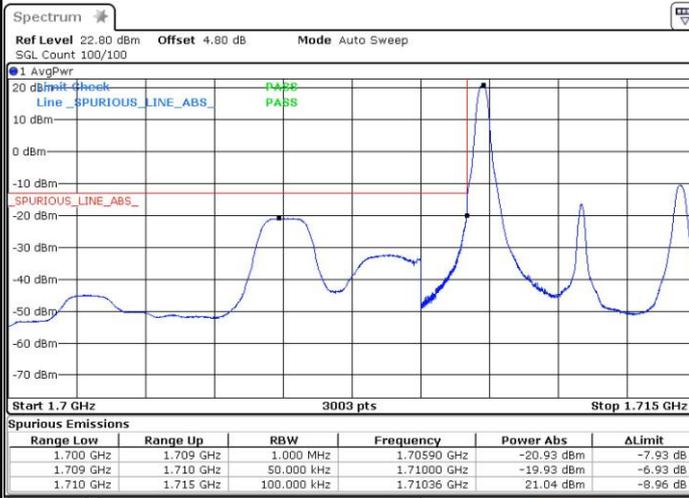




LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 19 JAN 2016 19:42:11

Highest Band Edge / 1 RB



Date: 19 JAN 2016 19:51:51

Lowest Band Edge / Full RB



Date: 19 JAN 2016 17:36:13

Highest Band Edge / Full RB

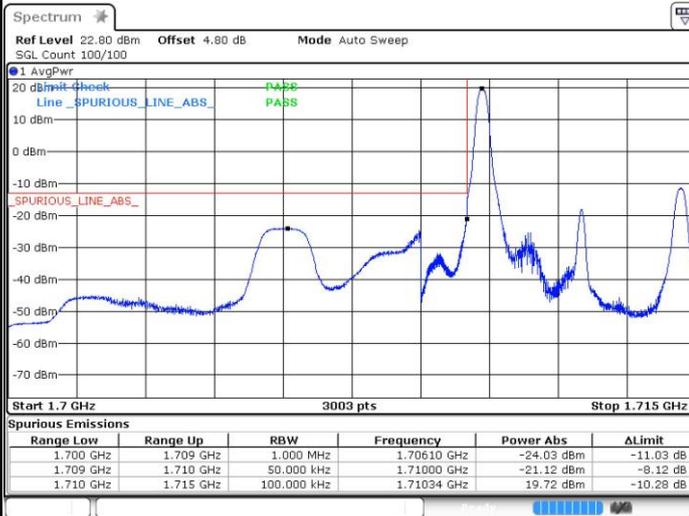


Date: 19 JAN 2016 17:45:54



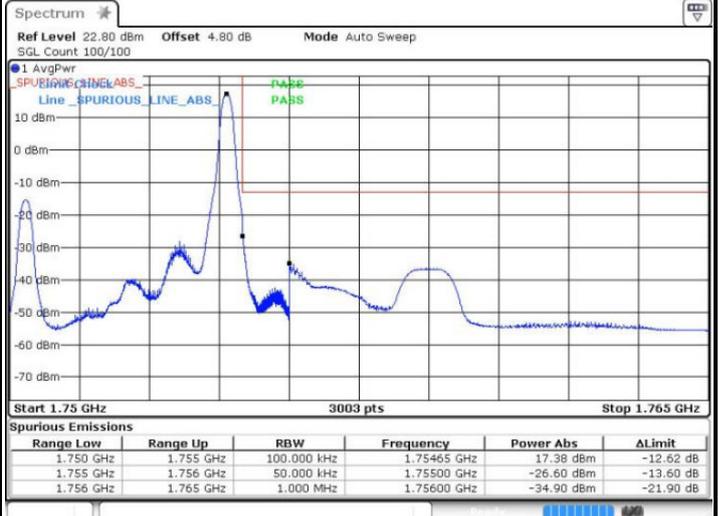
LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



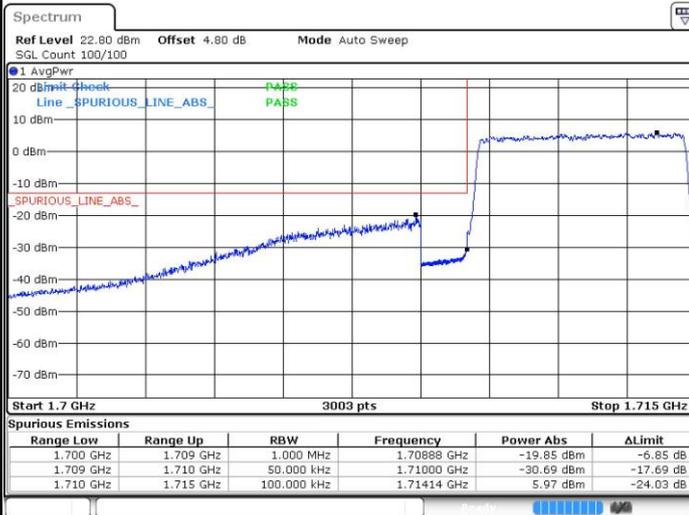
Date: 19 JAN 2016 19:36:40

Highest Band Edge / 1 RB



Date: 19 JAN 2016 19:45:45

Lowest Band Edge / Full RB



Date: 19 JAN 2016 17:37:22

Highest Band Edge / Full RB

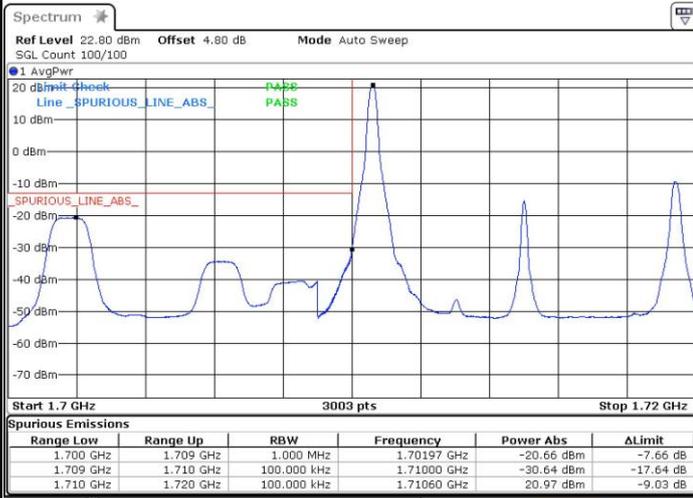


Date: 19 JAN 2016 17:47:02



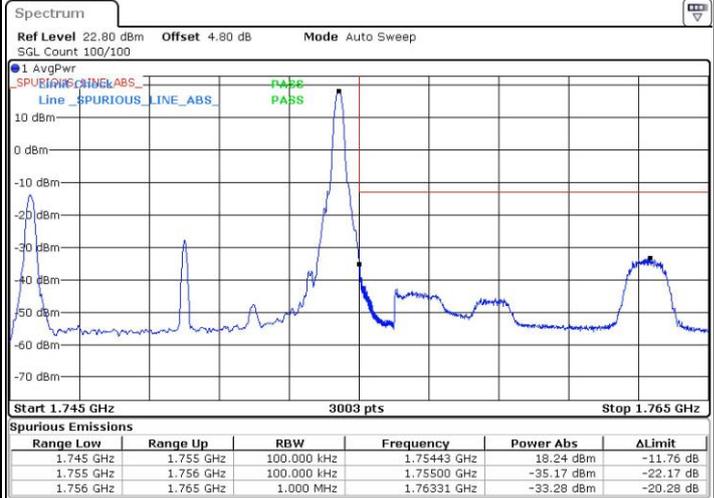
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



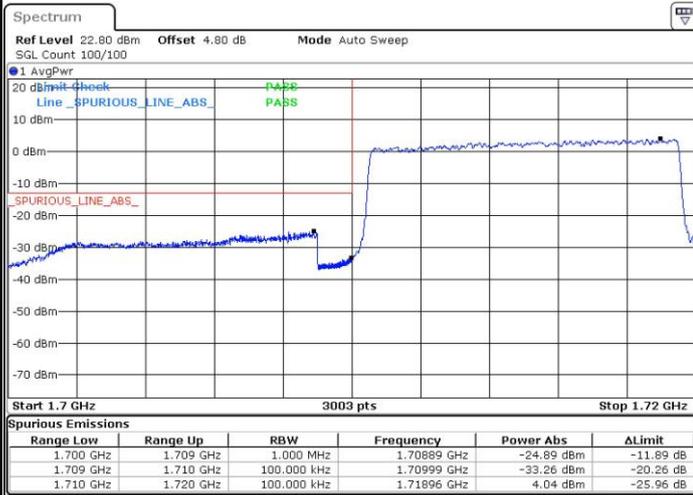
Date: 19 JAN 2016 20:05:24

Highest Band Edge / 1 RB



Date: 19 JAN 2016 18:00:24

Lowest Band Edge / Full RB



Date: 19 JAN 2016 17:53:00

Highest Band Edge / Full RB

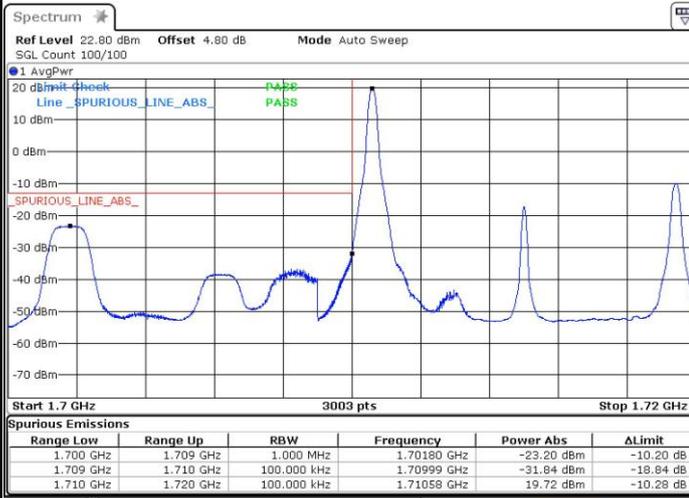


Date: 19 JAN 2016 18:02:41



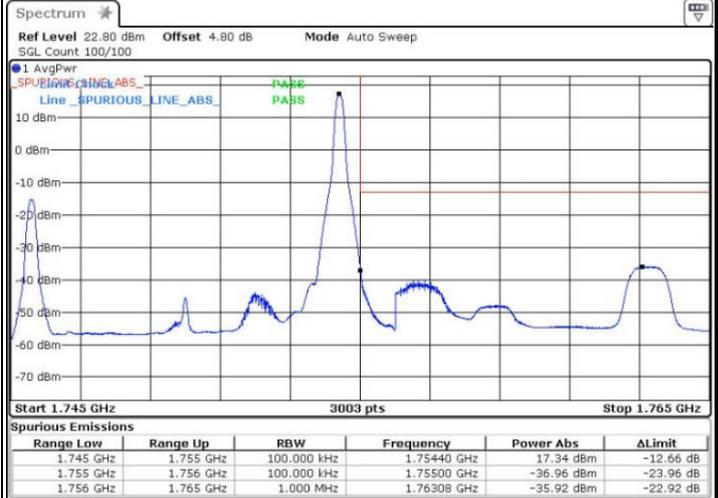
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



