

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0044	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0041	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =7.6 V. ; Battery End Point (BEP) =6.8 V. ; Maximum Voltage =8.7 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

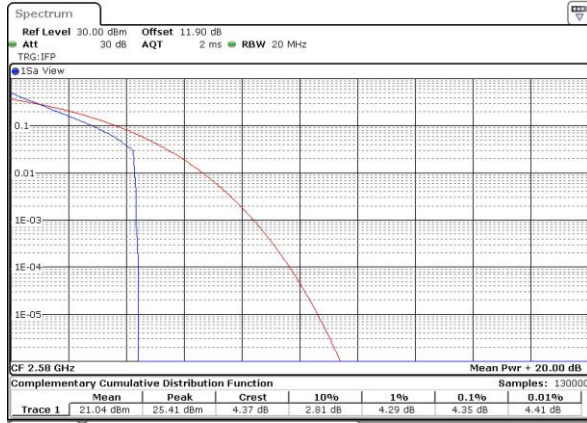
Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.35	5.19	5.48	6.06	PASS
Middle CH	4.58	5.19	5.42	6.03	
Highest CH	4.55	5.16	5.33	6.00	

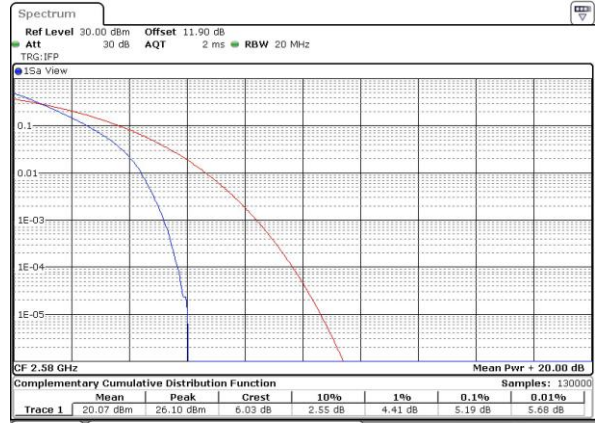


LTE Band 38 / 20MHz / QPSK

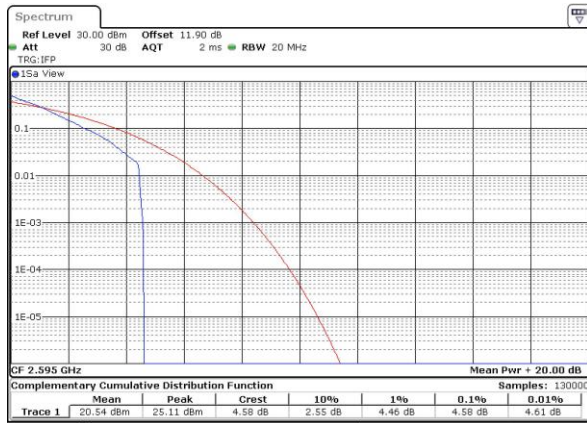
Lowest Channel / 1RB



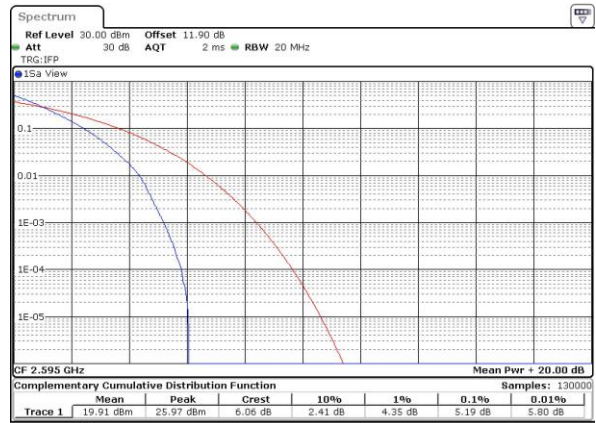
Lowest Channel / Full RB



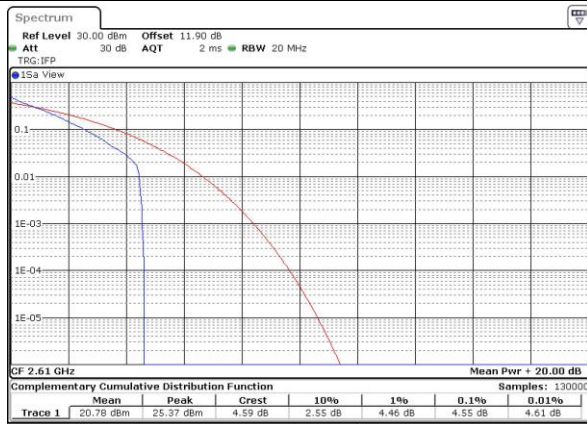
Middle Channel / 1RB



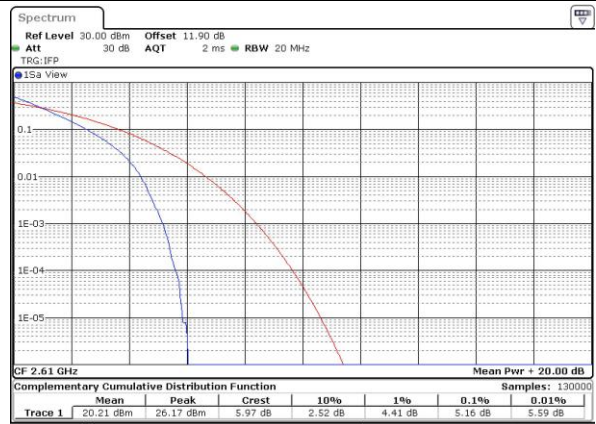
Middle Channel / Full RB



Highest Channel / 1RB



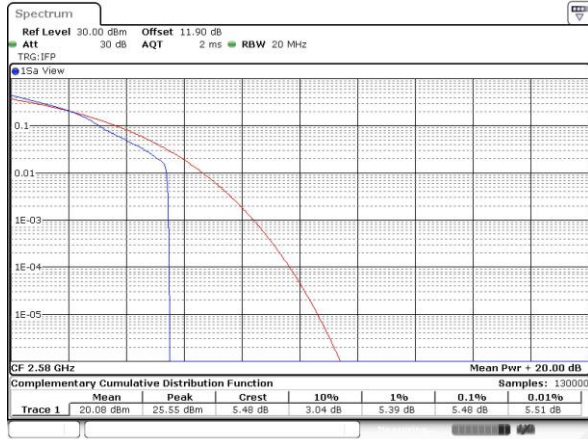
Highest Channel / Full RB



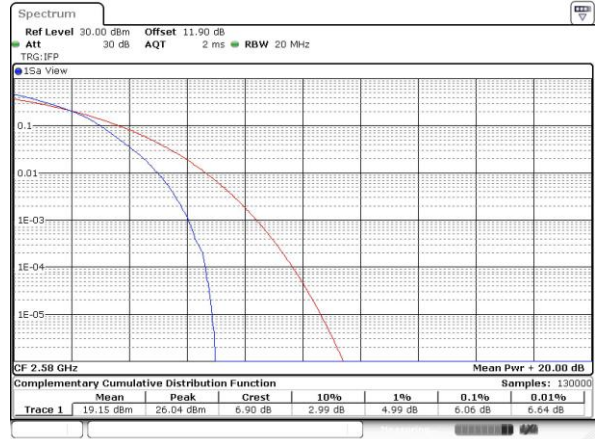


LTE Band 38 / 20MHz / 16QAM

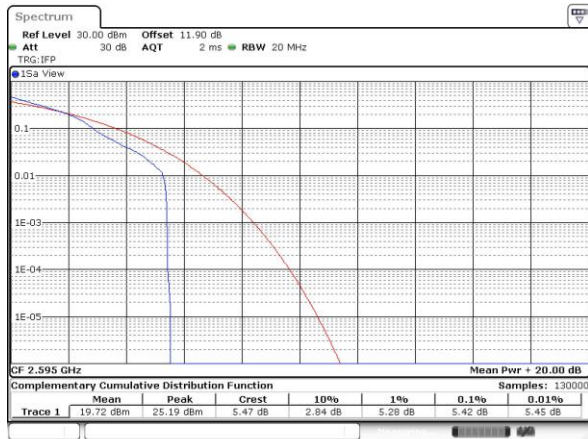
Lowest Channel / 1RB



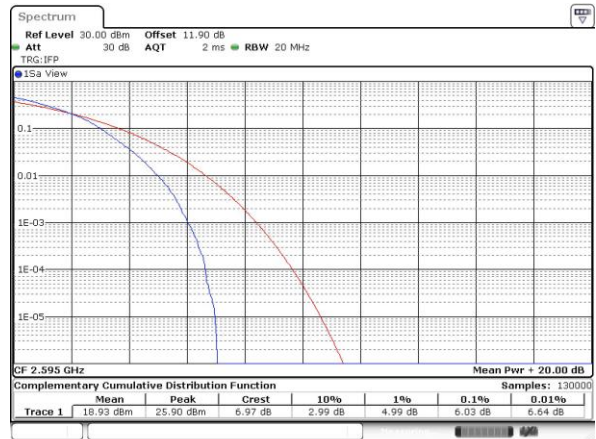
Lowest Channel / Full RB



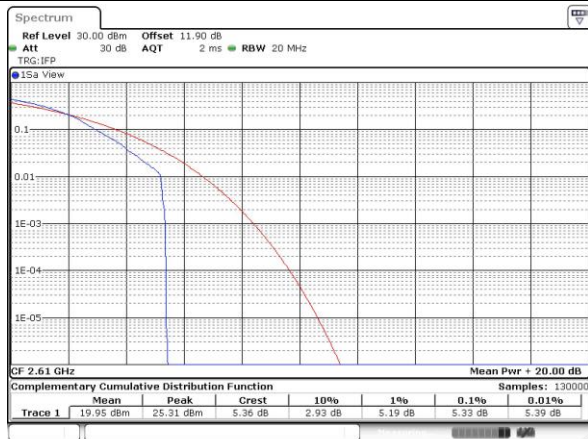
Middle Channel / 1RB



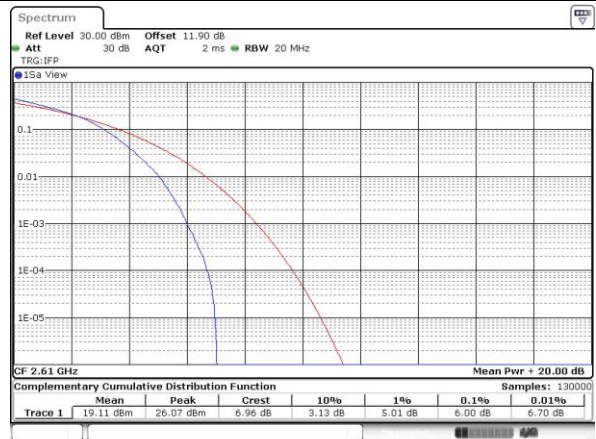
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



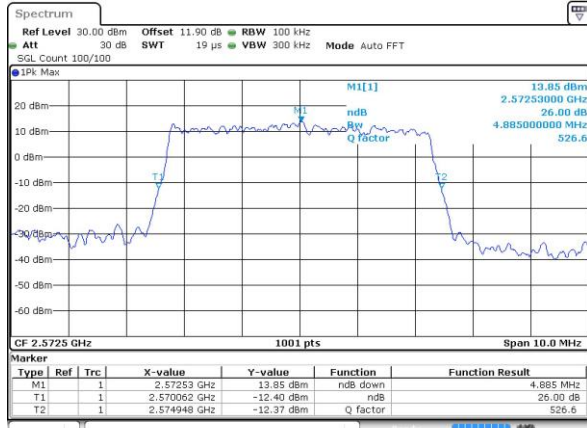
**26dB Bandwidth**

Mode	LTE Band 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	-	-	-	-	4.89	4.77	9.77	9.71	14.09	14.72	20.18	20.10
Middle CH	-	-	-	-	4.92	4.73	9.61	9.83	14.27	14.18	20.14	20.14
Highest CH	-	-	-	-	4.87	5.05	9.73	9.59	14.42	14.39	20.06	20.14



