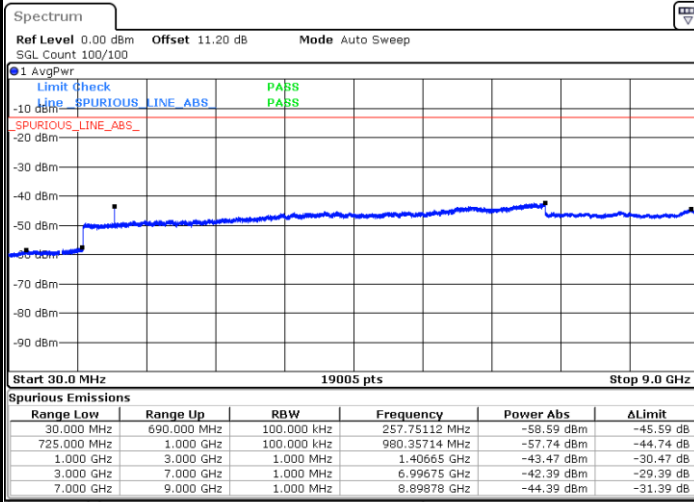




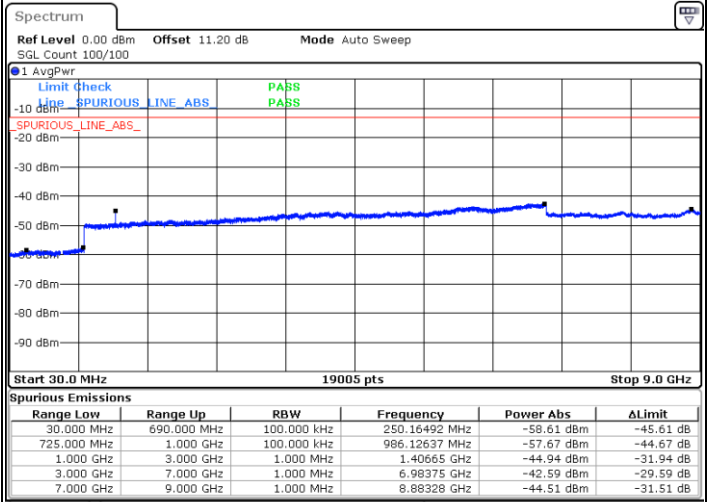
LTE Band 12 / 10MHz

Middle Channel / QPSK



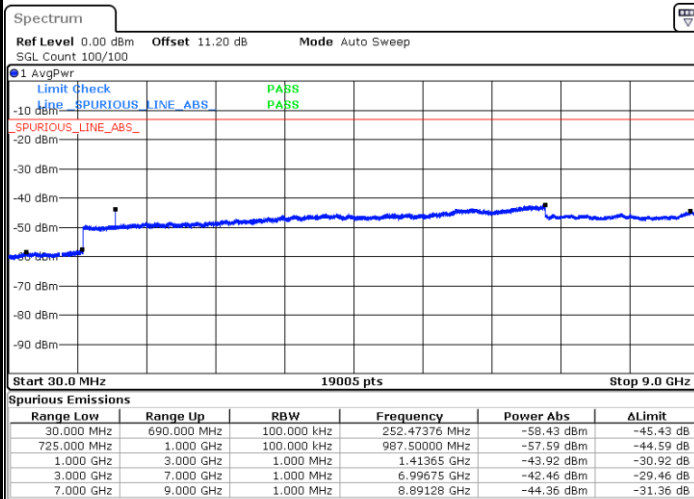
Date: 12 AUG 2020 02:03:24

Middle Channel / 16QAM



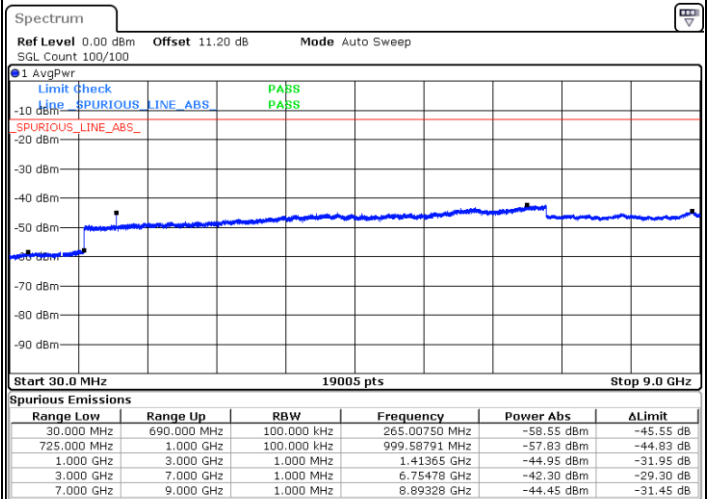
Date: 12 AUG 2020 02:02:44

Highest Channel / QPSK



Date: 12 AUG 2020 02:08:54

Highest Channel / 16QAM

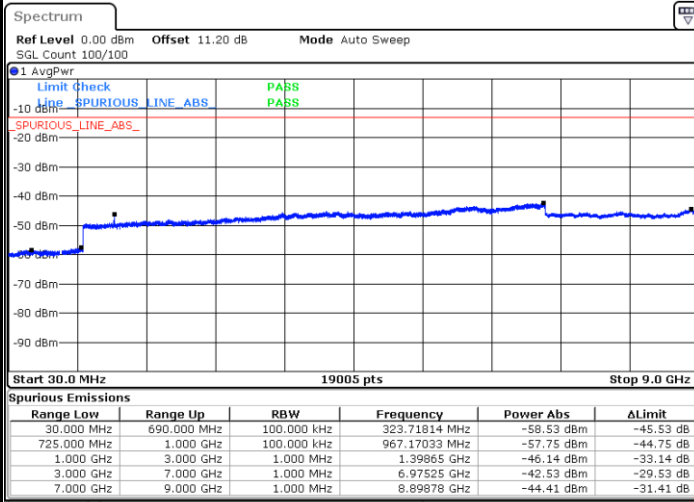


Date: 12 AUG 2020 02:09:35



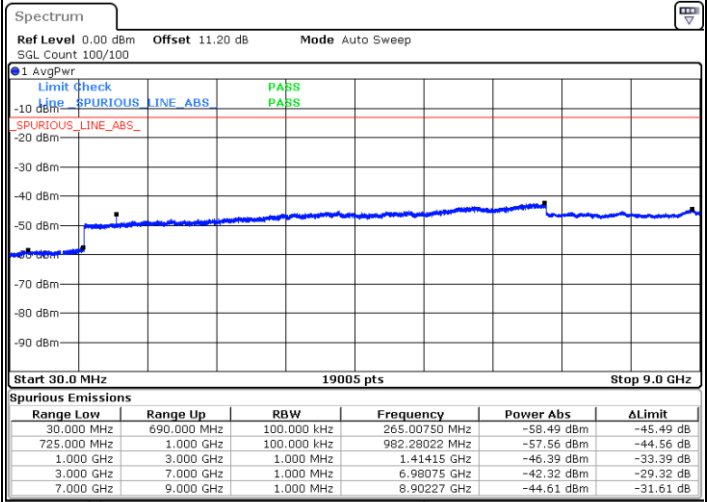
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



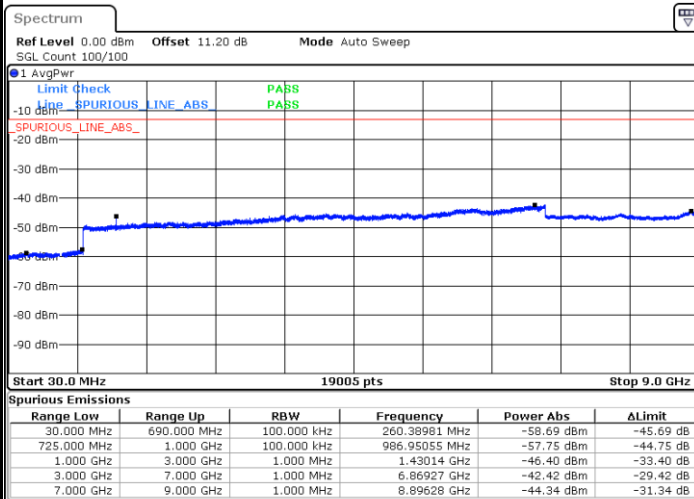
Date: 12.AUG.2020 01:07:25

Middle Channel / 64QAM



Date: 12.AUG.2020 01:08:29

Highest Channel / 64QAM

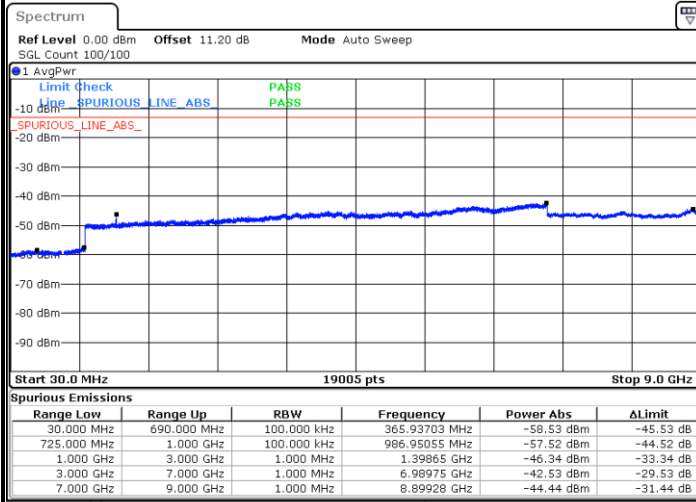


Date: 12.AUG.2020 01:11:34



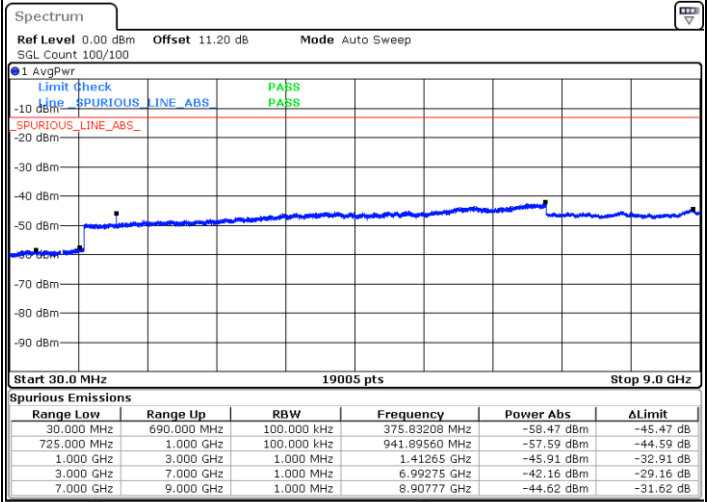
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



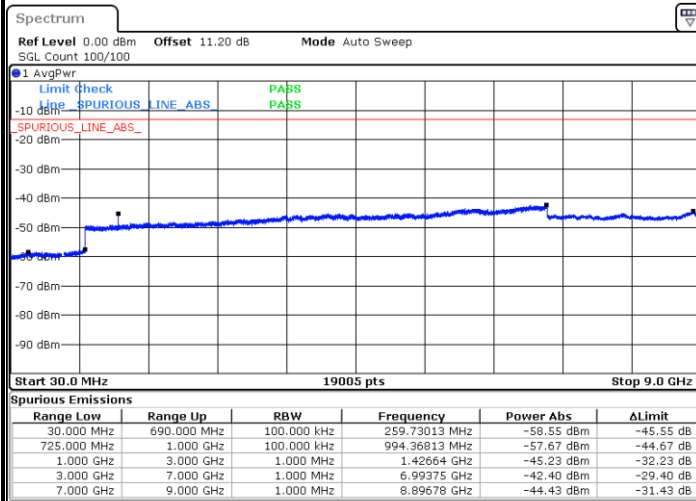
Date: 12.AUG.2020 01:29:11

Middle Channel / 64QAM



Date: 12.AUG.2020 01:30:15

Highest Channel / 64QAM

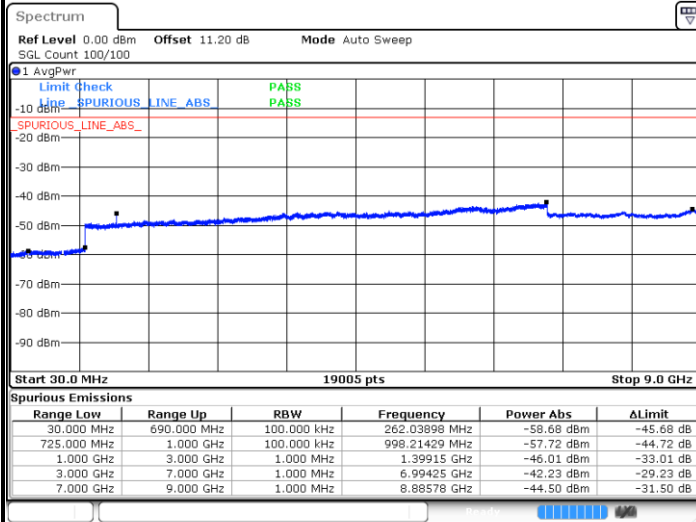


Date: 12.AUG.2020 01:33:20



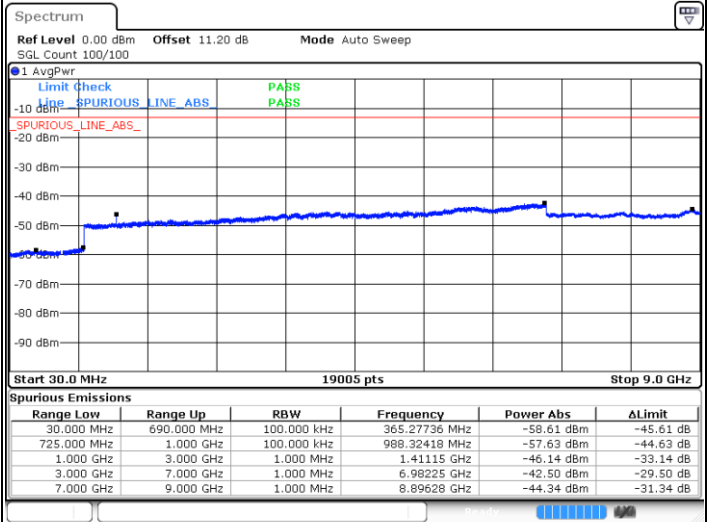
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



