

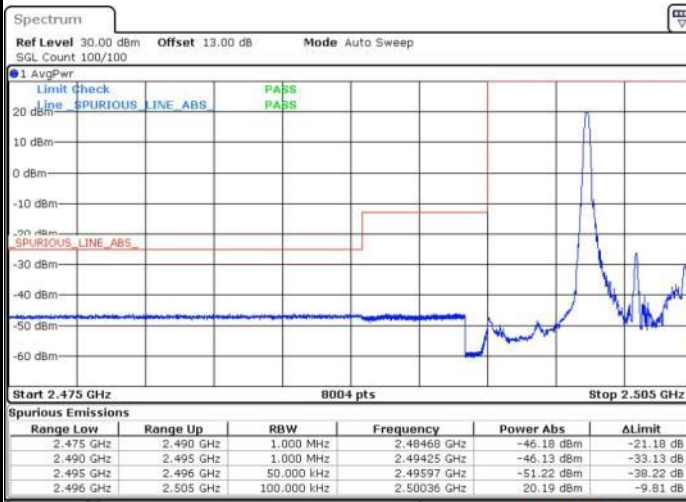


Conducted Band Edge



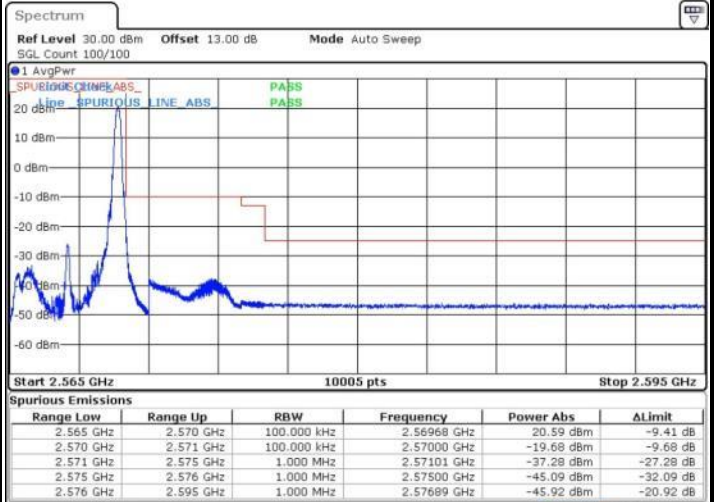
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



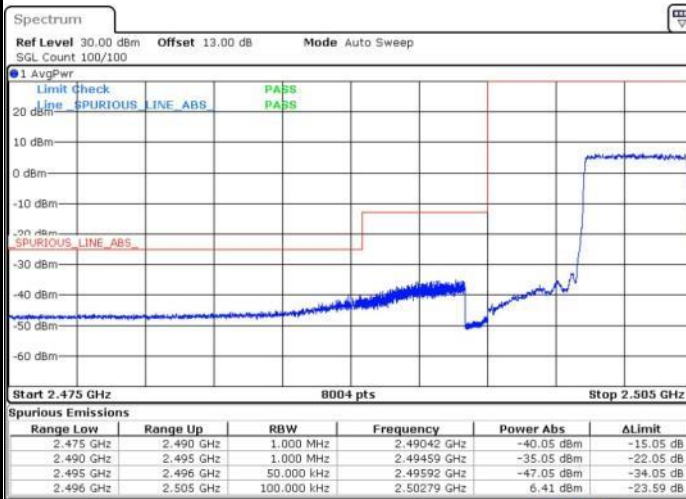
Date: 10 AUG 2015 11:09:23

Highest Band Edge / 1 RB



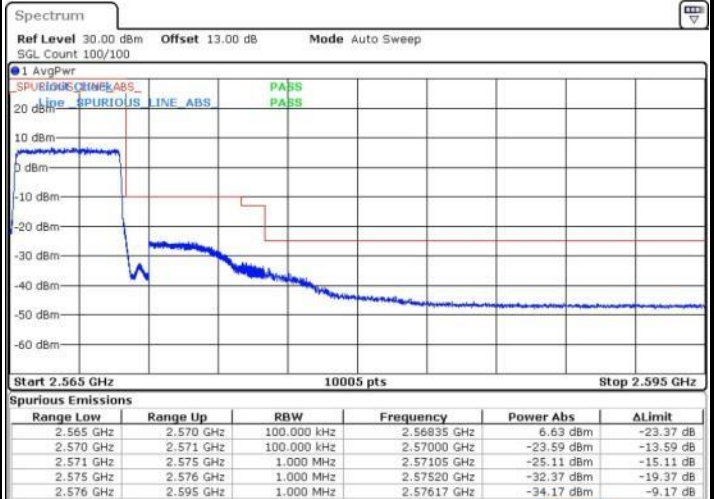
Date: 10 AUG 2015 11:19:37

Lowest Band Edge / Full RB



Date: 10 AUG 2015 11:11:50

Highest Band Edge / Full RB

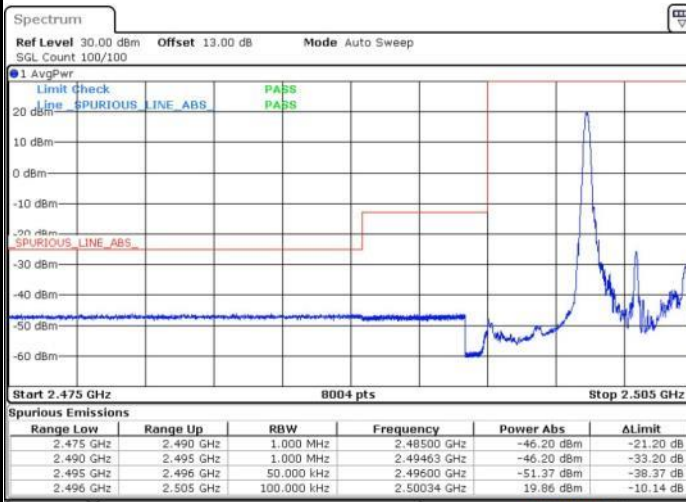


Date: 10 AUG 2015 21:01:58



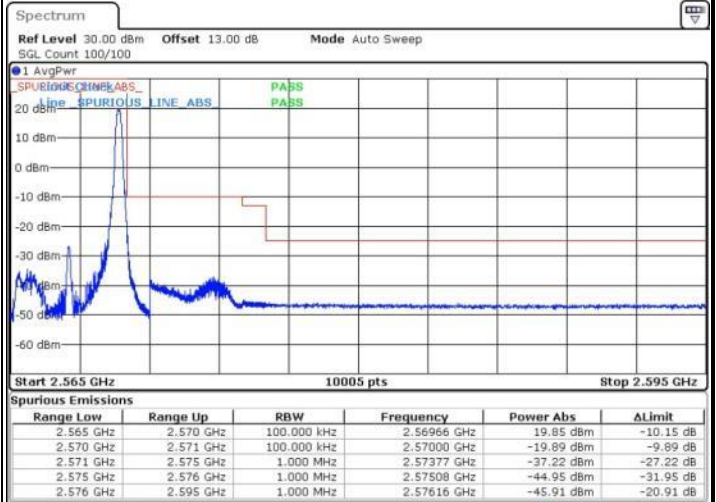
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



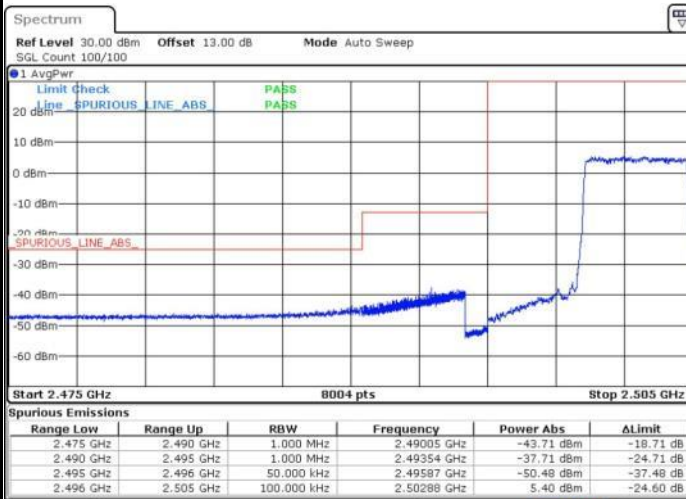
Date: 10 AUG 2015 11:10:36

Highest Band Edge / 1 RB



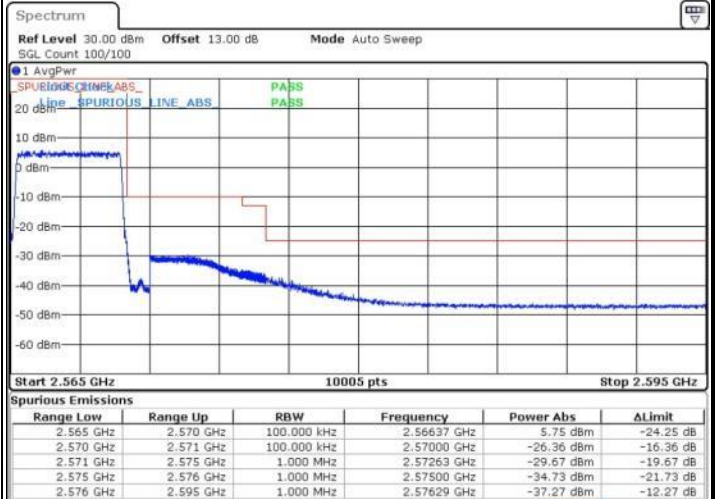
Date: 10 AUG 2015 11:20:51

Lowest Band Edge / Full RB



Date: 10 AUG 2015 11:13:03

Highest Band Edge / Full RB

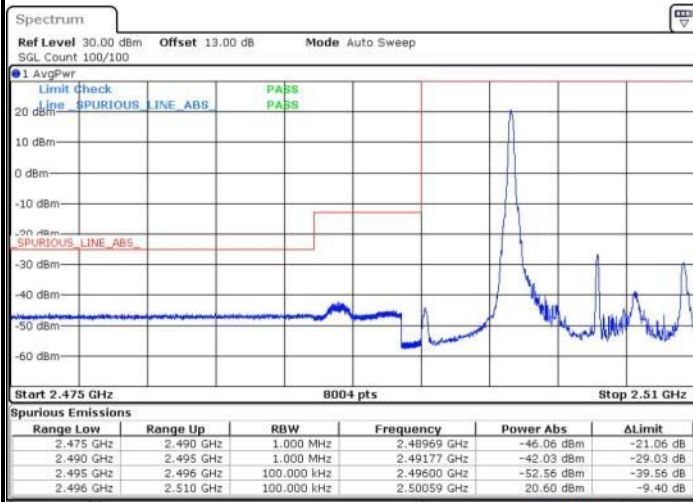


Date: 10 AUG 2015 11:23:20



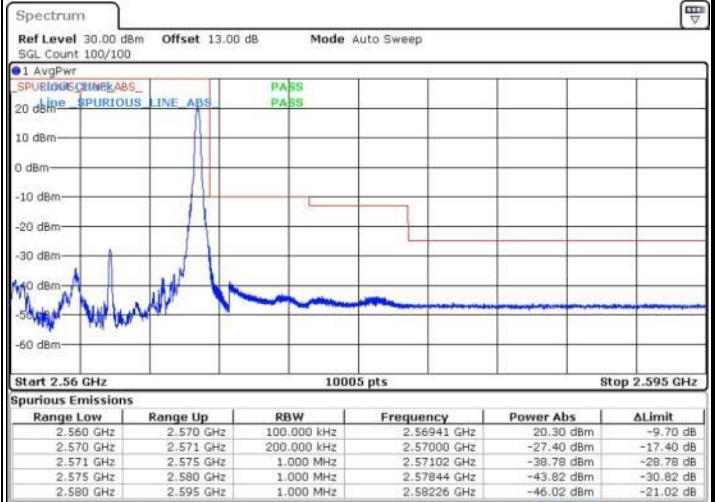
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



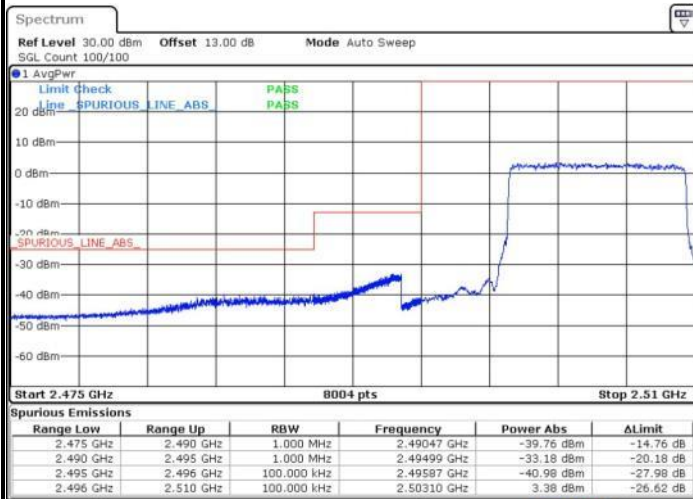
Date: 10 AUG 2015 11:27:13

Highest Band Edge / 1 RB



Date: 10 AUG 2015 11:37:25

Lowest Band Edge / Full RB



Date: 10 AUG 2015 11:29:38

Highest Band Edge / Full RB

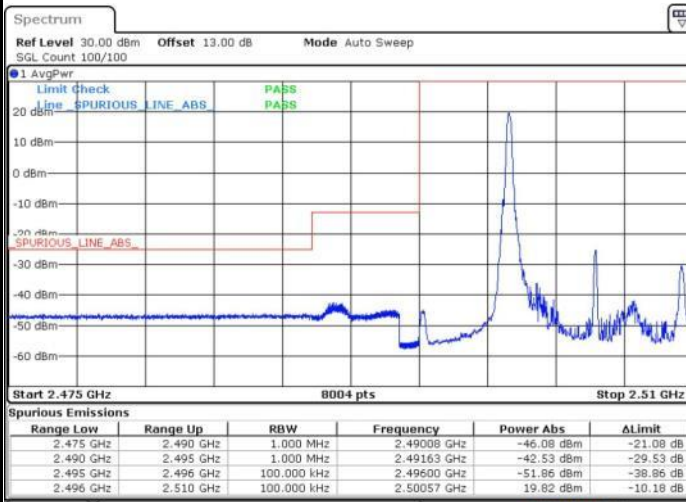


Date: 10 AUG 2015 21:13:13



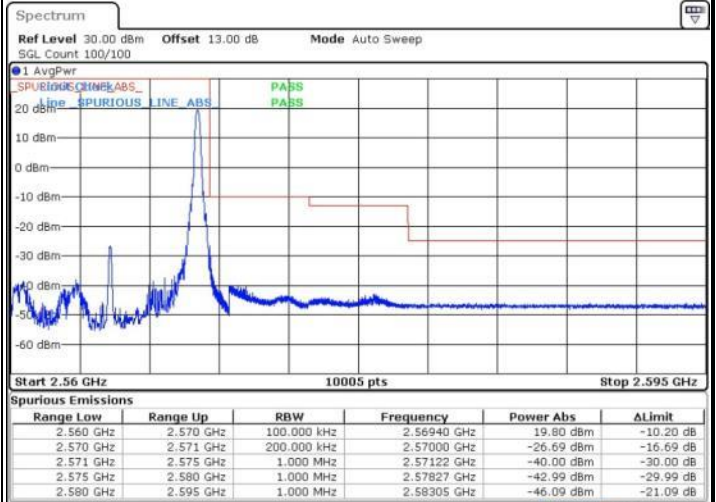
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



