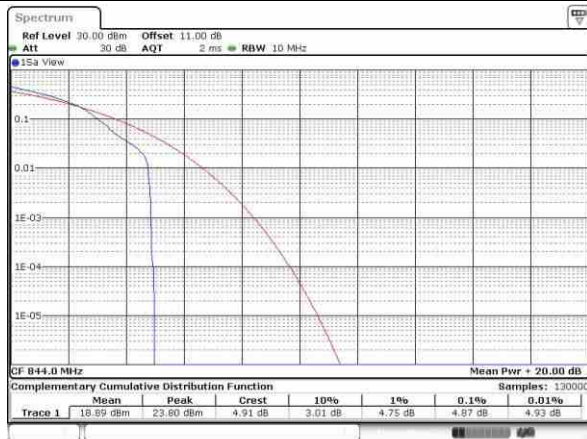
Date: 12.MAR.2016 20:20:16

Middle Channel / Full RB



Date: 12.MAR.2016 20:25:09

Highest Channel / 1RB



Date: 12.MAR.2016 20:35:38

Highest Channel / Full RB



Date: 12.MAR.2016 20:35:48

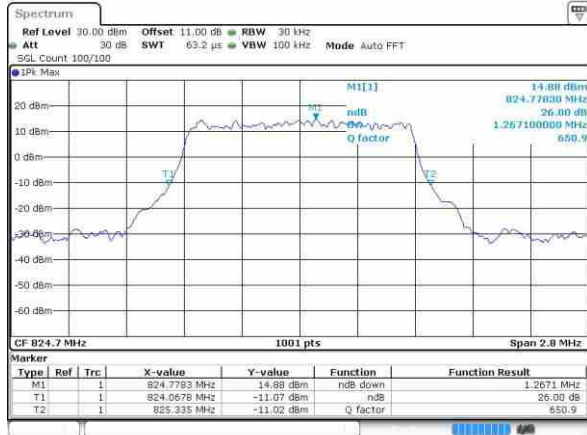
**26dB Bandwidth**

Mode	LTE Band 5 : 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	1.27	1.25	2.98	3.02	4.97	4.89	9.65	9.71	-	-	-	-
Middle CH	1.26	1.28	3.05	3.03	4.89	4.88	9.77	9.73	-	-	-	-
Highest CH	1.24	1.27	3.01	3.02	4.97	4.86	9.89	9.79	-	-	-	-



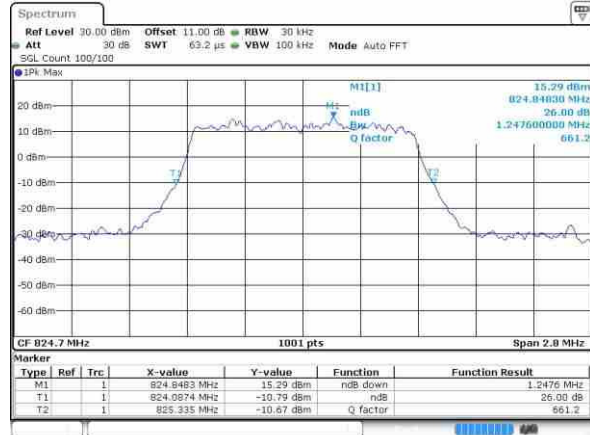
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



