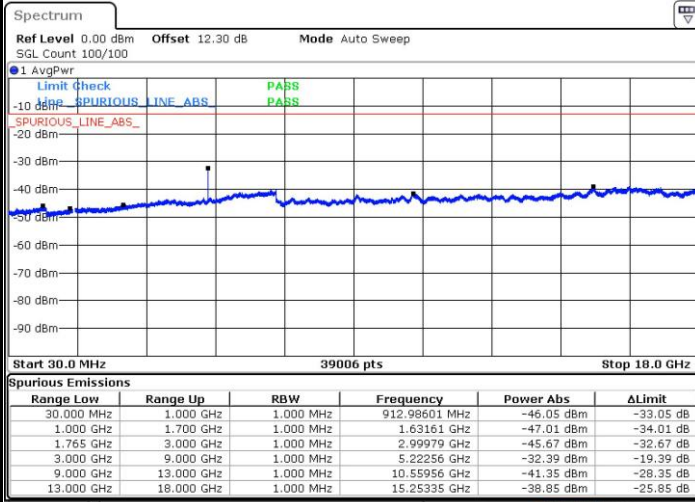




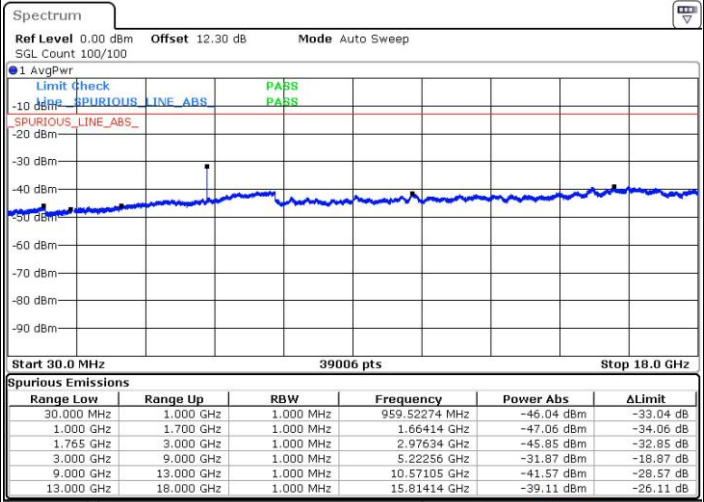
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 20 JUL 2018 02:49:41

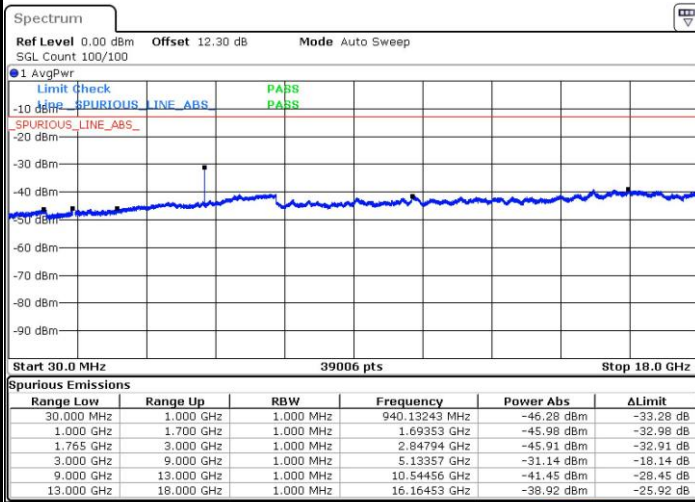
Highest Channel / 16QAM



Date: 20 JUL 2018 02:50:41

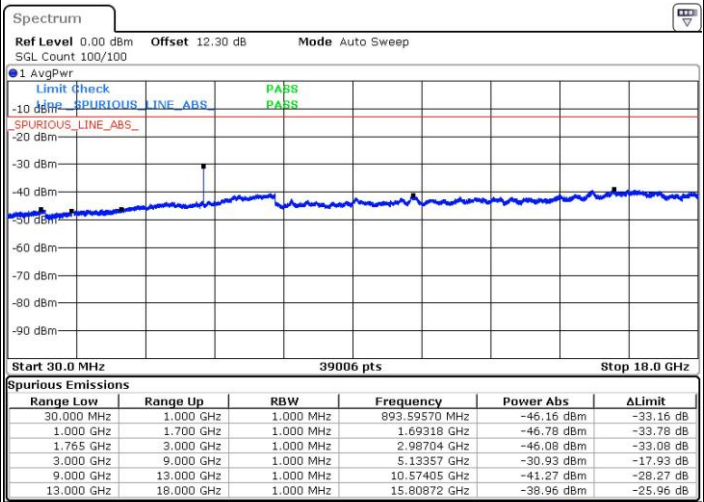
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 20 JUL 2018 02:57:07

Lowest Channel / 16QAM



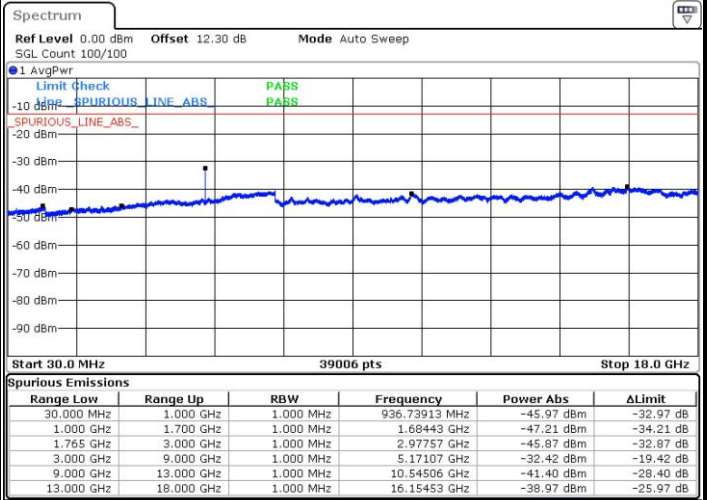
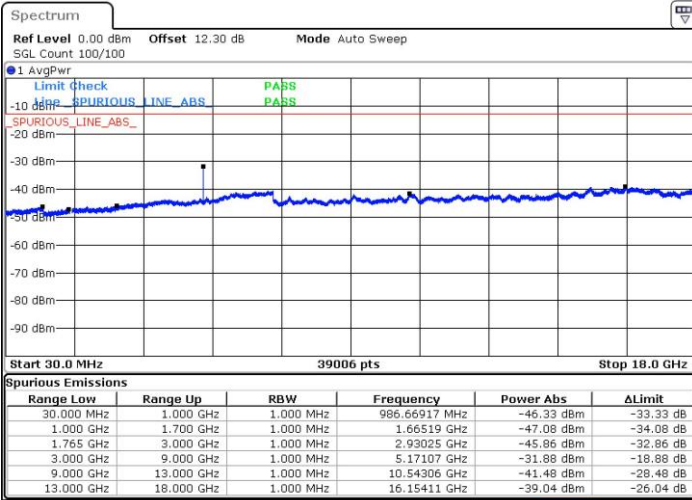
Date: 20 JUL 2018 02:58:06



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

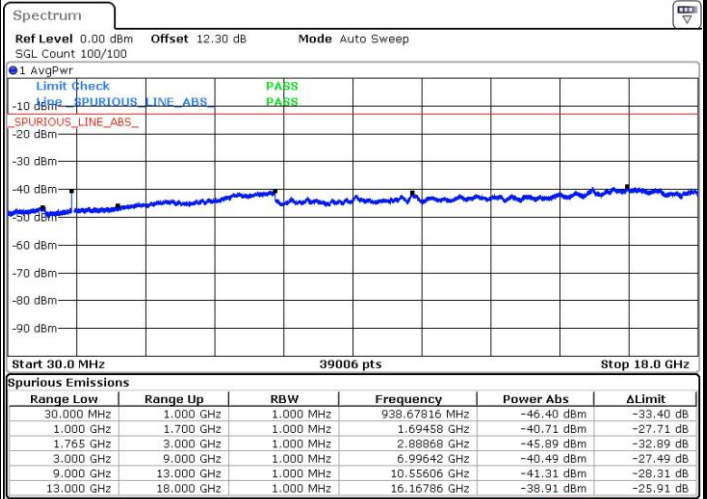
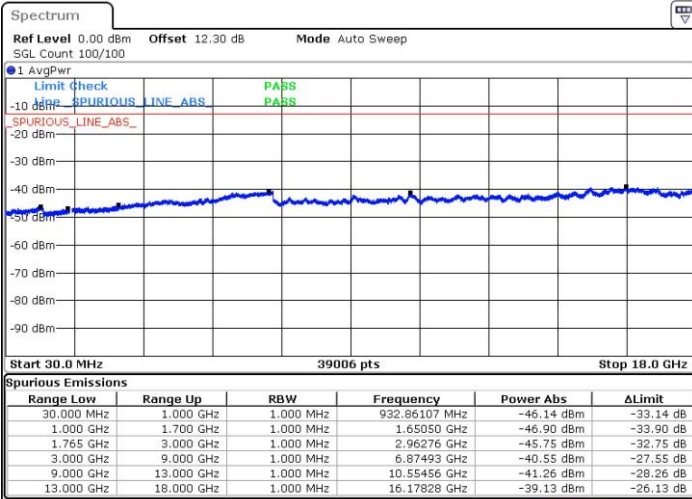