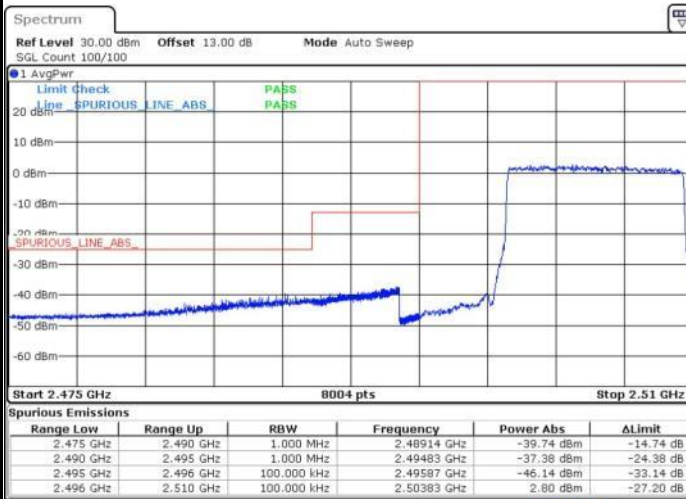
Date: 10 AUG 2015 21:08:21

Highest Band Edge / 1 RB



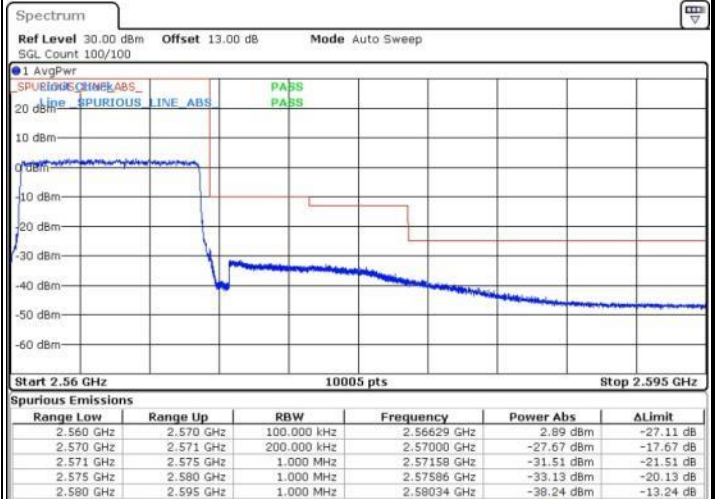
Date: 10 AUG 2015 21:12:47

Lowest Band Edge / Full RB



Date: 10 AUG 2015 21:10:53

Highest Band Edge / Full RB

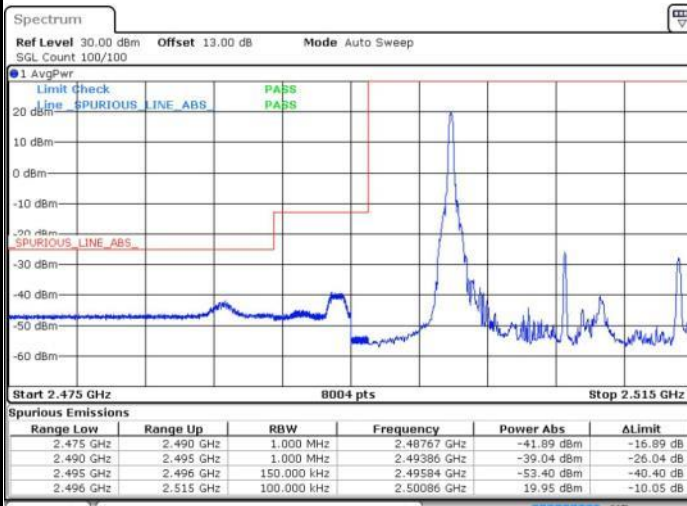


Date: 10 AUG 2015 11:41:07



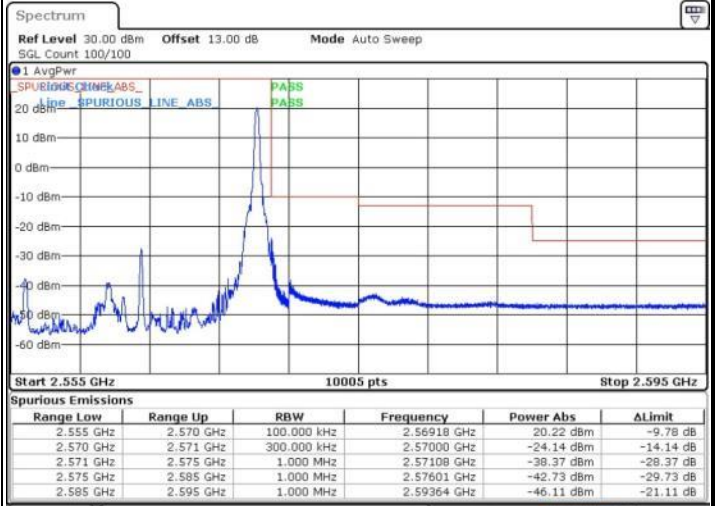
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



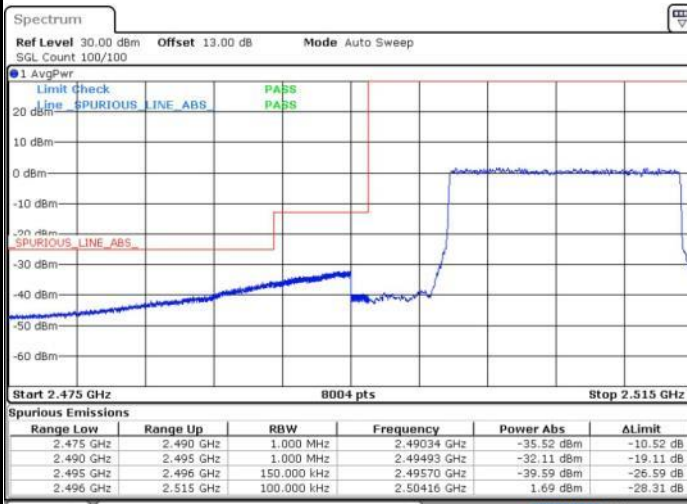
Date: 10 AUG 2015 11:44:59

Highest Band Edge / 1 RB



Date: 10 AUG 2015 11:55:06

Lowest Band Edge / Full RB



Date: 10 AUG 2015 11:47:25

Highest Band Edge / Full RB

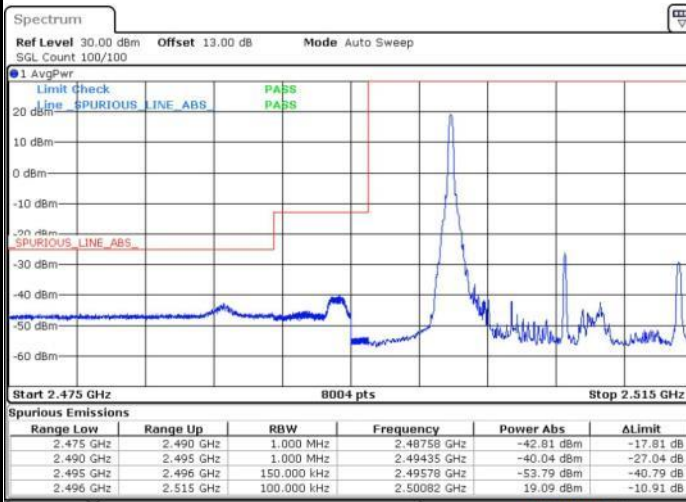


Date: 10 AUG 2015 21:15:48



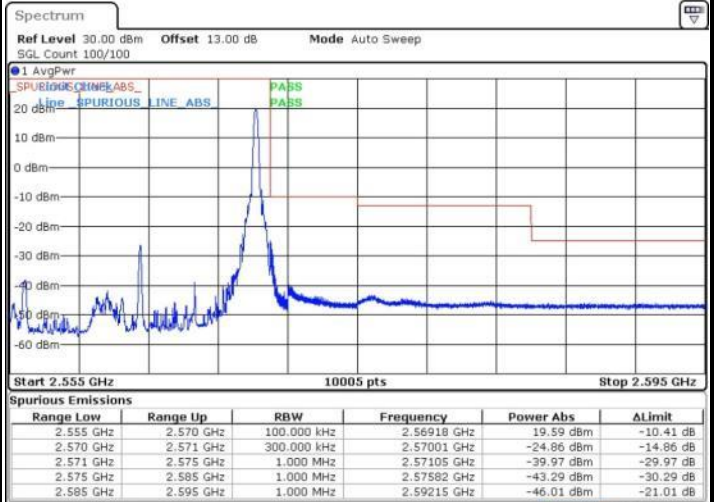
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



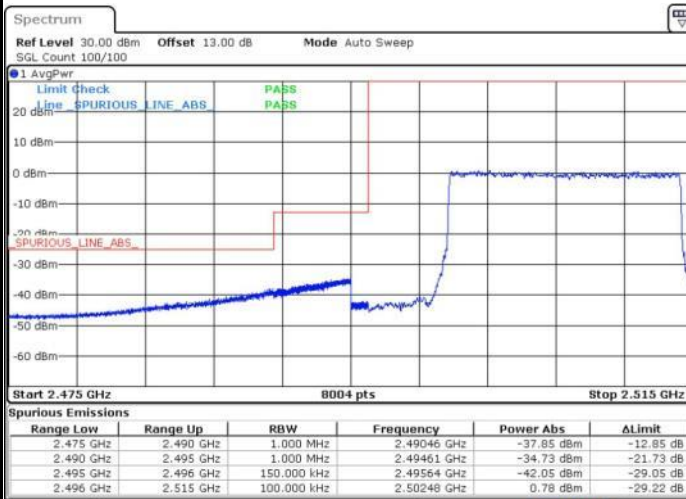
Date: 10 AUG 2015 11:46:13

Highest Band Edge / 1 RB



Date: 10 AUG 2015 21:15:30

Lowest Band Edge / Full RB



Date: 10 AUG 2015 11:48:38

Highest Band Edge / Full RB

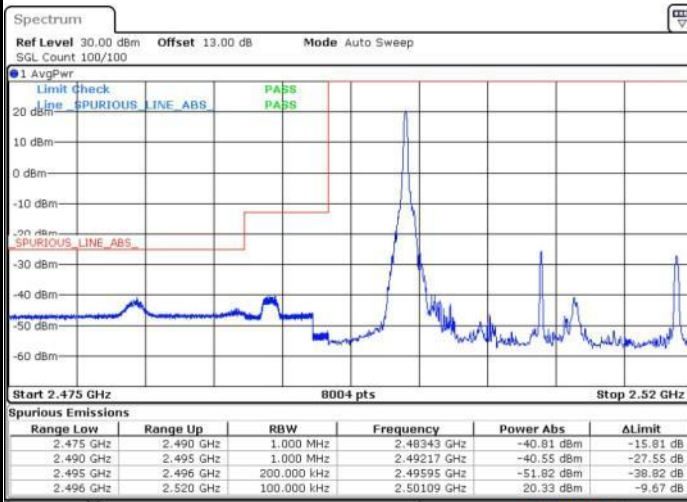


Date: 10 AUG 2015 11:58:46



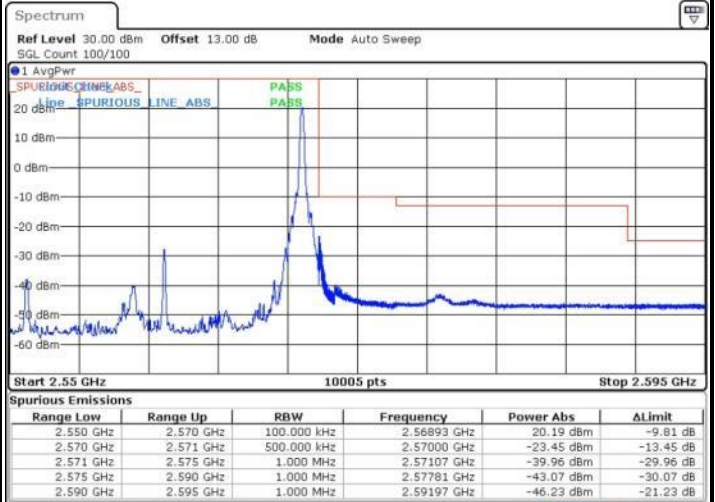
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



