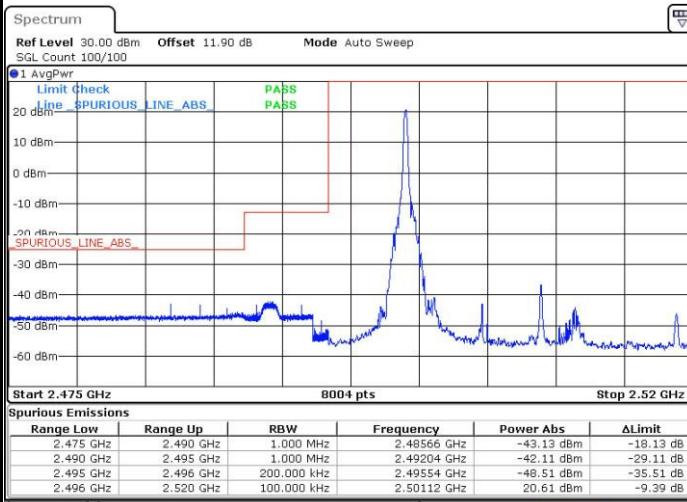




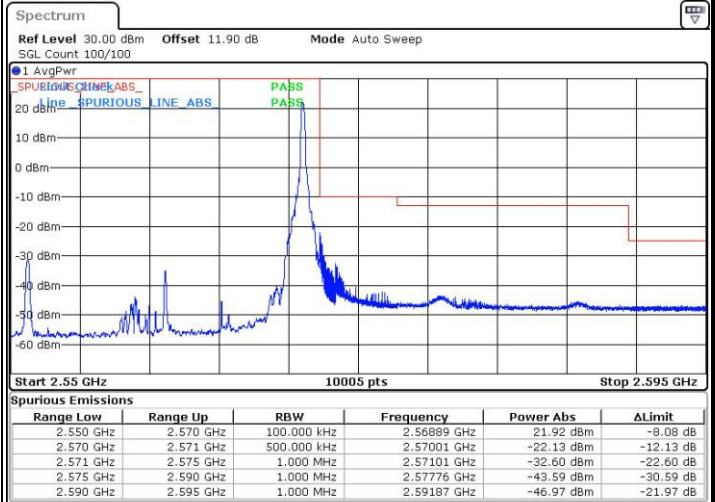
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



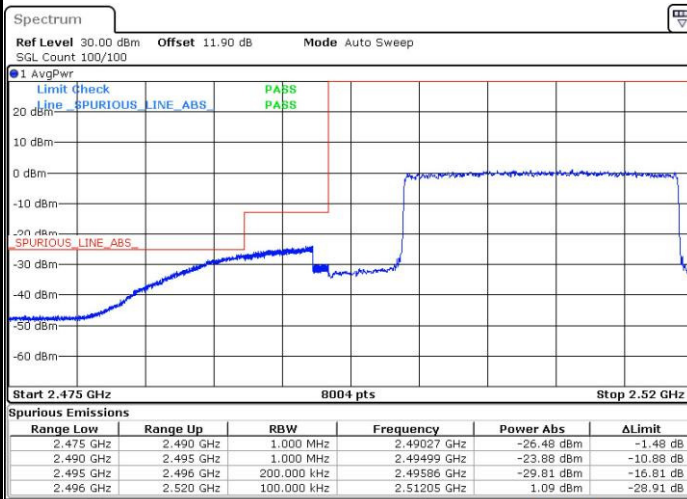
Date: 22.MAR.2017 20:16:46

Highest Band Edge / 1RB



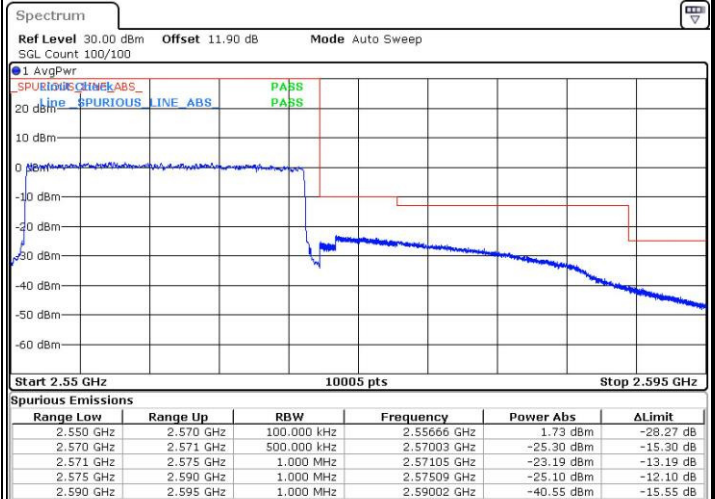
Date: 22.MAR.2017 20:26:23

Lowest Band Edge / Full RB



Date: 22.MAR.2017 20:19:05

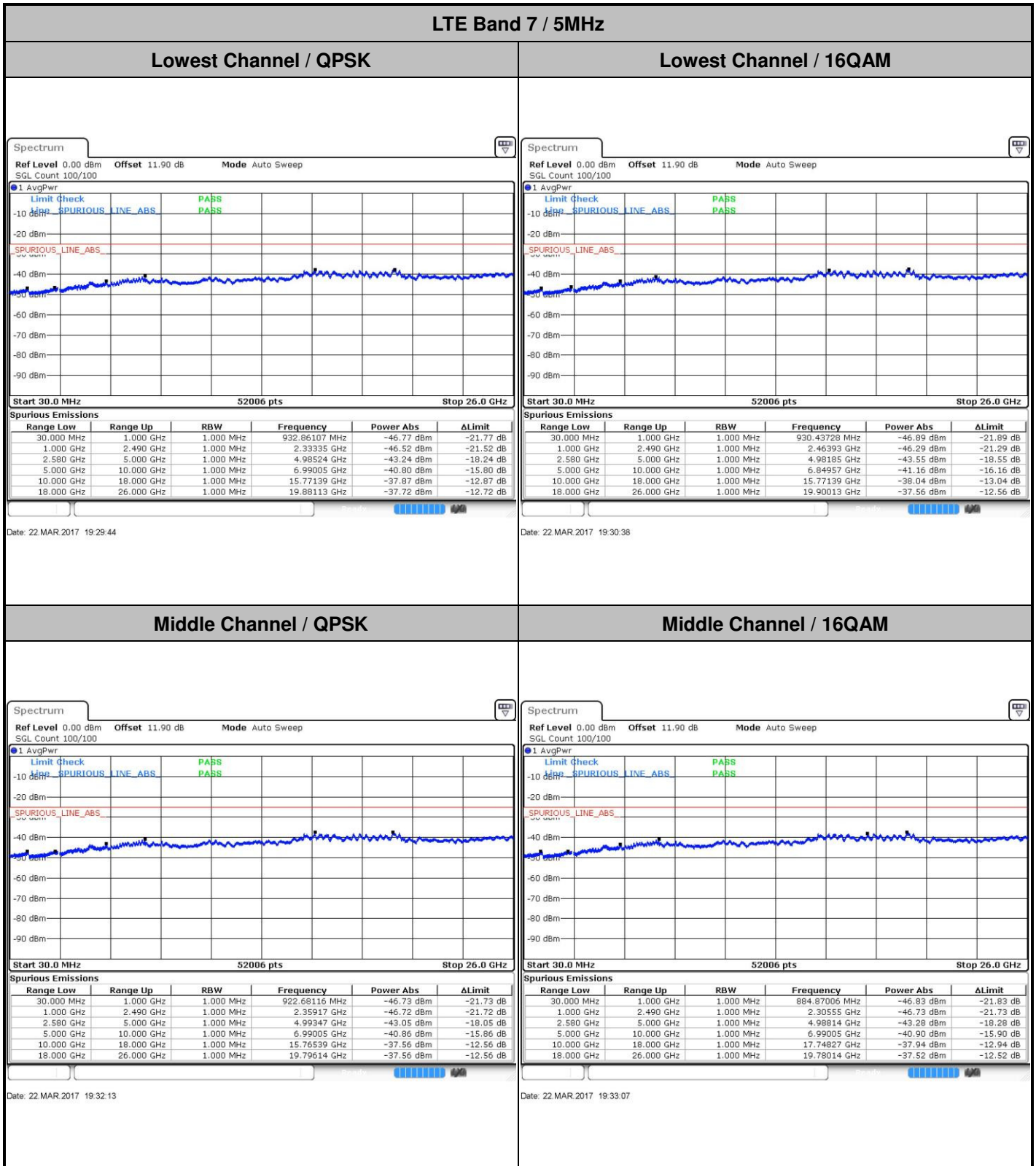
Highest Band Edge / Full RB



Date: 22.MAR.2017 20:27:33



# Conducted Spurious Emission

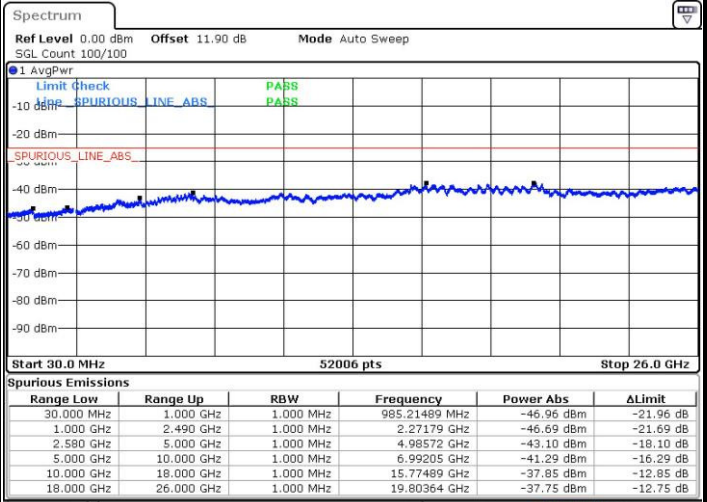
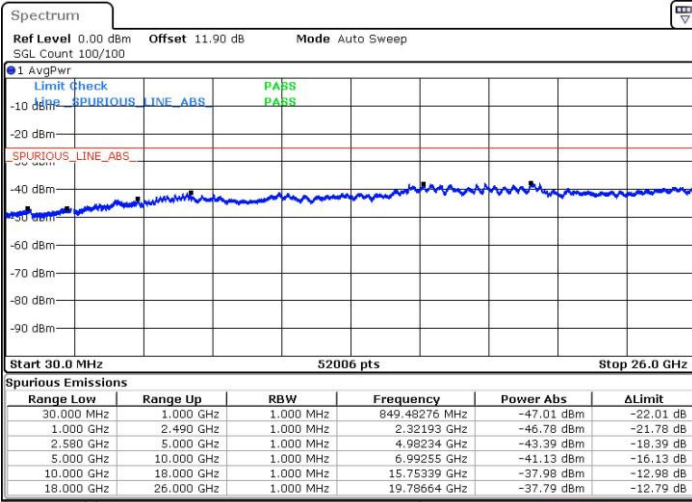