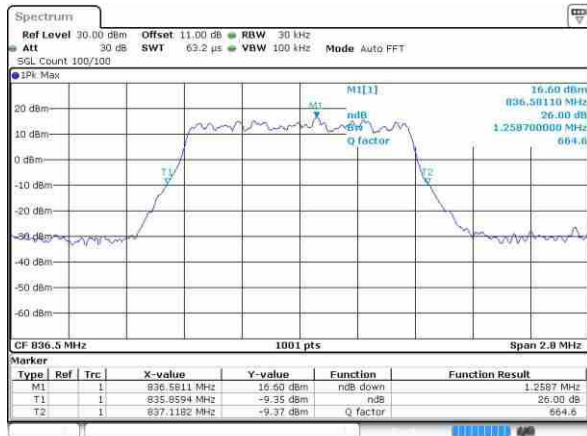
Date: 12.MAR.2016 19:44:13

Lowest Channel / 1.4MHz / 16QAM



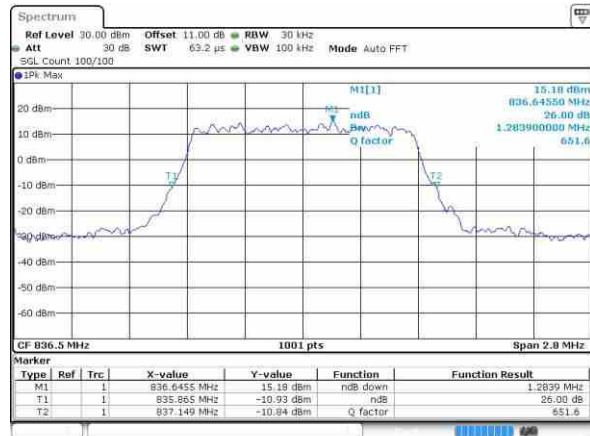
Date: 12.MAR.2016 19:44:02

Middle Channel / 1.4MHz / QPSK



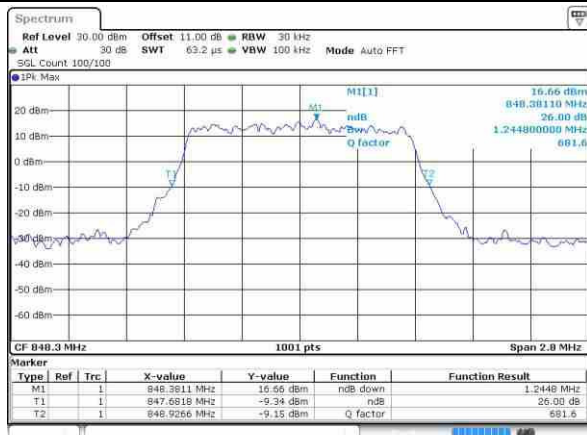
Date: 12.MAR.2016 19:54:42

Middle Channel / 1.4MHz / 16QAM



Date: 12.MAR.2016 19:54:52

Highest Channel / 1.4MHz / QPSK



Date: 12.MAR.2016 19:57:12

Highest Channel / 1.4MHz / 16QAM

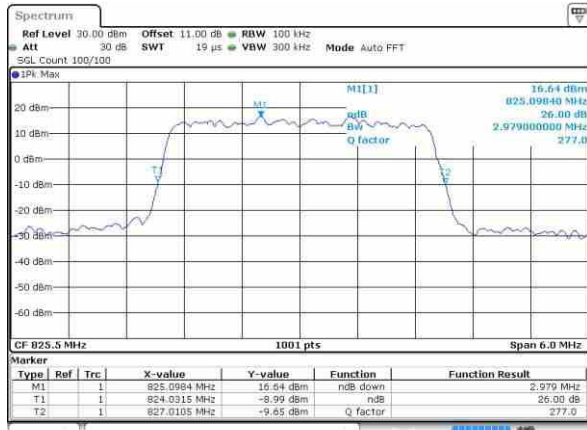


Date: 12.MAR.2016 19:57:22



