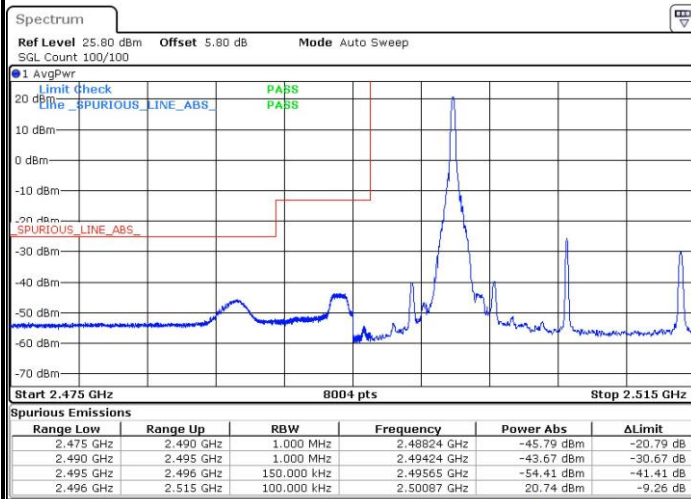




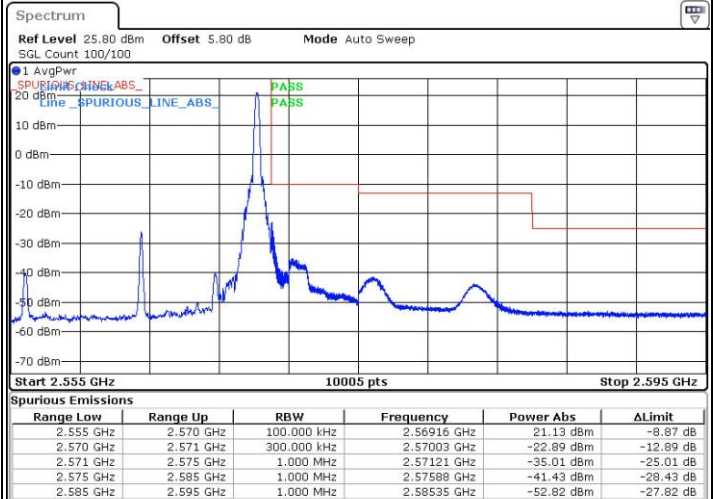
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



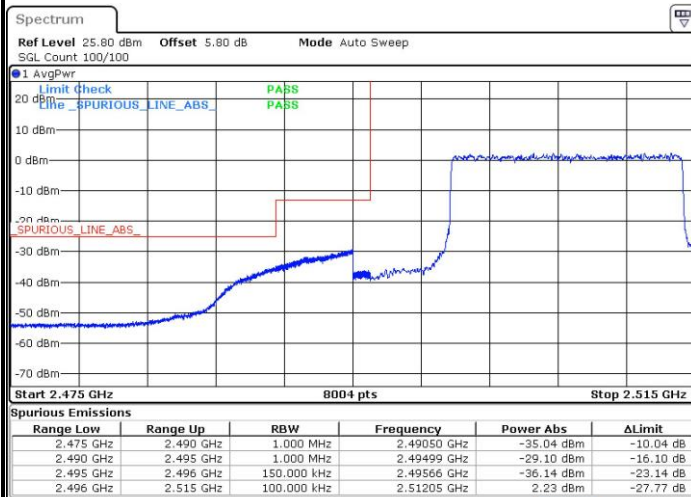
Date: 6 JUN 2016 09:58:01

Highest Band Edge / 1 RB



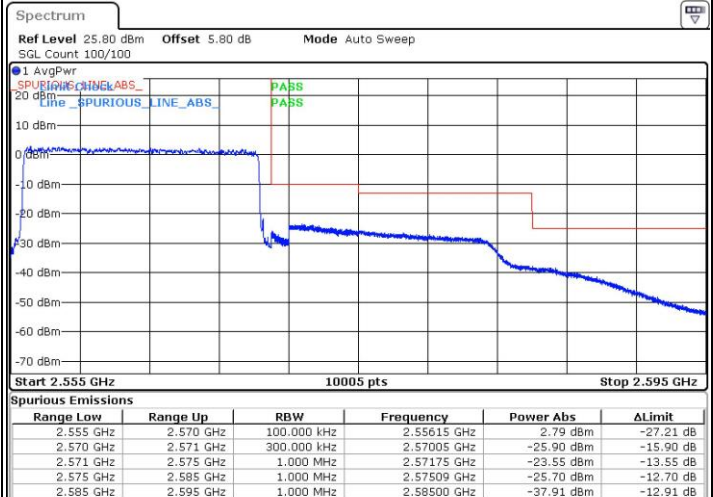
Date: 6 JUN 2016 10:06:01

Lowest Band Edge / Full RB



Date: 6 JUN 2016 10:01:27

Highest Band Edge / Full RB

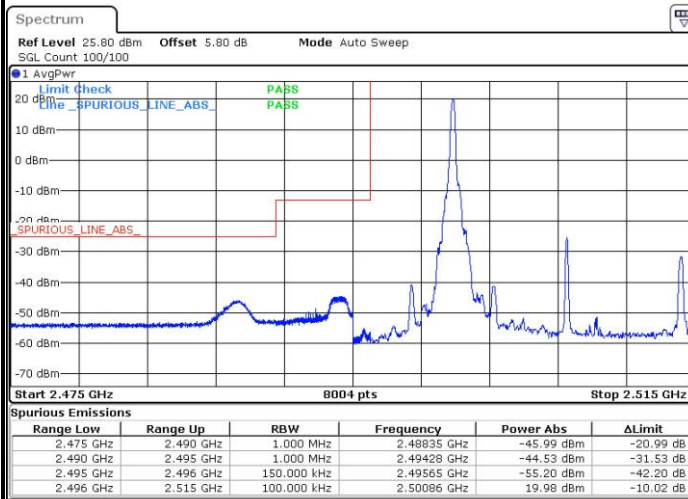


Date: 6 JUN 2016 10:02:35



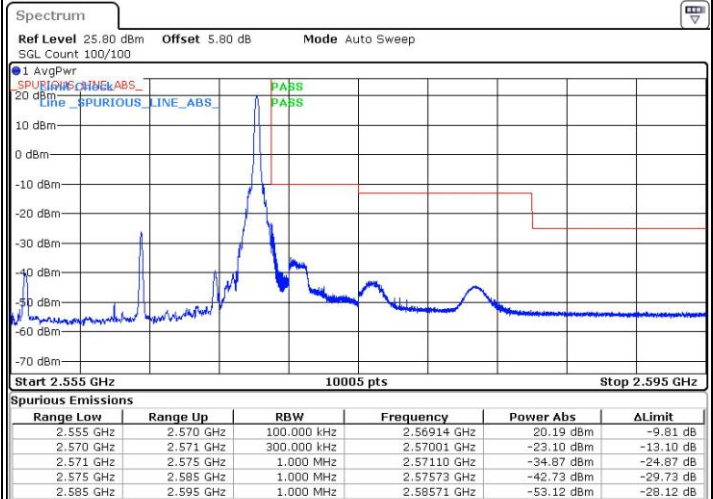
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



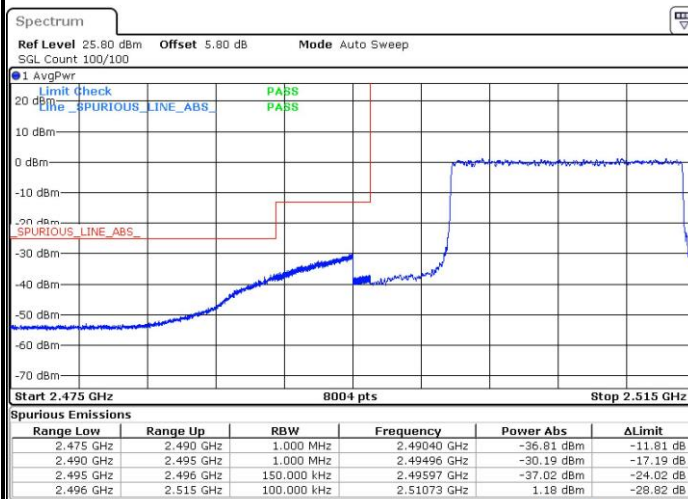
Date: 6 JUN 2016 09:59:10

Highest Band Edge / 1 RB



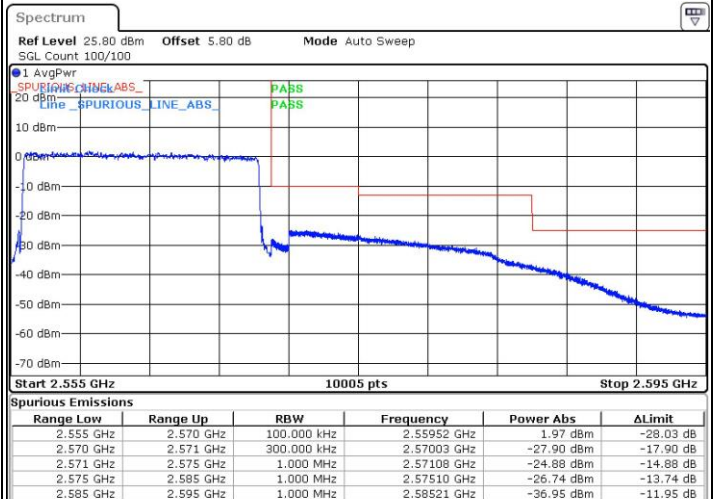
Date: 6 JUN 2016 10:04:52

Lowest Band Edge / Full RB



Date: 6 JUN 2016 10:00:18

Highest Band Edge / Full RB

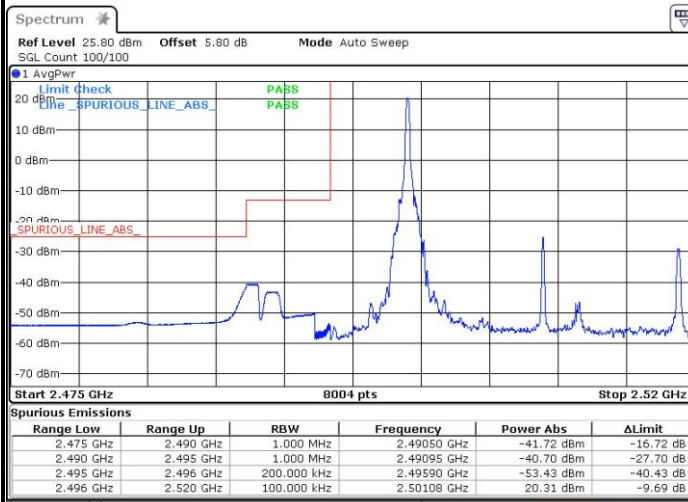


Date: 6 JUN 2016 10:03:44



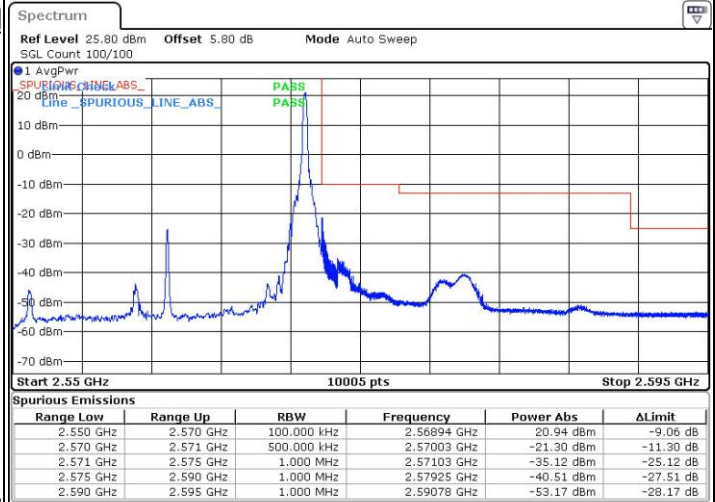
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



