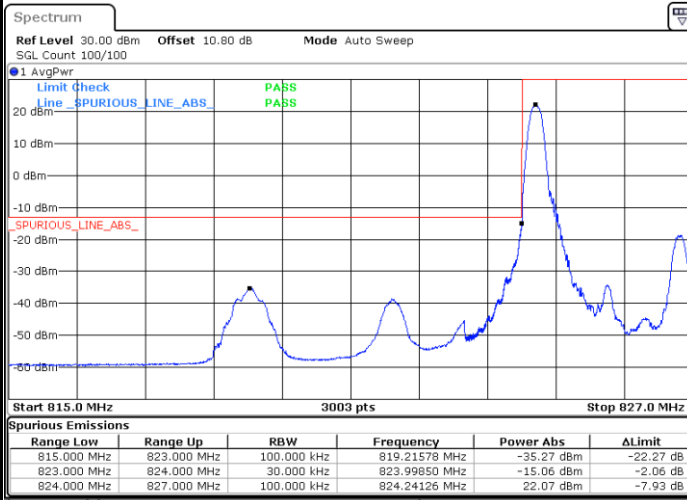




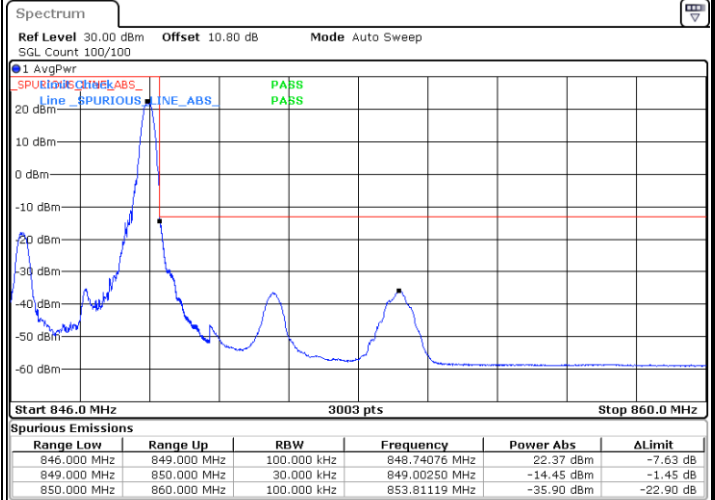
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



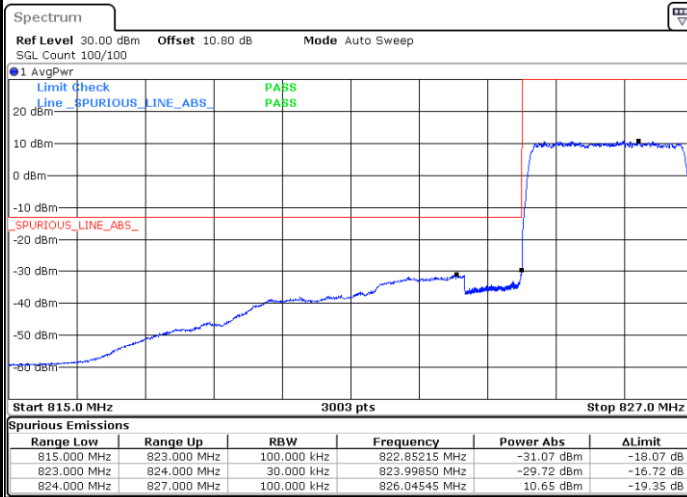
Date: 1 SEP.2017 18:58:50

Highest Band Edge / 1 RB



Date: 1 SEP.2017 19:10:20

Lowest Band Edge / Full RB



Date: 1 SEP.2017 19:02:07

Highest Band Edge / Full RB



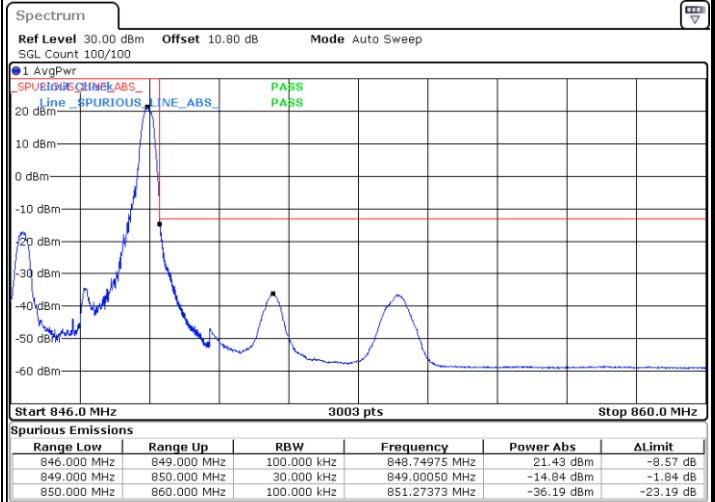
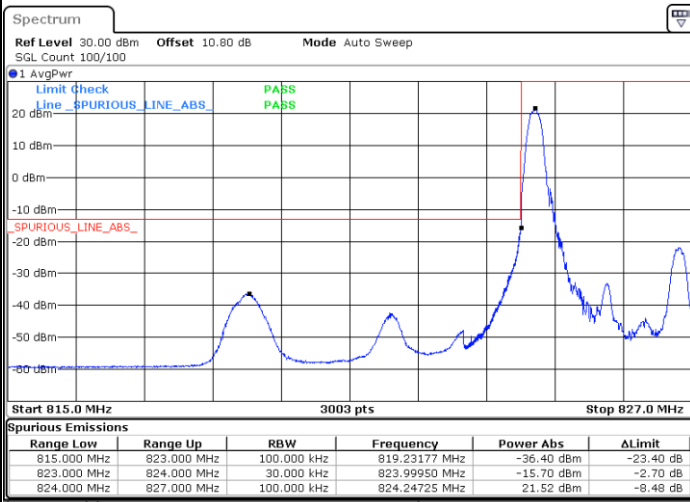
Date: 1 SEP.2017 19:13:38



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

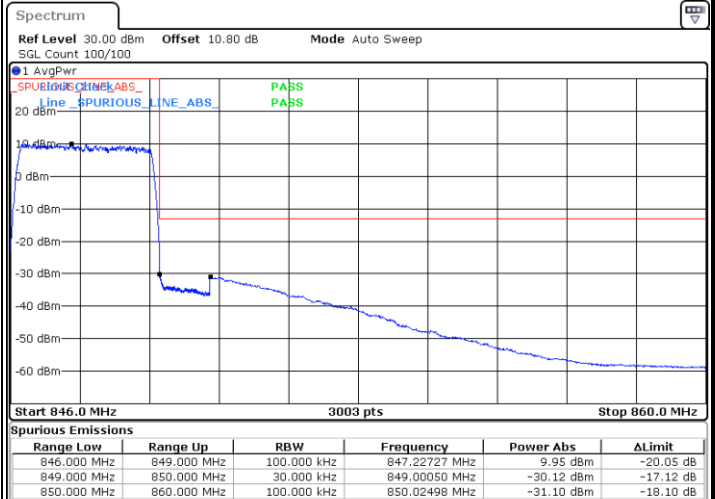
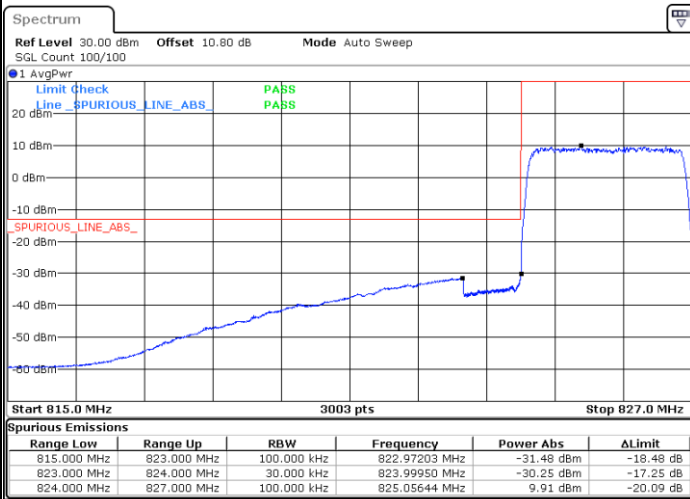


Date: 1 SEP.2017 19:00:29

Date: 1 SEP.2017 19:11:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



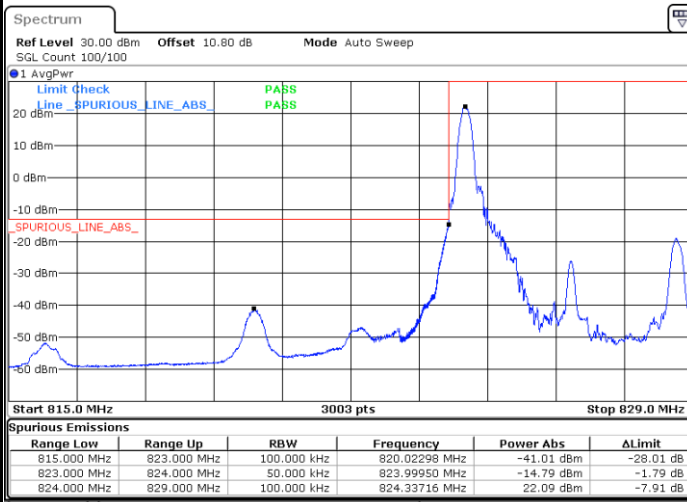
Date: 1 SEP.2017 19:03:46

Date: 1 SEP.2017 19:15:16



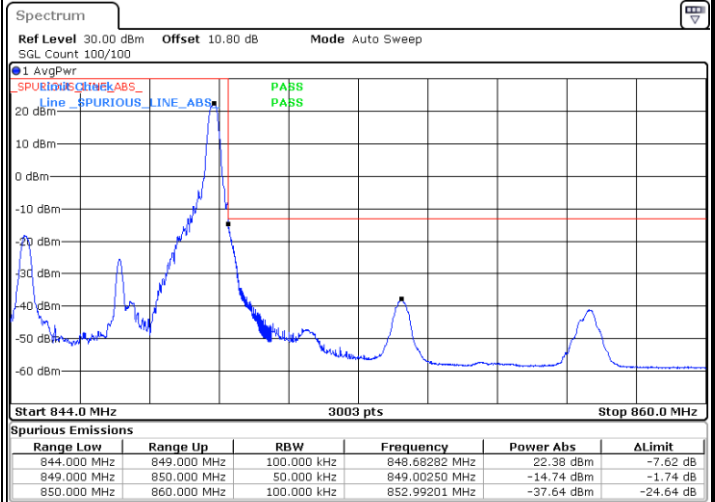
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



