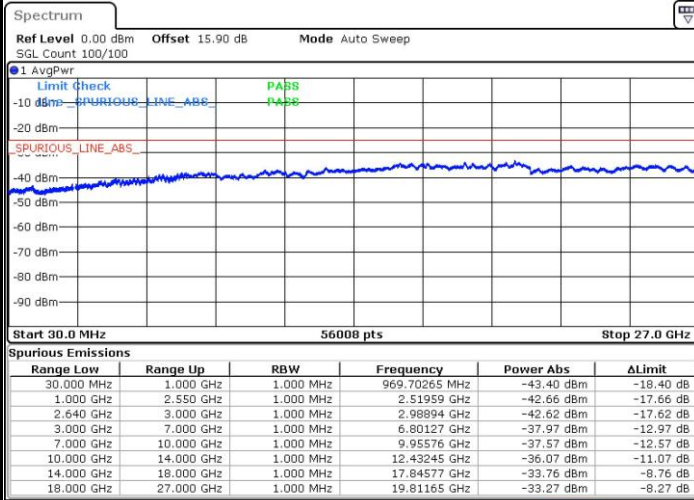




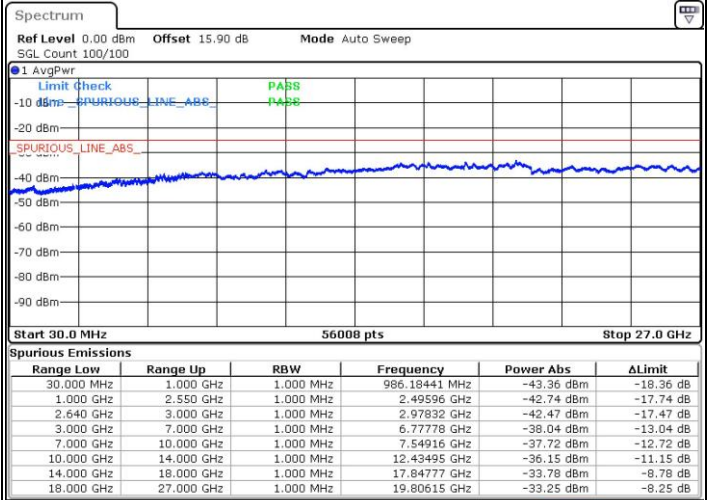
LTE Band 38 / 15MHz

Lowest Channel / 64QAM



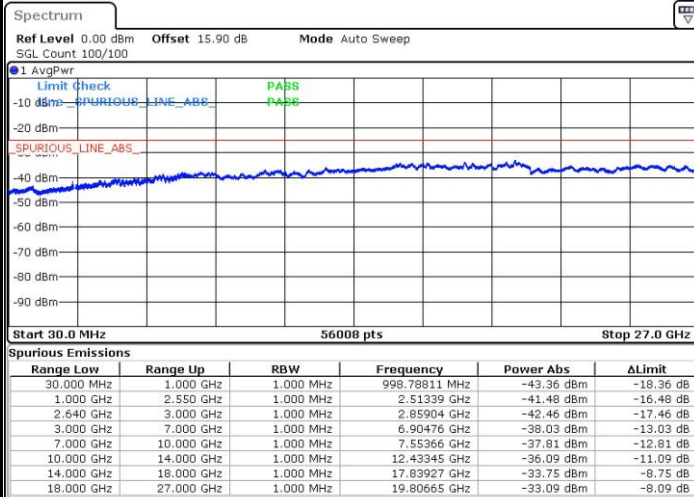
Date: 23 OCT.2018 00:48:17

Middle Channel / 64QAM



Date: 23 OCT.2018 00:49:02

Highest Channel / 64QAM

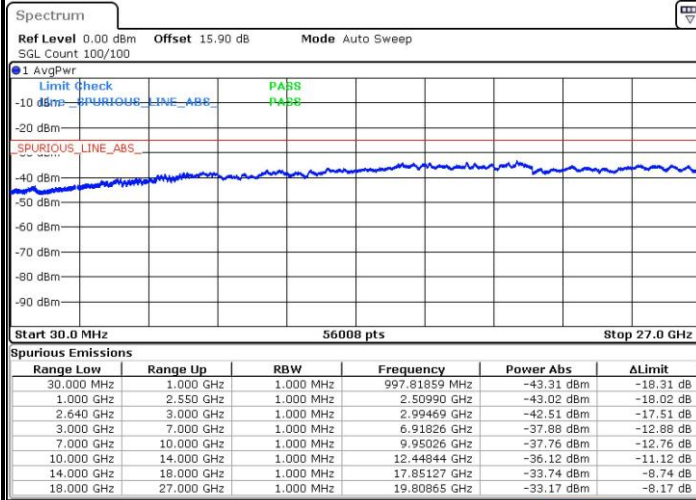


Date: 23 OCT.2018 00:49:47



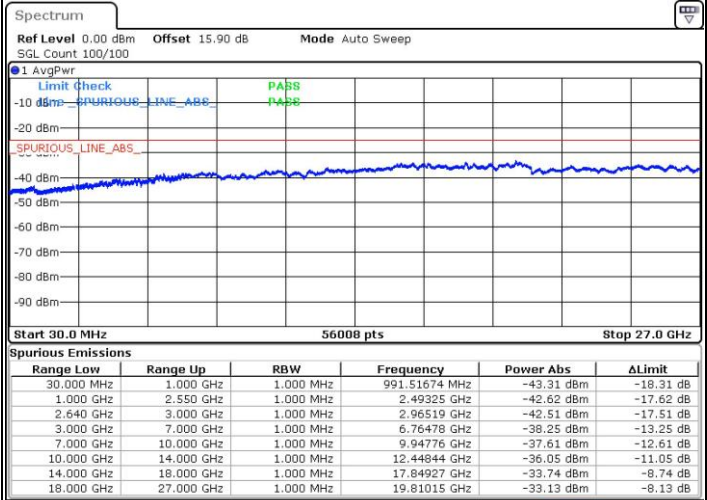
LTE Band 38 / 20MHz

Lowest Channel / 64QAM



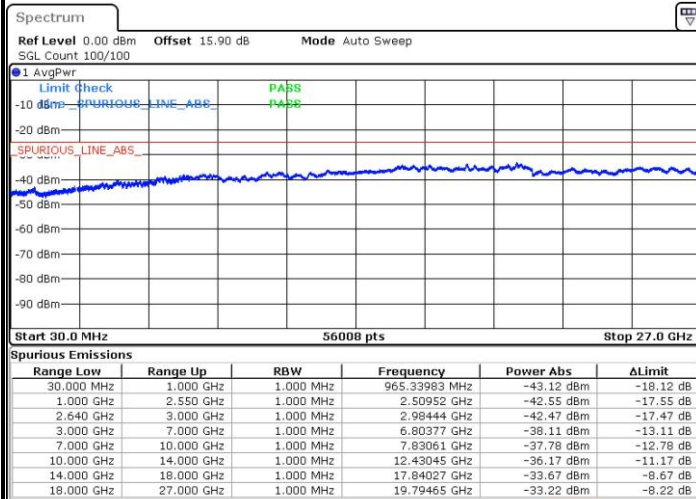
Date: 23 OCT 2018 00:50:33

Middle Channel / 64QAM



Date: 23 OCT 2018 00:51:18

Highest Channel / 64QAM



Date: 23 OCT 2018 00:52:03

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	0.0007	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 41

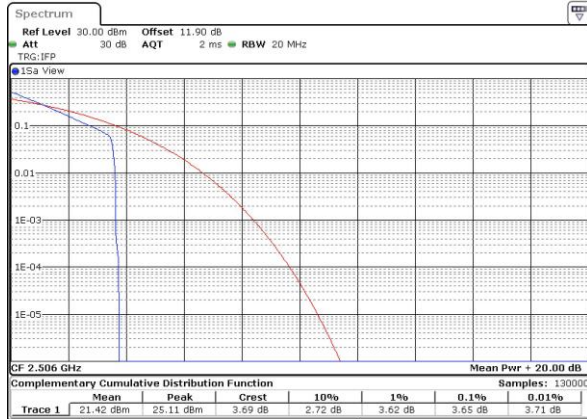
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	4.64	5.42	6.03	PASS
Middle CH	3.57	4.64	5.28	5.94	
Highest CH	3.71	4.61	5.42	6	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.52	6.52	-	-	PASS
Middle CH	6.23	6.43	-	-	
Highest CH	6.55	6.55	-	-	

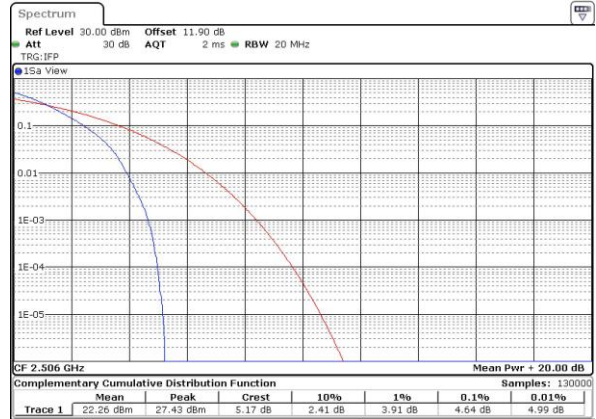


LTE Band 41 / 20MHz / QPSK

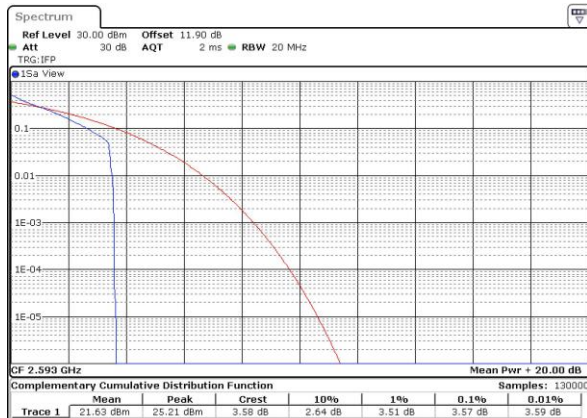
Lowest Channel / 1RB



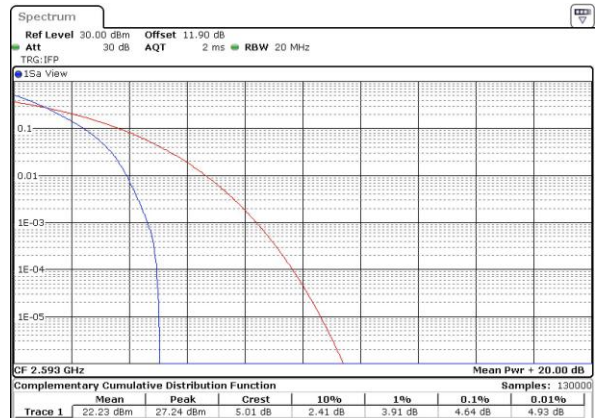
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