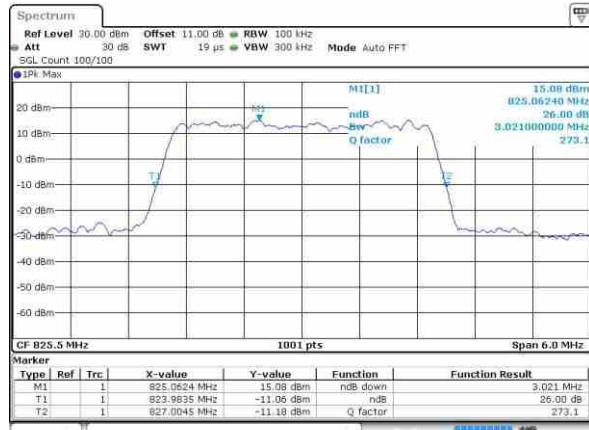
LTE Band 5

Lowest Channel / 3MHz / QPSK



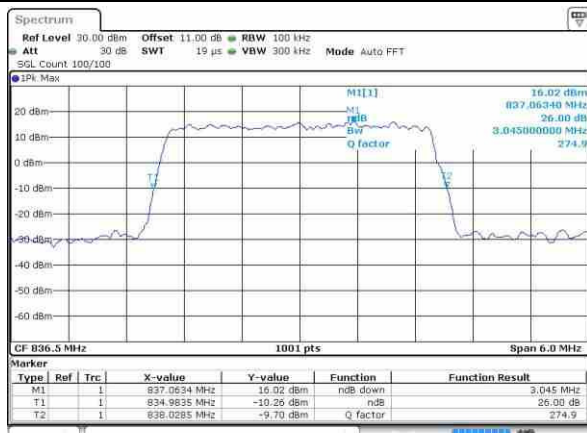
Date: 12.MAR.2016 18:31:07

Lowest Channel / 3MHz / 16QAM



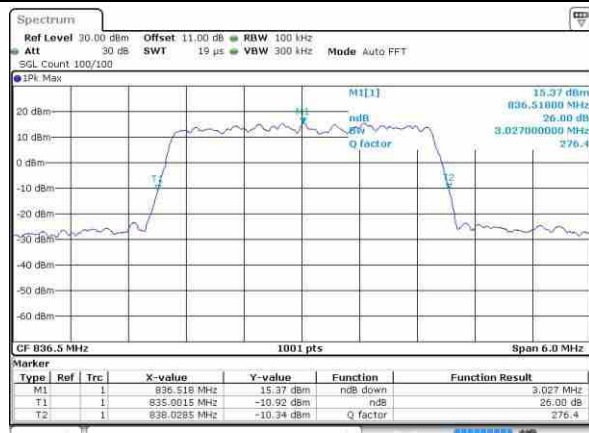
Date: 12.MAR.2016 18:31:18

Middle Channel / 3MHz / QPSK



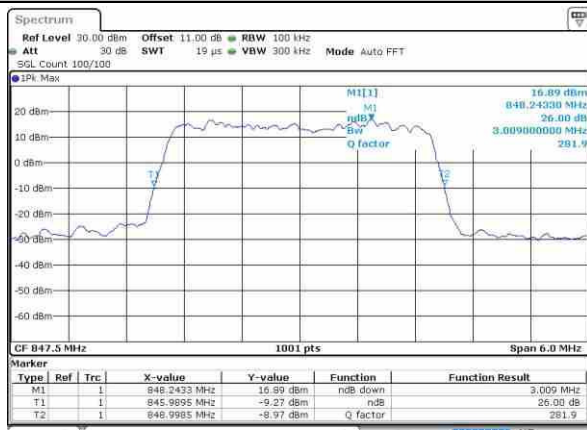
Date: 12.MAR.2016 18:41:48

Middle Channel / 3MHz / 16QAM



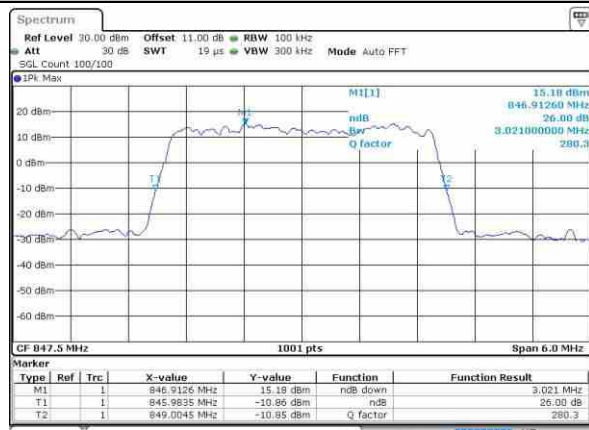
Date: 12.MAR.2016 18:41:58

Highest Channel / 3MHz / QPSK



