

Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0056	
-20	Normal Voltage	0.0088	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0065	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0048	

Note:

1. Normal Voltage =120 V. ; Battery End Point (BEP) =100 V. ; Maximum Voltage =240 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

<For 4x4 Tx Low Band Chain 4>

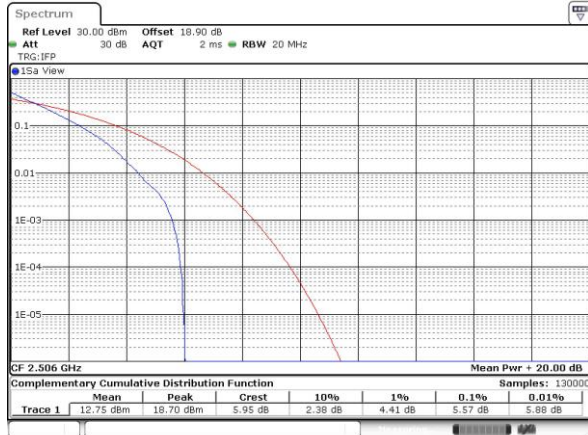
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.57	4.84	7.33	5.91	PASS
Middle CH	5.80	5.42	7.39	6.38	
Highest CH	6.32	5.94	7.19	6.67	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.14	5.86	-	-	PASS
Middle CH	7.36	6.29	-	-	
Highest CH	6.41	5.91	-	-	

