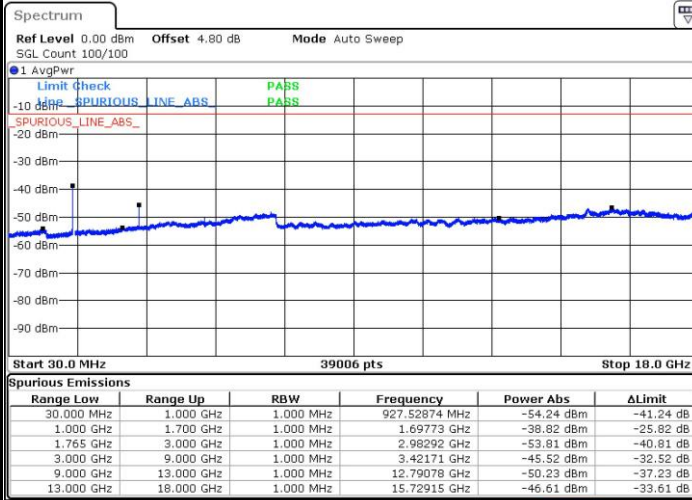




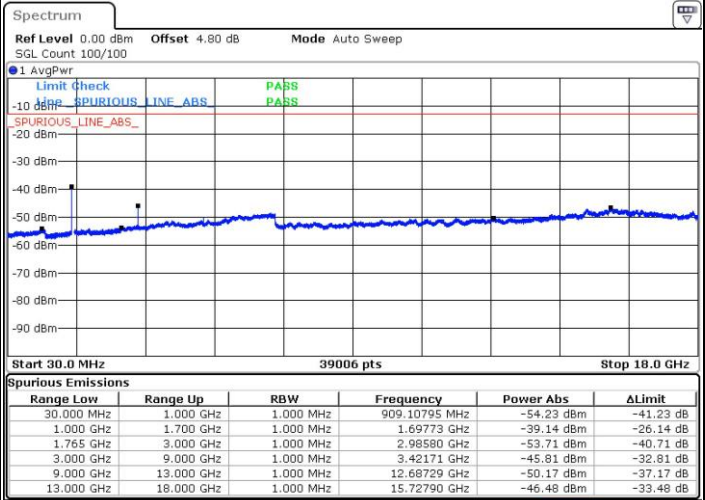
LTE Band 4 / 15MHz

Lowest Channel / QPSK



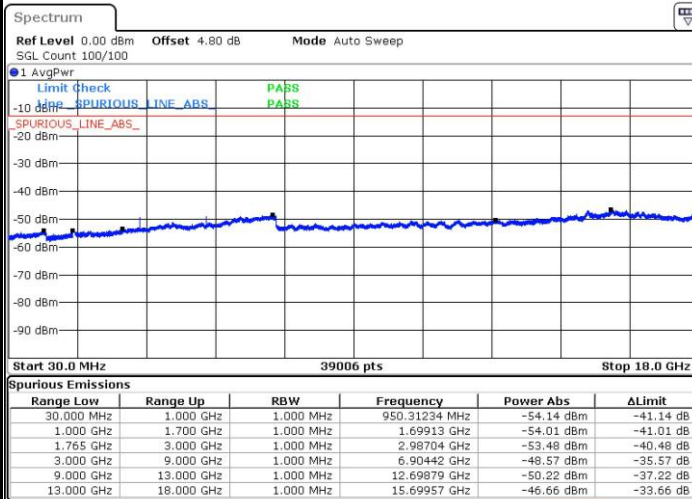
Date: 4 JUN 2016 12:46:17

Lowest Channel / 16QAM



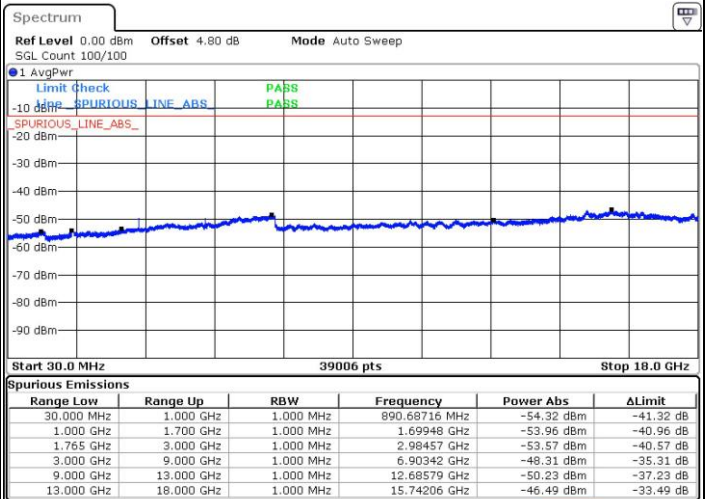
Date: 4 JUN 2016 12:47:13

Middle Channel / QPSK



Date: 4 JUN 2016 12:48:50

Middle Channel / 16QAM

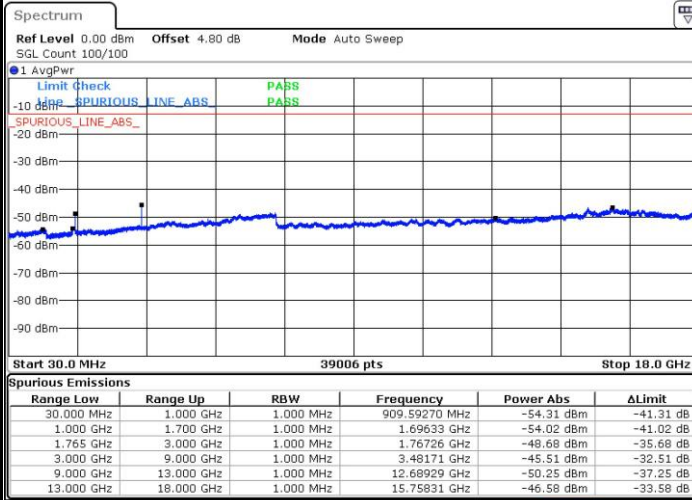


Date: 4 JUN 2016 12:49:46



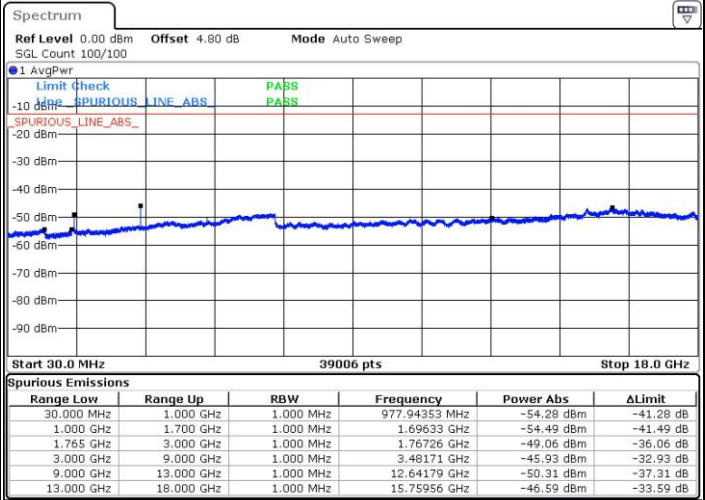
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 4 JUN 2016 12:55:55

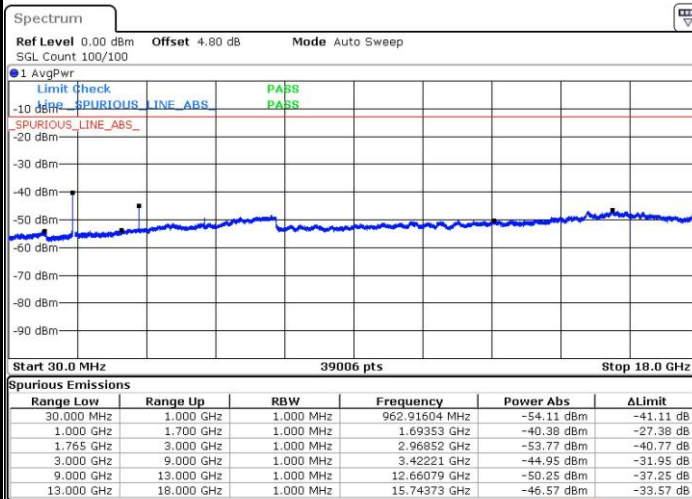
Highest Channel / 16QAM



Date: 4 JUN 2016 12:56:50

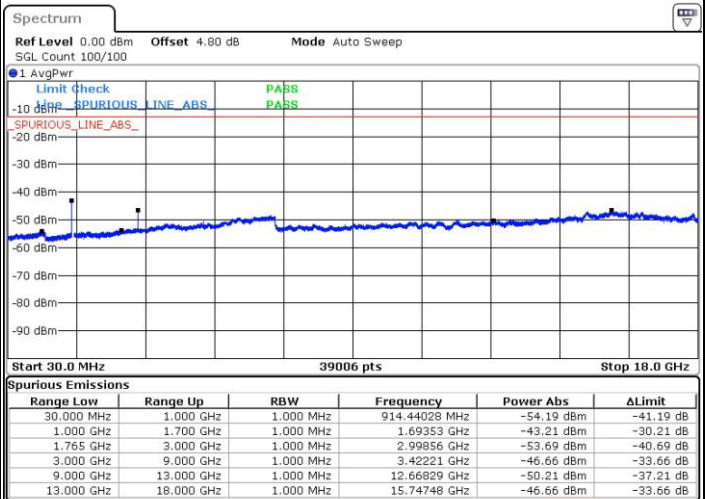
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 4 JUN 2016 13:03:00

