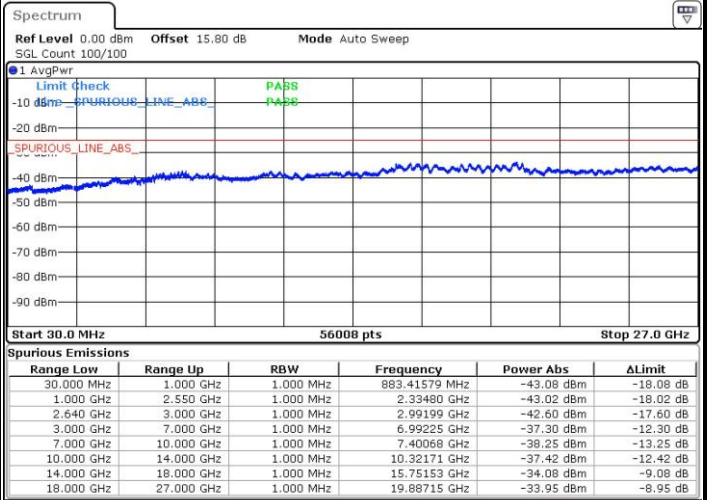




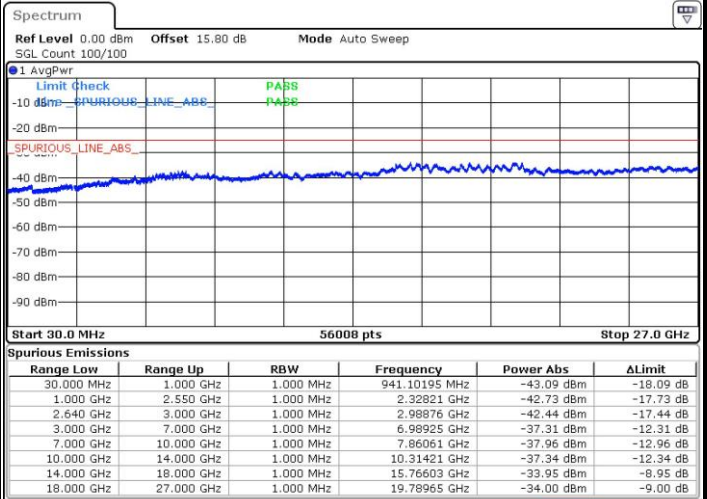
LTE Band 38 / 5MHz

Lowest Channel / 64QAM



Date: 13.MAY.2017 21:46:05

Middle Channel / 64QAM

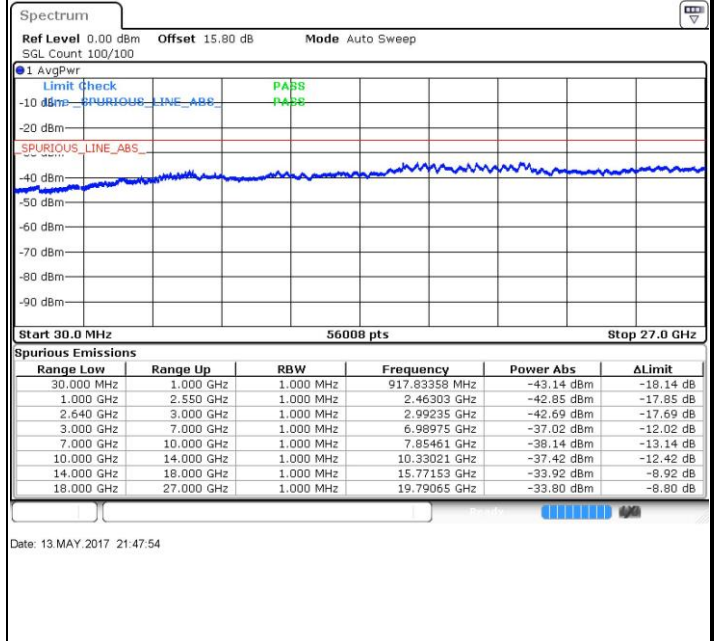


Date: 13.MAY.2017 21:46:59



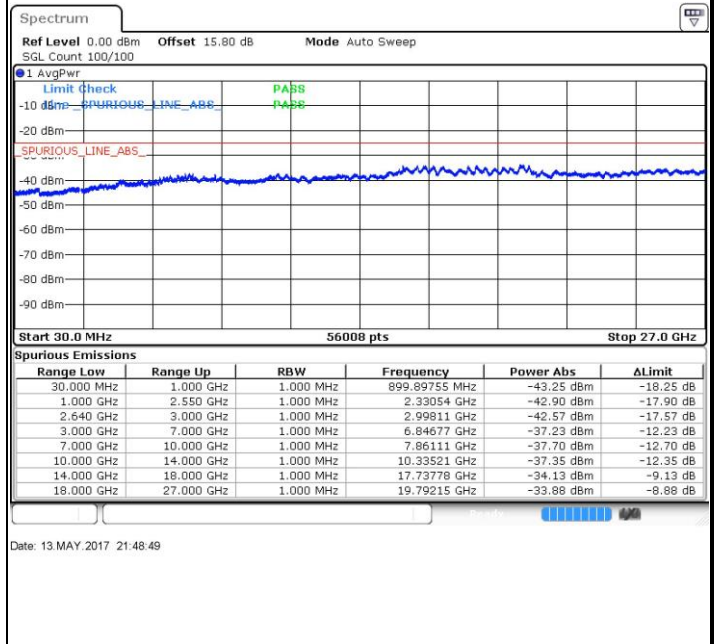
LTE Band 38 / 5MHz

Highest Channel / 64QAM



LTE Band 38 / 10MHz

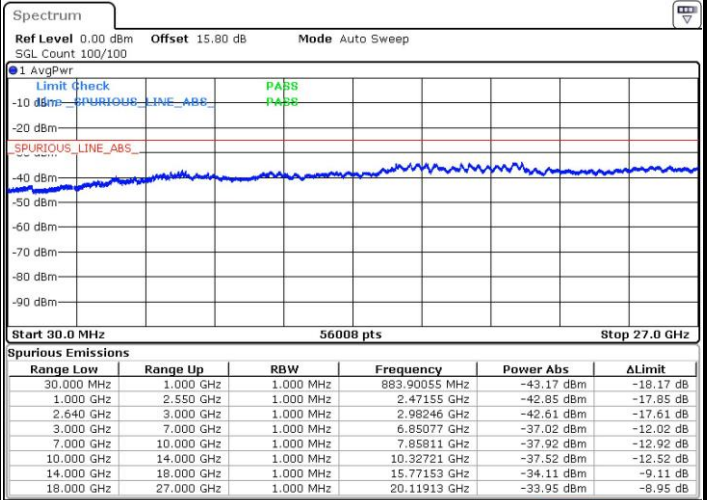
Lowest Channel / 64QAM





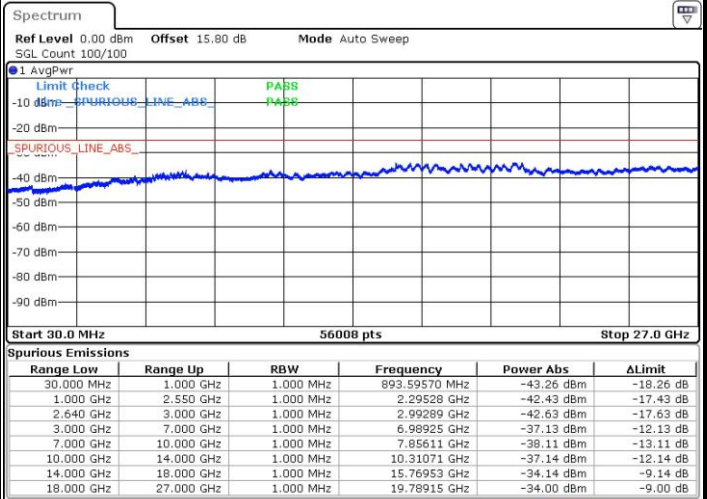
LTE Band 38 / 10MHz

Middle Channel / 64QAM



Date: 13.MAY.2017 21:49:44

Highest Channel / 64QAM

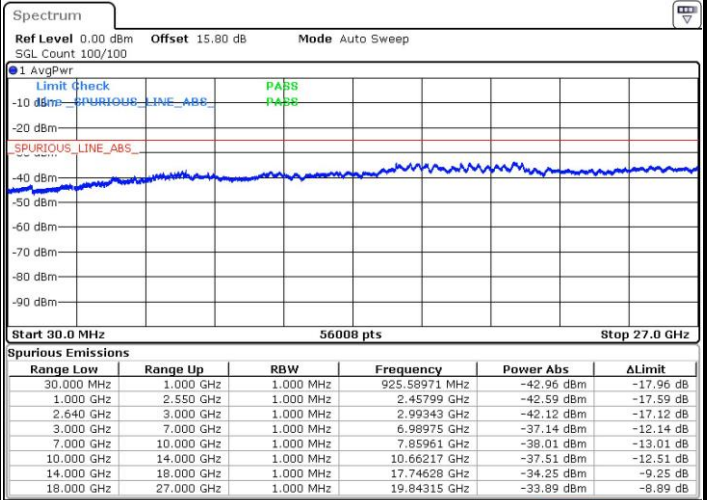


Date: 13.MAY.2017 21:50:38



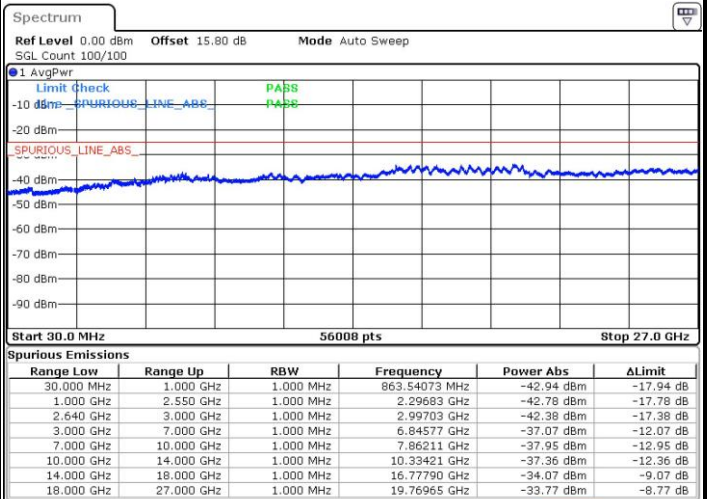
LTE Band 38 / 15MHz

Lowest Channel / 64QAM



Date: 13.MAY.2017 21:51:33

Middle Channel / 64QAM

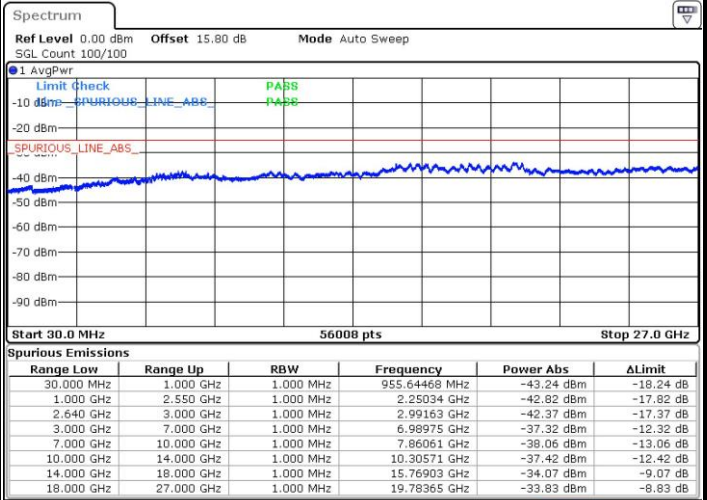


Date: 13.MAY.2017 21:52:28



**LTE Band 38 / 15MHz**

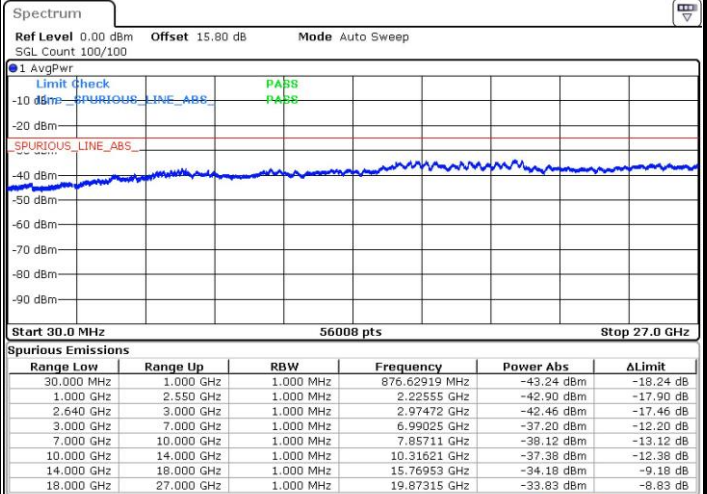
**Highest Channel / 64QAM**



Date: 13.MAY.2017 21:53:23

