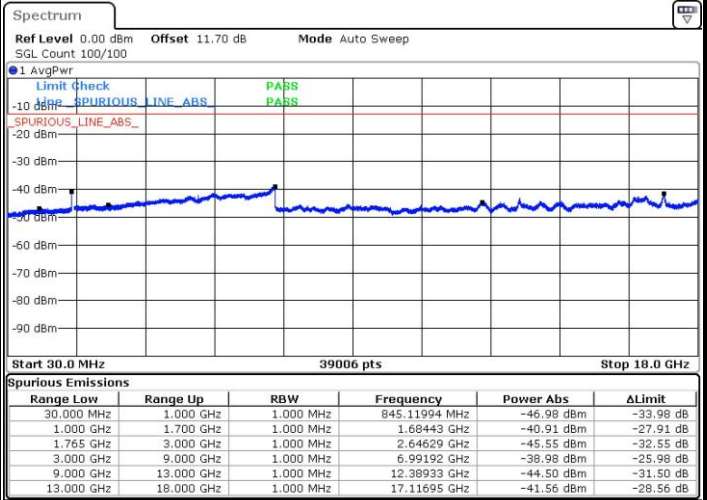
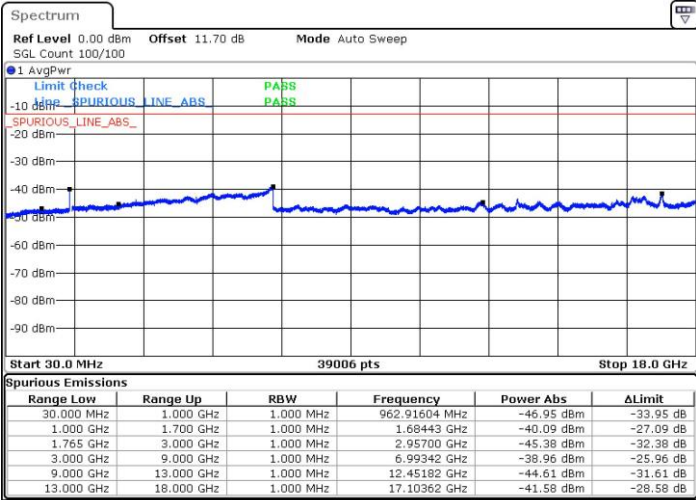




LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

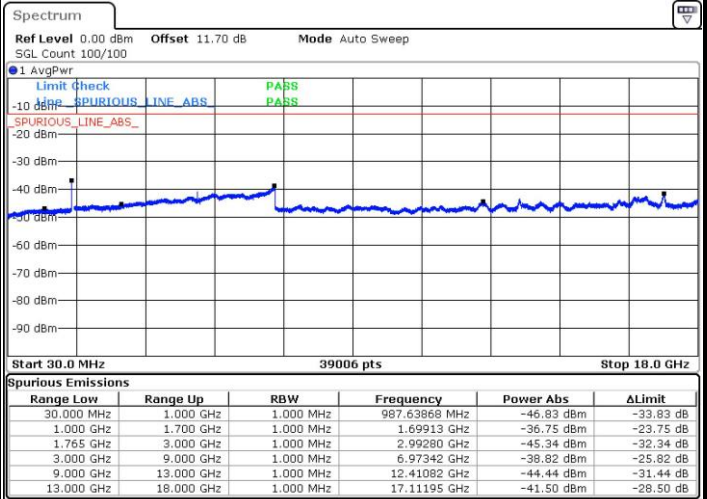
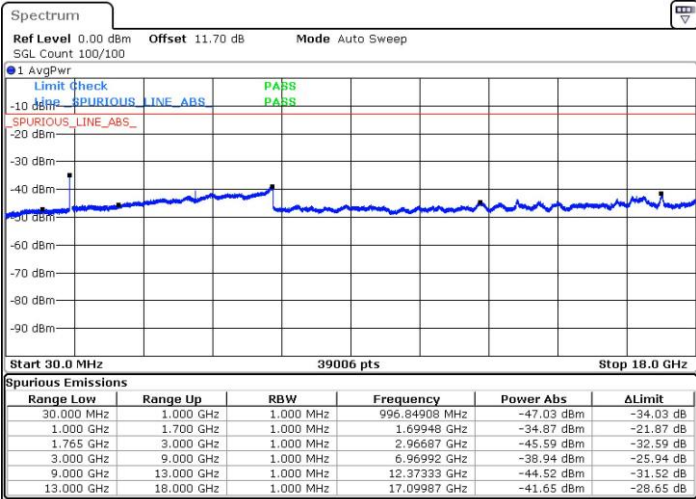


Date: 4.NOV.2016 17:43:32

Date: 4.NOV.2016 17:44:31

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 4.NOV.2016 17:46:16

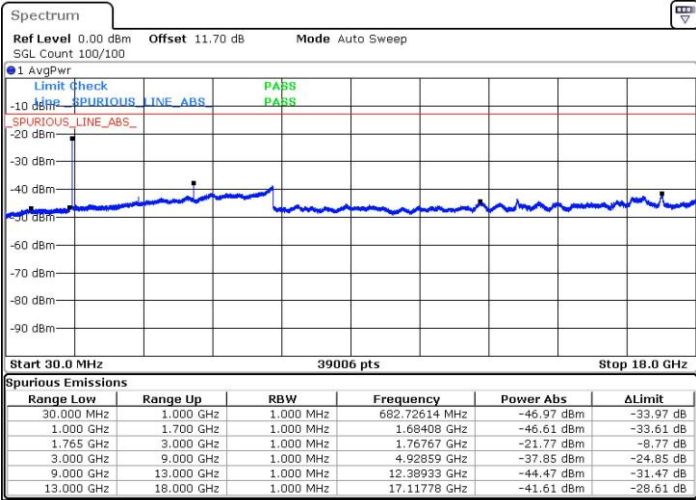
Date: 4.NOV.2016 17:47:14



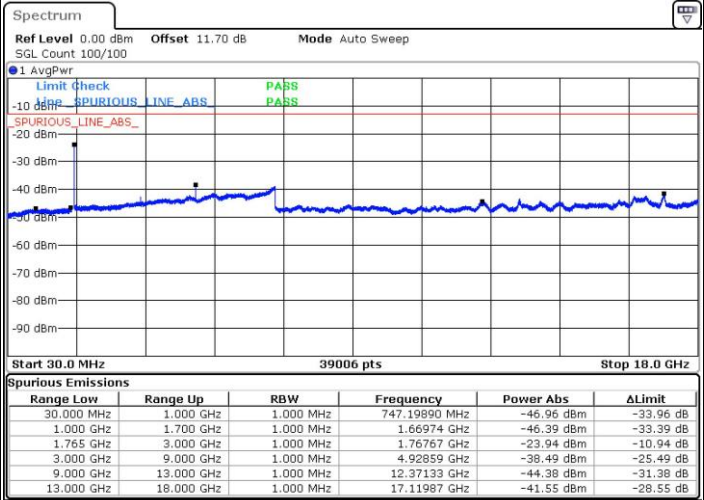
LTE Band 4 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4.NOV.2016 17:53:37

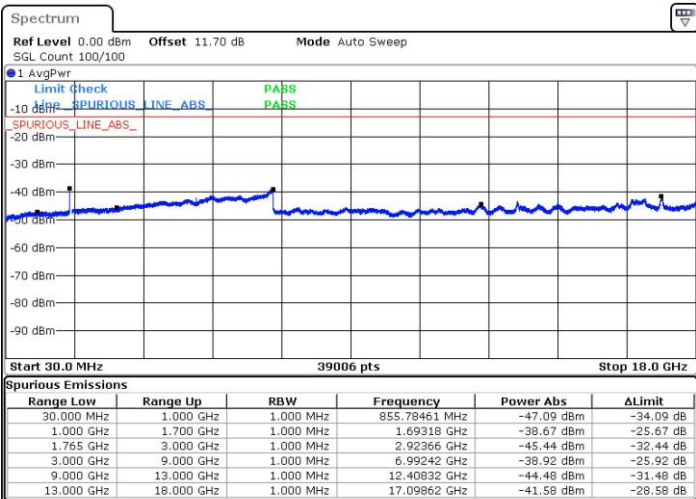


Date: 4.NOV.2016 17:54:35

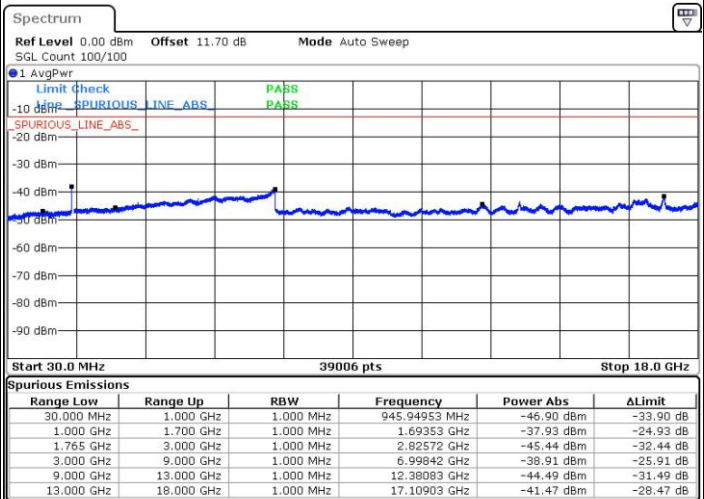
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 4.NOV.2016 18:00:58