Date: 12.MAR.2016 18:44:19

Highest Channel / 3MHz / 16QAM

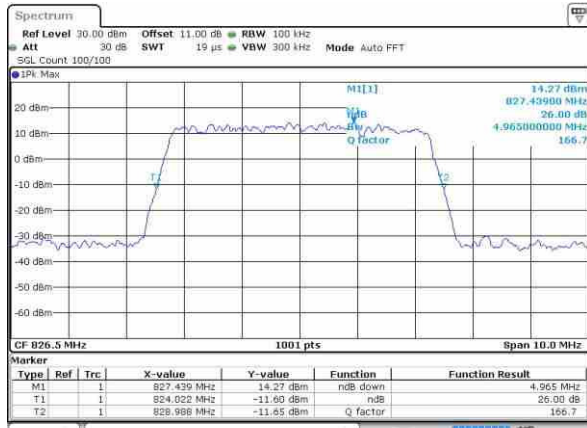


Date: 12.MAR.2016 18:44:29

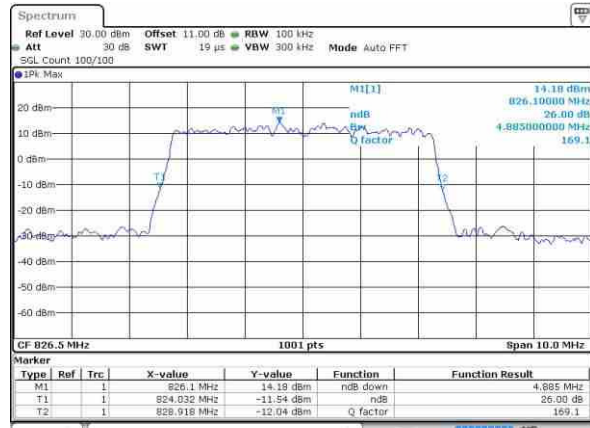


LTE Band 5

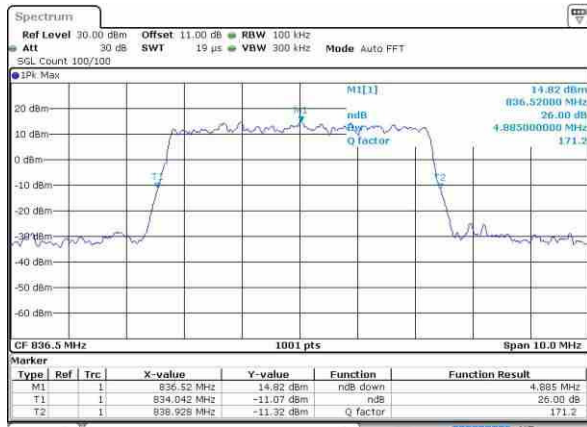
Lowest Channel / 5MHz / QPSK



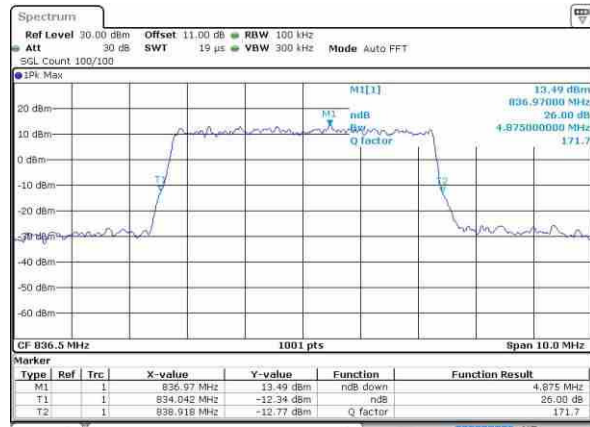
Lowest Channel / 5MHz / 16QAM



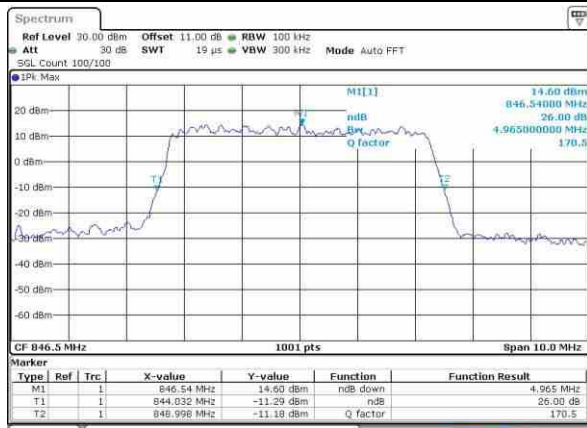
Middle Channel / 5MHz / QPSK



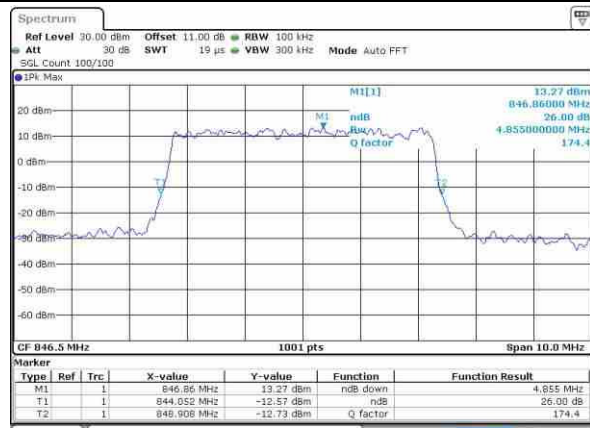
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