**LTE Band 38 / 20MHz**

**Lowest Channel / 64QAM**

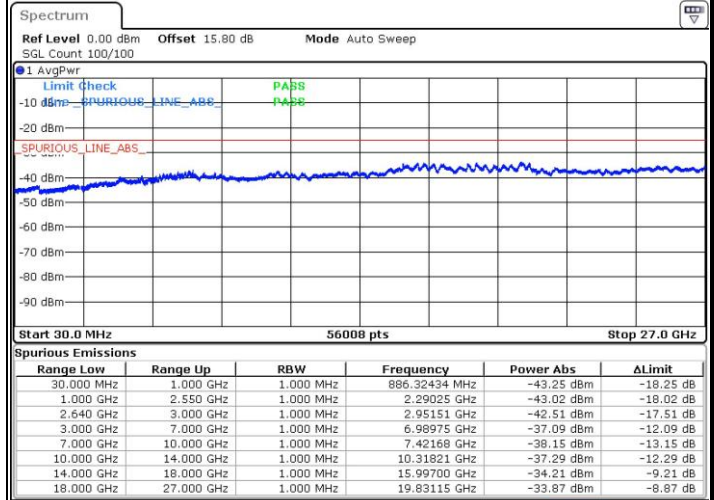


Date: 13.MAY.2017 21:54:17



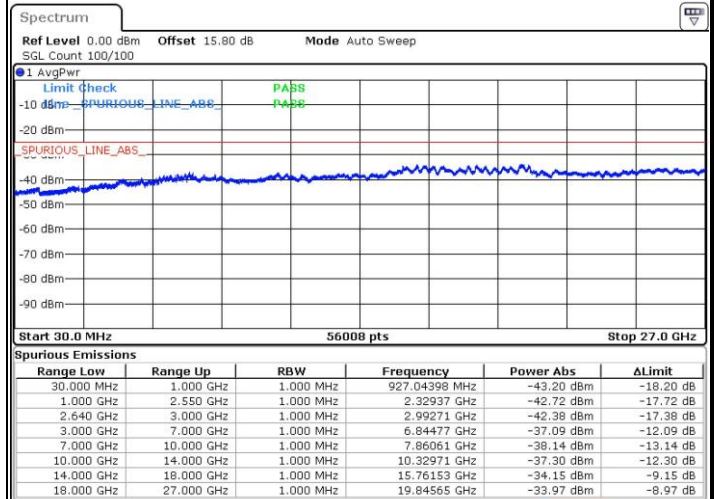
LTE Band 38 / 20MHz

Middle Channel / 64QAM



Date: 13.MAY.2017 21:55:12

Highest Channel / 64QAM



Date: 13.MAY.2017 21:56:07



**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	0.0099	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0099	
-10	Normal Voltage	0.0093	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0096	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0092	

**Note:**

1. Normal Voltage =3.8 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 38\_CA

## 26dB Bandwidth

Mode	LTE Band 38 : 26dB BW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	30.51	39.8	30.63	39.8
Middle CH	30.81	39.96	30.75	39.88
Highest CH	30.45	39.8	30.57	39.88

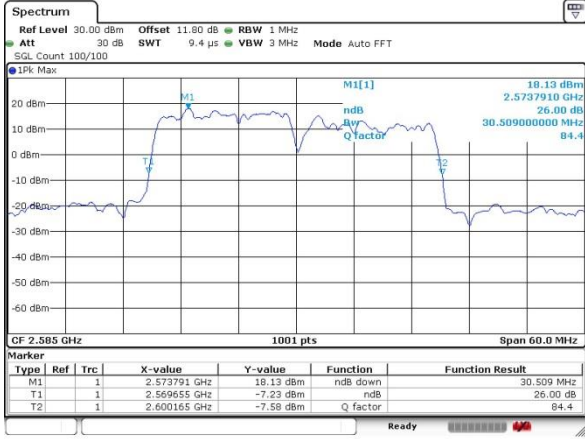
Mode	LTE Band 38 : 26dB BW(MHz)			
Mod.	64QAM		-	
BW	15MHz+15MHz	20MHz+20MHz	-	-
Lowest CH	30.39	39.8	-	-
Middle CH	30.69	39.8	-	-
Highest CH	30.51	39.8	-	-



