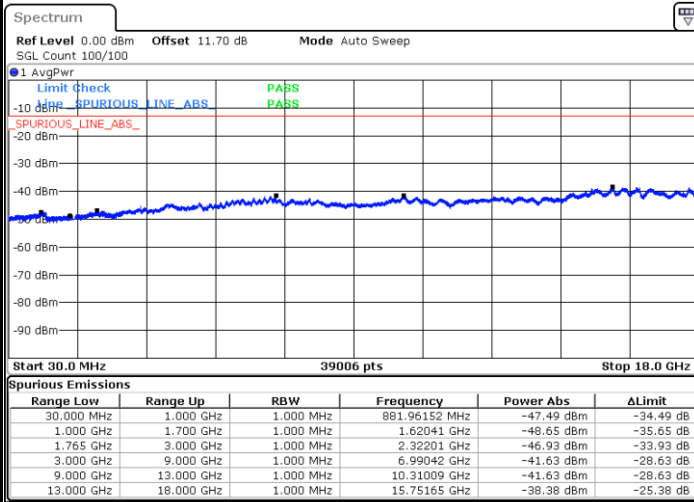




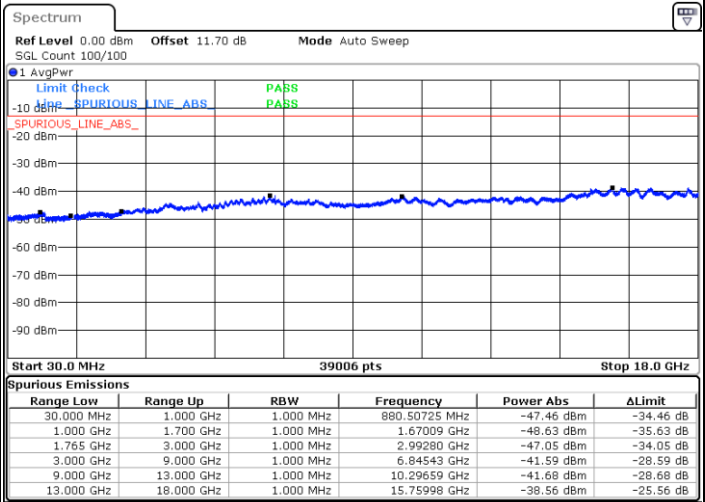
LTE Band 4 / 10MHz

Middle Channel / QPSK



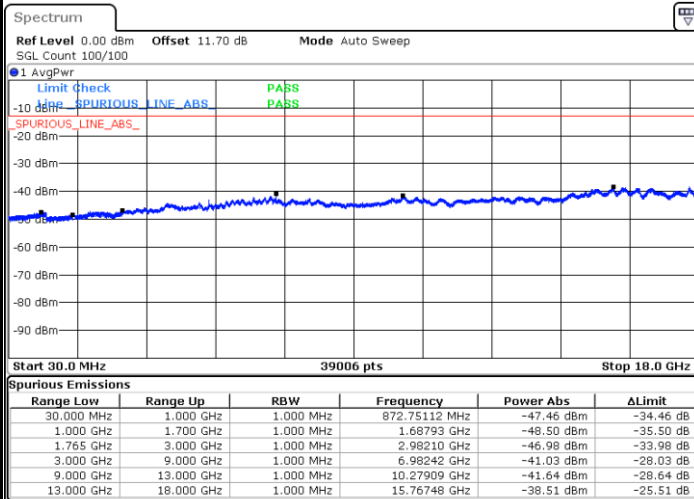
Date: 19.SEP.2017 09:37:15

Middle Channel / 16QAM



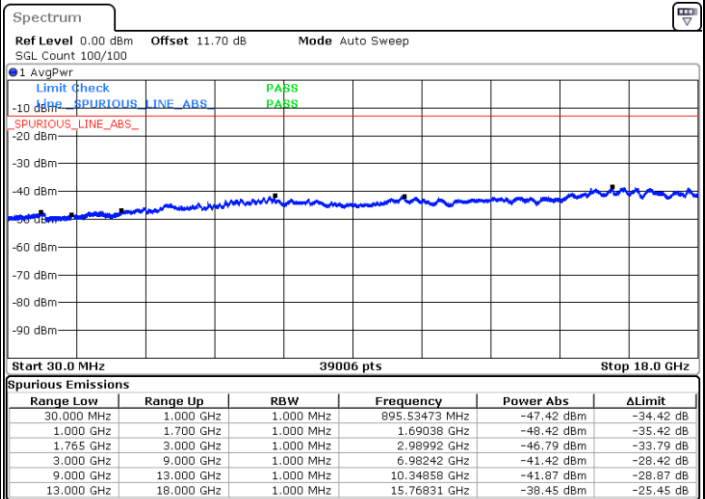
Date: 19.SEP.2017 09:38:09

Highest Channel / QPSK



Date: 19.SEP.2017 09:44:18

Highest Channel / 16QAM

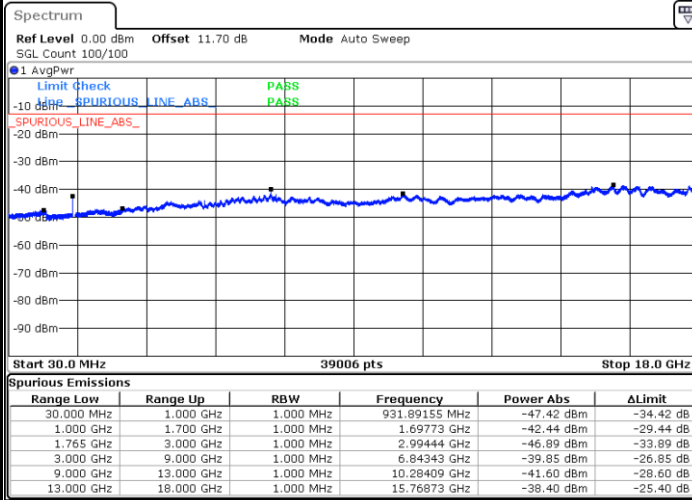


Date: 19.SEP.2017 09:45:12



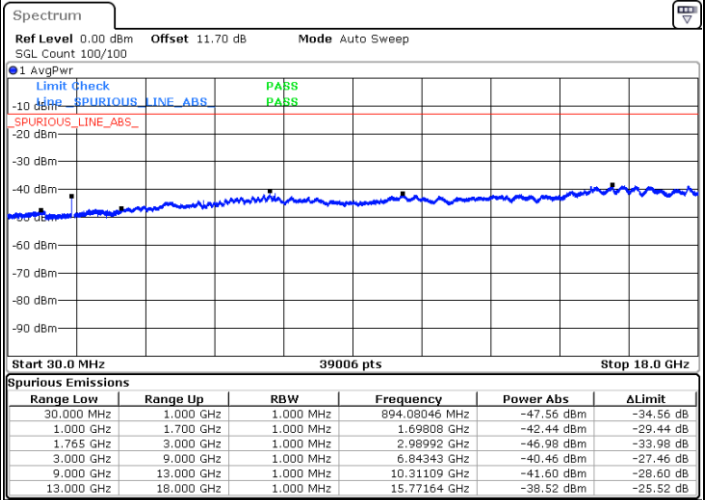
LTE Band 4 / 15MHz

Lowest Channel / QPSK



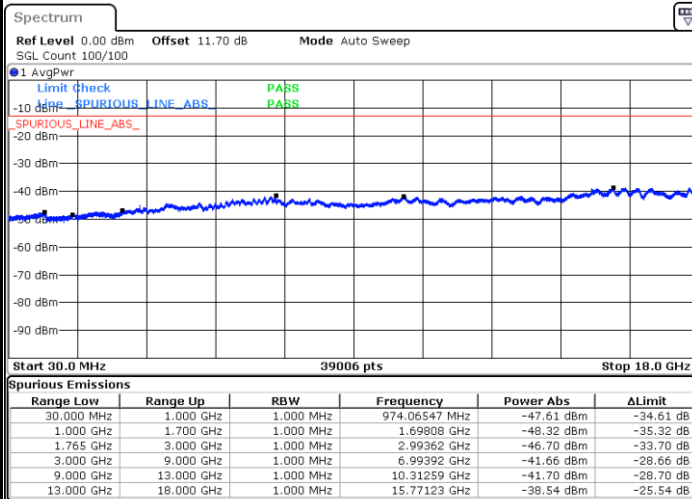
Date: 19.SEP.2017 09:51:21

Lowest Channel / 16QAM



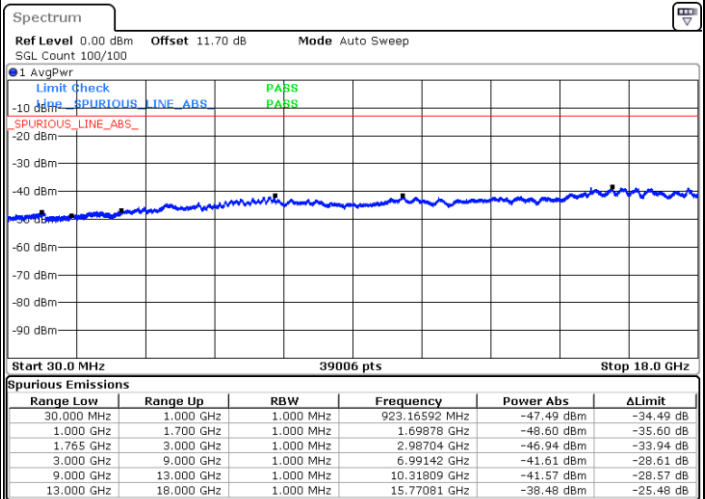
Date: 19.SEP.2017 09:52:15

Middle Channel / QPSK



Date: 19.SEP.2017 09:53:49

Middle Channel / 16QAM

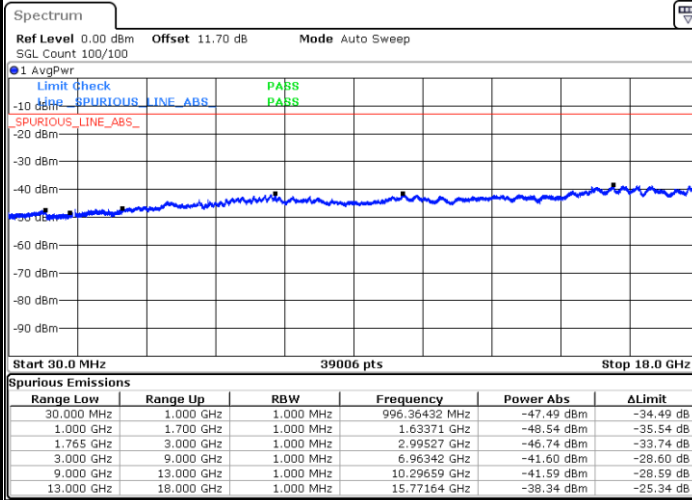


Date: 19.SEP.2017 09:54:43



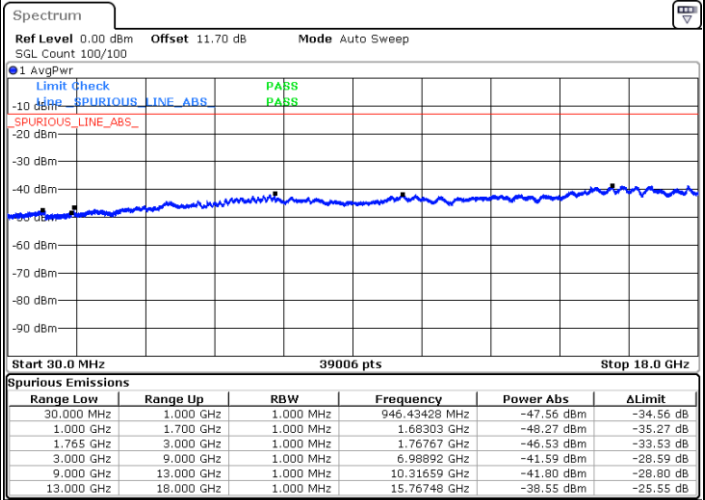
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 19.SEP.2017 10:00:52

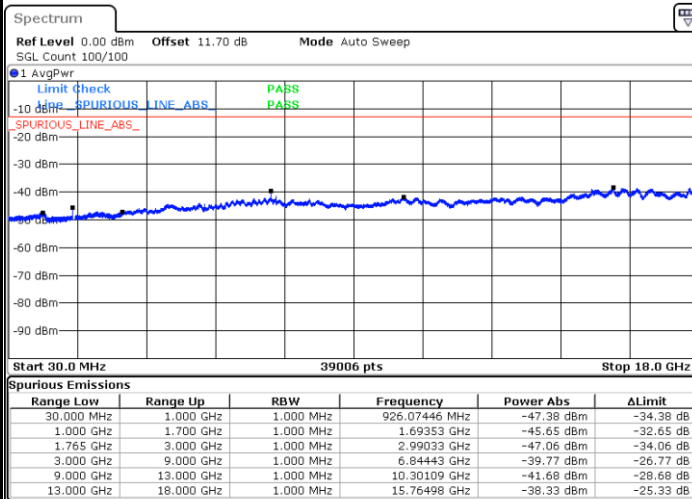
Highest Channel / 16QAM



Date: 19.SEP.2017 10:01:46

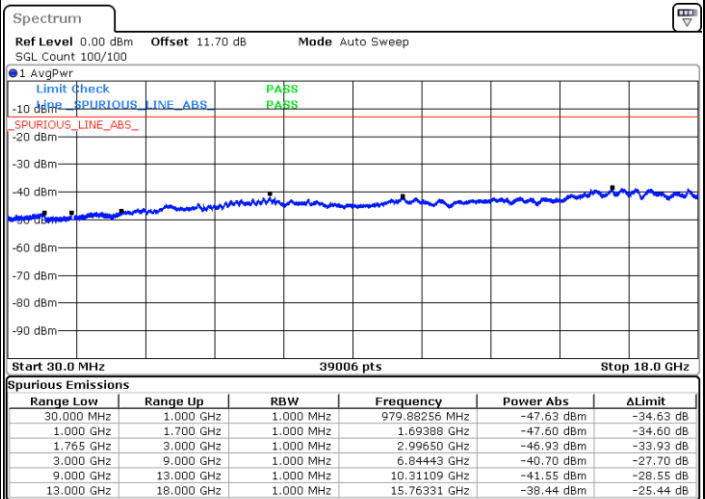
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 19.SEP.2017 10:07:54

