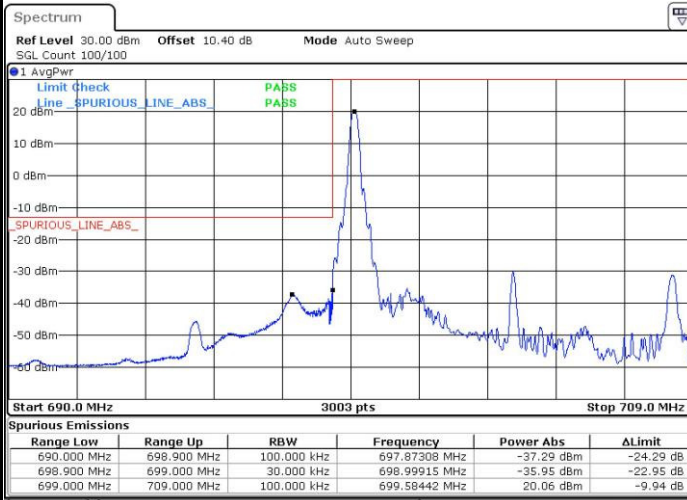




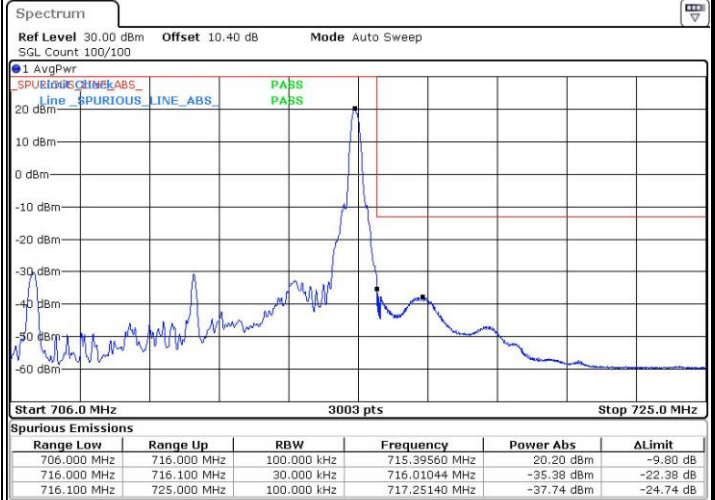
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



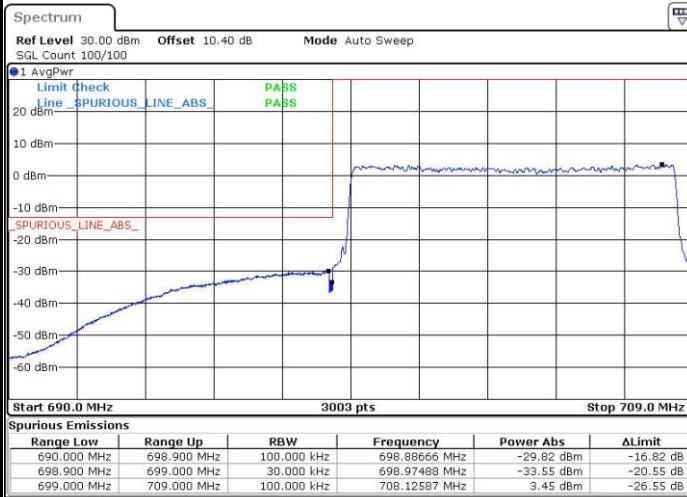
Date: 27.JUL.2016 00:15:06

Highest Band Edge / 1 RB



Date: 27.JUL.2016 00:33:07

Lowest Band Edge / Full RB



Date: 27.JUL.2016 00:11:57

Highest Band Edge / Full RB



Date: 27.JUL.2016 00:29:58

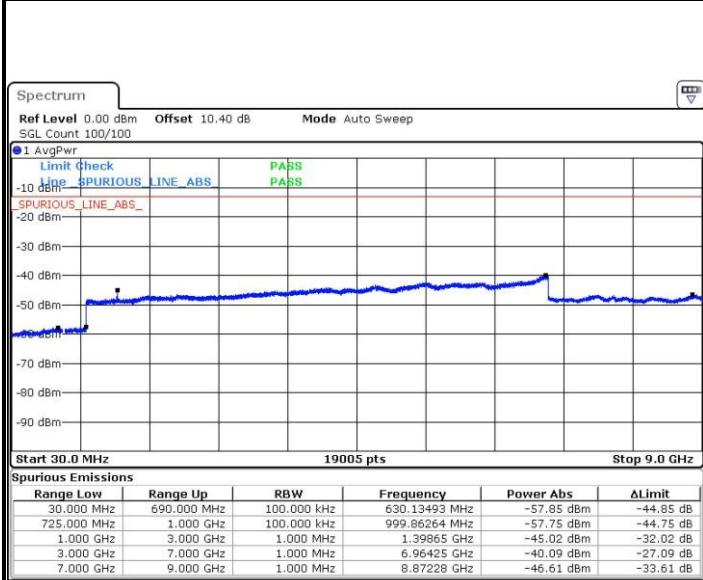


**Conducted Spurious Emission**



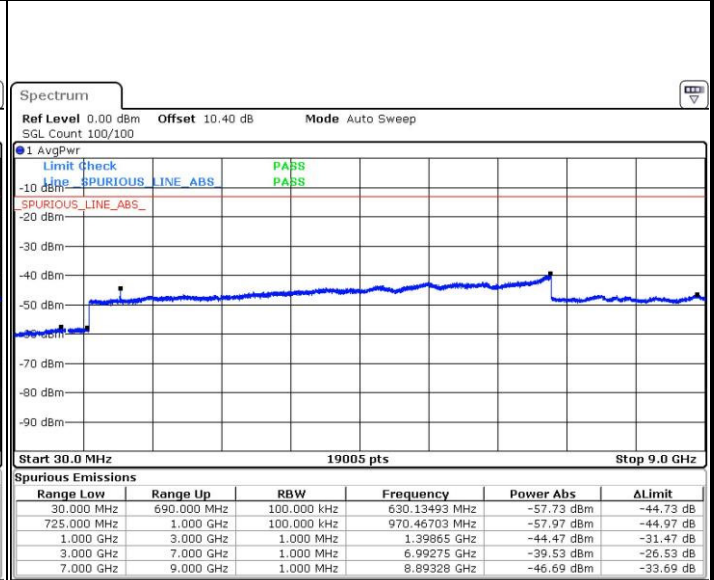
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