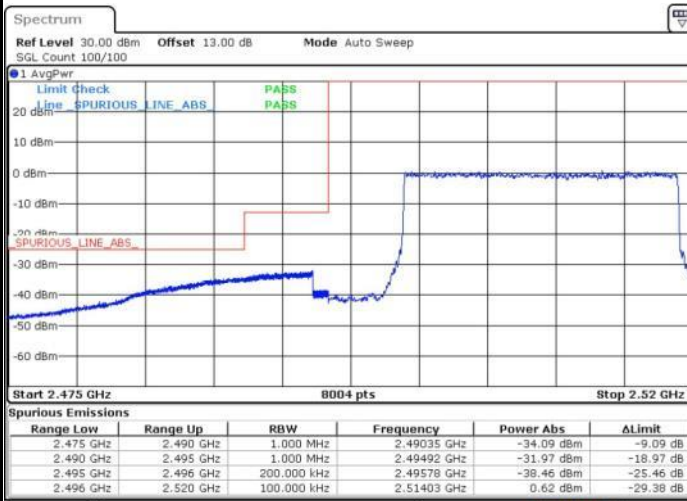
Date: 10 AUG 2015 21:20:19

Highest Band Edge / 1 RB



Date: 10 AUG 2015 12:12:48

Lowest Band Edge / Full RB



Date: 10 AUG 2015 12:05:03

Highest Band Edge / Full RB

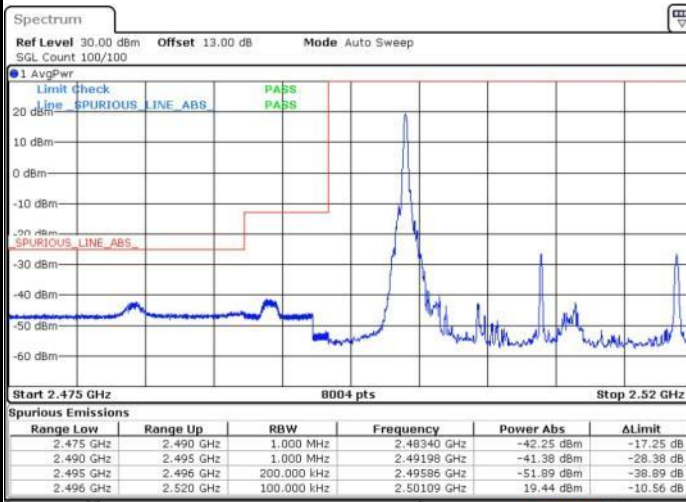


Date: 10 AUG 2015 12:16:27



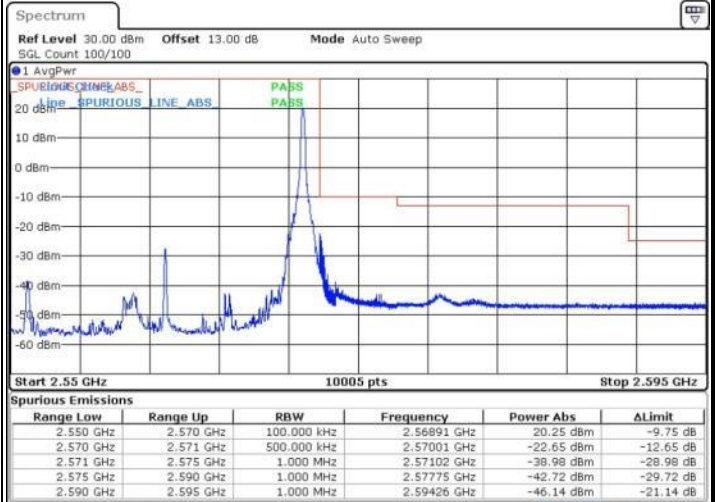
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



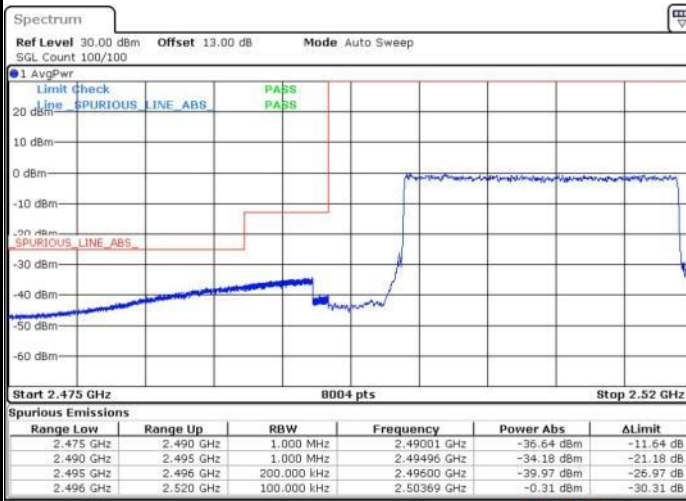
Date: 10 AUG 2015 12:03:50

Highest Band Edge / 1RB



Date: 10 AUG 2015 12:14:01

Lowest Band Edge / Full RB



Date: 10 AUG 2015 12:06:16

Highest Band Edge / Full RB



Date: 10 AUG 2015 12:15:14



Conducted Spurious Emission



LTE Band 7 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

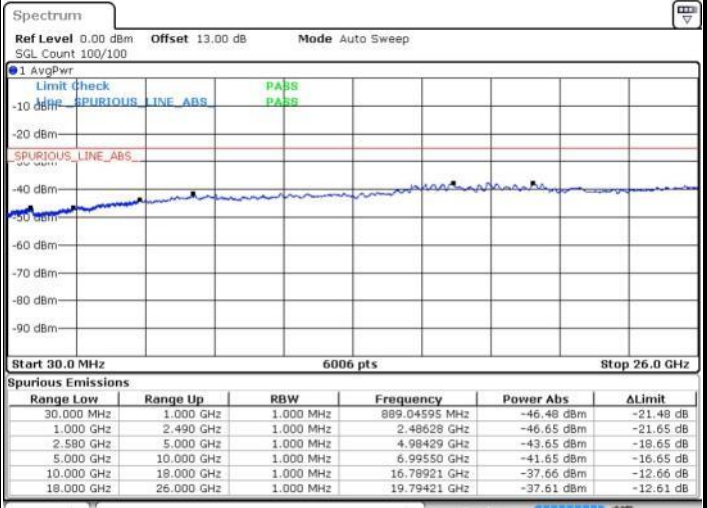
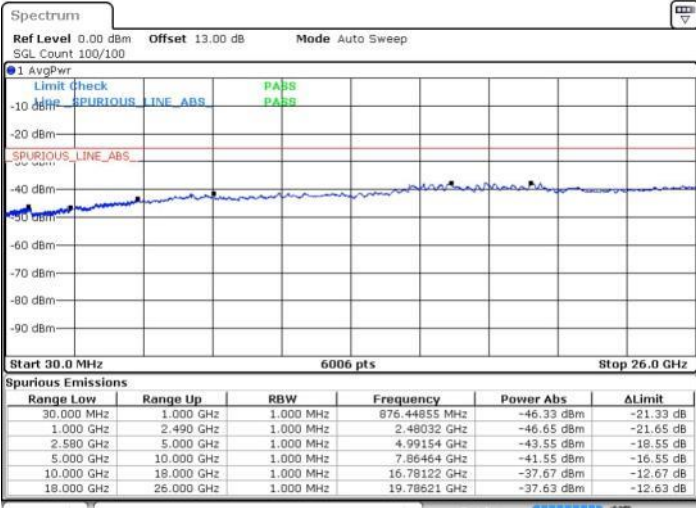


Date: 10.AUG.2015 11:14:01

Date: 10.AUG.2015 11:15:01

Middle Channel / QPSK

Middle Channel / 16QAM



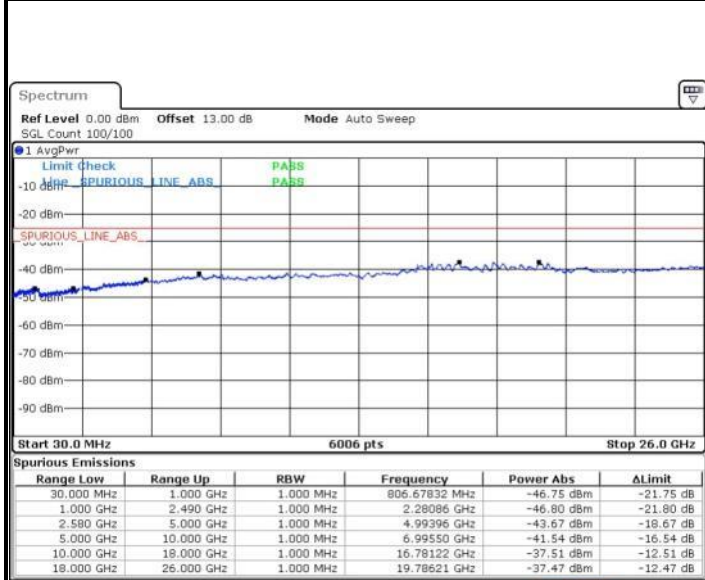
Date: 10.AUG.2015 21:03:23

Date: 10.AUG.2015 11:17:41



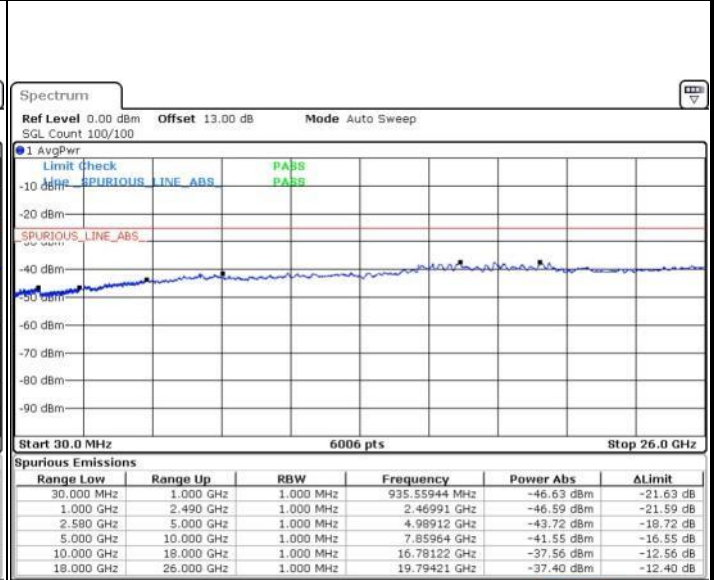
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 10.AUG.2015 21:04:35

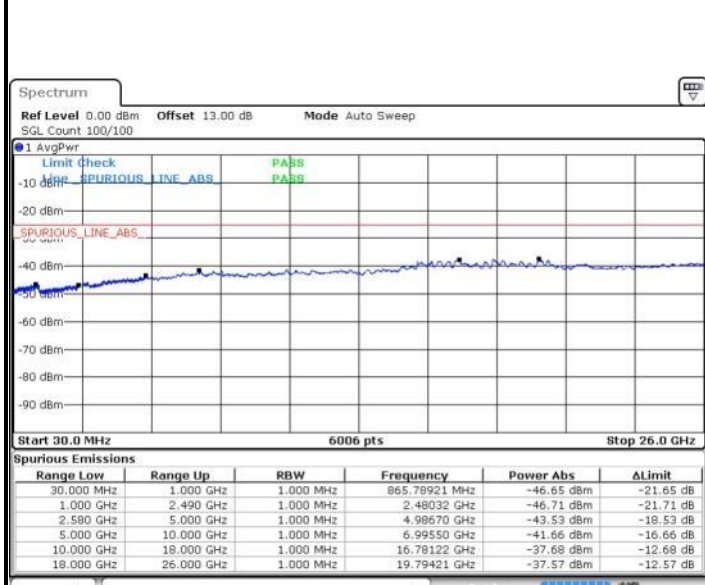
Highest Channel / 16QAM



Date: 10.AUG.2015 21:07:09

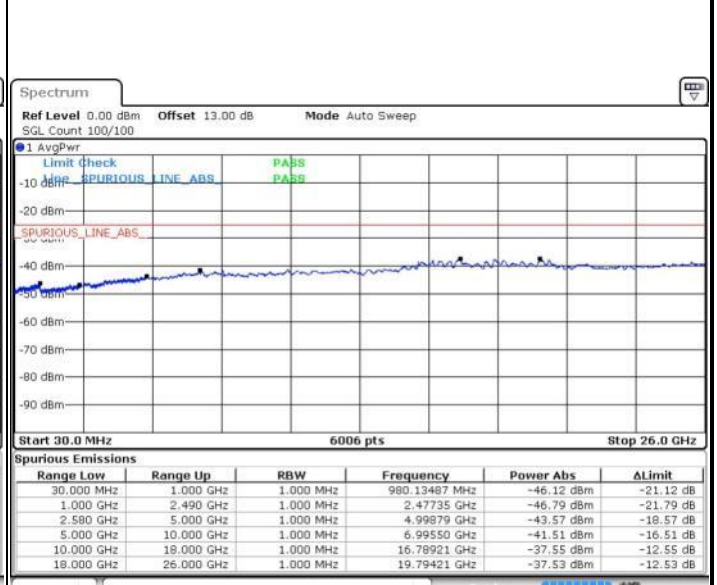
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 10.AUG.2015 11:31:50

Lowest Channel / 16QAM



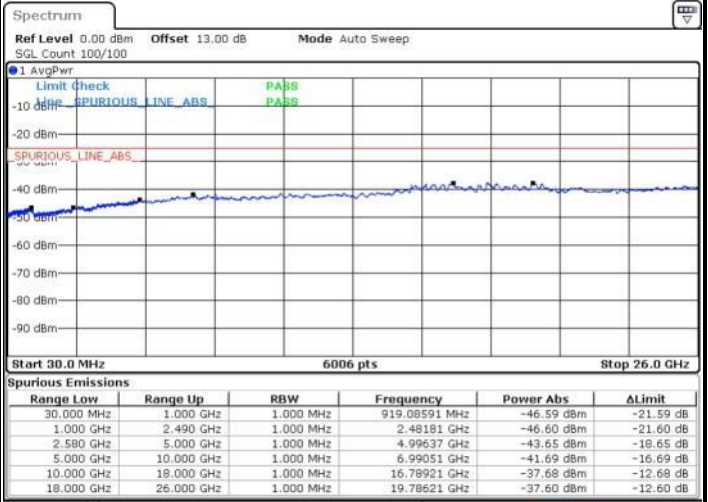
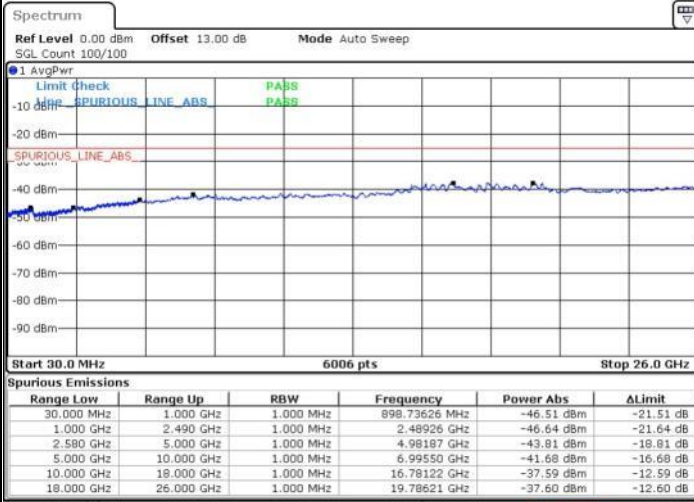
Date: 10.AUG.2015 21:14:16