Lowest Channel / 16QAM

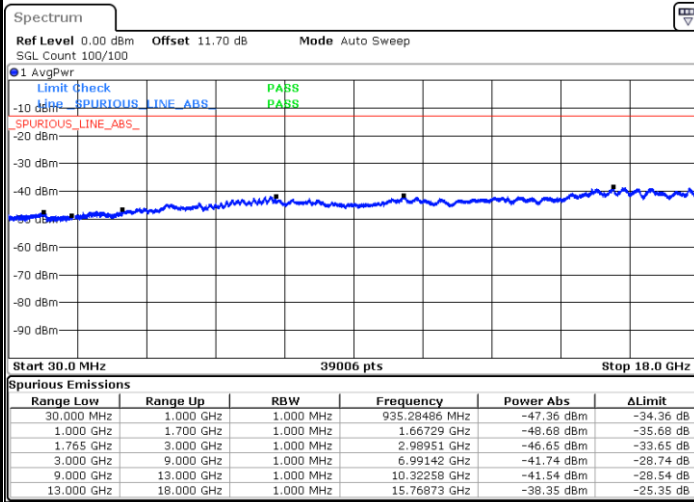


Date: 19.SEP.2017 10:08:48



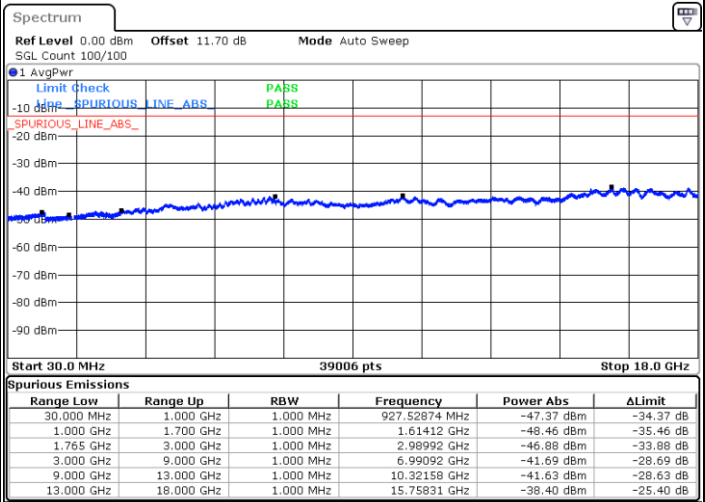
LTE Band 4 / 20MHz

Middle Channel / QPSK



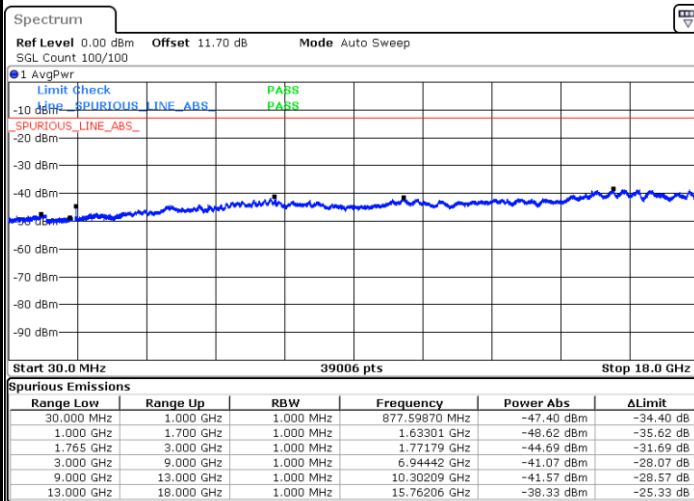
Date: 19.SEP.2017 10:10:22

Middle Channel / 16QAM



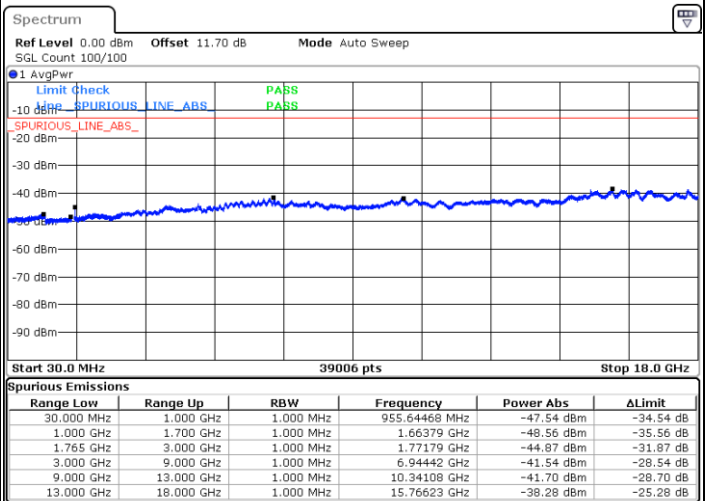
Date: 19.SEP.2017 10:11:16

Highest Channel / QPSK



Date: 19.SEP.2017 10:17:25

Highest Channel / 16QAM



Date: 19.SEP.2017 10:18:19

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	0.0008	PASS
40	Normal Voltage	0.0085	
30	Normal Voltage	0.0078	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0085	
0	Normal Voltage	0.0091	
-10	Normal Voltage	0.0085	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

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

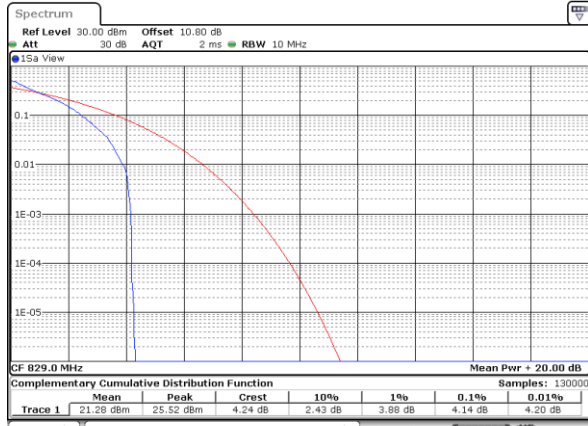
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.14	4.84	4.93	5.86	PASS
Middle CH	3.91	4.78	4.84	5.74	
Highest CH	4.12	4.96	5.1	5.91	

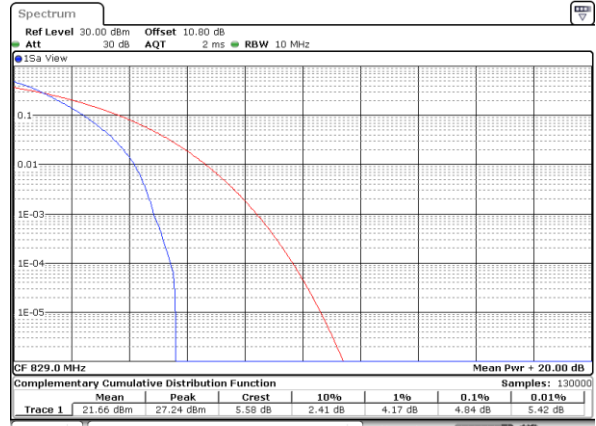


LTE Band 5 / 10MHz / QPSK

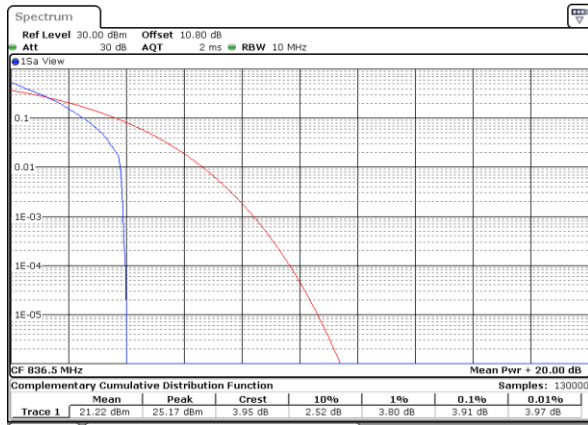
Lowest Channel / 1RB



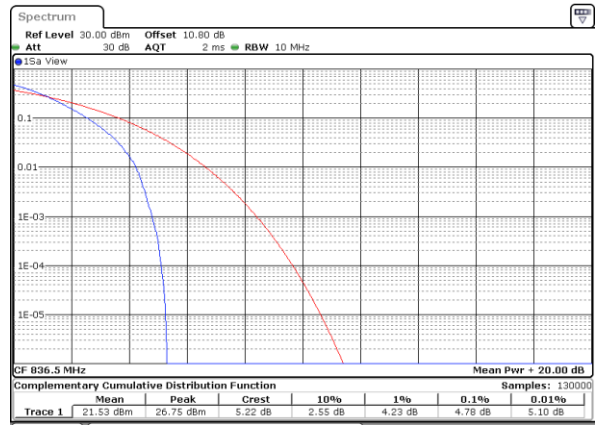
Lowest Channel / Full RB



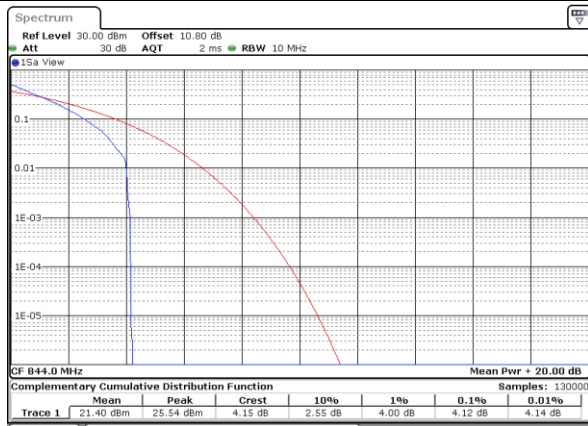
Middle Channel / 1RB



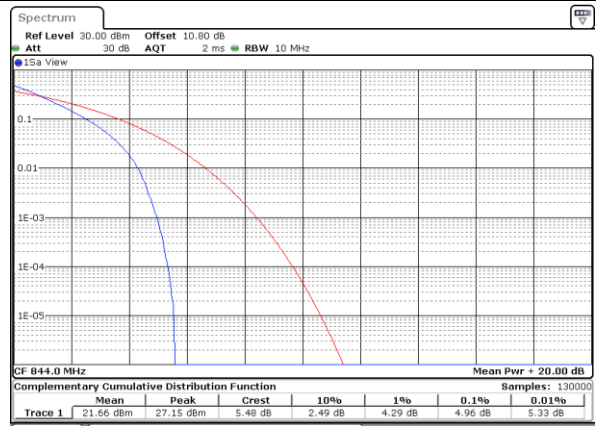
Middle Channel / Full RB

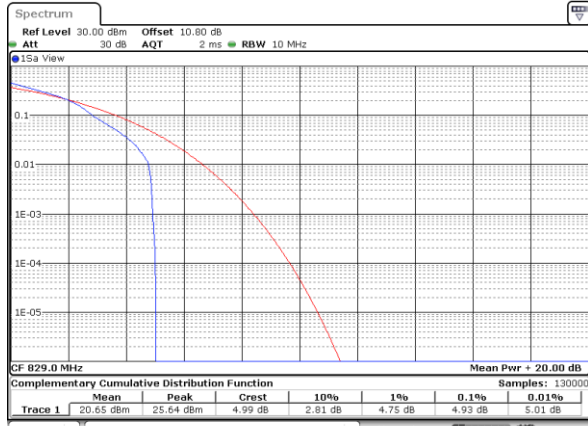


Highest Channel / 1RB

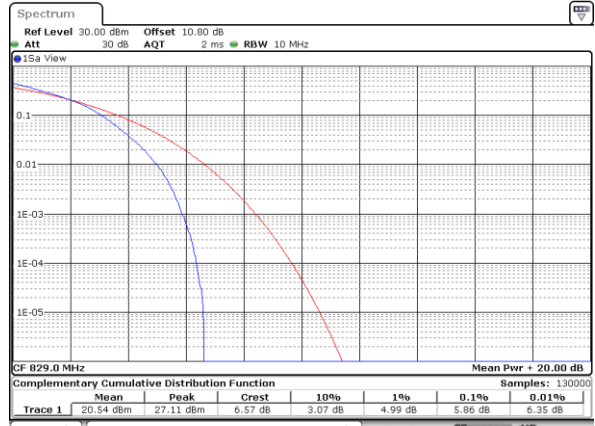


Highest Channel / Full RB

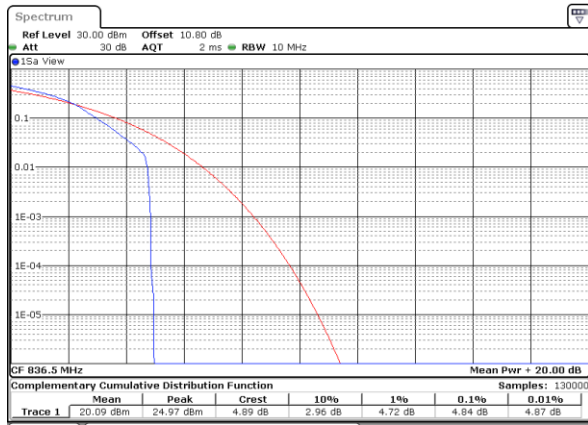


LTE Band 5 / 10MHz / 16QAM
Lowest Channel / 1RB


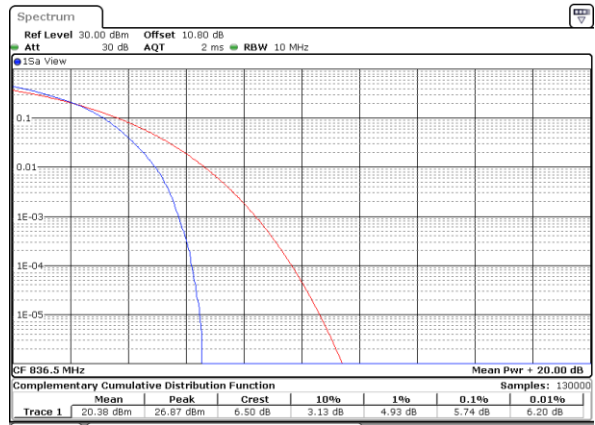
Date: 19 SEP 2017 15:15:36

Lowest Channel / Full RB


Date: 19 SEP 2017 15:15:48

Middle Channel / 1RB


Date: 19 SEP 2017 15:16:16

Middle Channel / Full RB


Date: 19 SEP 2017 15:16:25

Highest Channel / 1RB


Date: 19 SEP 2017 15:16:53

Highest Channel / Full RB


Date: 19 SEP 2017 15:17:22



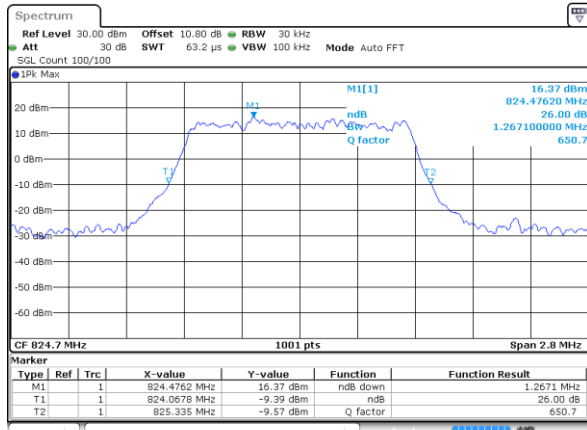
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.27	1.26	3.00	3.02	4.91	4.92	9.85	9.71	-	-	-	-
Middle CH	1.26	1.28	3.01	3.04	4.95	4.91	9.83	9.77	-	-	-	-
Highest CH	1.27	1.28	3.04	3.02	5.00	4.93	9.99	9.71	-	-	-	-



