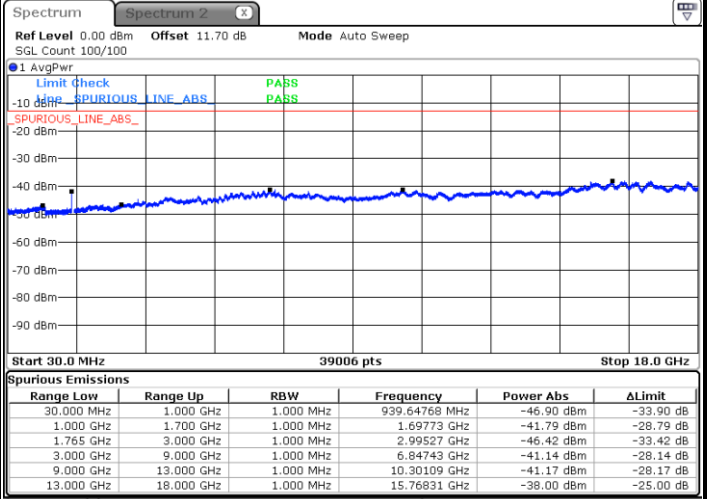
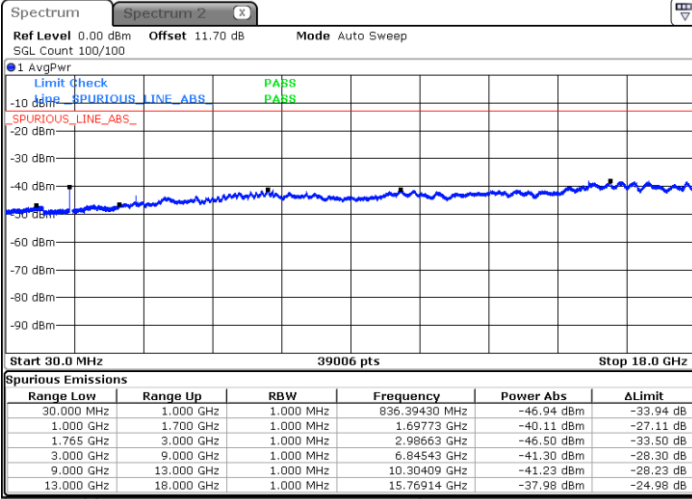




LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

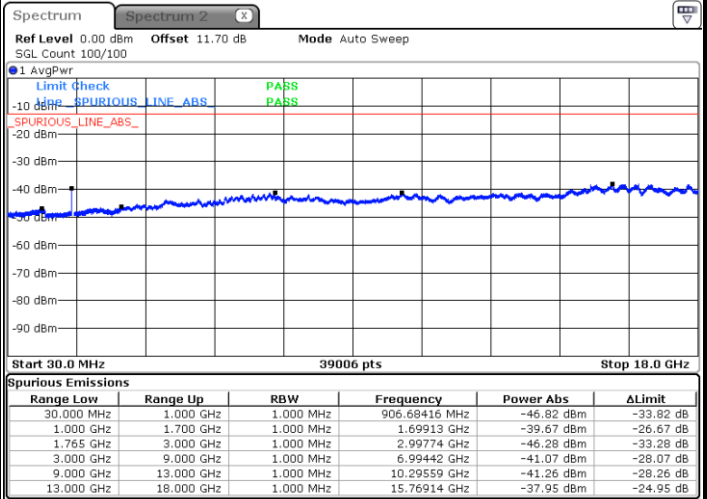
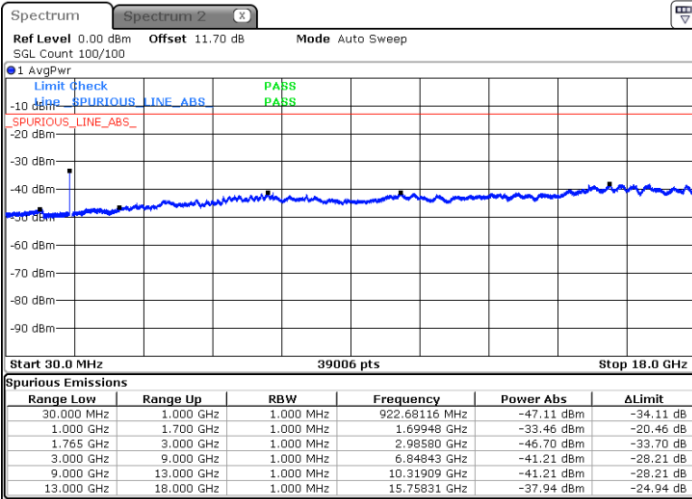


Date: 8 AUG.2017 20:20:50

Date: 8 AUG.2017 20:21:44

Middle Channel / QPSK

Middle Channel / 16QAM



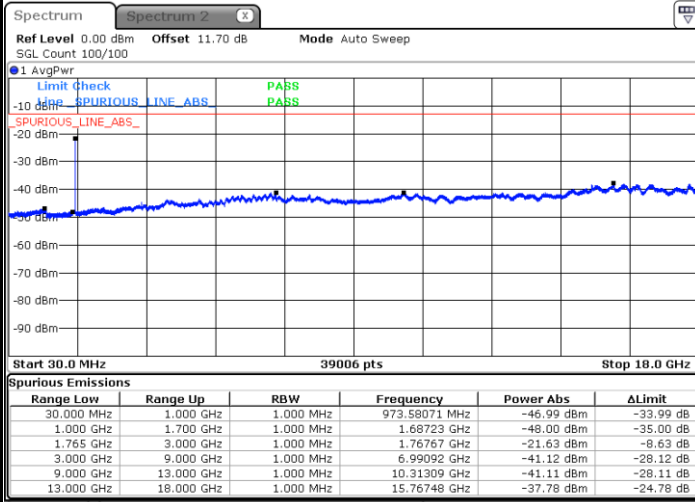
Date: 8 AUG.2017 20:23:18

Date: 8 AUG.2017 20:24:12



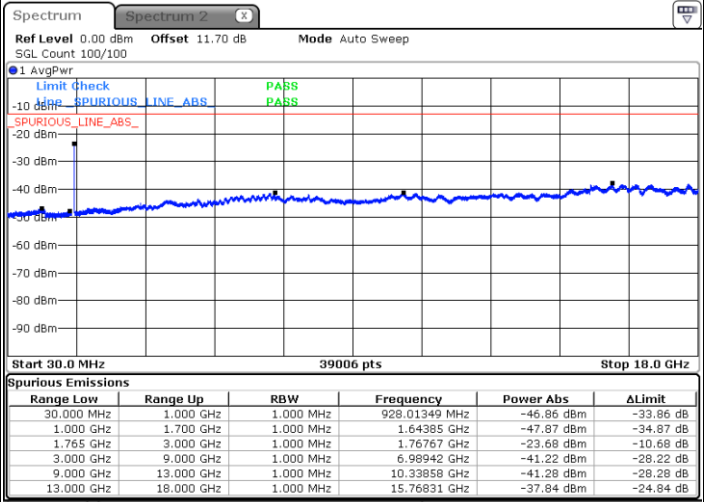
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 8 AUG.2017 20:30:21

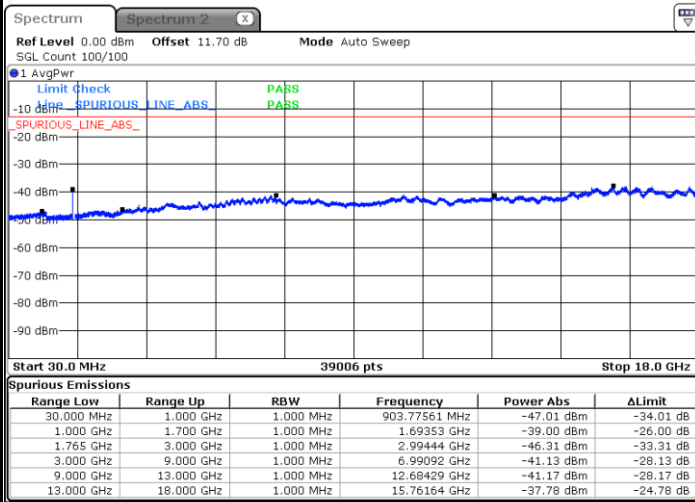
Highest Channel / 16QAM



Date: 8 AUG.2017 20:31:15

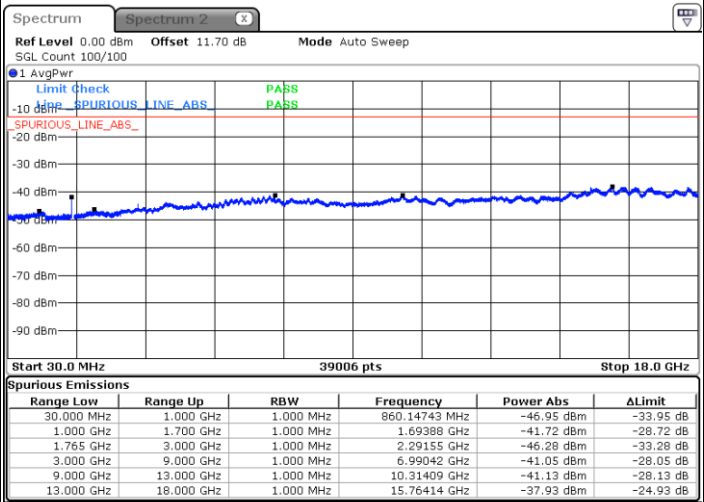
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 8 AUG.2017 20:37:24

Lowest Channel / 16QAM



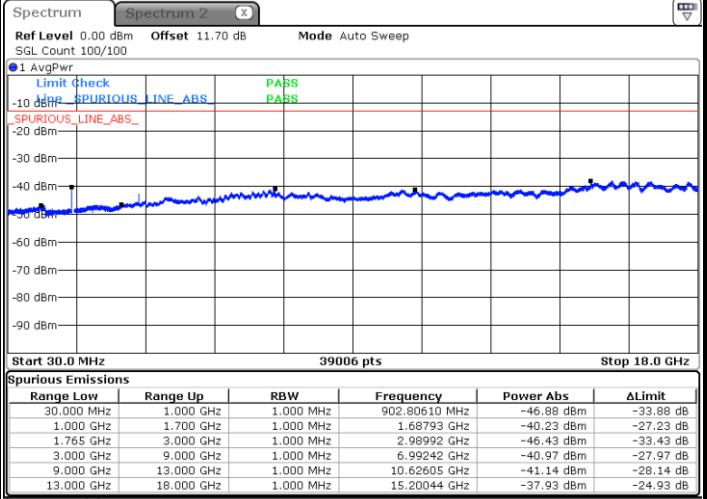
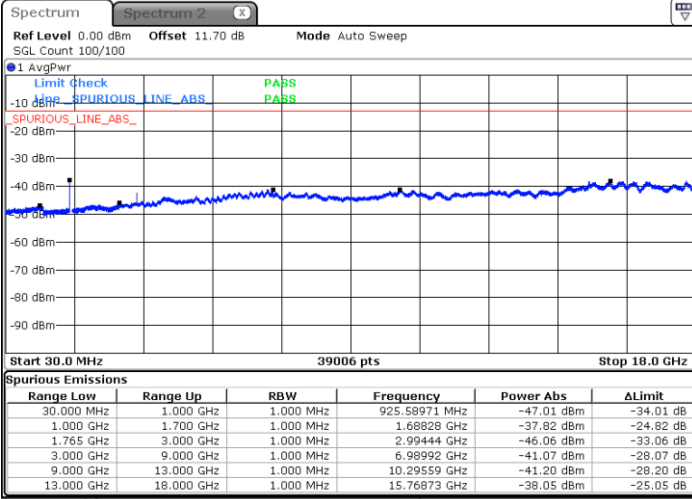
Date: 8 AUG.2017 20:38:18



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

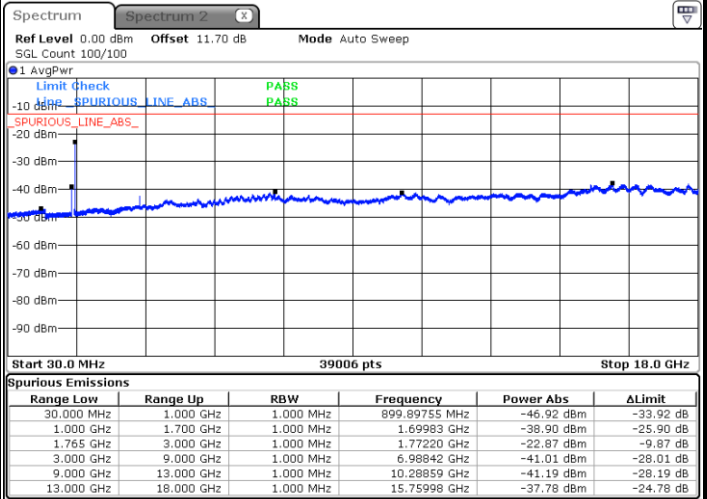
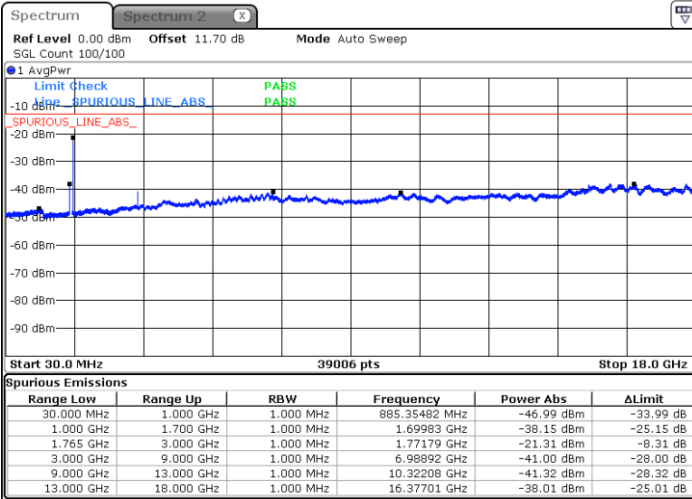


Date: 8 AUG.2017 20:39:53

Date: 8 AUG.2017 20:40:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 8 AUG.2017 20:46:56

Date: 8 AUG.2017 20:47:50



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	0.0092	PASS
40	Normal Voltage	0.0098	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0088	
0	Normal Voltage	0.0083	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0086	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0096	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 5

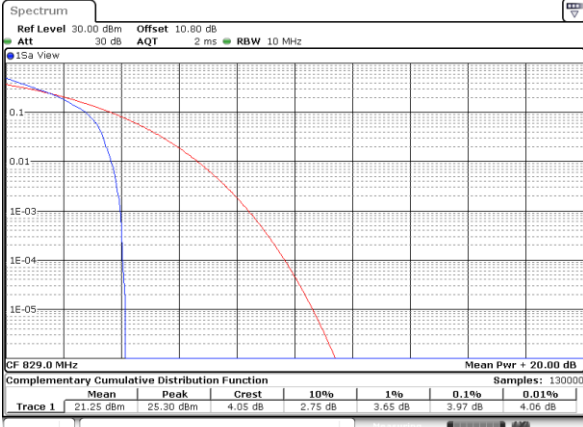
### Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.97	5.28	4.87	6.03	<b>PASS</b>
Middle CH	4.58	5.28	5.36	6.12	
Highest CH	4.41	4.96	5.42	5.77	