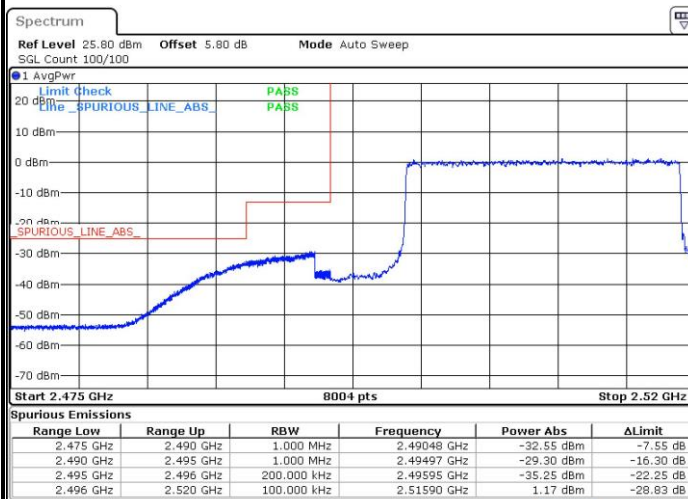
Date: 6 JUN 2016 10:31:54

Highest Band Edge / 1 RB



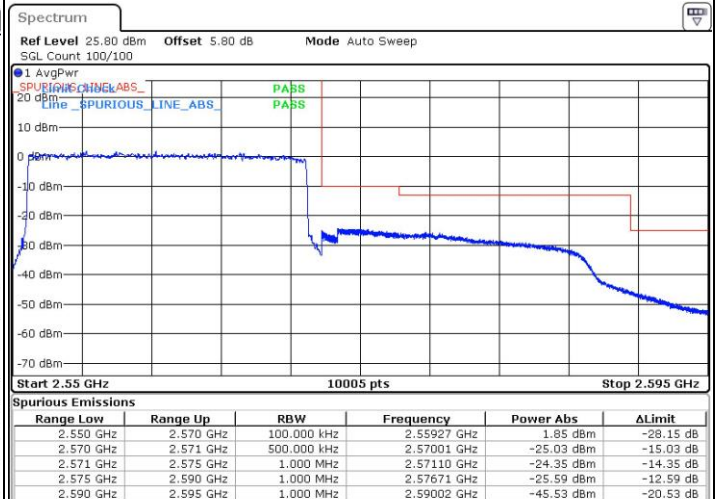
Date: 6 JUN 2016 10:22:42

Lowest Band Edge / Full RB



Date: 6 JUN 2016 10:18:08

Highest Band Edge / Full RB

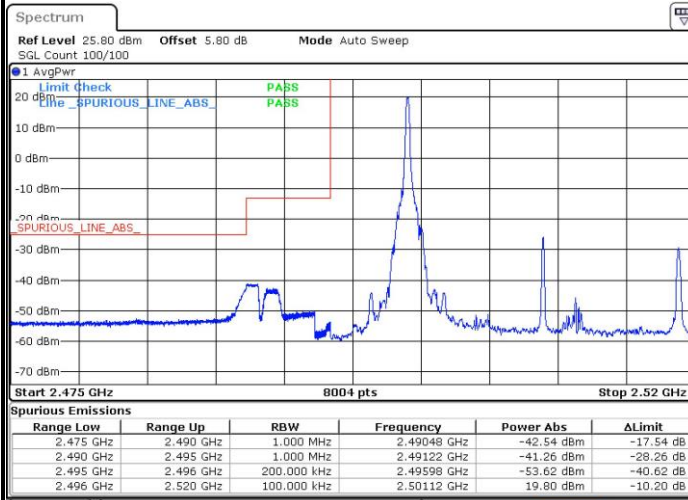


Date: 6 JUN 2016 10:19:17



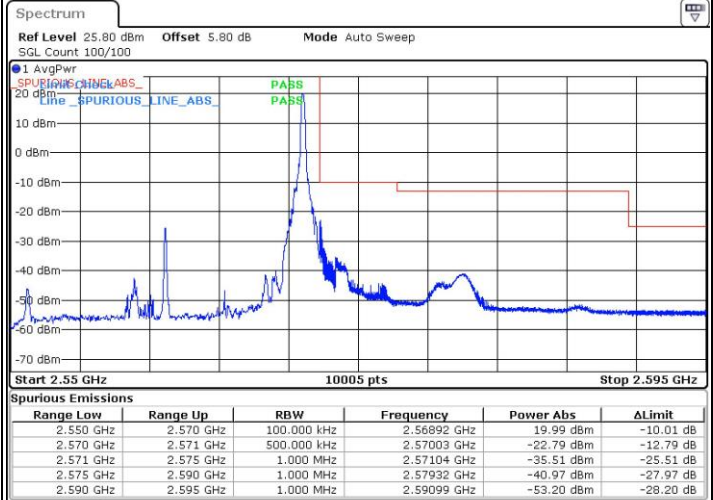
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