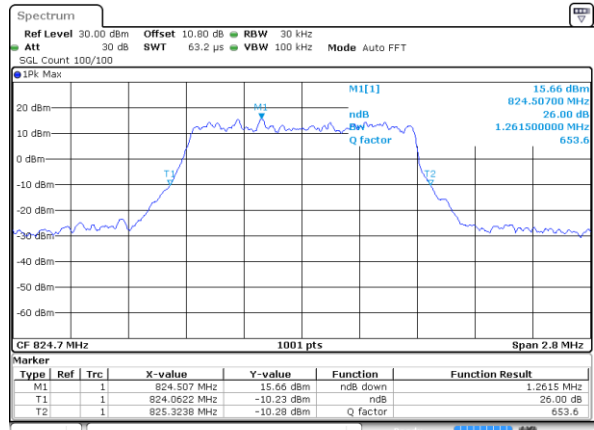
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



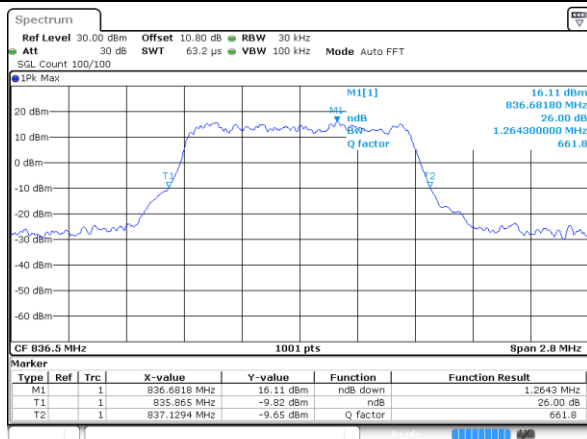
Date: 19 SEP 2017 13:45:59

Lowest Channel / 1.4MHz / 16QAM



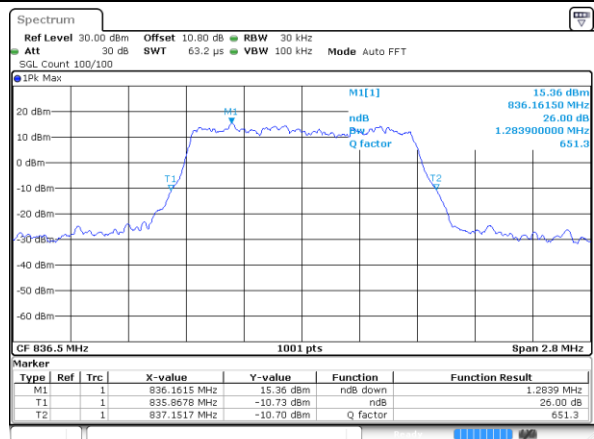
Date: 19 SEP 2017 13:45:49

Middle Channel / 1.4MHz / QPSK



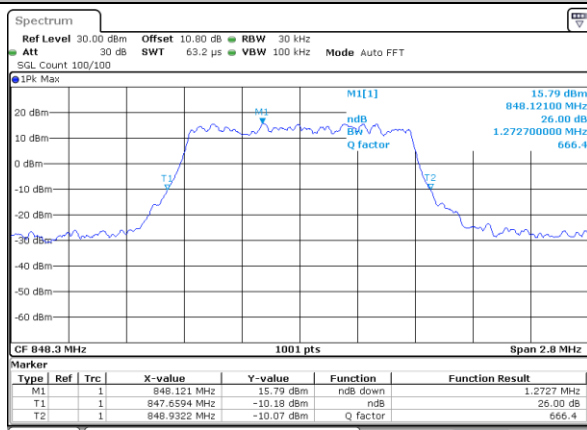
Date: 19 SEP 2017 13:54:52

Middle Channel / 1.4MHz / 16QAM



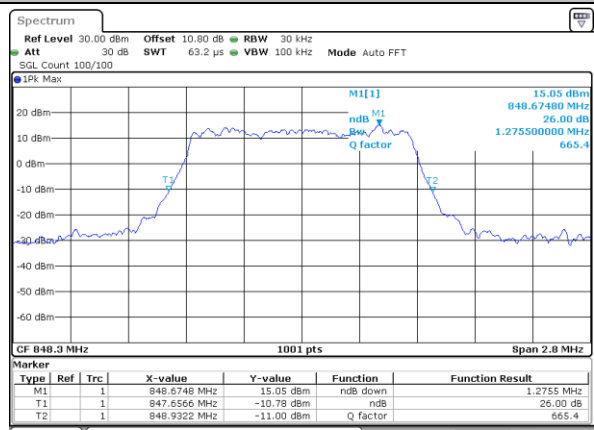
Date: 19 SEP 2017 13:55:02

Highest Channel / 1.4MHz / QPSK



Date: 19 SEP 2017 13:57:19

Highest Channel / 1.4MHz / 16QAM

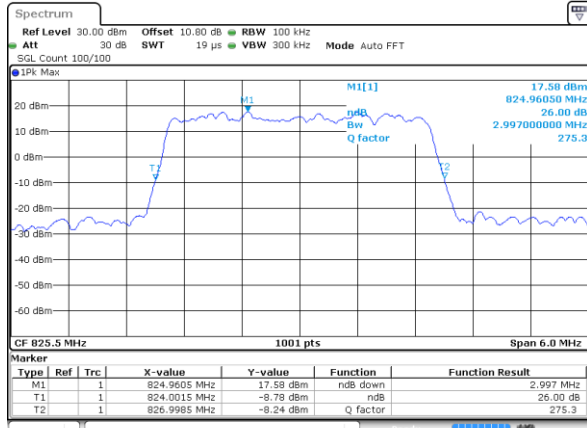


Date: 19 SEP 2017 13:57:29

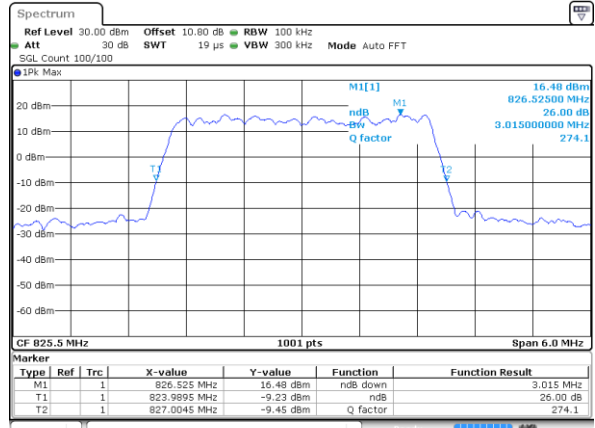


LTE Band 5

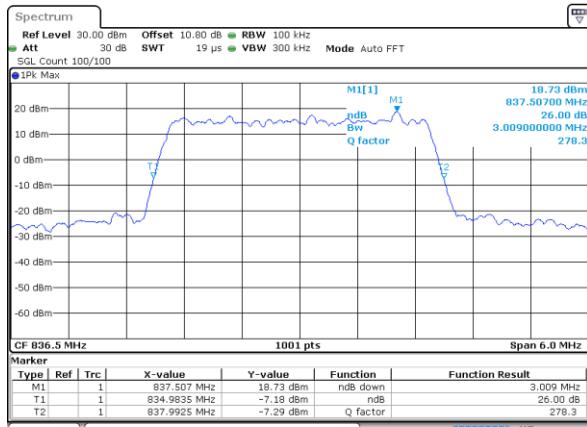
Lowest Channel / 3MHz / QPSK



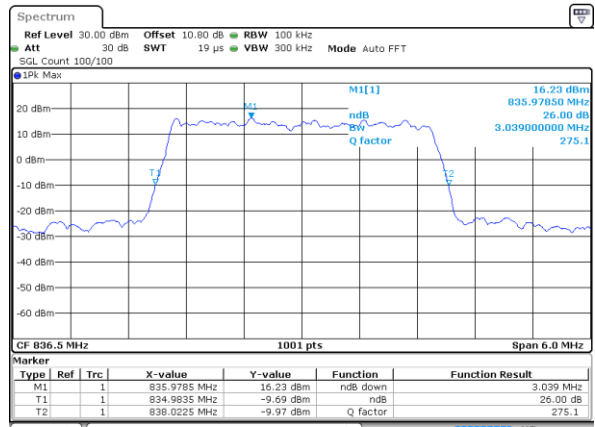
Lowest Channel / 3MHz / 16QAM



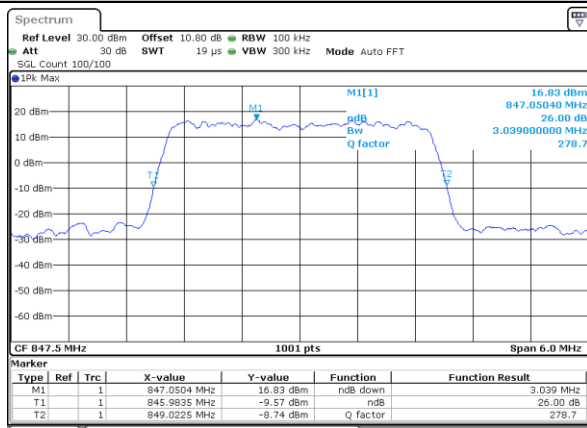
Middle Channel / 3MHz / QPSK



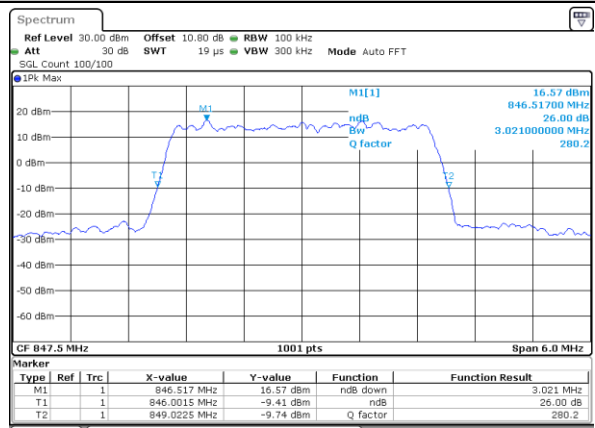
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