Lowest Channel / 16QAM

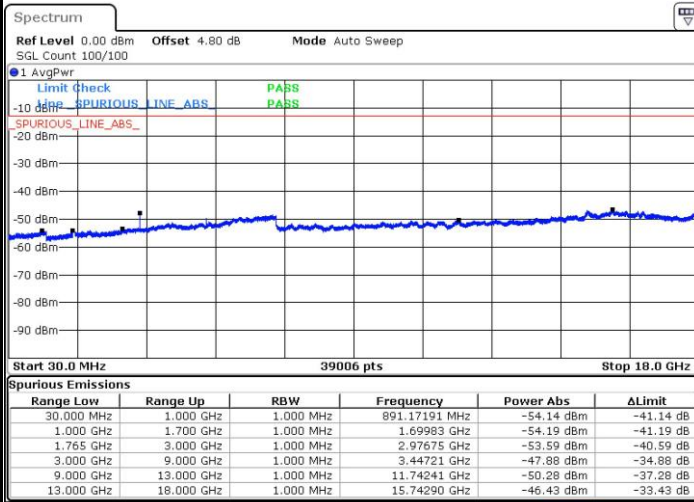


Date: 4 JUN 2016 13:03:55



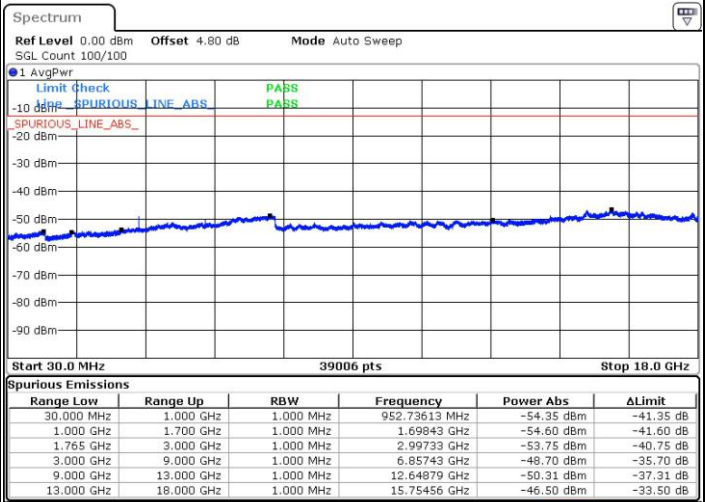
LTE Band 4 / 20MHz

Middle Channel / QPSK



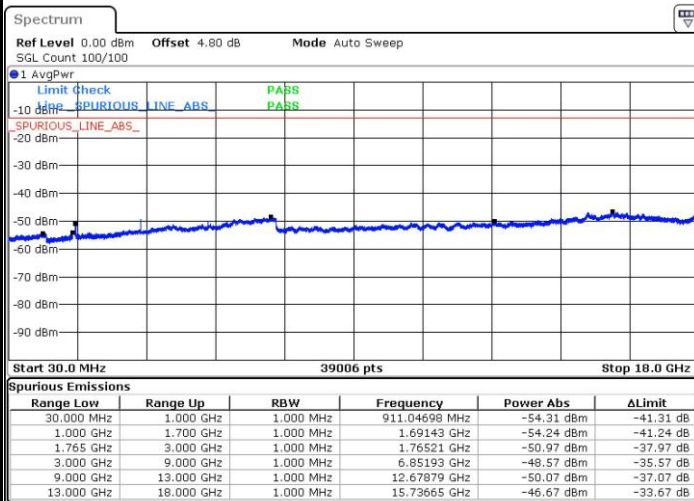
Date: 4 JUN 2016 13:05:32

Middle Channel / 16QAM



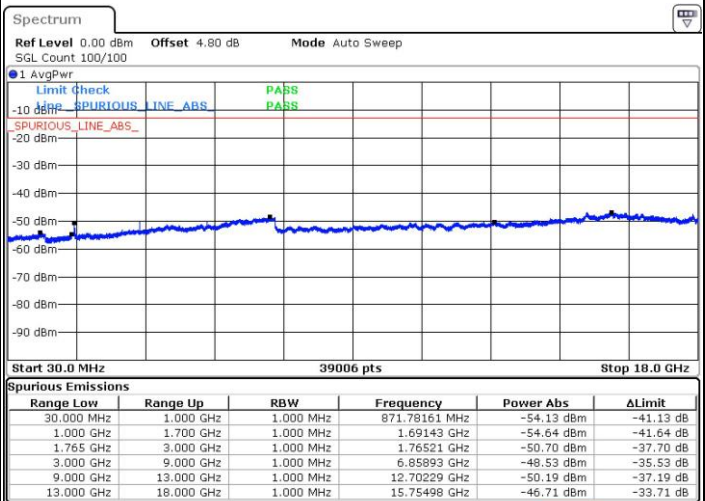
Date: 4 JUN 2016 13:06:28

Highest Channel / QPSK



Date: 4 JUN 2016 13:12:37

Highest Channel / 16QAM



Date: 4 JUN 2016 13:13:33

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	0.0019	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0010	

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 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	3.86	4.75	4.67	5.68	PASS
Middle CH	4.00	4.70	4.55	5.65	
Highest CH	4.03	4.72	4.67	5.68	



LTE Band 7 / 20MHz / QPSK

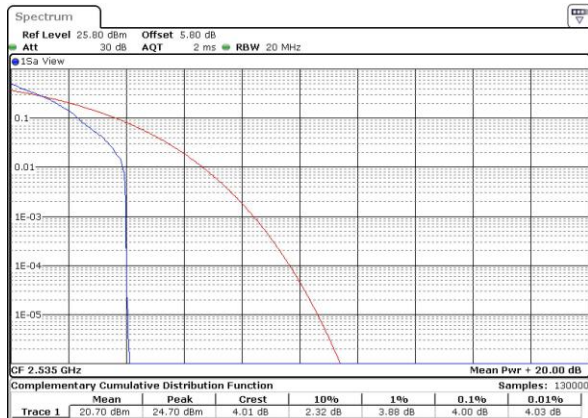
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



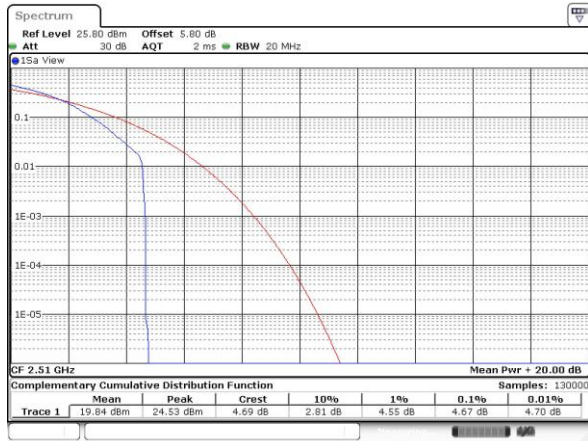
Highest Channel / Full RB



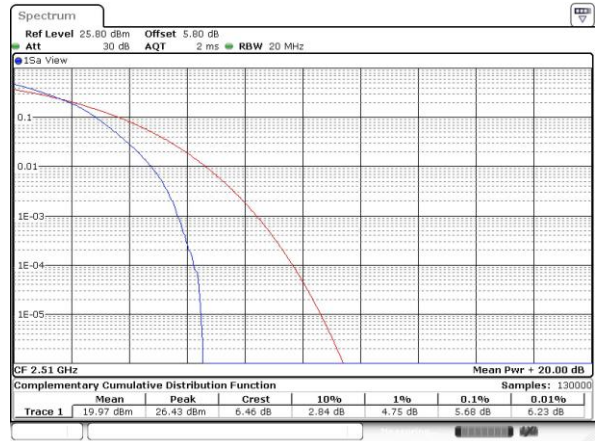


LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



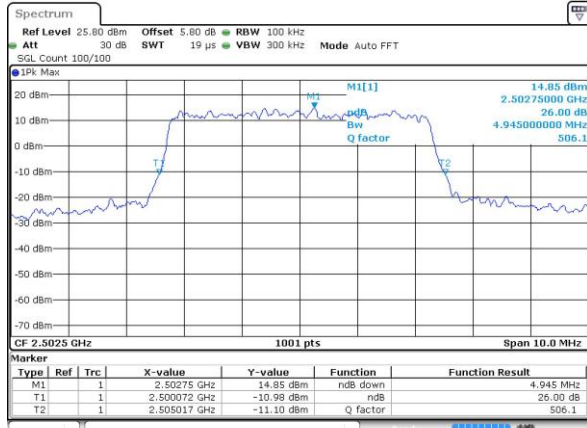
**26dB Bandwidth**

Mode	LTE Band 7 : 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	-	-	-	-	4.945	5.005	9.890	9.730	14.535	14.625	20.180	20.260
Middle CH	-	-	-	-	4.875	4.945	10.090	9.870	14.386	14.326	20.180	20.260
Highest CH	-	-	-	-	4.855	4.895	9.970	9.830	14.296	14.356	20.140	20.060



