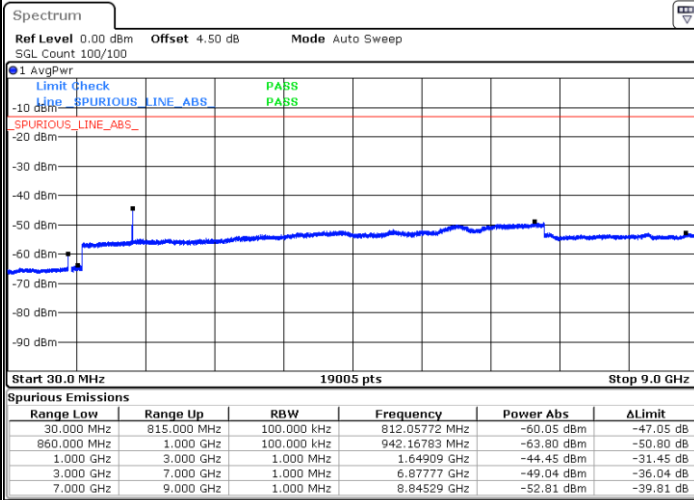




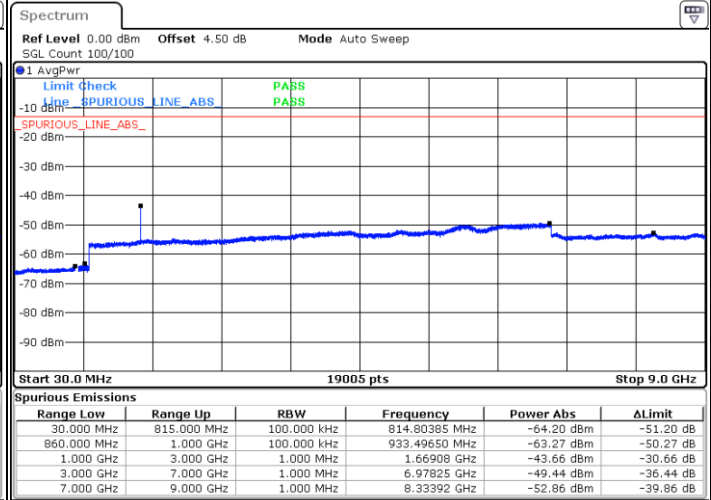
LTE Band 5 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

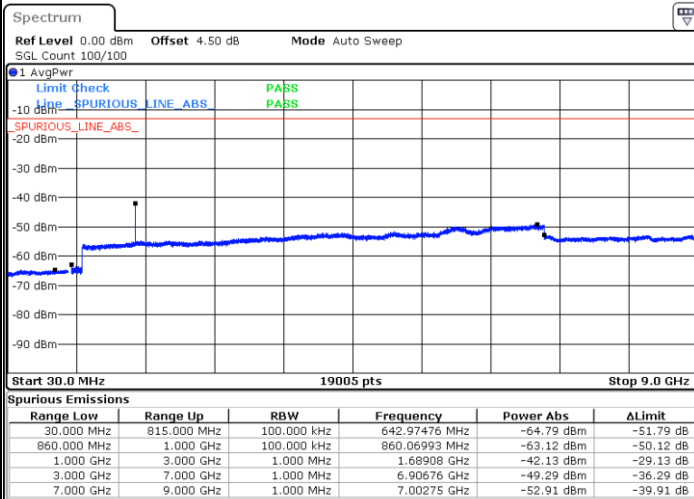


Date: 24 JUL 2020 06:38:24



Date: 24 JUL 2020 06:39:39

Highest Channel / 64QAM

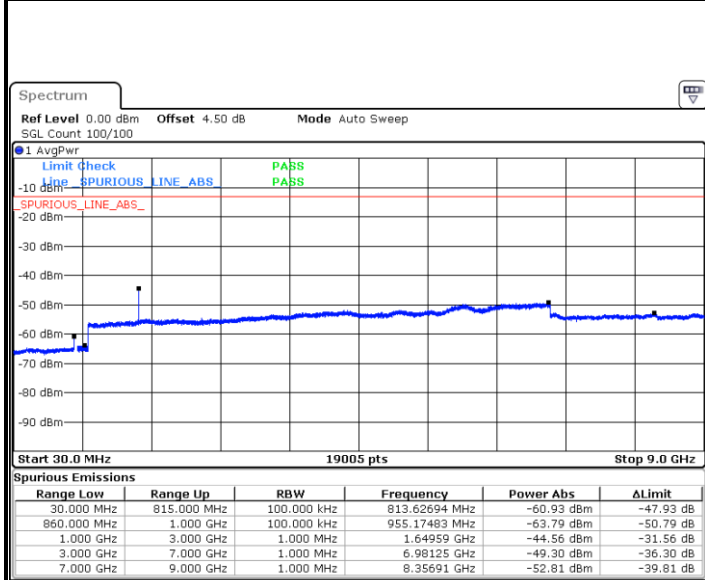


Date: 24 JUL 2020 06:49:44



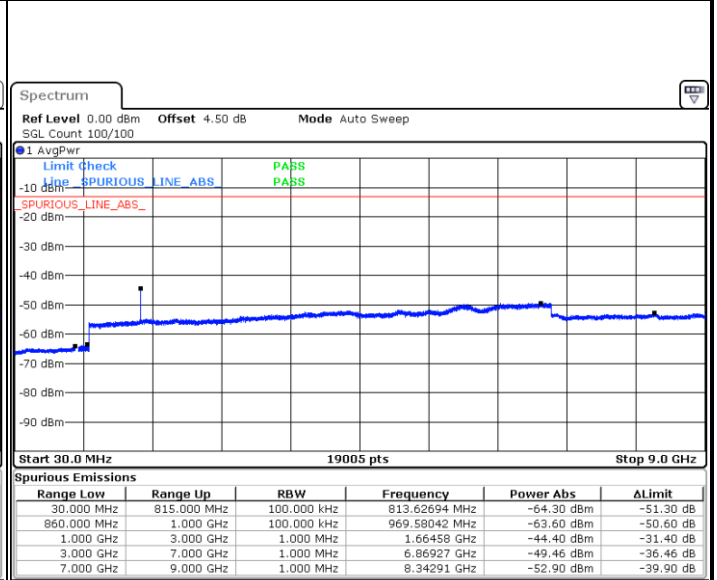
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