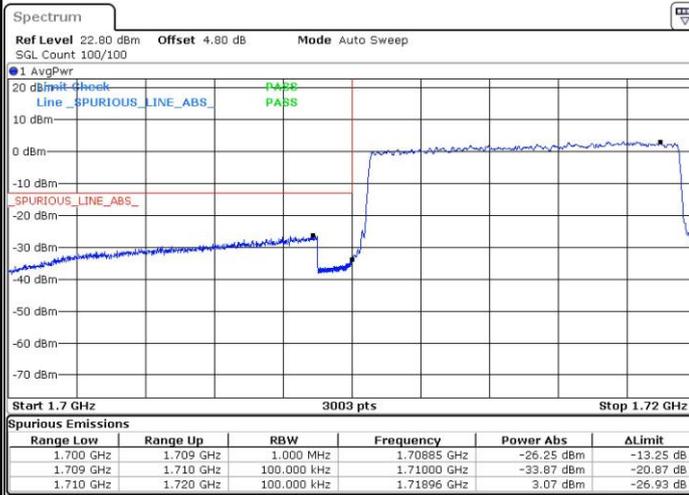
Date: 19 JAN 2016 19:56:38

Highest Band Edge / 1 RB



Date: 19 JAN 2016 20:09:53

Lowest Band Edge / Full RB



Date: 19 JAN 2016 17:54:09

Highest Band Edge / Full RB

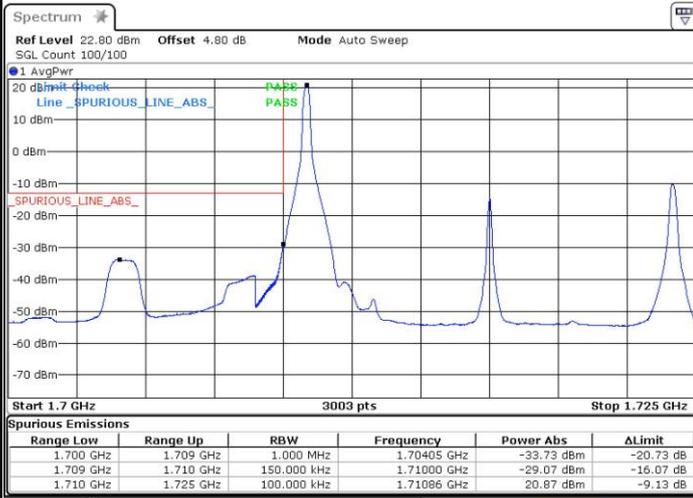


Date: 19 JAN 2016 18:03:49



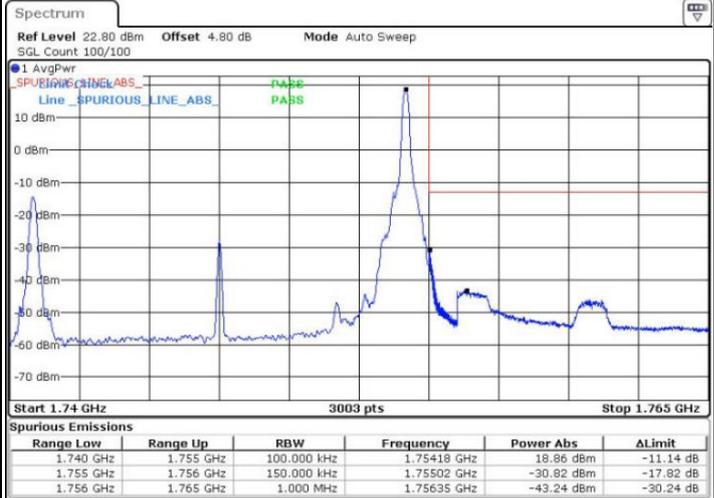
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