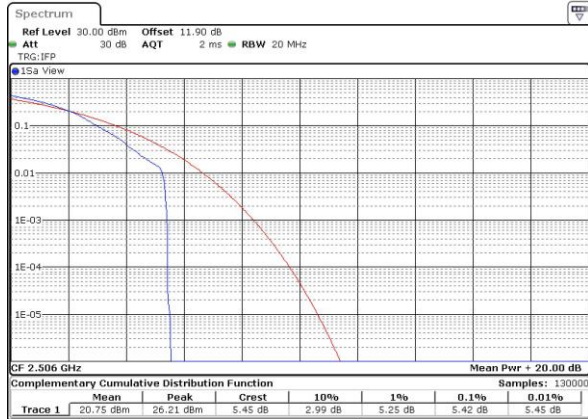
Highest Channel / Full RB



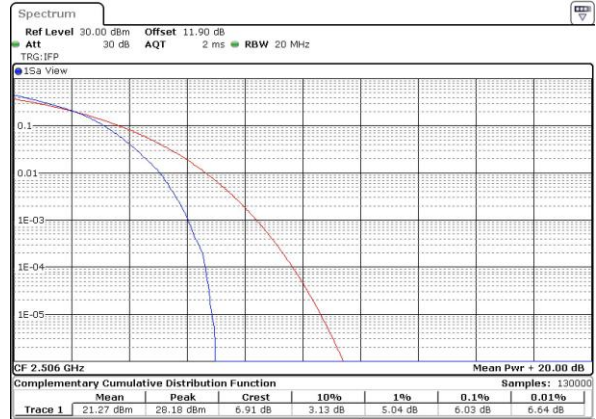


LTE Band 41 / 20MHz / 16QAM

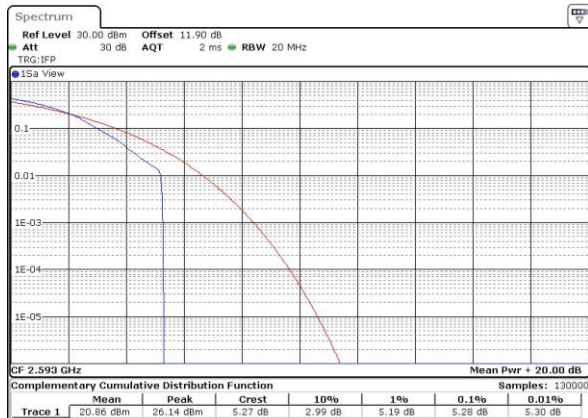
Lowest Channel / 1RB



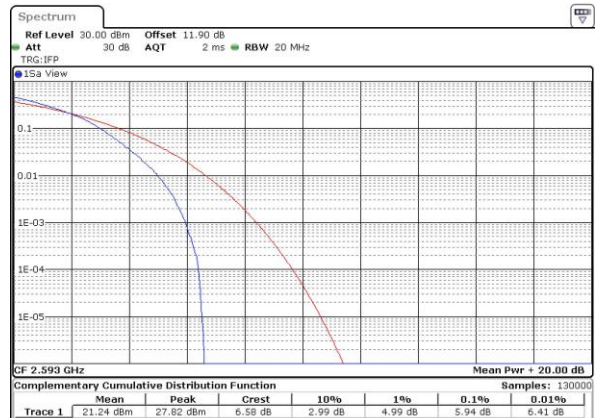
Lowest Channel / Full RB



Middle Channel / 1RB



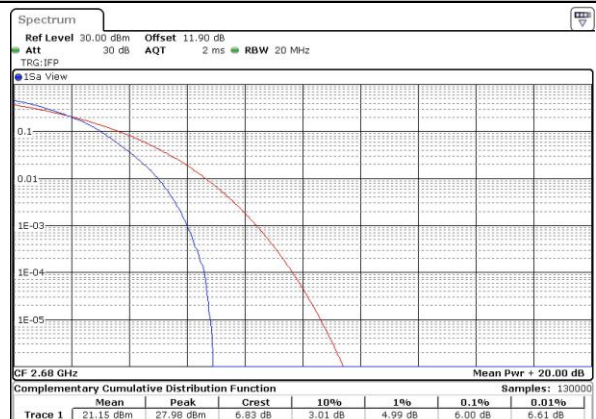
Middle Channel / Full RB



Highest Channel / 1RB



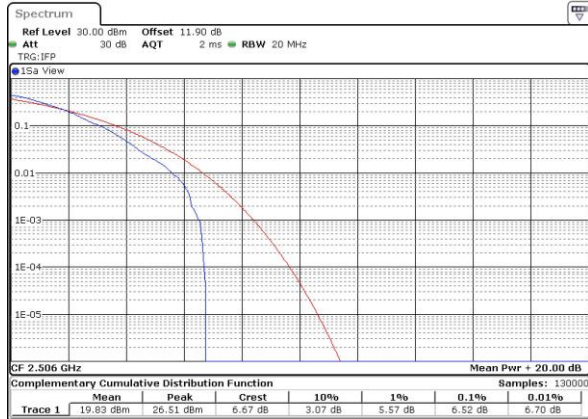
Highest Channel / Full RB



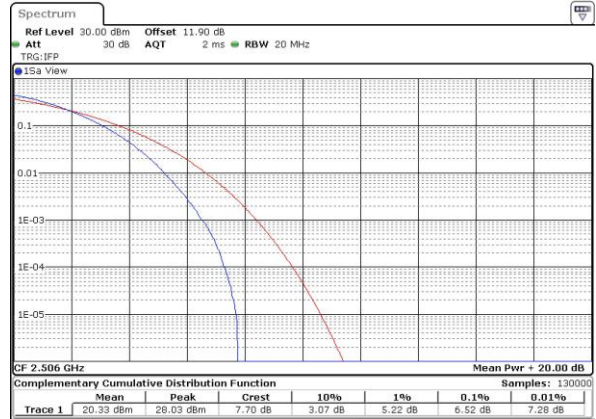


LTE Band 41 / 20MHz / 64QAM

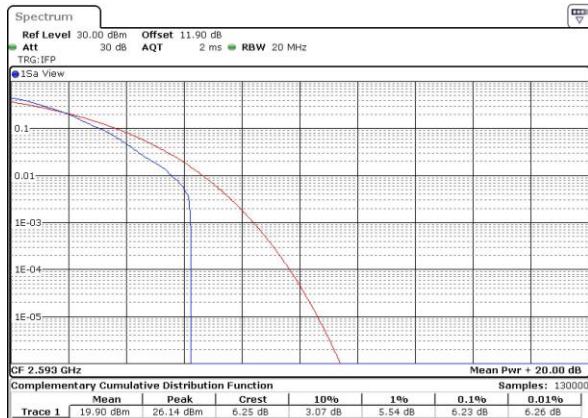
Lowest Channel / 1RB



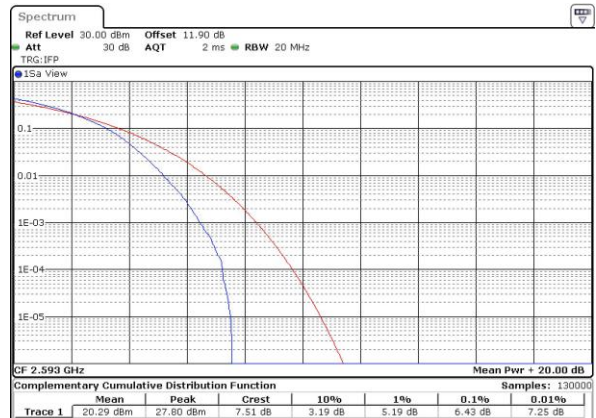
Lowest Channel / Full RB



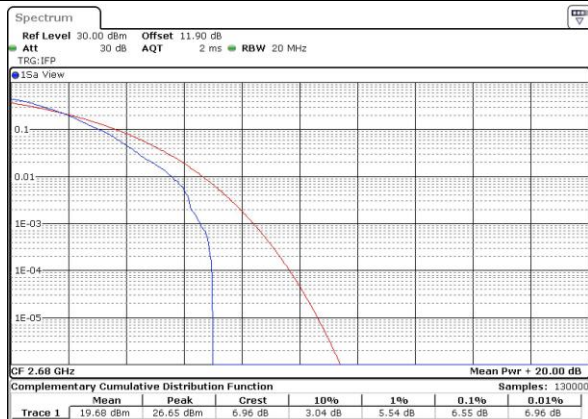
Middle Channel / 1RB



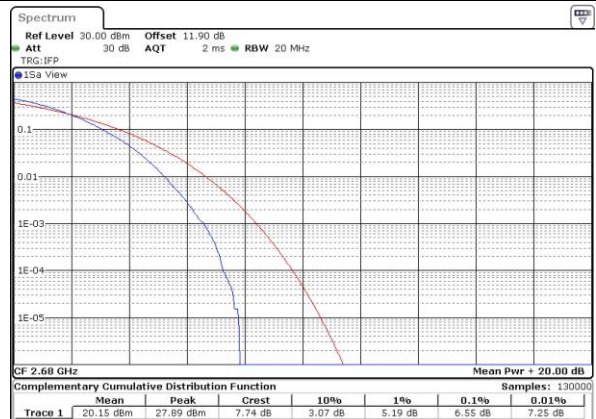
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



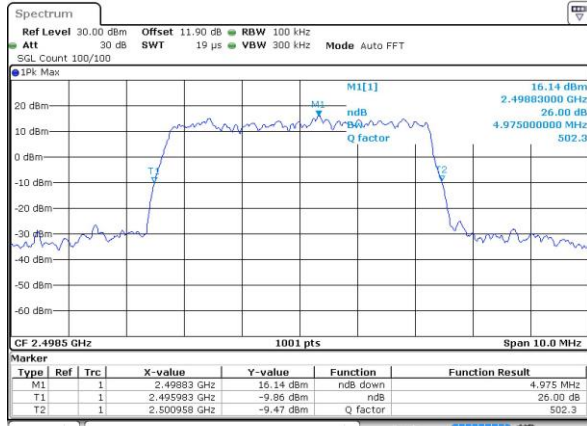
**26dB Bandwidth**

Mode BW Mod.	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.98	4.80	9.71	9.69	14.09	14.15	20.06	20.10
Middle CH	-	-	-	-	4.90	4.90	9.67	9.71	14.18	14.12	20.10	20.02
Highest CH	-	-	-	-	4.92	4.91	9.69	9.69	14.66	14.12	20.14	20.02
Mode BW Mod.	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.82	-	9.89	-	14.15	-	20.02	-
Middle CH	-	-	-	-	4.79	-	9.75	-	14.30	-	20.06	-
Highest CH	-	-	-	-	4.86	-	9.77	-	14.27	-	19.98	-