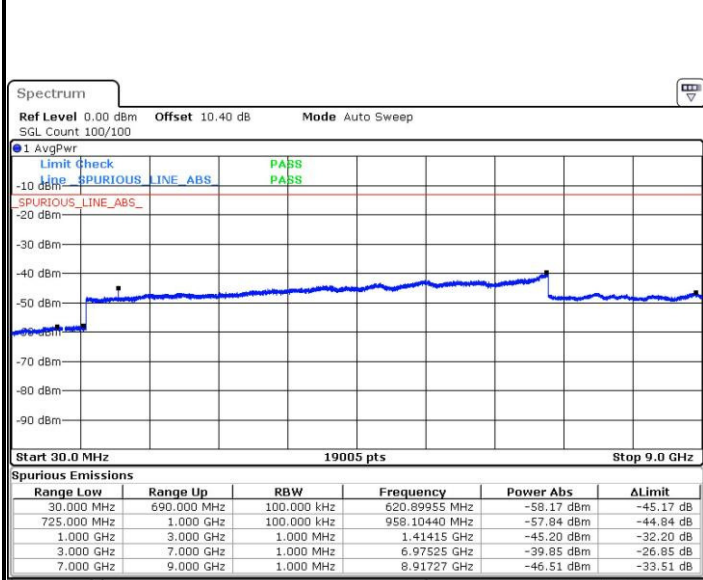
Date: 27.JUL.2016 00:57:31

Lowest Channel / 16QAM



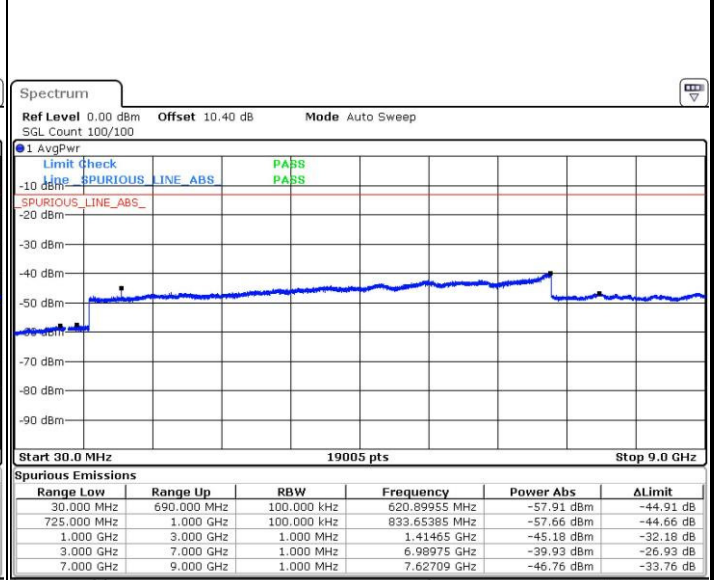
Date: 27.JUL.2016 00:58:28

Middle Channel / QPSK



Date: 27.JUL.2016 01:01:10

Middle Channel / 16QAM

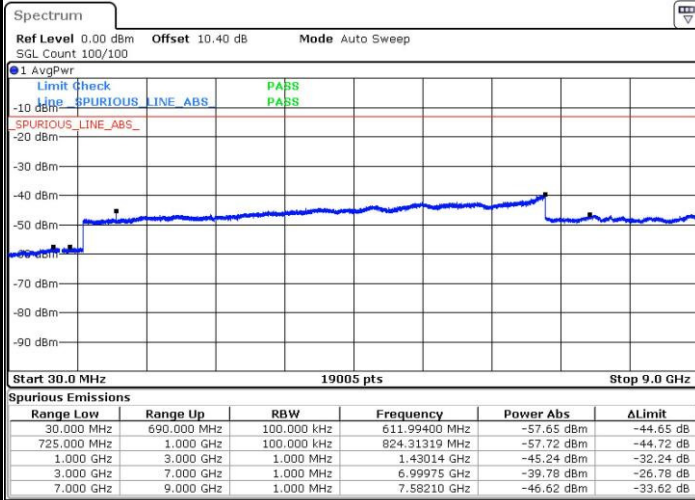


Date: 27.JUL.2016 01:00:13



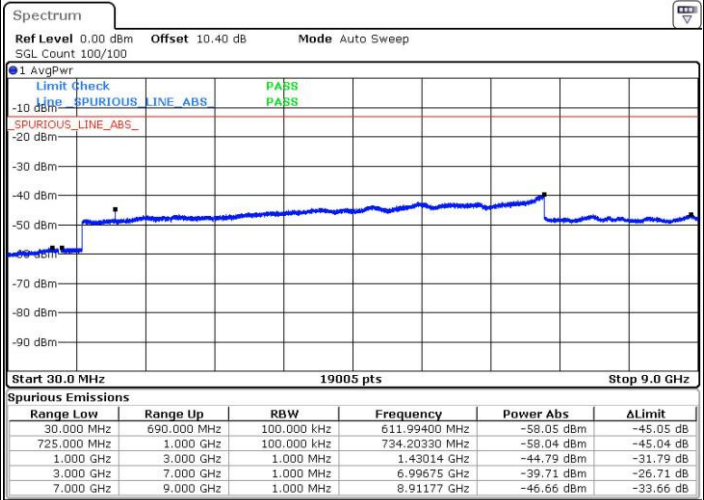
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 27.JUL.2016 01:15:32

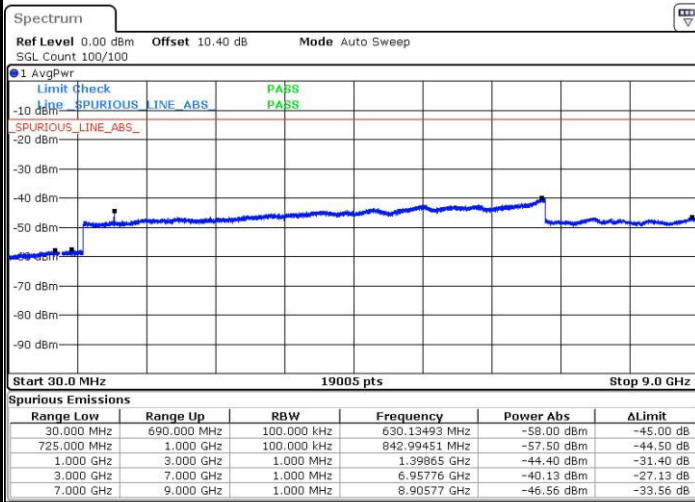
Highest Channel / 16QAM



Date: 27.JUL.2016 01:16:29

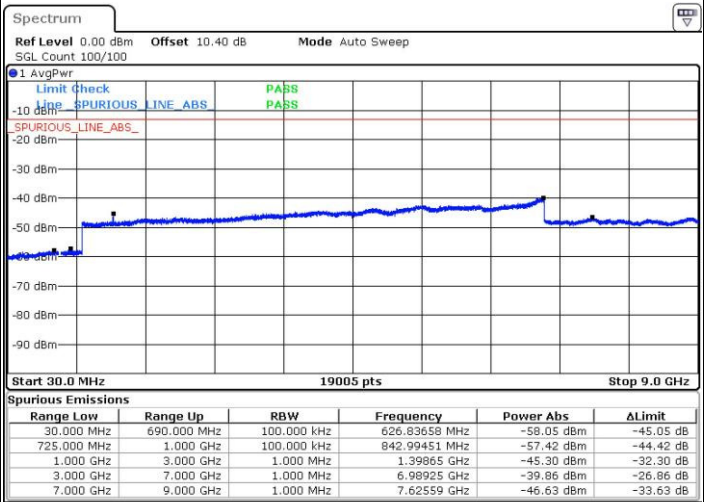
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 26.JUL.2016 23:09:29

Lowest Channel / 16QAM



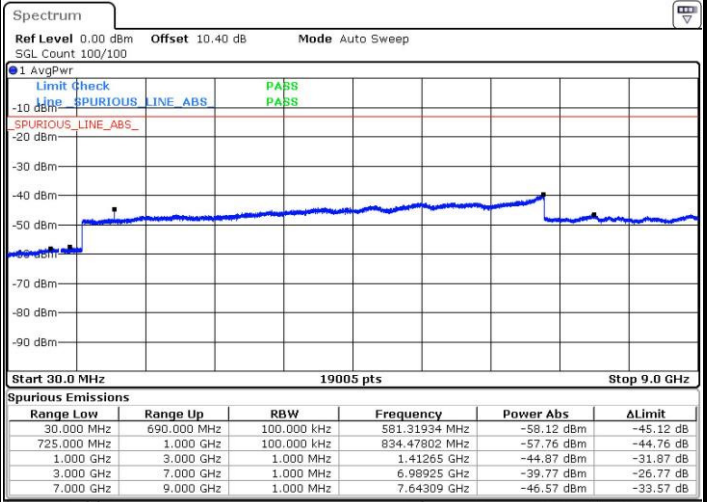
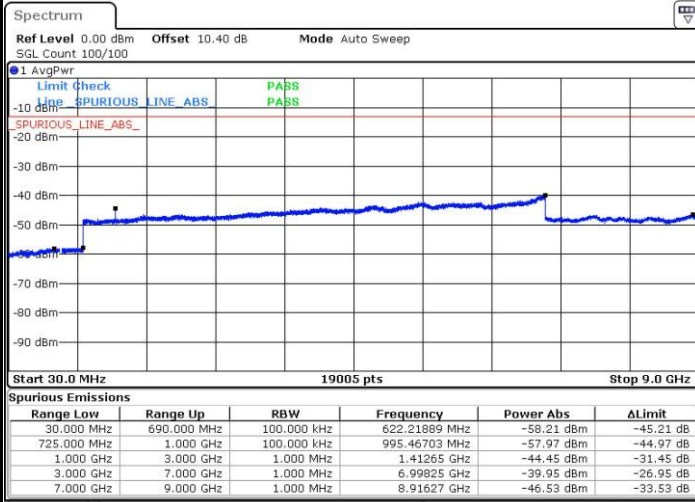
Date: 26.JUL.2016 23:10:27



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

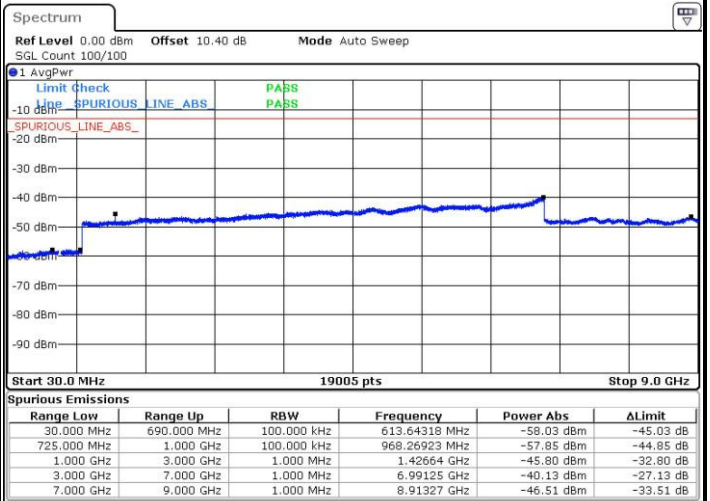
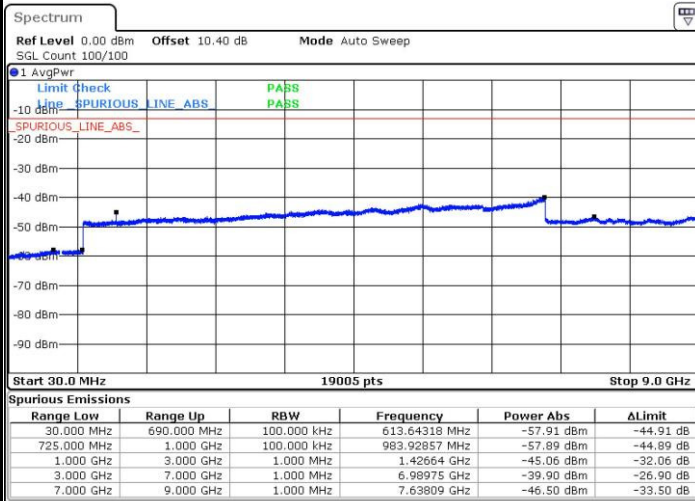


Date: 26.JUL.2016 23:13:09

Date: 26.JUL.2016 23:12:11

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 26.JUL.2016 23:27:31

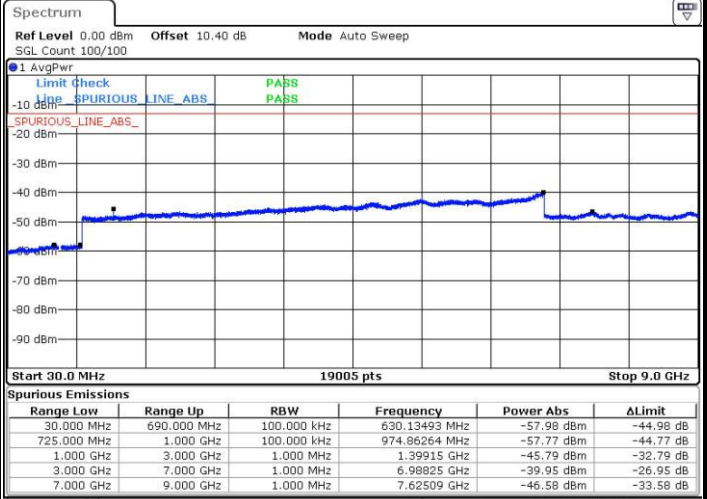
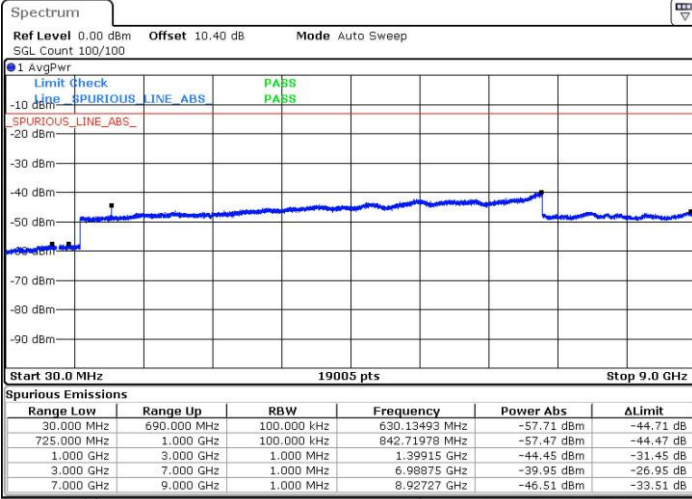
Date: 26.JUL.2016 23:28:28