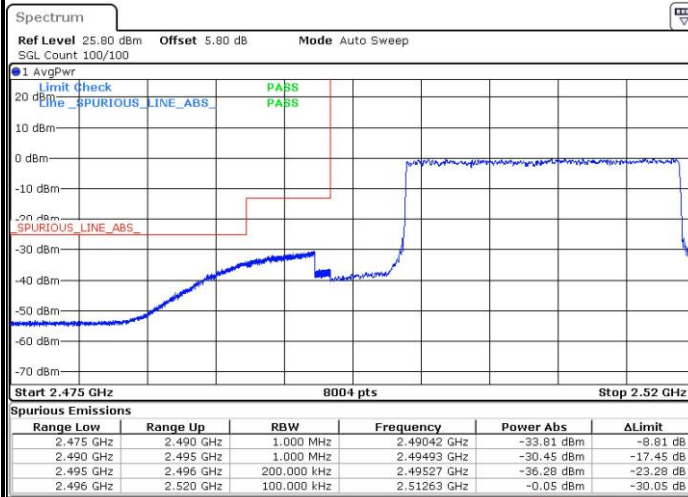
Date: 6 JUN 2016 10:15:52

Highest Band Edge / 1RB



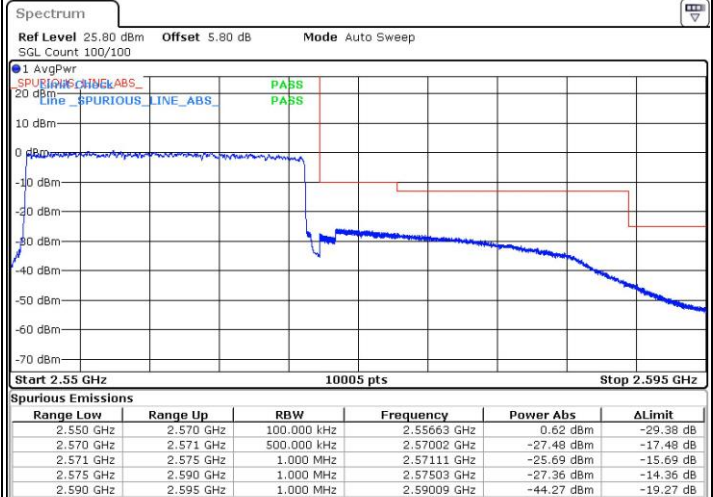
Date: 6 JUN 2016 10:21:34

Lowest Band Edge / Full RB



Date: 6 JUN 2016 10:17:00

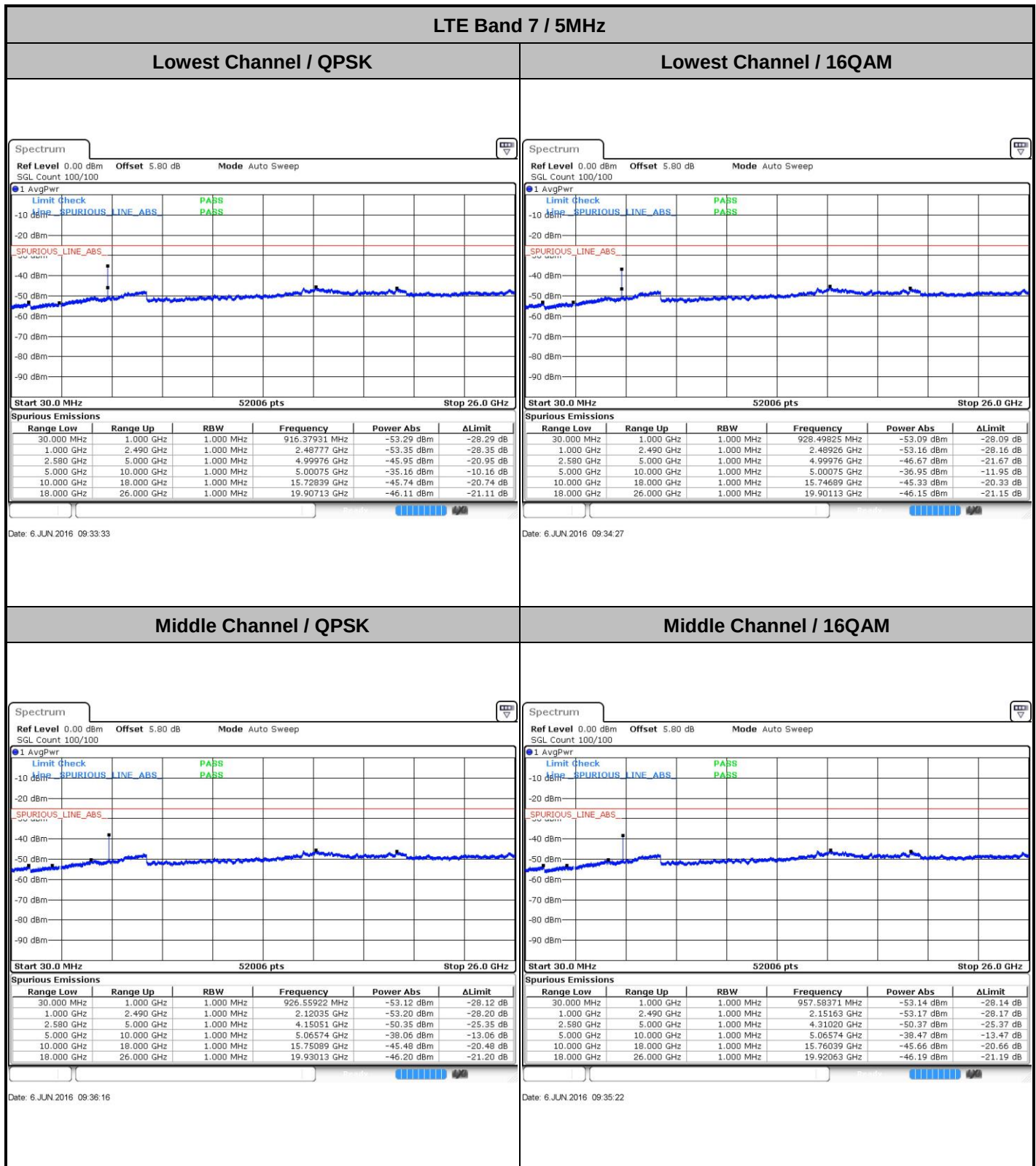
Highest Band Edge / Full RB



Date: 6 JUN 2016 10:20:25



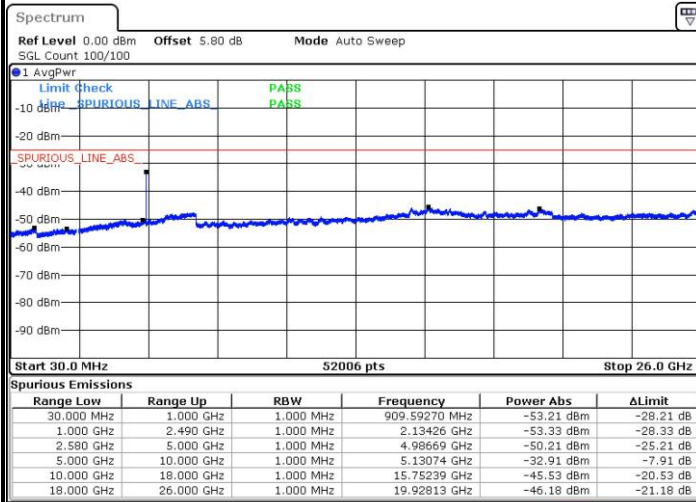
Conducted Spurious Emission





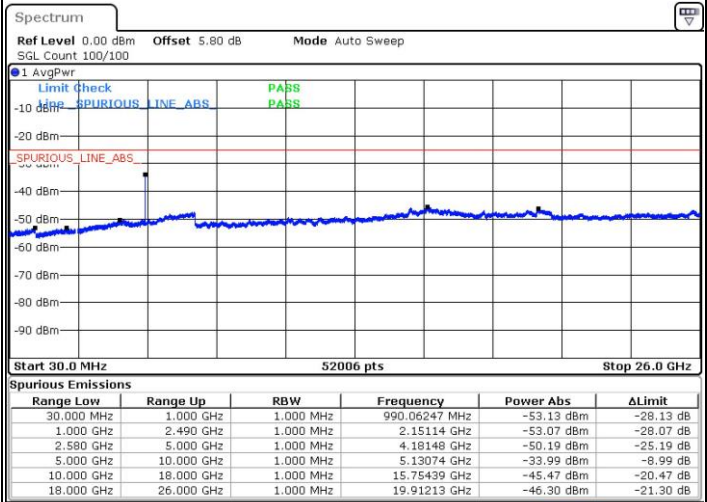
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 6 JUN 2016 09:37:11

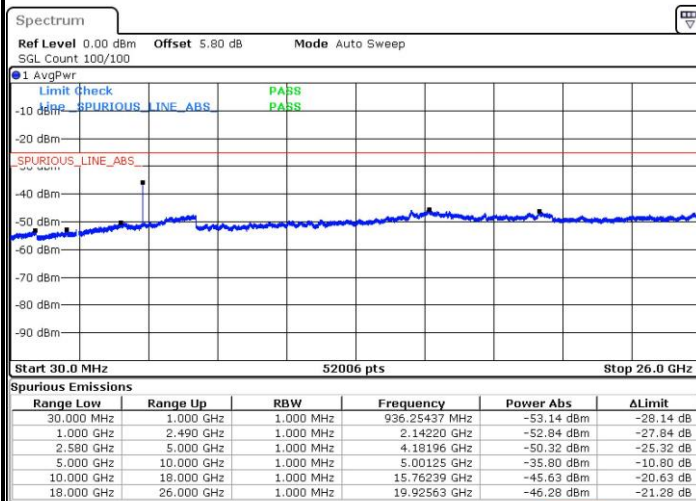
Highest Channel / 16QAM



Date: 6 JUN 2016 09:38:06

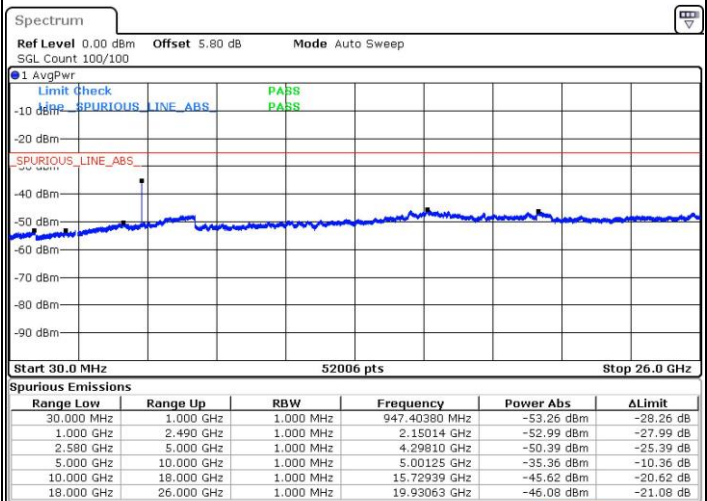
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 6 JUN 2016 09:50:13