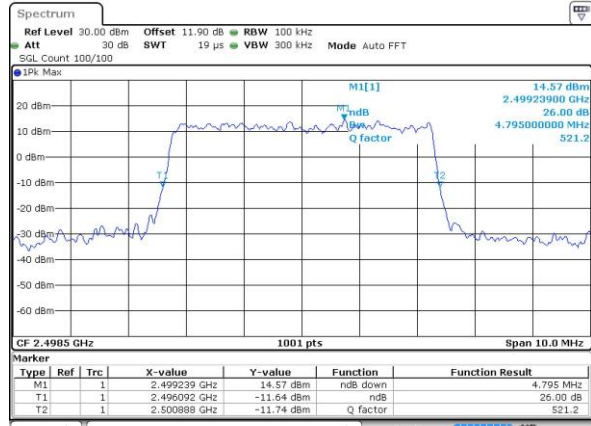
LTE Band 41

Lowest Channel / 5MHz / QPSK



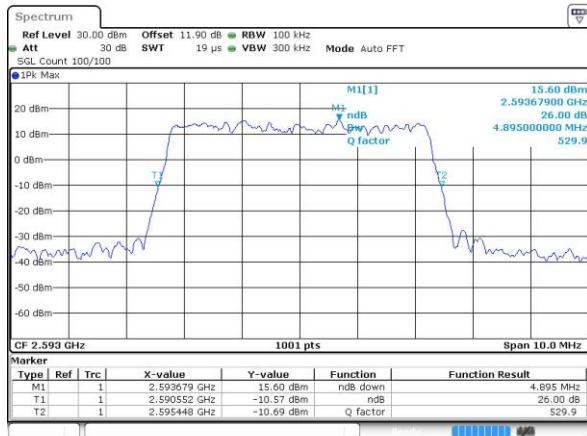
Date: 23.OCT.2018 20:26:15

Lowest Channel / 5MHz / 16QAM



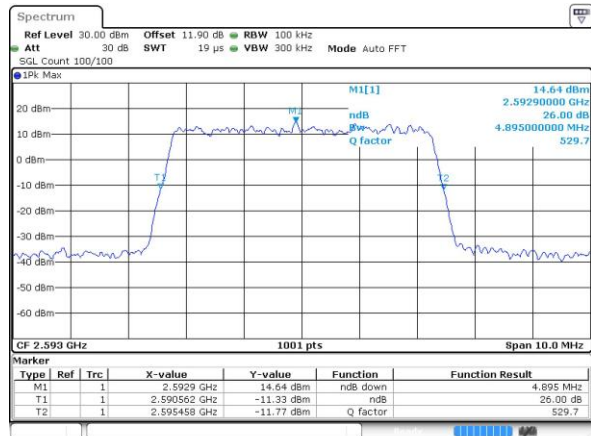
Date: 23.OCT.2018 20:26:26

Middle Channel / 5MHz / QPSK



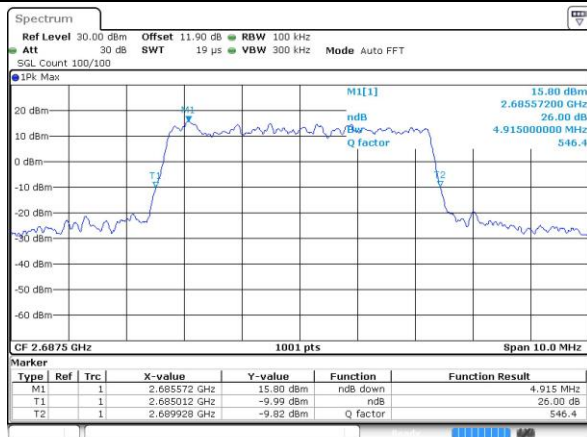
Date: 23.OCT.2018 20:27:00

Middle Channel / 5MHz / 16QAM



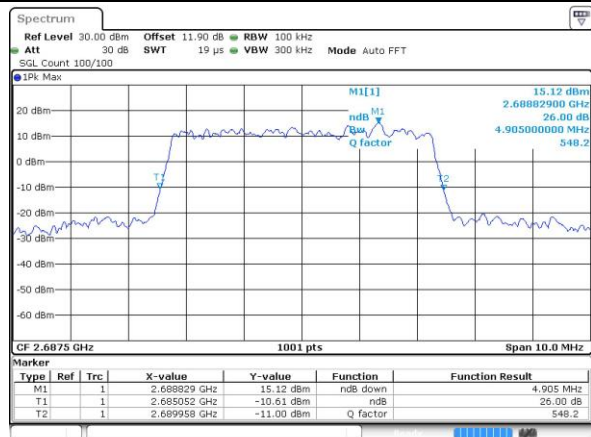
Date: 23.OCT.2018 20:27:12

Highest Channel / 5MHz / QPSK



Date: 23.OCT.2018 20:27:46

Highest Channel / 5MHz / 16QAM

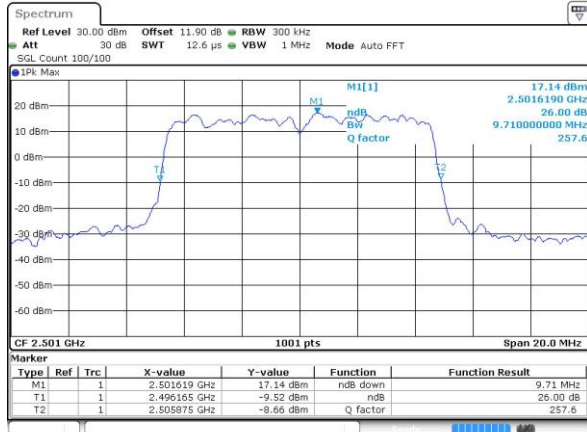


Date: 23.OCT.2018 20:27:58

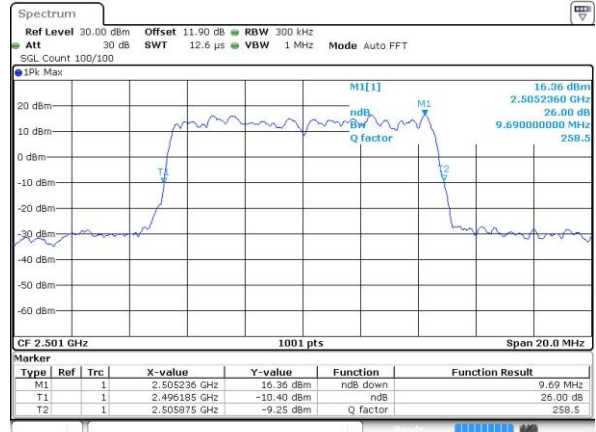


LTE Band 41

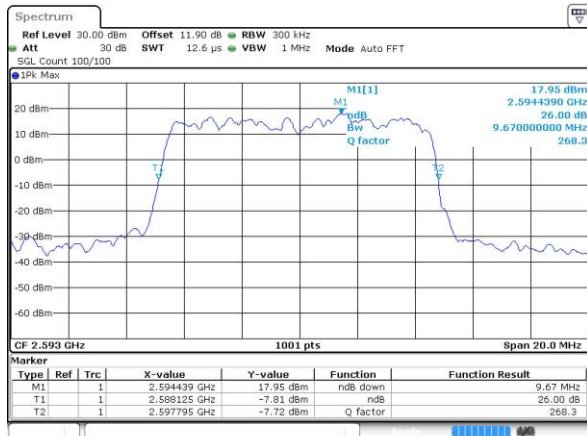
Lowest Channel / 10MHz / QPSK



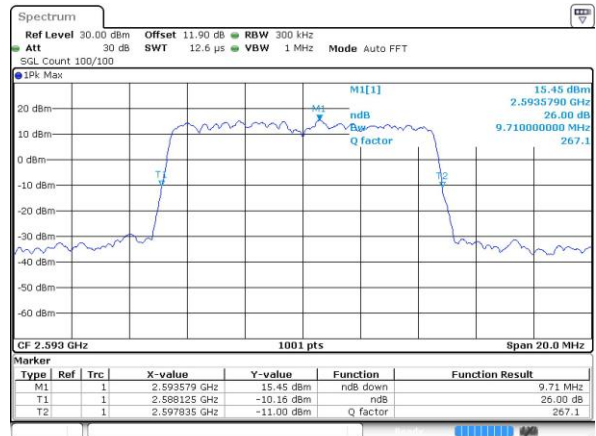
Lowest Channel / 10MHz / 16QAM



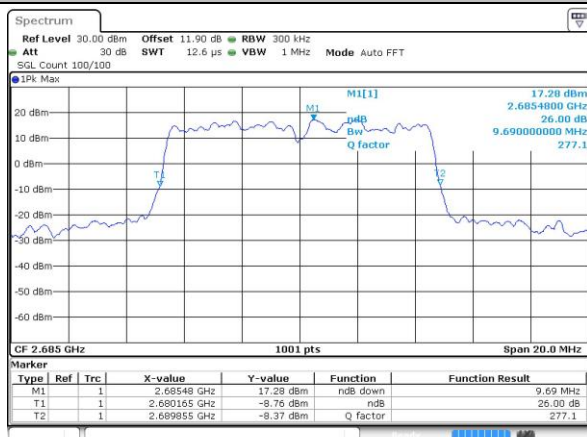
Middle Channel / 10MHz / QPSK



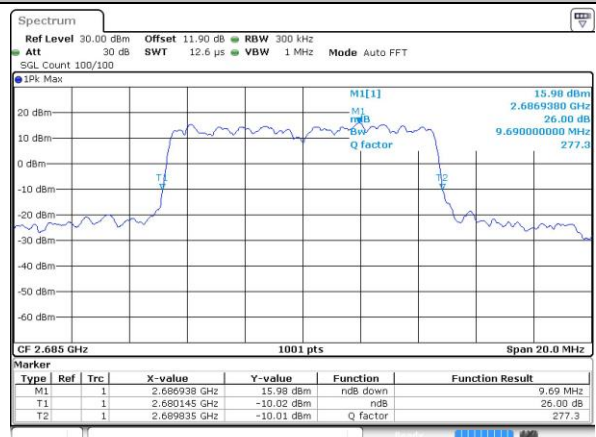
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