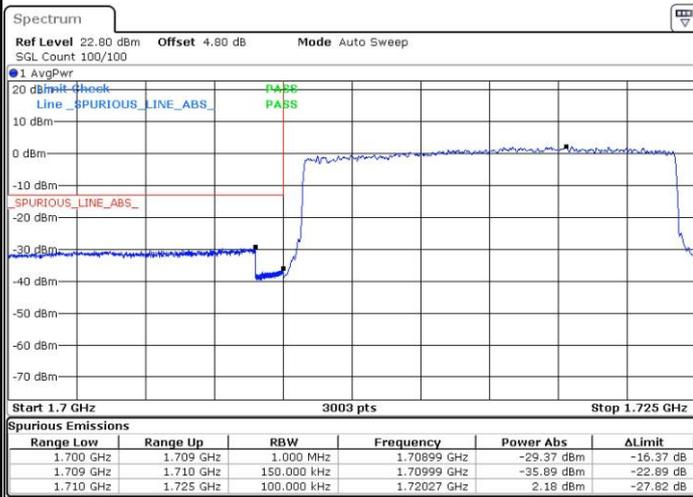
Date: 19 JAN 2016 20:23:38

Highest Band Edge / 1 RB



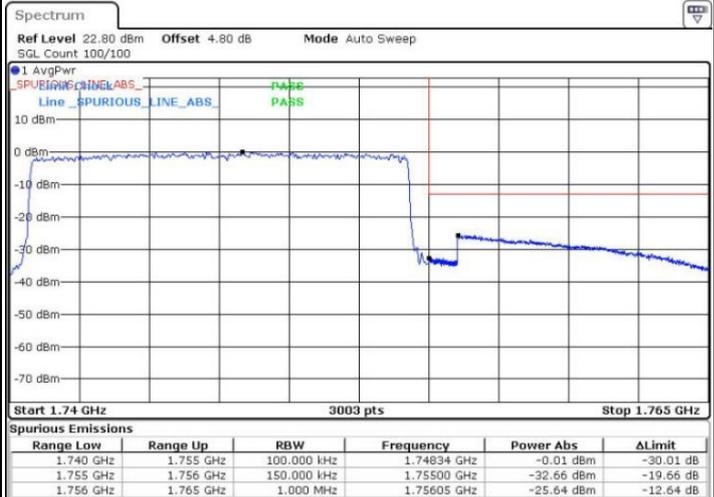
Date: 19 JAN 2016 18:17:10

Lowest Band Edge / Full RB



Date: 19 JAN 2016 18:09:47

Highest Band Edge / Full RB

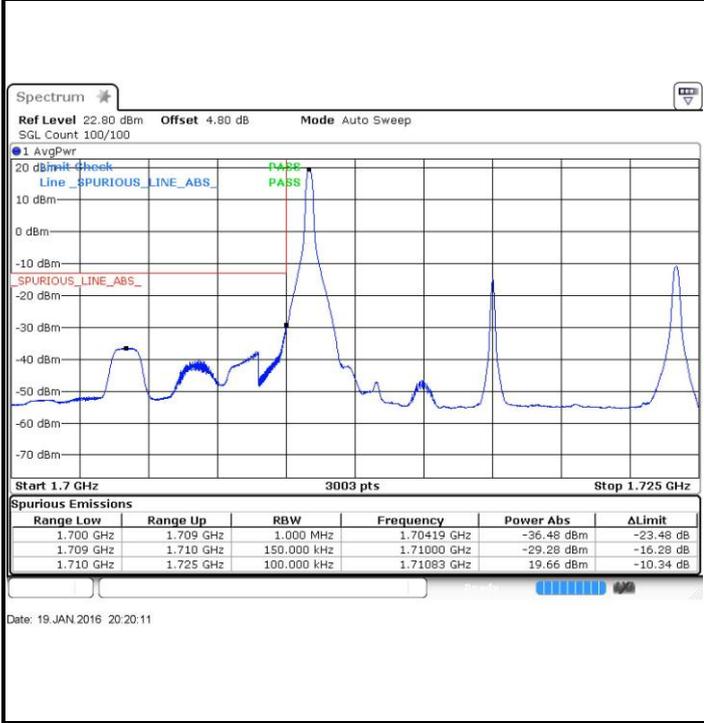


Date: 19 JAN 2016 18:19:27

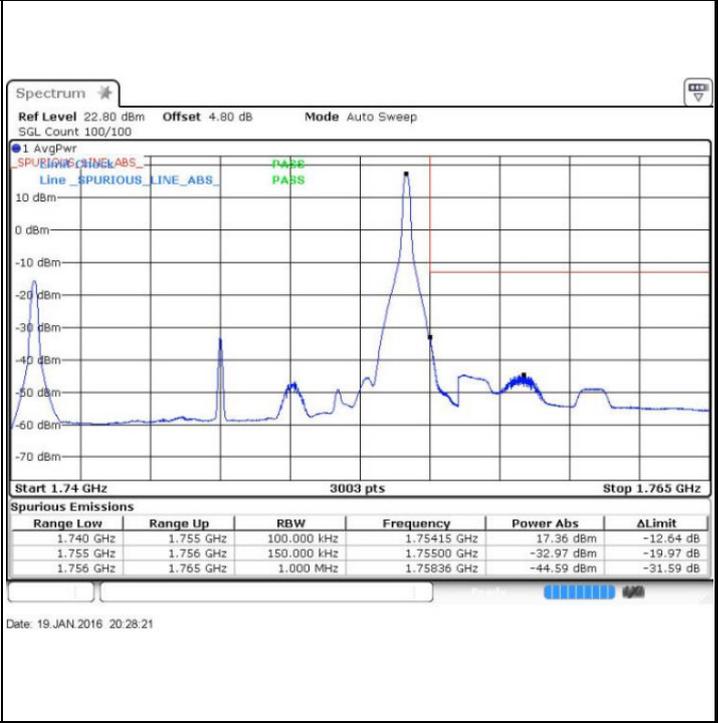


LTE Band 4 / 15MHz / 16QAM

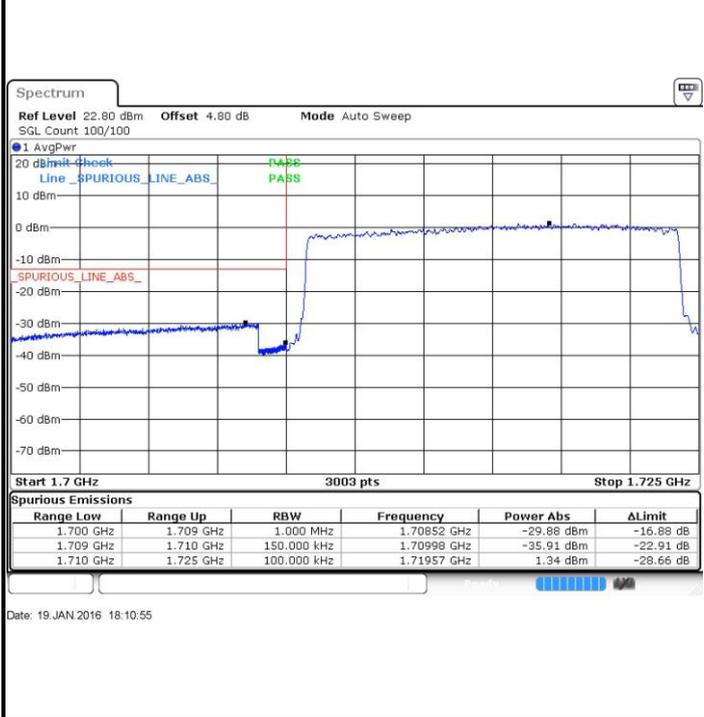
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



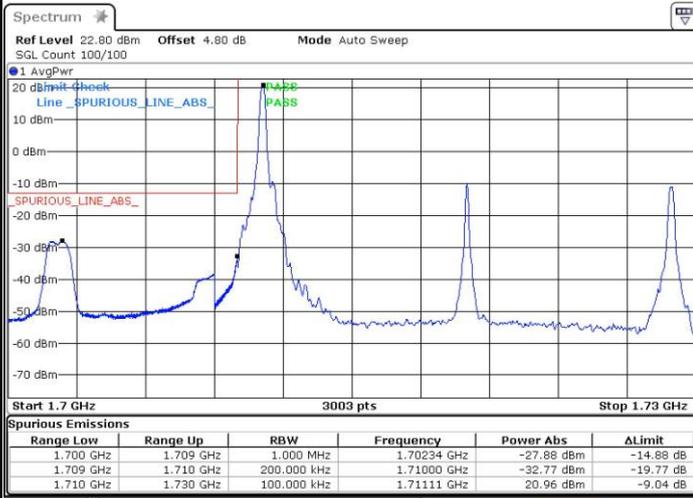
Highest Band Edge / Full RB





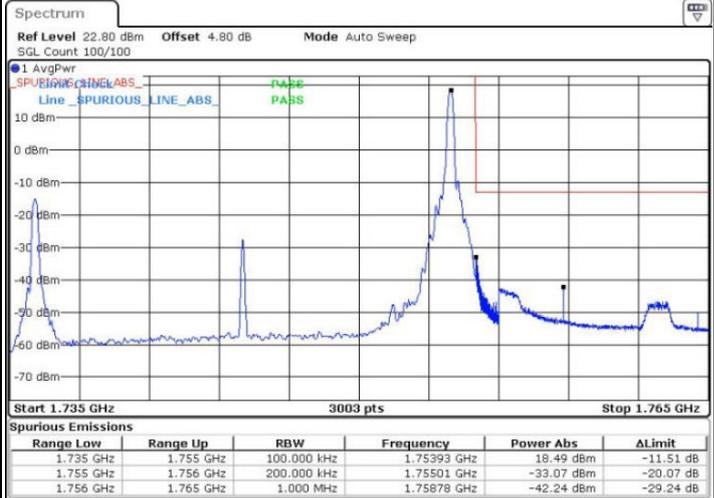
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



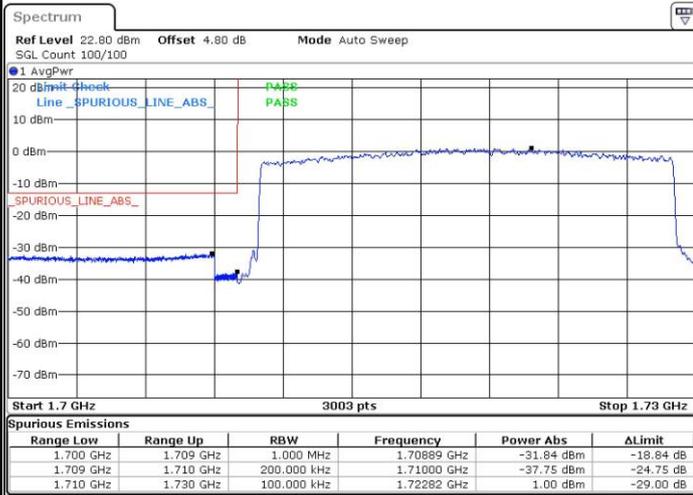
Date: 19 JAN 2016 19:03:40

Highest Band Edge / 1 RB



Date: 19 JAN 2016 18:33:57

Lowest Band Edge / Full RB



Date: 19 JAN 2016 18:26:33

Highest Band Edge / Full RB

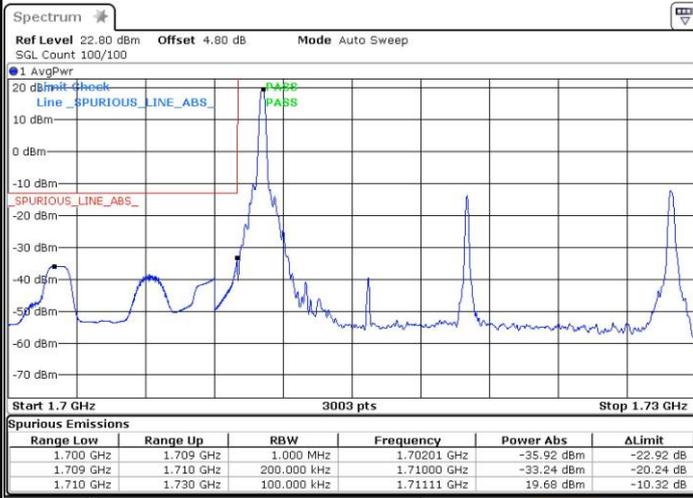


Date: 19 JAN 2016 18:36:14



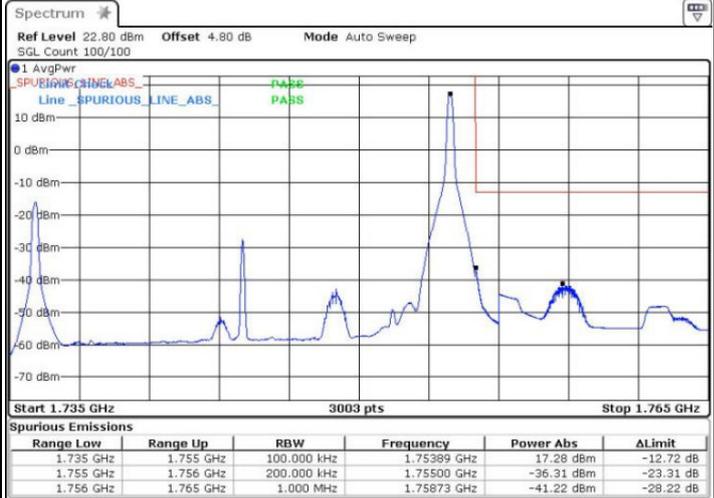
LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