LTE Band 38

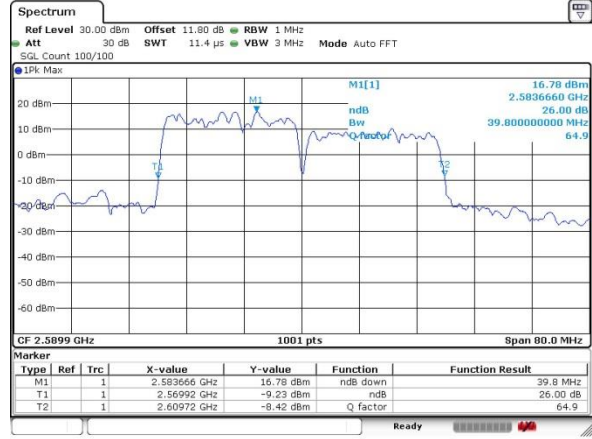
QPSK

Lowest Channel / 15MHz+15MHz



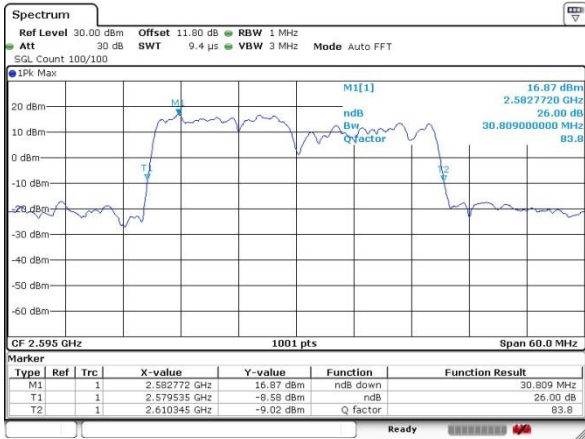
Date: 25 MAY 2017 15:13:32

Lowest Channel / 20MHz+20MHz



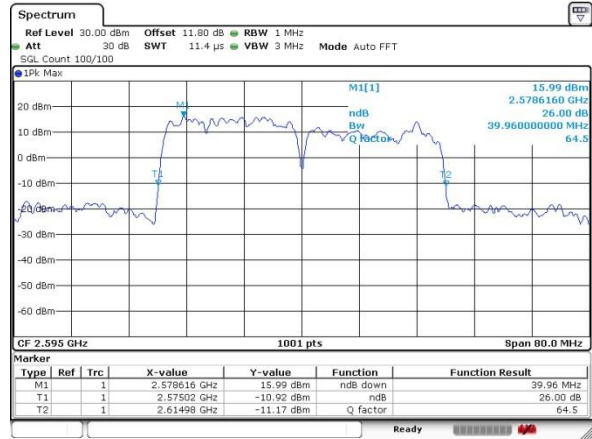
Date: 25 MAY 2017 16:20:20

Middle Channel / 15MHz+15MHz



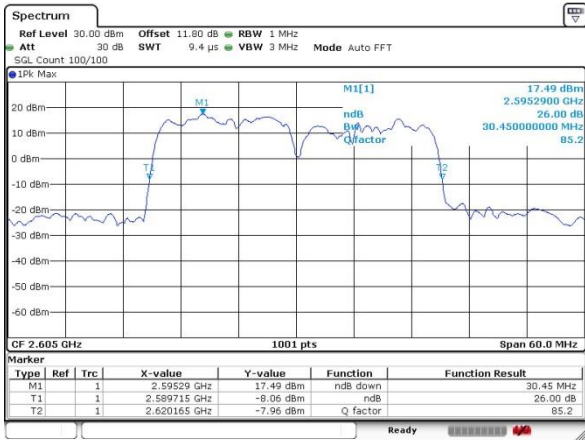
Date: 25 MAY 2017 15:34:52

Middle Channel / 20MHz+20MHz



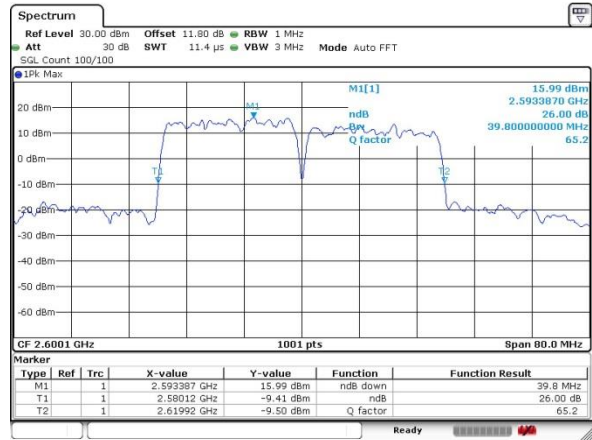
Date: 25 MAY 2017 16:06:16

Highest Channel / 15MHz+15MHz



Date: 25 MAY 2017 15:40:44

Highest Channel / 20MHz+20MHz



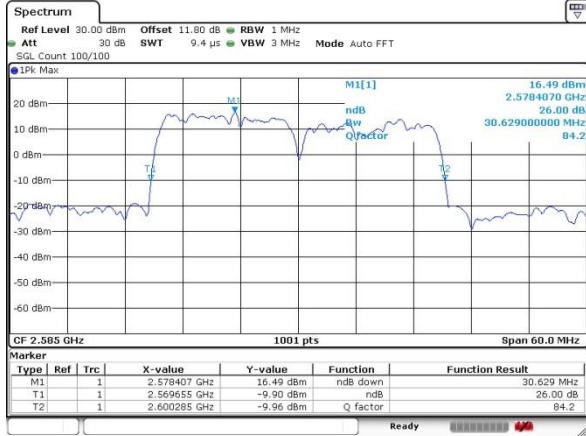
Date: 25 MAY 2017 16:08:17



LTE Band 38

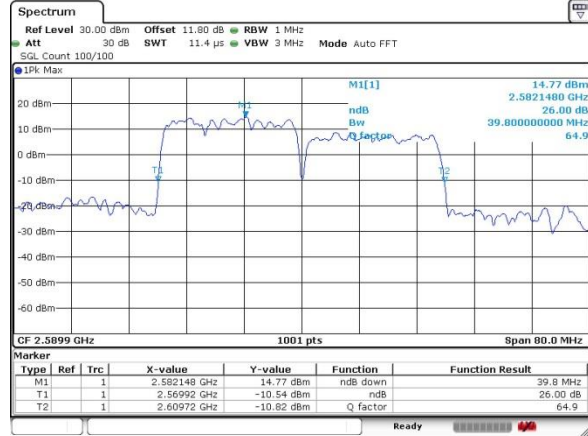
16QAM

Lowest Channel / 15MHz+15MHz



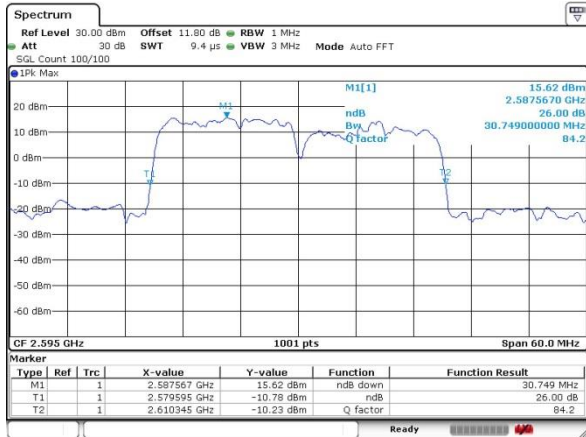
Date: 25 MAY 2017 15:13:20

Lowest Channel / 20MHz+20MHz



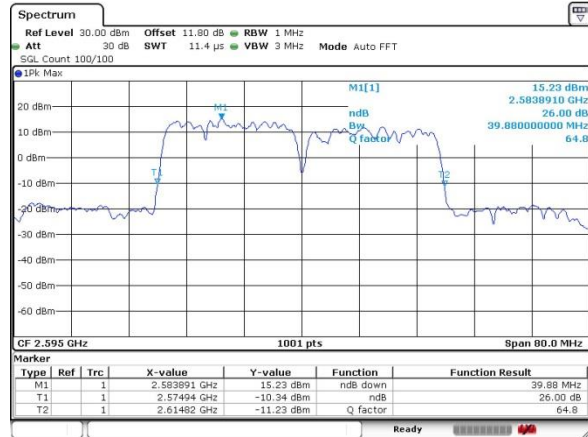
Date: 25 MAY 2017 16:19:01

Middle Channel / 15MHz+15MHz



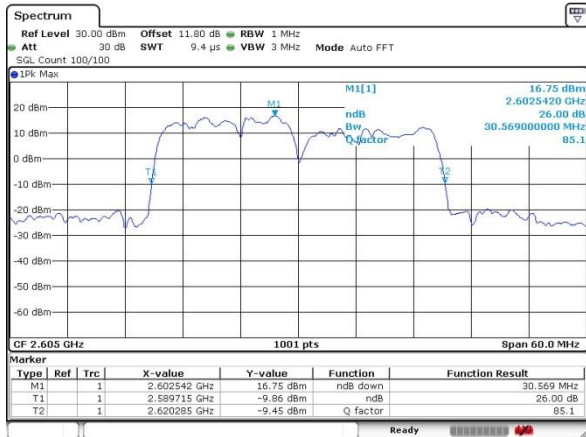
Date: 25 MAY 2017 15:33:55

Middle Channel / 20MHz+20MHz



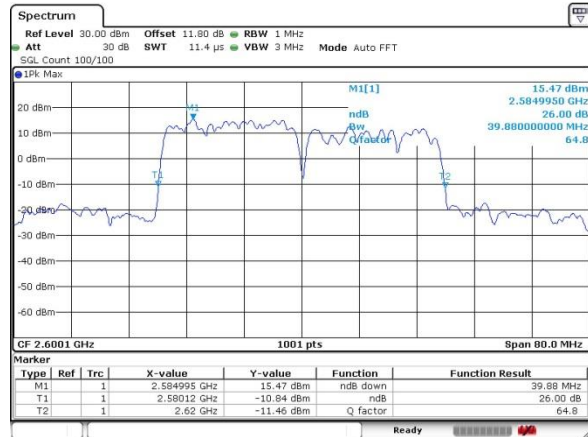
Date: 25 MAY 2017 16:06:00

Highest Channel / 15MHz+15MHz



Date: 25 MAY 2017 15:40:58