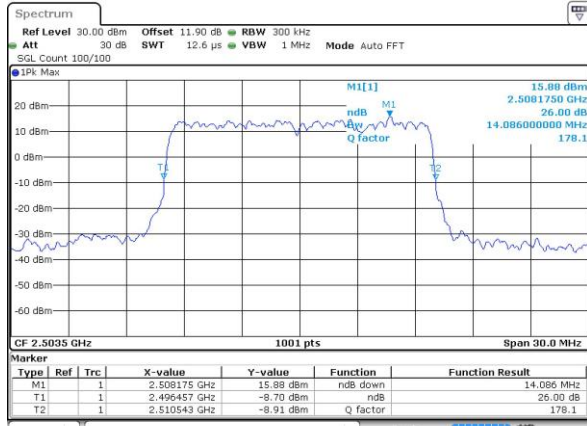
Highest Channel / 10MHz / 16QAM





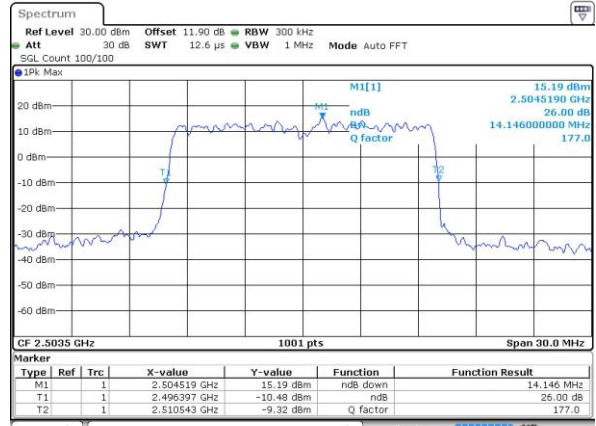
LTE Band 41

Lowest Channel / 15MHz / QPSK



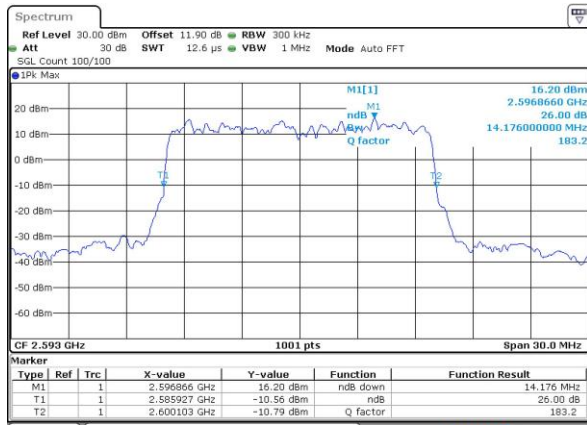
Date: 23 OCT 2018 20:30:49

Lowest Channel / 15MHz / 16QAM



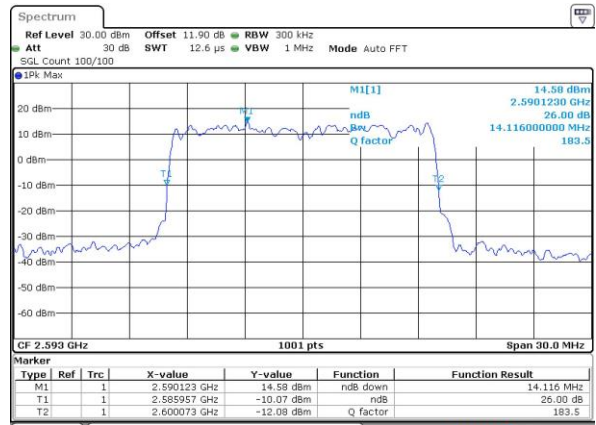
Date: 23 OCT 2018 20:31:01

Middle Channel / 15MHz / QPSK



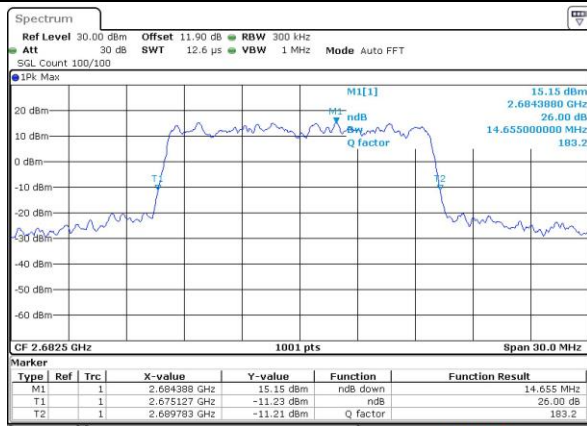
Date: 23 OCT 2018 20:31:35

Middle Channel / 15MHz / 16QAM



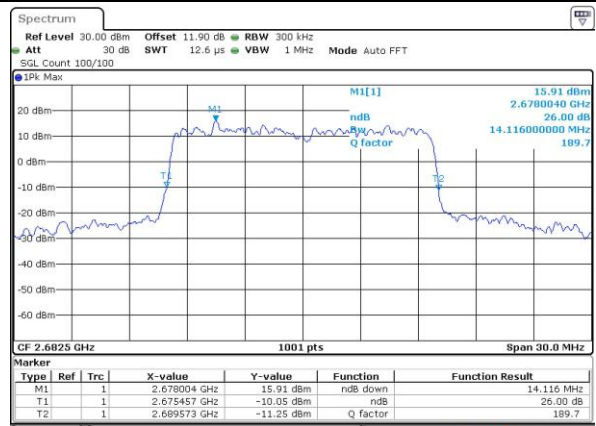
Date: 23 OCT 2018 20:31:46

Highest Channel / 15MHz / QPSK



Date: 23 OCT 2018 20:32:21

Highest Channel / 15MHz / 16QAM

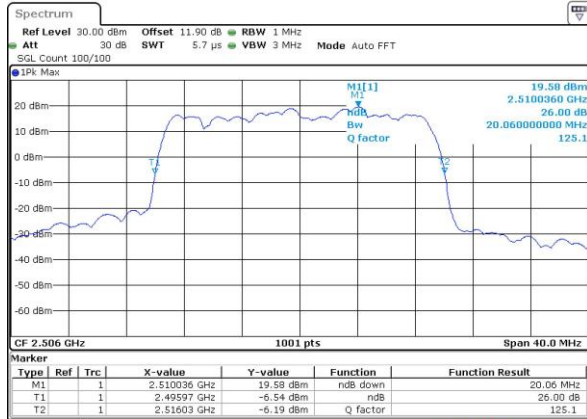


Date: 23 OCT 2018 20:32:32



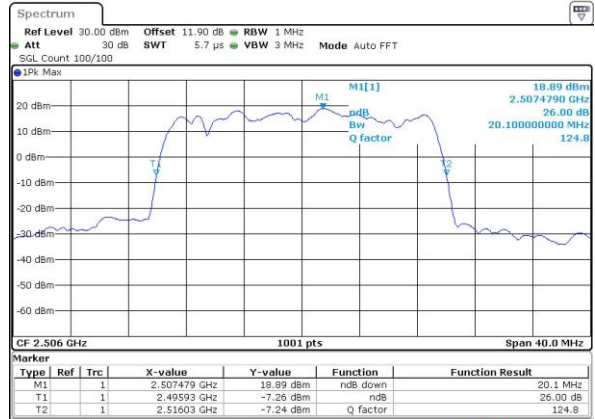
LTE Band 41

Lowest Channel / 20MHz / QPSK



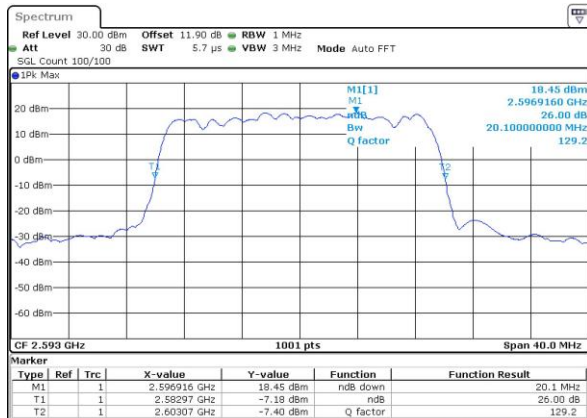
Date: 23 OCT 2018 20:33:06

Lowest Channel / 20MHz / 16QAM



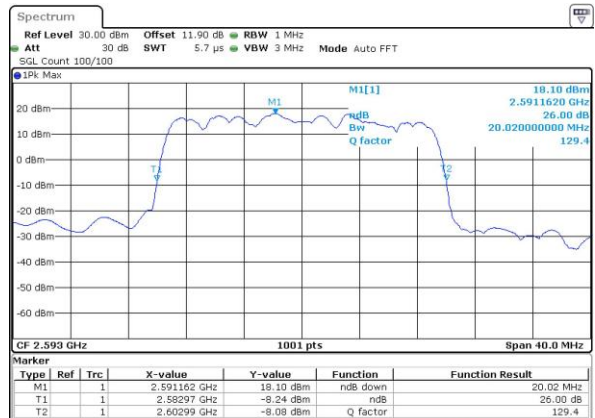
Date: 23 OCT 2018 20:33:18

Middle Channel / 20MHz / QPSK



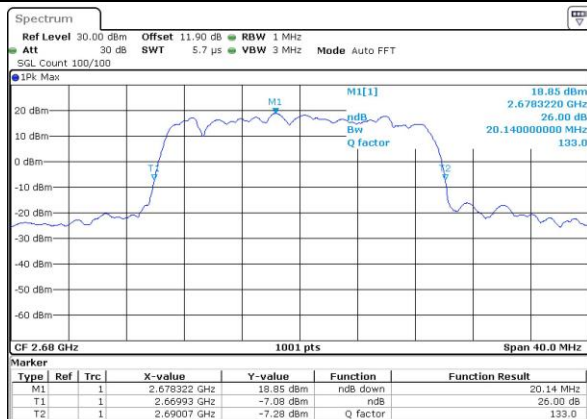
Date: 23 OCT 2018 20:33:52

Middle Channel / 20MHz / 16QAM



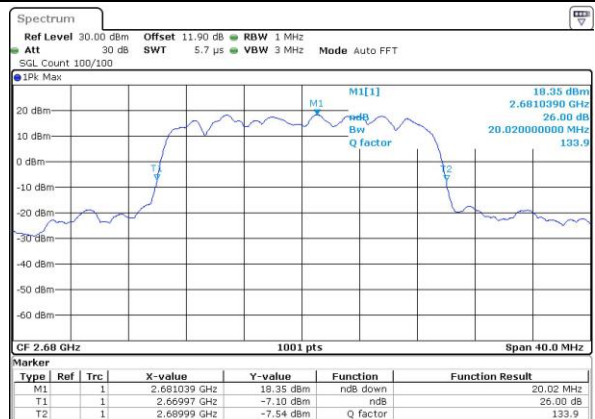
Date: 23 OCT 2018 20:34:03

Highest Channel / 20MHz / QPSK



Date: 23 OCT 2018 20:34:38

Highest Channel / 20MHz / 16QAM

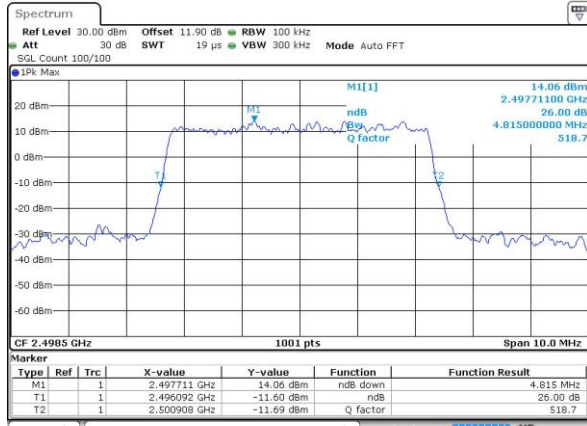


Date: 23 OCT 2018 20:34:49



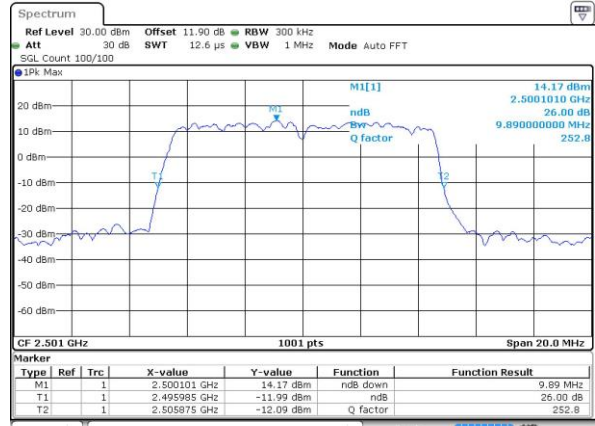
LTE Band 41

Lowest Channel / 5MHz / QPSK



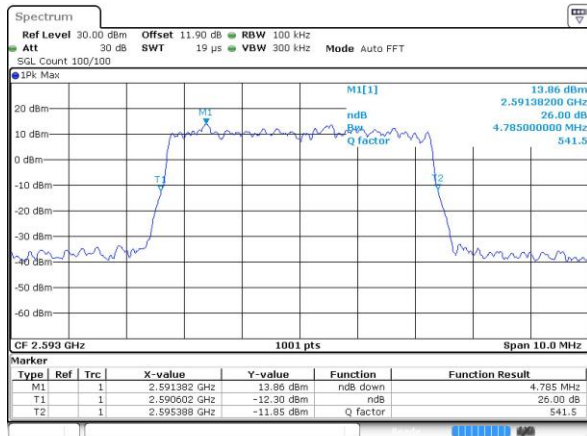
Date: 23 OCT 2018 20:35:12

Lowest Channel / 10MHz / 16QAM