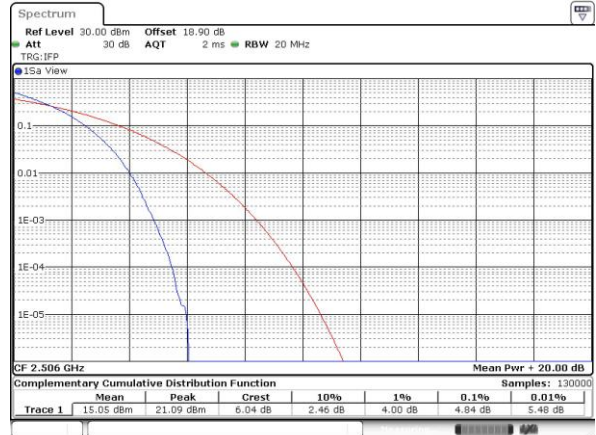


LTE Band 41 / 20MHz / QPSK

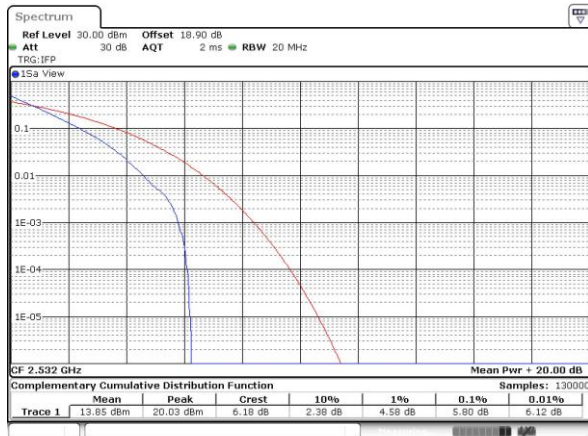
Lowest Channel / 1RB



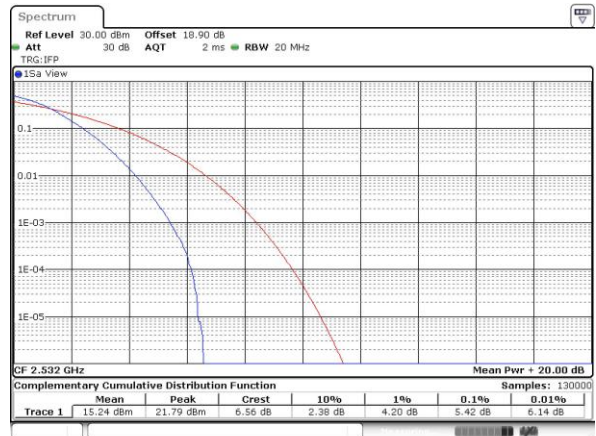
Lowest Channel / Full RB



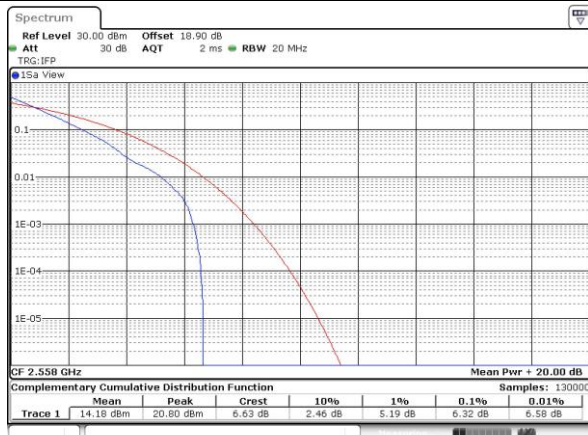
Middle Channel / 1RB



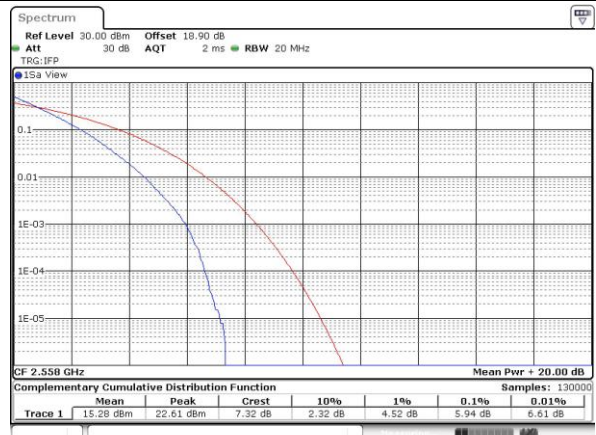
Middle Channel / Full RB



Highest Channel / 1RB



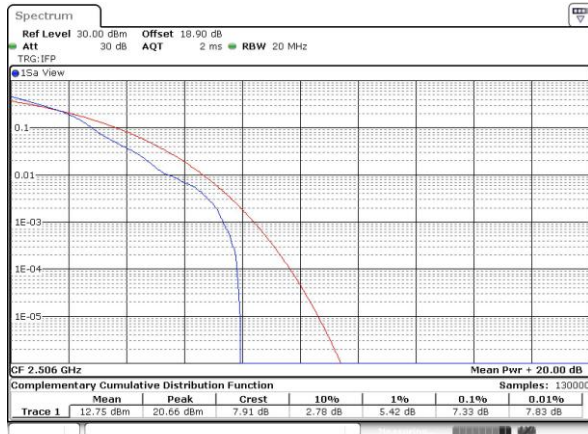
Highest Channel / Full RB



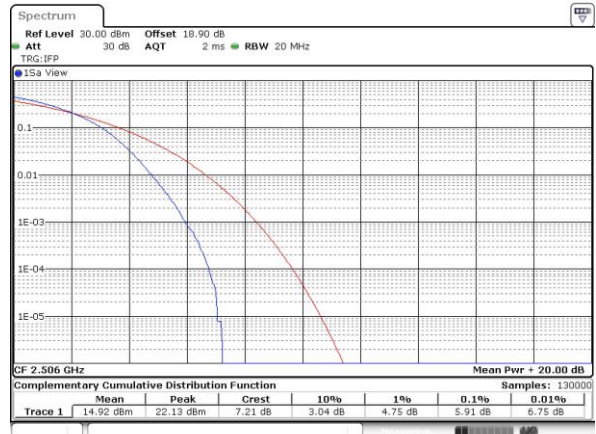


LTE Band 41 / 20MHz / 16QAM

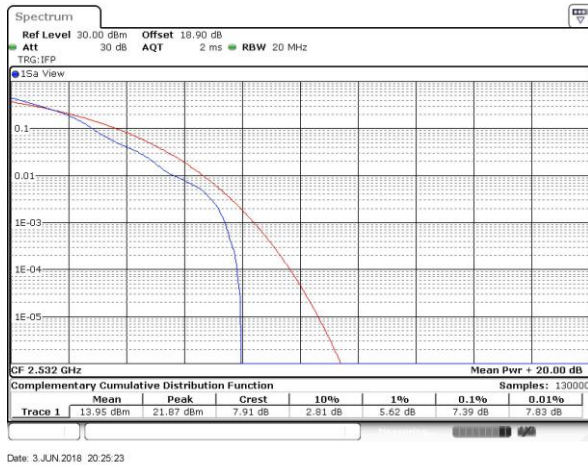
Lowest Channel / 1RB



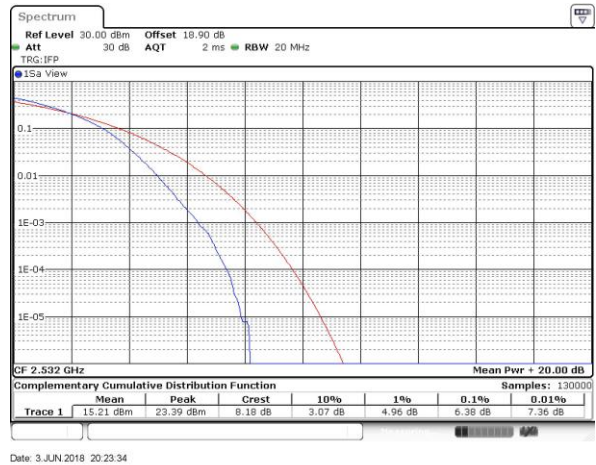
Lowest Channel / Full RB



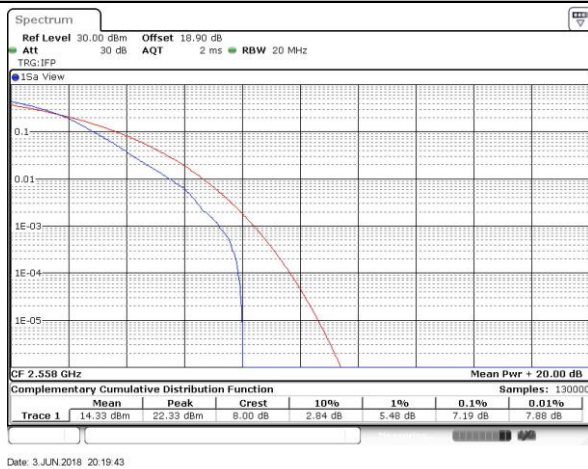
Middle Channel / 1RB



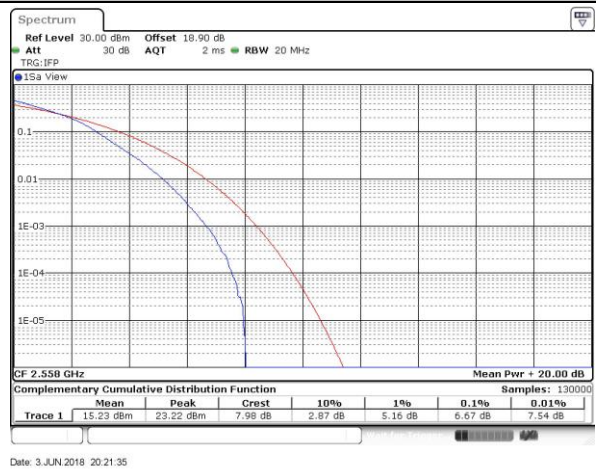
Middle Channel / Full RB



Highest Channel / 1RB



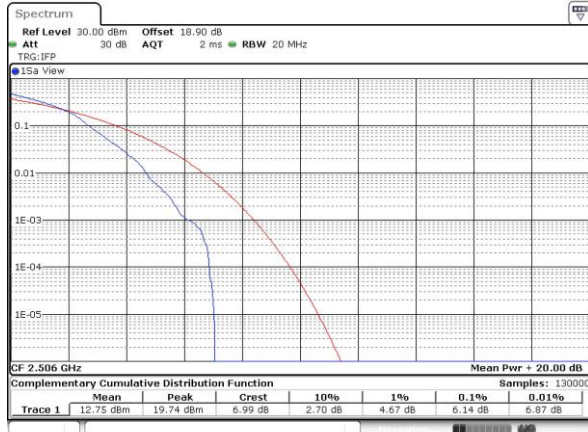
Highest Channel / Full RB



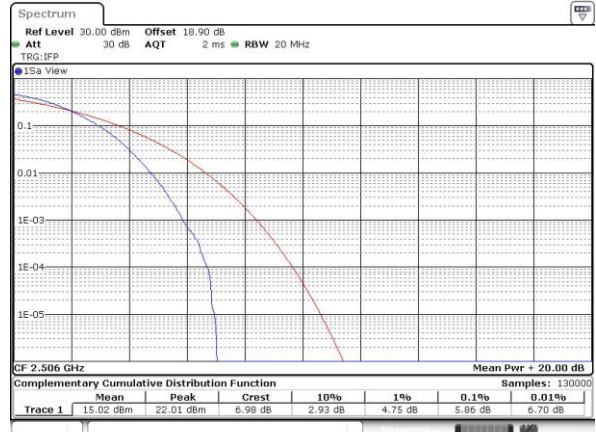


LTE Band 41 / 20MHz / 64QAM

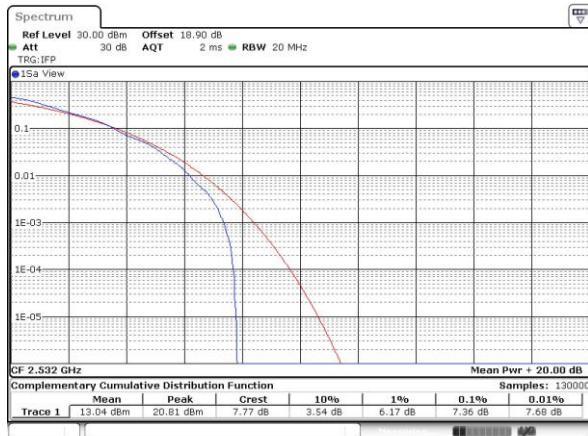
Lowest Channel / 1RB



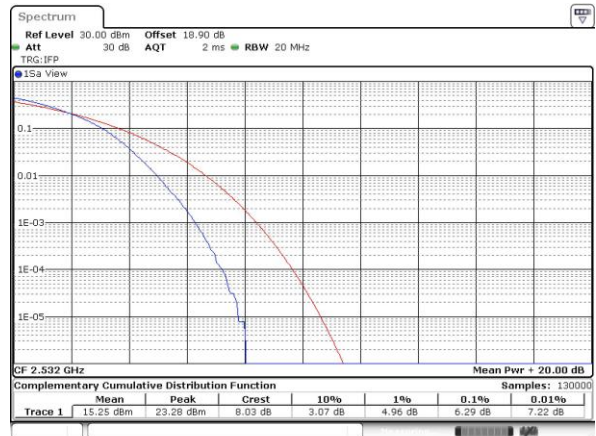
Lowest Channel / Full RB



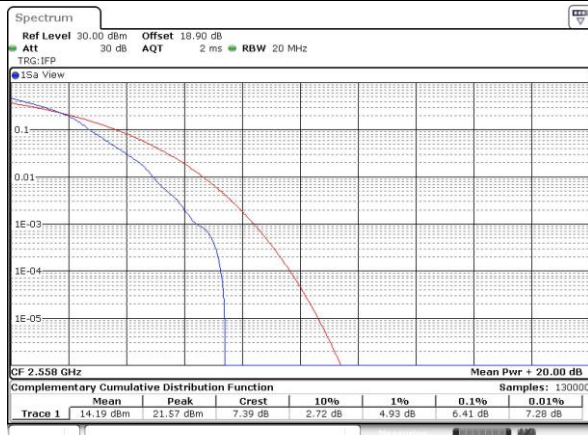
Middle Channel / 1RB



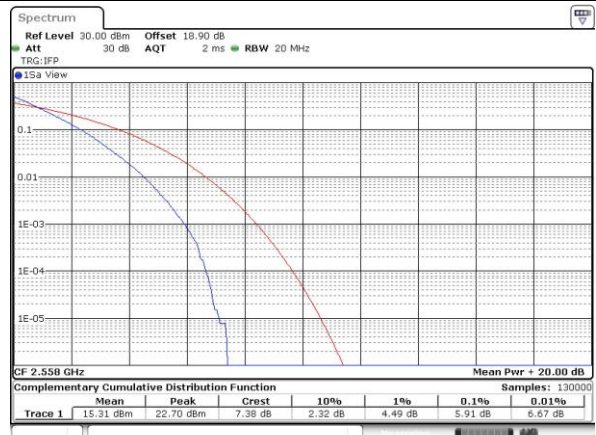
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	5.30	5.05	9.75	9.89	14.33	14.48	19.94	19.78
Middle CH	-	-	-	-	5.07	5.10	9.97	9.63	14.33	14.12	20.14	20.30
Highest CH	-	-	-	-	5.40	5.17	9.73	9.91	14.30	14.51	20.26	20.30
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.08	-	9.61	-	14.09	-	19.98	-
Middle CH	-	-	-	-	5.13	-	9.61	-	14.39	-	20.14	-
Highest CH	-	-	-	-	5.10	-	9.85	-	14.51	-	20.42	-