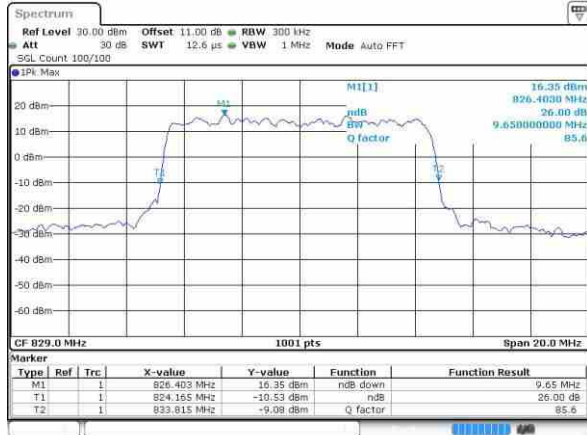
Highest Channel / 5MHz / 16QAM



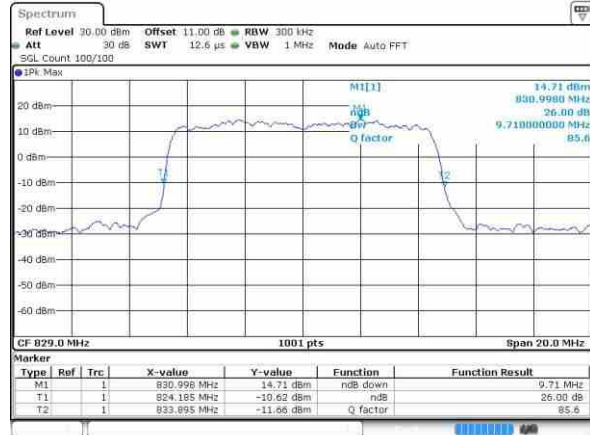


LTE Band 5

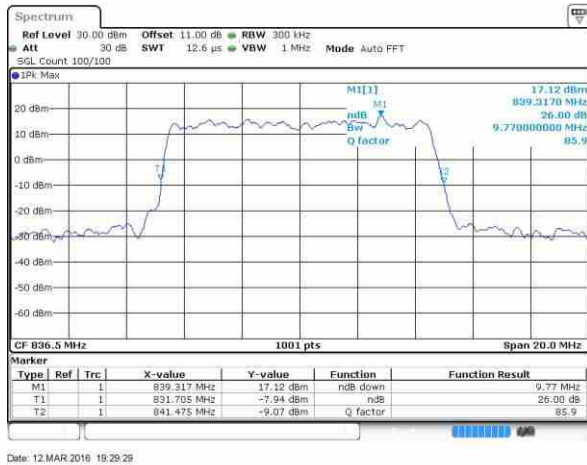
Lowest Channel / 10MHz / QPSK



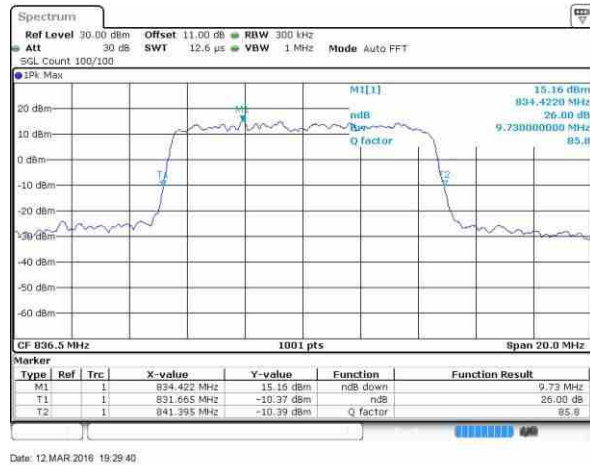
Lowest Channel / 10MHz / 16QAM



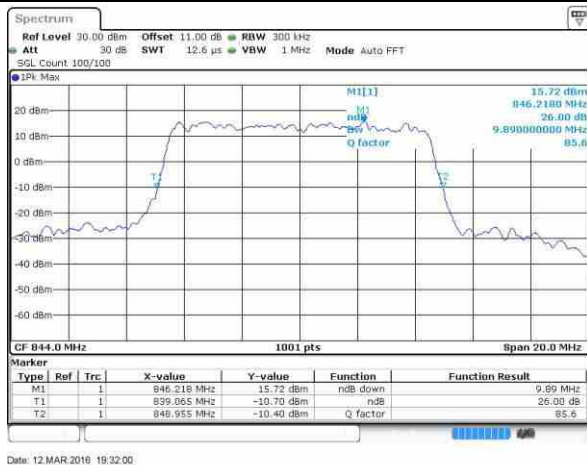
Middle Channel / 10MHz / QPSK



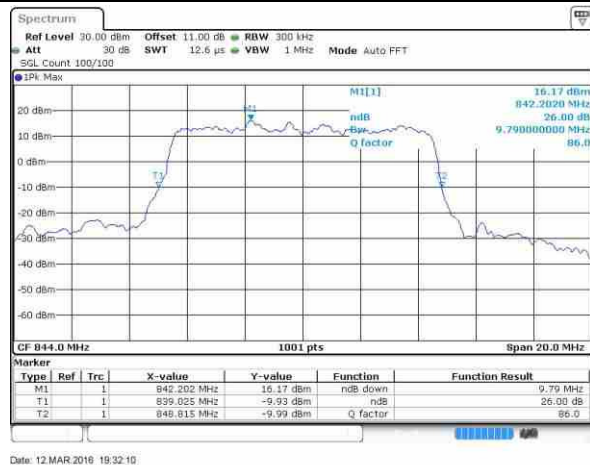
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



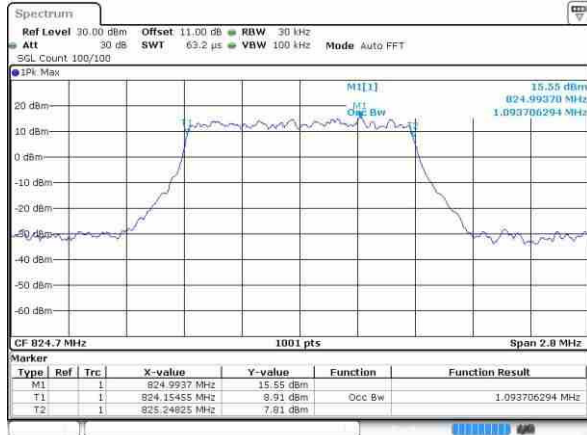
**Occupied Bandwidth**

Mode	LTE Band 5 : 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	1.09	1.1	2.73	2.7	4.5	4.46	9.01	9.01	-	-	-	-
Middle CH	1.09	1.09	2.72	2.71	4.5	4.49	8.99	8.93	-	-	-	-
Highest CH	1.09	1.08	2.73	2.7	4.48	4.49	8.99	9.05	-	-	-	-