Date: 20 JUL 2018 02:59:46

Date: 20 JUL 2018 03:00:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 JUL 2018 03:07:13

Date: 20 JUL 2018 03:08:12



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	0.0031	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0084	
-10	Normal Voltage	0.0077	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0051	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0077	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 5

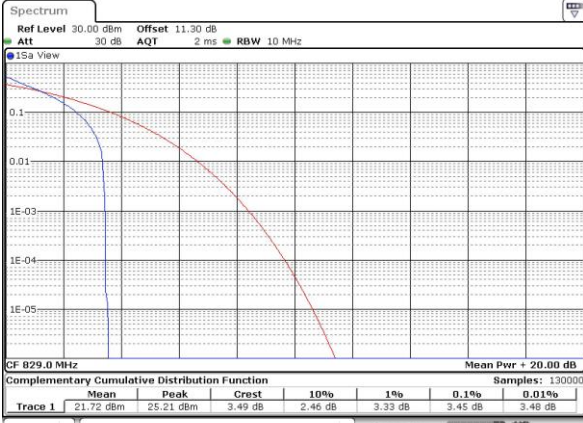
### Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.45	4.96	4.58	5.88	PASS
Middle CH	4.55	4.9	5.33	5.88	
Highest CH	3.77	4.81	4.9	5.83	



LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 20 JUL 2018 05:43:54

Lowest Channel / Full RB



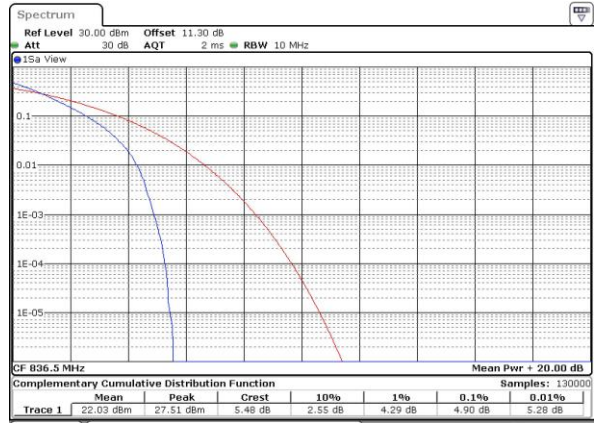
Date: 20 JUL 2018 05:44:03

Middle Channel / 1RB



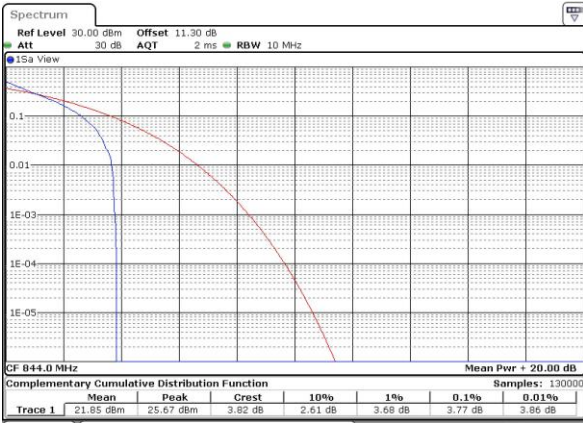
Date: 20 JUL 2018 05:44:12

Middle Channel / Full RB



Date: 20 JUL 2018 05:44:21

Highest Channel / 1RB



Date: 20 JUL 2018 05:44:30

Highest Channel / Full RB

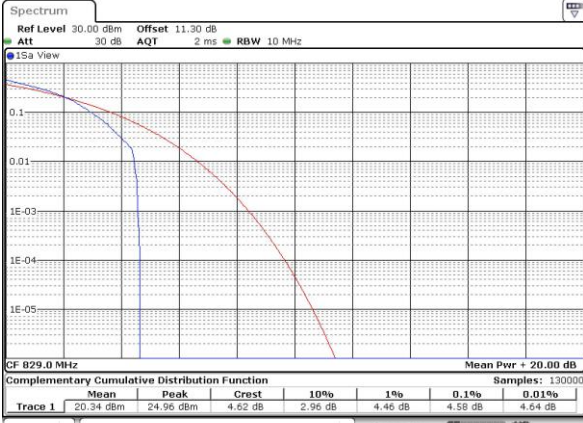


Date: 20 JUL 2018 05:44:41



LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 20 JUL 2018 05:42:57

Lowest Channel / Full RB



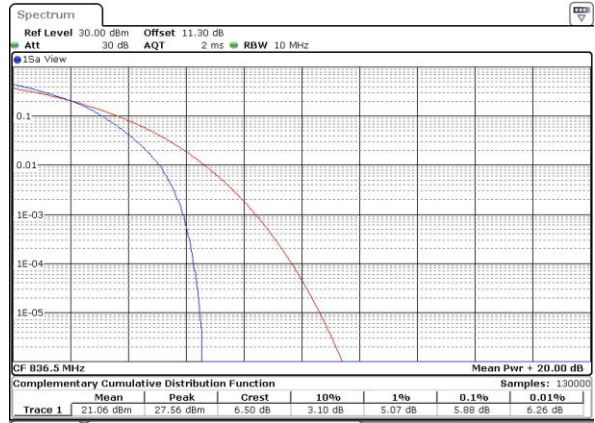
Date: 20 JUL 2018 05:43:06

Middle Channel / 1RB



Date: 20 JUL 2018 05:43:15

Middle Channel / Full RB



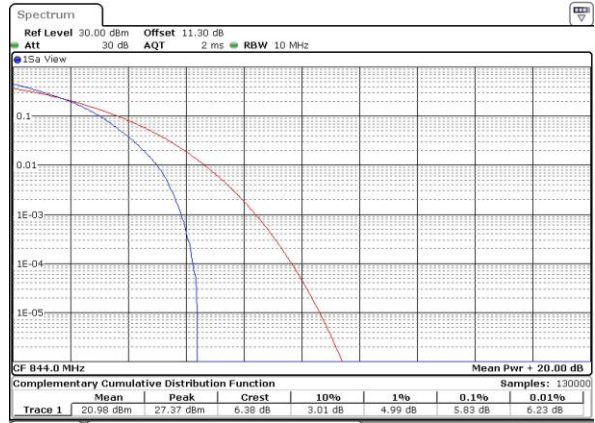
Date: 20 JUL 2018 05:43:24

Highest Channel / 1RB



Date: 20 JUL 2018 05:43:33

Highest Channel / Full RB



Date: 20 JUL 2018 05:43:45



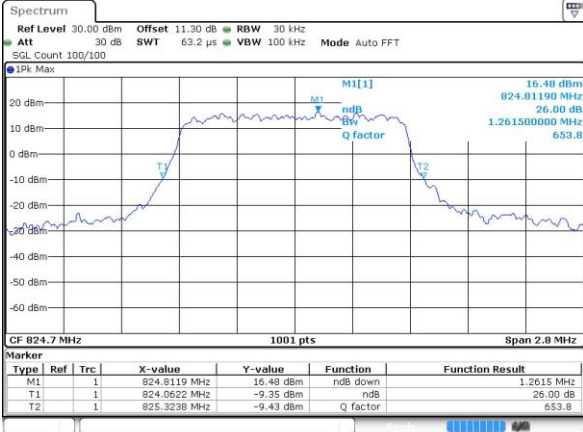
**26dB Bandwidth**

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	1.26	1.25	3.03	3.05	4.88	4.89	9.79	9.87	-	-	-	-
Middle CH	1.26	1.26	2.99	3.02	4.88	4.97	9.87	9.99	-	-	-	-
Highest CH	1.27	1.30	3.03	3.03	4.96	4.88	9.93	9.81	-	-	-	-



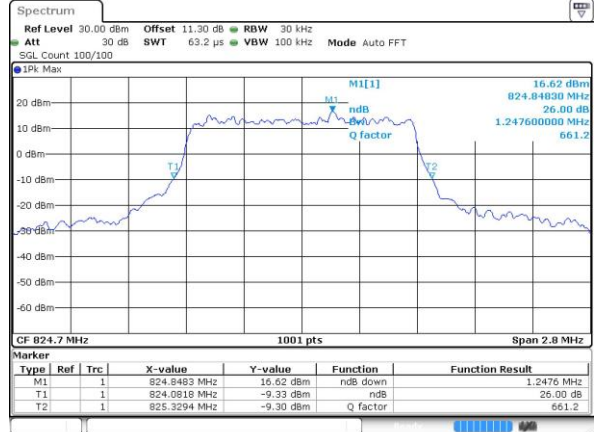
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