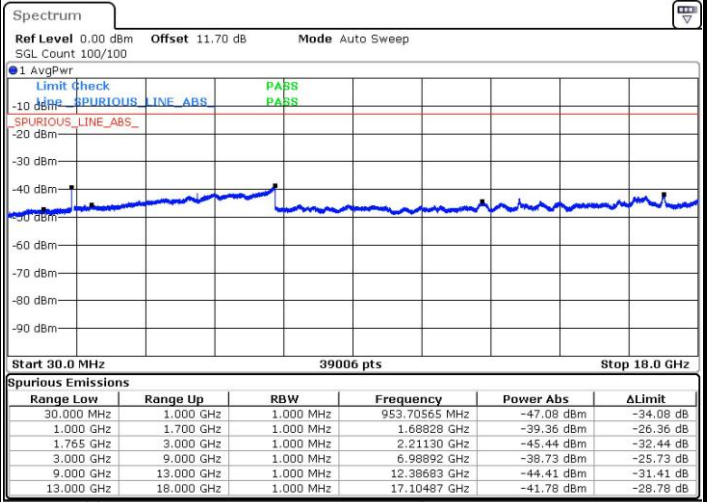
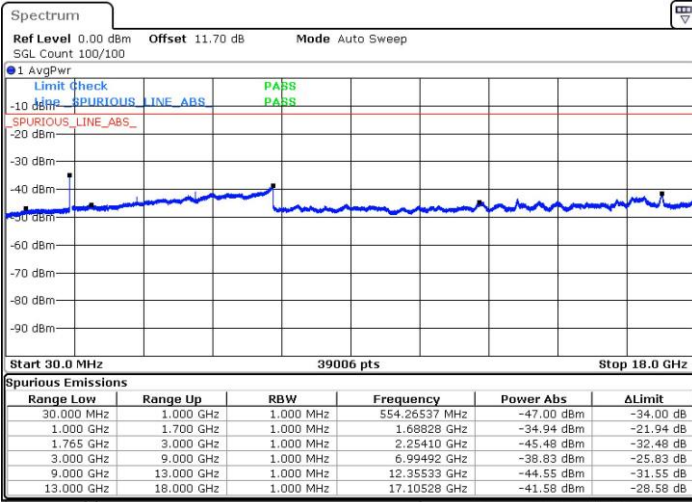
Date: 4.NOV.2016 18:01:56



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

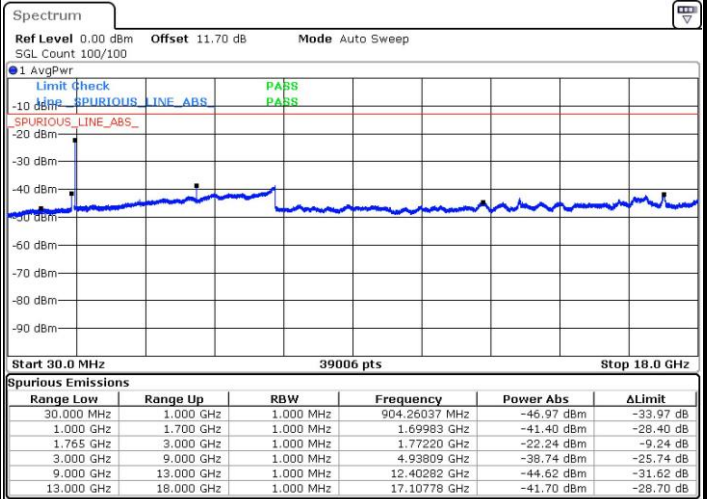
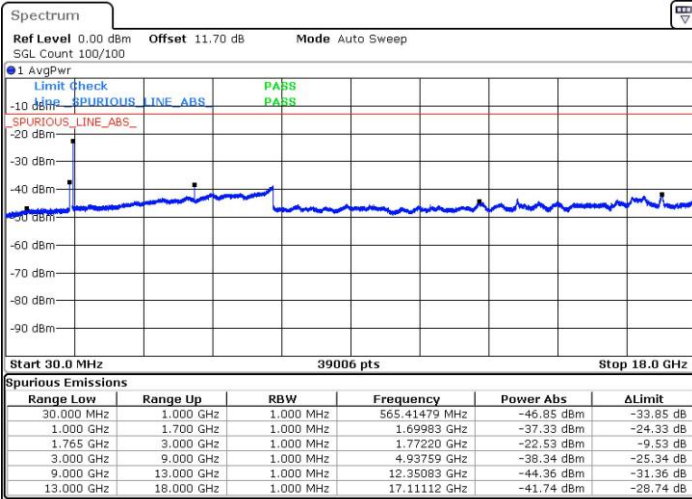


Date: 4.NOV.2016 18:03:41

Date: 4.NOV.2016 18:04:39

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 4.NOV.2016 18:11:01

Date: 4.NOV.2016 18:11:59



**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	0.0000	PASS
40	Normal Voltage	0.0136	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0139	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0130	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0141	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0134	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 5

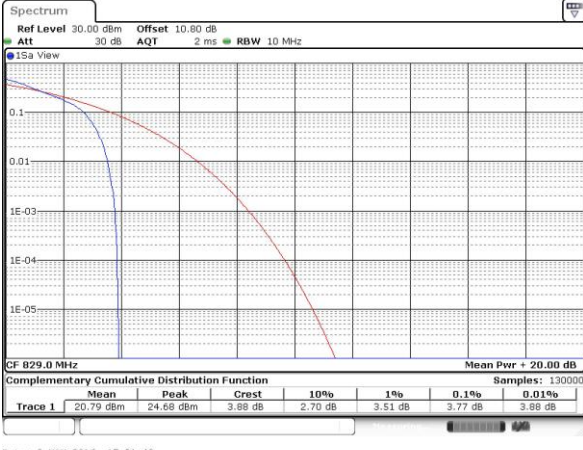
### Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.77	4.93	4.52	5.74	<b>PASS</b>
Middle CH	3.8	4.78	4.7	5.59	
Highest CH	3.33	4.49	4.17	5.45	



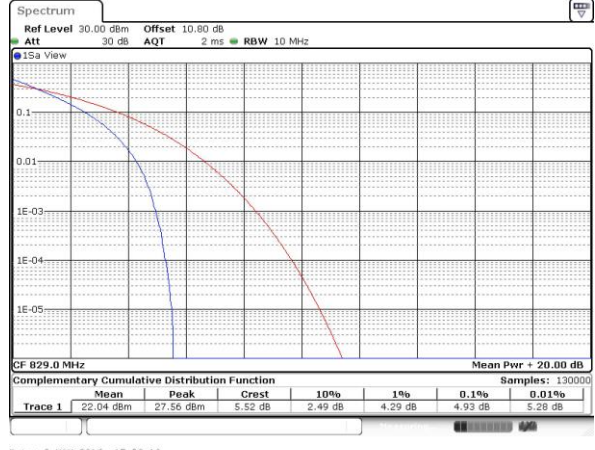
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