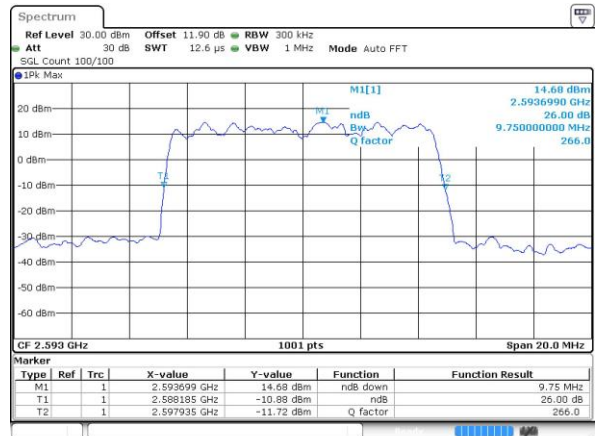
Date: 23 OCT 2018 20:36:20

Middle Channel / 5MHz / QPSK



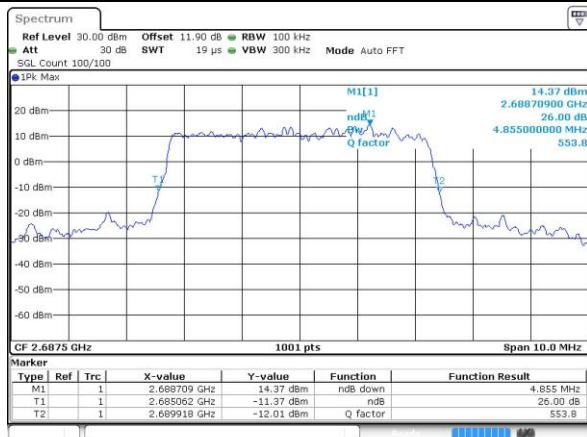
Date: 23 OCT 2018 20:35:35

Middle Channel / 10MHz / 16QAM



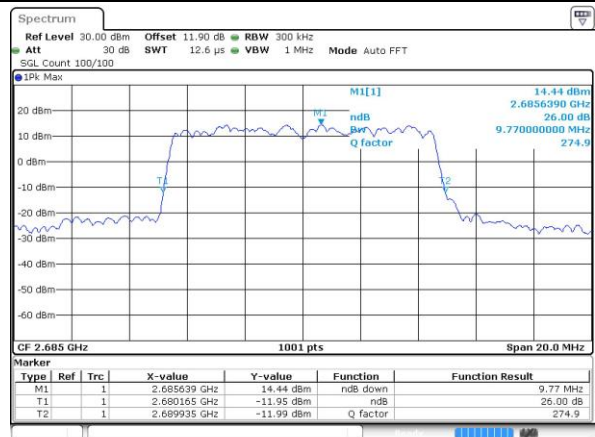
Date: 23 OCT 2018 20:36:43

Highest Channel / 5MHz / QPSK



Date: 23 OCT 2018 20:35:58

Highest Channel / 10MHz / 16QAM

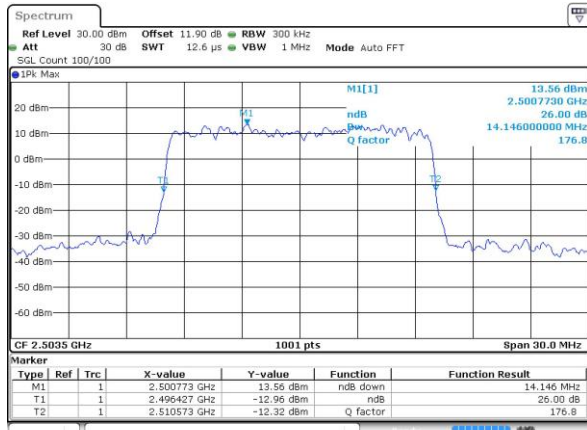


Date: 23 OCT 2018 20:37:06



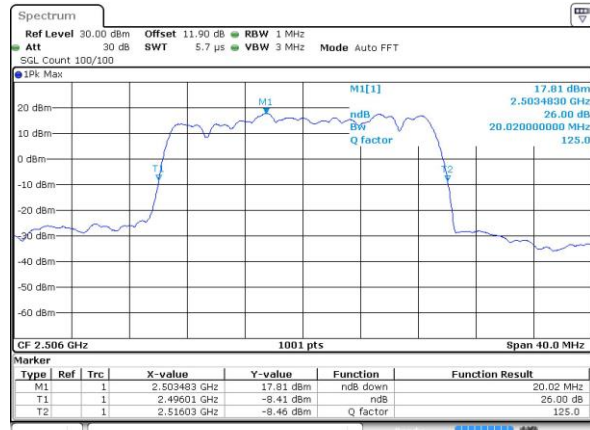
LTE Band 41

Lowest Channel / 15MHz / QPSK



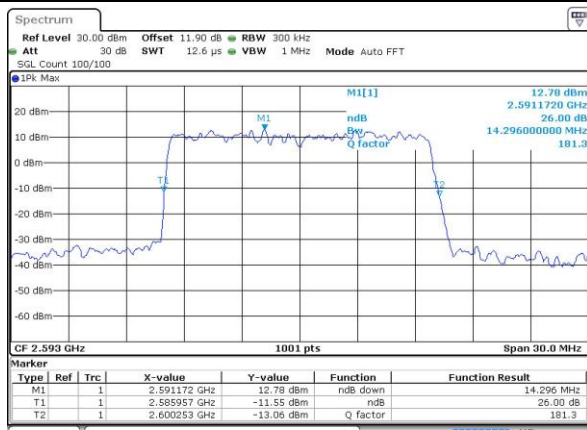
Date: 23 OCT 2018 20:37:29

Lowest Channel / 20MHz / 16QAM



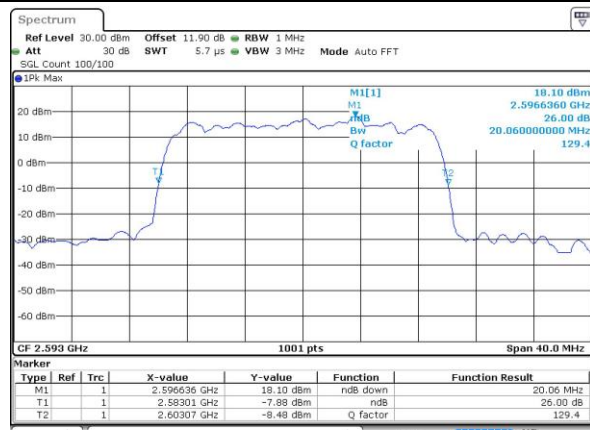
Date: 23 OCT 2018 20:38:38

Middle Channel / 15MHz / QPSK



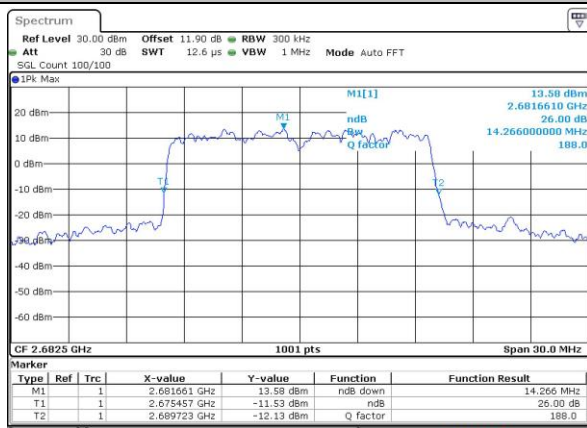
Date: 23 OCT 2018 20:37:52

Middle Channel / 20MHz / 16QAM



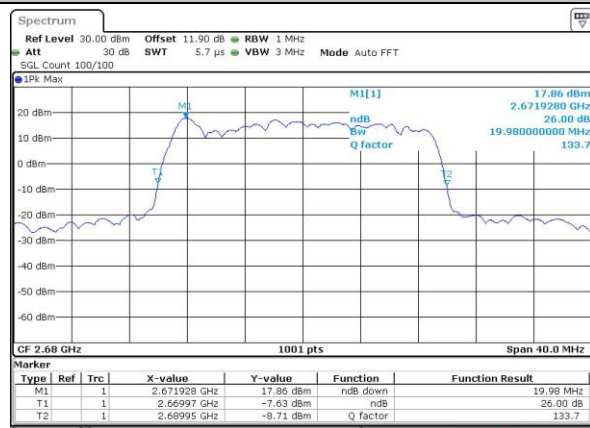
Date: 23 OCT 2018 20:39:01

Highest Channel / 15MHz / QPSK



Date: 23 OCT 2018 20:38:15

Highest Channel / 20MHz / 16QAM



Date: 23 OCT 2018 20:39:23

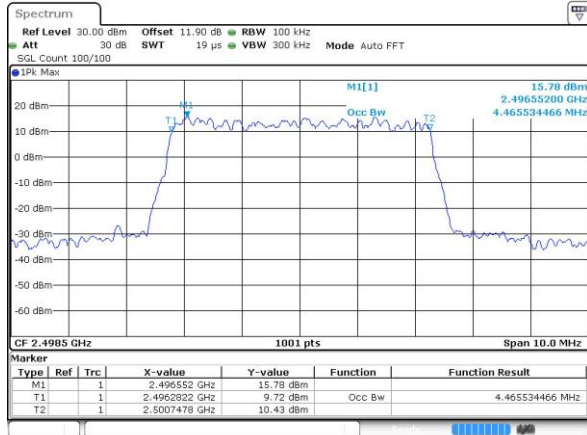
**Occupied Bandwidth**

Mode BW Mod.	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.47	4.46	8.97	8.99	13.37	13.43	18.38	18.46
Middle CH	-	-	-	-	4.48	4.51	8.99	9.01	13.46	13.49	18.14	18.26
Highest CH	-	-	-	-	4.52	4.5	9.05	9.03	13.37	13.46	18.26	18.22
Mode BW Mod.	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	-	9.05	-	13.49	-	18.38	-
Middle CH	-	-	-	-	4.51	-	9.05	-	13.43	-	18.22	-
Highest CH	-	-	-	-	4.50	-	9.03	-	13.46	-	18.34	-