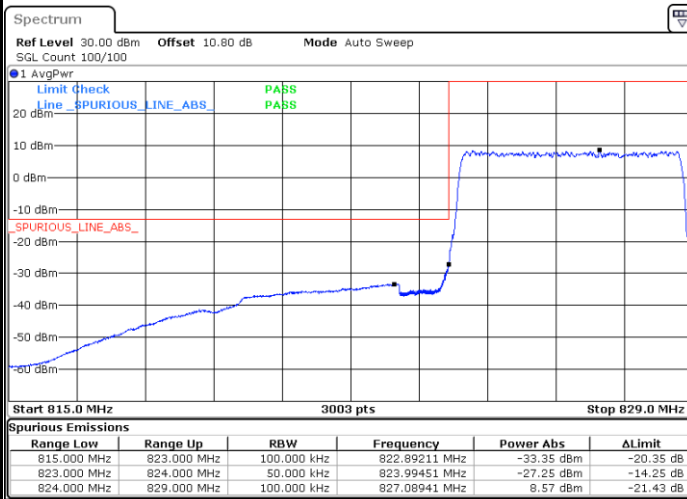
Date: 1 SEP.2017 19:19:23

Highest Band Edge / 1 RB



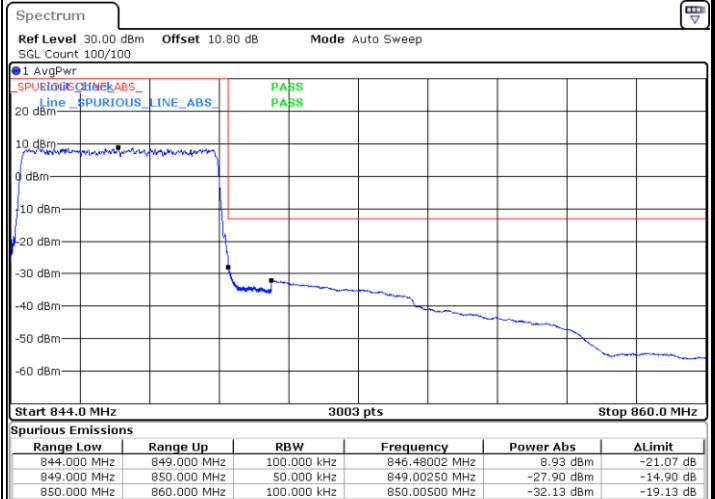
Date: 1 SEP.2017 19:30:53

Lowest Band Edge / Full RB



Date: 1 SEP.2017 19:22:40

Highest Band Edge / Full RB

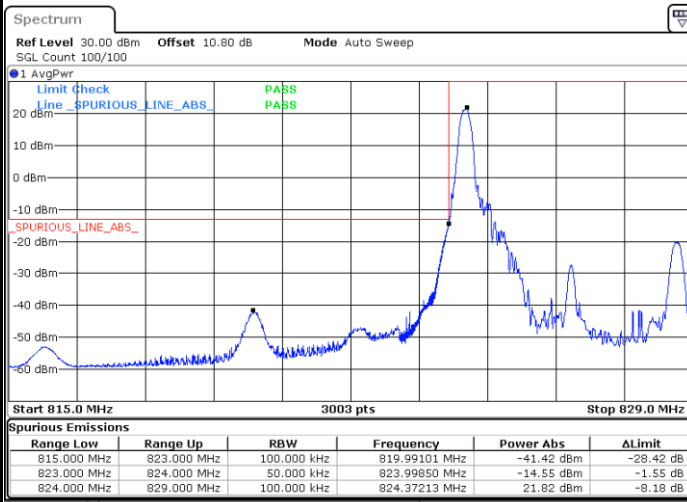


Date: 1 SEP.2017 19:34:10



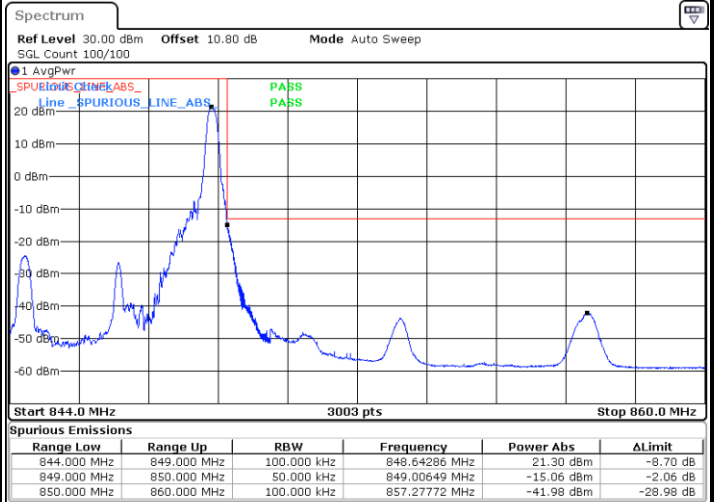
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



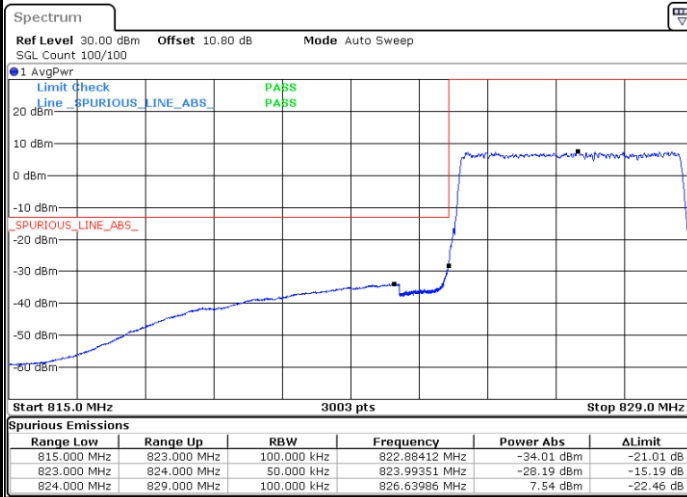
Date: 1 SEP.2017 19:21:01

Highest Band Edge / 1 RB



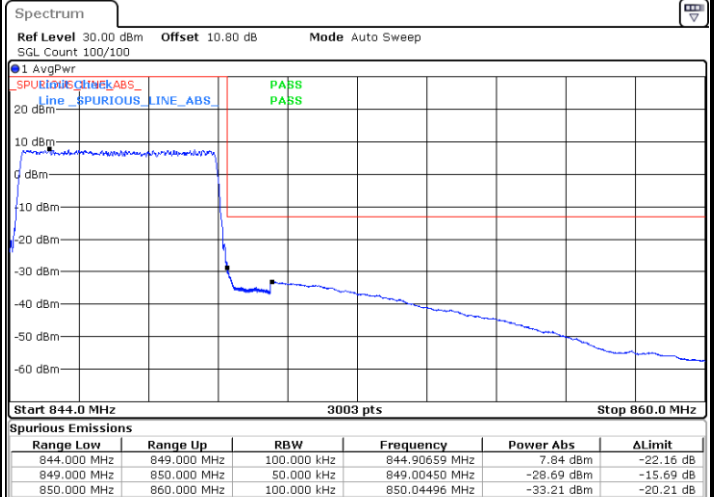
Date: 1 SEP.2017 19:32:31

Lowest Band Edge / Full RB



Date: 1 SEP.2017 19:24:19

Highest Band Edge / Full RB

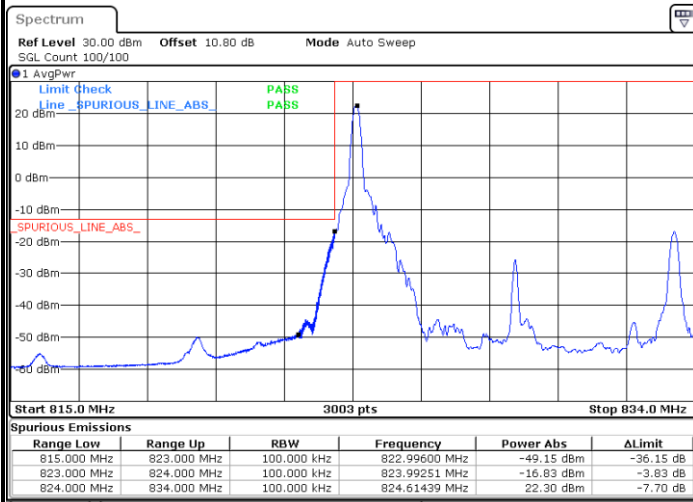


Date: 1 SEP.2017 19:35:49



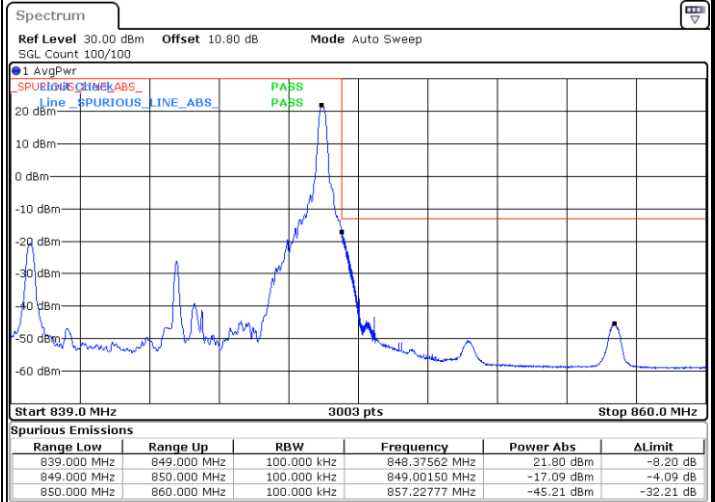
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



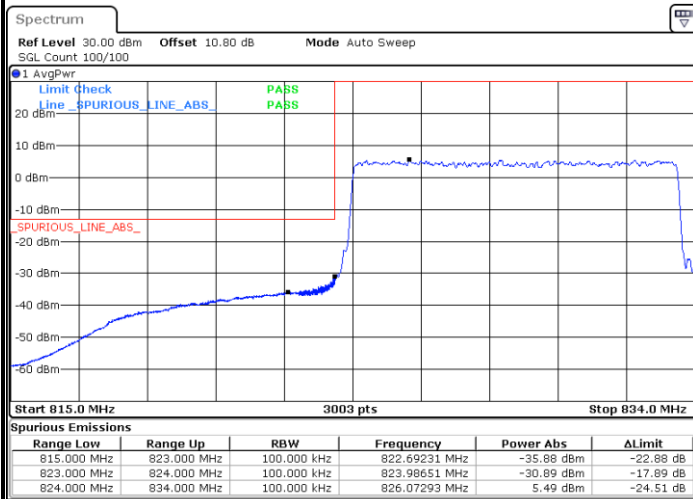
Date: 1 SEP.2017 19:39:55

Highest Band Edge / 1 RB



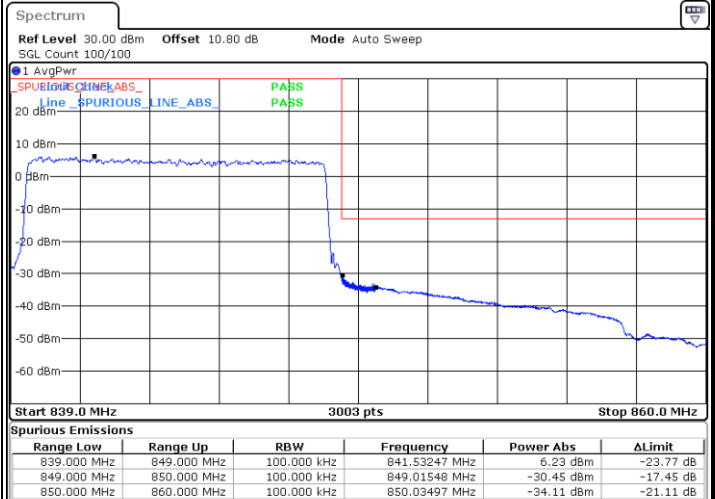
Date: 1 SEP.2017 19:51:25

Lowest Band Edge / Full RB



Date: 1 SEP.2017 19:43:13

Highest Band Edge / Full RB

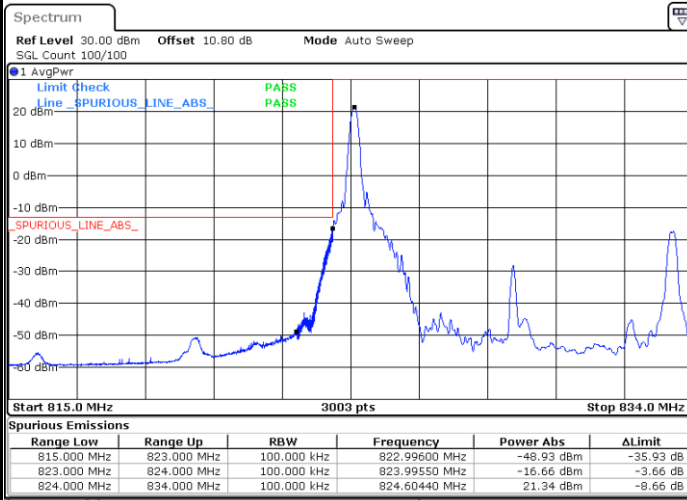


Date: 1 SEP.2017 19:54:42



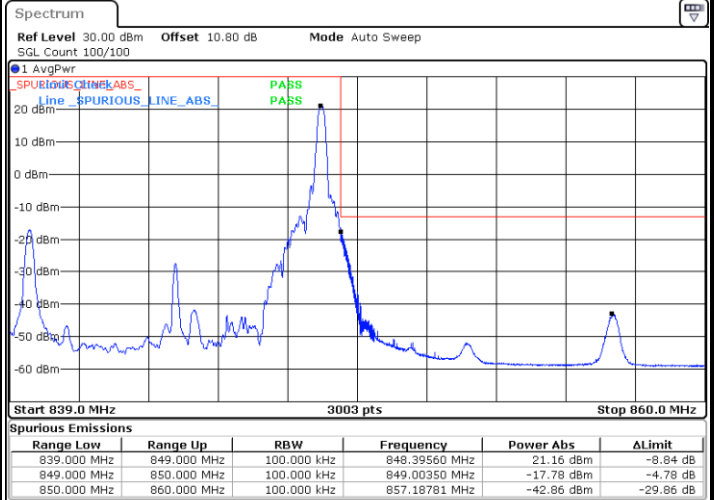
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