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

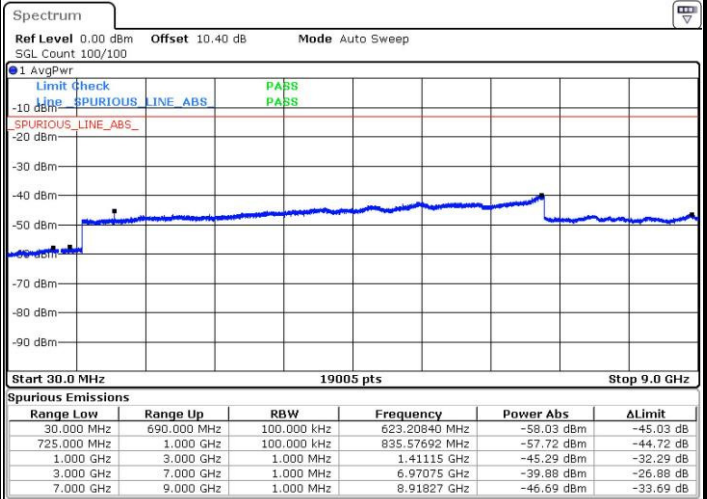
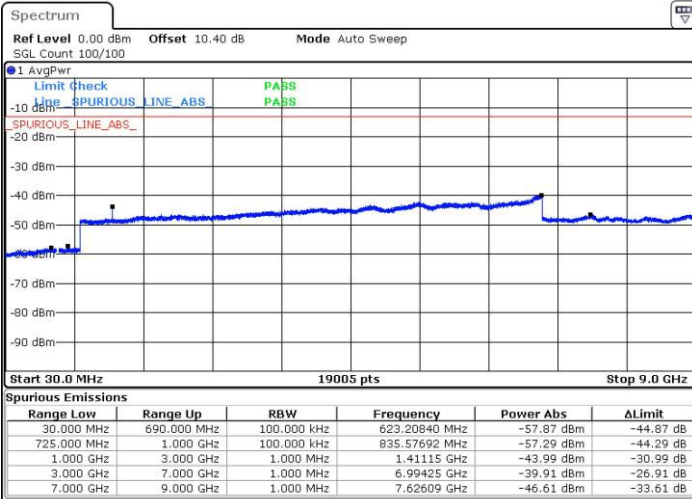


Date: 26.JUL.2016 23:42:51

Date: 26.JUL.2016 23:43:48

Middle Channel / QPSK

Middle Channel / 16QAM



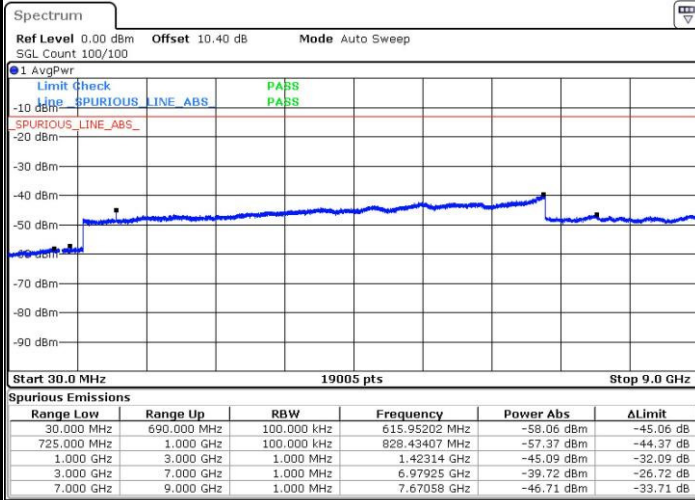
Date: 26.JUL.2016 23:46:30

Date: 26.JUL.2016 23:45:32



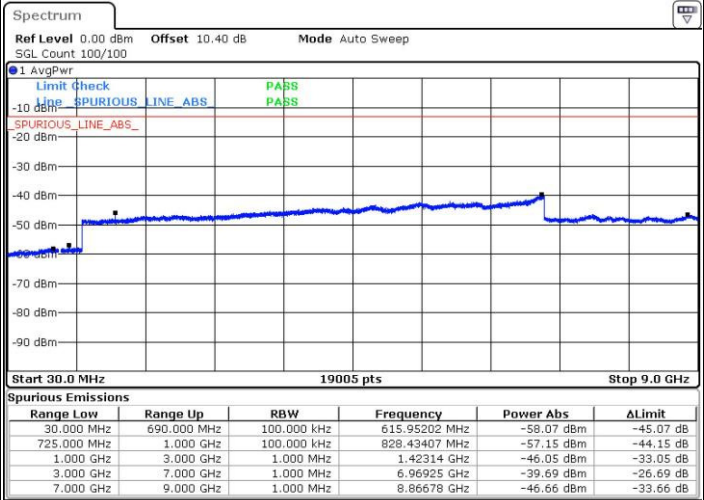
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 27.JUL.2016 00:01:49

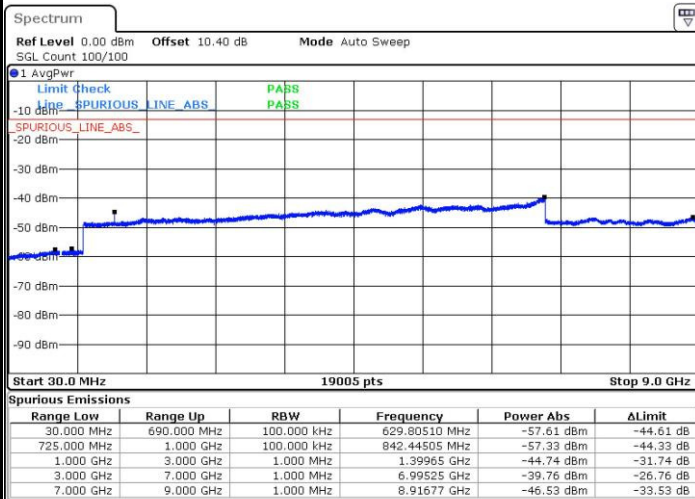
Highest Channel / 16QAM



Date: 27.JUL.2016 00:00:52

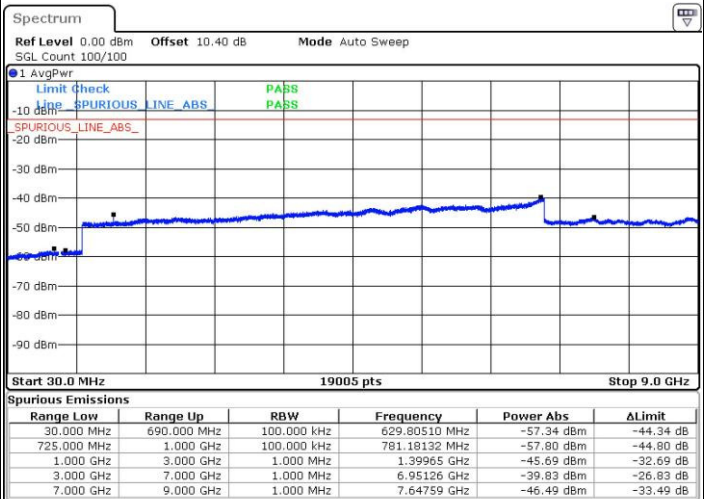
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 27.JUL.2016 00:19:12

Lowest Channel / 16QAM



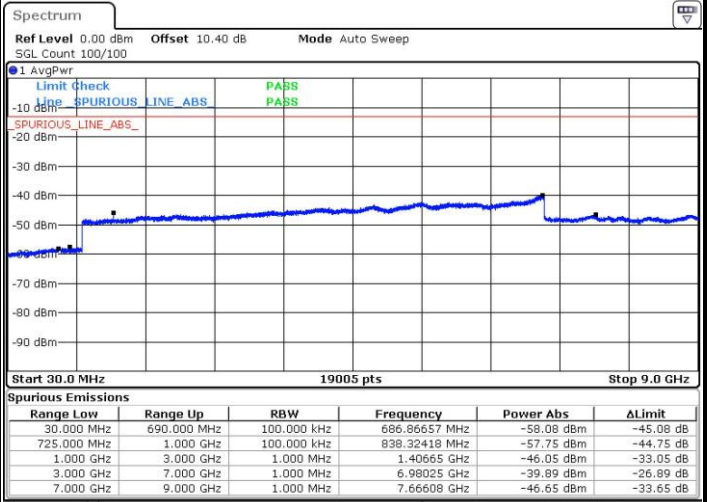
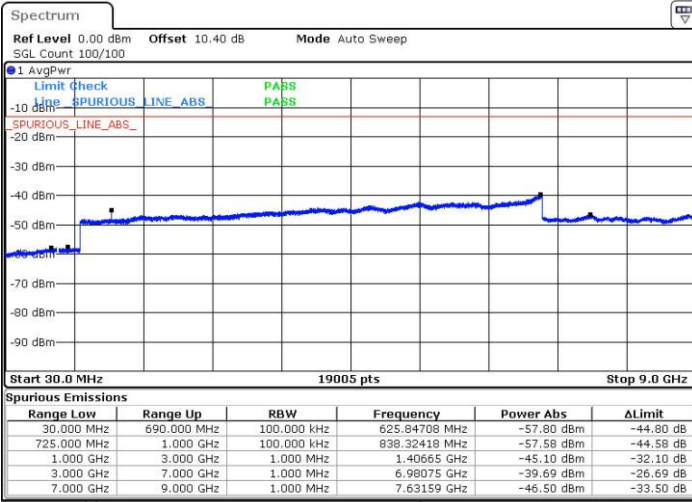
Date: 27.JUL.2016 00:20:10