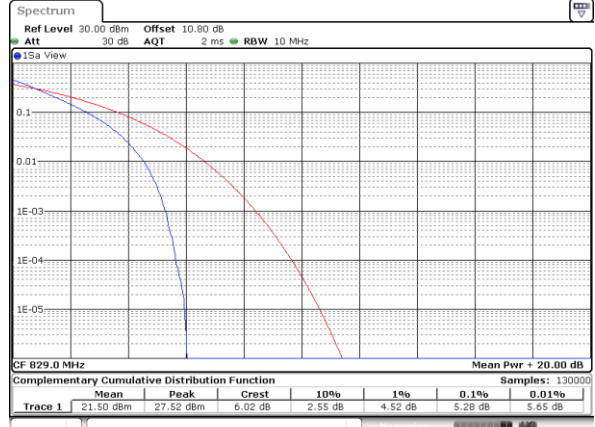
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



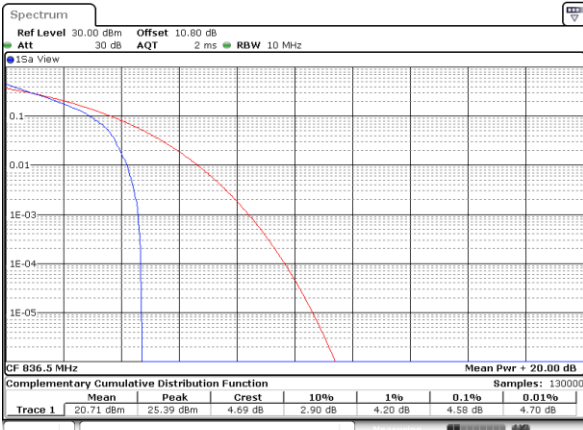
Date: 9 AUG 2017 14:25:52

Lowest Channel / Full RB



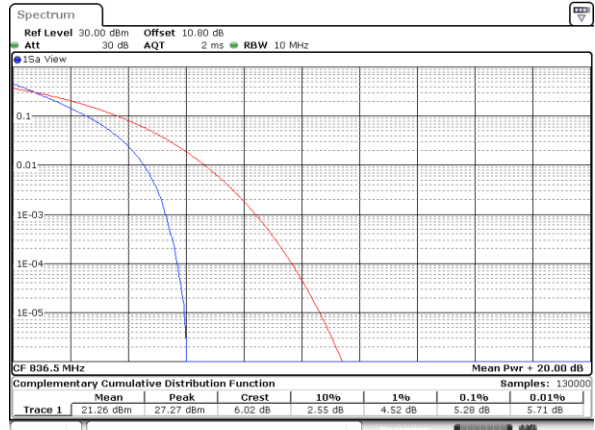
Date: 9 AUG 2017 14:26:02

Middle Channel / 1RB



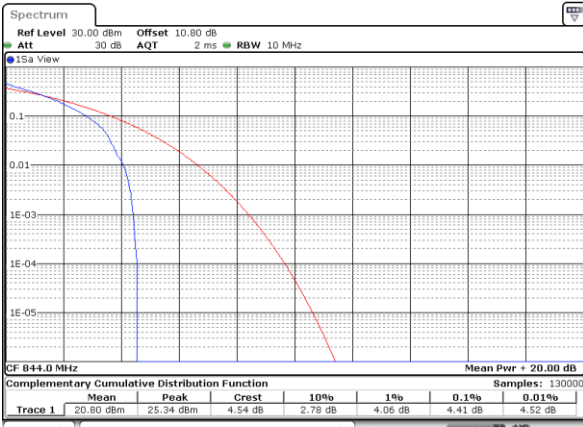
Date: 9 AUG 2017 14:27:46

Middle Channel / Full RB



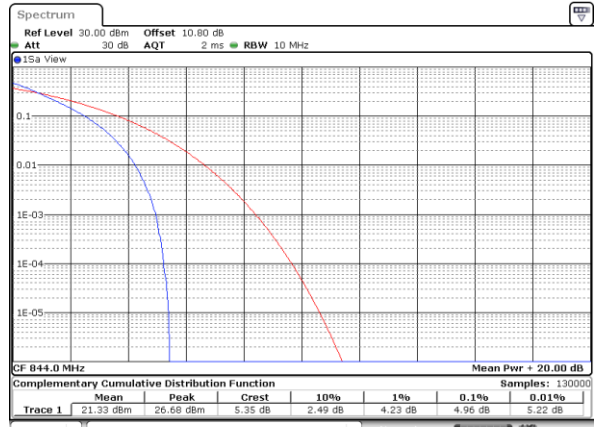
Date: 9 AUG 2017 14:27:55

Highest Channel / 1RB



Date: 9 AUG 2017 14:28:05

Highest Channel / Full RB

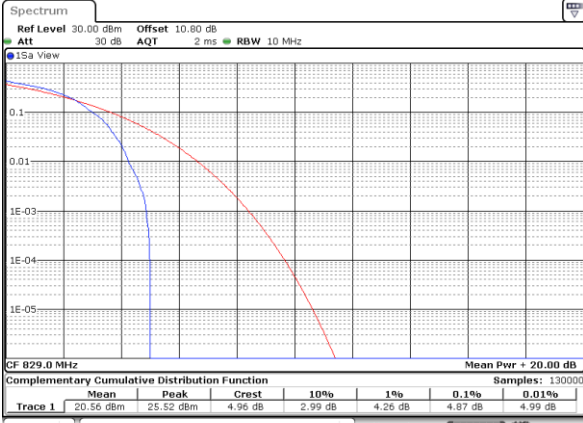


Date: 9 AUG 2017 14:28:17



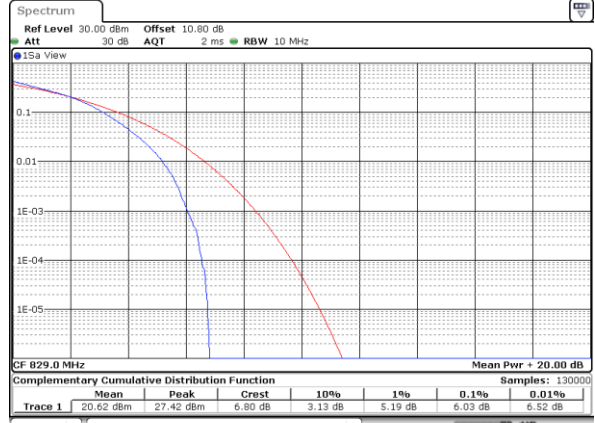
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



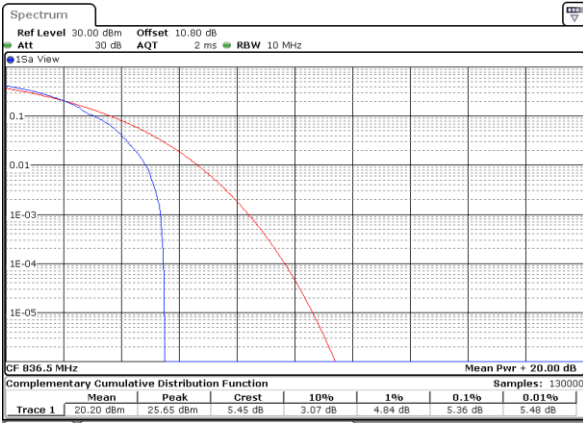
Date: 9 AUG 2017 14:24:40

Lowest Channel / Full RB



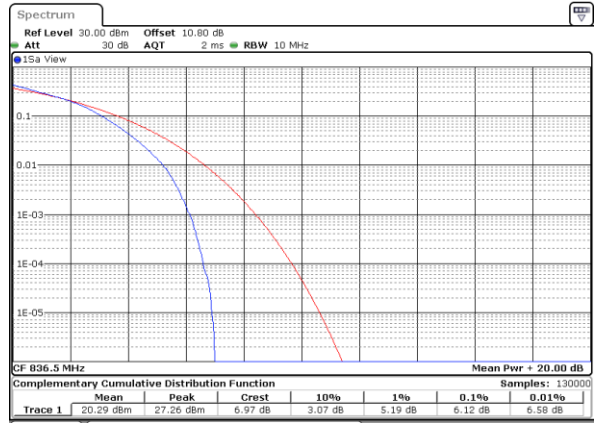
Date: 9 AUG 2017 14:24:49

Middle Channel / 1RB



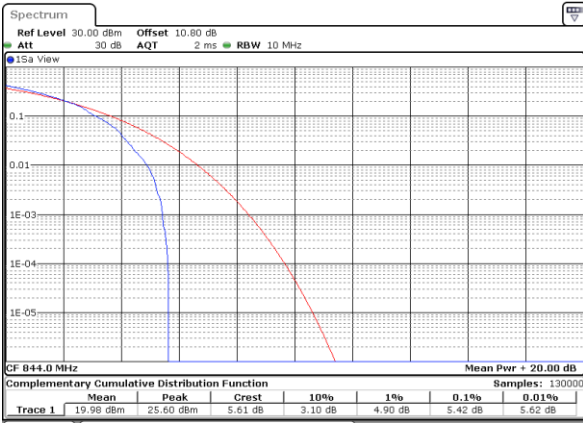
Date: 9 AUG 2017 14:24:58

Middle Channel / Full RB



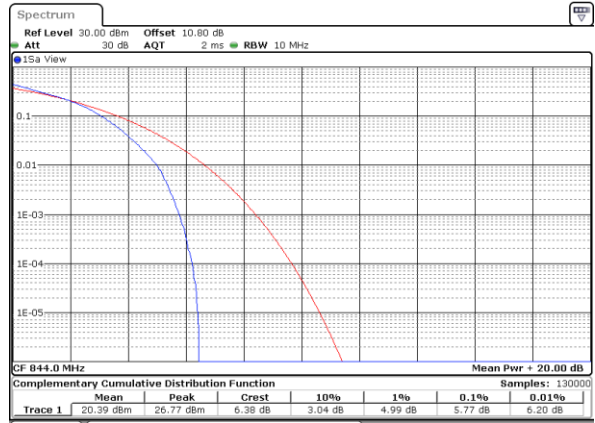
Date: 9 AUG 2017 14:25:07

Highest Channel / 1RB



Date: 9 AUG 2017 14:25:16

Highest Channel / Full RB



Date: 9 AUG 2017 14:25:28



**26dB Bandwidth**

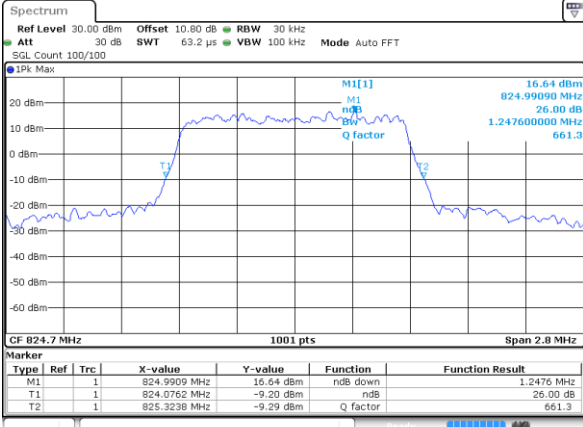
Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.25	1.26	3.01	3.03	5.02	5.08	9.81	9.87	-	-	-	-
Middle CH	1.26	1.23	2.99	3.02	4.94	5.05	9.79	9.89	-	-	-	-
Highest CH	1.29	1.26	3.01	3.01	4.92	5.02	10.13	9.95	-	-	-	-





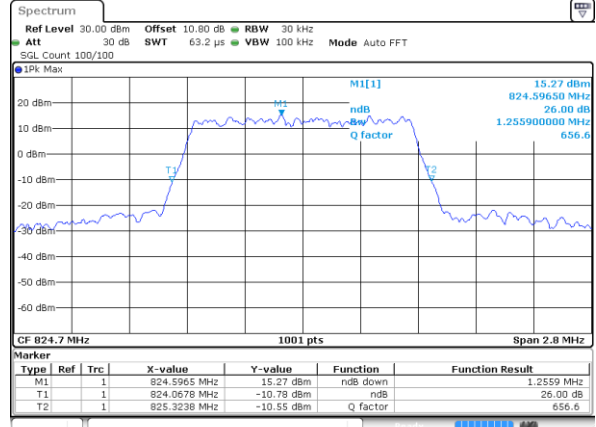
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