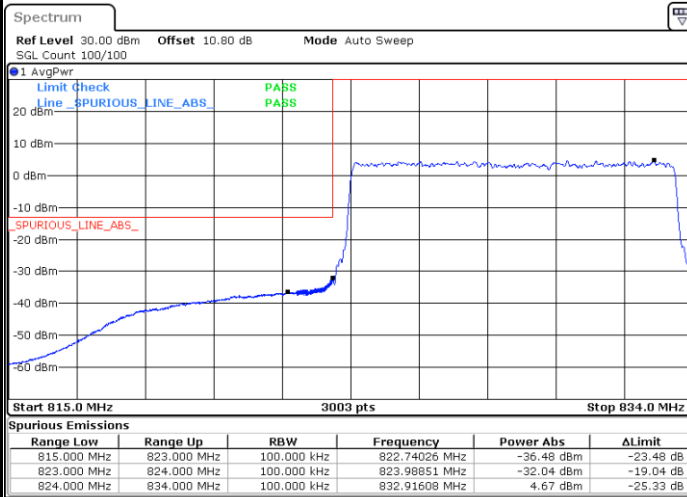
Date: 1 SEP.2017 19:41:34

Highest Band Edge / 1 RB



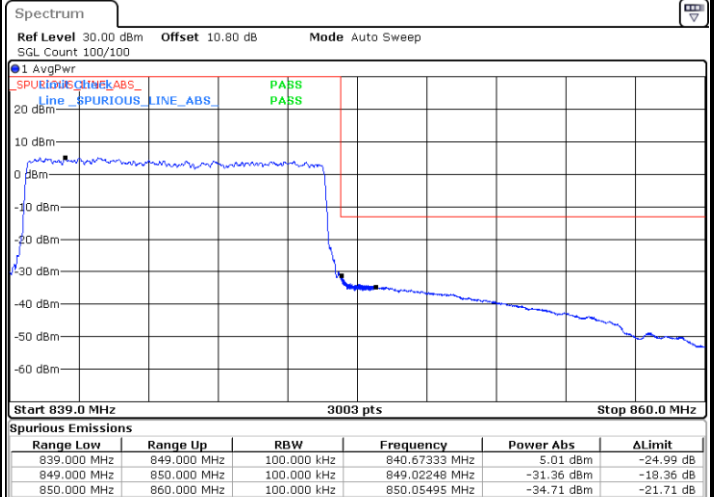
Date: 1 SEP.2017 19:53:03

Lowest Band Edge / Full RB



Date: 1 SEP.2017 19:44:51

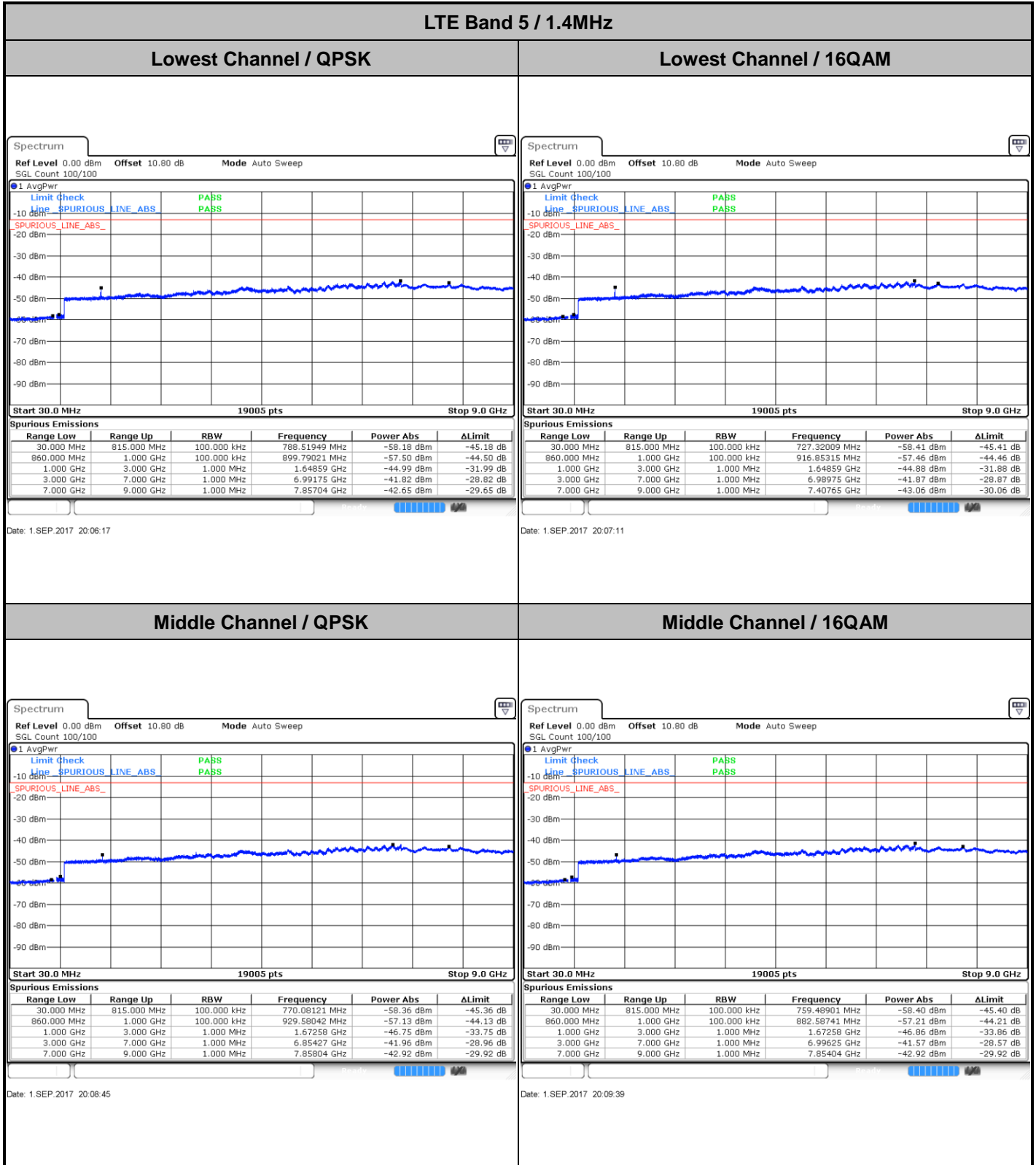
Highest Band Edge / Full RB



Date: 1 SEP.2017 19:56:21



# Conducted Spurious Emission

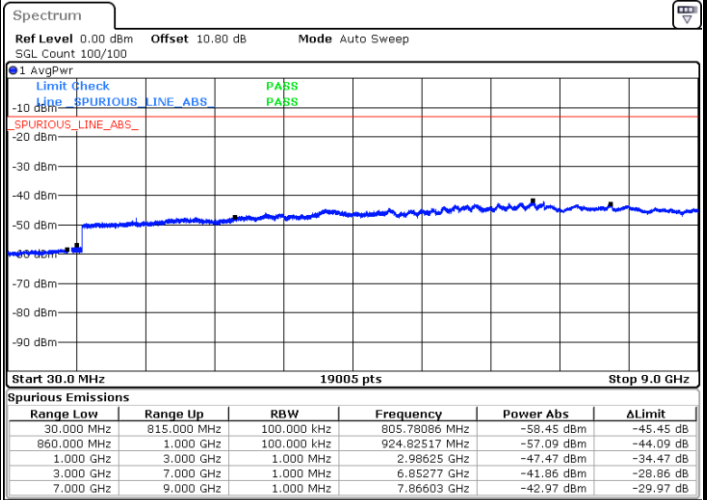
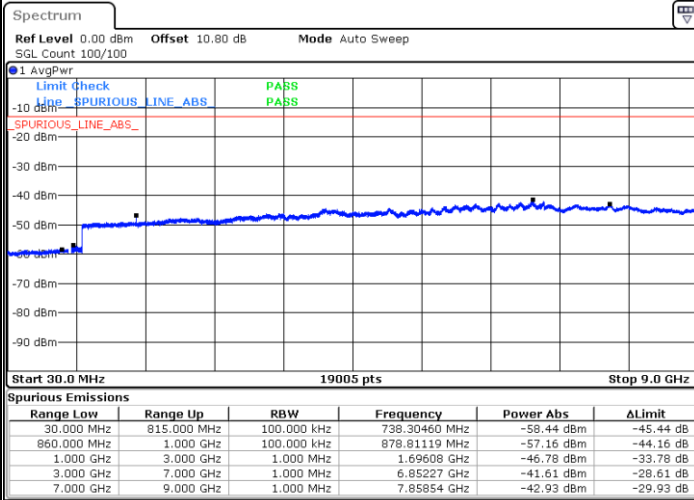




LTE Band 5 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



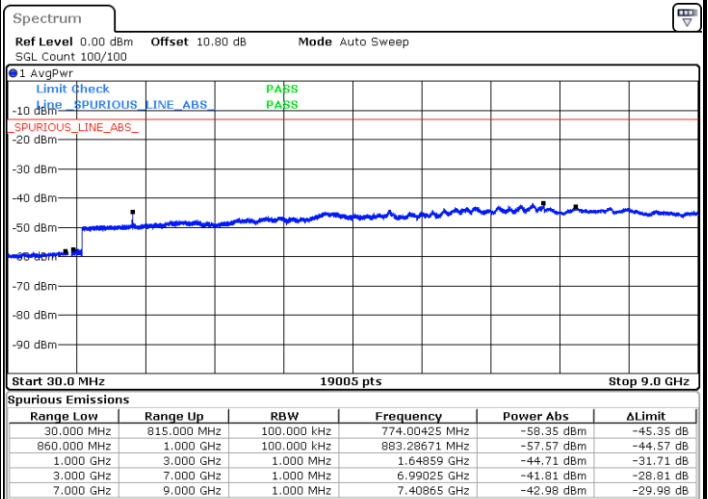
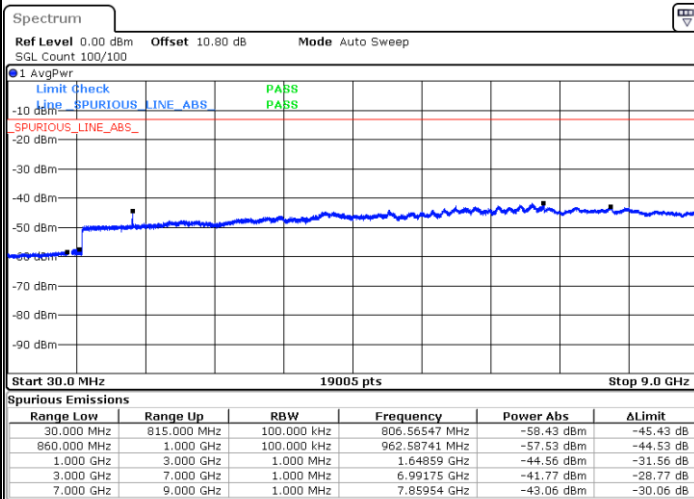
Date: 1.SEP.2017 20:17:47

Date: 1.SEP.2017 20:18:41

LTE Band 5 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 1.SEP.2017 19:04:40

Date: 1.SEP.2017 19:05:34

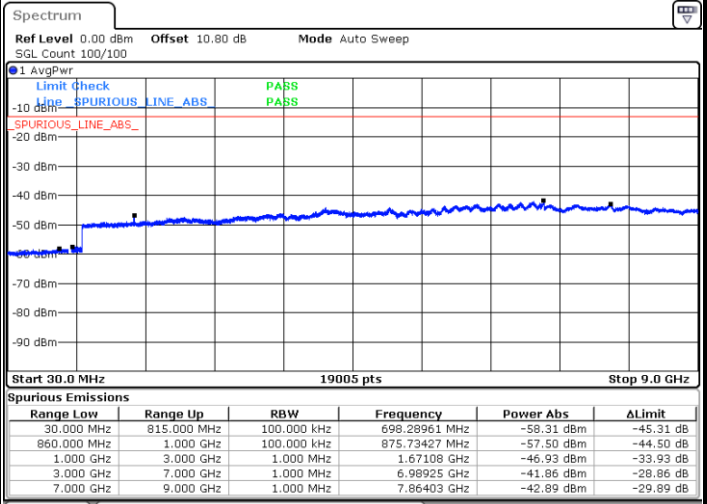
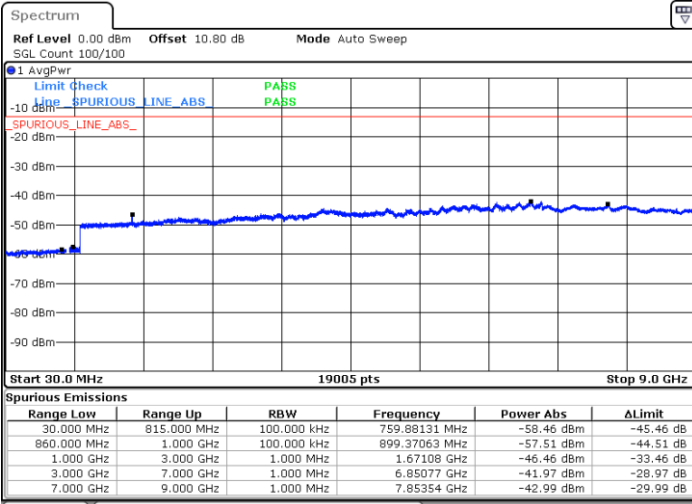




LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

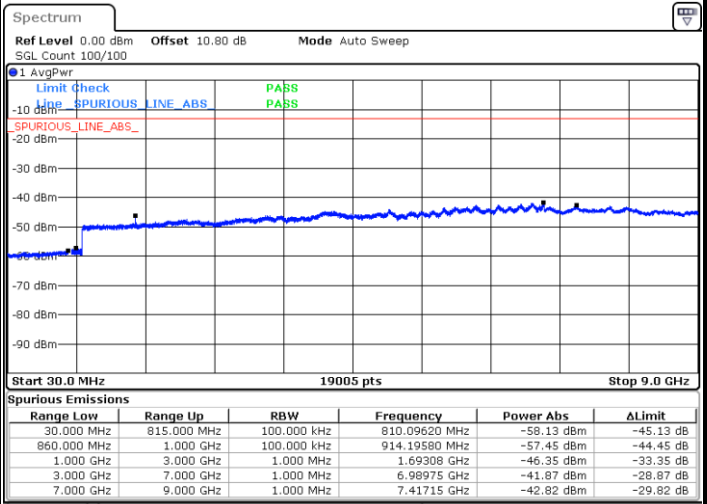
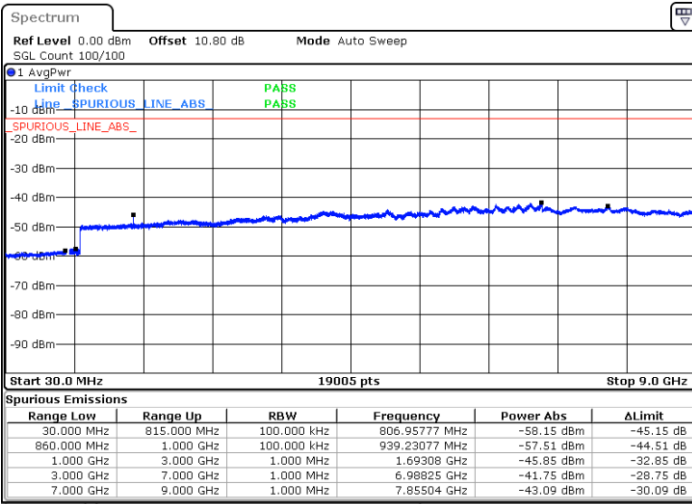