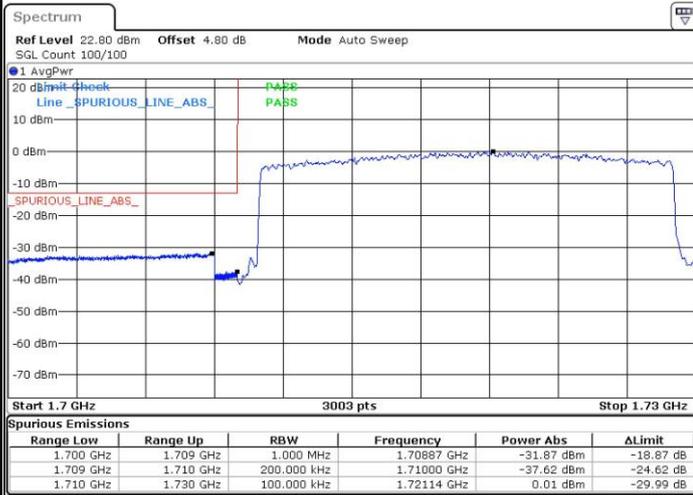
Date: 19 JAN 2016 18:59:37

Highest Band Edge / 1 RB



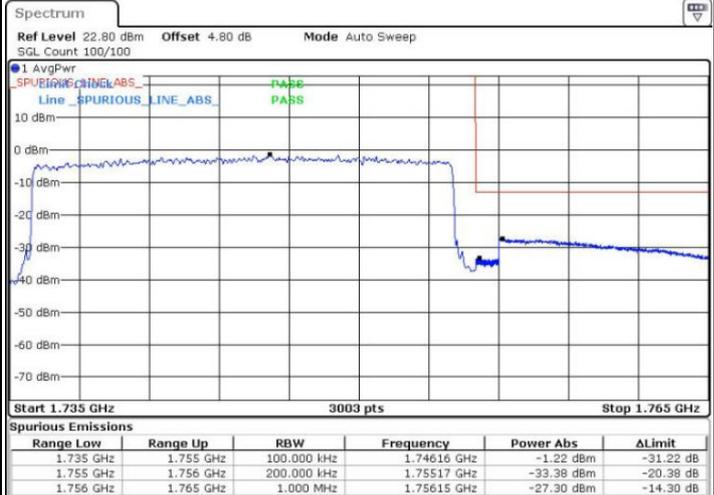
Date: 19 JAN 2016 20:39:18

Lowest Band Edge / Full RB



Date: 19 JAN 2016 18:27:41

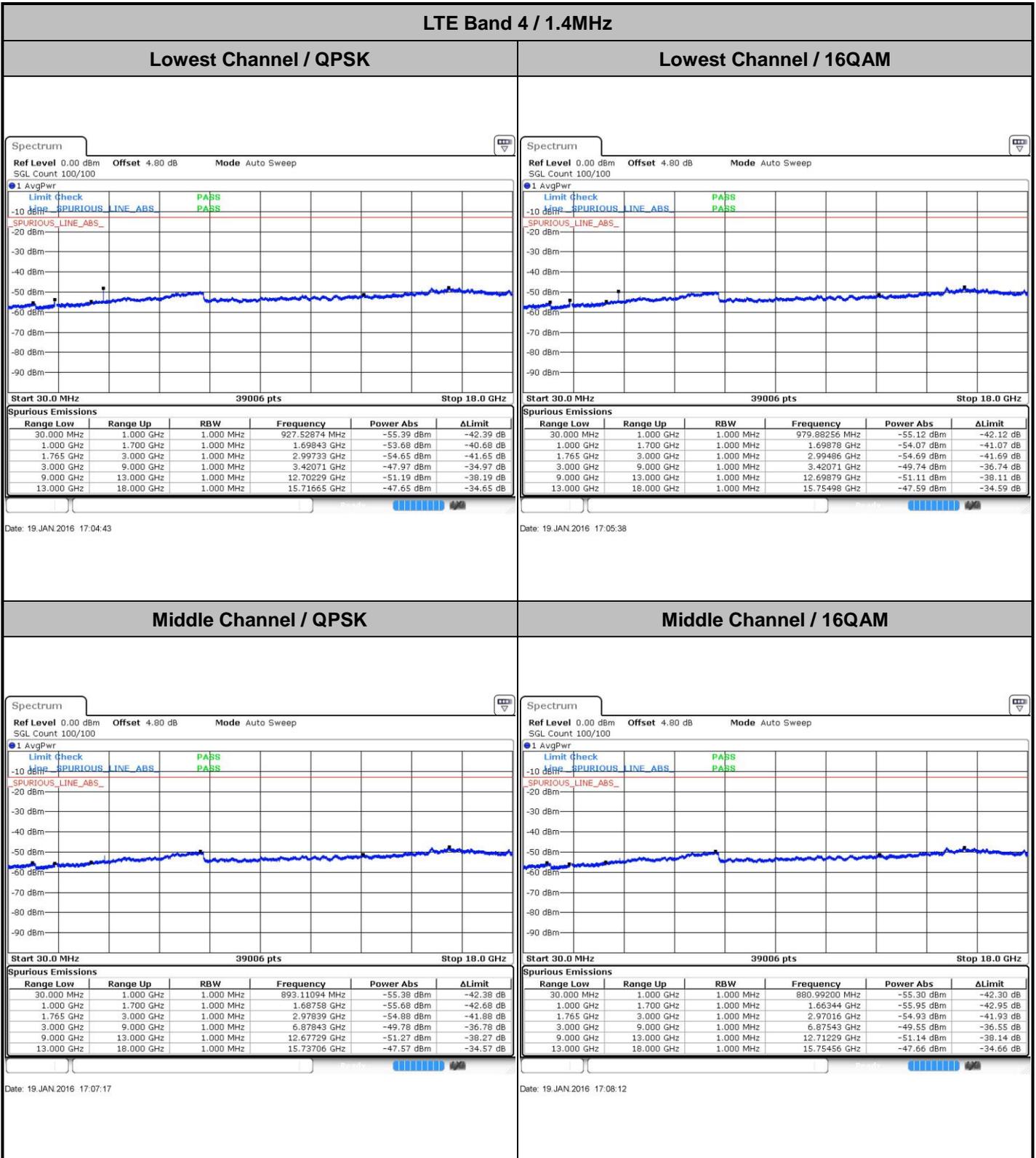
Highest Band Edge / Full RB



Date: 19 JAN 2016 18:37:22



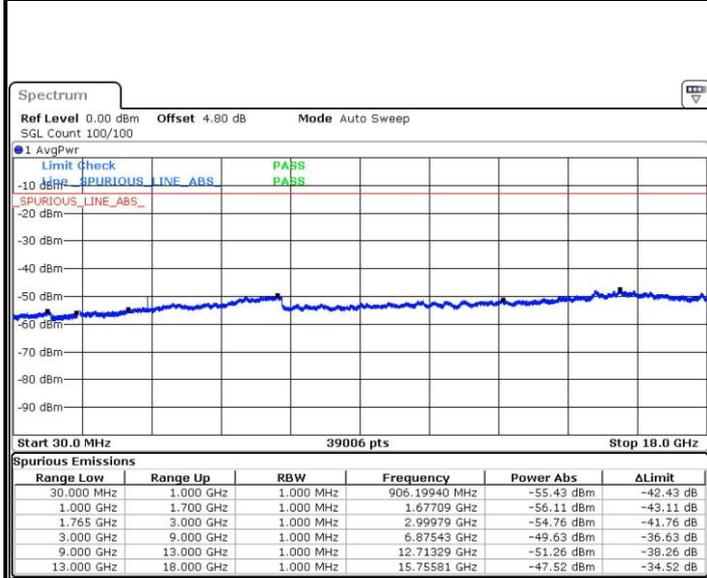
Conducted Spurious Emission





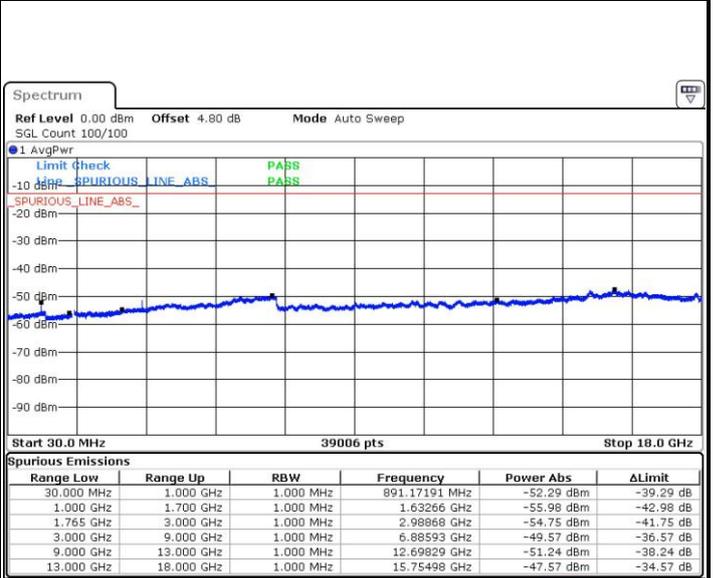
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 19 JAN 2016 17:14:23

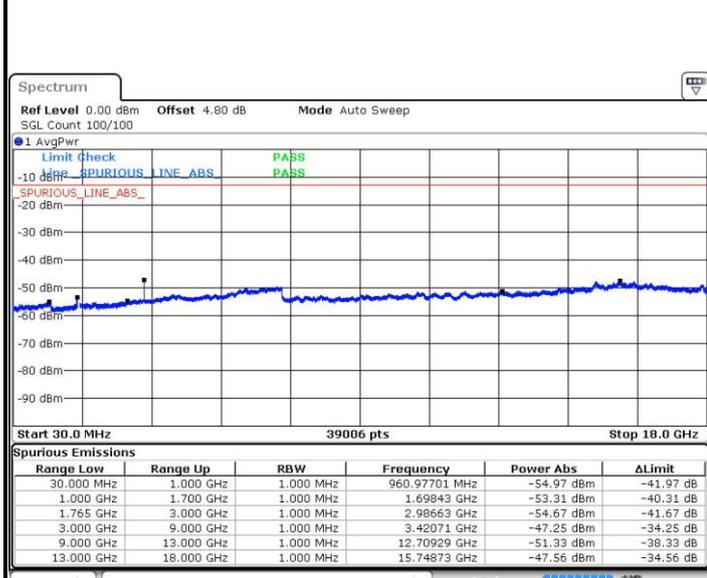
Highest Channel / 16QAM



Date: 19 JAN 2016 17:15:19

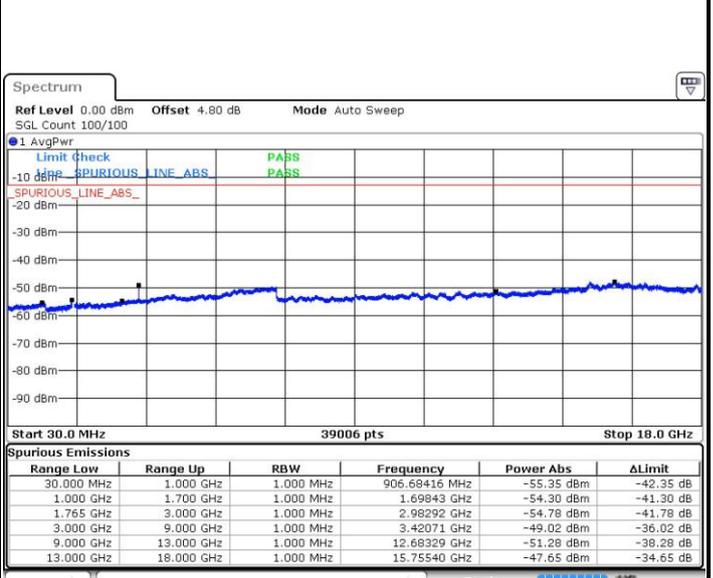
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 19 JAN 2016 17:21:29