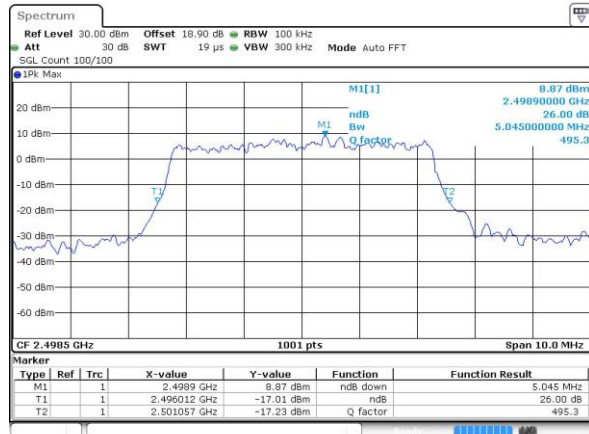
LTE Band 41

Lowest Channel / 5MHz / QPSK



Date: 3 JUN 2018 20:35:16

Lowest Channel / 5MHz / 16QAM



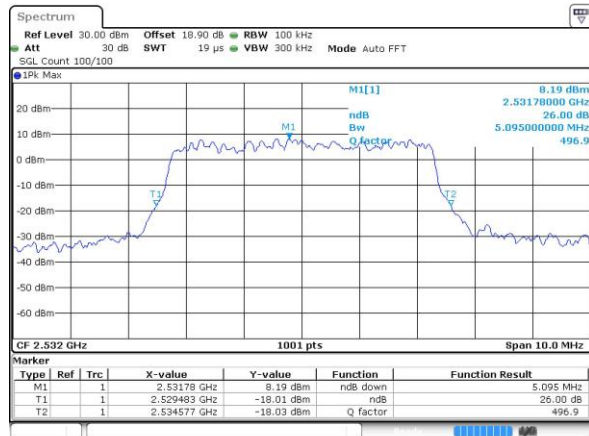
Date: 3 JUN 2018 20:34:43

Middle Channel / 5MHz / QPSK



Date: 3 JUN 2018 20:33:03

Middle Channel / 5MHz / 16QAM



Date: 3 JUN 2018 20:33:22

Highest Channel / 5MHz / QPSK



Date: 3 JUN 2018 20:35:42

Highest Channel / 5MHz / 16QAM

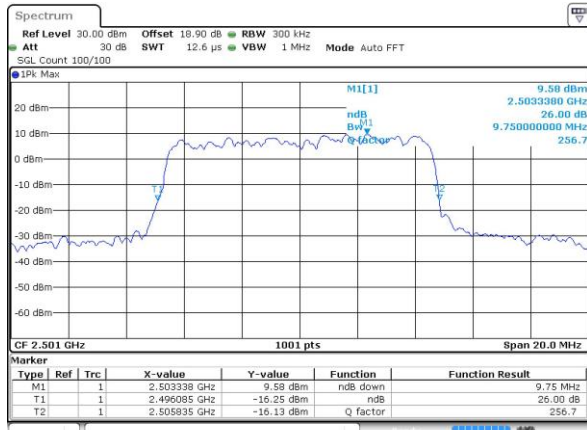


Date: 3 JUN 2018 20:36:03



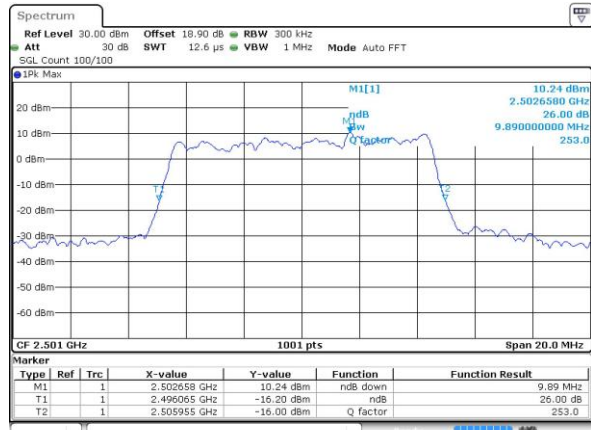
LTE Band 41

Lowest Channel / 10MHz / QPSK



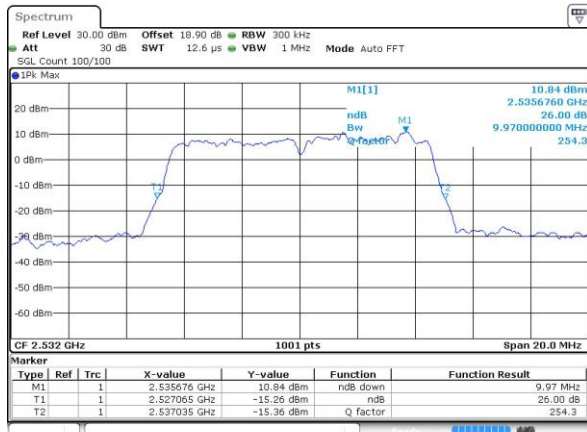
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Lowest Channel / 10MHz / 16QAM