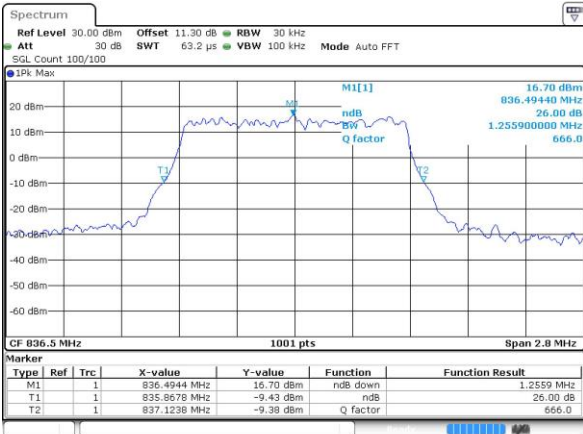
Date: 20 JUL 2018 05:22:54

Lowest Channel / 1.4MHz / 16QAM



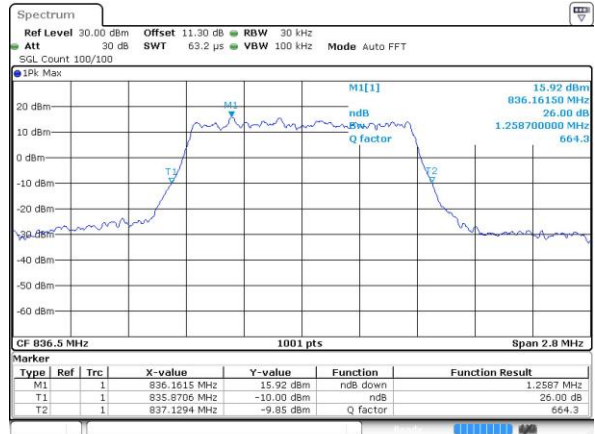
Date: 20 JUL 2018 05:22:44

Middle Channel / 1.4MHz / QPSK



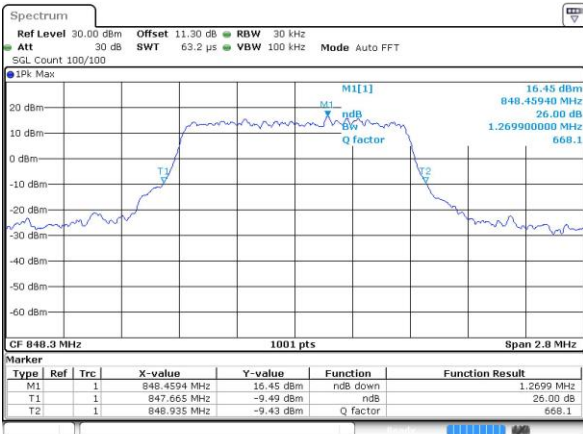
Date: 20 JUL 2018 05:31:43

Middle Channel / 1.4MHz / 16QAM



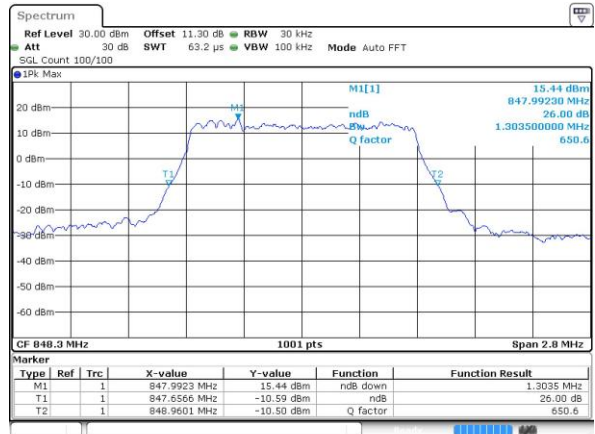
Date: 20 JUL 2018 05:31:53

Highest Channel / 1.4MHz / QPSK



Date: 20 JUL 2018 05:34:12

Highest Channel / 1.4MHz / 16QAM



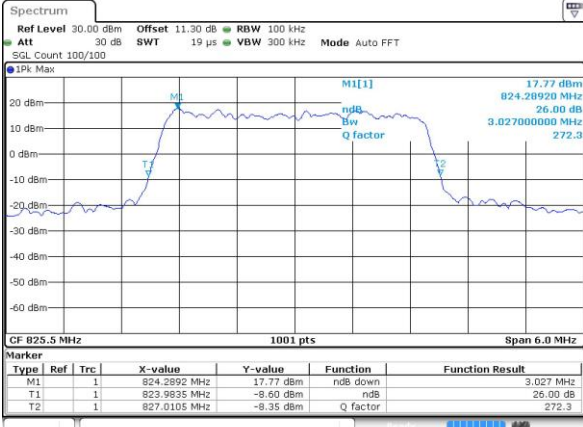
Date: 20 JUL 2018 05:34:22





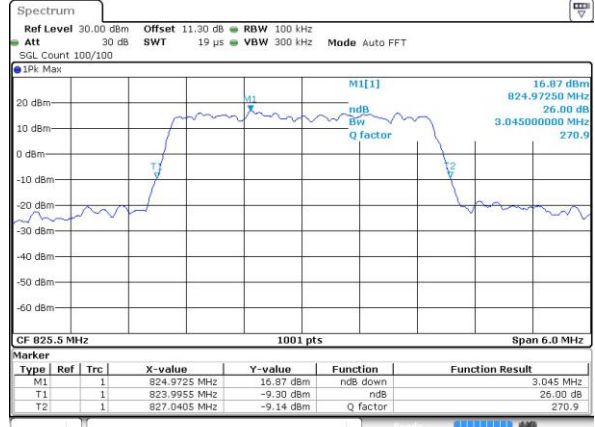
LTE Band 5

Lowest Channel / 3MHz / QPSK



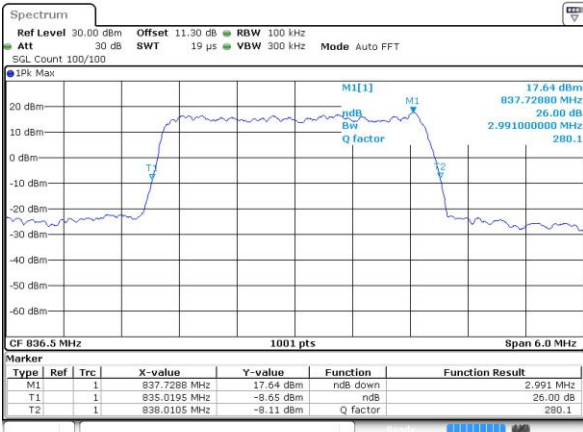
Date: 20 JUL 2018 04:07:13

Lowest Channel / 3MHz / 16QAM



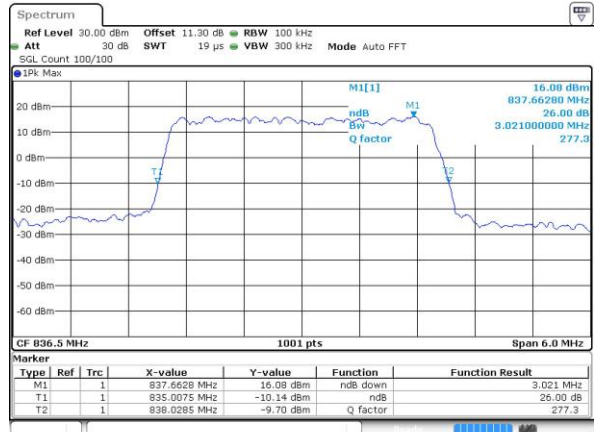
Date: 20 JUL 2018 04:07:23

Middle Channel / 3MHz / QPSK



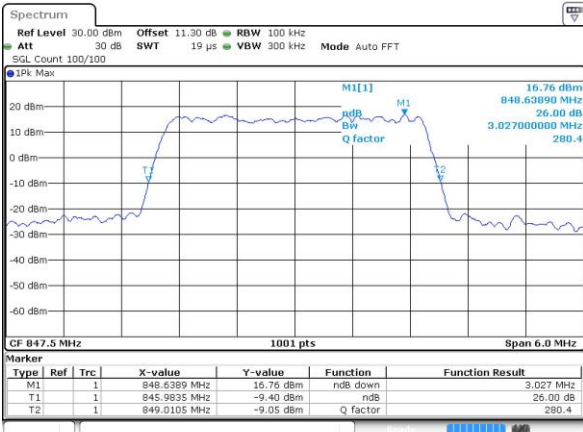
Date: 20 JUL 2018 04:16:42

Middle Channel / 3MHz / 16QAM