Lowest Channel / 16QAM



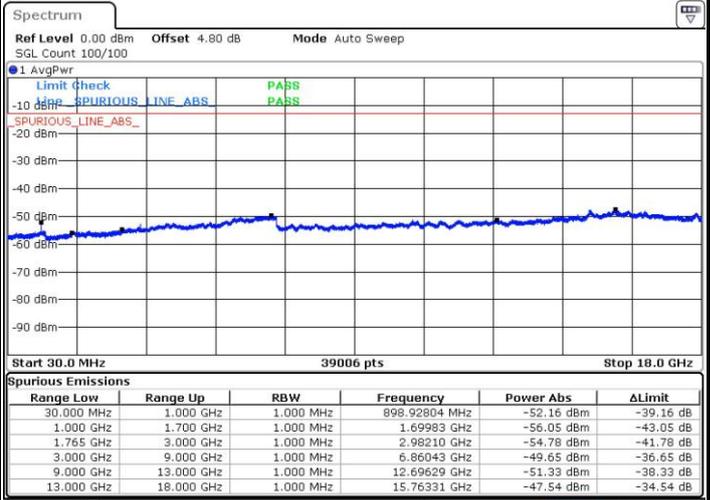
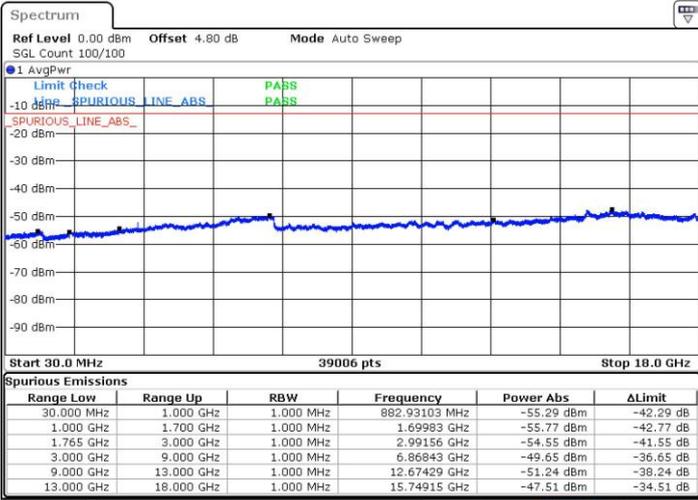
Date: 19 JAN 2016 17:22:25



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

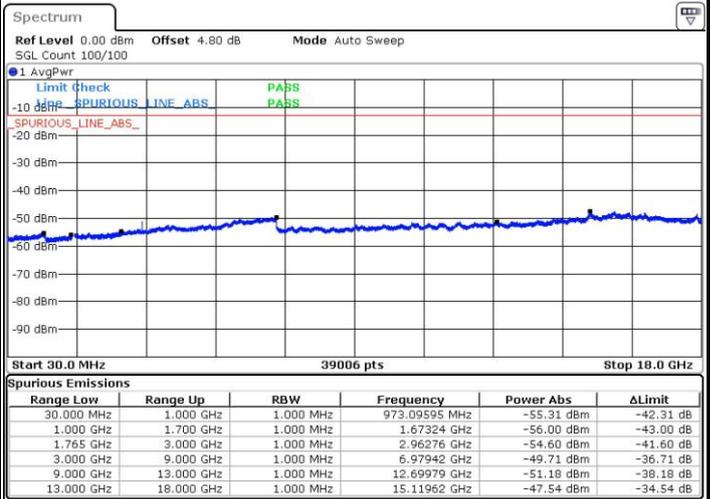
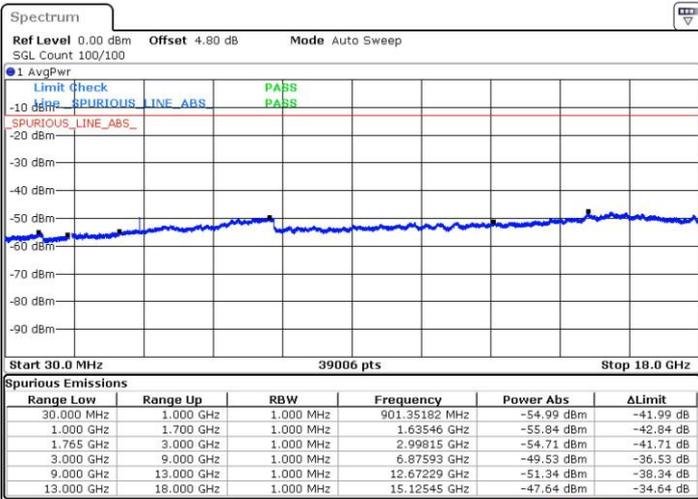


Date: 19 JAN 2016 17:24:03

Date: 19 JAN 2016 17:24:59

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19 JAN 2016 17:31:09

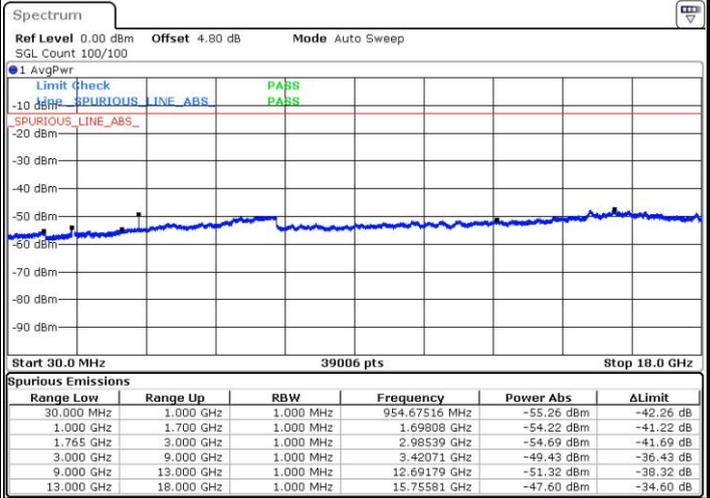
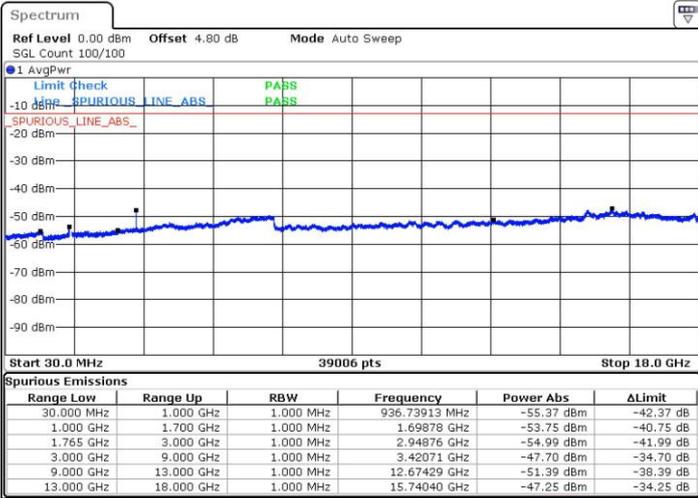
Date: 19 JAN 2016 17:32:05



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

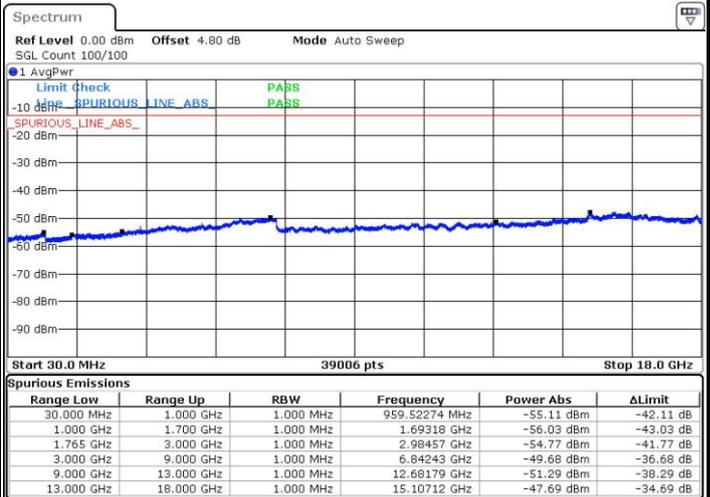
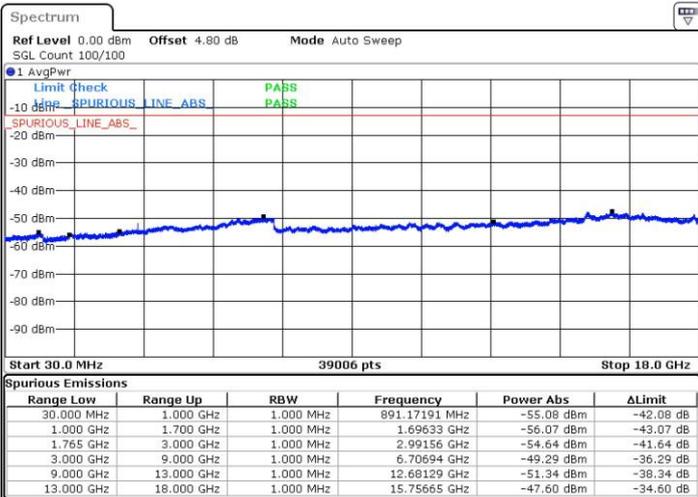


Date: 19 JAN 2016 17:38:16

Date: 19 JAN 2016 17:39:11

Middle Channel / QPSK

Middle Channel / 16QAM



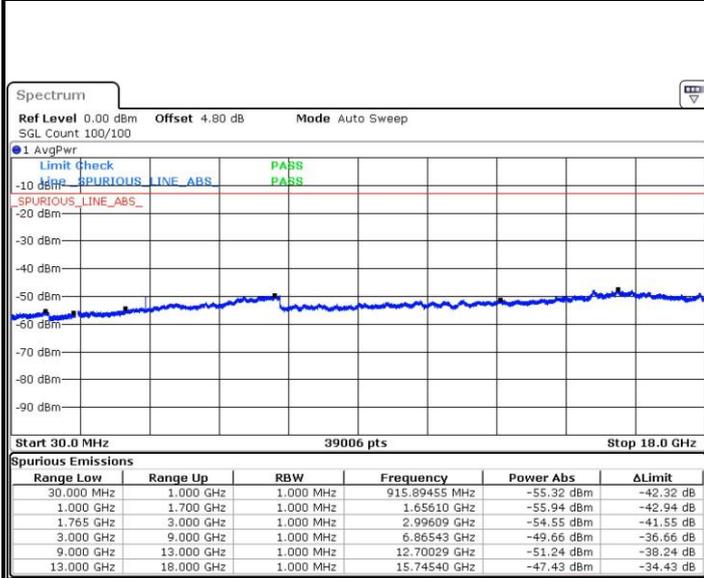
Date: 19 JAN 2016 17:40:50

Date: 19 JAN 2016 17:41:45



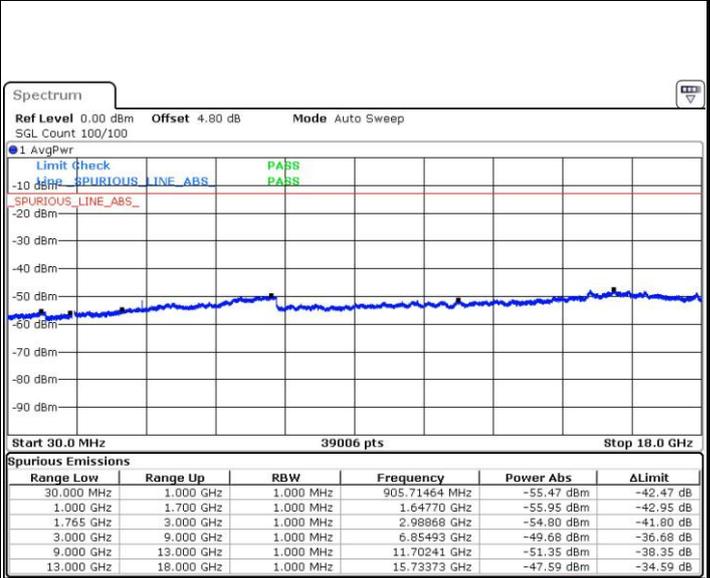
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 19 JAN 2016 17:47:57