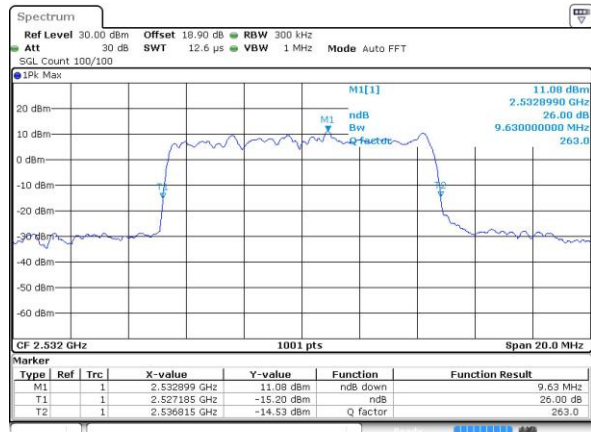
Date: 3 JUN 2018 20:45:19

Middle Channel / 10MHz / QPSK



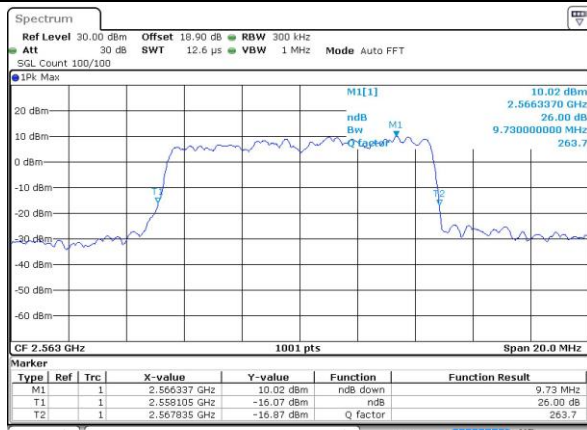
Date: 3 JUN 2018 20:38:22

Middle Channel / 10MHz / 16QAM



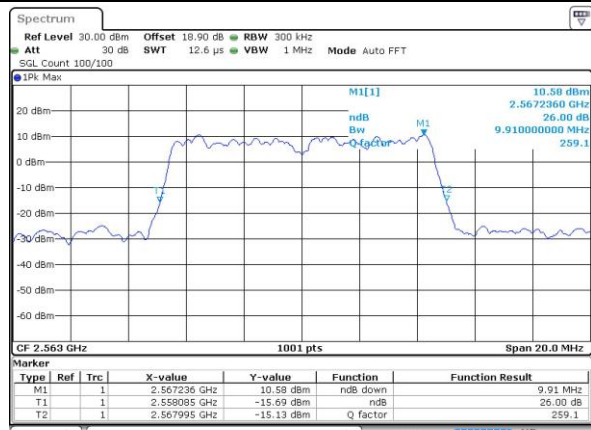
Date: 3 JUN 2018 20:37:58

Highest Channel / 10MHz / QPSK



Date: 3 JUN 2018 20:47:20

Highest Channel / 10MHz / 16QAM

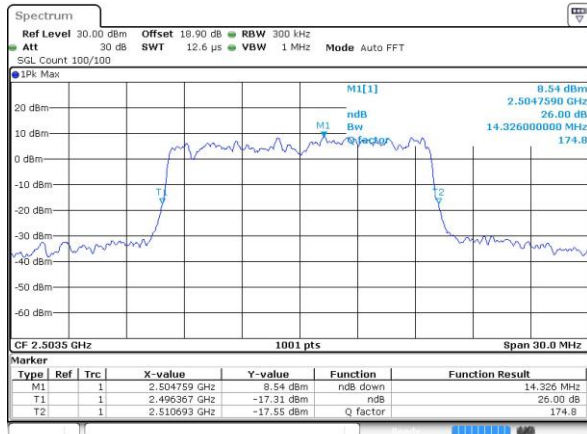


Date: 3 JUN 2018 20:46:54



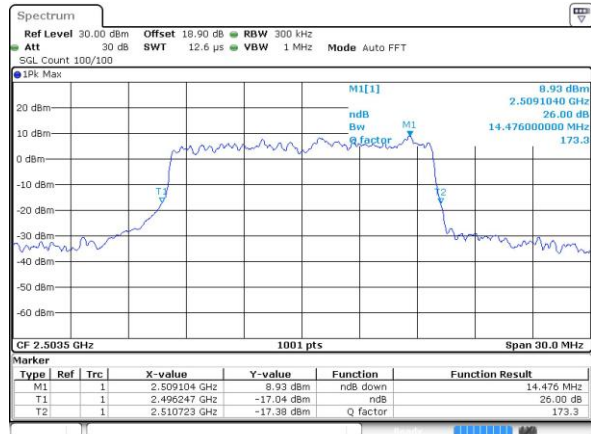
LTE Band 41

Lowest Channel / 15MHz / QPSK



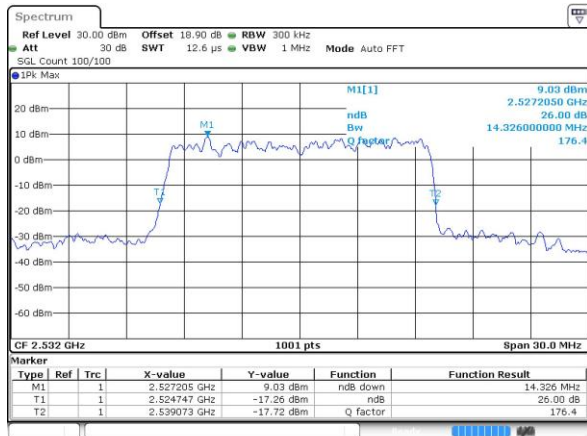
Date: 3 JUN 2018 20:50:43

Lowest Channel / 15MHz / 16QAM



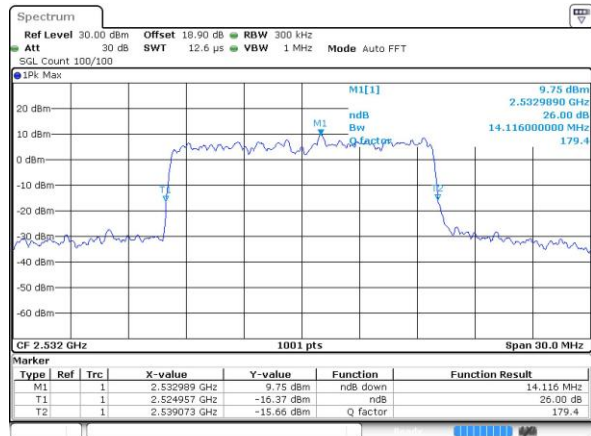
Date: 3 JUN 2018 20:50:16

Middle Channel / 15MHz / QPSK



Date: 3 JUN 2018 20:48:13

Middle Channel / 15MHz / 16QAM



Date: 3 JUN 2018 20:48:40

Highest Channel / 15MHz / QPSK



Date: 3 JUN 2018 20:51:15

Highest Channel / 15MHz / 16QAM

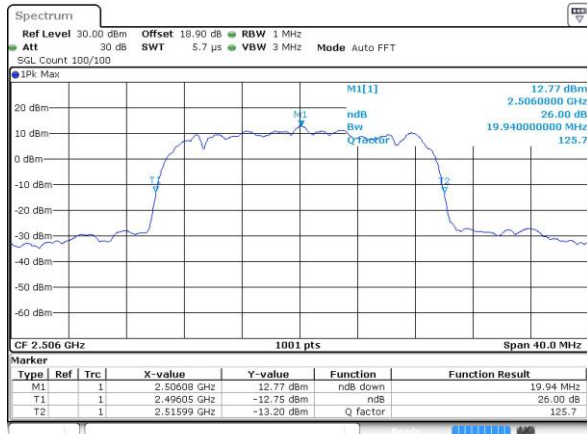


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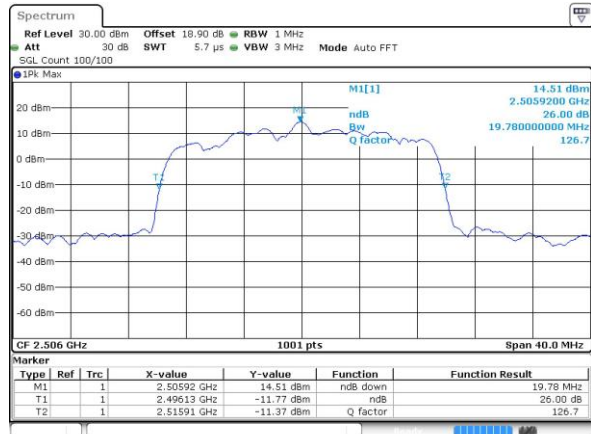
LTE Band 41

Lowest Channel / 20MHz / QPSK



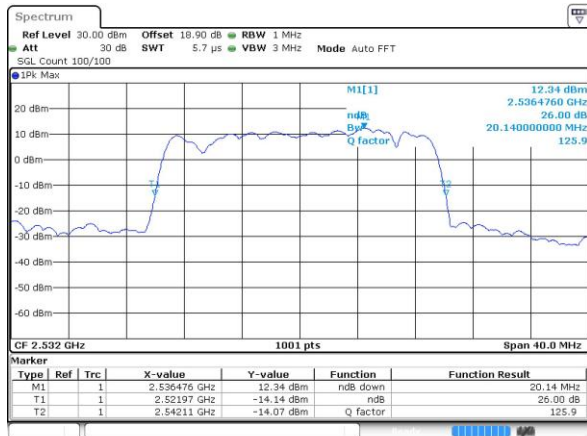
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Lowest Channel / 20MHz / 16QAM