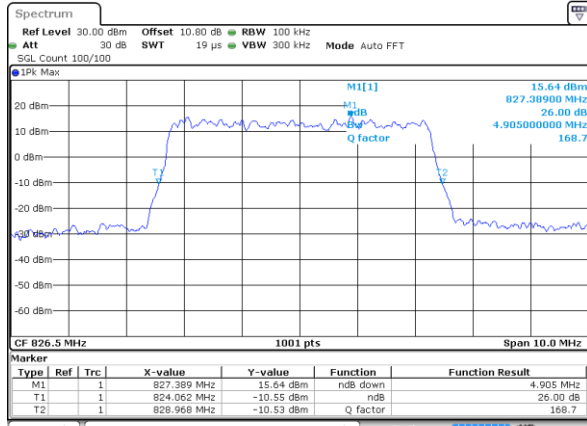
Highest Channel / 3MHz / 16QAM





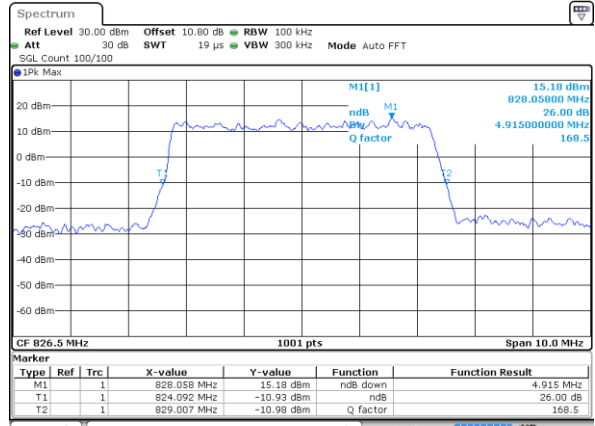
LTE Band 5

Lowest Channel / 5MHz / QPSK



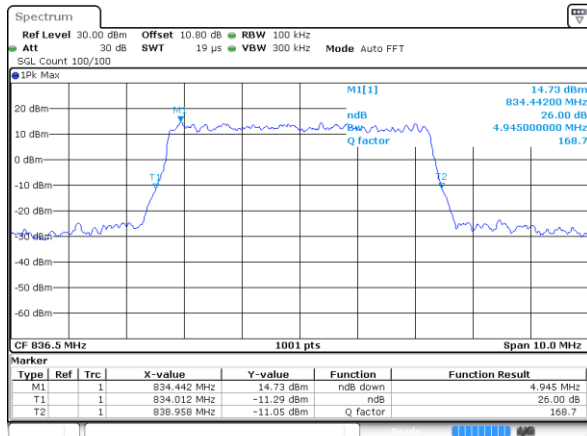
Date: 19 SEP 2017 14:26:54

Lowest Channel / 5MHz / 16QAM



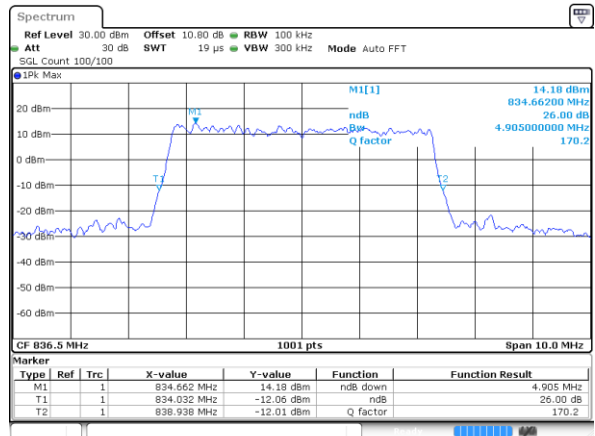
Date: 19 SEP 2017 14:27:04

Middle Channel / 5MHz / QPSK



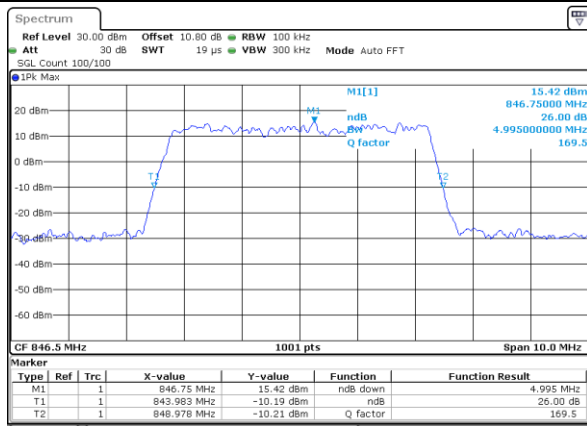
Date: 19 SEP 2017 14:35:57

Middle Channel / 5MHz / 16QAM



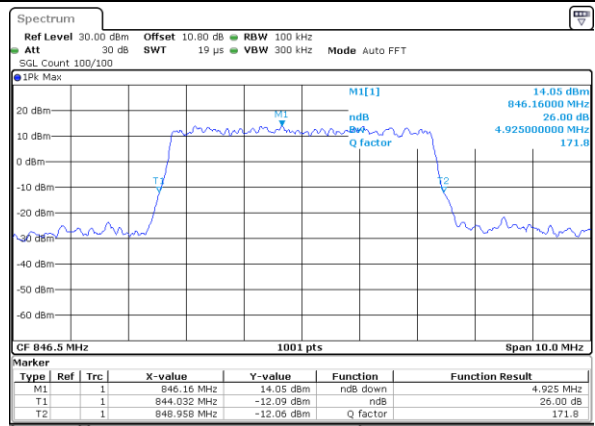
Date: 19 SEP 2017 14:36:07

Highest Channel / 5MHz / QPSK



Date: 19 SEP 2017 14:38:24

Highest Channel / 5MHz / 16QAM

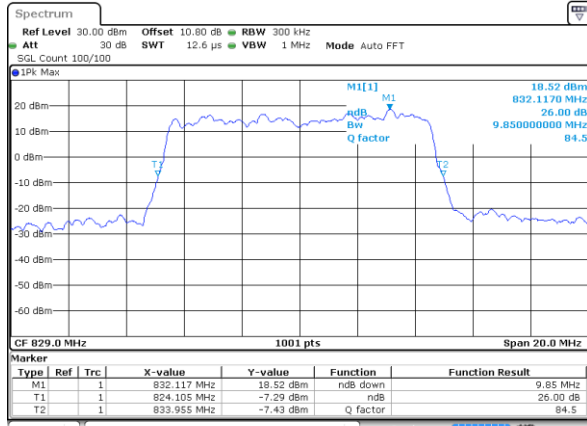


Date: 19 SEP 2017 14:38:34



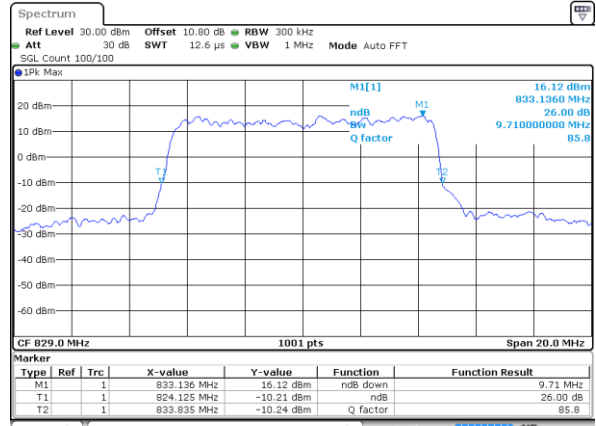
LTE Band 5

Lowest Channel / 10MHz / QPSK



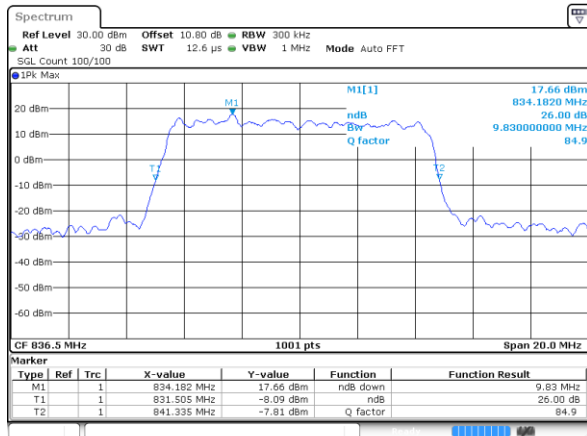
Date: 19 SEP 2017 14:47:27

Lowest Channel / 10MHz / 16QAM



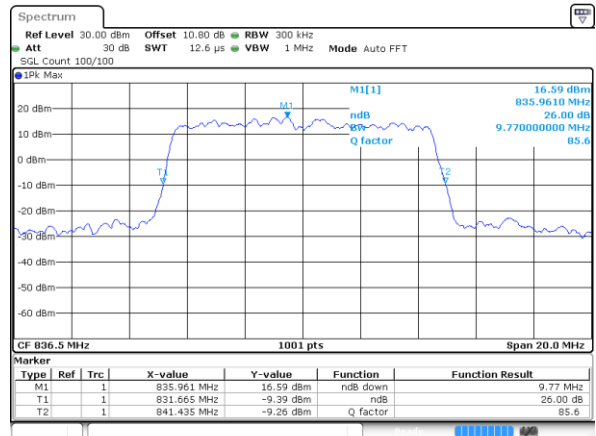
Date: 19 SEP 2017 14:47:37

Middle Channel / 10MHz / QPSK



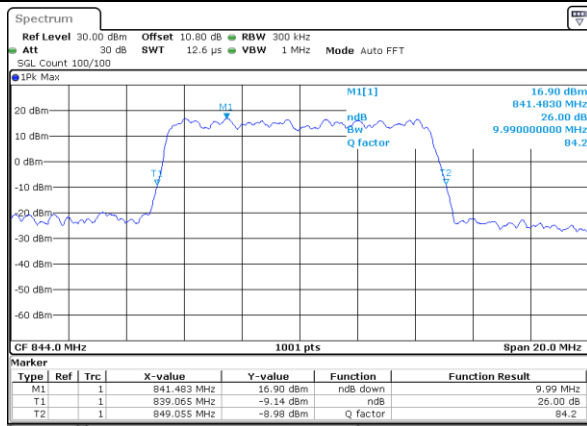
Date: 19 SEP 2017 14:56:29

Middle Channel / 10MHz / 16QAM



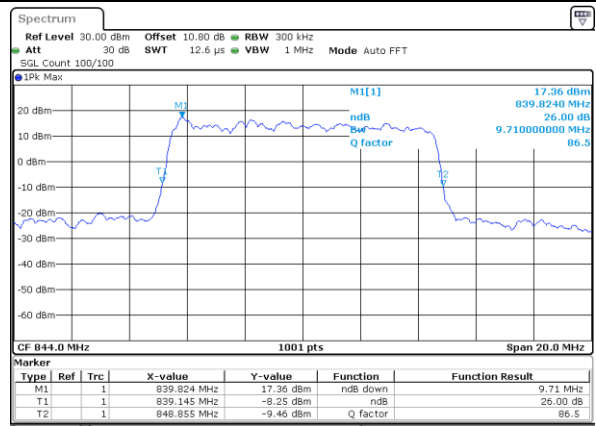
Date: 19 SEP 2017 14:56:39

Highest Channel / 10MHz / QPSK



Date: 19 SEP 2017 14:58:57

Highest Channel / 10MHz / 16QAM

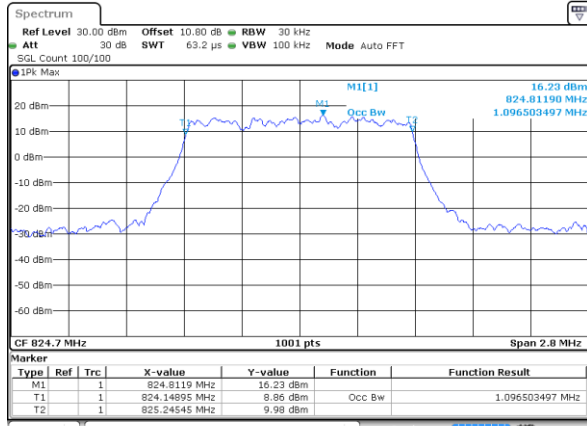
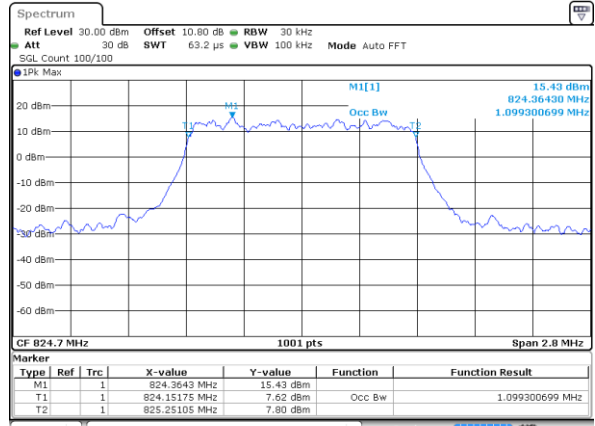
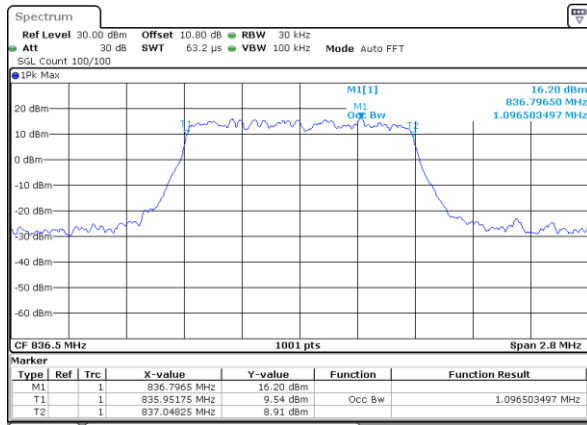
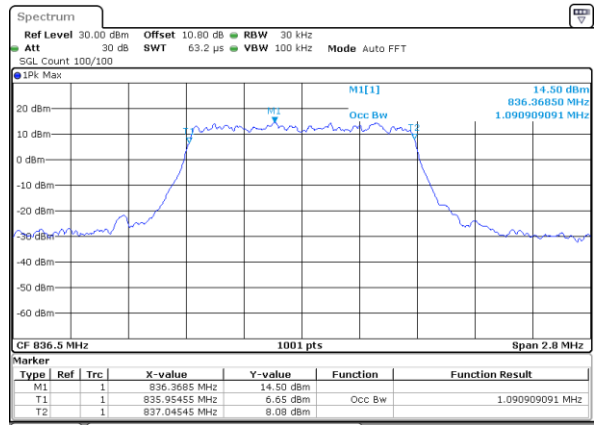
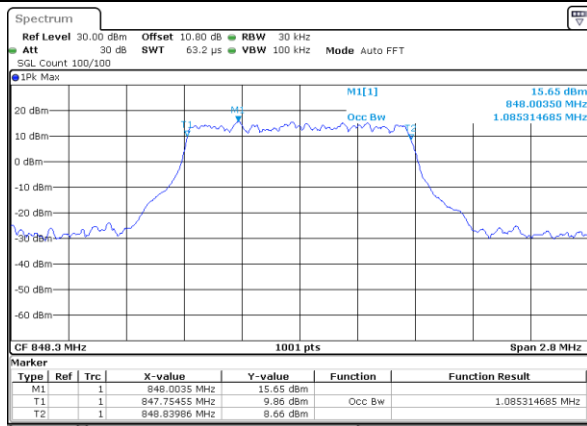
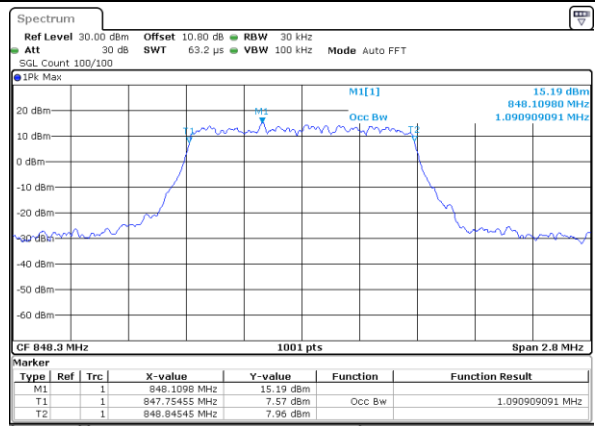


Date: 19 SEP 2017 14:59:07



Occupied Bandwidth

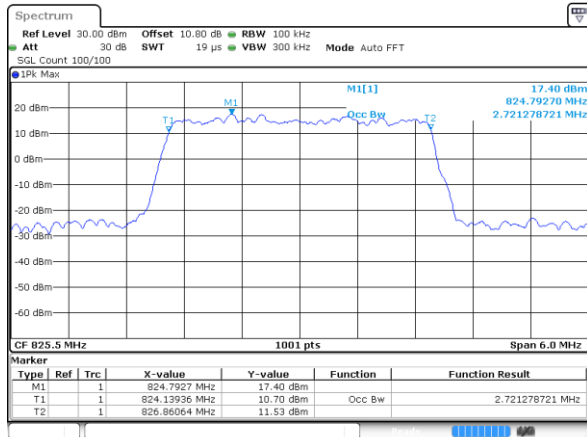
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.1	1.1	2.72	2.73	4.51	4.52	9.09	9.03	-	-	-	-
Middle CH	1.1	1.09	2.72	2.72	4.51	4.5	8.97	8.95	-	-	-	-
Highest CH	1.09	1.09	2.73	2.72	4.5	4.51	9.07	9.05	-	-	-	-

