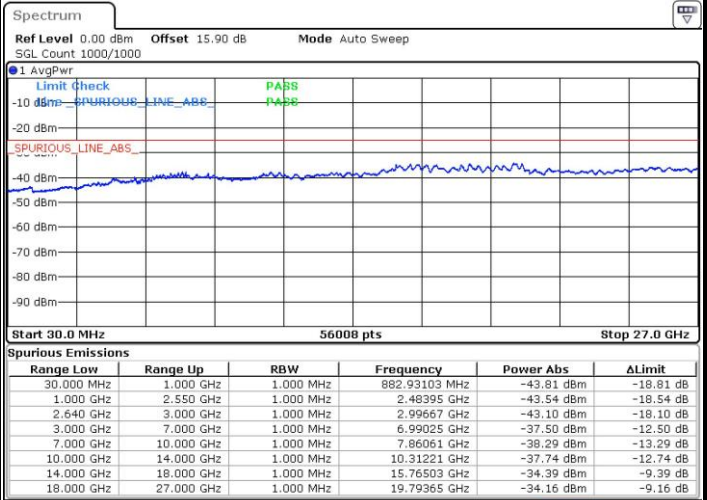
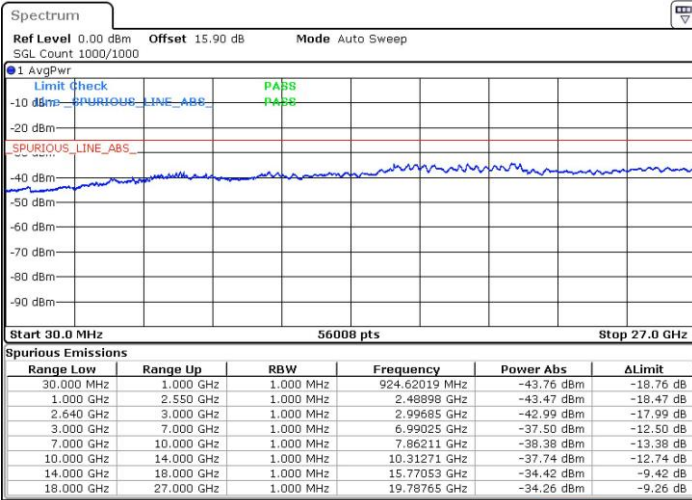




LTE Band 38 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



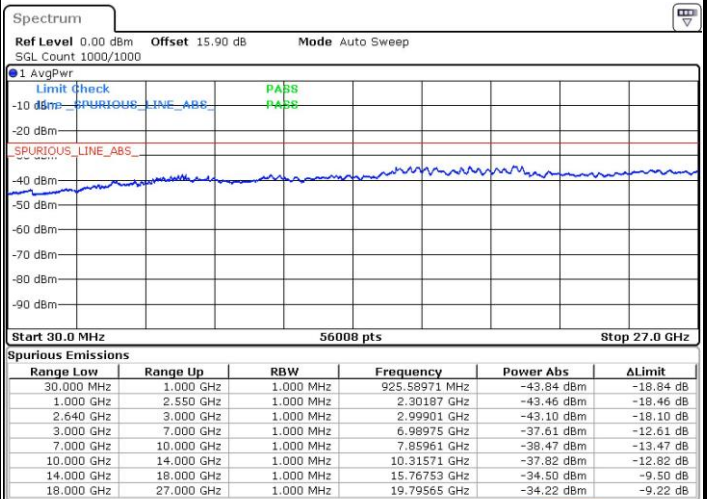
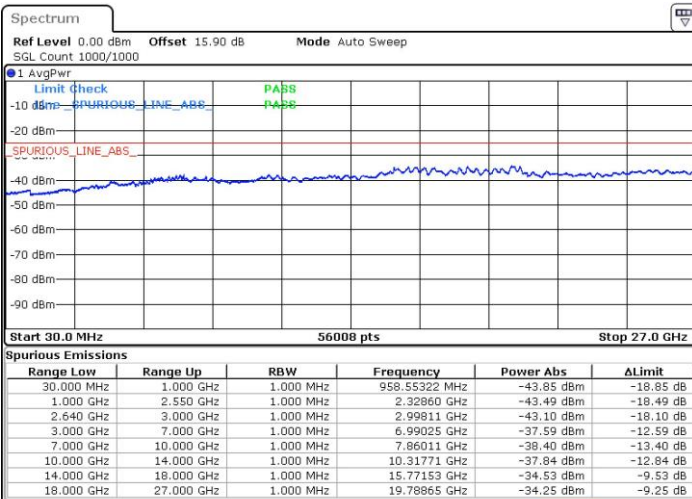
Date: 1.MAR.2017 13:52:55

Date: 1.MAR.2017 13:45:47

LTE Band 38 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



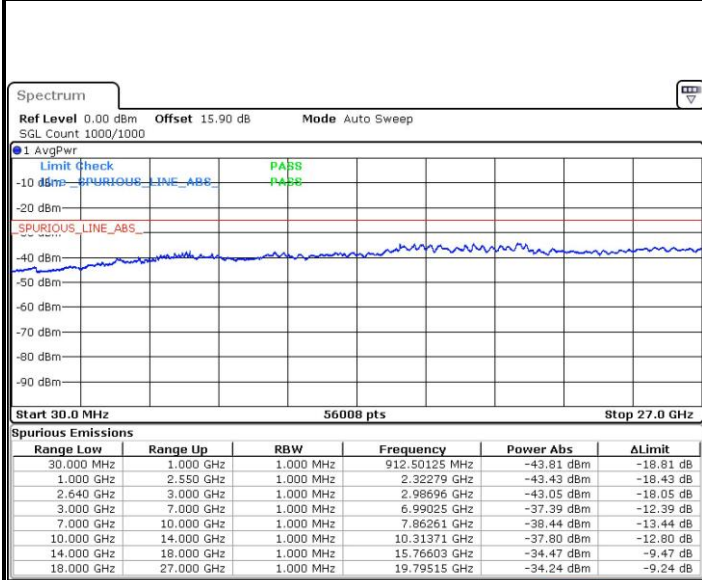
Date: 1.MAR.2017 13:59:47

Date: 1.MAR.2017 14:07:16



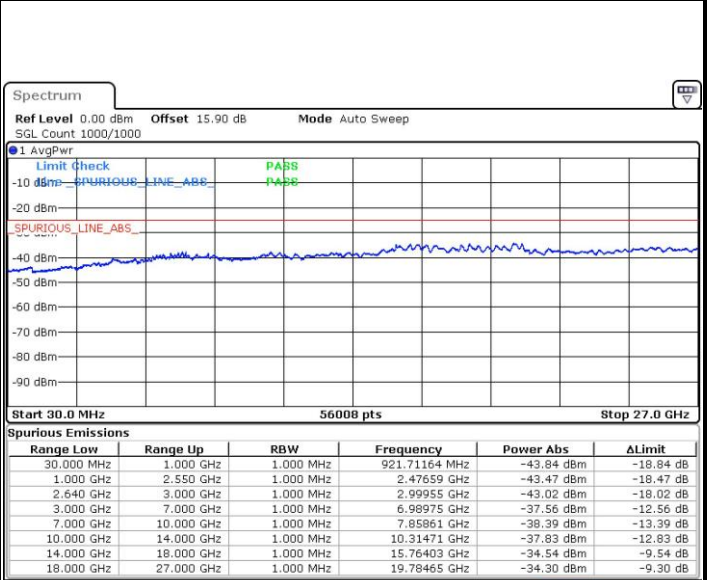
LTE Band 38 / 10MHz

Middle Channel / QPSK



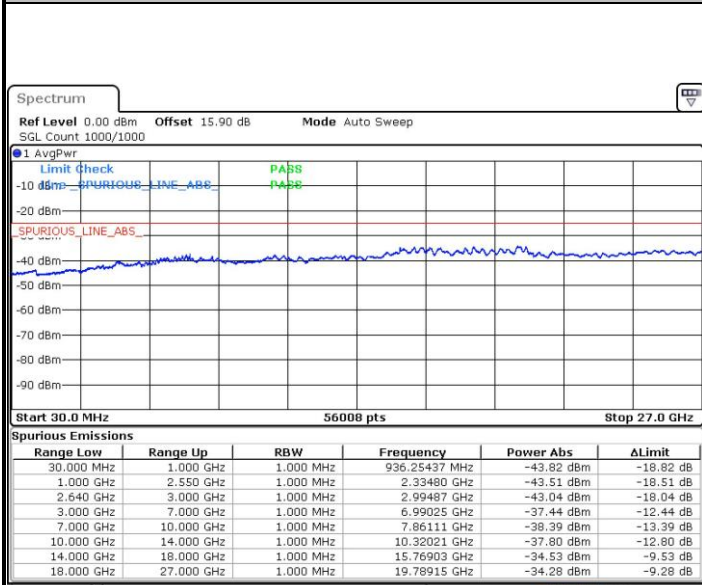
Date: 1.MAR.2017 14:34:38

Middle Channel / 16QAM



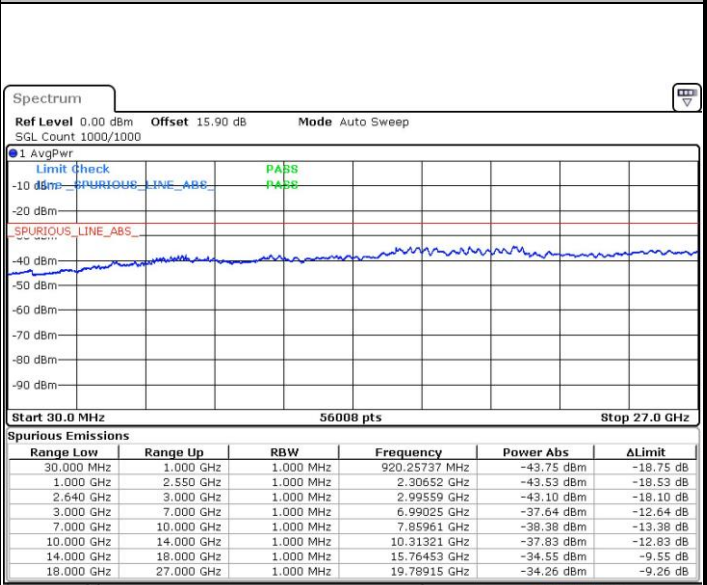
Date: 1.MAR.2017 14:14:48

Highest Channel / QPSK



Date: 1.MAR.2017 14:42:01

Highest Channel / 16QAM



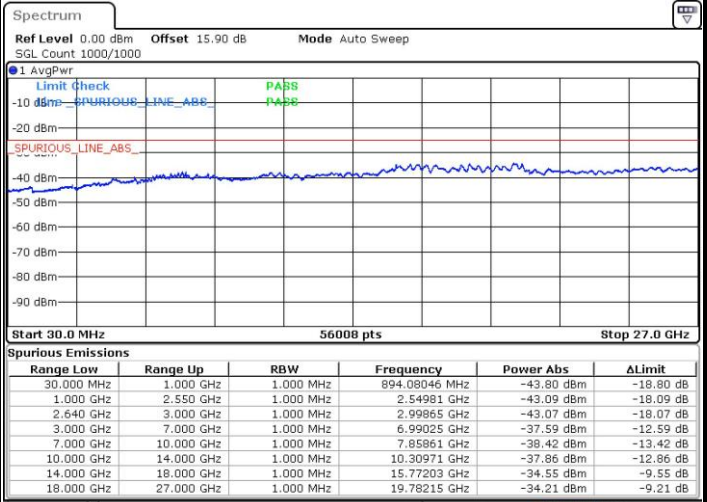
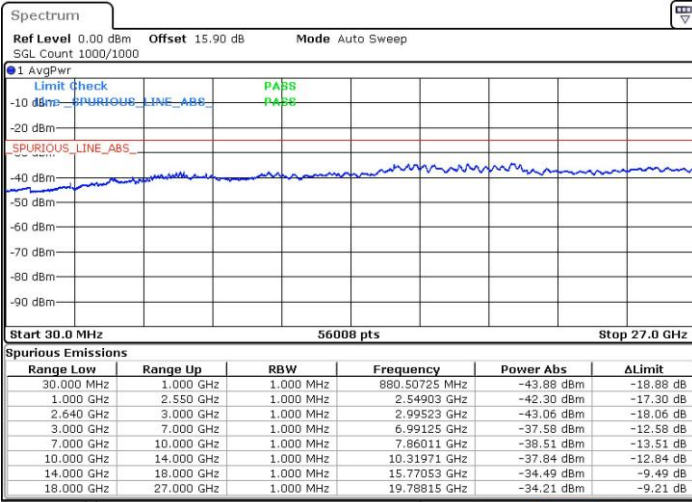
Date: 1.MAR.2017 14:53:50