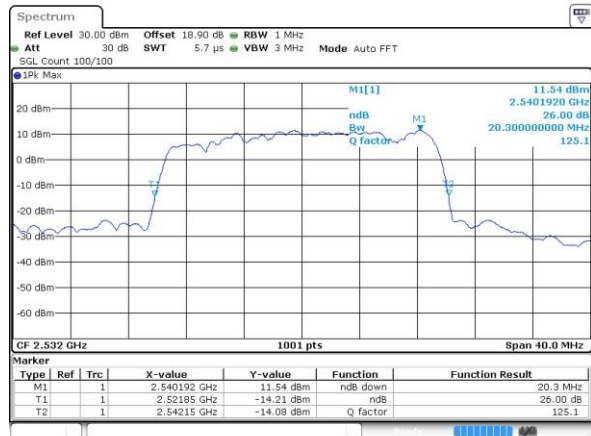
Date: 3 JUN 2018 20:28:44

Middle Channel / 20MHz / QPSK



Date: 3 JUN 2018 20:22:51

Middle Channel / 20MHz / 16QAM



Date: 3 JUN 2018 20:23:48

Highest Channel / 20MHz / QPSK



Date: 3 JUN 2018 20:22:14

Highest Channel / 20MHz / 16QAM

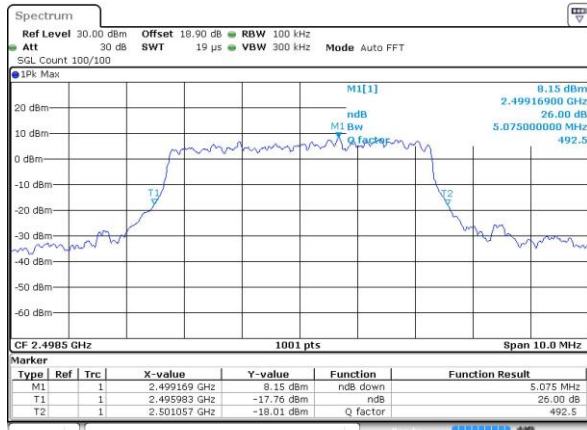


Date: 3 JUN 2018 20:21:04



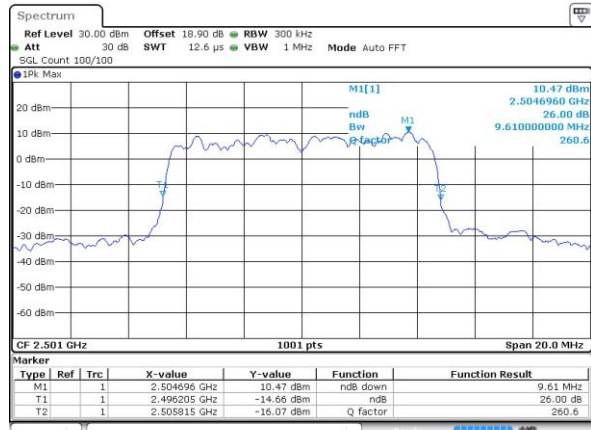
LTE Band 41

Lowest Channel / 5MHz / QPSK



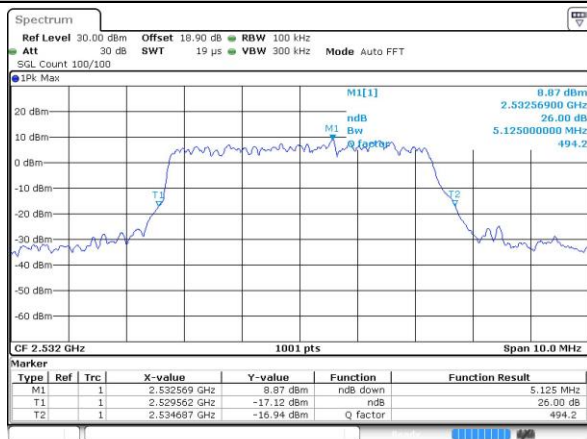
Date: 3 JUN 2018 20:34:27

Lowest Channel / 10MHz / 16QAM



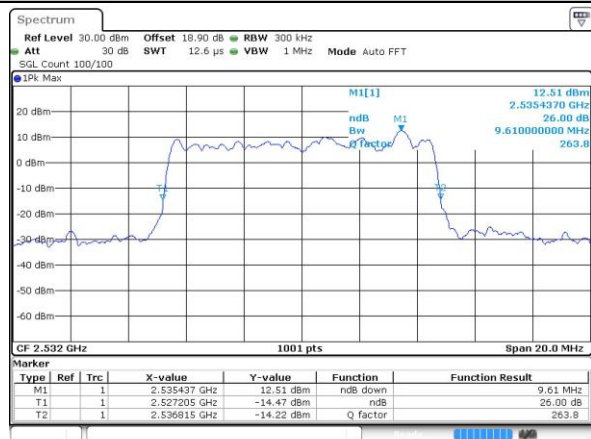
Date: 3 JUN 2018 20:45:45

Middle Channel / 5MHz / QPSK



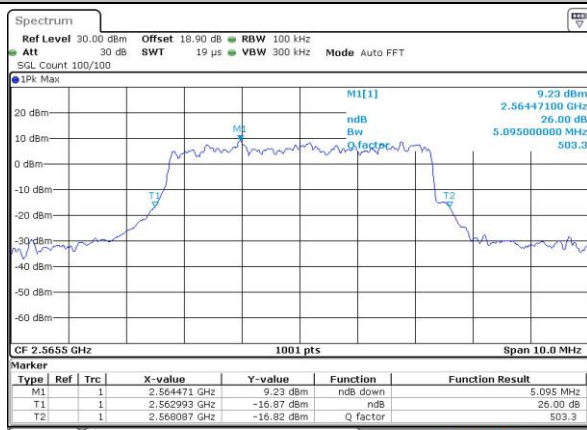
Date: 3 JUN 2018 20:33:47

Middle Channel / 10MHz / 16QAM



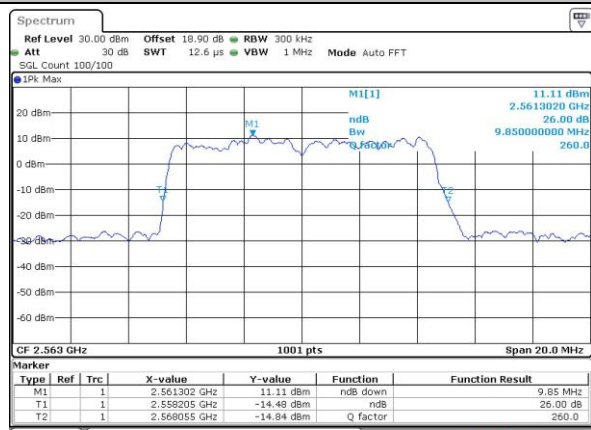
Date: 3 JUN 2018 20:37:34

Highest Channel / 5MHz / QPSK



Date: 3 JUN 2018 20:36:35

Highest Channel / 10MHz / 16QAM

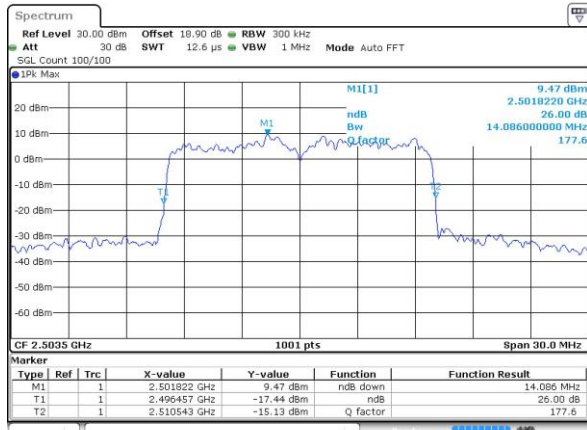


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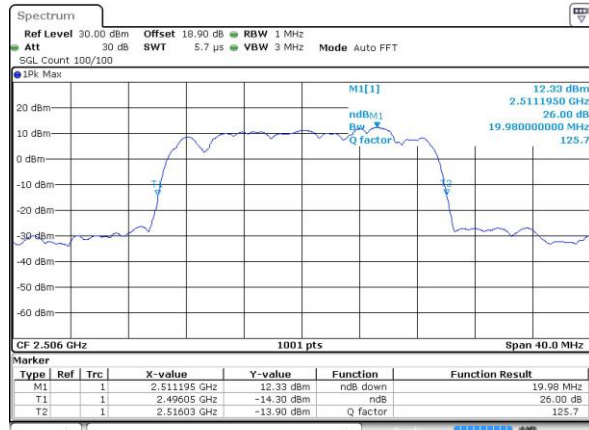
LTE Band 41

Lowest Channel / 15MHz / QPSK



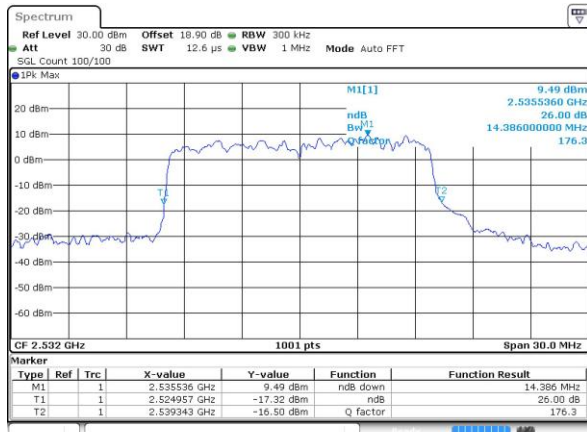
Date: 3 JUN 2018 20:49:46

Lowest Channel / 20MHz / 16QAM



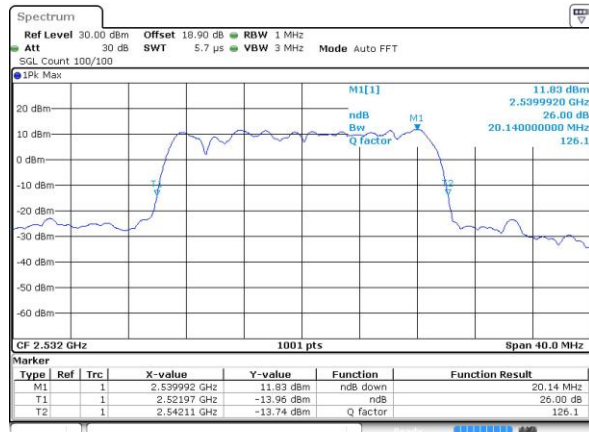
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Middle Channel / 15MHz / QPSK



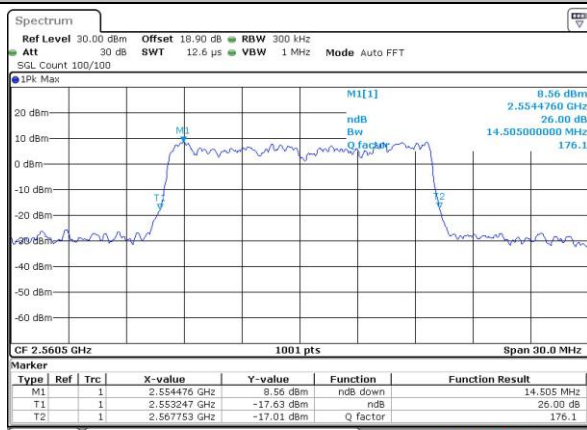
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Middle Channel / 20MHz / 16QAM



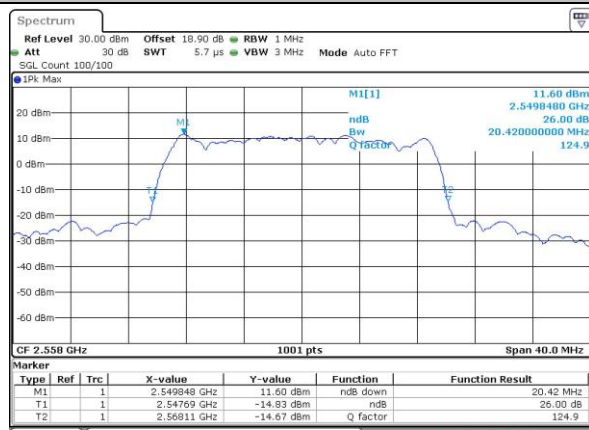
Date: 3 JUN 2018 20:24:35

Highest Channel / 15MHz / QPSK



Date: 3 JUN 2018 20:52:11

Highest Channel / 20MHz / 16QAM



Date: 3 JUN 2018 20:32:01

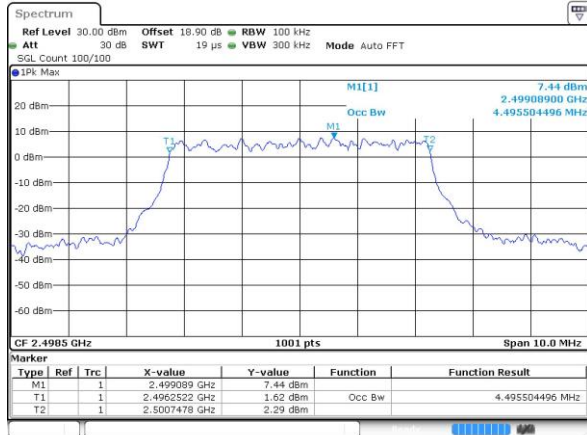
**Occupied Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.5	4.48	8.99	9.01	13.4	13.34	18.22	18.18
Middle CH	-	-	-	-	4.49	4.53	9.07	9.03	13.49	13.49	18.5	18.38
Highest CH	-	-	-	-	4.5	4.48	9.11	9.01	13.52	13.49	18.5	18.5
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.46	-	8.99	-	13.37	-	18.42	-
Middle CH	-	-	-	-	4.49	-	9.01	-	13.55	-	18.34	-
Highest CH	-	-	-	-	4.54	-	9.07	-	13.52	-	18.42	-