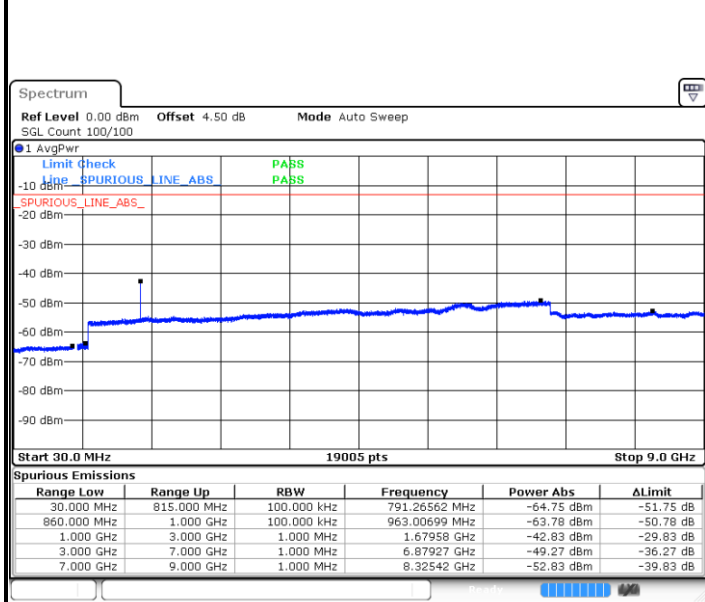
Date: 24 JUL 2020 06:55:54

Middle Channel / 64QAM



Date: 24 JUL 2020 07:03:10

Highest Channel / 64QAM



Date: 24 JUL 2020 07:10:30



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 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	4.09	4.49	5.97	6.67	PASS
Middle CH	4.20	4.96	6.00	6.26	
Highest CH	4.29	5.68	6.72	6.32	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.91	6.99	PASS		
Middle CH	5.71	6.20			
Highest CH	6.20	6.99			



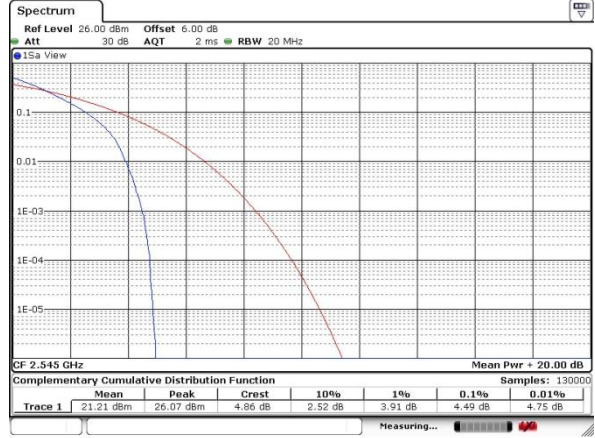
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



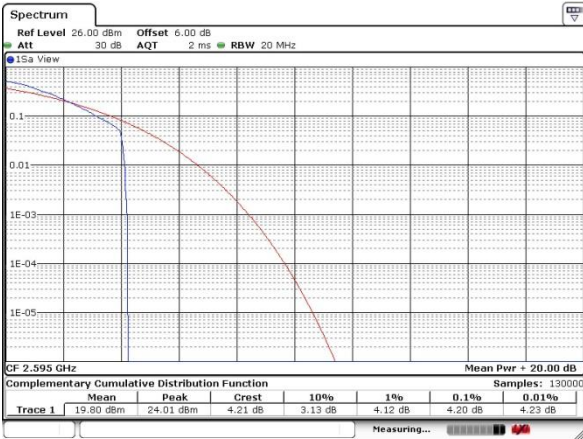
Date: 28 JUL 2020 10:39:14

Lowest Channel / Full RB



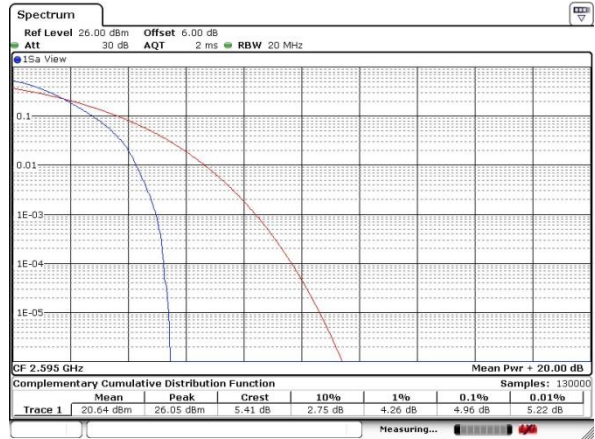
Date: 28 JUL 2020 10:37:36

Middle Channel / 1RB



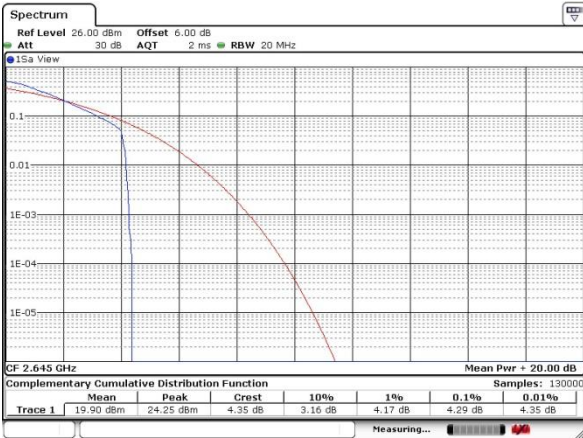
Date: 28 JUL 2020 10:35:23

Middle Channel / Full RB



Date: 28 JUL 2020 10:37:04

Highest Channel / 1RB



Date: 28 JUL 2020 10:34:58

Highest Channel / Full RB

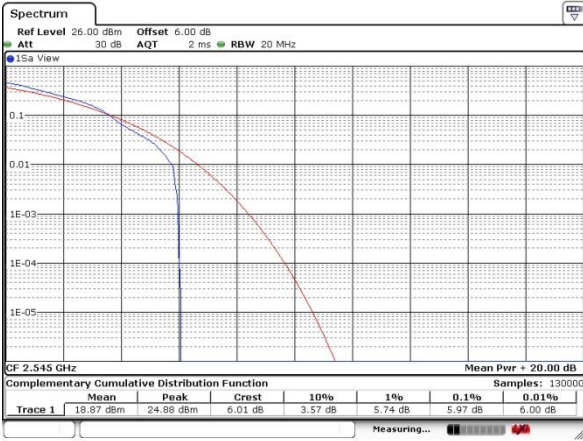


Date: 28 JUL 2020 10:33:07



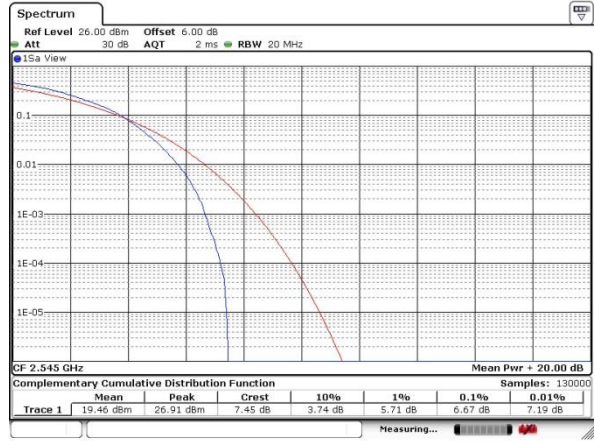
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