Highest Channel / 20MHz+20MHz



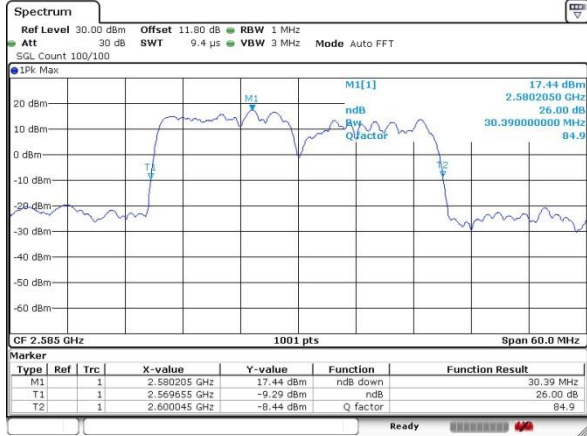
Date: 25 MAY 2017 16:22:13



LTE Band 38

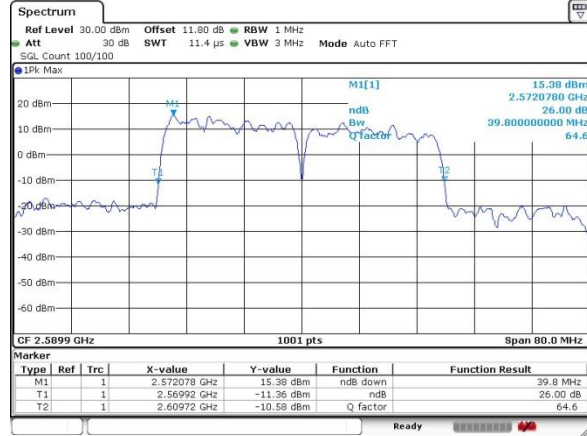
64QAM

Lowest Channel / 15MHz+15MHz



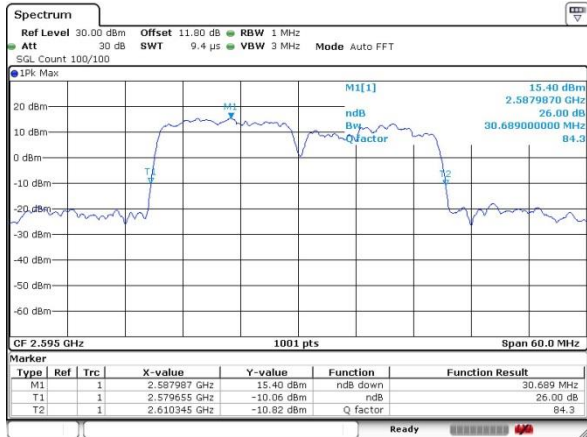
Date: 25 MAY 2017 15:13:00

Lowest Channel / 20MHz+20MHz



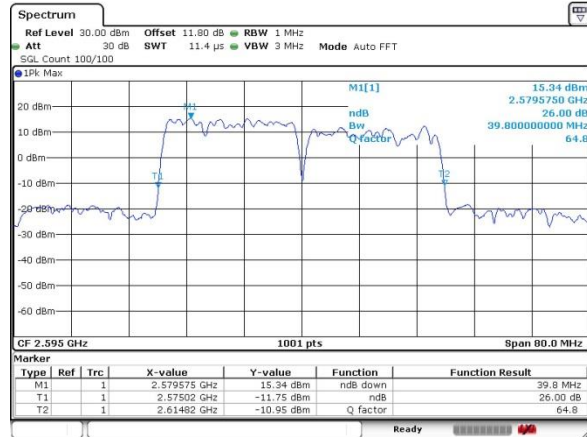
Date: 25 MAY 2017 16:18:26

Middle Channel / 15MHz+15MHz



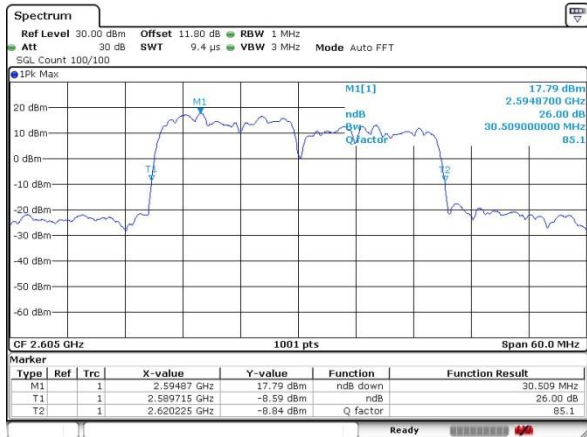
Date: 25 MAY 2017 15:34:37

Middle Channel / 20MHz+20MHz



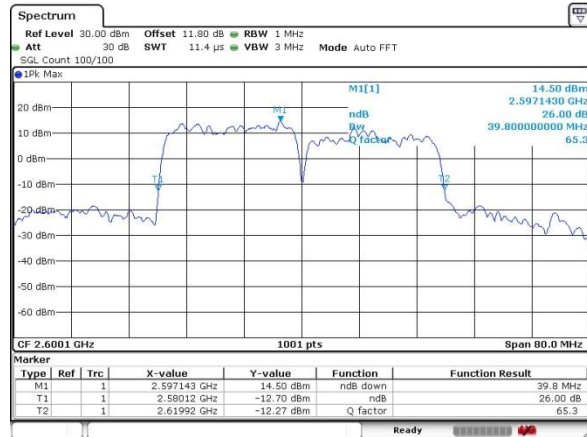
Date: 25 MAY 2017 16:05:45

Highest Channel / 15MHz+15MHz



Date: 25 MAY 2017 15:41:11

Highest Channel / 20MHz+20MHz



Date: 25 MAY 2017 16:09:13



**Occupied Bandwidth**

Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	QPSK		16QAM	
BW	15MHz+15MHz	20MHz+20MHz	15MHz+15MHz	20MHz+20MHz
Lowest CH	28.83	37.72	28.95	37.4
Middle CH	28.77	37.96	28.77	37.32
Highest CH	28.83	37.64	28.95	37.64

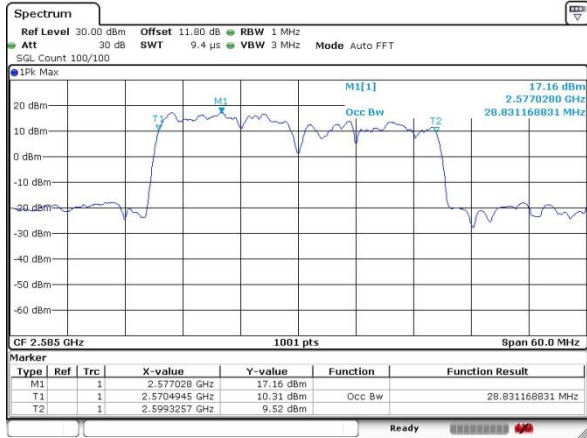
Mode	LTE Band 38 : 99%OBW(MHz)			
Mod.	64QAM		-	
BW	15MHz+15MHz	20MHz+20MHz	-	-
Lowest CH	28.65	37.48	-	-
Middle CH	28.53	37.4	-	-
Highest CH	28.59	37.56	-	--