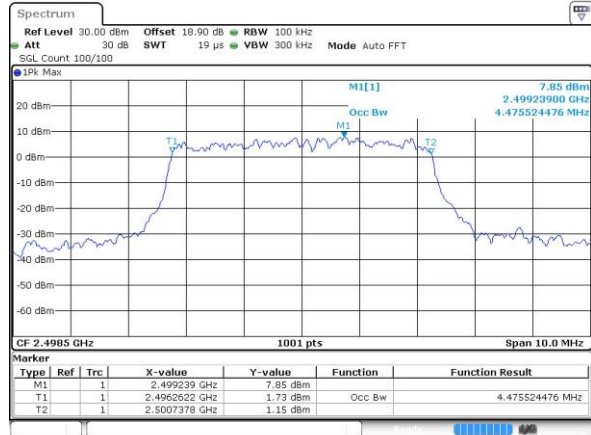
LTE Band 41

Lowest Channel / 5MHz / QPSK



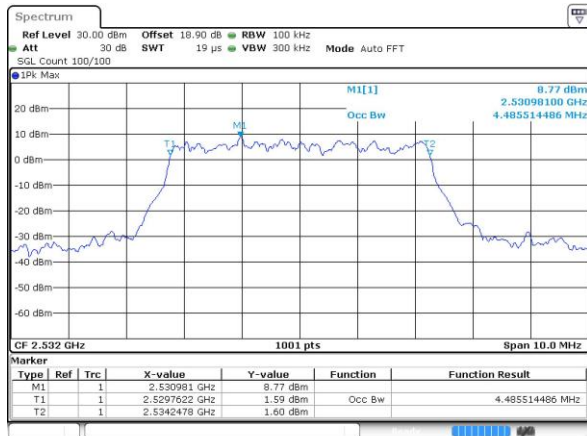
Date: 3 JUN 2018 20:35:09

Lowest Channel / 5MHz / 16QAM



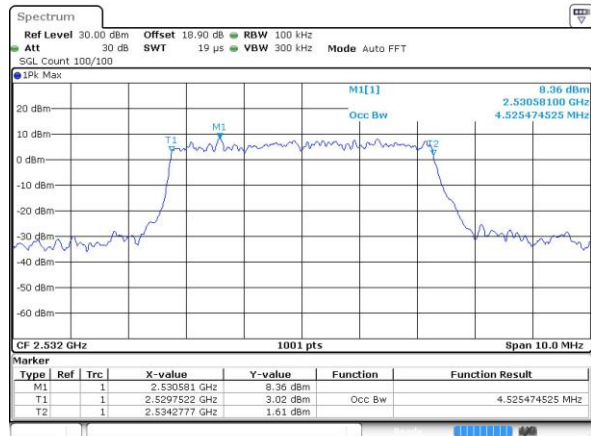
Date: 3 JUN 2018 20:34:50

Middle Channel / 5MHz / QPSK



Date: 3 JUN 2018 20:32:56

Middle Channel / 5MHz / 16QAM



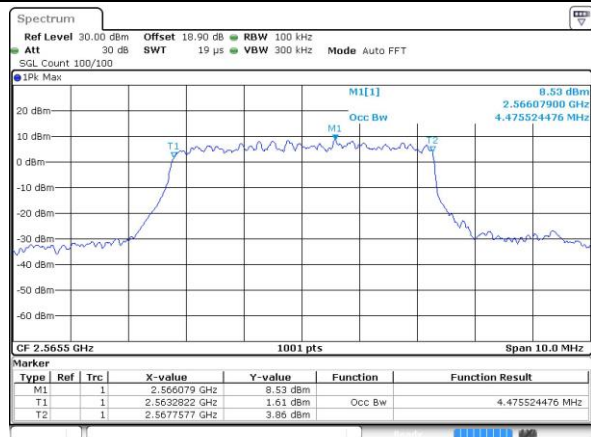
Date: 3 JUN 2018 20:33:16

Highest Channel / 5MHz / QPSK



Date: 3 JUN 2018 20:35:49

Highest Channel / 5MHz / 16QAM

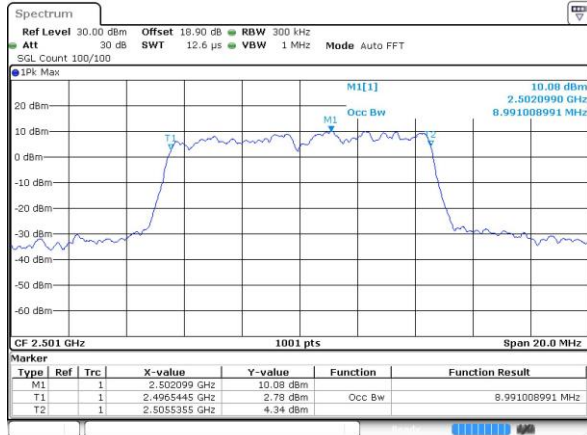


Date: 3 JUN 2018 20:36:10

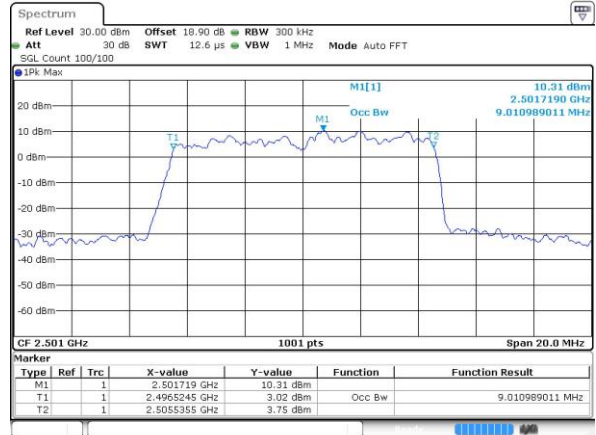


LTE Band 41

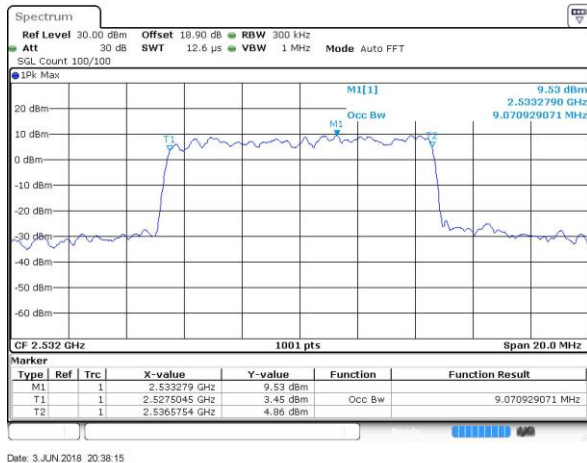
Lowest Channel / 10MHz / QPSK



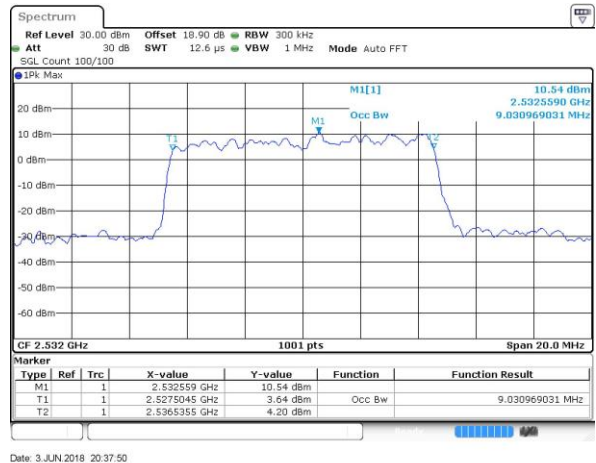
Lowest Channel / 10MHz / 16QAM



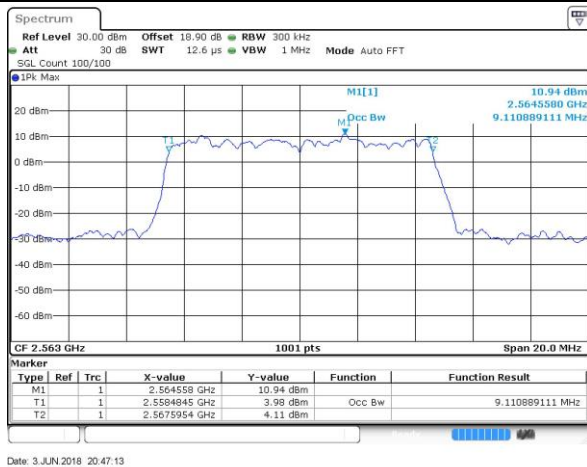
Middle Channel / 10MHz / QPSK



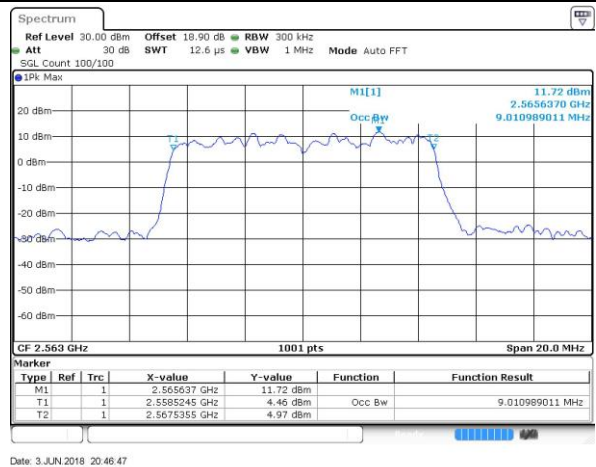
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