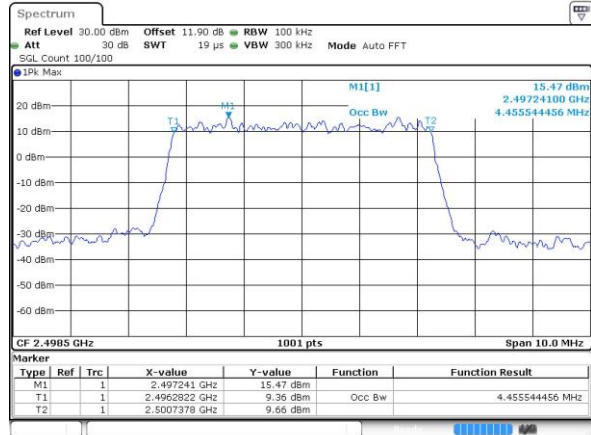
LTE Band 41

Lowest Channel / 5MHz / QPSK



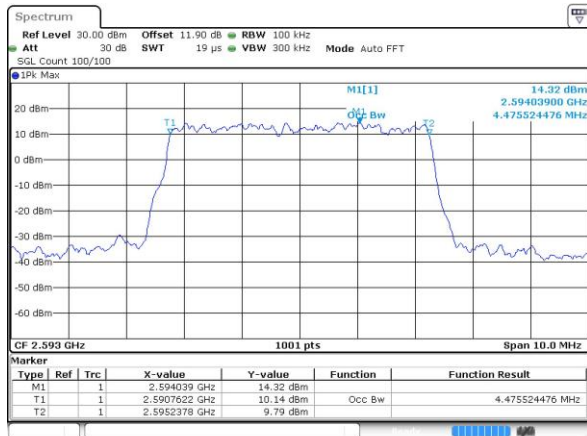
Date: 23 OCT 2018 20:25:52

Lowest Channel / 5MHz / 16QAM



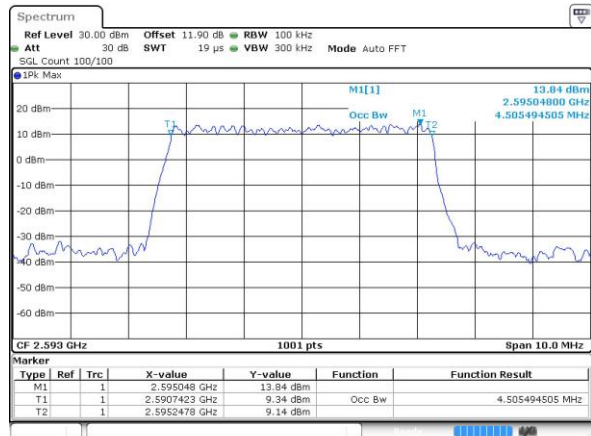
Date: 23 OCT 2018 20:26:03

Middle Channel / 5MHz / QPSK



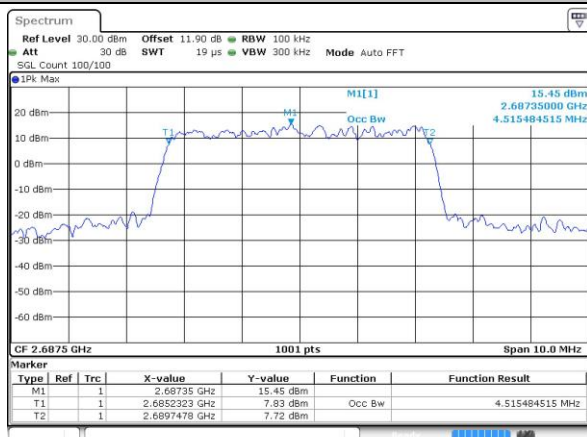
Date: 23 OCT 2018 20:26:38

Middle Channel / 5MHz / 16QAM



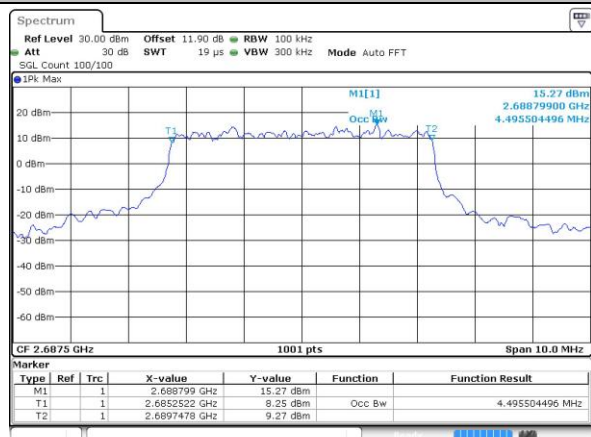
Date: 23 OCT 2018 20:26:49

Highest Channel / 5MHz / QPSK



Date: 23 OCT 2018 20:27:23

Highest Channel / 5MHz / 16QAM

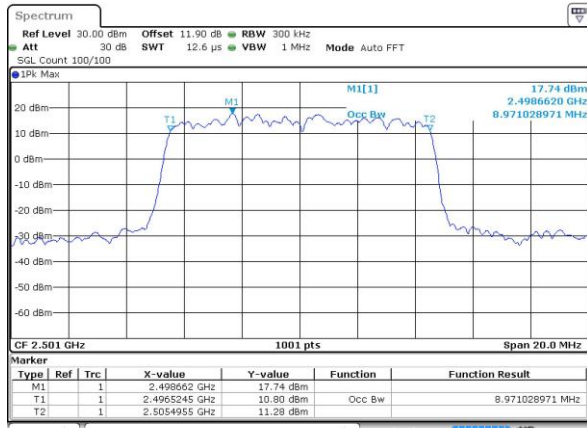


Date: 23 OCT 2018 20:27:35



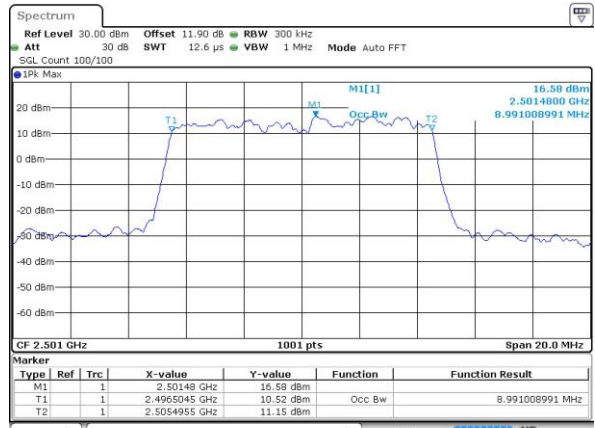
LTE Band 41

Lowest Channel / 10MHz / QPSK



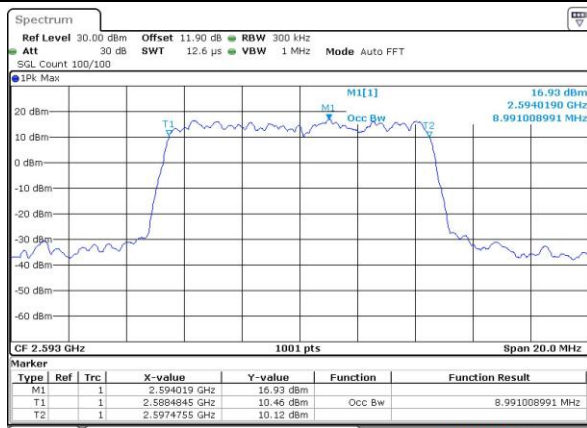
Date: 23 OCT 2018 20:28:09

Lowest Channel / 10MHz / 16QAM



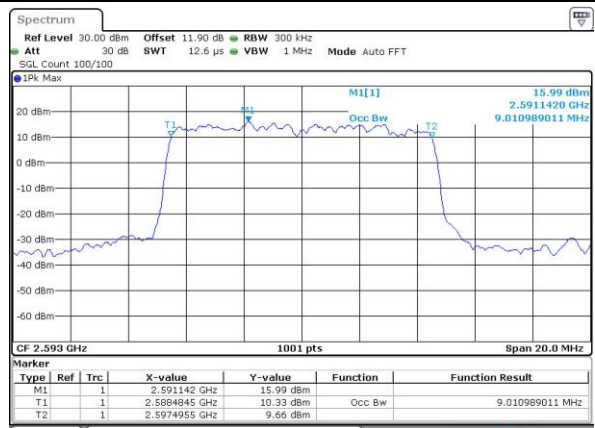
Date: 23 OCT 2018 20:28:21

Middle Channel / 10MHz / QPSK



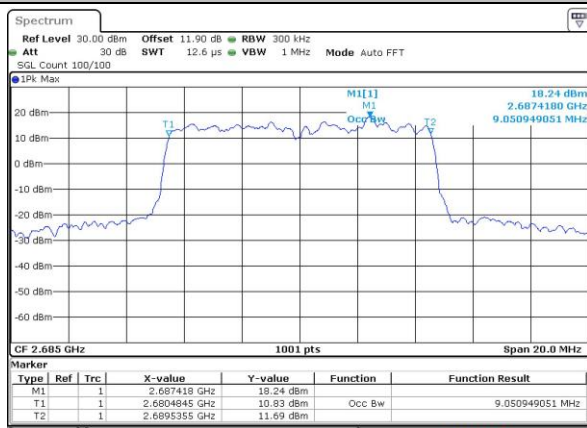
Date: 23 OCT 2018 20:28:55

Middle Channel / 10MHz / 16QAM



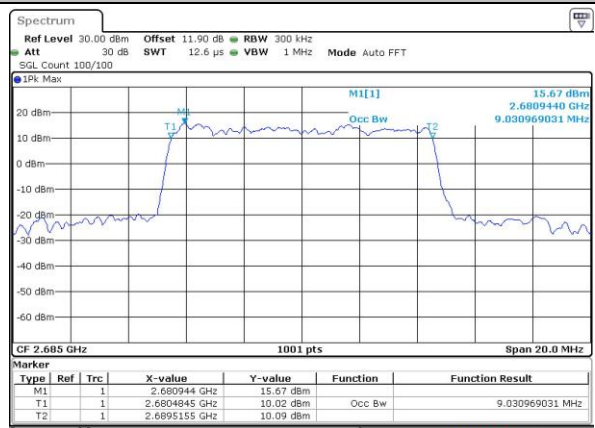
Date: 23 OCT 2018 20:29:06

Highest Channel / 10MHz / QPSK



Date: 23 OCT 2018 20:29:41

Highest Channel / 10MHz / 16QAM



Date: 23 OCT 2018 20:29:52

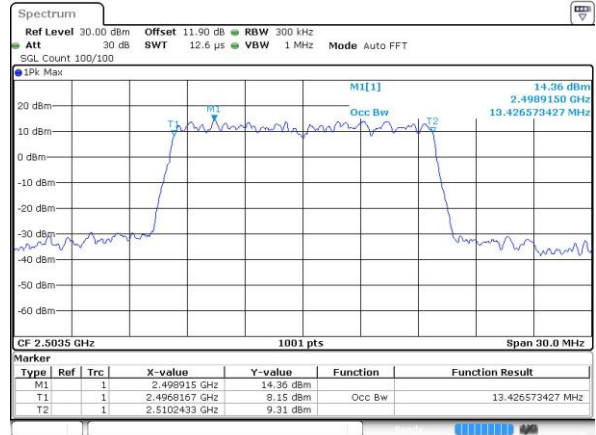


LTE Band 41

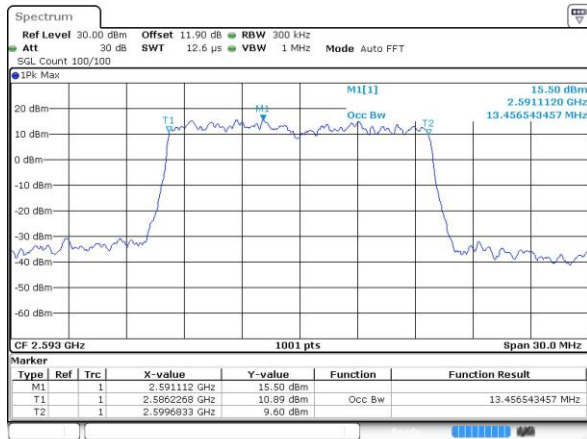
Lowest Channel / 15MHz / QPSK



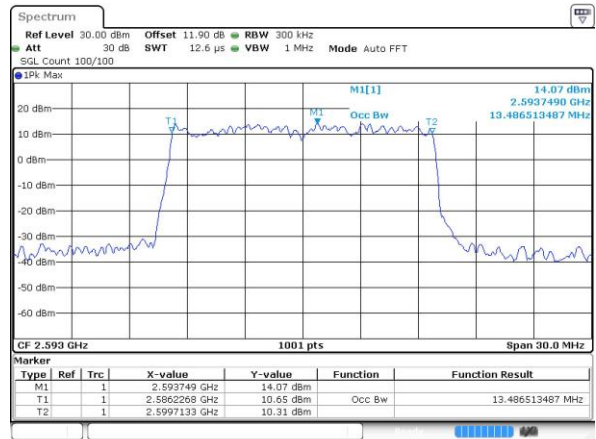
Lowest Channel / 15MHz / 16QAM



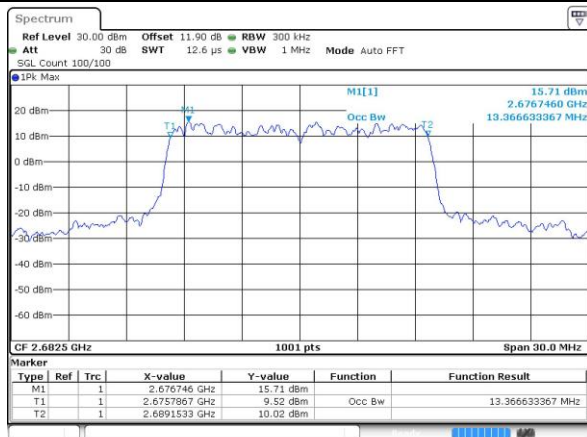
Middle Channel / 15MHz / QPSK



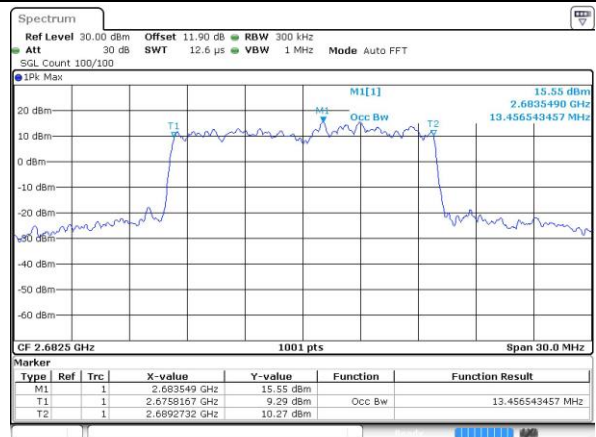
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