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

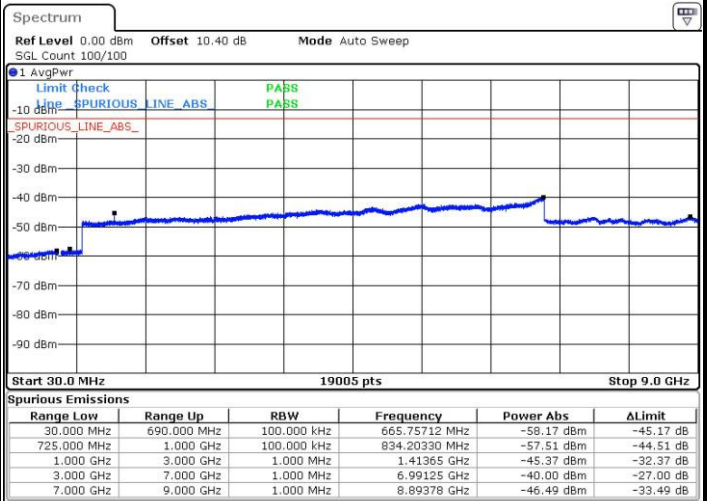
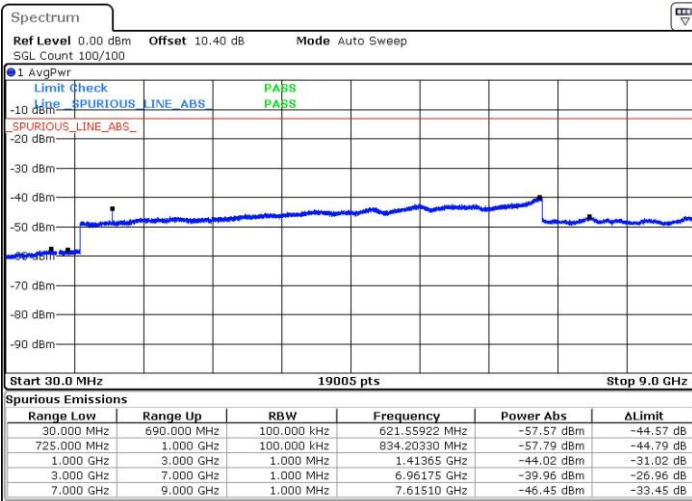


Date: 27.JUL.2016 00:22:51

Date: 27.JUL.2016 00:21:54

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27.JUL.2016 00:37:13

Date: 27.JUL.2016 00:38:11





### Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0122	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0147	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0139	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0014	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 17

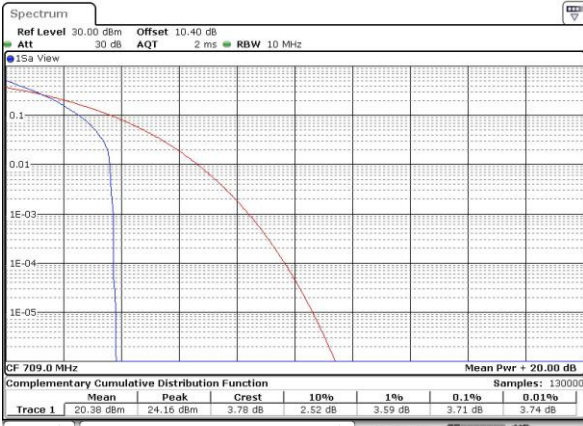
### Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.71	4.58	4.26	5.65	<b>PASS</b>
Middle CH	3.59	4.49	4.52	5.65	
Highest CH	3.83	4.58	4.49	5.65	



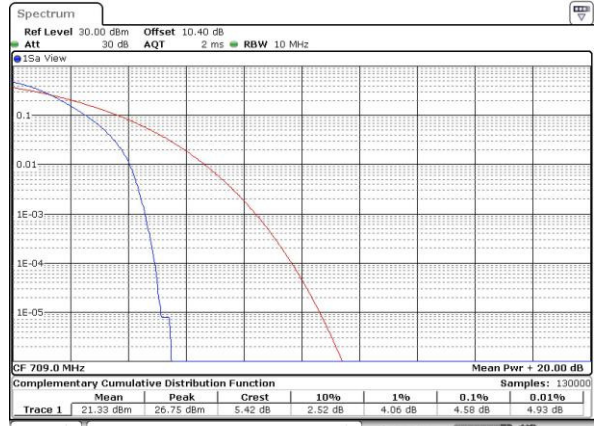
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



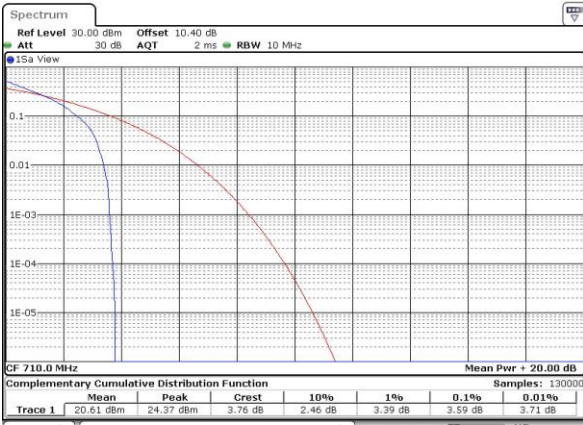
Date: 27\_JUL.2016 17:12:02

Lowest Channel / Full RB



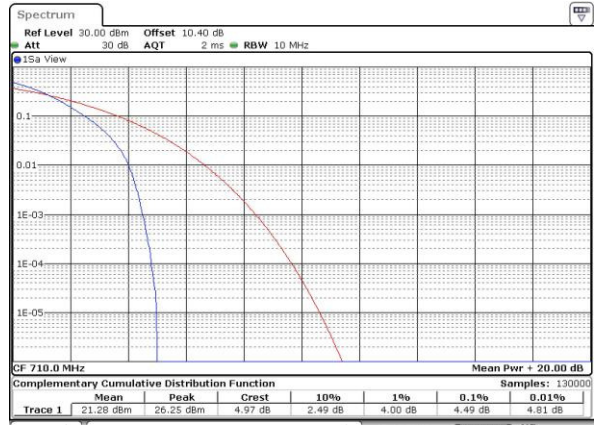
Date: 27\_JUL.2016 17:12:20

Middle Channel/ 1RB



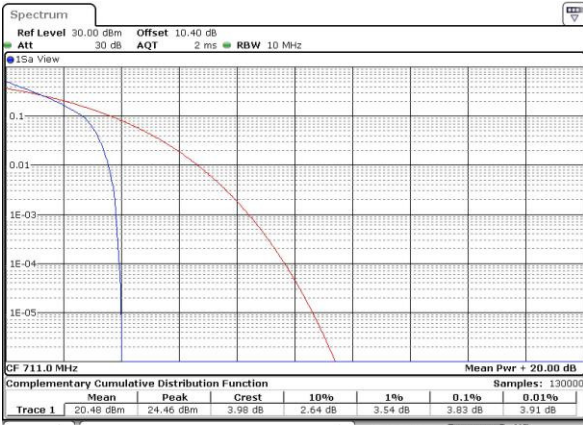
Date: 27\_JUL.2016 17:12:45

Middle Channel / Full RB



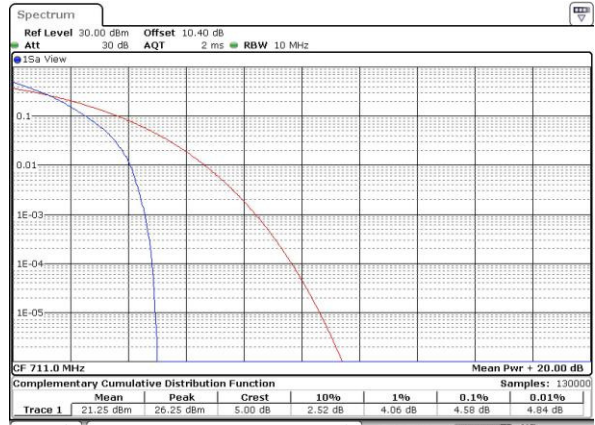
Date: 27\_JUL.2016 17:12:58

Highest Channel/ 1RB



Date: 27\_JUL.2016 17:13:34

Highest Channel / Full RB



Date: 27\_JUL.2016 17:14:01



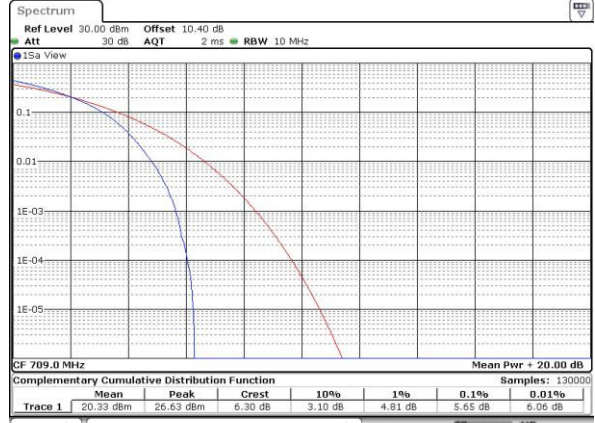
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 27\_JUL.2016 17:08:54