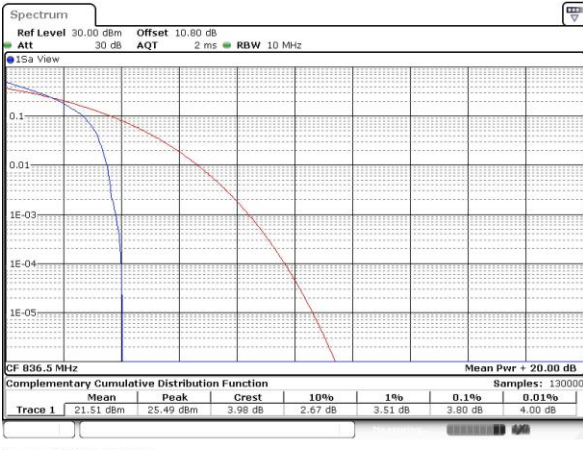
Date: 3,NOV,2016 17:51:43

Lowest Channel / Full RB



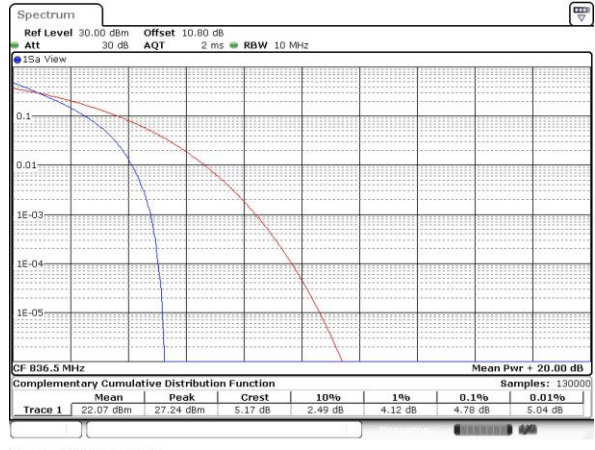
Date: 3,NOV,2016 17:52:10

Middle Channel / 1RB



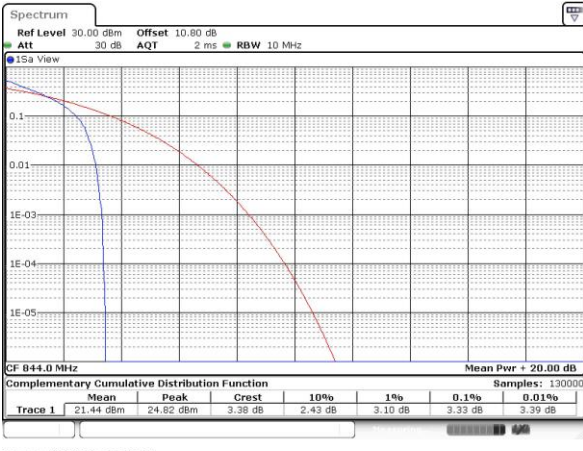
Date: 3,NOV,2016 17:52:39

Middle Channel / Full RB



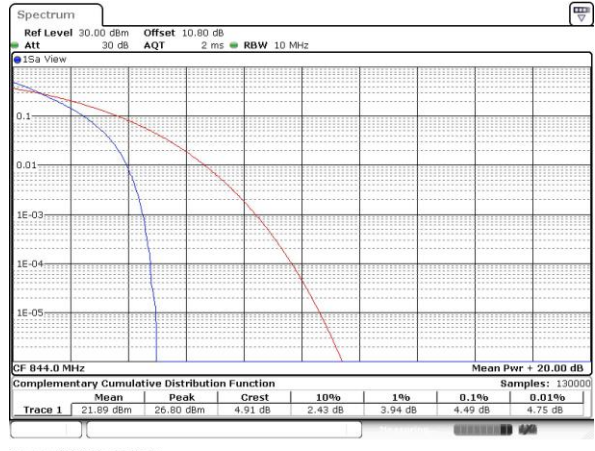
Date: 3,NOV,2016 17:52:56

Highest Channel / 1RB



Date: 3,NOV,2016 17:53:13

Highest Channel / Full RB

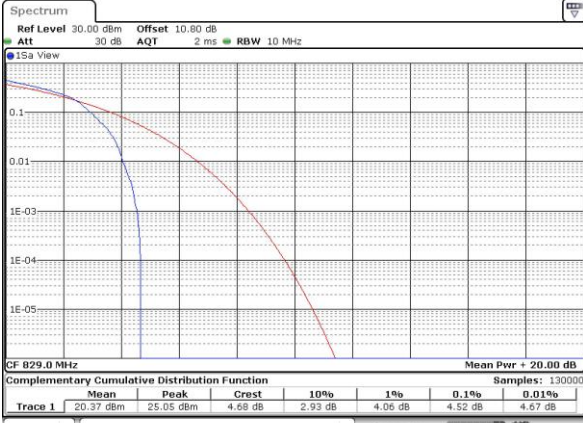


Date: 3,NOV,2016 17:53:24



LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 3,NOV,2016 17:50:07

Lowest Channel / Full RB



Date: 3,NOV,2016 17:50:19

Middle Channel / 1RB



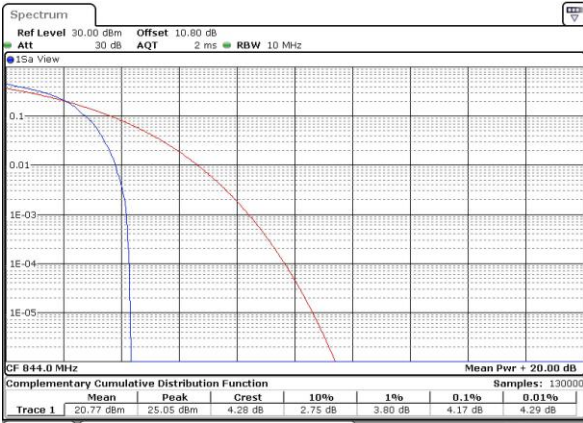
Date: 3,NOV,2016 17:50:31

Middle Channel / Full RB



Date: 3,NOV,2016 17:50:44

Highest Channel / 1RB



Date: 3,NOV,2016 17:50:56

Highest Channel / Full RB



Date: 3,NOV,2016 17:51:17



**26dB Bandwidth**

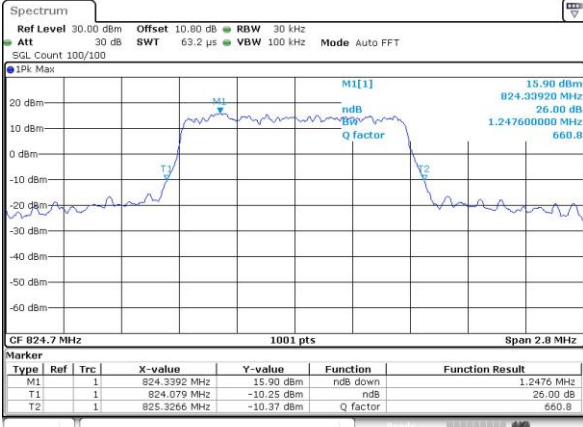
Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.25	1.27	2.96	2.96	5.04	4.93	9.95	10.01	-	-	-	-
Middle CH	1.23	1.27	2.98	3.02	4.94	4.84	9.89	9.77	-	-	-	-
Highest CH	1.26	1.28	2.97	3.00	4.89	4.98	9.91	9.79	-	-	-	-





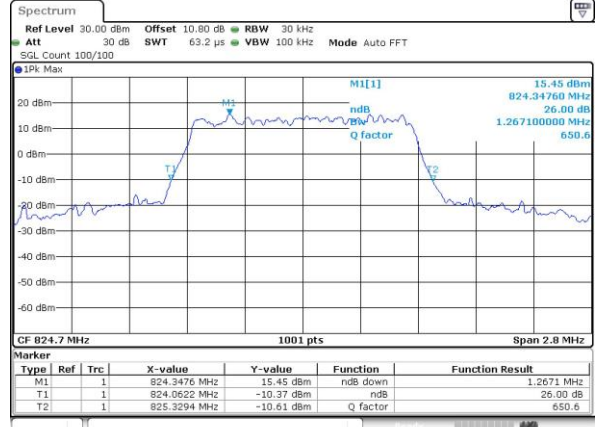
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