LTE Band 38

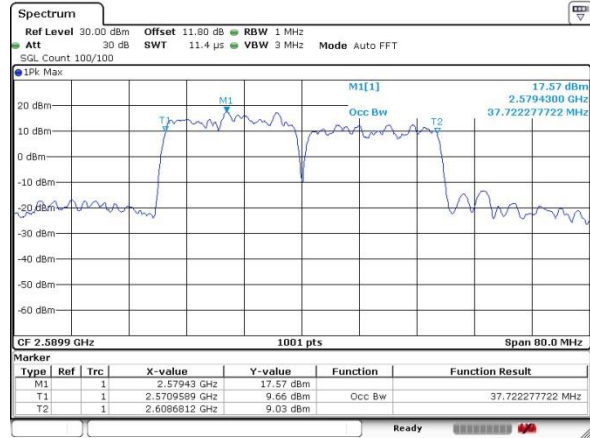
QPSK

Lowest Channel / 15MHz+15MHz



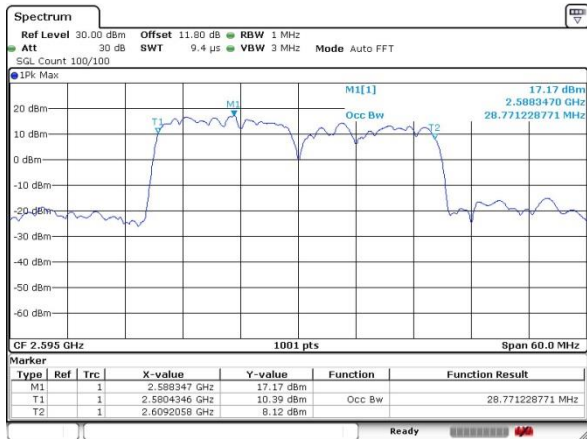
Date: 25 MAY 2017 15:03:02

Lowest Channel / 20MHz+20MHz



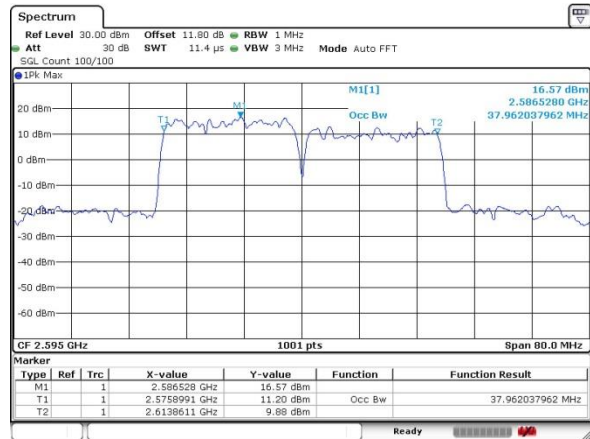
Date: 25 MAY 2017 15:56:05

Middle Channel / 15MHz+15MHz



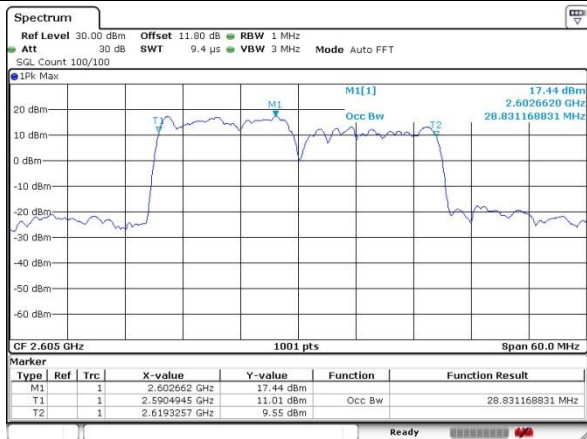
Date: 25 MAY 2017 15:36:52

Middle Channel / 20MHz+20MHz



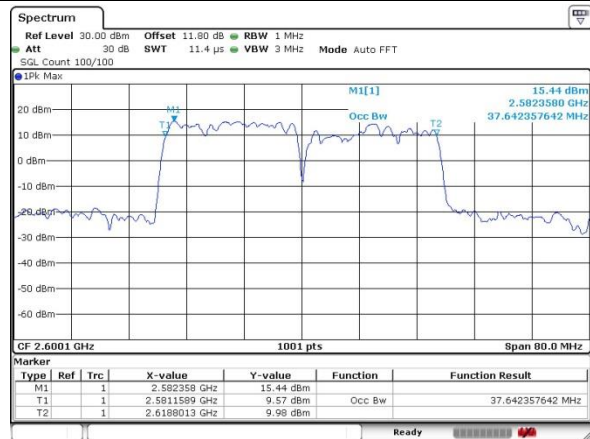
Date: 25 MAY 2017 16:04:42

Highest Channel / 15MHz+15MHz



Date: 25 MAY 2017 15:40:27

Highest Channel / 20MHz+20MHz



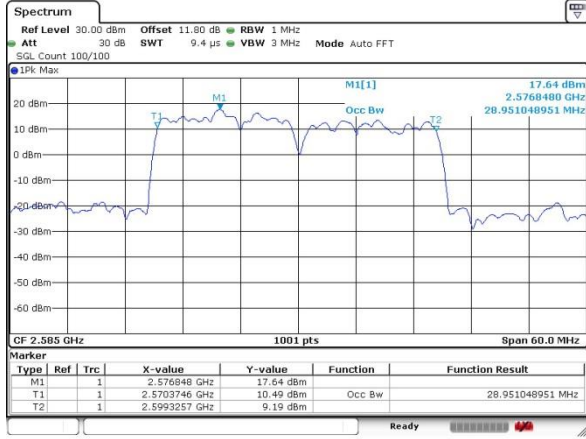
Date: 25 MAY 2017 16:10:42



LTE Band 38

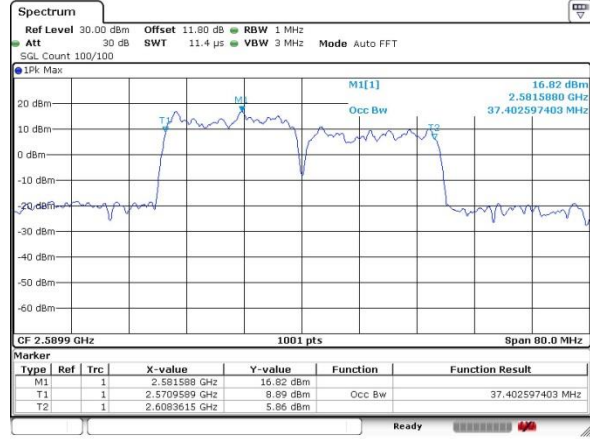
16QAM

Lowest Channel / 15MHz+15MHz



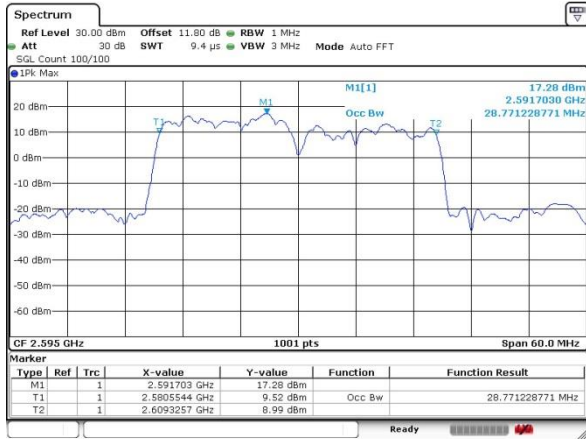
Date: 25 MAY 2017 15:04:11

Lowest Channel / 20MHz+20MHz



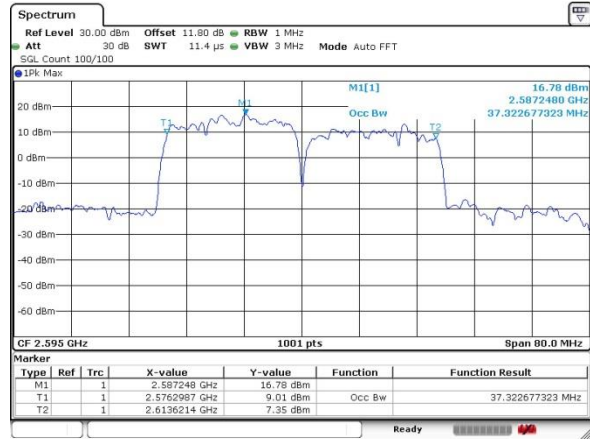
Date: 25 MAY 2017 15:55:51

Middle Channel / 15MHz+15MHz



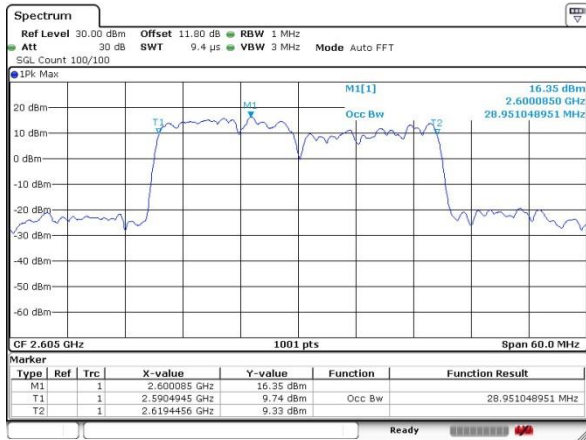
Date: 25 MAY 2017 15:37:10

Middle Channel / 20MHz+20MHz



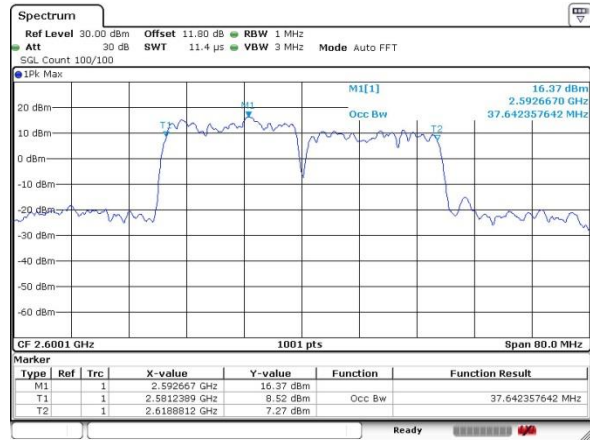
Date: 25 MAY 2017 16:05:02

Highest Channel / 15MHz+15MHz



Date: 25 MAY 2017 15:40:14

Highest Channel / 20MHz+20MHz



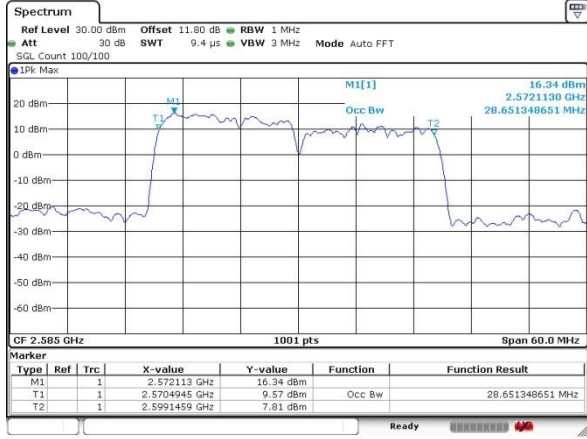
Date: 25 MAY 2017 16:10:28



LTE Band 38

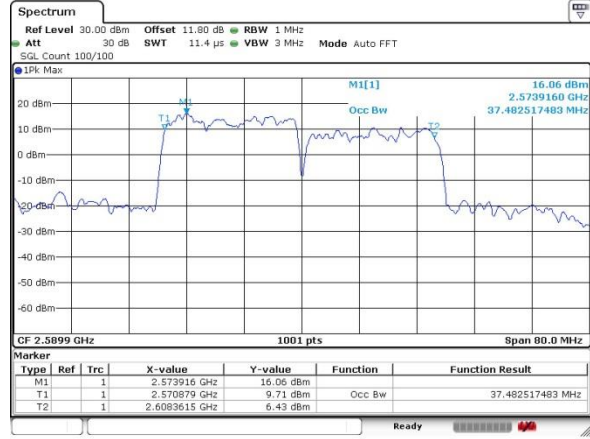
64QAM

Lowest Channel / 15MHz+15MHz



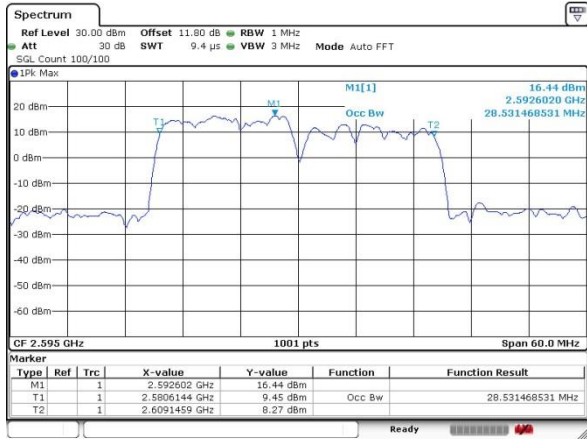
Date: 25 MAY 2017 15:04:25

Lowest Channel / 20MHz+20MHz



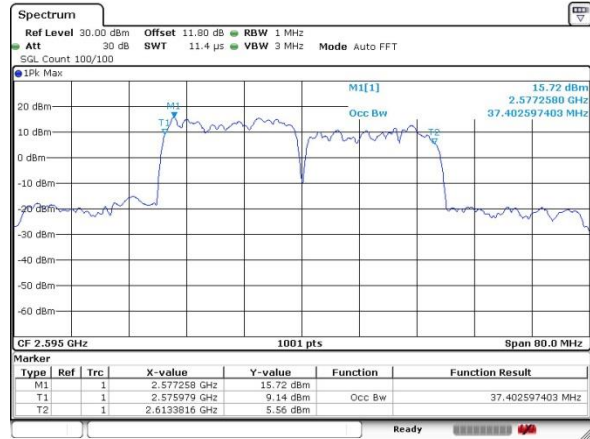
Date: 25 MAY 2017 15:54:59

Middle Channel / 15MHz+15MHz