LTE Band 5
Lowest Channel / 1.4MHz / QPSK

Lowest Channel / 1.4MHz / 16QAM

Middle Channel / 1.4MHz / QPSK

Middle Channel / 1.4MHz / 16QAM

Highest Channel / 1.4MHz / QPSK

Highest Channel / 1.4MHz / 16QAM


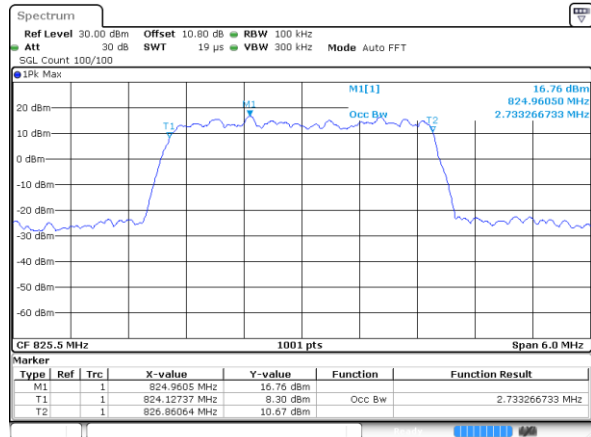


LTE Band 5

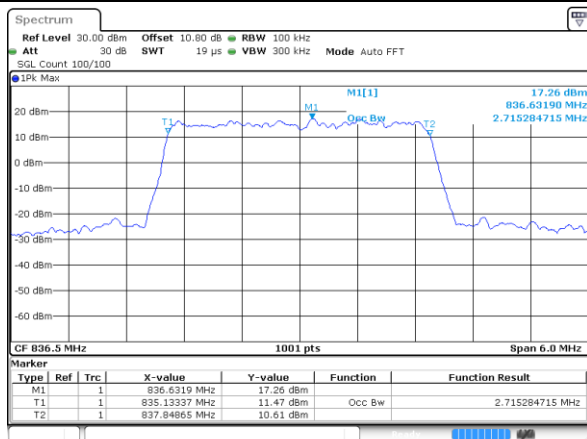
Lowest Channel / 3MHz / QPSK



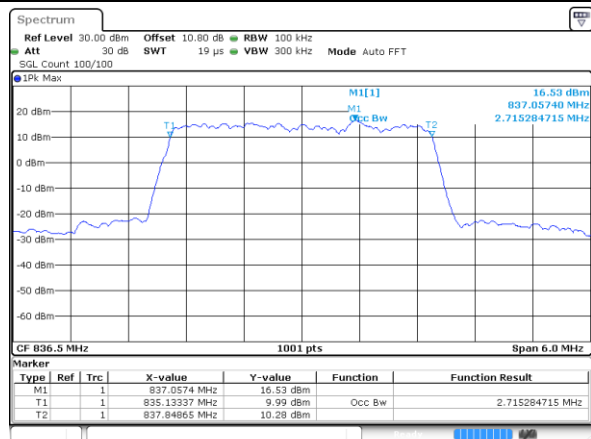
Lowest Channel / 3MHz / 16QAM



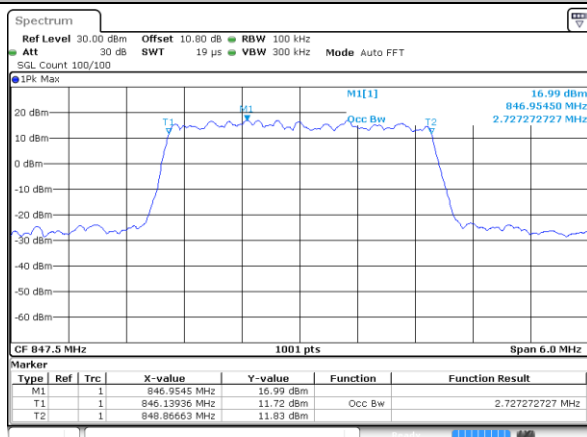
Middle Channel / 3MHz / QPSK



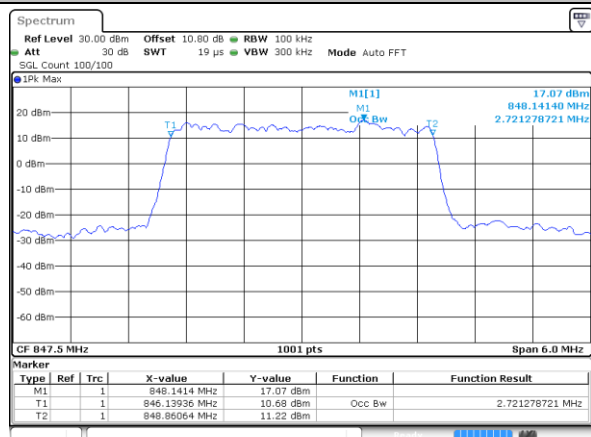
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



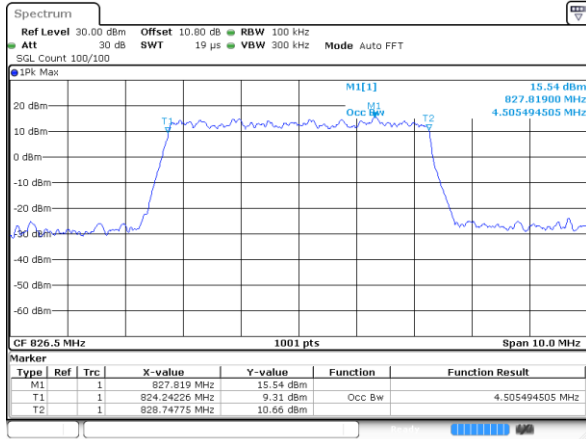
Highest Channel / 3MHz / 16QAM



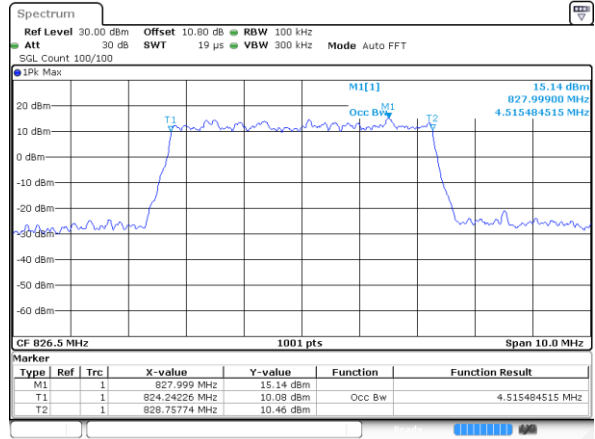


LTE Band 5

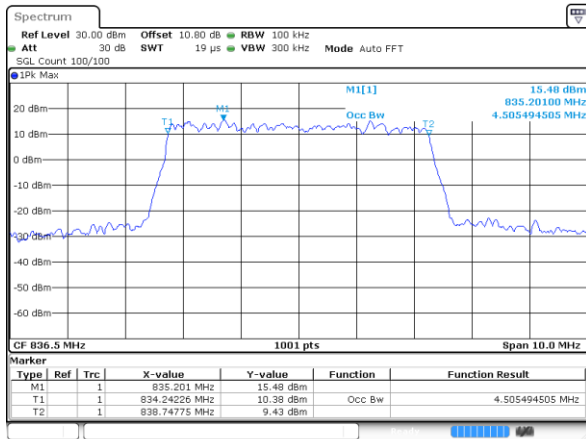
Lowest Channel / 5MHz / QPSK



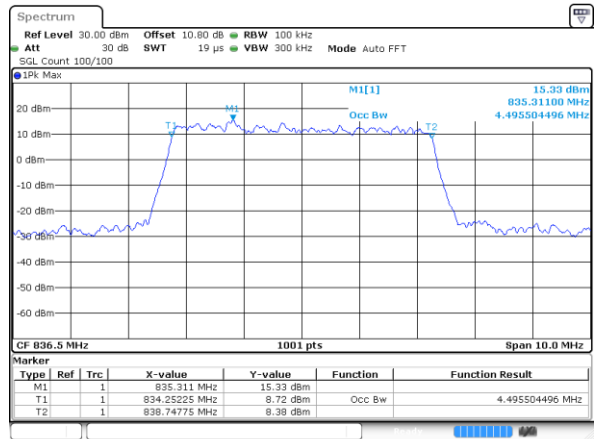
Lowest Channel / 5MHz / 16QAM



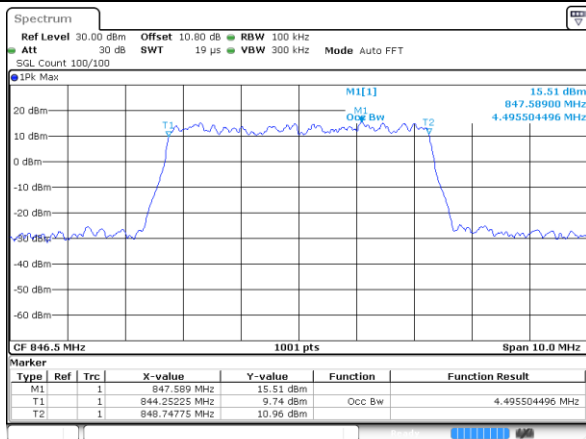
Middle Channel / 5MHz / QPSK



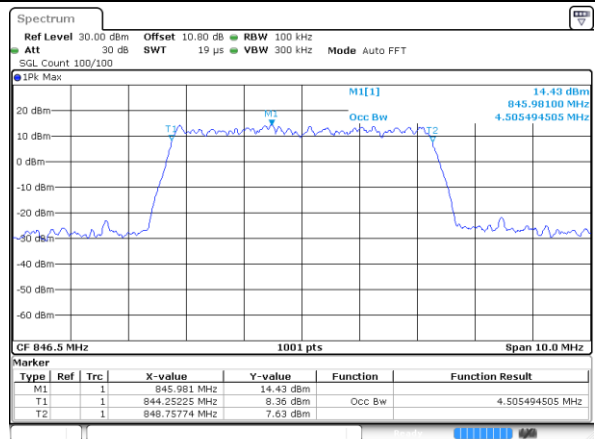
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



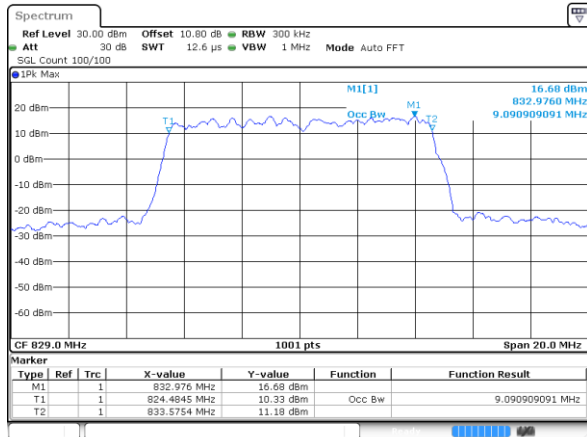
Highest Channel / 5MHz / 16QAM



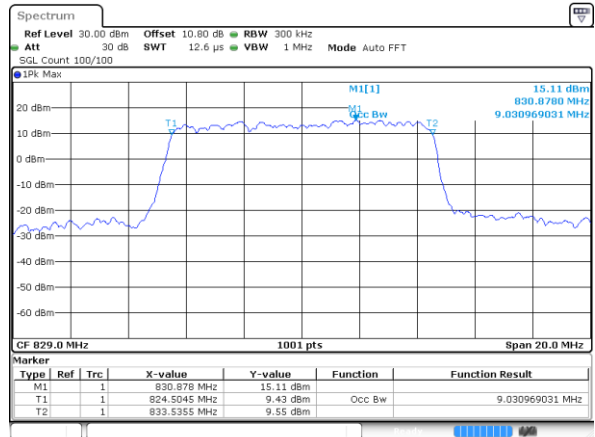


LTE Band 5

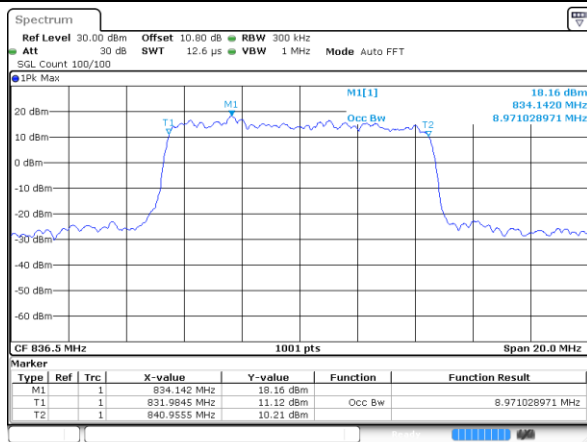
Lowest Channel / 10MHz / QPSK



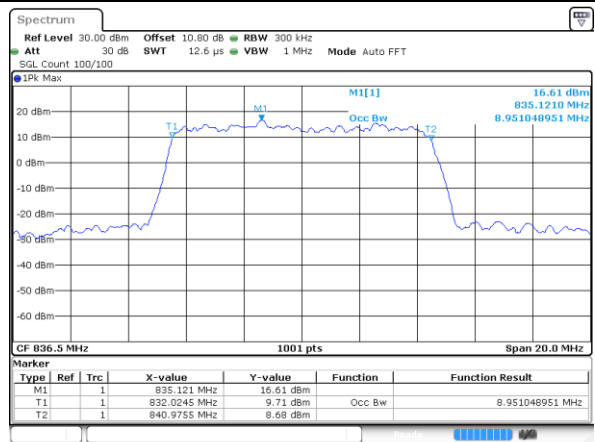
Lowest Channel / 10MHz / 16QAM



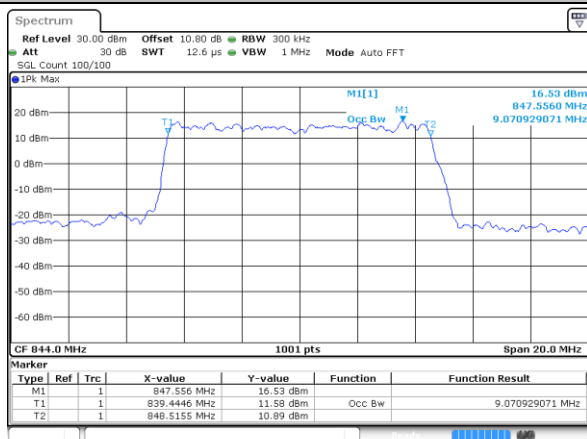
Middle Channel / 10MHz / QPSK



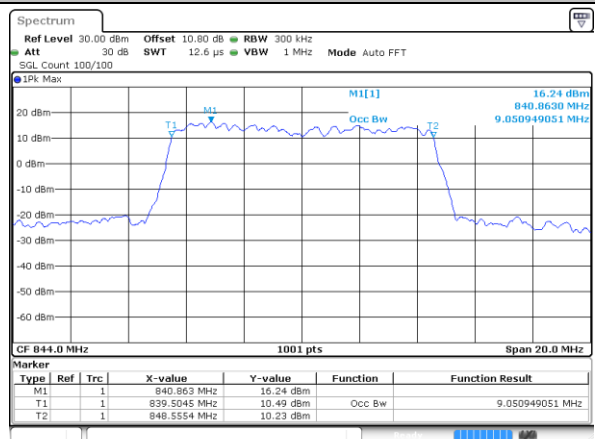
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