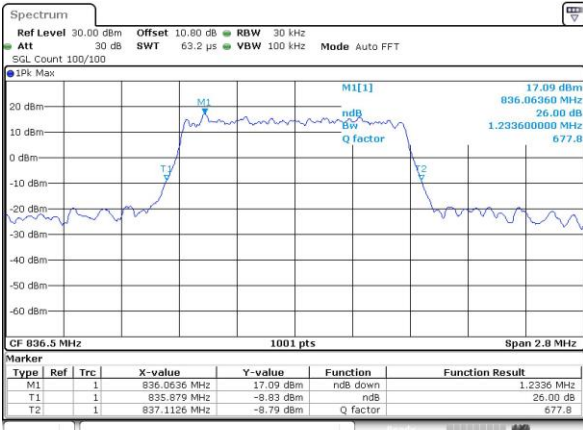
Date: 3,NOV,2016 17:03:03

Lowest Channel / 1.4MHz / 16QAM



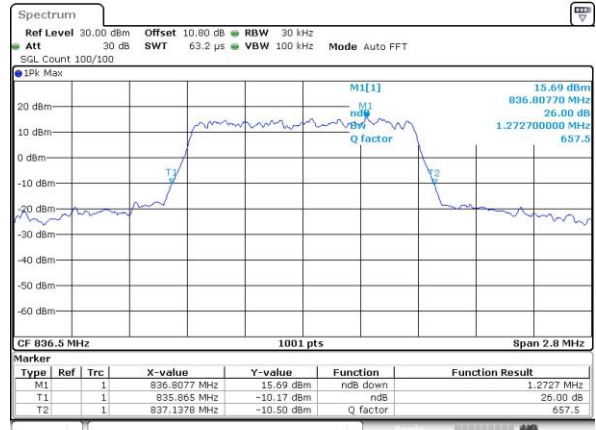
Date: 3,NOV,2016 17:02:51

Middle Channel / 1.4MHz / QPSK



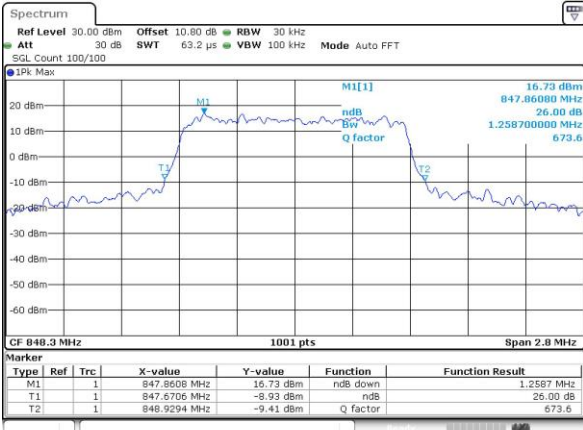
Date: 3,NOV,2016 17:12:13

Middle Channel / 1.4MHz / 16QAM



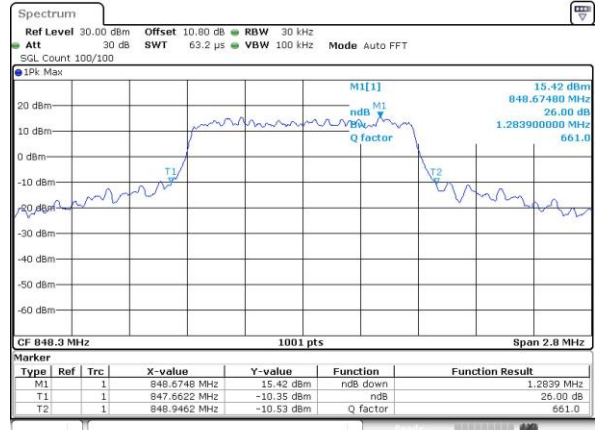
Date: 3,NOV,2016 17:12:25

Highest Channel / 1.4MHz / QPSK



Date: 3,NOV,2016 17:11:57

Highest Channel / 1.4MHz / 16QAM

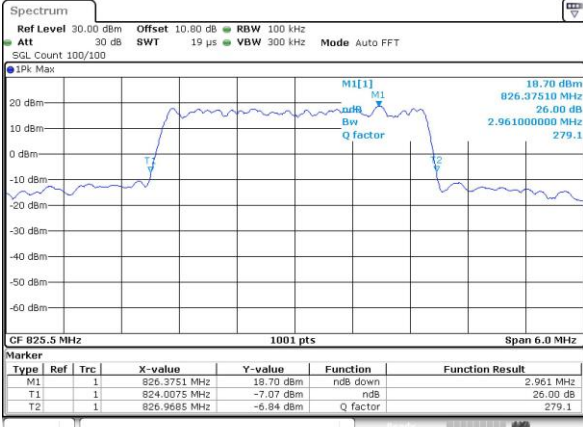


Date: 3,NOV,2016 17:15:08



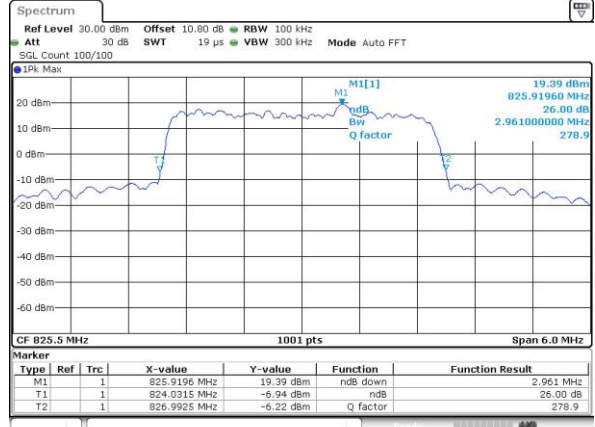
LTE Band 5

Lowest Channel / 3MHz / QPSK



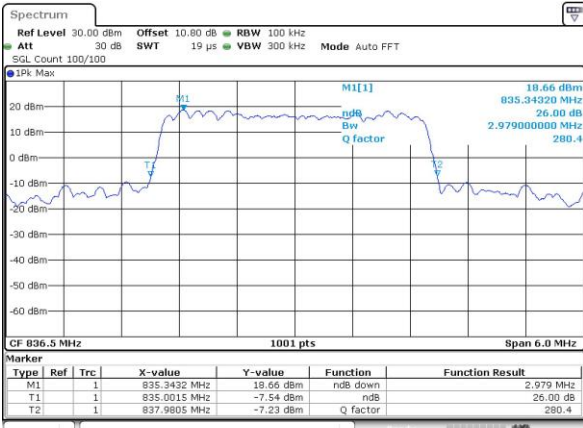
Date: 3,NOV,2016 15:58:31

Lowest Channel / 3MHz / 16QAM



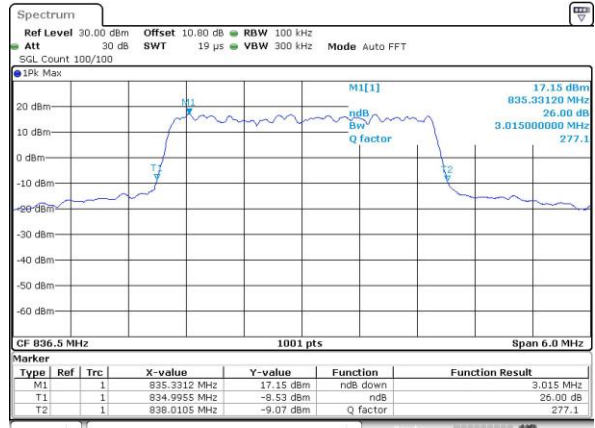
Date: 3,NOV,2016 15:58:42

Middle Channel / 3MHz / QPSK



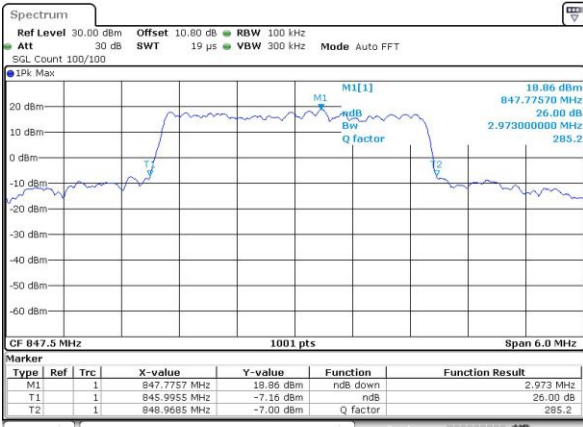
Date: 3,NOV,2016 16:07:53

Middle Channel / 3MHz / 16QAM



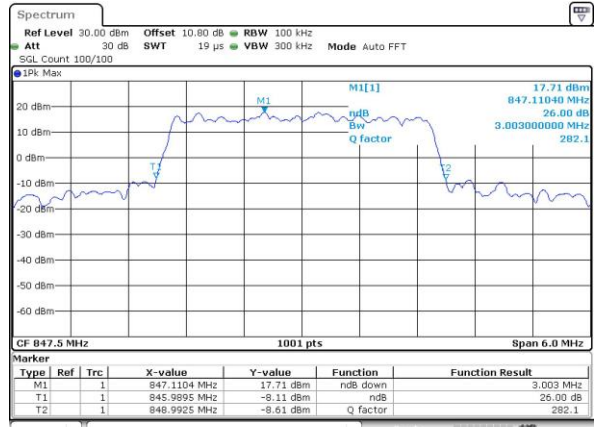
Date: 3,NOV,2016 16:08:04

Highest Channel / 3MHz / QPSK



Date: 3,NOV,2016 16:10:37

Highest Channel / 3MHz / 16QAM

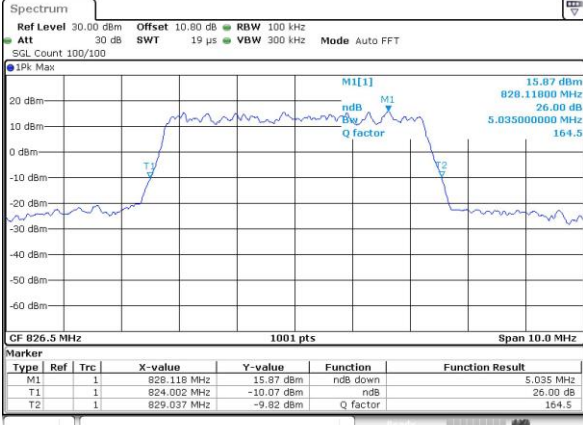


Date: 3,NOV,2016 16:10:48



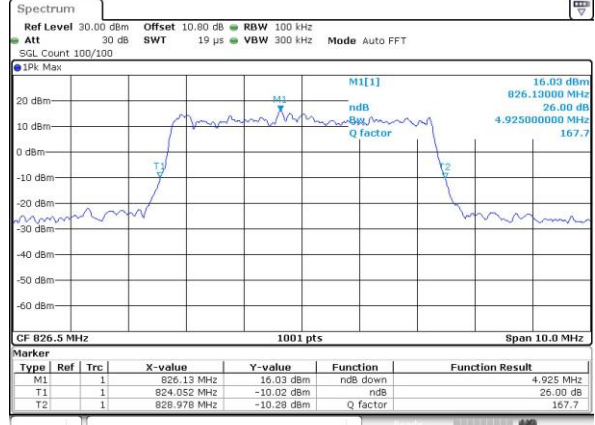
LTE Band 5

Lowest Channel / 5MHz / QPSK



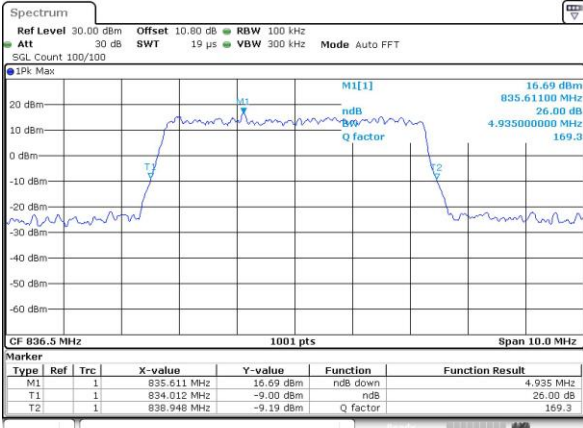
Date: 3,NOV,2016 16:19:58

Lowest Channel / 5MHz / 16QAM



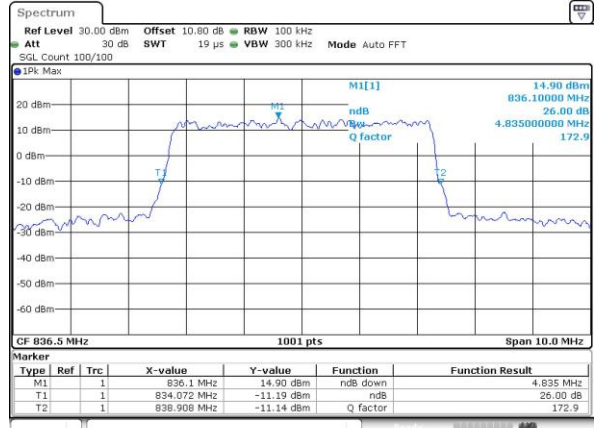