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

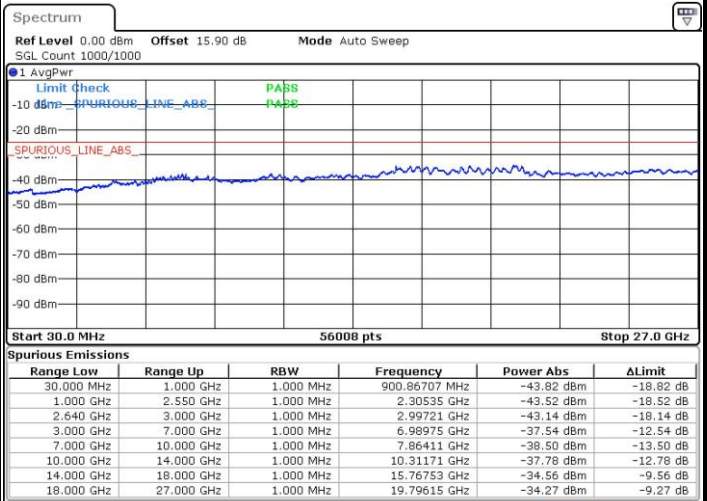
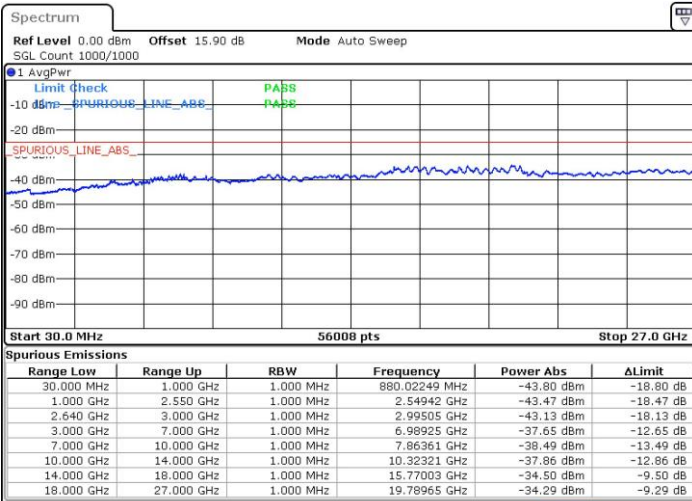


Date: 1.MAR.2017 15:08:25

Date: 1.MAR.2017 15:02:08

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 1.MAR.2017 15:15:29

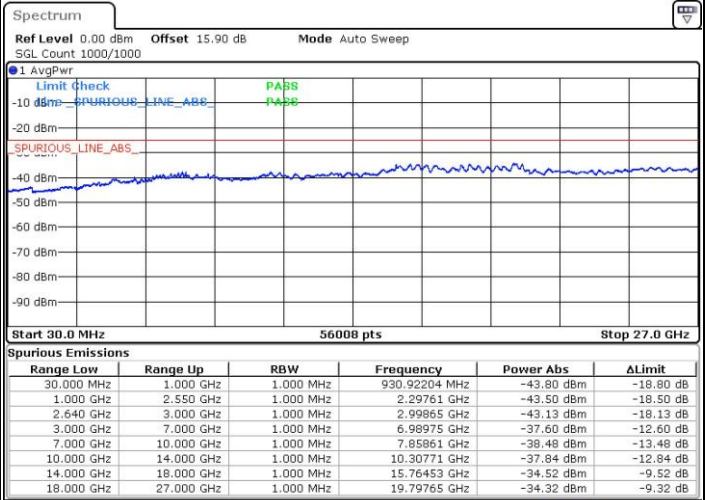
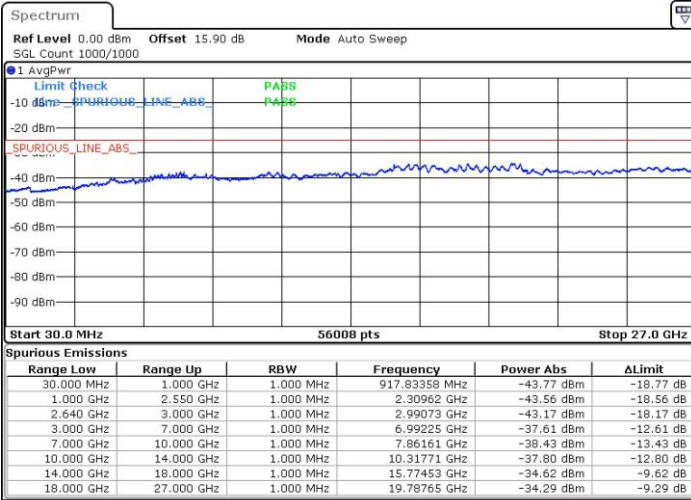
Date: 1.MAR.2017 15:22:18



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



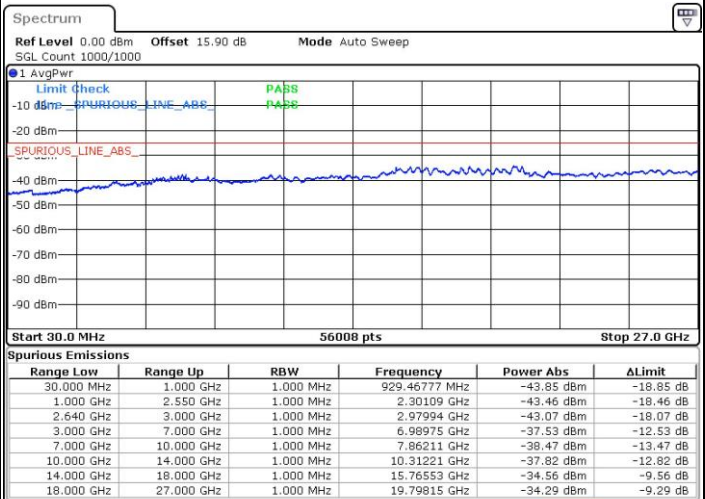
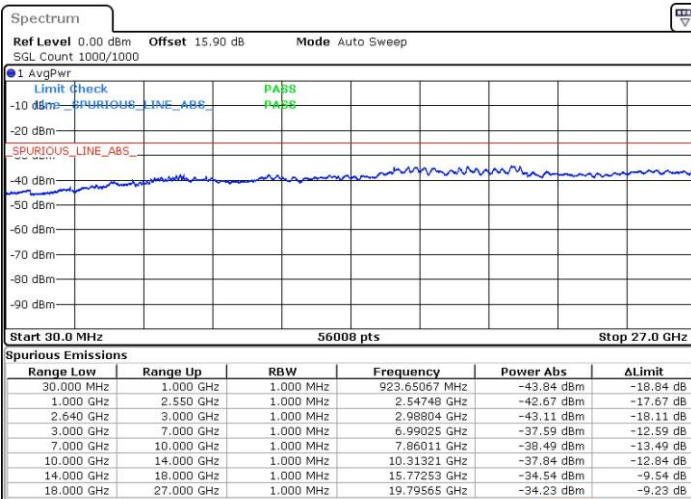
Date: 1.MAR.2017 15:36:00

Date: 1.MAR.2017 15:29:43

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 1.MAR.2017 15:42:21

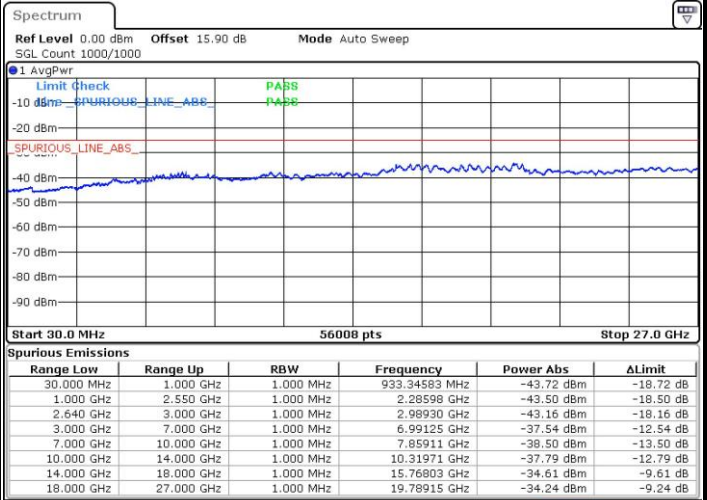
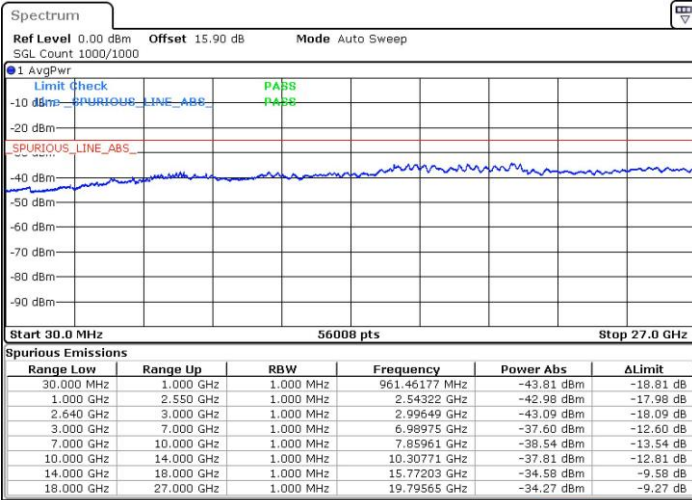
Date: 1.MAR.2017 15:48:40