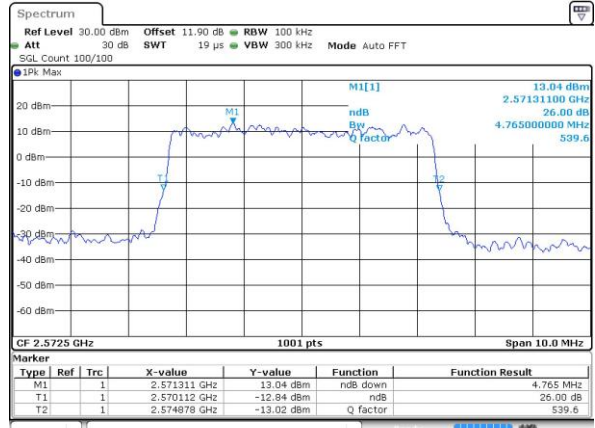
LTE Band 38

Lowest Channel / 5MHz / QPSK



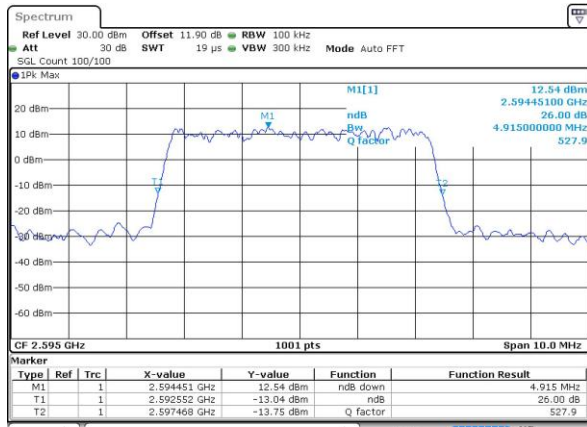
Date: 11.OCT.2018 00:42:44

Lowest Channel / 5MHz / 16QAM



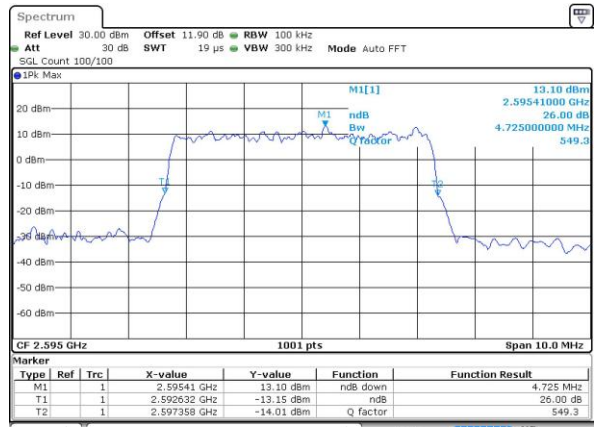
Date: 11.OCT.2018 00:42:55

Middle Channel / 5MHz / QPSK



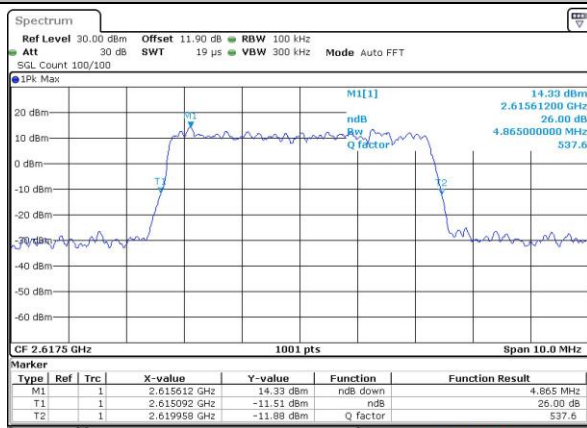
Date: 11.OCT.2018 00:43:29

Middle Channel / 5MHz / 16QAM



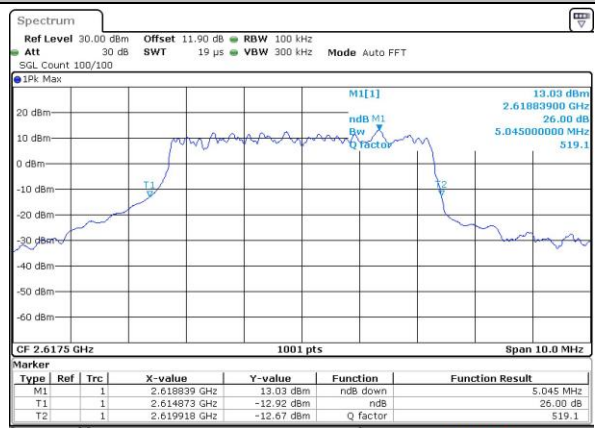
Date: 11.OCT.2018 00:43:41

Highest Channel / 5MHz / QPSK



Date: 11.OCT.2018 00:44:15

Highest Channel / 5MHz / 16QAM

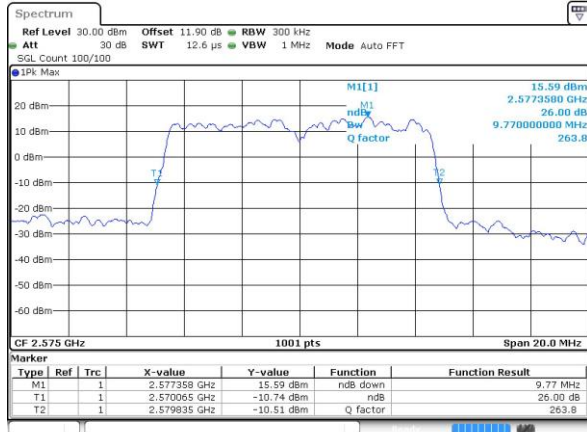


Date: 11.OCT.2018 00:44:26



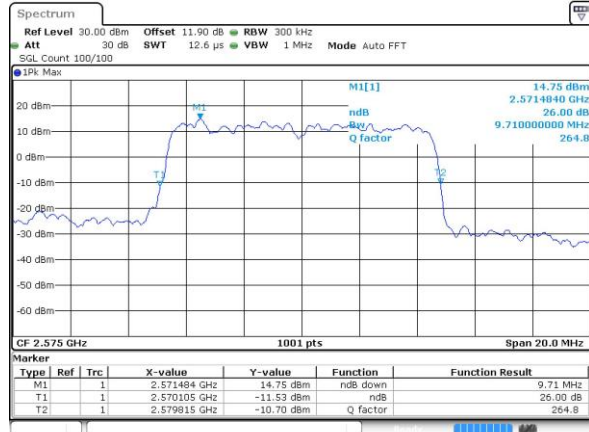
LTE Band 38

Lowest Channel / 10MHz / QPSK



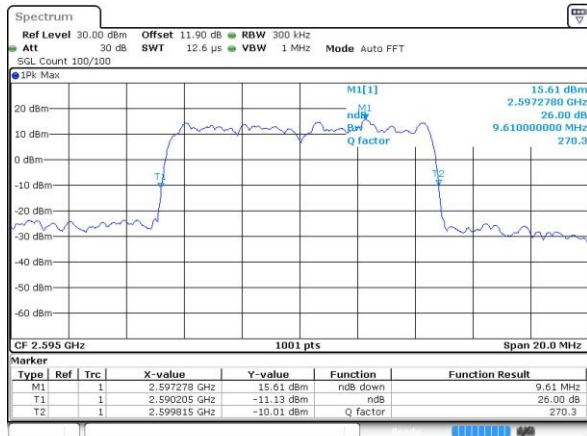
Date: 11.OCT.2018 00:45:00

Lowest Channel / 10MHz / 16QAM



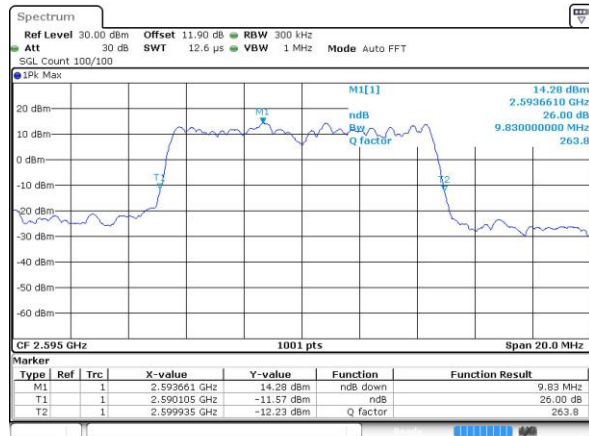
Date: 11.OCT.2018 00:45:12

Middle Channel / 10MHz / QPSK



Date: 11.OCT.2018 00:45:46

Middle Channel / 10MHz / 16QAM



Date: 11.OCT.2018 00:45:58

Highest Channel / 10MHz / QPSK



Date: 11.OCT.2018 00:46:32

Highest Channel / 10MHz / 16QAM

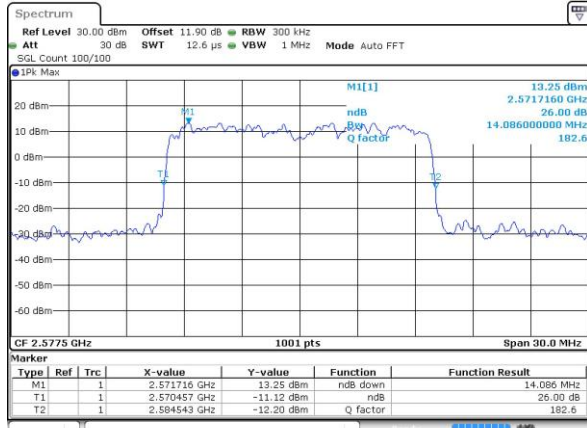


Date: 11.OCT.2018 00:46:43



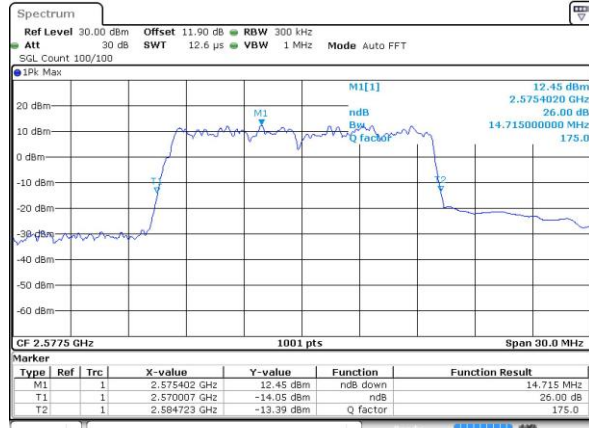