Lowest Channel / 16QAM

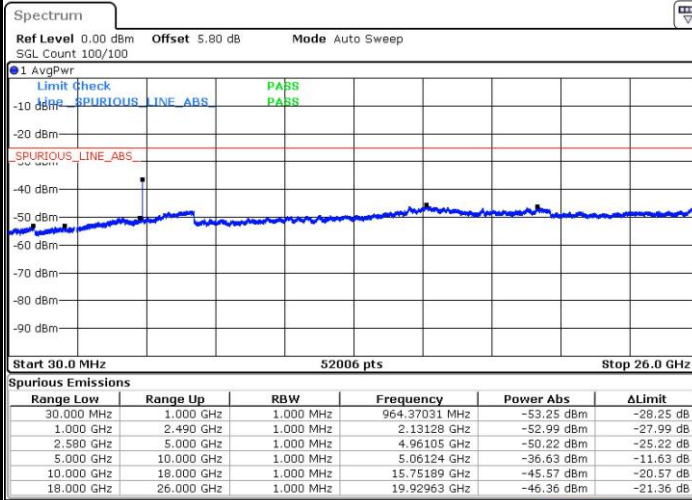


Date: 6 JUN 2016 09:51:08



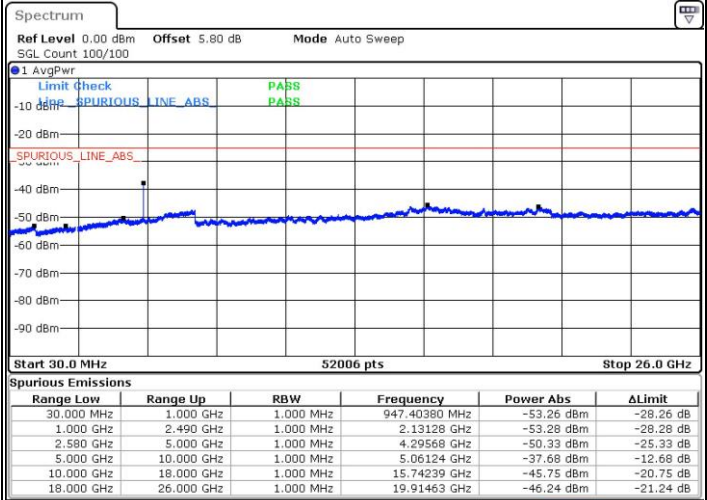
LTE Band 7 / 10MHz

Middle Channel / QPSK



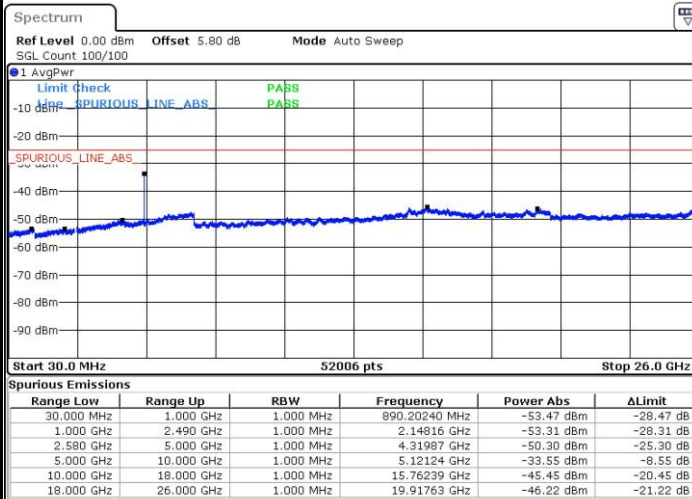
Date: 6 JUN 2016 09:52:57

Middle Channel / 16QAM



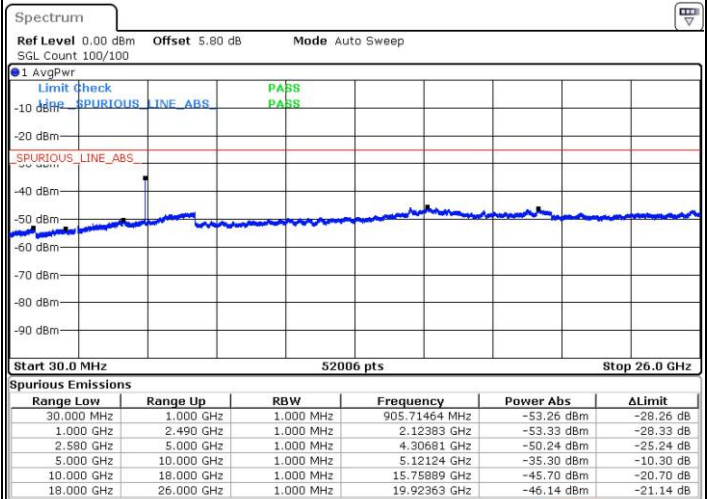
Date: 6 JUN 2016 09:52:02

Highest Channel / QPSK



Date: 6 JUN 2016 09:53:52

Highest Channel / 16QAM

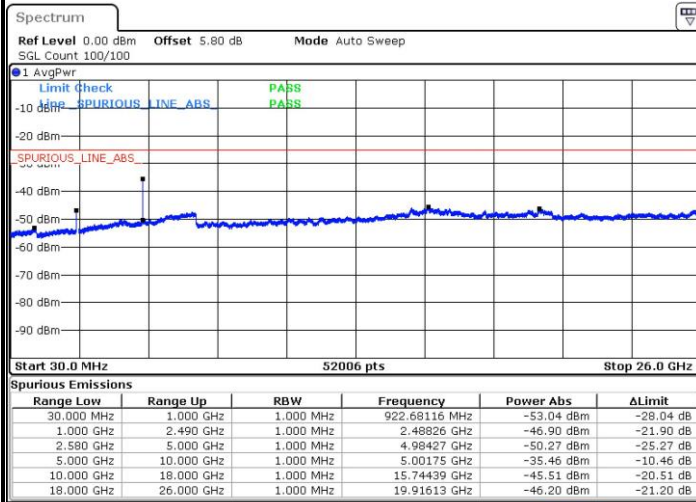


Date: 6 JUN 2016 09:54:46



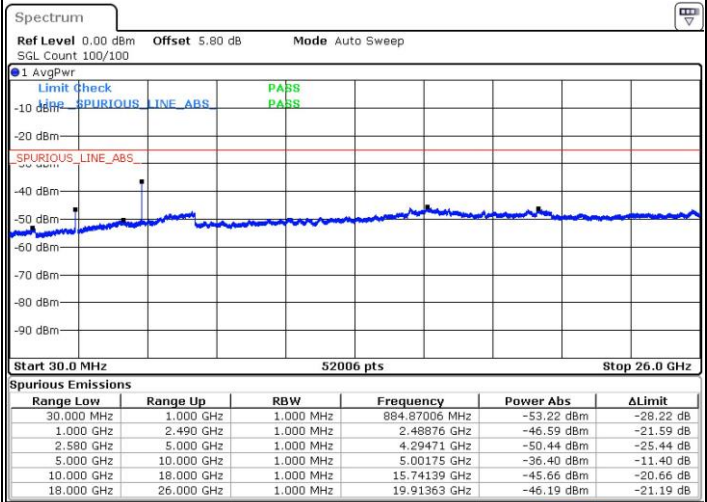
LTE Band 7 / 15MHz

Lowest Channel / QPSK



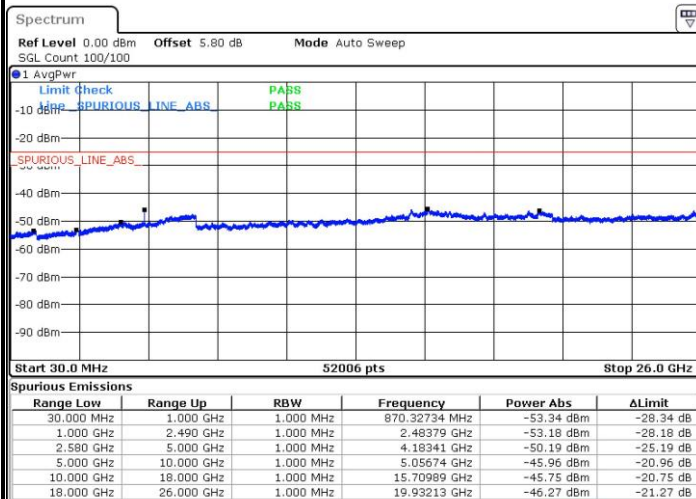
Date: 6 JUN 2016 10:06:54

Lowest Channel / 16QAM



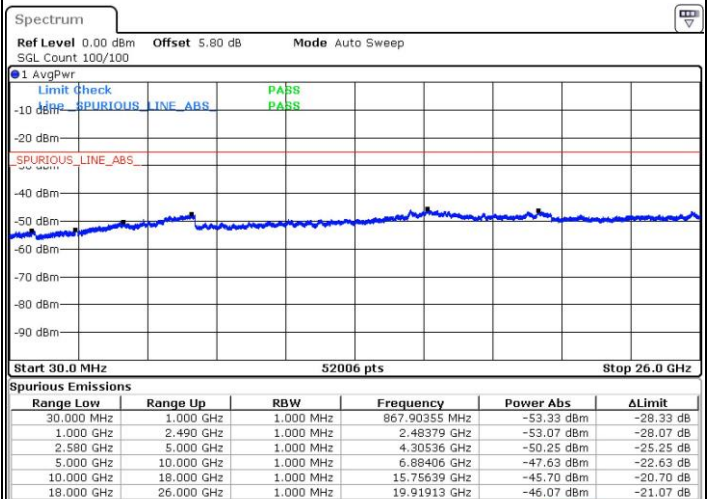
Date: 6 JUN 2016 10:07:48

Middle Channel / QPSK



Date: 6 JUN 2016 10:09:38

Middle Channel / 16QAM

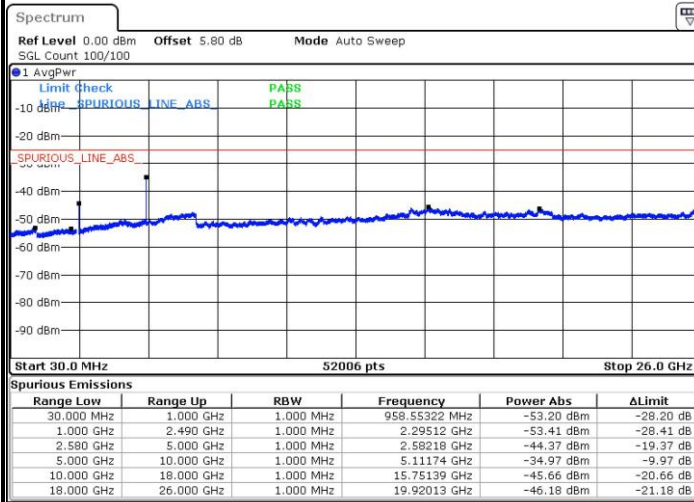


Date: 6 JUN 2016 10:08:43



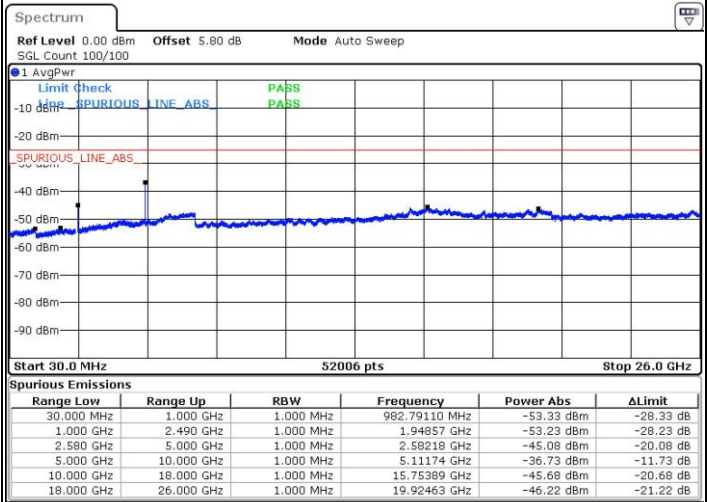
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 6 JUN 2016 10:10:32

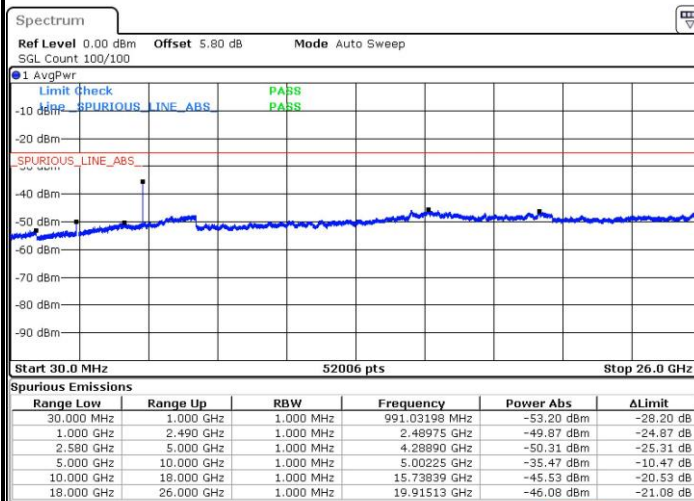
Highest Channel / 16QAM



Date: 6 JUN 2016 10:11:27

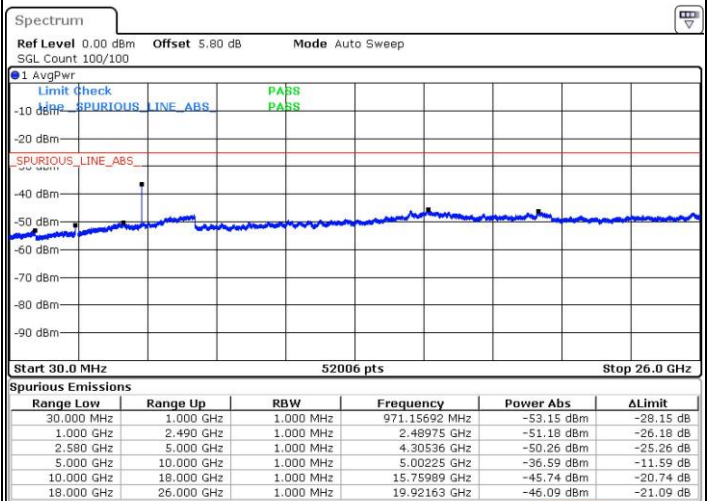
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 6 JUN 2016 10:23:36