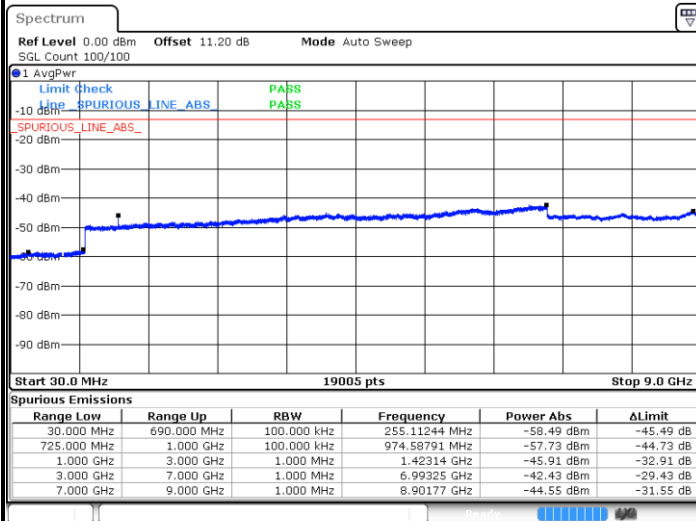
Date: 12.AUG.2020 01:36:27

Middle Channel / 64QAM



Date: 12.AUG.2020 01:37:30

Highest Channel / 64QAM

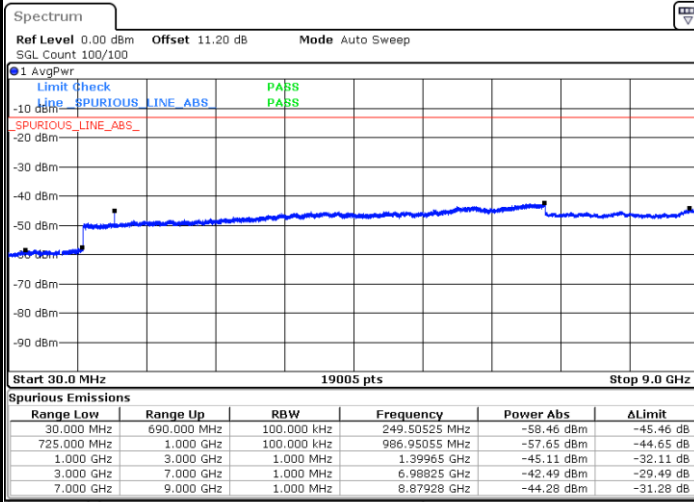


Date: 12.AUG.2020 01:40:35



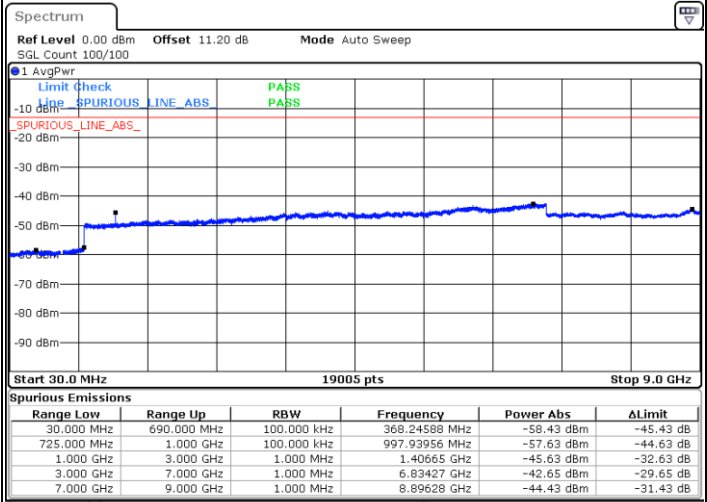
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



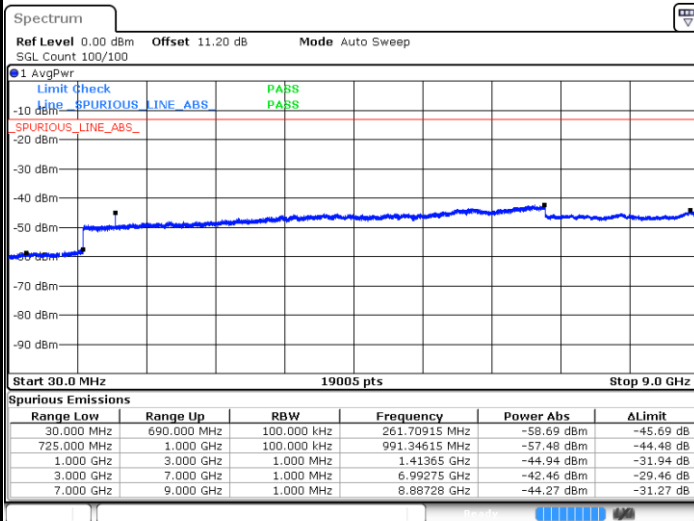
Date: 12.AUG.2020 02:12:41

Middle Channel / 64QAM



Date: 12.AUG.2020 02:13:44

Highest Channel / 64QAM



Date: 12.AUG.2020 02:16:50

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0119	PASS
40	Normal Voltage	0.0143	
30	Normal Voltage	0.0134	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0130	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0081	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0133	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



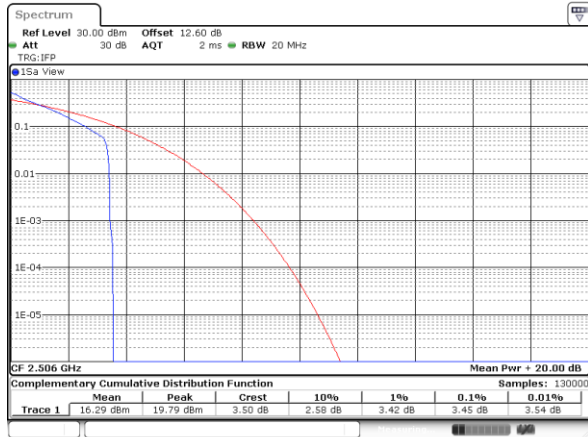
LTE Band 41

Peak-to-Average Ratio

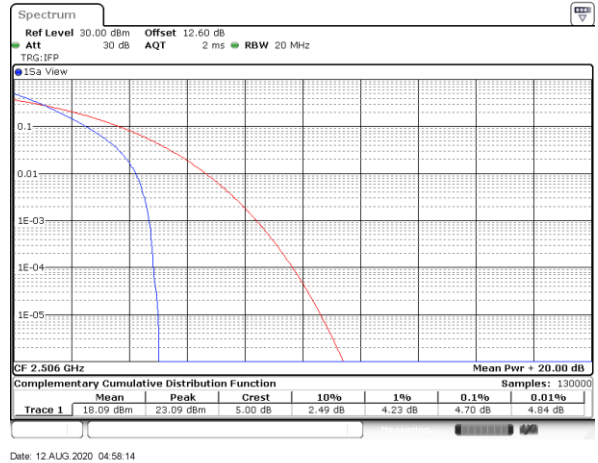
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.45	4.70	4.67	5.94	PASS
Middle CH	3.88	5.04	5.39	5.62	
Highest CH	3.77	4.93	5.10	5.94	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.55	6.55	-	-	PASS
Middle CH	6.78	6.58	-	-	
Highest CH	6.84	6.81	-	-	