LTE Band 38

Lowest Channel / 15MHz / QPSK



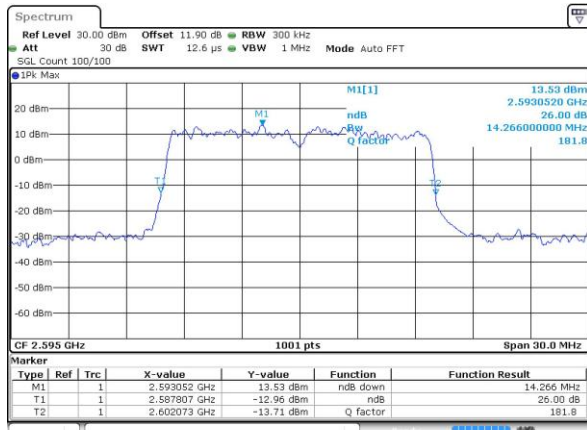
Date: 11.OCT.2018 00:47:17

Lowest Channel / 15MHz / 16QAM



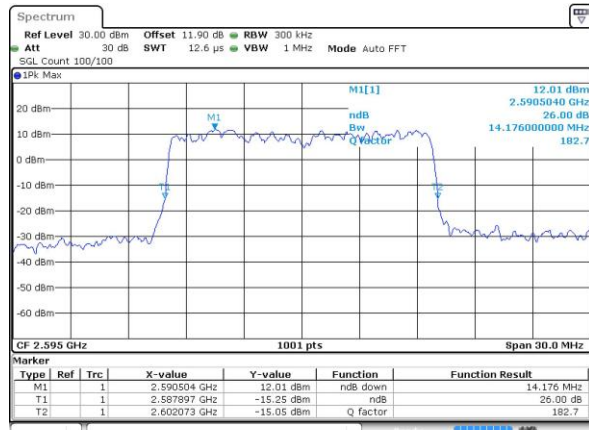
Date: 11.OCT.2018 00:47:28

Middle Channel / 15MHz / QPSK



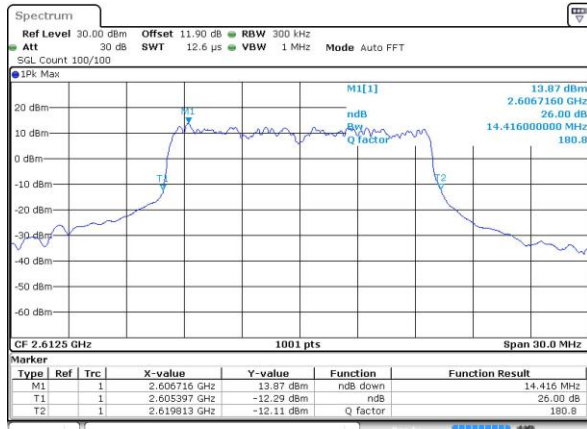
Date: 11.OCT.2018 00:48:03

Middle Channel / 15MHz / 16QAM



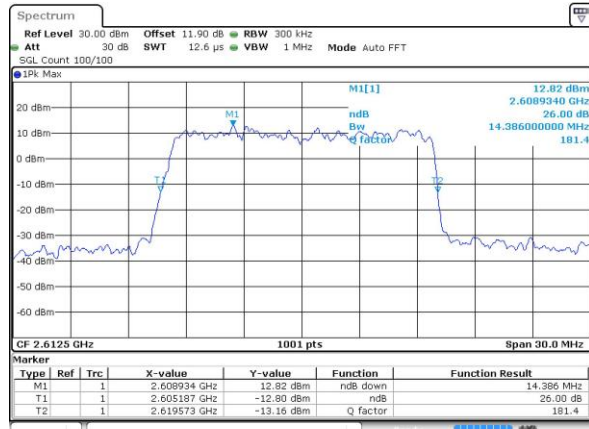
Date: 11.OCT.2018 00:48:14

Highest Channel / 15MHz / QPSK



Date: 11.OCT.2018 00:48:48

Highest Channel / 15MHz / 16QAM

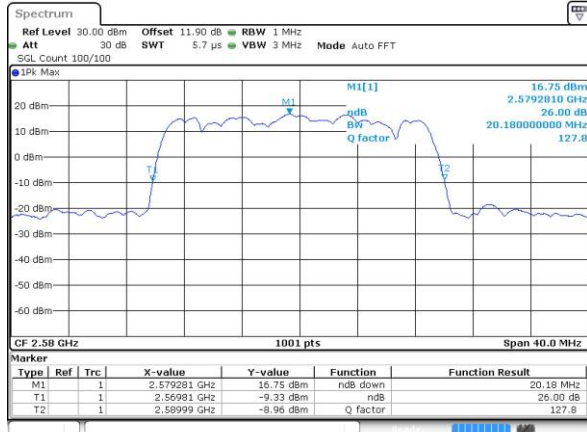


Date: 11.OCT.2018 00:49:00

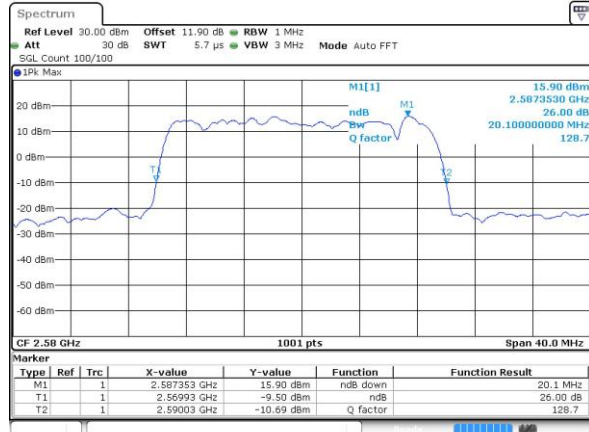


LTE Band 38

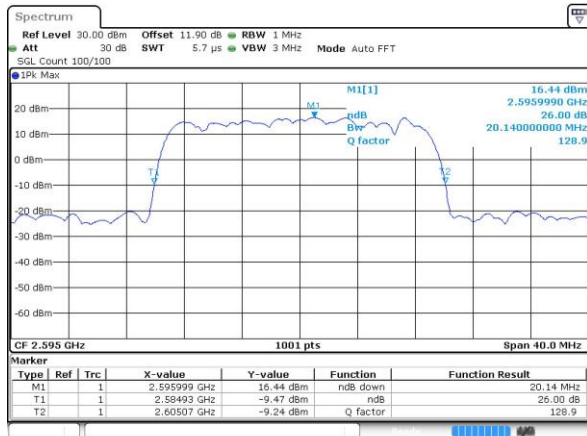
Lowest Channel / 20MHz / QPSK



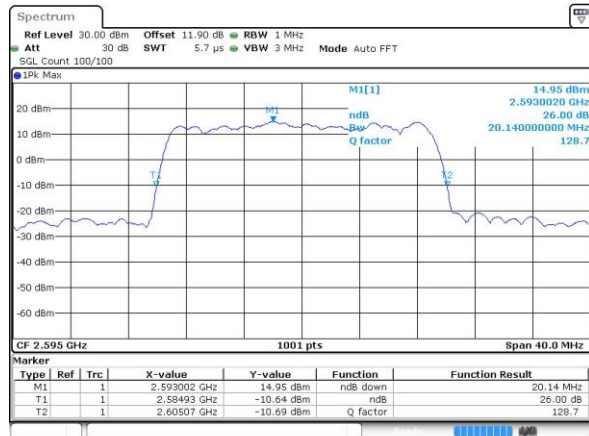
Lowest Channel / 20MHz / 16QAM



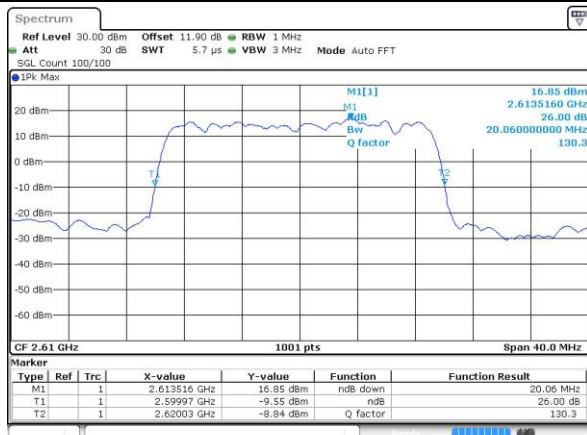
Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM





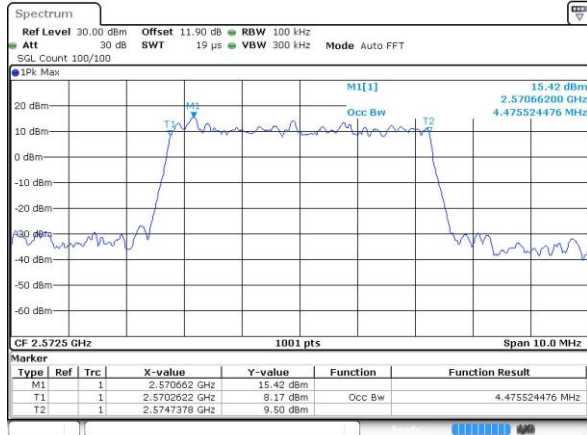
Occupied Bandwidth

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	-	-	-	-	4.48	4.51	8.97	9.05	13.49	13.46	18.46	18.38
Middle CH	-	-	-	-	4.47	4.52	9.03	9.03	13.52	13.49	18.50	18.38
Highest CH	-	-	-	-	4.52	4.49	8.95	9.05	13.49	13.43	18.34	18.34