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

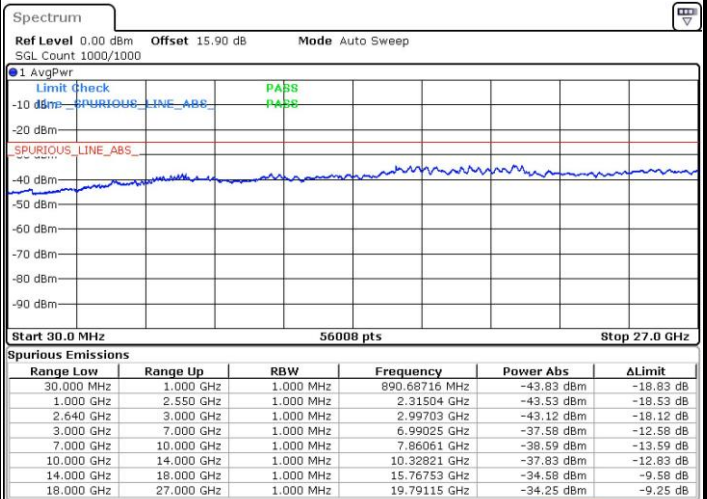
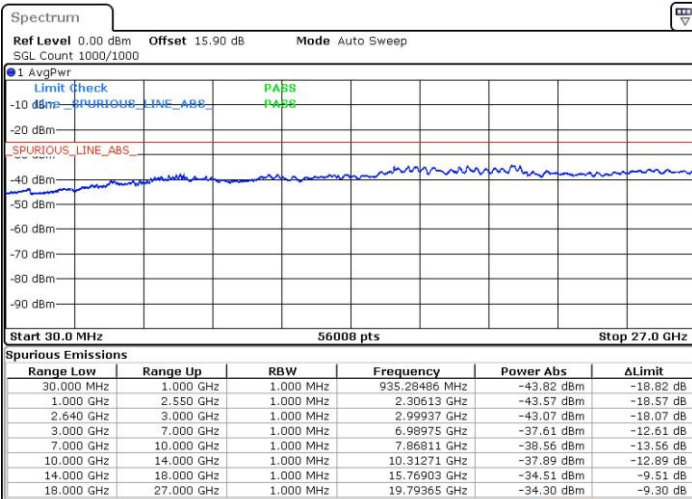


Date: 1.MAR.2017 16:02:41

Date: 1.MAR.2017 15:55:00

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.MAR.2017 16:09:36

Date: 1.MAR.2017 16:15:55



**Frequency Stability**

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

**Note:**

1. Normal Voltage =3.9 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 41

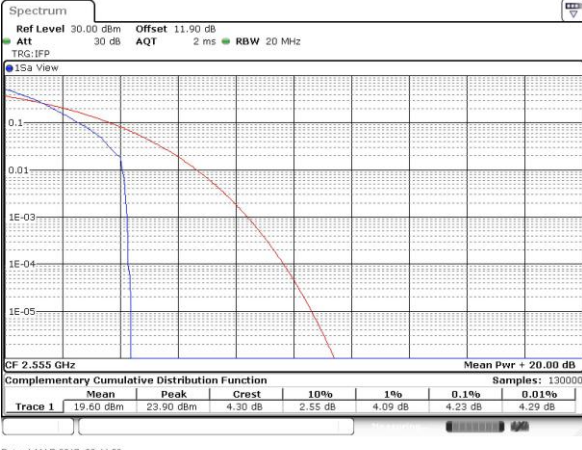
## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	4.75	5.19	5.77	<b>PASS</b>
Middle CH	4.93	5.07	5.54	6.09	
Highest CH	4.84	5.1	5.45	6.09	



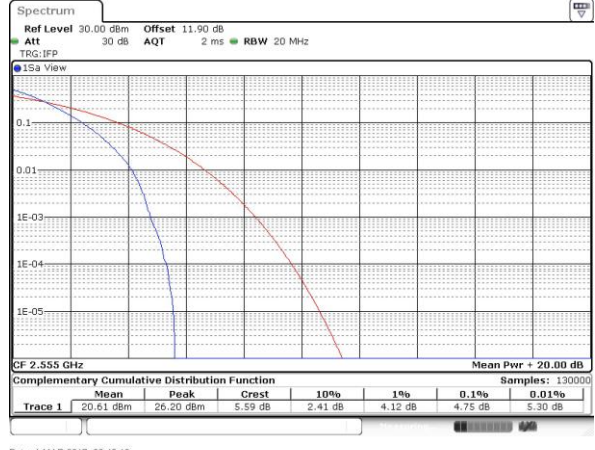
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



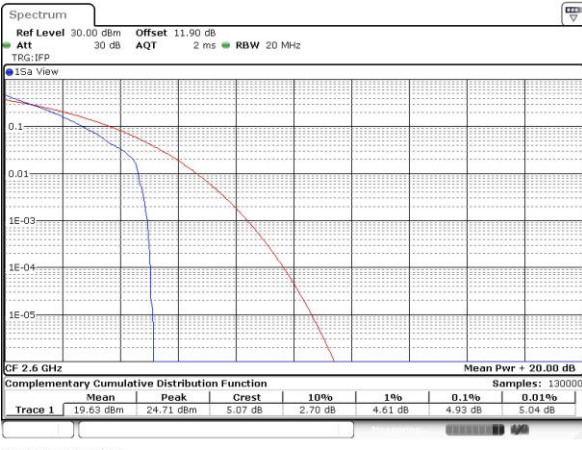
Date: 1 MAR 2017 22:44:50

Lowest Channel / Full RB



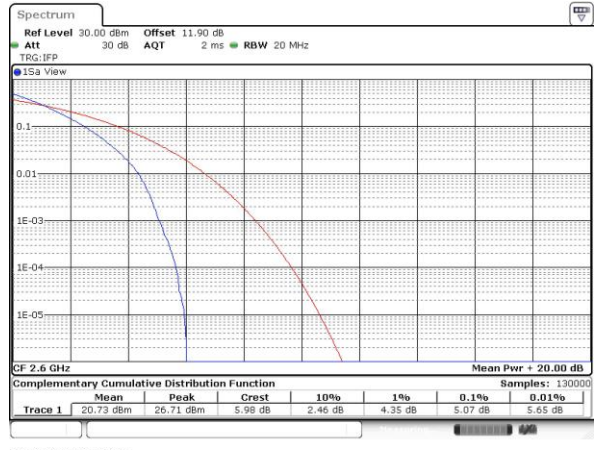
Date: 1 MAR 2017 22:45:12

Middle Channel / 1RB



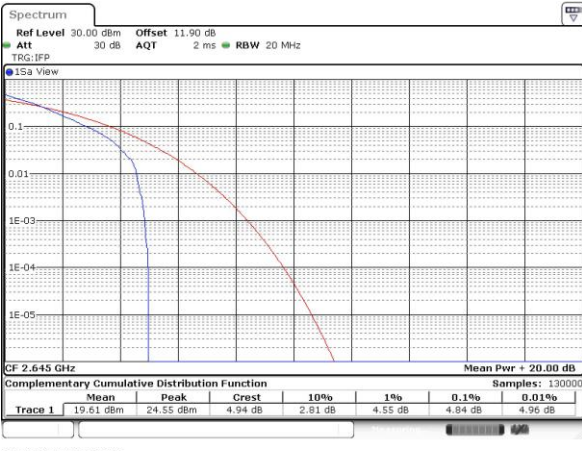
Date: 1 MAR 2017 22:46:34

Middle Channel / Full RB



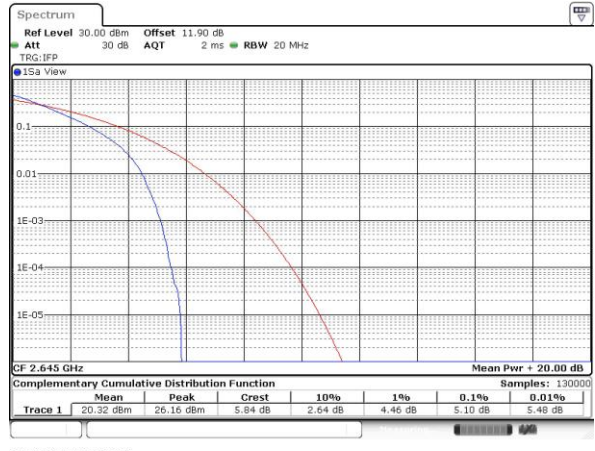
Date: 1 MAR 2017 22:46:15

Highest Channel / 1RB



Date: 1 MAR 2017 22:47:40

Highest Channel / Full RB

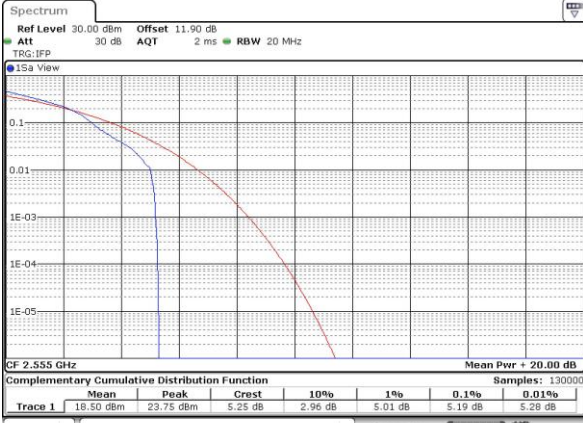


Date: 1 MAR 2017 22:47:59



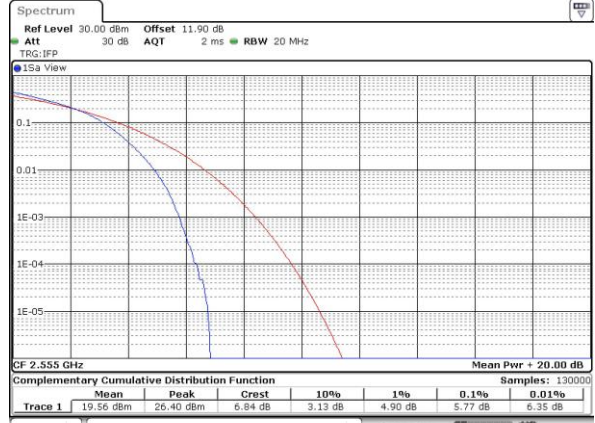
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