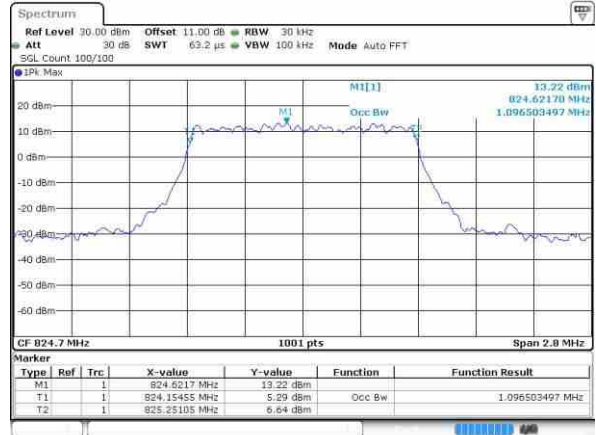


LTE Band 5

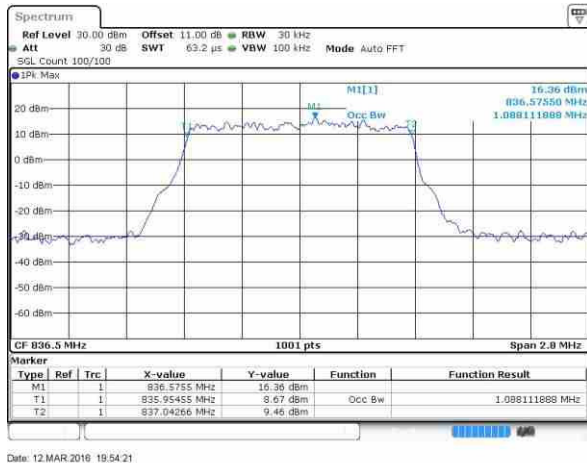
Lowest Channel / 1.4MHz / QPSK



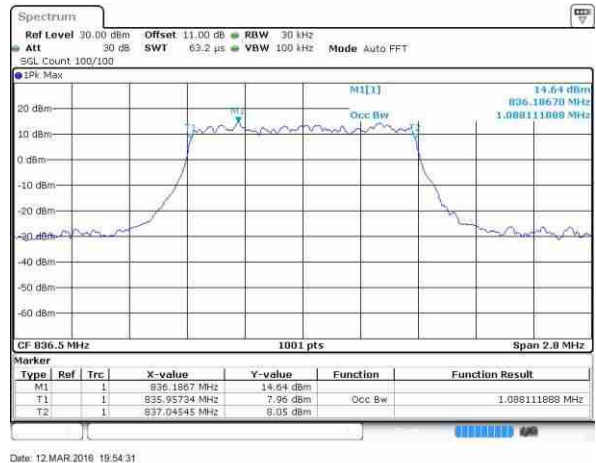
Lowest Channel / 1.4MHz / 16QAM



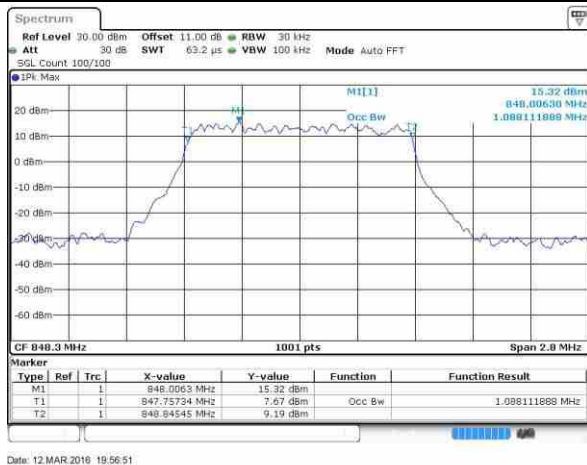
Middle Channel / 1.4MHz / QPSK



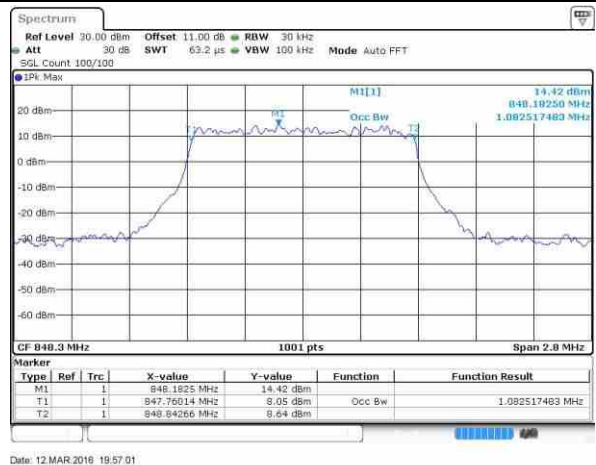
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