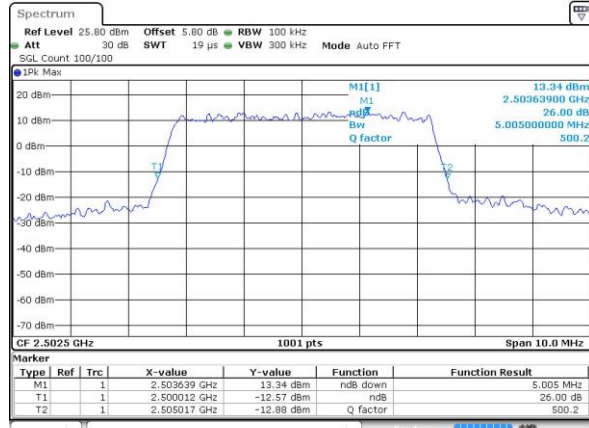
LTE Band 7

Lowest Channel / 5MHz / QPSK



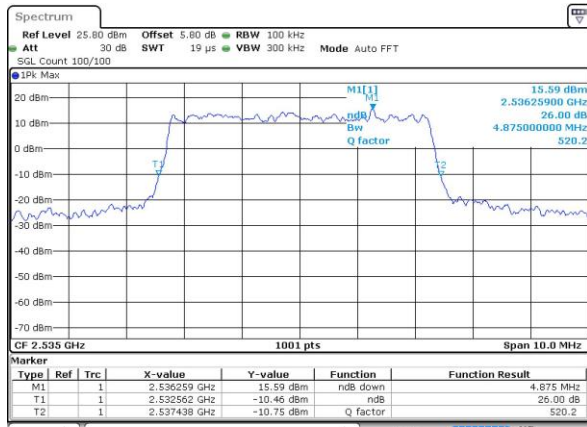
Date: 6 JUN 2016 09:21:46

Lowest Channel / 5MHz / 16QAM



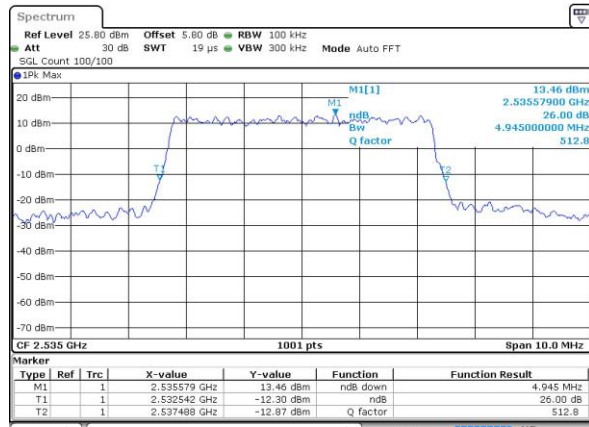
Date: 6 JUN 2016 09:22:07

Middle Channel / 5MHz / QPSK



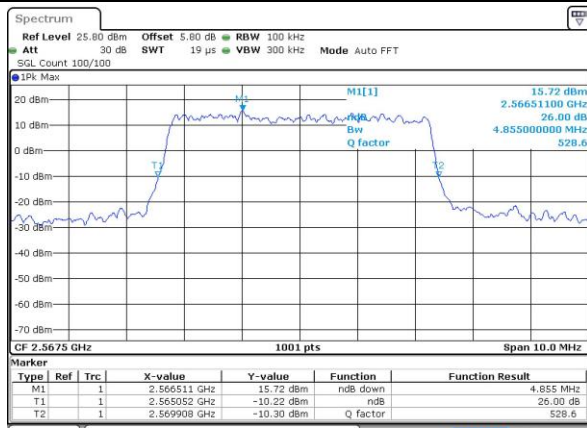
Date: 6 JUN 2016 09:22:49

Middle Channel / 5MHz / 16QAM



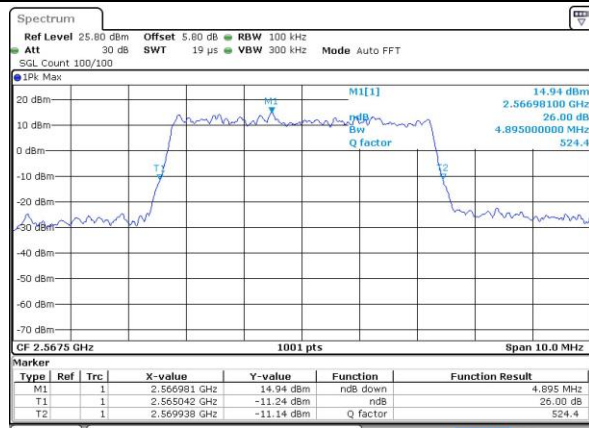
Date: 6 JUN 2016 09:22:28

Highest Channel / 5MHz / QPSK



Date: 6 JUN 2016 09:23:10

Highest Channel / 5MHz / 16QAM

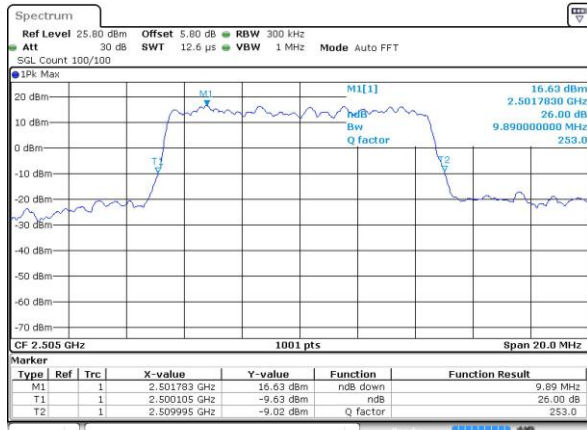


Date: 6 JUN 2016 09:23:31

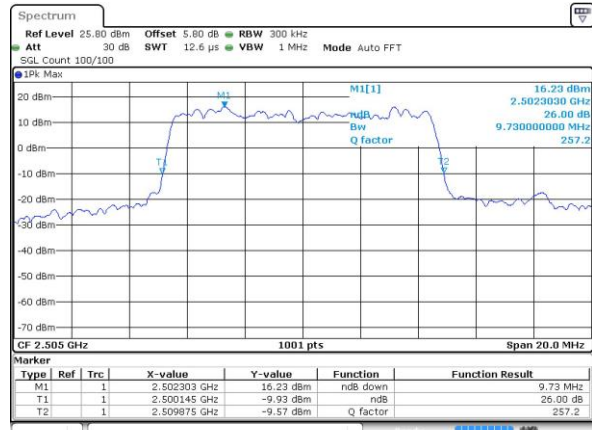


LTE Band 7

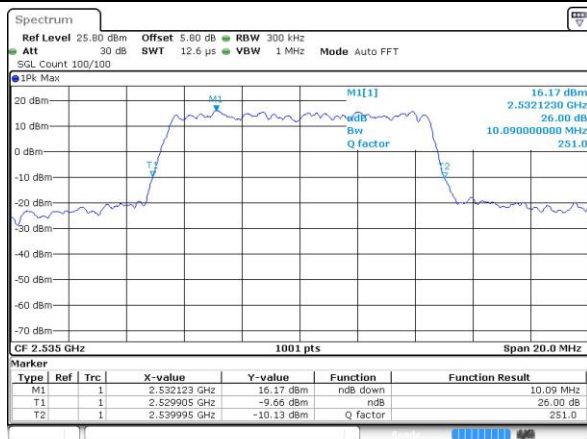
Lowest Channel / 10MHz / QPSK



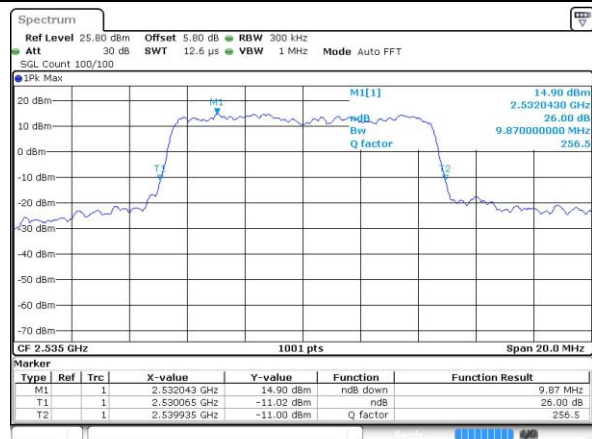
Lowest Channel / 10MHz / 16QAM



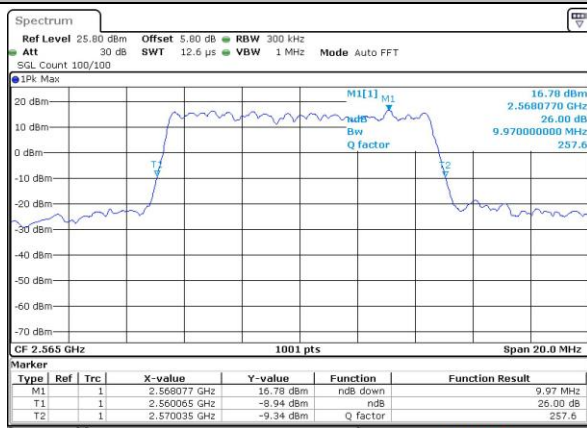
Middle Channel / 10MHz / QPSK



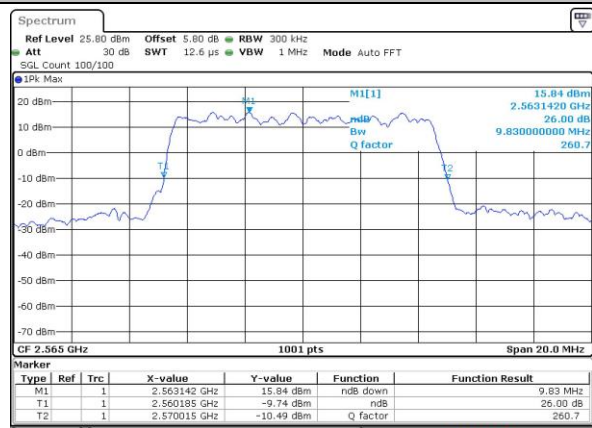
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