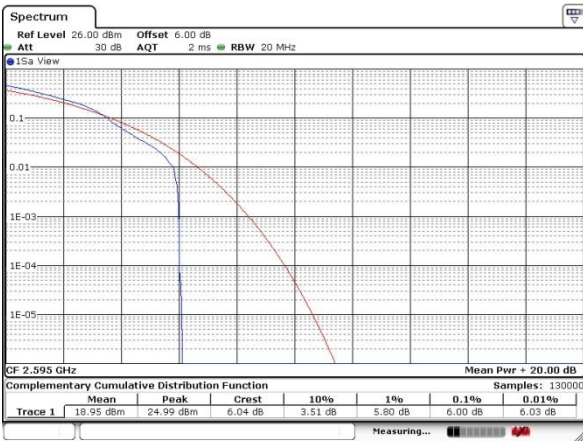
Date: 28 JUL 2020 10:38:57

Lowest Channel / Full RB



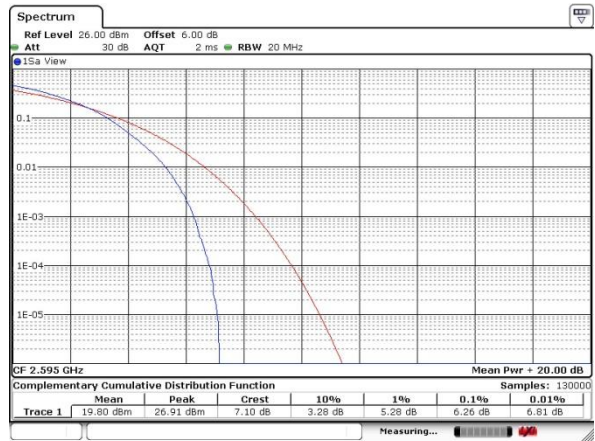
Date: 28 JUL 2020 10:38:03

Middle Channel / 1RB



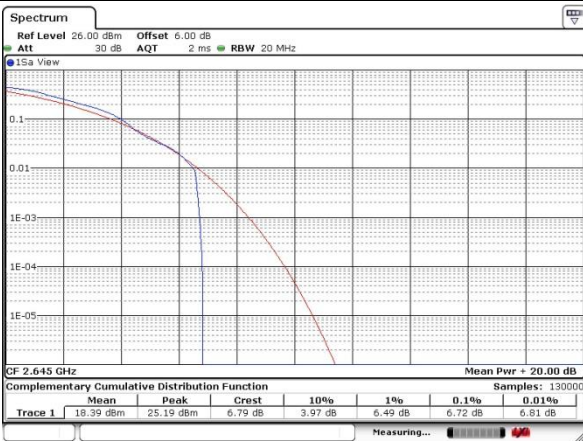
Date: 28 JUL 2020 10:35:55

Middle Channel / Full RB



Date: 28 JUL 2020 10:36:50

Highest Channel / 1RB



Date: 28 JUL 2020 10:34:36

Highest Channel / Full RB

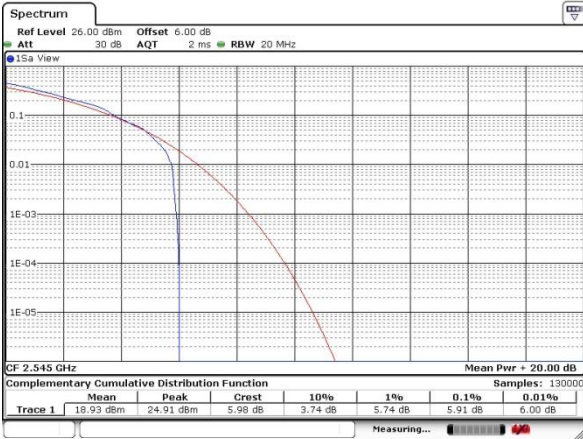


Date: 28 JUL 2020 10:33:43



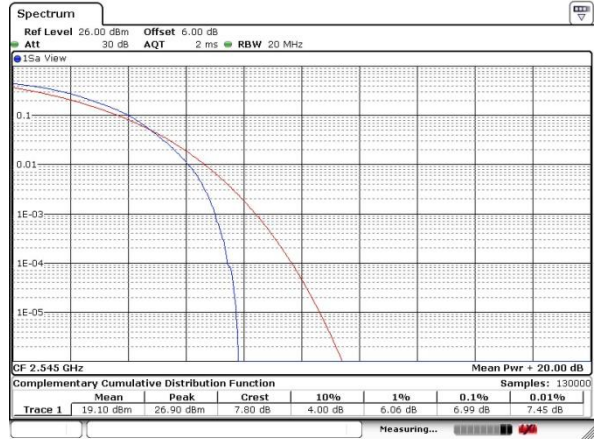
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