Date: 1.SEP.2017 19:07:08

Date: 1.SEP.2017 19:08:02

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.SEP.2017 19:16:11

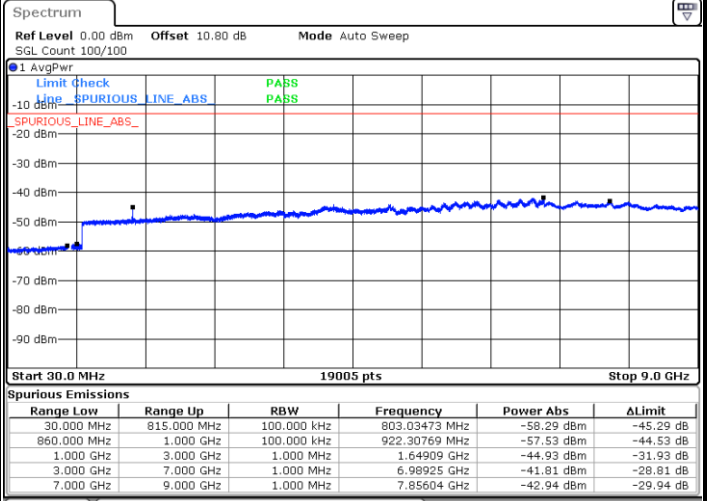
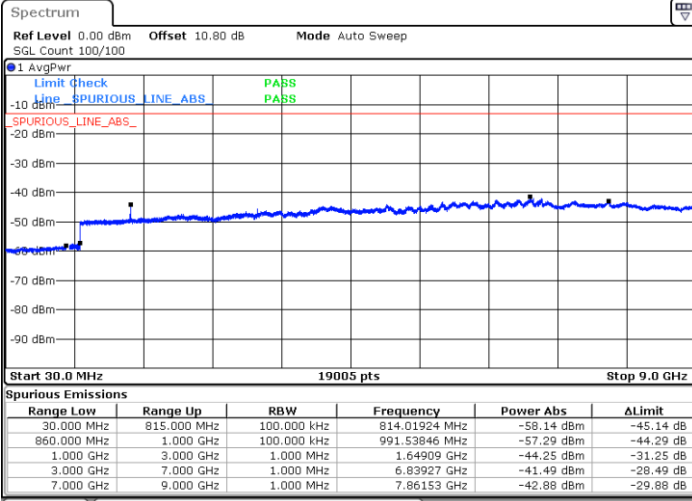
Date: 1.SEP.2017 19:17:04



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

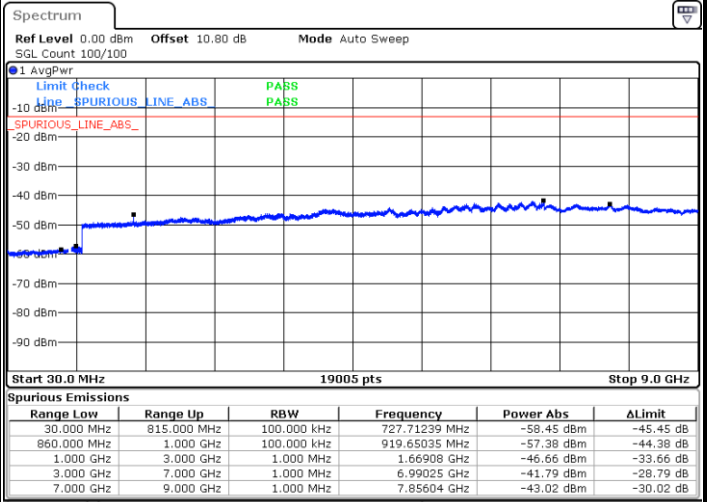
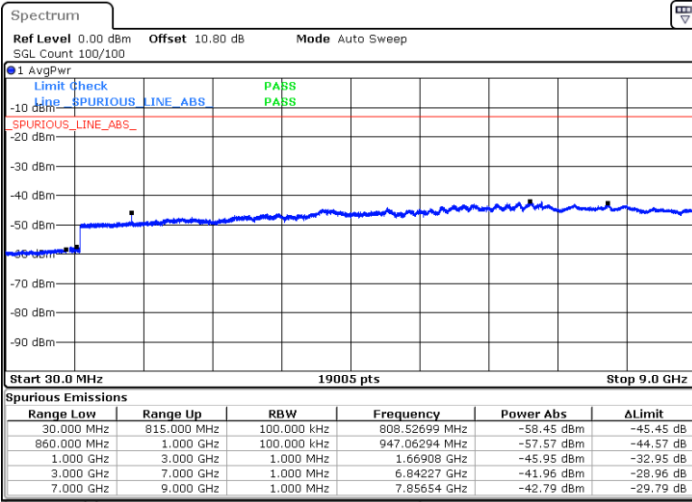


Date: 1.SEP.2017 19:25:13

Date: 1.SEP.2017 19:26:07

Middle Channel / QPSK

Middle Channel / 16QAM



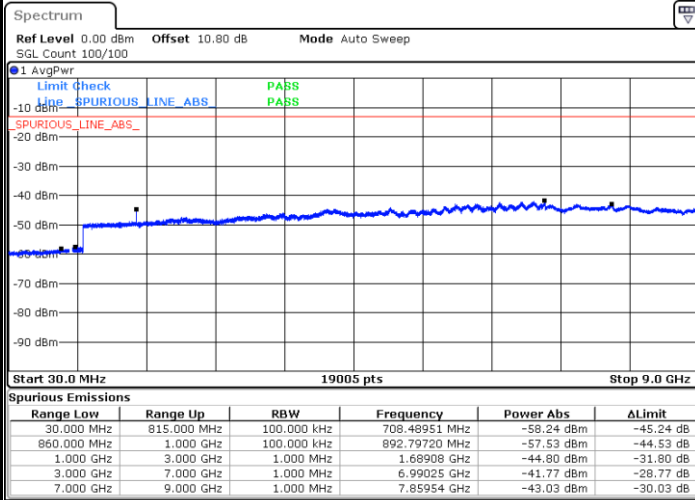
Date: 1.SEP.2017 19:27:41

Date: 1.SEP.2017 19:28:34



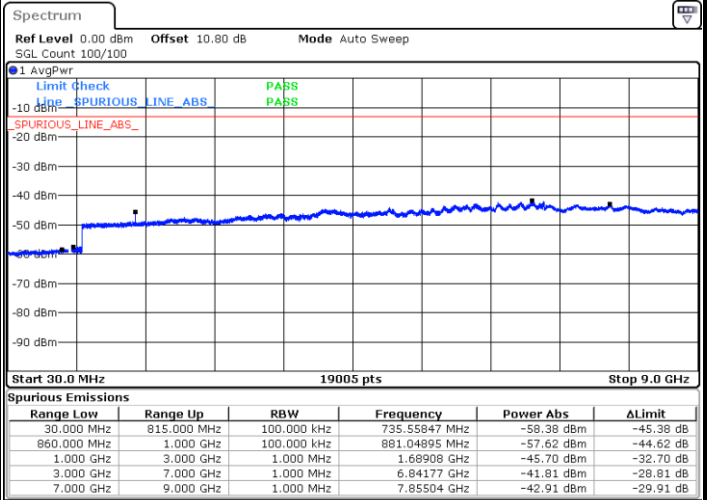
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 1.SEP.2017 19:36:43

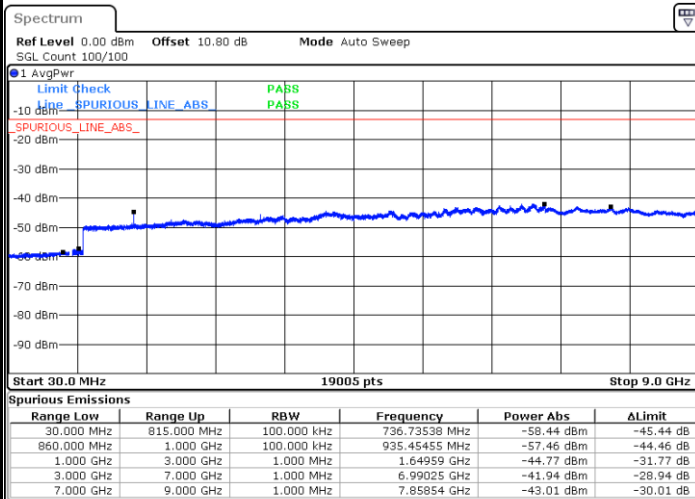
Highest Channel / 16QAM



Date: 1.SEP.2017 19:37:37

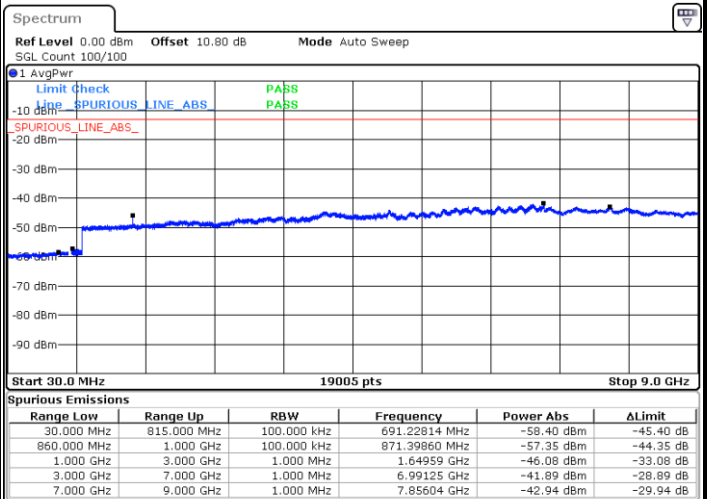
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 1.SEP.2017 19:45:46

Lowest Channel / 16QAM



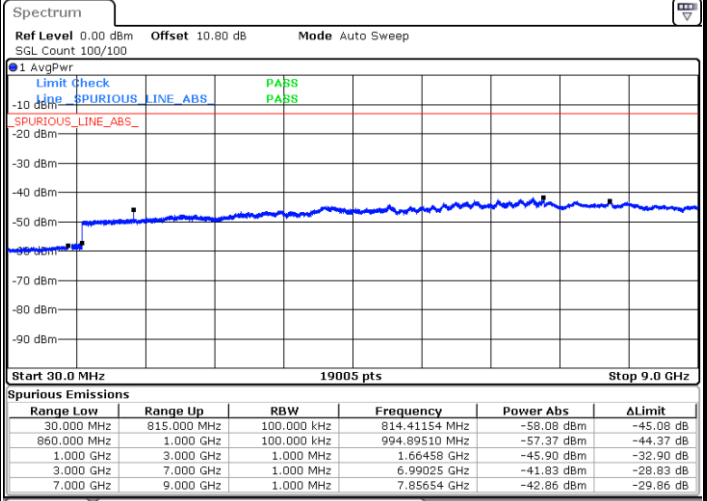
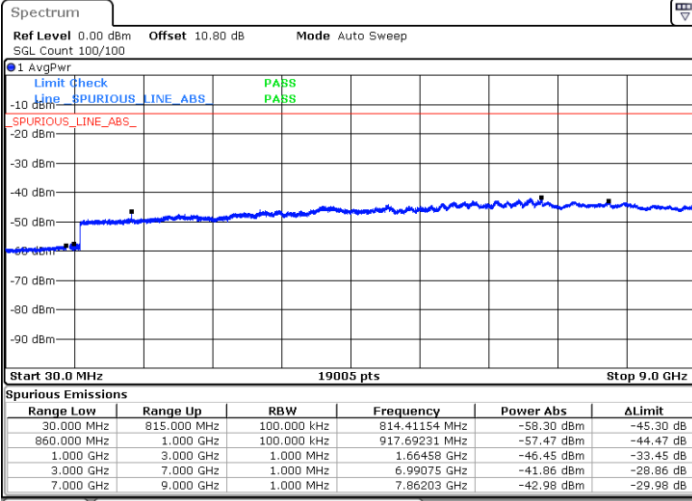
Date: 1.SEP.2017 19:46:39



