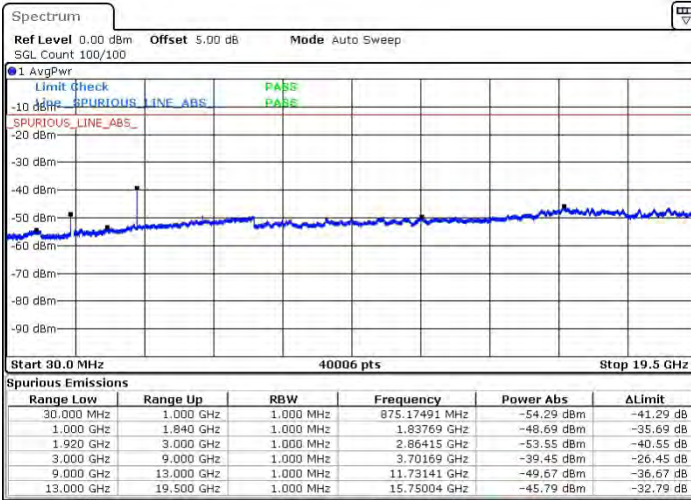




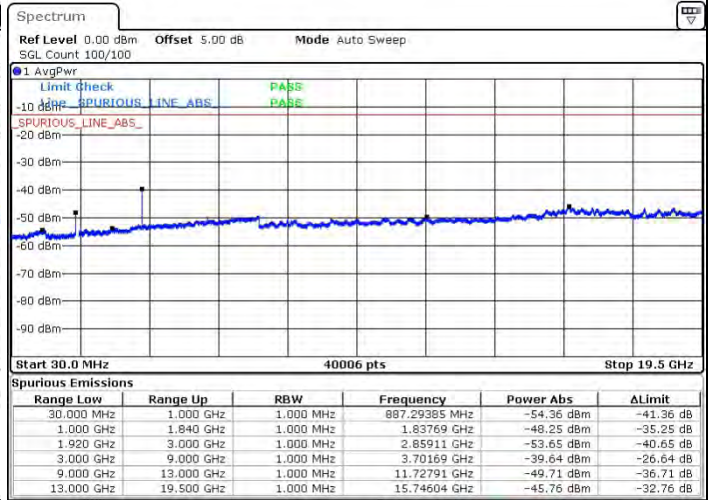
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



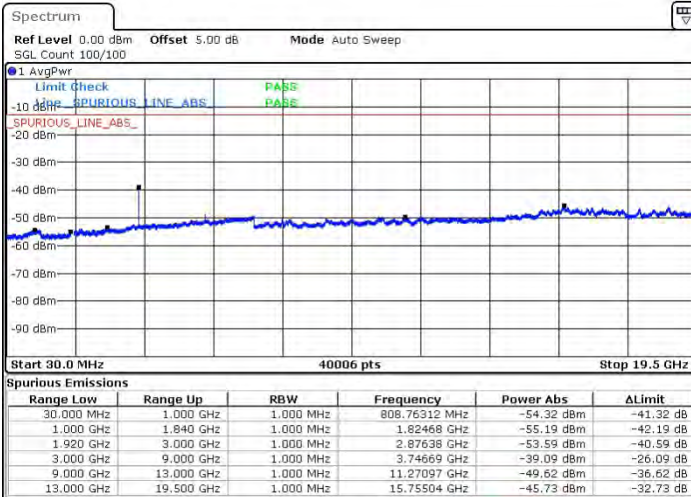
Date: 15 JAN 2015 19:37:19



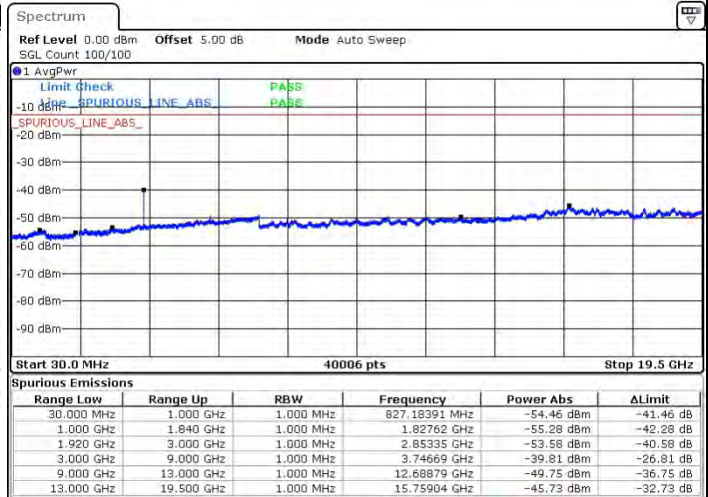
Date: 15 JAN 2015 19:38:37

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 15 JAN 2015 19:40:39



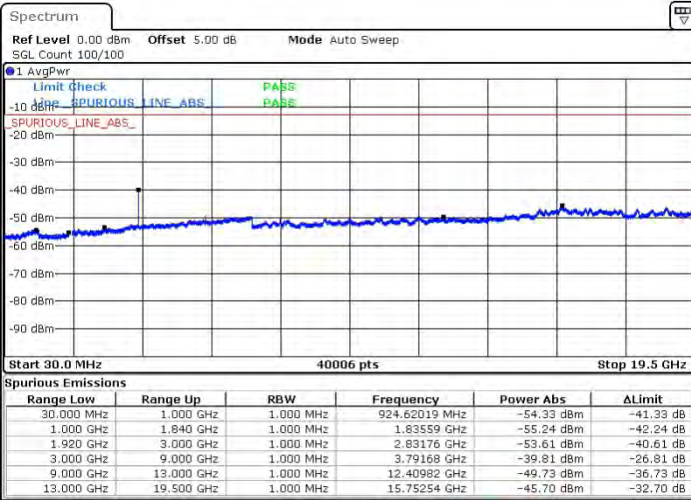
Date: 15 JAN 2015 19:41:58



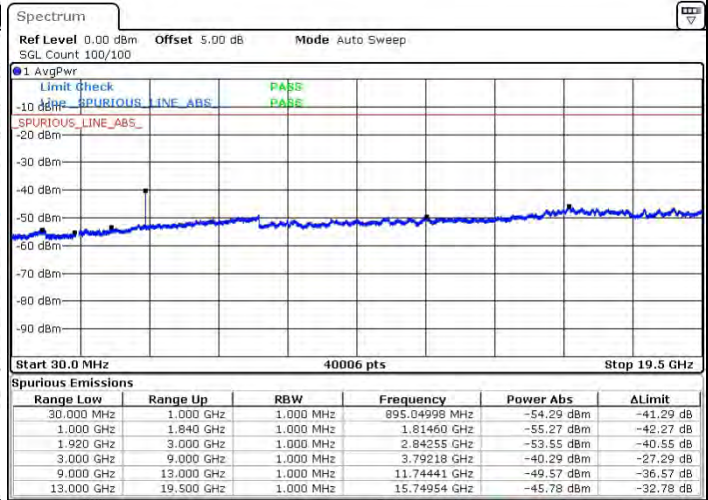
LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15 JAN 2015 19:44:00

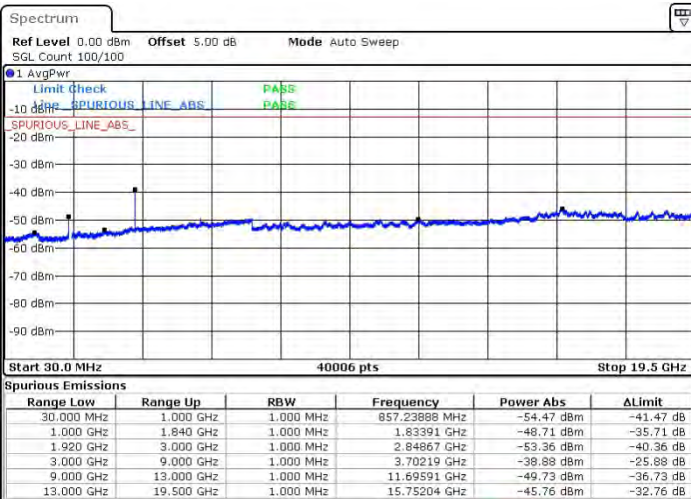


Date: 15 JAN 2015 19:45:18

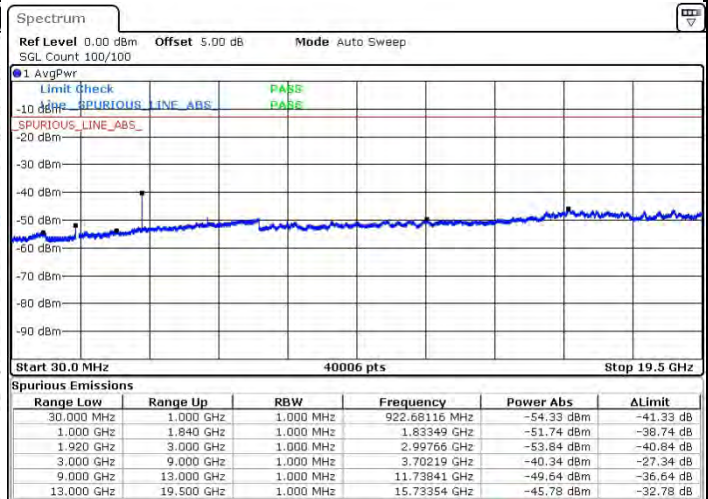
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 15 JAN 2015 19:47:20



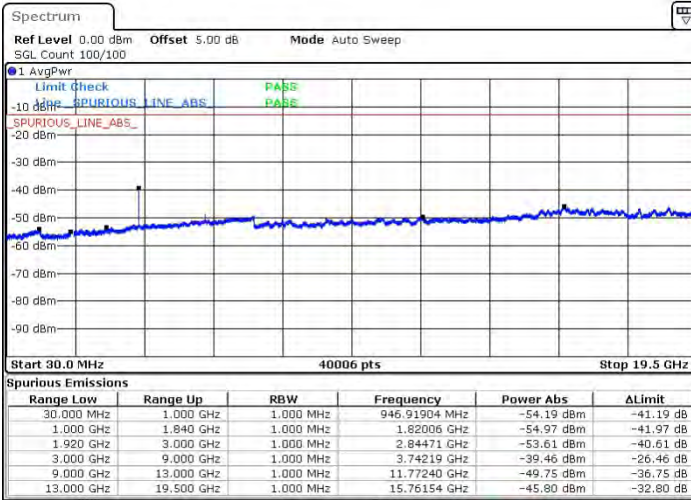
Date: 15 JAN 2015 19:48:39



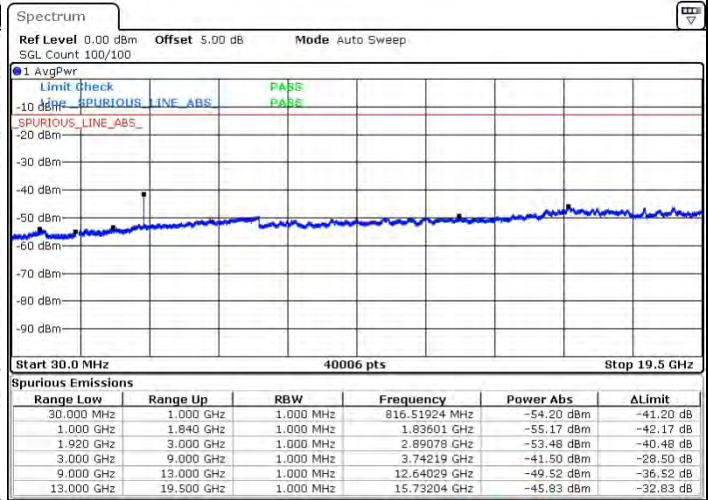
LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



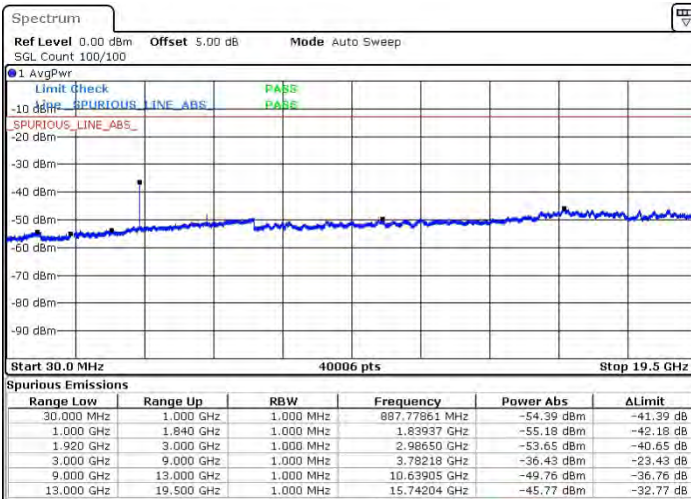
Date: 15 JAN 2015 19:50:40



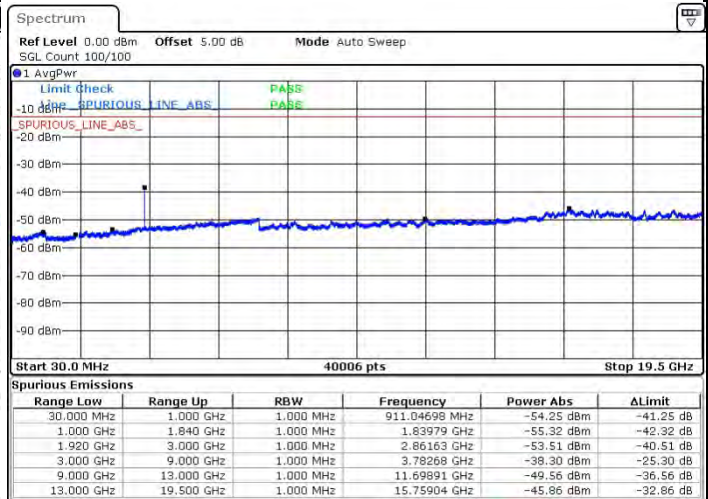
Date: 15 JAN 2015 19:51:59

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 15 JAN 2015 19:54:01



Date: 15 JAN 2015 19:55:19

**Frequency Stability**

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0007	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage = 3.8V ; Battery End Point (BEP) = 3.5 V ; 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 4

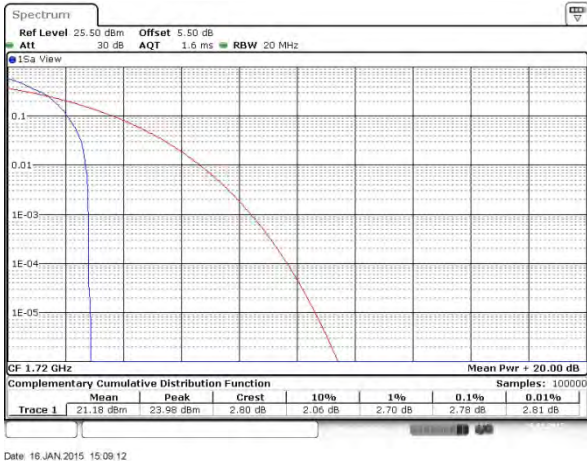
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	2.78	4.29	3.68	5.3	PASS
Middle CH	3.57	4.55	4.46	5.57	
Highest CH	3.77	4.43	4.78	5.51	

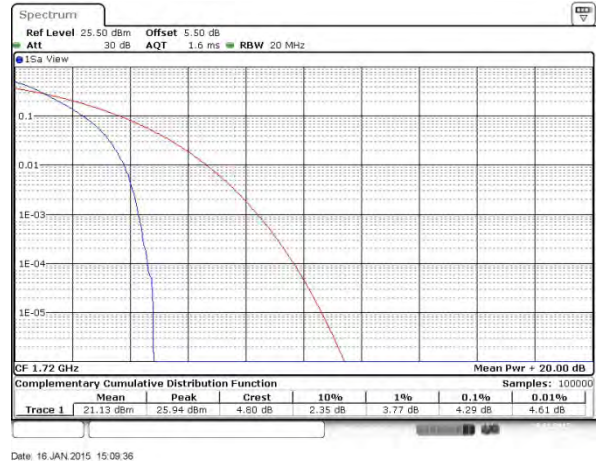


LTE Band 4 / 20MHz / QPSK

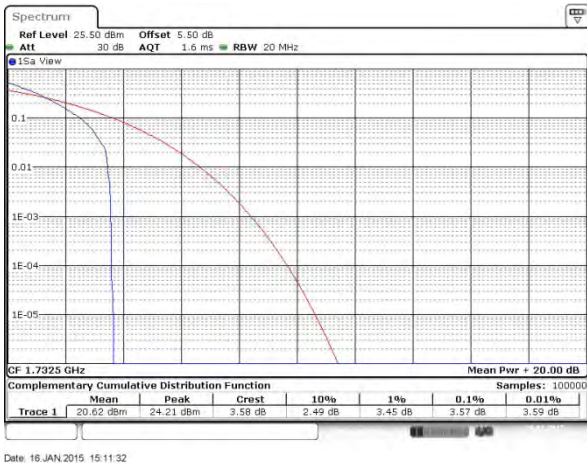
Lowest Channel / 1RB



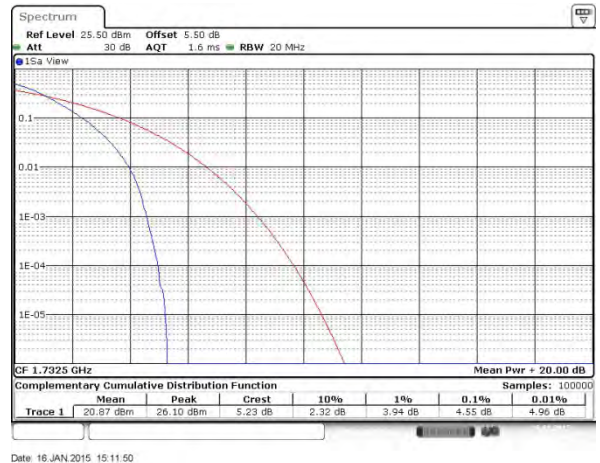
Lowest Channel / Full RB



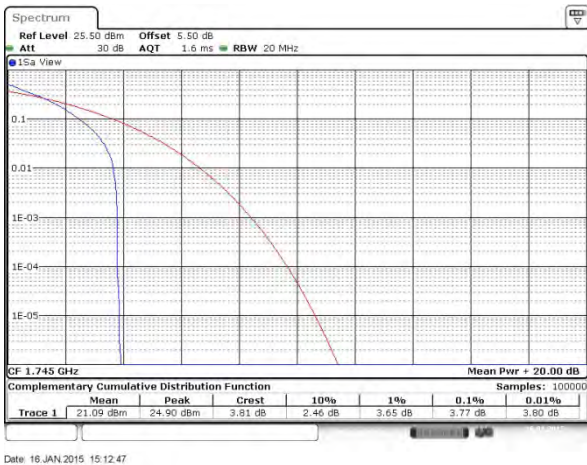
Middle Channel / 1RB



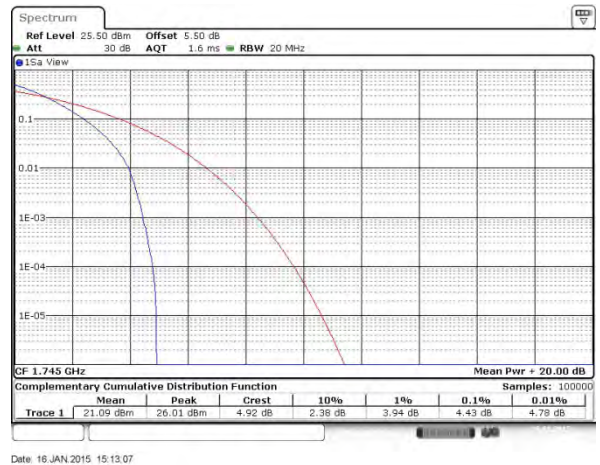
Middle Channel / Full RB



Highest Channel / 1RB



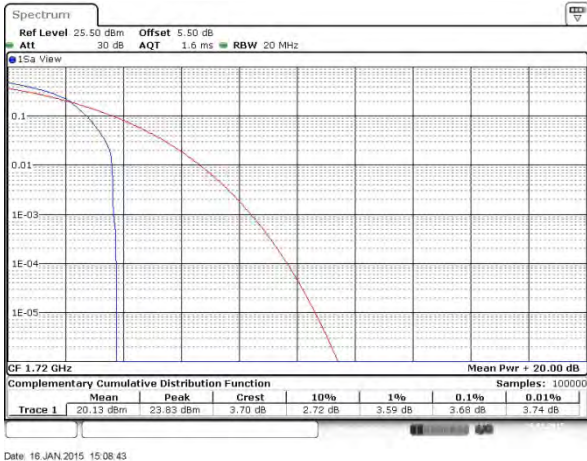
Highest Channel / Full RB



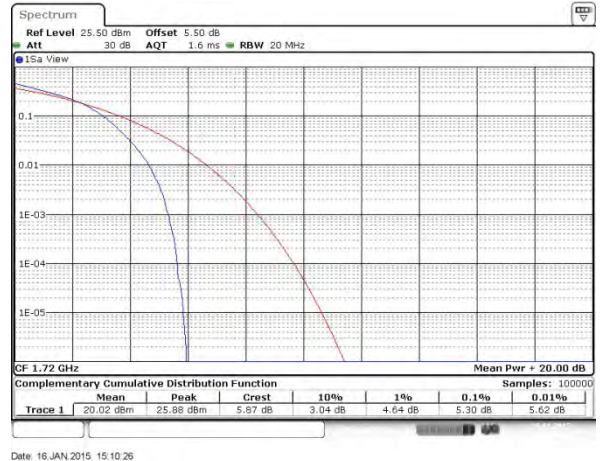


LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



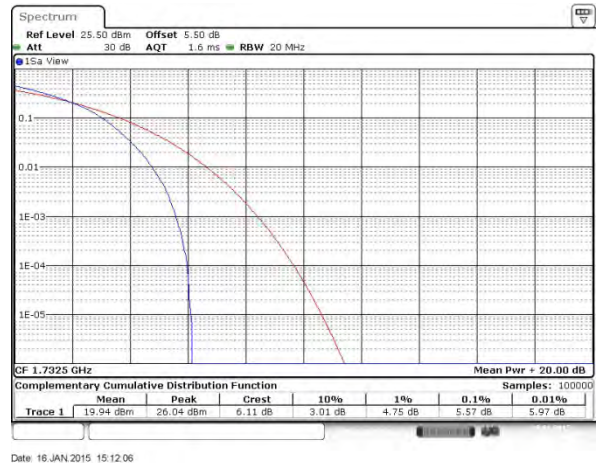
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