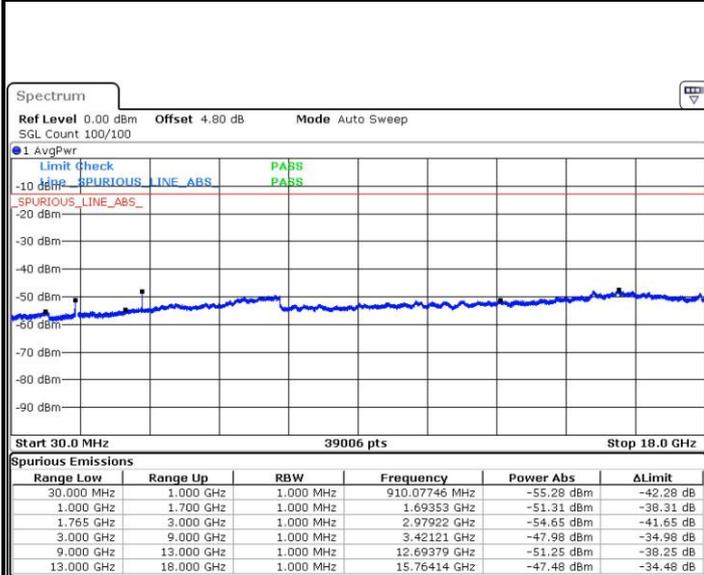
Highest Channel / 16QAM



Date: 19 JAN 2016 17:48:52

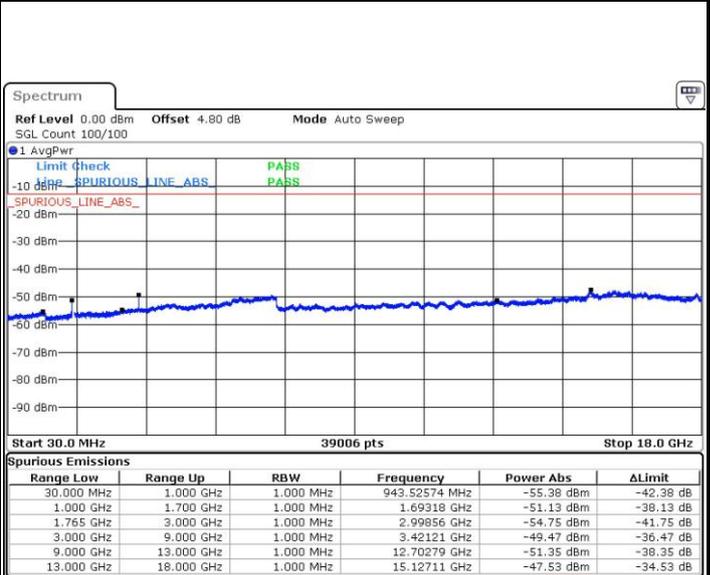
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 19 JAN 2016 17:55:03

Lowest Channel / 16QAM



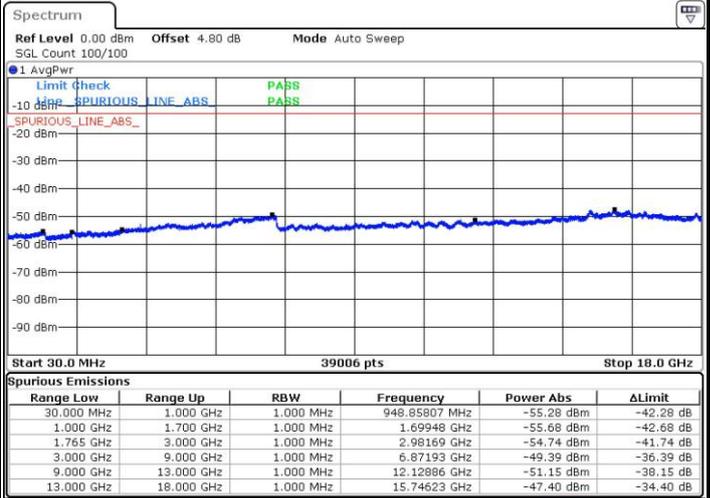
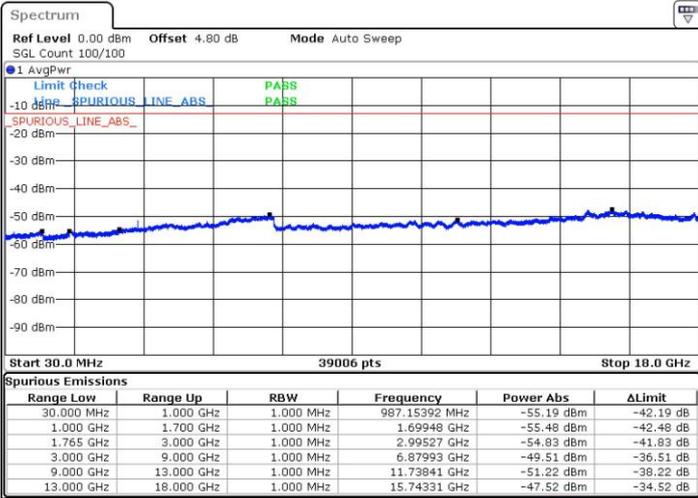
Date: 19 JAN 2016 17:55:58



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

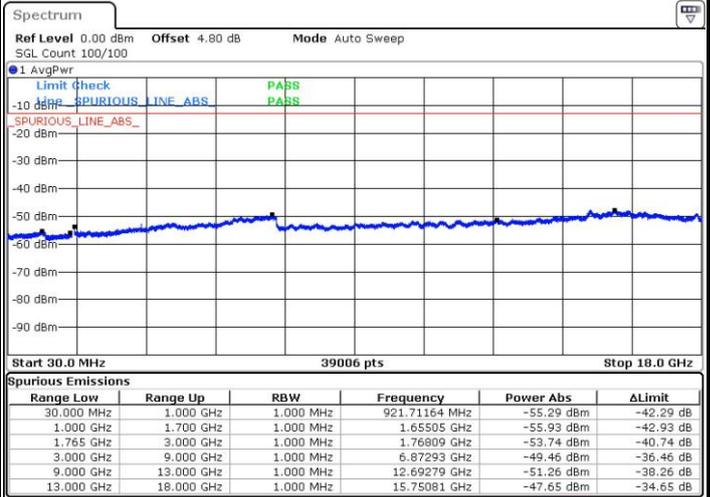
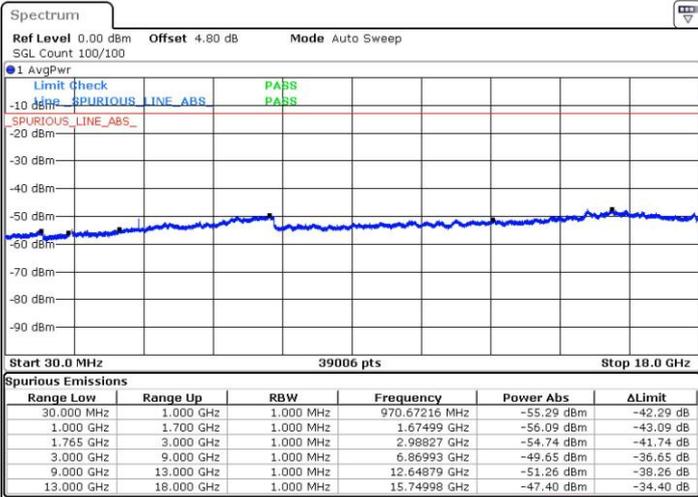


Date: 19 JAN 2016 17:57:37

Date: 19 JAN 2016 17:58:32

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19 JAN 2016 18:04:43

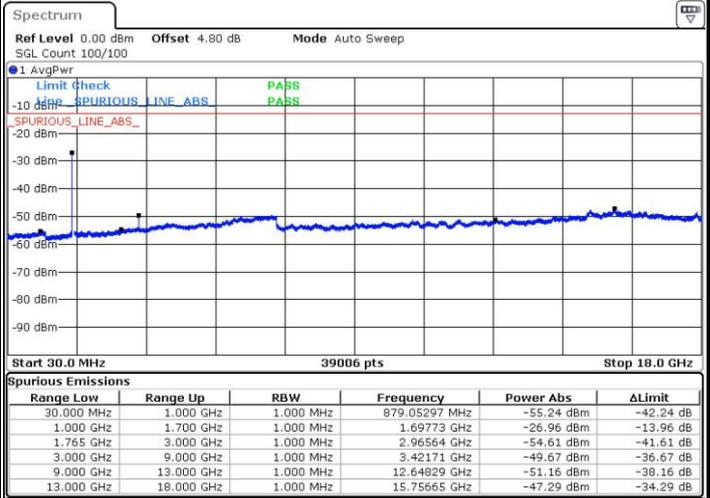
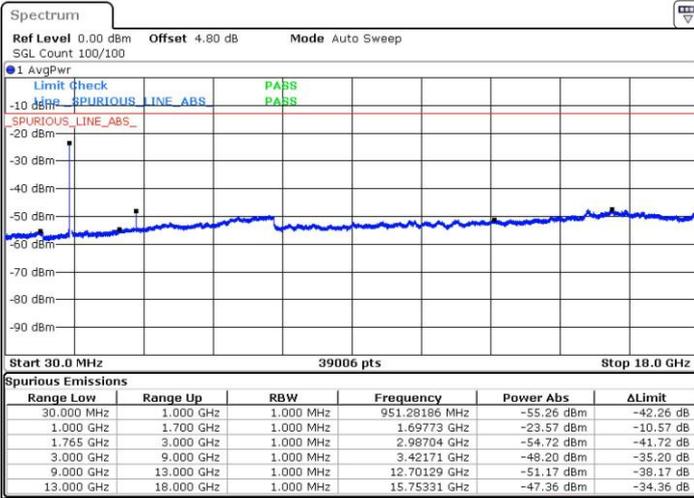
Date: 19 JAN 2016 18:05:38