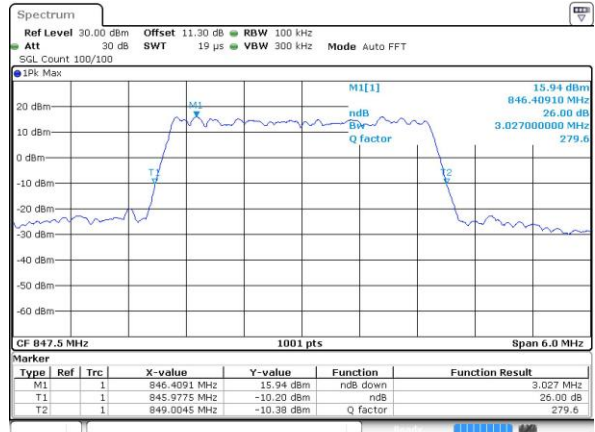
Date: 20 JUL 2018 04:16:53

Highest Channel / 3MHz / QPSK



Date: 20 JUL 2018 04:32:54

Highest Channel / 3MHz / 16QAM

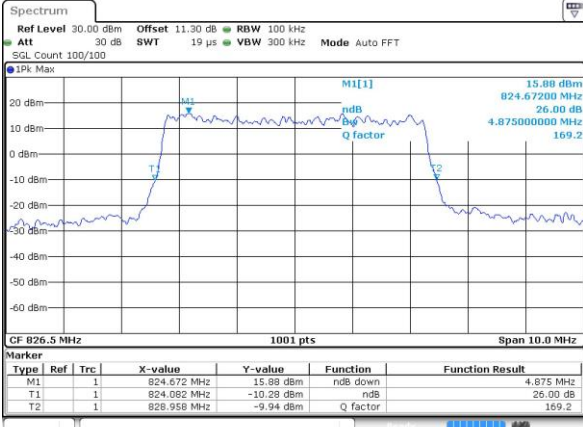


Date: 20 JUL 2018 04:33:04



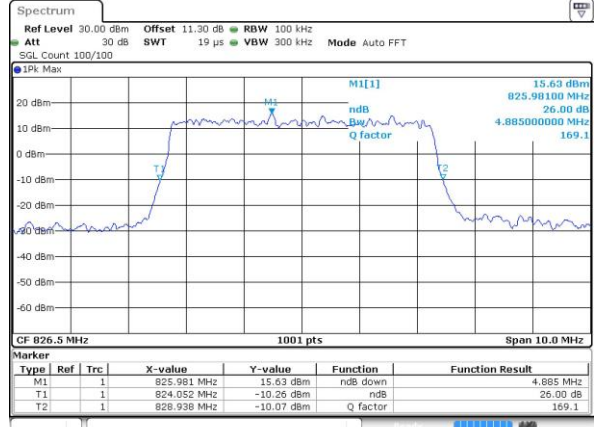
LTE Band 5

Lowest Channel / 5MHz / QPSK



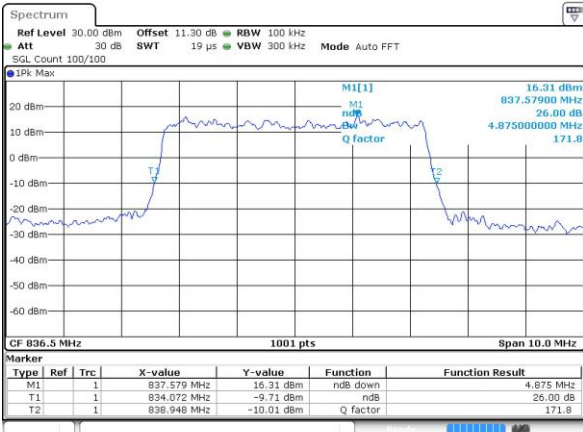
Date: 20 JUL 2018 04:41:53

Lowest Channel / 5MHz / 16QAM



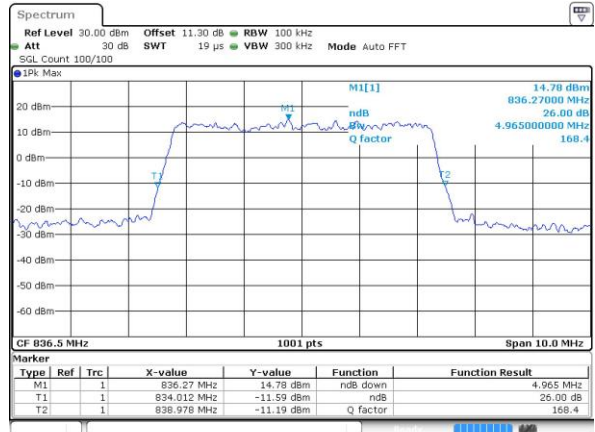
Date: 20 JUL 2018 04:42:03

Middle Channel / 5MHz / QPSK



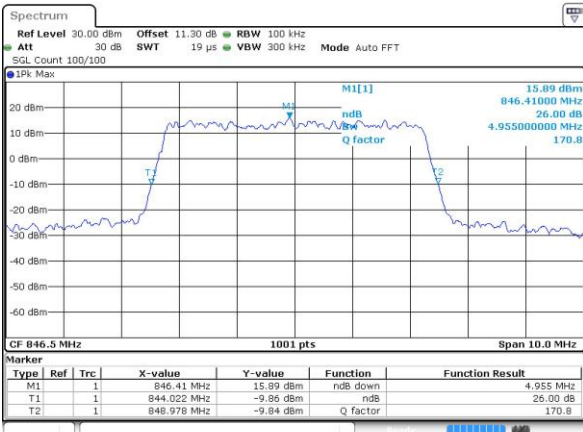
Date: 20 JUL 2018 04:50:51

Middle Channel / 5MHz / 16QAM



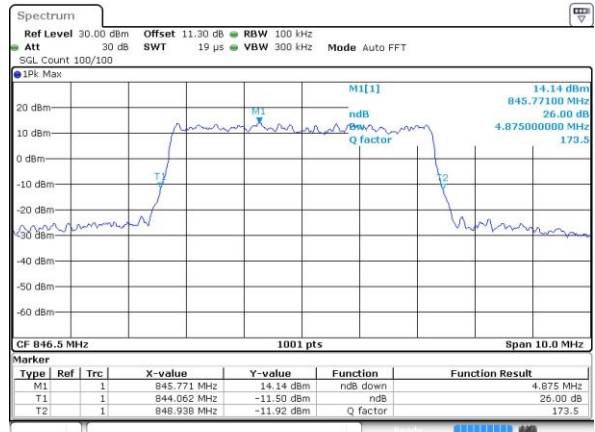
Date: 20 JUL 2018 04:51:01

Highest Channel / 5MHz / QPSK



Date: 20 JUL 2018 04:53:19

Highest Channel / 5MHz / 16QAM

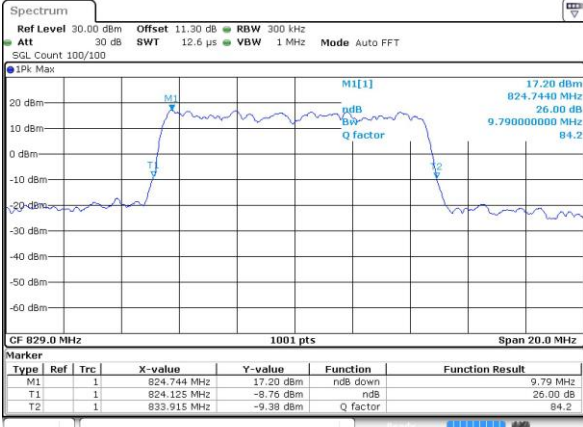


Date: 20 JUL 2018 04:53:29



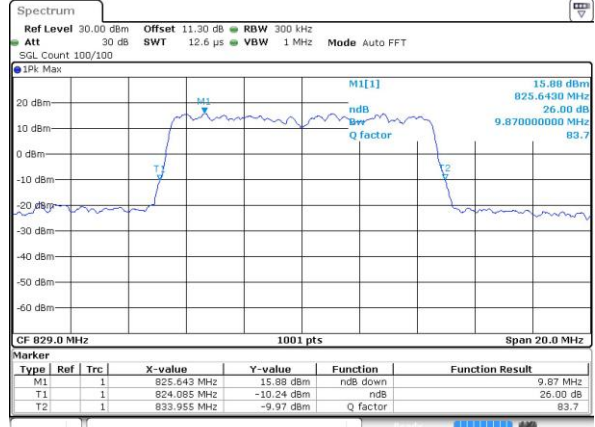
LTE Band 5

Lowest Channel / 10MHz / QPSK