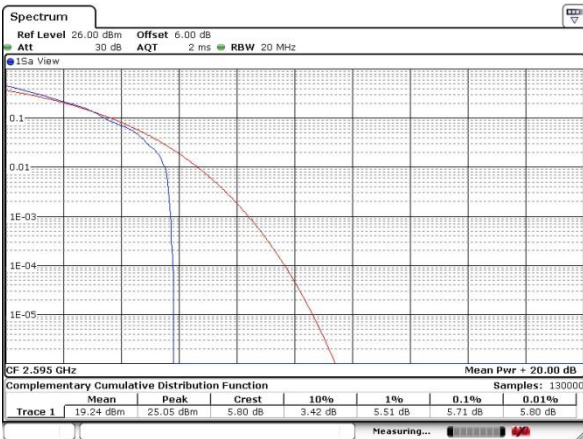
Date: 28 JUL 2020 10:38:34

Lowest Channel / Full RB



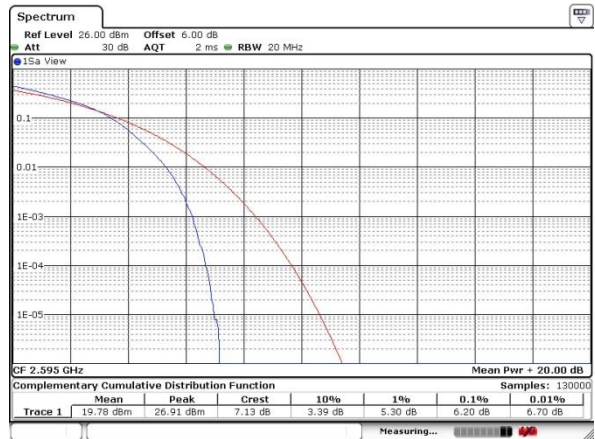
Date: 28 JUL 2020 10:38:18

Middle Channel / 1RB



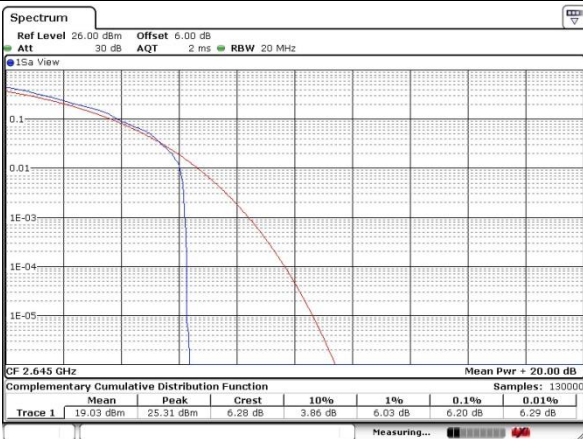
Date: 28 JUL 2020 10:36:03

Middle Channel / Full RB



Date: 28 JUL 2020 10:36:21

Highest Channel / 1RB



Date: 28 JUL 2020 10:34:04

Highest Channel / Full RB



Date: 28 JUL 2020 10:33:53



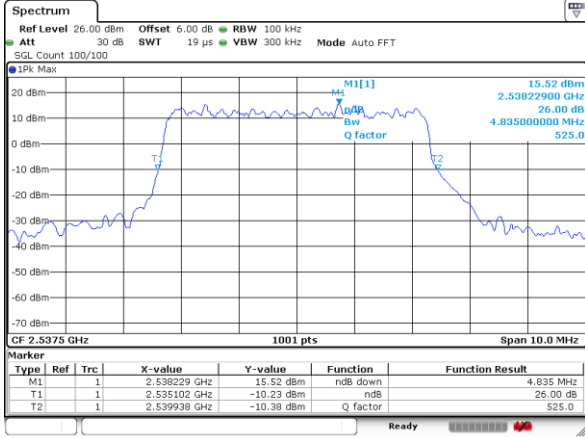
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.84	4.81	9.67	9.67	14.57	14.51	20.14	20.06	4.86	9.63	14.27	20.06
Middle CH	4.745	4.81	9.75	9.77	14.15	14.12	20.14	20.22	4.70	9.93	14.15	20.10
Highest CH	4.78	4.91	9.83	9.73	14.45	14.12	20.30	20.14	4.81	9.71	14.36	20.10