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

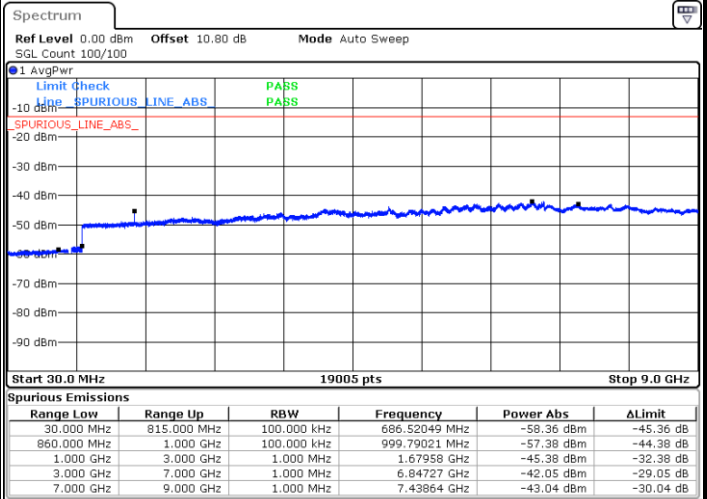
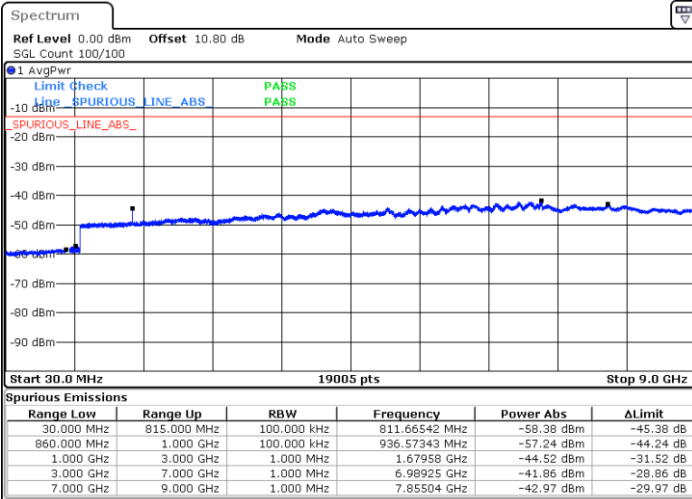


Date: 1.SEP.2017 19:48:13

Date: 1.SEP.2017 19:49:07

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.SEP.2017 19:57:15

Date: 1.SEP.2017 19:58:09



**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0092	PASS
40	Normal Voltage	0.0087	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0081	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0090	
-30	Normal Voltage	0.0065	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 7

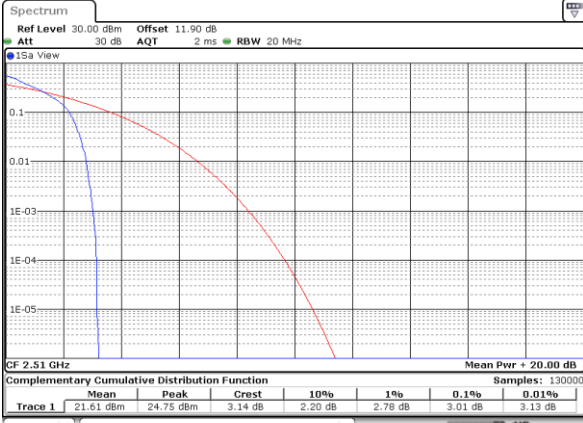
### Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.01	4.72	3.97	5.71	<b>PASS</b>
Middle CH	3.39	4.75	4.64	5.57	
Highest CH	3.33	4.49	4.43	5.42	



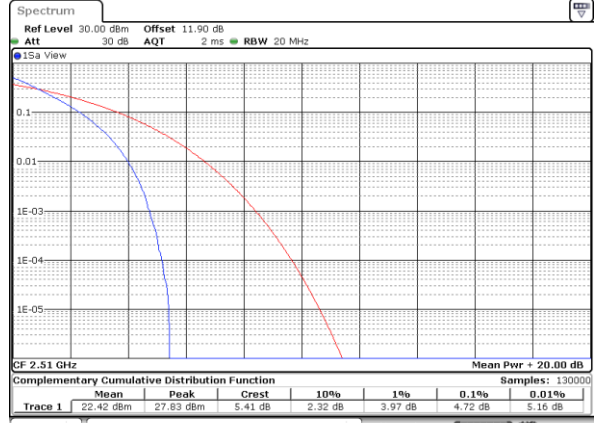
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



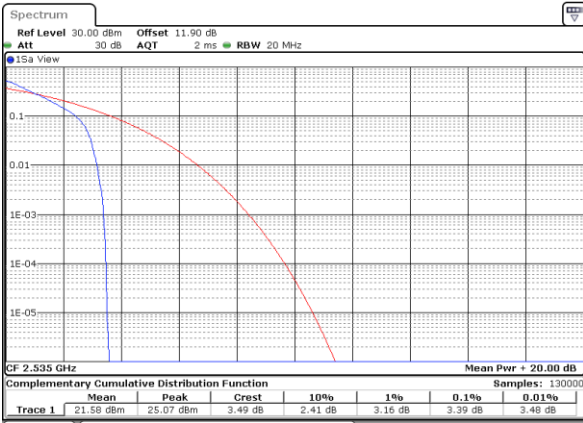
Date: 4 SEP 2017 10:16:41

Lowest Channel / Full RB



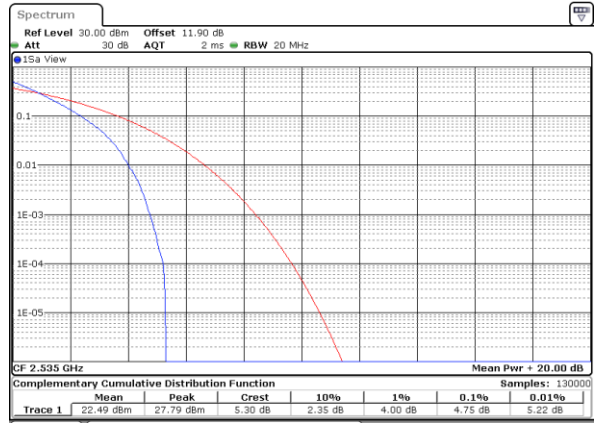
Date: 4 SEP 2017 10:16:50

Middle Channel / 1RB



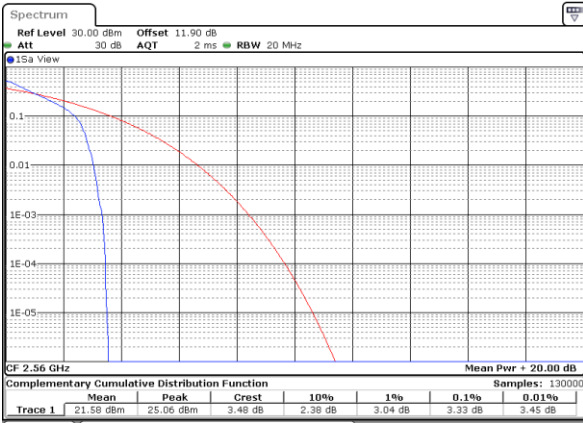
Date: 4 SEP 2017 10:17:00

Middle Channel / Full RB



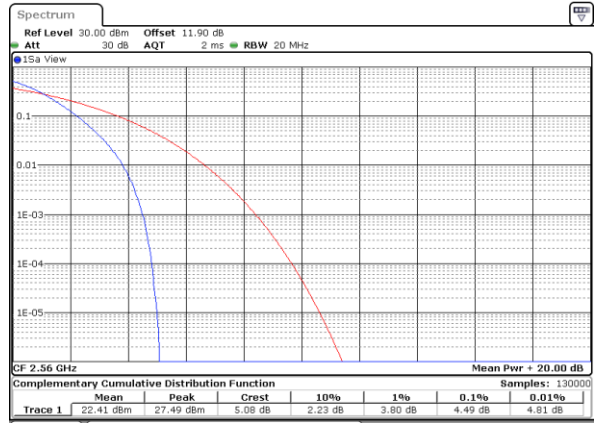
Date: 4 SEP 2017 10:17:10

Highest Channel / 1RB



Date: 4 SEP 2017 10:17:39

Highest Channel / Full RB

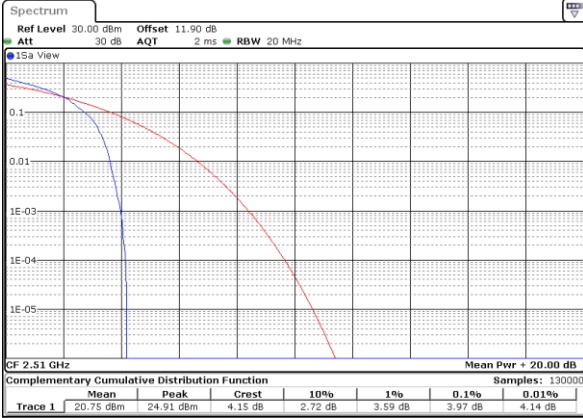


Date: 4 SEP 2017 10:17:48



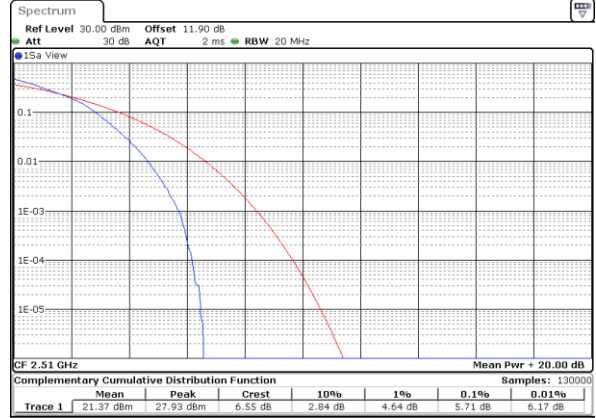
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



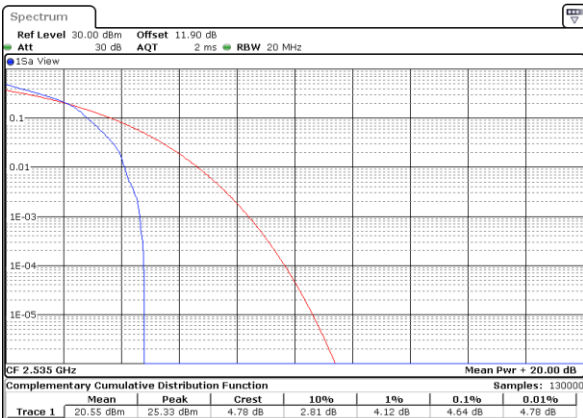
Date: 4 SEP 2017 10:14:15

Lowest Channel / Full RB



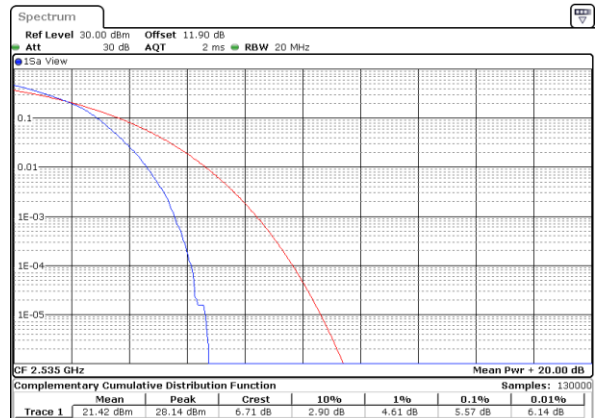
Date: 4 SEP 2017 10:15:20

Middle Channel / 1RB



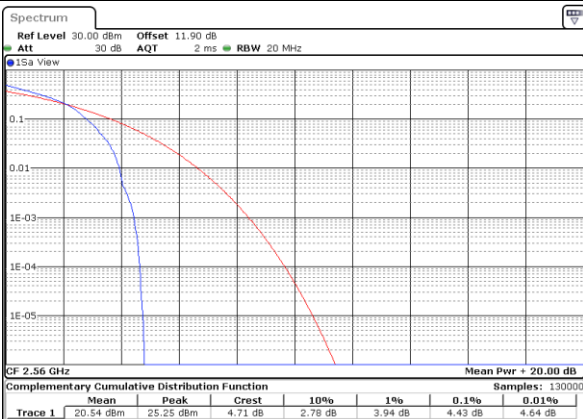
Date: 4 SEP 2017 10:15:30

Middle Channel / Full RB



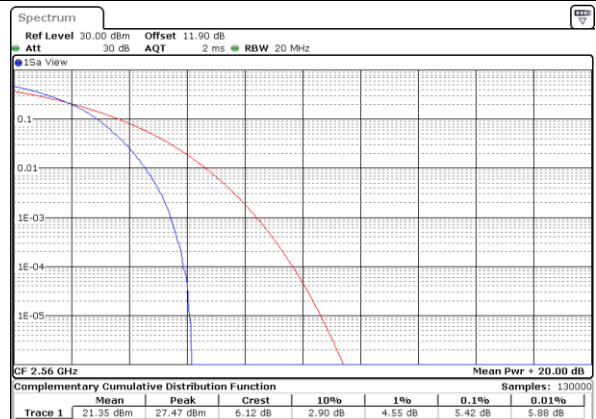
Date: 4 SEP 2017 10:15:59

Highest Channel / 1RB



Date: 4 SEP 2017 10:16:20

Highest Channel / Full RB



Date: 4 SEP 2017 10:16:32





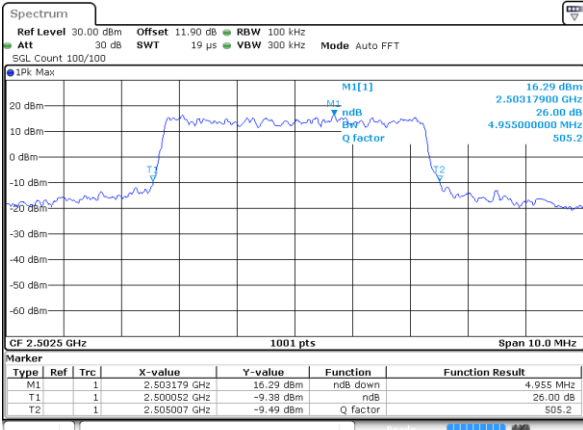
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.96	5.01	10.11	9.65	14.51	14.69	20.26	20.22
Middle CH	-	-	-	-	4.97	4.99	9.83	9.91	14.45	14.60	20.14	20.30
Highest CH	-	-	-	-	4.98	4.97	9.77	9.85	14.42	14.51	20.14	20.22