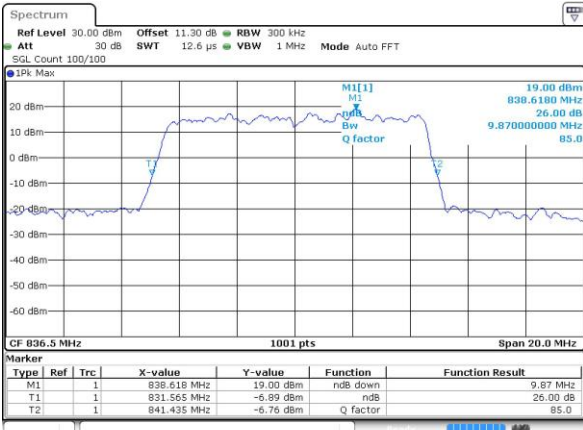
Date: 20 JUL 2018 05:02:17

Lowest Channel / 10MHz / 16QAM



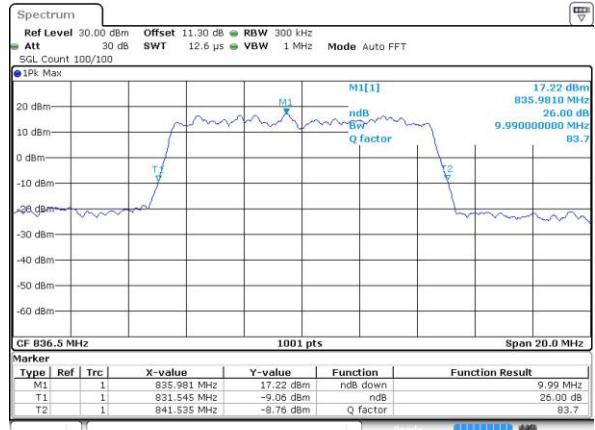
Date: 20 JUL 2018 05:02:27

Middle Channel / 10MHz / QPSK



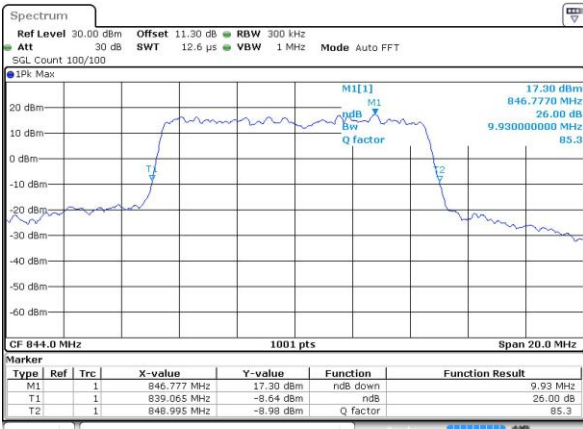
Date: 20 JUL 2018 05:11:16

Middle Channel / 10MHz / 16QAM



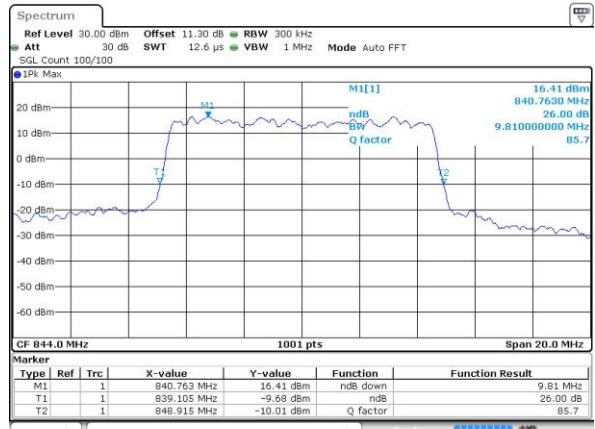
Date: 20 JUL 2018 05:11:27

Highest Channel / 10MHz / QPSK



Date: 20 JUL 2018 05:13:45

Highest Channel / 10MHz / 16QAM



Date: 20 JUL 2018 05:13:55



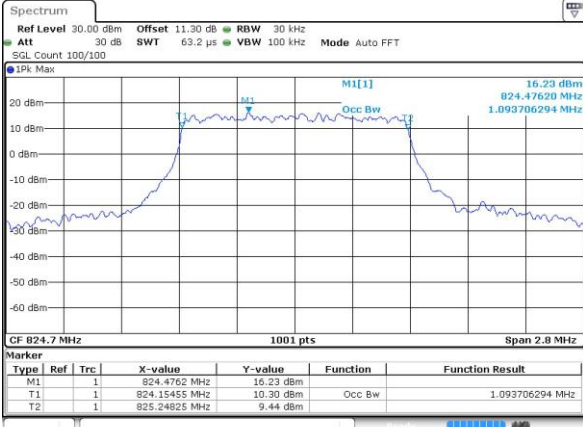
**Occupied Bandwidth**

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
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.73	2.71	4.5	4.47	9.11	9.01	-	-	-	-
Middle CH	1.09	1.1	2.72	2.72	4.51	4.49	9.07	9.05	-	-	-	-
Highest CH	1.09	1.1	2.73	2.73	4.5	4.5	9.03	9.05	-	-	-	-



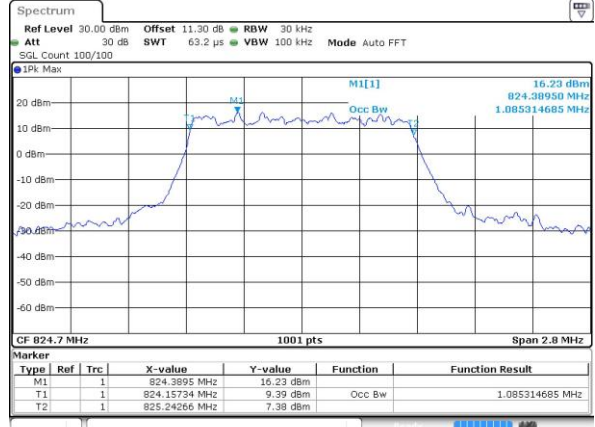
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