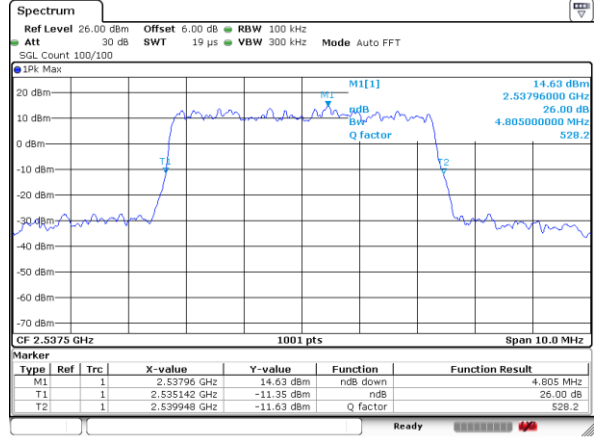
LTE Band 41

Lowest Channel / 5MHz / QPSK



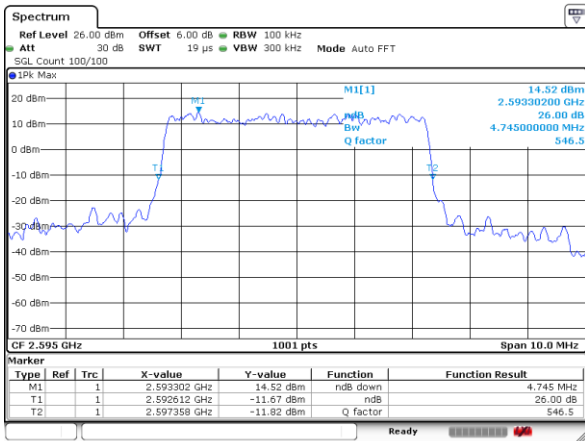
Date: 27_JUL_2020 16:28:00

Lowest Channel / 5MHz / 16QAM



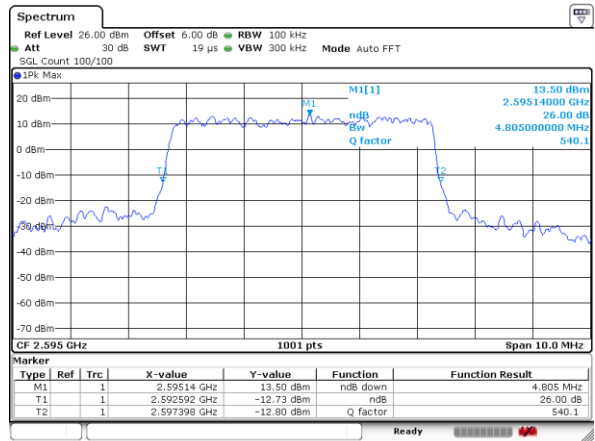
Date: 27_JUL_2020 16:28:17

Middle Channel / 5MHz / QPSK



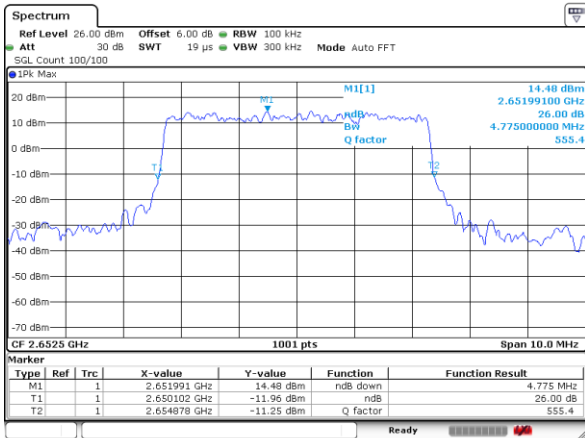
Date: 27_JUL_2020 16:27:32

Middle Channel / 5MHz / 16QAM



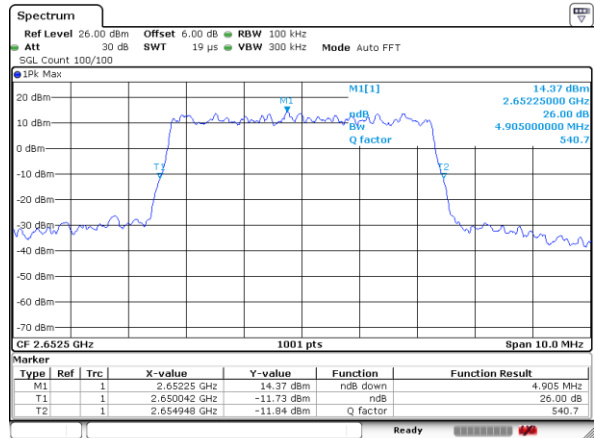
Date: 27_JUL_2020 16:27:12

Highest Channel / 5MHz / QPSK



Date: 27_JUL_2020 16:29:51

Highest Channel / 5MHz / 16QAM

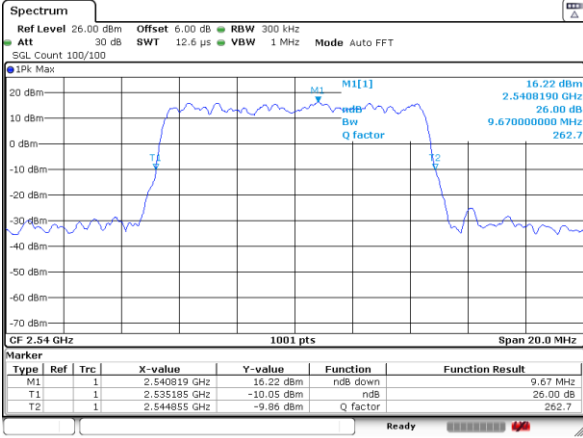


Date: 27_JUL_2020 16:29:37



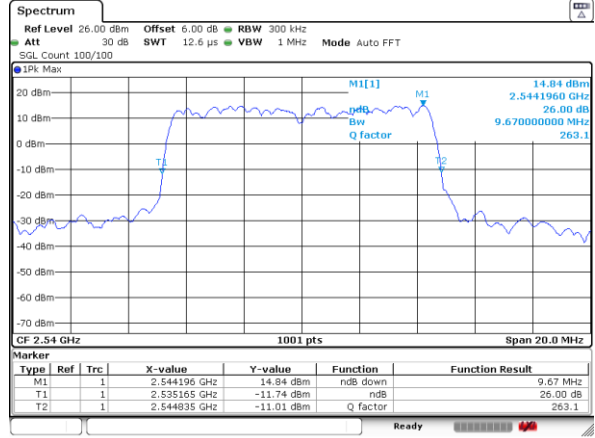
LTE Band 41

Lowest Channel / 10MHz / QPSK



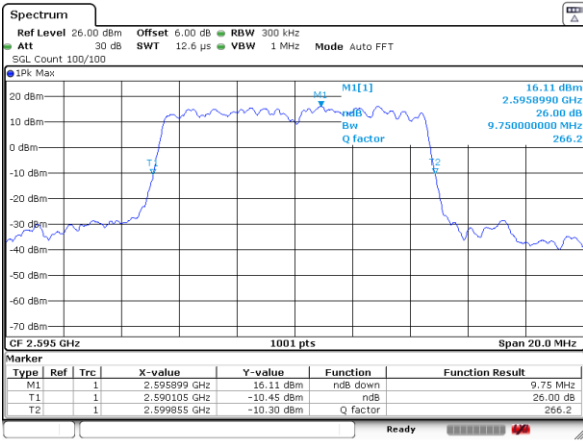
Date: 27_JUL_2020 20:27:26

Lowest Channel / 10MHz / 16QAM



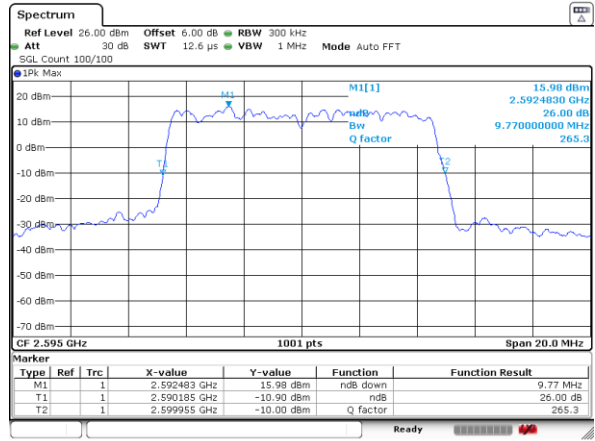
Date: 27_JUL_2020 20:27:13

Middle Channel / 10MHz / QPSK



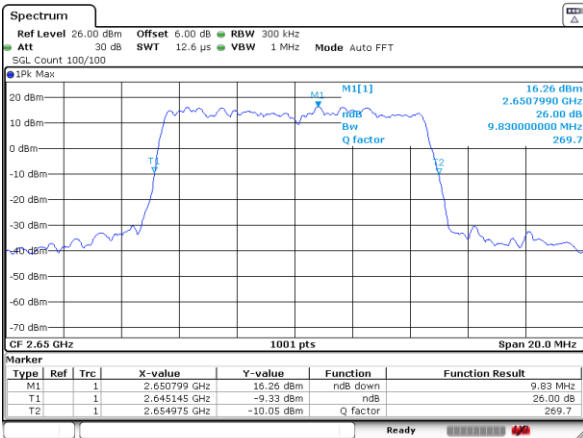
Date: 27_JUL_2020 20:26:00

Middle Channel / 10MHz / 16QAM