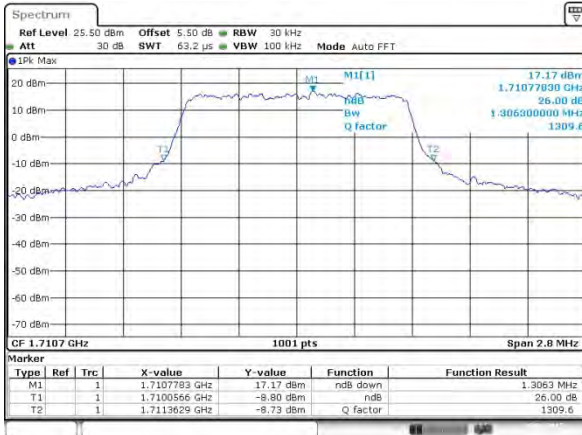
**26dB Bandwidth**

Mode	LTE Band 4 : 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	1.3063	1.3147	3.0629	3.0809	5.085	5.045	10.07	10.03	14.655	14.745	20.46	20.46
Middle CH	1.3035	1.3175	3.0569	3.0689	5.055	5.035	9.99	9.91	14.805	14.805	20.34	20.3
Highest CH	1.3147	1.3259	3.0509	3.0689	5.065	5.065	10.01	10.07	14.715	14.625	20.38	20.3



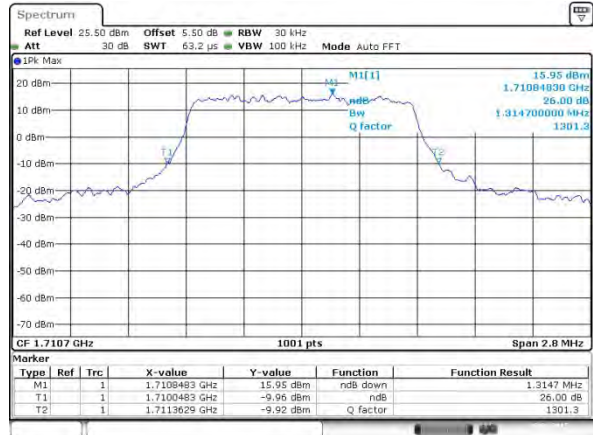
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



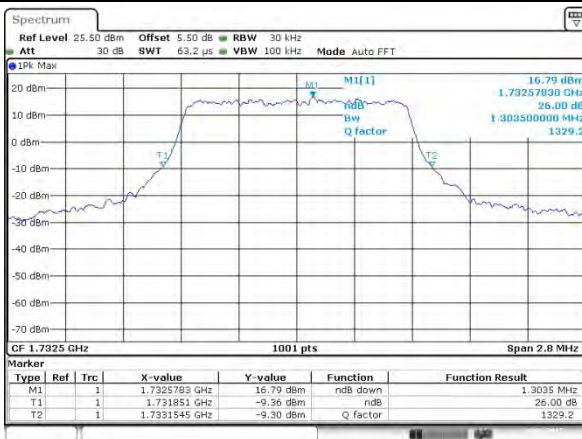
Date: 16 JAN 2015 09:41:07

Lowest Channel / 1.4MHz / 16QAM



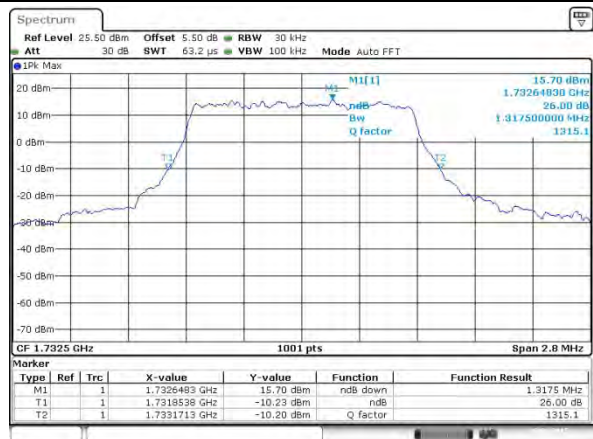
Date: 16 JAN 2015 09:41:19

Middle Channel / 1.4MHz / QPSK



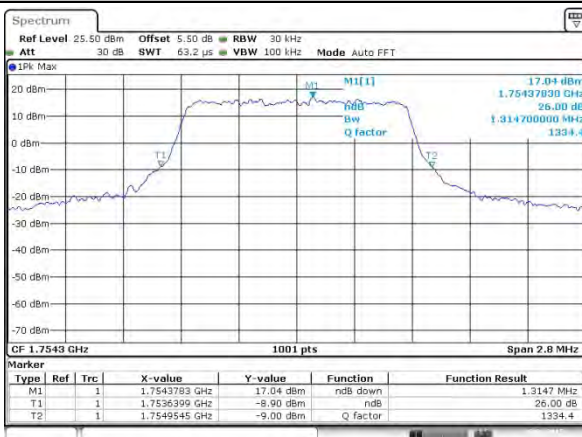
Date: 16 JAN 2015 09:44:27

Middle Channel / 1.4MHz / 16QAM



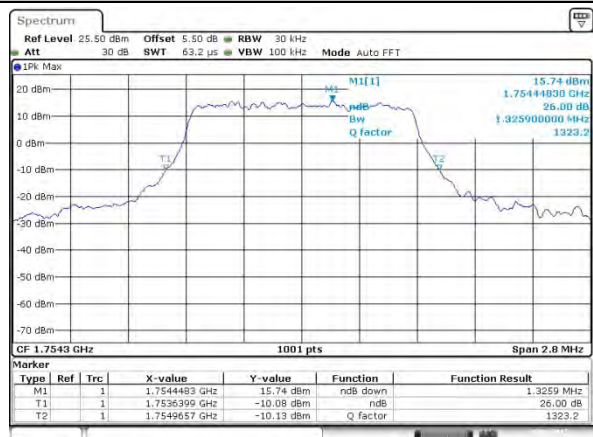
Date: 16 JAN 2015 09:44:39

Highest Channel / 1.4MHz / QPSK



Date: 16 JAN 2015 09:47:47

Highest Channel / 1.4MHz / 16QAM

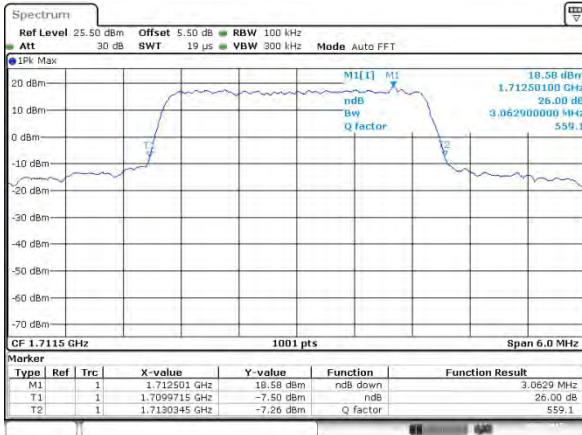


Date: 16 JAN 2015 09:47:59

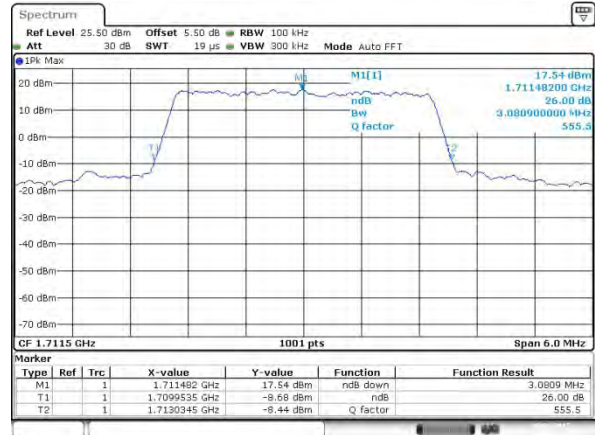


LTE Band 4

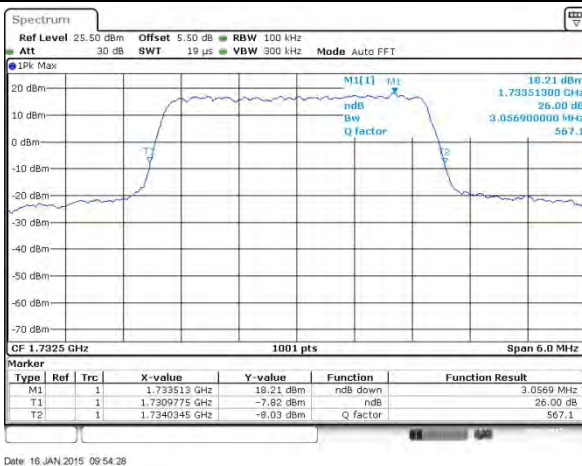
Lowest Channel / 3MHz / QPSK



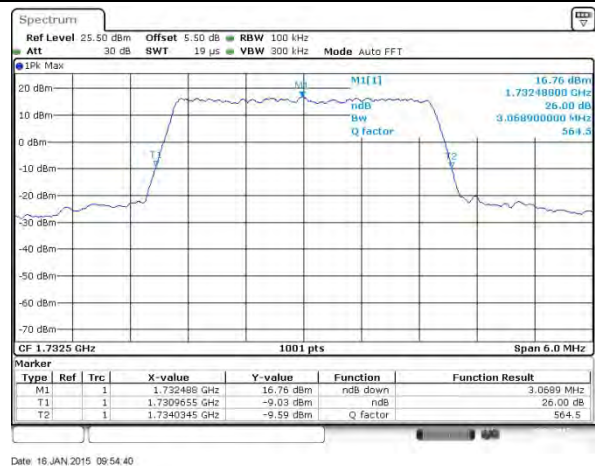
Lowest Channel / 3MHz / 16QAM



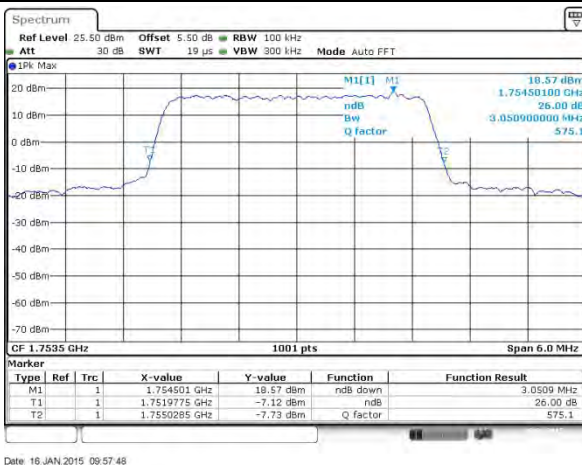
Middle Channel / 3MHz / QPSK



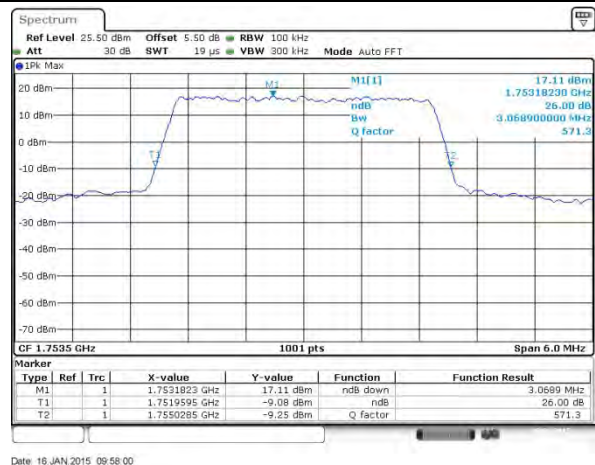
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



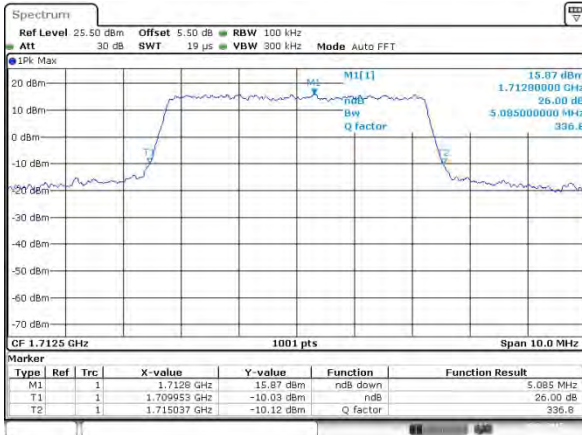
Highest Channel / 3MHz / 16QAM



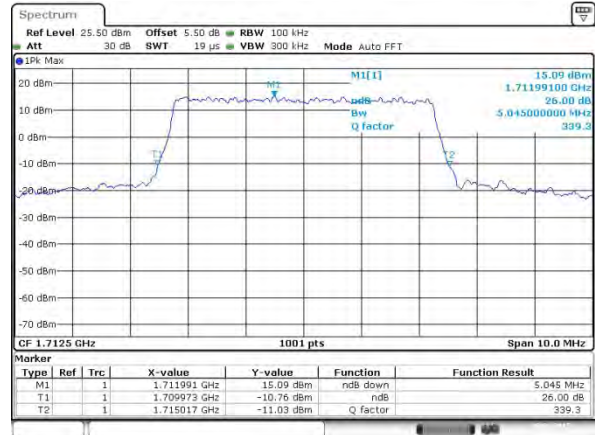


LTE Band 4

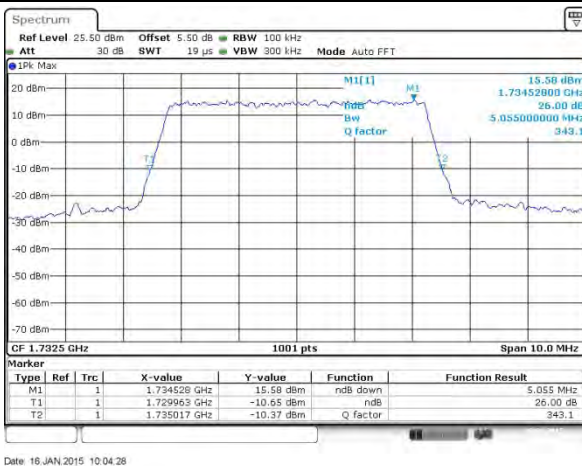
Lowest Channel / 5MHz / QPSK



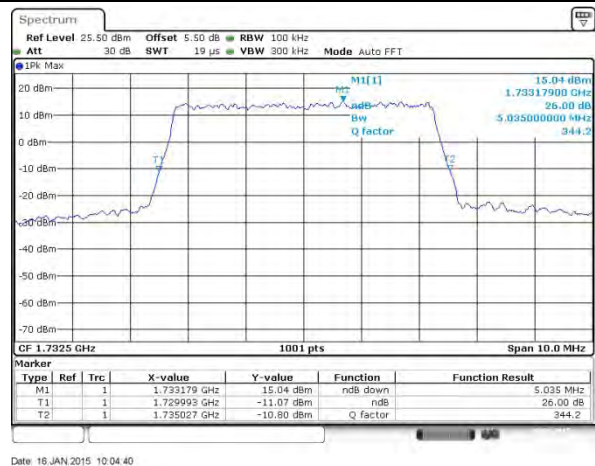
Lowest Channel / 5MHz / 16QAM



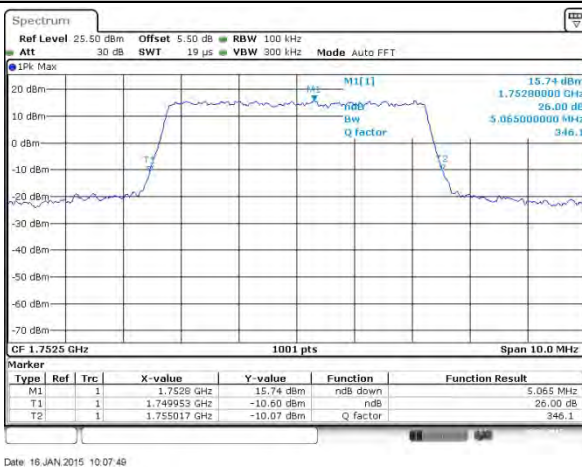
Middle Channel / 5MHz / QPSK



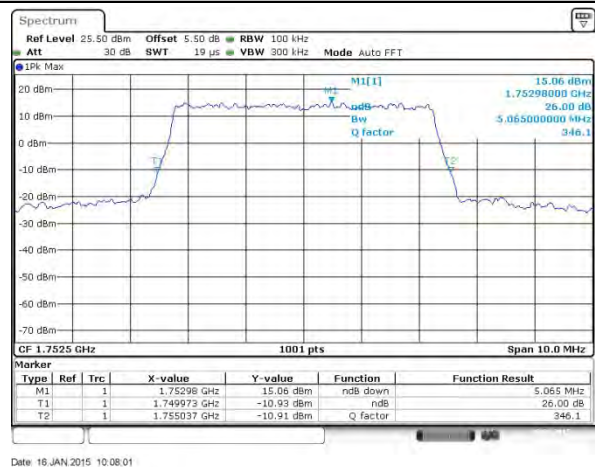
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