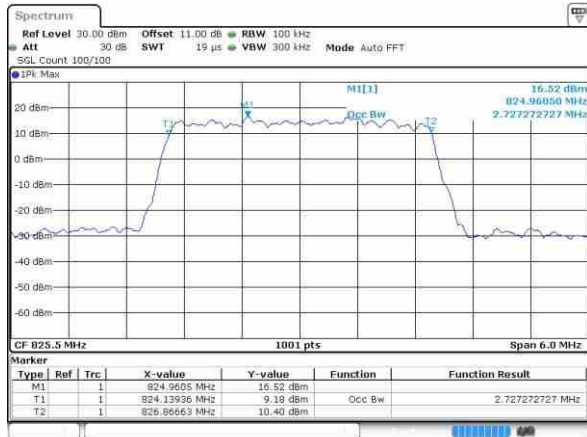
Highest Channel / 1.4MHz / 16QAM





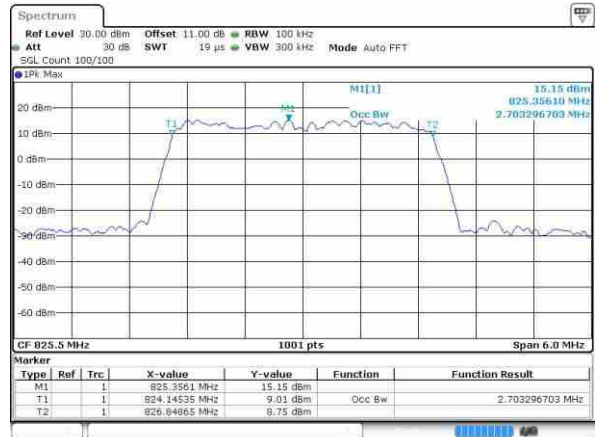
LTE Band 5

Lowest Channel / 3MHz / QPSK



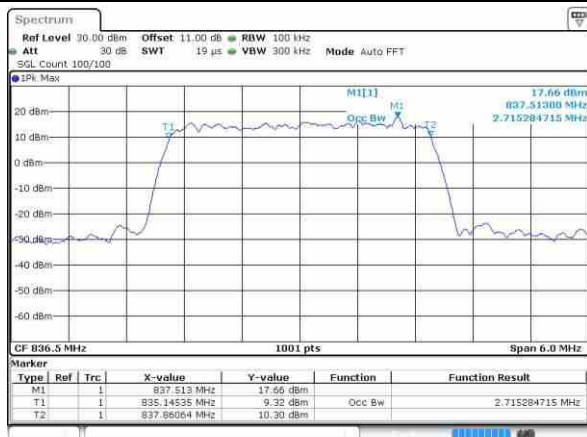
Date: 12.MAR.2016 18:30:46

Lowest Channel / 3MHz / 16QAM



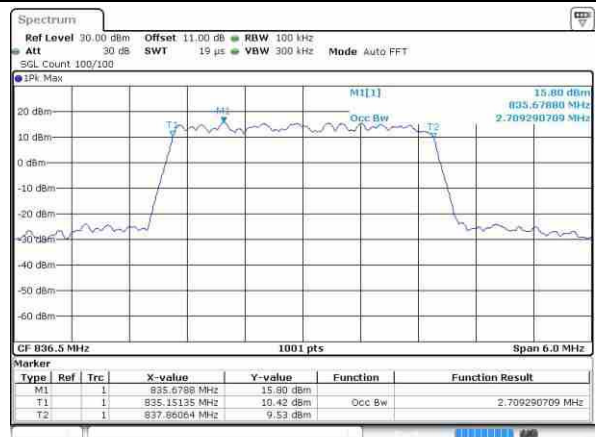
Date: 12.MAR.2016 18:30:57

Middle Channel / 3MHz / QPSK



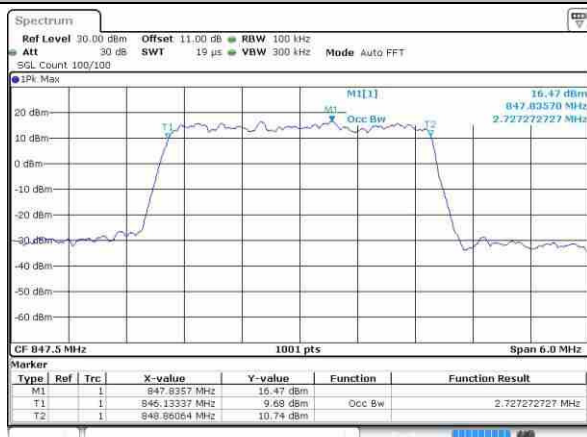
Date: 12.MAR.2016 18:41:27

Middle Channel / 3MHz / 16QAM



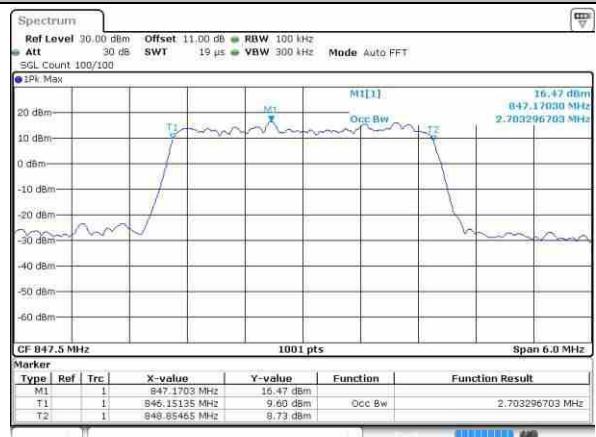
Date: 12.MAR.2016 18:41:37

Highest Channel / 3MHz / QPSK



Date: 12.MAR.2016 18:43:58

Highest Channel / 3MHz / 16QAM

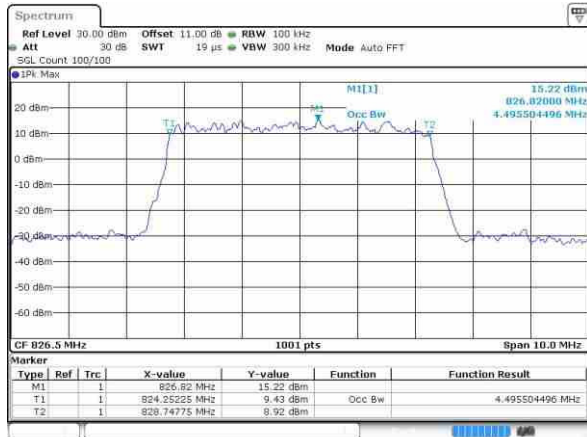