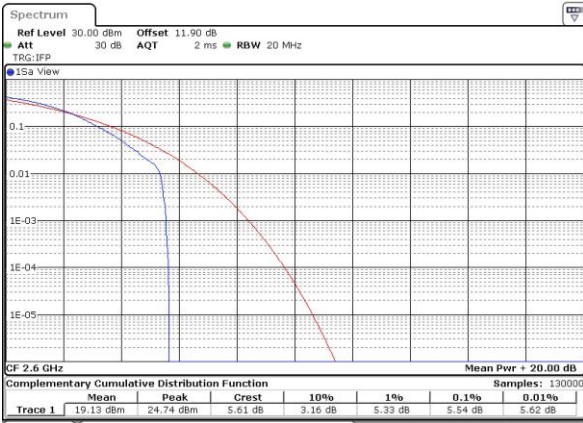
Date: 1 MAR 2017 22:44:33

Lowest Channel / Full RB



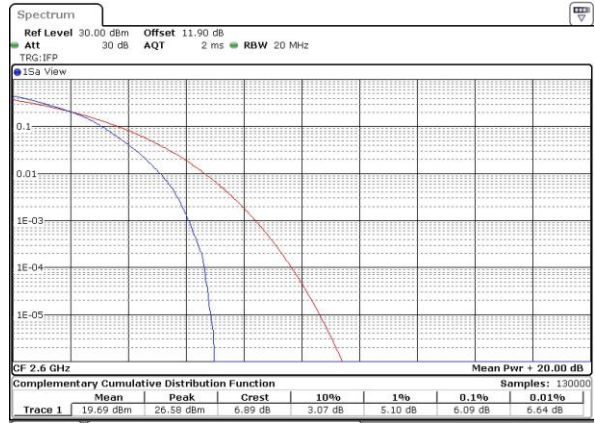
Date: 1 MAR 2017 22:45:33

Middle Channel / 1RB



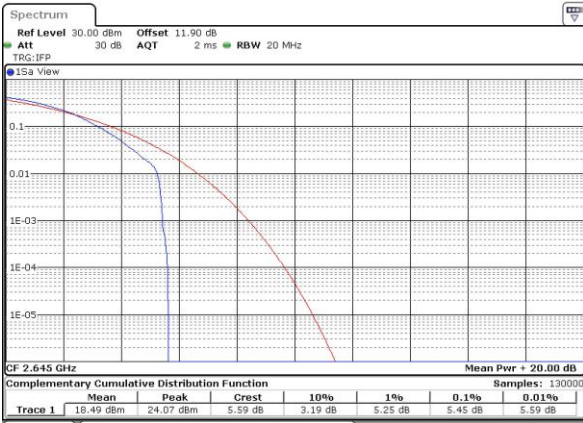
Date: 1 MAR 2017 22:46:56

Middle Channel / Full RB



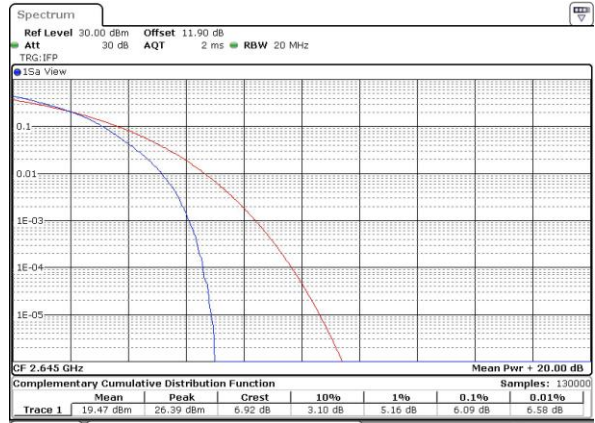
Date: 1 MAR 2017 22:46:55

Highest Channel / 1RB



Date: 1 MAR 2017 22:47:19

Highest Channel / Full RB



Date: 1 MAR 2017 22:48:18



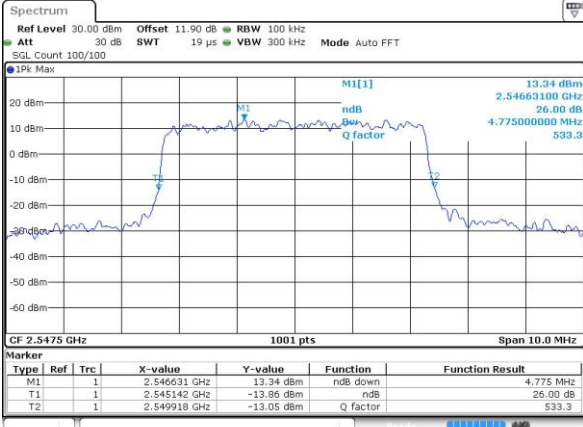
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.775	4.865	9.61	9.59	14.356	14.176	20.14	20.14
Middle CH	-	-	-	-	4.865	4.855	9.71	9.65	14.176	14.356	20.14	20.14
Highest CH	-	-	-	-	4.785	4.755	9.75	9.63	14.176	14.356	20.14	20.1