LTE Band 41 / 20MHz / QPSK

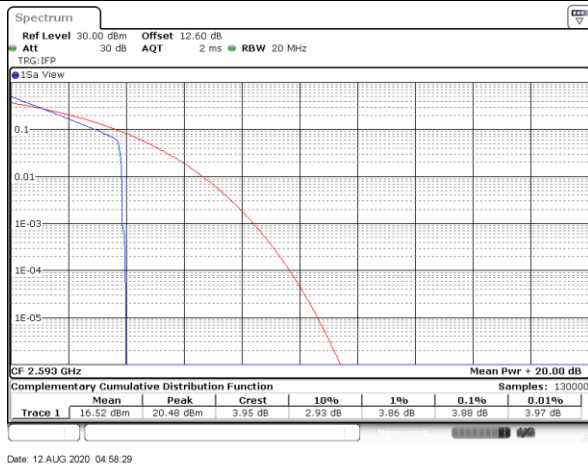
Lowest Channel / 1RB



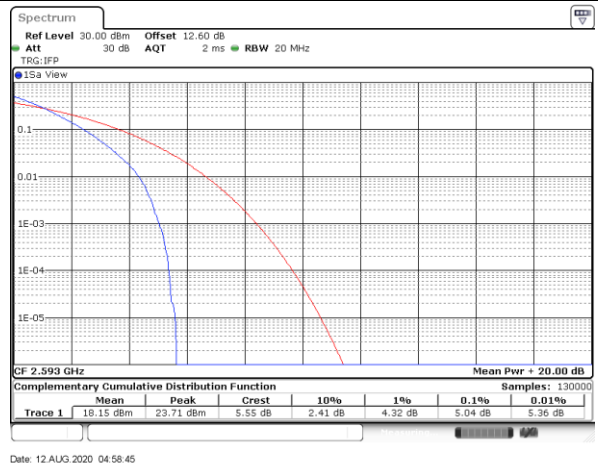
Lowest Channel / Full RB



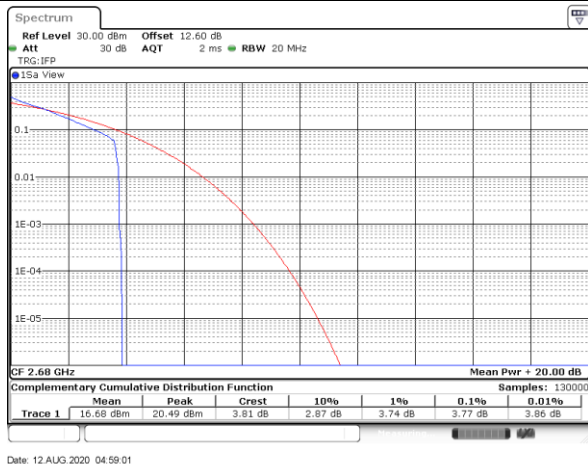
Middle Channel / 1RB



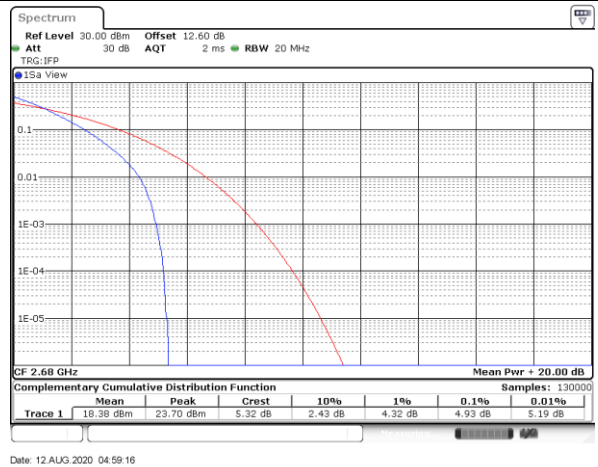
Middle Channel / Full RB

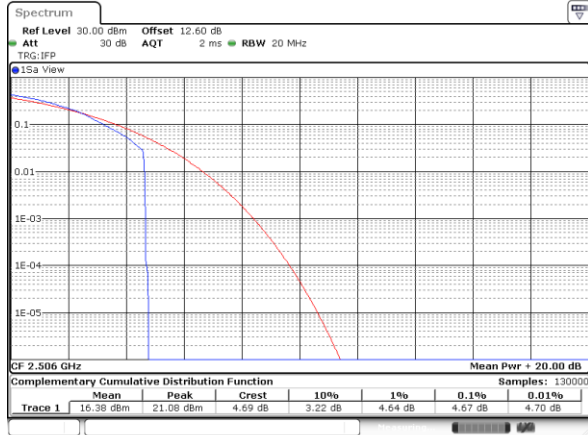


Highest Channel / 1RB

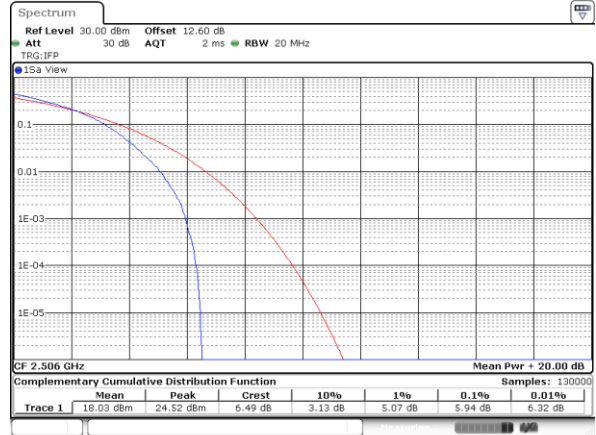


Highest Channel / Full RB

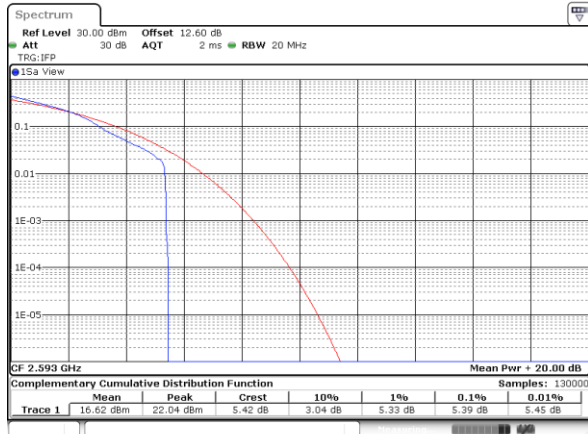


LTE Band 41 / 20MHz / 16QAM
Lowest Channel / 1RB


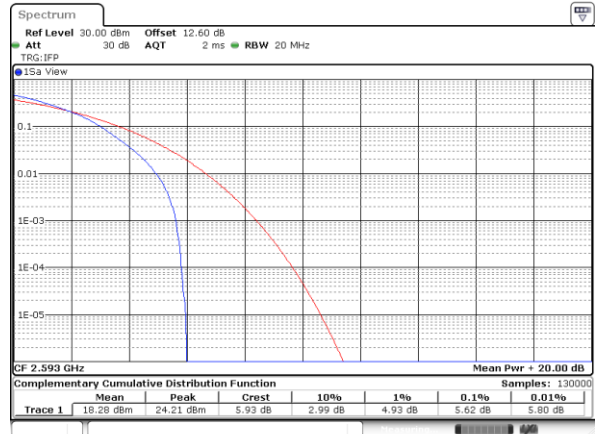
Date: 12.AUG.2020 04:56:26

Lowest Channel / Full RB


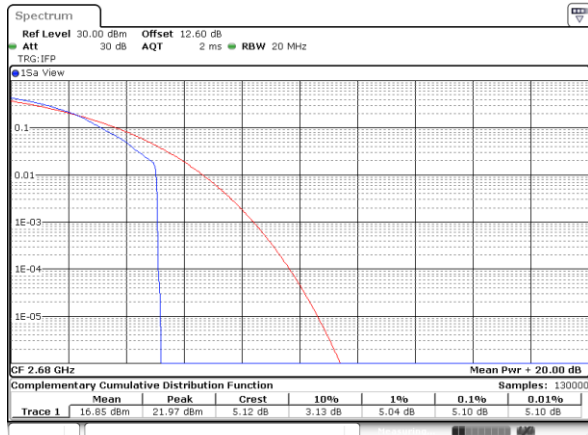
Date: 12.AUG.2020 04:56:41

Middle Channel / 1RB


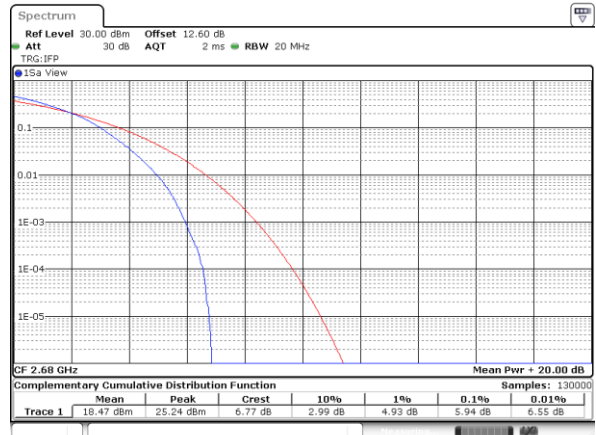
Date: 12.AUG.2020 04:56:56

Middle Channel / Full RB


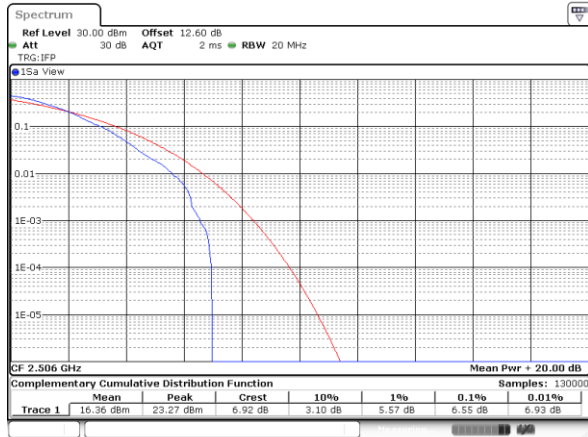
Date: 12.AUG.2020 04:57:11

Highest Channel / 1RB


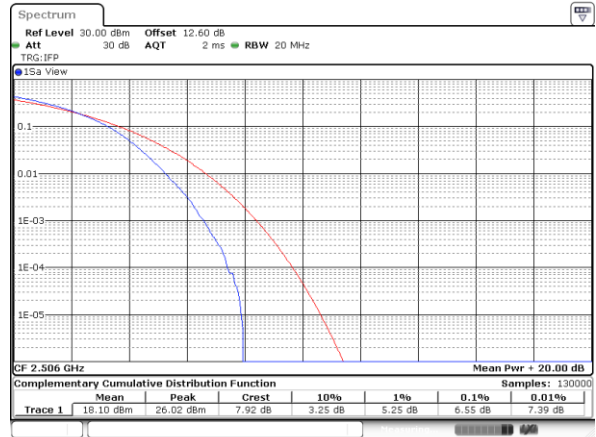
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Highest Channel / Full RB


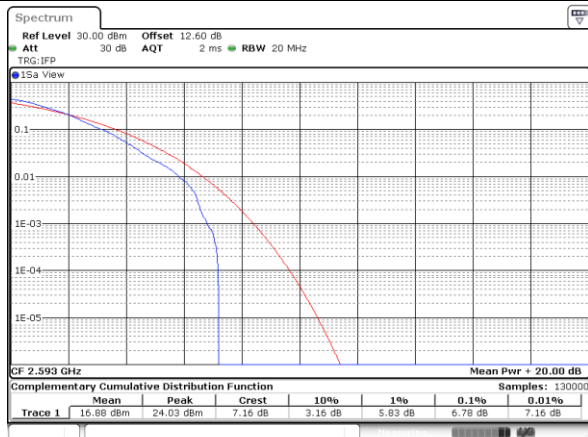
Date: 12.AUG.2020 04:57:42

LTE Band 41 / 20MHz / 64QAM
Lowest Channel / 1RB


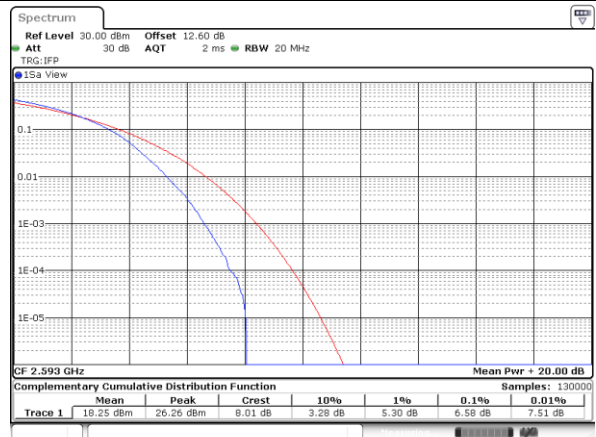
Date: 12 AUG 2020 04:53:53

Lowest Channel / Full RB


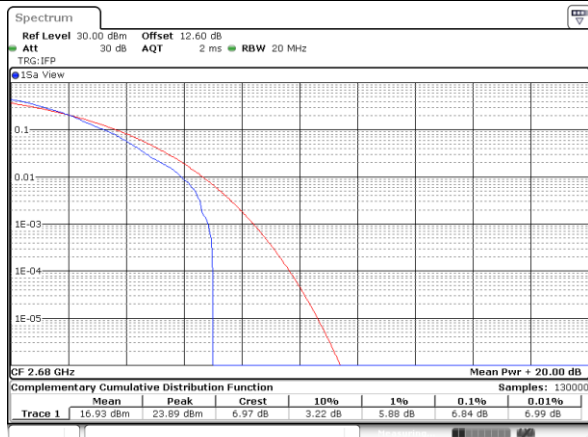
Date: 12 AUG 2020 04:54:11

Middle Channel / 1RB


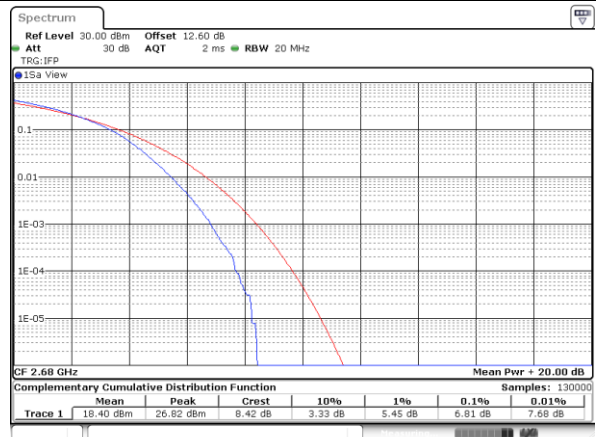
Date: 12 AUG 2020 04:54:25

Middle Channel / Full RB


Date: 12 AUG 2020 04:54:41

Highest Channel / 1RB


Date: 12 AUG 2020 04:55:48

Highest Channel / Full RB


Date: 12 AUG 2020 04:56:07

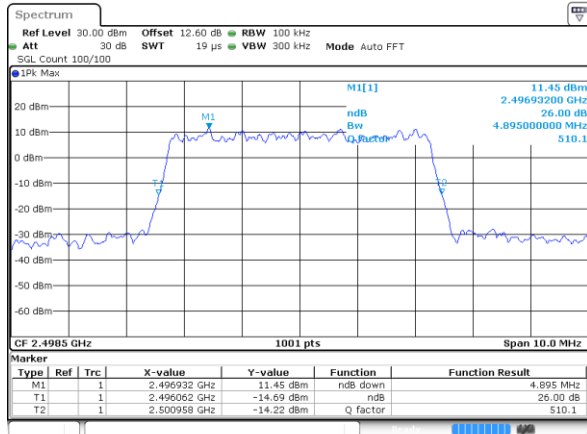
**26dB Bandwidth**

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	-	-	-	-	4.90	4.81	9.81	9.61	14.15	14.21	18.66	18.74
Middle CH	-	-	-	-	4.92	4.86	9.75	9.63	14.27	14.12	18.62	18.62
Highest CH	-	-	-	-	4.84	4.78	9.67	9.77	14.15	14.15	19.10	18.70
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.88	-	9.95	-	14.33	-	18.82	-
Middle CH	-	-	-	-	4.90	-	9.91	-	14.63	-	18.98	-
Highest CH	-	-	-	-	4.90	-	9.65	-	14.33	-	18.82	-