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

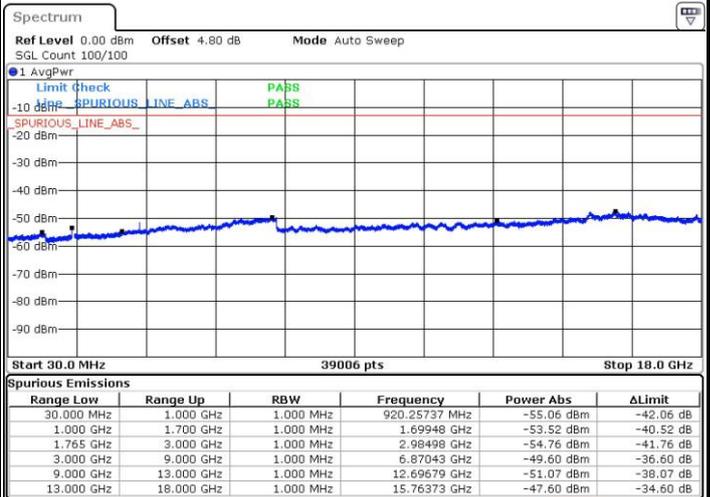
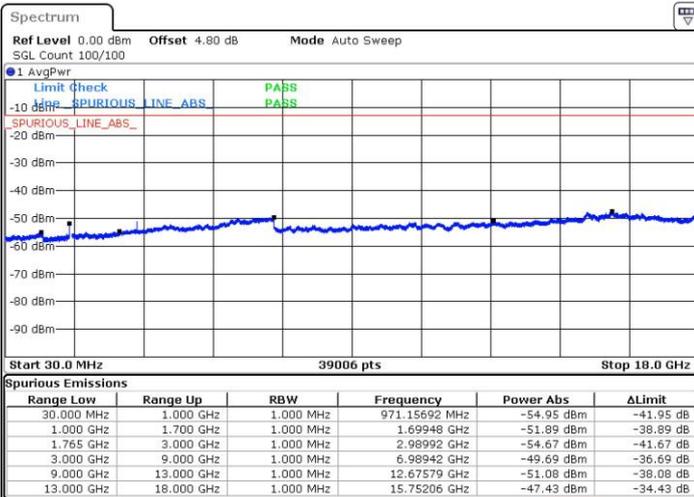


Date: 19 JAN 2016 18:11:49

Date: 19 JAN 2016 18:12:45

Middle Channel / QPSK

Middle Channel / 16QAM



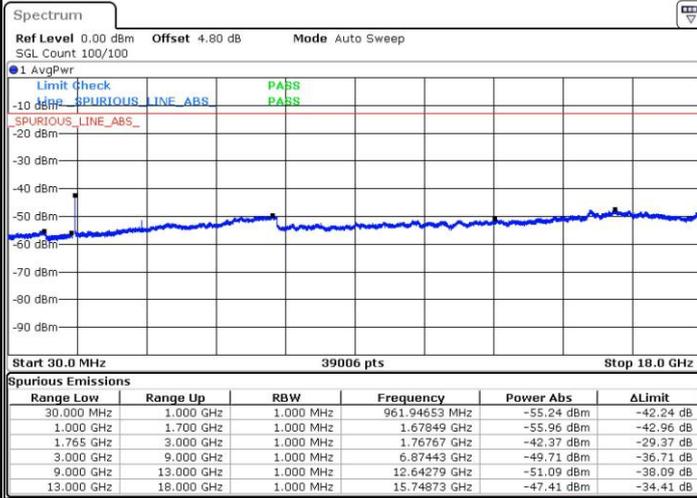
Date: 19 JAN 2016 18:14:23

Date: 19 JAN 2016 18:15:18



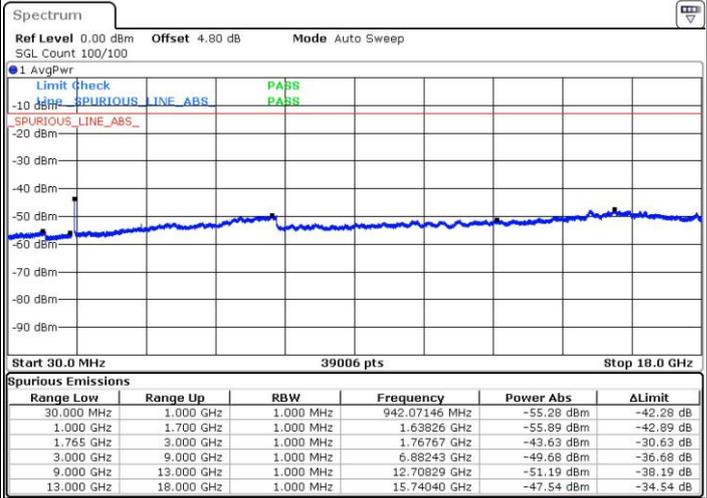
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 19 JAN 2016 18:21:29

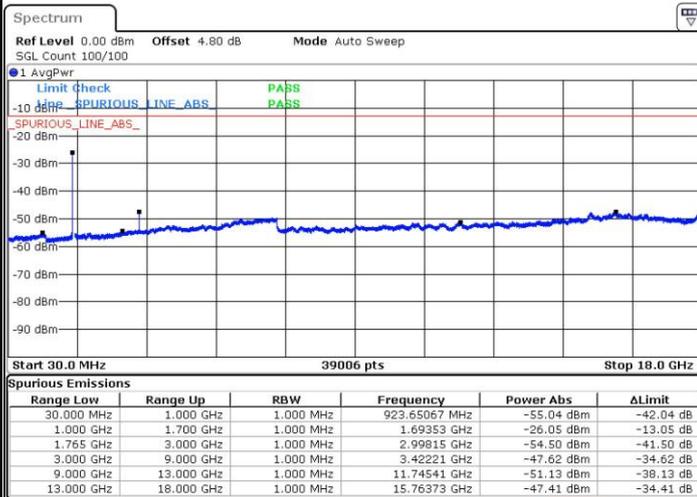
Highest Channel / 16QAM



Date: 19 JAN 2016 18:22:25

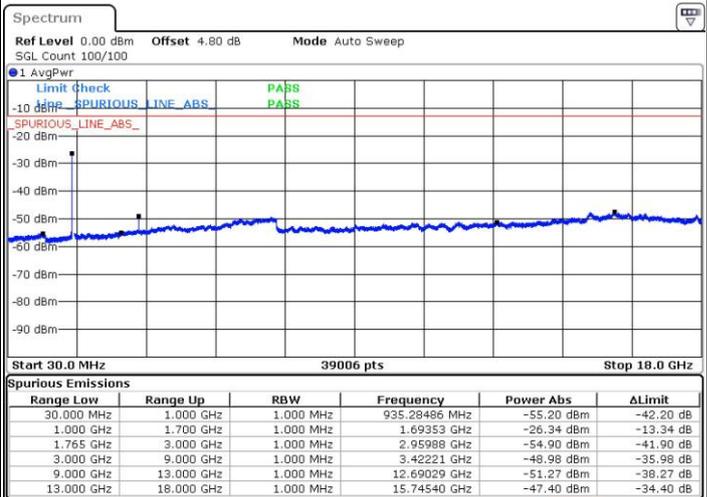
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 19 JAN 2016 18:28:35

Lowest Channel / 16QAM



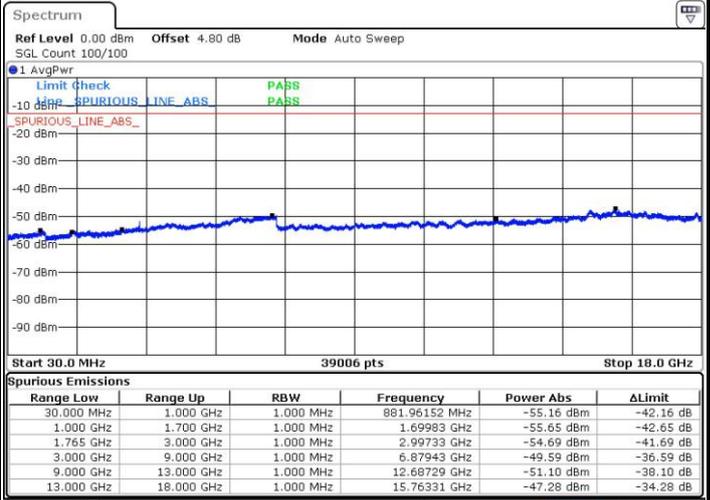
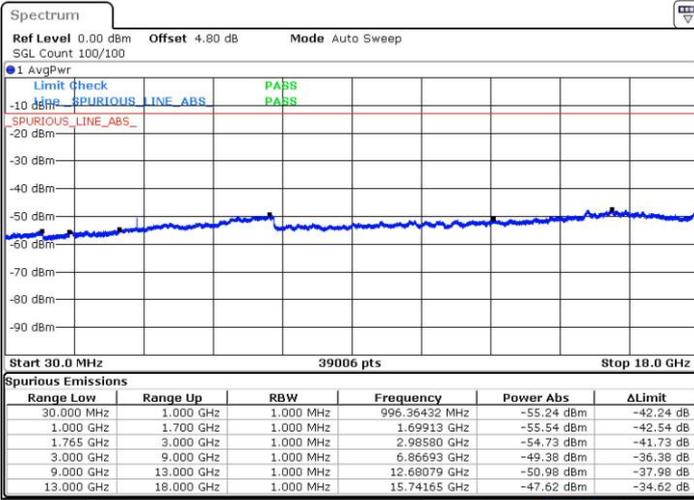
Date: 19 JAN 2016 18:29:31