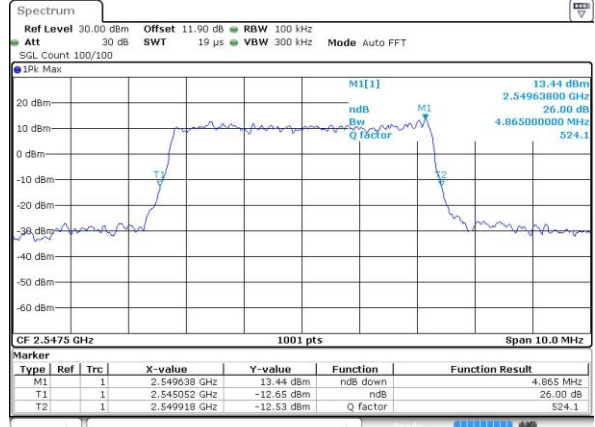
LTE Band 41

Lowest Channel / 5MHz / QPSK



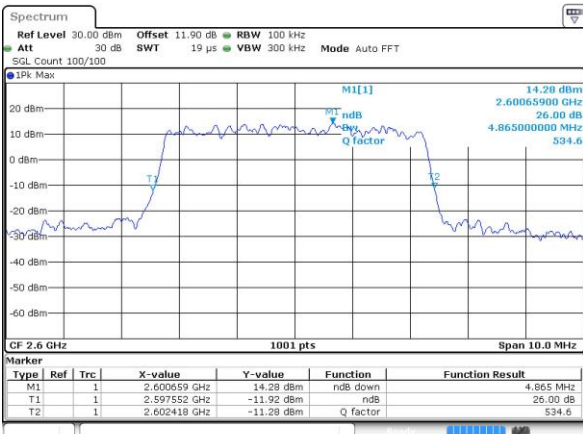
Date: 1 MAR 2017 19:34:52

Lowest Channel / 5MHz / 16QAM



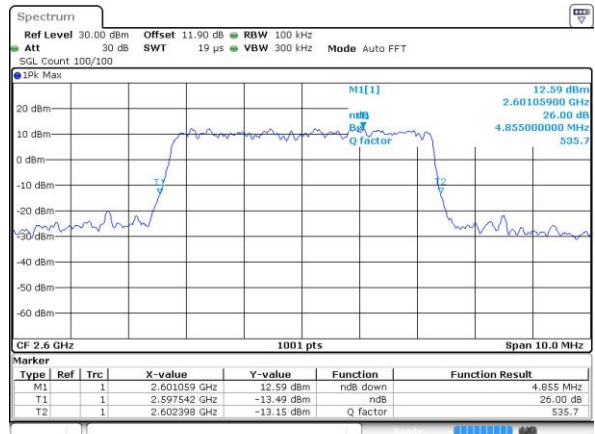
Date: 1 MAR 2017 19:35:02

Middle Channel / 5MHz / QPSK



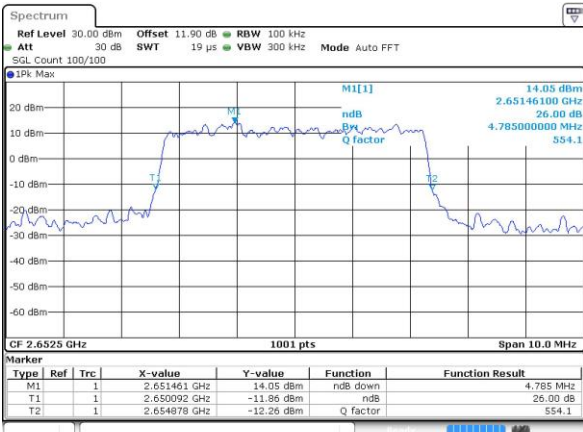
Date: 1 MAR 2017 19:35:33

Middle Channel / 5MHz / 16QAM



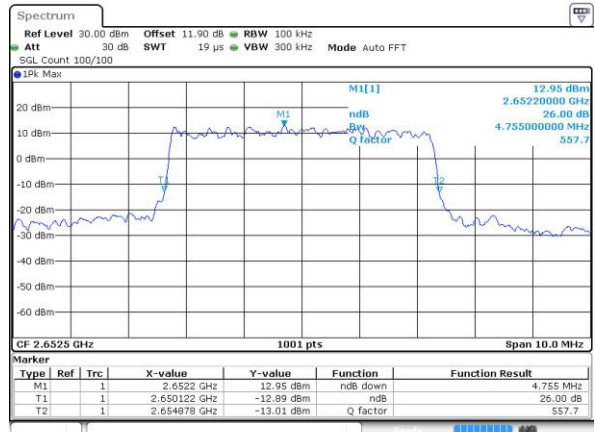
Date: 1 MAR 2017 19:35:44

Highest Channel / 5MHz / QPSK



Date: 1 MAR 2017 19:36:15

Highest Channel / 5MHz / 16QAM

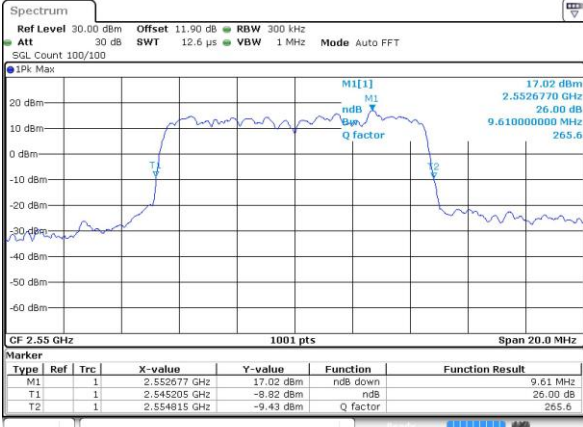


Date: 1 MAR 2017 19:36:25



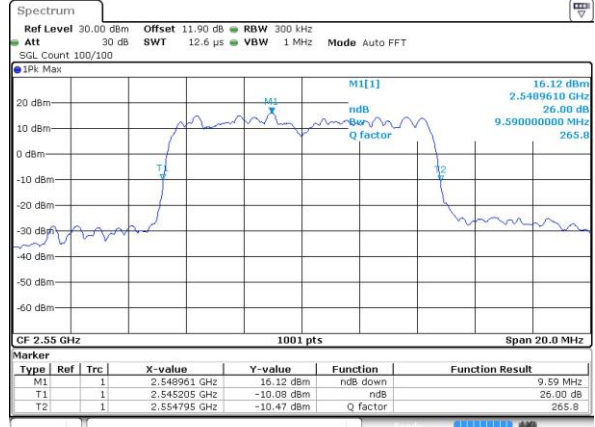
LTE Band 41

Lowest Channel / 10MHz / QPSK



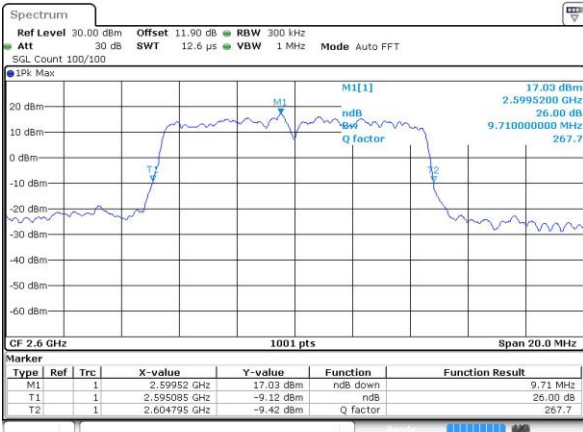
Date: 1 MAR 2017 19:36:57

Lowest Channel / 10MHz / 16QAM



Date: 1 MAR 2017 19:37:07

Middle Channel / 10MHz / QPSK



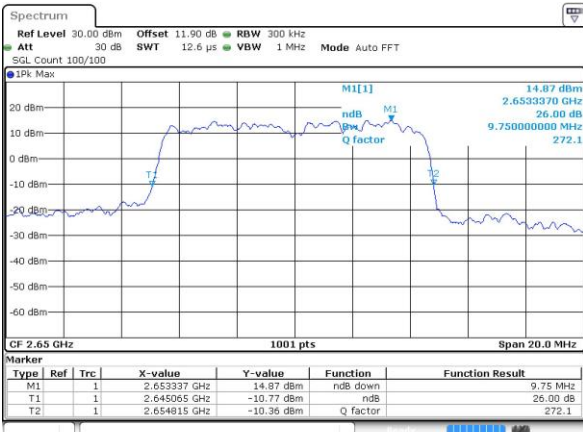
Date: 1 MAR 2017 19:37:38

Middle Channel / 10MHz / 16QAM



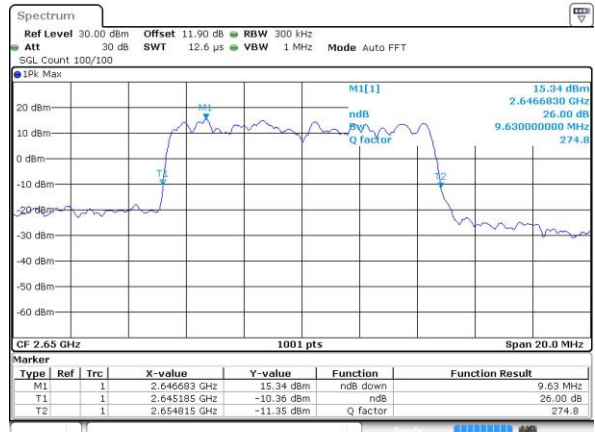
Date: 1 MAR 2017 19:37:48

Highest Channel / 10MHz / QPSK



Date: 1 MAR 2017 19:38:20

Highest Channel / 10MHz / 16QAM

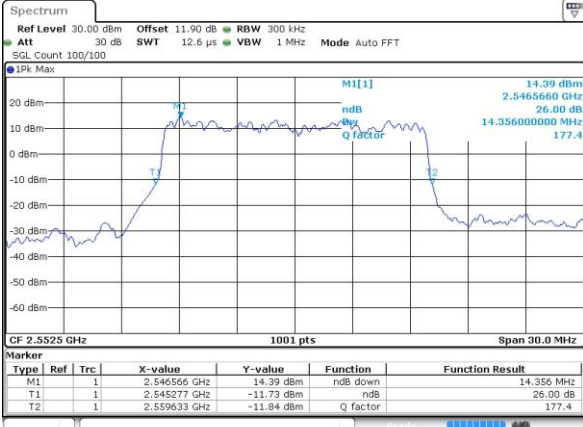


Date: 1 MAR 2017 19:38:30



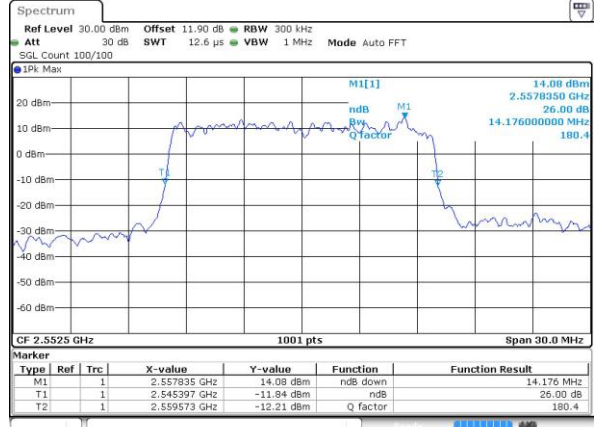
LTE Band 41

Lowest Channel / 15MHz / QPSK