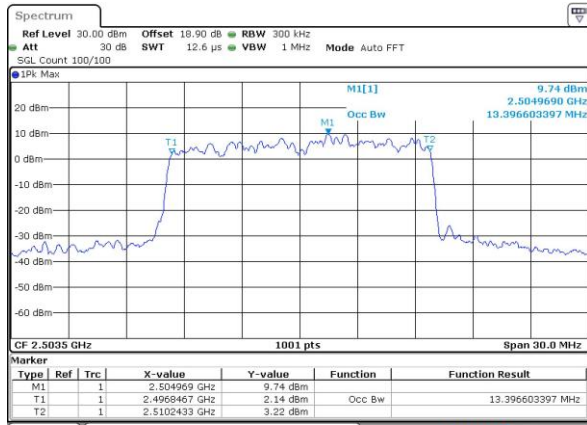
Highest Channel / 10MHz / 16QAM





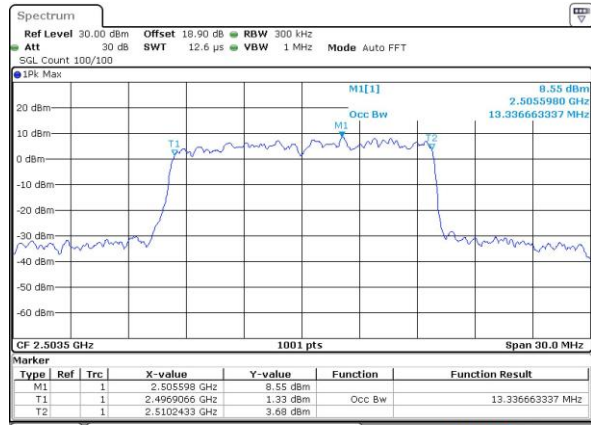
LTE Band 41

Lowest Channel / 15MHz / QPSK



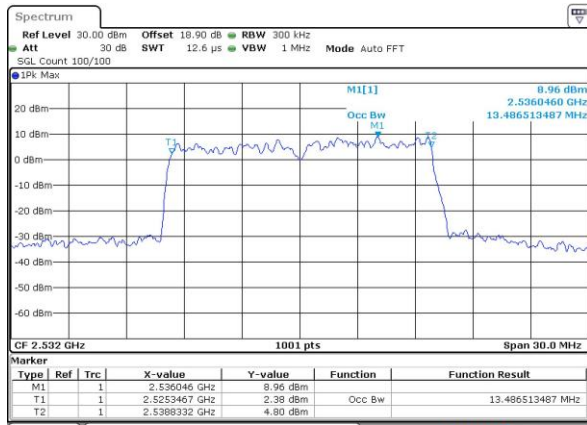
Date: 3 JUN 2018 20:50:37

Lowest Channel / 15MHz / 16QAM



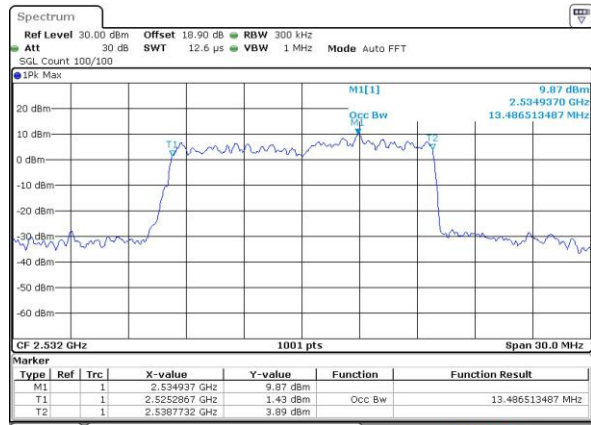
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Middle Channel / 15MHz / QPSK



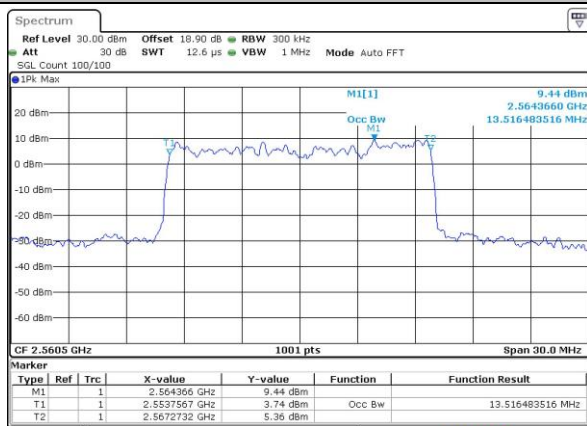
Date: 3 JUN 2018 20:48:06

Middle Channel / 15MHz / 16QAM



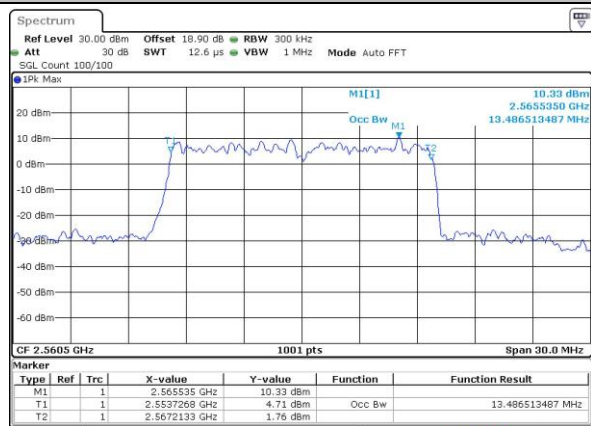
Date: 3 JUN 2018 20:48:33

Highest Channel / 15MHz / QPSK



Date: 3 JUN 2018 20:51:08

Highest Channel / 15MHz / 16QAM

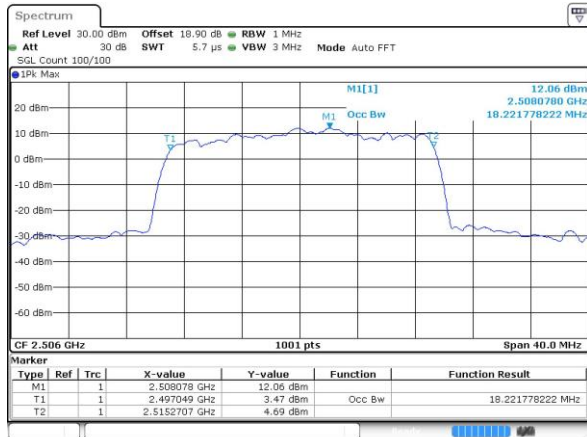


Date: 3 JUN 2018 20:51:29

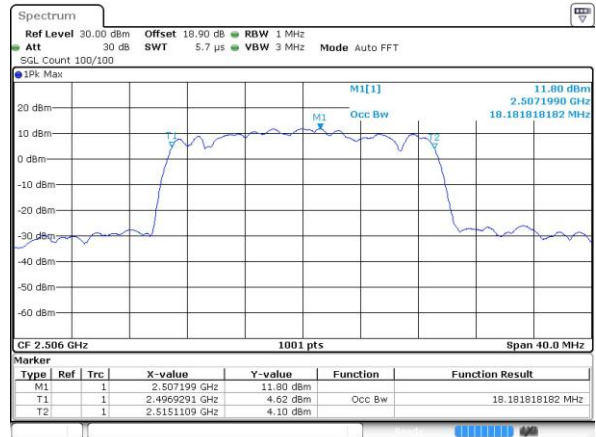


LTE Band 41

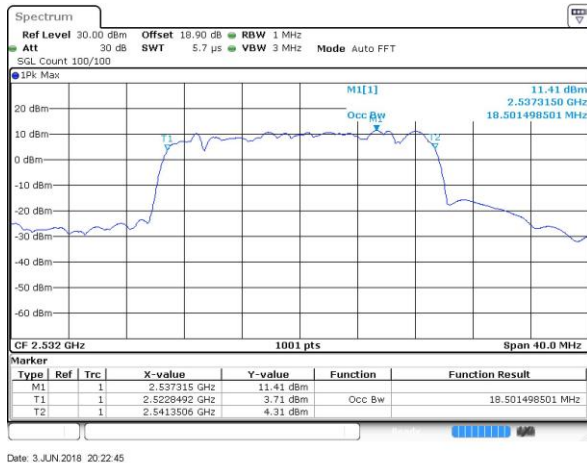
Lowest Channel / 20MHz / QPSK



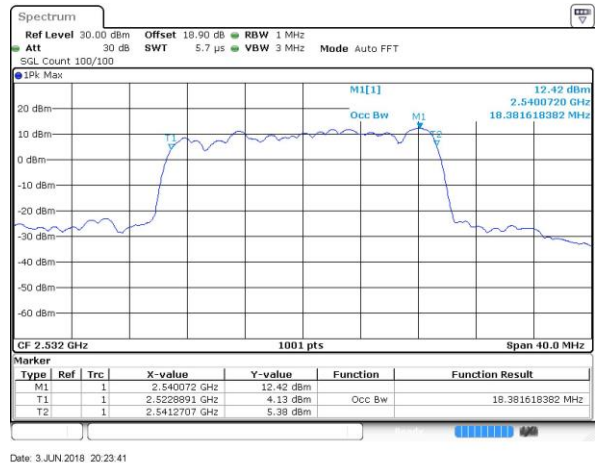
Lowest Channel / 20MHz / 16QAM



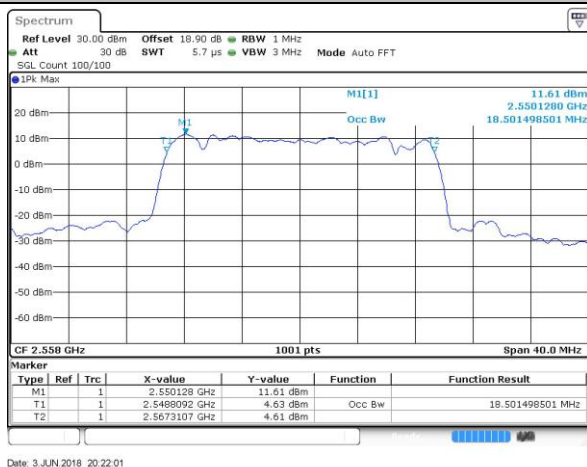
Middle Channel / 20MHz / QPSK



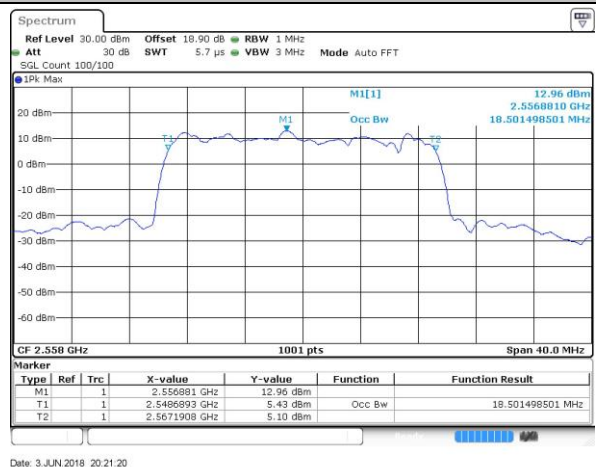
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