Date: 3,NOV,2016 16:20:10

Middle Channel / 5MHz / QPSK



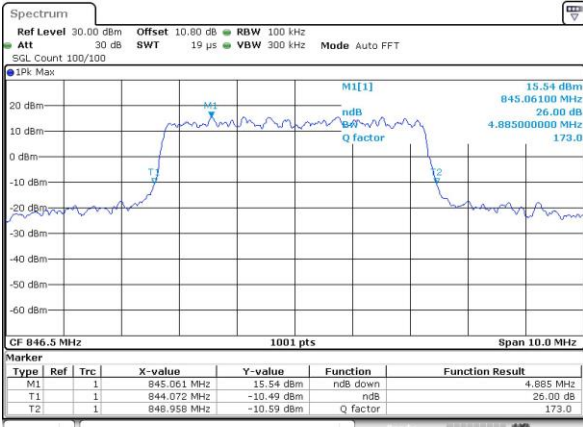
Date: 3,NOV,2016 16:29:20

Middle Channel / 5MHz / 16QAM



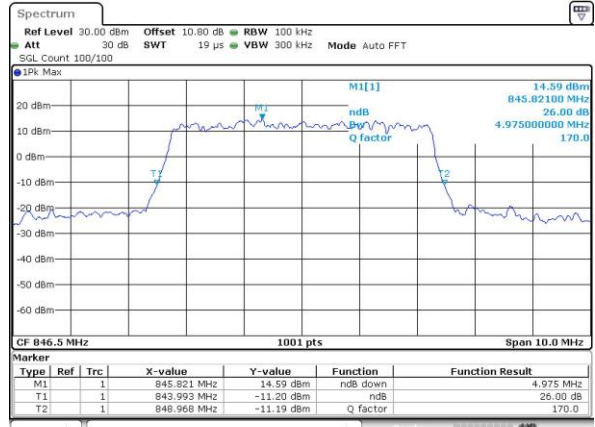
Date: 3,NOV,2016 16:29:32

Highest Channel / 5MHz / QPSK



Date: 3,NOV,2016 16:32:03

Highest Channel / 5MHz / 16QAM

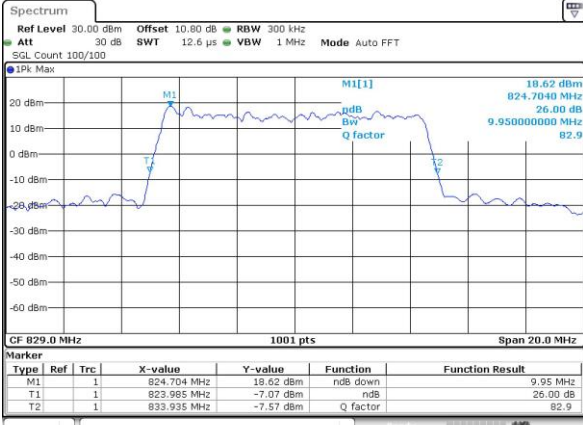


Date: 3,NOV,2016 16:32:15



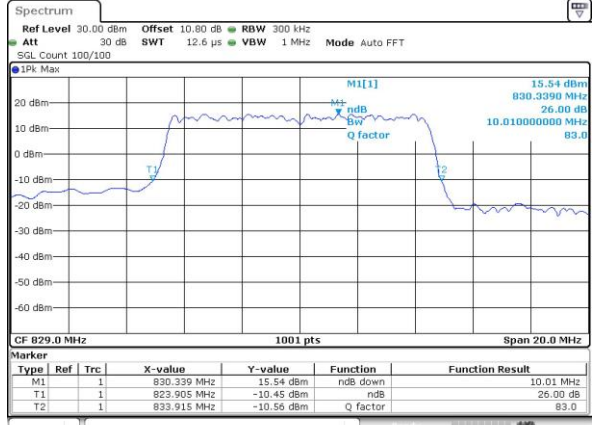
LTE Band 5

Lowest Channel / 10MHz / QPSK



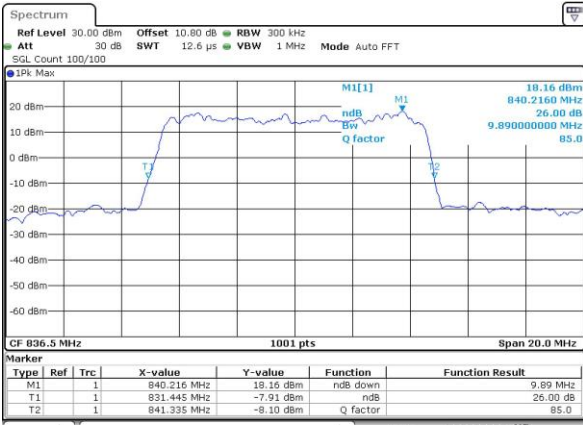
Date: 3,NOV,2016 16:41:24

Lowest Channel / 10MHz / 16QAM



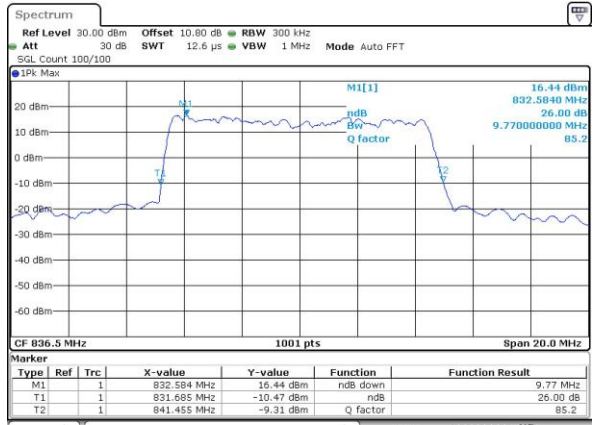
Date: 3,NOV,2016 16:41:36

Middle Channel / 10MHz / QPSK



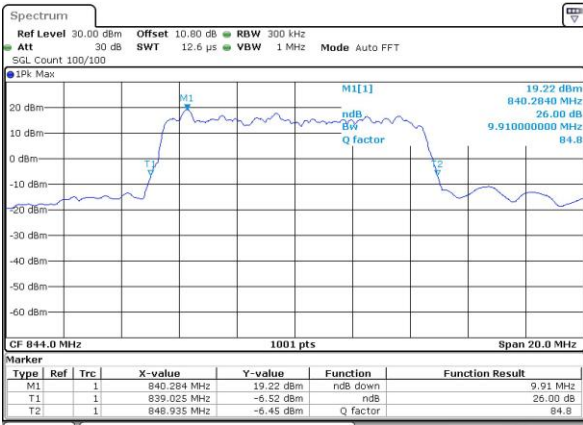
Date: 3,NOV,2016 16:50:46

Middle Channel / 10MHz / 16QAM



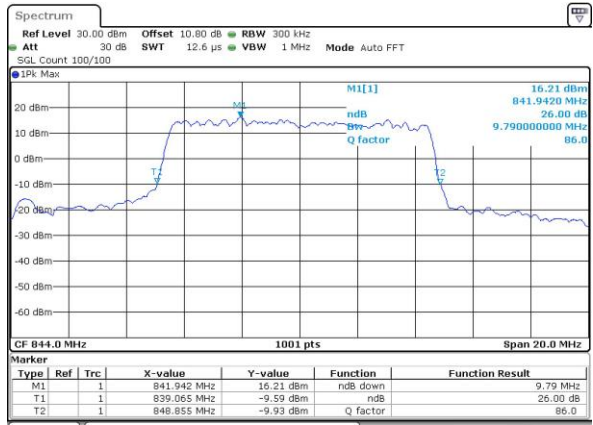
Date: 3,NOV,2016 16:50:58

Highest Channel / 10MHz / QPSK



Date: 3,NOV,2016 16:53:30

Highest Channel / 10MHz / 16QAM



Date: 3,NOV,2016 16:53:41



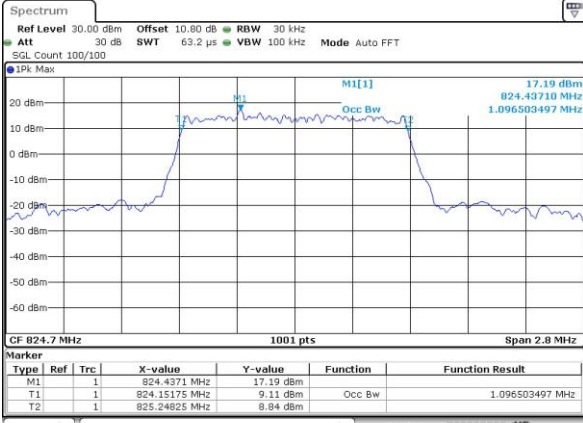
### Occupied Bandwidth

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	1.1	1.09	2.73	2.73	4.52	4.5	9.11	9.03	-	-	-	-
Middle CH	1.09	1.1	2.72	2.72	4.51	4.5	8.99	9.09	-	-	-	-
Highest CH	1.09	1.09	2.73	2.73	4.49	4.49	9.05	9.05	-	-	-	-



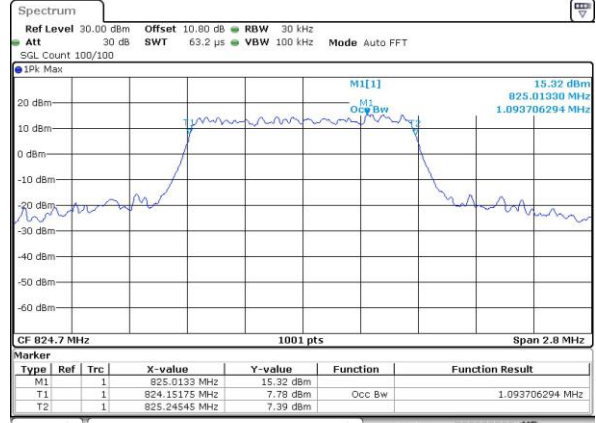
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