LTE Band 7 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



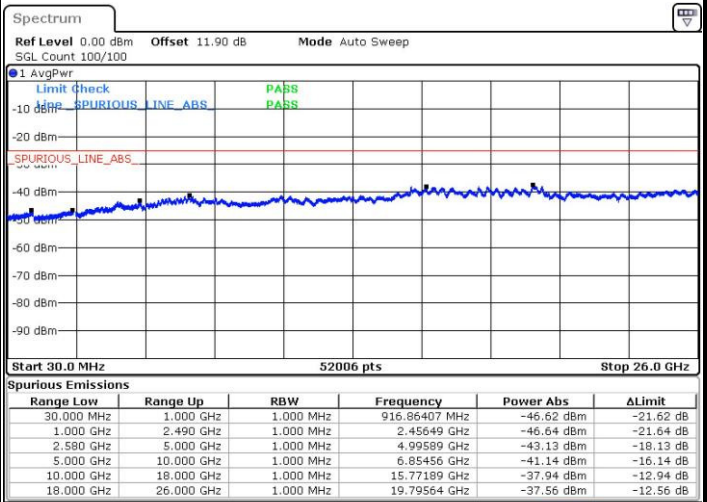
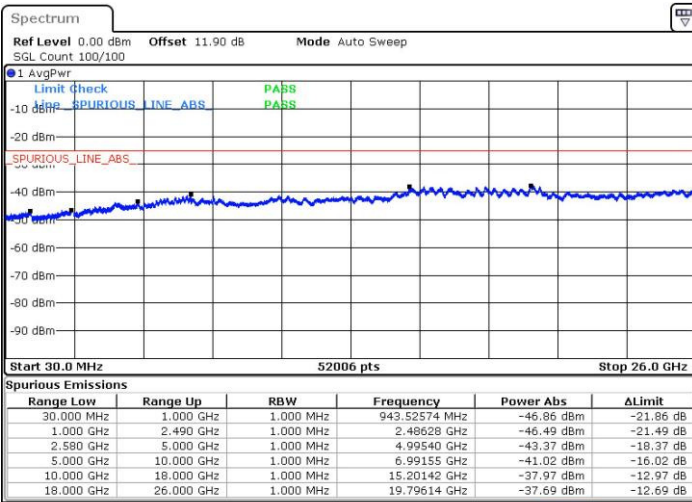
Date: 22.MAR.2017 19:39:21

Date: 22.MAR.2017 19:40:15

LTE Band 7 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 22.MAR.2017 19:46:29

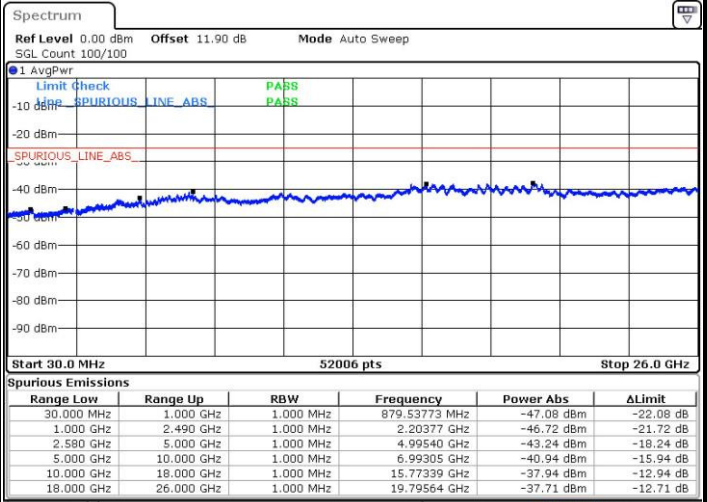
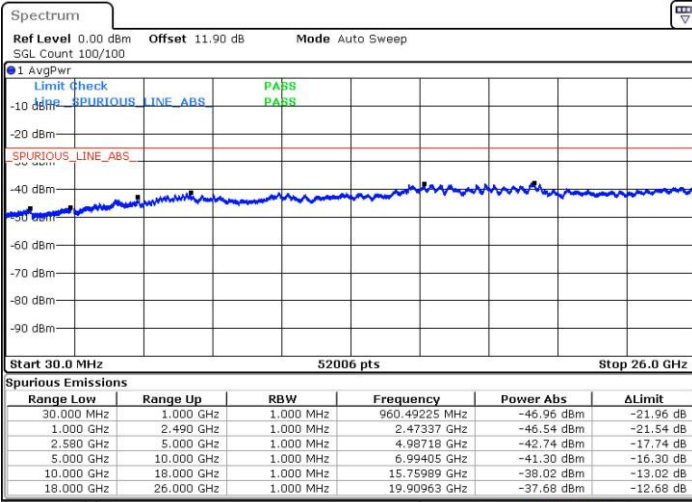
Date: 22.MAR.2017 19:47:23



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

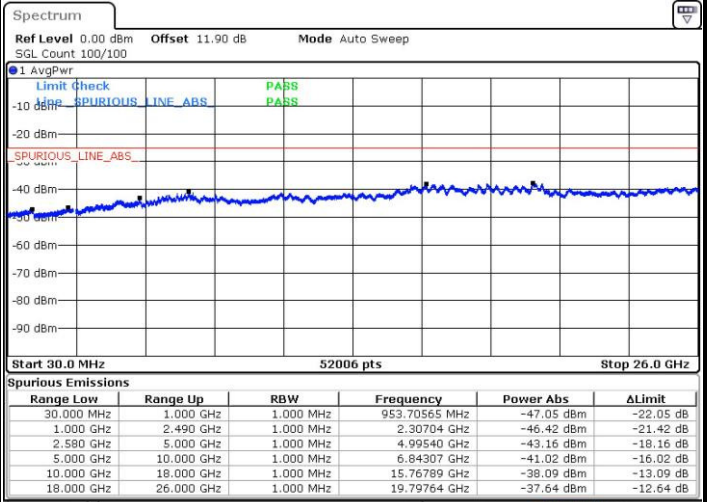
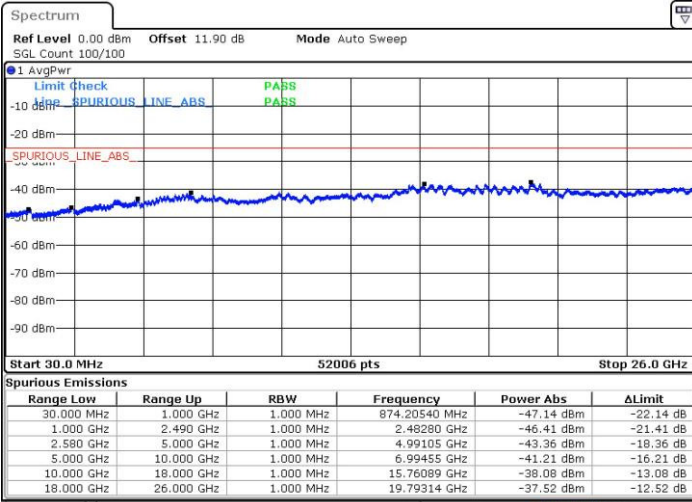


Date: 22 MAR 2017 19:46:58

Date: 22 MAR 2017 19:49:52

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22 MAR 2017 19:56:07

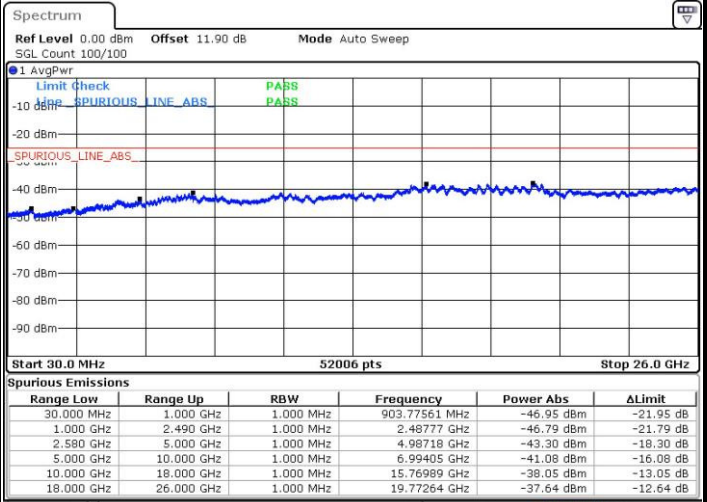
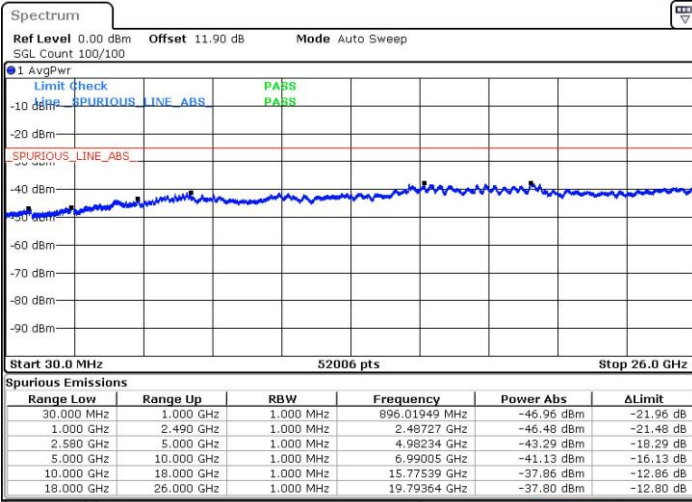
Date: 22 MAR 2017 19:57:01