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

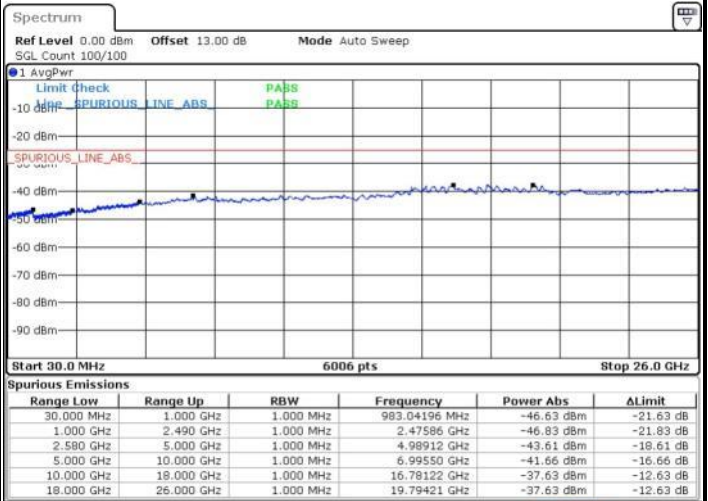
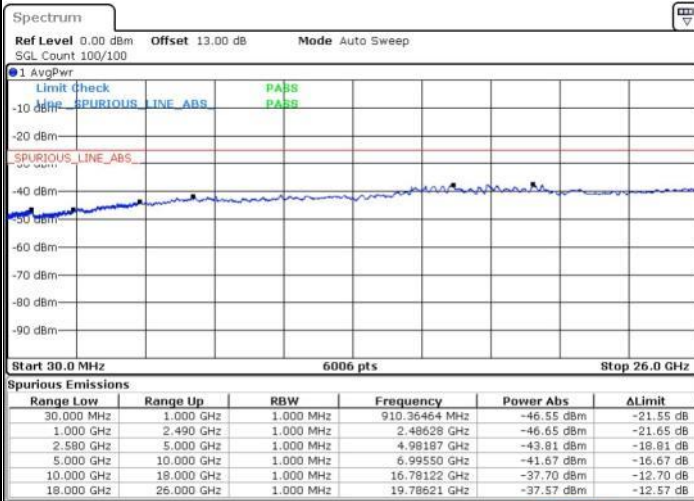


Date: 10.AUG.2015 11:34:31

Date: 10.AUG.2015 11:35:29

Highest Channel / QPSK

Highest Channel / 16QAM



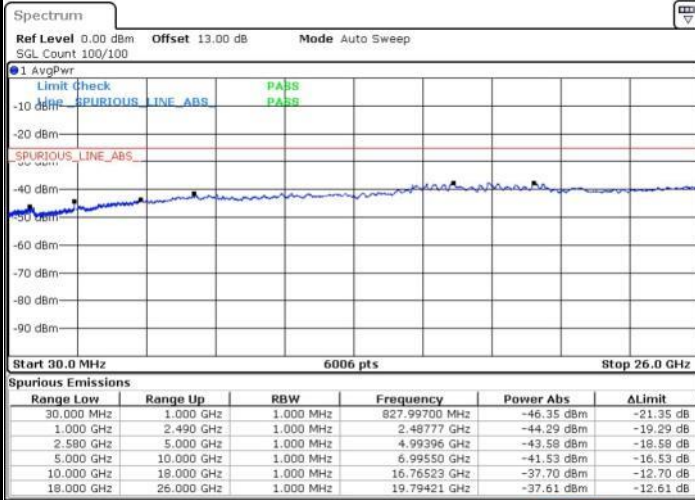
Date: 10.AUG.2015 11:42:06

Date: 10.AUG.2015 11:43:04



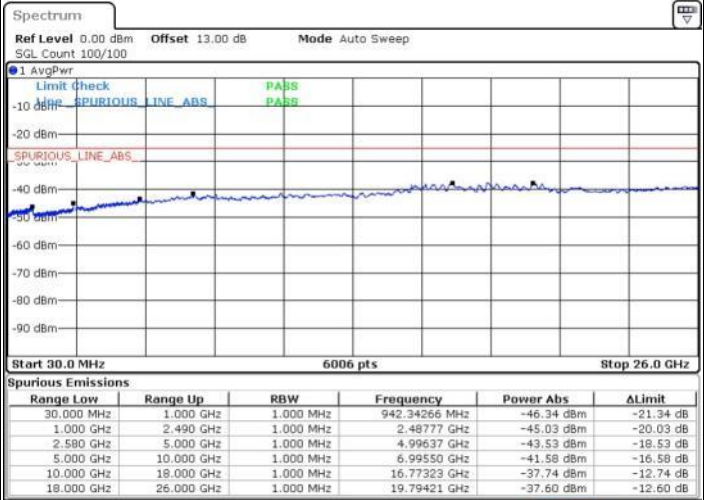
LTE Band 7 / 15MHz

Lowest Channel / QPSK



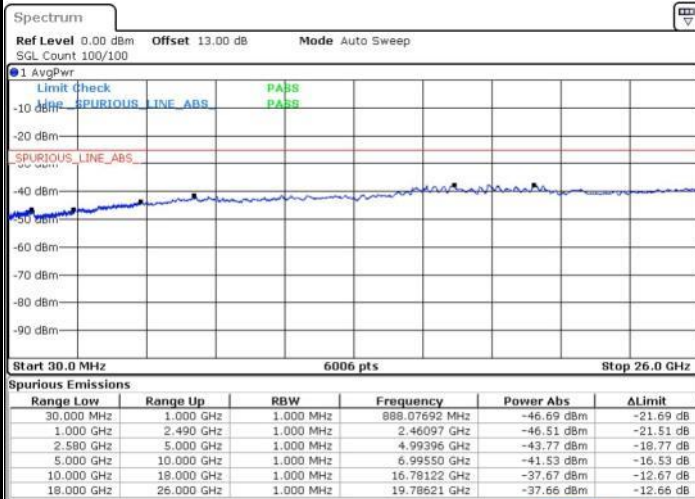
Date: 10.AUG.2015 11:49:35

Lowest Channel / 16QAM



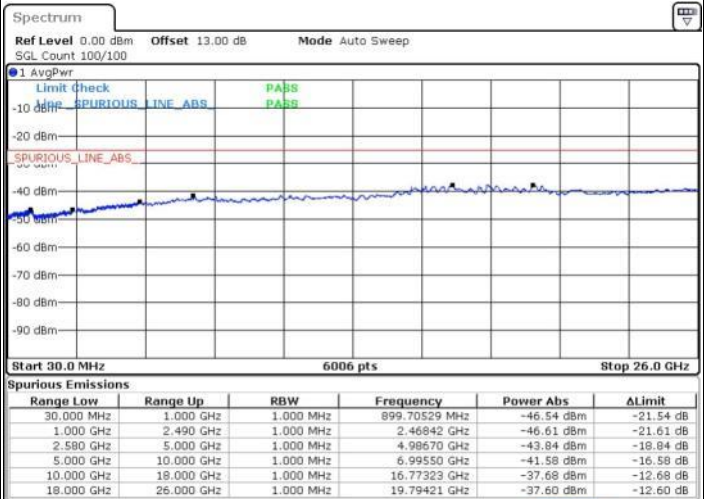
Date: 10.AUG.2015 11:50:33

Middle Channel / QPSK



Date: 10.AUG.2015 11:52:13

Middle Channel / 16QAM

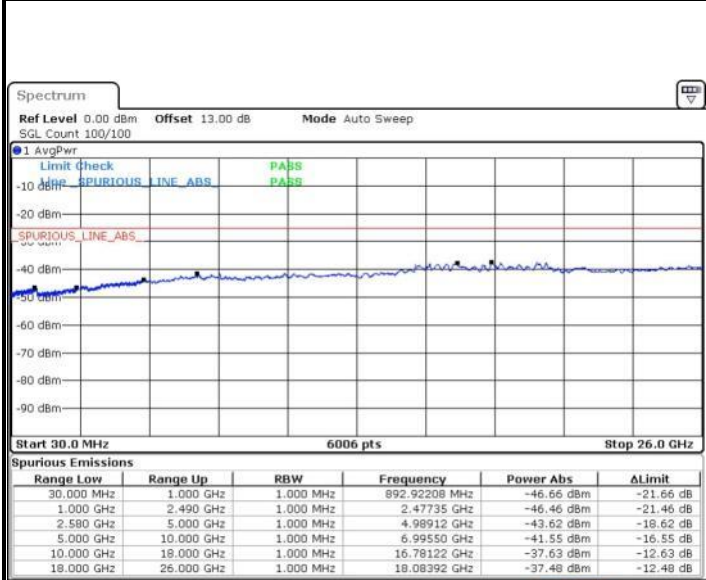


Date: 10.AUG.2015 11:53:11



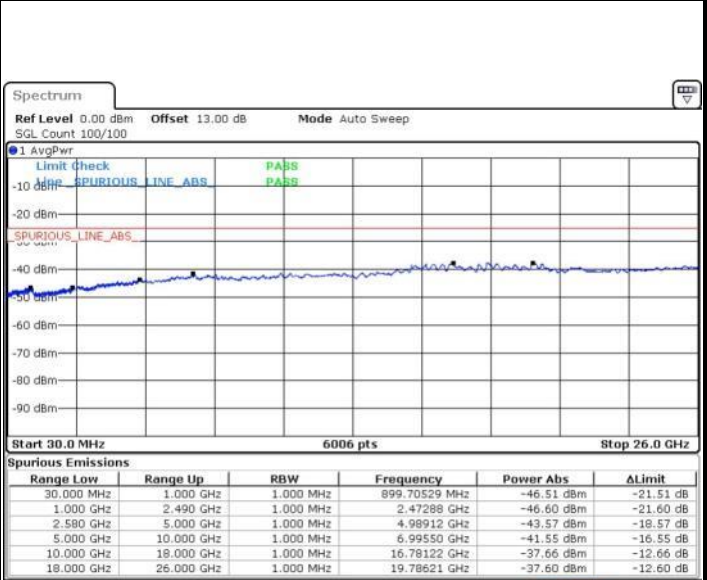
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 10.AUG.2015 21:18:35

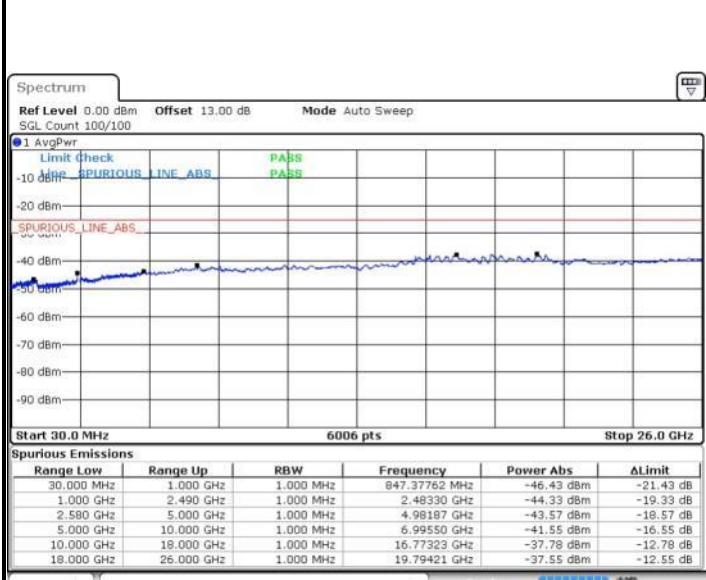
Highest Channel / 16QAM



Date: 10.AUG.2015 21:17:29

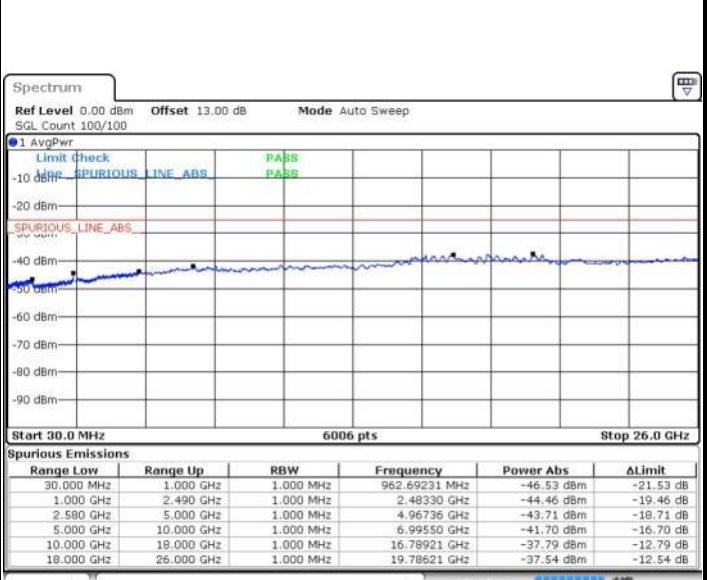
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 10.AUG.2015 12:07:15

Lowest Channel / 16QAM



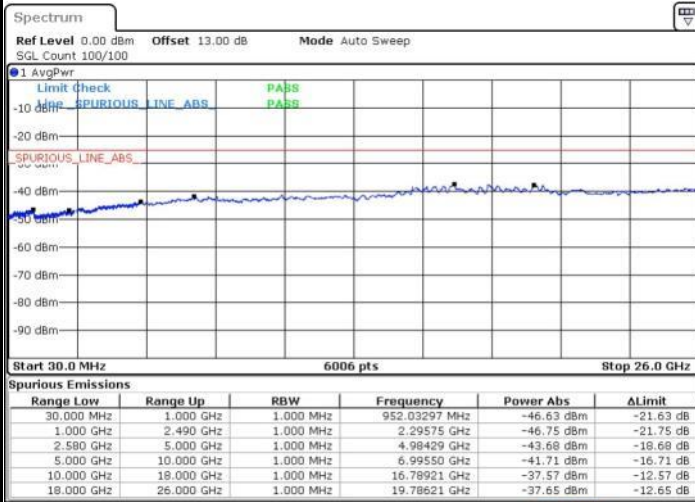
Date: 10.AUG.2015 12:08:13



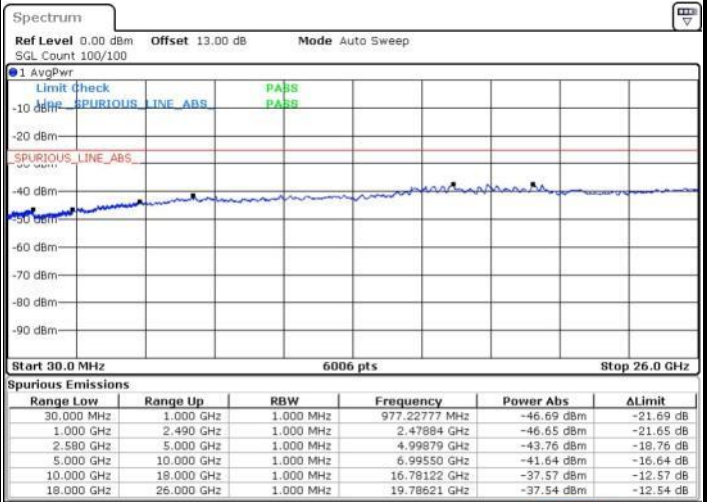
LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