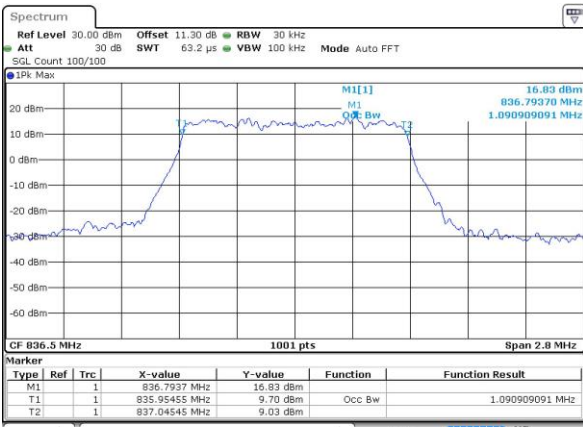
Date: 20 JUL 2018 05:22:24

Lowest Channel / 1.4MHz / 16QAM



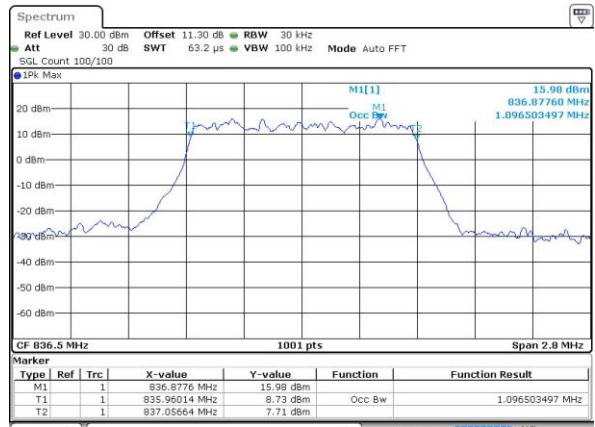
Date: 20 JUL 2018 05:22:34

Middle Channel / 1.4MHz / QPSK



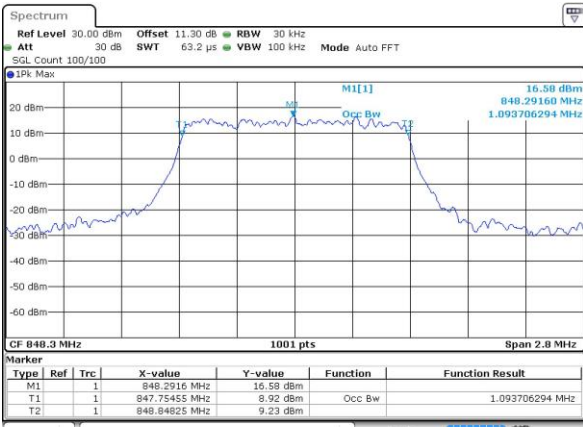
Date: 20 JUL 2018 05:31:23

Middle Channel / 1.4MHz / 16QAM



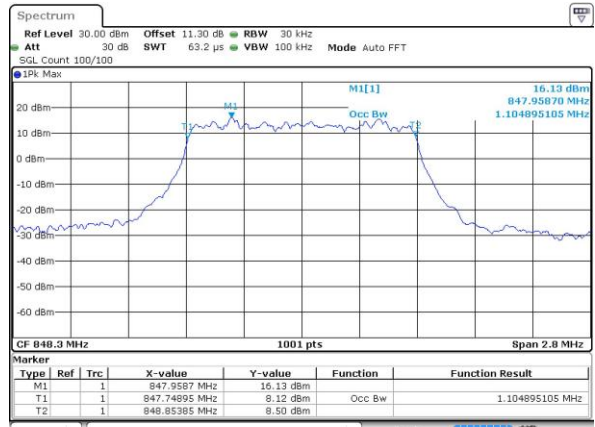
Date: 20 JUL 2018 05:31:33

Highest Channel / 1.4MHz / QPSK



Date: 20 JUL 2018 05:33:51

Highest Channel / 1.4MHz / 16QAM

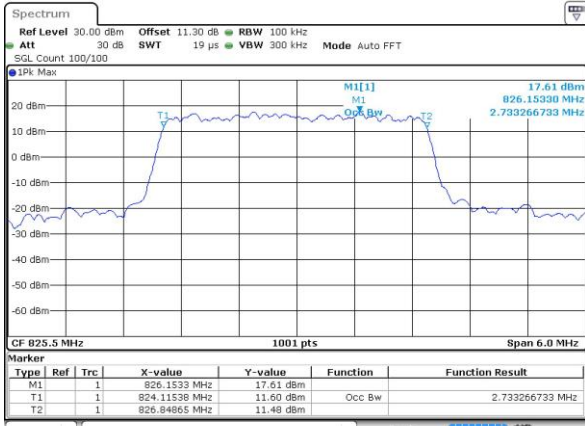


Date: 20 JUL 2018 05:34:01



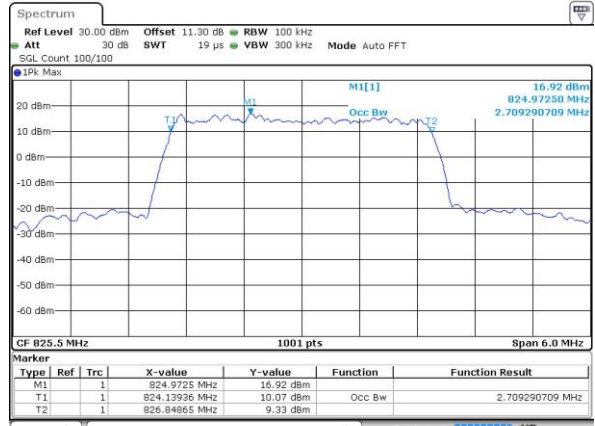
LTE Band 5

Lowest Channel / 3MHz / QPSK



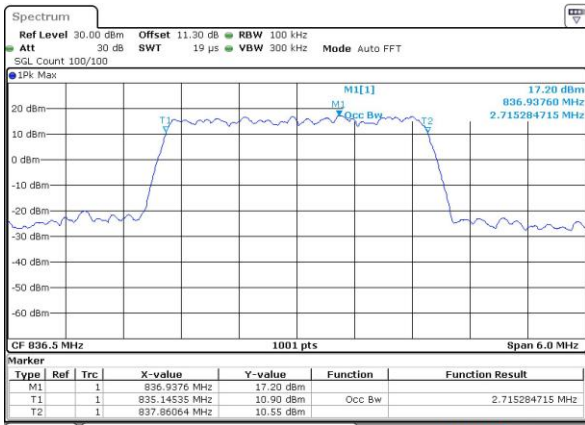
Date: 20 JUL 2018 04:06:53

Lowest Channel / 3MHz / 16QAM



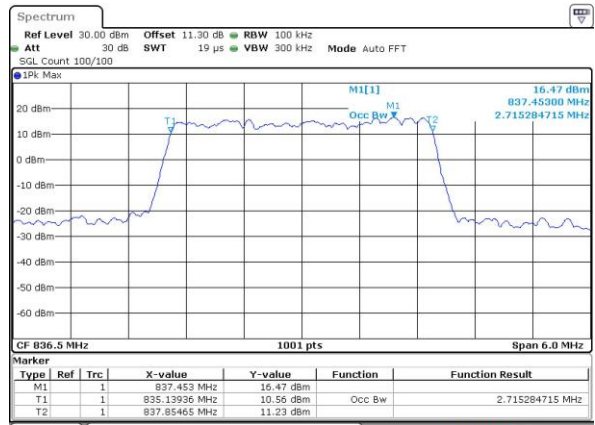
Date: 20 JUL 2018 04:07:03

Middle Channel / 3MHz / QPSK



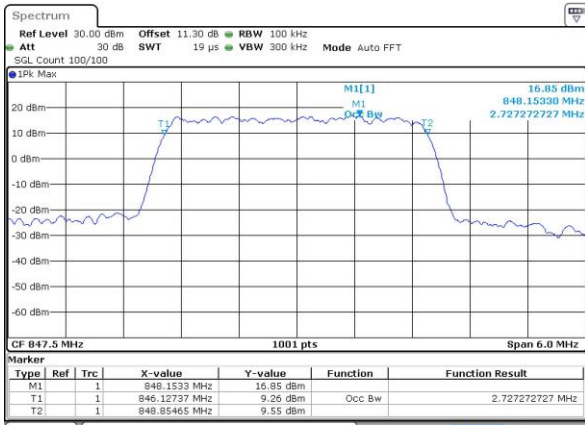
Date: 20 JUL 2018 04:16:22

Middle Channel / 3MHz / 16QAM



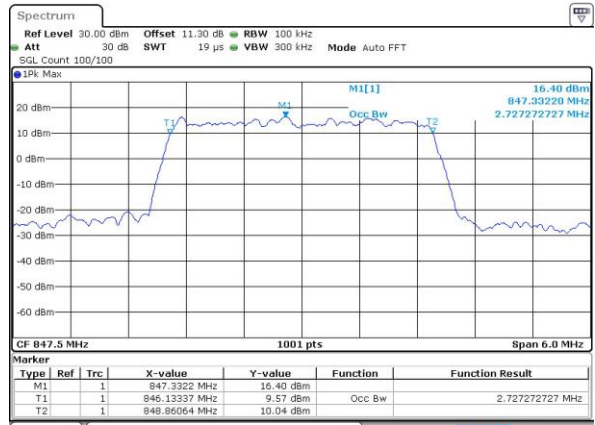
Date: 20 JUL 2018 04:16:32

Highest Channel / 3MHz / QPSK



Date: 20 JUL 2018 04:32:34

Highest Channel / 3MHz / 16QAM

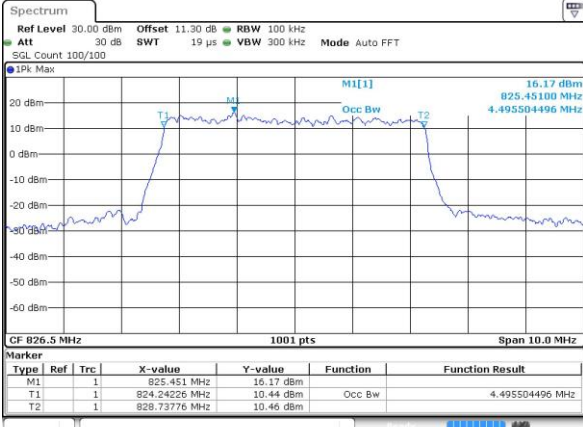


Date: 20 JUL 2018 04:32:44



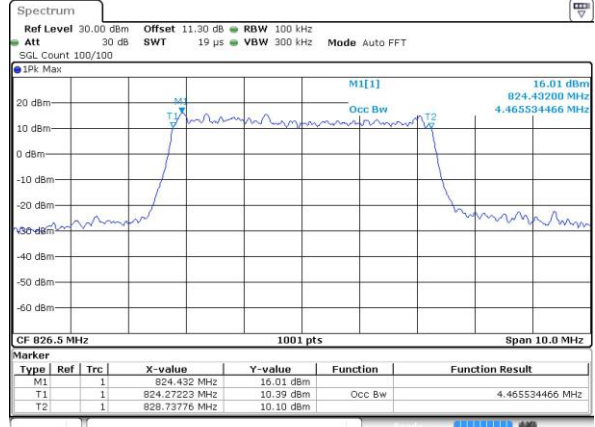
LTE Band 5

Lowest Channel / 5MHz / QPSK



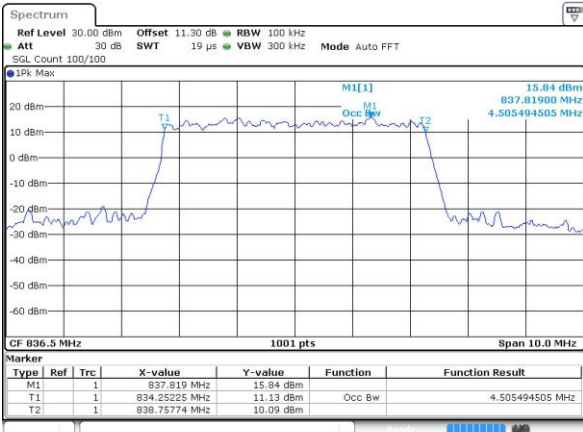
Date: 20 JUL 2018 04:41:32