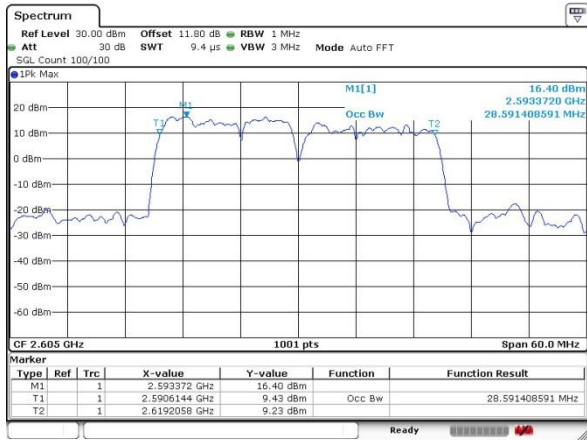
Date: 25 MAY 2017 15:37:21

Middle Channel / 20MHz+20MHz



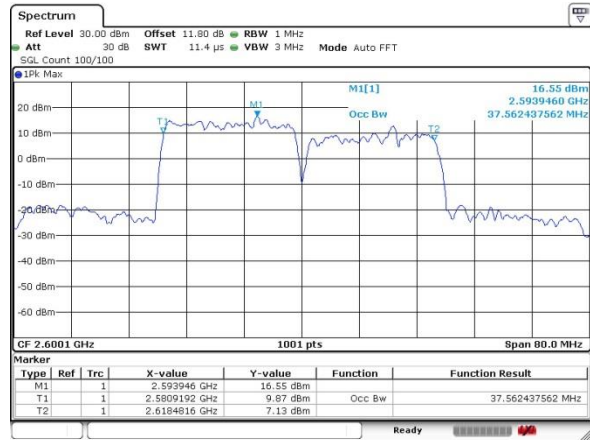
Date: 25 MAY 2017 16:05:21

Highest Channel / 15MHz+15MHz



Date: 25 MAY 2017 15:39:57

Highest Channel / 20MHz+20MHz



Date: 25 MAY 2017 16:10:03



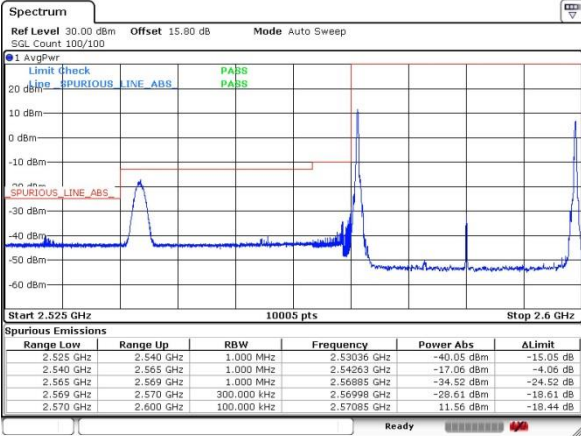
**Conducted Band Edge**



LTE Band 38 / 15MHz+15MHz

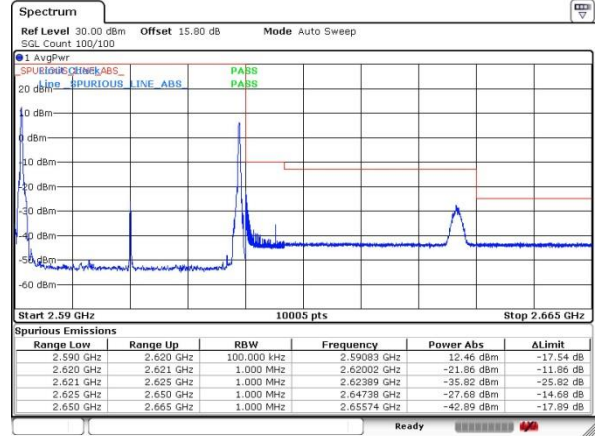
QPSK

Lowest Band Edge / 1RB0 and 1RB74



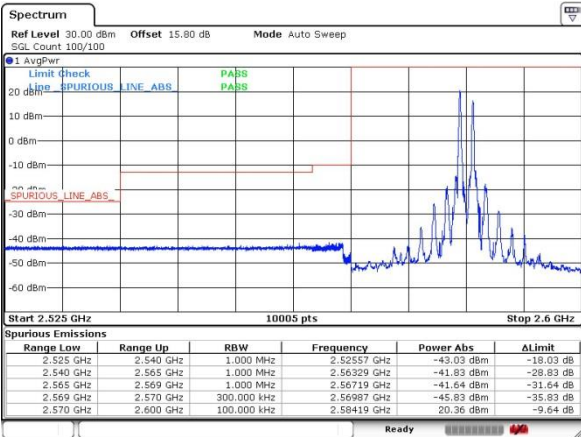
Date: 25 MAY 2017 15:16:54

Highest Band Edge / 1RB0 and 1RB74



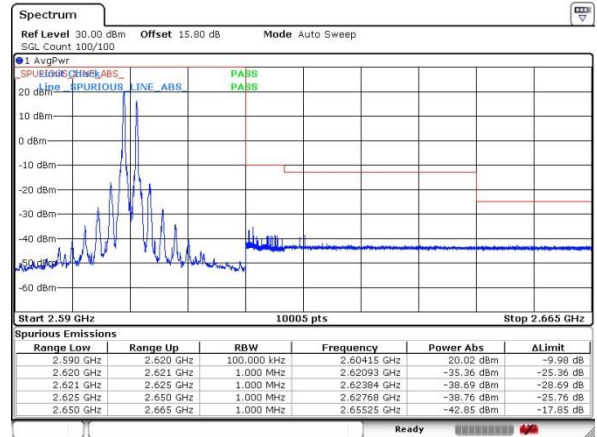
Date: 25 MAY 2017 15:44:31

Lowest Band Edge / 1RB74 and 1RB0



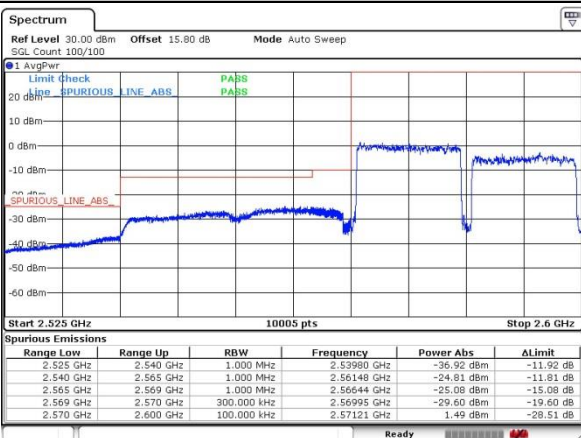
Date: 25 MAY 2017 15:17:07

Highest Band Edge / 1RB74 and 1RB0



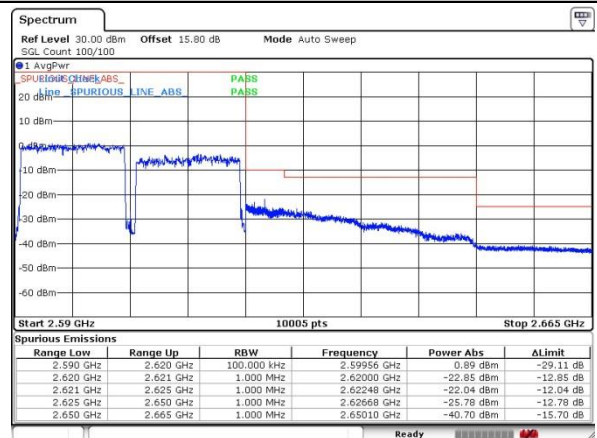
Date: 25 MAY 2017 15:46:56

Lowest Band Edge / Full RB



Date: 25 MAY 2017 15:14:07

Highest Band Edge / Full RB



Date: 25 MAY 2017 15:47:16

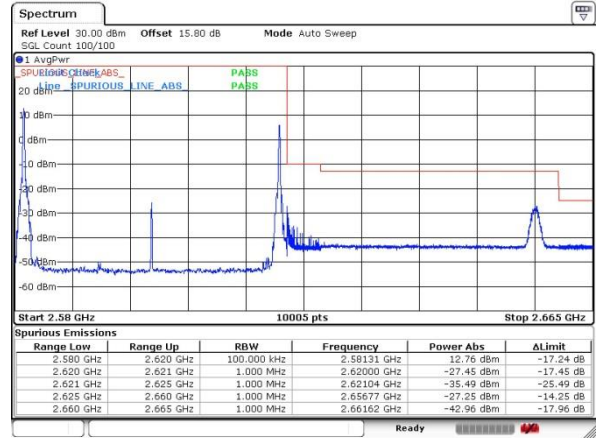
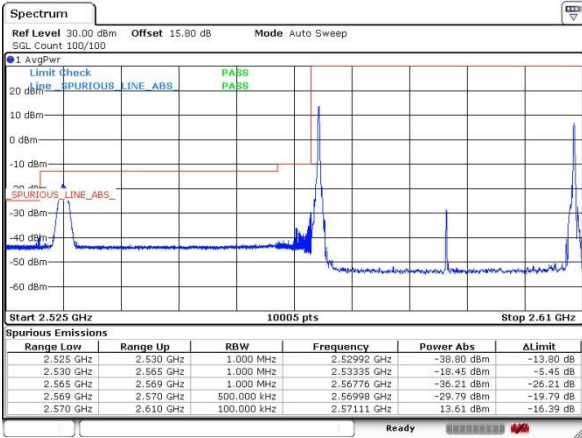


LTE Band 38 / 20MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

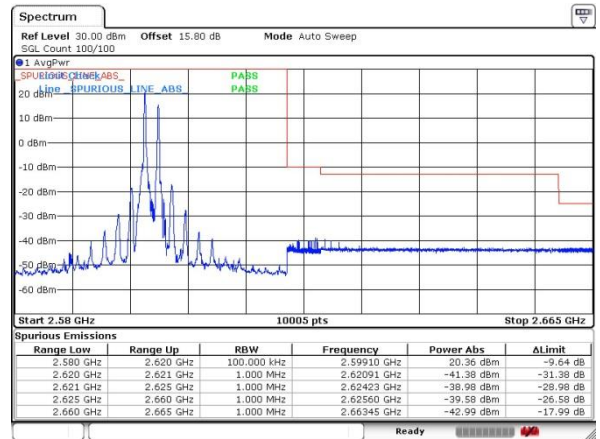
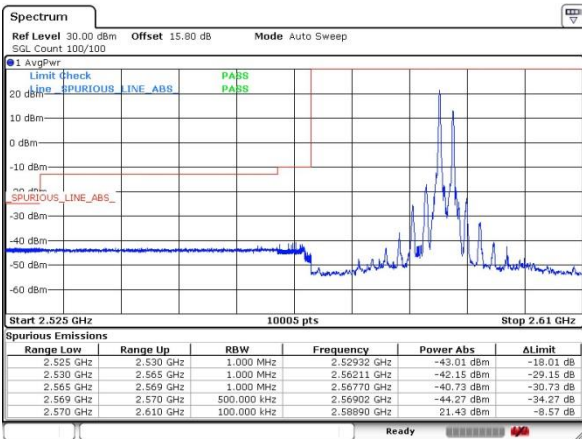


Date: 25 MAY 2017 16:00:07

Date: 25 MAY 2017 16:13:19

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

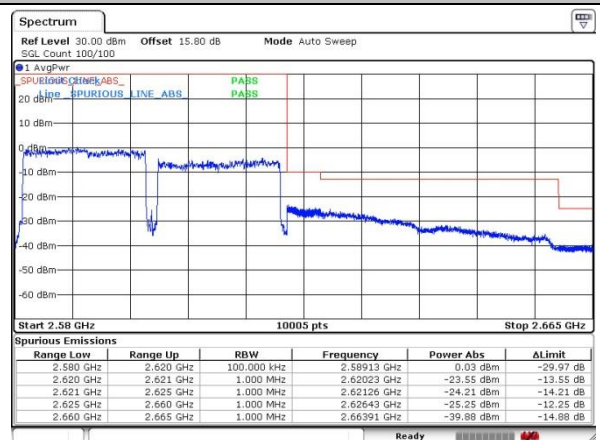
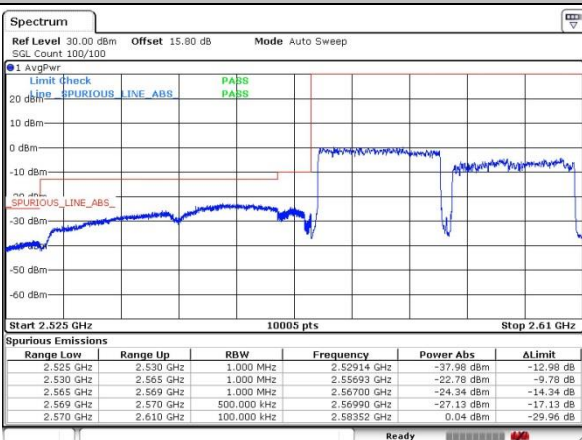


Date: 25 MAY 2017 16:02:47

Date: 25 MAY 2017 16:13:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25 MAY 2017 15:59:00