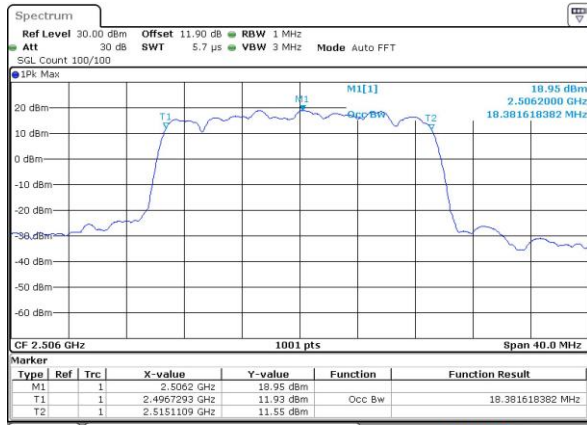
Highest Channel / 15MHz / 16QAM





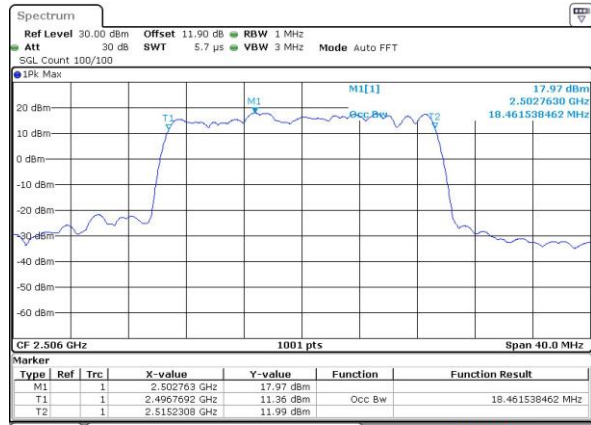
LTE Band 41

Lowest Channel / 20MHz / QPSK



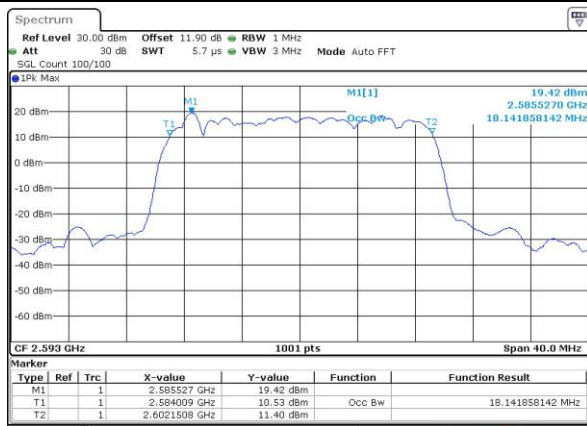
Date: 23 OCT 2018 20:32:43

Lowest Channel / 20MHz / 16QAM



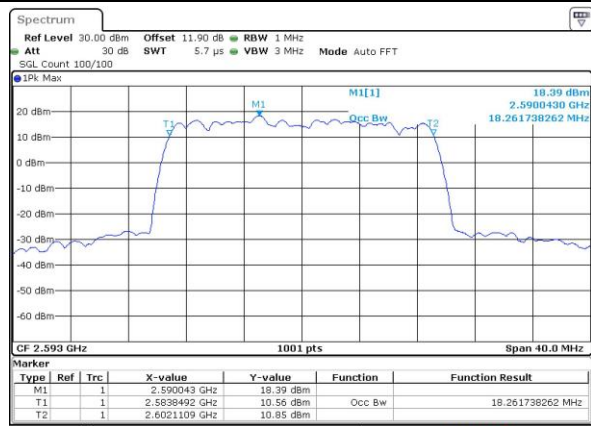
Date: 23 OCT 2018 20:32:55

Middle Channel / 20MHz / QPSK



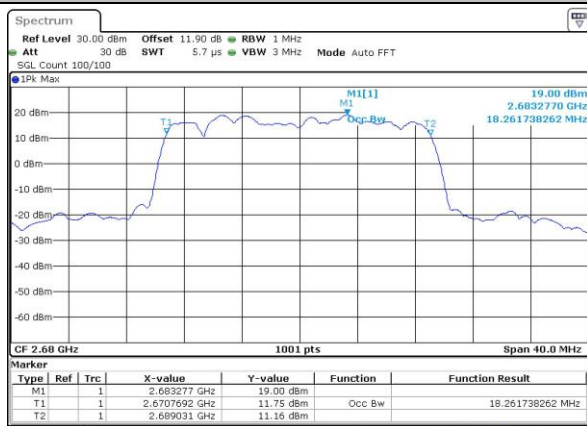
Date: 23 OCT 2018 20:33:29

Middle Channel / 20MHz / 16QAM



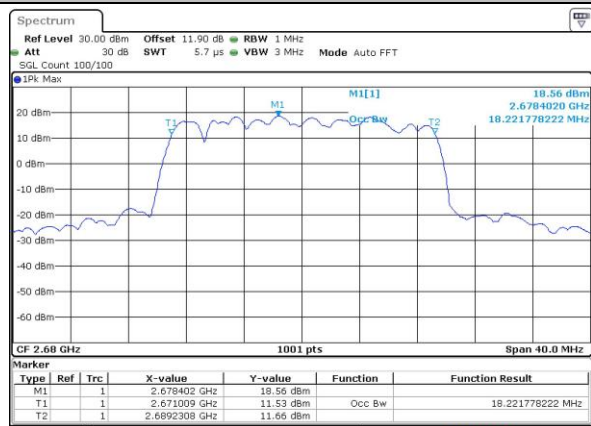
Date: 23 OCT 2018 20:33:41

Highest Channel / 20MHz / QPSK



Date: 23 OCT 2018 20:34:15

Highest Channel / 20MHz / 16QAM

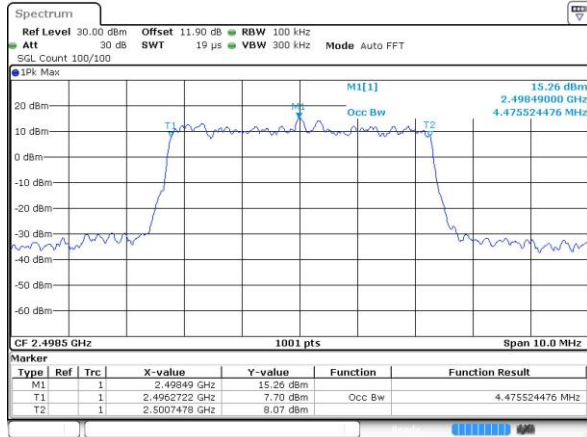


Date: 23 OCT 2018 20:34:26

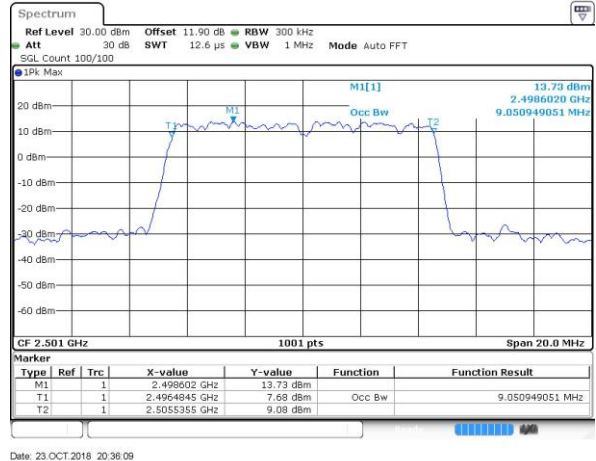