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

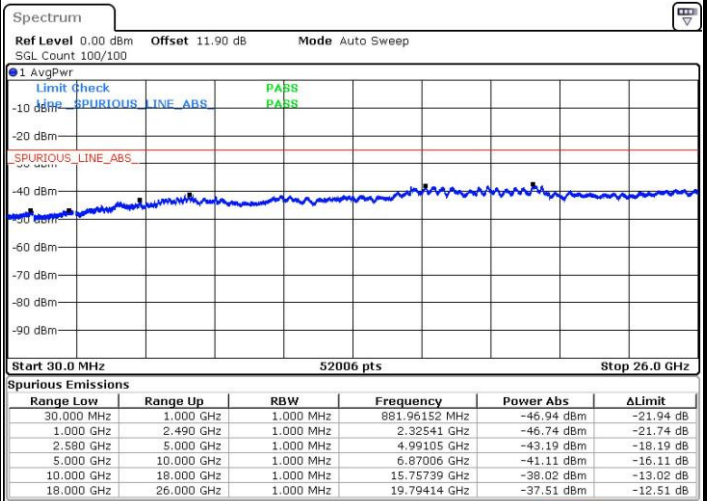
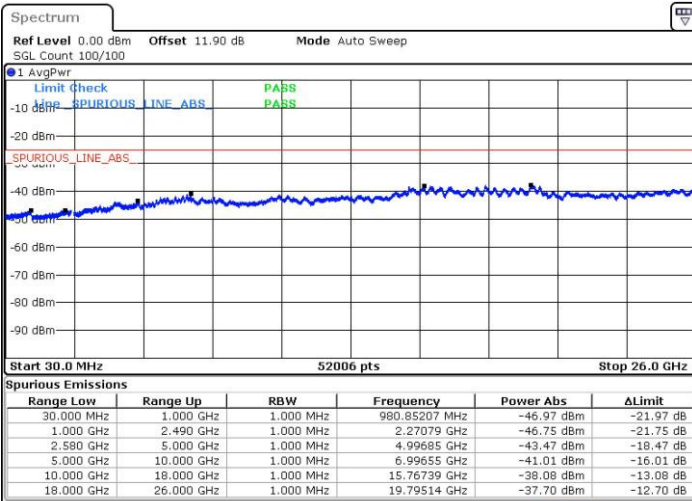


Date: 22 MAR 2017 20:03:15

Date: 22 MAR 2017 20:04:08

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 22 MAR 2017 20:05:44

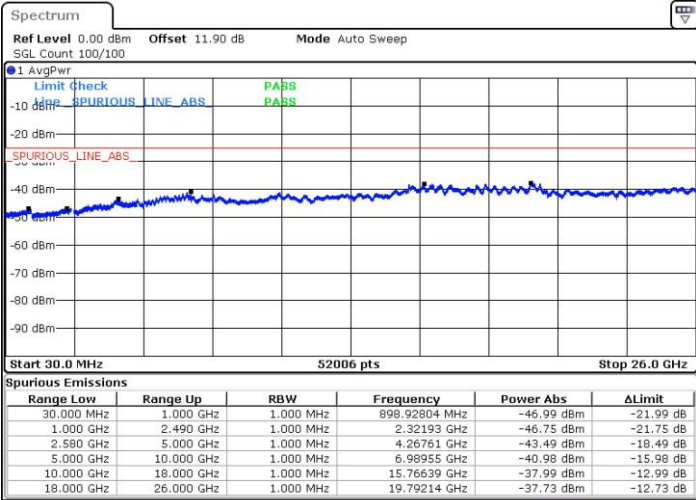
Date: 22 MAR 2017 20:06:37



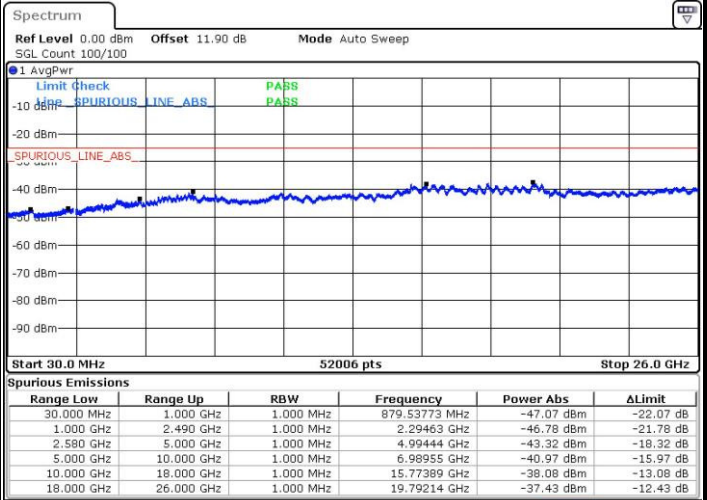
LTE Band7 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22.MAR.2017 20:12:52

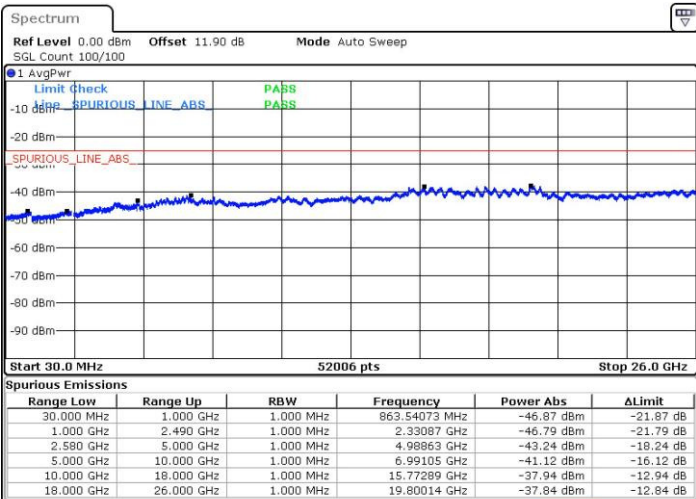


Date: 22.MAR.2017 20:13:45

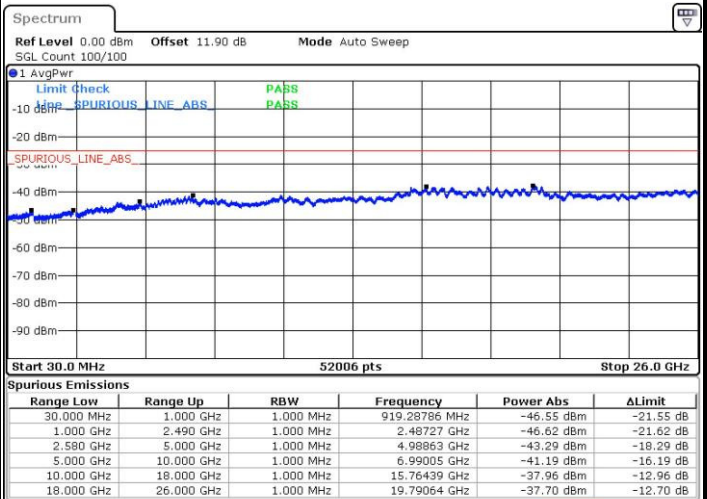
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 22.MAR.2017 20:19:59



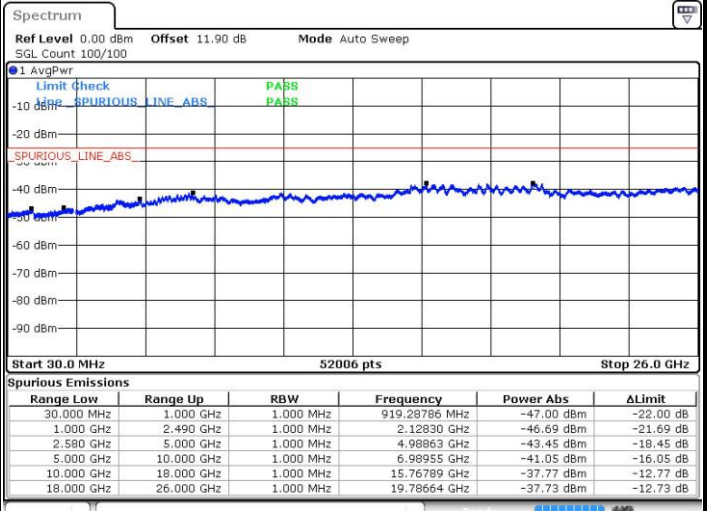
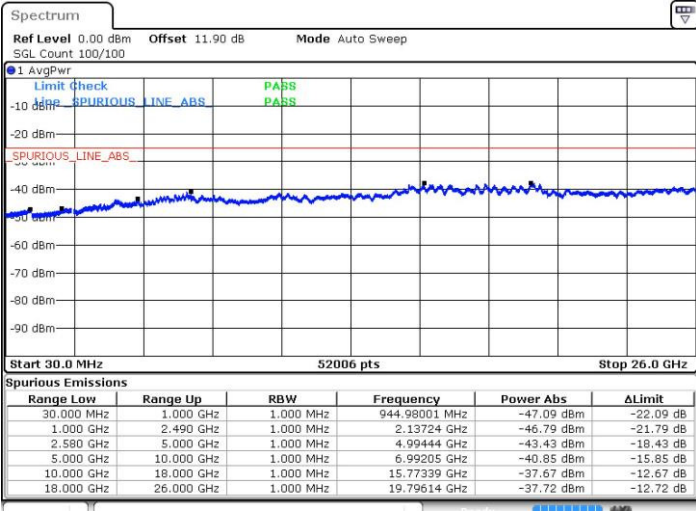
Date: 22.MAR.2017 20:20:53