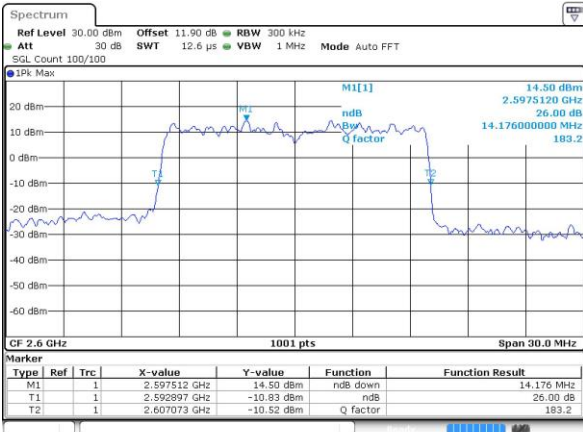
Date: 1 MAR 2017 19:39:01

Lowest Channel / 15MHz / 16QAM



Date: 1 MAR 2017 19:39:12

Middle Channel / 15MHz / QPSK



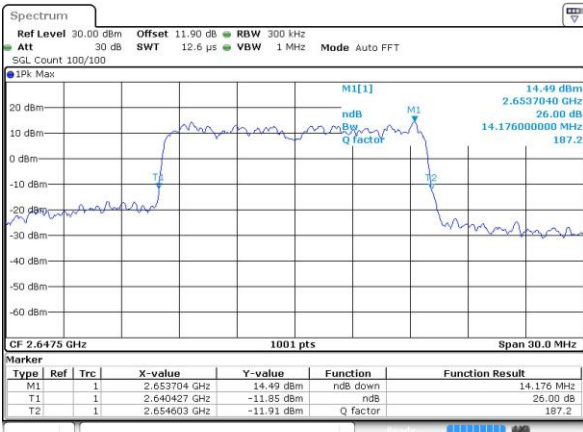
Date: 1 MAR 2017 19:39:43

Middle Channel / 15MHz / 16QAM



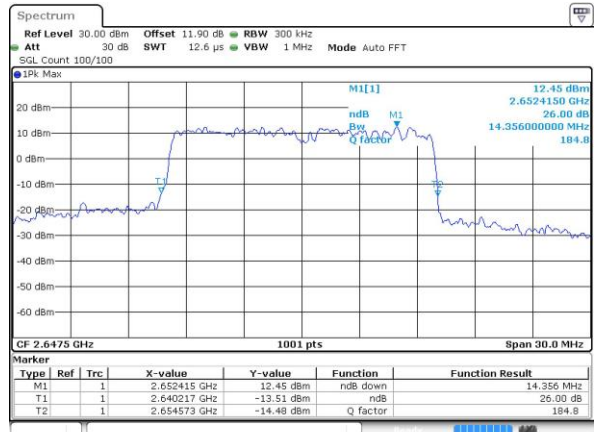
Date: 1 MAR 2017 19:39:53

Highest Channel / 15MHz / QPSK



Date: 1 MAR 2017 19:40:24

Highest Channel / 15MHz / 16QAM

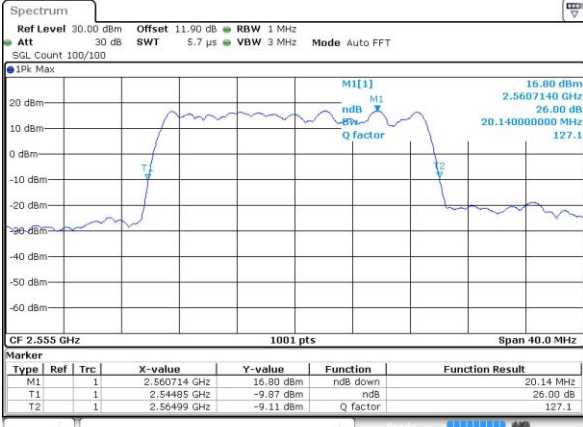


Date: 1 MAR 2017 19:40:35



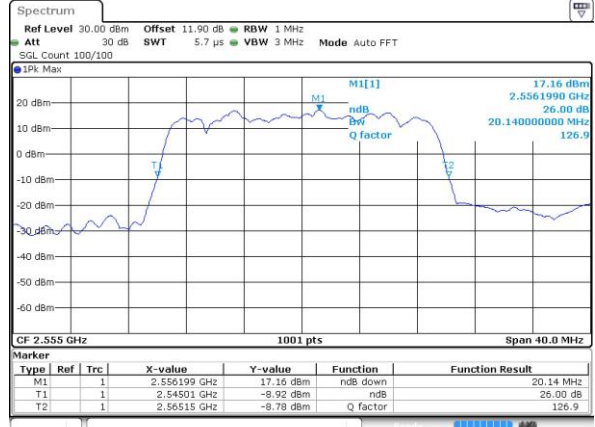
LTE Band 41

Lowest Channel / 20MHz / QPSK



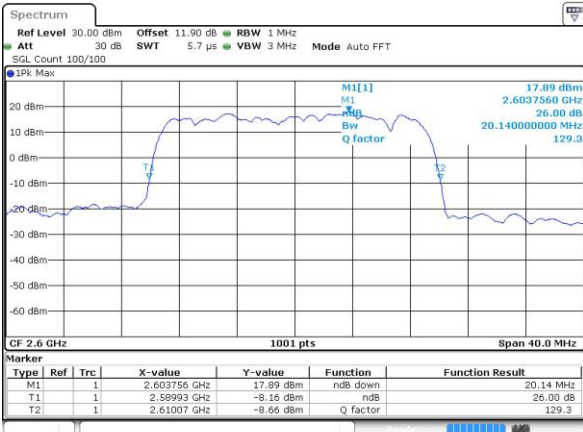
Date: 1 MAR 2017 19:41:06

Lowest Channel / 20MHz / 16QAM



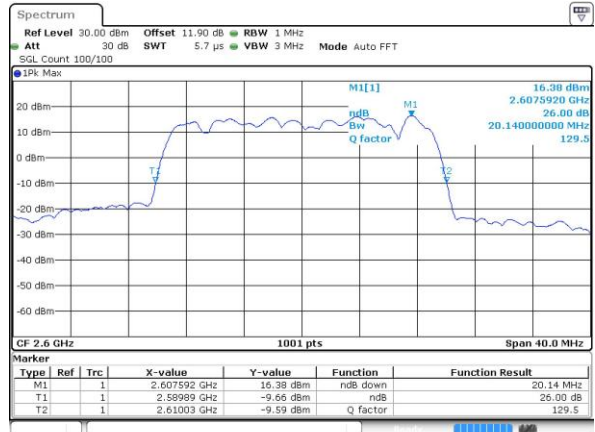
Date: 1 MAR 2017 19:41:16

Middle Channel / 20MHz / QPSK



Date: 1 MAR 2017 19:41:48

Middle Channel / 20MHz / 16QAM



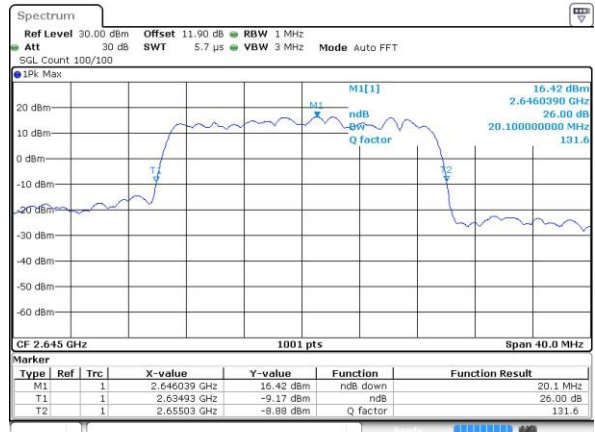
Date: 1 MAR 2017 19:41:58

Highest Channel / 20MHz / QPSK



Date: 1 MAR 2017 19:42:29

Highest Channel / 20MHz / 16QAM



Date: 1 MAR 2017 19:42:39



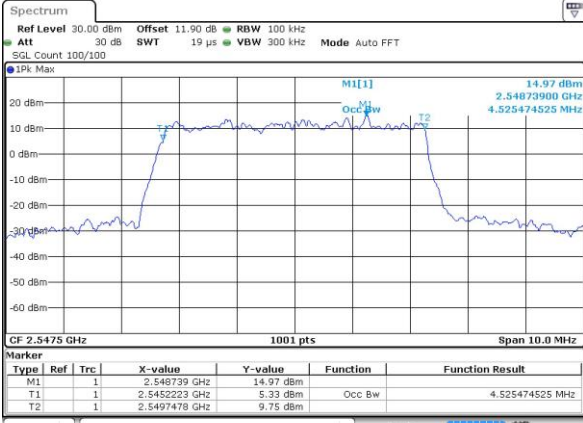
### Occupied Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.53	4.49	9.09	9.03	13.46	13.43	18.26	18.38
Middle CH	-	-	-	-	4.52	4.5	9.03	9.05	13.49	13.46	18.42	18.46
Highest CH	-	-	-	-	4.49	4.52	9.05	9.05	13.46	13.52	18.18	18.38