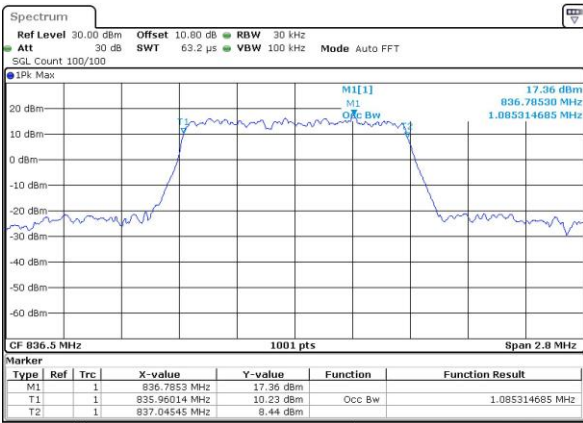
Date: 3,NOV,2016 17:02:28

Lowest Channel / 1.4MHz / 16QAM



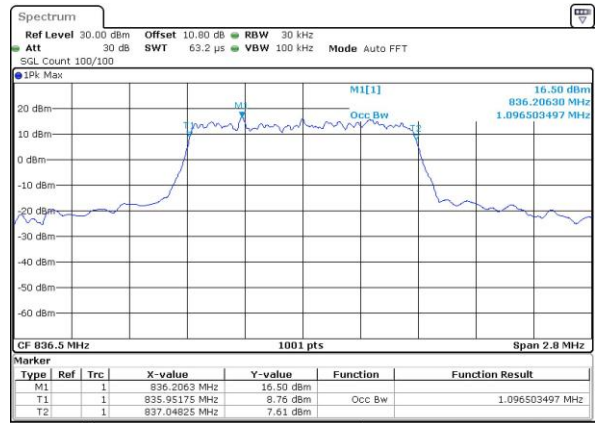
Date: 3,NOV,2016 17:02:40

Middle Channel / 1.4MHz / QPSK



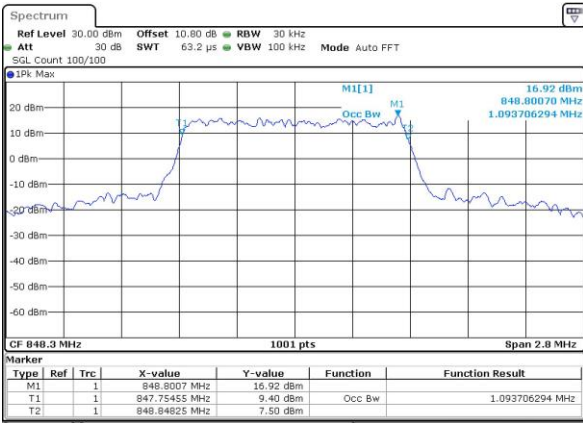
Date: 3,NOV,2016 17:11:49

Middle Channel / 1.4MHz / 16QAM



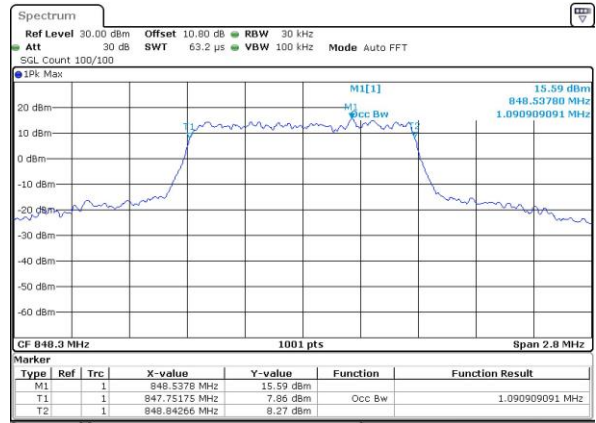
Date: 3,NOV,2016 17:12:01

Highest Channel / 1.4MHz / QPSK



Date: 3,NOV,2016 17:14:33

Highest Channel / 1.4MHz / 16QAM

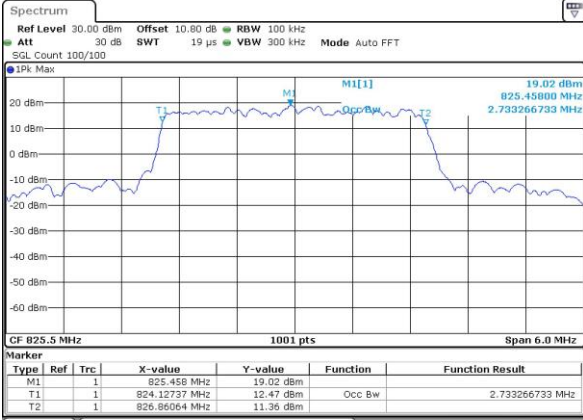


Date: 3,NOV,2016 17:14:45



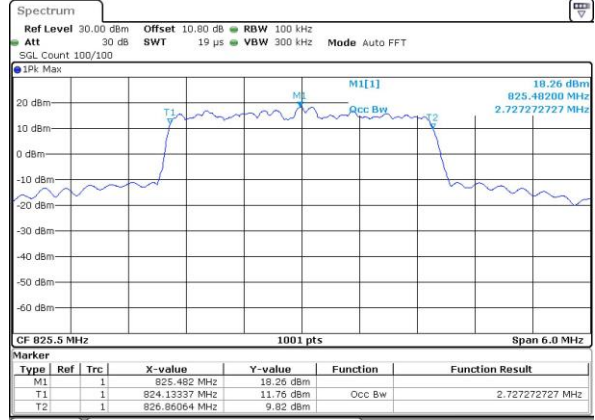
LTE Band 5

Lowest Channel / 3MHz / QPSK



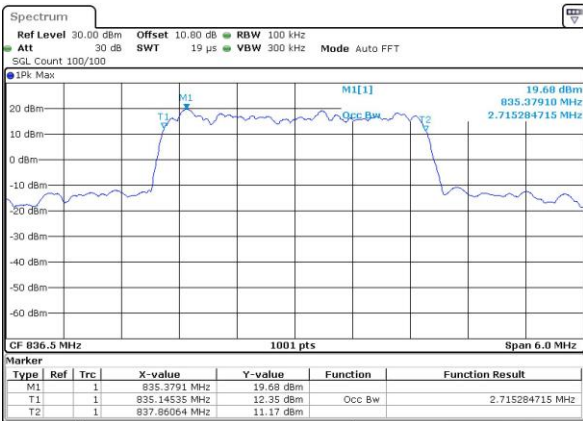
Date: 3,NOV,2016 15:58:07

Lowest Channel / 3MHz / 16QAM



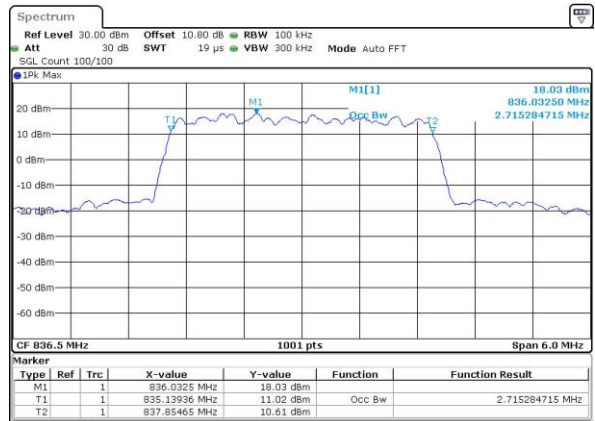
Date: 3,NOV,2016 15:58:19

Middle Channel / 3MHz / QPSK



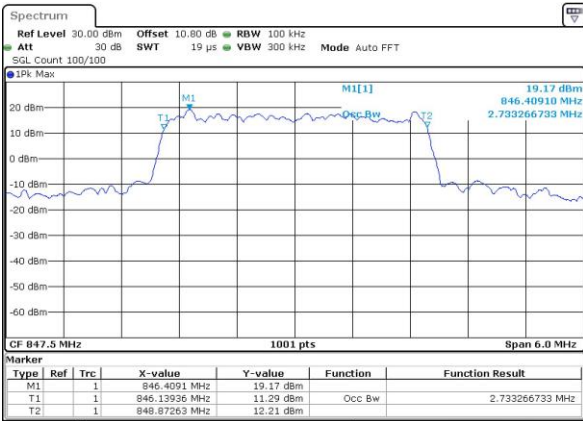
Date: 3,NOV,2016 16:07:20

Middle Channel / 3MHz / 16QAM



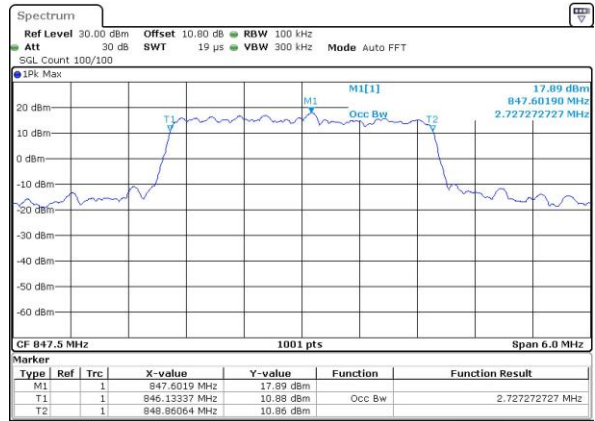
Date: 3,NOV,2016 16:07:41

Highest Channel / 3MHz / QPSK