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

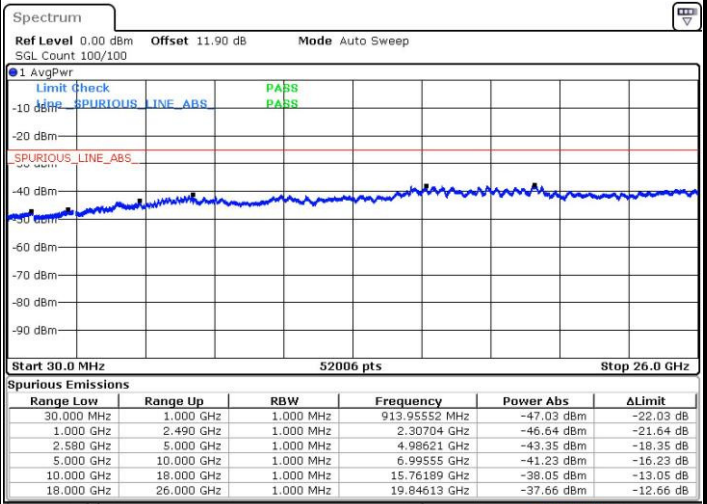
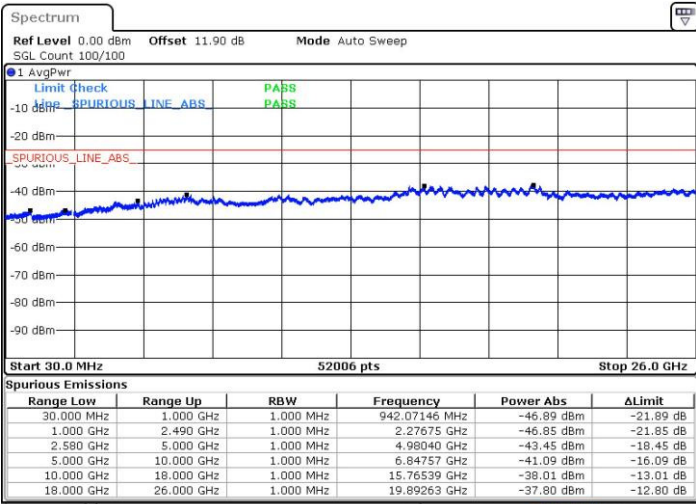


Date: 22 MAR 2017 20:22:28

Date: 22 MAR 2017 20:23:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22 MAR 2017 20:29:37

Date: 22 MAR 2017 20:30:31



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0117	PASS
40	Normal Voltage	0.0121	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0118	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0119	
-20	Normal Voltage	0.0120	
-30	Normal Voltage	0.0112	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





## LTE Band 38

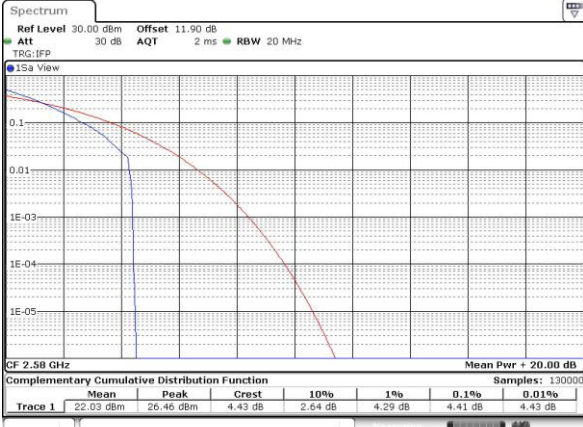
### Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.41	4.9	5.36	5.91	<b>PASS</b>
Middle CH	4.23	4.84	5.07	5.86	
Highest CH	4.26	4.78	4.99	5.8	



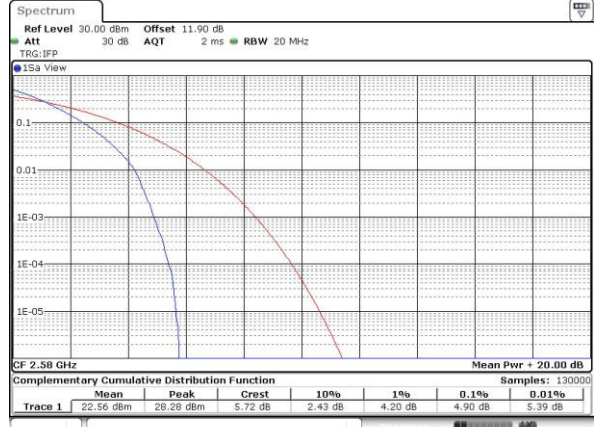
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



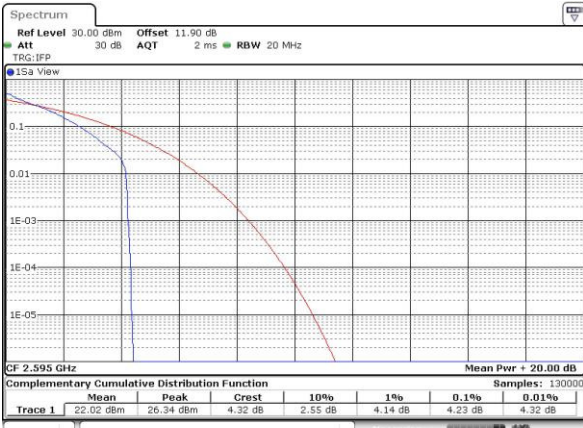
Date: 22 MAR 2017 22:14:32

Lowest Channel / Full RB



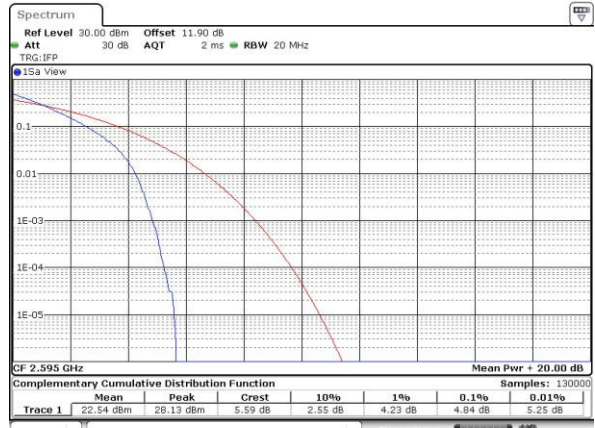
Date: 22 MAR 2017 22:15:32

Middle Channel / 1RB



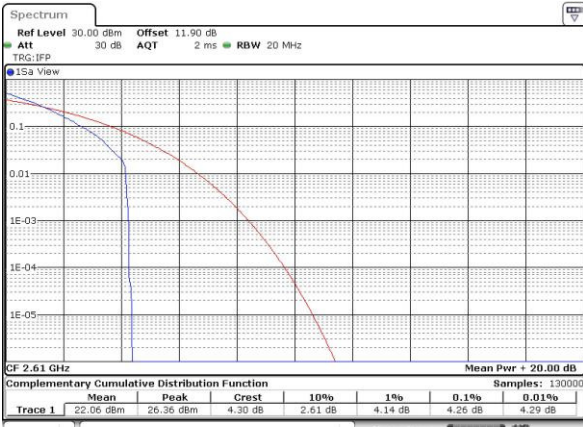
Date: 22 MAR 2017 22:18:35

Middle Channel / Full RB



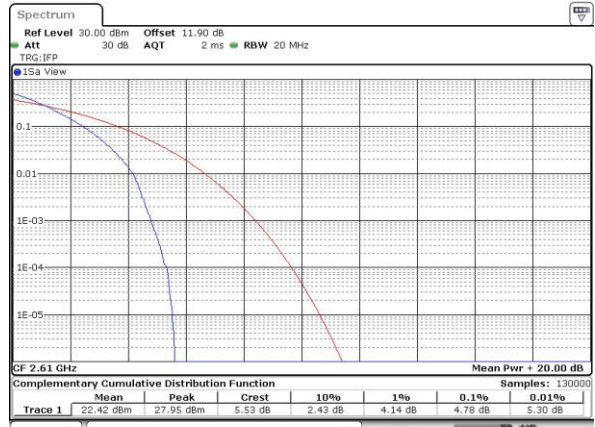
Date: 22 MAR 2017 22:15:49

Highest Channel / 1RB



Date: 22 MAR 2017 22:18:56

Highest Channel / Full RB

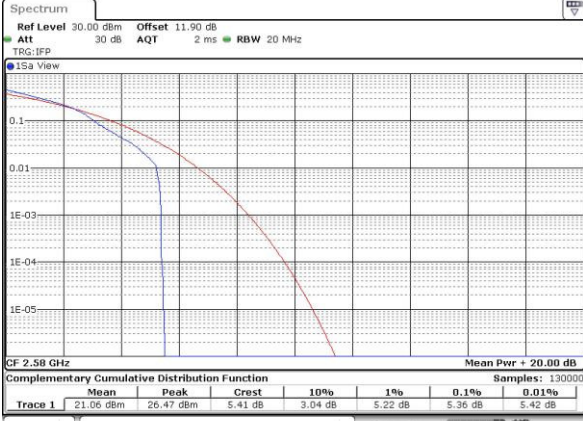


Date: 22 MAR 2017 22:19:47



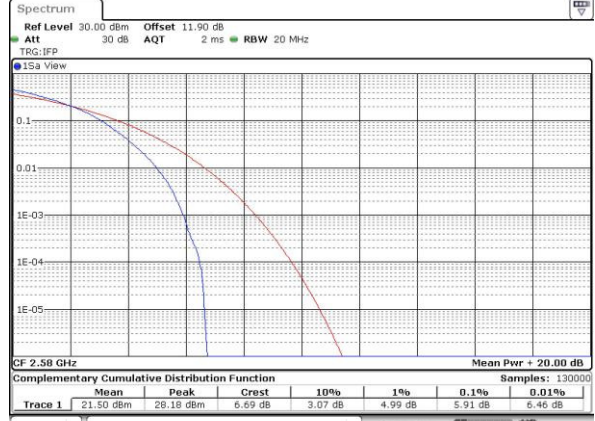
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