LTE Band 41

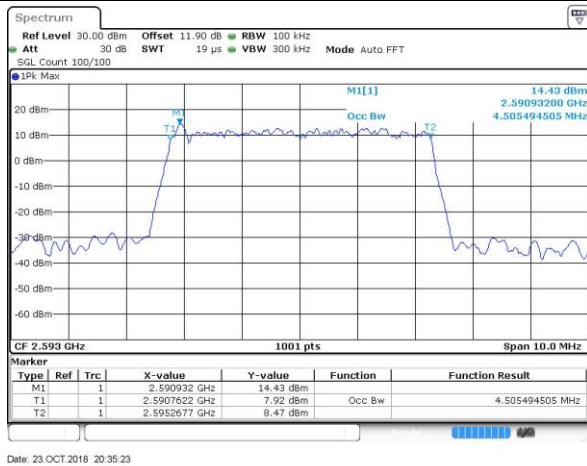
Lowest Channel / 5MHz / 64QAM



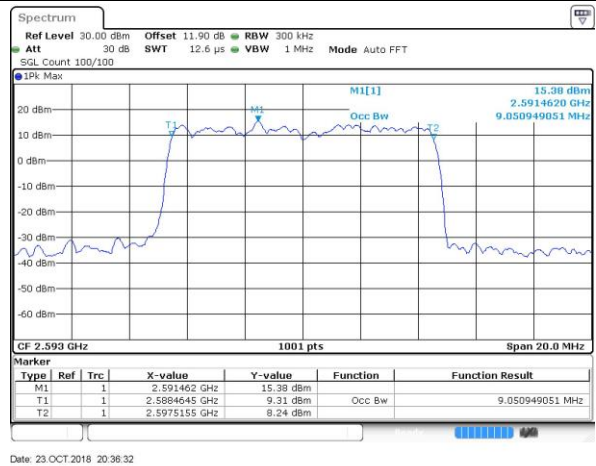
Lowest Channel / 10MHz / 64QAM



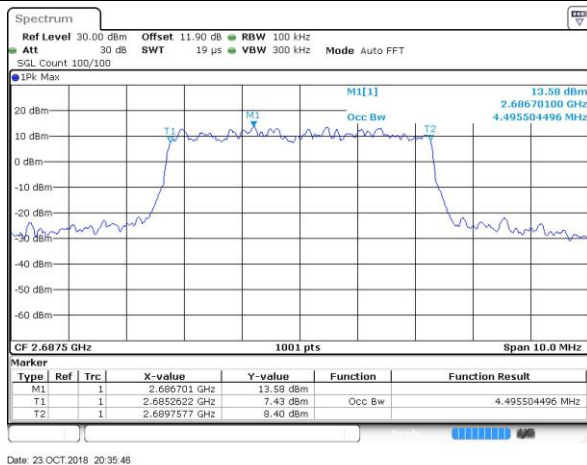
Middle Channel / 5MHz / 64QAM



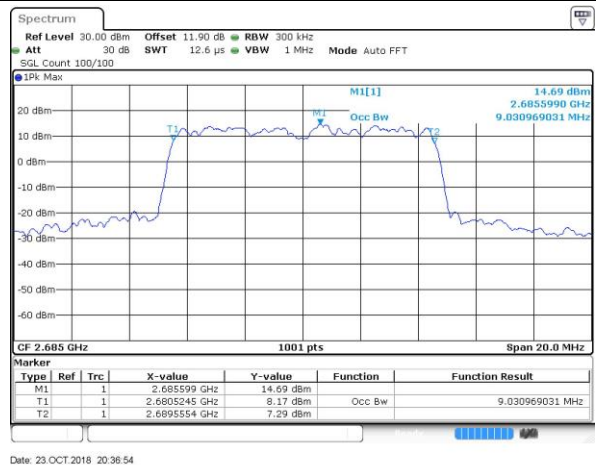
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



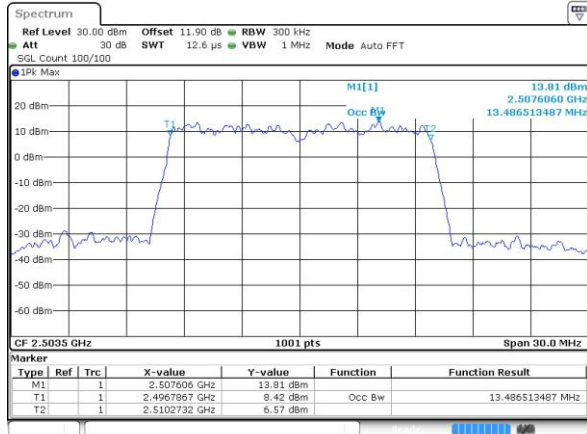
Highest Channel / 10MHz / 64QAM



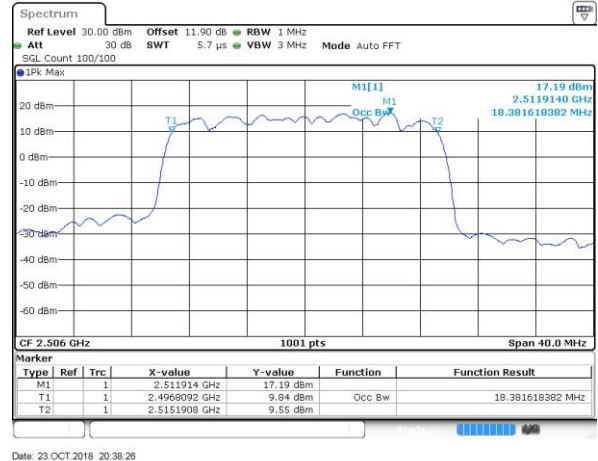


LTE Band 41

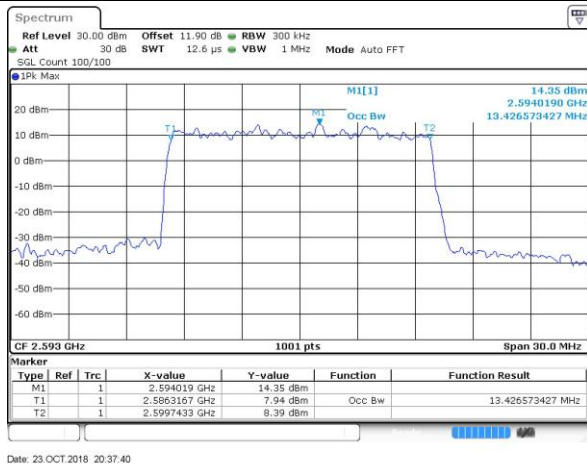
Lowest Channel / 15MHz / 64QAM



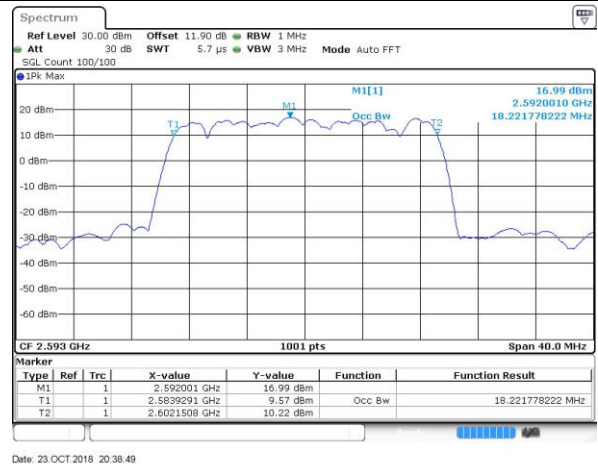
Lowest Channel / 20MHz / 64QAM



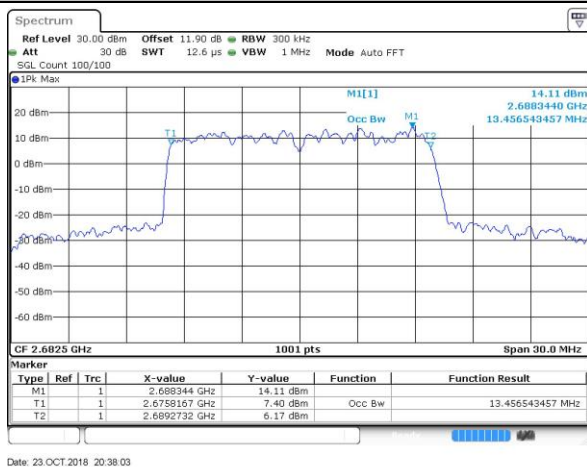
Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