Lowest Channel / Full RB



Date: 27\_JUL.2016 17:09:06

Middle Channel / 1RB



Date: 27\_JUL.2016 17:09:25

Middle Channel / Full RB



Date: 27\_JUL.2016 17:09:36

Highest Channel / 1RB



Date: 27\_JUL.2016 17:09:47

Highest Channel / Full RB



Date: 27\_JUL.2016 17:11:44



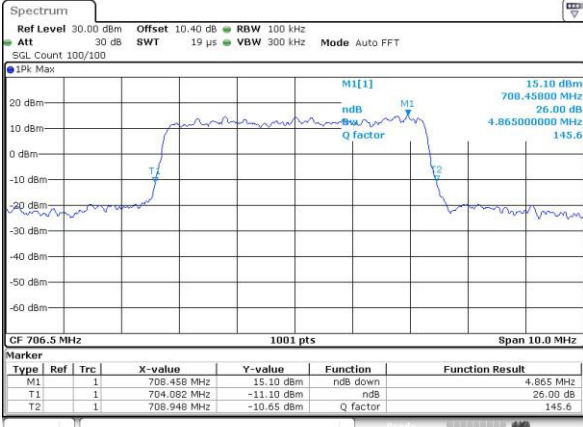
**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.865	4.915	9.75	9.69	-	-	-	-
Middle CH	-	-	-	-	4.895	4.875	9.71	9.85	-	-	-	-
Highest CH	-	-	-	-	4.805	4.855	9.81	9.67	-	-	-	-



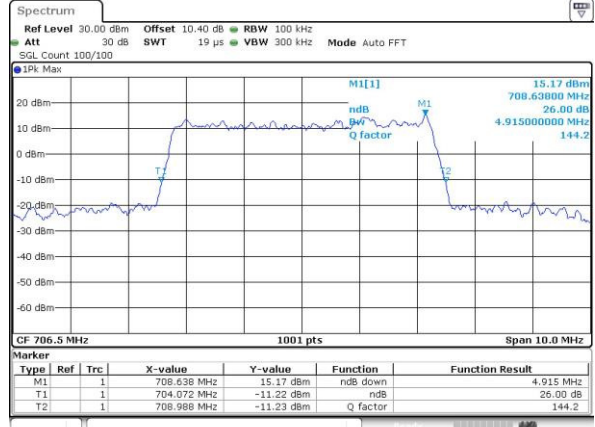
LTE Band 17

Lowest Channel / 5MHz / QPSK



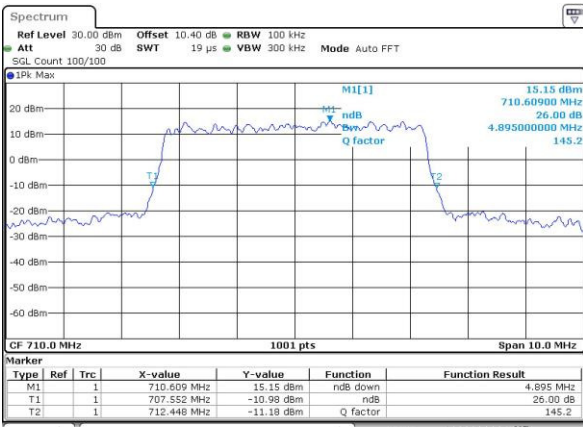
Date: 27\_JUL\_2016 16:27:11

Lowest Channel / 5MHz / 16QAM



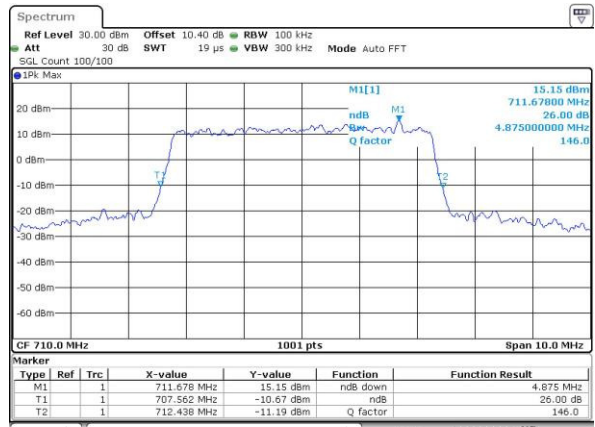
Date: 27\_JUL\_2016 16:27:22

Middle Channel / 5MHz / QPSK



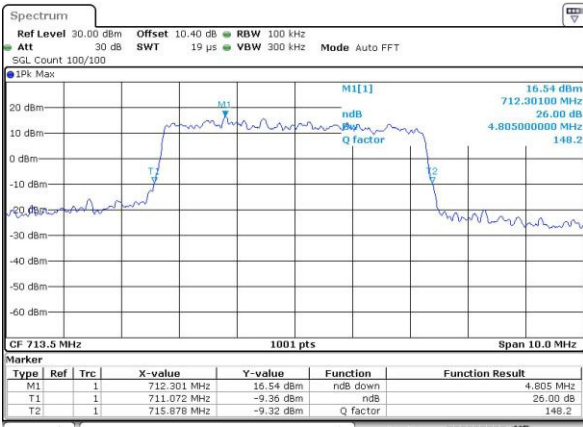
Date: 27\_JUL\_2016 16:34:30

Middle Channel / 5MHz / 16QAM



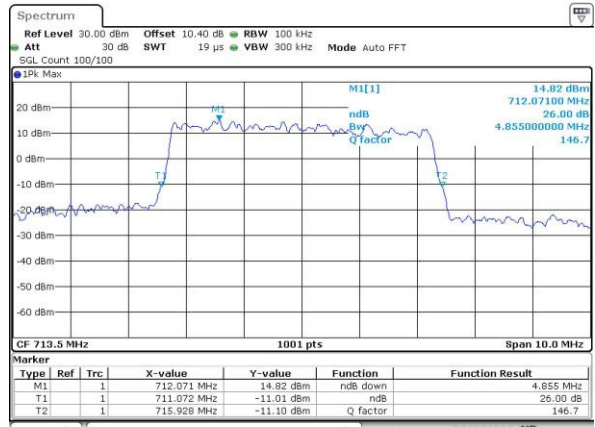
Date: 27\_JUL\_2016 16:34:41

Highest Channel / 5MHz / QPSK



Date: 27\_JUL\_2016 16:37:10

Highest Channel / 5MHz / 16QAM

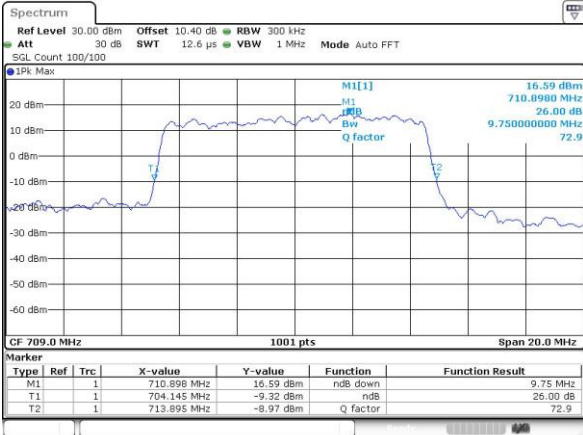


Date: 27\_JUL\_2016 16:37:22

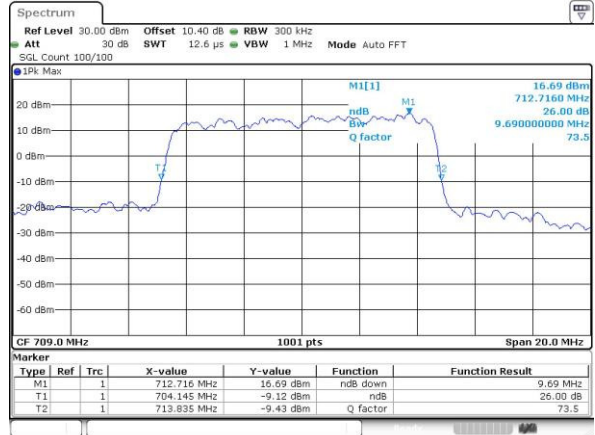


LTE Band 17

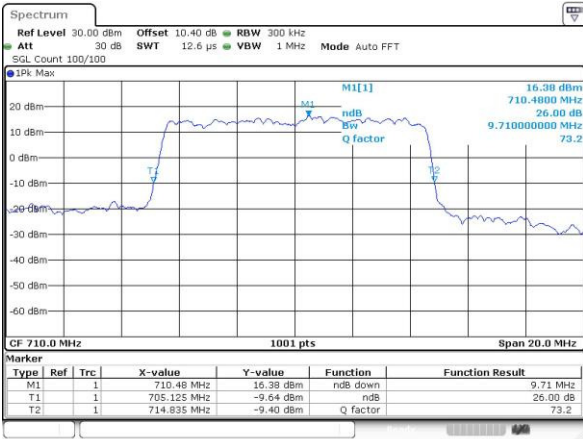
Lowest Channel / 10MHz / QPSK



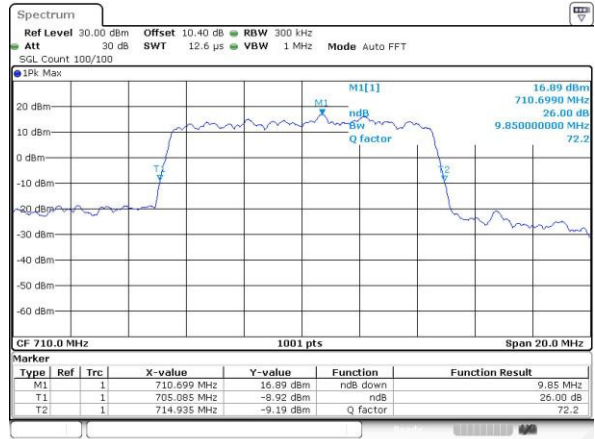
Lowest Channel / 10MHz / 16QAM



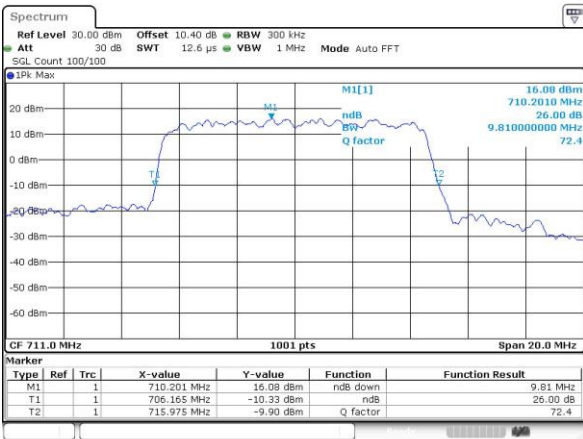
Middle Channel / 10MHz / QPSK



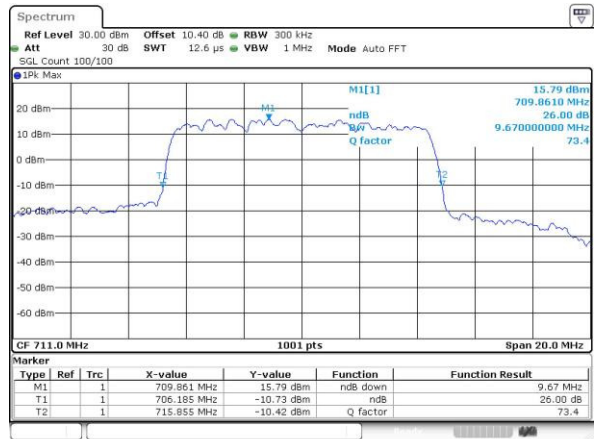
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM





### Occupied Bandwidth

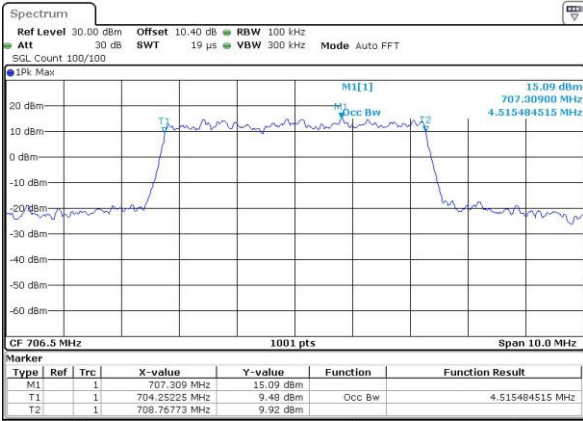
Mode	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.52	4.49	8.99	8.99	-	-	-	-
Middle CH	-	-	-	-	4.49	4.47	8.97	9.01	-	-	-	-
Highest CH	-	-	-	-	4.5	4.46	8.95	9.01	-	-	-	-





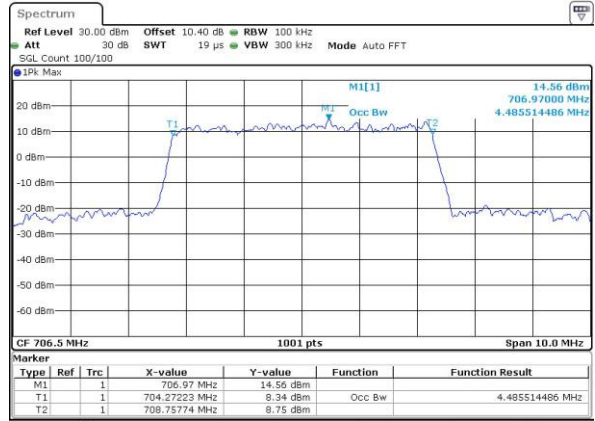
LTE Band 17

Lowest Channel / 5MHz / QPSK



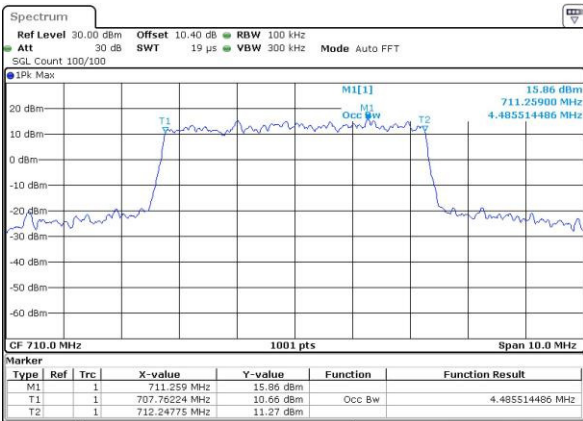
Date: 27\_JUL\_2016 16:26:47

Lowest Channel / 5MHz / 16QAM



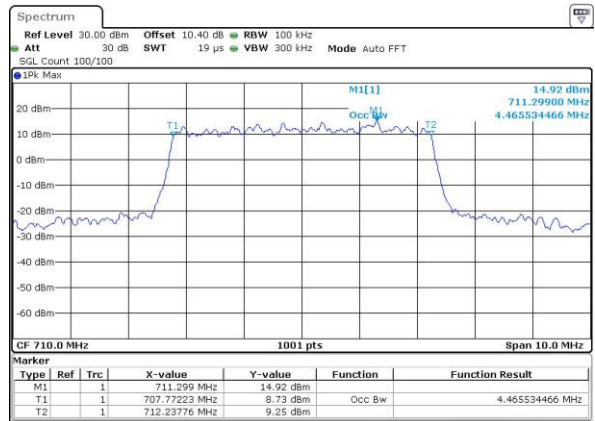
Date: 27\_JUL\_2016 16:26:59

Middle Channel / 5MHz / QPSK



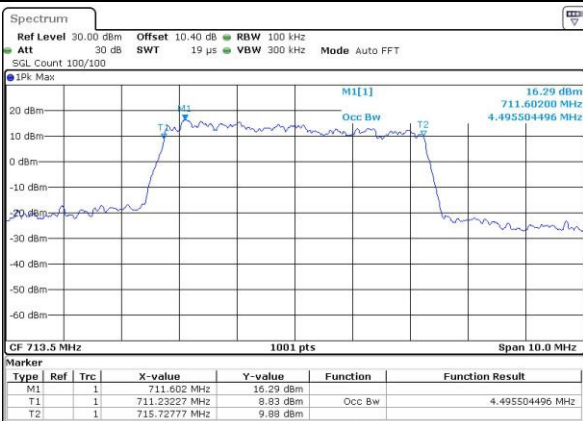
Date: 27\_JUL\_2016 16:34:06

Middle Channel / 5MHz / 16QAM



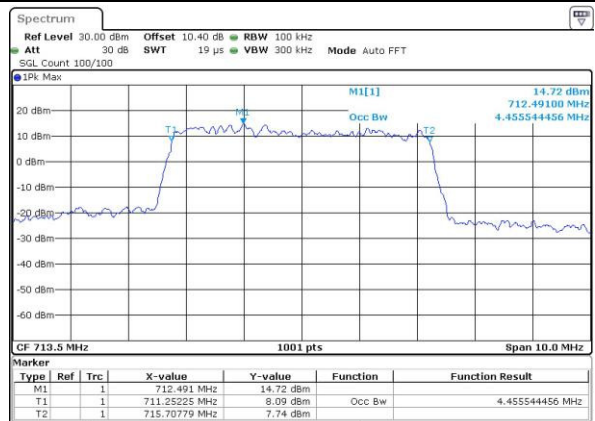
Date: 27\_JUL\_2016 16:34:18

Highest Channel / 5MHz / QPSK



Date: 27\_JUL\_2016 16:36:47

Highest Channel / 5MHz / 16QAM

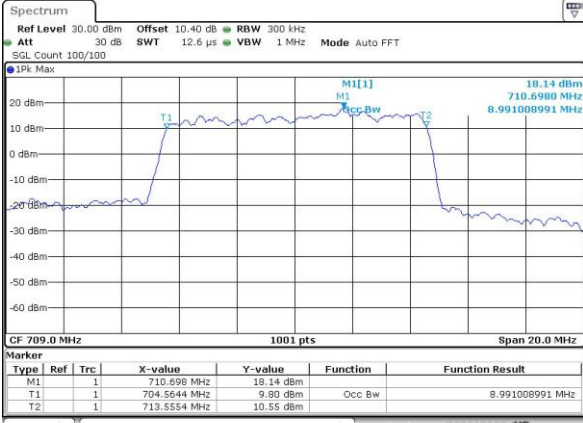