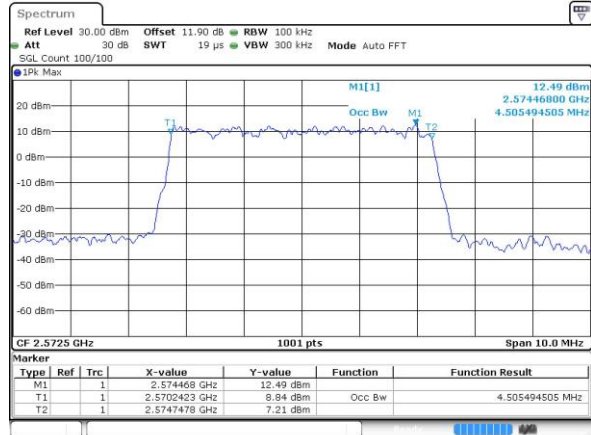
LTE Band 38

Lowest Channel / 5MHz / QPSK



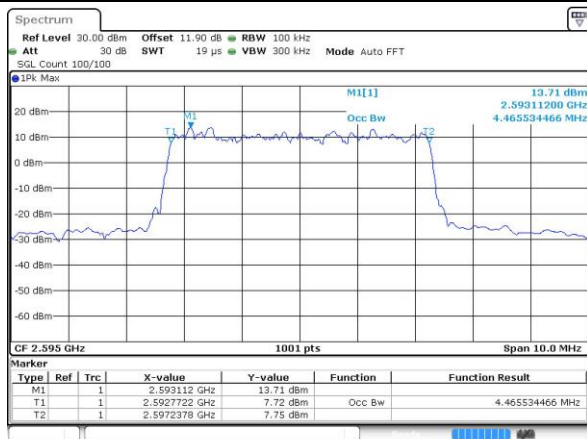
Date: 11.OCT.2018 00:42:21

Lowest Channel / 5MHz / 16QAM



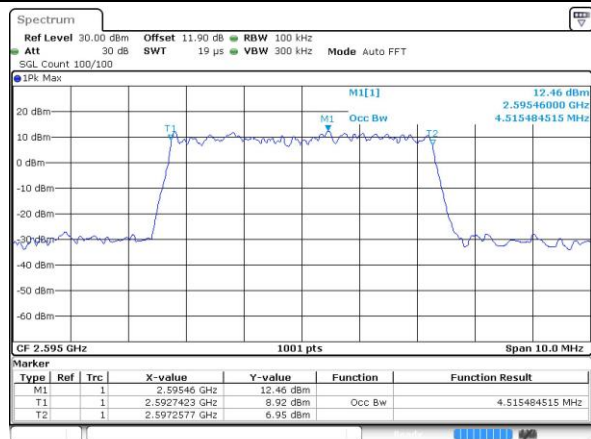
Date: 11.OCT.2018 00:42:32

Middle Channel / 5MHz / QPSK



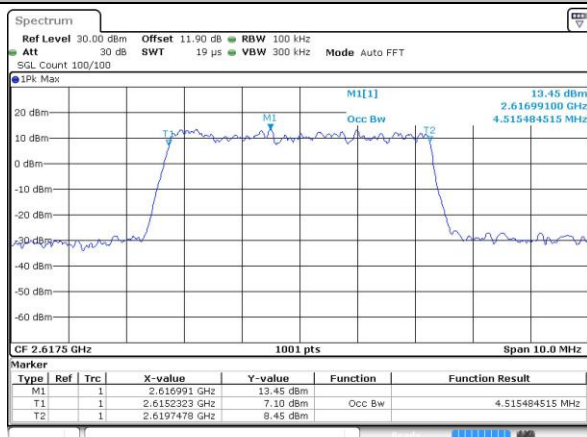
Date: 11.OCT.2018 00:43:07

Middle Channel / 5MHz / 16QAM



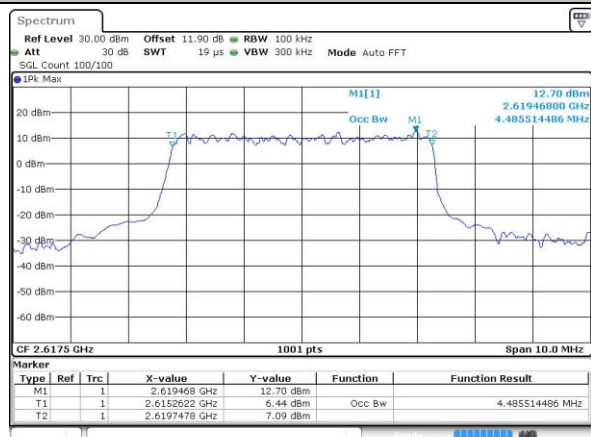
Date: 11.OCT.2018 00:43:18

Highest Channel / 5MHz / QPSK



Date: 11.OCT.2018 00:43:52

Highest Channel / 5MHz / 16QAM

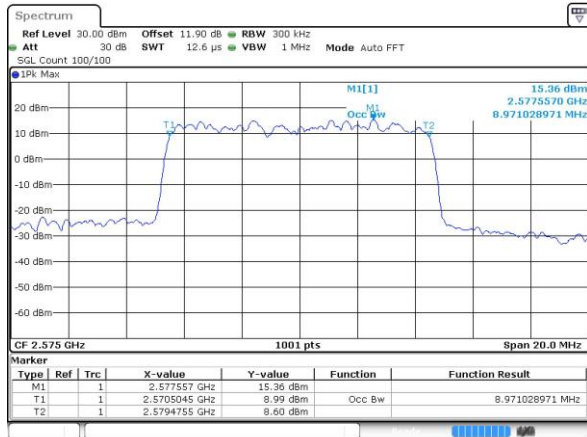


Date: 11.OCT.2018 00:44:03



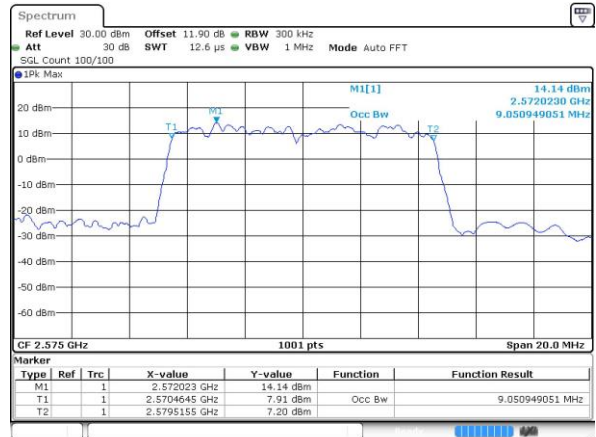
LTE Band 38

Lowest Channel / 10MHz / QPSK



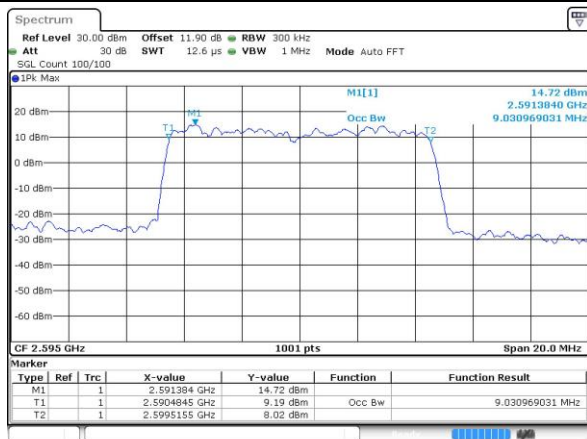
Date: 11.OCT.2018 00:44:37