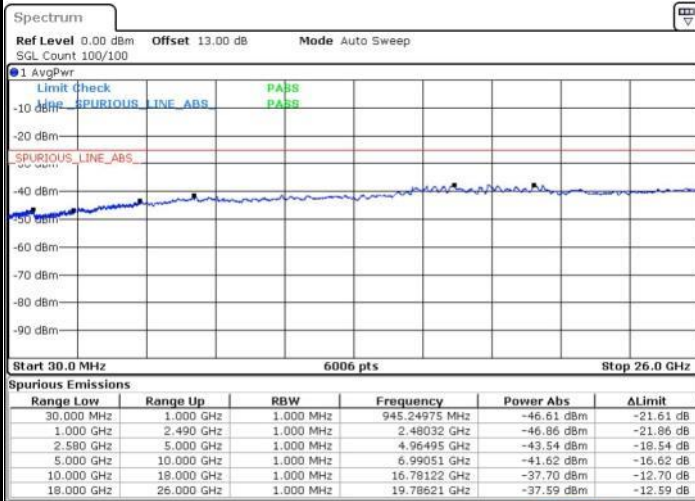
Date: 10.AUG.2015 12:09:55



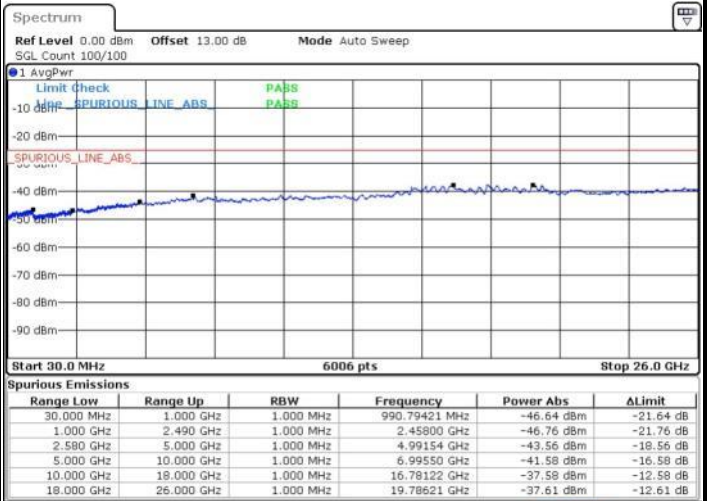
Date: 10.AUG.2015 12:10:52

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 10.AUG.2015 12:17:24



Date: 10.AUG.2015 12:18:22



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. 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	4.49	4.87	4.93	5.71	PASS
Middle CH	4.61	4.81	5.42	5.74	
Highest CH	4.64	4.81	5.25	5.65	



LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 10 AUG 2015 11:04:36

Lowest Channel / Full RB



Date: 10 AUG 2015 11:04:20

Middle Channel / 1RB



Date: 10 AUG 2015 11:04:58

Middle Channel / Full RB



Date: 10 AUG 2015 11:05:14

Highest Channel / 1RB



Date: 10 AUG 2015 11:05:47

Highest Channel / Full RB

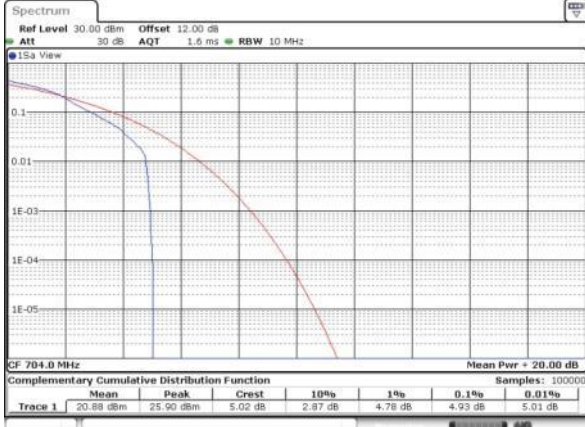


Date: 10 AUG 2015 11:05:24



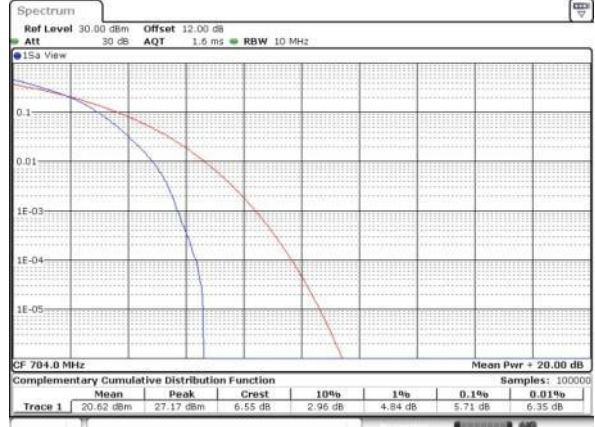
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 10 AUG 2015 10:57:53

Lowest Channel / Full RB



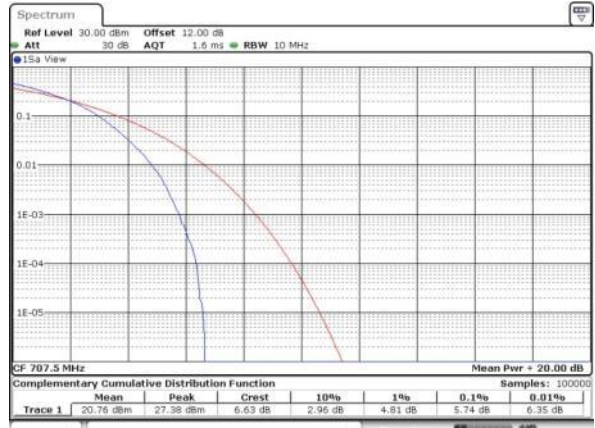
Date: 10 AUG 2015 10:49:10

Middle Channel / 1RB



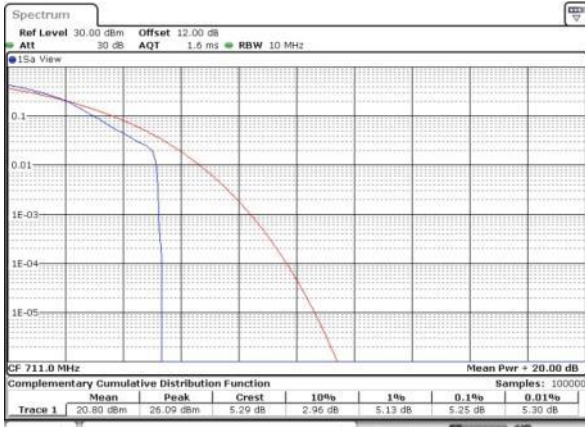
Date: 10 AUG 2015 10:58:03

Middle Channel / Full RB



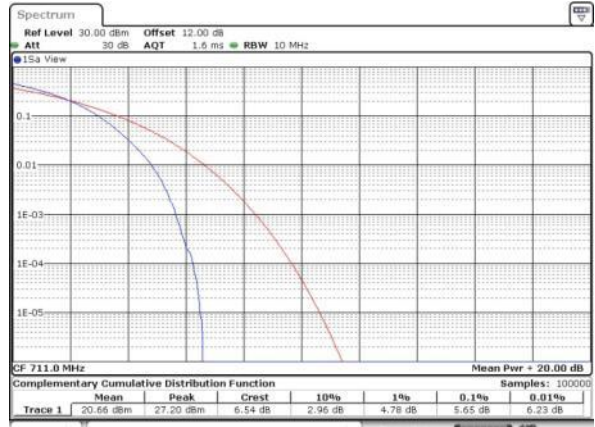
Date: 10 AUG 2015 11:02:23

Highest Channel / 1RB



Date: 10 AUG 2015 11:03:14

Highest Channel / Full RB



Date: 10 AUG 2015 11:02:56



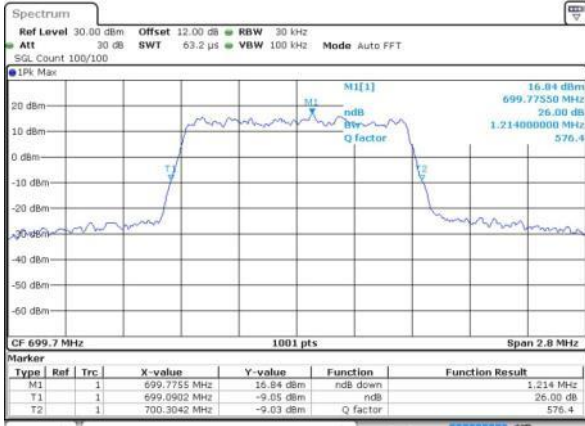
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.21	1.22	3.06	3.07	4.86	4.91	9.85	9.81	-	-	-	-
Middle CH	1.23	1.23	3.02	3.01	4.86	4.89	9.69	9.67	-	-	-	-
Highest CH	1.23	1.24	3.05	3.03	4.93	4.88	9.81	9.81	-	-	-	-



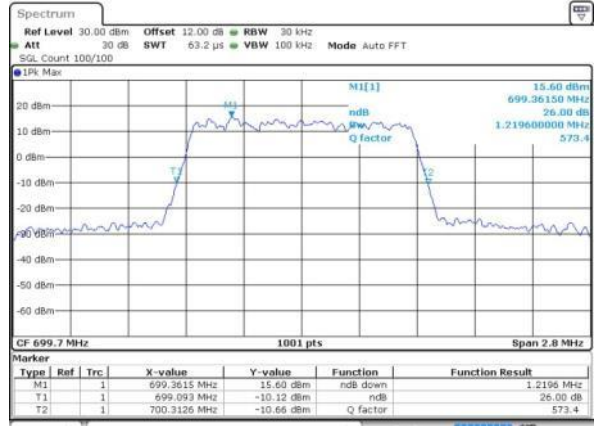
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