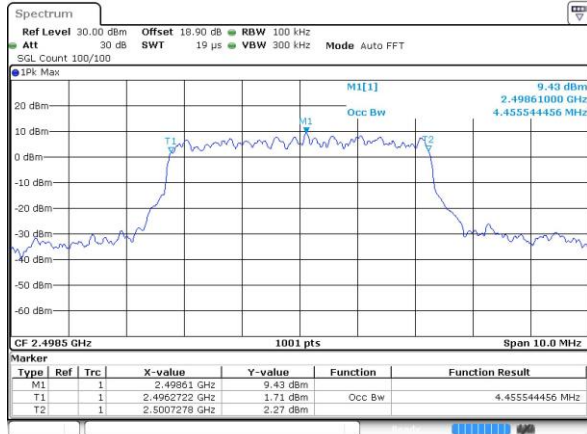
Highest Channel / 20MHz / 16QAM





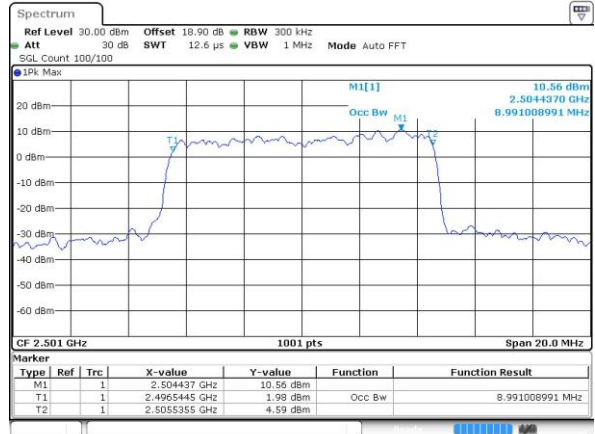
LTE Band 41

Lowest Channel / 5MHz / 64QAM



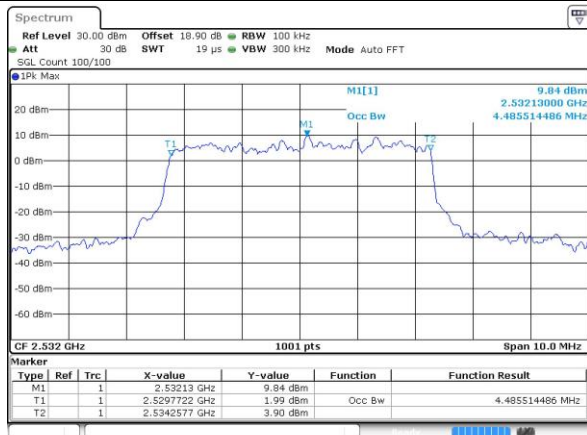
Date: 3 JUN 2018 20:34:20

Lowest Channel / 10MHz / 64QAM



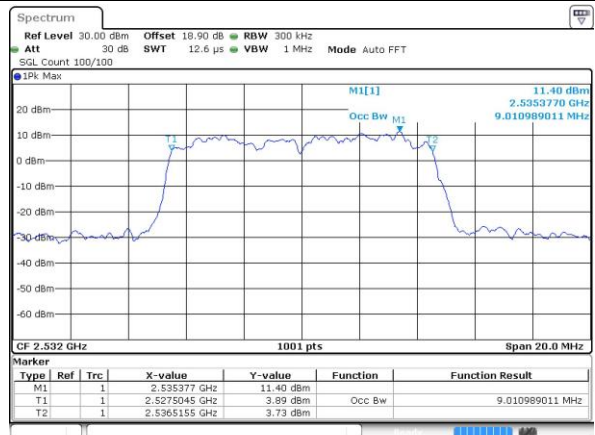
Date: 3 JUN 2018 20:45:37

Middle Channel / 5MHz / 64QAM



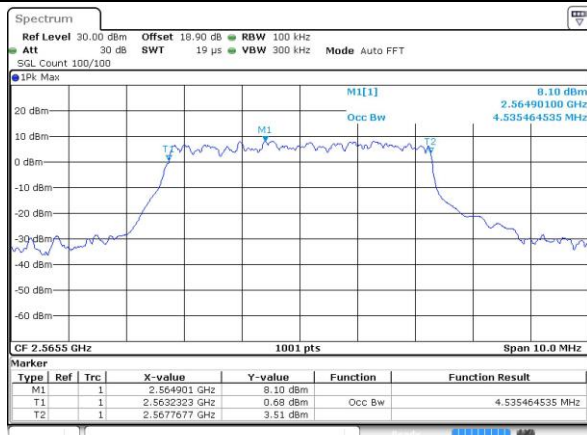
Date: 3 JUN 2018 20:33:41

Middle Channel / 10MHz / 64QAM



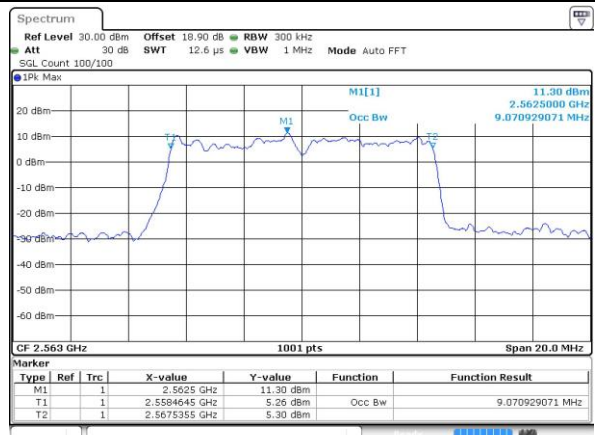
Date: 3 JUN 2018 20:37:28

Highest Channel / 5MHz / 64QAM



Date: 3 JUN 2018 20:36:28

Highest Channel / 10MHz / 64QAM

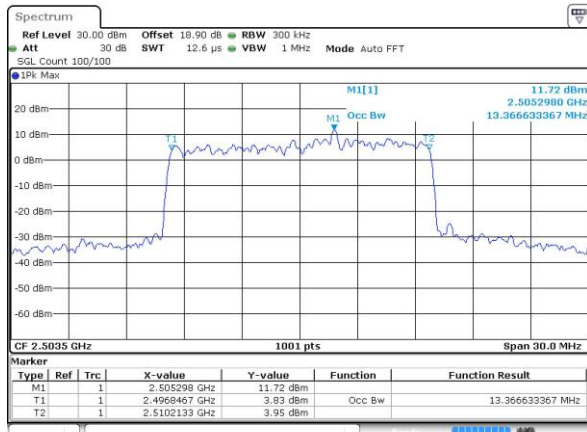


Date: 3 JUN 2018 20:46:20

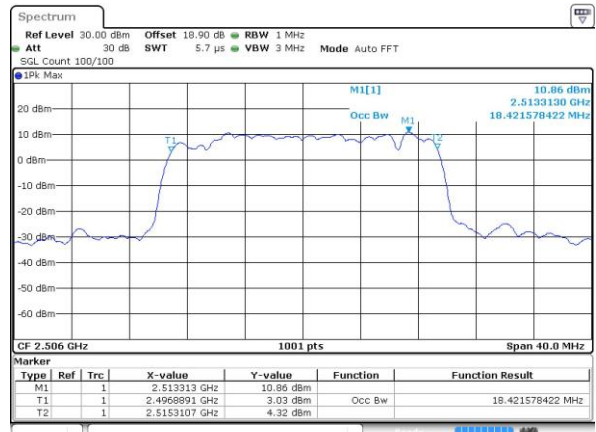


LTE Band 41

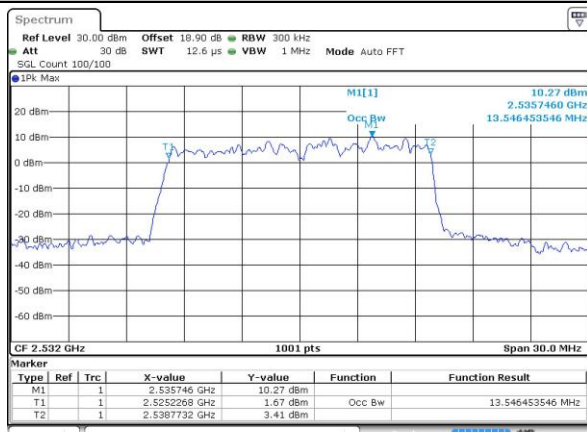
Lowest Channel / 15MHz / 64QAM



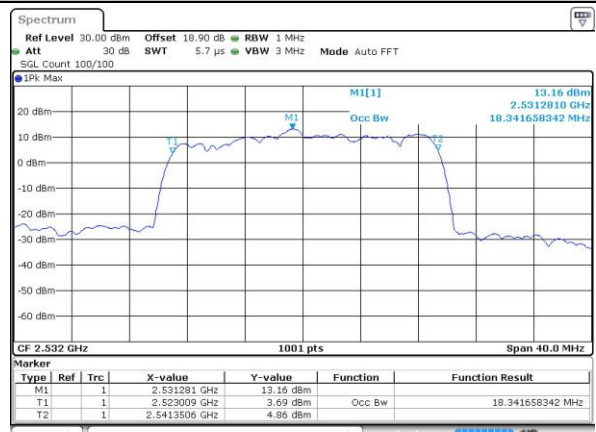
Lowest Channel / 20MHz / 64QAM



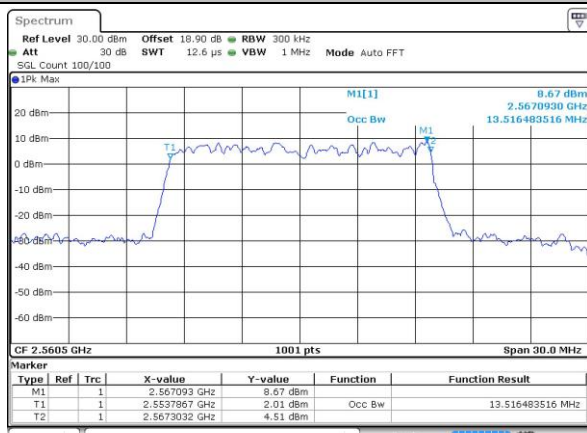
Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