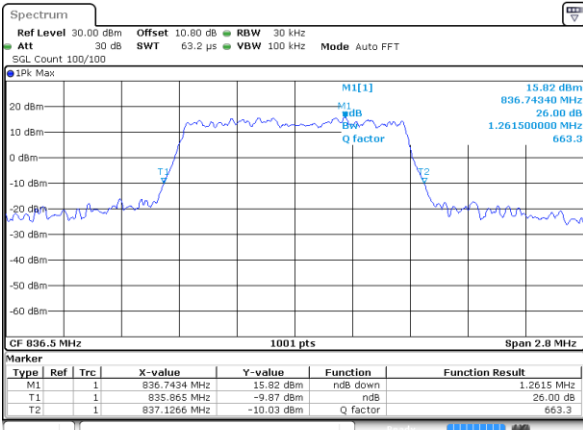
Date: 9 AUG 2017 13:53:33

Lowest Channel / 1.4MHz / 16QAM



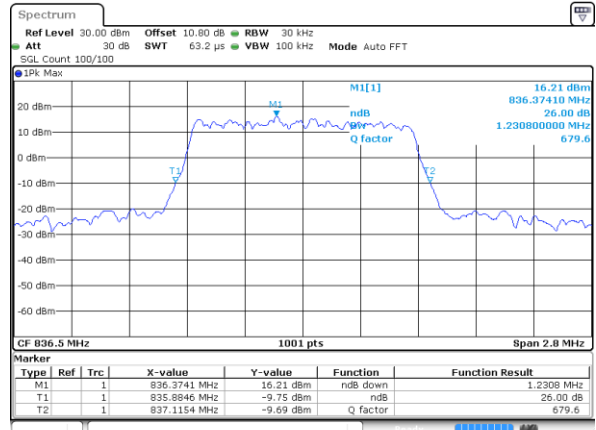
Date: 9 AUG 2017 13:53:23

Middle Channel / 1.4MHz / QPSK



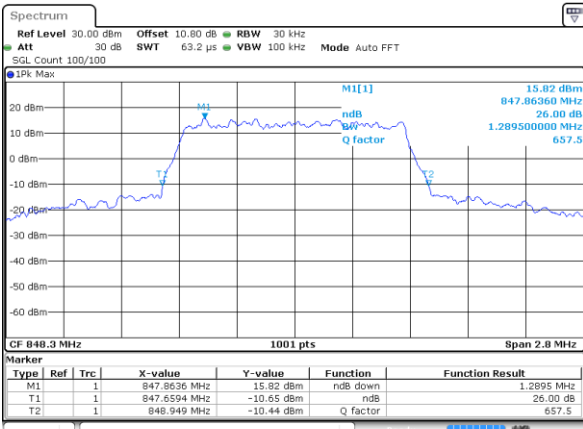
Date: 9 AUG 2017 14:02:26

Middle Channel / 1.4MHz / 16QAM



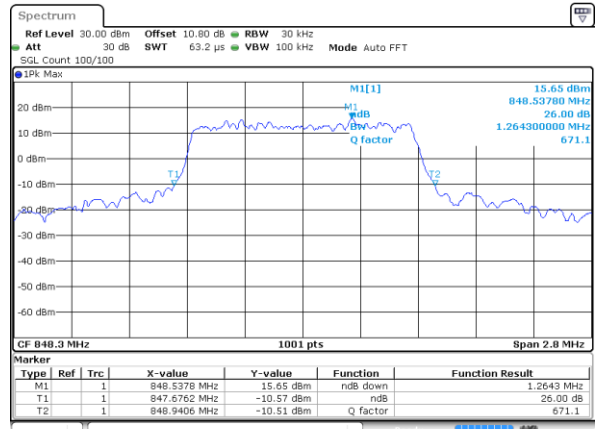
Date: 9 AUG 2017 14:02:36

Highest Channel / 1.4MHz / QPSK



Date: 9 AUG 2017 14:04:53

Highest Channel / 1.4MHz / 16QAM

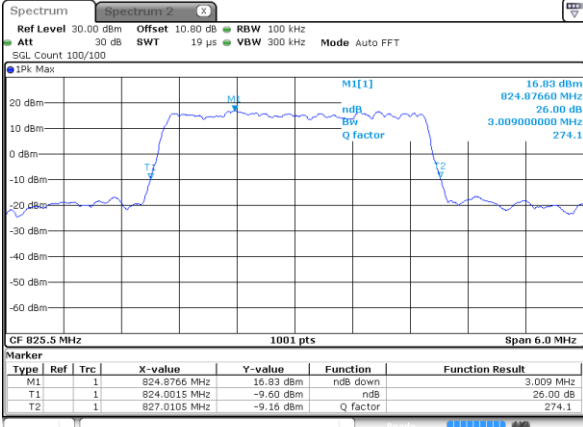


Date: 9 AUG 2017 14:05:03



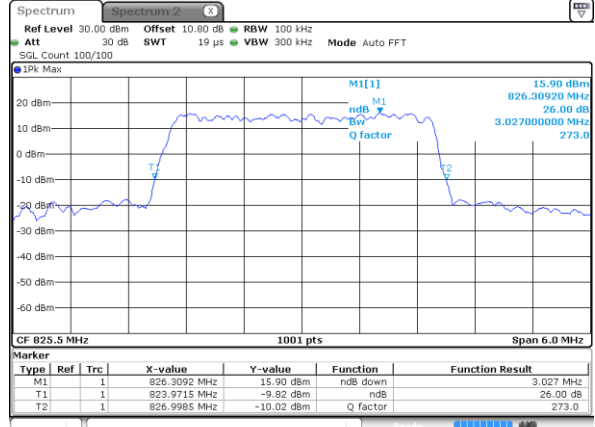
LTE Band 5

Lowest Channel / 3MHz / QPSK



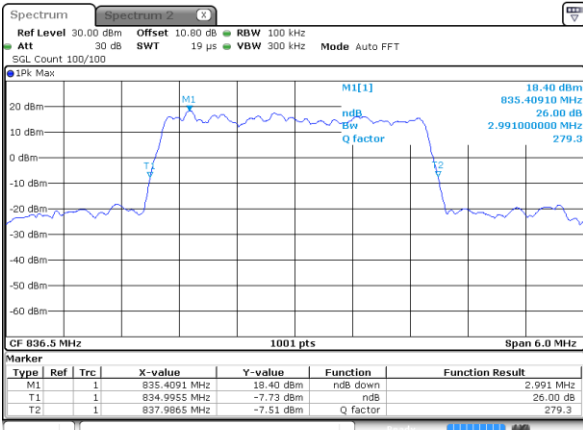
Date: 9 AUG 2017 01:05:43

Lowest Channel / 3MHz / 16QAM



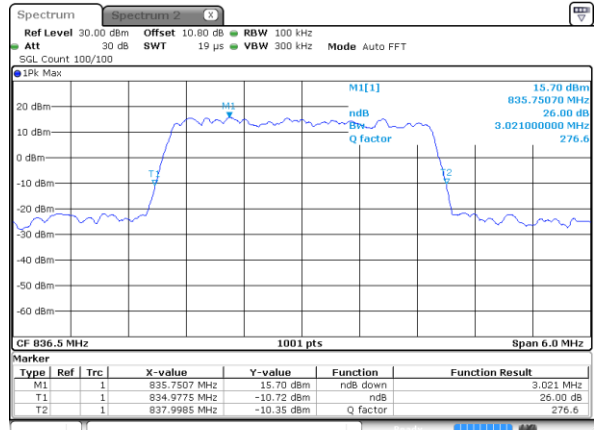
Date: 9 AUG 2017 01:05:53

Middle Channel / 3MHz / QPSK



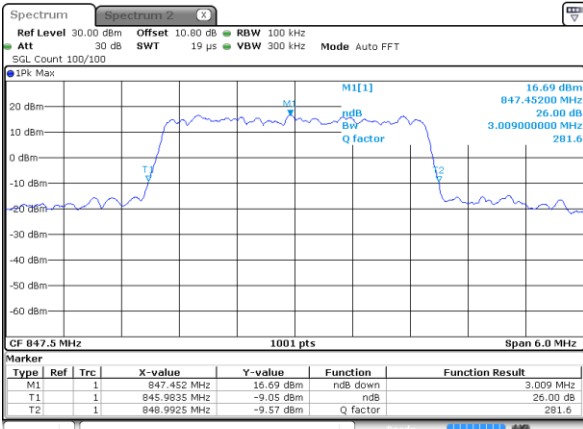
Date: 9 AUG 2017 01:14:45

Middle Channel / 3MHz / 16QAM



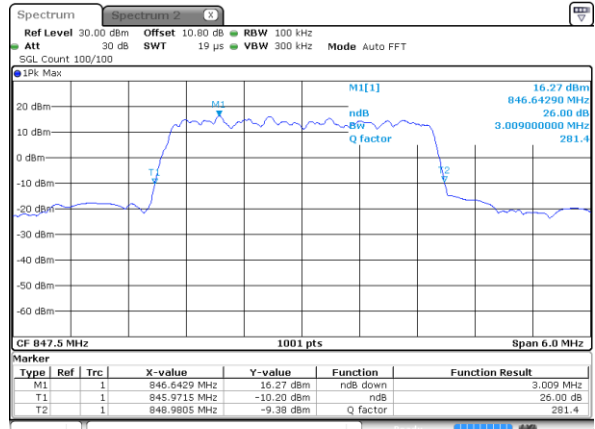
Date: 9 AUG 2017 01:14:55

Highest Channel / 3MHz / QPSK



Date: 9 AUG 2017 01:17:12

Highest Channel / 3MHz / 16QAM

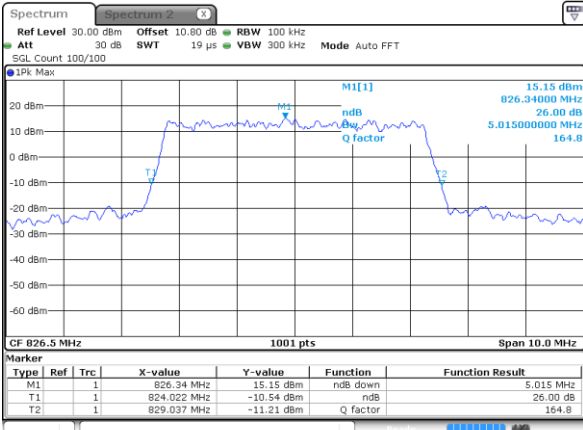


Date: 9 AUG 2017 01:17:22



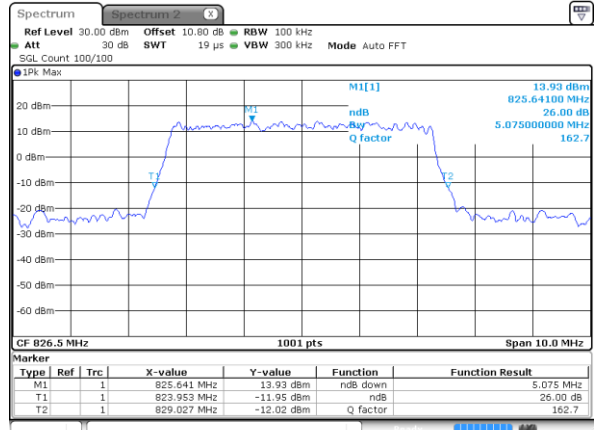
LTE Band 5

Lowest Channel / 5MHz / QPSK



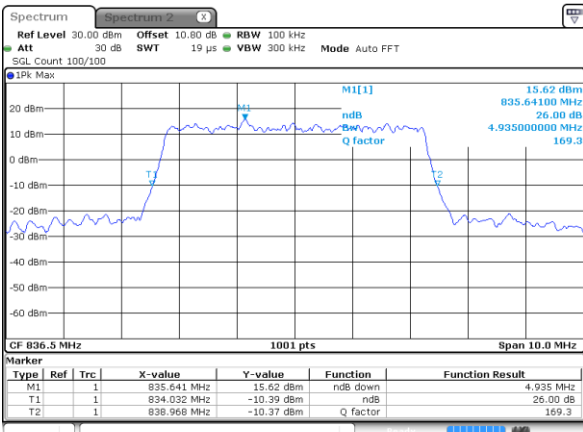
Date: 9 AUG 2017 01:26:15

Lowest Channel / 5MHz / 16QAM



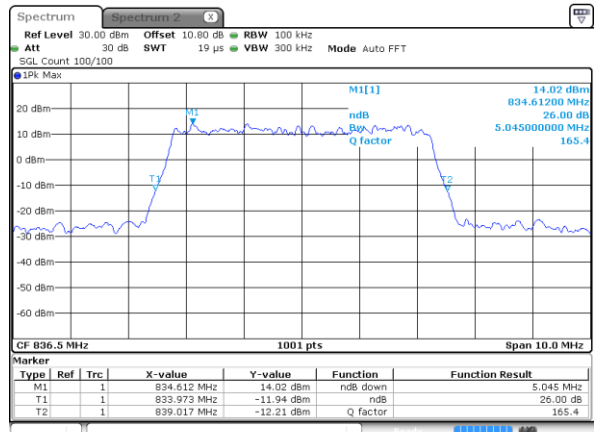
Date: 9 AUG 2017 01:26:25

Middle Channel / 5MHz / QPSK



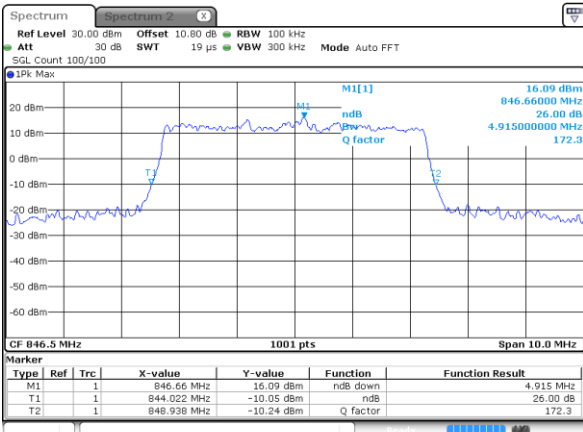
Date: 9 AUG 2017 01:35:17

Middle Channel / 5MHz / 16QAM



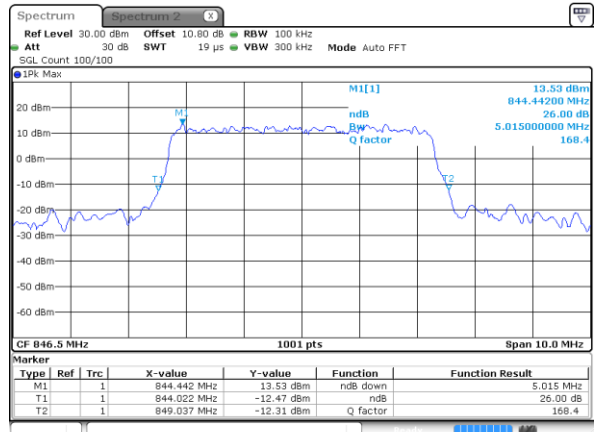
Date: 9 AUG 2017 01:35:27

Highest Channel / 5MHz / QPSK



Date: 9 AUG 2017 01:37:45

Highest Channel / 5MHz / 16QAM

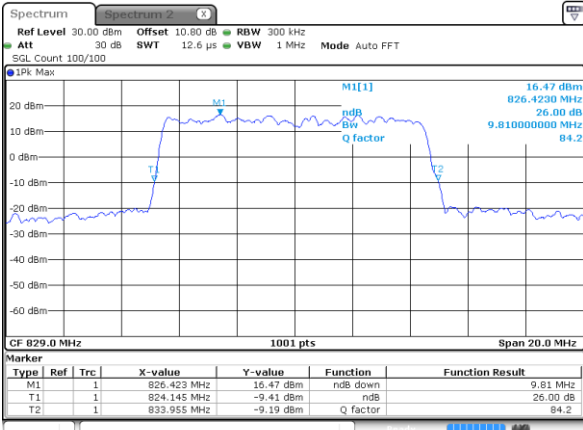


Date: 9 AUG 2017 01:37:55



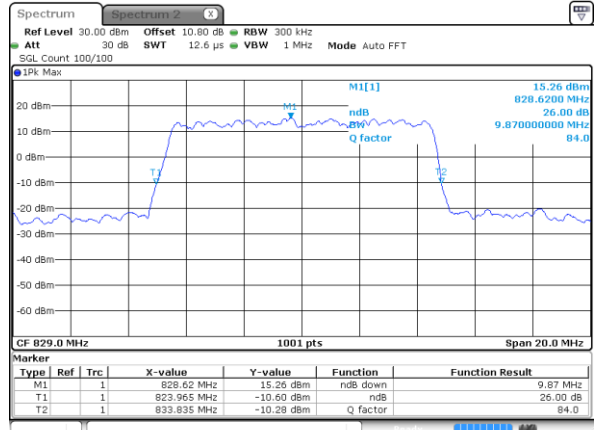
LTE Band 5

Lowest Channel / 10MHz / QPSK



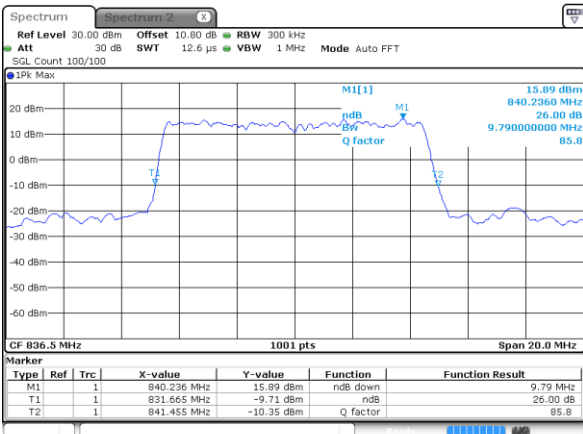
Date: 9 AUG 2017 01:49:25

Lowest Channel / 10MHz / 16QAM



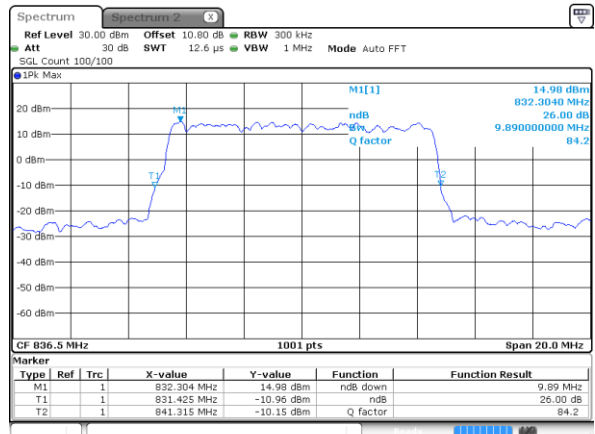
Date: 9 AUG 2017 01:49:35

Middle Channel / 10MHz / QPSK



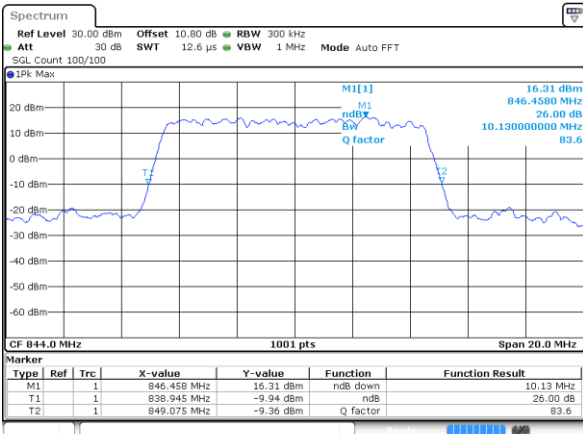
Date: 9 AUG 2017 01:58:27

Middle Channel / 10MHz / 16QAM



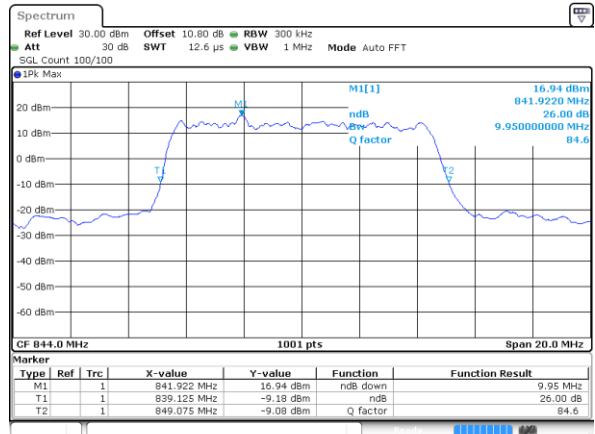
Date: 9 AUG 2017 01:58:38

Highest Channel / 10MHz / QPSK



Date: 9 AUG 2017 14:13:55

Highest Channel / 10MHz / 16QAM



Date: 9 AUG 2017 14:14:05



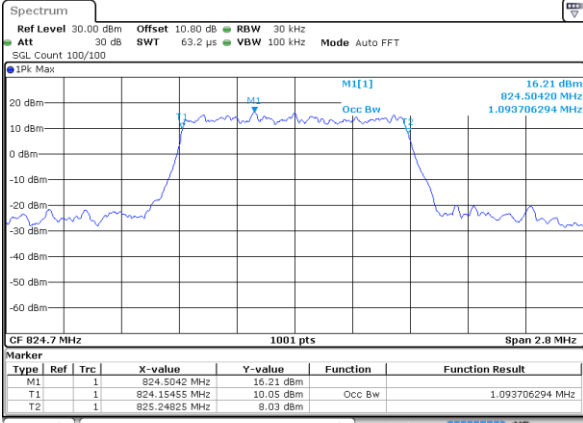
**Occupied Bandwidth**

Mode	LTE Band 5 : 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	1.09	1.1	2.73	2.71	4.51	4.5	9.05	8.99	-	-	-	-
Middle CH	1.1	1.09	2.73	2.73	4.48	4.49	9.07	9.01	-	-	-	-
Highest CH	1.09	1.1	2.73	2.71	4.51	4.54	9.05	9.05	-	-	-	-



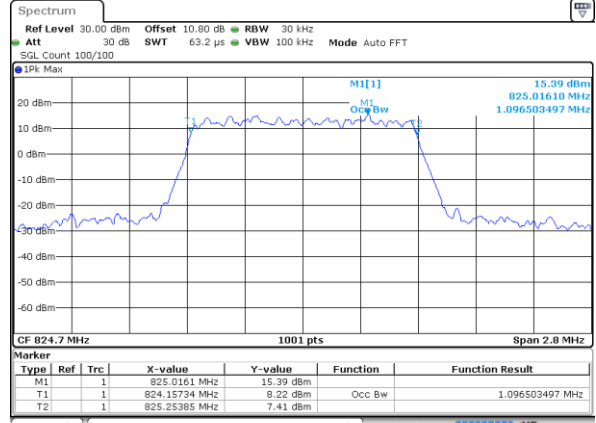
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