Lowest Channel / 16QAM

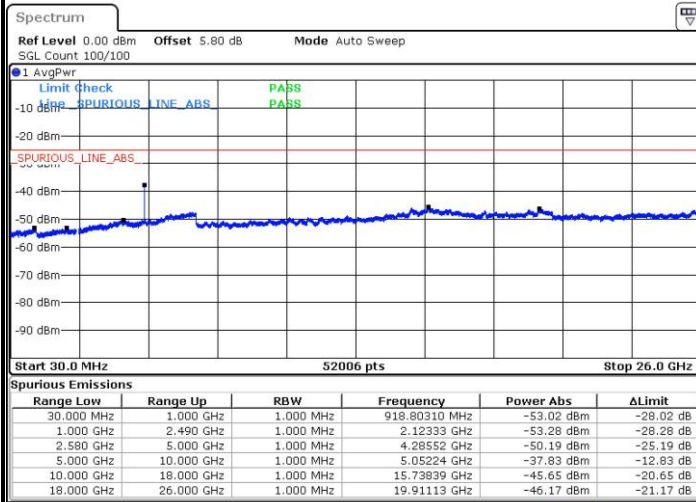


Date: 6 JUN 2016 10:24:30



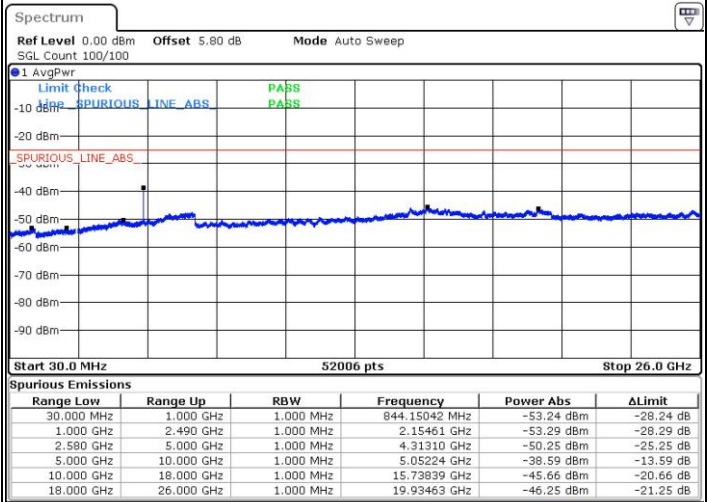
LTE Band 7 / 20MHz

Middle Channel / QPSK



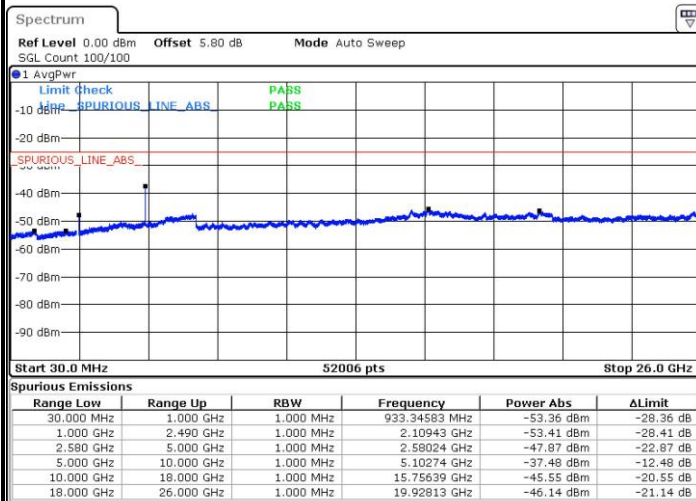
Date: 6 JUN 2016 10:26:20

Middle Channel / 16QAM



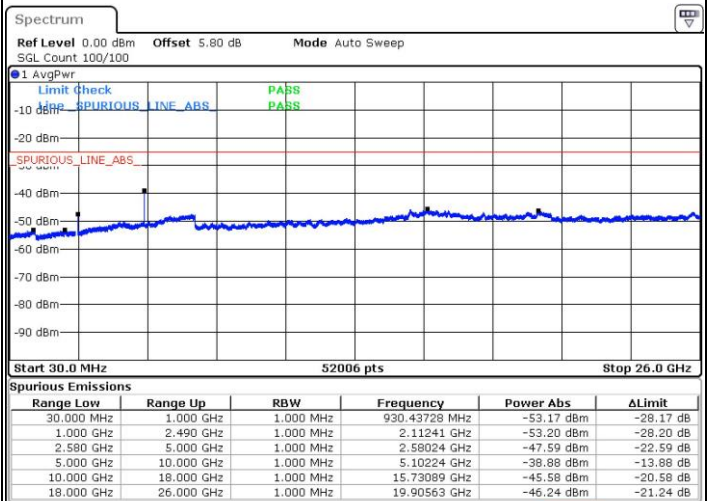
Date: 6 JUN 2016 10:25:25

Highest Channel / QPSK



Date: 6 JUN 2016 10:27:14

Highest Channel / 16QAM



Date: 6 JUN 2016 10:28:09

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	0.0010	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0020	
20	Battery End Point	0.0039	

Note:

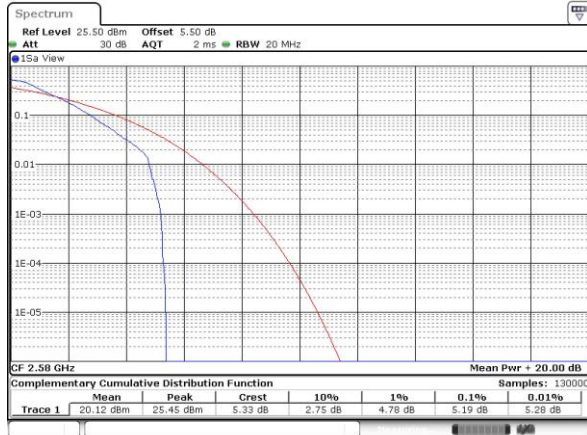
1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



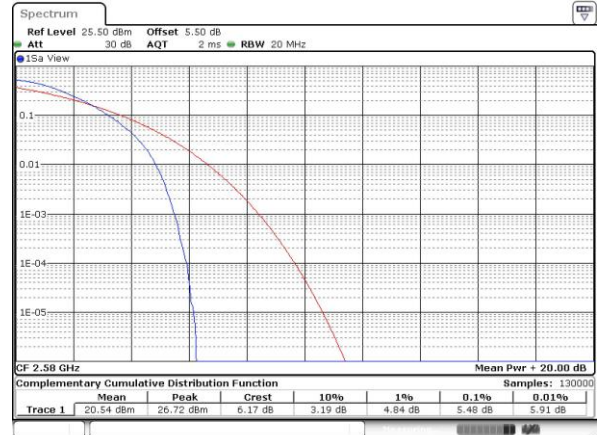
LTE Band 38

Peak-to-Average Ratio

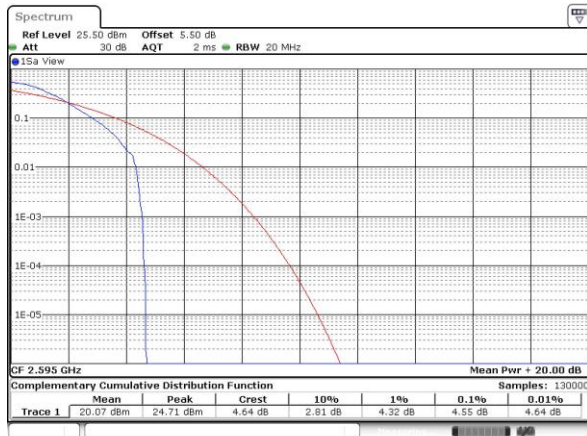
Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.19	5.48	5.57	5.68	PASS
Middle CH	4.55	5.10	5.97	6.43	
Highest CH	4.55	5.59	5.83	6.29	