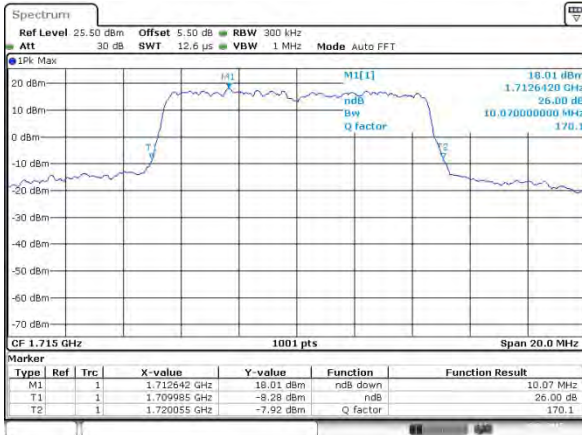
Highest Channel / 5MHz / 16QAM



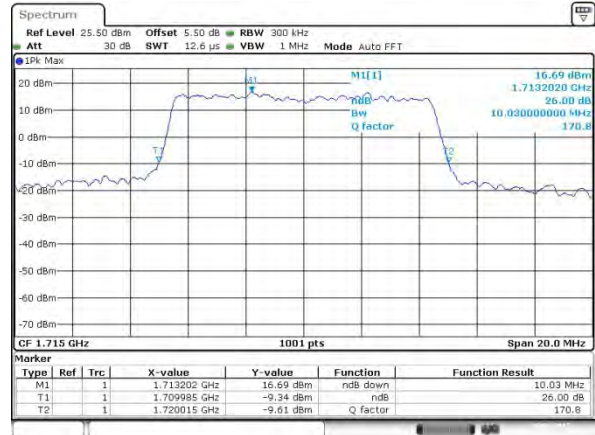


LTE Band 4

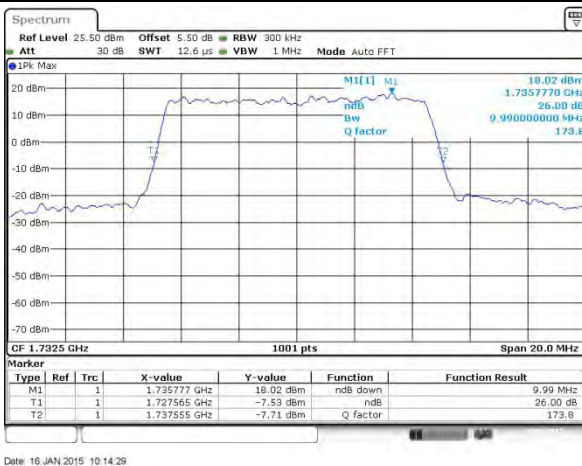
Lowest Channel / 10MHz / QPSK



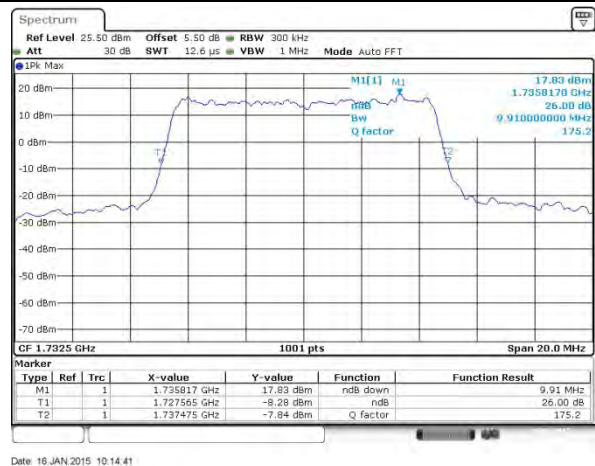
Lowest Channel / 10MHz / 16QAM



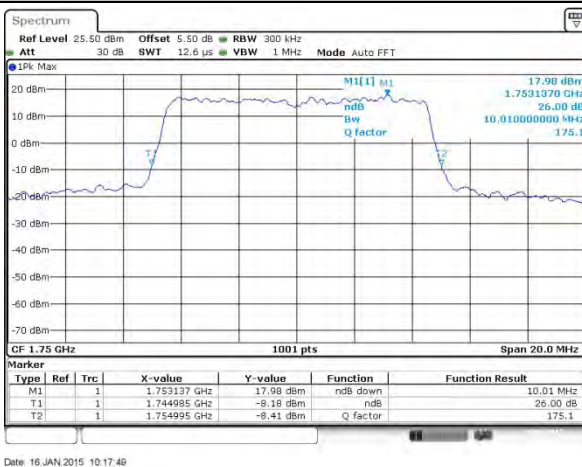
Middle Channel / 10MHz / QPSK



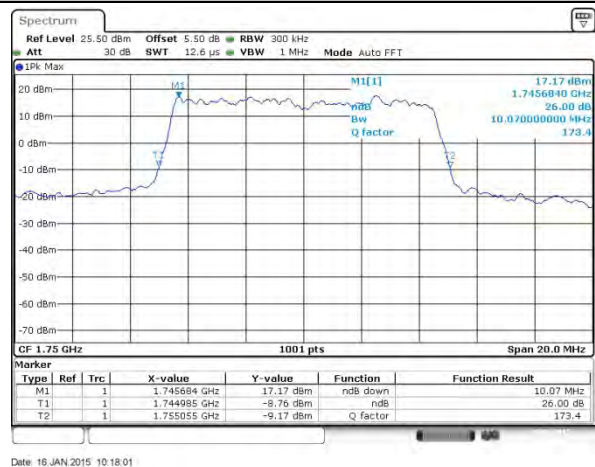
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



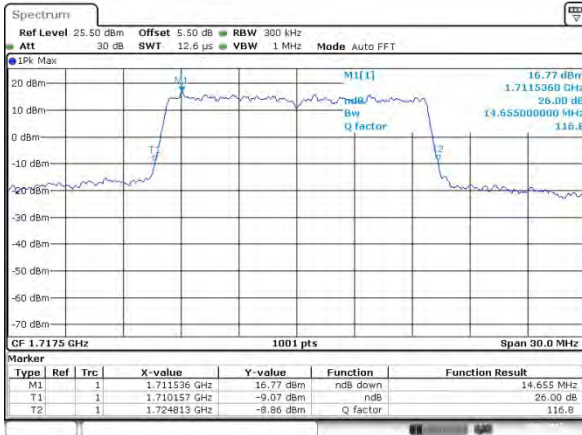
Highest Channel / 10MHz / 16QAM



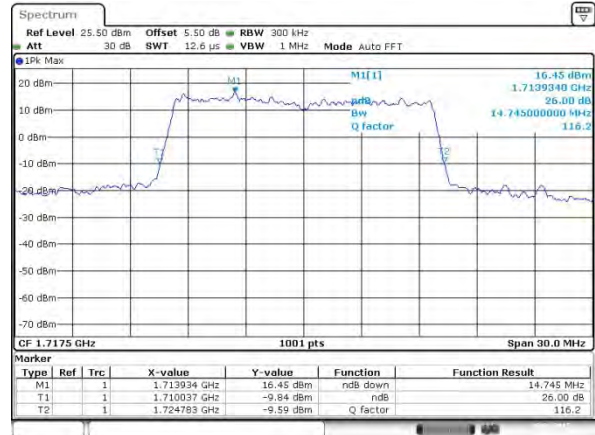


LTE Band 4

Lowest Channel / 15MHz / QPSK



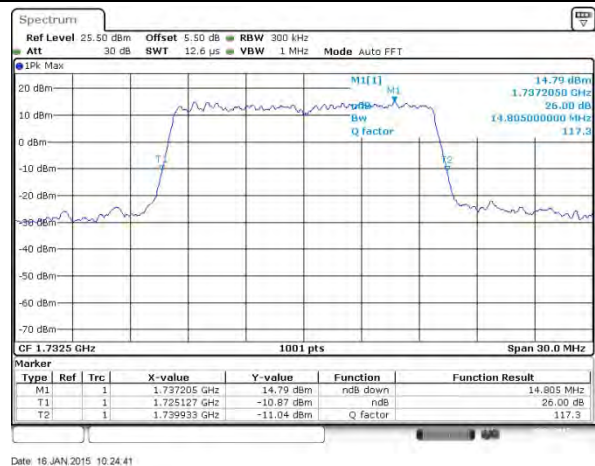
Lowest Channel / 15MHz / 16QAM



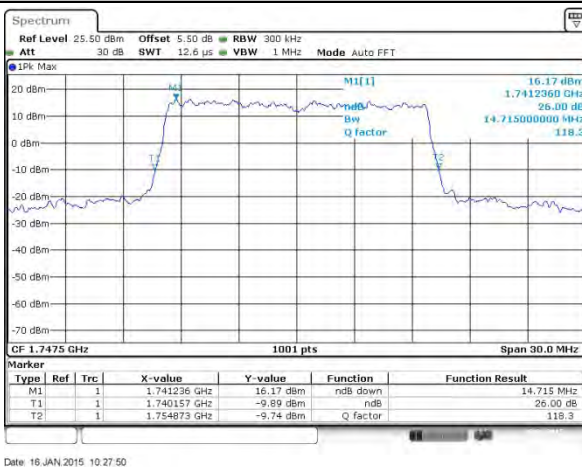
Middle Channel / 15MHz / QPSK



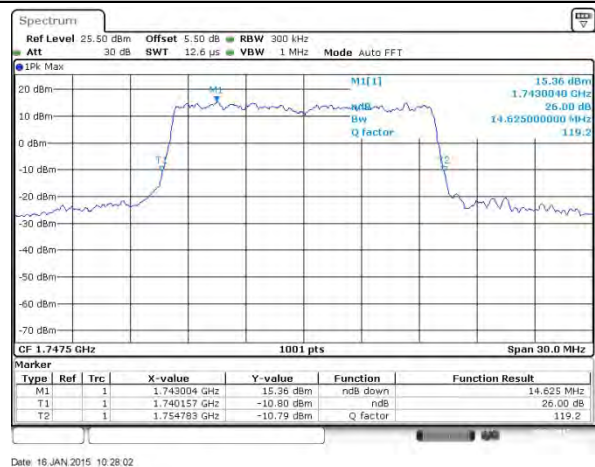
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



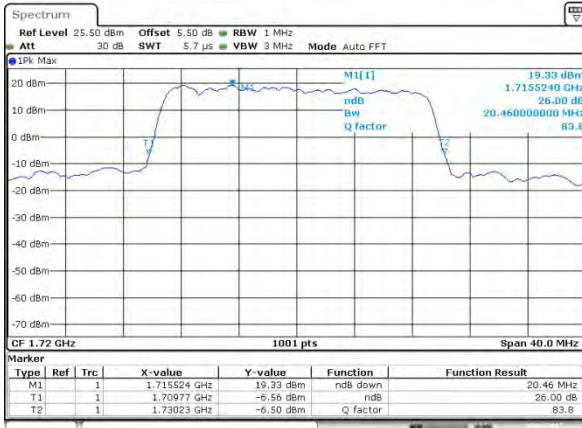
Highest Channel / 15MHz / 16QAM





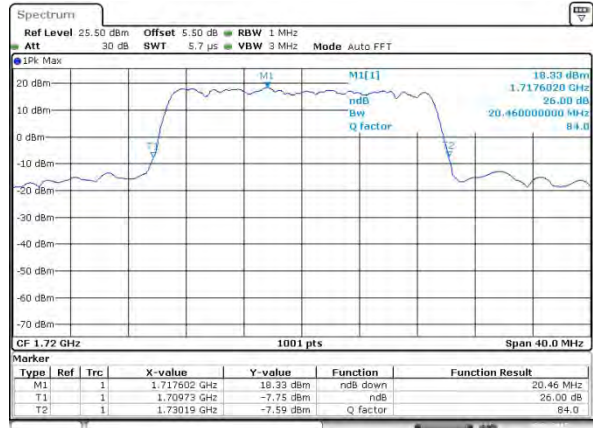
LTE Band 4

Lowest Channel / 20MHz / QPSK



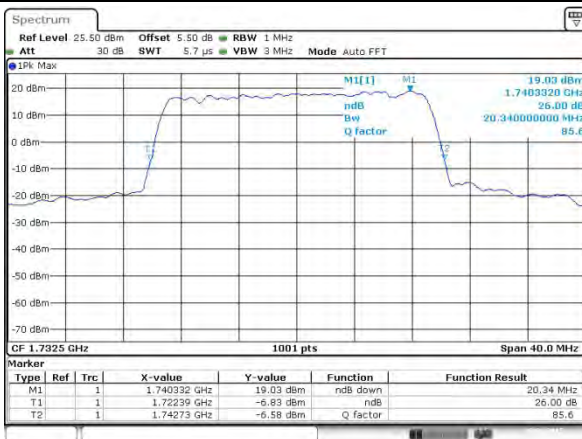
Date: 16 JAN 2015 10:31:10

Lowest Channel / 20MHz / 16QAM



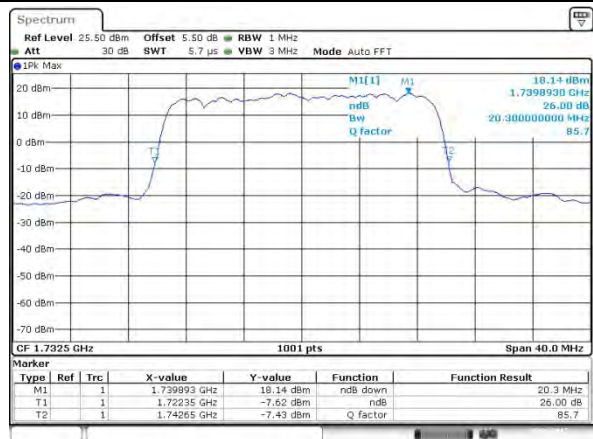
Date: 16 JAN 2015 10:31:22

Middle Channel / 20MHz / QPSK



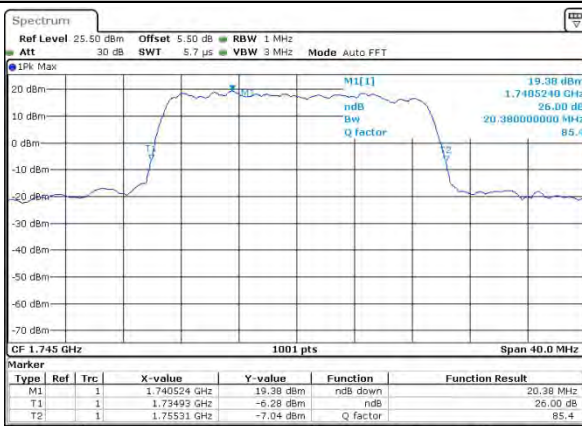
Date: 16 JAN 2015 10:34:30

Middle Channel / 20MHz / 16QAM



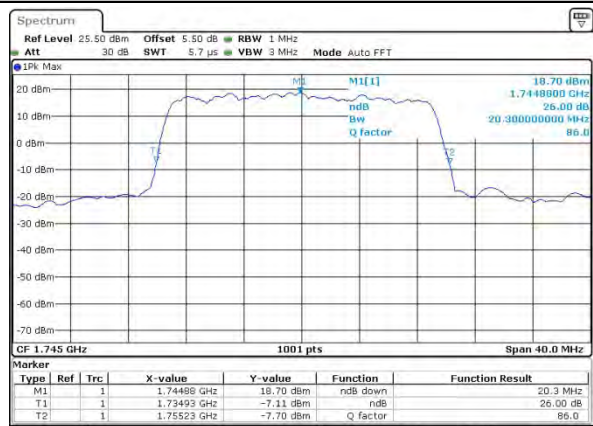
Date: 16 JAN 2015 10:34:42

Highest Channel / 20MHz / QPSK



Date: 16 JAN 2015 10:37:51

Highest Channel / 20MHz / 16QAM



Date: 16 JAN 2015 10:38:02

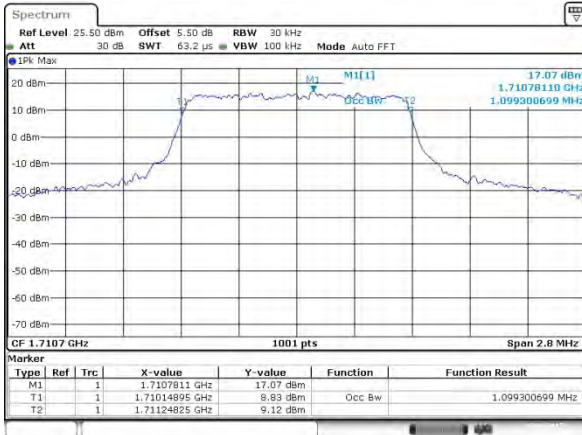
**Occupied Bandwidth**

Mode	LTE Band 4 : 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	1.1	1.1	2.72	2.73	4.52	4.51	9.05	9.05	13.49	13.46	18.46	18.5
Middle CH	1.1	1.09	2.74	2.73	4.5	4.5	9.07	9.01	13.43	13.49	18.30	18.42
Highest CH	1.1	1.1	2.73	2.72	4.51	4.51	9.09	9.03	13.46	13.43	18.34	18.22

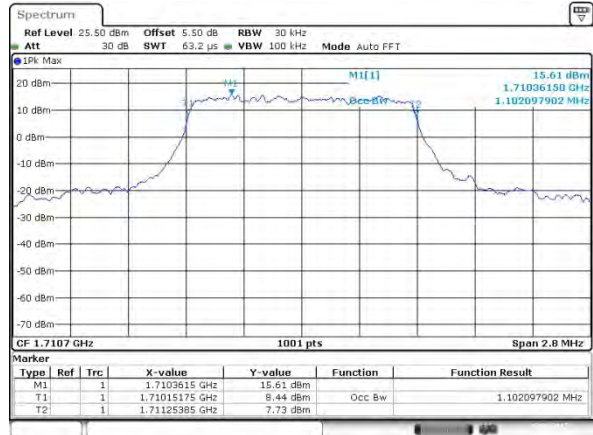


LTE Band 4

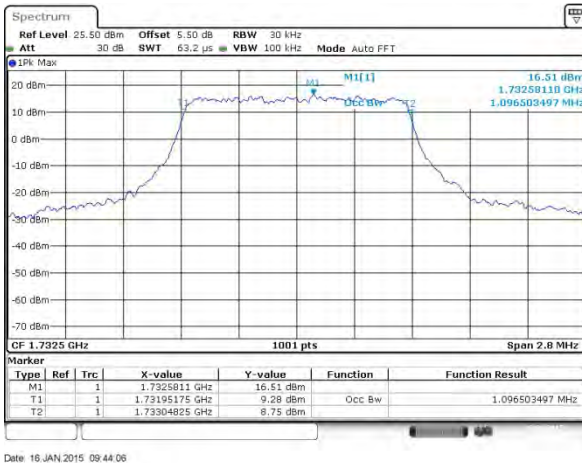
Lowest Channel / 1.4MHz / QPSK



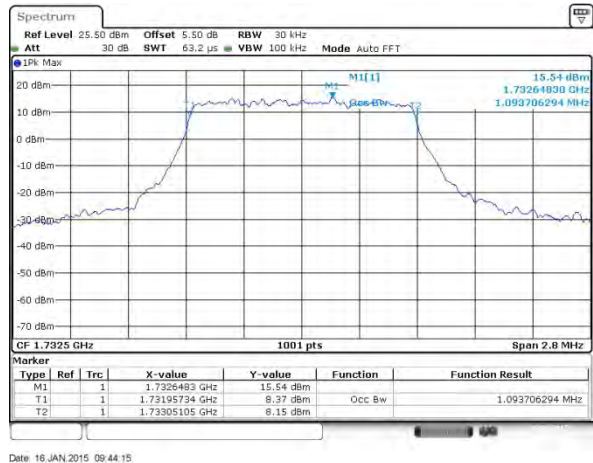
Lowest Channel / 1.4MHz / 16QAM



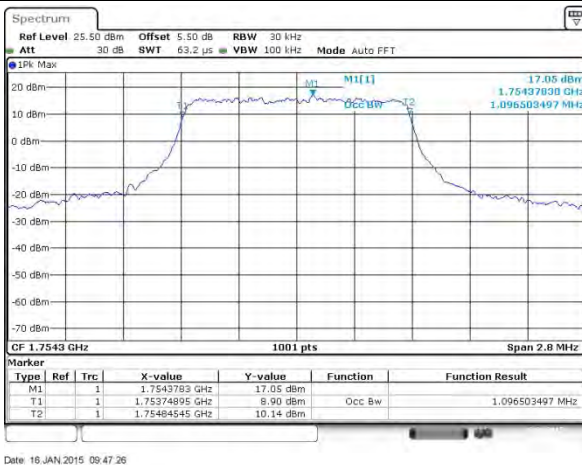
Middle Channel / 1.4MHz / QPSK



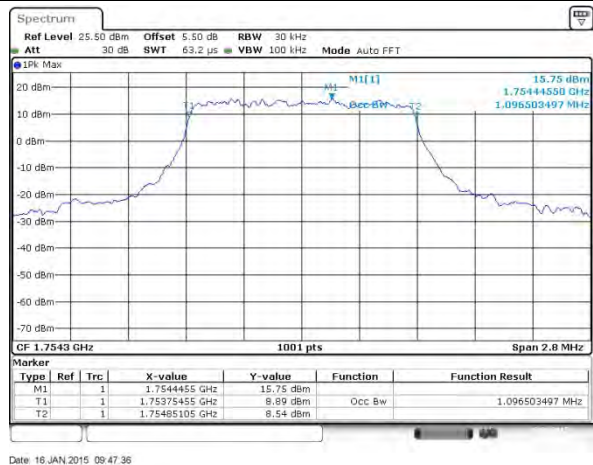
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