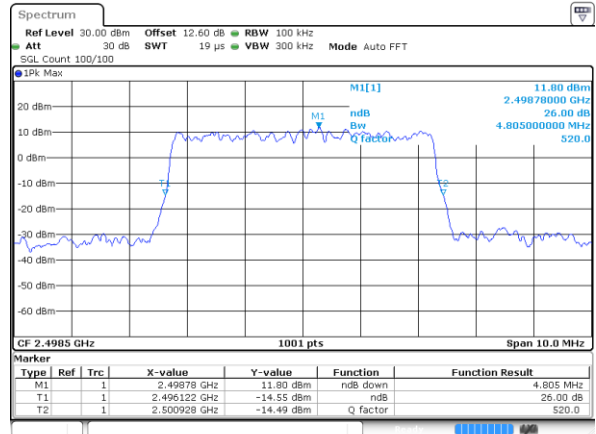
LTE Band 41

Lowest Channel / 5MHz / QPSK



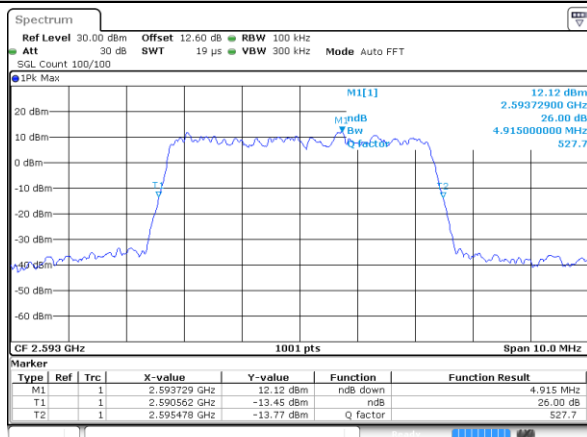
Date: 12 AUG 2020 04:31:14

Lowest Channel / 5MHz / 16QAM



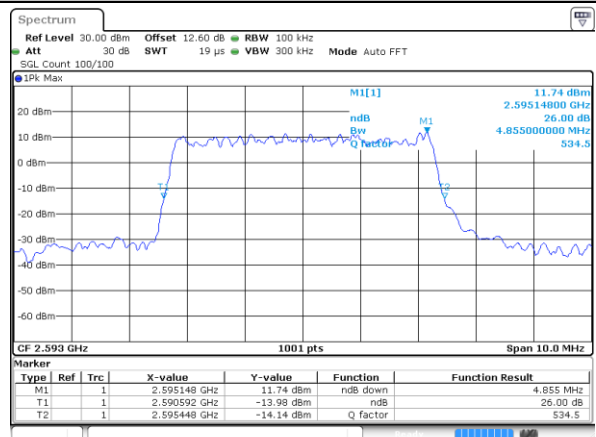
Date: 12 AUG 2020 04:31:26

Middle Channel / 5MHz / QPSK



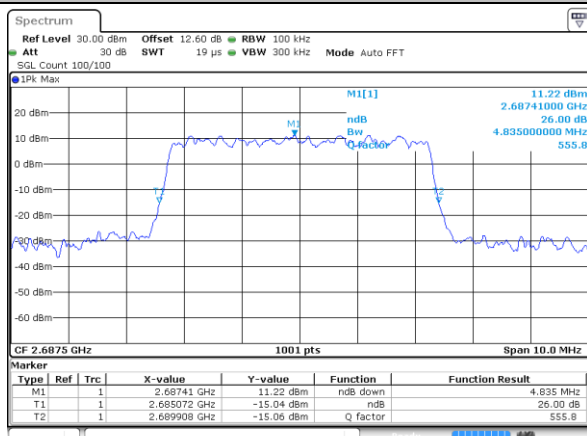
Date: 12 AUG 2020 04:32:01

Middle Channel / 5MHz / 16QAM



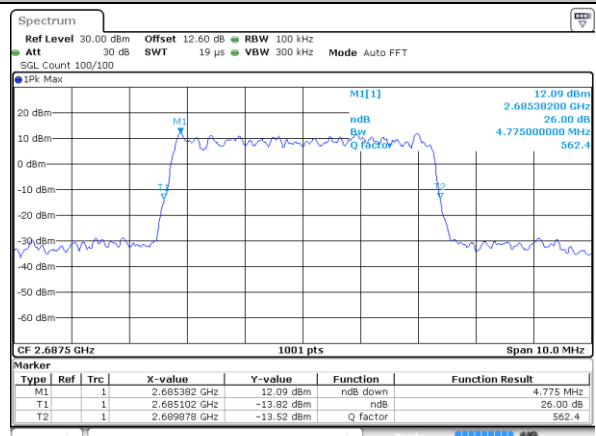
Date: 12 AUG 2020 04:32:12

Highest Channel / 5MHz / QPSK



Date: 12 AUG 2020 04:32:48

Highest Channel / 5MHz / 16QAM

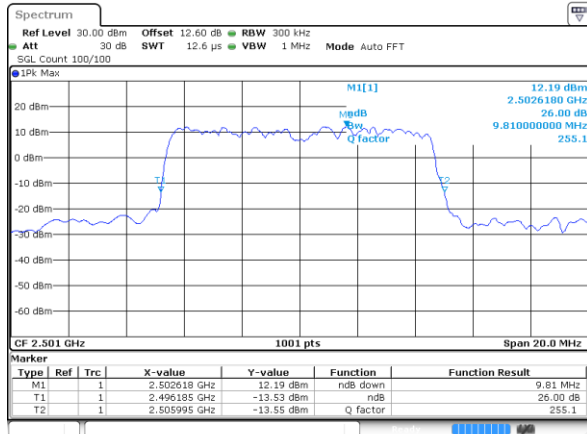


Date: 12 AUG 2020 04:33:00

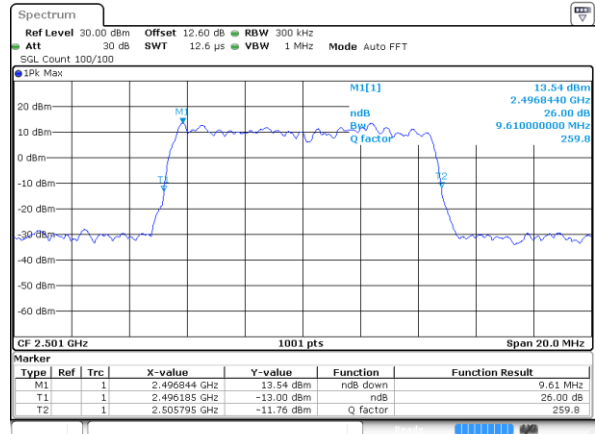


LTE Band 41

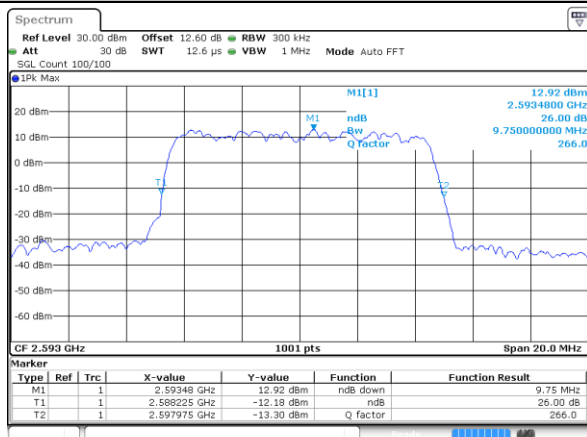
Lowest Channel / 10MHz / QPSK



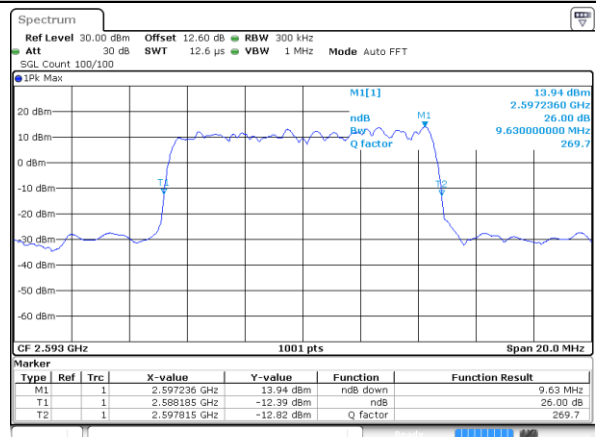
Lowest Channel / 10MHz / 16QAM



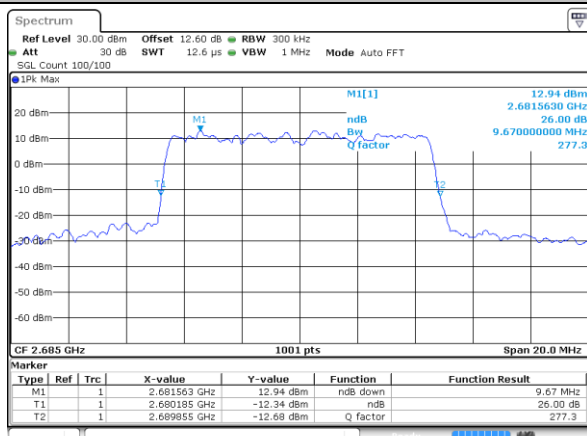
Middle Channel / 10MHz / QPSK



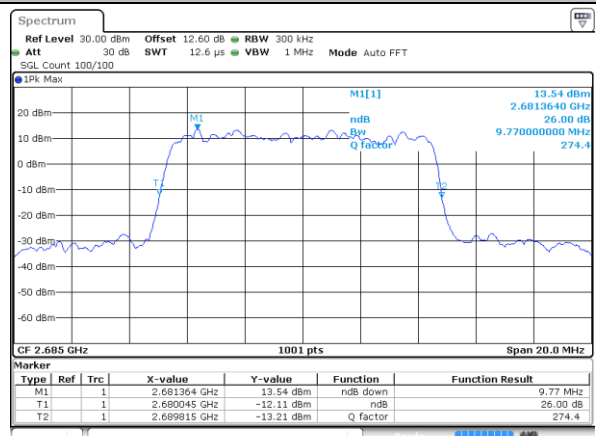
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



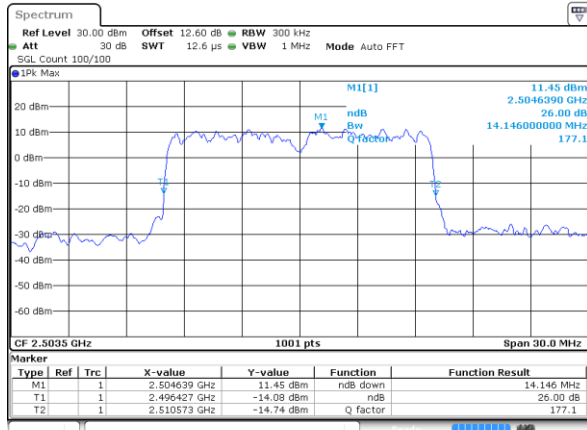
Highest Channel / 10MHz / 16QAM





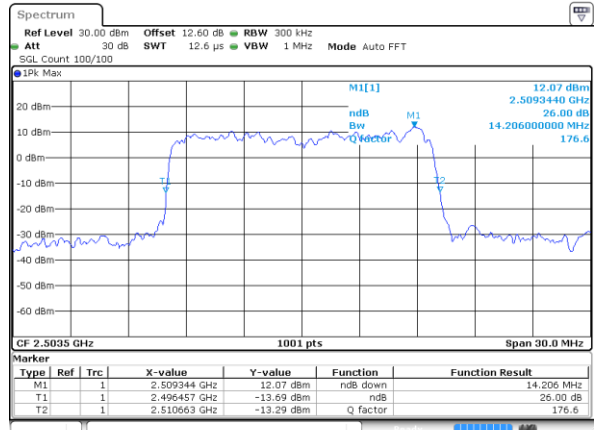
LTE Band 41

Lowest Channel / 15MHz / QPSK



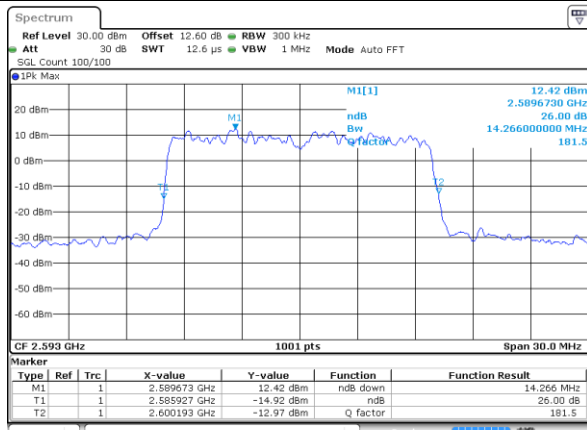
Date: 12 AUG 2020 04:36:00

Lowest Channel / 15MHz / 16QAM



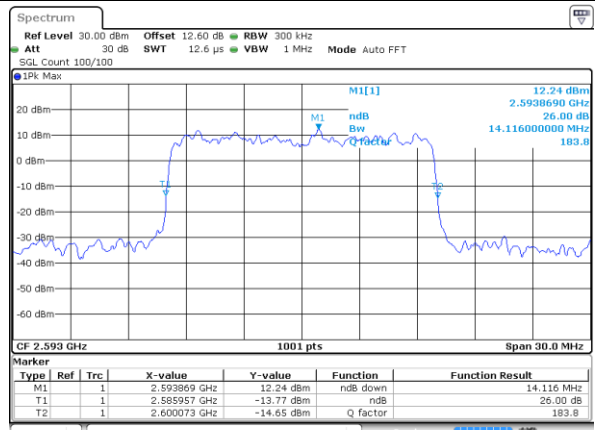
Date: 12 AUG 2020 04:36:12

Middle Channel / 15MHz / QPSK



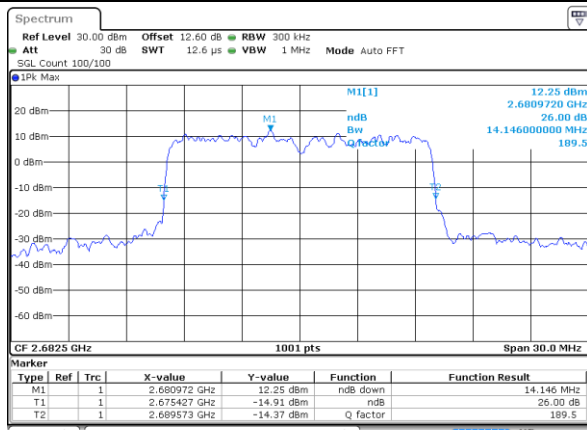
Date: 12 AUG 2020 04:36:47

Middle Channel / 15MHz / 16QAM



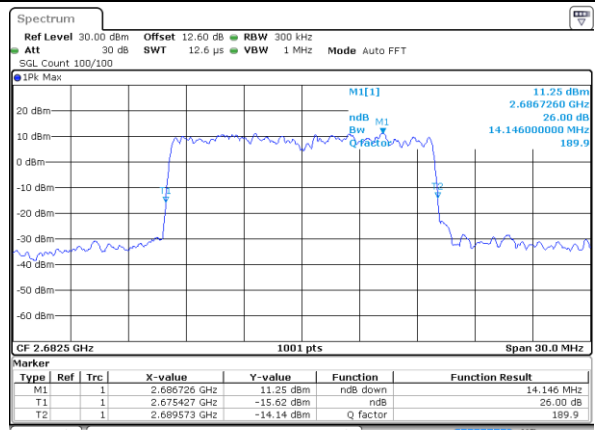
Date: 12 AUG 2020 04:36:58

Highest Channel / 15MHz / QPSK



Date: 12 AUG 2020 04:37:34

Highest Channel / 15MHz / 16QAM

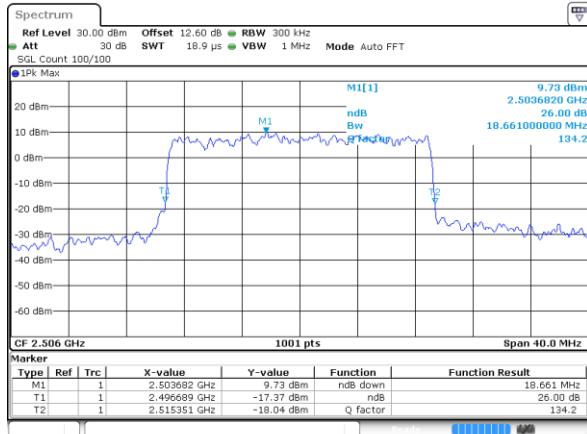


Date: 12 AUG 2020 04:37:46

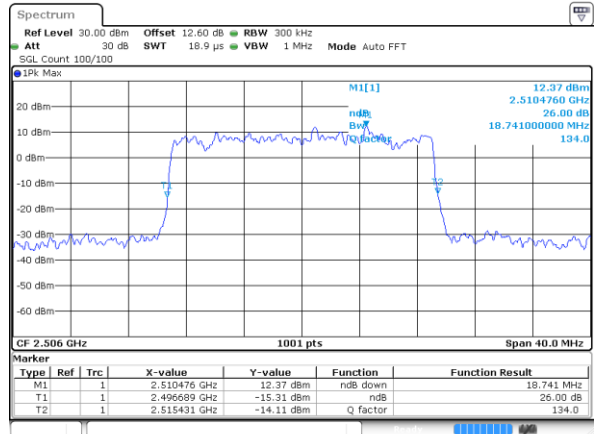


LTE Band 41

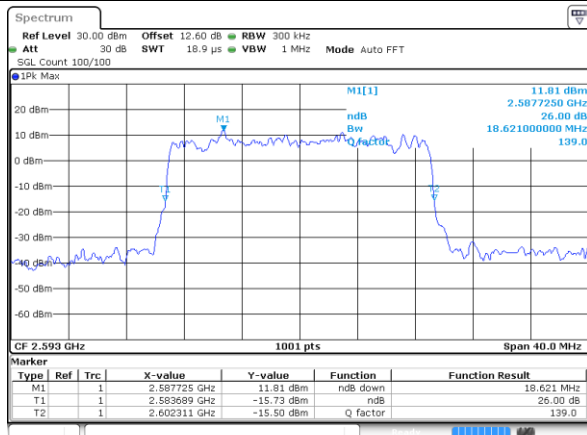
Lowest Channel / 20MHz / QPSK



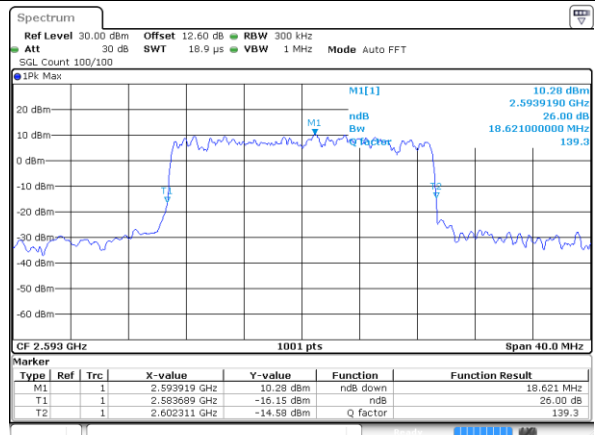
Lowest Channel / 20MHz / 16QAM



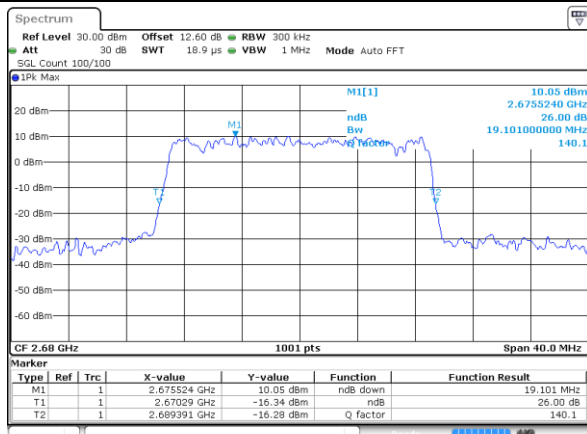
Middle Channel / 20MHz / QPSK



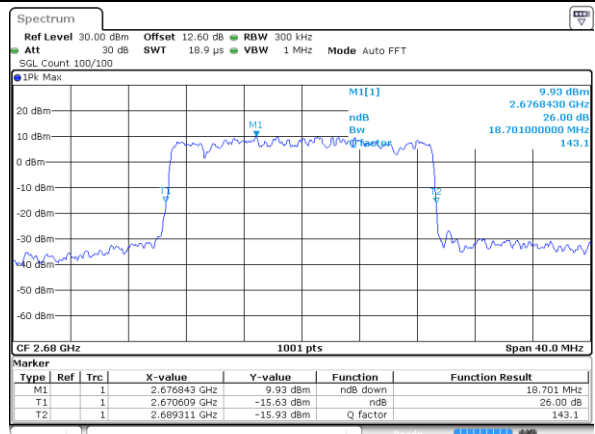
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