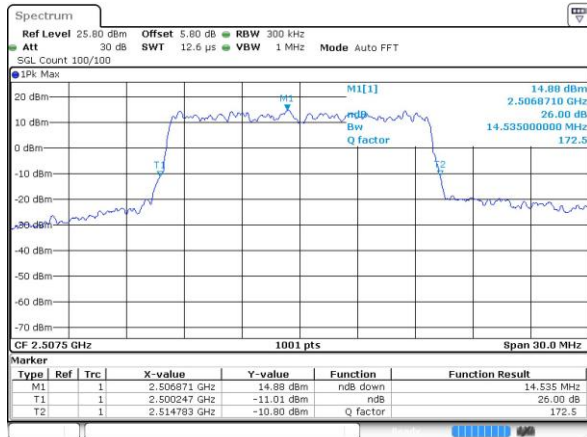
Highest Channel / 10MHz / 16QAM





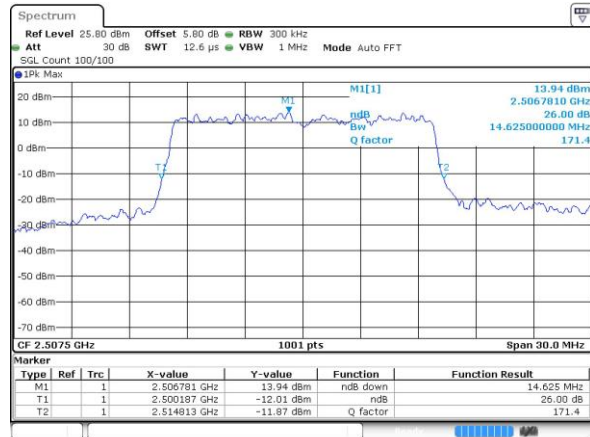
LTE Band 7

Lowest Channel / 15MHz / QPSK



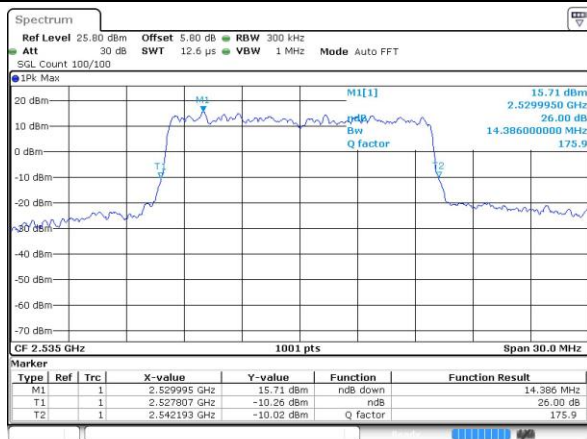
Date: 6 JUN 2016 09:55:29

Lowest Channel / 15MHz / 16QAM



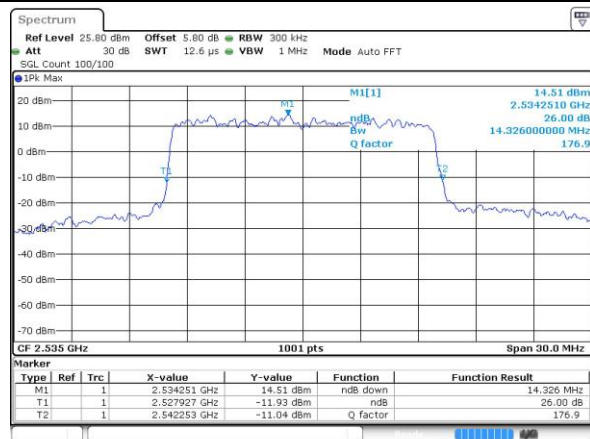
Date: 6 JUN 2016 10:35:12

Middle Channel / 15MHz / QPSK



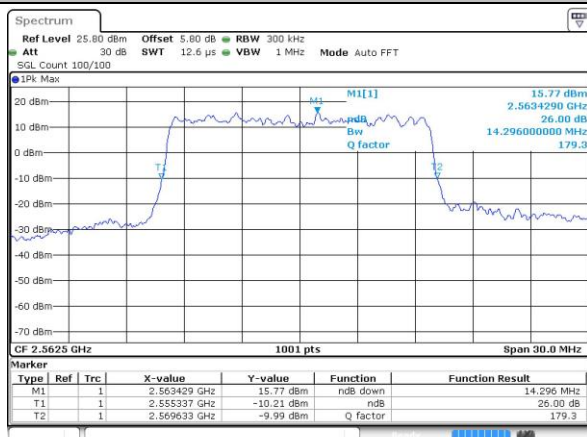
Date: 6 JUN 2016 09:55:50

Middle Channel / 15MHz / 16QAM



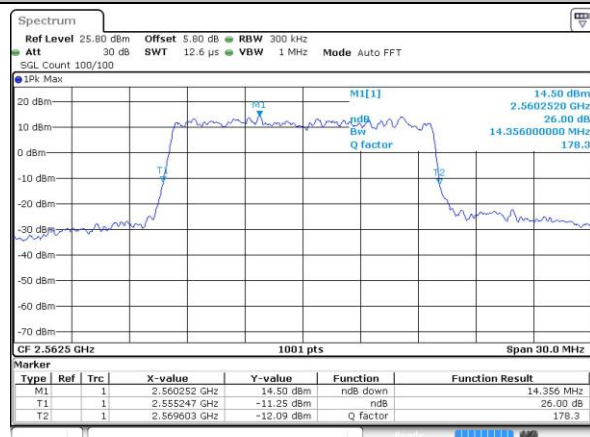
Date: 6 JUN 2016 09:56:11

Highest Channel / 15MHz / QPSK



Date: 6 JUN 2016 09:56:53

Highest Channel / 15MHz / 16QAM

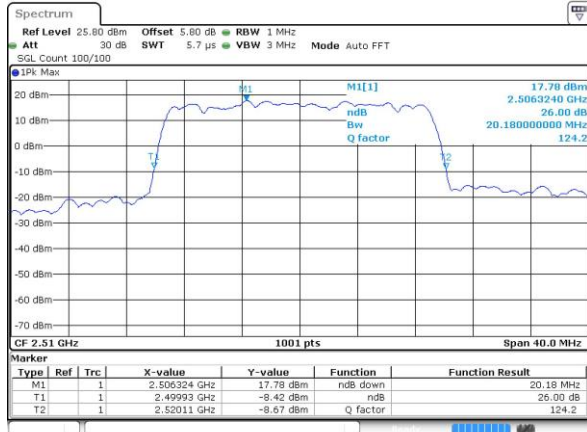


Date: 6 JUN 2016 09:56:32

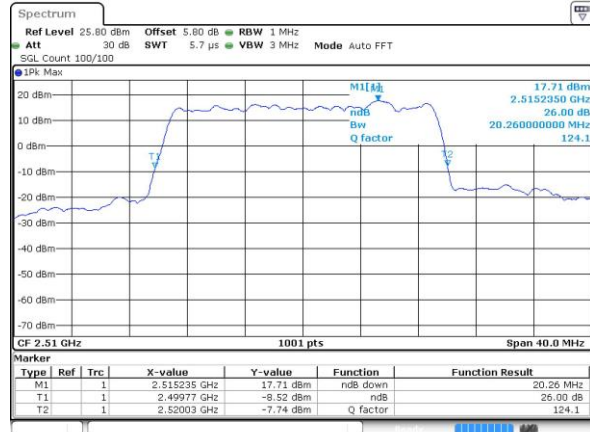


LTE Band 7

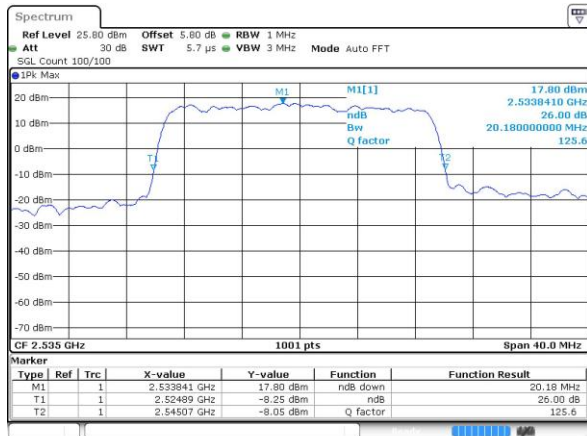
Lowest Channel / 20MHz / QPSK



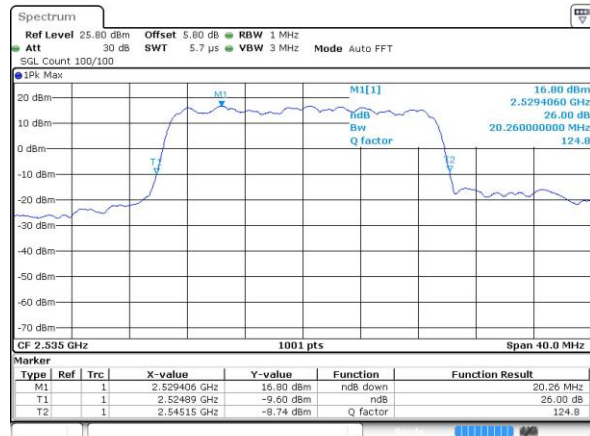
Lowest Channel / 20MHz / 16QAM



Middle Channel / 20MHz / QPSK



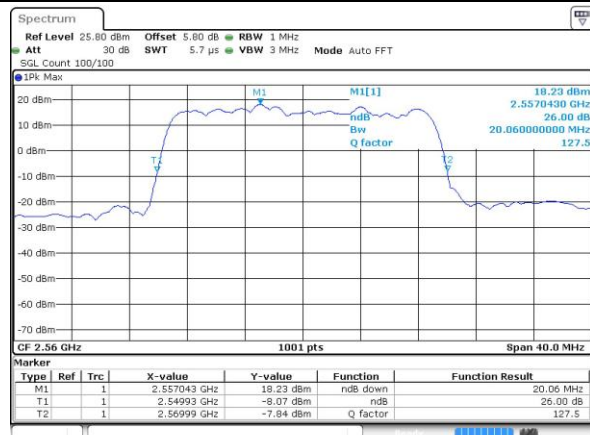
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