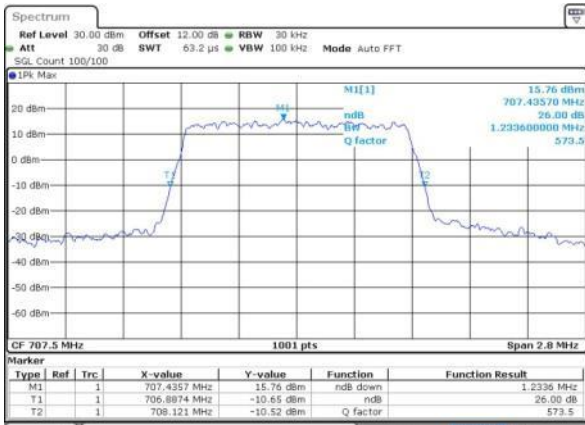
Date: 10 AUG 2015 10:23:56

Lowest Channel / 1.4MHz / 16QAM



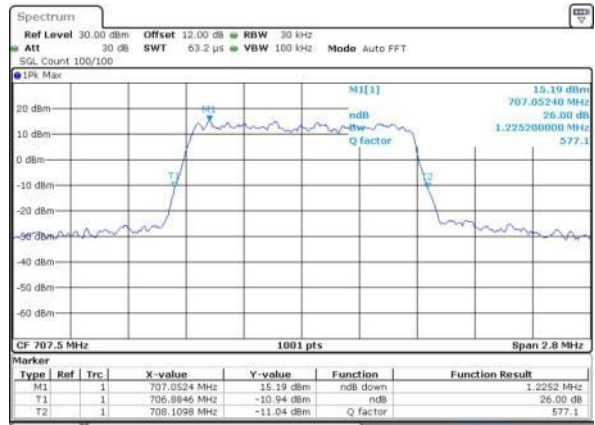
Date: 10 AUG 2015 10:23:45

Middle Channel / 1.4MHz / QPSK



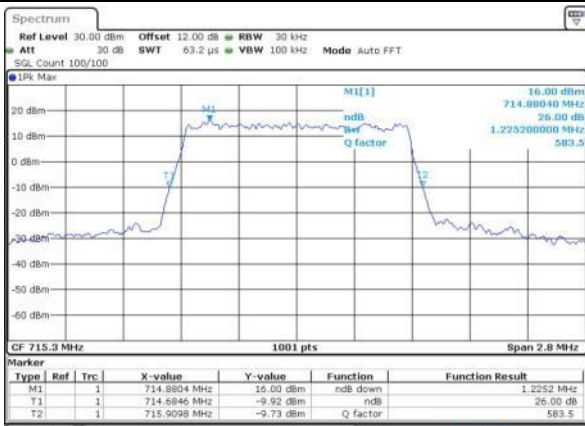
Date: 10 AUG 2015 10:34:25

Middle Channel / 1.4MHz / 16QAM



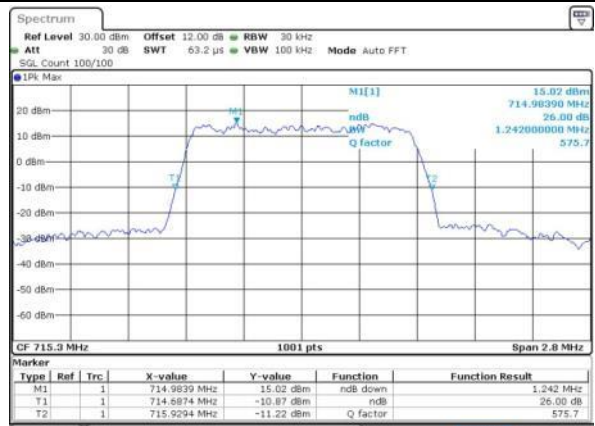
Date: 10 AUG 2015 21:22:44

Highest Channel / 1.4MHz / QPSK



Date: 10 AUG 2015 10:37:28

Highest Channel / 1.4MHz / 16QAM

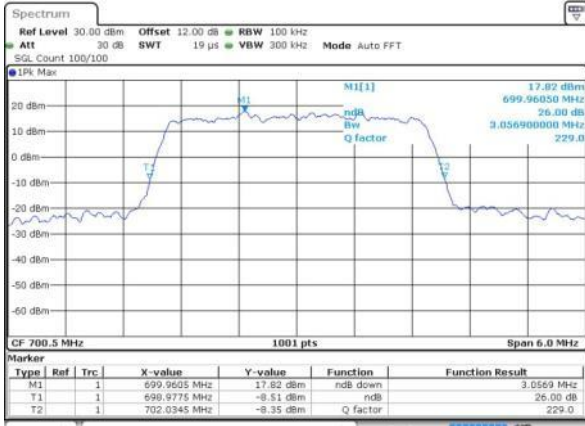


Date: 10 AUG 2015 10:37:15



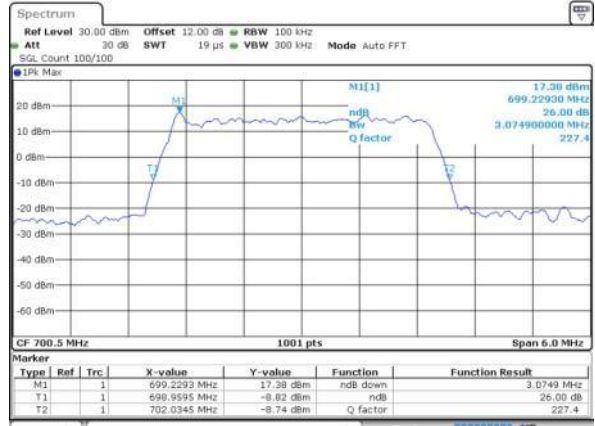
LTE Band 12

Lowest Channel / 3MHz / QPSK



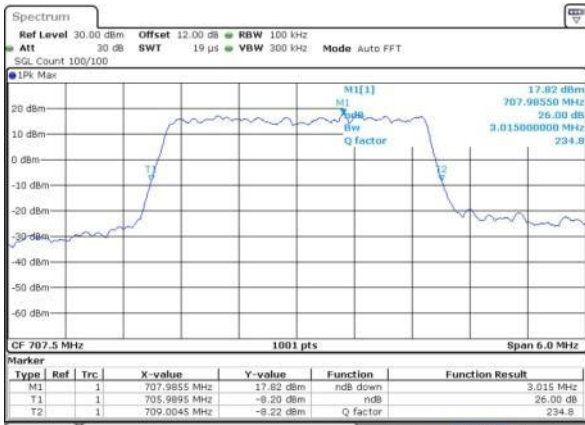
Date: 9 AUG 2015 17:33:59

Lowest Channel / 3MHz / 16QAM



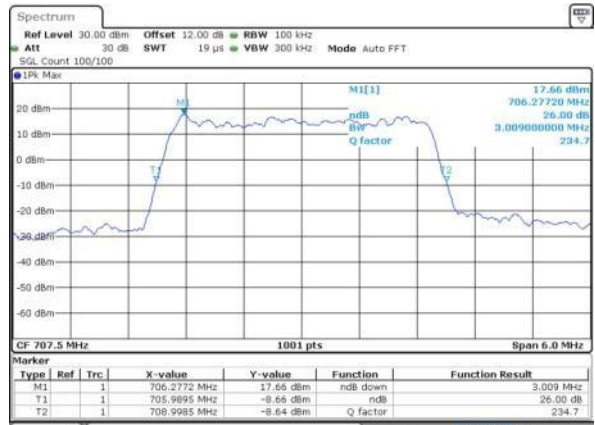
Date: 9 AUG 2015 17:33:49

Middle Channel / 3MHz / QPSK



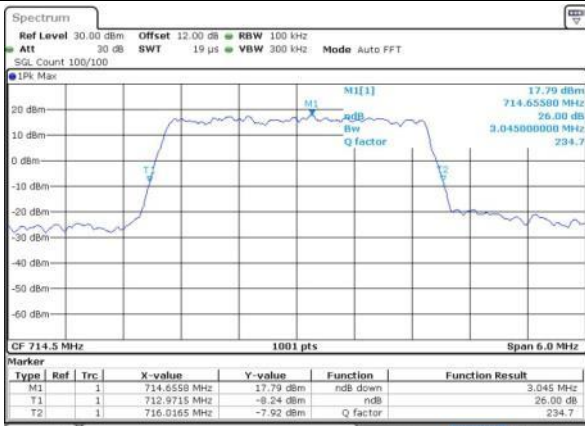
Date: 9 AUG 2015 17:43:57

Middle Channel / 3MHz / 16QAM



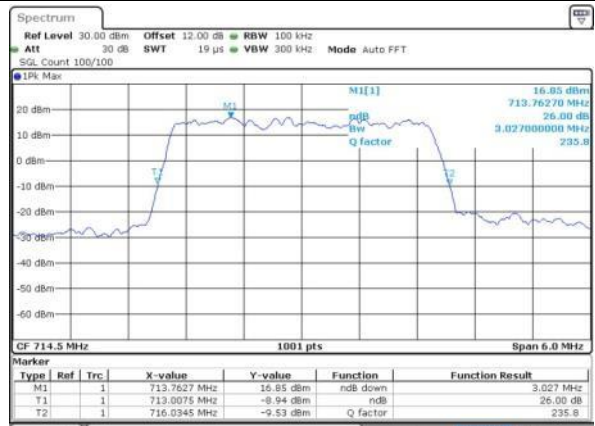
Date: 9 AUG 2015 17:44:06

Highest Channel / 3MHz / QPSK



Date: 9 AUG 2015 17:46:39

Highest Channel / 3MHz / 16QAM

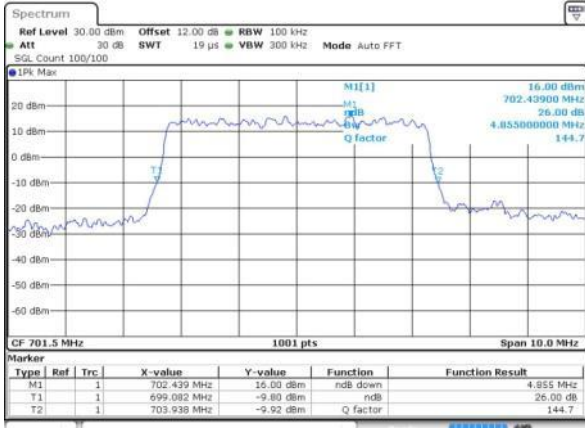


Date: 9 AUG 2015 17:46:28



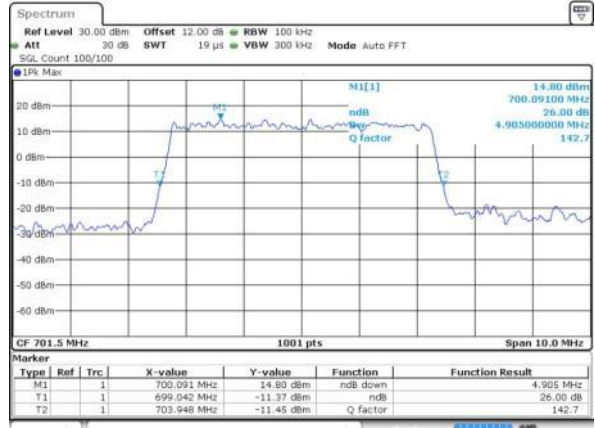
LTE Band 12

Lowest Channel / 5MHz / QPSK



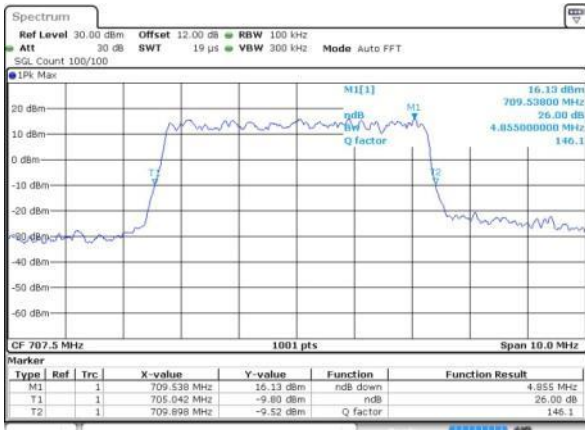
Date: 9 AUG 2015 17:56:47

Lowest Channel / 5MHz / 16QAM



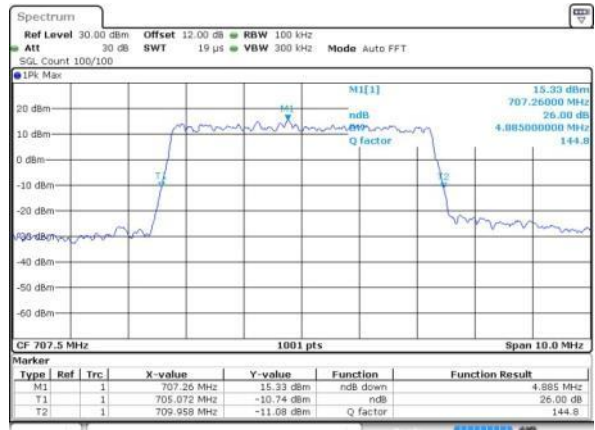
Date: 9 AUG 2015 17:56:36

Middle Channel / 5MHz / QPSK



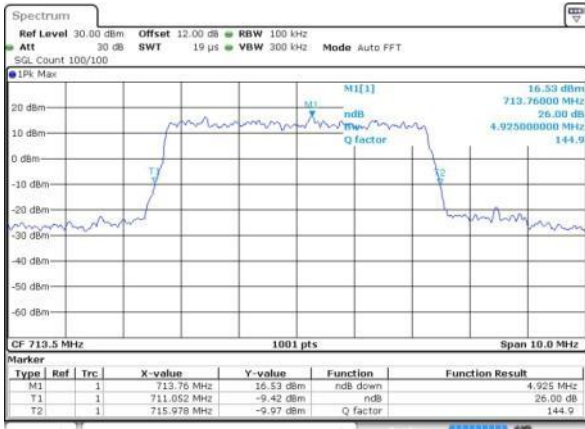
Date: 9 AUG 2015 18:06:44

Middle Channel / 5MHz / 16QAM



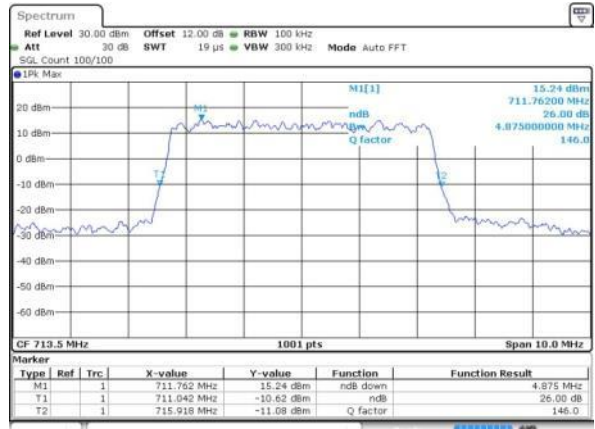
Date: 9 AUG 2015 18:06:55

Highest Channel / 5MHz / QPSK



Date: 9 AUG 2015 18:09:25

Highest Channel / 5MHz / 16QAM

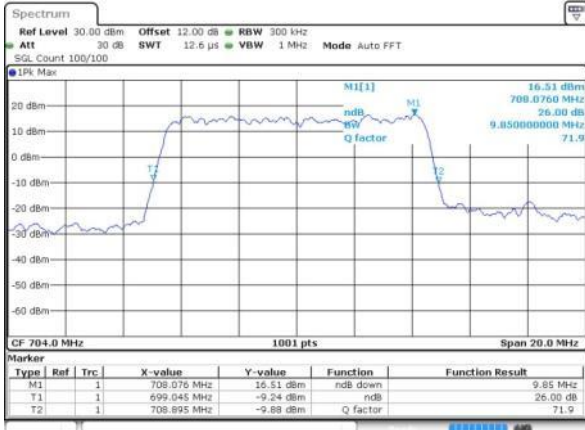


Date: 9 AUG 2015 18:09:15



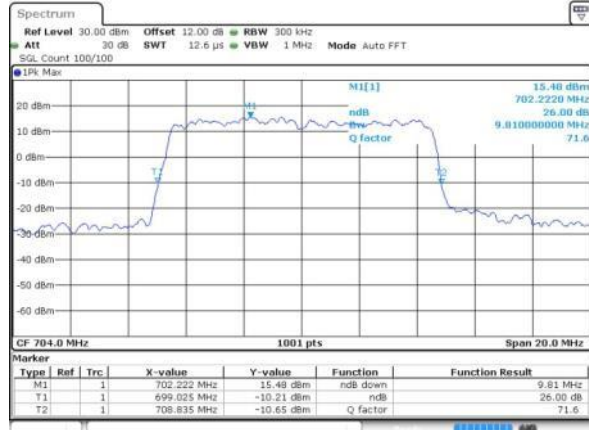
LTE Band 12

Lowest Channel / 10MHz / QPSK



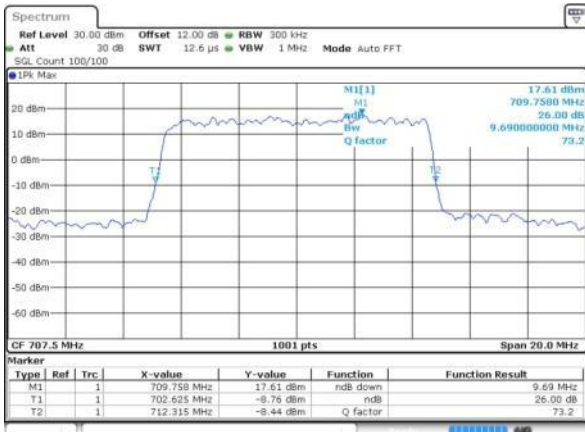
Date: 10 AUG 2015 09:48:52

Lowest Channel / 10MHz / 16QAM



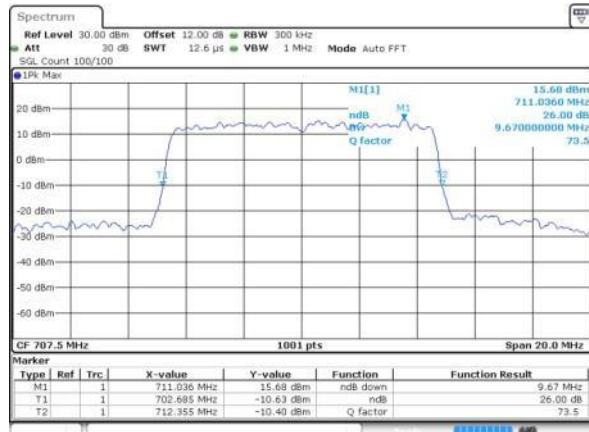
Date: 10 AUG 2015 09:48:41

Middle Channel / 10MHz / QPSK



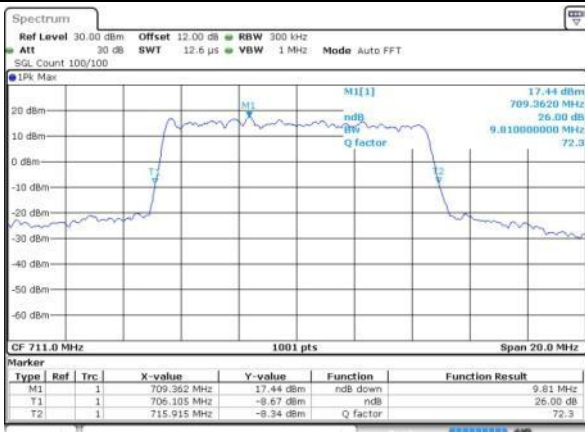
Date: 10 AUG 2015 10:04:18

Middle Channel / 10MHz / 16QAM



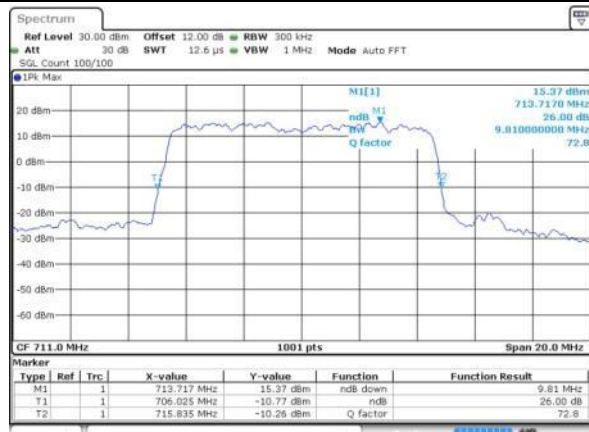
Date: 10 AUG 2015 10:04:29

Highest Channel / 10MHz / QPSK



Date: 10 AUG 2015 10:07:18

Highest Channel / 10MHz / 16QAM



Date: 10 AUG 2015 10:07:07



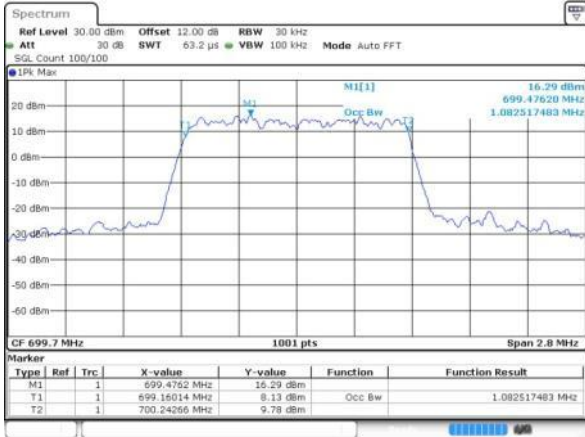
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.08	1.09	2.73	2.71	4.48	4.5	9.01	9.05	-	-	-	-
Middle CH	1.09	1.08	2.72	2.7	4.49	4.5	9.05	9.01	-	-	-	-
Highest CH	1.09	1.09	2.72	2.75	4.51	4.48	9.03	9.01	-	-	-	-



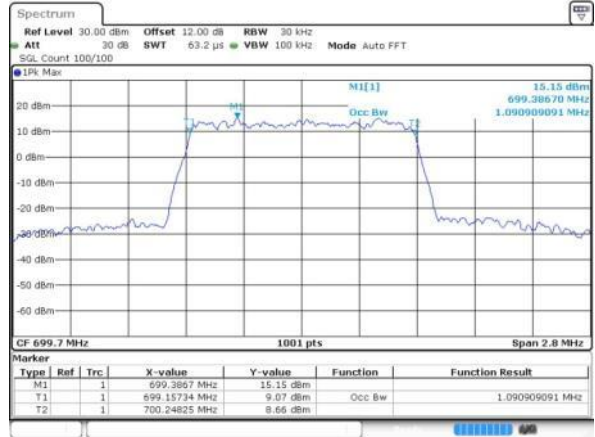
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