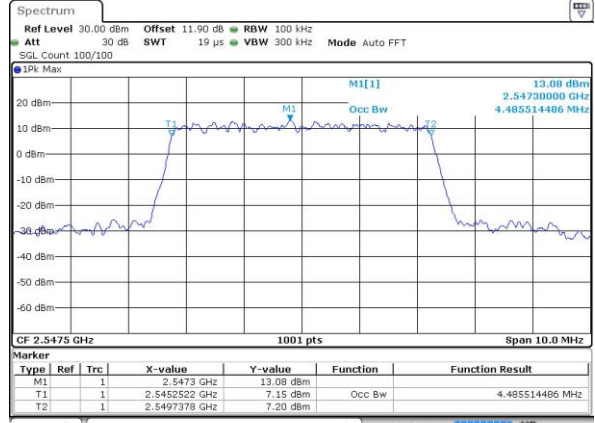
LTE Band 41

Lowest Channel / 5MHz / QPSK



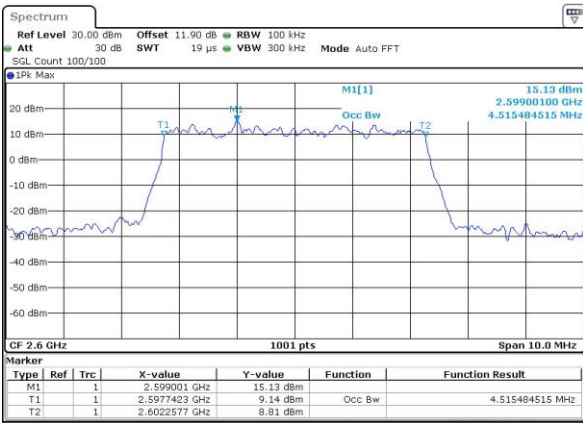
Date: 1 MAR 2017 19:34:31

Lowest Channel / 5MHz / 16QAM



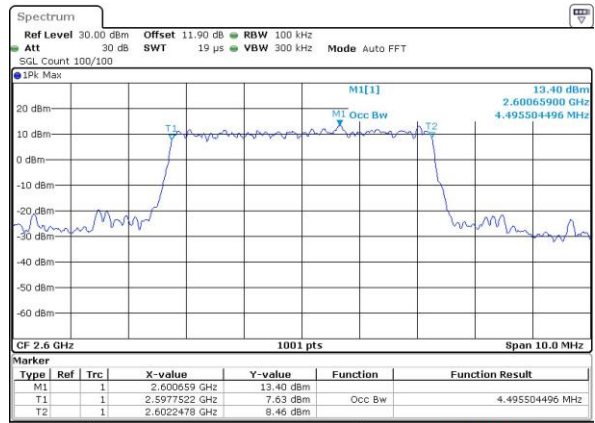
Date: 1 MAR 2017 19:34:42

Middle Channel / 5MHz / QPSK



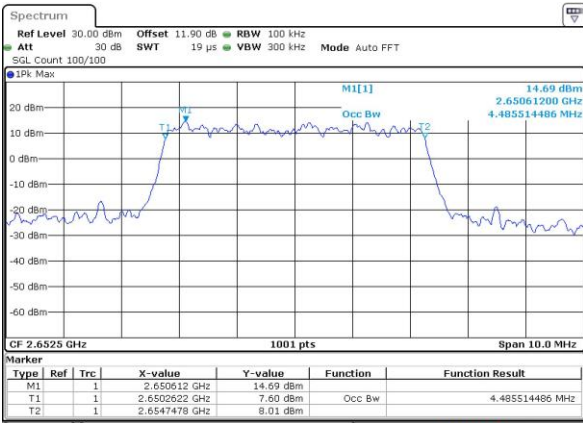
Date: 1 MAR 2017 19:35:13

Middle Channel / 5MHz / 16QAM



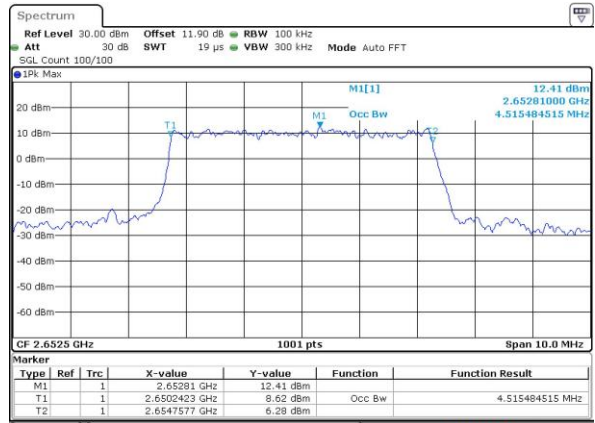
Date: 1 MAR 2017 19:35:23

Highest Channel / 5MHz / QPSK



Date: 1 MAR 2017 19:35:54

Highest Channel / 5MHz / 16QAM

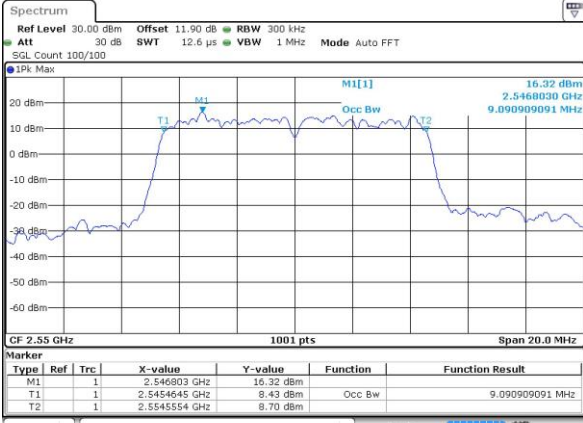


Date: 1 MAR 2017 19:36:05



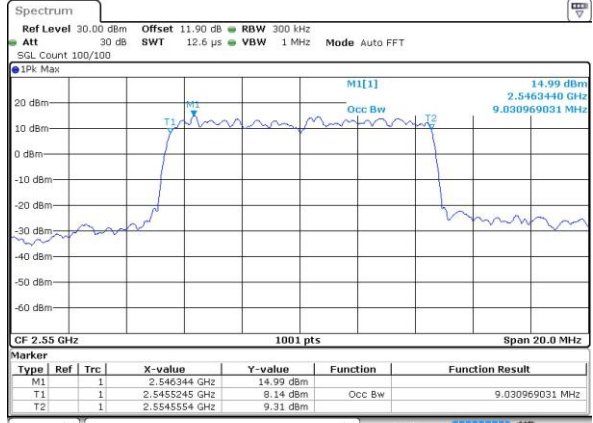
LTE Band 41

Lowest Channel / 10MHz / QPSK



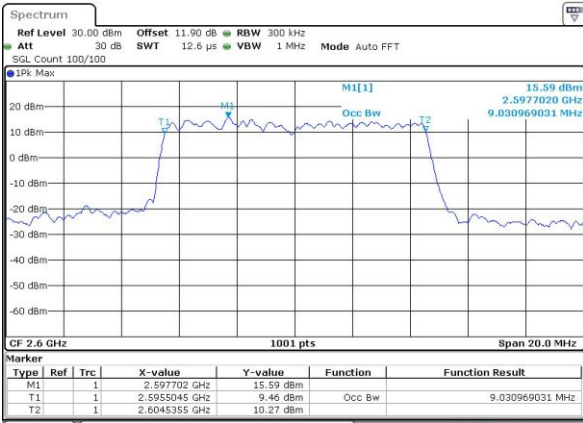
Date: 1 MAR 2017 19:36:36

Lowest Channel / 10MHz / 16QAM



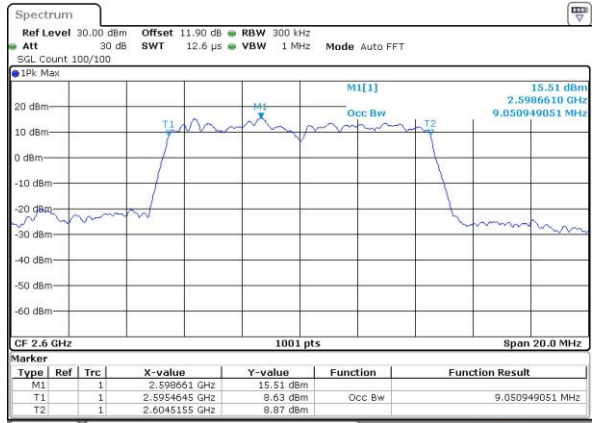
Date: 1 MAR 2017 19:36:46

Middle Channel / 10MHz / QPSK



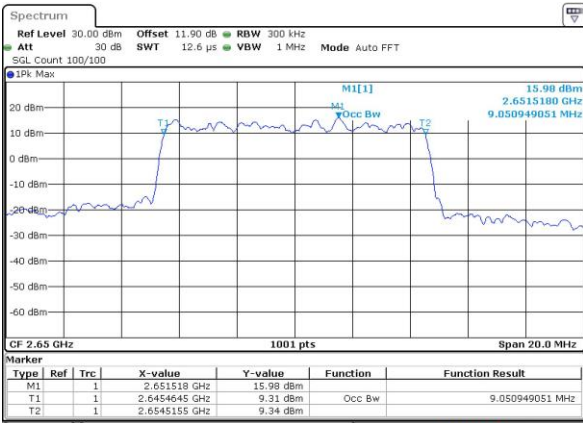
Date: 1 MAR 2017 19:37:17

Middle Channel / 10MHz / 16QAM



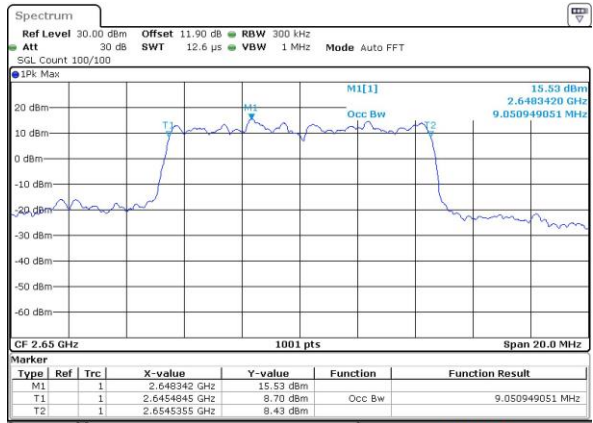
Date: 1 MAR 2017 19:37:26

Highest Channel / 10MHz / QPSK



Date: 1 MAR 2017 19:37:59

Highest Channel / 10MHz / 16QAM

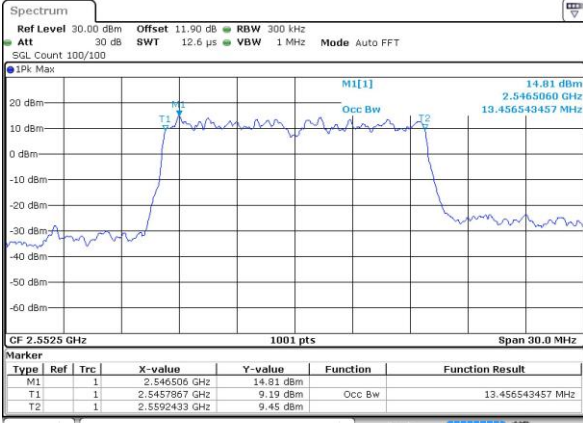


Date: 1 MAR 2017 19:38:09



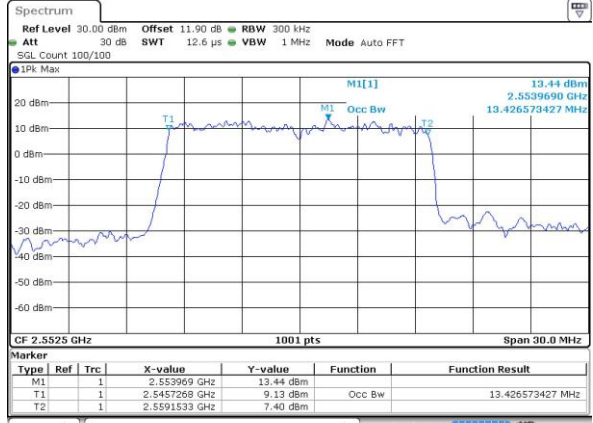
LTE Band 41

Lowest Channel / 15MHz / QPSK



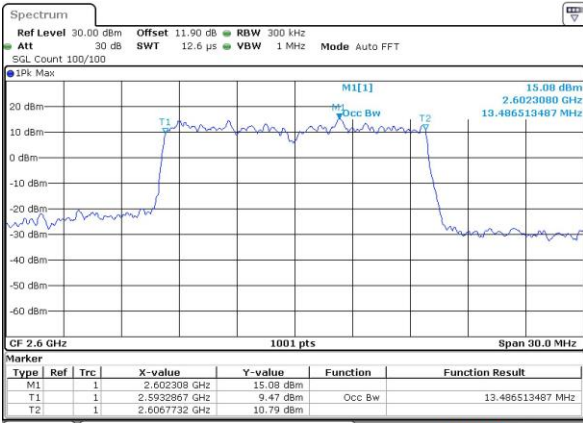
Date: 1 MAR 2017 19:38:41

Lowest Channel / 15MHz / 16QAM



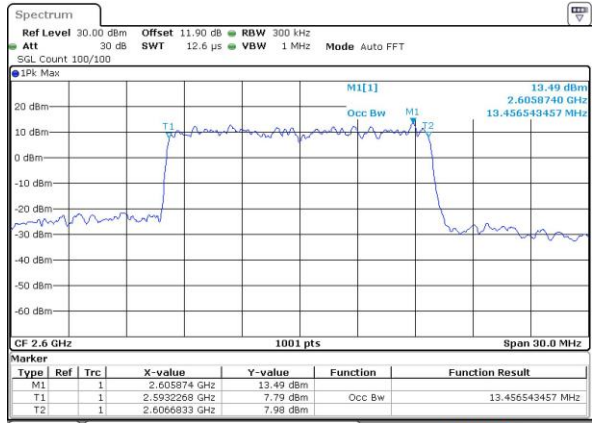
Date: 1 MAR 2017 19:38:51

Middle Channel / 15MHz / QPSK



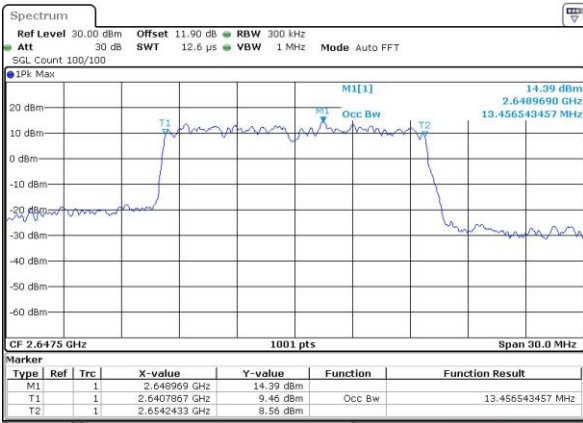
Date: 1 MAR 2017 19:39:22

Middle Channel / 15MHz / 16QAM



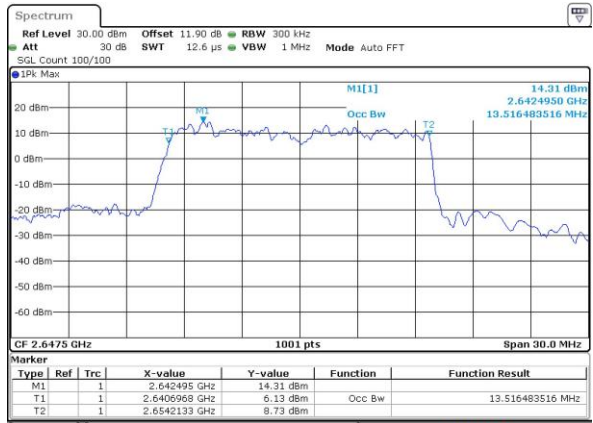