Lowest Channel / 5MHz / 16QAM



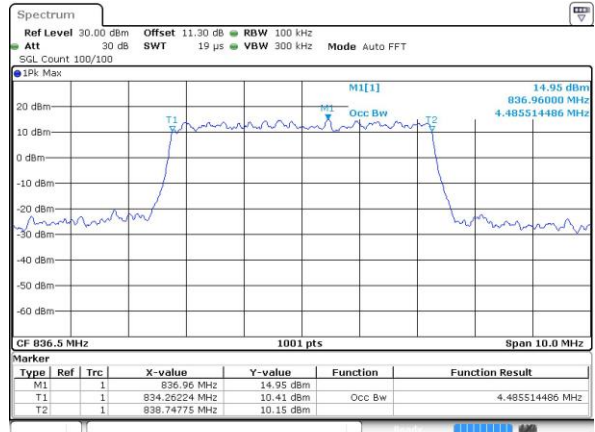
Date: 20 JUL 2018 04:41:43

Middle Channel / 5MHz / QPSK



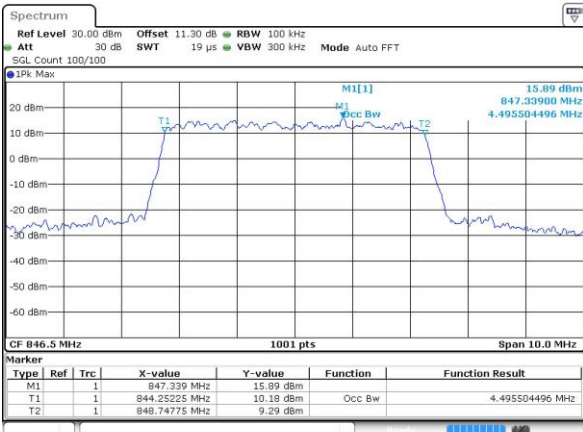
Date: 20 JUL 2018 04:50:31

Middle Channel / 5MHz / 16QAM



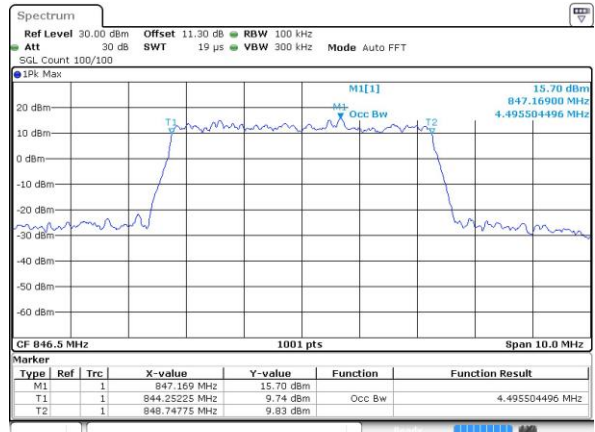
Date: 20 JUL 2018 04:50:41

Highest Channel / 5MHz / QPSK



Date: 20 JUL 2018 04:52:59

Highest Channel / 5MHz / 16QAM

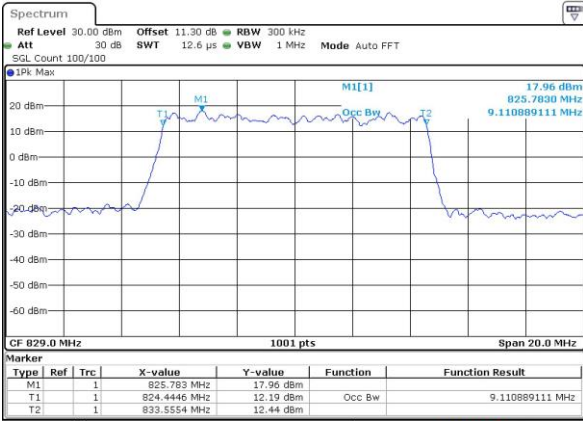


Date: 20 JUL 2018 04:53:09



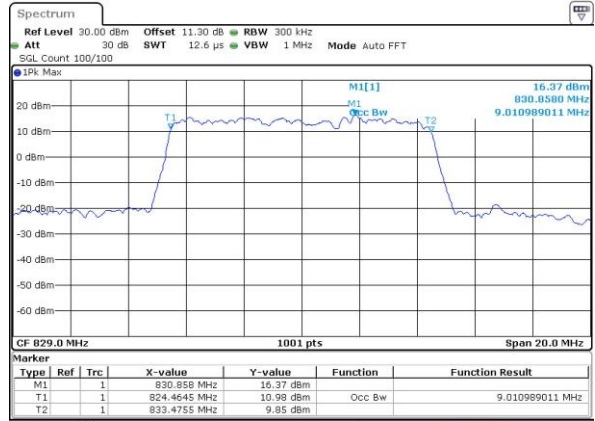
LTE Band 5

Lowest Channel / 10MHz / QPSK



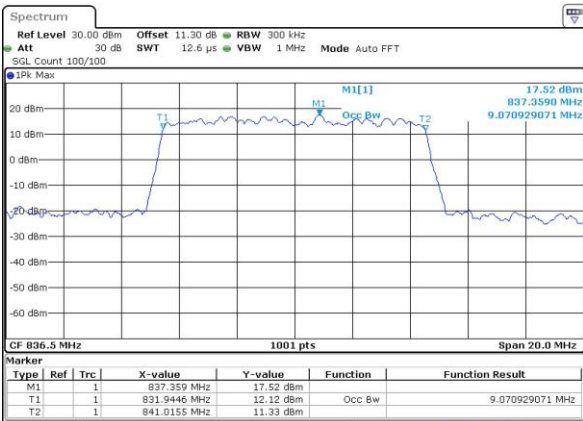
Date: 20 JUL 2018 05:01:57

Lowest Channel / 10MHz / 16QAM



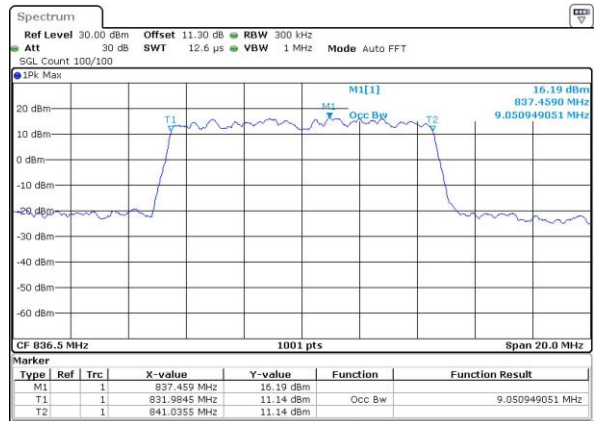
Date: 20 JUL 2018 05:02:07

Middle Channel / 10MHz / QPSK



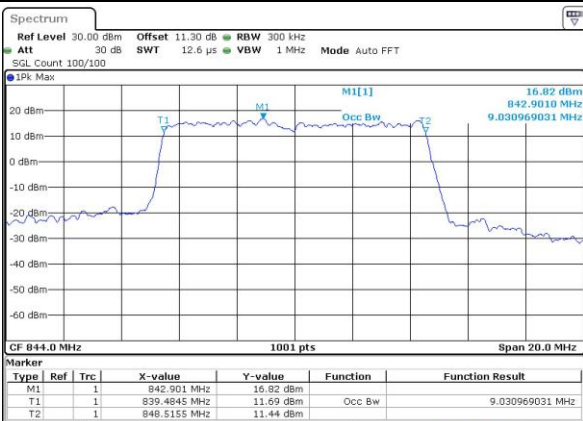
Date: 20 JUL 2018 05:10:56

Middle Channel / 10MHz / 16QAM



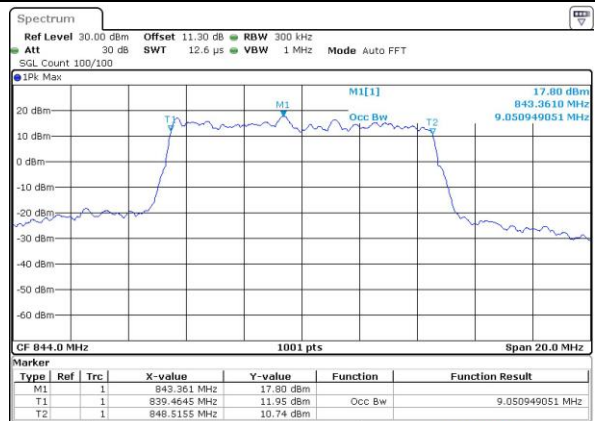
Date: 20 JUL 2018 05:11:06

Highest Channel / 10MHz / QPSK



Date: 20 JUL 2018 05:13:25

Highest Channel / 10MHz / 16QAM



Date: 20 JUL 2018 05:13:35





**Conducted Band Edge**



LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



Date: 20 JUL 2018 05:24:32

Highest Band Edge / 1RB



Date: 20 JUL 2018 05:39:15

Lowest Band Edge / Full RB



Date: 20 JUL 2018 05:27:47

Highest Band Edge / Full RB

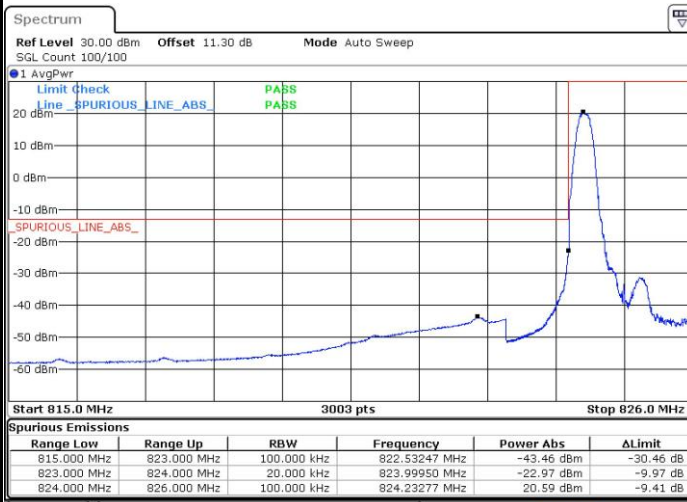