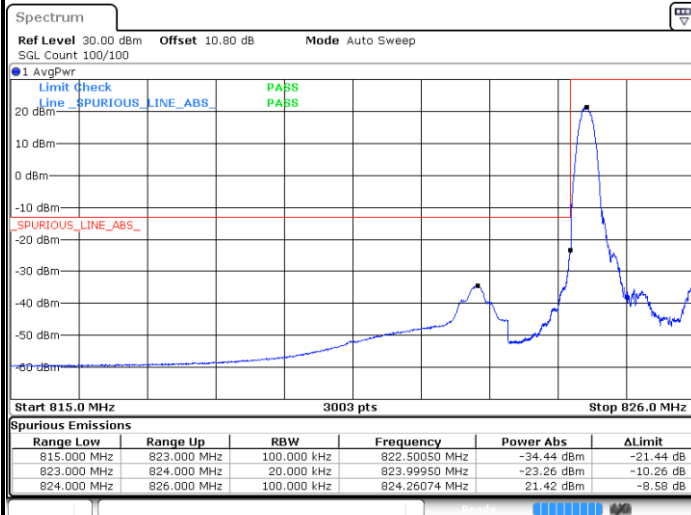


Conducted Band Edge

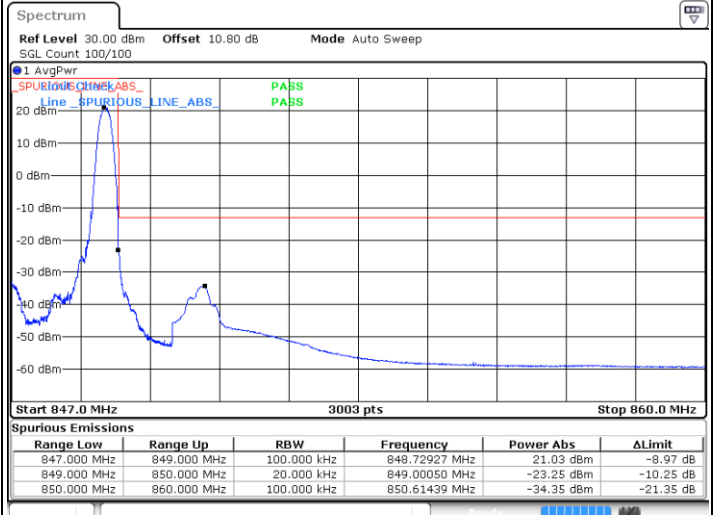


LTE Band 5 / 1.4MHz / QPSK

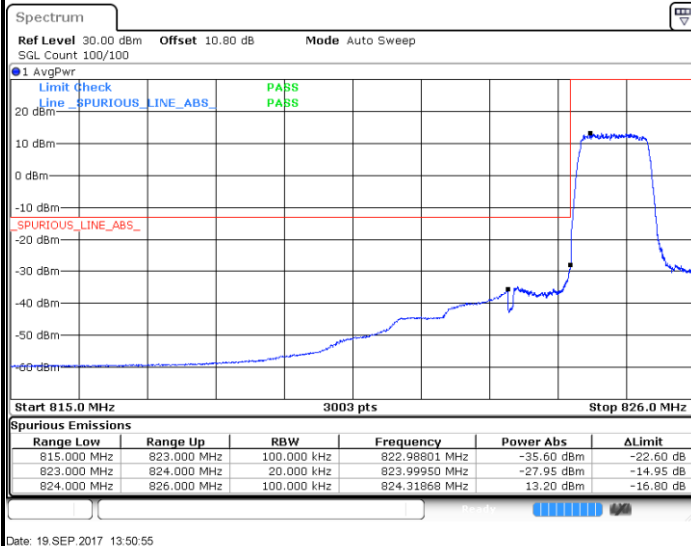
Lowest Band Edge / 1RB



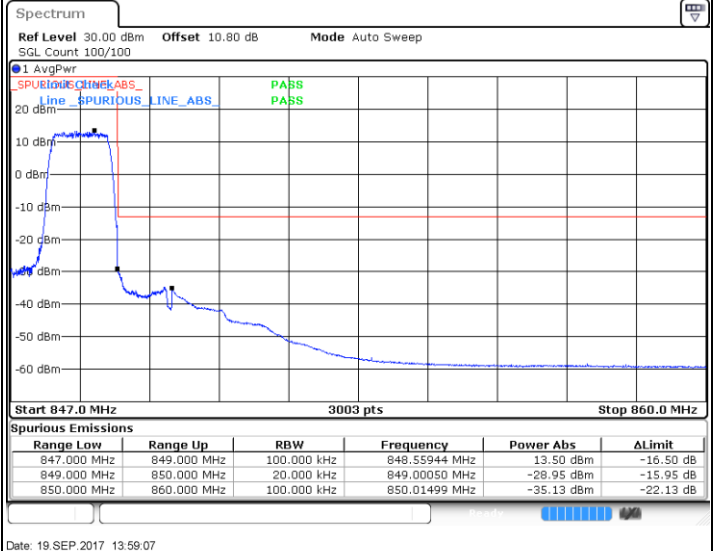
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



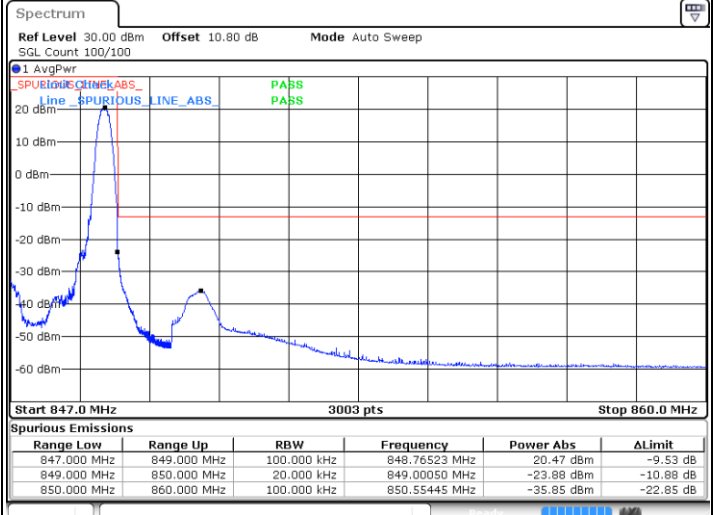


LTE Band 5 / 1.4MHz / 16QAM

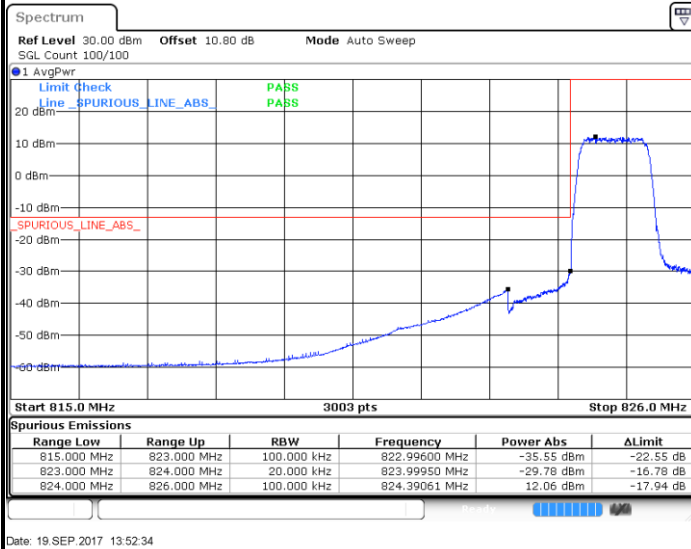
Lowest Band Edge / 1 RB



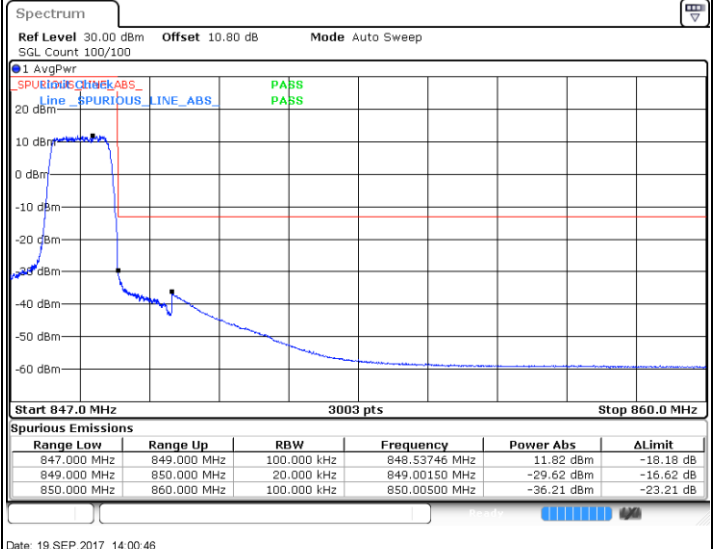
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



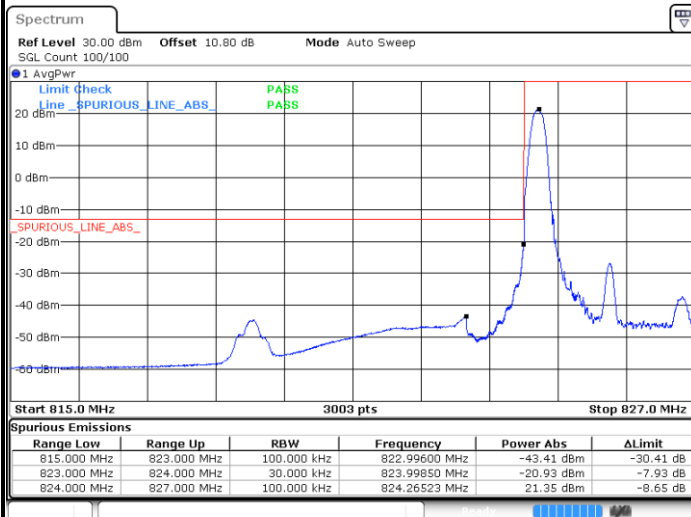
Highest Band Edge / Full RB



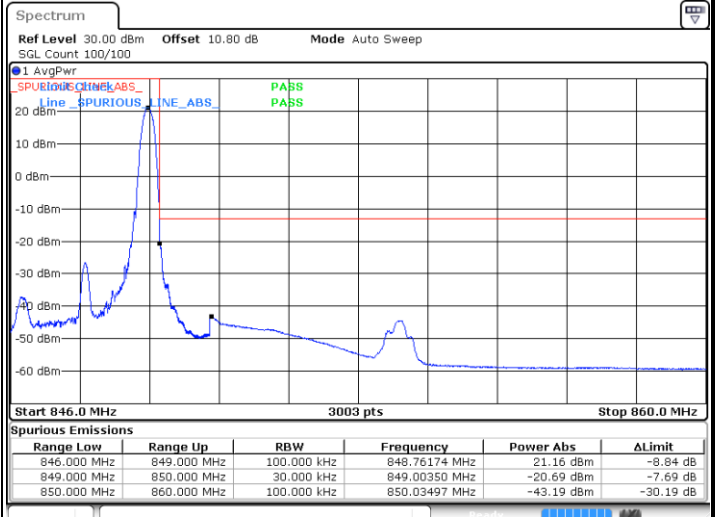


LTE Band 5 / 3MHz / QPSK

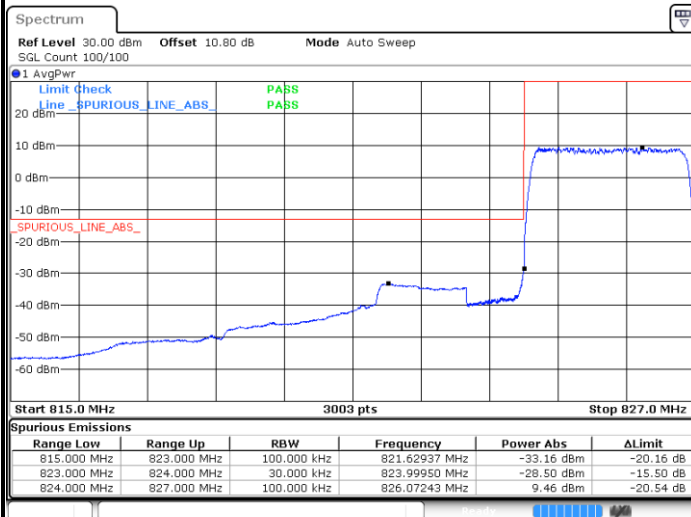
Lowest Band Edge / 1RB



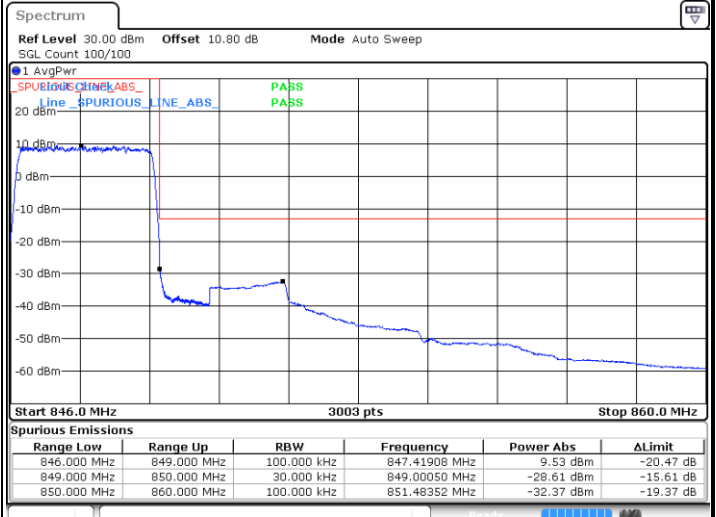
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