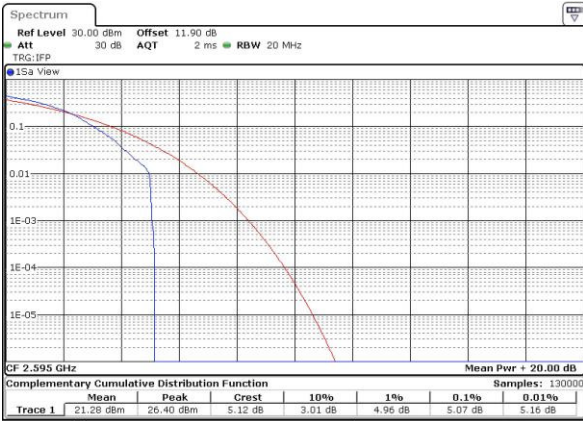
Date: 22 MAR 2017 22:14:51

Lowest Channel / Full RB



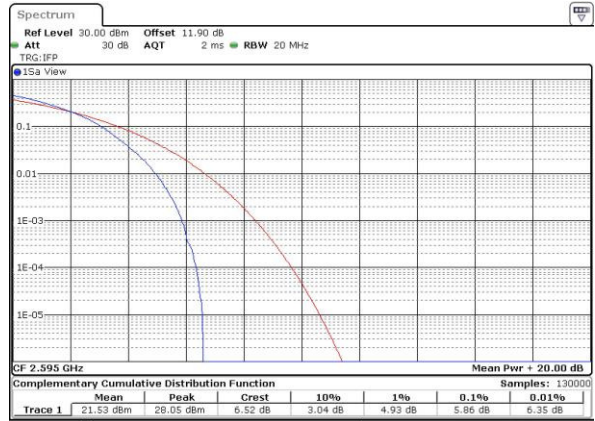
Date: 22 MAR 2017 22:15:11

Middle Channel / 1RB



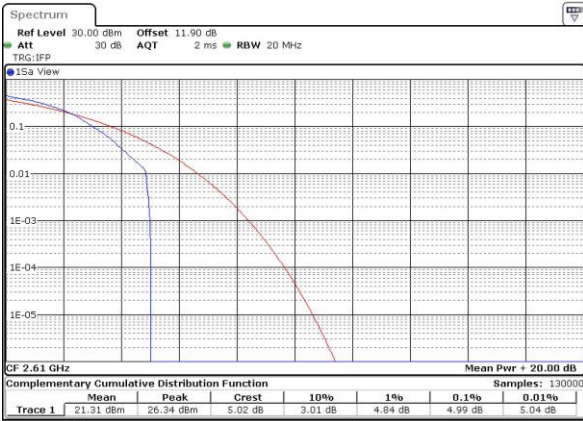
Date: 22 MAR 2017 22:18:17

Middle Channel / Full RB



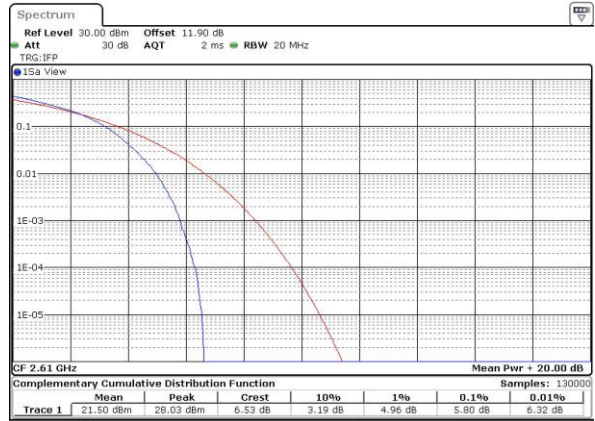
Date: 22 MAR 2017 22:16:07

Highest Channel / 1RB



Date: 22 MAR 2017 22:19:13

Highest Channel / Full RB



Date: 22 MAR 2017 22:19:30



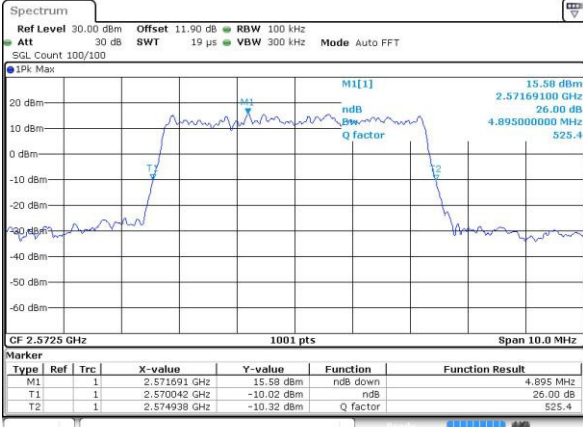
**26dB Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.90	4.90	9.63	9.61	14.30	14.45	20.10	20.14
Middle CH	-	-	-	-	4.82	4.82	9.67	9.81	14.18	14.36	20.18	19.98
Highest CH	-	-	-	-	4.90	4.93	9.69	9.65	14.48	14.33	20.06	20.06