Date: 27\_JUL\_2016 16:36:58



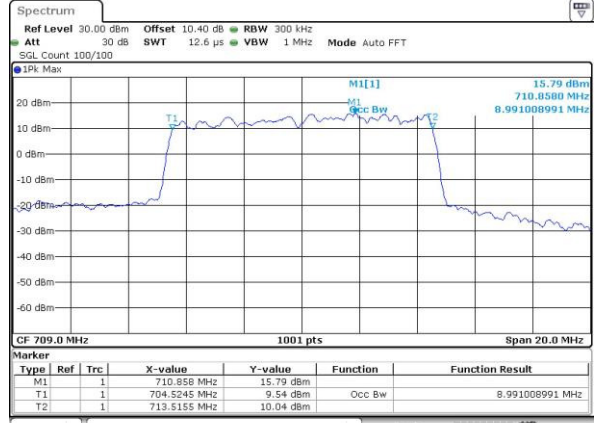
LTE Band 17

Lowest Channel / 10MHz / QPSK



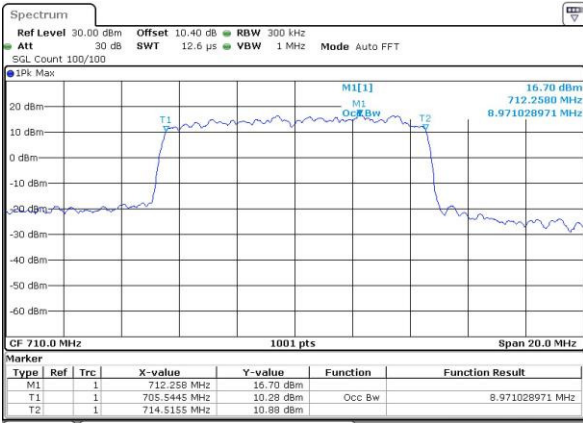
Date: 27\_JUL\_2016 16:49:59

Lowest Channel / 10MHz / 16QAM



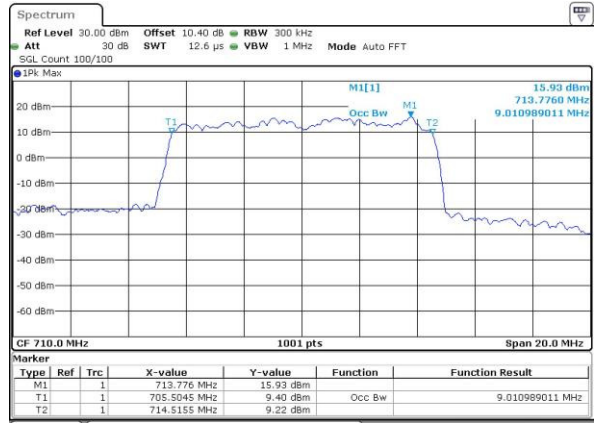
Date: 27\_JUL\_2016 16:50:11

Middle Channel / 10MHz / QPSK



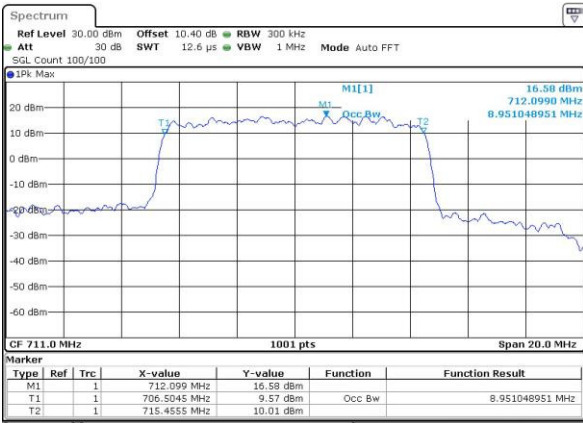
Date: 27\_JUL\_2016 16:57:17

Middle Channel / 10MHz / 16QAM



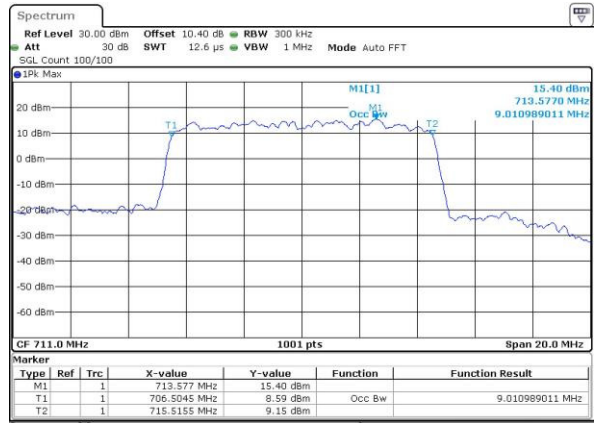
Date: 27\_JUL\_2016 16:57:29

Highest Channel / 10MHz / QPSK



Date: 27\_JUL\_2016 16:59:57

Highest Channel / 10MHz / 16QAM



Date: 27\_JUL\_2016 17:00:09

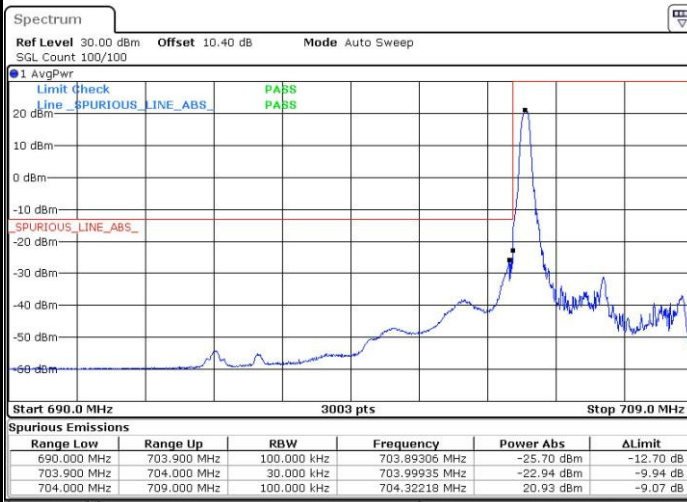


**Conducted Band Edge**

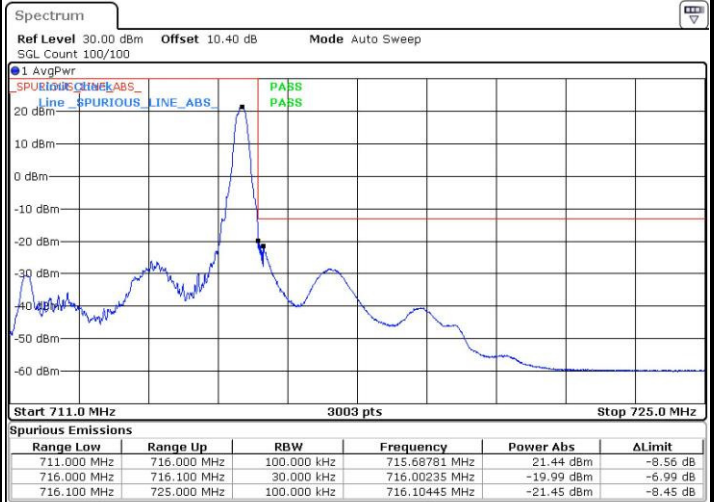


LTE Band 17 / 5MHz / QPSK

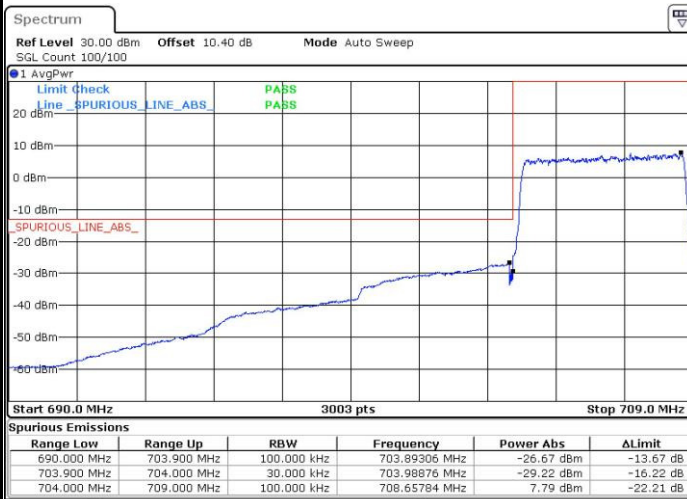
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