Date: 3,NOV,2016 16:10:13

Highest Channel / 3MHz / 16QAM

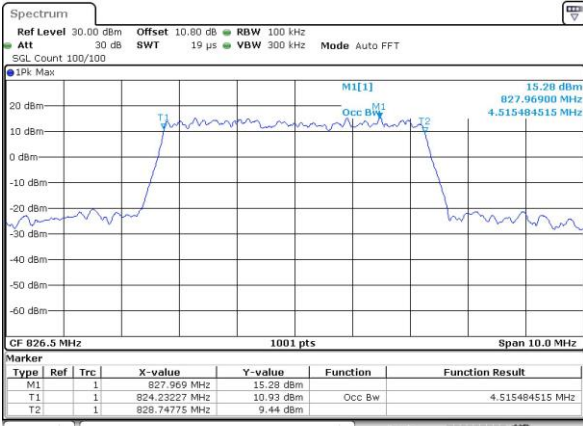


Date: 3,NOV,2016 16:10:25



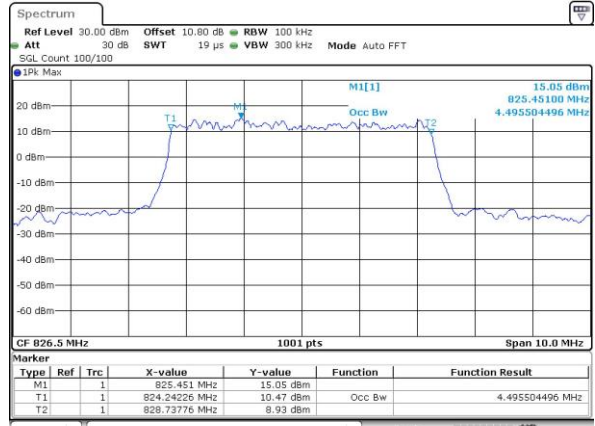
LTE Band 5

Lowest Channel / 5MHz / QPSK



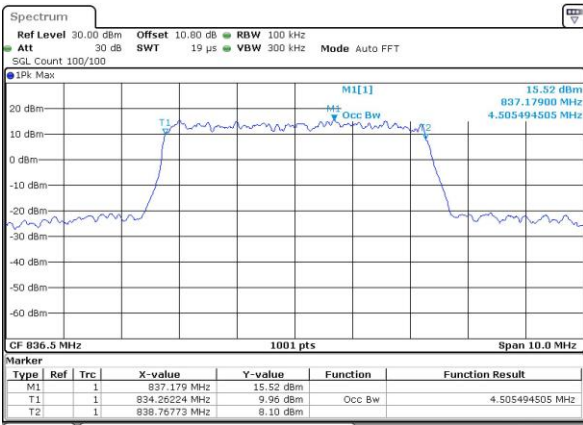
Date: 3,NOV,2016 16:19:35

Lowest Channel / 5MHz / 16QAM



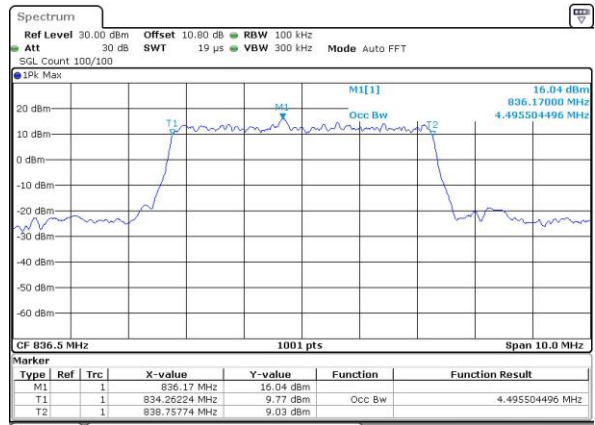
Date: 3,NOV,2016 16:19:46

Middle Channel / 5MHz / QPSK



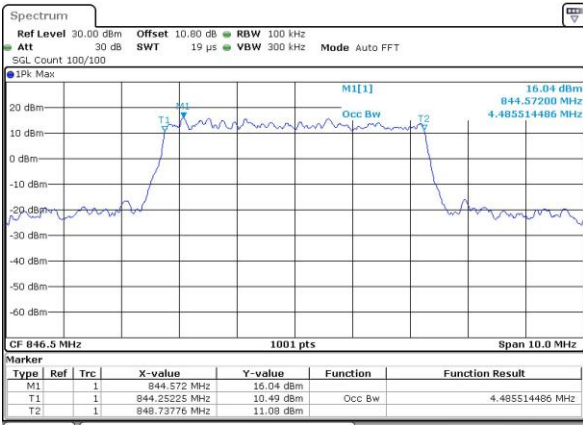
Date: 3,NOV,2016 16:28:56

Middle Channel / 5MHz / 16QAM



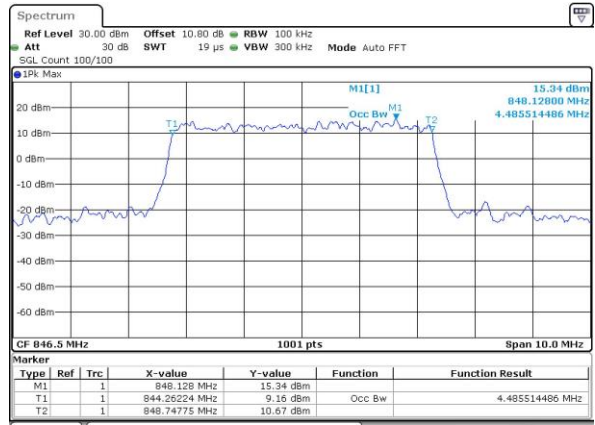
Date: 3,NOV,2016 16:28:08

Highest Channel / 5MHz / QPSK



Date: 3,NOV,2016 16:31:40

Highest Channel / 5MHz / 16QAM



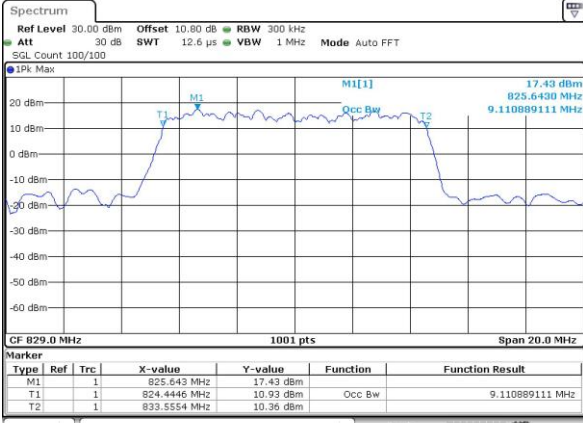
Date: 3,NOV,2016 16:31:51





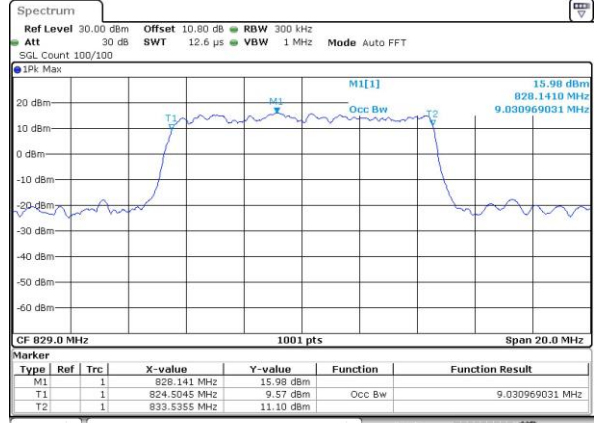
LTE Band 5

Lowest Channel / 10MHz / QPSK



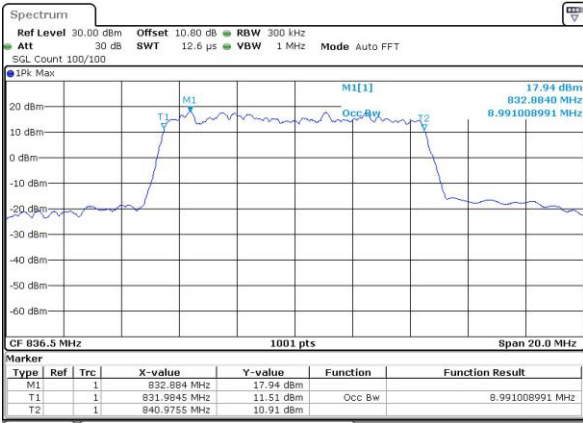
Date: 3,NOV,2016 16:41:01

Lowest Channel / 10MHz / 16QAM



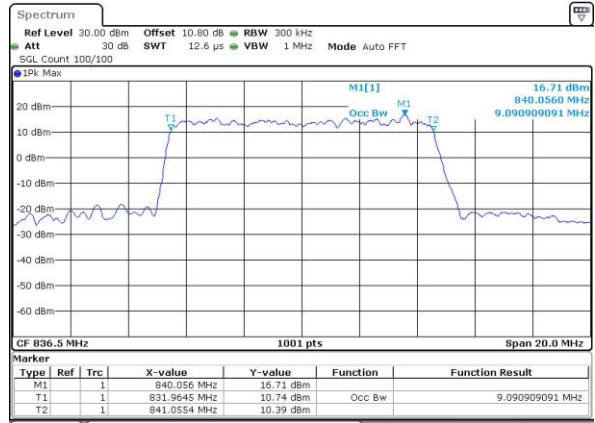
Date: 3,NOV,2016 16:41:13

Middle Channel / 10MHz / QPSK