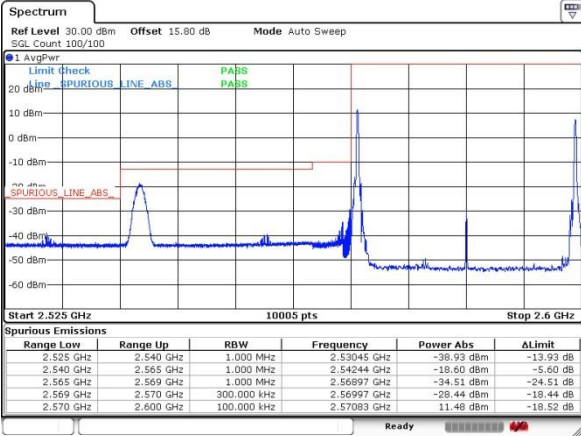
Date: 25 MAY 2017 16:11:01



LTE Band 38 / 15MHz+15MHz

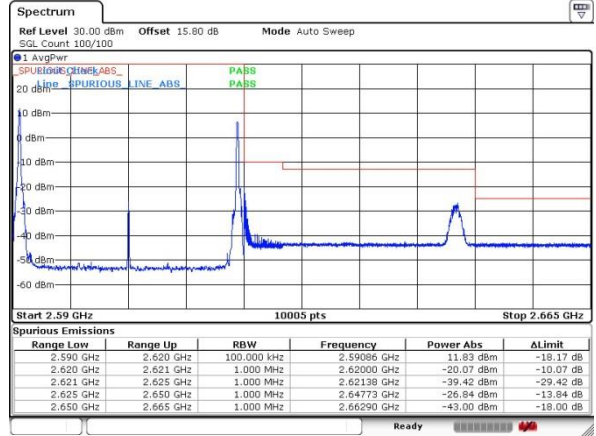
16QAM

Lowest Band Edge / 1RB0 and 1RB74



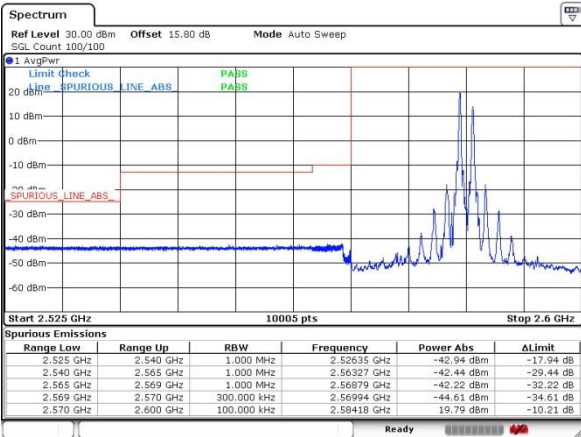
Date: 25 MAY 2017 15:16:38

Highest Band Edge / 1RB0 and 1RB74



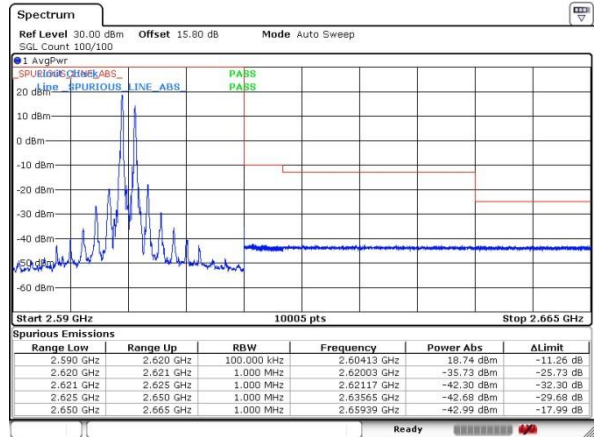
Date: 25 MAY 2017 15:45:08

Lowest Band Edge / 1RB74 and 1RB0



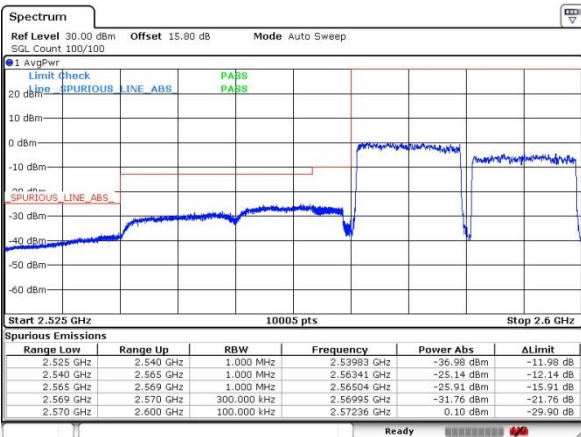
Date: 25 MAY 2017 15:17:31

Highest Band Edge / 1RB74 and 1RB0



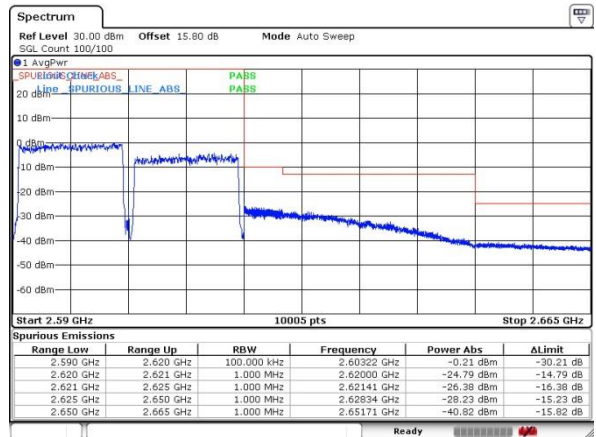
Date: 25 MAY 2017 15:46:35

Lowest Band Edge / Full RB



Date: 25 MAY 2017 15:14:38

Highest Band Edge / Full RB



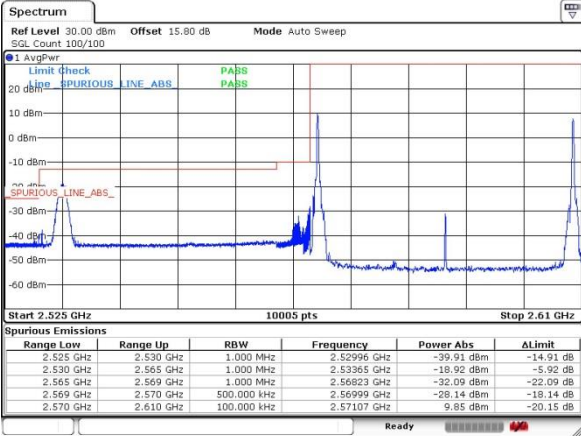
Date: 25 MAY 2017 15:47:45



LTE Band 38 / 20MHz+20MHz

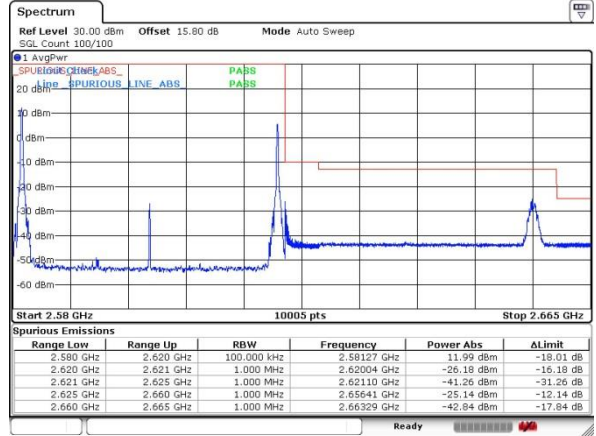
16QAM

Lowest Band Edge / 1RB0 and 1RB9



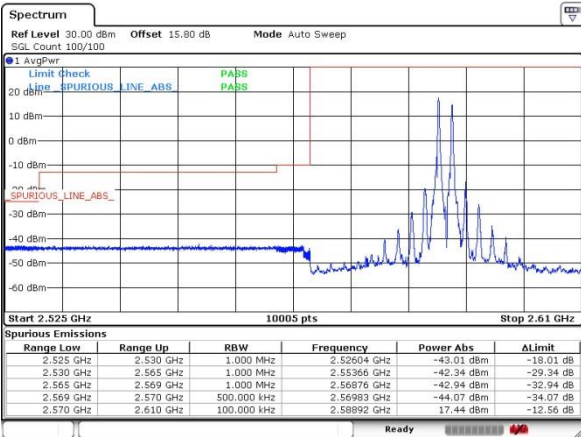
Date: 25 MAY 2017 16:00:50

Highest Band Edge / 1RB0 and 1RB9



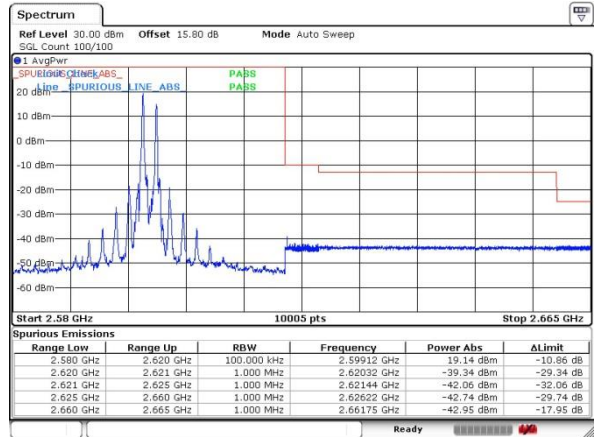
Date: 25 MAY 2017 16:13:55

Lowest Band Edge / 1RB99 and 1RB0



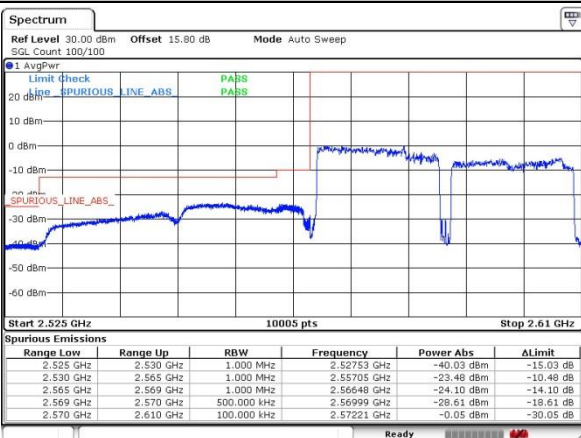
Date: 25 MAY 2017 16:02:29

Highest Band Edge / 1RB99 and 1RB0



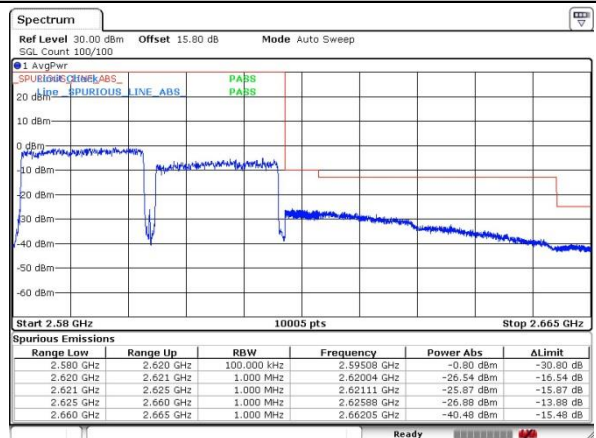
Date: 25 MAY 2017 16:12:43

Lowest Band Edge / Full RB



Date: 25 MAY 2017 15:58:33