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

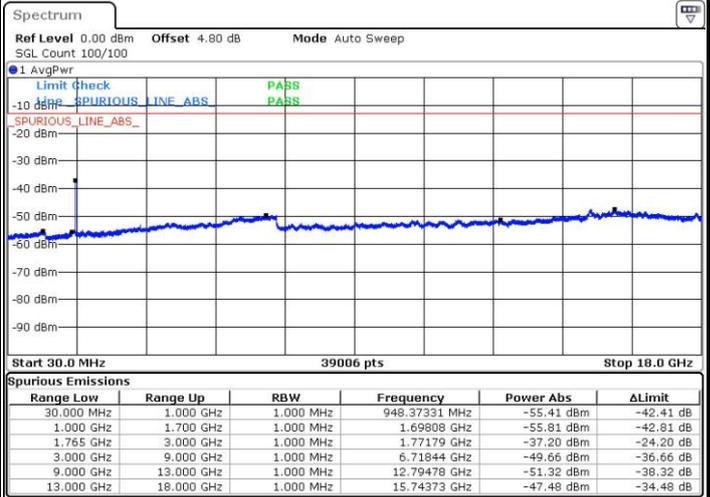
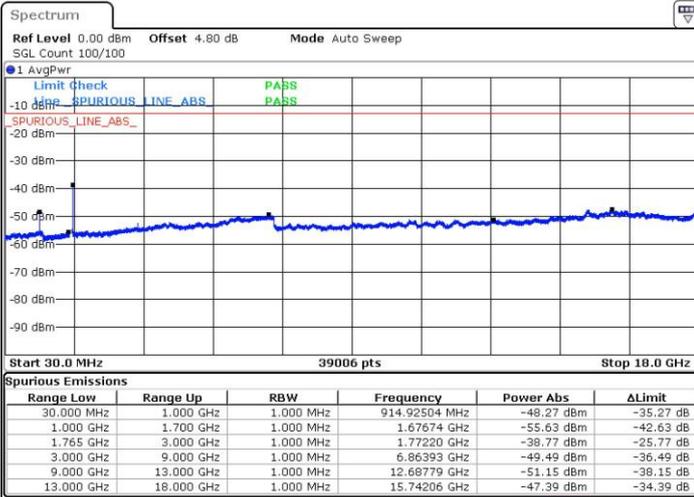


Date: 19 JAN 2016 18:31:09

Date: 19 JAN 2016 18:32:05

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19 JAN 2016 18:38:16

Date: 19 JAN 2016 18:39:11



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	0.0006	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0038	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 5

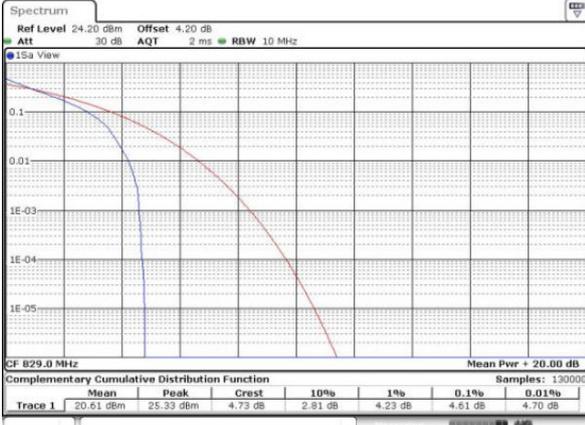
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	4.61	5.16	5.71	5.97	PASS
Middle CH	4.93	5.54	6.09	6.43	
Highest CH	5.25	5.25	6.23	6.12	



LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 18 JAN 2016 20:29:00

Lowest Channel / Full RB



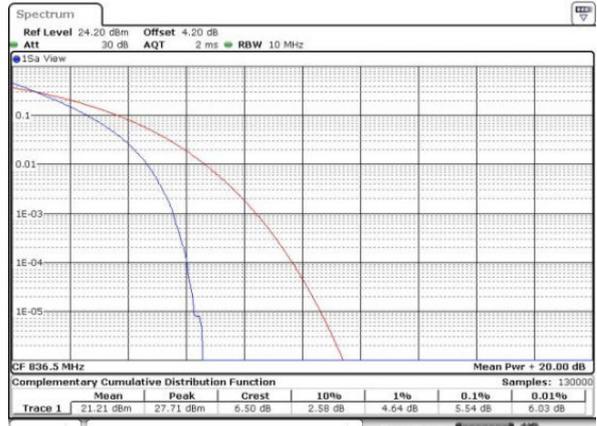
Date: 18 JAN 2016 20:29:17

Middle Channel / 1RB



Date: 18 JAN 2016 20:29:34

Middle Channel / Full RB



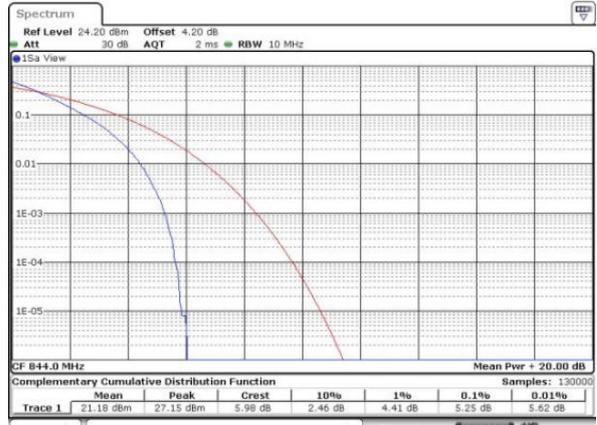
Date: 18 JAN 2016 20:29:49

Highest Channel / 1RB



Date: 18 JAN 2016 20:30:09

Highest Channel / Full RB

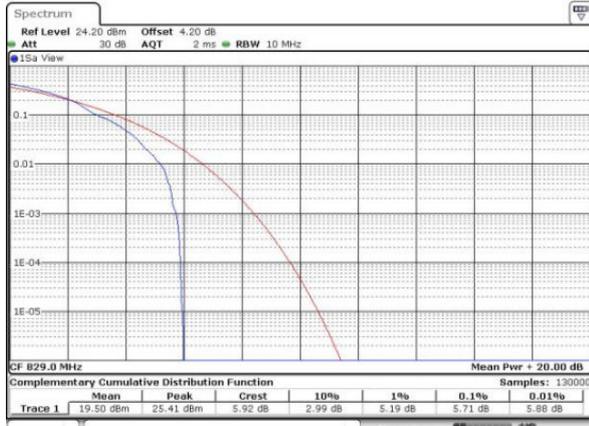


Date: 18 JAN 2016 20:30:23



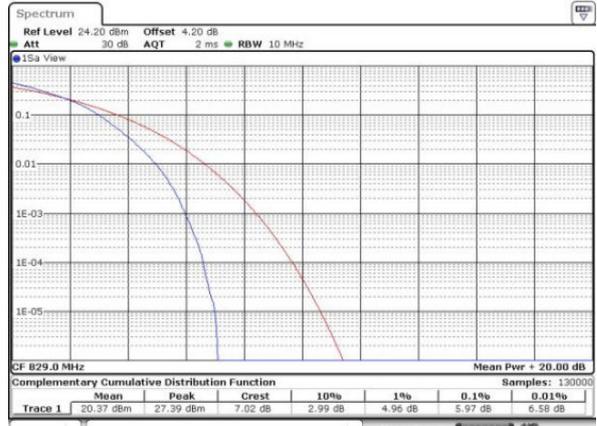
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



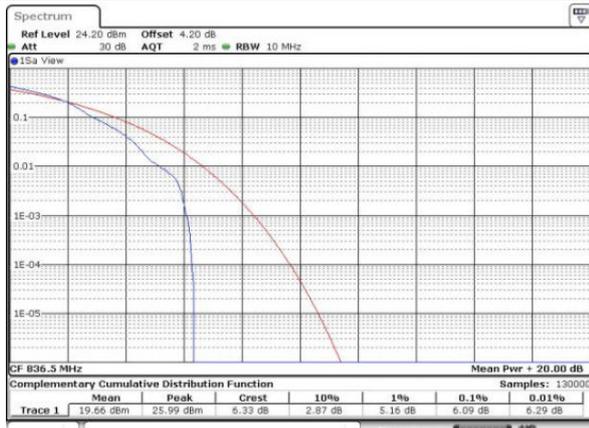
Date: 18 JAN 2016 20:27:24

Lowest Channel / Full RB



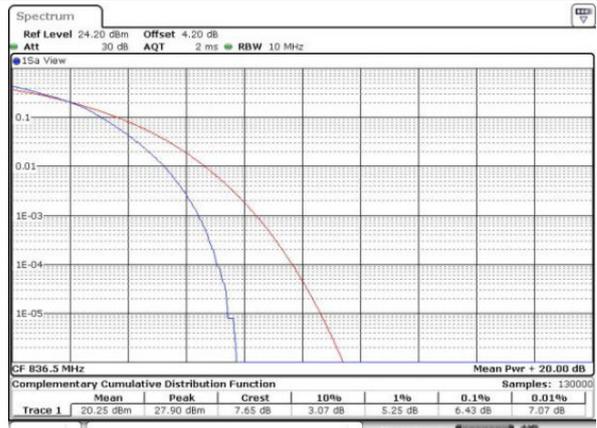
Date: 18 JAN 2016 20:27:34

Middle Channel / 1RB



Date: 18 JAN 2016 20:27:44

Middle Channel / Full RB



Date: 18 JAN 2016 20:27:54

Highest Channel / 1RB



Date: 18 JAN 2016 20:28:04

Highest Channel / Full RB



Date: 18 JAN 2016 20:28:14



26dB Bandwidth

Mode	LTE Band 5 : 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	1.25	1.28	3.01	3.01	4.94	4.85	9.75	9.67	-	-	-	-
Middle CH	1.29	1.27	3.02	3	4.86	4.93	9.77	9.81	-	-	-	-
Highest CH	1.26	1.29	3.01	2.99	4.99	4.9	9.63	9.69	-	-	-	-