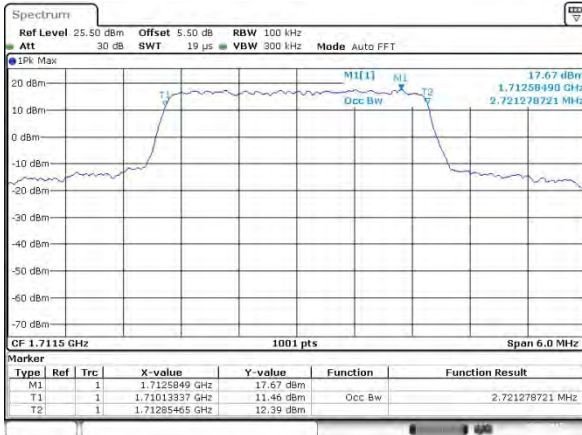
Highest Channel / 1.4MHz / 16QAM



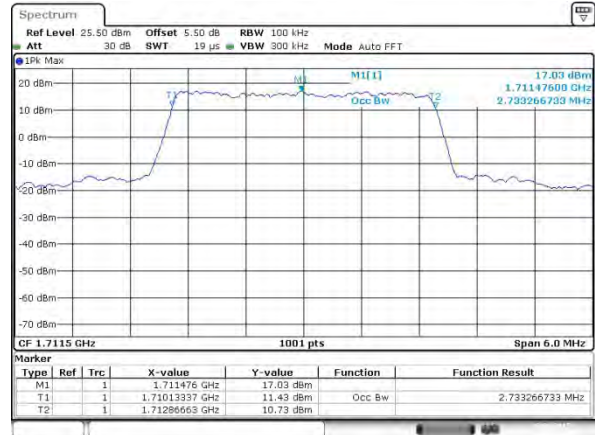


LTE Band 4

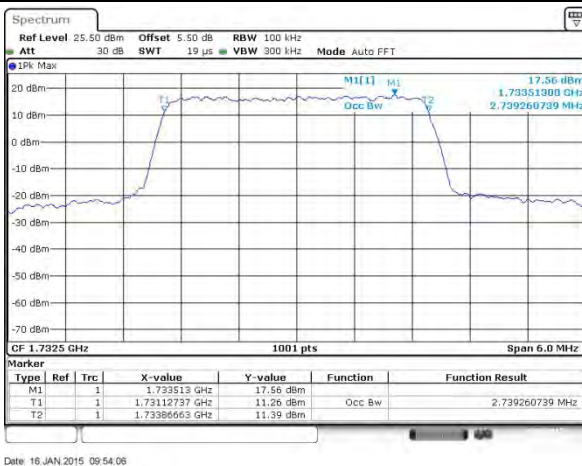
Lowest Channel / 3MHz / QPSK



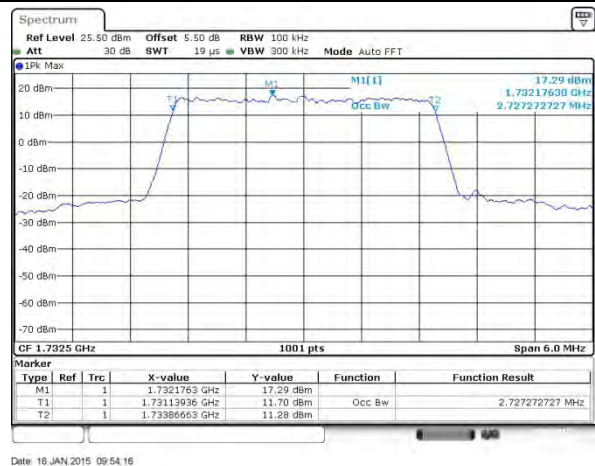
Lowest Channel / 3MHz / 16QAM



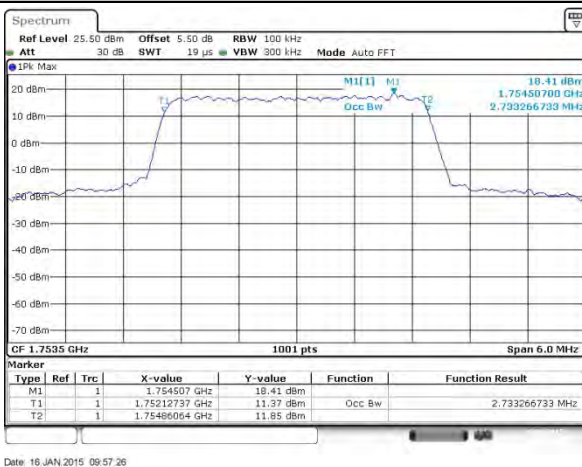
Middle Channel / 3MHz / QPSK



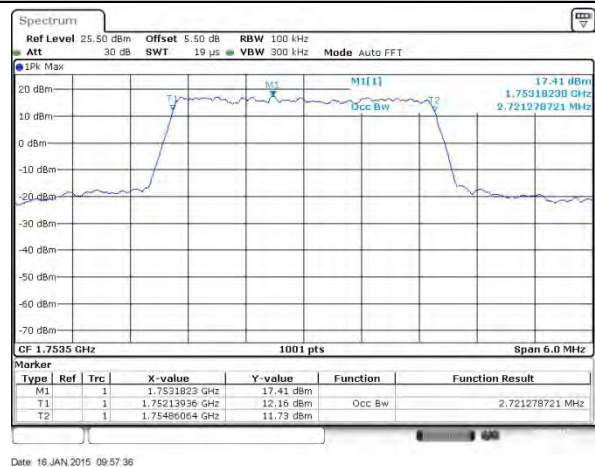
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



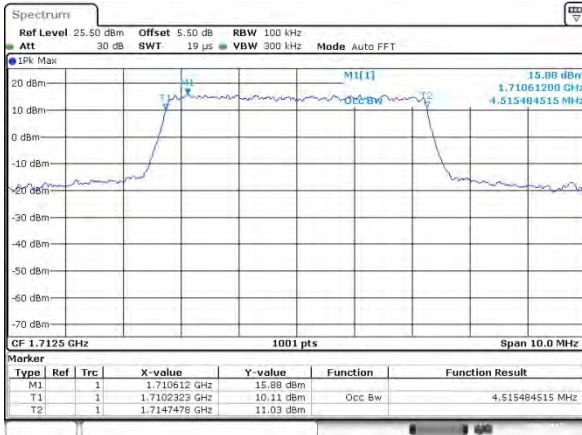
Highest Channel / 3MHz / 16QAM



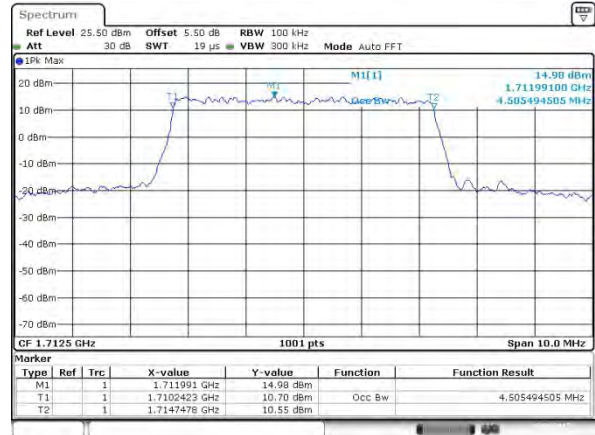


LTE Band 4

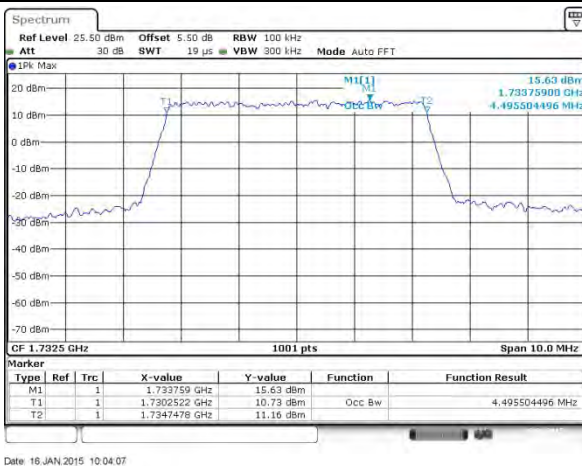
Lowest Channel / 5MHz / QPSK



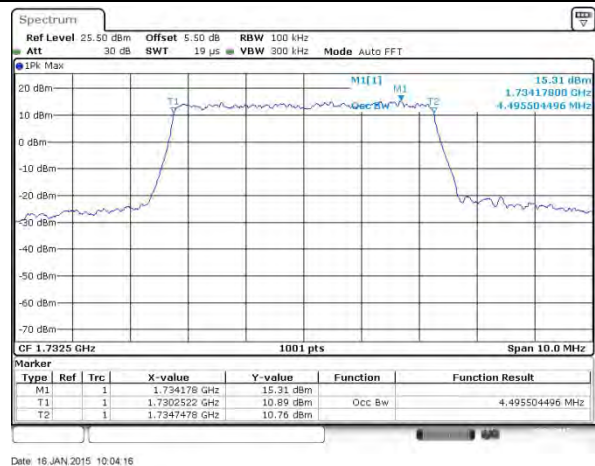
Lowest Channel / 5MHz / 16QAM



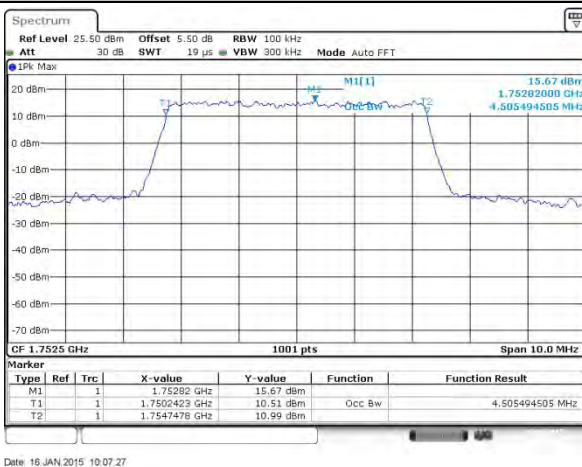
Middle Channel / 5MHz / QPSK



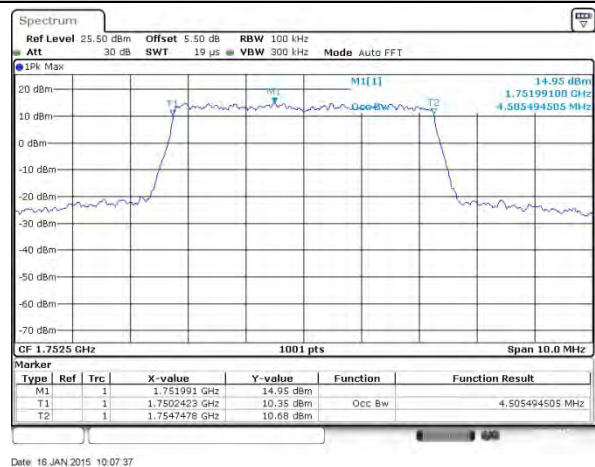
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



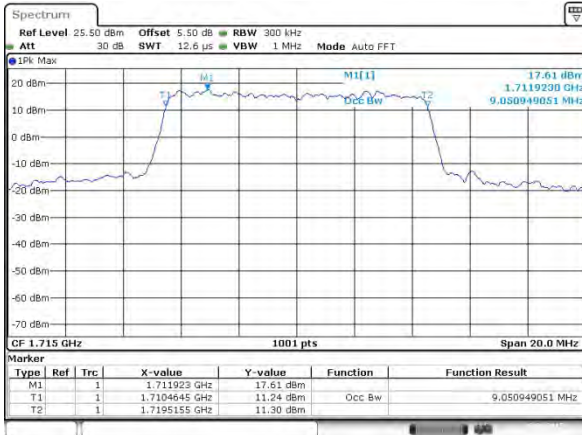
Highest Channel / 5MHz / 16QAM



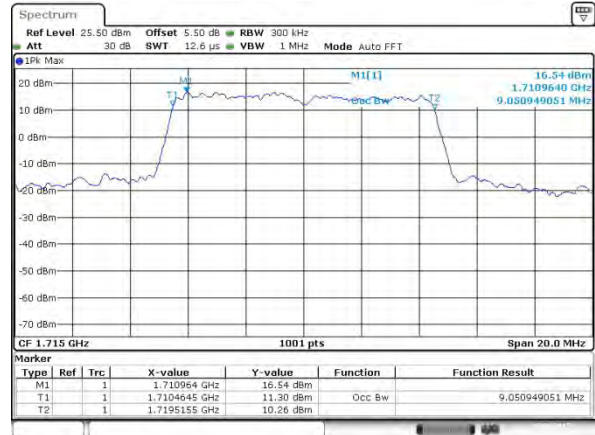


LTE Band 4

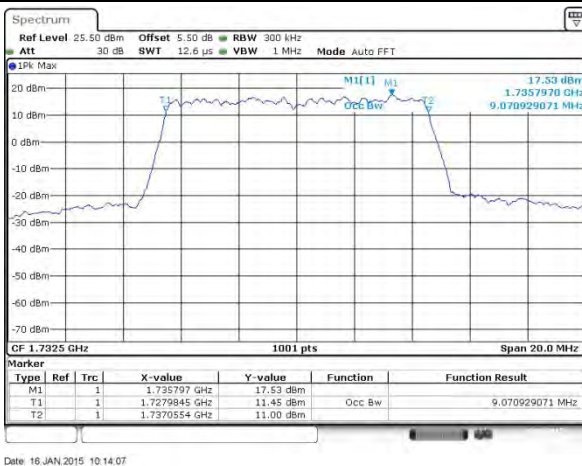
Lowest Channel / 10MHz / QPSK



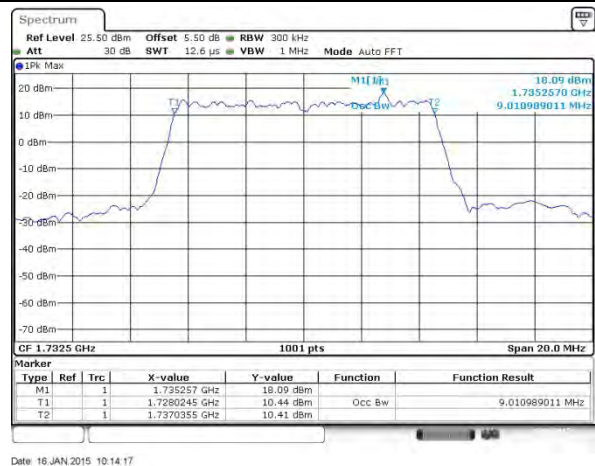
Lowest Channel / 10MHz / 16QAM



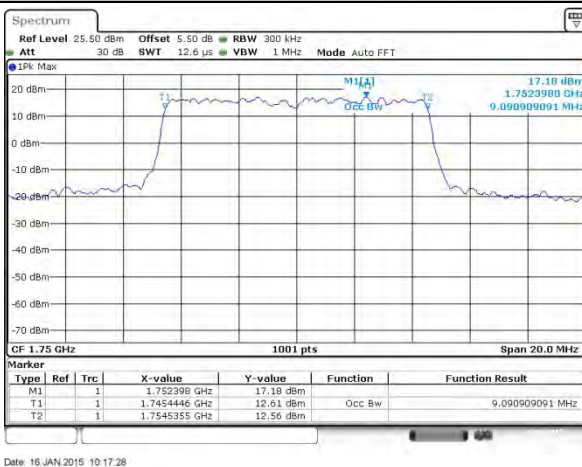
Middle Channel / 10MHz / QPSK



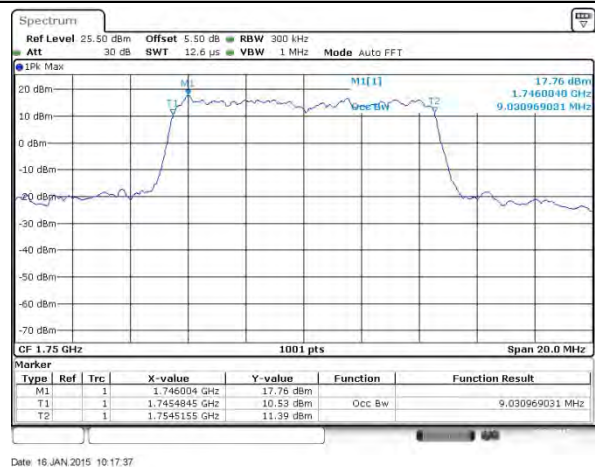
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



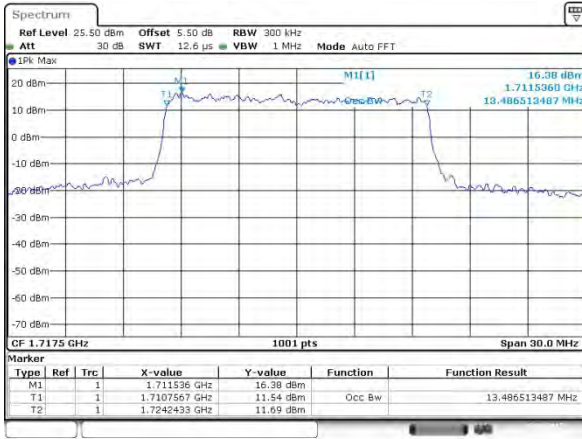
Highest Channel / 10MHz / 16QAM



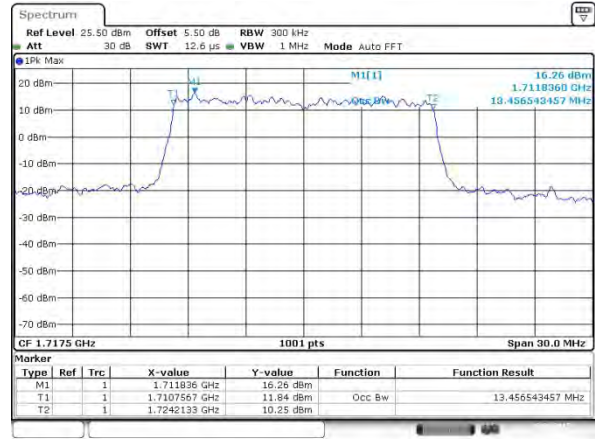


LTE Band 4

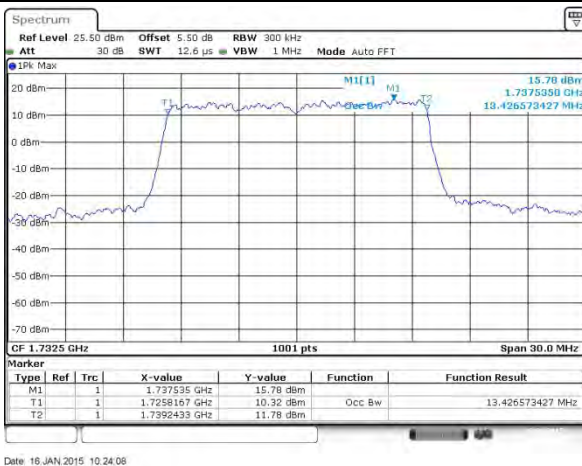
Lowest Channel / 15MHz / QPSK



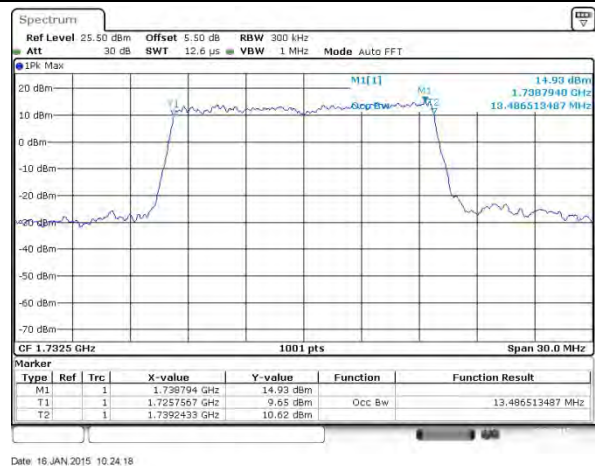
Lowest Channel / 15MHz / 16QAM



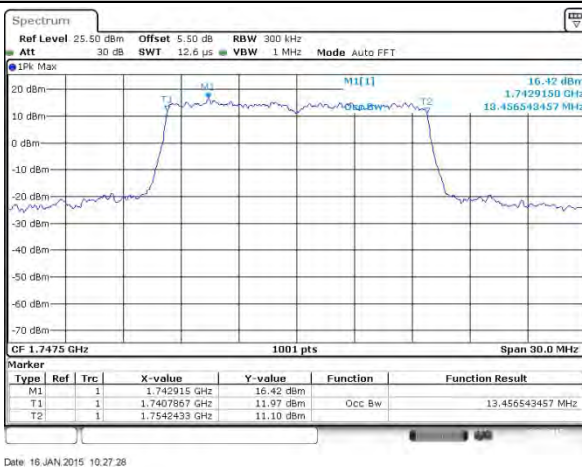
Middle Channel / 15MHz / QPSK



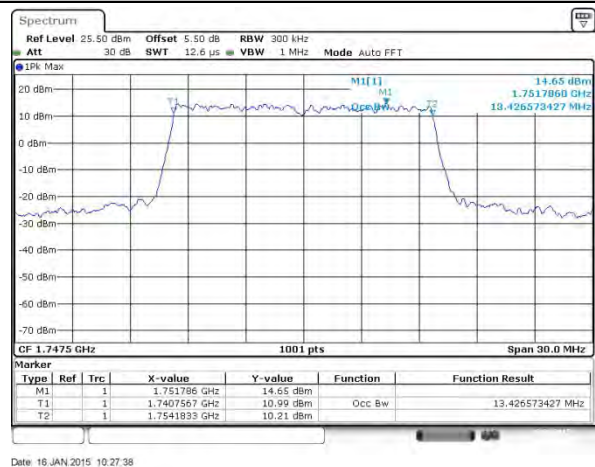
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