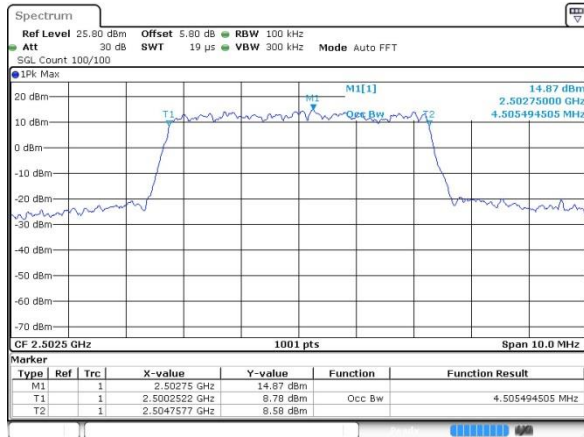
**Occupied Bandwidth**

Mode	LTE Band 7 : 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	-	-	-	-	4.51	4.50	9.07	9.05	13.40	13.46	18.30	18.42
Middle CH	-	-	-	-	4.51	4.51	9.07	9.07	13.46	13.52	18.38	18.22
Highest CH	-	-	-	-	4.50	4.53	9.05	9.03	13.43	13.46	18.26	18.46

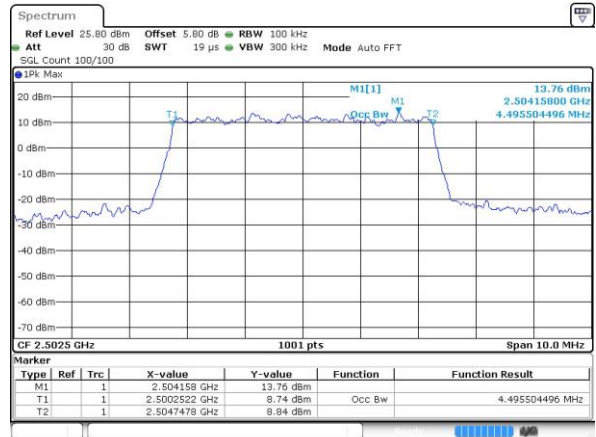


LTE Band 7

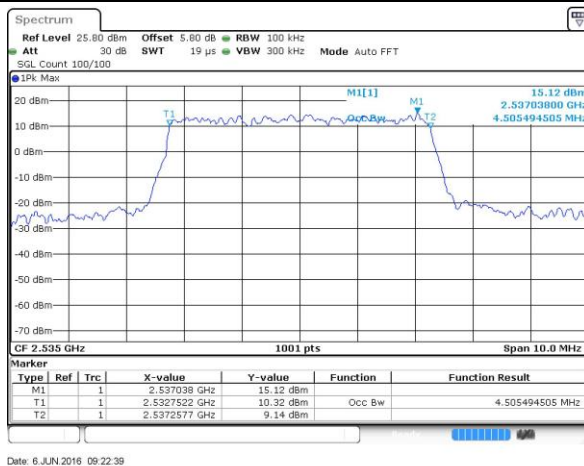
Lowest Channel / 5MHz / QPSK



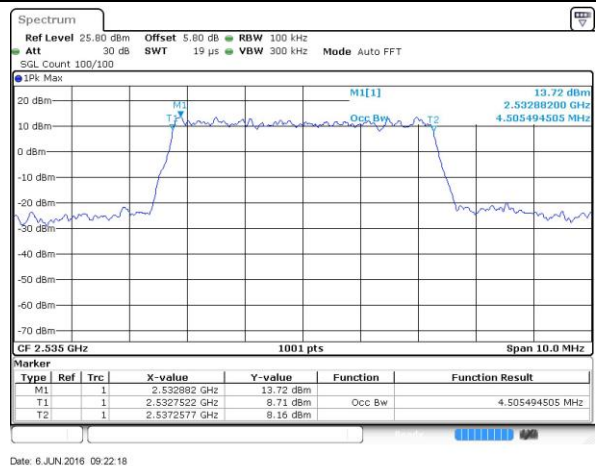
Lowest Channel / 5MHz / 16QAM



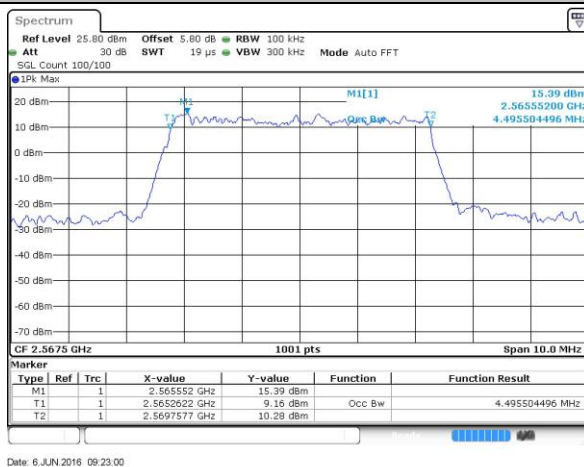
Middle Channel / 5MHz / QPSK



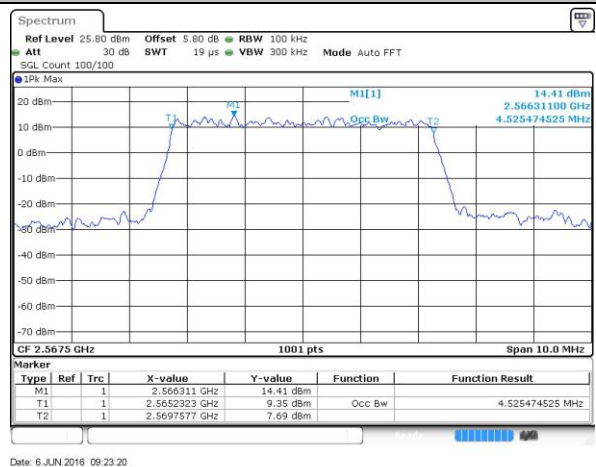
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