Date: 12.MAR.2016 18:44:08



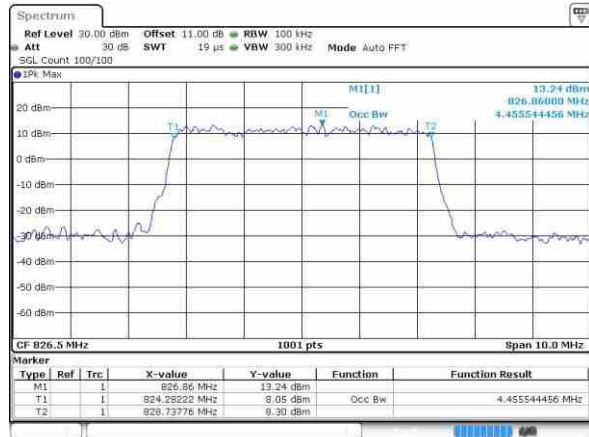
LTE Band 5

Lowest Channel / 5MHz / QPSK



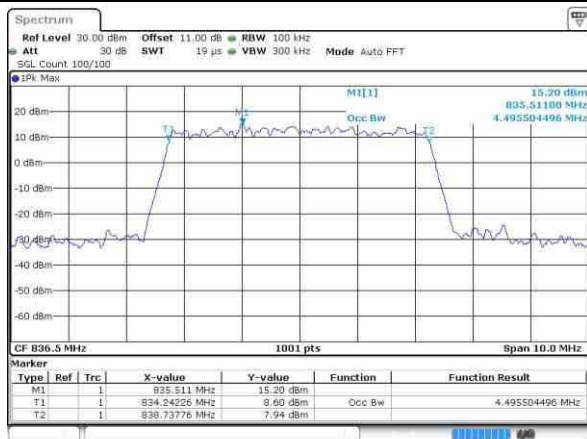
Date: 12.MAR.2016 18:54:38

Lowest Channel / 5MHz / 16QAM



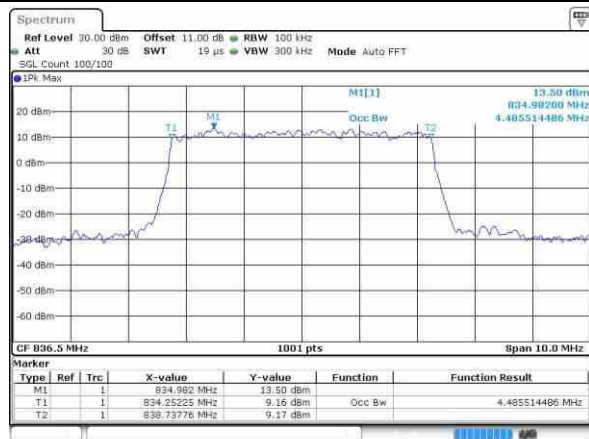
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Middle Channel / 5MHz / QPSK



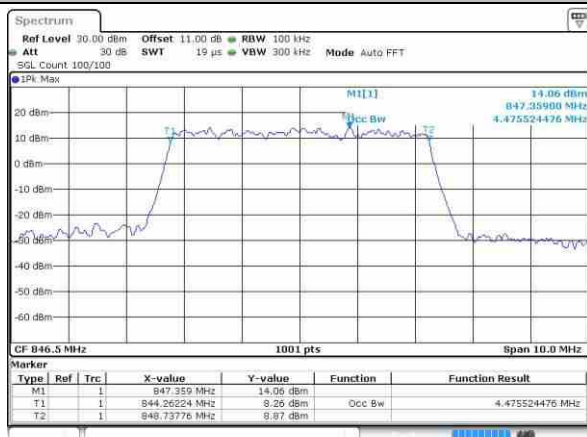
Date: 12.MAR.2016 19:05:19

Middle Channel / 5MHz / 16QAM



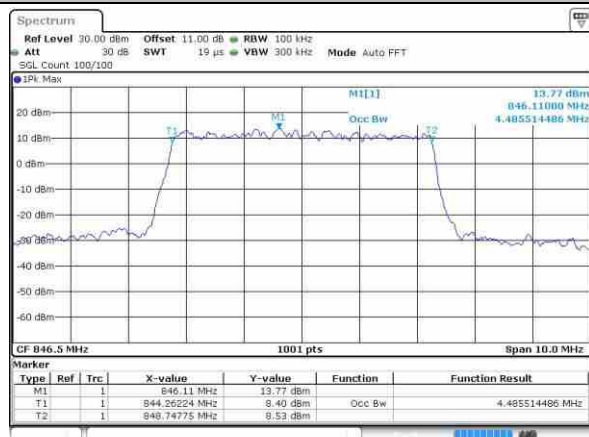
Date: 12.MAR.2016 19:05:29

Highest Channel / 5MHz / QPSK



Date: 12.MAR.2016 19:07:50

Highest Channel / 5MHz / 16QAM



Date: 12.MAR.2016 19:08:00