Date: 20 JUL 2018 05:36:00



LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



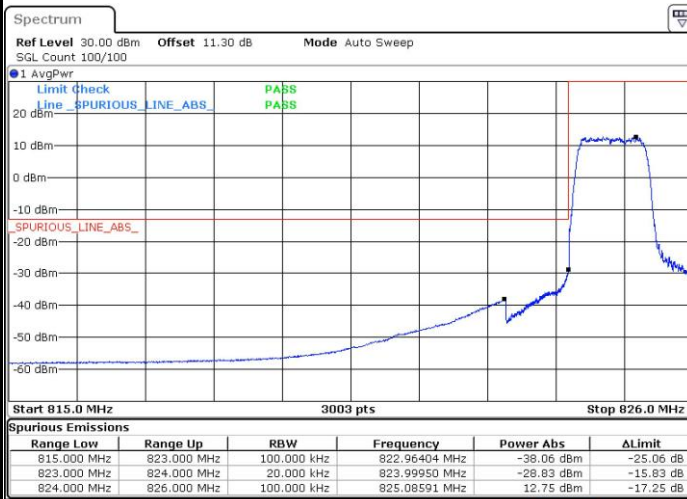
Date: 20 JUL 2018 05:26:10

Highest Band Edge / 1 RB



Date: 20 JUL 2018 05:40:52

Lowest Band Edge / Full RB



Date: 20 JUL 2018 05:29:25

Highest Band Edge / Full RB

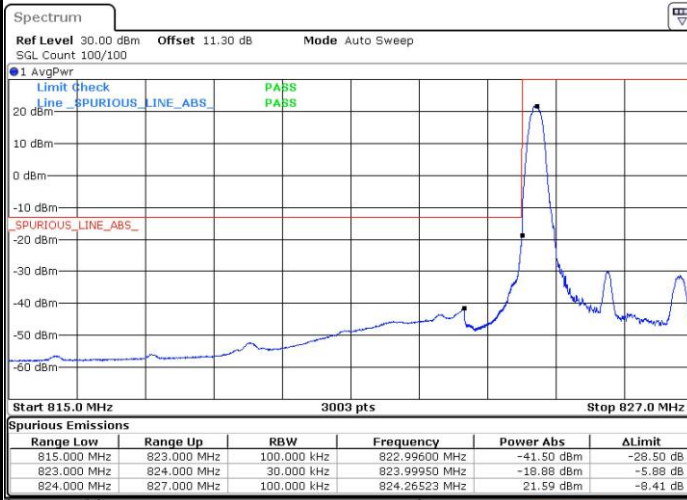


Date: 20 JUL 2018 05:37:37



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



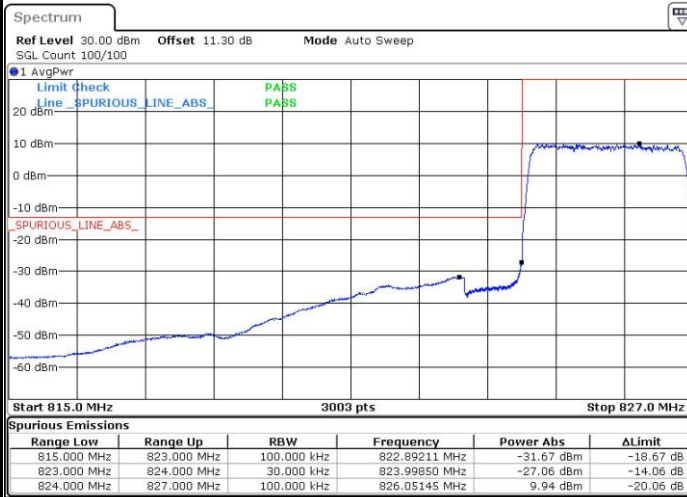
Date: 20 JUL 2018 04:09:05

Highest Band Edge / 1 RB



Date: 20 JUL 2018 04:34:42

Lowest Band Edge / Full RB



Date: 20 JUL 2018 04:12:29

Highest Band Edge / Full RB

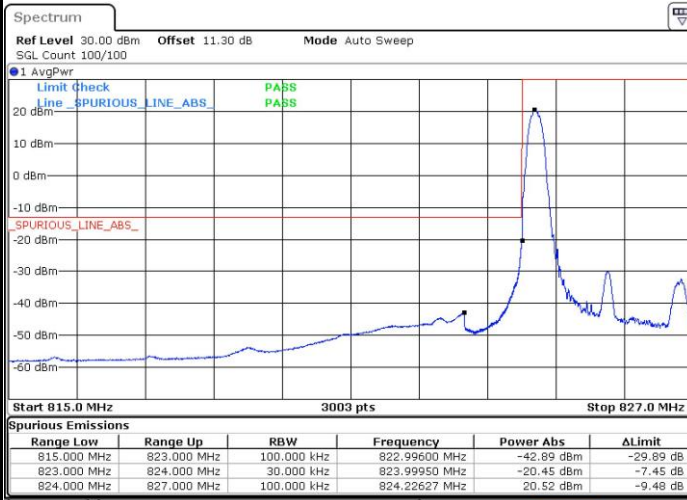


Date: 20 JUL 2018 04:37:57



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 20 JUL 2018 04:10:47

Highest Band Edge / 1 RB



Date: 20 JUL 2018 04:36:20

Lowest Band Edge / Full RB



Date: 20 JUL 2018 04:14:10

Highest Band Edge / Full RB

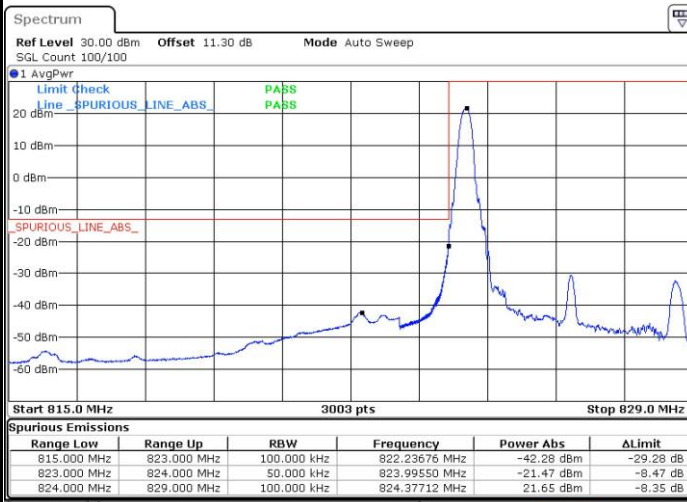


Date: 20 JUL 2018 04:39:35



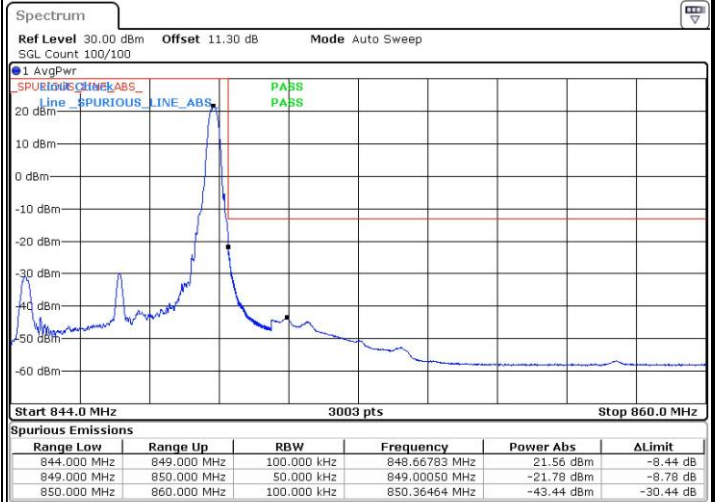
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



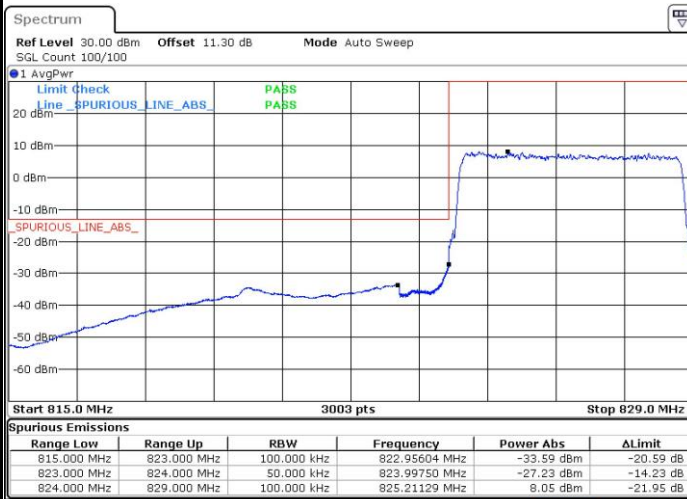
Date: 20 JUL 2018 04:43:41

Highest Band Edge / 1 RB



Date: 20 JUL 2018 04:55:07

Lowest Band Edge / Full RB



Date: 20 JUL 2018 04:46:56

Highest Band Edge / Full RB



Date: 20 JUL 2018 04:58:21