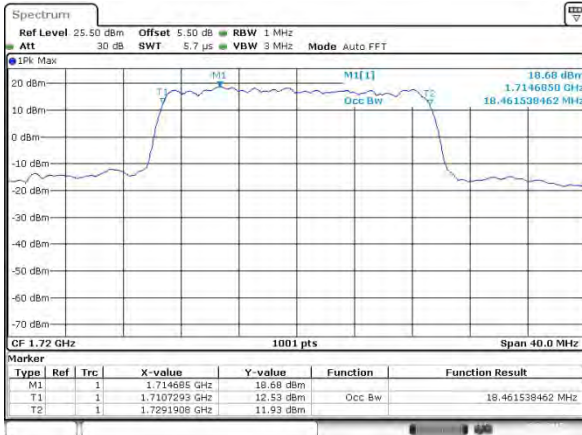
Highest Channel / 15MHz / 16QAM



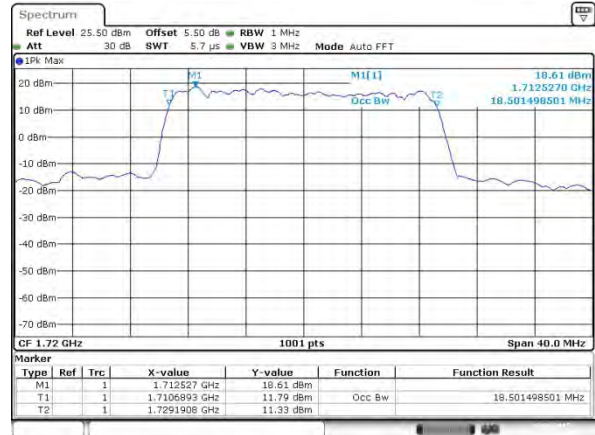


LTE Band 4

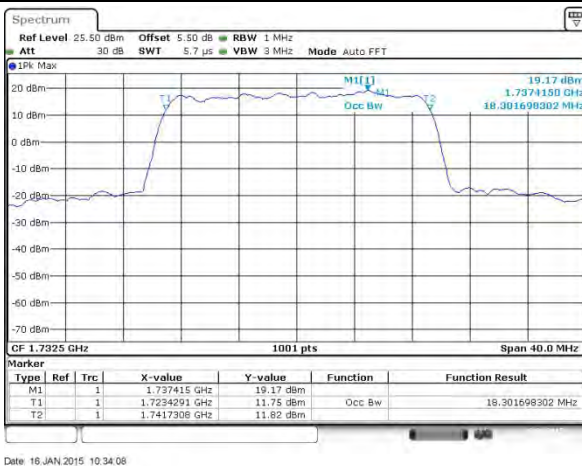
Lowest Channel / 20MHz / QPSK



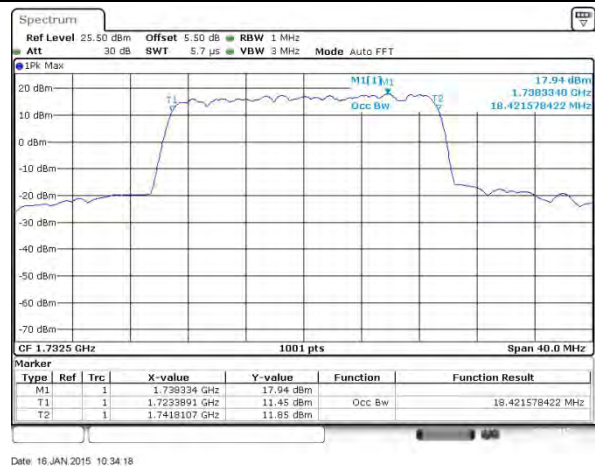
Lowest Channel / 20MHz / 16QAM



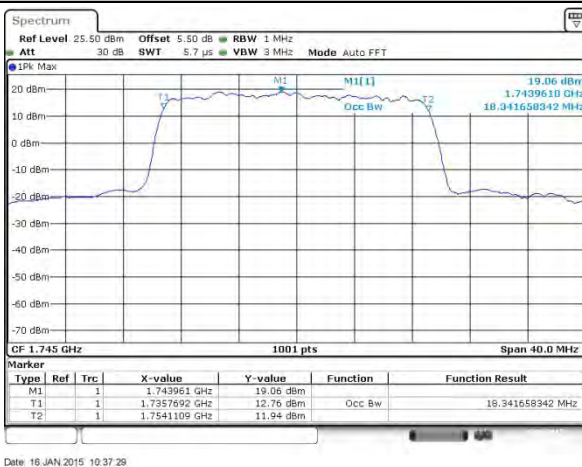
Middle Channel / 20MHz / QPSK



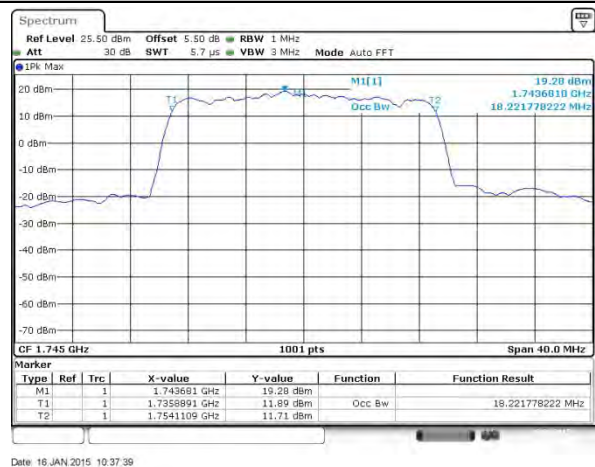
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



**Conducted Band Edge****LTE Band 4 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 4 / 1.4MHz / 16QAM

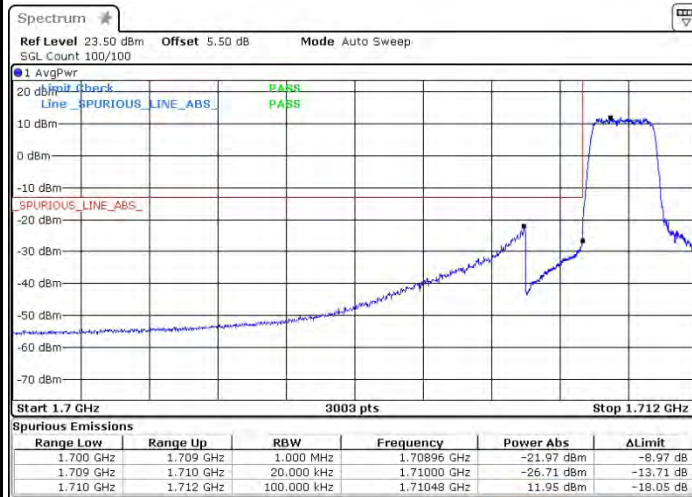
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



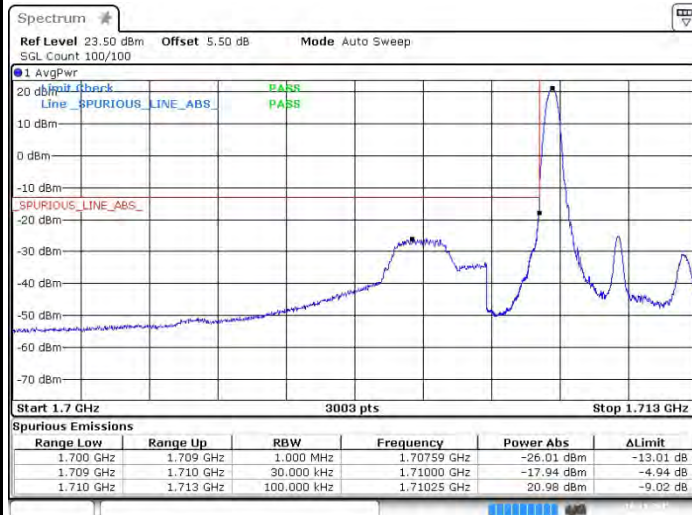
Highest Band Edge / Full RB





LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB



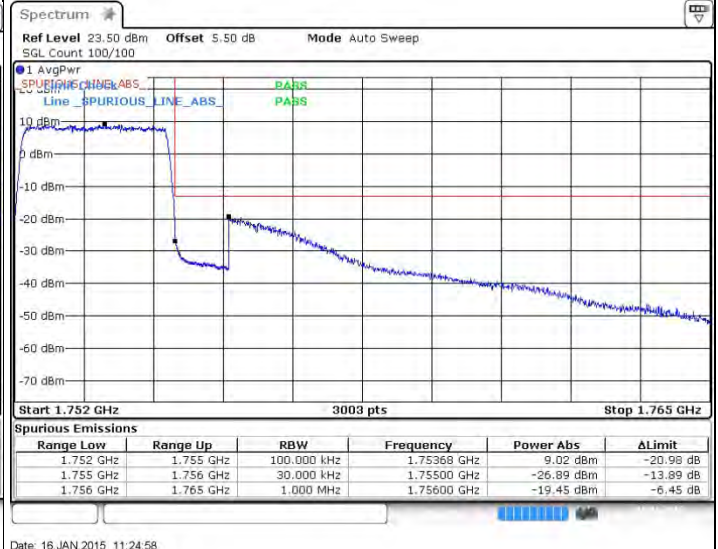
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



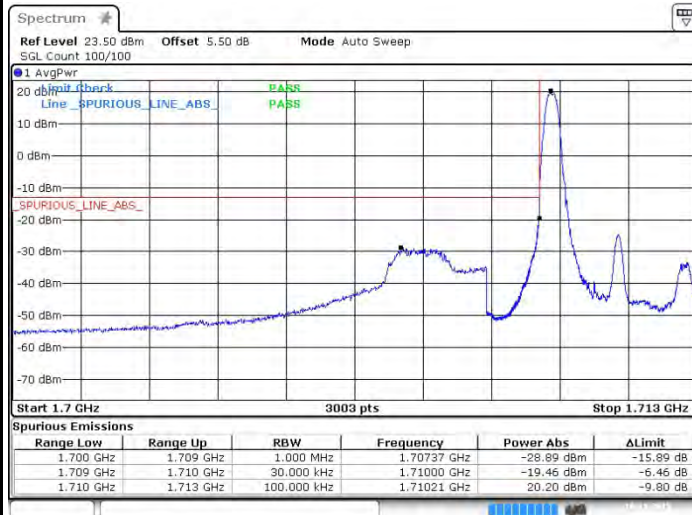
Highest Band Edge / Full RB





LTE Band 4 / 3MHz / 16QAM

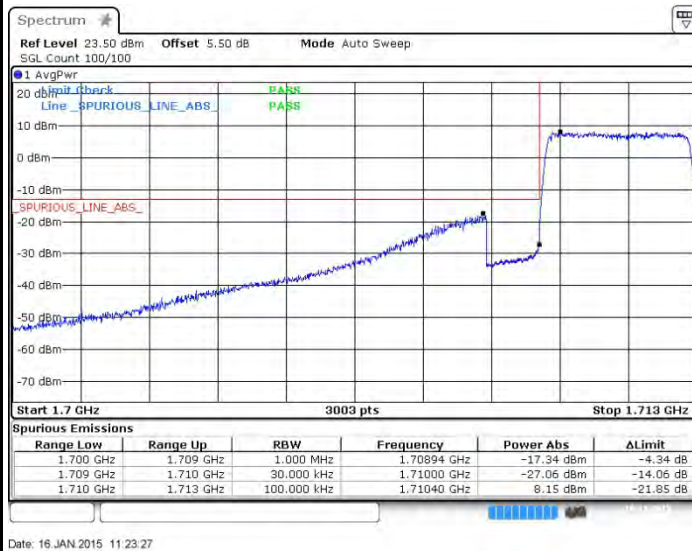
Lowest Band Edge / 1 RB



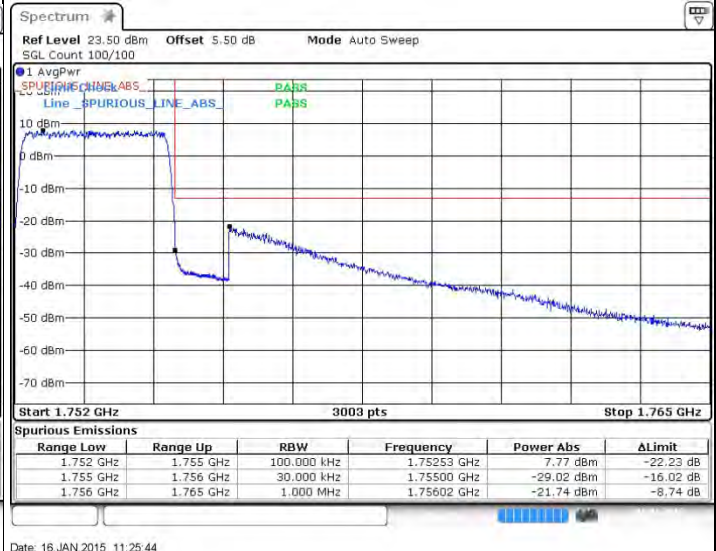
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



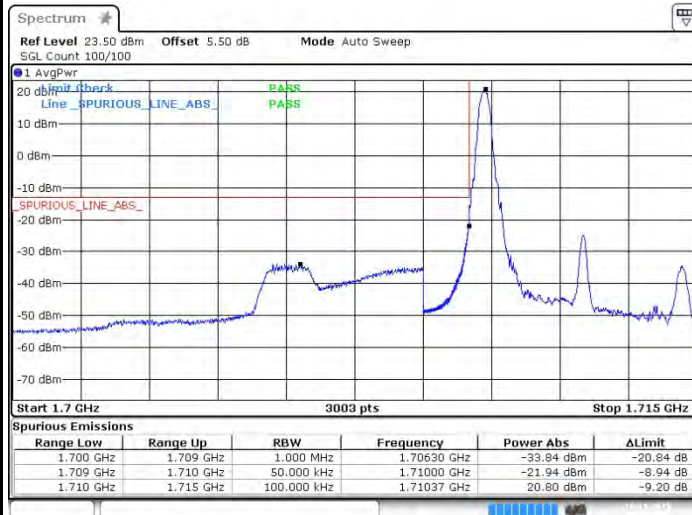
Highest Band Edge / Full RB





LTE Band 4 / 5MHz / QPSK

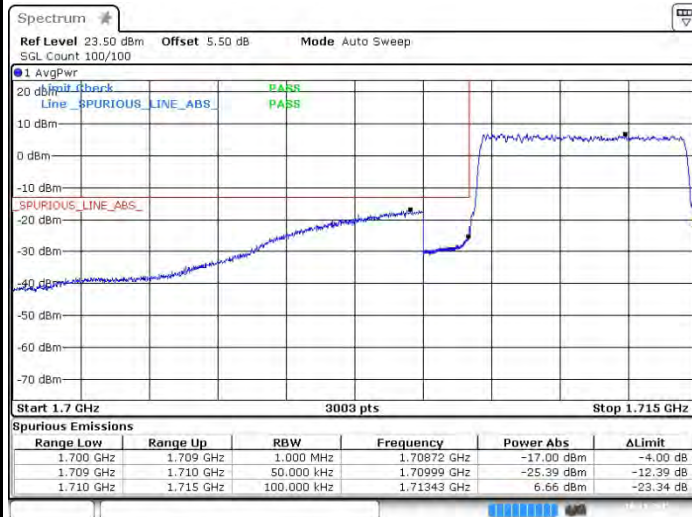
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



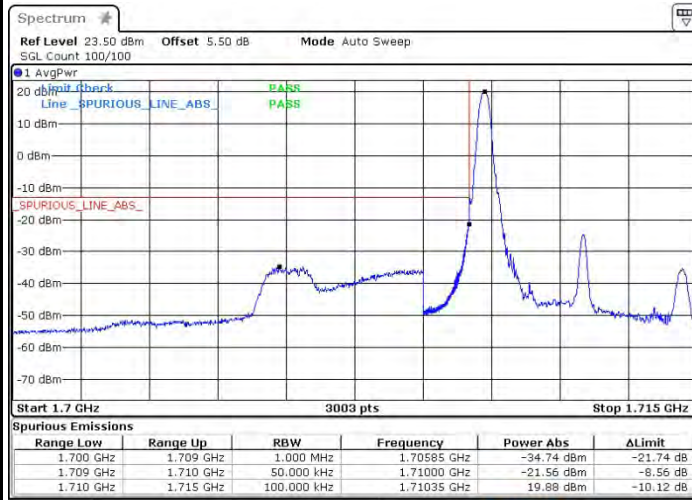
Highest Band Edge / Full RB



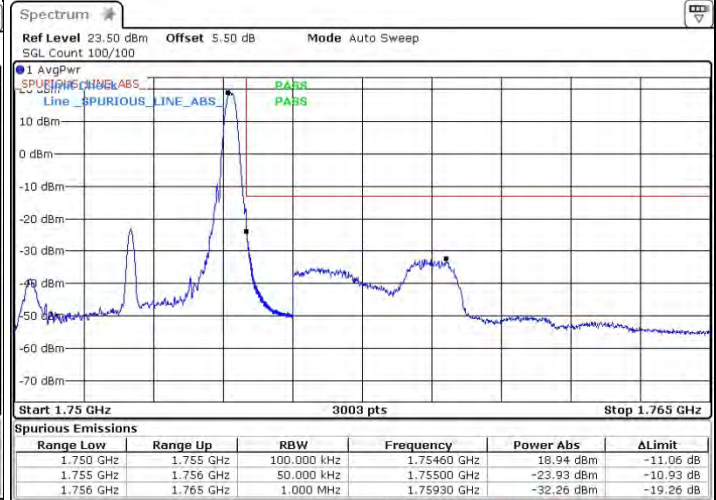


LTE Band 4 / 5MHz / 16QAM

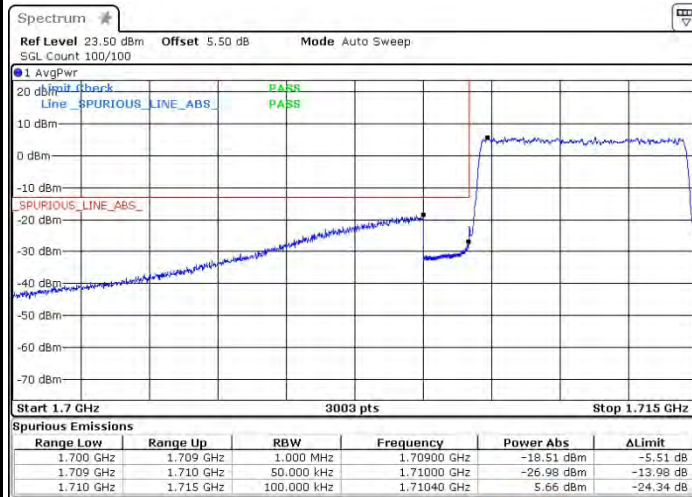
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