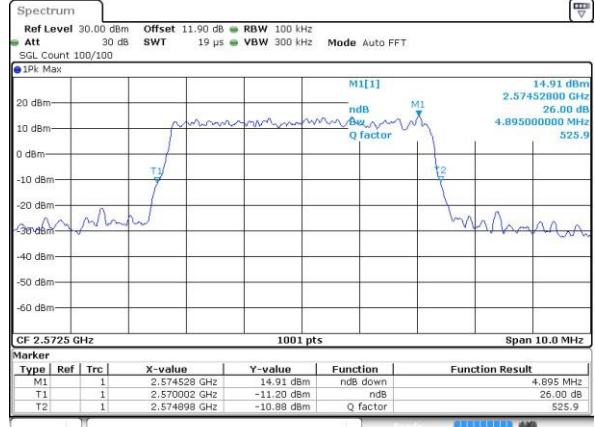
LTE Band 38

Lowest Channel / 5MHz / QPSK



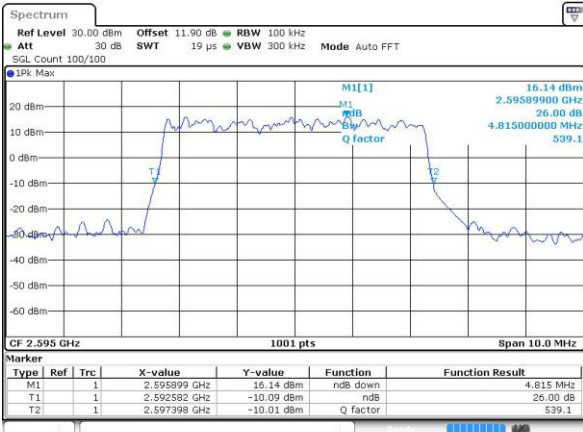
Date: 22 MAR 2017 20:51:42

Lowest Channel / 5MHz / 16QAM



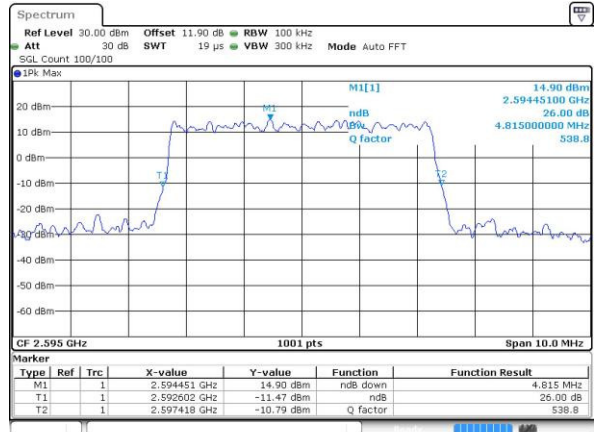
Date: 22 MAR 2017 20:51:53

Middle Channel / 5MHz / QPSK



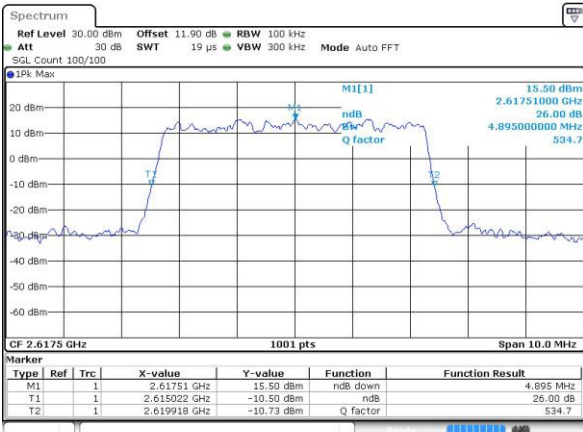
Date: 22 MAR 2017 20:52:24

Middle Channel / 5MHz / 16QAM



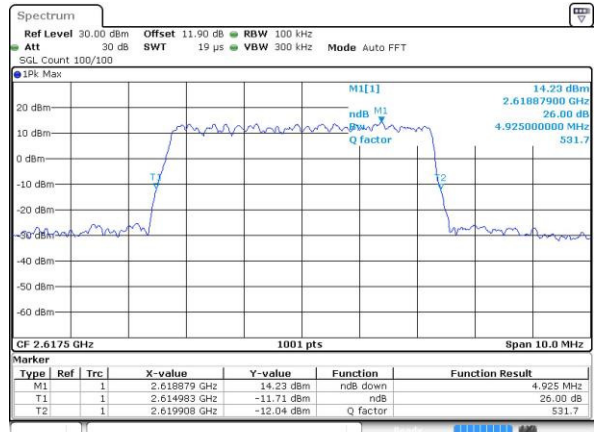
Date: 22 MAR 2017 20:52:34

Highest Channel / 5MHz / QPSK



Date: 22 MAR 2017 20:53:05

Highest Channel / 5MHz / 16QAM

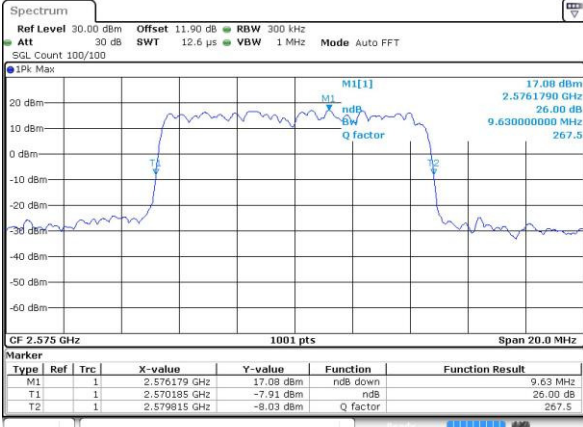


Date: 22 MAR 2017 20:53:16



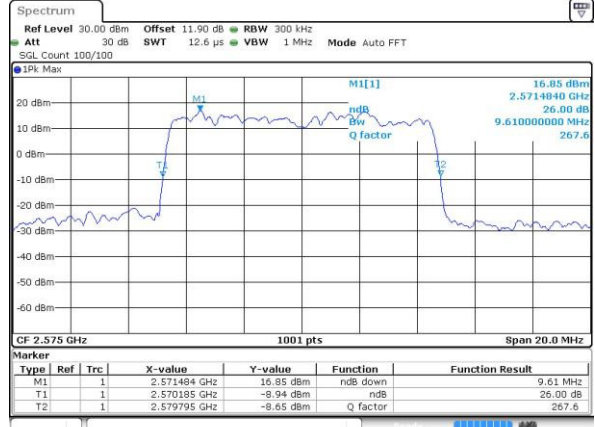
LTE Band 38

Lowest Channel / 10MHz / QPSK



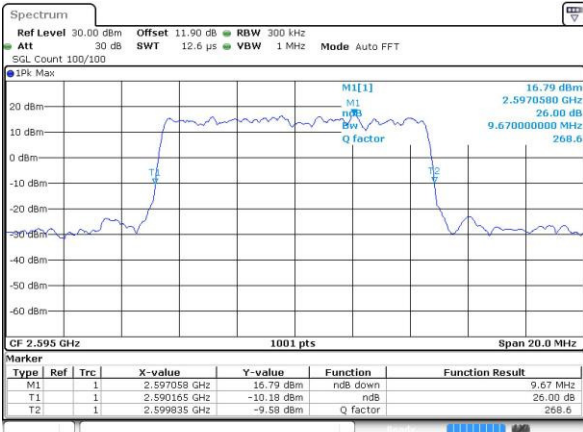
Date: 22 MAR 2017 20:53:47

Lowest Channel / 10MHz / 16QAM



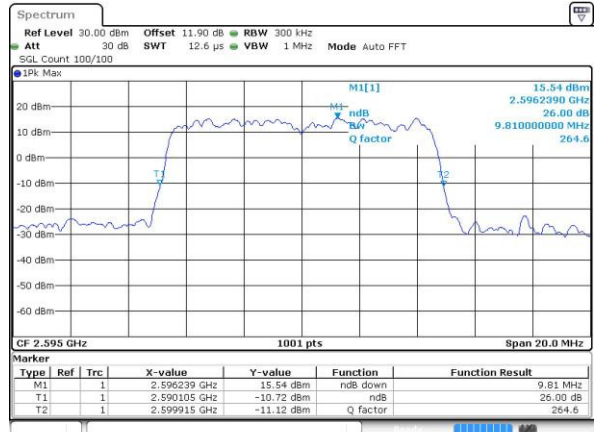
Date: 22 MAR 2017 20:53:57

Middle Channel / 10MHz / QPSK



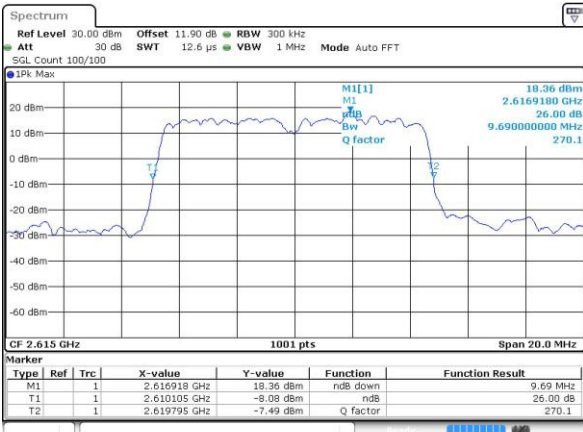
Date: 22 MAR 2017 20:54:28

Middle Channel / 10MHz / 16QAM



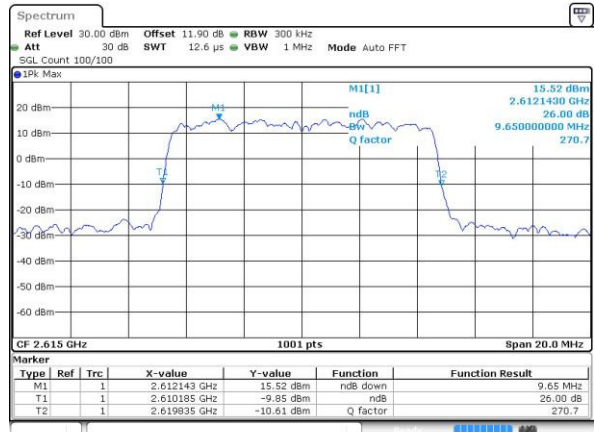
Date: 22 MAR 2017 20:54:39

Highest Channel / 10MHz / QPSK



Date: 22 MAR 2017 20:55:10

Highest Channel / 10MHz / 16QAM

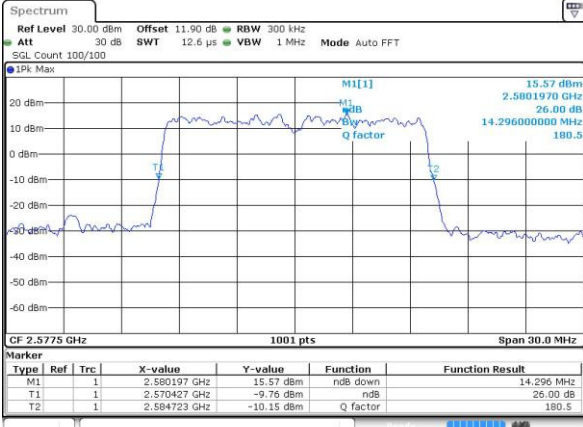


Date: 22 MAR 2017 20:55:20



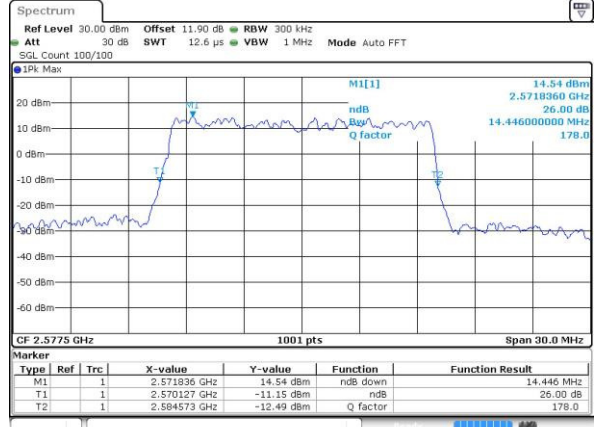
LTE Band 38

Lowest Channel / 15MHz / QPSK



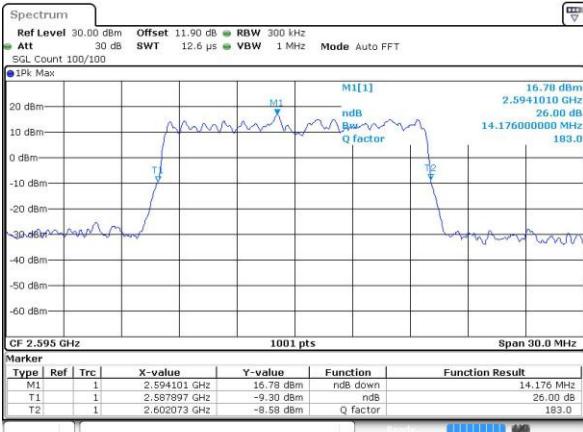