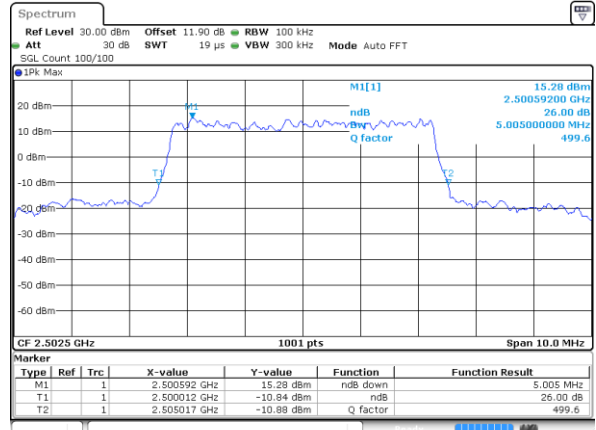
LTE Band 7

Lowest Channel / 5MHz / QPSK



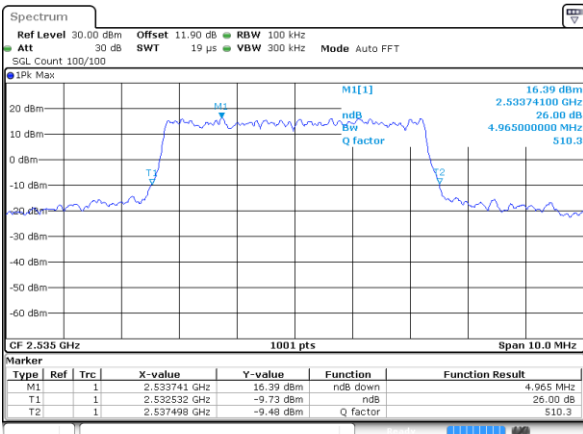
Date: 4 SEP 2017 09:01:51

Lowest Channel / 5MHz / 16QAM



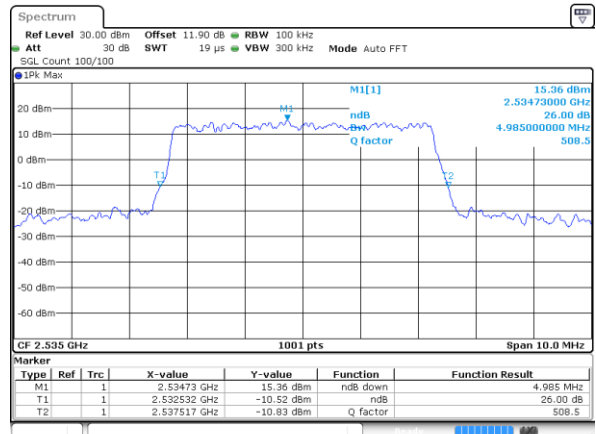
Date: 4 SEP 2017 09:02:00

Middle Channel / 5MHz / QPSK



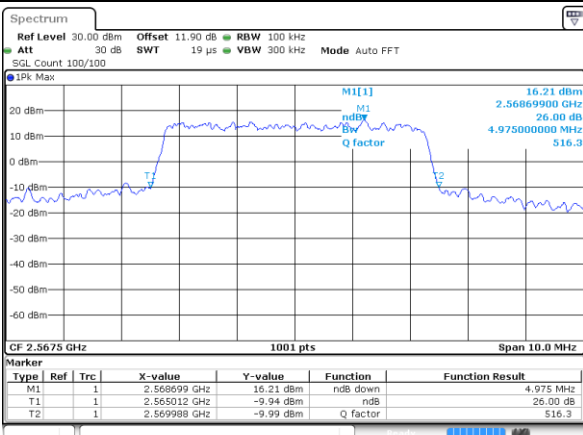
Date: 4 SEP 2017 09:08:54

Middle Channel / 5MHz / 16QAM



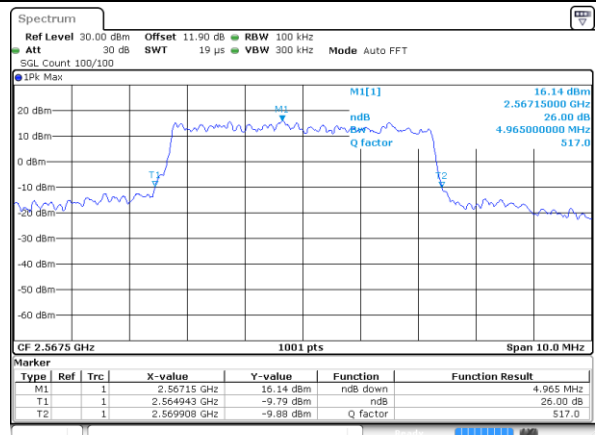
Date: 4 SEP 2017 09:09:04

Highest Channel / 5MHz / QPSK



Date: 4 SEP 2017 09:11:21

Highest Channel / 5MHz / 16QAM

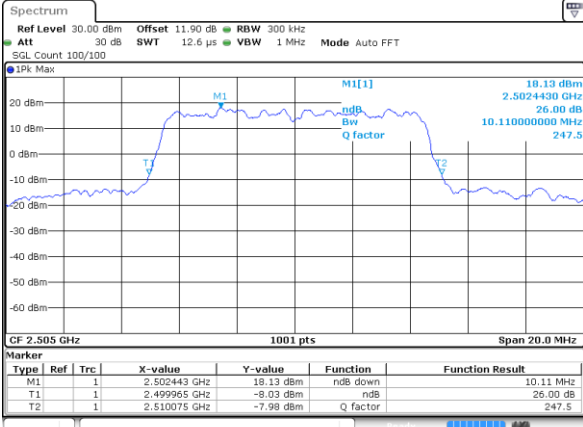


Date: 4 SEP 2017 09:11:31



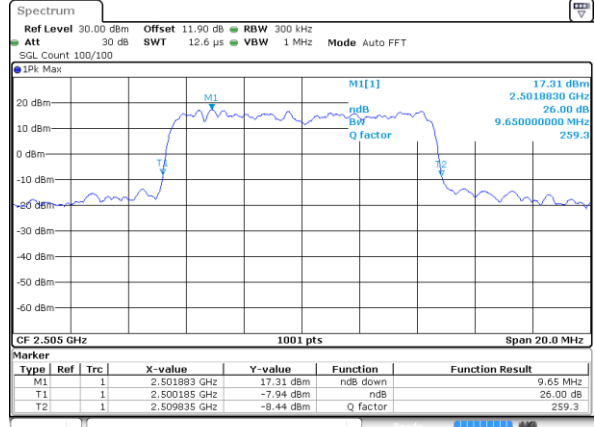
LTE Band 7

Lowest Channel / 10MHz / QPSK



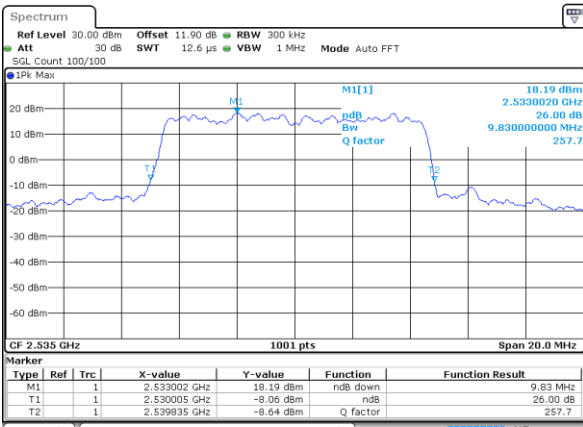
Date: 4 SEP 2017 09:18:24

Lowest Channel / 10MHz / 16QAM



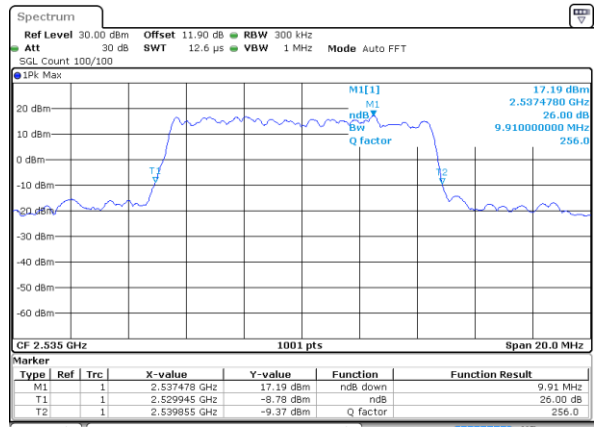
Date: 4 SEP 2017 09:18:34

Middle Channel / 10MHz / QPSK



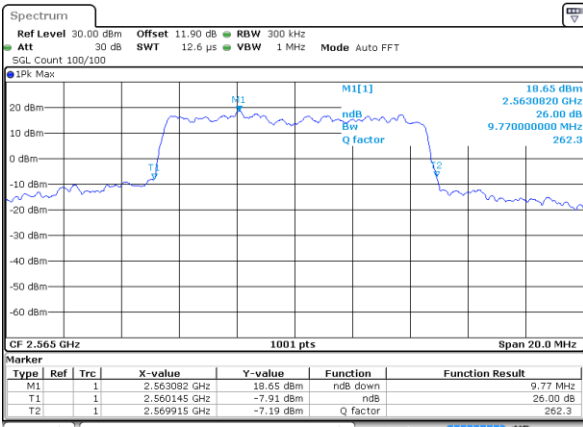
Date: 4 SEP 2017 09:28:08

Middle Channel / 10MHz / 16QAM



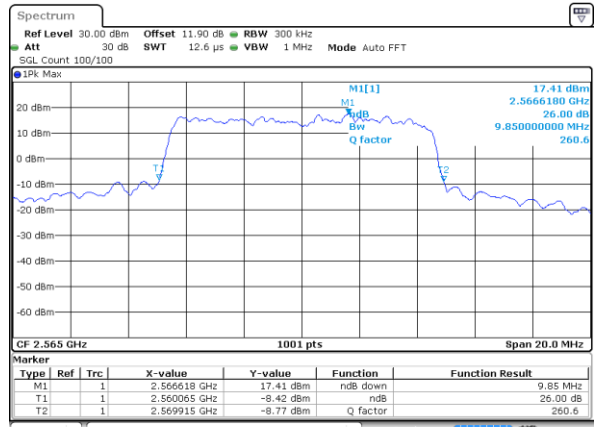
Date: 4 SEP 2017 09:28:18

Highest Channel / 10MHz / QPSK



Date: 4 SEP 2017 09:30:34

Highest Channel / 10MHz / 16QAM

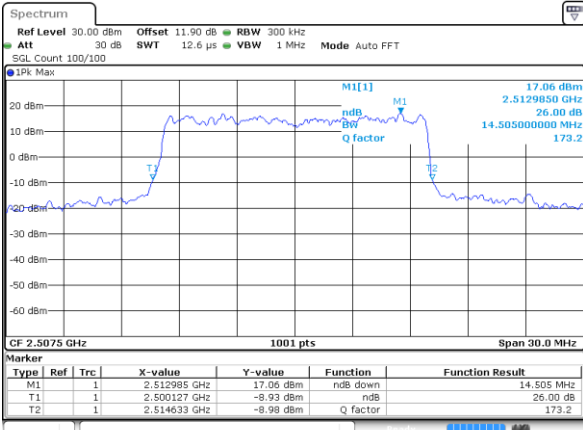


Date: 4 SEP 2017 09:30:44



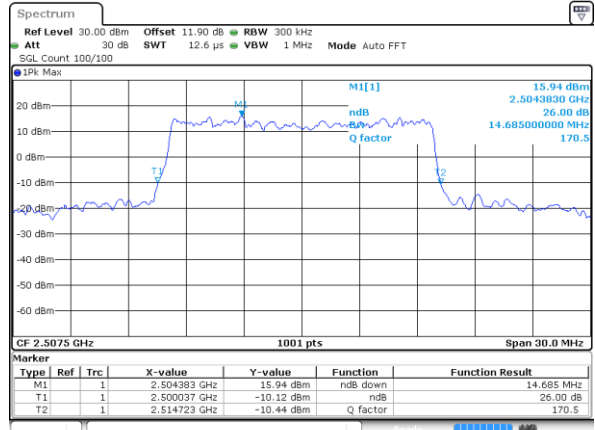
LTE Band 7

Lowest Channel / 15MHz / QPSK



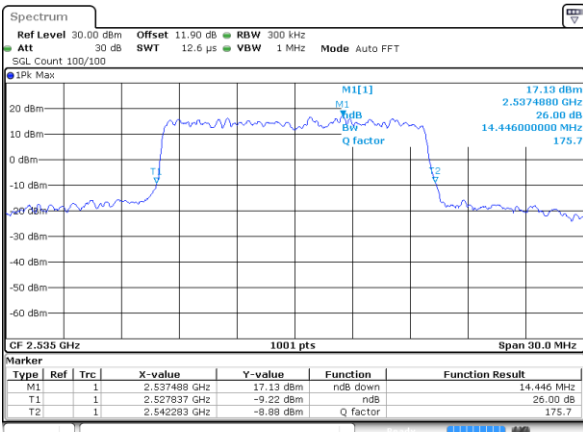