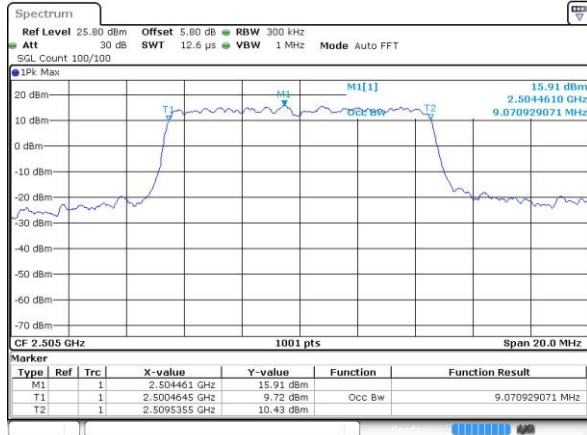
Highest Channel / 5MHz / 16QAM





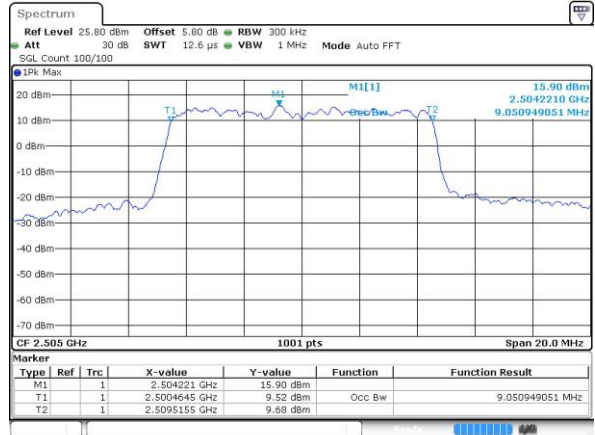
LTE Band 7

Lowest Channel / 10MHz / QPSK



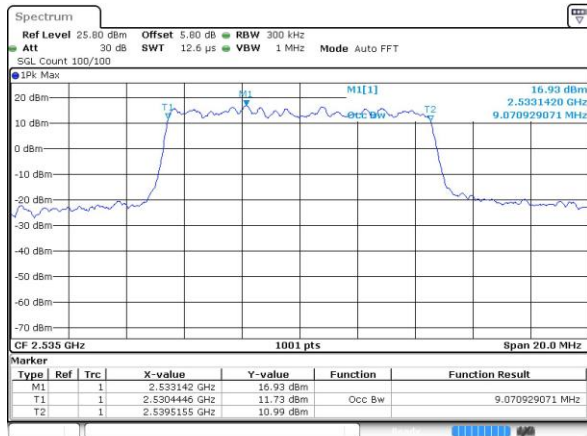
Date: 6 JUN 2016 09:38:17

Lowest Channel / 10MHz / 16QAM



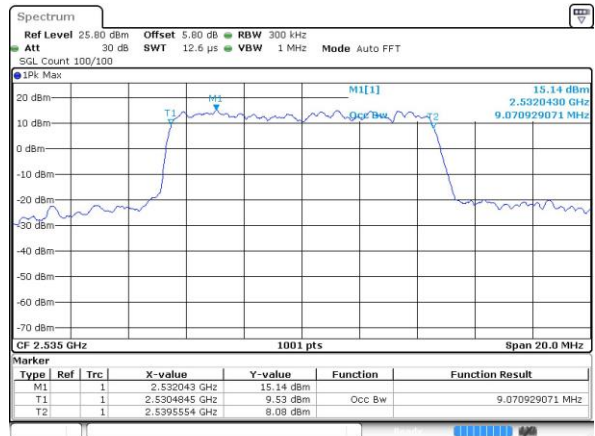
Date: 6 JUN 2016 09:38:38

Middle Channel / 10MHz / QPSK



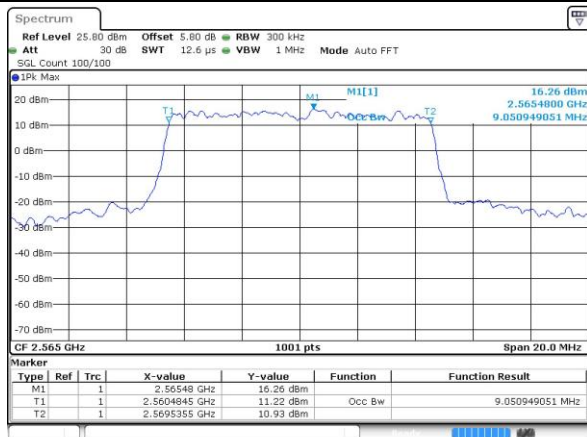
Date: 6 JUN 2016 09:39:20

Middle Channel / 10MHz / 16QAM



Date: 6 JUN 2016 09:38:59

Highest Channel / 10MHz / QPSK



Date: 6 JUN 2016 09:39:41

Highest Channel / 10MHz / 16QAM

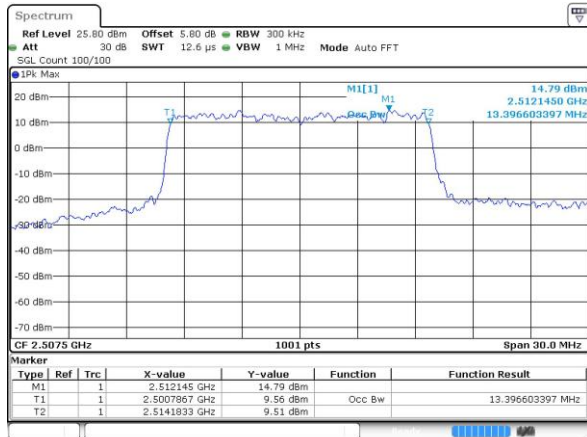


Date: 6 JUN 2016 09:40:02

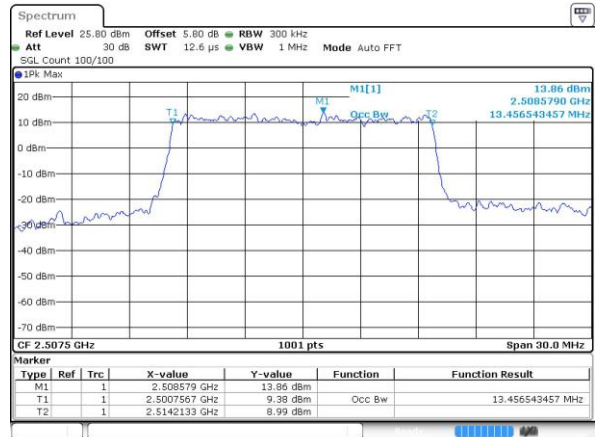


LTE Band 7

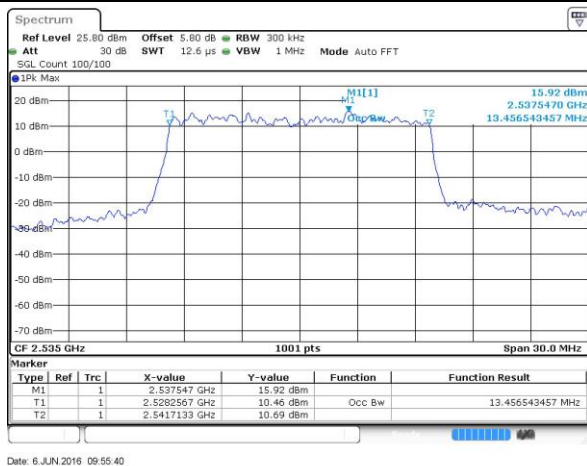
Lowest Channel / 15MHz / QPSK



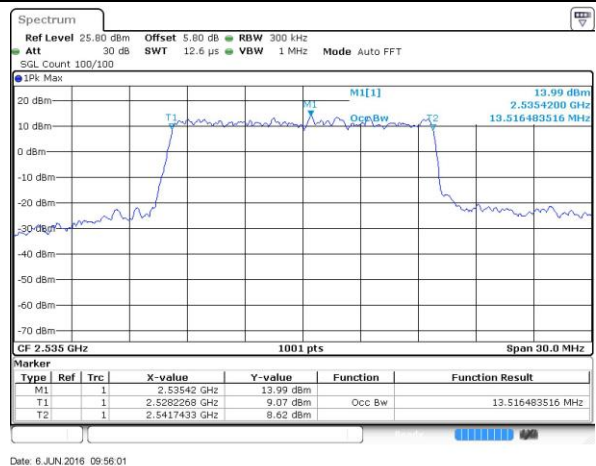
Lowest Channel / 15MHz / 16QAM



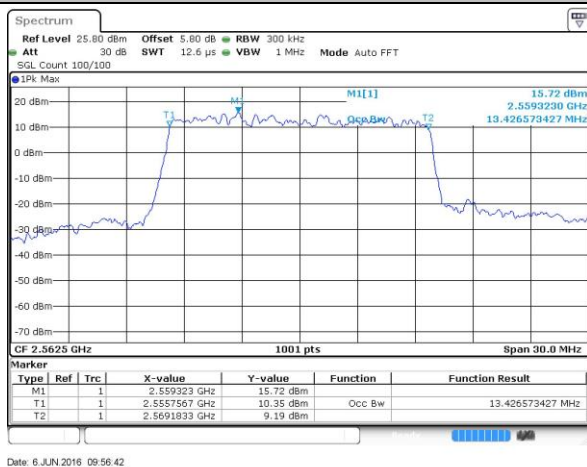
Middle Channel / 15MHz / QPSK



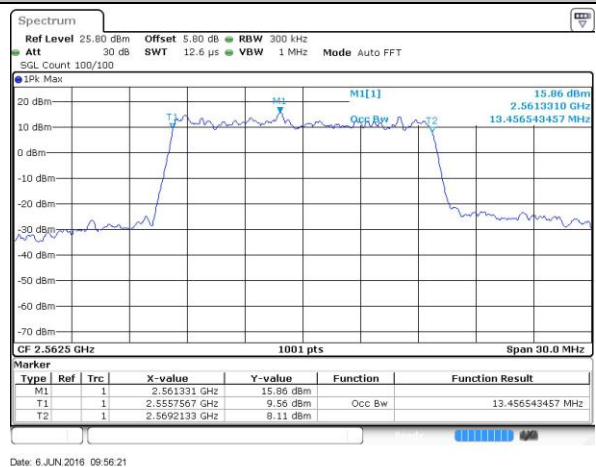
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