LTE Band 38 / 20MHz / QPSK
Lowest Channel / 1RB


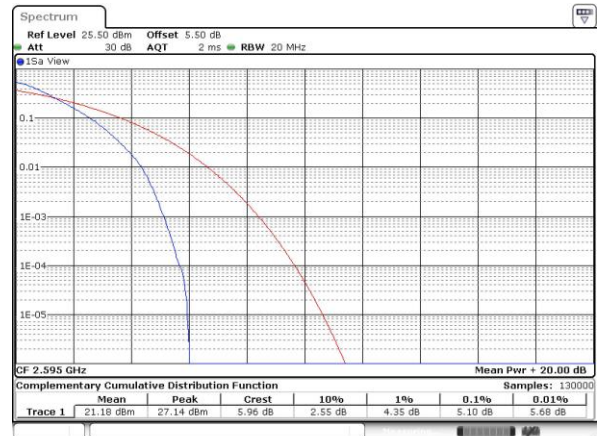
Date: 6 JUN 2016 20:27:41

Lowest Channel / Full RB


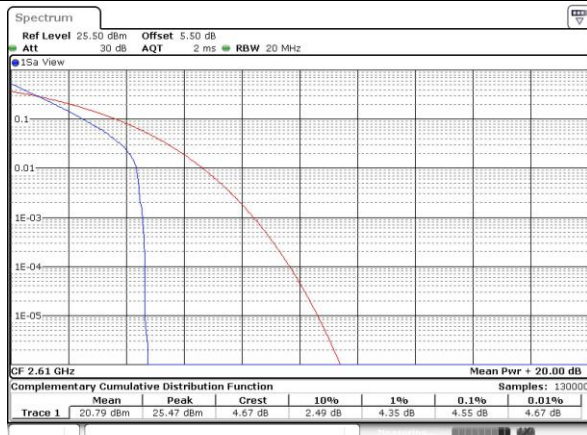
Date: 6 JUN 2016 20:27:55

Middle Channel / 1RB


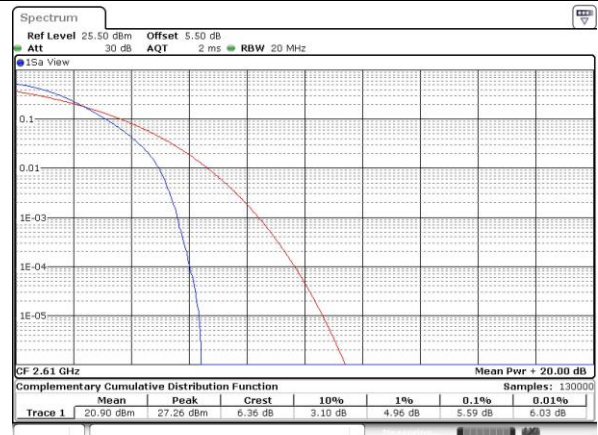
Date: 6 JUN 2016 20:25:15

Middle Channel / Full RB


Date: 6 JUN 2016 20:25:34

Highest Channel / 1RB


Date: 6 JUN 2016 20:26:30

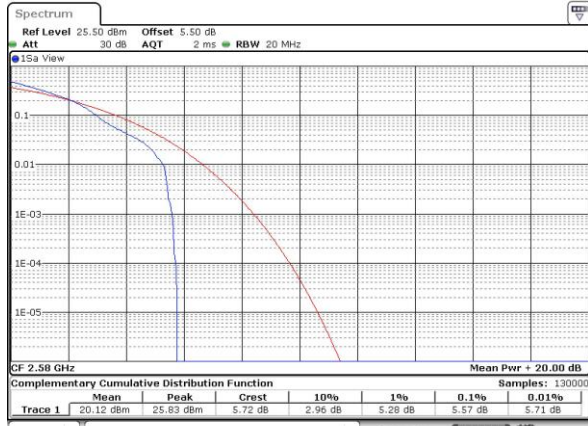
Highest Channel / Full RB


Date: 6 JUN 2016 20:26:18



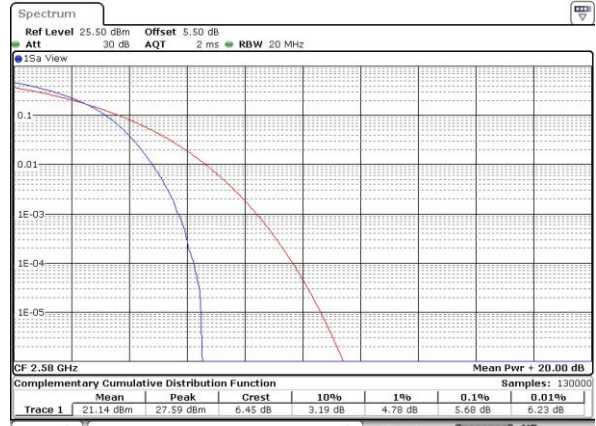
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



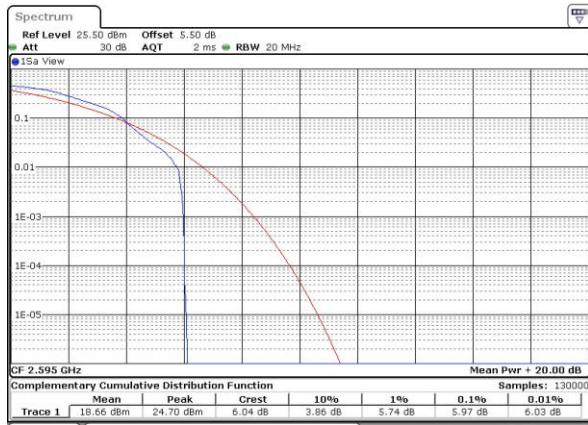
Date: 6 JUN 2016 20:27:08

Lowest Channel / Full RB



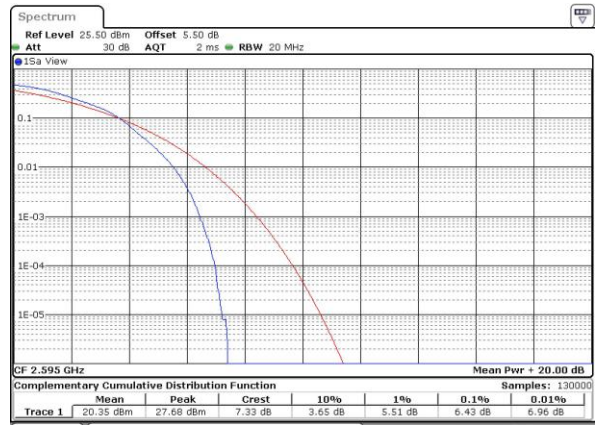
Date: 6 JUN 2016 20:28:13

Middle Channel / 1RB



Date: 6 JUN 2016 20:24:58

Middle Channel / Full RB



Date: 6 JUN 2016 20:25:50

Highest Channel / 1RB



Date: 6 JUN 2016 20:26:51

Highest Channel / Full RB



Date: 6 JUN 2016 20:26:03

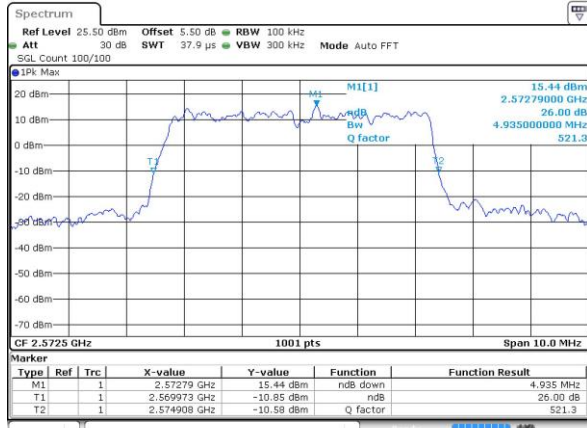
**26dB Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.935	4.895	9.650	9.630	14.116	14.206	20.140	20.060
Middle CH	-	-	-	-	4.935	4.715	9.630	9.650	14.356	14.146	20.220	20.300
Highest CH	-	-	-	-	5.155	4.795	9.750	10.01	14.326	14.086	20.220	20.020

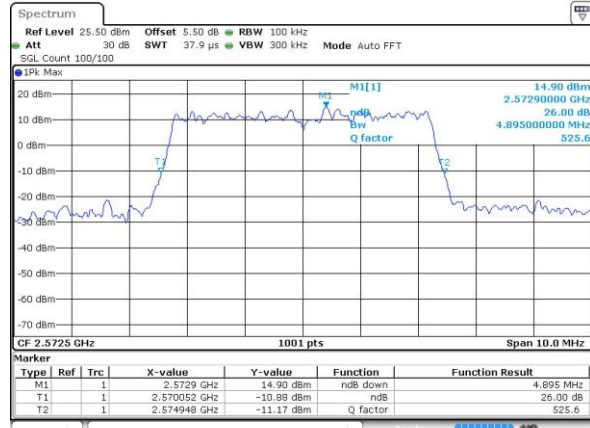


LTE Band 38

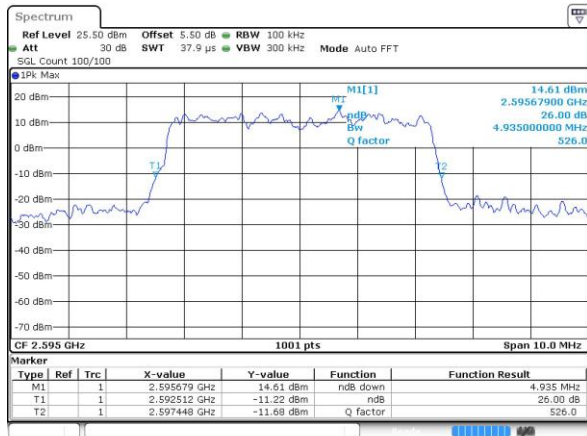
Lowest Channel / 5MHz / QPSK



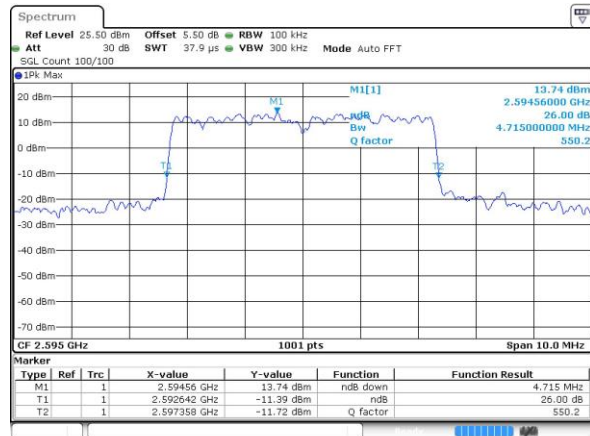
Lowest Channel / 5MHz / 16QAM



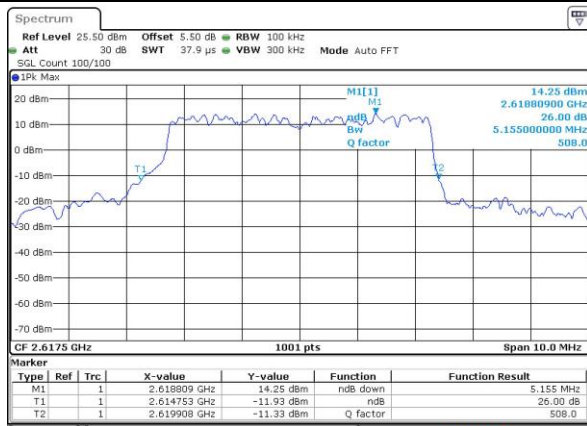
Middle Channel / 5MHz / QPSK



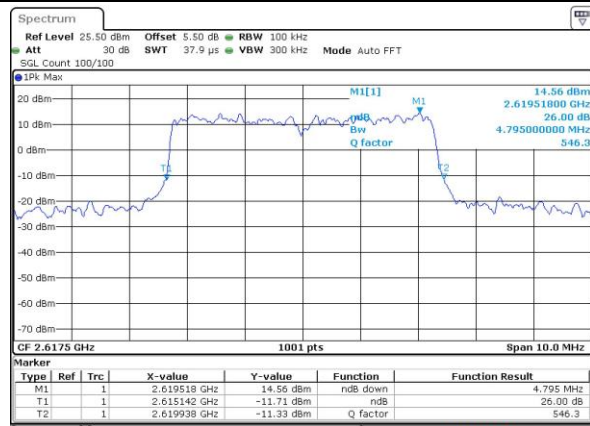
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