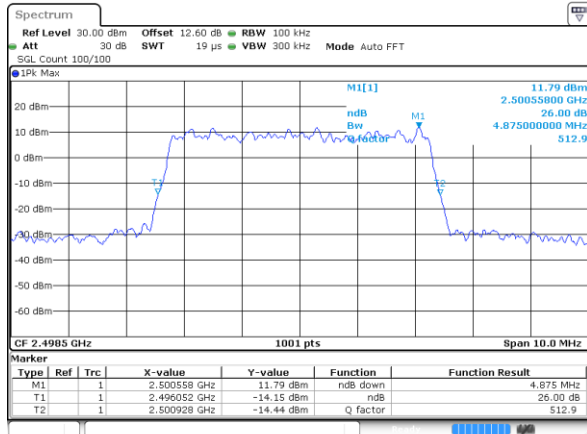
Highest Channel / 20MHz / 16QAM





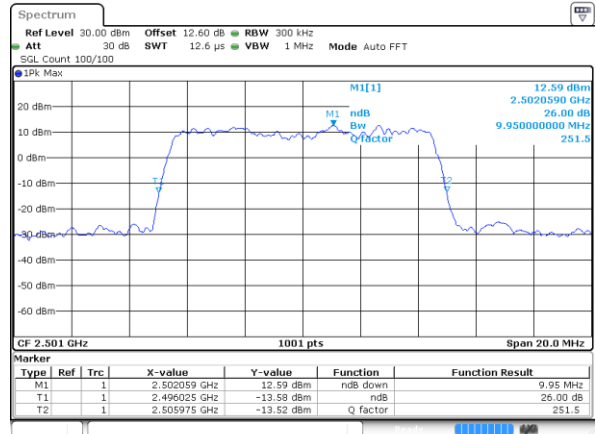
LTE Band 41

Lowest Channel / 5MHz / 64QAM



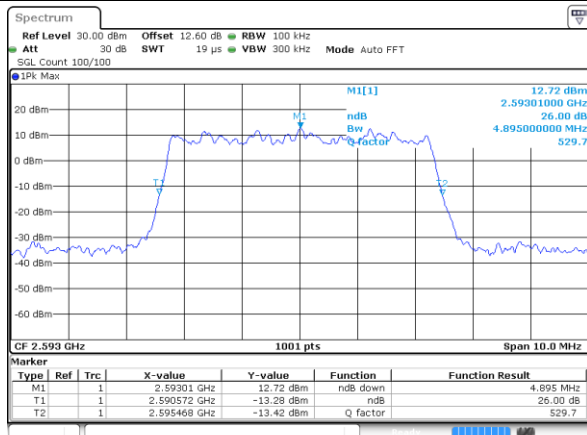
Date: 12 AUG 2020 04:40:35

Lowest Channel / 10MHz / 64QAM



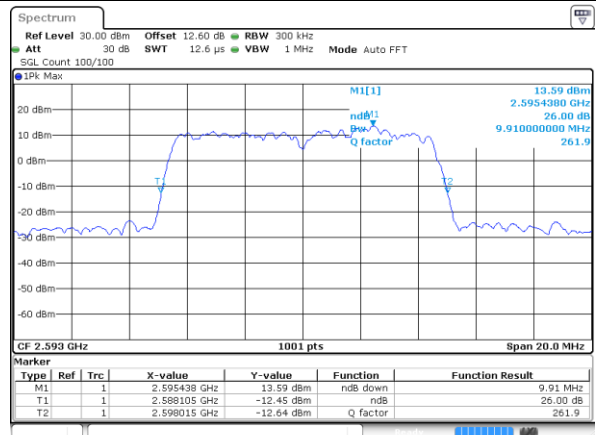
Date: 12 AUG 2020 04:41:46

Middle Channel / 5MHz / 64QAM



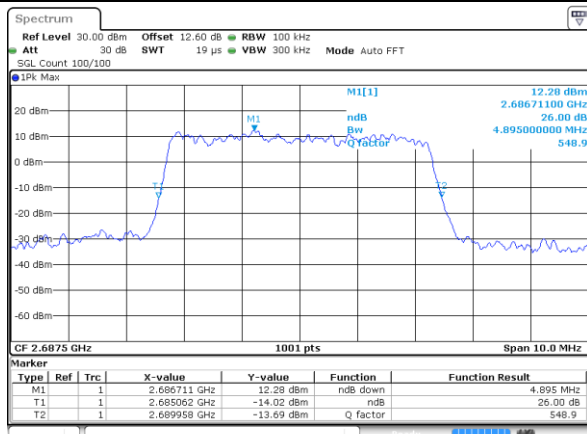
Date: 12 AUG 2020 04:40:58

Middle Channel / 10MHz / 64QAM



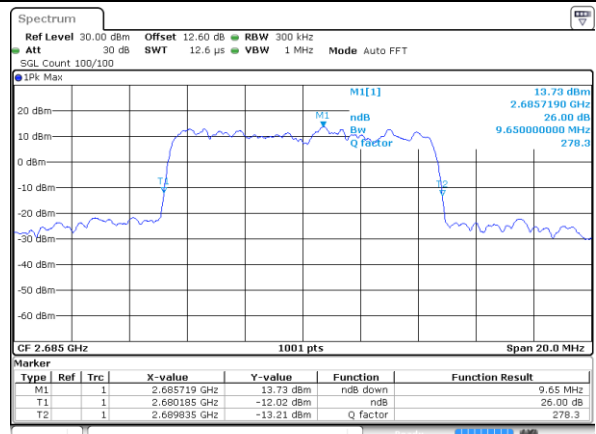
Date: 12 AUG 2020 04:42:09

Highest Channel / 5MHz / 64QAM



Date: 12 AUG 2020 04:41:21

Highest Channel / 10MHz / 64QAM

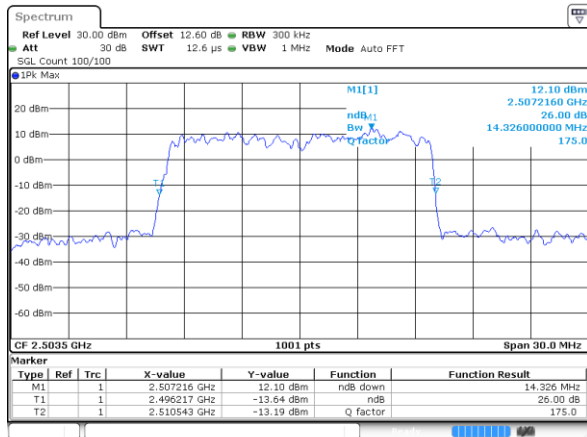


Date: 12 AUG 2020 04:42:33



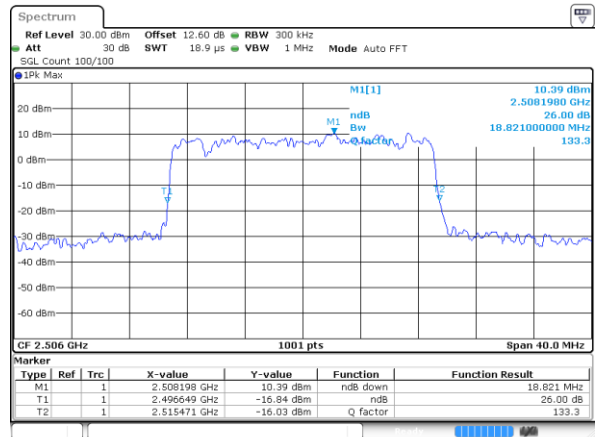
LTE Band 41

Lowest Channel / 15MHz / 64QAM



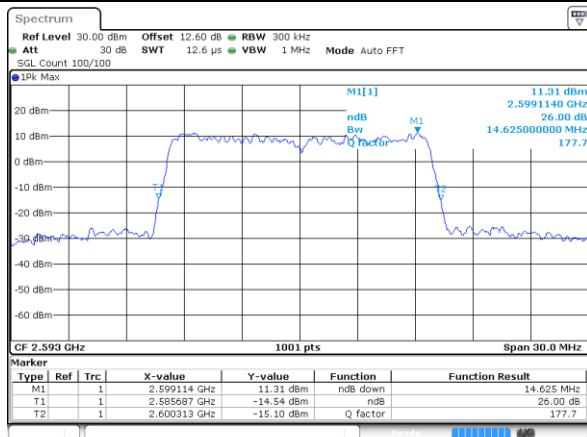
Date: 12 AUG 2020 04:42:58

Lowest Channel / 20MHz / 64QAM



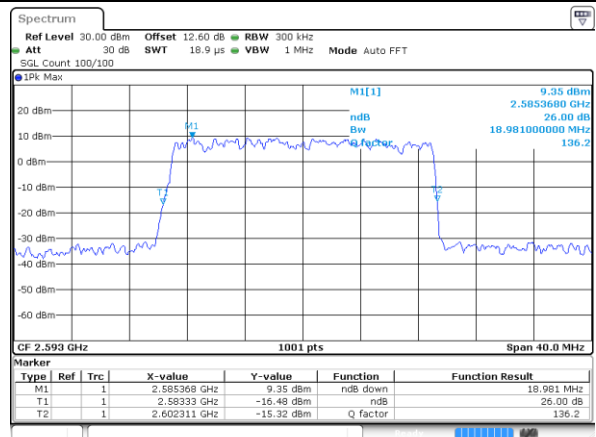
Date: 12 AUG 2020 04:44:09

Middle Channel / 15MHz / 64QAM



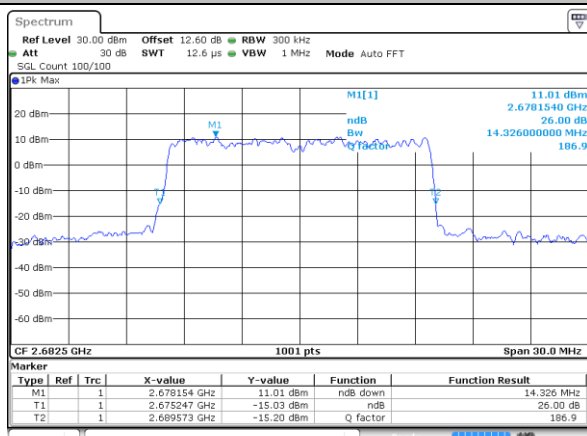
Date: 12 AUG 2020 04:43:21

Middle Channel / 20MHz / 64QAM



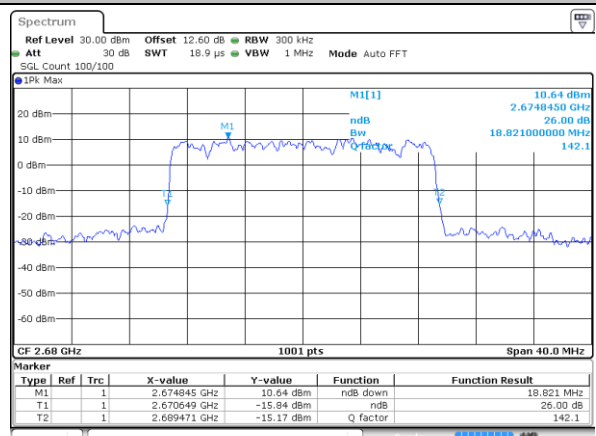
Date: 12 AUG 2020 04:44:32

Highest Channel / 15MHz / 64QAM



Date: 12 AUG 2020 04:43:44

Highest Channel / 20MHz / 64QAM



Date: 12 AUG 2020 04:44:56

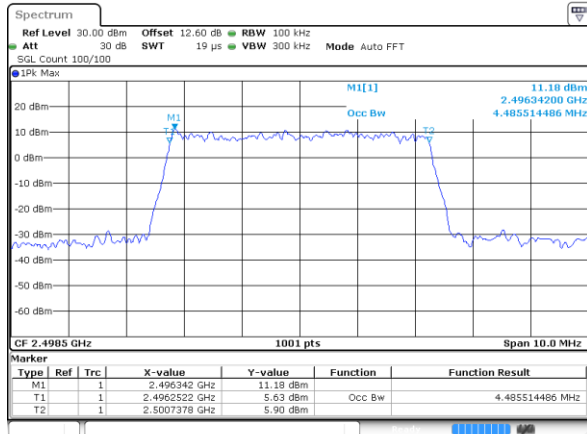
**Occupied Bandwidth**

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	-	-	-	-	4.49	4.49	8.97	8.99	13.43	13.46	17.86	17.86
Middle CH	-	-	-	-	4.47	4.50	9.03	9.01	13.43	13.46	17.90	17.90
Highest CH	-	-	-	-	4.50	4.49	9.13	9.07	13.37	13.49	17.86	17.90
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.03	-	13.46	-	17.90	-
Middle CH	-	-	-	-	4.49	-	8.97	-	13.40	-	17.90	-
Highest CH	-	-	-	-	4.50	-	9.03	-	13.37	-	17.98	-