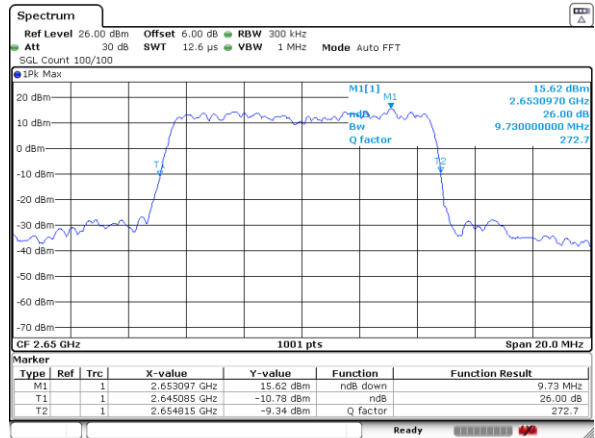
Date: 27_JUL_2020 20:26:13

Highest Channel / 10MHz / QPSK



Date: 27_JUL_2020 20:25:43

Highest Channel / 10MHz / 16QAM

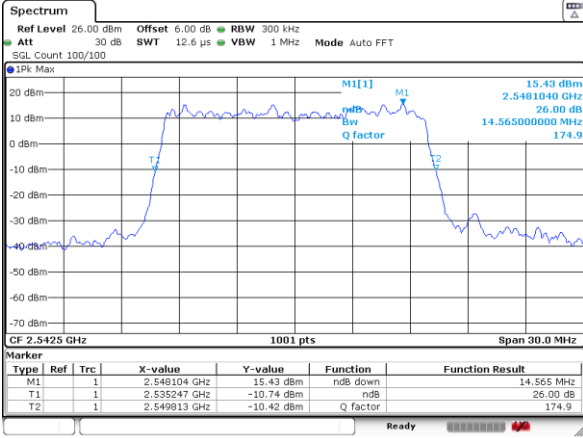


Date: 27_JUL_2020 20:25:23



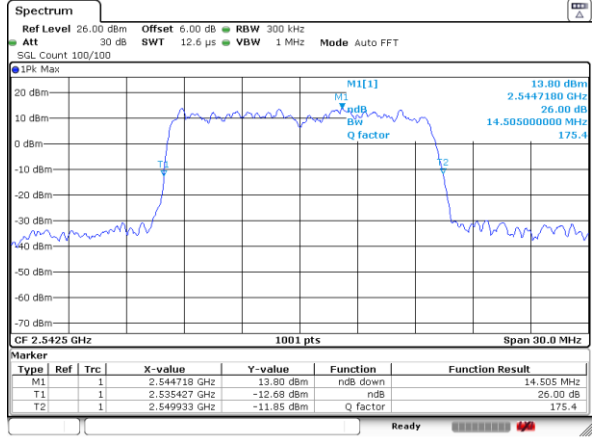
LTE Band 41

Lowest Channel / 15MHz / QPSK



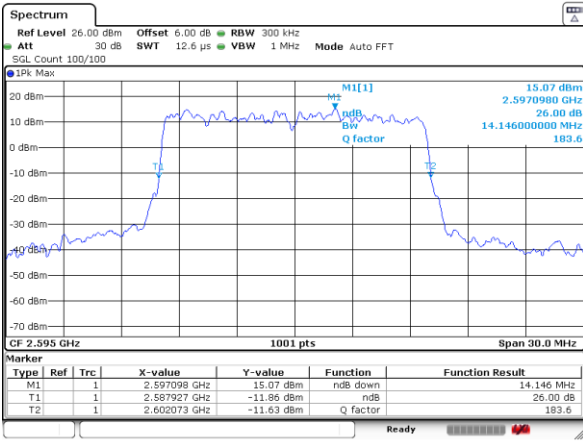
Date: 27_JUL_2020 20:15:43

Lowest Channel / 15MHz / 16QAM



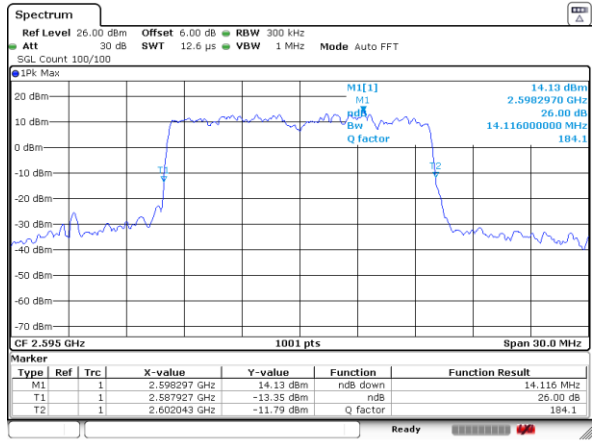
Date: 27_JUL_2020 20:15:34

Middle Channel / 15MHz / QPSK



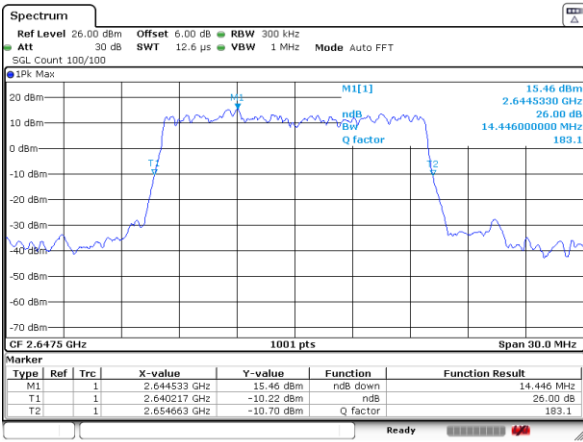
Date: 27_JUL_2020 20:17:07

Middle Channel / 15MHz / 16QAM



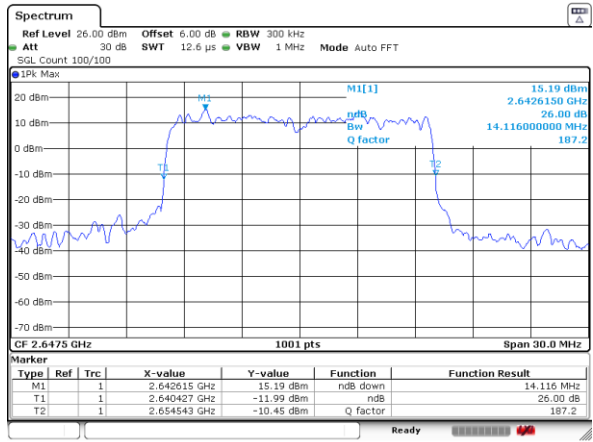
Date: 27_JUL_2020 20:17:29

Highest Channel / 15MHz / QPSK



Date: 27_JUL_2020 20:16:50

Highest Channel / 15MHz / 16QAM

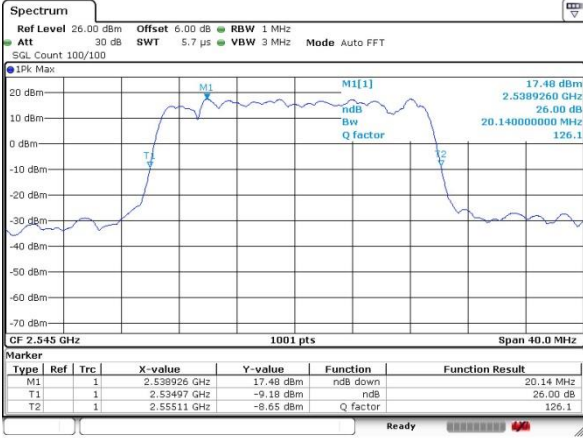


Date: 27_JUL_2020 20:16:39



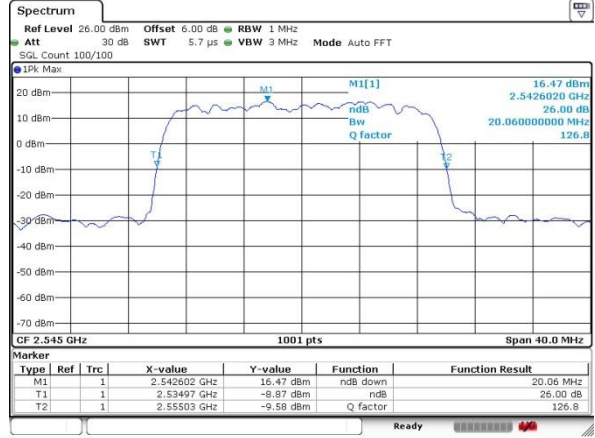
LTE Band 41

Lowest Channel / 20MHz / QPSK



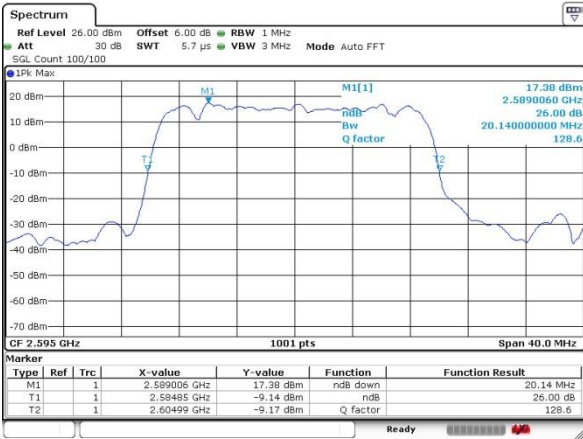