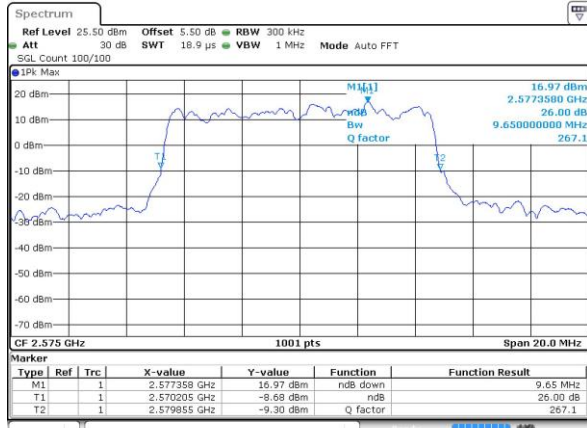
Highest Channel / 5MHz / 16QAM



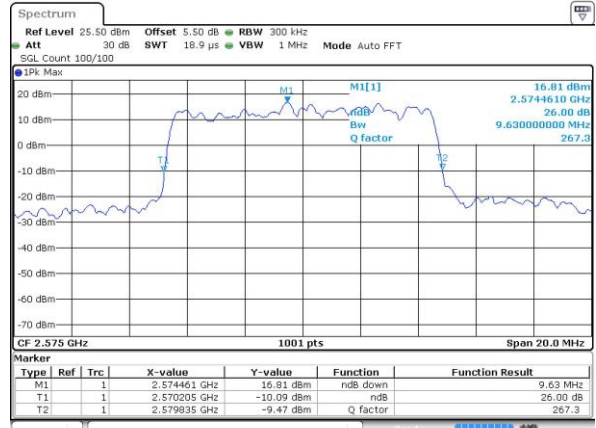


LTE Band 38

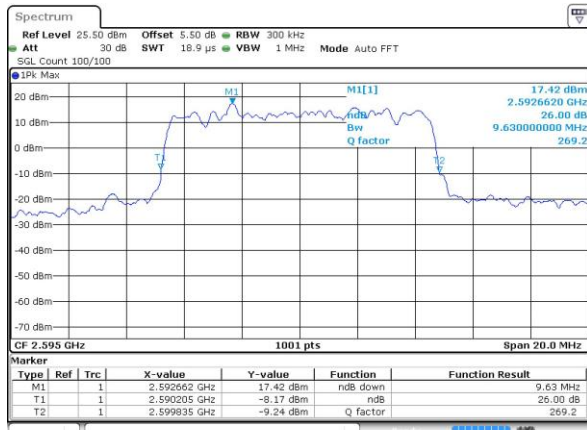
Lowest Channel / 10MHz / QPSK



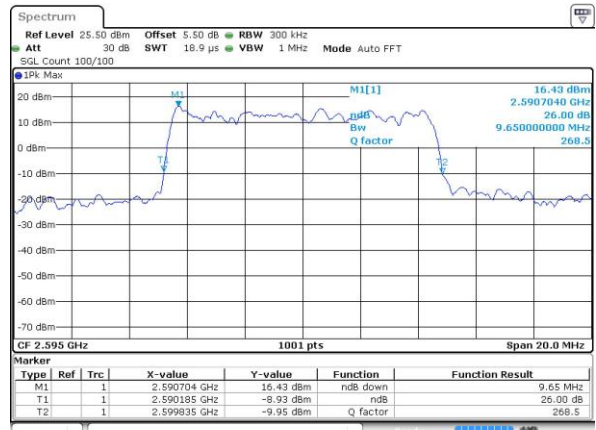
Lowest Channel / 10MHz / 16QAM



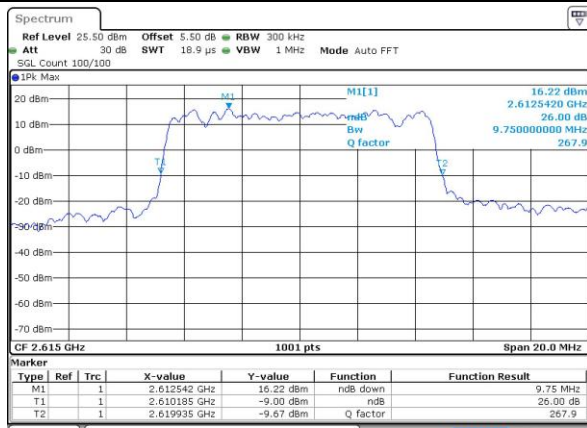
Middle Channel / 10MHz / QPSK



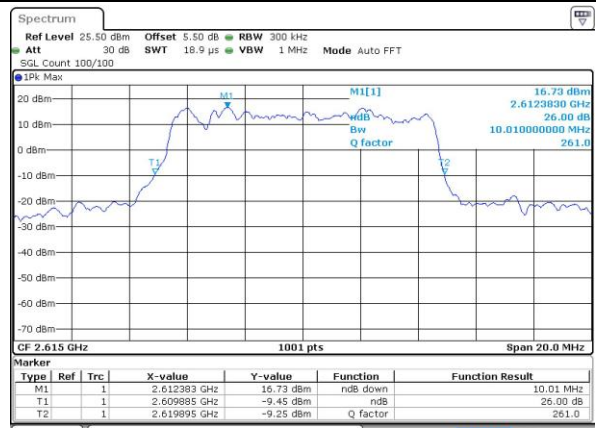
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



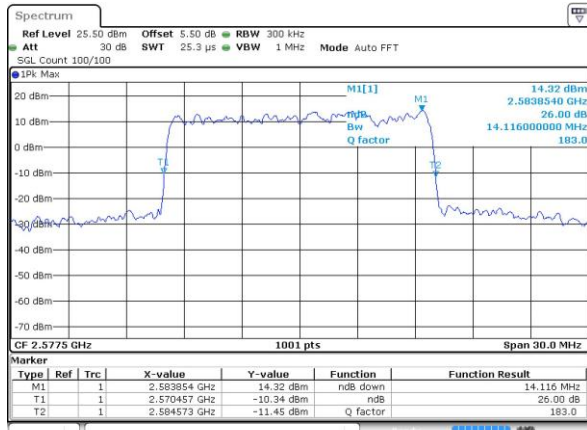
Highest Channel / 10MHz / 16QAM



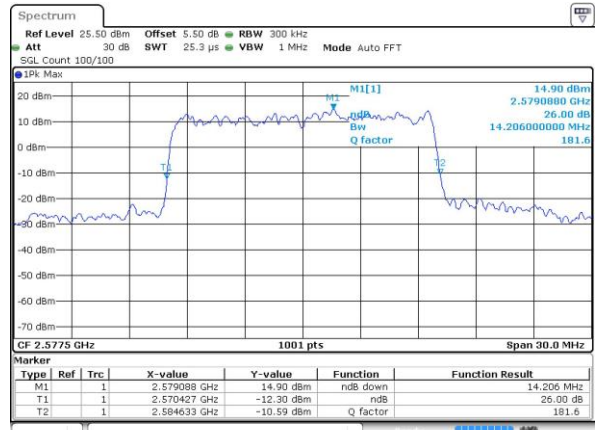


LTE Band 38

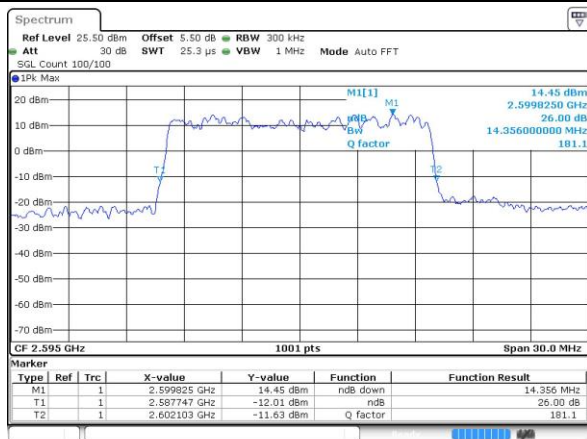
Lowest Channel / 15MHz / QPSK



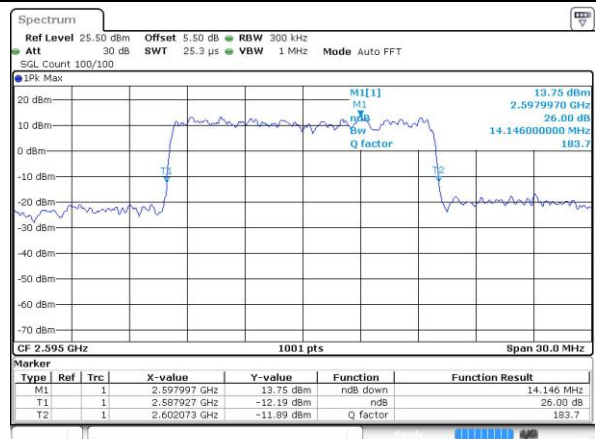
Lowest Channel / 15MHz / 16QAM



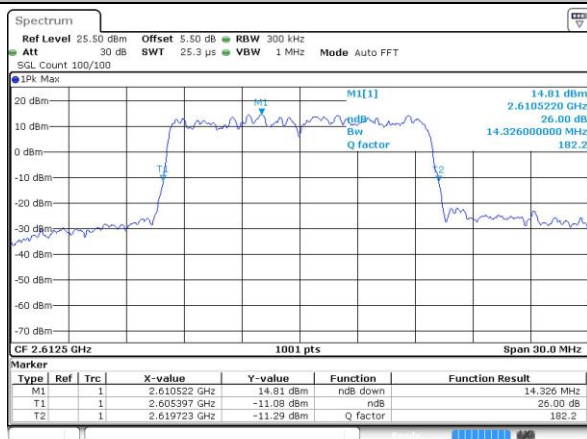
Middle Channel / 15MHz / QPSK



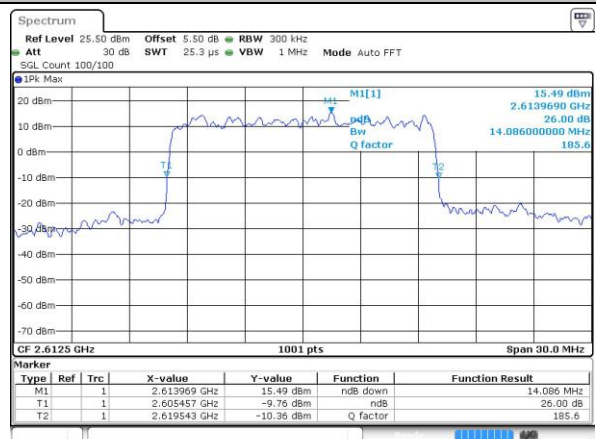
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