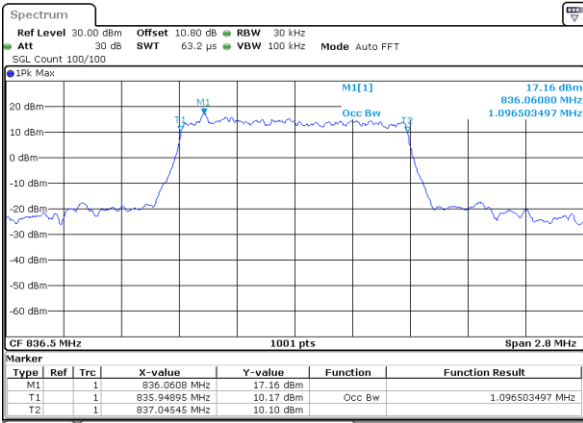
Date: 9 AUG 2017 13:53:02

Lowest Channel / 1.4MHz / 16QAM



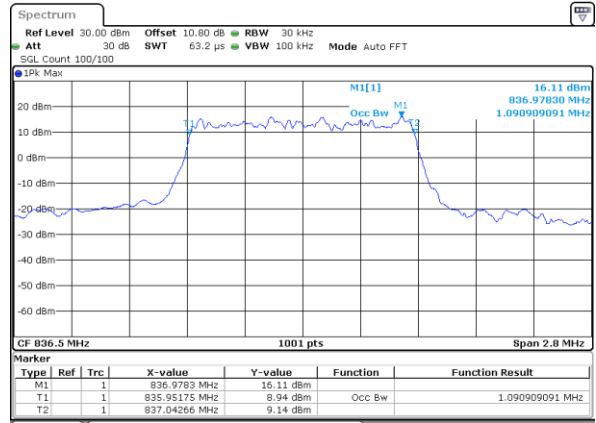
Date: 9 AUG 2017 13:53:13

Middle Channel / 1.4MHz / QPSK



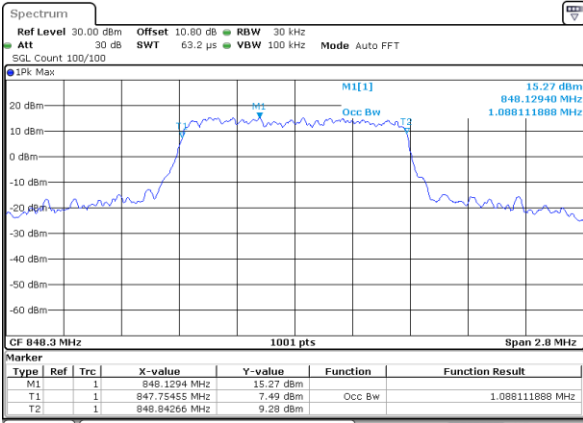
Date: 9 AUG 2017 14:02:06

Middle Channel / 1.4MHz / 16QAM



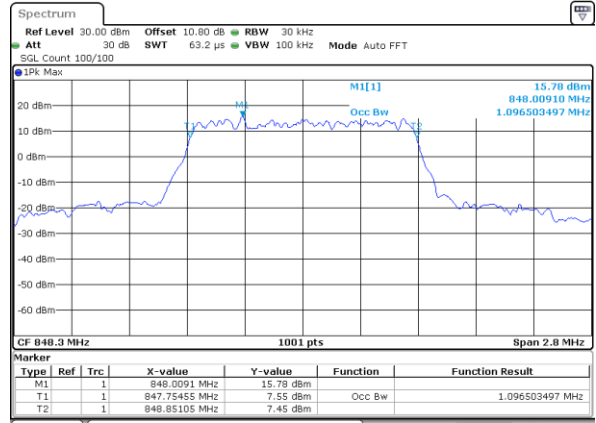
Date: 9 AUG 2017 14:02:16

Highest Channel / 1.4MHz / QPSK



Date: 9 AUG 2017 14:04:33

Highest Channel / 1.4MHz / 16QAM

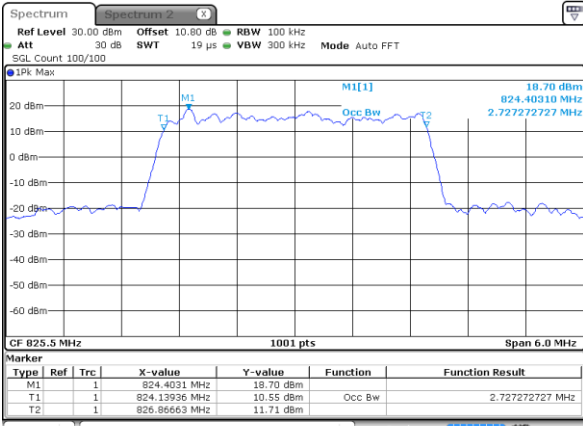


Date: 9 AUG 2017 14:04:43



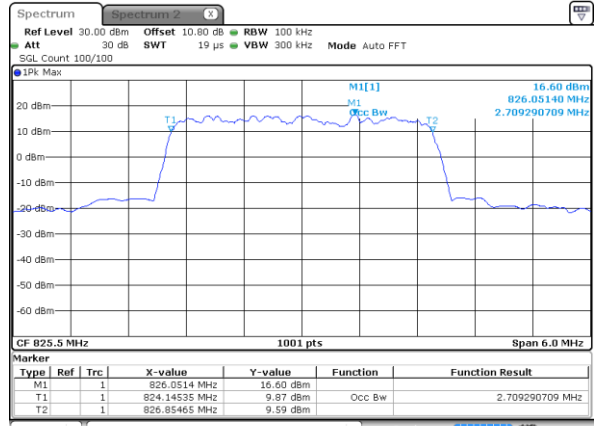
LTE Band 5

Lowest Channel / 3MHz / QPSK



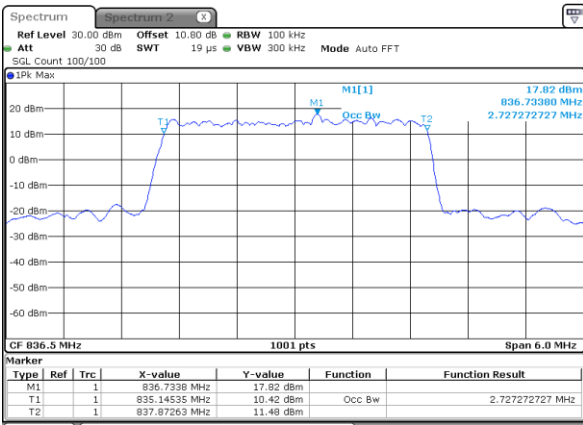
Date: 9 AUG 2017 01:05:23

Lowest Channel / 3MHz / 16QAM



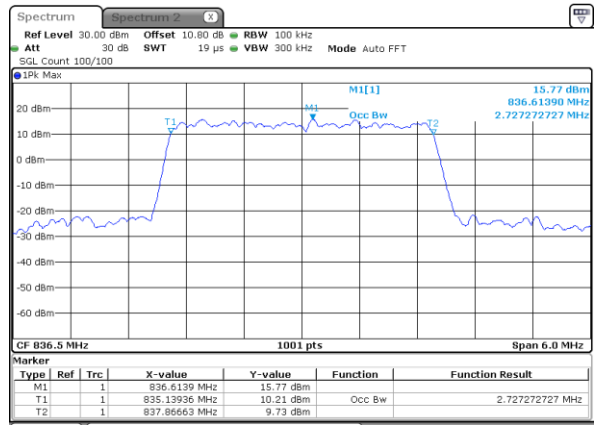
Date: 9 AUG 2017 01:05:33

Middle Channel / 3MHz / QPSK



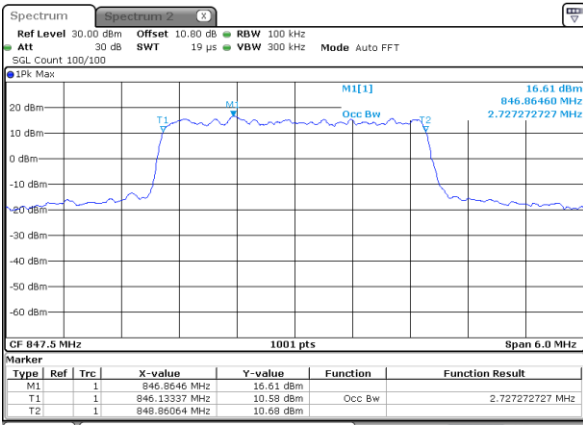
Date: 9 AUG 2017 01:14:25

Middle Channel / 3MHz / 16QAM



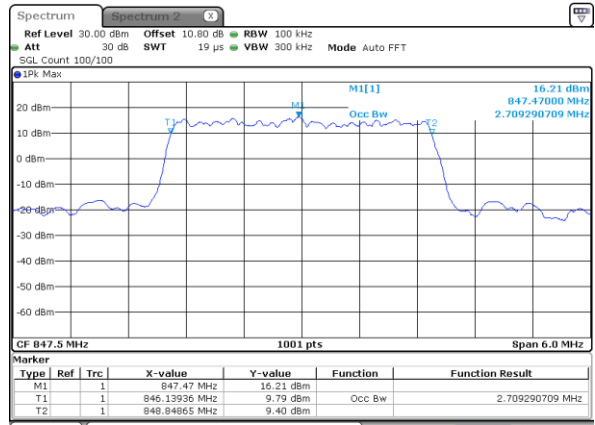
Date: 9 AUG 2017 01:14:35

Highest Channel / 3MHz / QPSK



Date: 9 AUG 2017 01:16:52

Highest Channel / 3MHz / 16QAM

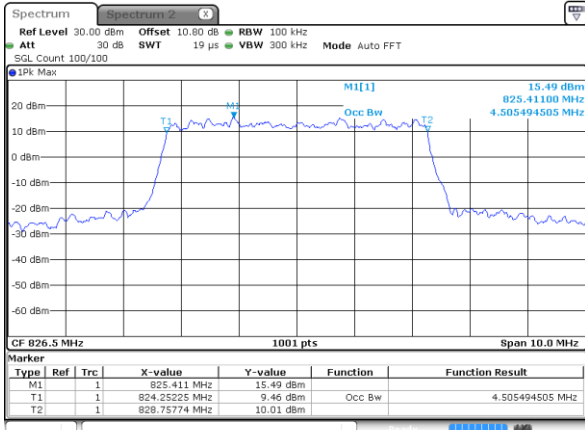


Date: 9 AUG 2017 01:17:02



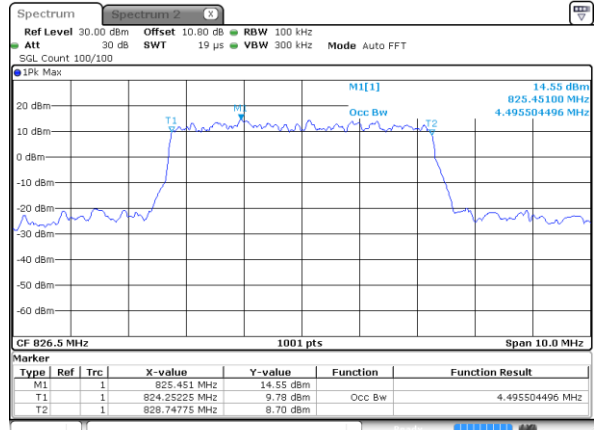
LTE Band 5

Lowest Channel / 5MHz / QPSK



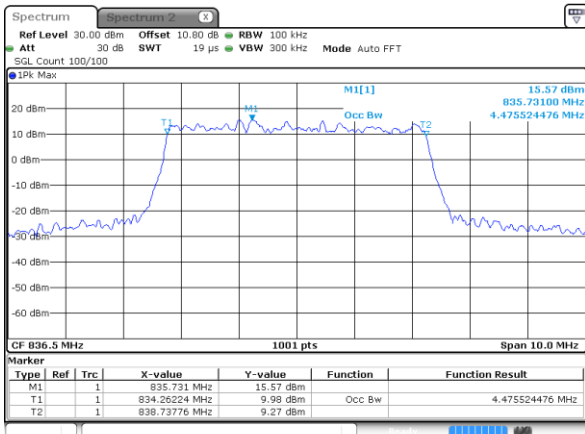
Date: 9 AUG 2017 01:25:55

Lowest Channel / 5MHz / 16QAM



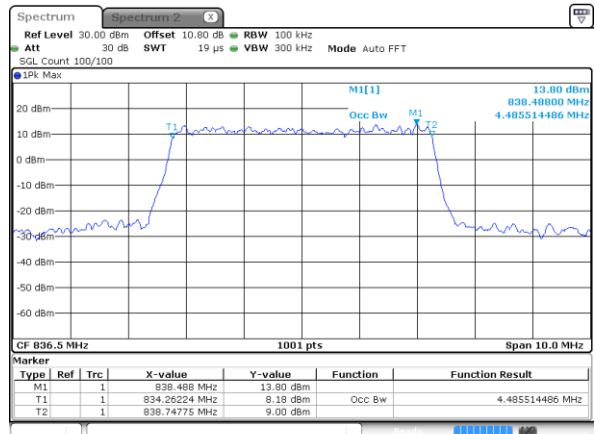
Date: 9 AUG 2017 01:26:05

Middle Channel / 5MHz / QPSK