Lowest Channel / 10MHz / 16QAM



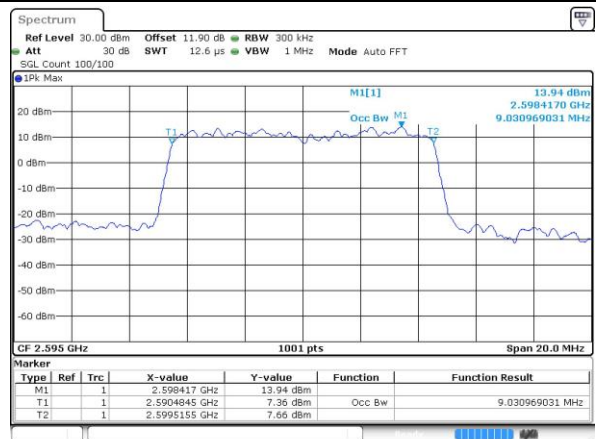
Date: 11.OCT.2018 00:44:49

Middle Channel / 10MHz / QPSK



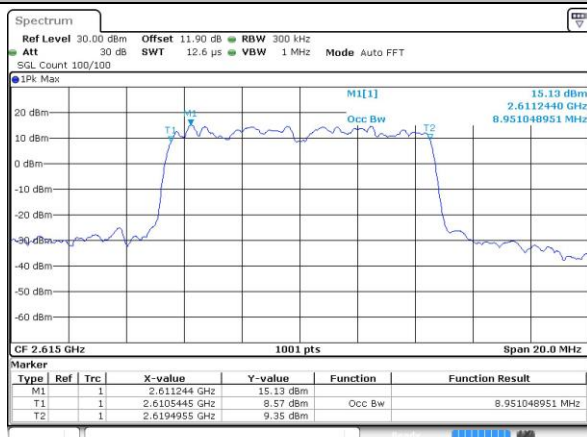
Date: 11.OCT.2018 00:45:23

Middle Channel / 10MHz / 16QAM



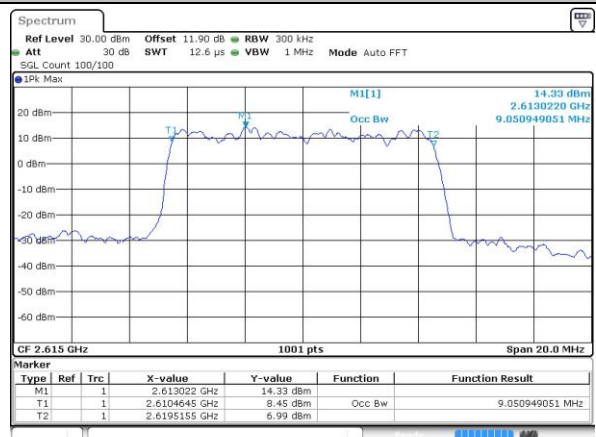
Date: 11.OCT.2018 00:45:35

Highest Channel / 10MHz / QPSK



Date: 11.OCT.2018 00:46:09

Highest Channel / 10MHz / 16QAM

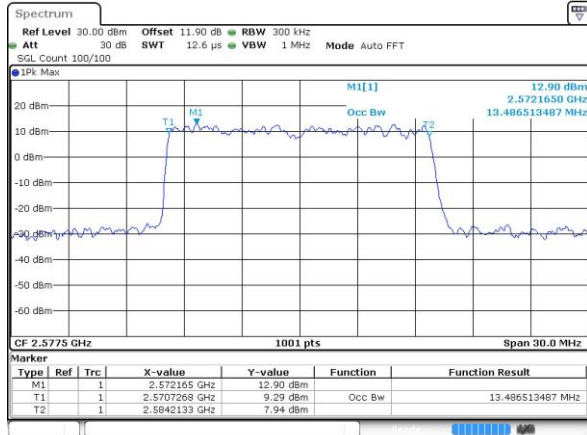


Date: 11.OCT.2018 00:46:20



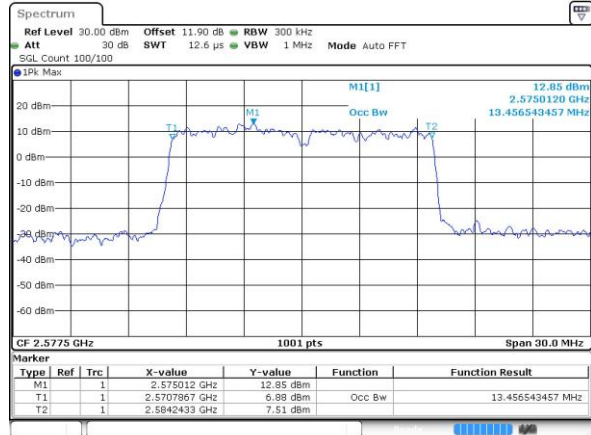
LTE Band 38

Lowest Channel / 15MHz / QPSK



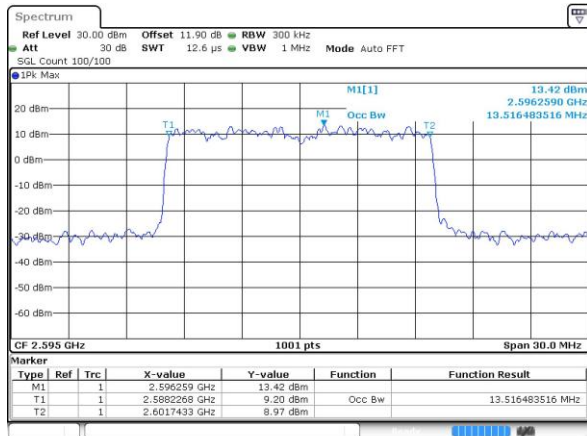
Date: 11.OCT.2018 00:46:54

Lowest Channel / 15MHz / 16QAM



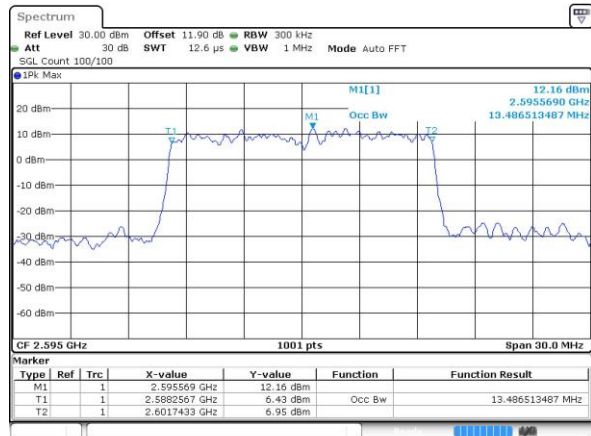
Date: 11.OCT.2018 00:47:06

Middle Channel / 15MHz / QPSK