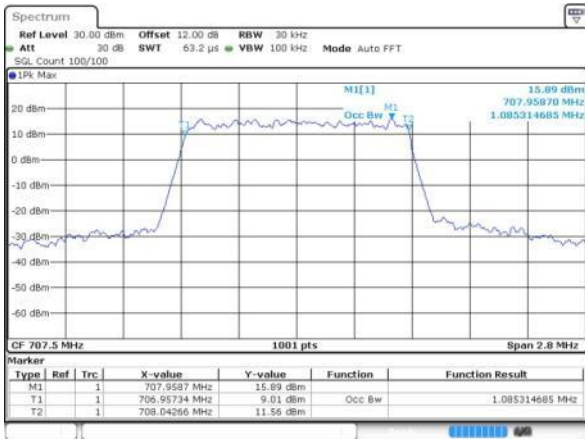
Date: 10 AUG 2015 10:23:23

Lowest Channel / 1.4MHz / 16QAM



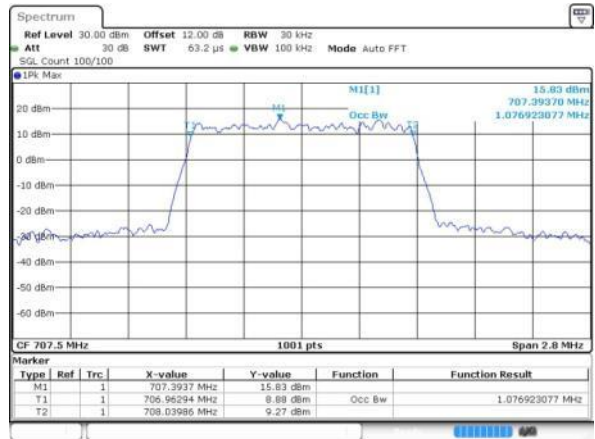
Date: 10 AUG 2015 10:23:34

Middle Channel / 1.4MHz / QPSK



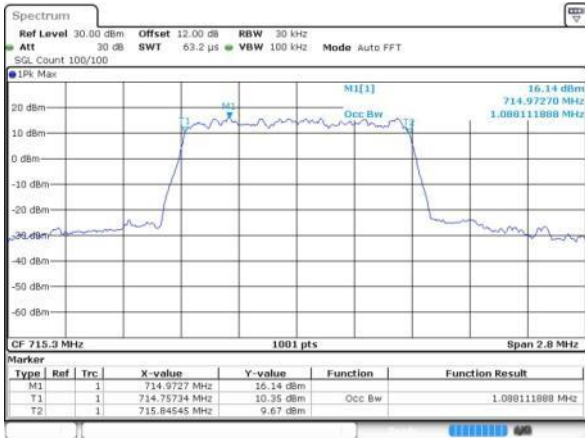
Date: 10 AUG 2015 10:34:15

Middle Channel / 1.4MHz / 16QAM



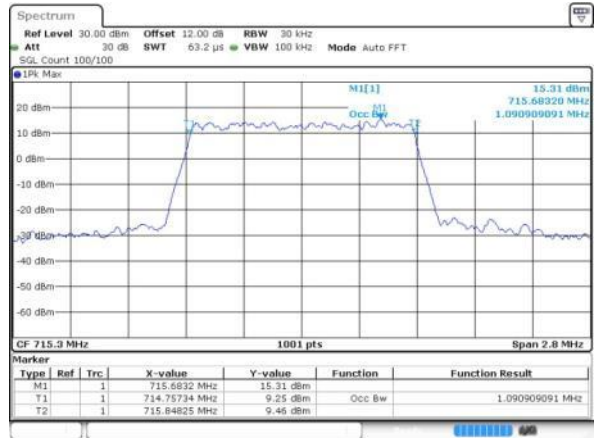
Date: 10 AUG 2015 10:34:04

Highest Channel / 1.4MHz / QPSK



Date: 10 AUG 2015 10:36:53

Highest Channel / 1.4MHz / 16QAM

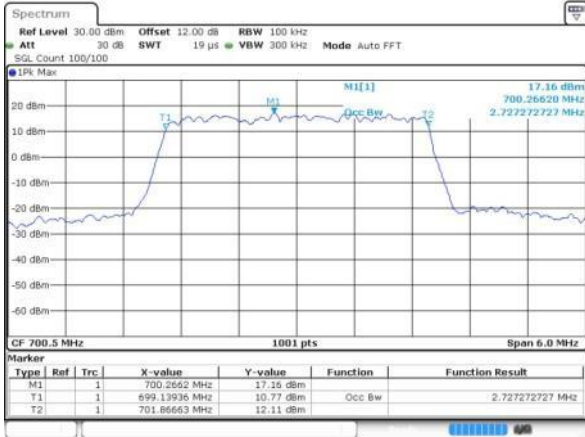


Date: 10 AUG 2015 10:37:04



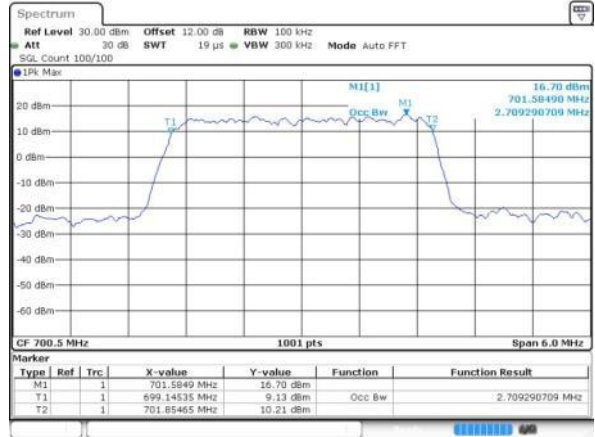
LTE Band 12

Lowest Channel / 3MHz / QPSK



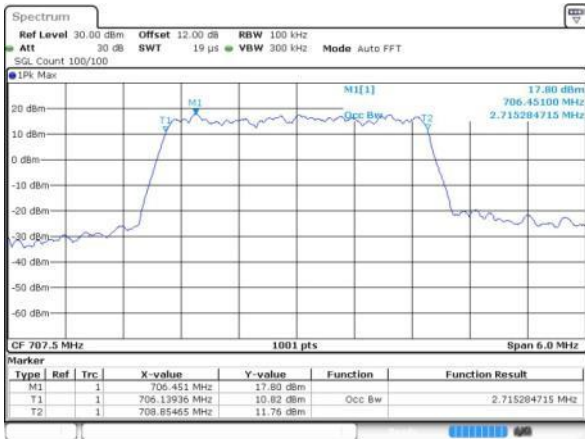
Date: 9 AUG 2015 17:33:28

Lowest Channel / 3MHz / 16QAM



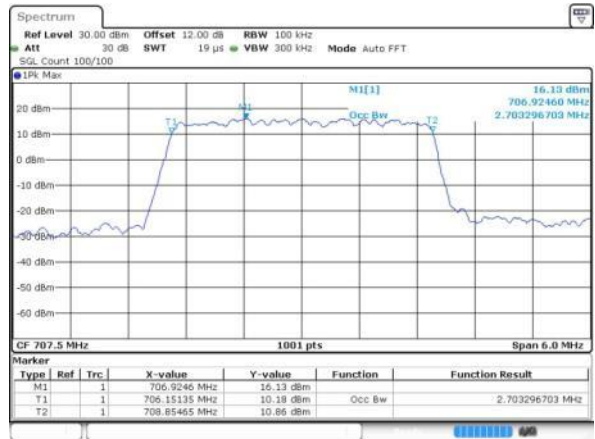
Date: 9 AUG 2015 17:33:38

Middle Channel / 3MHz / QPSK



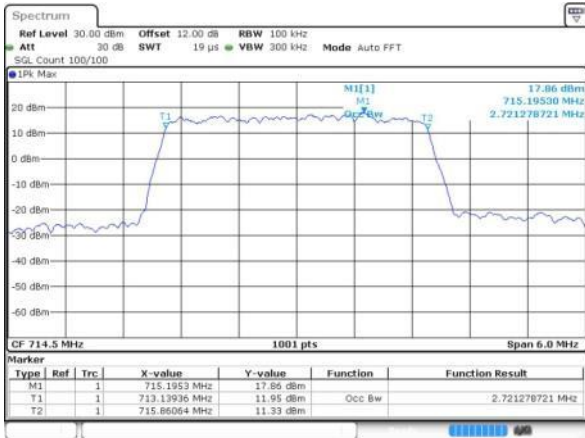
Date: 9 AUG 2015 17:43:46

Middle Channel / 3MHz / 16QAM



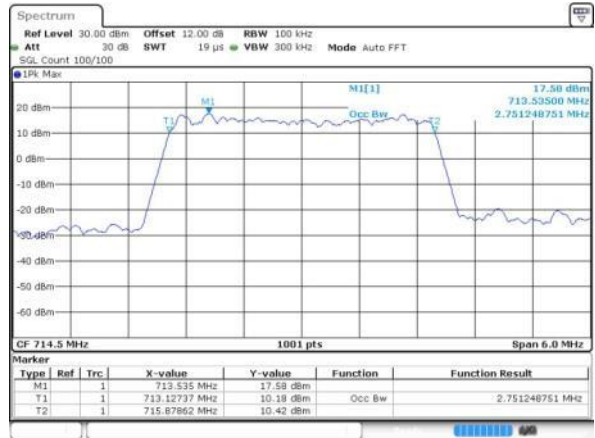
Date: 9 AUG 2015 17:43:36

Highest Channel / 3MHz / QPSK



Date: 9 AUG 2015 17:46:07

Highest Channel / 3MHz / 16QAM

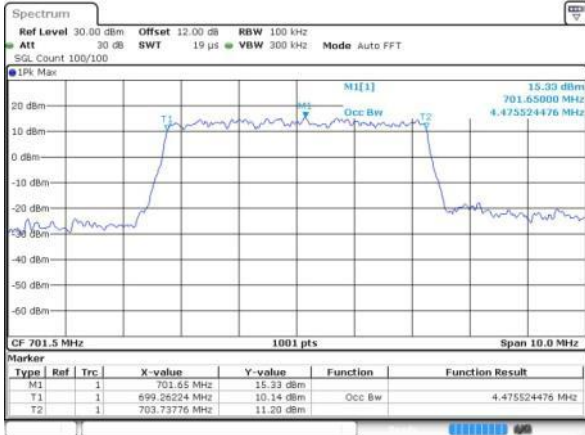


Date: 9 AUG 2015 17:46:18



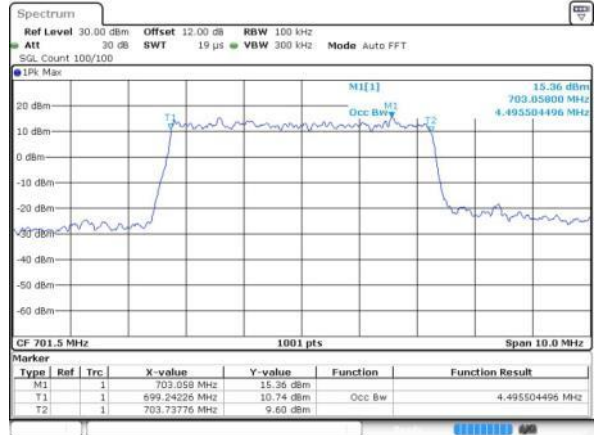
LTE Band 12

Lowest Channel / 5MHz / QPSK



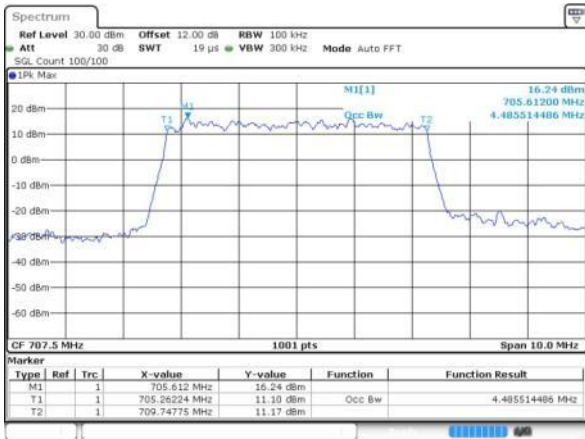
Date: 9 AUG 2015 17:56:15

Lowest Channel / 5MHz / 16QAM



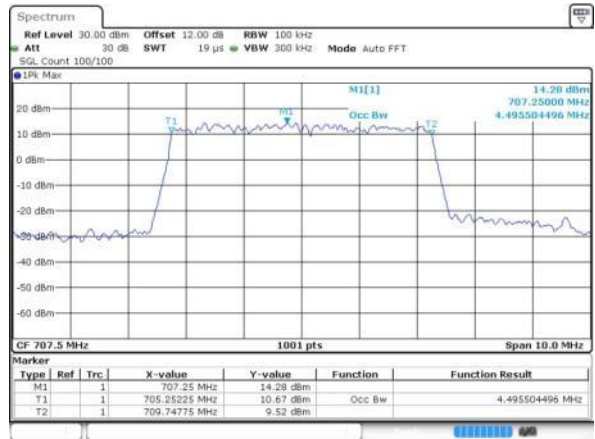
Date: 9 AUG 2015 17:56:26

Middle Channel / 5MHz / QPSK



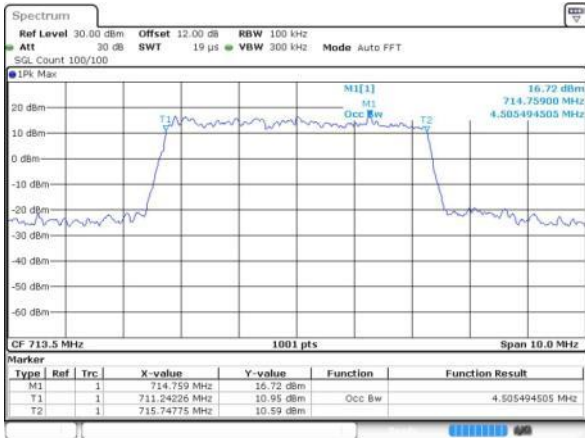
Date: 9 AUG 2015 18:06:33

Middle Channel / 5MHz / 16QAM