Date: 22 MAR 2017 20:55:51

Lowest Channel / 15MHz / 16QAM



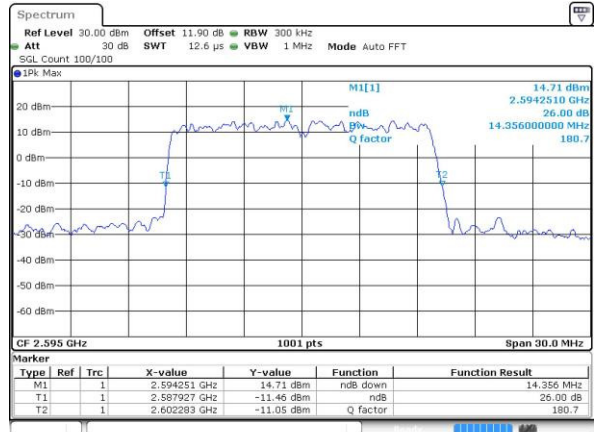
Date: 22 MAR 2017 20:56:01

Middle Channel / 15MHz / QPSK



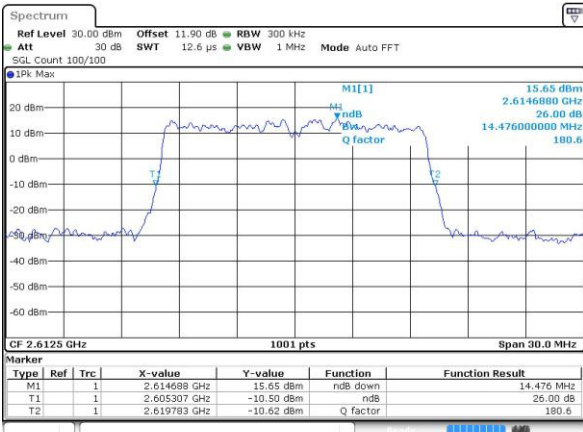
Date: 22 MAR 2017 20:56:33

Middle Channel / 15MHz / 16QAM



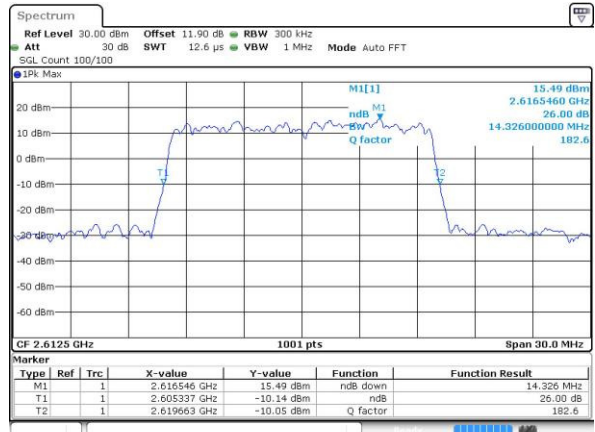
Date: 22 MAR 2017 20:56:43

Highest Channel / 15MHz / QPSK



Date: 22 MAR 2017 20:57:14

Highest Channel / 15MHz / 16QAM

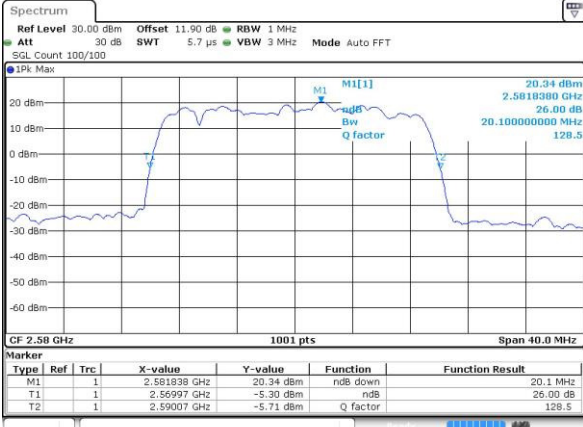


Date: 22 MAR 2017 20:57:24



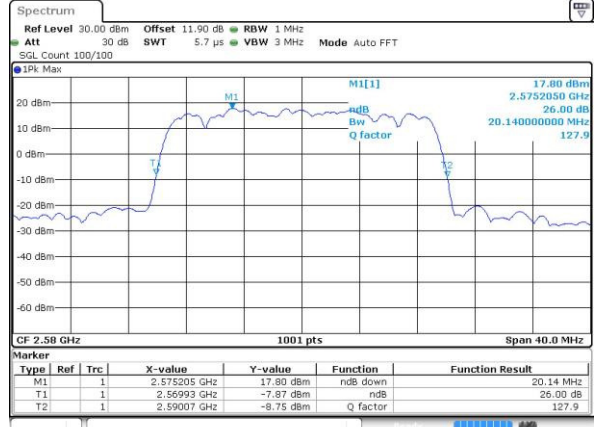
LTE Band 38

Lowest Channel / 20MHz / QPSK



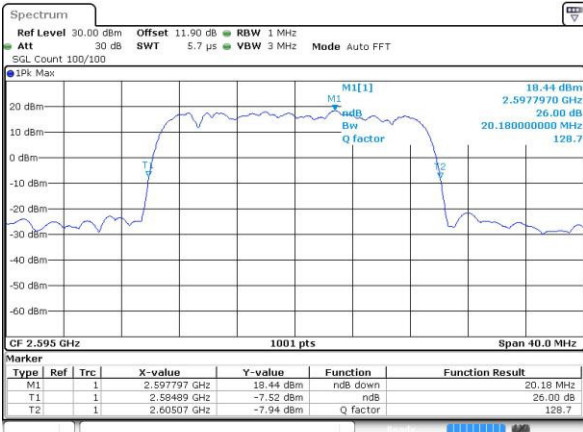
Date: 22 MAR 2017 20:57:55

Lowest Channel / 20MHz / 16QAM



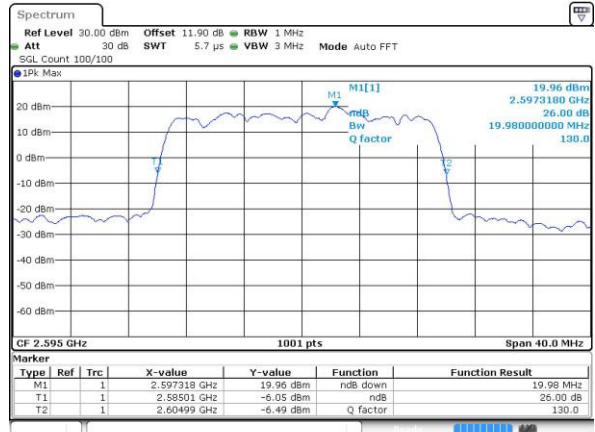
Date: 22 MAR 2017 20:58:06

Middle Channel / 20MHz / QPSK



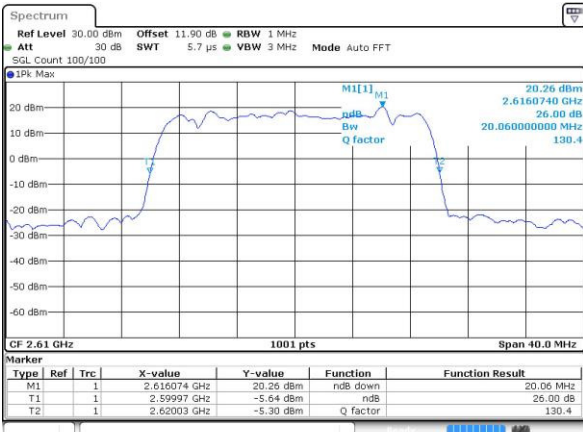
Date: 22 MAR 2017 20:58:37

Middle Channel / 20MHz / 16QAM



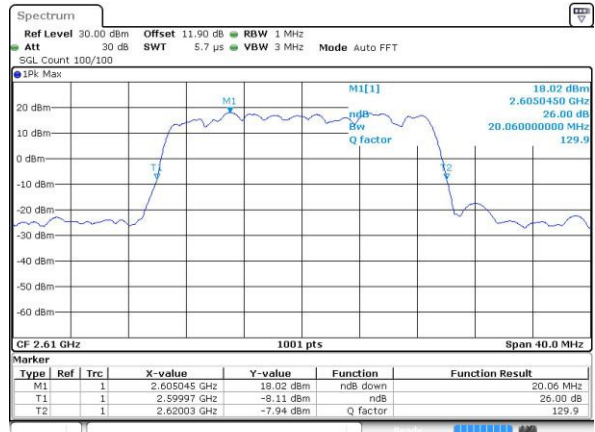
Date: 22 MAR 2017 20:58:47

Highest Channel / 20MHz / QPSK



Date: 22 MAR 2017 20:59:18

Highest Channel / 20MHz / 16QAM



Date: 22 MAR 2017 20:59:28





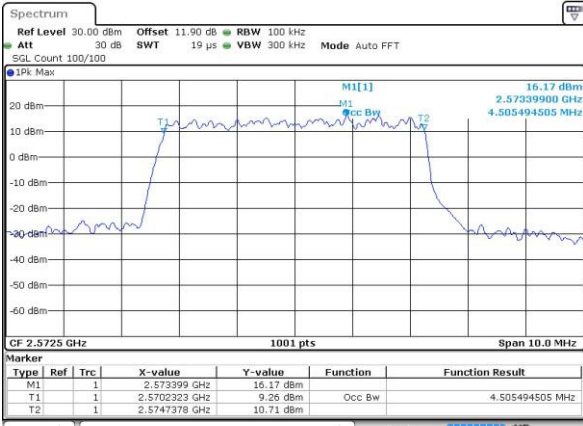
### Occupied Bandwidth

Mode	LTE Band 38 : 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	-	-	-	-	4.51	4.48	8.99	8.95	13.34	13.43	18.18	18.26
Middle CH	-	-	-	-	4.52	4.49	9.07	9.01	13.4	13.46	18.54	18.3
Highest CH	-	-	-	-	4.49	4.48	9.05	9.03	13.4	13.4	18.3	18.26