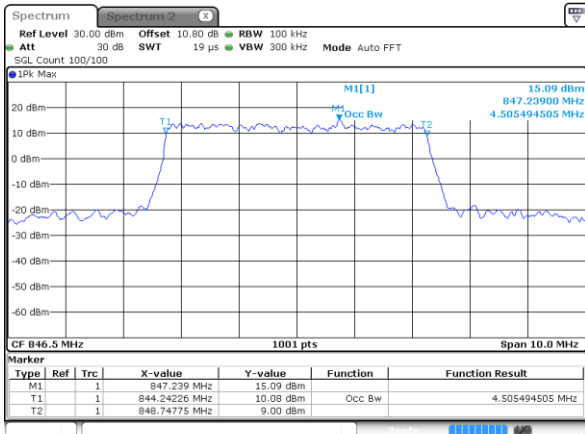
Date: 9 AUG 2017 01:34:57

Middle Channel / 5MHz / 16QAM



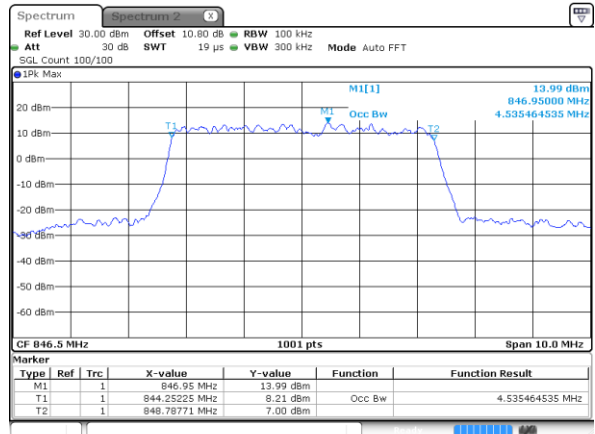
Date: 9 AUG 2017 01:35:07

Highest Channel / 5MHz / QPSK



Date: 9 AUG 2017 01:37:25

Highest Channel / 5MHz / 16QAM



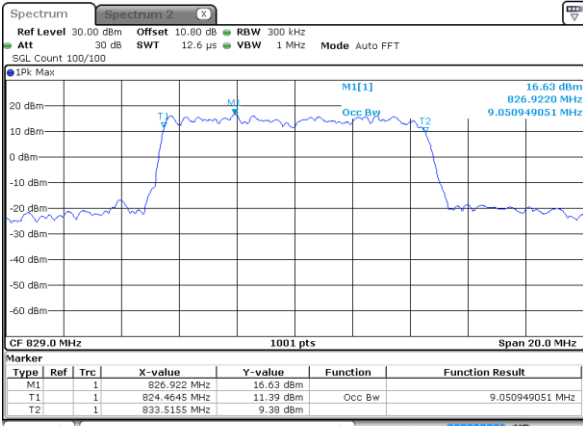
Date: 9 AUG 2017 01:37:35





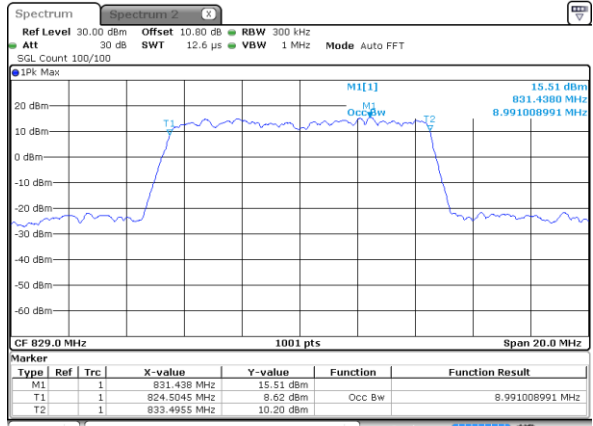
LTE Band 5

Lowest Channel / 10MHz / QPSK



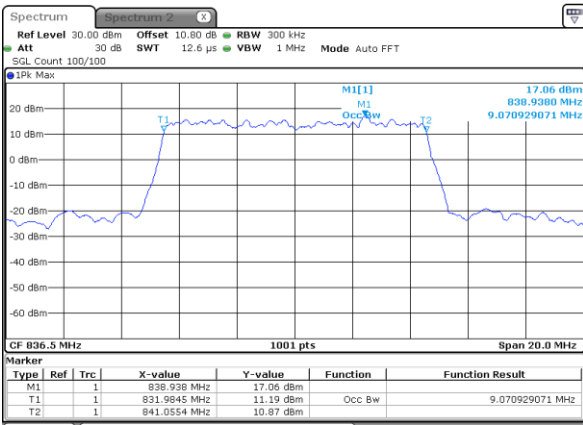
Date: 9 AUG 2017 01:49:05

Lowest Channel / 10MHz / 16QAM



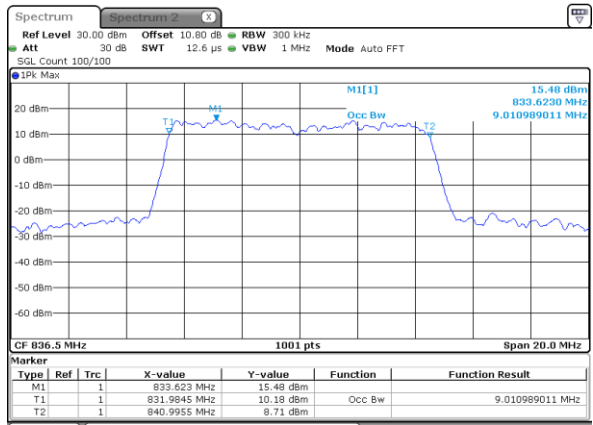
Date: 9 AUG 2017 01:49:15

Middle Channel / 10MHz / QPSK



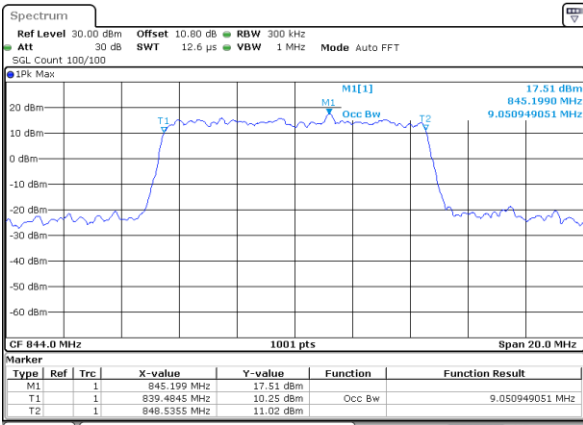
Date: 9 AUG 2017 01:58:07

Middle Channel / 10MHz / 16QAM



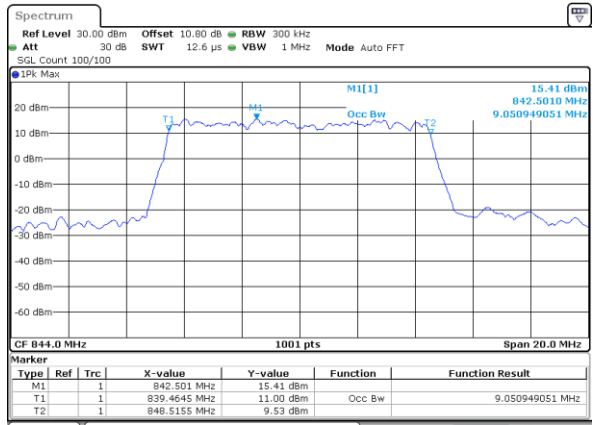
Date: 9 AUG 2017 01:58:17

Highest Channel / 10MHz / QPSK



Date: 9 AUG 2017 14:13:35

Highest Channel / 10MHz / 16QAM



Date: 9 AUG 2017 14:13:45

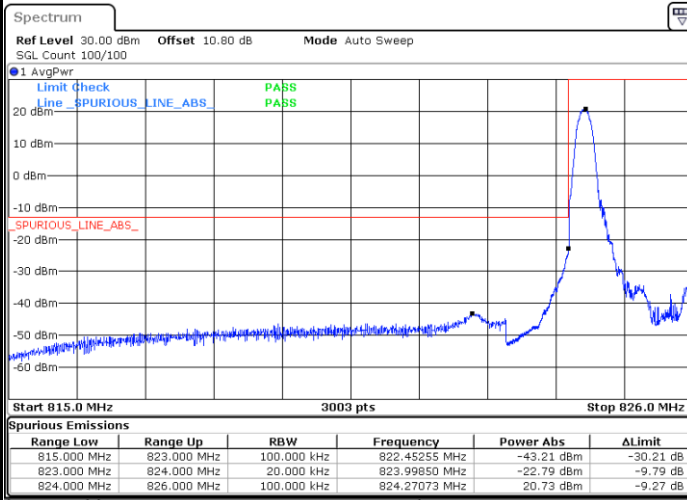


**Conducted Band Edge**



LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



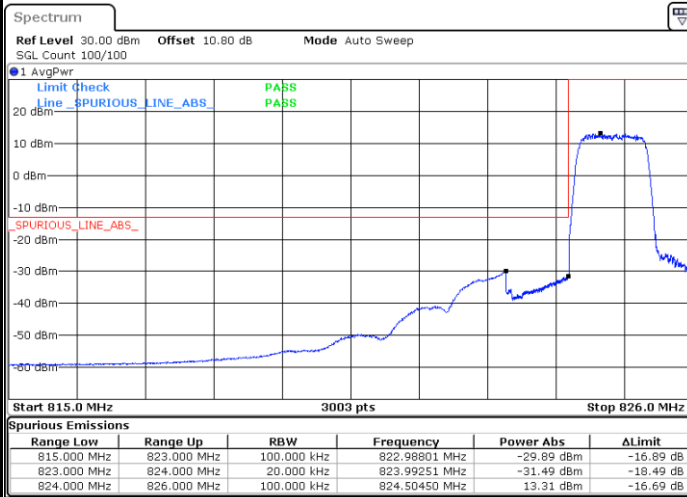
Date: 9 AUG.2017 13:55:11

Highest Band Edge / 1RB



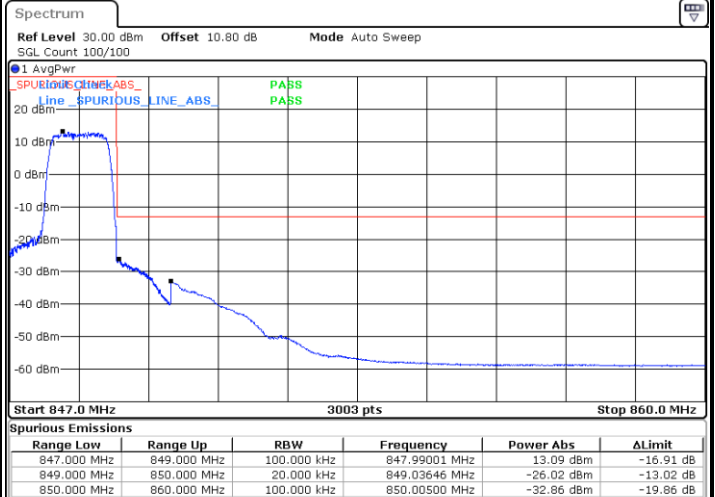
Date: 9 AUG.2017 14:09:59

Lowest Band Edge / Full RB



Date: 9 AUG.2017 13:58:29

Highest Band Edge / Full RB

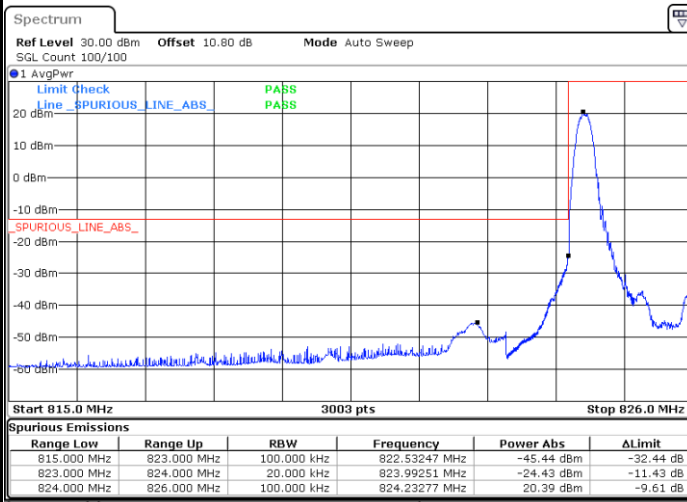


Date: 9 AUG.2017 14:06:41



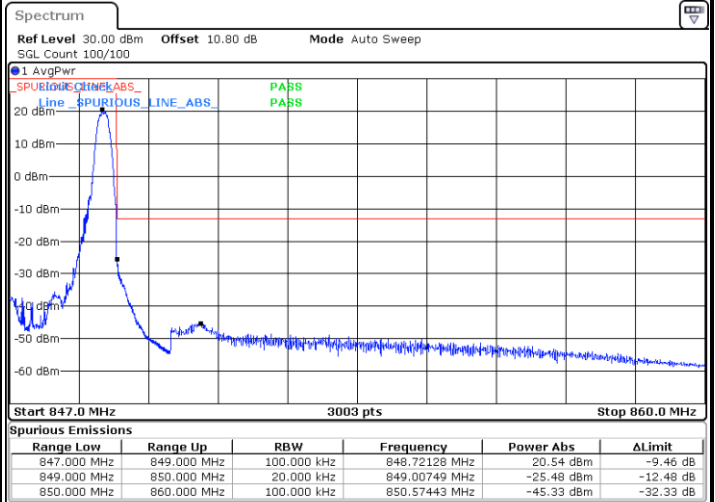
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