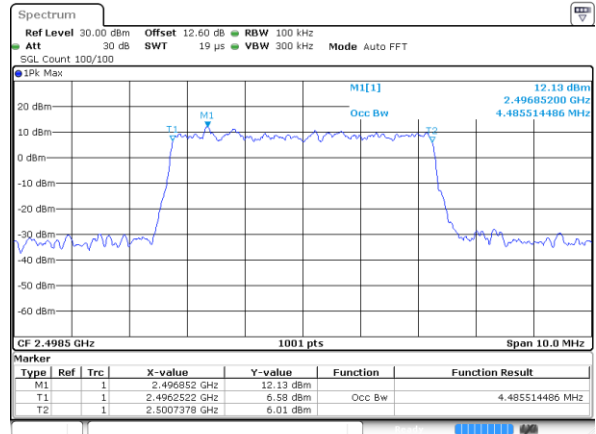


LTE Band 41

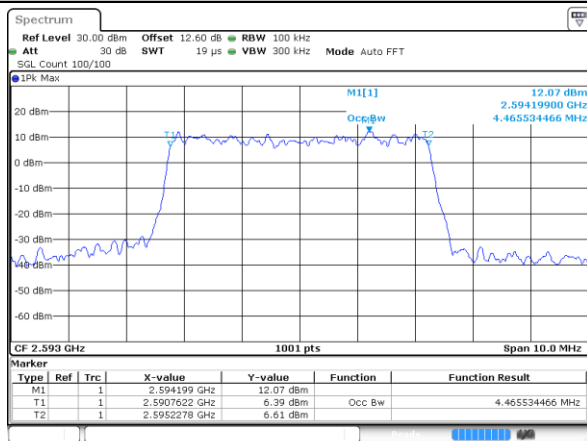
Lowest Channel / 5MHz / QPSK



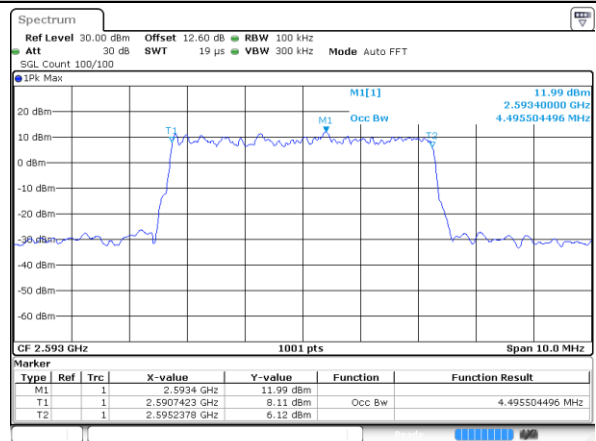
Lowest Channel / 5MHz / 16QAM



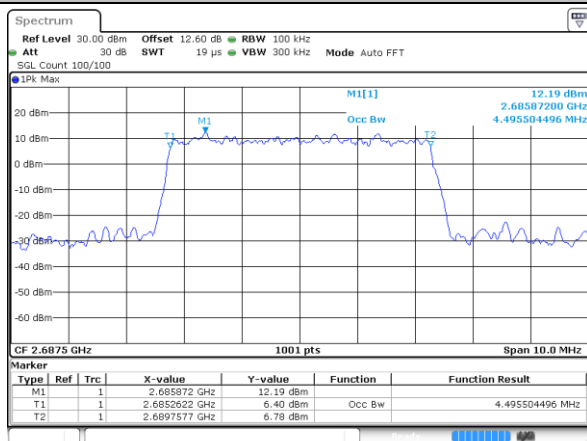
Middle Channel / 5MHz / QPSK



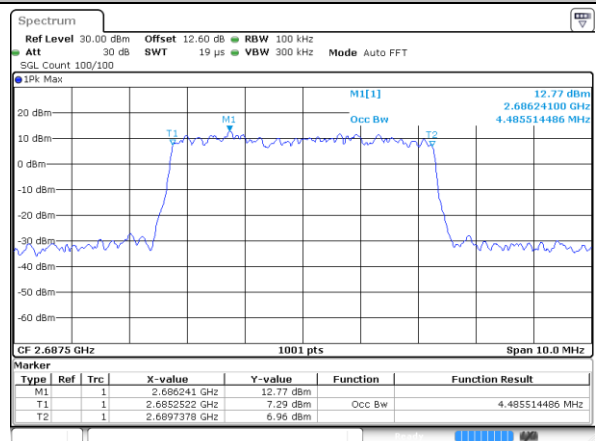
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



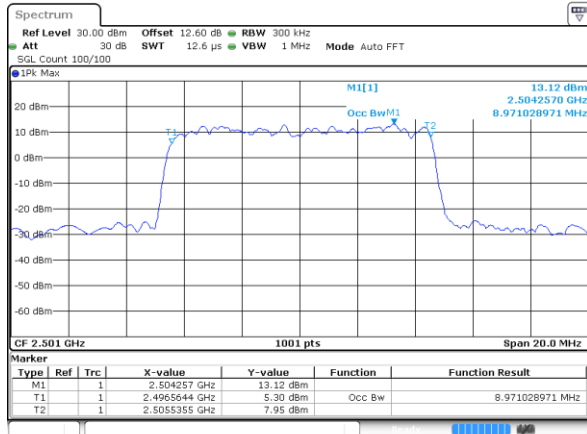
Highest Channel / 5MHz / 16QAM



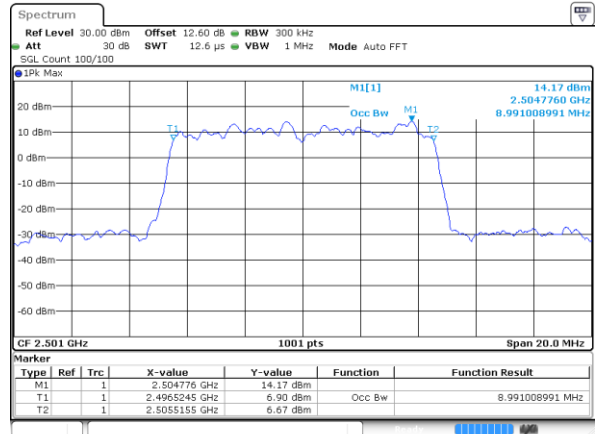


LTE Band 41

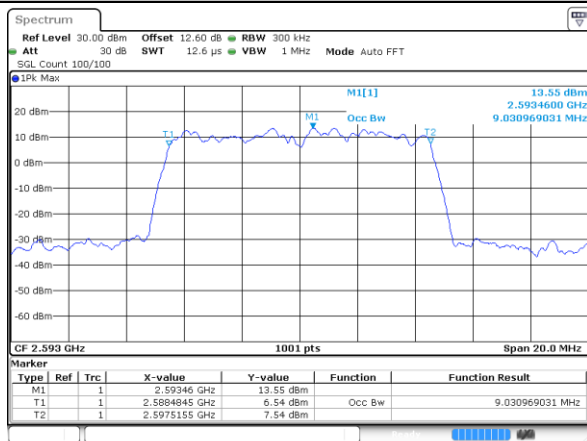
Lowest Channel / 10MHz / QPSK



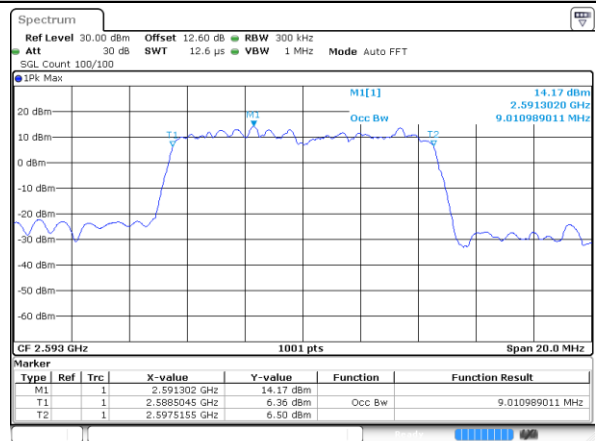
Lowest Channel / 10MHz / 16QAM



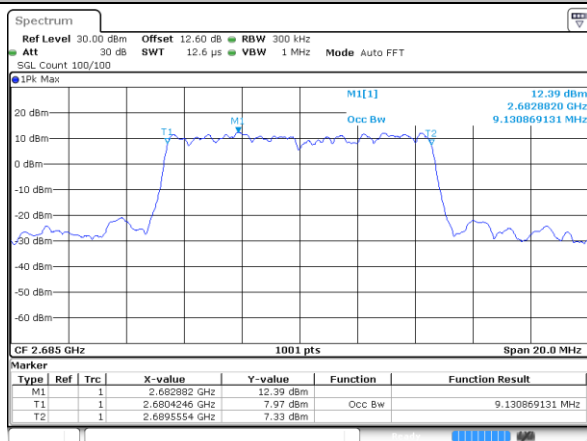
Middle Channel / 10MHz / QPSK



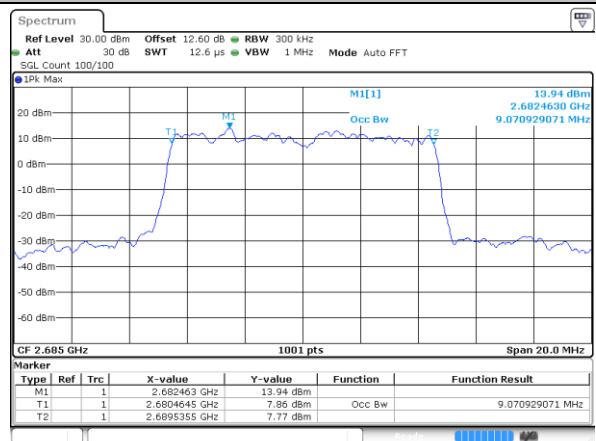
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



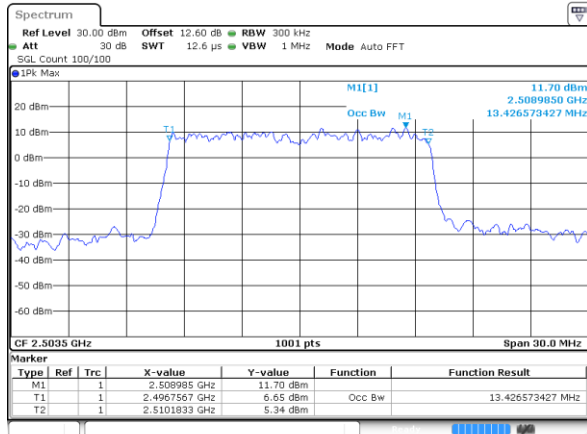
Highest Channel / 10MHz / 16QAM



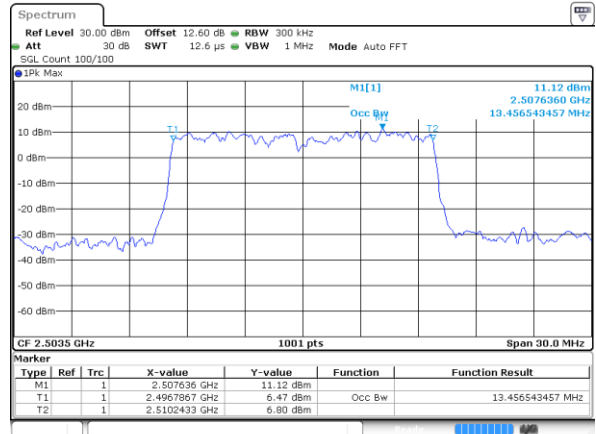


LTE Band 41

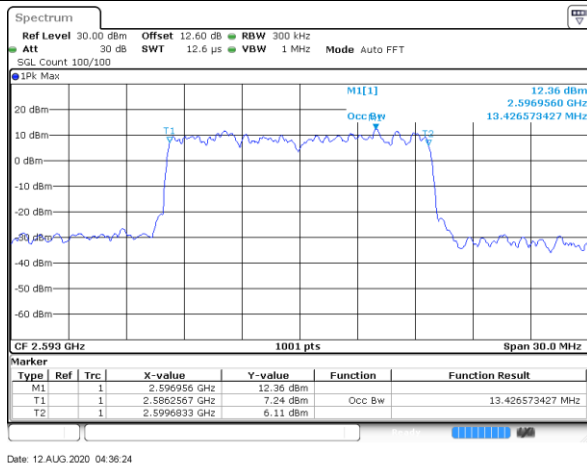
Lowest Channel / 15MHz / QPSK



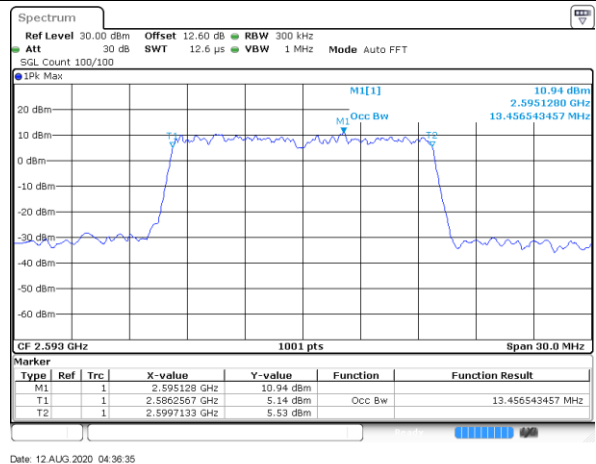
Lowest Channel / 15MHz / 16QAM



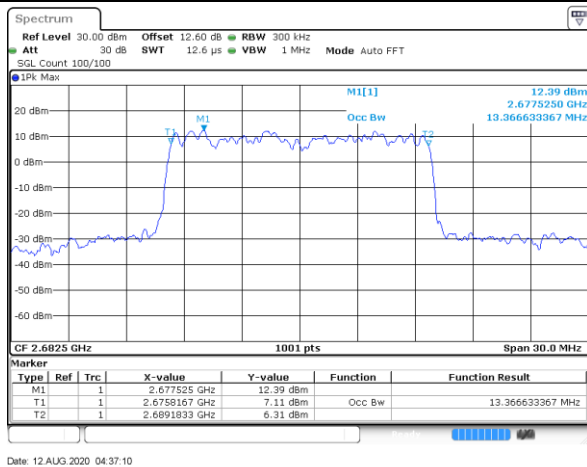
Middle Channel / 15MHz / QPSK



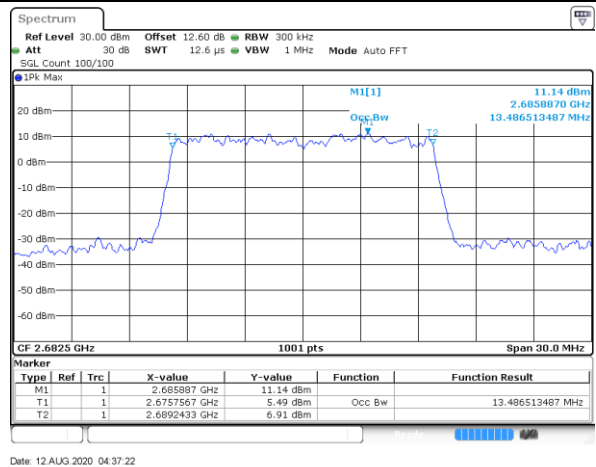
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