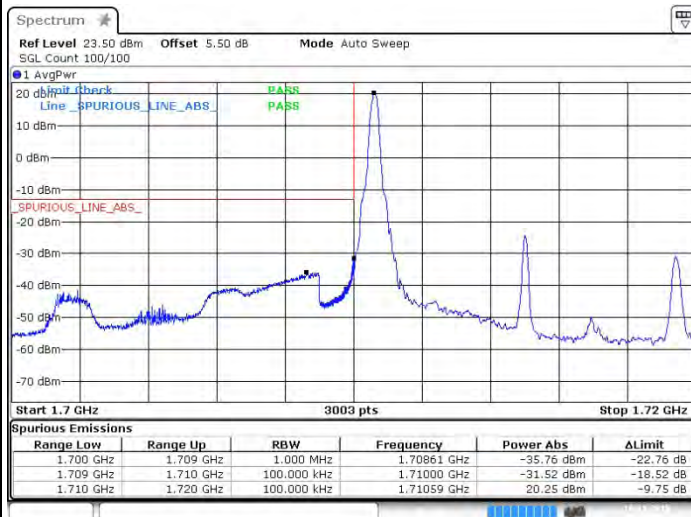
Highest Band Edge / Full RB



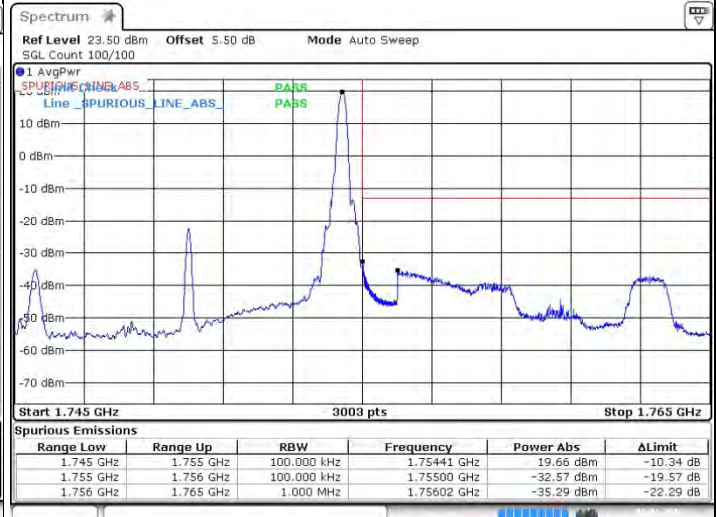


LTE Band 4 / 10MHz / QPSK

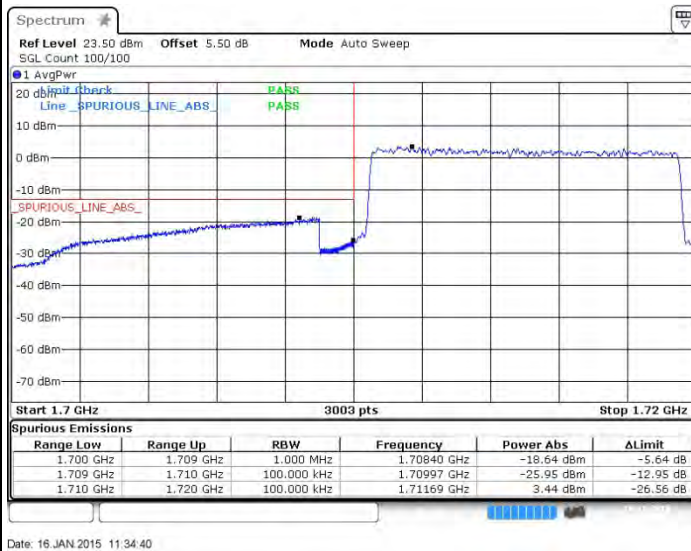
Lowest Band Edge / 1 RB



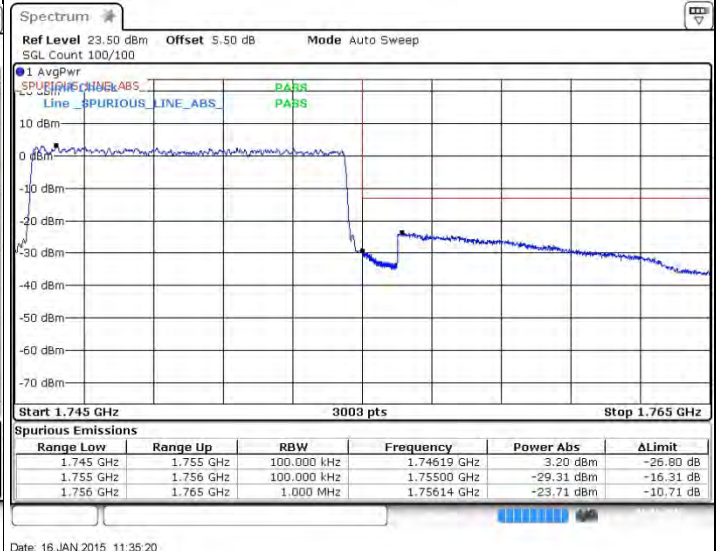
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



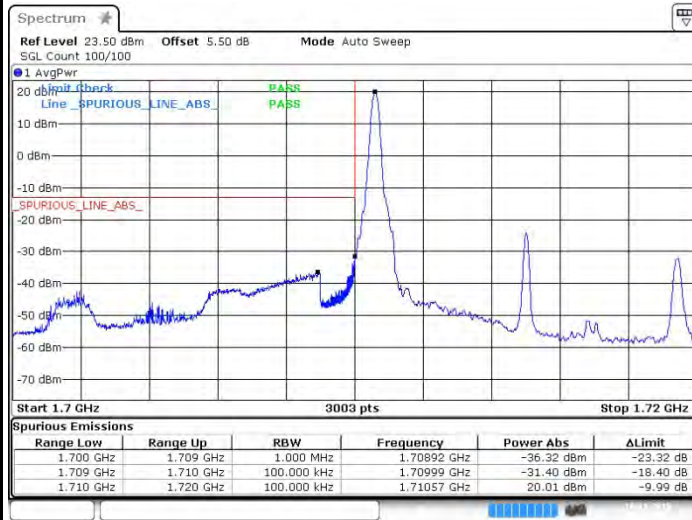
Highest Band Edge / Full RB



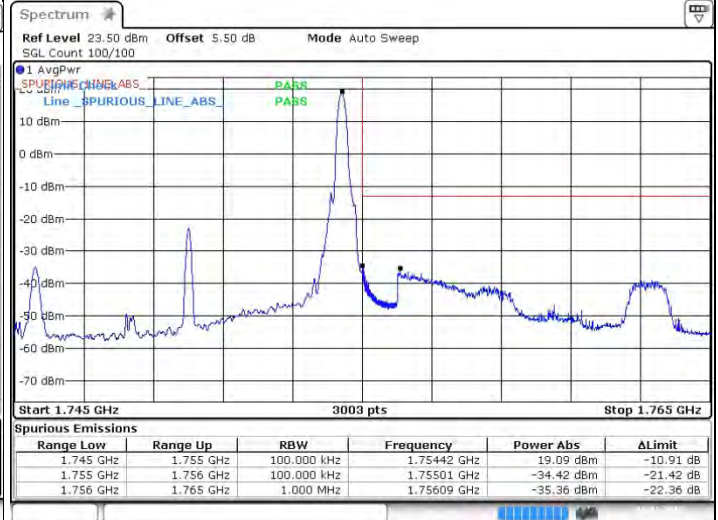


LTE Band 4 / 10MHz / 16QAM

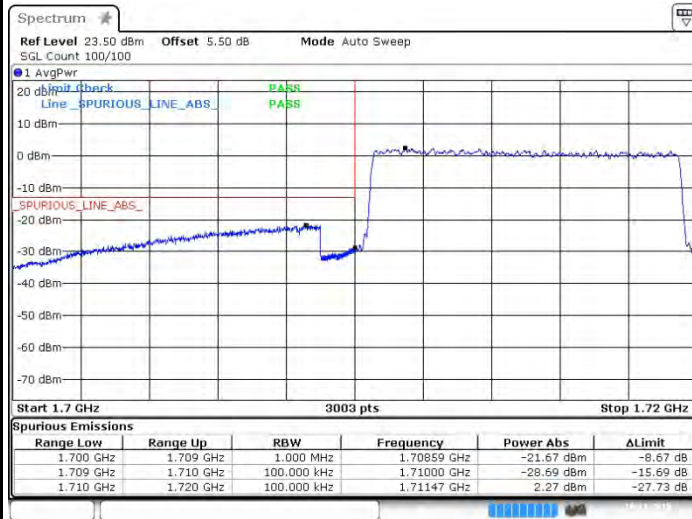
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



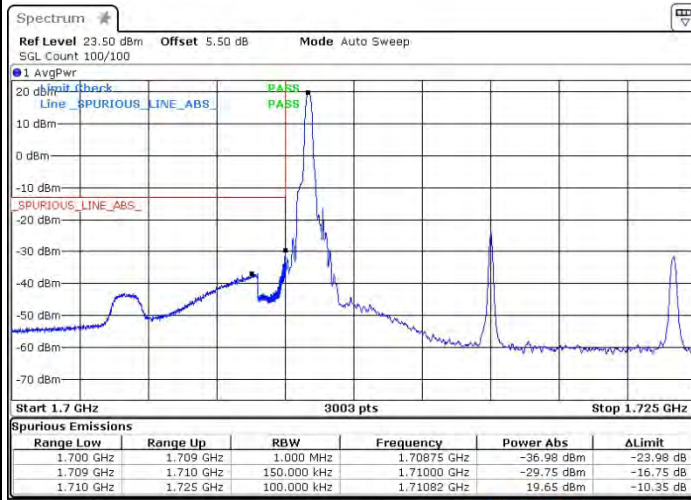
Highest Band Edge / Full RB





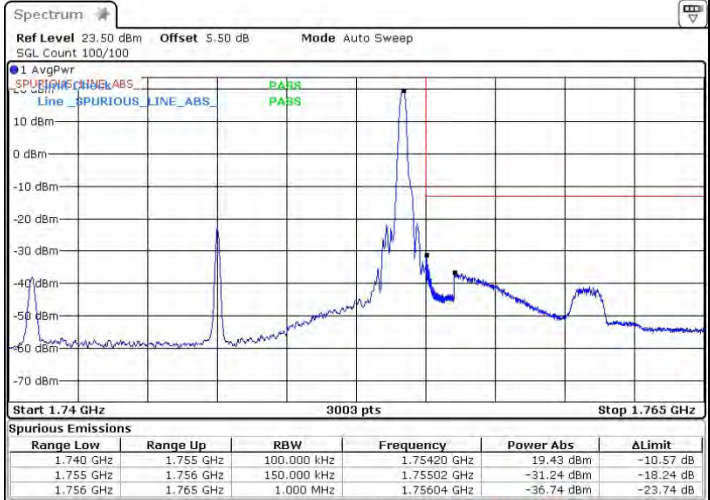
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



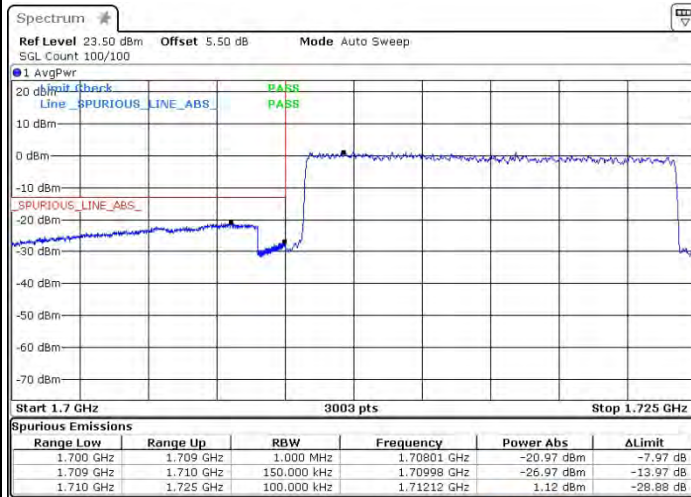
Date: 16 JAN 2015 11:37:07

Highest Band Edge / 1 RB



Date: 16 JAN 2015 11:39:34

Lowest Band Edge / Full RB



Date: 16 JAN 2015 11:38:10

Highest Band Edge / Full RB

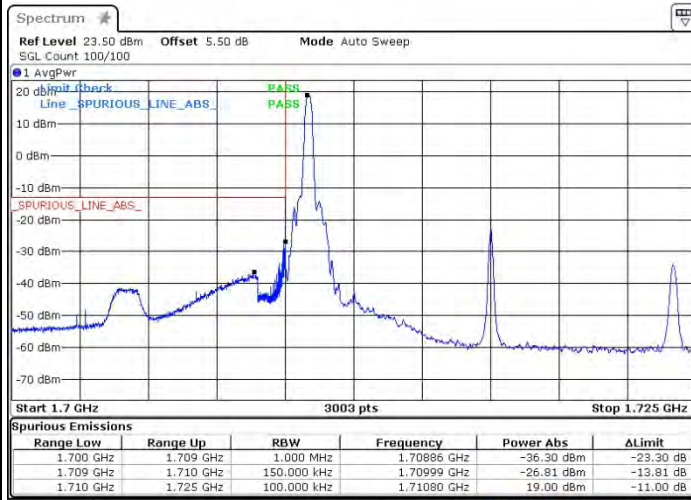


Date: 16 JAN 2015 11:38:37

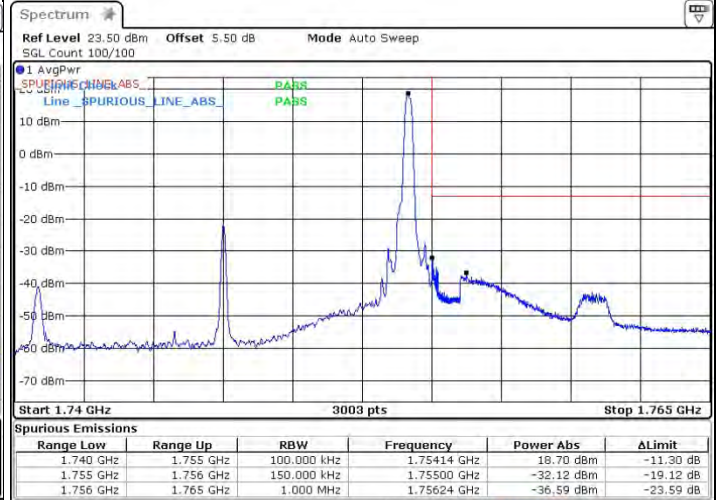


LTE Band 4 / 15MHz / 16QAM

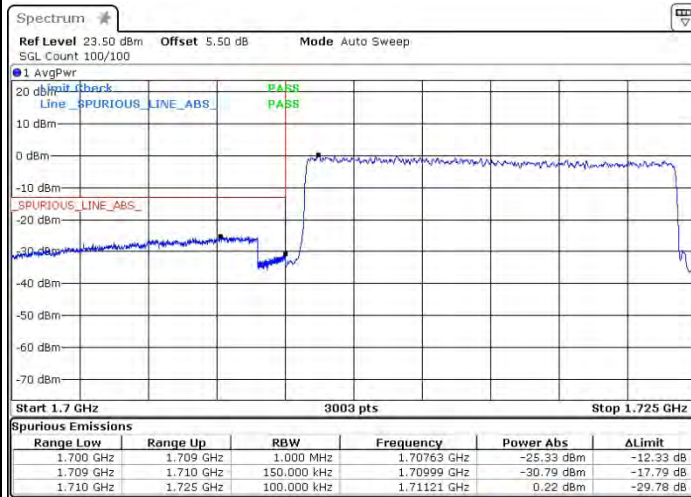
Lowest Band Edge / 1 RB



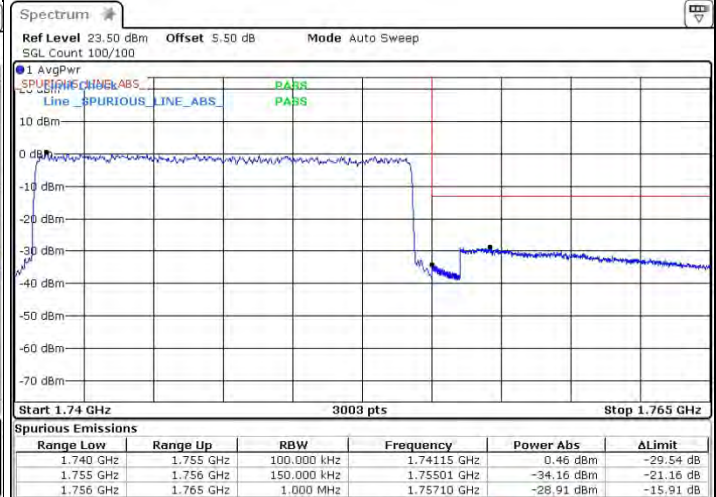
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



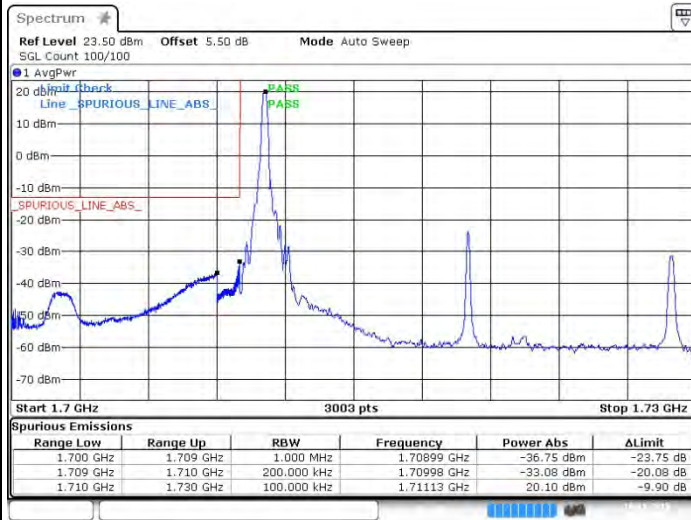
Highest Band Edge / Full RB



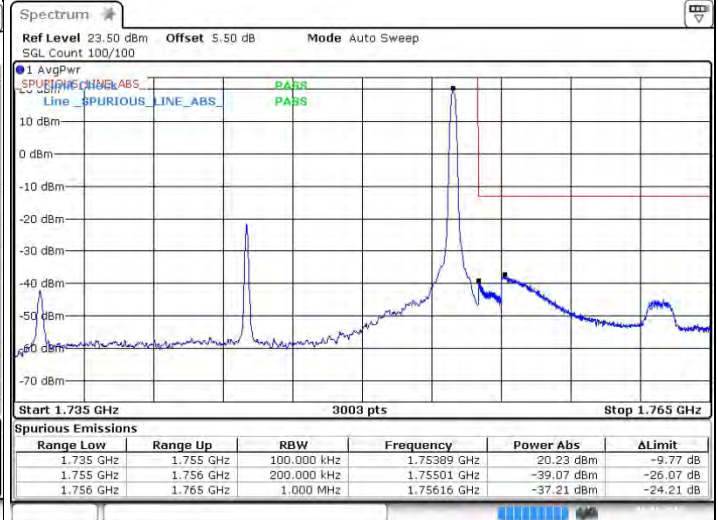


LTE Band 4 / 20MHz / QPSK

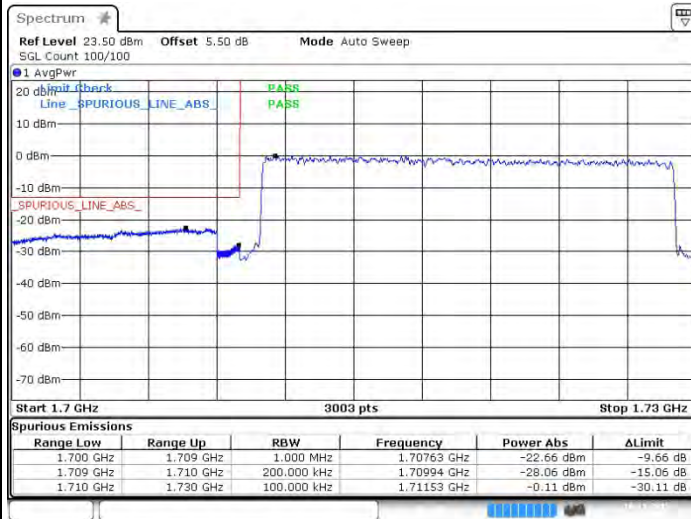
Lowest Band Edge / 1 RB



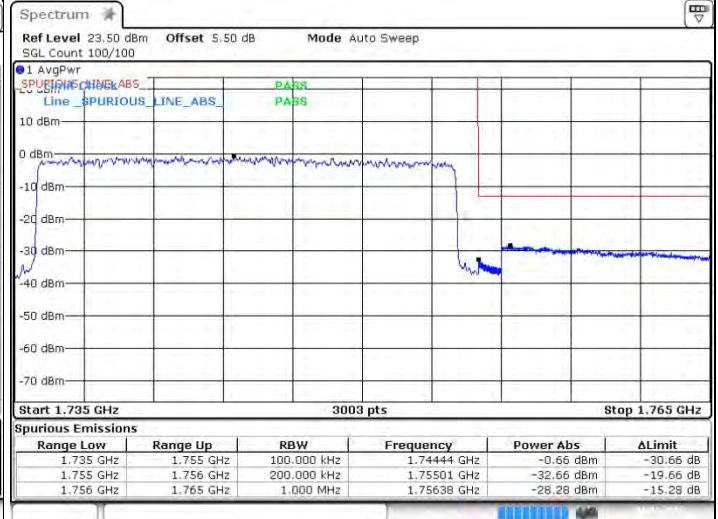
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