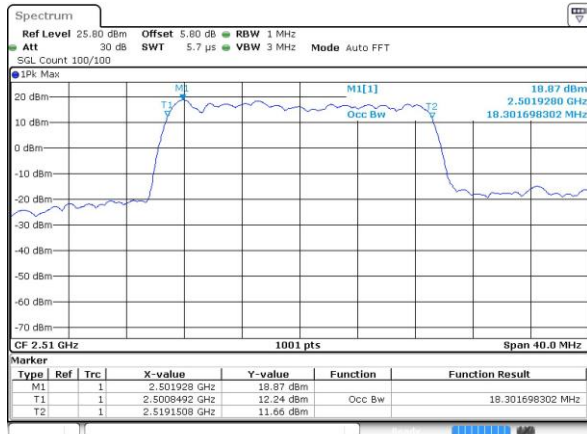
Highest Channel / 15MHz / 16QAM



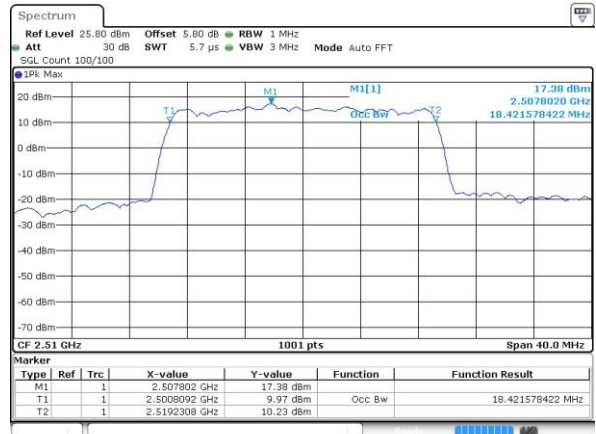


LTE Band 7

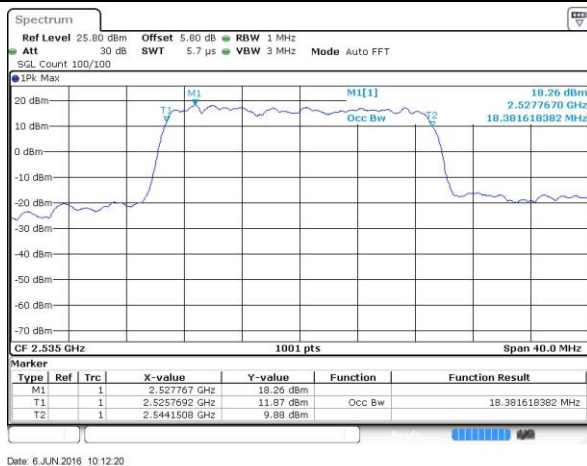
Lowest Channel / 20MHz / QPSK



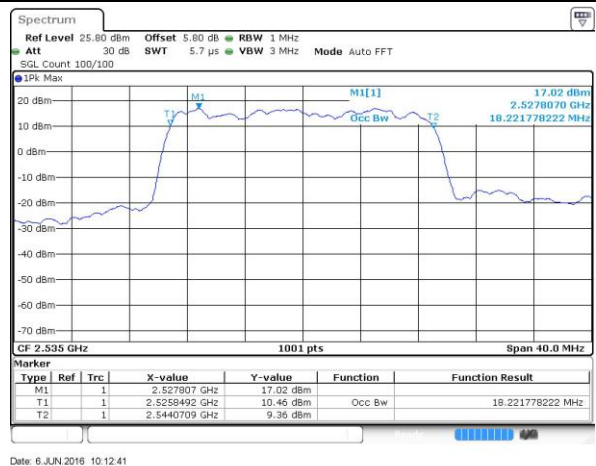
Lowest Channel / 20MHz / 16QAM



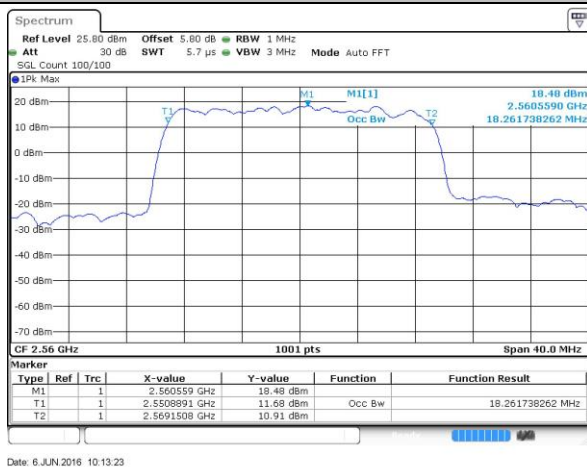
Middle Channel / 20MHz / QPSK



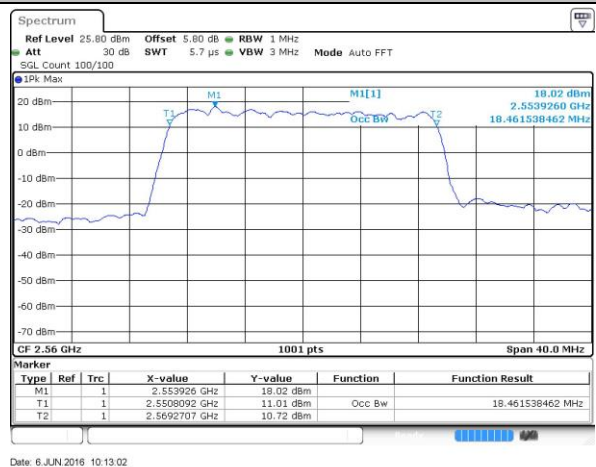
Middle Channel / 20MHz / 16QAM

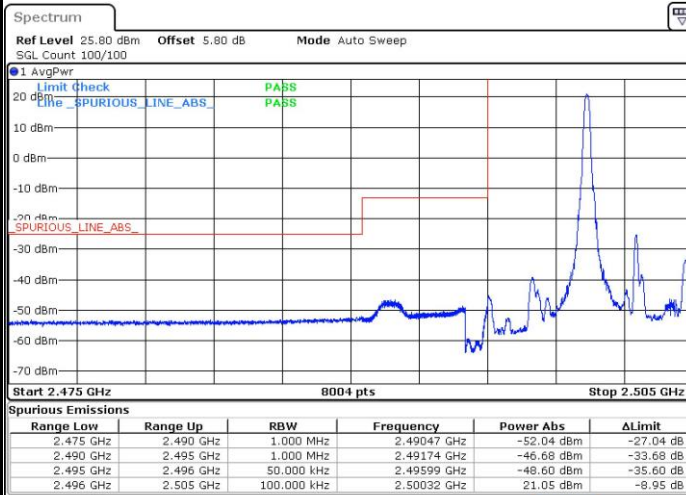


Highest Channel / 20MHz / QPSK

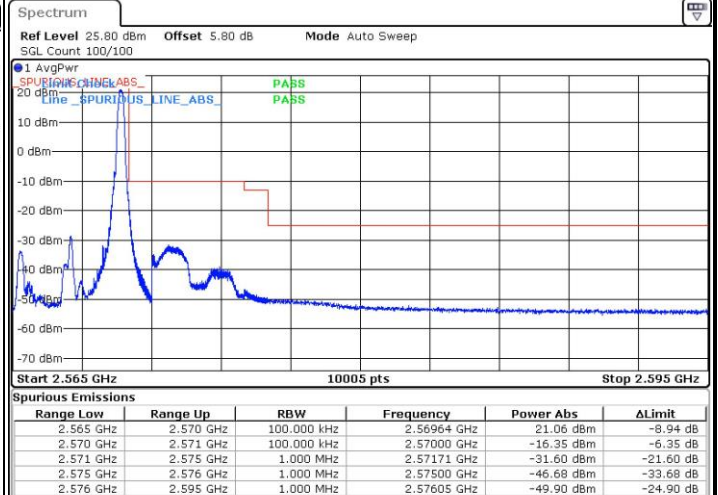


Highest Channel / 20MHz / 16QAM

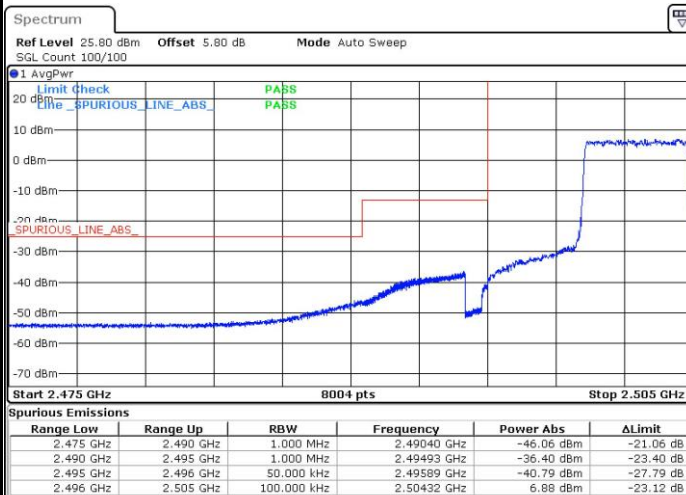


**Conducted Band Edge****LTE Band 7 / 5MHz / QPSK****Lowest Band Edge / 1 RB**

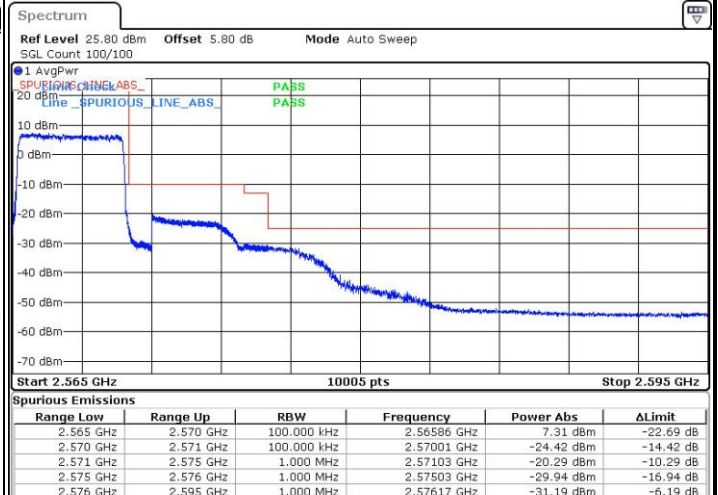
Date: 6 JUN.2016 09:24:40

Highest Band Edge / 1 RB

Date: 6 JUN.2016 09:32:39

Lowest Band Edge / Full RB

Date: 6 JUN.2016 09:28:05

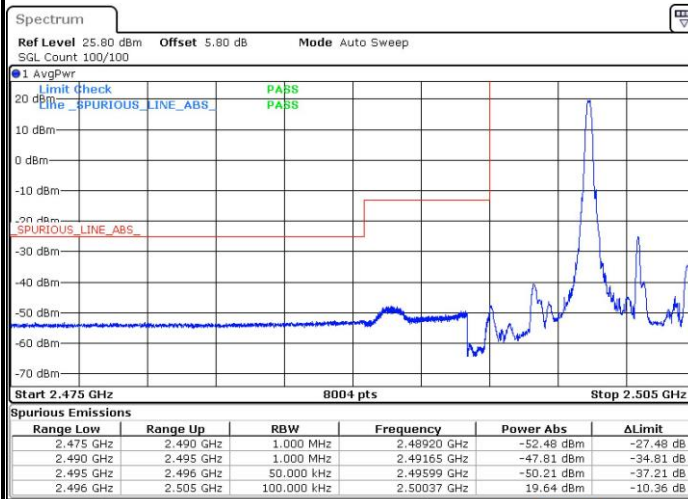
Highest Band Edge / Full RB