Date: 28 JUL 2020 10:27:55

Lowest Channel / 20MHz / 16QAM



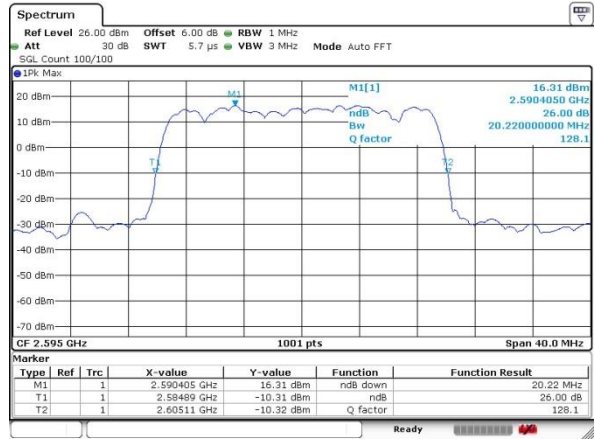
Date: 28 JUL 2020 10:28:16

Middle Channel / 20MHz / QPSK



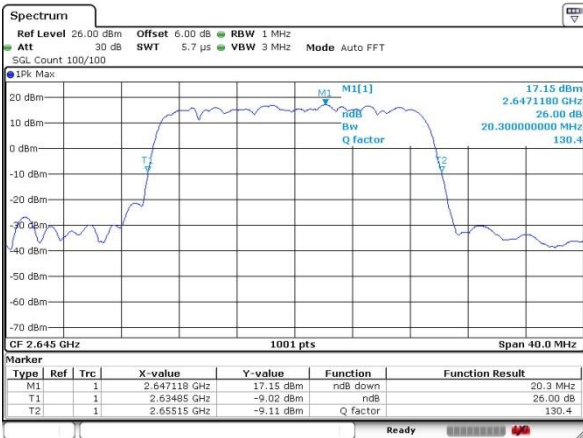
Date: 28 JUL 2020 10:25:43

Middle Channel / 20MHz / 16QAM



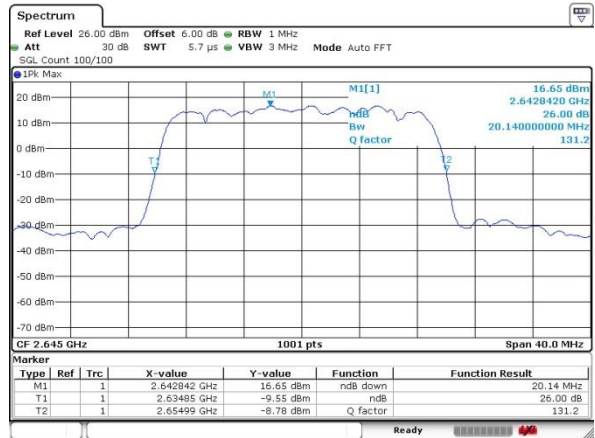
Date: 28 JUL 2020 10:26:16

Highest Channel / 20MHz / QPSK



Date: 28 JUL 2020 10:27:30

Highest Channel / 20MHz / 16QAM

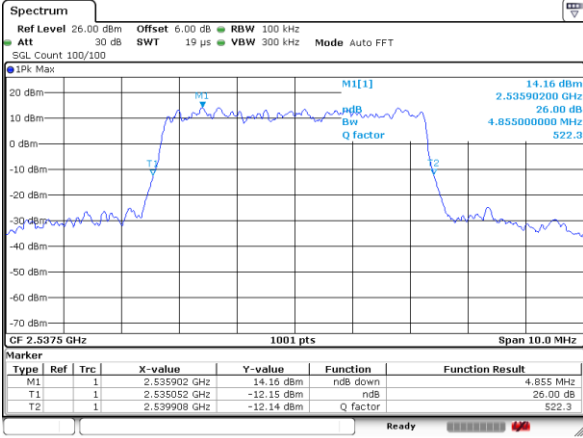


Date: 28 JUL 2020 10:27:18



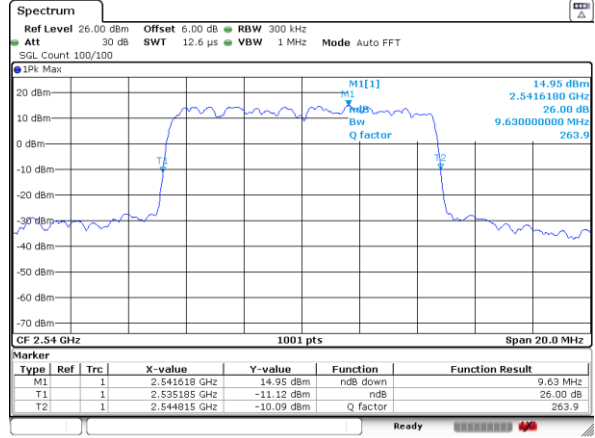
LTE Band 41

Lowest Channel / 5MHz / 64QAM



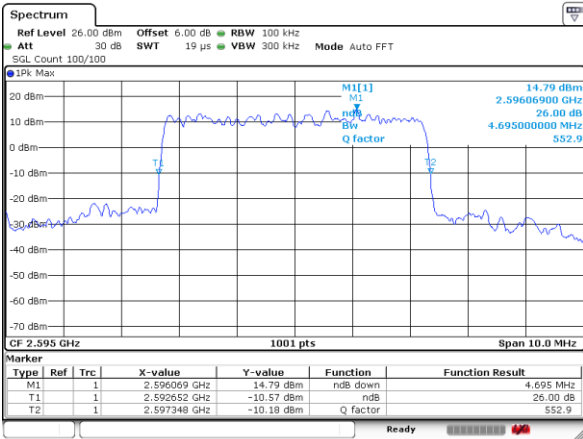
Date: 27_JUL_2020 16:28:35

Lowest Channel / 10MHz / 64QAM



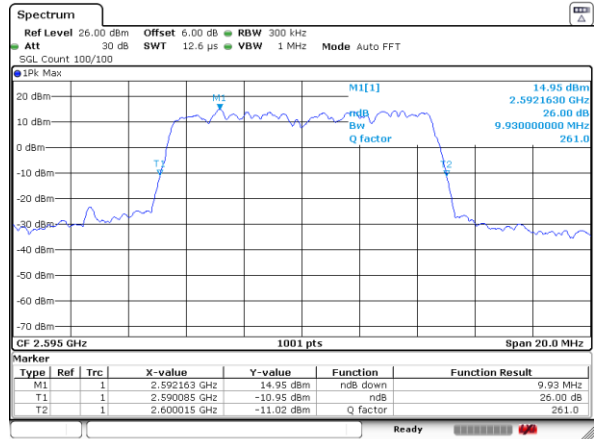
Date: 27_JUL_2020 20:26:59

Middle Channel / 5MHz / 64QAM



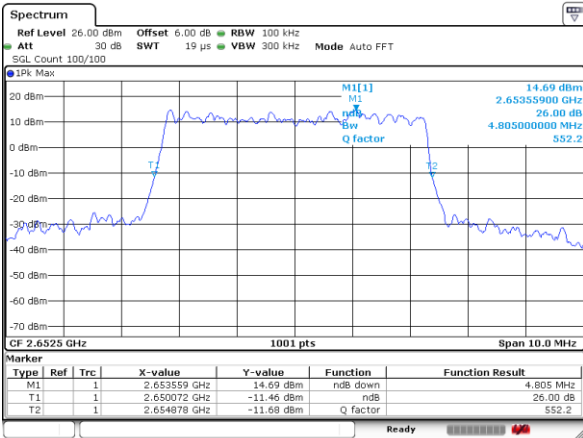
Date: 27_JUL_2020 16:26:55

Middle Channel / 10MHz / 64QAM



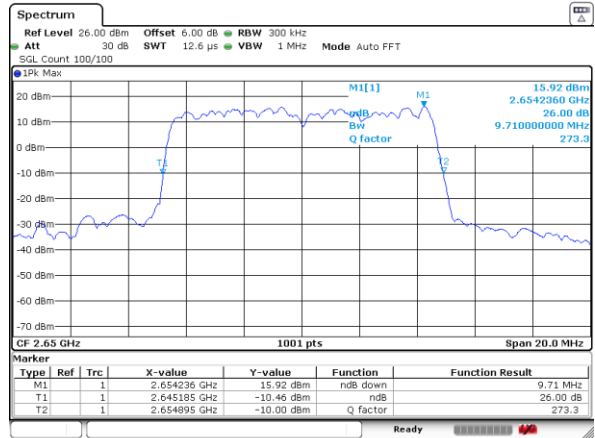
Date: 27_JUL_2020 20:26:26

Highest Channel / 5MHz / 64QAM



Date: 27_JUL_2020 16:29:12