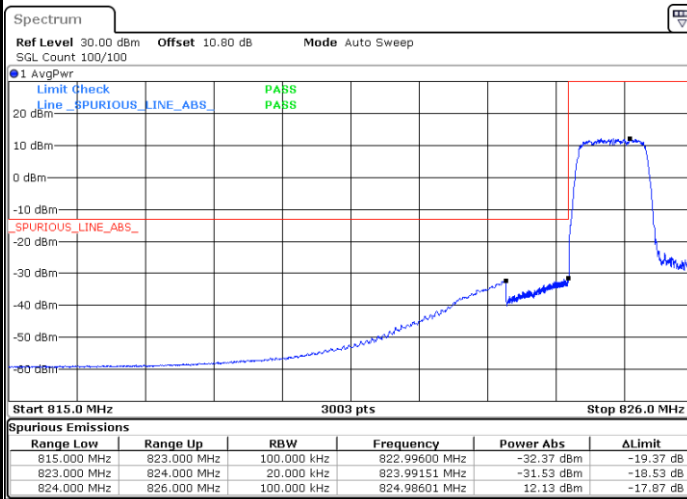
Date: 9 AUG 2017 13:56:50

Highest Band Edge / 1 RB



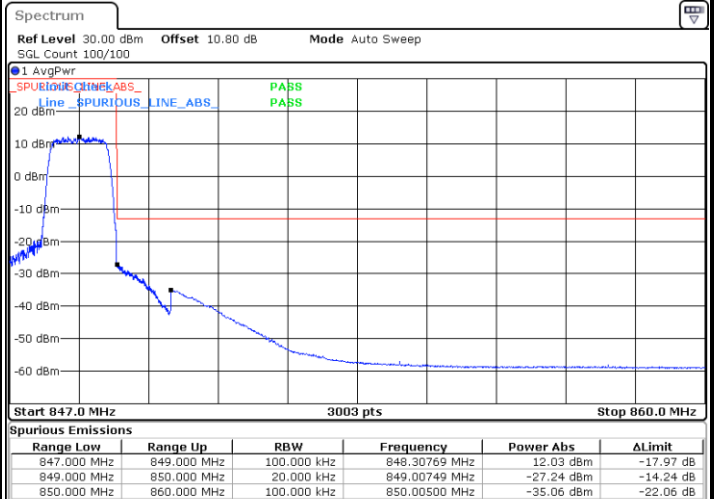
Date: 9 AUG 2017 14:11:37

Lowest Band Edge / Full RB



Date: 9 AUG 2017 14:00:08

Highest Band Edge / Full RB

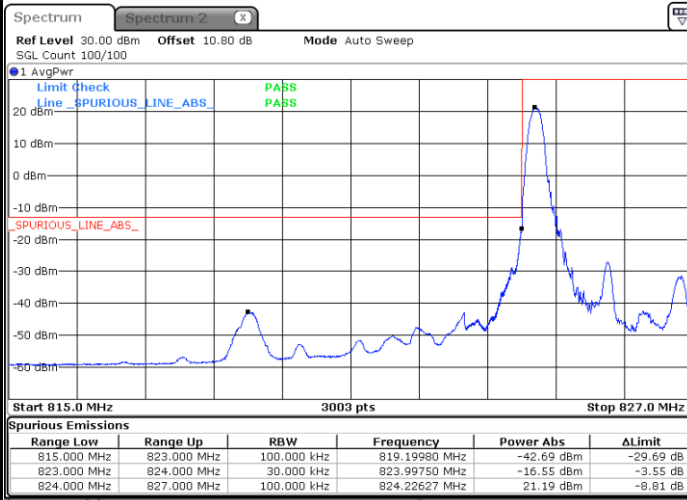


Date: 9 AUG 2017 14:08:20



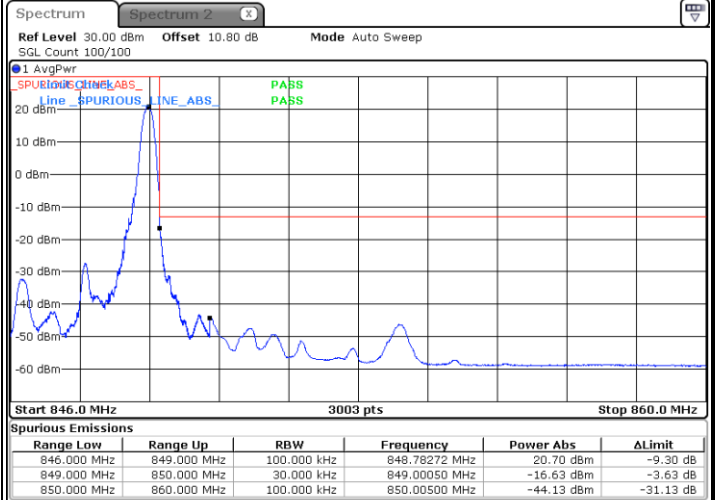
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



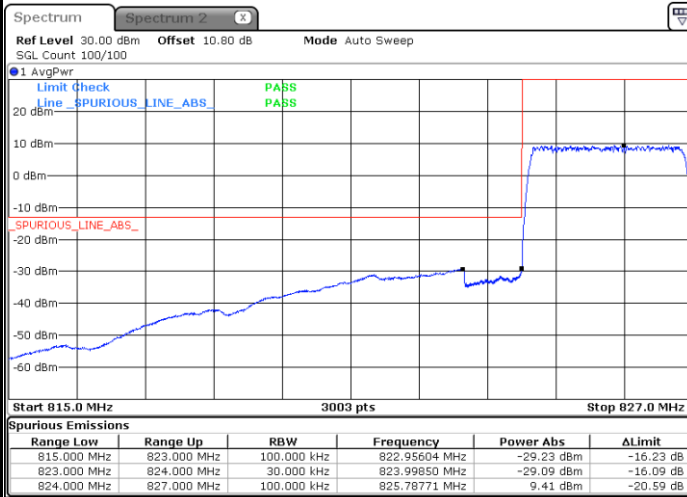
Date: 9 AUG.2017 01:07:31

Highest Band Edge / 1 RB



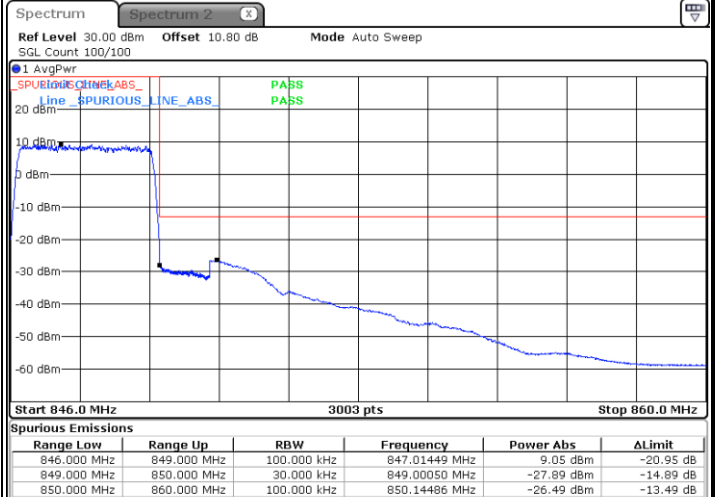
Date: 9 AUG.2017 01:19:01

Lowest Band Edge / Full RB



Date: 9 AUG.2017 01:10:48

Highest Band Edge / Full RB

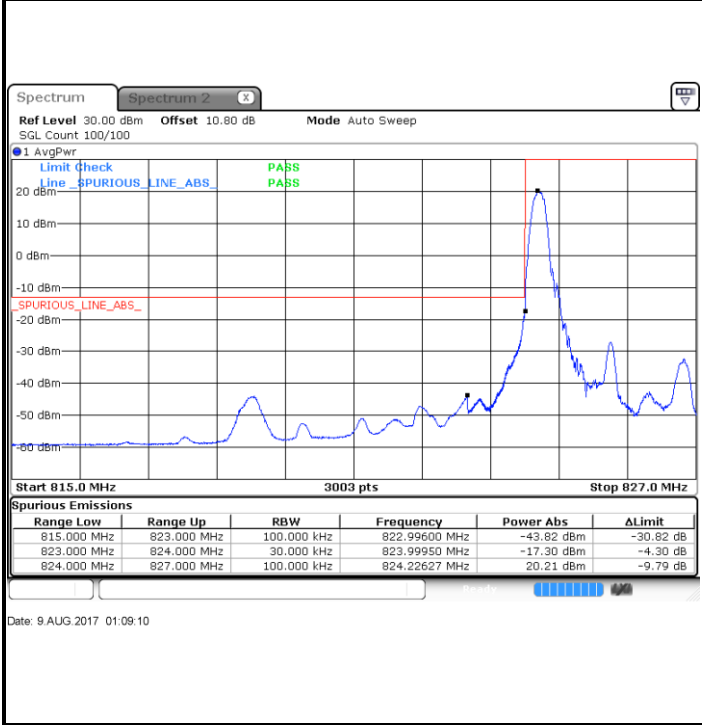


Date: 9 AUG.2017 01:22:18

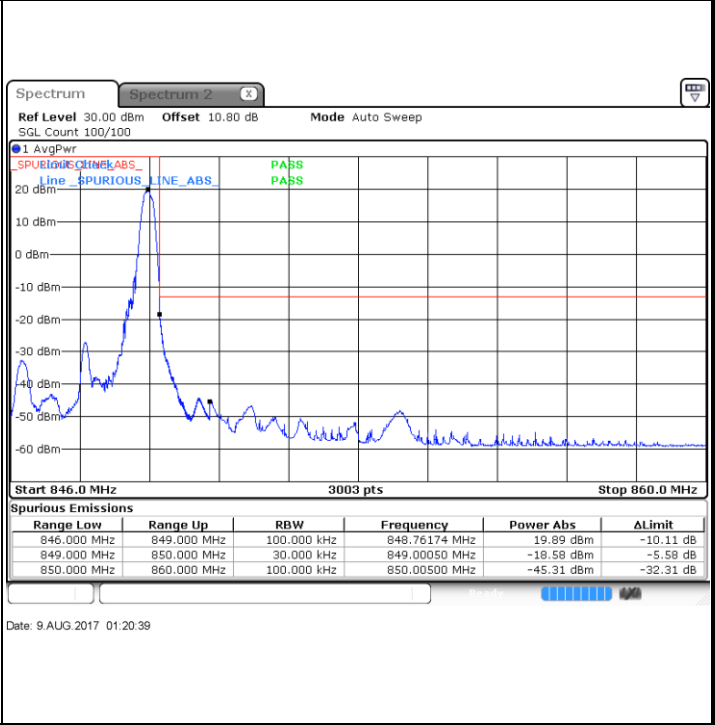


**LTE Band 5 / 3MHz / 16QAM**

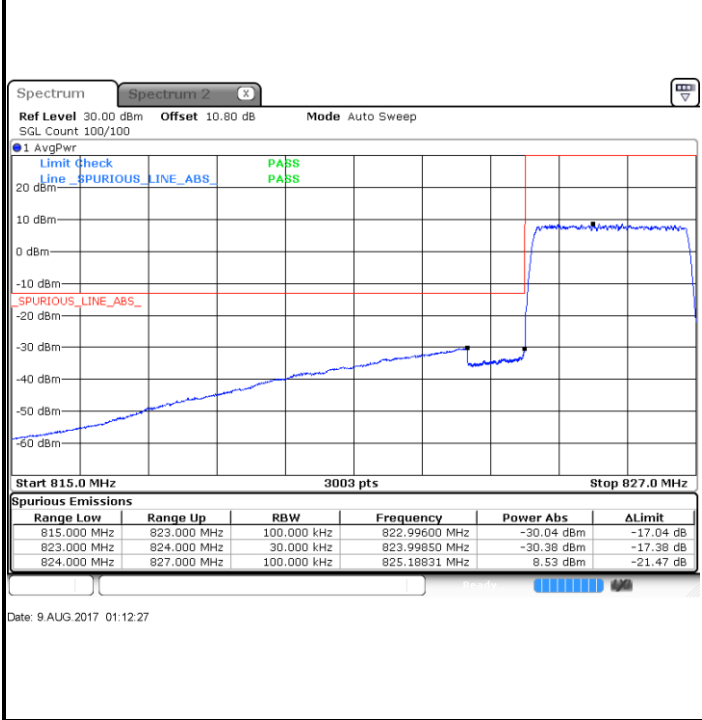
**Lowest Band Edge / 1 RB**



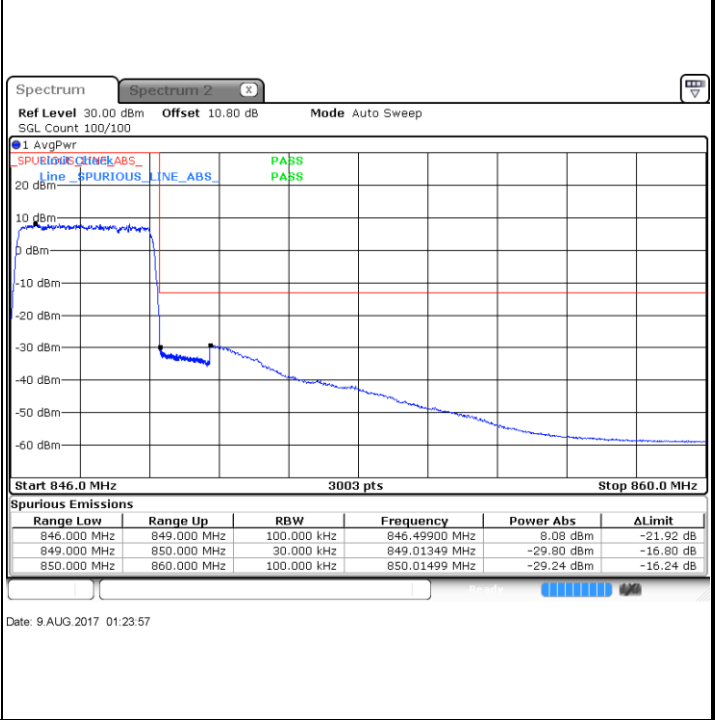
**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