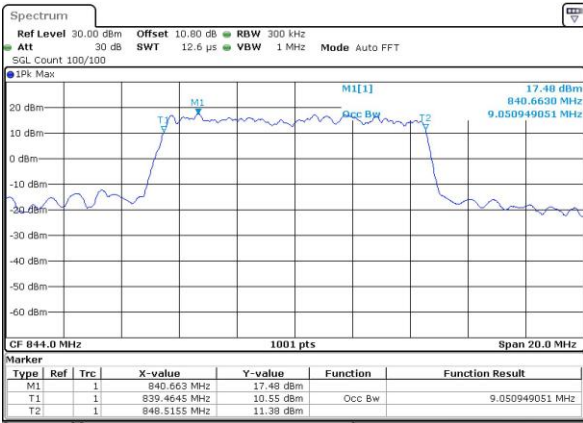
Date: 3,NOV,2016 16:50:23

Middle Channel / 10MHz / 16QAM



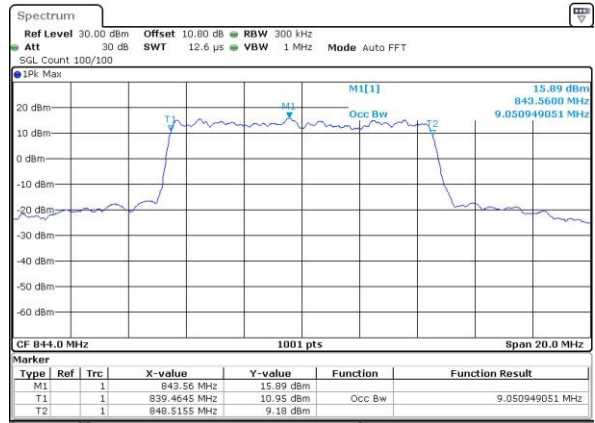
Date: 3,NOV,2016 16:50:34

Highest Channel / 10MHz / QPSK



Date: 3,NOV,2016 16:53:06

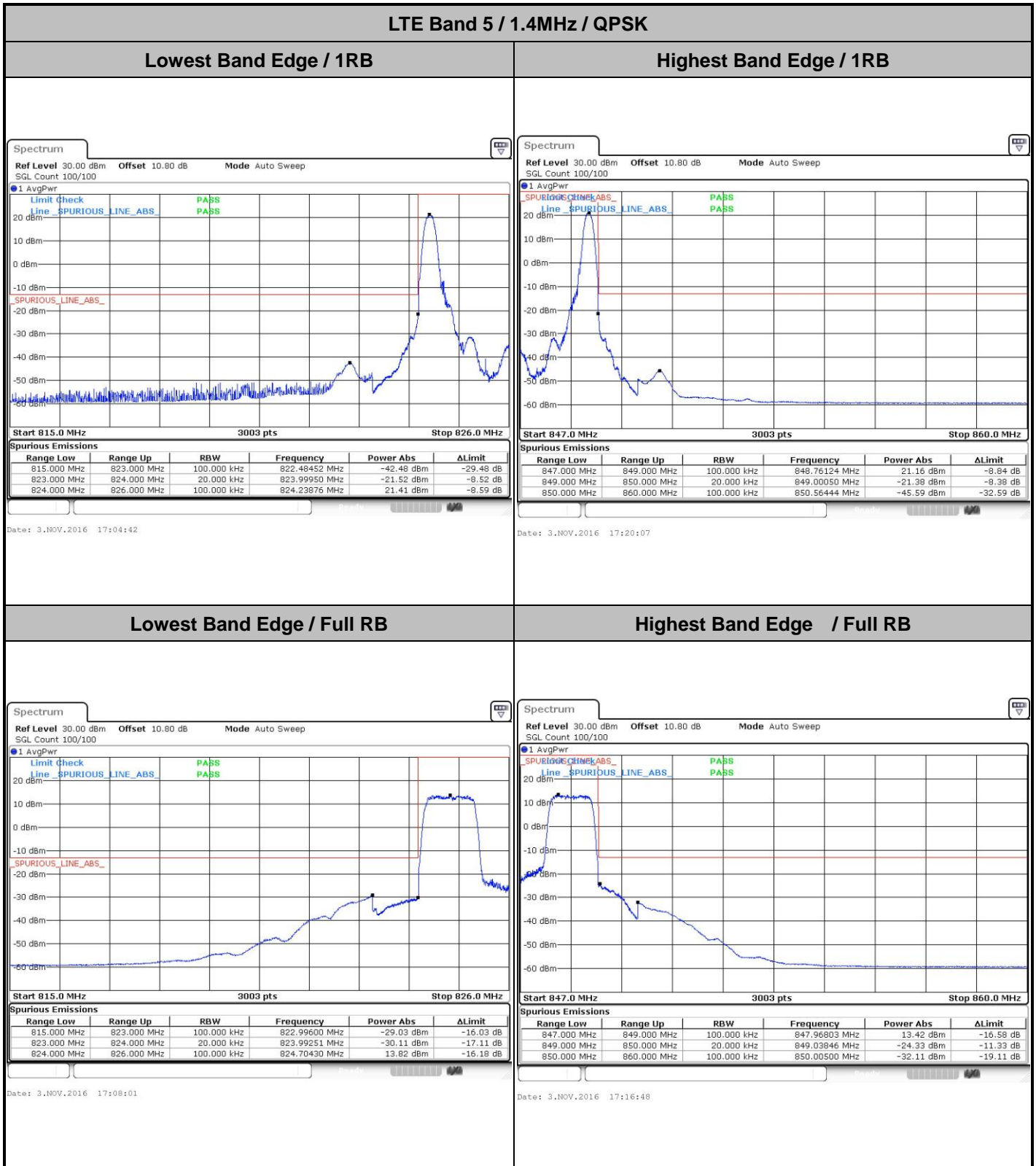
Highest Channel / 10MHz / 16QAM



Date: 3,NOV,2016 16:53:18

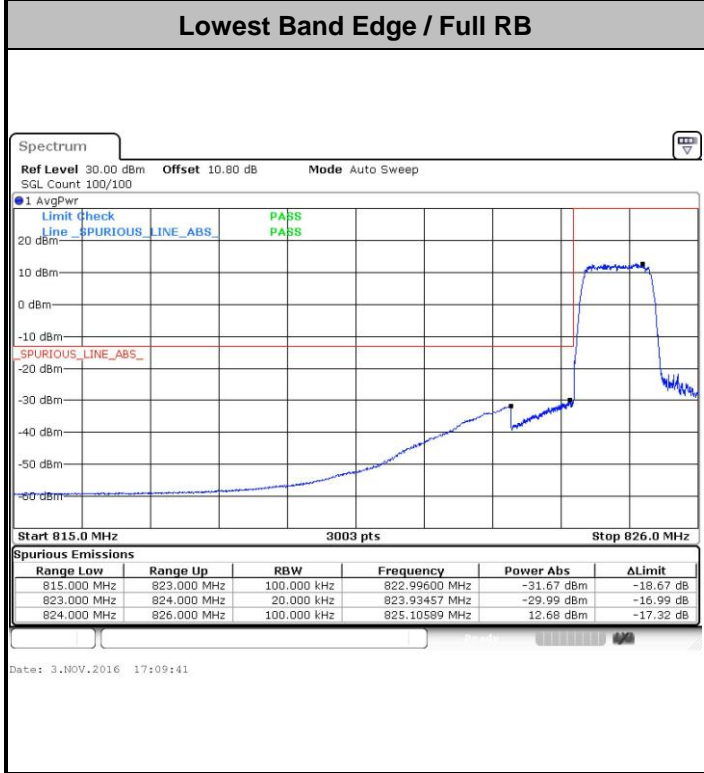
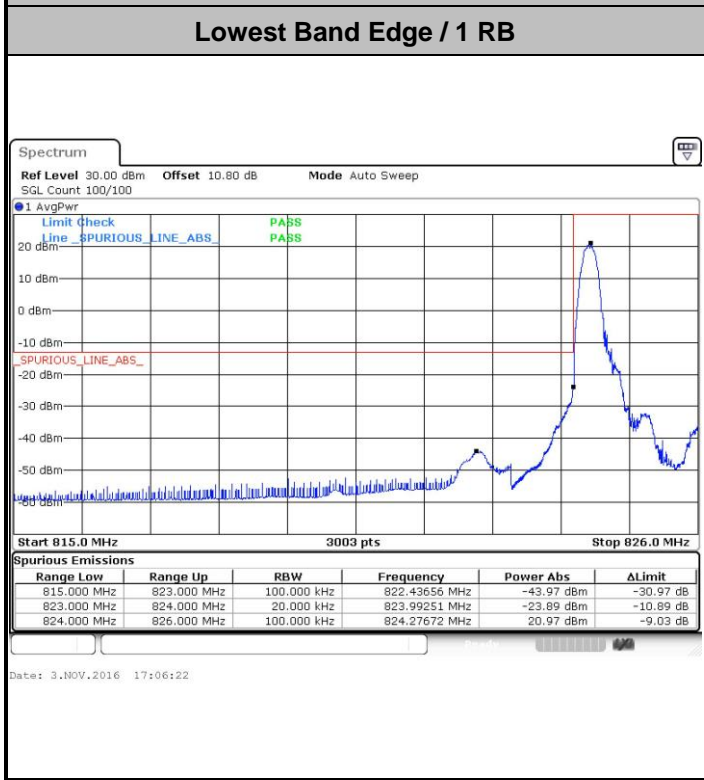


# Conducted Band Edge





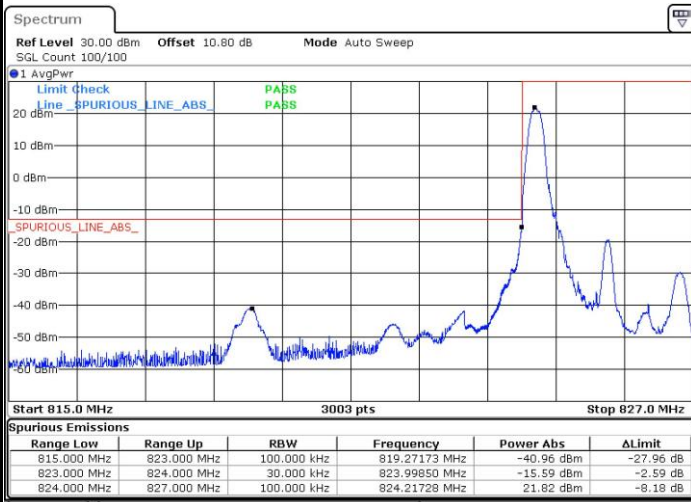
**LTE Band 5 / 1.4MHz / 16QAM**



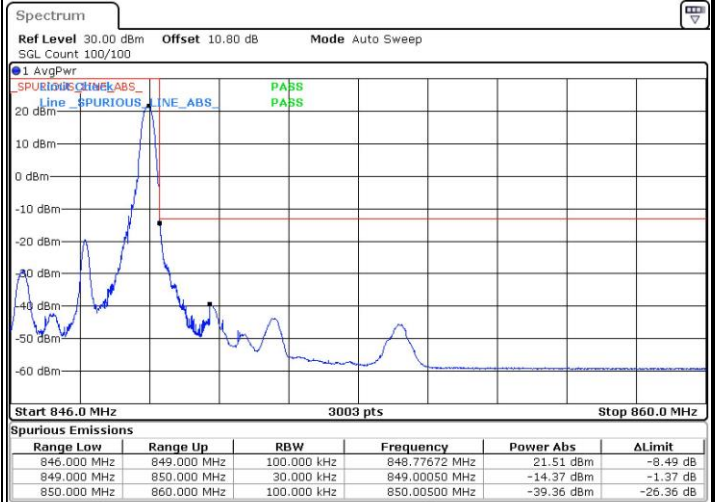


LTE Band 5 / 3MHz / QPSK

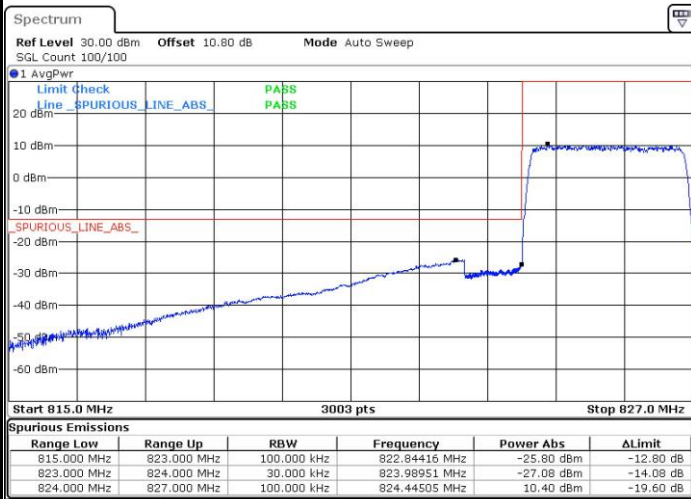
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

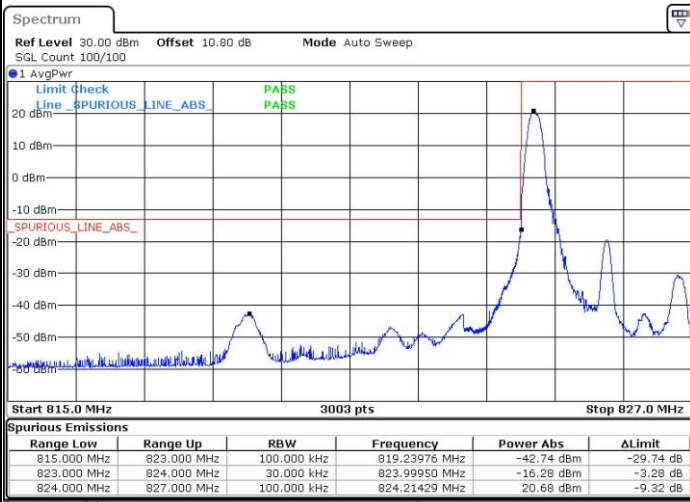




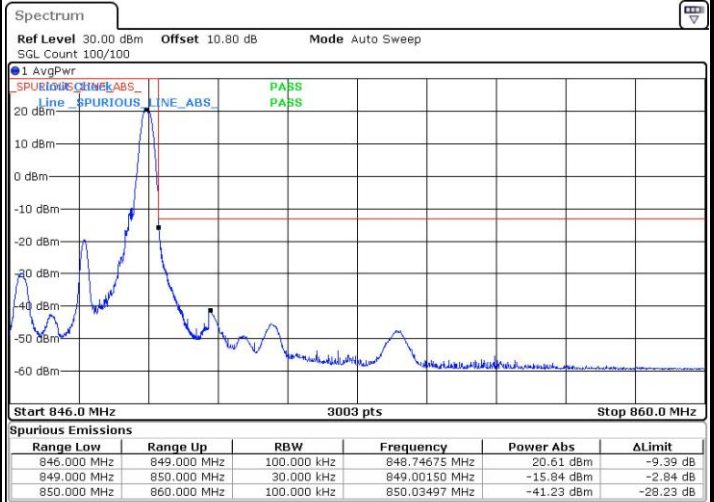
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



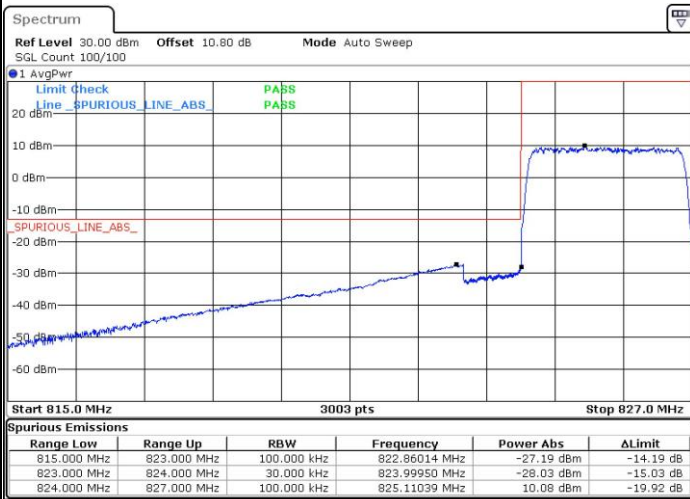
Date: 3.NOV.2016 16:02:01



Date: 3.NOV.2016 16:14:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.NOV.2016 16:05:20



Date: 3.NOV.2016 16:17:26