Highest Band Edge / Full RB



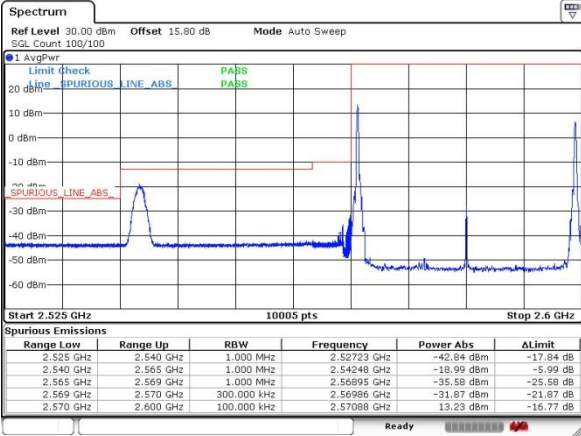
Date: 25 MAY 2017 16:11:32



LTE Band 38 / 15MHz+15MHz

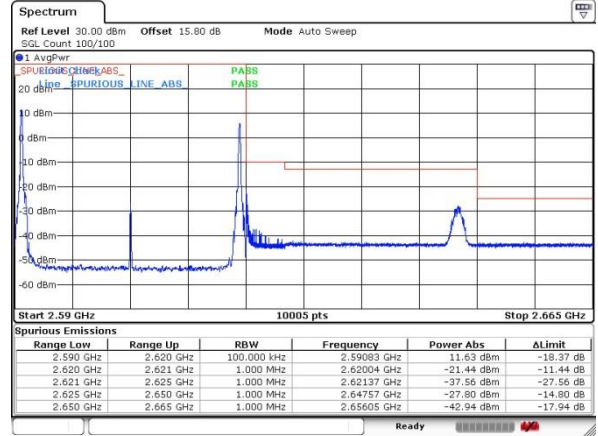
64QAM

Lowest Band Edge / 1RB0 and 1RB74



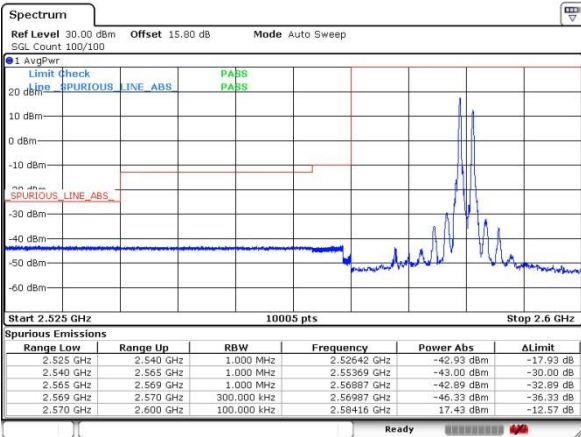
Date: 25 MAY 2017 15:16:05

Highest Band Edge / 1RB0 and 1RB74



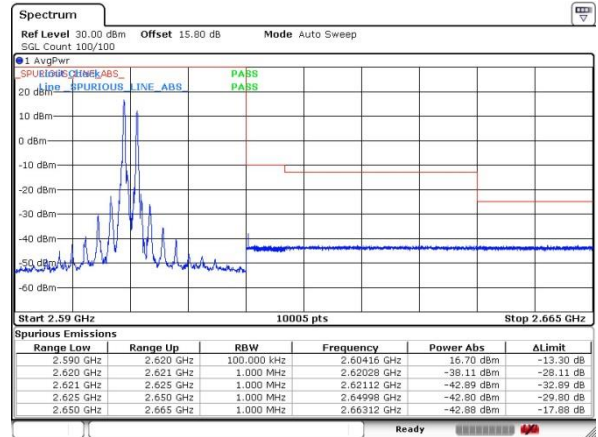
Date: 25 MAY 2017 15:45:40

Lowest Band Edge / 1RB74 and 1RB0



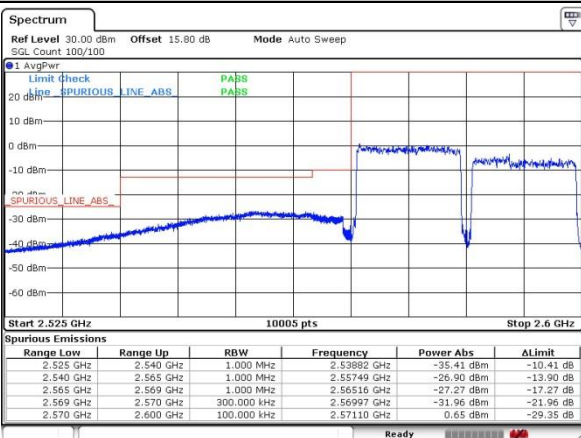
Date: 25 MAY 2017 15:17:45

Highest Band Edge / 1RB74 and 1RB0



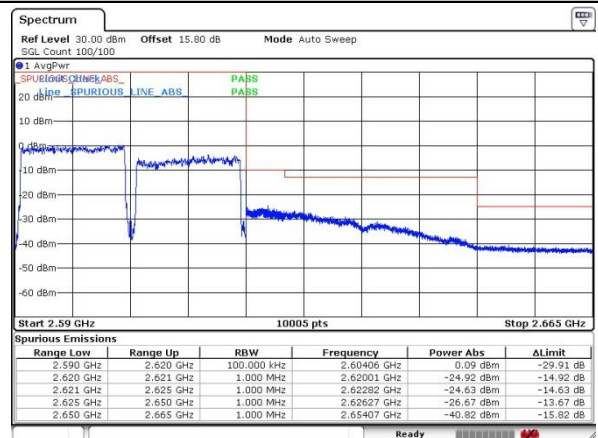
Date: 25 MAY 2017 15:46:09

Lowest Band Edge / Full RB



Date: 25 MAY 2017 15:14:53

Highest Band Edge / Full RB



Date: 25 MAY 2017 15:48:03

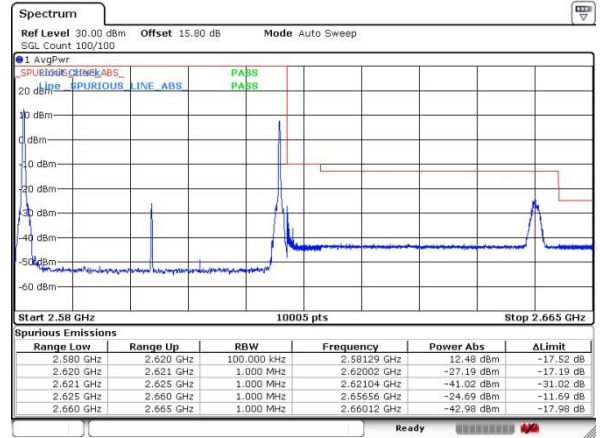
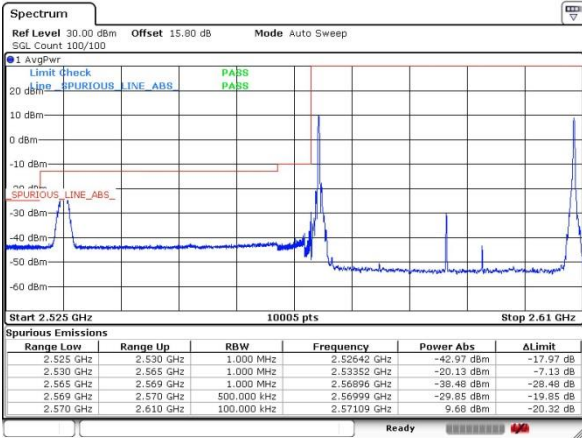


LTE Band 38 / 20MHz+20MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

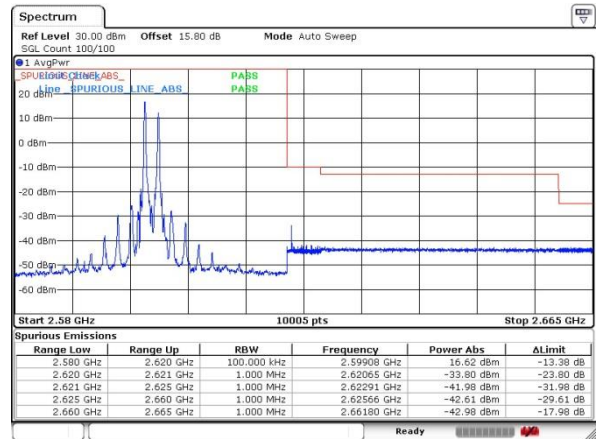
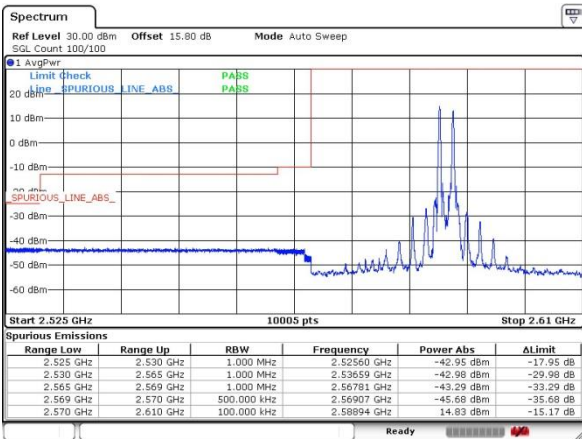


Date: 25 MAY 2017 16:01:54

Date: 25 MAY 2017 16:14:13

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

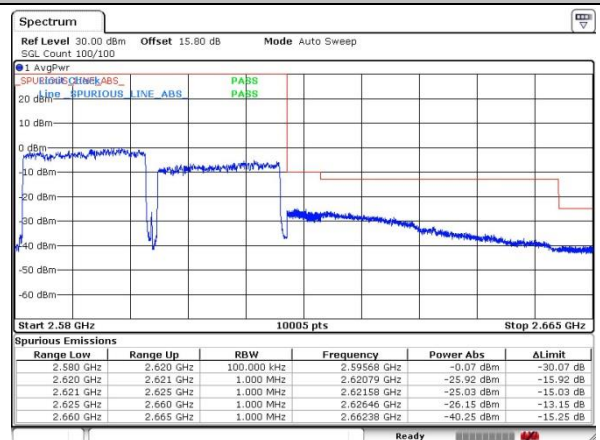
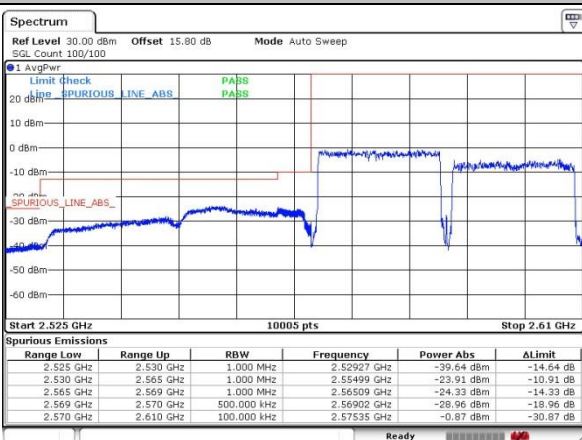


Date: 25 MAY 2017 16:02:11

Date: 25 MAY 2017 16:12:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25 MAY 2017 15:57:56

Date: 25 MAY 2017 16:11:48