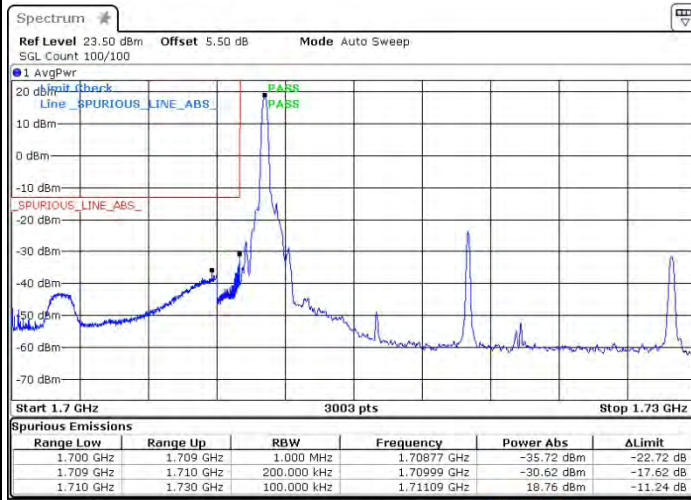
Highest Band Edge / Full RB



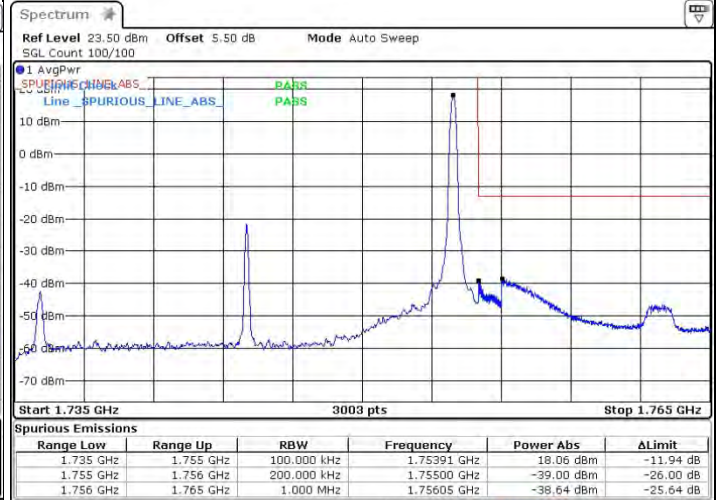


LTE Band 4 / 20MHz / 16QAM

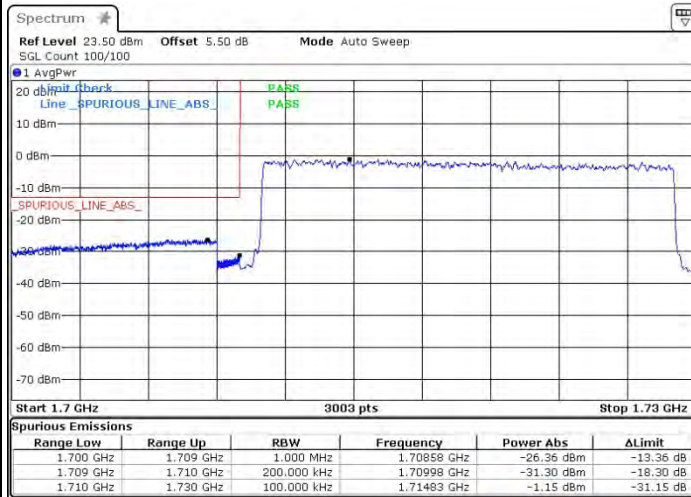
Lowest Band Edge / 1 RB



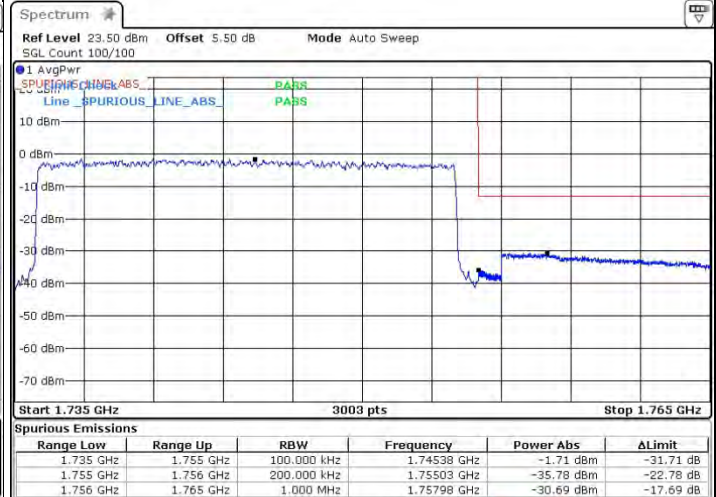
Highest Band Edge / 1 RB

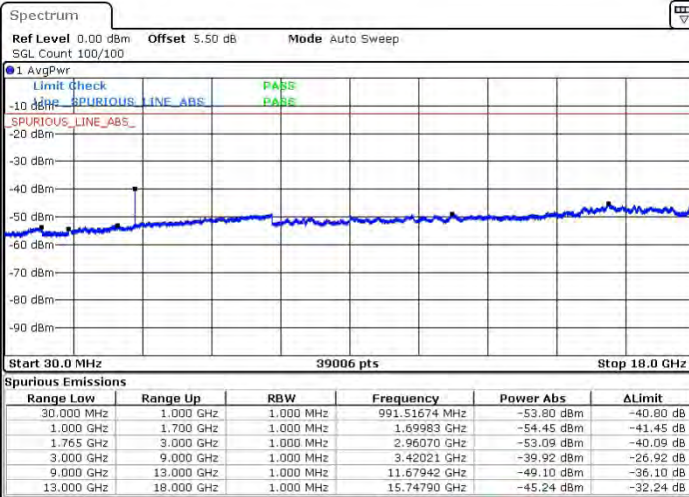


Lowest Band Edge / Full RB

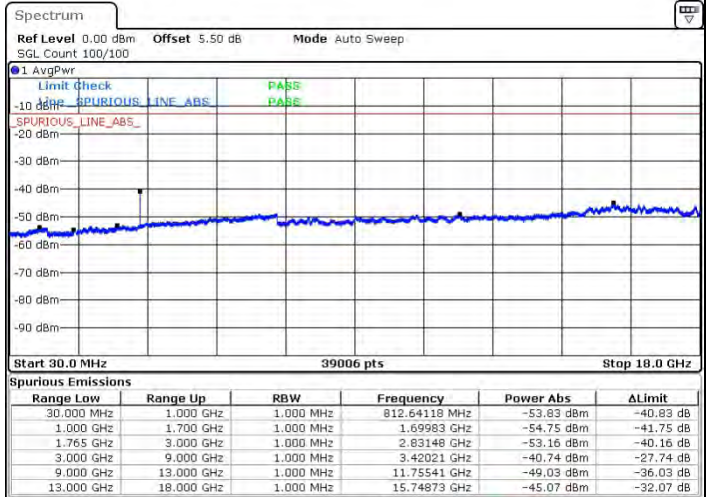


Highest Band Edge / Full RB

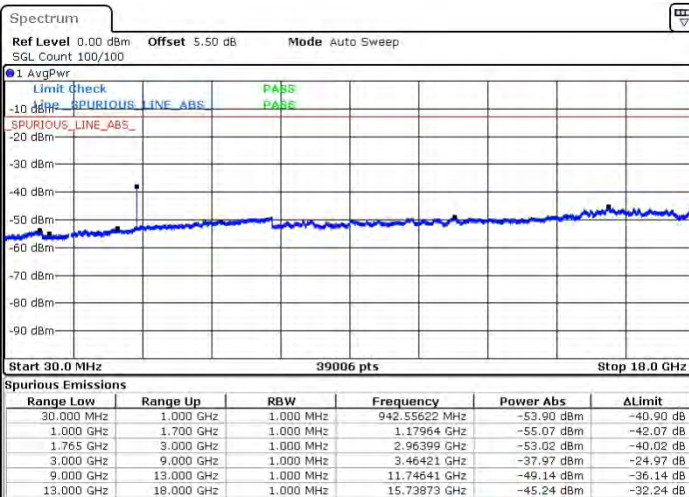


**Conducted Spurious Emission****LTE Band 4 / 1.4MHz****Lowest Channel / QPSK****Lowest Channel / 16QAM**

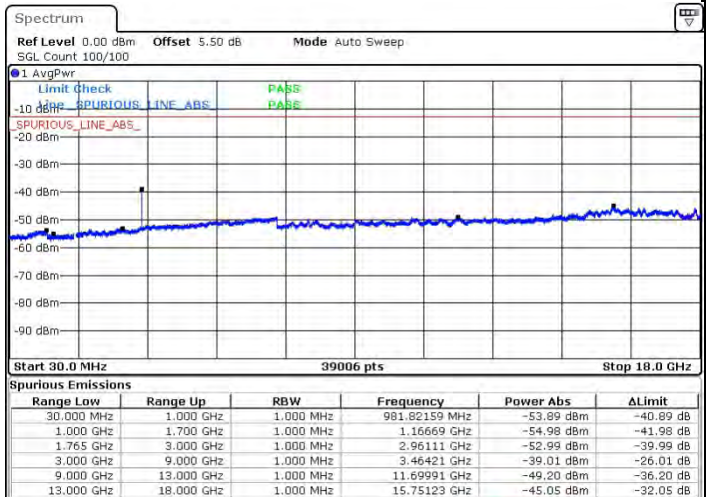
Date: 16 JAN 2015 09:42:27



Date: 16 JAN 2015 09:43:45

Middle Channel / QPSK**Middle Channel / 16QAM**

Date: 16 JAN 2015 09:45:47

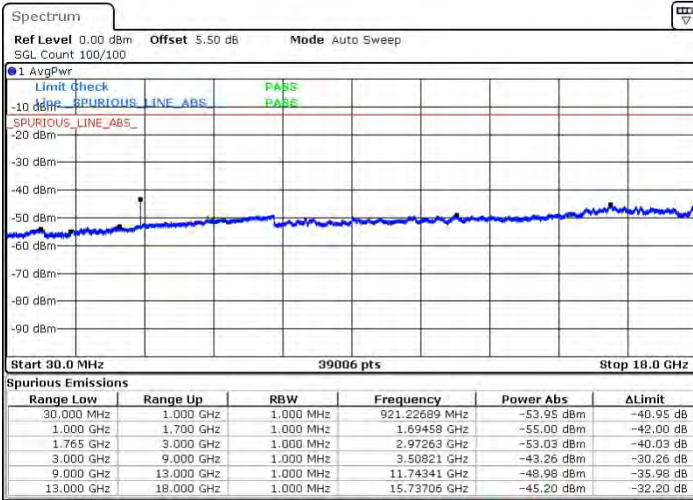


Date: 16 JAN 2015 09:47:05



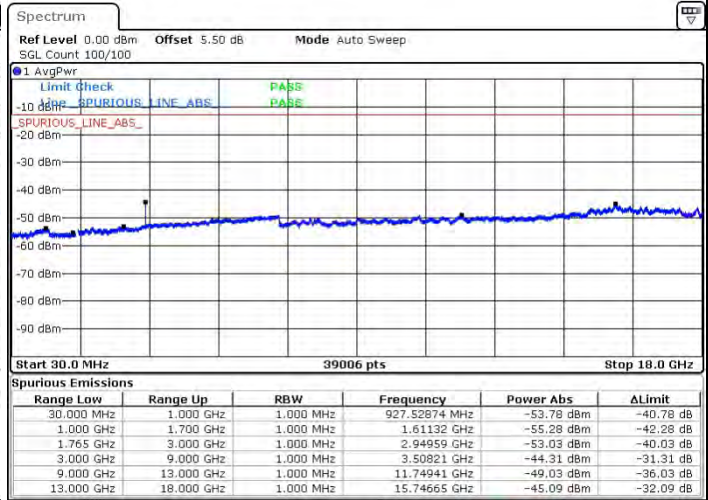
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 16 JAN 2015 09:49:07

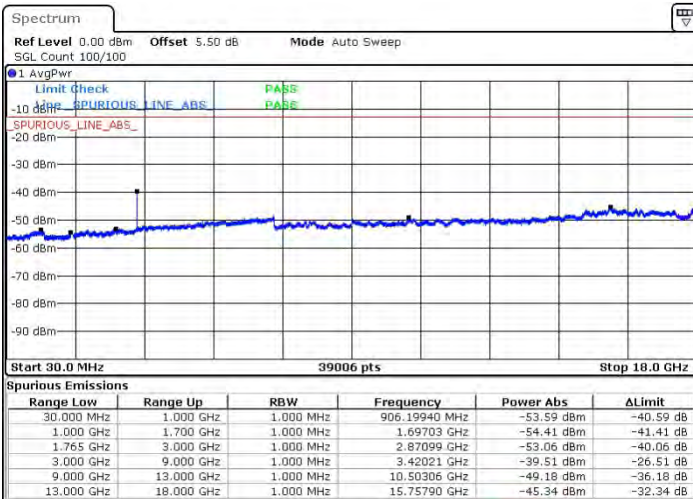
Highest Channel / 16QAM



Date: 16 JAN 2015 09:50:26

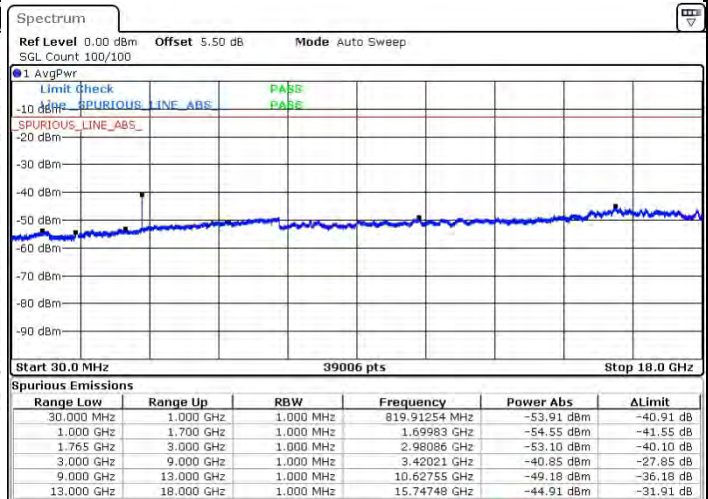
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 16 JAN 2015 09:52:27

Lowest Channel / 16QAM



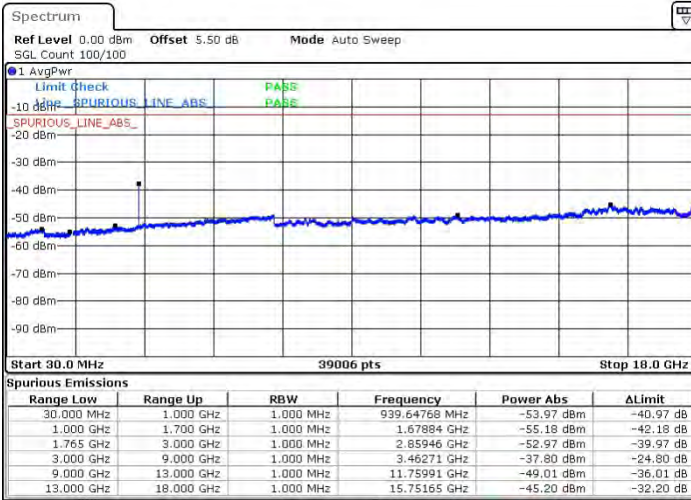
Date: 16 JAN 2015 09:53:46



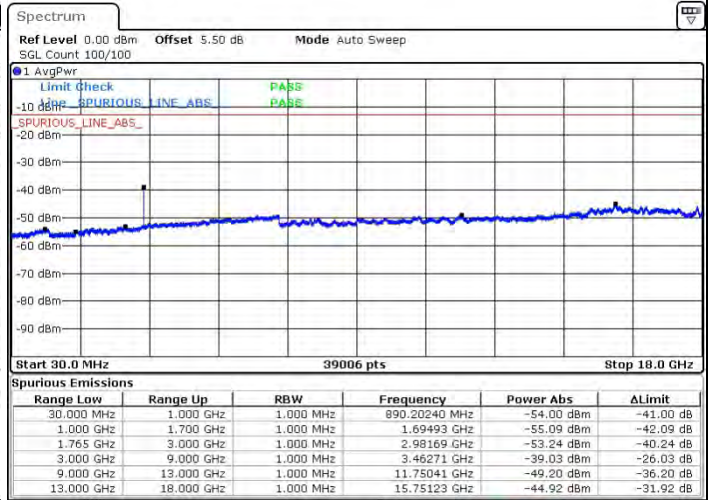
LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