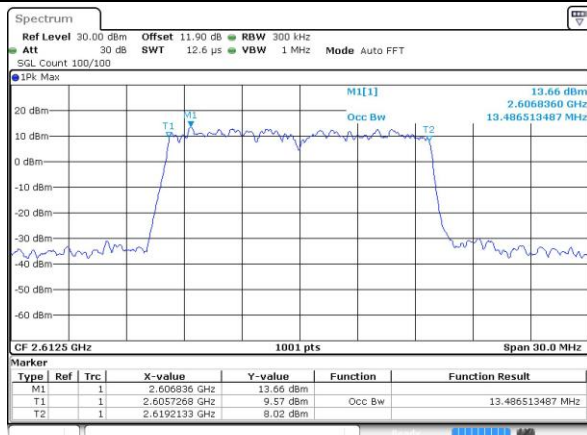
Date: 11.OCT.2018 00:47:40

Middle Channel / 15MHz / 16QAM



Date: 11.OCT.2018 00:47:51

Highest Channel / 15MHz / QPSK



Date: 11.OCT.2018 00:48:26

Highest Channel / 15MHz / 16QAM

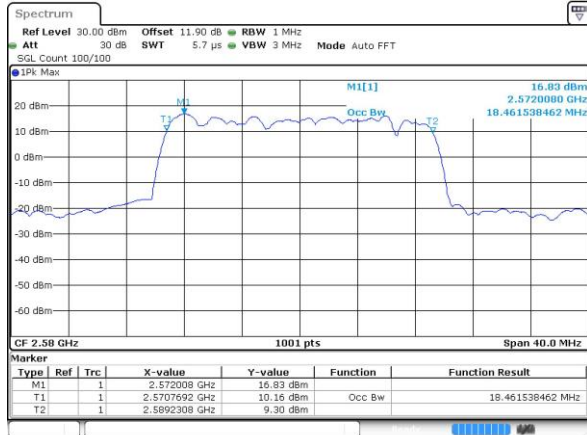


Date: 11.OCT.2018 00:48:37

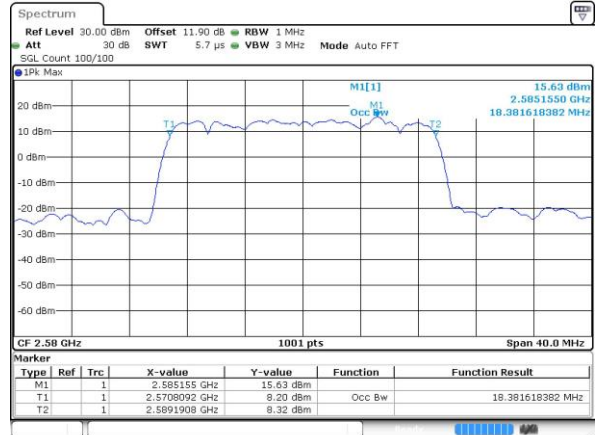


LTE Band 38

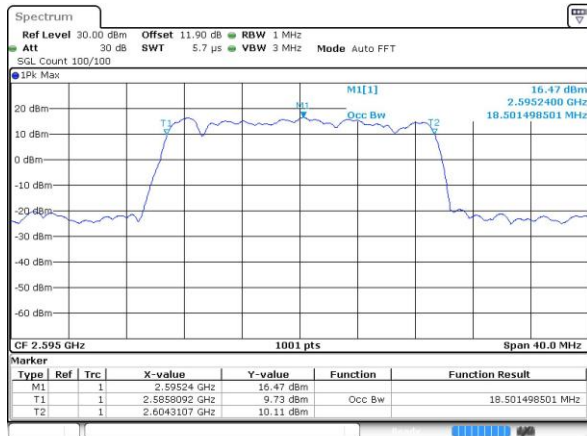
Lowest Channel / 20MHz / QPSK



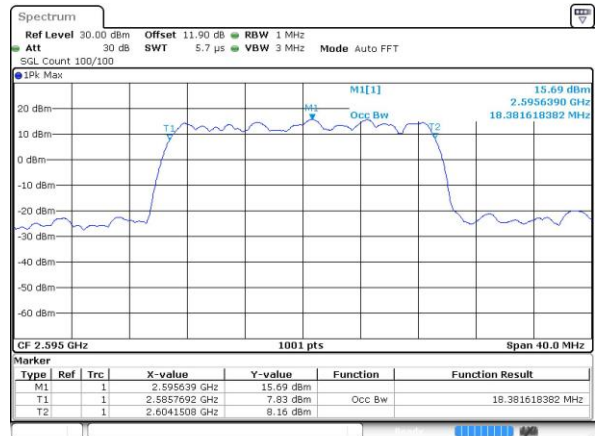
Lowest Channel / 20MHz / 16QAM



Middle Channel / 20MHz / QPSK



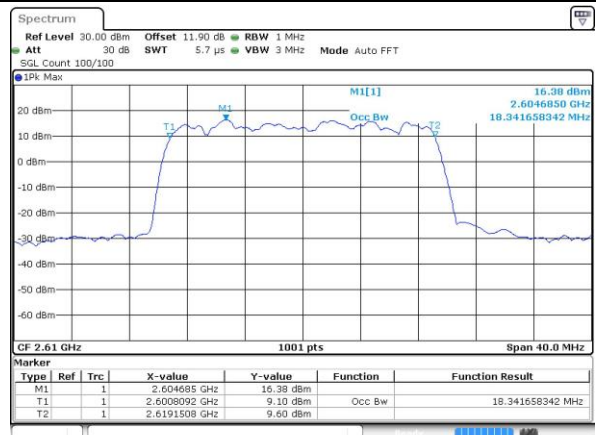
Middle Channel / 20MHz / 16QAM

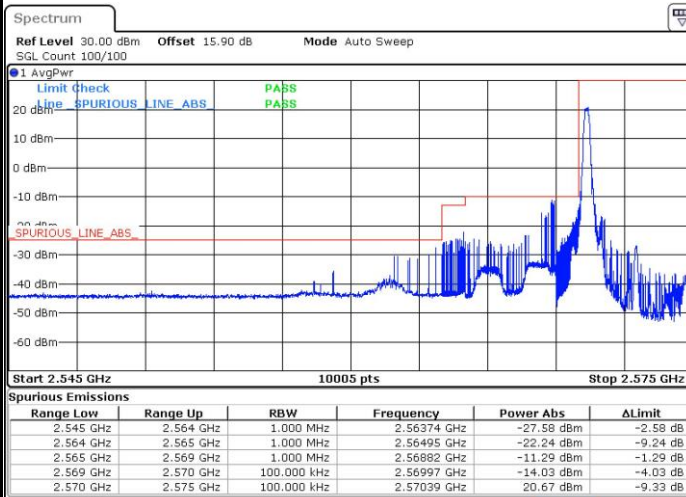
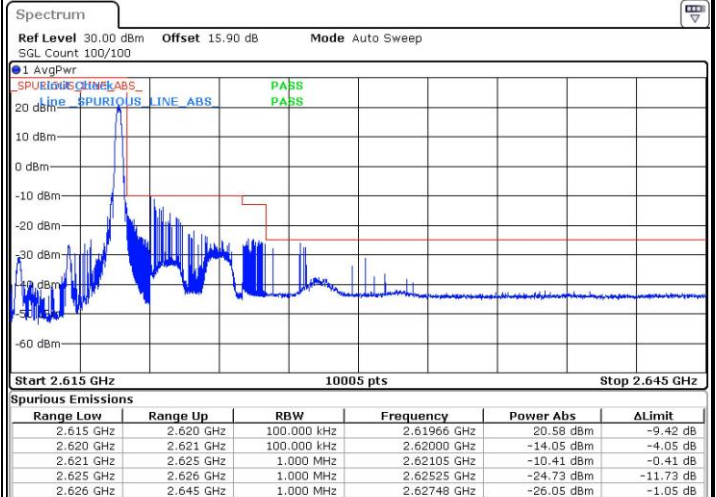
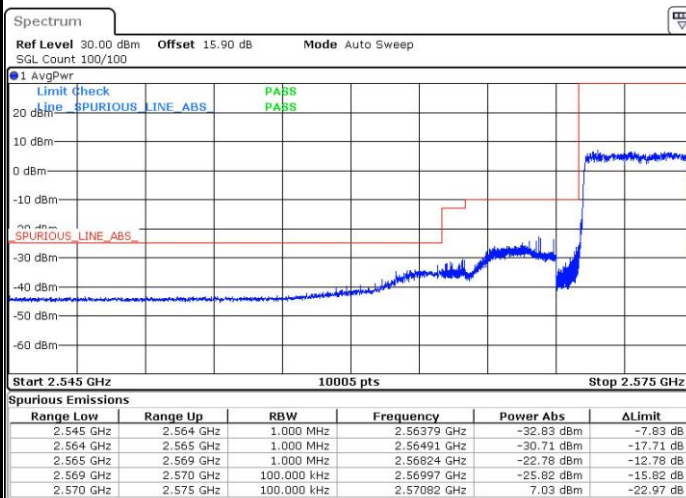
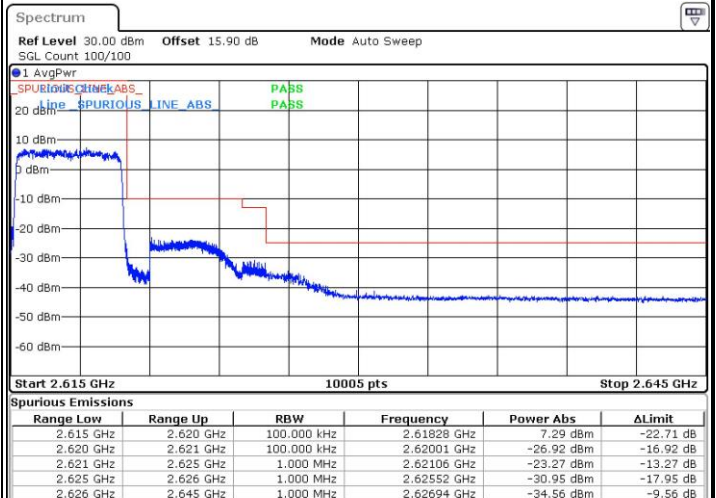


Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

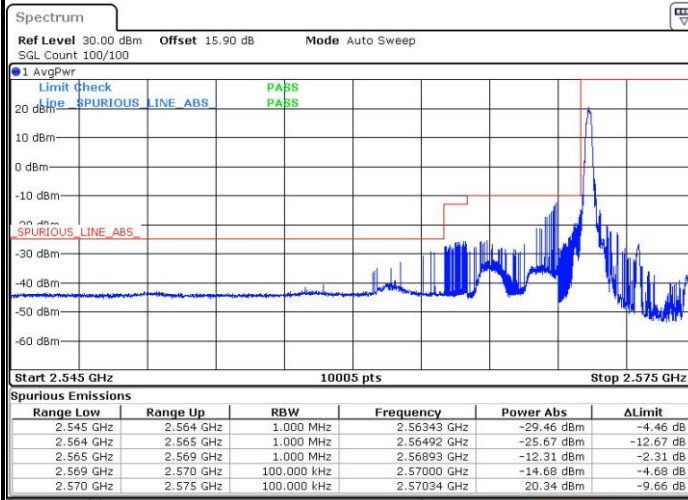


**Conducted Band Edge****LTE Band 38 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

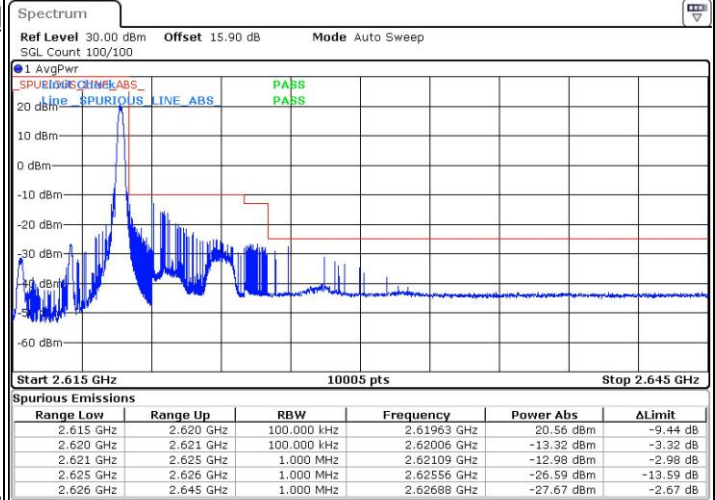


LTE Band 38 / 5MHz / 16QAM

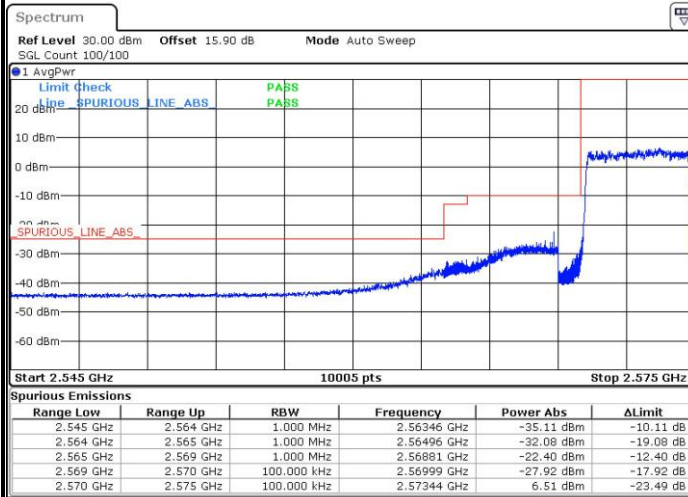
Lowest Band Edge / 1RB



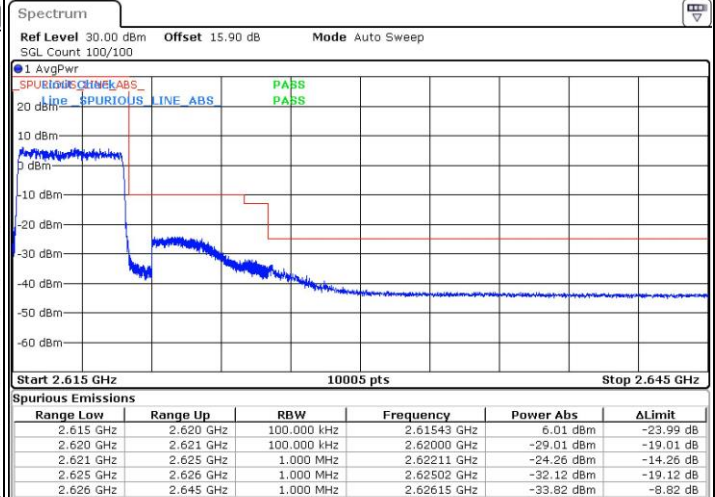
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



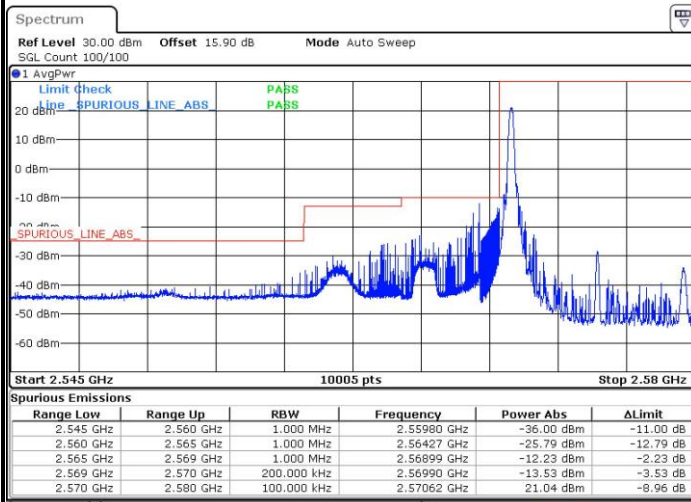
Highest Band Edge / Full RB



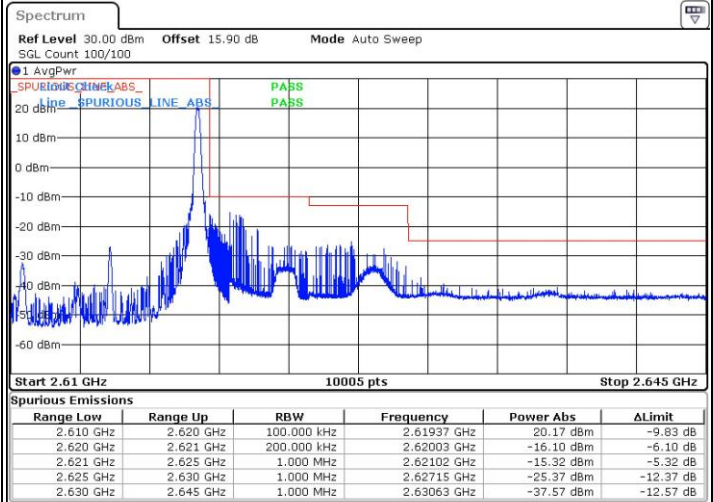


LTE Band 38 / 10MHz / QPSK

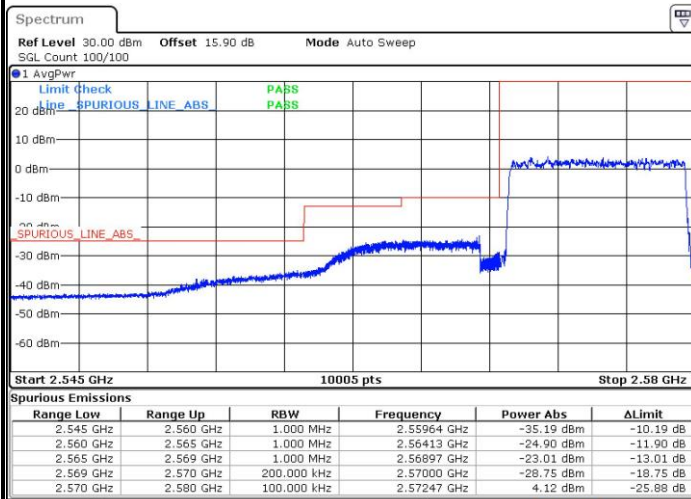
Lowest Band Edge / 1 RB



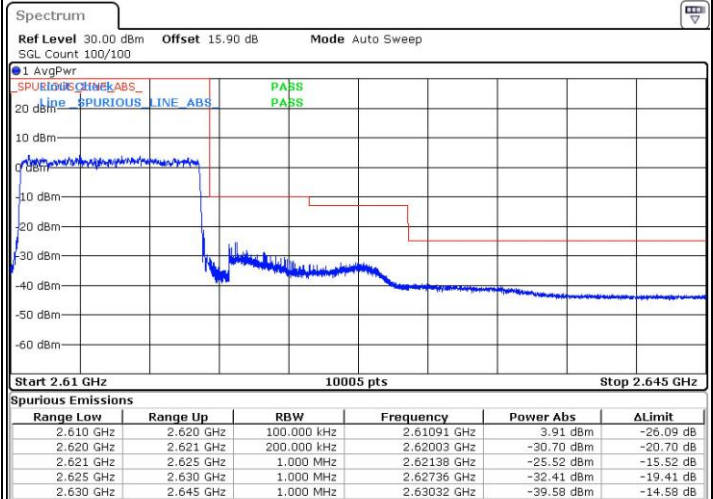
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