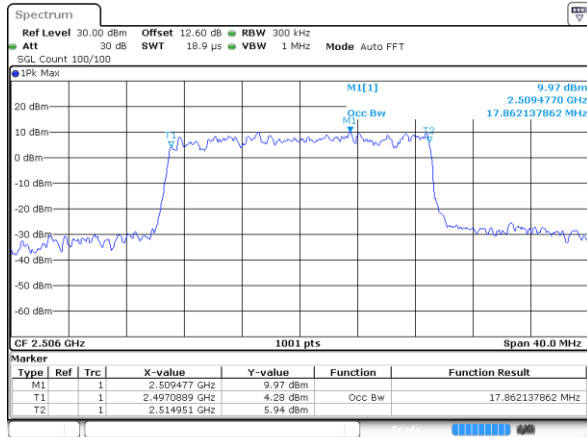
Highest Channel / 15MHz / 16QAM



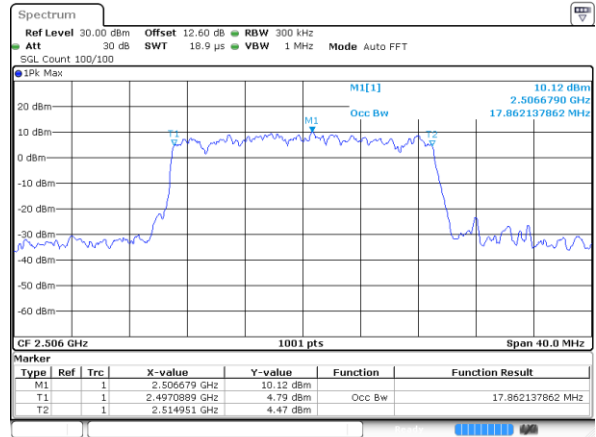


LTE Band 41

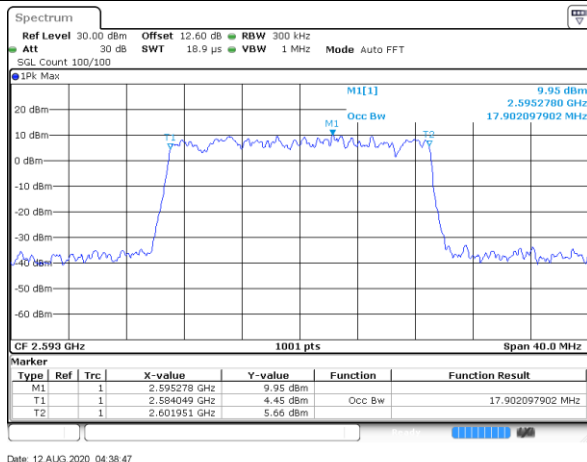
Lowest Channel / 20MHz / QPSK



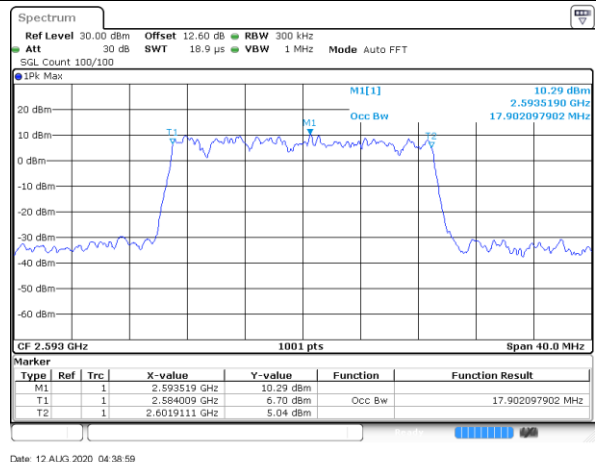
Lowest Channel / 20MHz / 16QAM



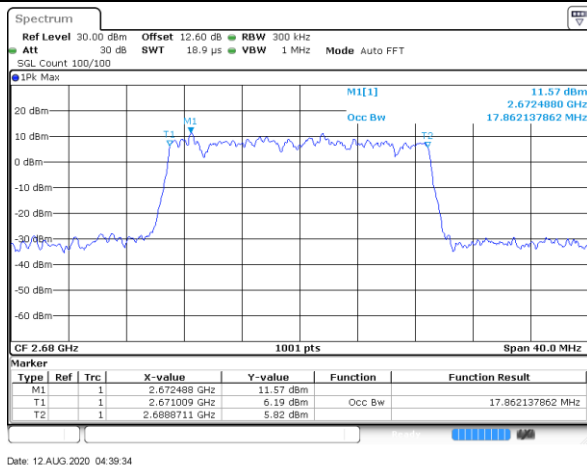
Middle Channel / 20MHz / QPSK



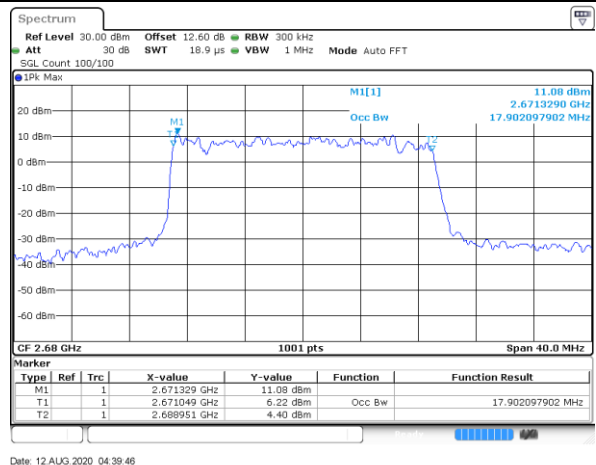
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



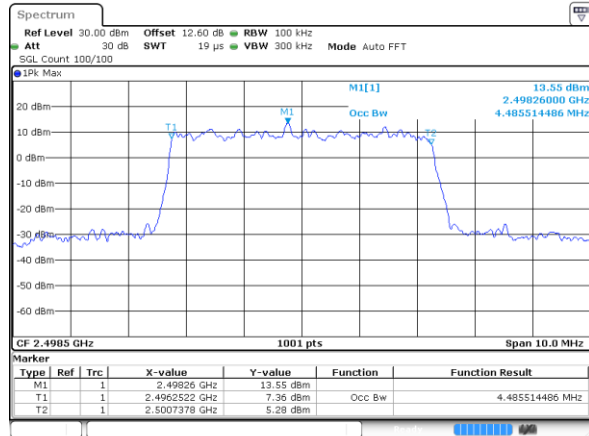
Highest Channel / 20MHz / 16QAM



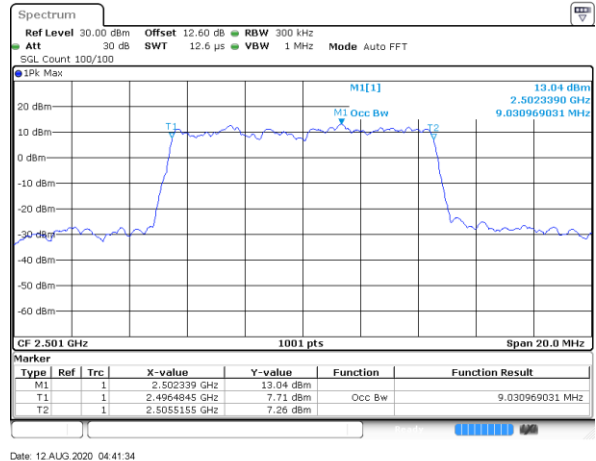


LTE Band 41

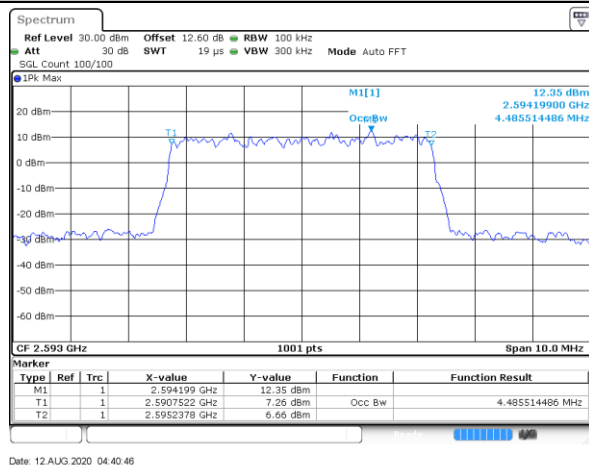
Lowest Channel / 5MHz / 64QAM



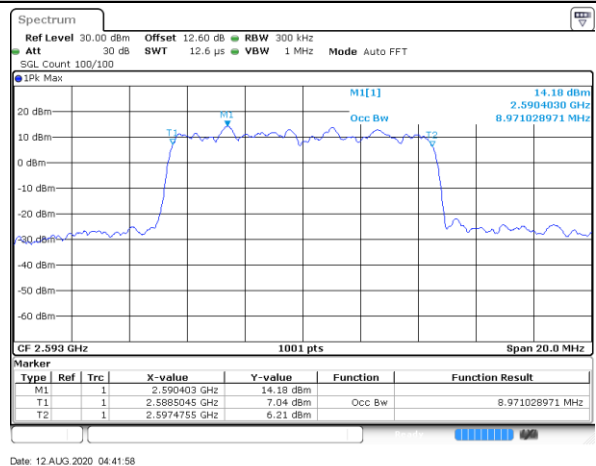
Lowest Channel / 10MHz / 64QAM



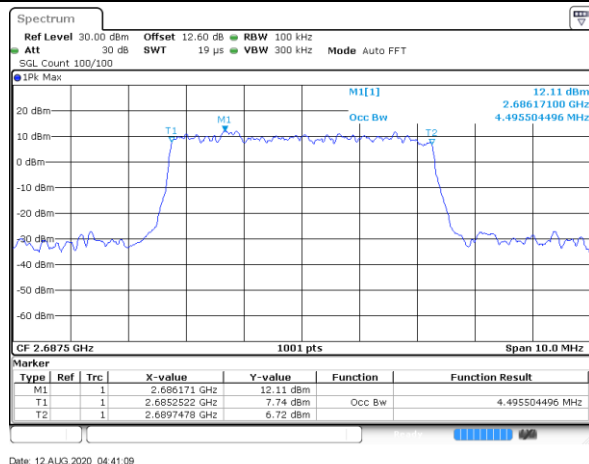
Middle Channel / 5MHz / 64QAM



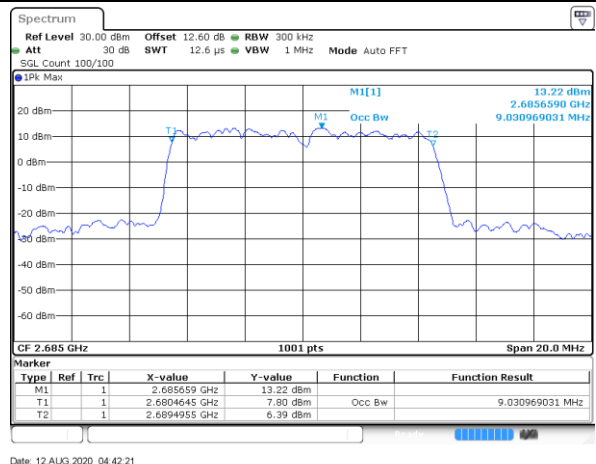
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