Date: 6 JUN.2016 09:29:14

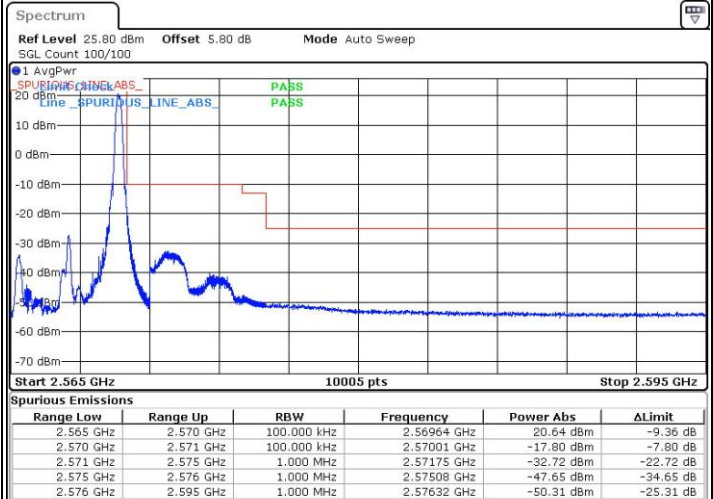


LTE Band 7 / 5MHz / 16QAM

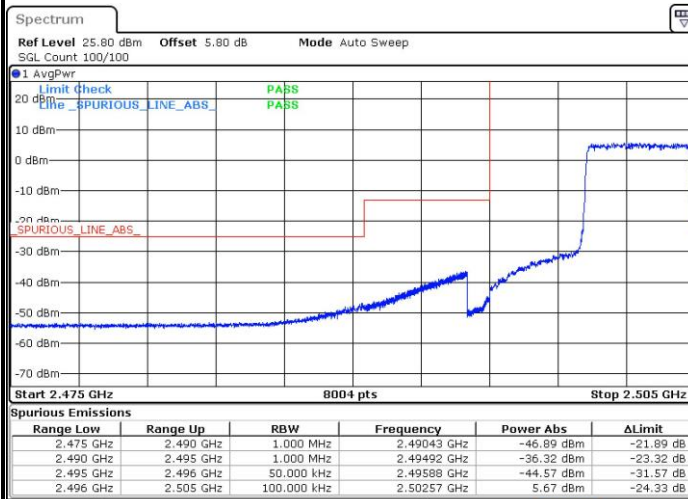
Lowest Band Edge / 1 RB



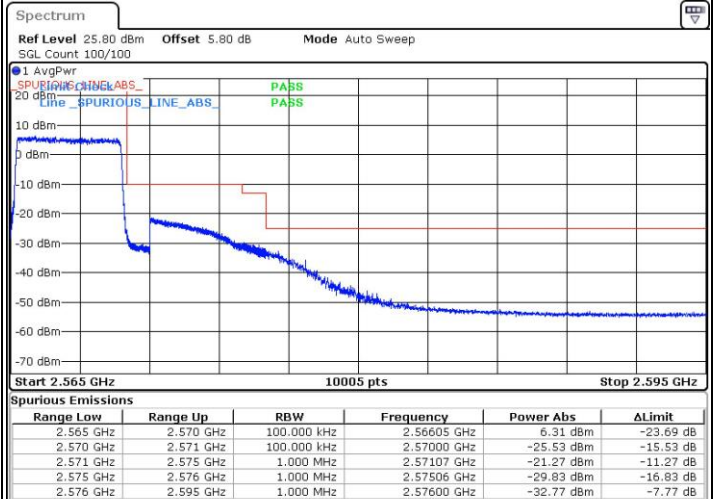
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



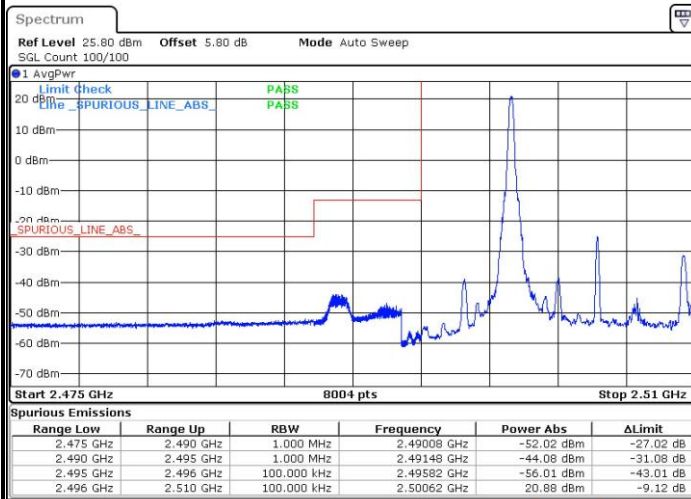
Highest Band Edge / Full RB





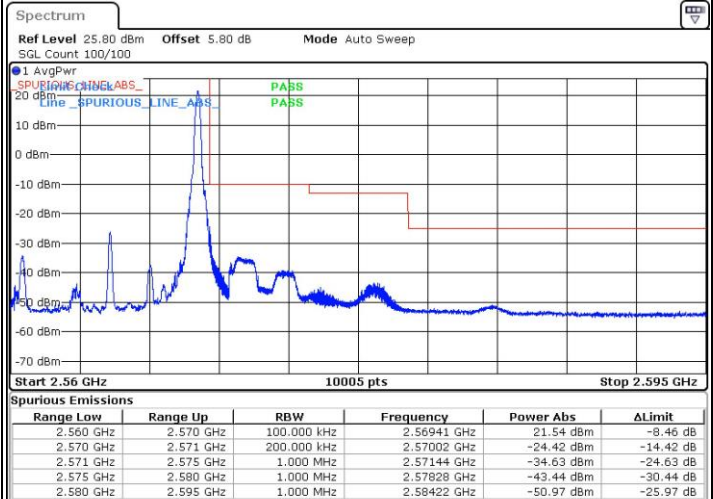
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



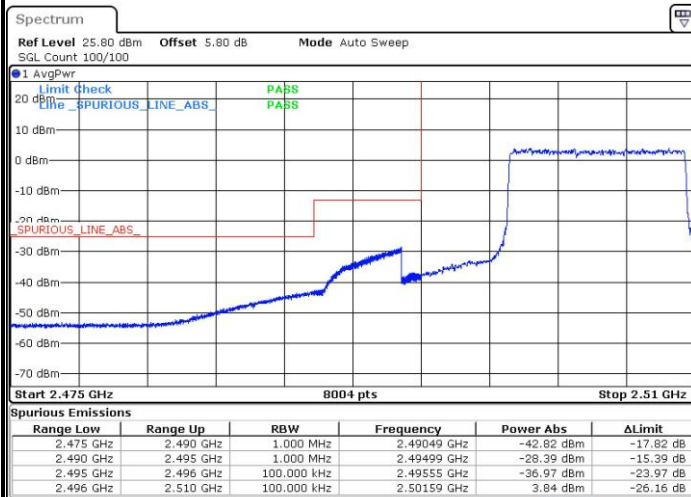
Date: 6 JUN 2016 09:41:21

Highest Band Edge / 1 RB



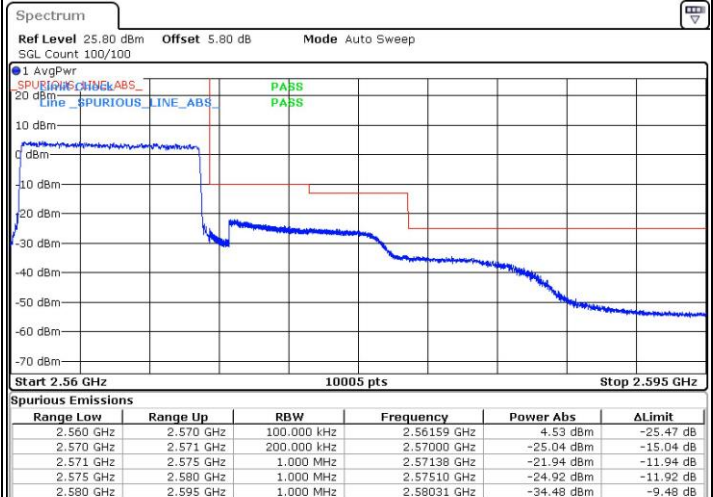
Date: 6 JUN 2016 09:49:20

Lowest Band Edge / Full RB



Date: 6 JUN 2016 09:44:46

Highest Band Edge / Full RB

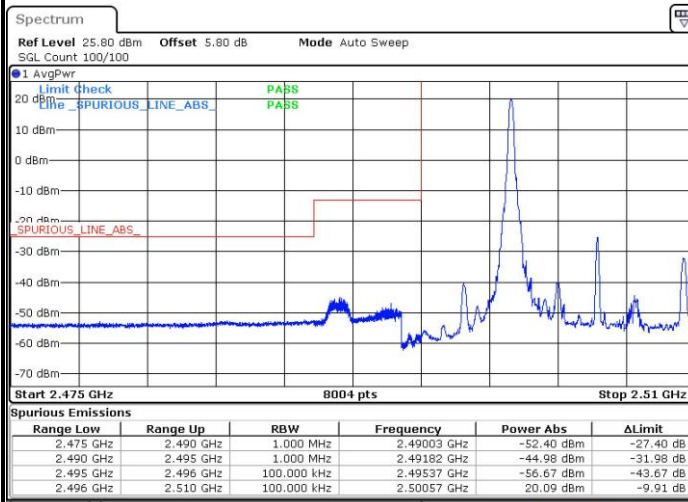


Date: 6 JUN 2016 09:45:54

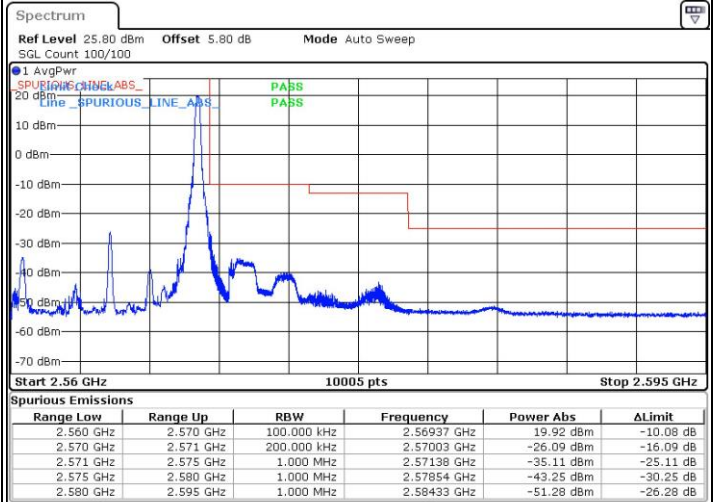


LTE Band 7 / 10MHz / 16QAM

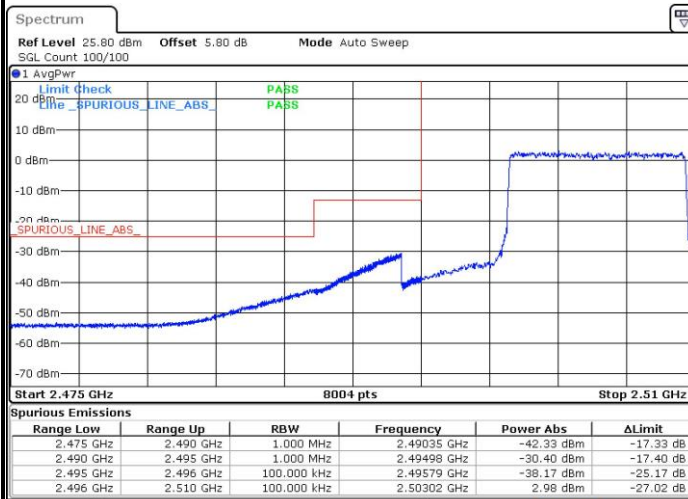
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