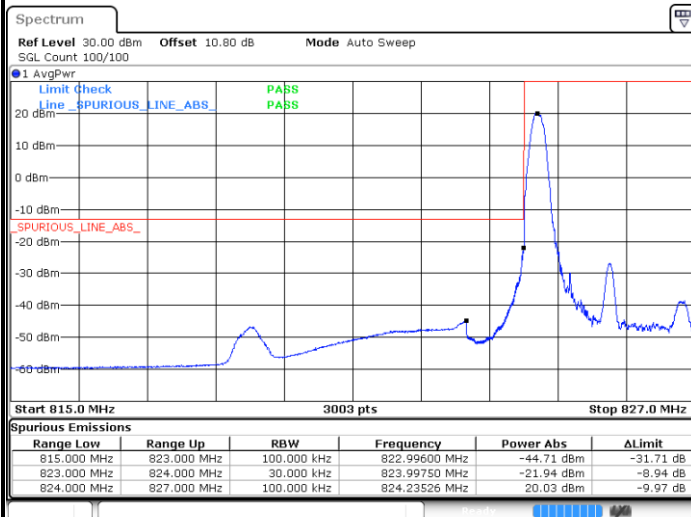
Highest Band Edge / Full RB



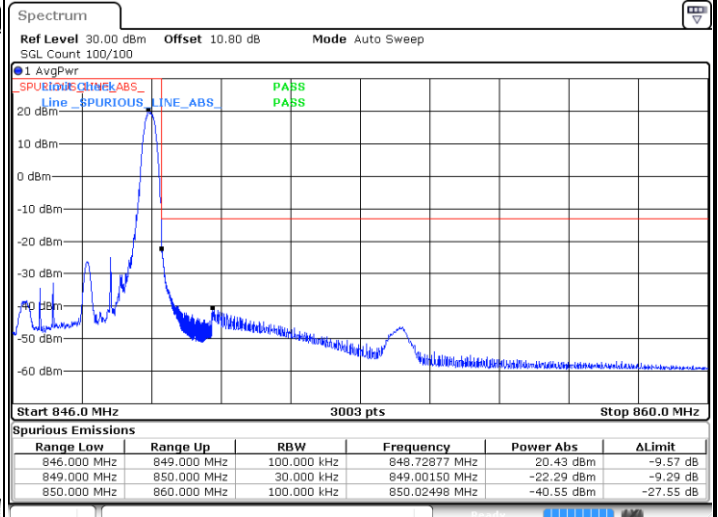


LTE Band 5 / 3MHz / 16QAM

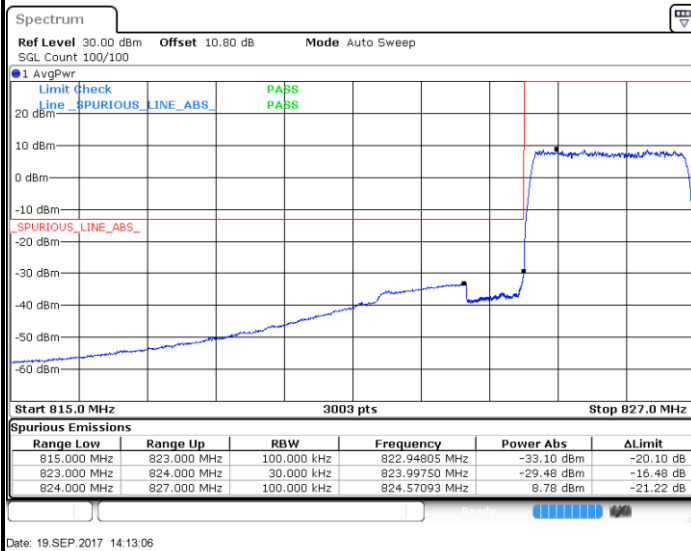
Lowest Band Edge / 1 RB



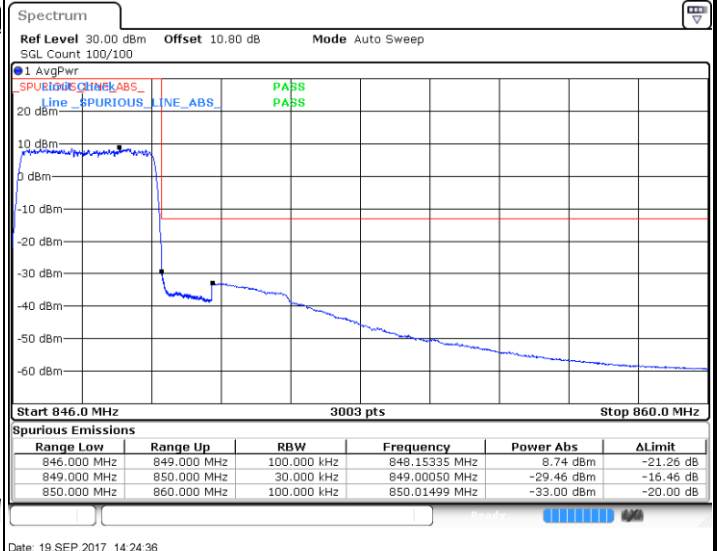
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



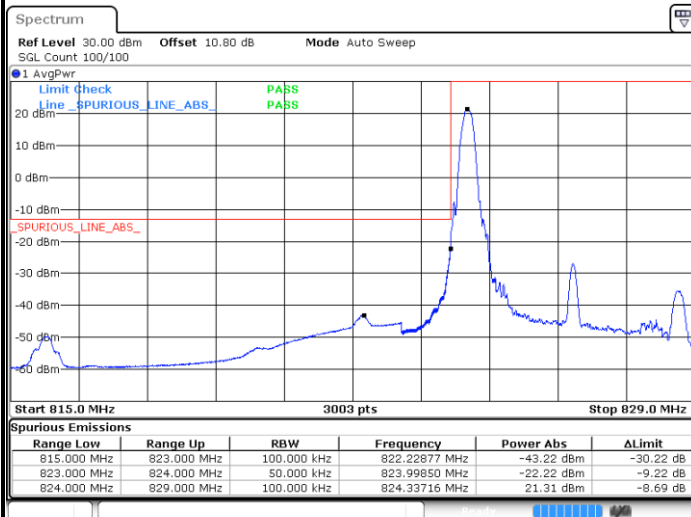
Highest Band Edge / Full RB



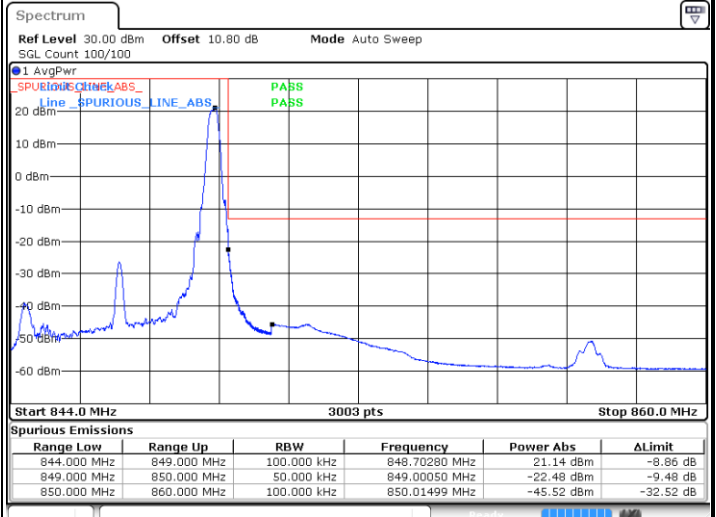


LTE Band 5 / 5MHz / QPSK

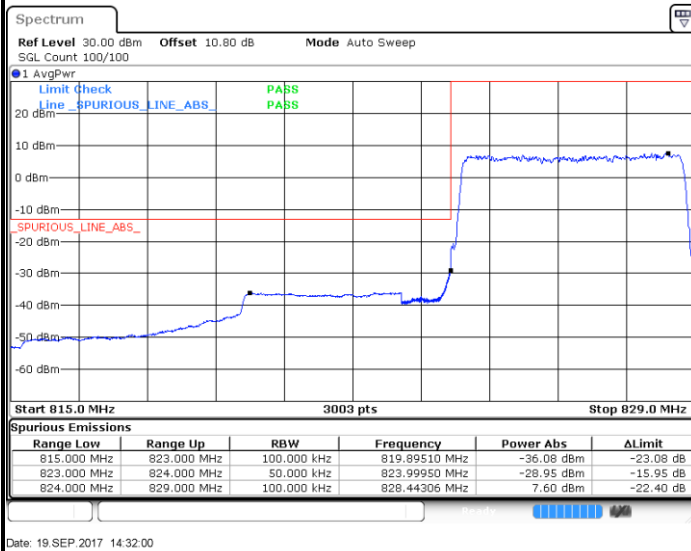
Lowest Band Edge / 1 RB



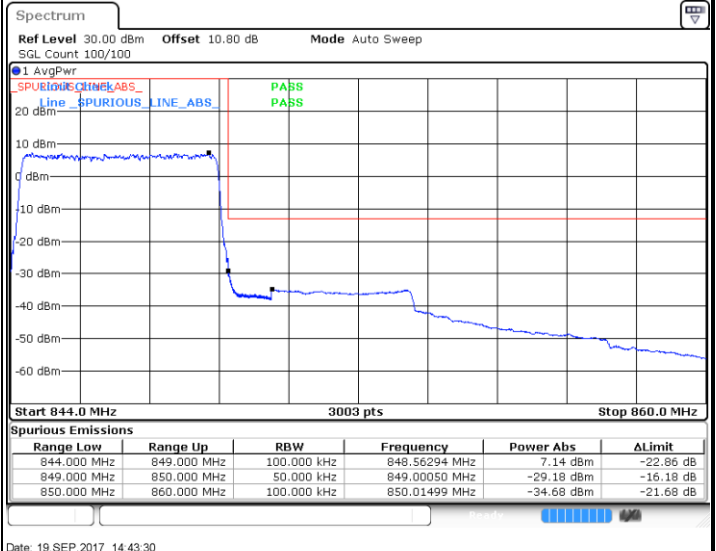
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



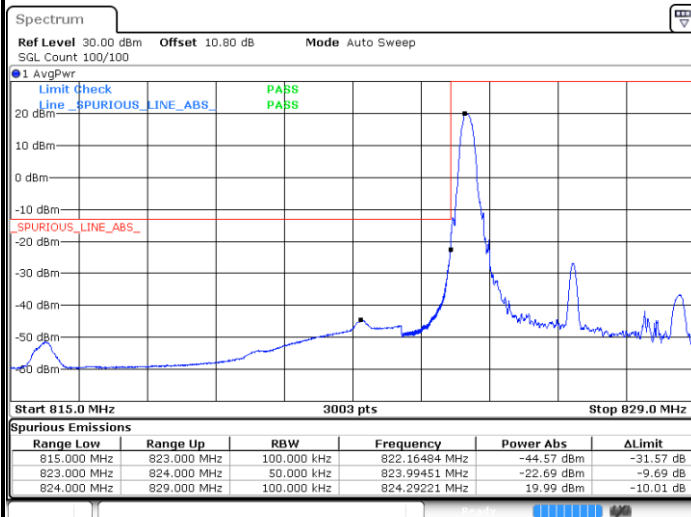
Highest Band Edge / Full RB



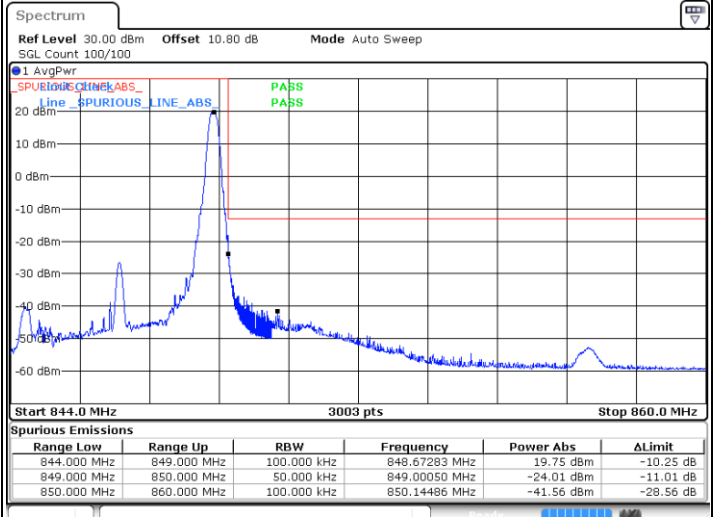


LTE Band 5 / 5MHz / 16QAM

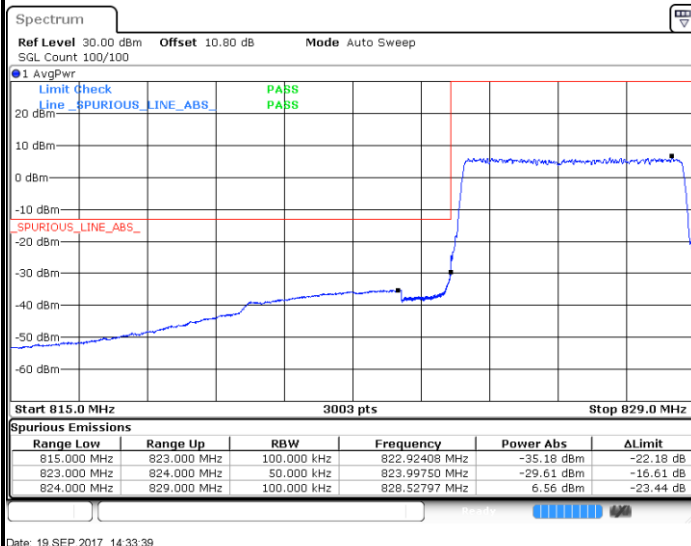
Lowest Band Edge / 1RB



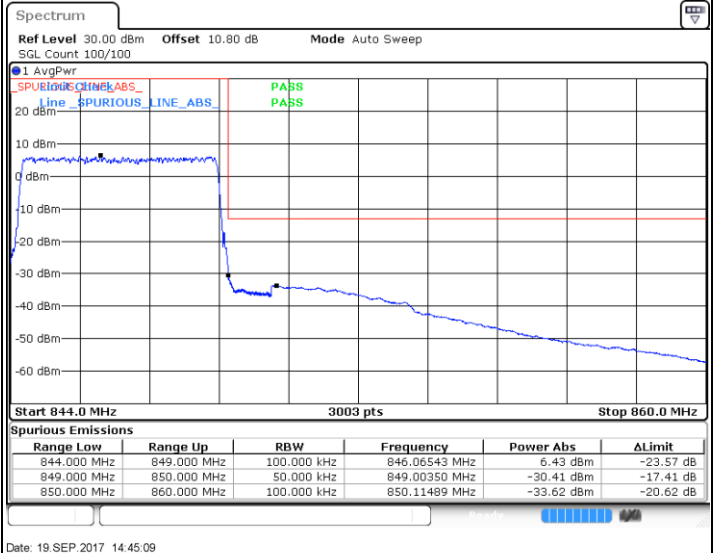
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