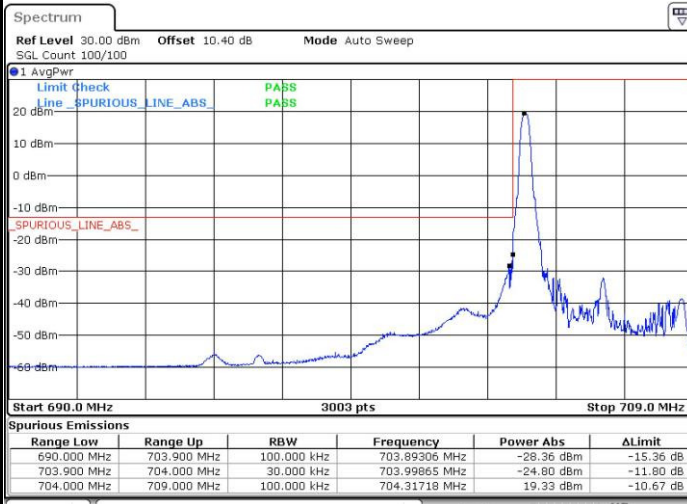
Highest Band Edge / Full RB





LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



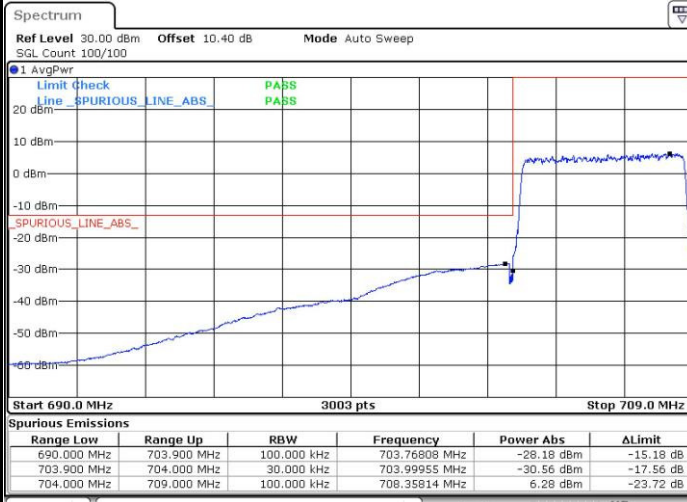
Date: 27.JUL.2016 16:29:42

Highest Band Edge / 1 RB



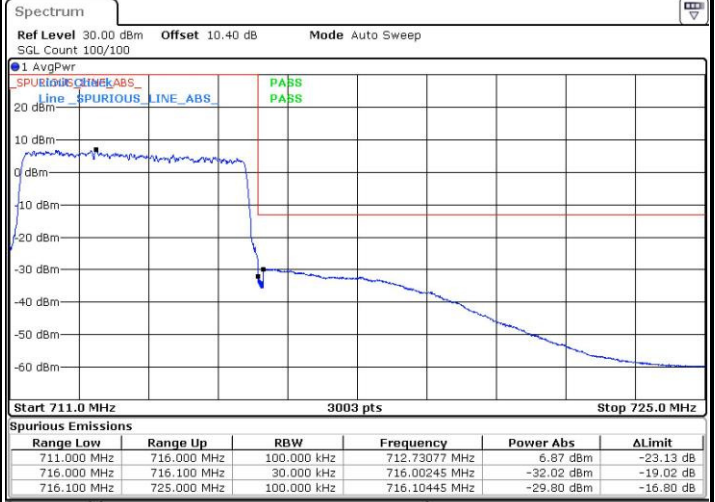
Date: 27.JUL.2016 16:39:41

Lowest Band Edge / Full RB



Date: 27.JUL.2016 16:32:01

Highest Band Edge / Full RB

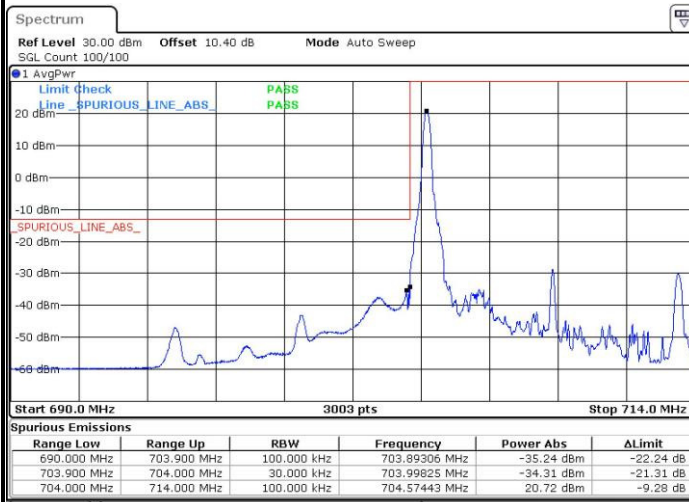


Date: 27.JUL.2016 16:42:00



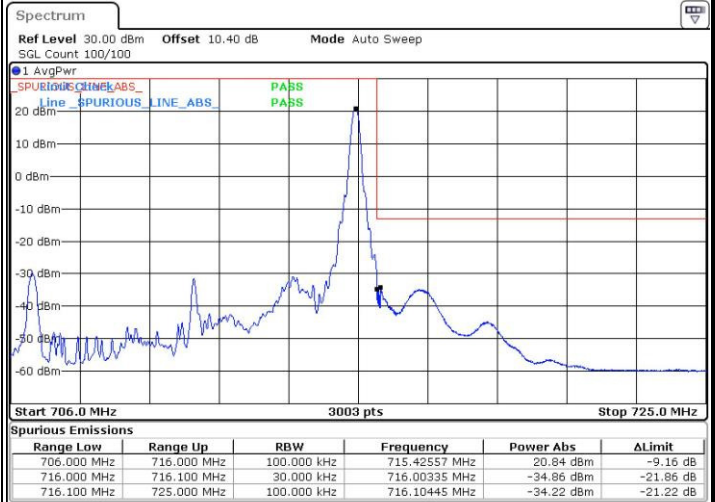
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



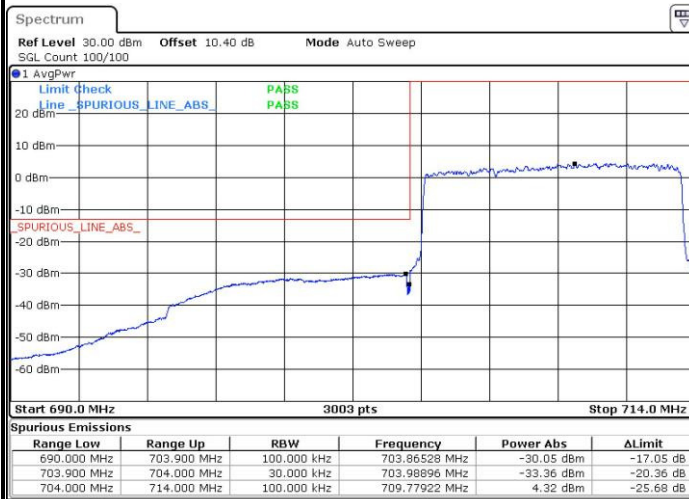
Date: 27.JUL.2016 16:51:44

Highest Band Edge / 1 RB



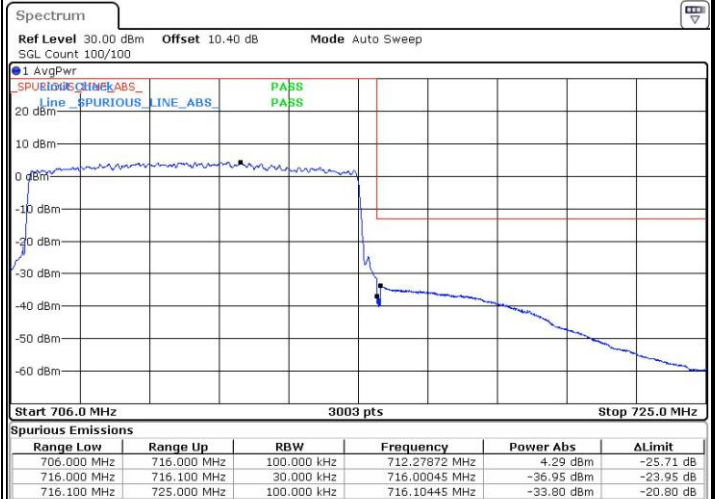
Date: 27.JUL.2016 17:01:42

Lowest Band Edge / Full RB



Date: 27.JUL.2016 16:54:03

Highest Band Edge / Full RB

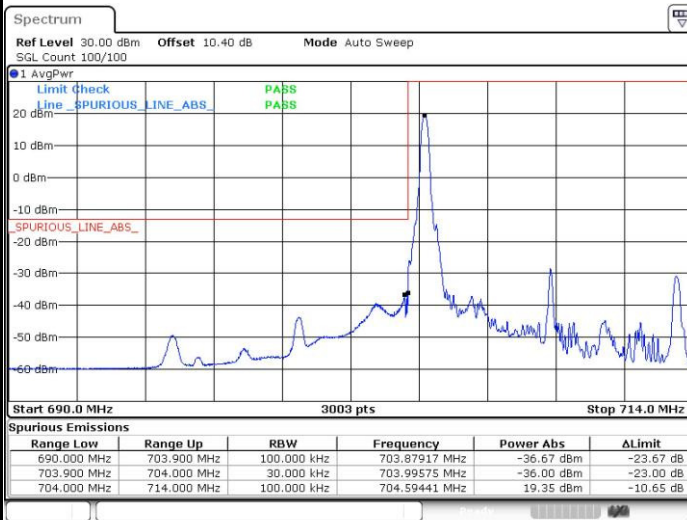


Date: 27.JUL.2016 17:04:01



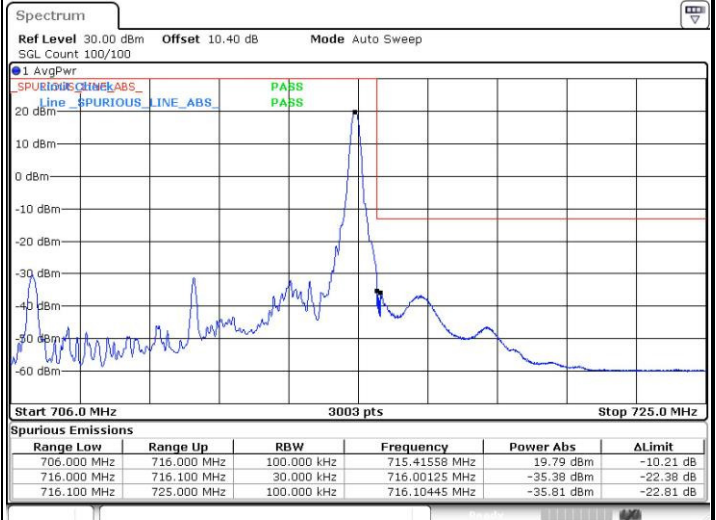
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



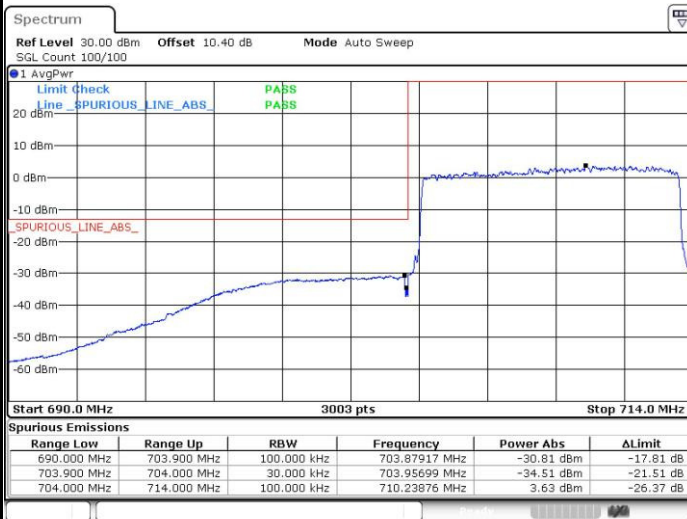
Date: 27.JUL.2016 16:52:53

Highest Band Edge / 1 RB



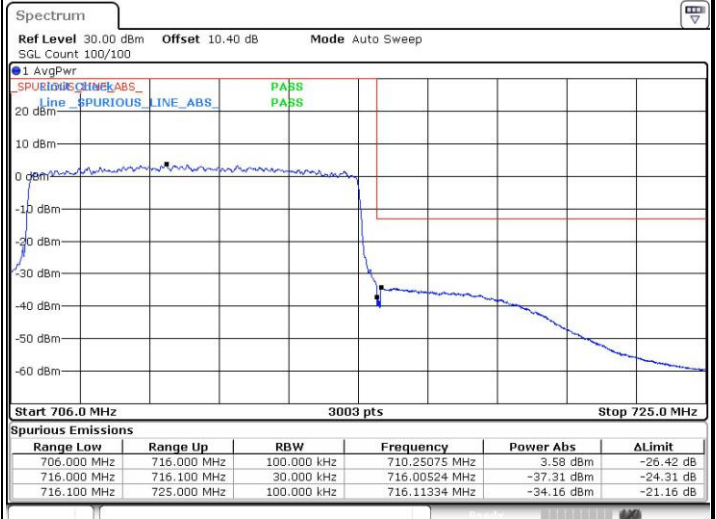
Date: 27.JUL.2016 17:02:51

Lowest Band Edge / Full RB



Date: 27.JUL.2016 16:55:12

Highest Band Edge / Full RB



Date: 27.JUL.2016 17:05:10



**Conducted Spurious Emission**