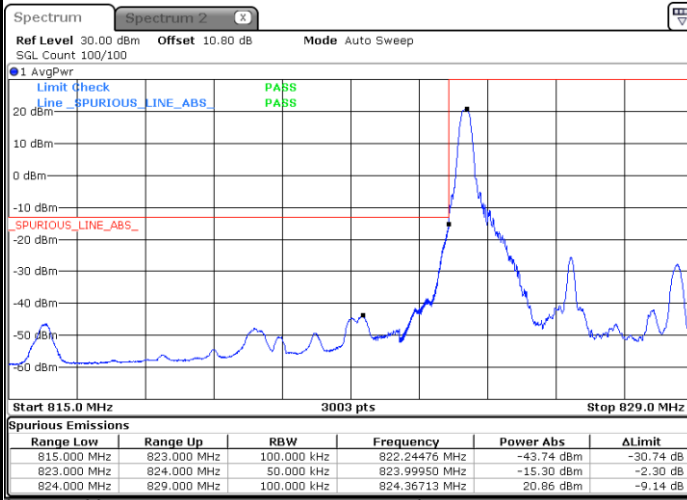
**Highest Band Edge / Full RB**





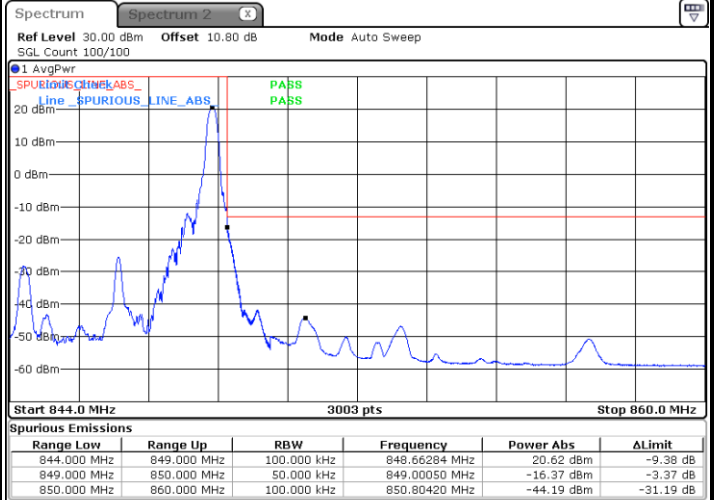
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



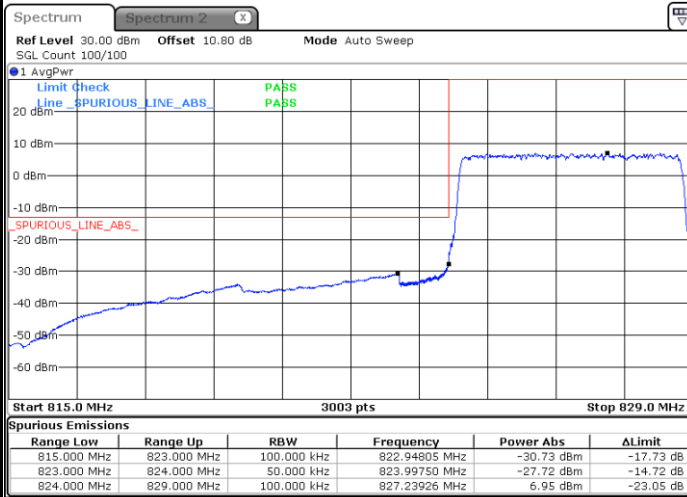
Date: 9 AUG.2017 01:28:03

Highest Band Edge / 1 RB



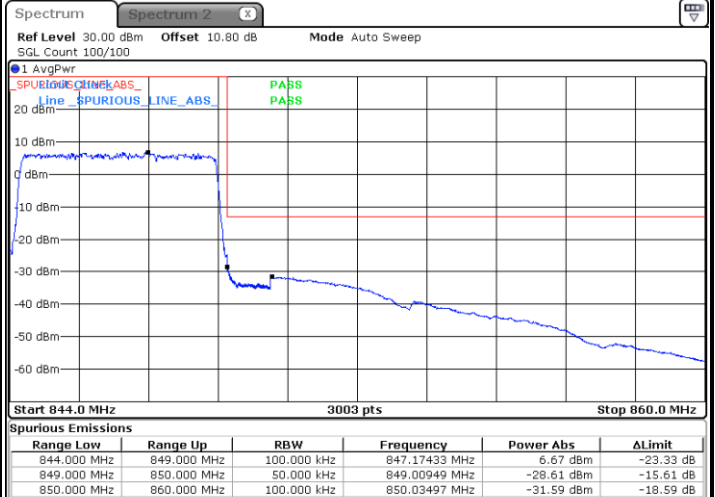
Date: 9 AUG.2017 01:39:33

Lowest Band Edge / Full RB



Date: 9 AUG.2017 01:31:21

Highest Band Edge / Full RB

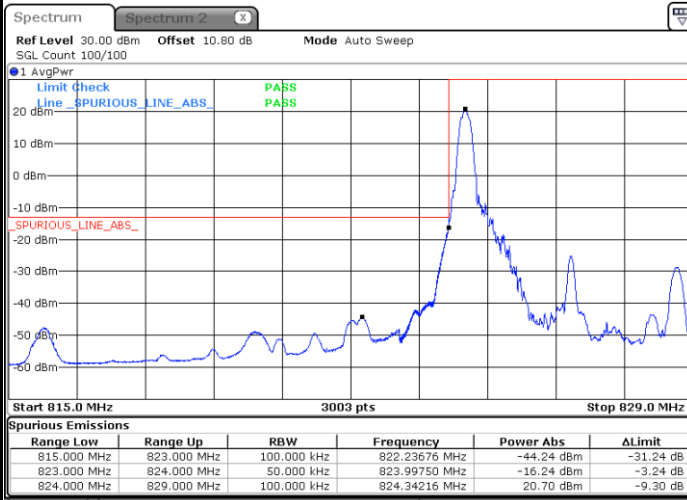


Date: 9 AUG.2017 01:45:28



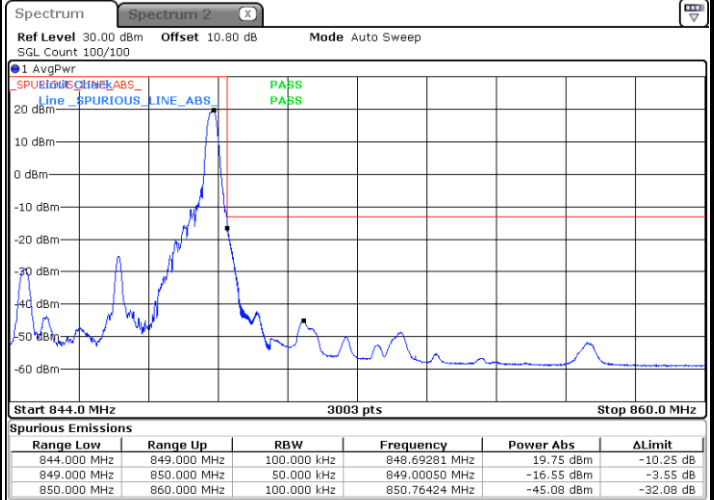
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



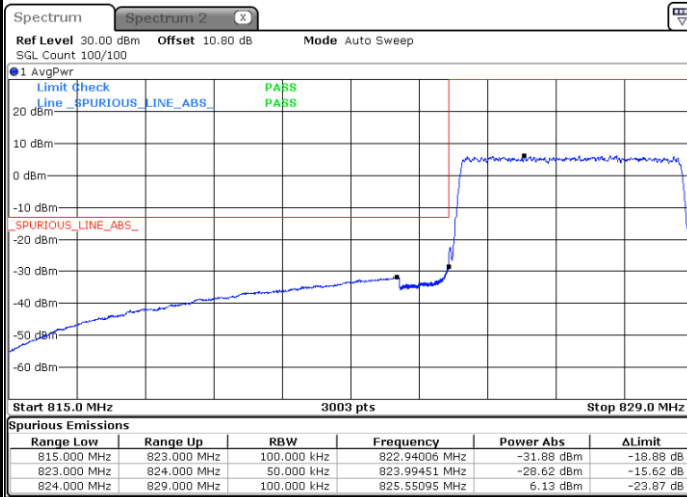
Date: 9 AUG 2017 01:29:42

Highest Band Edge / 1 RB



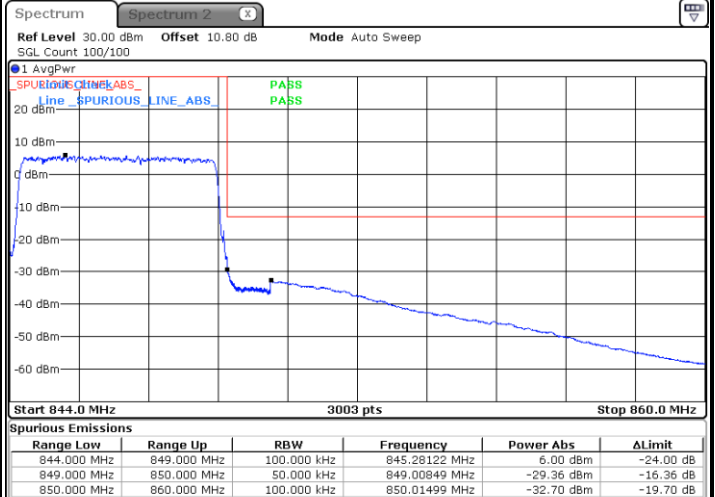
Date: 9 AUG 2017 02:09:09

Lowest Band Edge / Full RB



Date: 9 AUG 2017 01:32:59

Highest Band Edge / Full RB



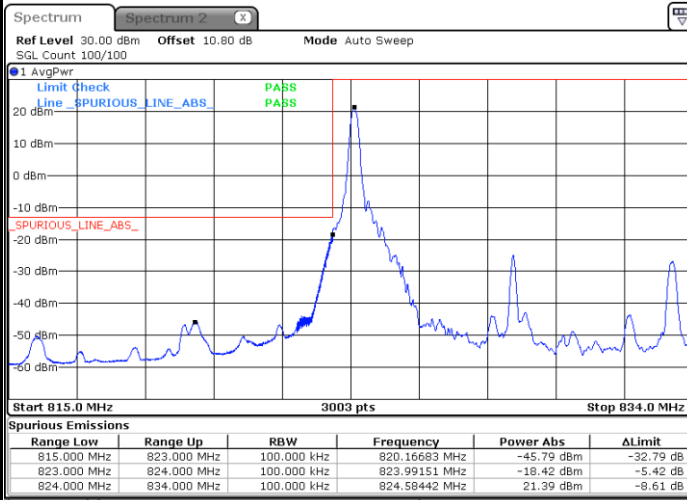
Date: 9 AUG 2017 01:47:07





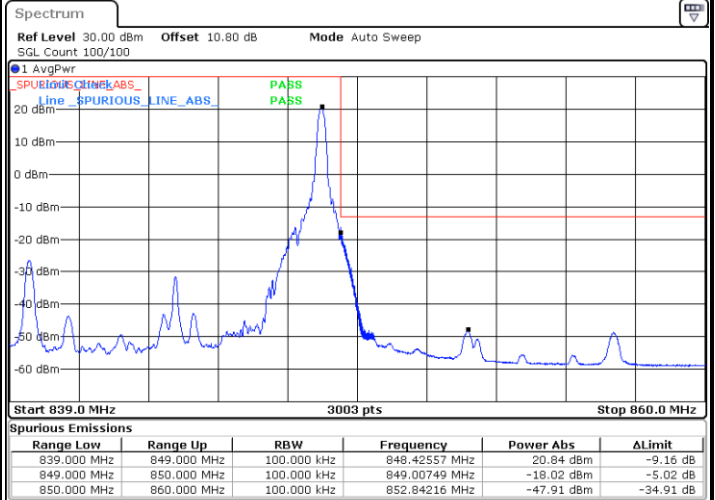
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



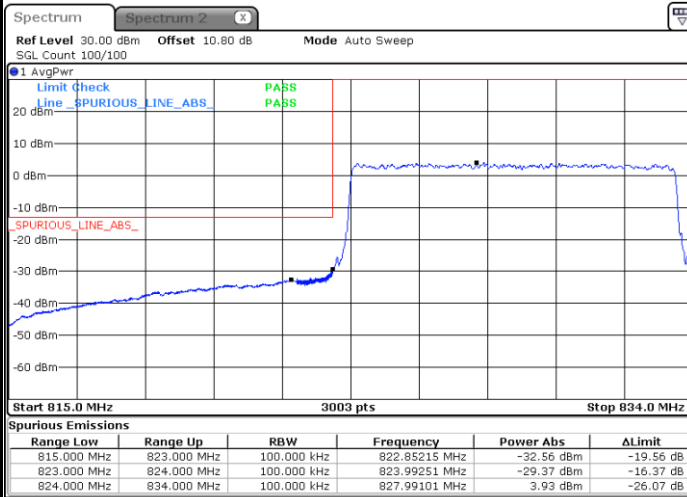
Date: 9 AUG 2017 01:51:13

Highest Band Edge / 1 RB



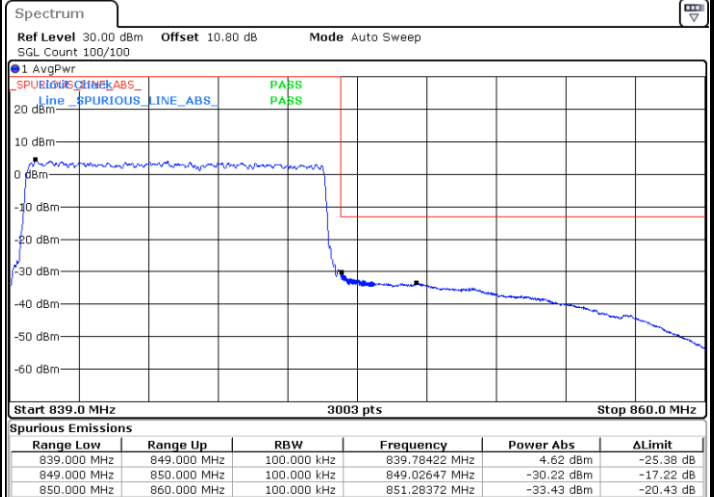
Date: 9 AUG 2017 14:15:44

Lowest Band Edge / Full RB



Date: 9 AUG 2017 01:54:31

Highest Band Edge / Full RB

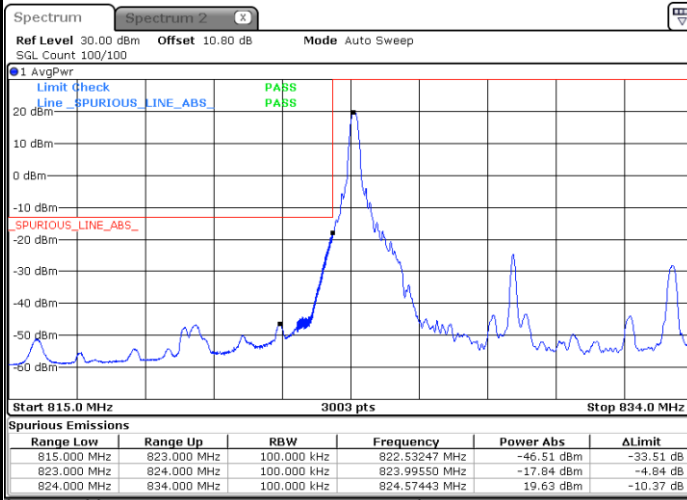


Date: 9 AUG 2017 14:19:01



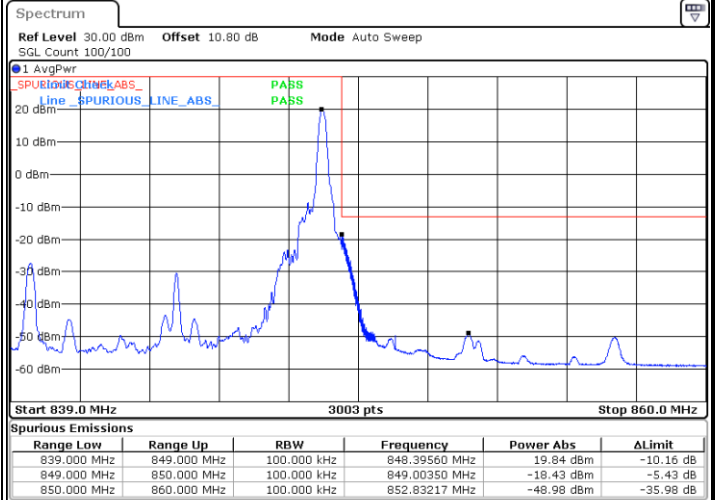
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