Date: 4 SEP 2017 09:37:38

Lowest Channel / 15MHz / 16QAM



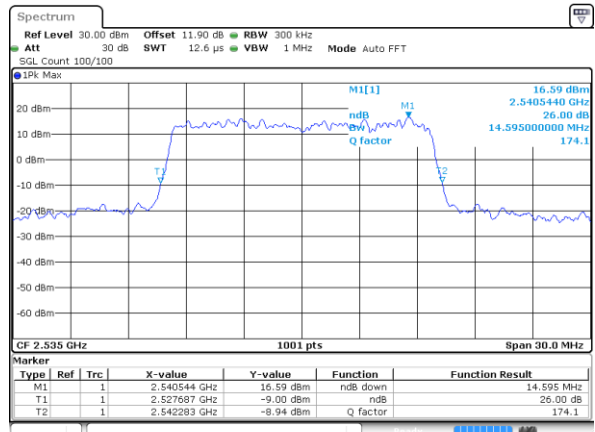
Date: 4 SEP 2017 09:37:48

Middle Channel / 15MHz / QPSK



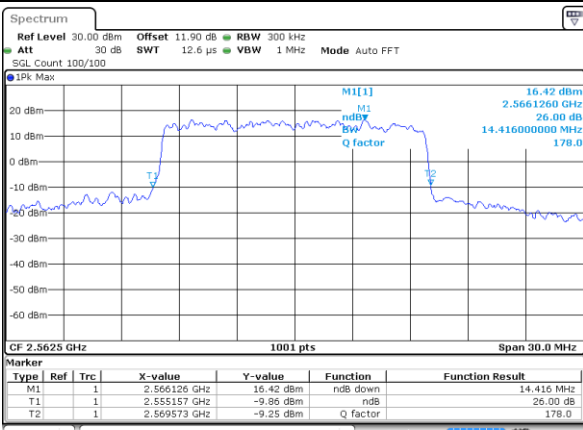
Date: 4 SEP 2017 09:44:41

Middle Channel / 15MHz / 16QAM



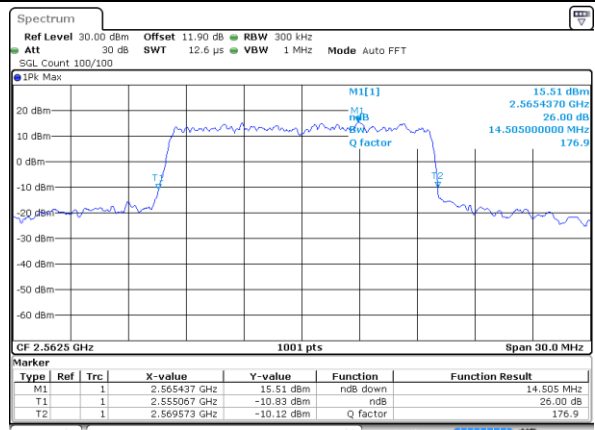
Date: 4 SEP 2017 09:44:51

Highest Channel / 15MHz / QPSK



Date: 4 SEP 2017 09:47:08

Highest Channel / 15MHz / 16QAM

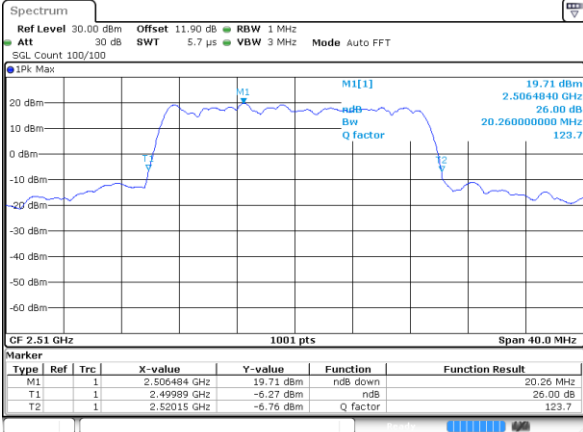


Date: 4 SEP 2017 09:47:18



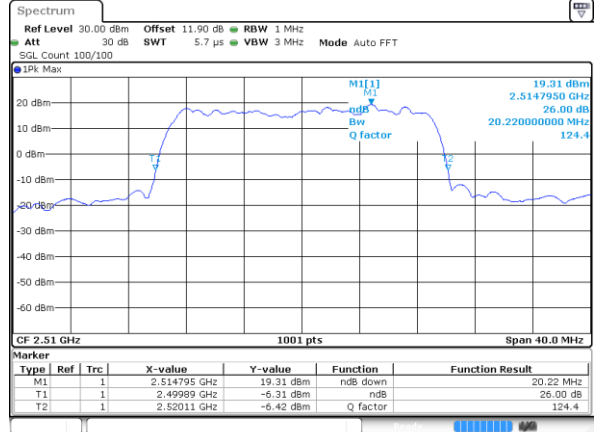
LTE Band 7

Lowest Channel / 20MHz / QPSK



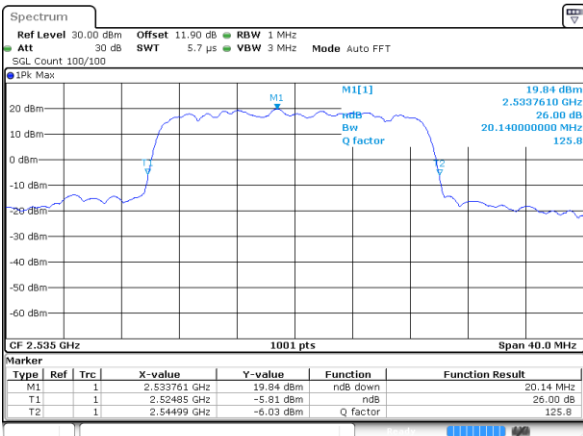
Date: 4 SEP 2017 09:54:11

Lowest Channel / 20MHz / 16QAM



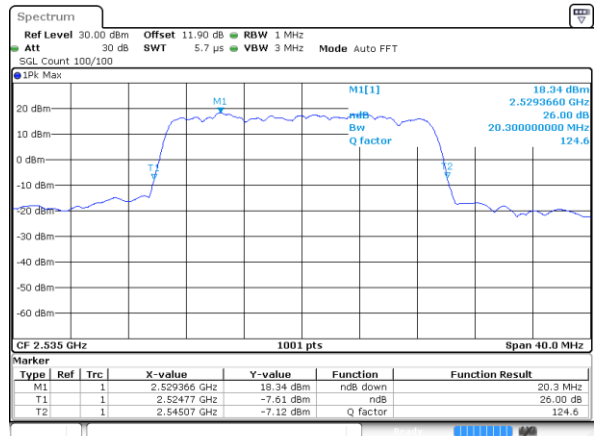
Date: 4 SEP 2017 09:54:21

Middle Channel / 20MHz / QPSK



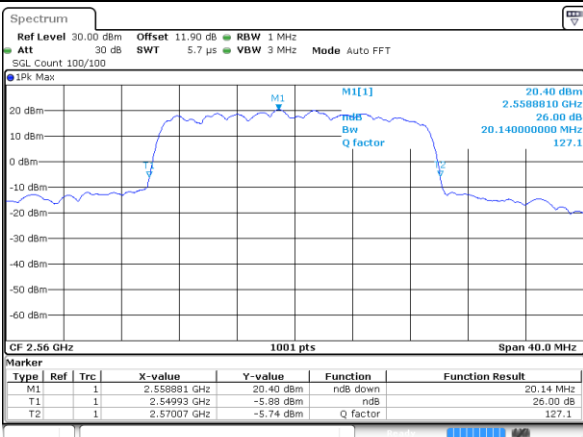
Date: 4 SEP 2017 10:01:15

Middle Channel / 20MHz / 16QAM



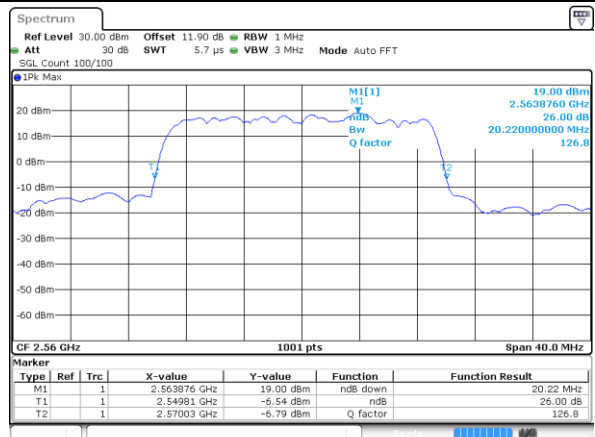
Date: 4 SEP 2017 10:01:25

Highest Channel / 20MHz / QPSK



Date: 4 SEP 2017 10:03:42

Highest Channel / 20MHz / 16QAM



Date: 4 SEP 2017 10:03:52



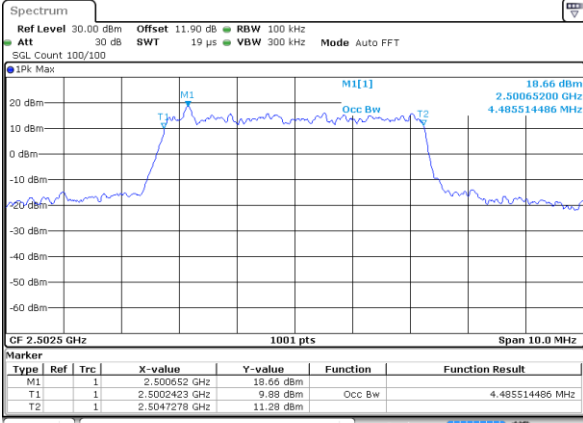
### Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.49	4.52	9.07	9.05	13.46	13.43	18.46	18.5
Middle CH	-	-	-	-	4.51	4.49	9.03	9.03	13.46	13.43	18.38	18.26
Highest CH	-	-	-	-	4.54	4.51	9.01	9.05	13.46	13.4	18.3	18.22