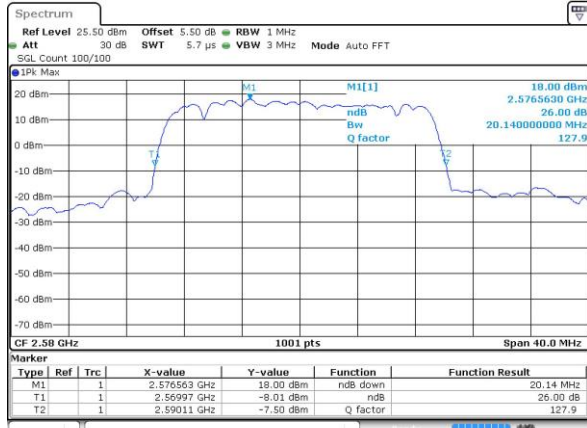
Highest Channel / 15MHz / 16QAM



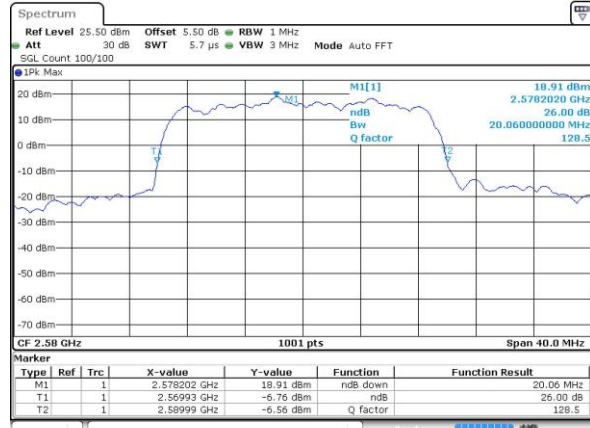


LTE Band 38

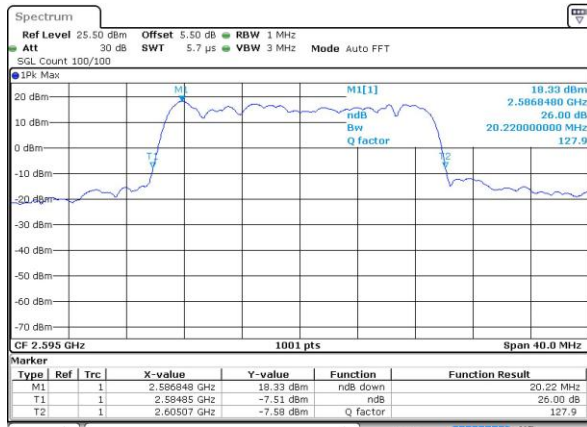
Lowest Channel / 20MHz / QPSK



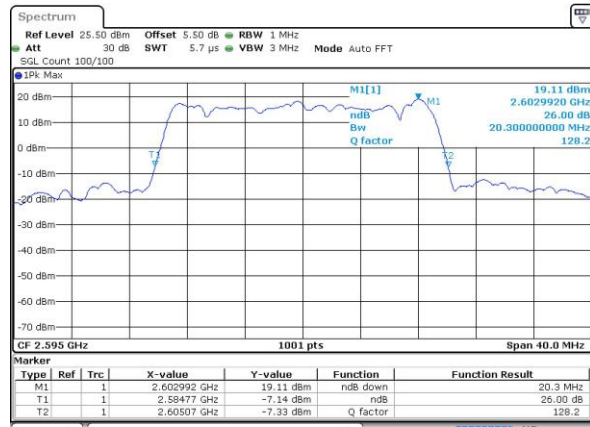
Lowest Channel / 20MHz / 16QAM



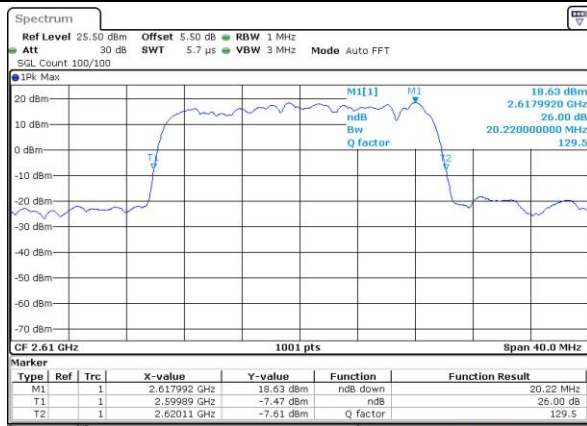
Middle Channel / 20MHz / QPSK



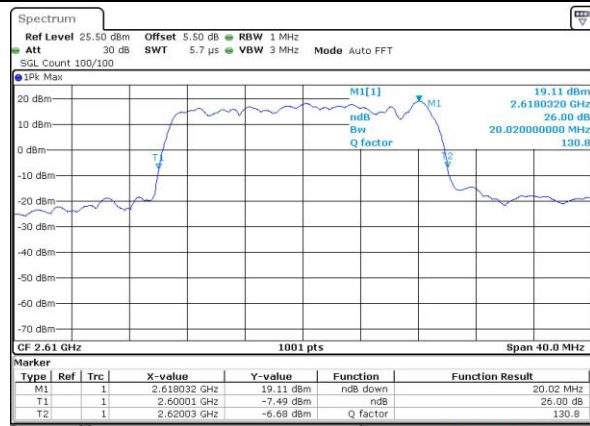
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



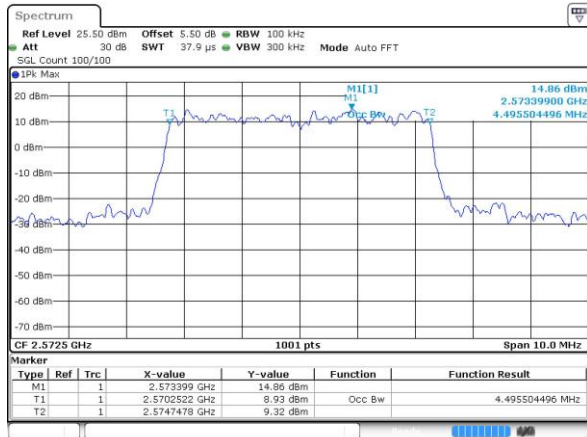
**Occupied Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.50	4.50	9.05	9.01	13.31	13.52	18.06	18.18
Middle CH	-	-	-	-	4.51	4.52	9.09	9.05	13.46	13.40	18.38	18.42
Highest CH	-	-	-	-	4.48	4.50	9.01	9.05	13.40	13.43	18.26	18.10

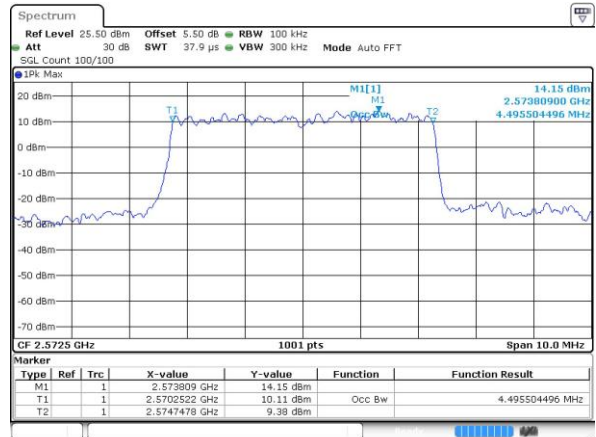


LTE Band 38

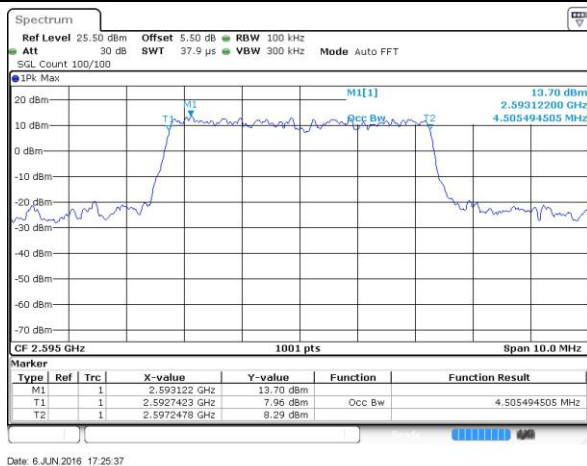
Lowest Channel / 5MHz / QPSK



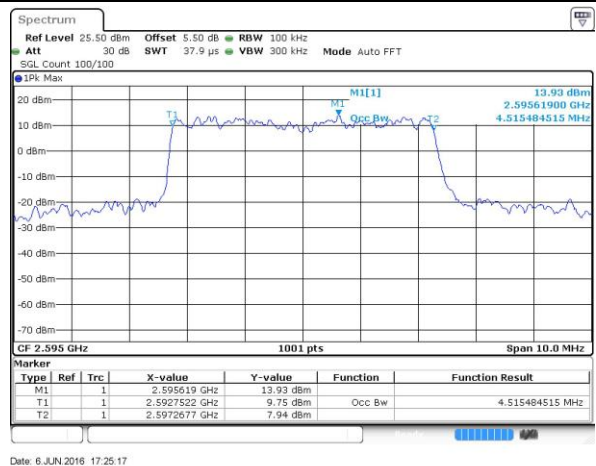
Lowest Channel / 5MHz / 16QAM



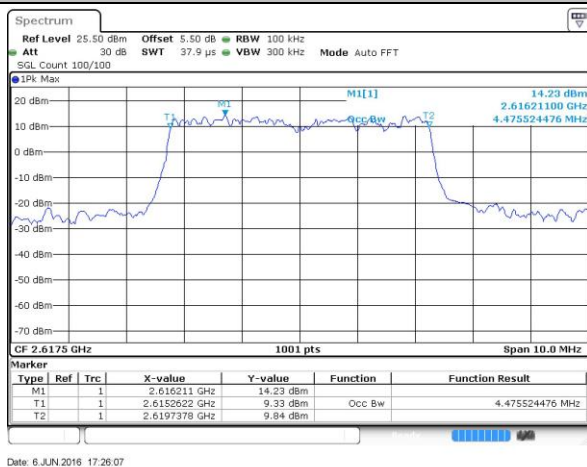
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM