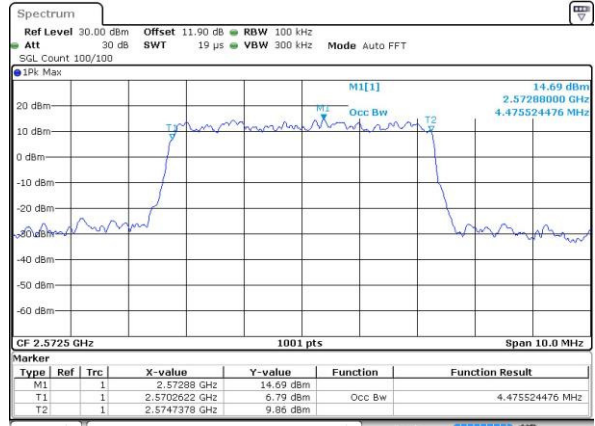
LTE Band 38

Lowest Channel / 5MHz / QPSK



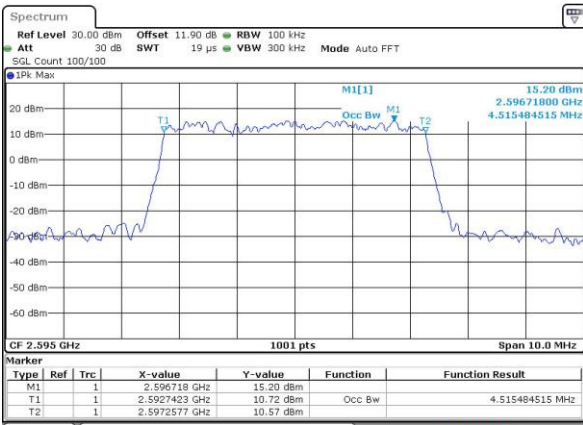
Date: 22 MAR 2017 20:51:22

Lowest Channel / 5MHz / 16QAM



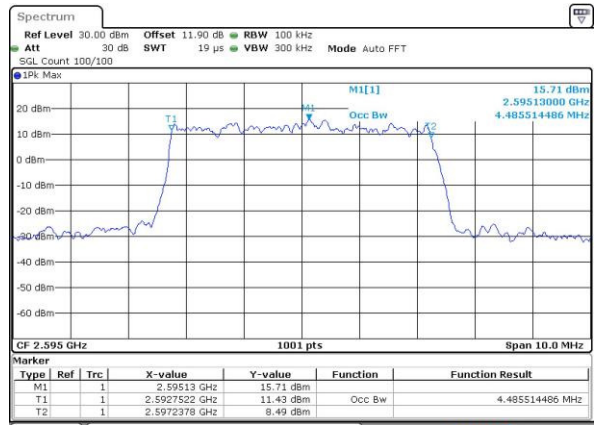
Date: 22 MAR 2017 20:51:32

Middle Channel / 5MHz / QPSK



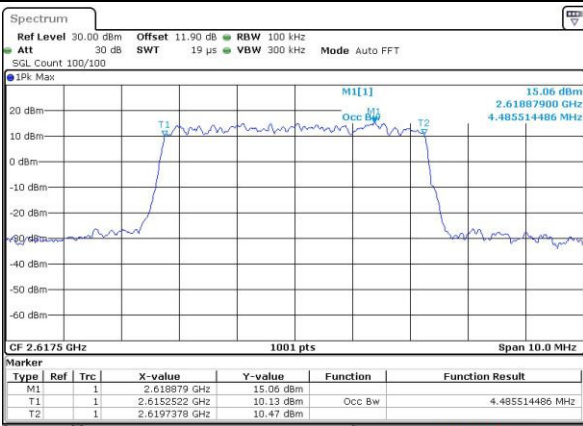
Date: 22 MAR 2017 20:52:03

Middle Channel / 5MHz / 16QAM



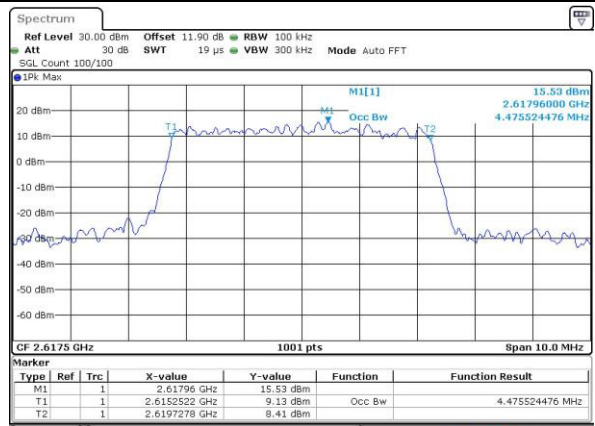
Date: 22 MAR 2017 20:52:13

Highest Channel / 5MHz / QPSK



Date: 22 MAR 2017 20:52:45

Highest Channel / 5MHz / 16QAM

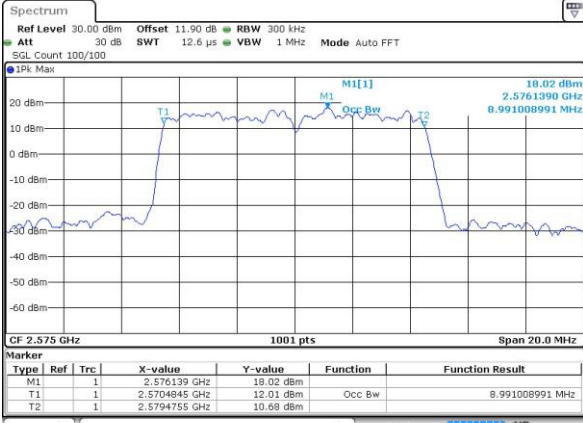


Date: 22 MAR 2017 20:52:55



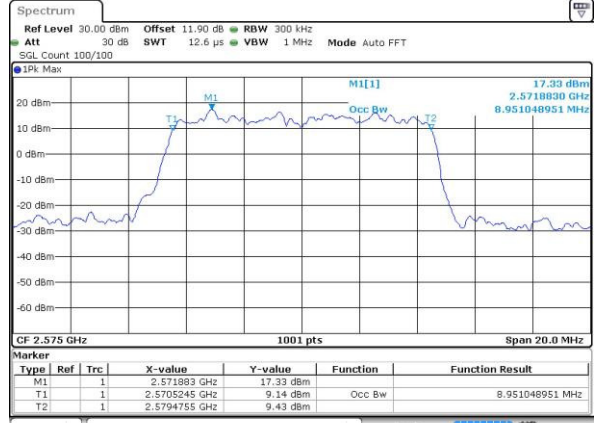
LTE Band 38

Lowest Channel / 10MHz / QPSK



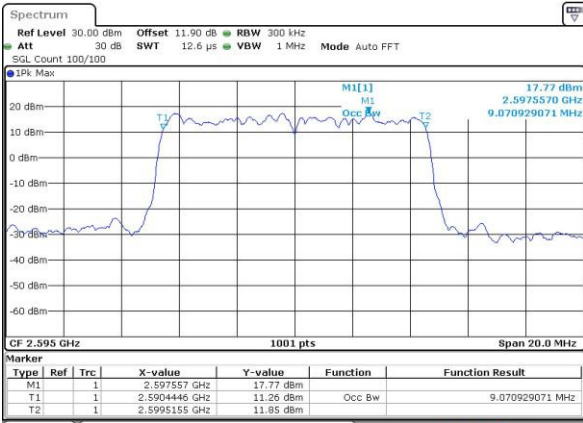
Date: 22 MAR 2017 20:53:26

Lowest Channel / 10MHz / 16QAM



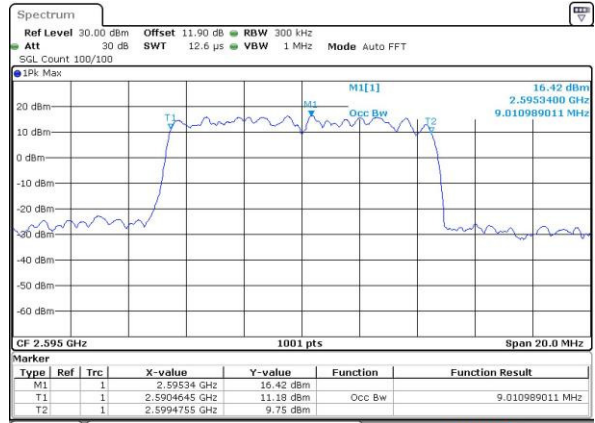
Date: 22 MAR 2017 20:53:36

Middle Channel / 10MHz / QPSK



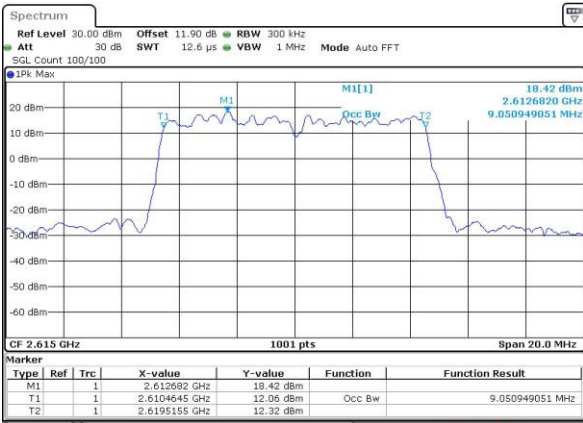
Date: 22 MAR 2017 20:54:08

Middle Channel / 10MHz / 16QAM



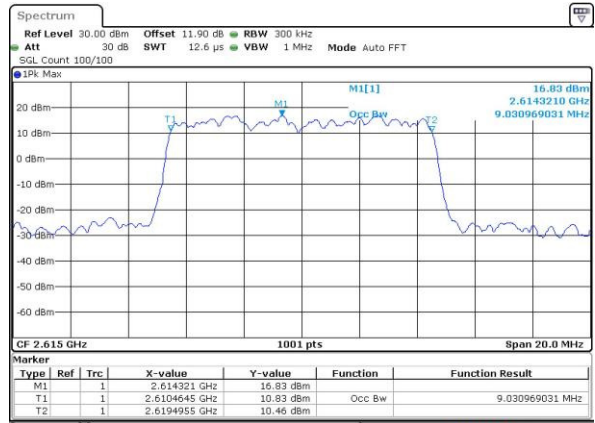
Date: 22 MAR 2017 20:54:18

Highest Channel / 10MHz / QPSK



Date: 22 MAR 2017 20:54:49

Highest Channel / 10MHz / 16QAM



Date: 22 MAR 2017 20:54:59