Date: 1 MAR 2017 19:39:33

Highest Channel / 15MHz / QPSK



Date: 1 MAR 2017 19:40:04

Highest Channel / 15MHz / 16QAM

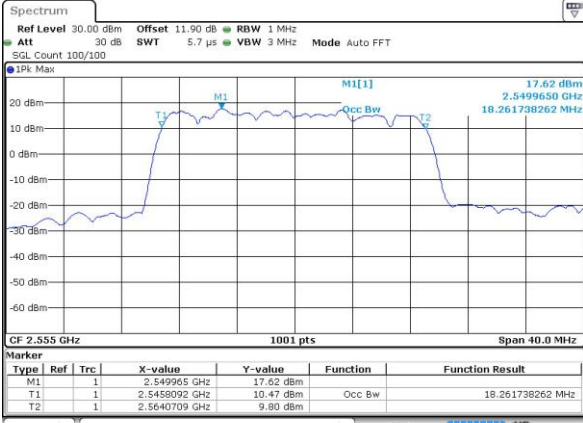


Date: 1 MAR 2017 19:40:14



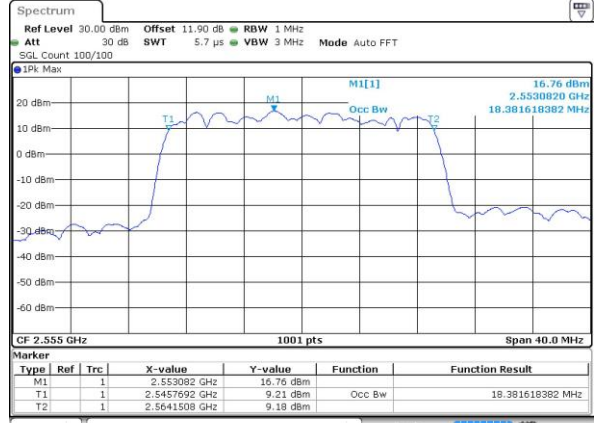
LTE Band 41

Lowest Channel / 20MHz / QPSK



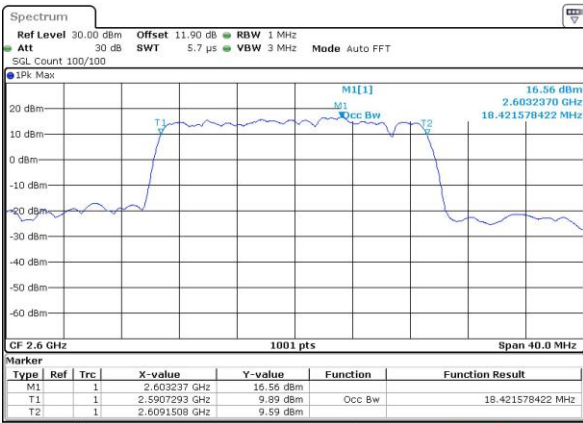
Date: 1 MAR 2017 19:40:45

Lowest Channel / 20MHz / 16QAM



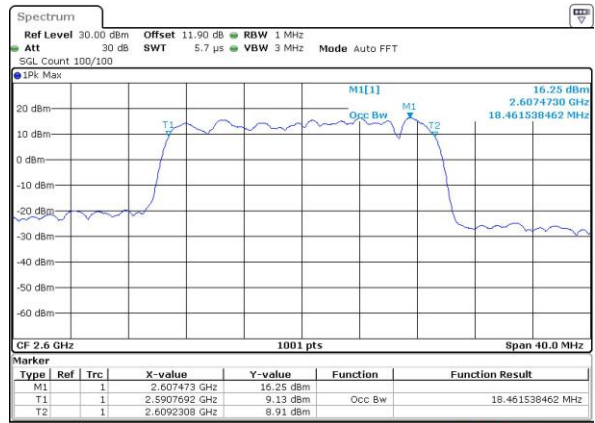
Date: 1 MAR 2017 19:40:56

Middle Channel / 20MHz / QPSK



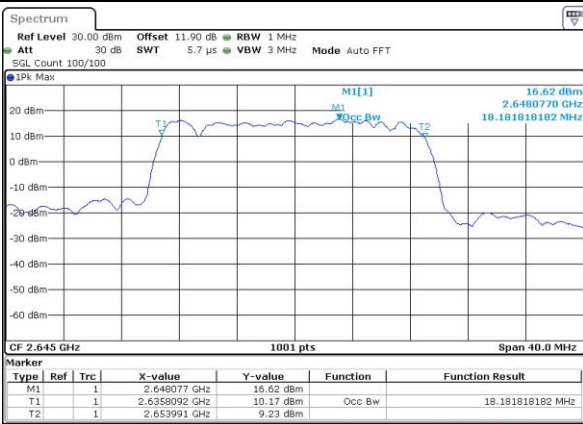
Date: 1 MAR 2017 19:41:27

Middle Channel / 20MHz / 16QAM



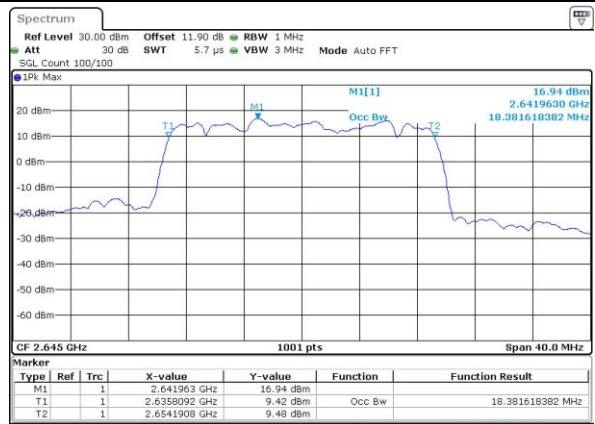
Date: 1 MAR 2017 19:41:37

Highest Channel / 20MHz / QPSK



Date: 1 MAR 2017 19:42:08

Highest Channel / 20MHz / 16QAM



Date: 1 MAR 2017 19:42:19

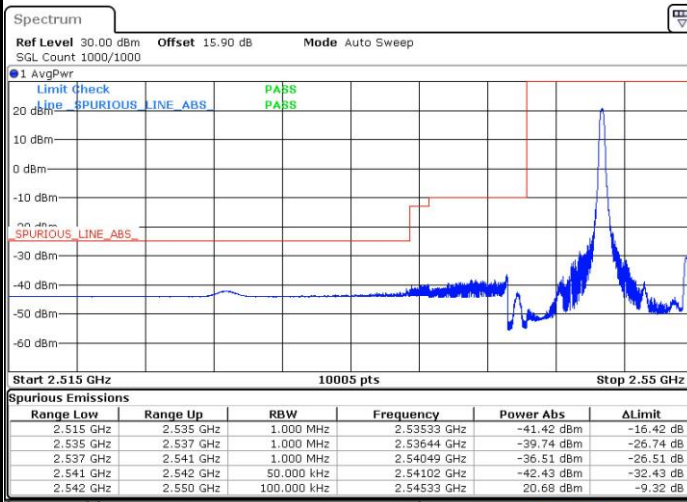


## **Conducted Band Edge**



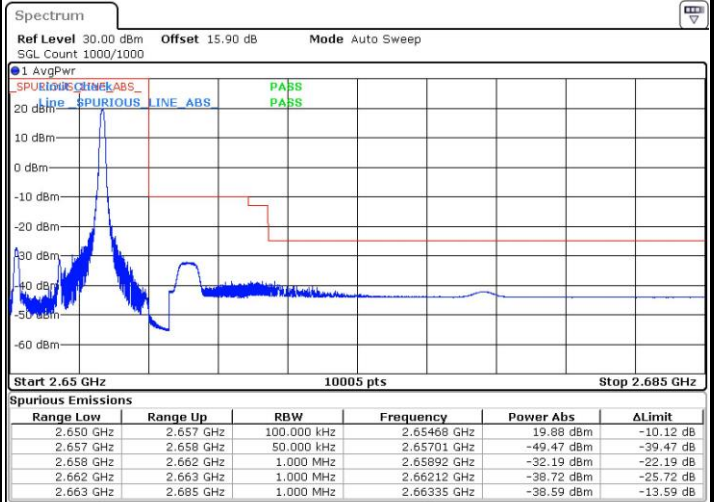
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



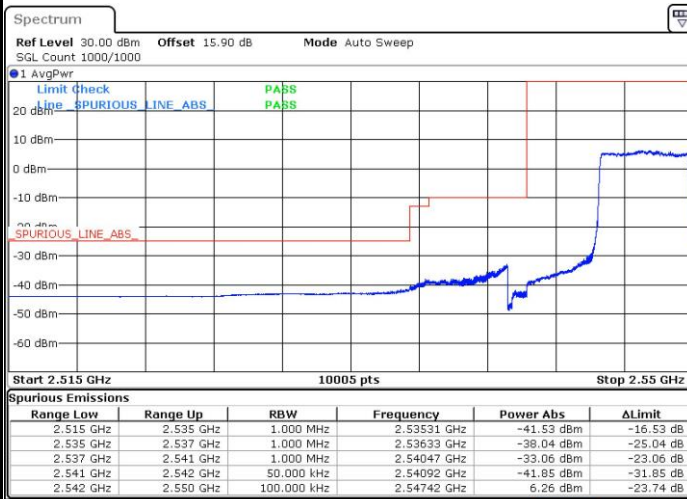
Date: 1 MAR 2017 17:25:21

Highest Band Edge / 1 RB



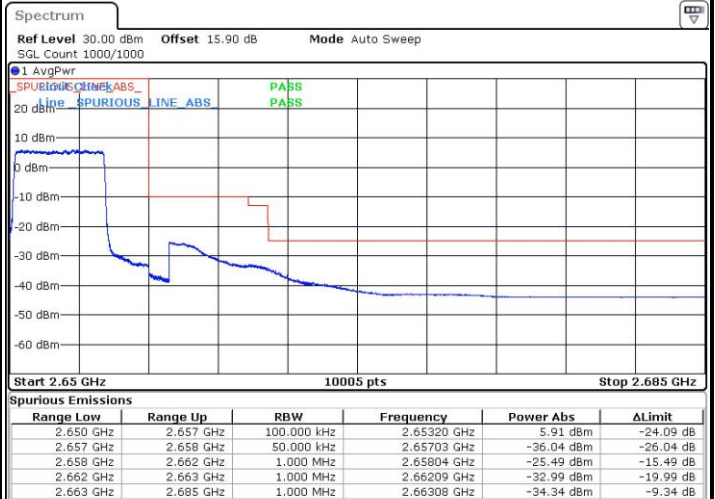
Date: 1 MAR 2017 18:01:28

Lowest Band Edge / Full RB



Date: 1 MAR 2017 17:37:51

Highest Band Edge / Full RB

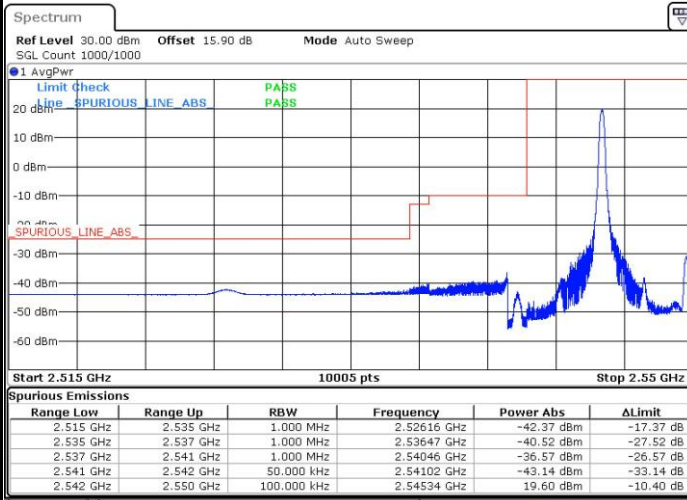


Date: 1 MAR 2017 18:14:30



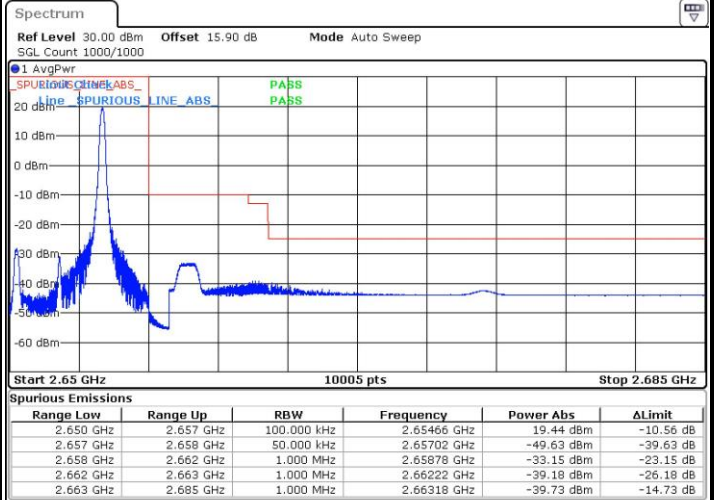
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



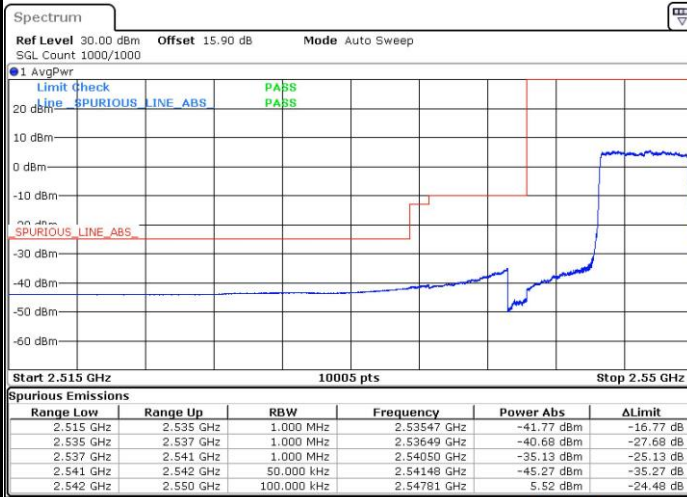
Date: 1 MAR 2017 17:30:55

Highest Band Edge / 1 RB



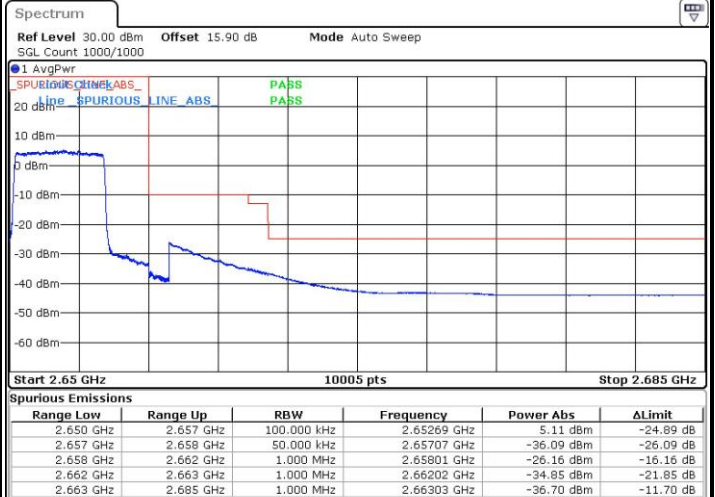
Date: 1 MAR 2017 18:05:40

Lowest Band Edge / Full RB



Date: 1 MAR 2017 17:34:53

Highest Band Edge / Full RB



Date: 1 MAR 2017 18:09:28