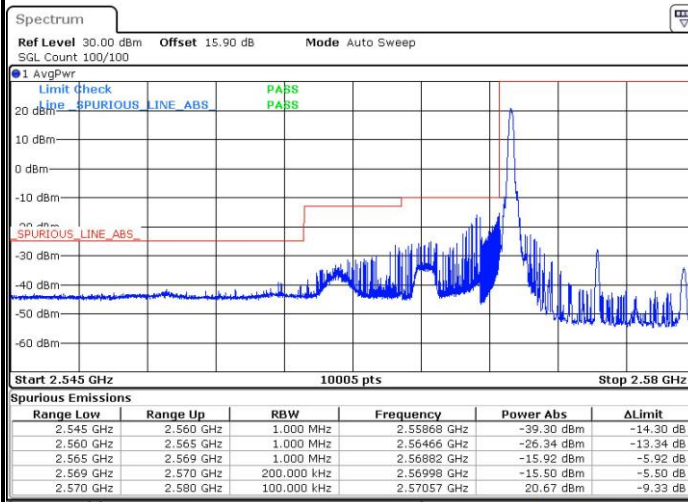
Highest Band Edge / Full RB



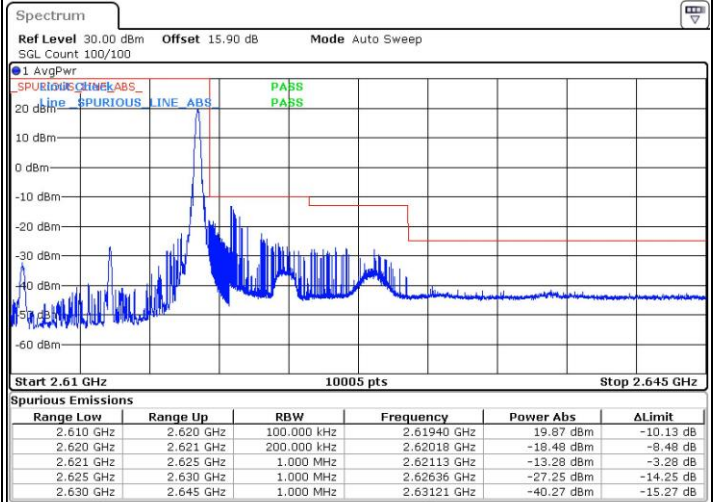


LTE Band 38 / 10MHz / 16QAM

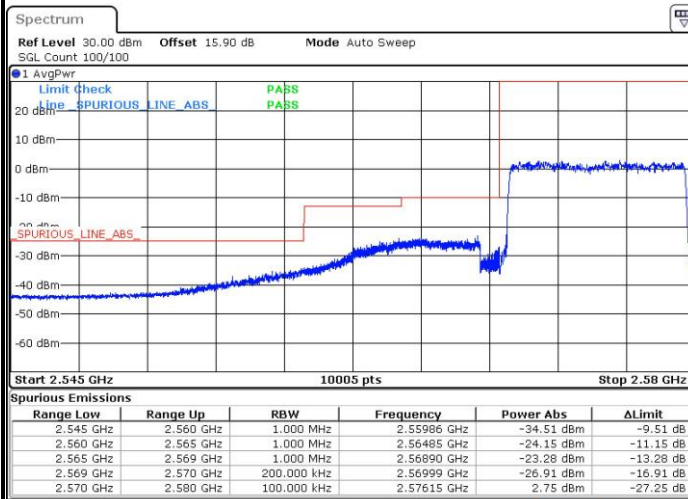
Lowest Band Edge / 1 RB



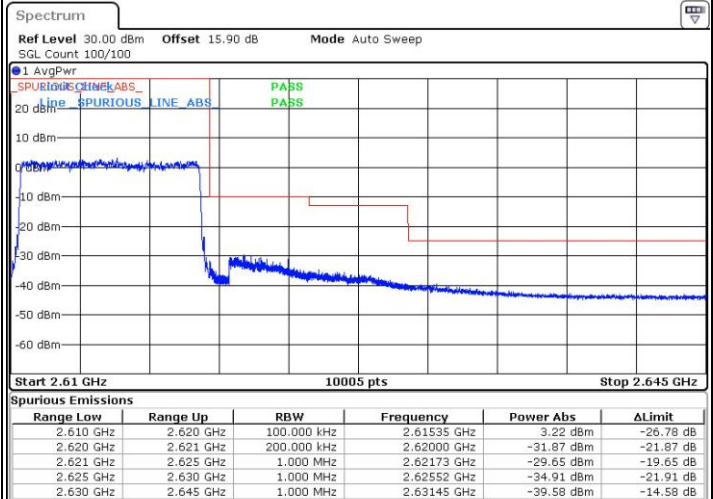
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



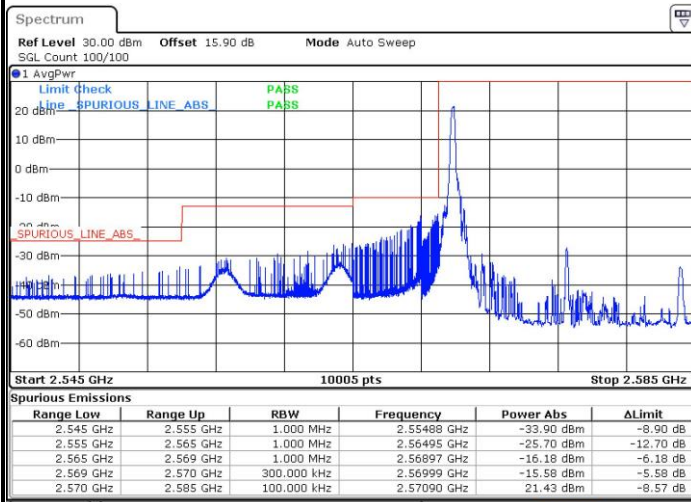
Highest Band Edge / Full RB



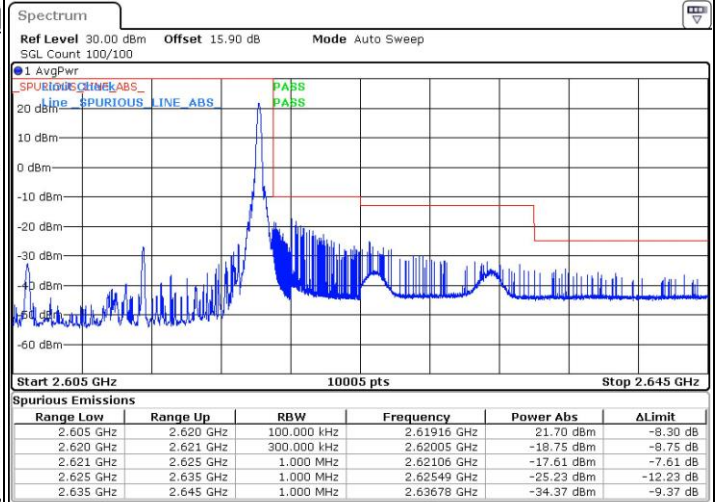


LTE Band 38 / 15MHz / QPSK

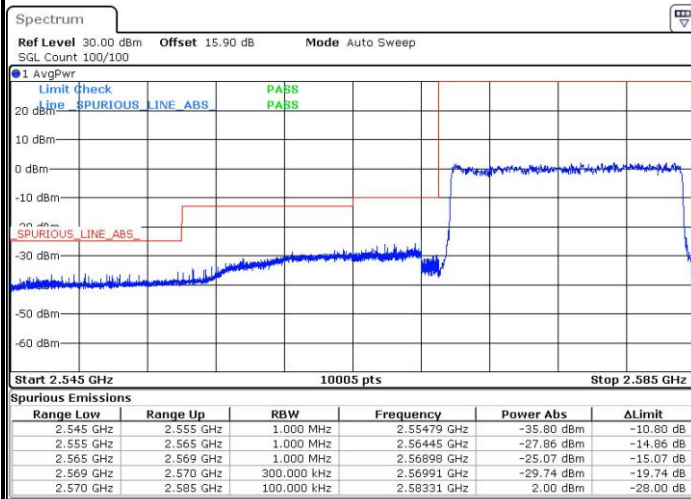
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