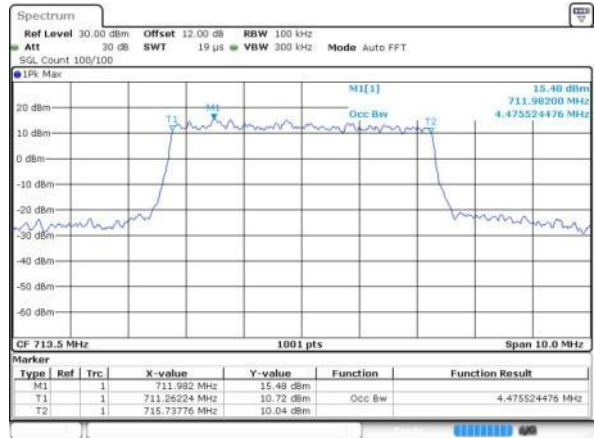
Date: 9 AUG 2015 18:06:23

Highest Channel / 5MHz / QPSK



Date: 9 AUG 2015 18:08:54

Highest Channel / 5MHz / 16QAM

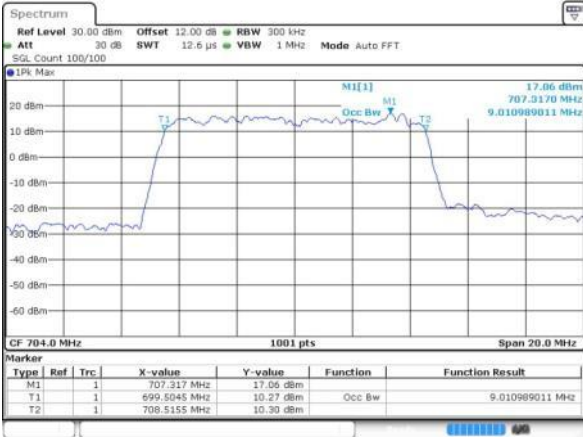


Date: 9 AUG 2015 18:09:04

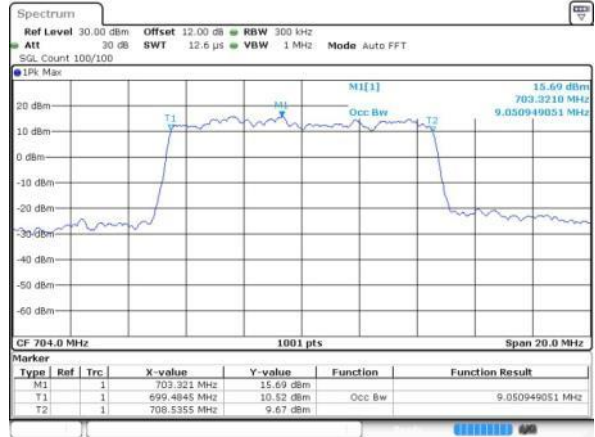


LTE Band 12

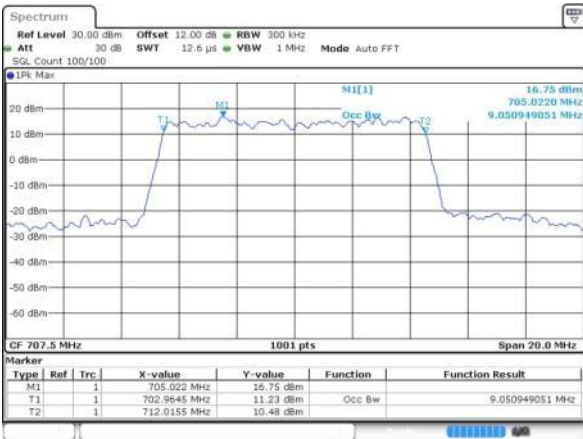
Lowest Channel / 10MHz / QPSK



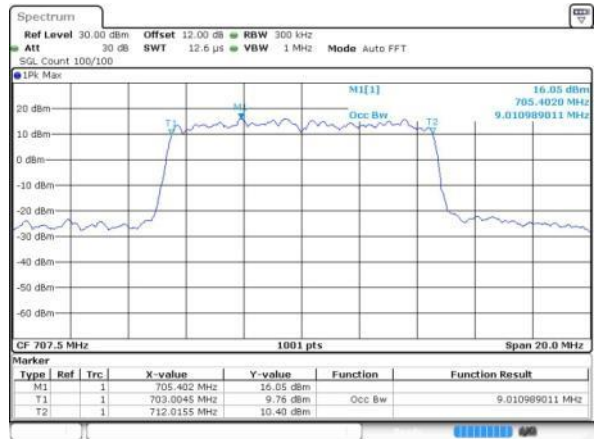
Lowest Channel / 10MHz / 16QAM



Middle Channel / 10MHz / QPSK



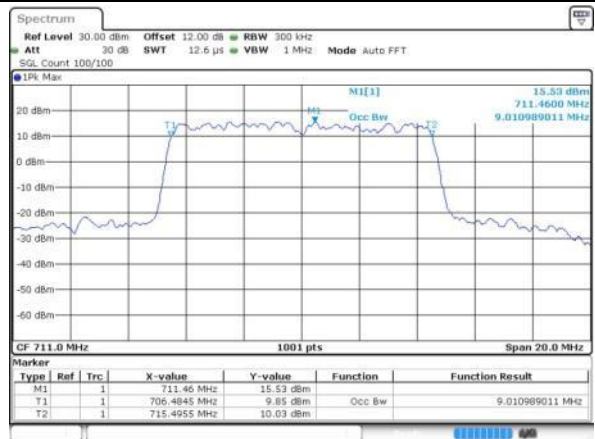
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



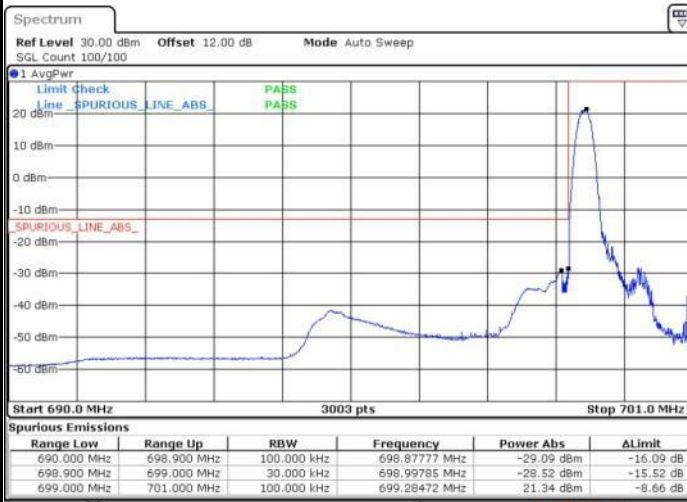


Conducted Band Edge



LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB



Date: 10 AUG 2015 10:31:48

Highest Band Edge / 1RB



Date: 10 AUG 2015 10:45:18

Lowest Band Edge / Full RB



Date: 10 AUG 2015 10:25:53

Highest Band Edge / Full RB



Date: 10 AUG 2015 10:39:23



LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



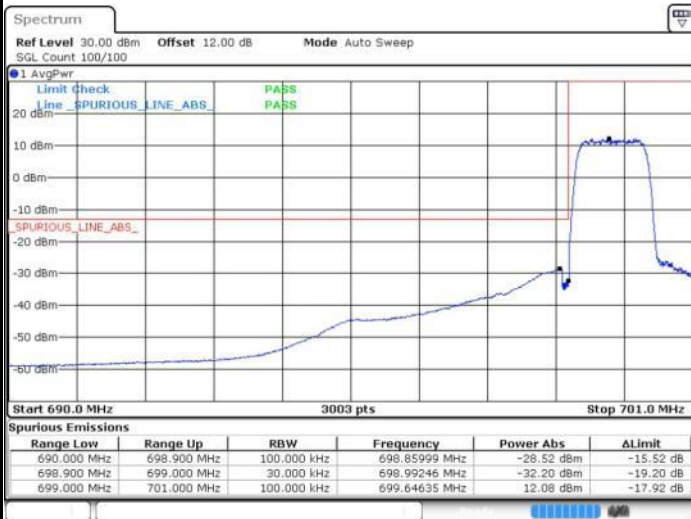
Date: 10 AUG 2015 10:29:50

Highest Band Edge / 1 RB



Date: 10 AUG 2015 10:43:20

Lowest Band Edge / Full RB



Date: 10 AUG 2015 10:27:52

Highest Band Edge / Full RB

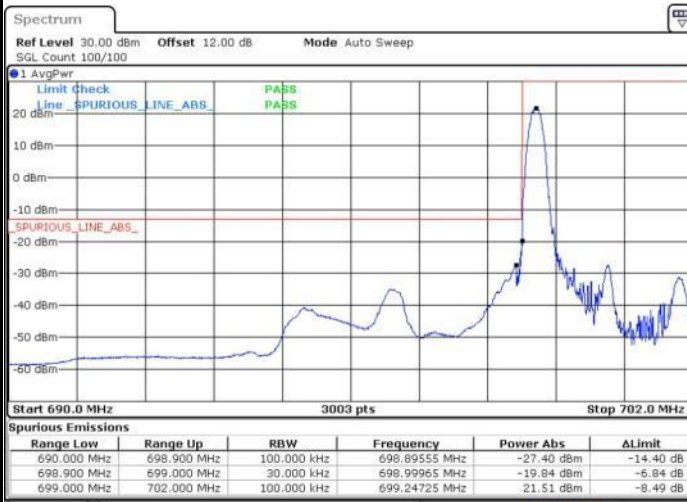


Date: 10 AUG 2015 21:23:29



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



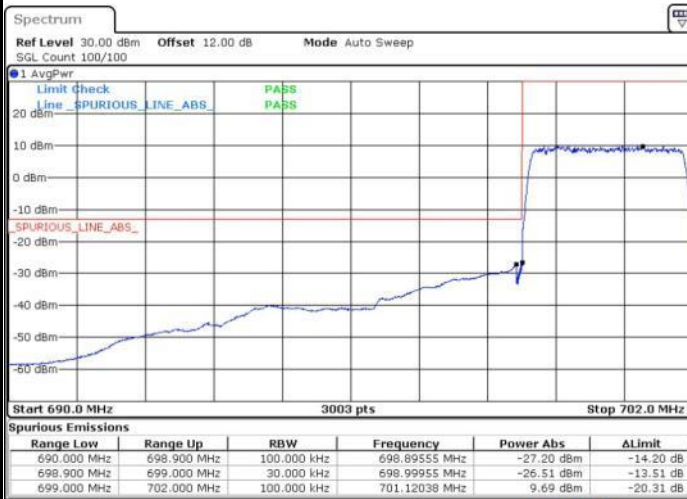
Date: 9 AUG 2015 17:41:36

Highest Band Edge / 1 RB



Date: 9 AUG 2015 17:54:15

Lowest Band Edge / Full RB



Date: 9 AUG 2015 17:35:53

Highest Band Edge / Full RB



Date: 9 AUG 2015 17:48:33