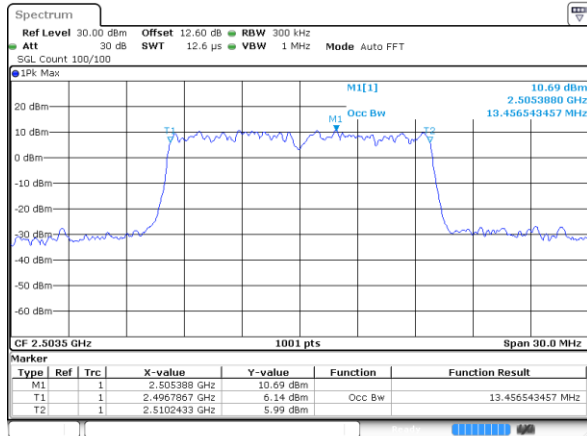
Highest Channel / 10MHz / 64QAM





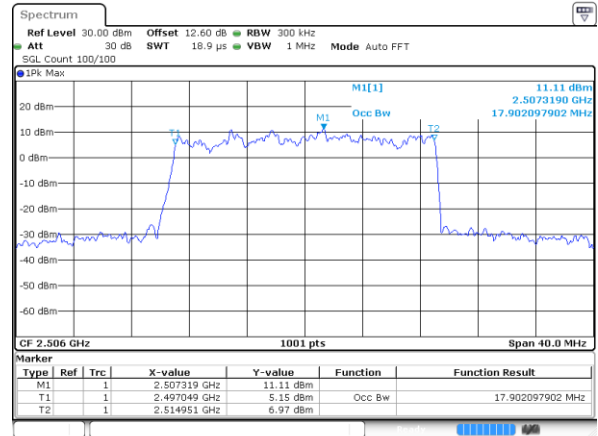
LTE Band 41

Lowest Channel / 15MHz / 64QAM



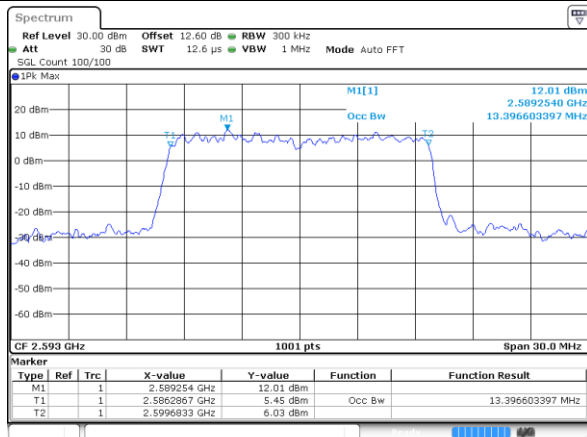
Date: 12 AUG 2020 04:42:46

Lowest Channel / 20MHz / 64QAM



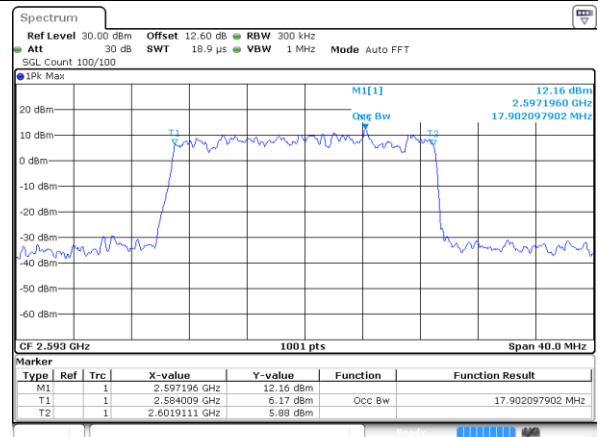
Date: 12 AUG 2020 04:43:57

Middle Channel / 15MHz / 64QAM



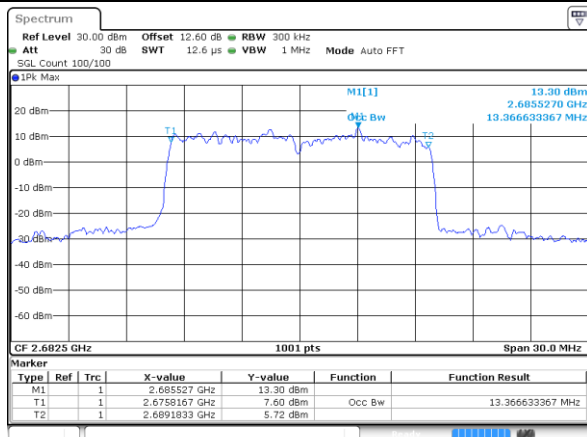
Date: 12 AUG 2020 04:43:09

Middle Channel / 20MHz / 64QAM



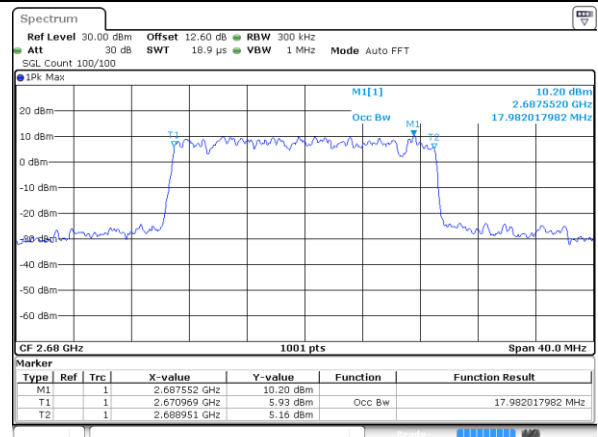
Date: 12 AUG 2020 04:44:21

Highest Channel / 15MHz / 64QAM

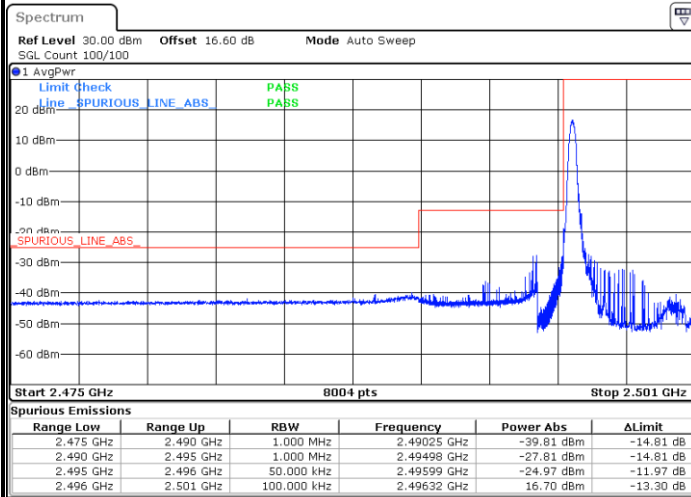
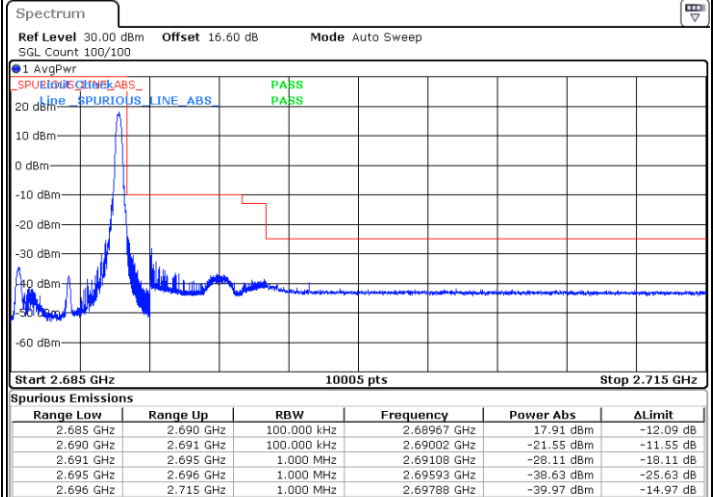
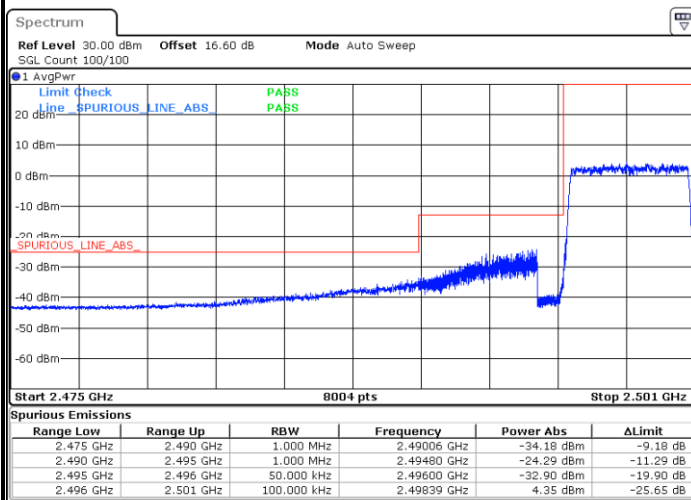
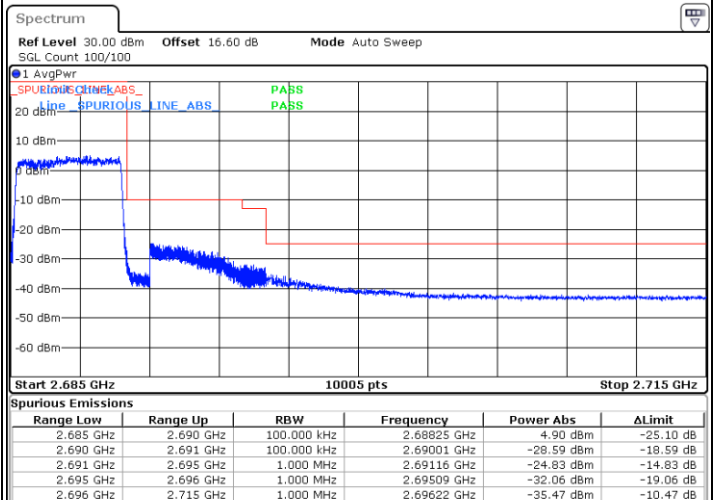


Date: 12 AUG 2020 04:43:32

Highest Channel / 20MHz / 64QAM



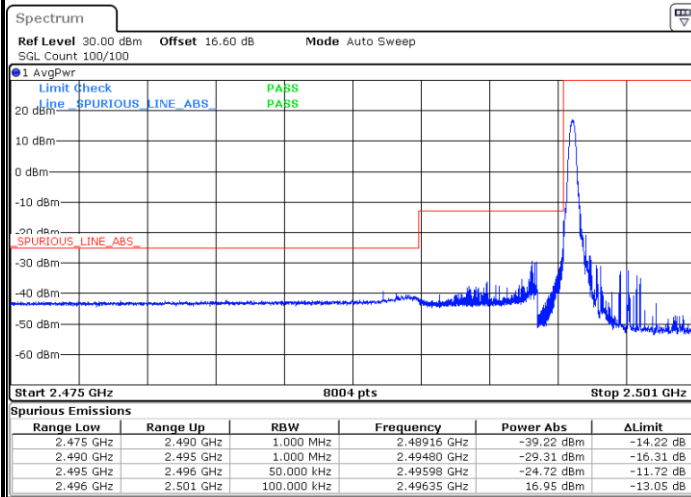
Date: 12 AUG 2020 04:44:44

**Conducted Band Edge****LTE Band 41 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



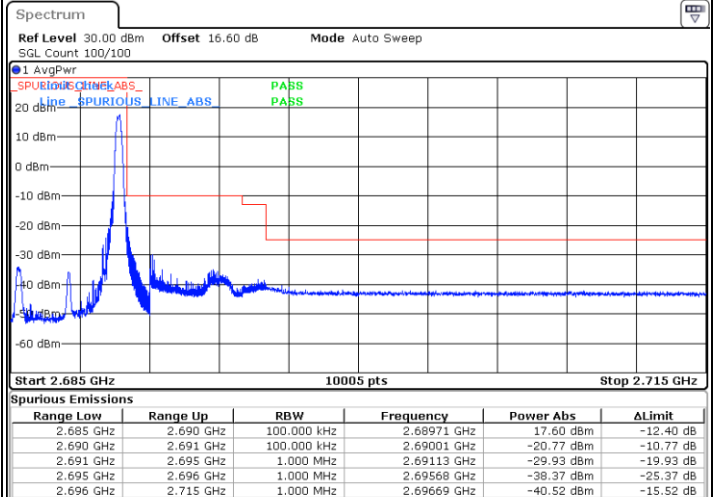
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



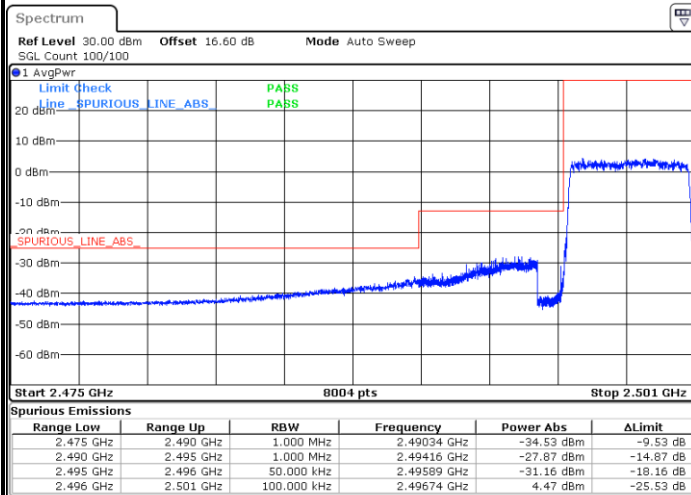
Date: 12 AUG 2020 02:35:24

Highest Band Edge / 1 RB



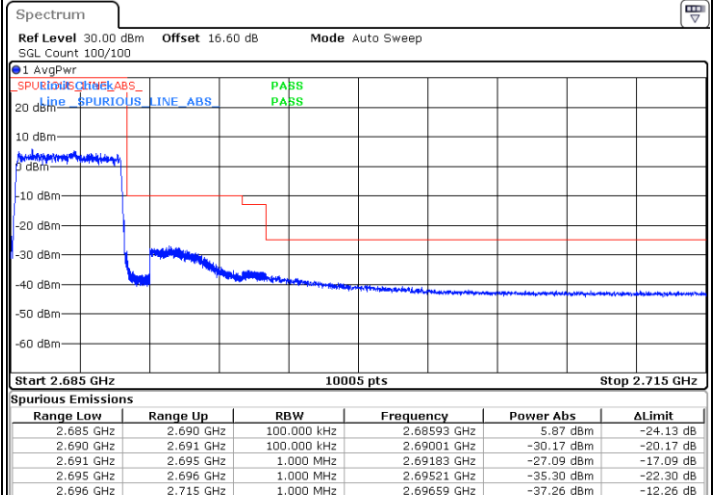
Date: 12 AUG 2020 02:39:26

Lowest Band Edge / Full RB



Date: 12 AUG 2020 02:37:25

Highest Band Edge / Full RB

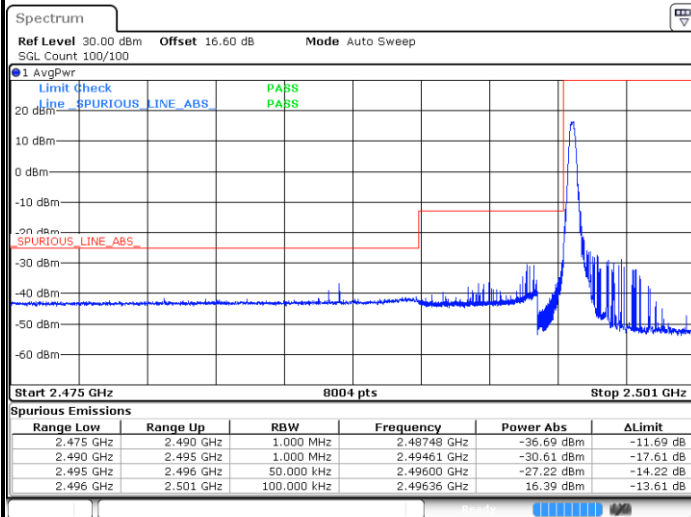


Date: 12 AUG 2020 02:41:28

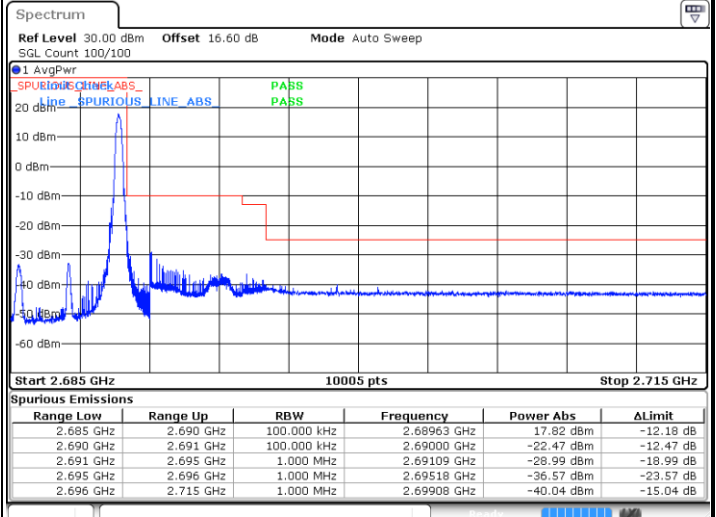


LTE Band 41 / 5MHz / 64QAM

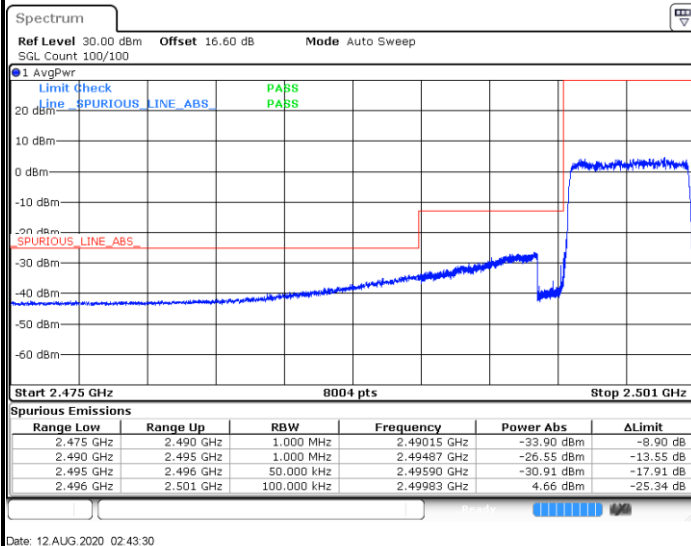
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