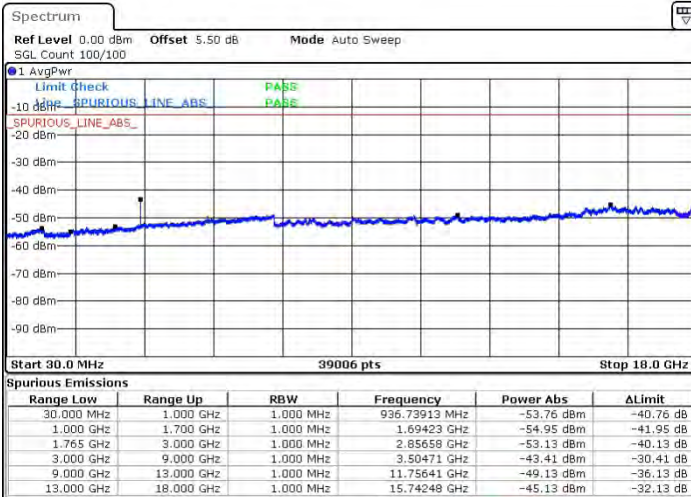
Date: 16 JAN 2015 09:55:48



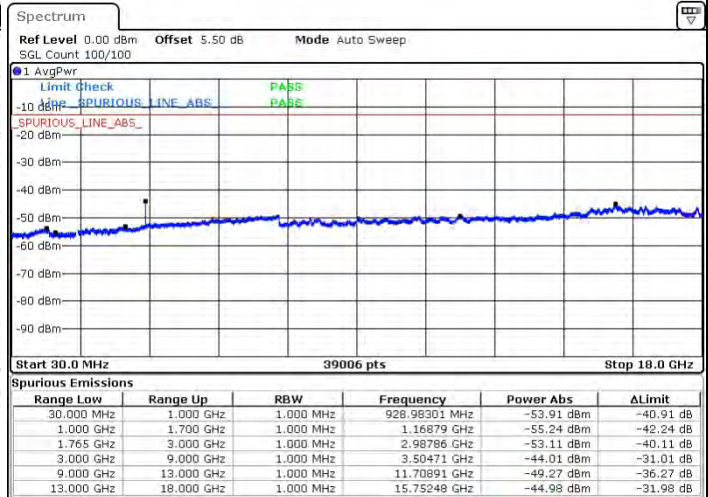
Date: 16 JAN 2015 09:57:06

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16 JAN 2015 09:59:08



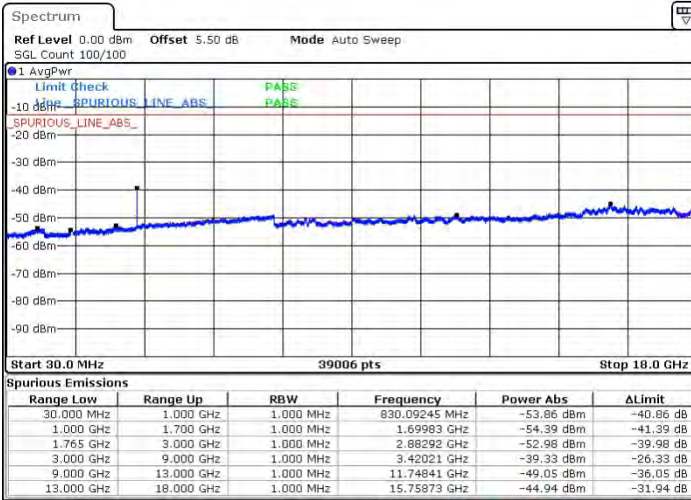
Date: 16 JAN 2015 10:00:26



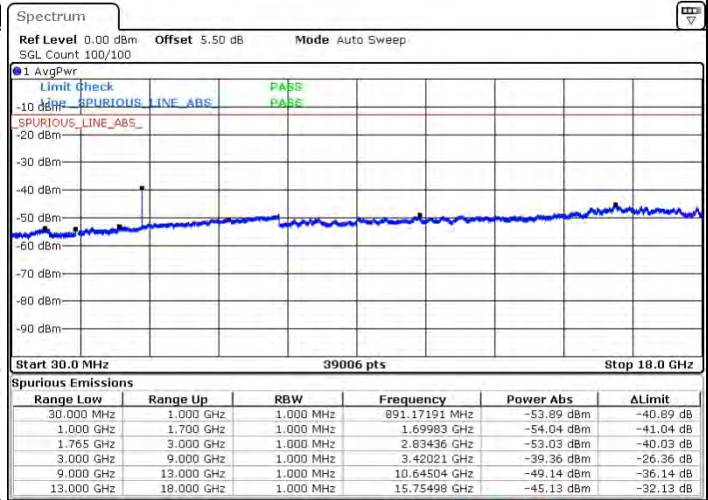
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



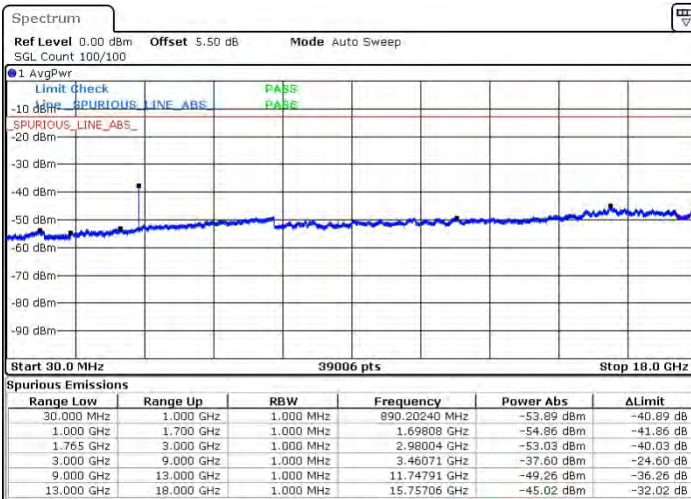
Date: 16 JAN 2015 10:02:28



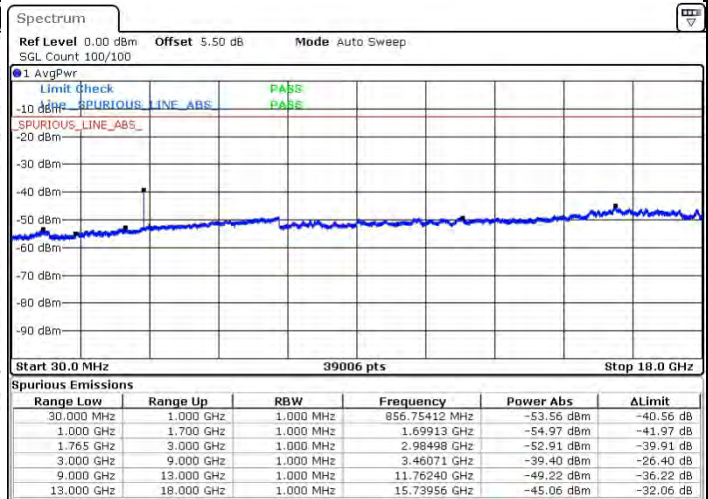
Date: 16 JAN 2015 10:03:46

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 16 JAN 2015 10:05:48

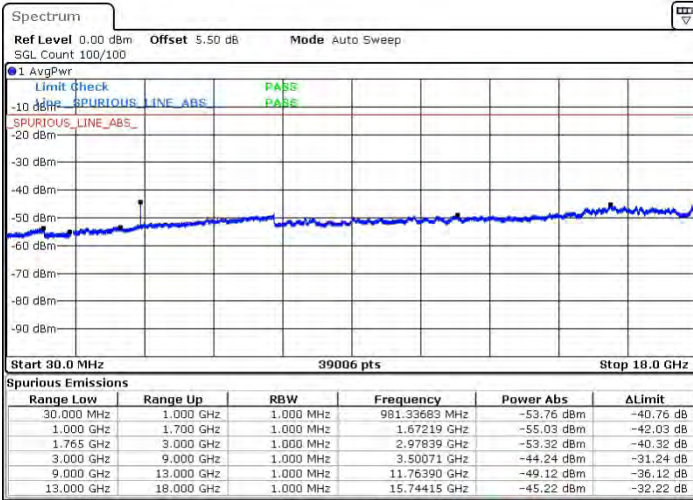


Date: 16 JAN 2015 10:07:07



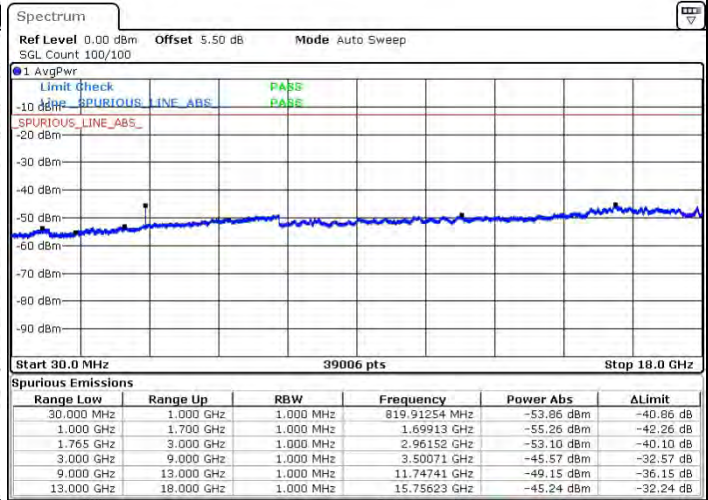
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 16 JAN 2015 10:09:08

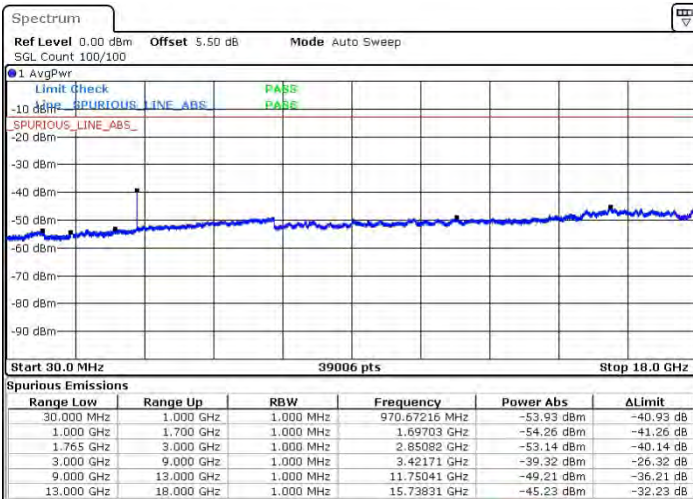
Highest Channel / 16QAM



Date: 16 JAN 2015 10:10:27

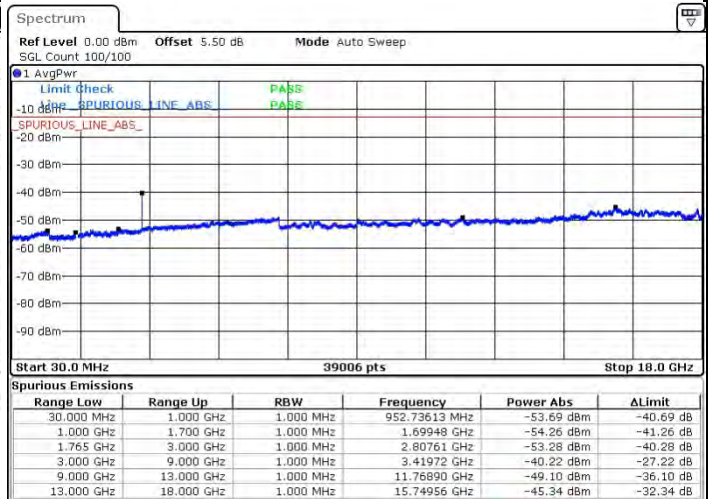
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 16 JAN 2015 10:12:29

Lowest Channel / 16QAM



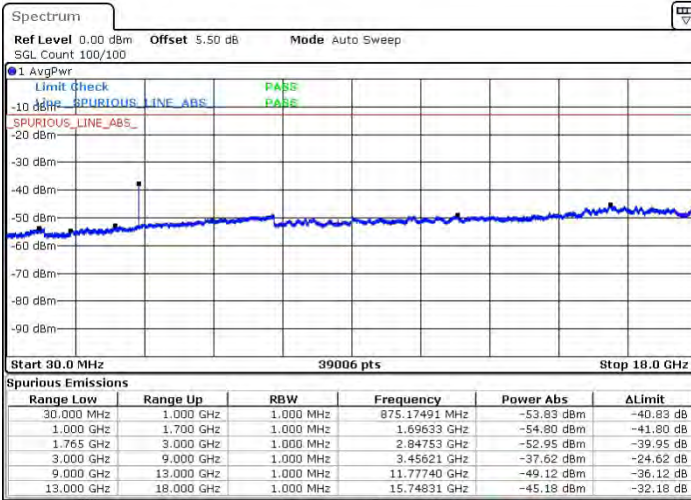
Date: 16 JAN 2015 10:13:47



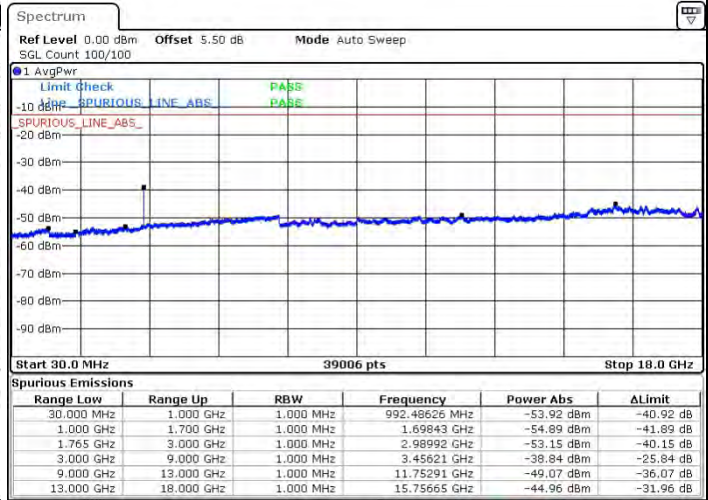
LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



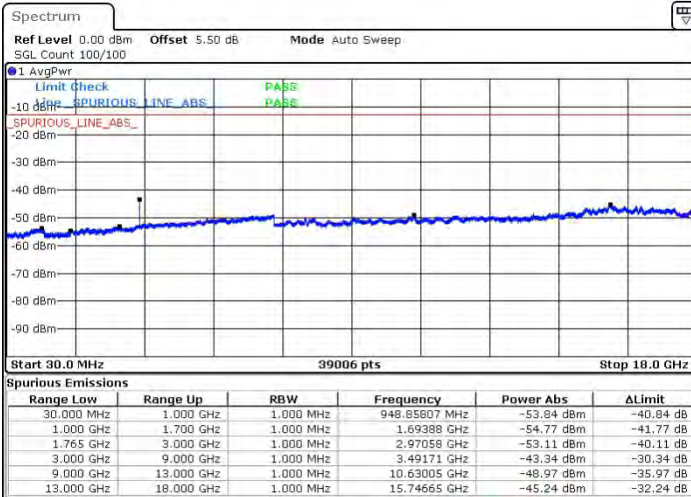
Date: 16 JAN 2015 10:15:49



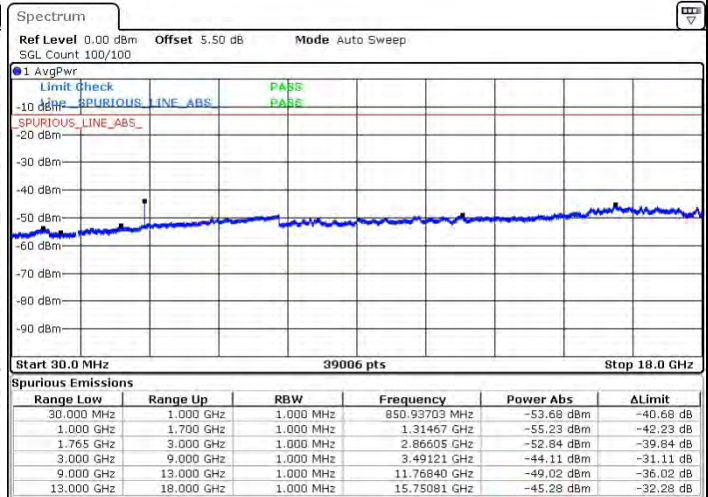
Date: 16 JAN 2015 10:17:07

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 16 JAN 2015 10:19:09



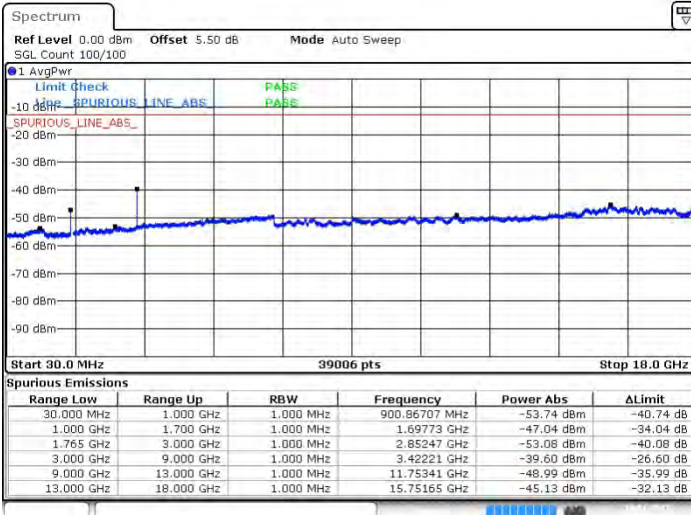
Date: 16 JAN 2015 10:20:28



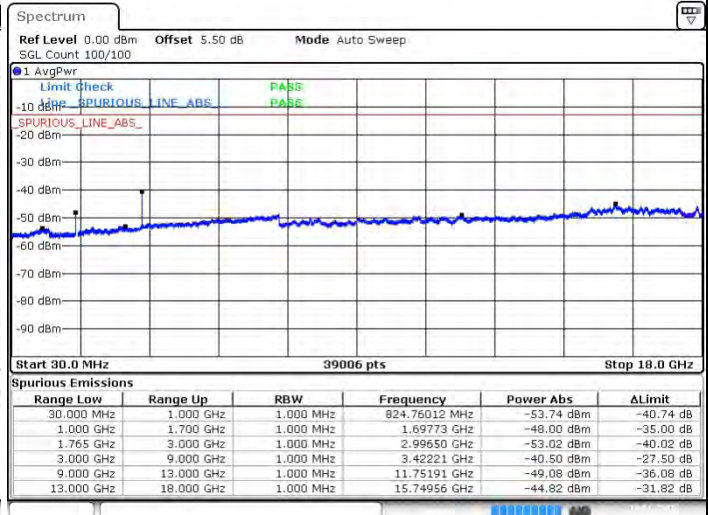
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



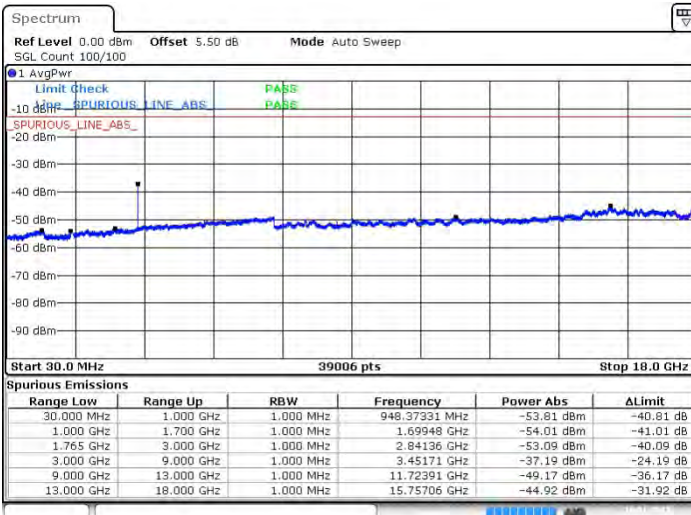
Date: 16 JAN 2015 10:22:29



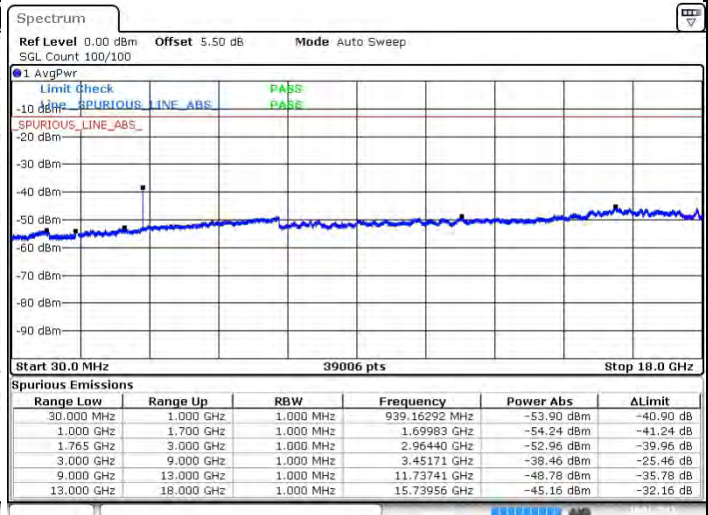
Date: 16 JAN 2015 10:23:48

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Date: 16 JAN 2015 10:25:49



Date: 16 JAN 2015 10:27:08