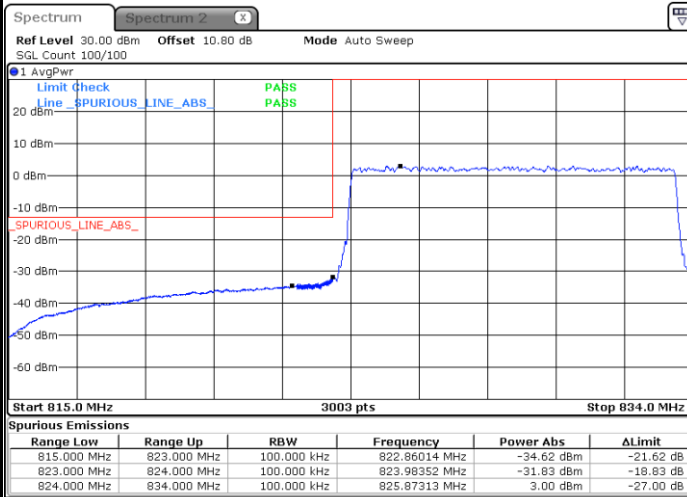
Date: 9 AUG 2017 01:52:52

Highest Band Edge / 1 RB



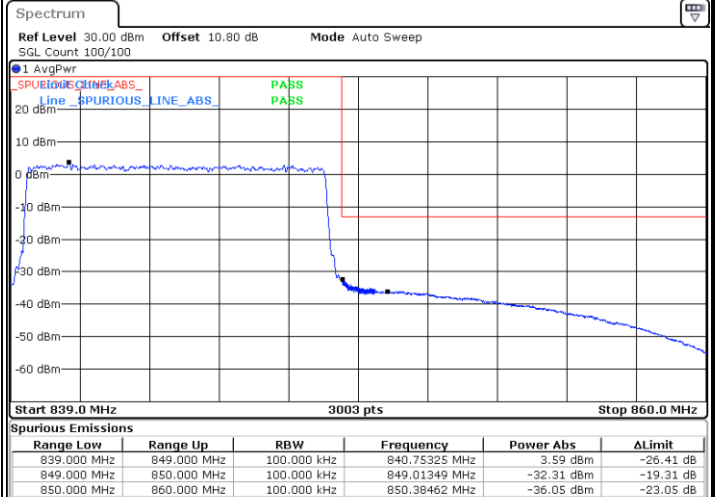
Date: 9 AUG 2017 14:17:22

Lowest Band Edge / Full RB



Date: 9 AUG 2017 01:56:09

Highest Band Edge / Full RB



Date: 9 AUG 2017 14:20:40



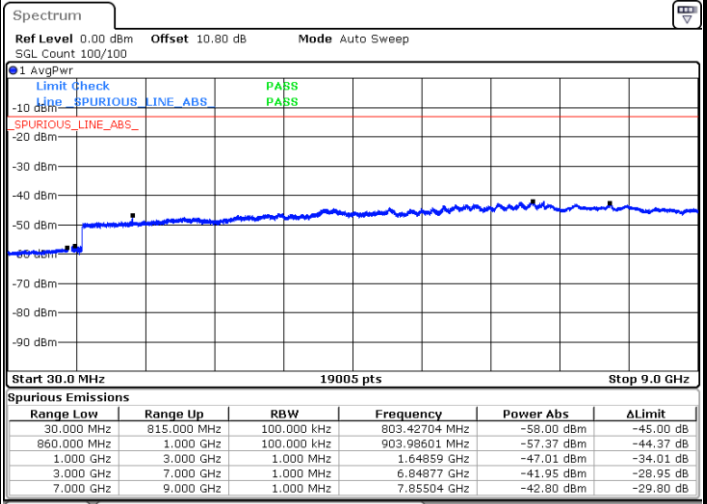
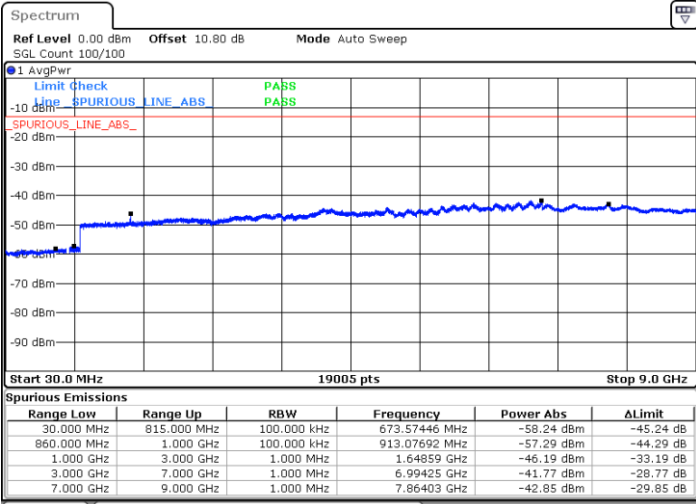
**Conducted Spurious Emission**



LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

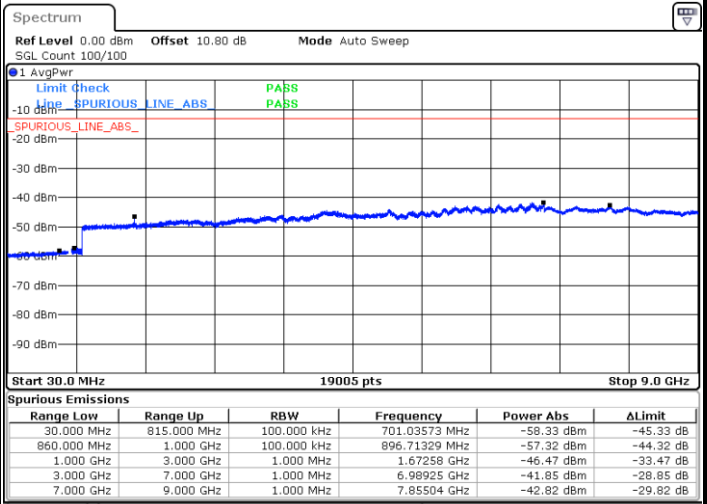
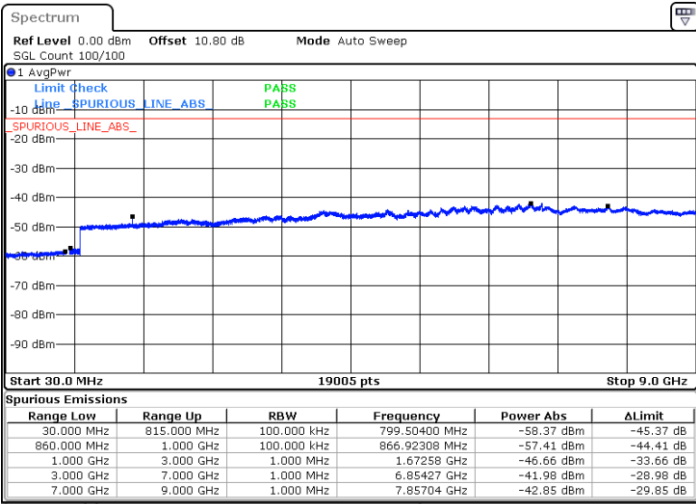


Date: 9 AUG.2017 14:01:02

Date: 9 AUG.2017 14:01:56

Middle Channel / QPSK

Middle Channel / 16QAM



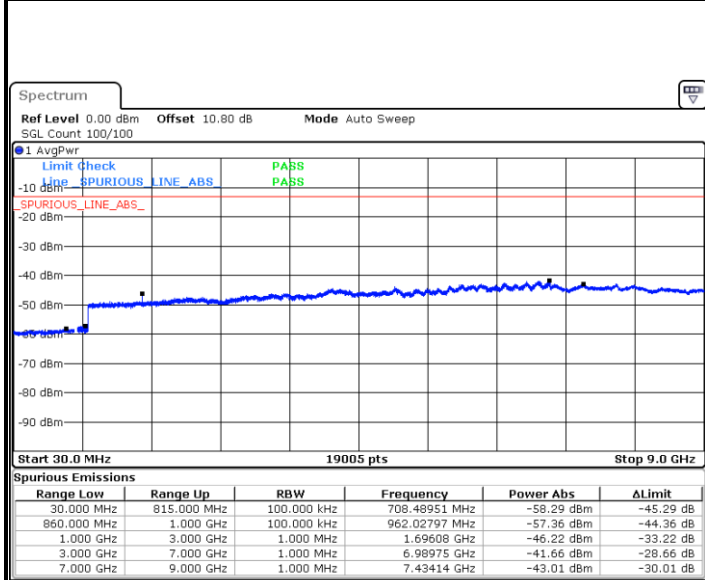
Date: 9 AUG.2017 14:03:30

Date: 9 AUG.2017 14:04:23



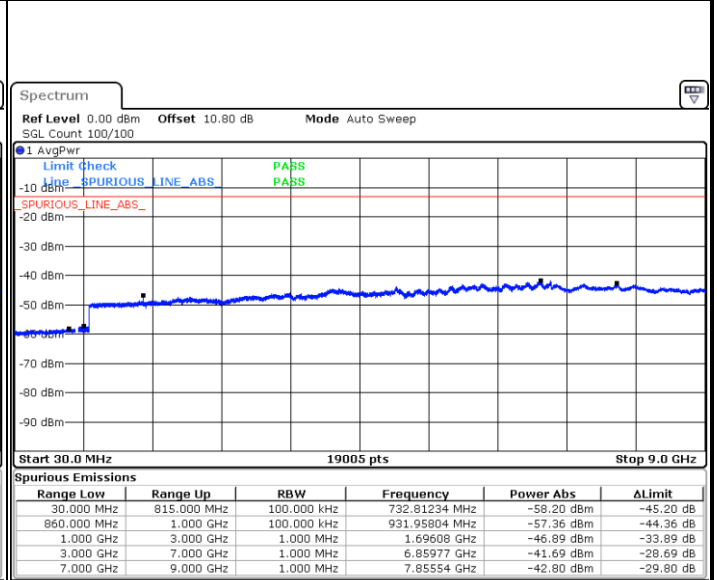
**LTE Band 5 / 1.4MHz**

**Highest Channel / QPSK**



Date: 9 AUG.2017 14:12:32

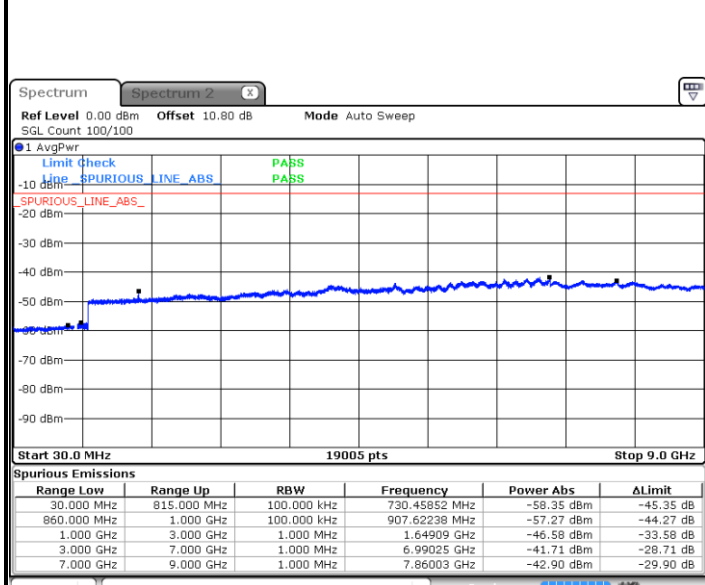
**Highest Channel / 16QAM**



Date: 9 AUG.2017 14:13:25

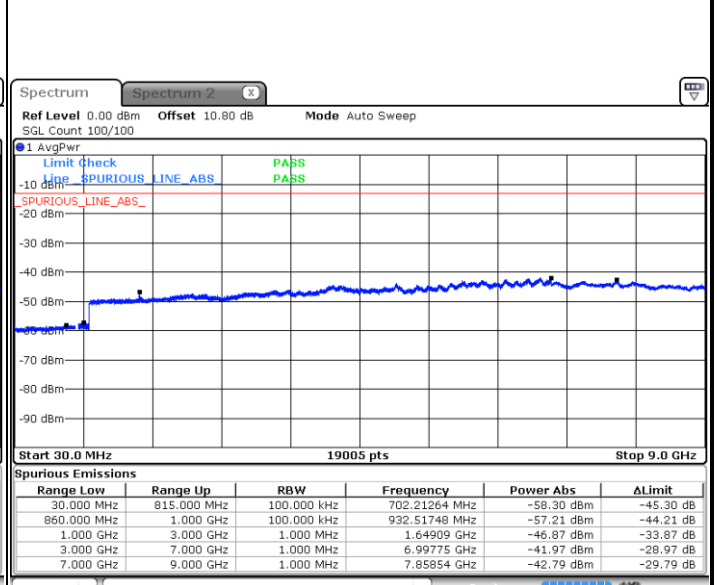
**LTE Band 5 / 3MHz**

**Lowest Channel / QPSK**



Date: 9 AUG.2017 01:13:21

**Lowest Channel / 16QAM**



Date: 9 AUG.2017 01:14:15