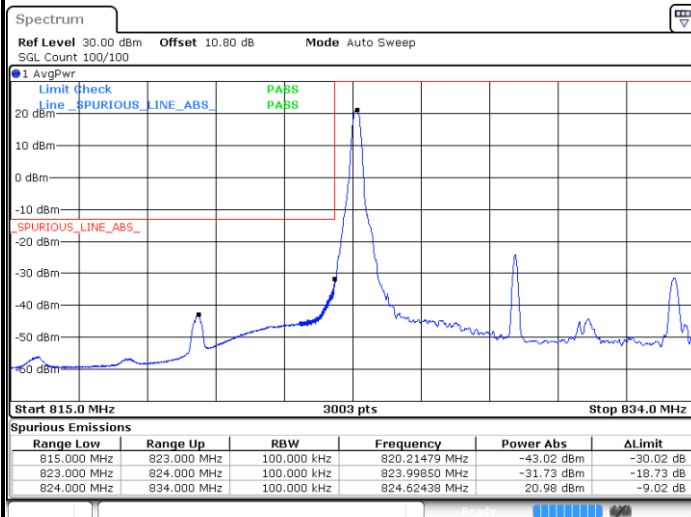
Highest Band Edge / Full RB



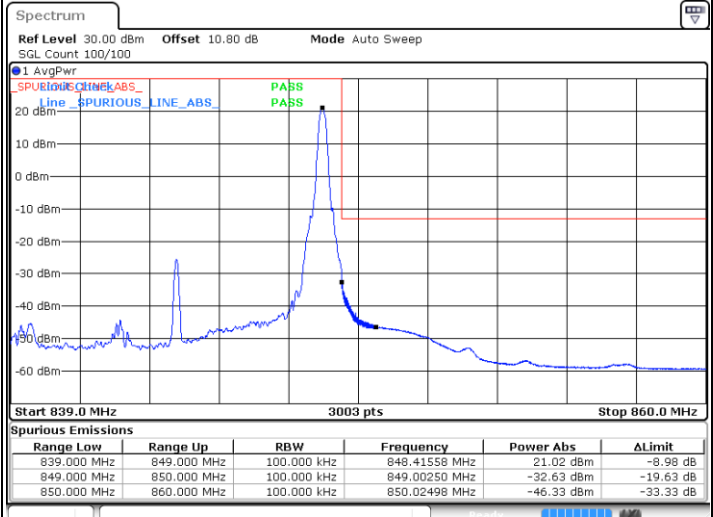


LTE Band 5 / 10MHz / QPSK

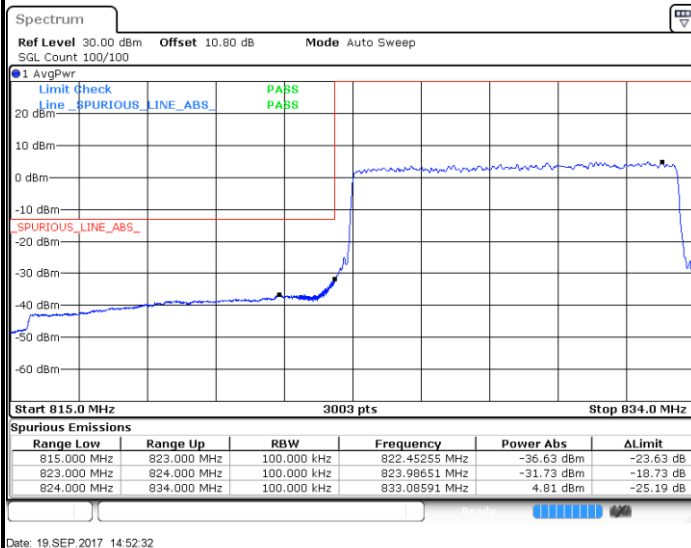
Lowest Band Edge / 1 RB



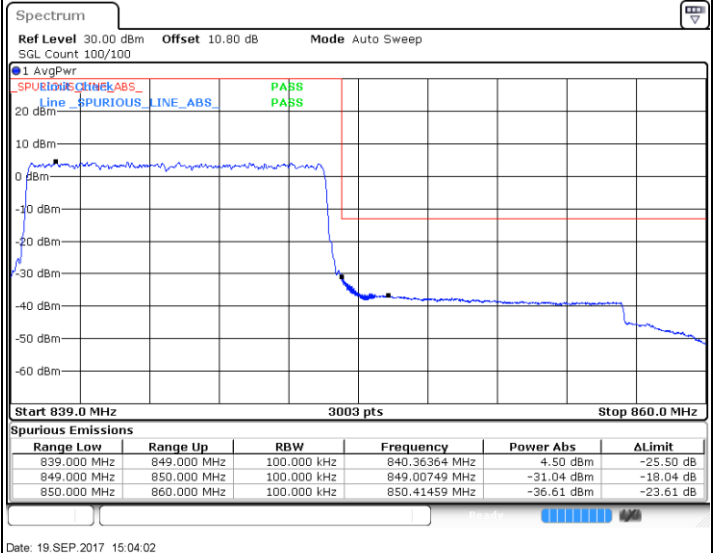
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



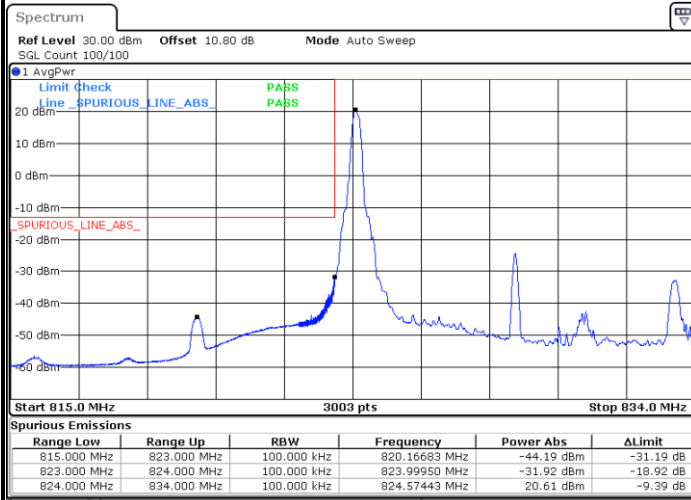
Highest Band Edge / Full RB



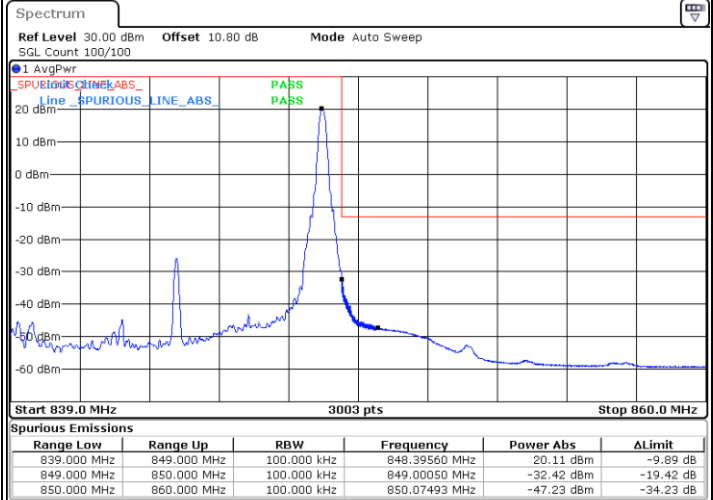


LTE Band 5 / 10MHz / 16QAM

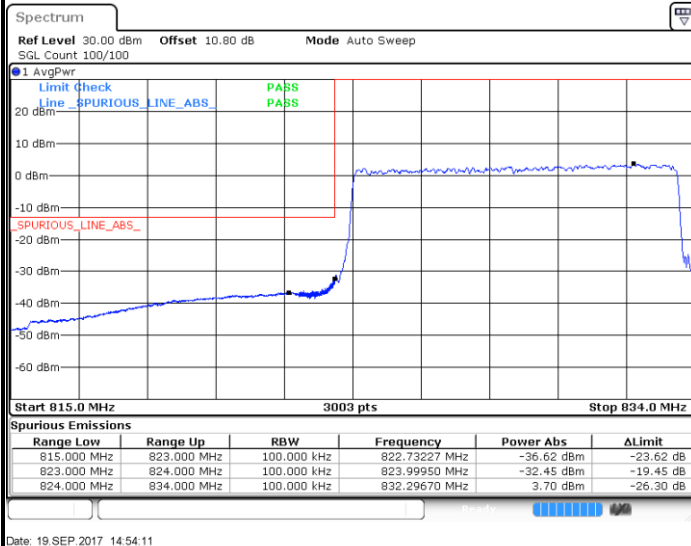
Lowest Band Edge / 1 RB



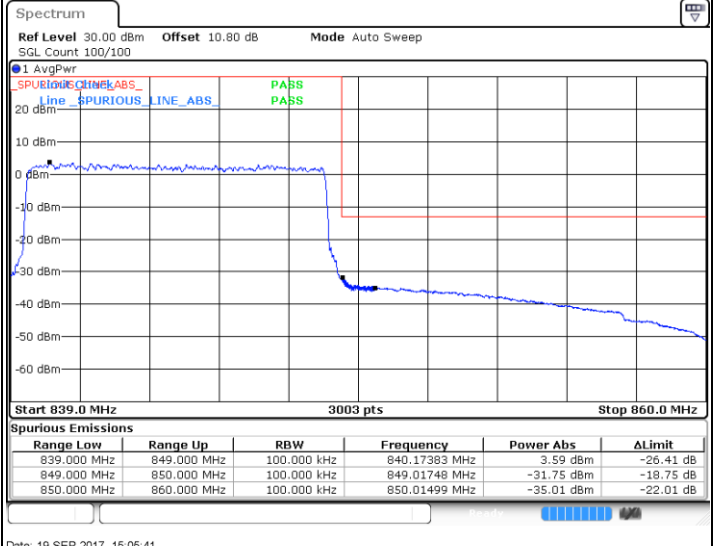
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



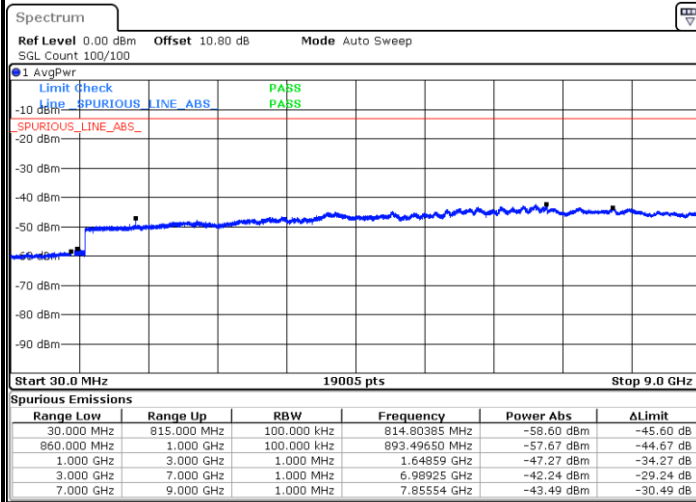


Conducted Spurious Emission



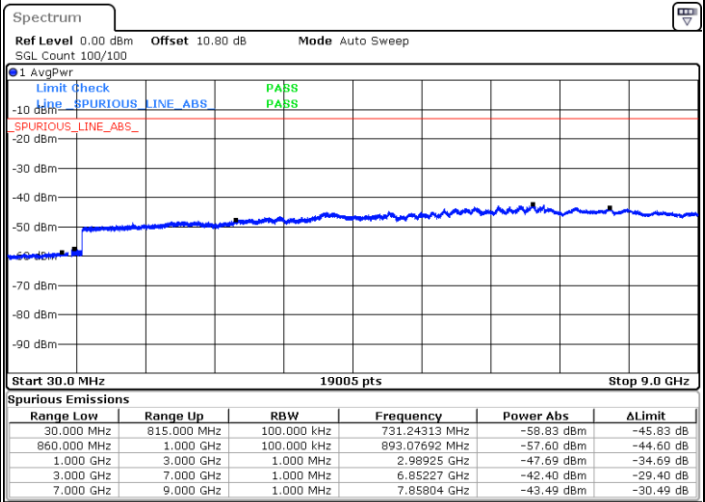
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



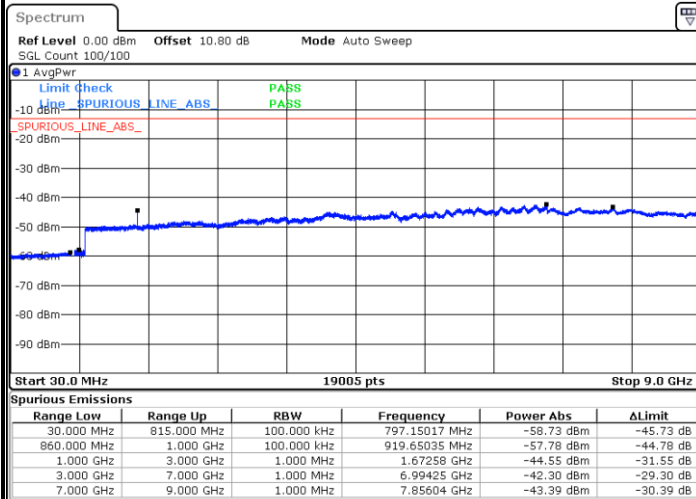
Date: 19.SEP.2017 13:53:28

Lowest Channel / 16QAM



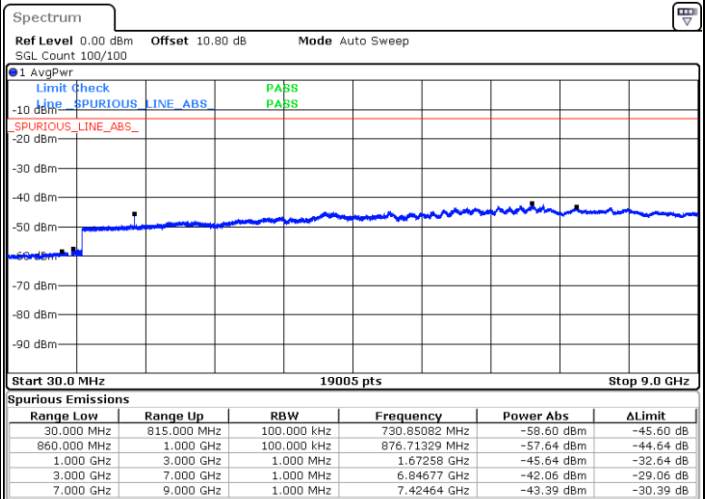
Date: 19.SEP.2017 13:54:22

Middle Channel / QPSK



Date: 19.SEP.2017 13:55:56

Middle Channel / 16QAM



Date: 19.SEP.2017 13:56:49