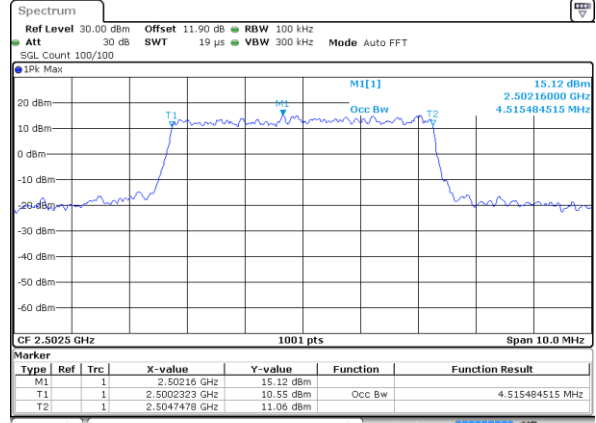
LTE Band 7

Lowest Channel / 5MHz / QPSK



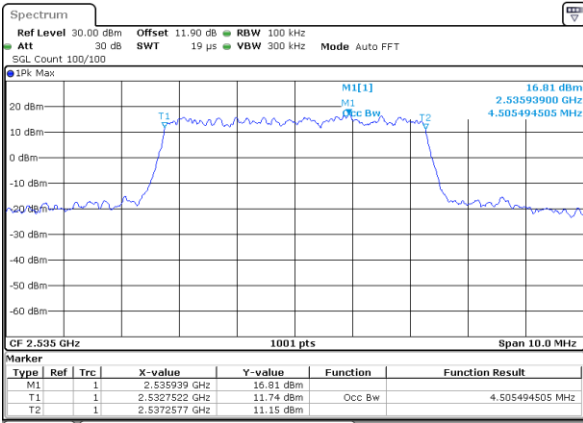
Date: 4 SEP 2017 09:01:30

Lowest Channel / 5MHz / 16QAM



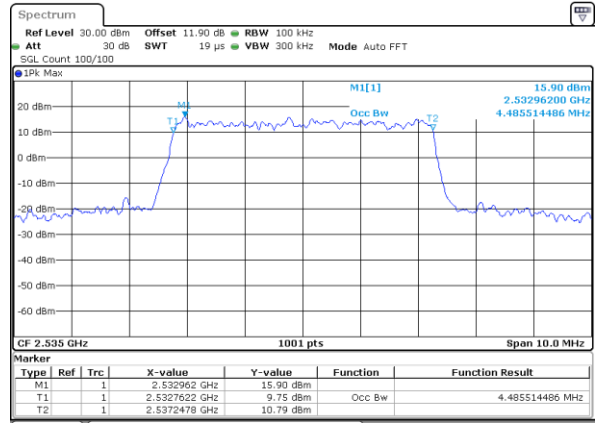
Date: 4 SEP 2017 09:01:40

Middle Channel / 5MHz / QPSK



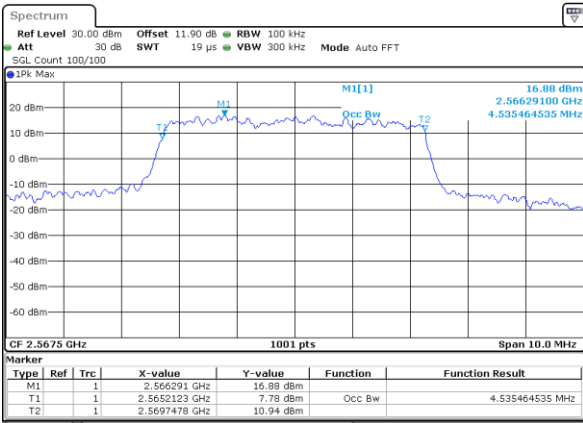
Date: 4 SEP 2017 09:08:34

Middle Channel / 5MHz / 16QAM



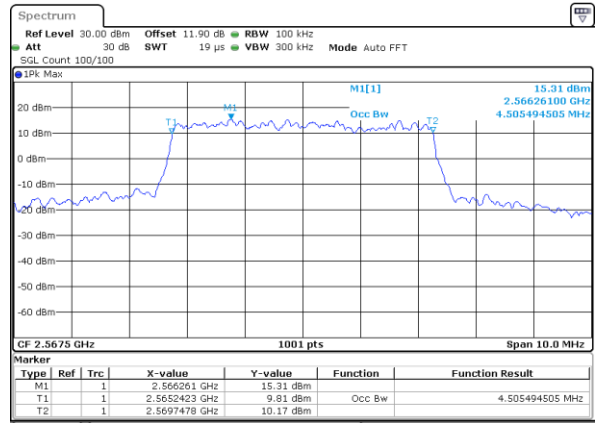
Date: 4 SEP 2017 09:08:44

Highest Channel / 5MHz / QPSK



Date: 4 SEP 2017 09:11:01

Highest Channel / 5MHz / 16QAM

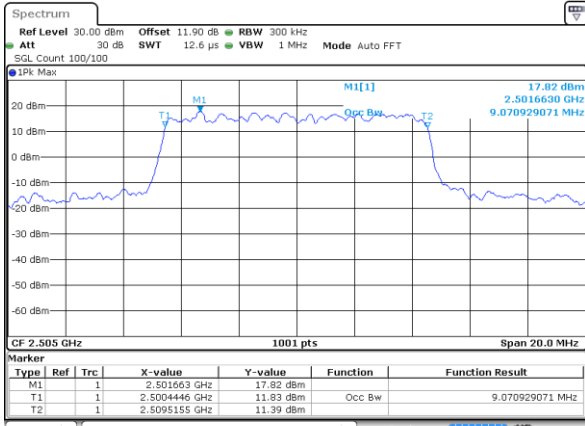


Date: 4 SEP 2017 09:11:11



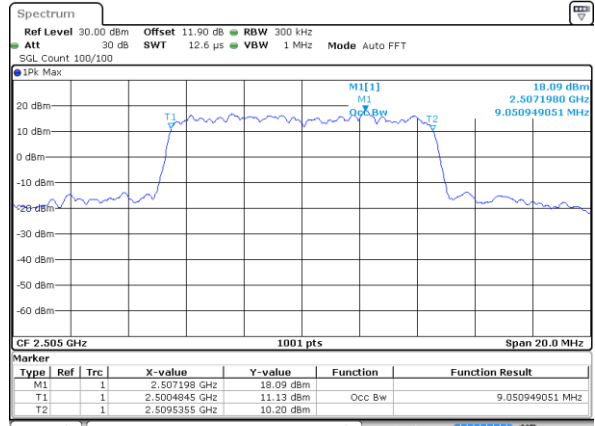
LTE Band 7

Lowest Channel / 10MHz / QPSK



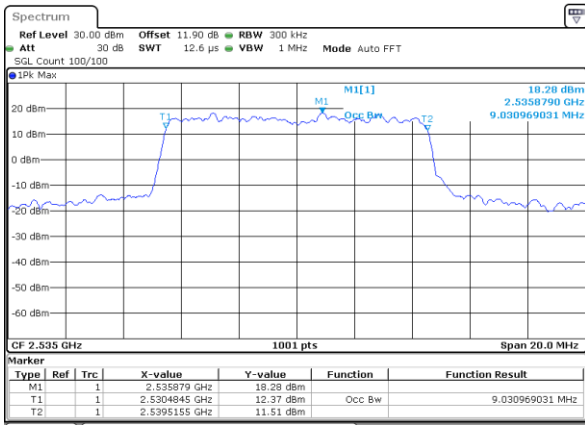
Date: 4 SEP 2017 09:18:04

Lowest Channel / 10MHz / 16QAM



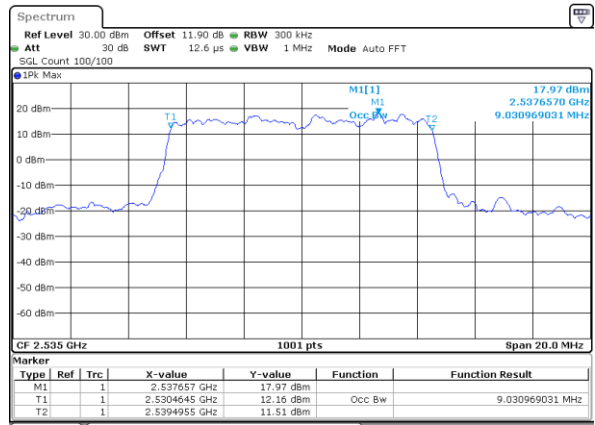
Date: 4 SEP 2017 09:18:14

Middle Channel / 10MHz / QPSK



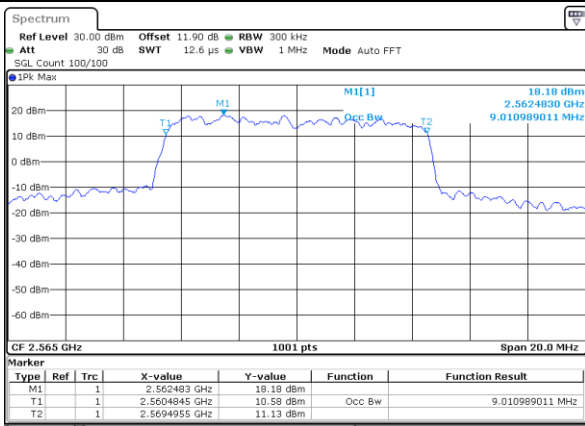
Date: 4 SEP 2017 09:27:48

Middle Channel / 10MHz / 16QAM



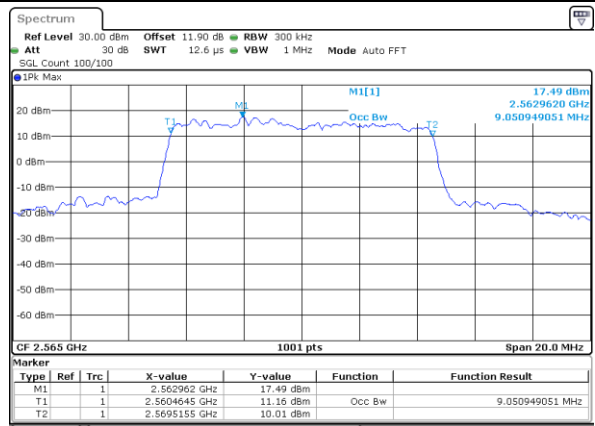
Date: 4 SEP 2017 09:27:58

Highest Channel / 10MHz / QPSK



Date: 4 SEP 2017 09:30:14

Highest Channel / 10MHz / 16QAM



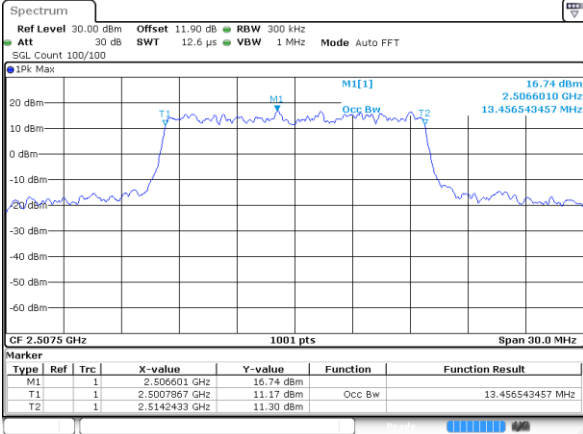
Date: 4 SEP 2017 09:30:24





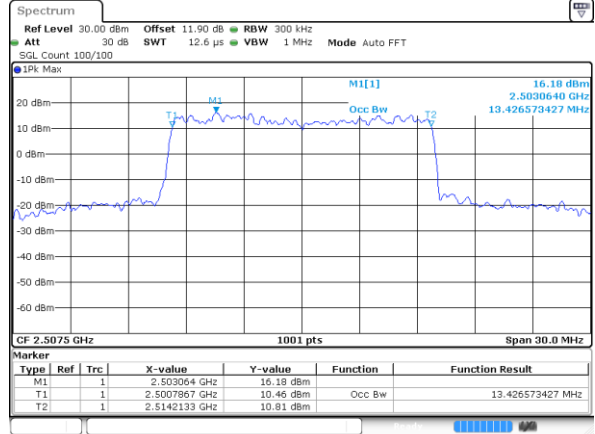
LTE Band 7

Lowest Channel / 15MHz / QPSK



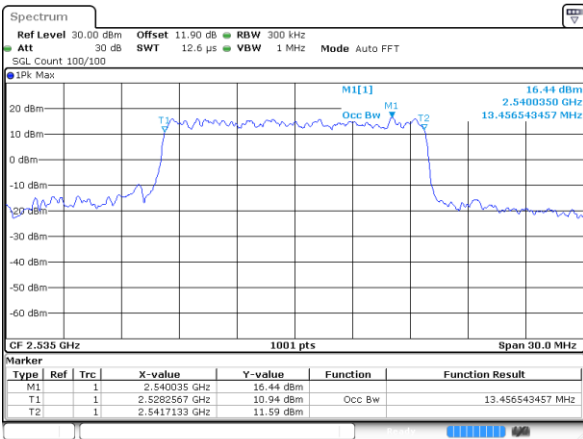
Date: 4 SEP 2017 09:37:18

Lowest Channel / 15MHz / 16QAM



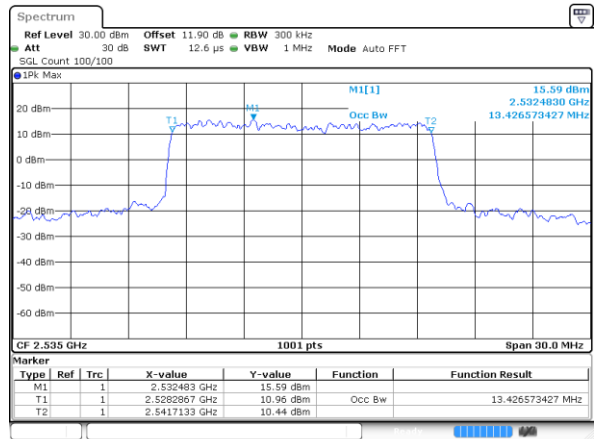
Date: 4 SEP 2017 09:37:28

Middle Channel / 15MHz / QPSK



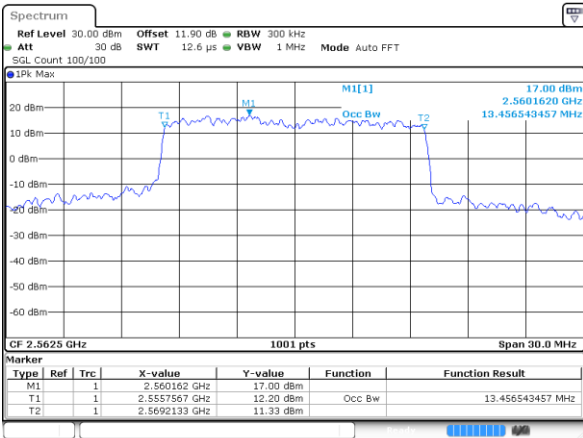
Date: 4 SEP 2017 09:44:21

Middle Channel / 15MHz / 16QAM



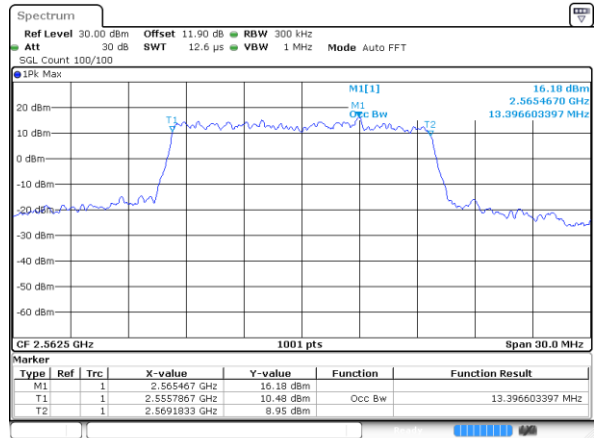
Date: 4 SEP 2017 09:44:31

Highest Channel / 15MHz / QPSK



Date: 4 SEP 2017 09:46:48

Highest Channel / 15MHz / 16QAM



Date: 4 SEP 2017 09:46:58