Highest Channel / 10MHz / 64QAM

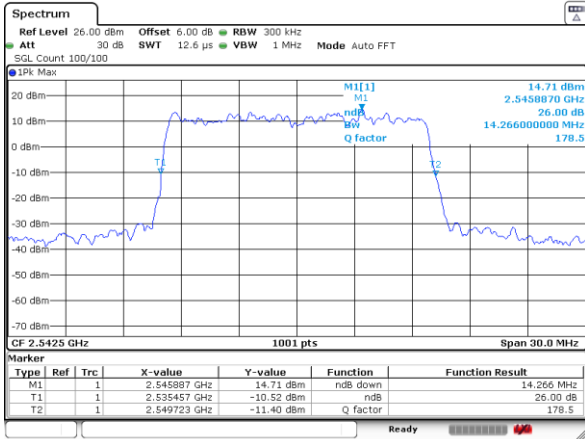


Date: 27_JUL_2020 20:25:07



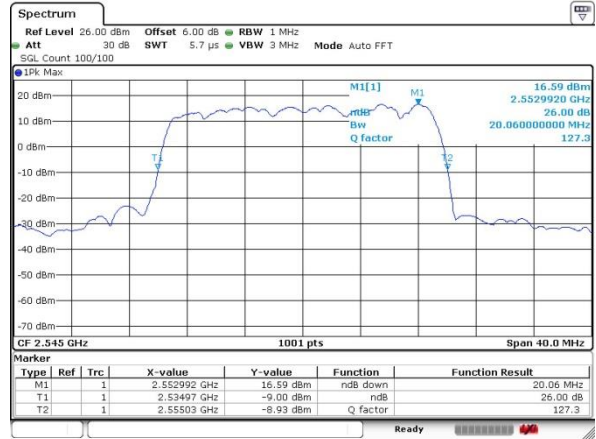
LTE Band 41

Lowest Channel / 15MHz / 64QAM



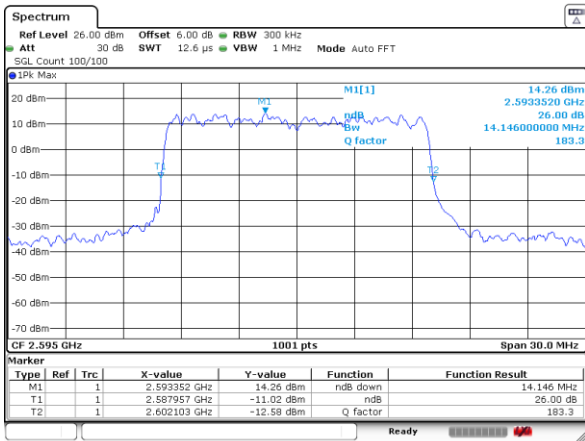
Date: 27_JUL_2020 20:15:54

Lowest Channel / 20MHz / 64QAM



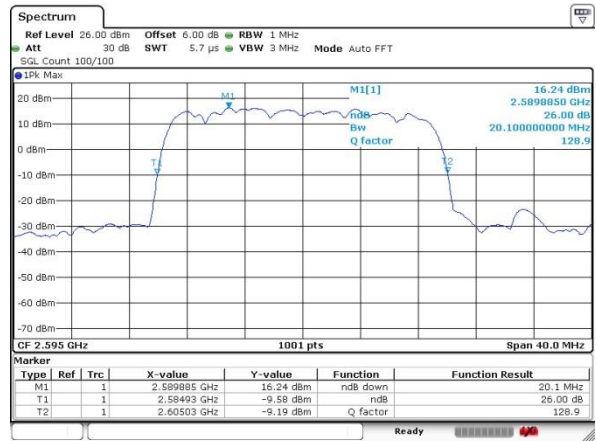
Date: 28_JUL_2020 10:28:38

Middle Channel / 15MHz / 64QAM



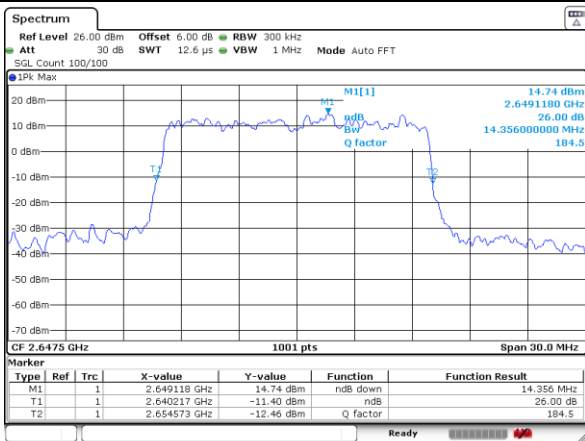
Date: 27_JUL_2020 20:17:41

Middle Channel / 20MHz / 64QAM



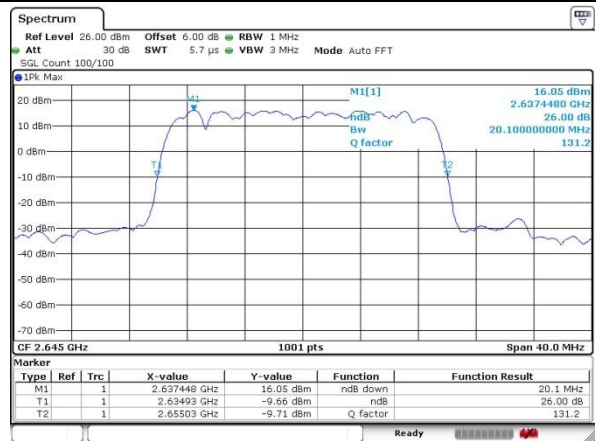
Date: 28_JUL_2020 10:26:29

Highest Channel / 15MHz / 64QAM



Date: 27_JUL_2020 20:16:15

Highest Channel / 20MHz / 64QAM



Date: 28_JUL_2020 10:27:04



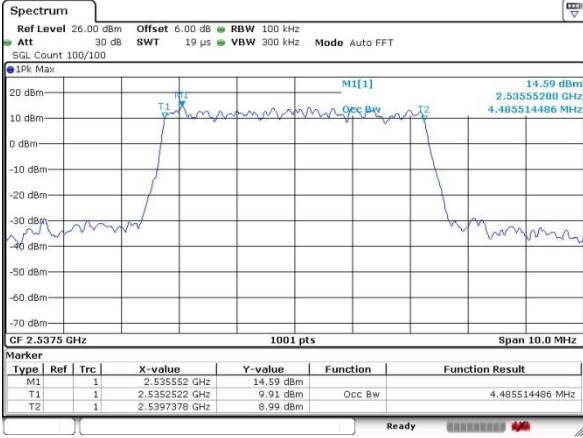
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.49	4.47	9.05	9.03	13.40	13.43	18.30	18.22	4.49	9.05	13.52	18.30
Middle CH	4.50	4.49	9.05	8.97	13.37	13.43	18.46	18.30	4.50	8.99	13.43	18.18
Highest CH	4.46	4.49	8.97	9.01	13.37	13.49	18.38	18.42	4.45	9.01	13.43	18.14



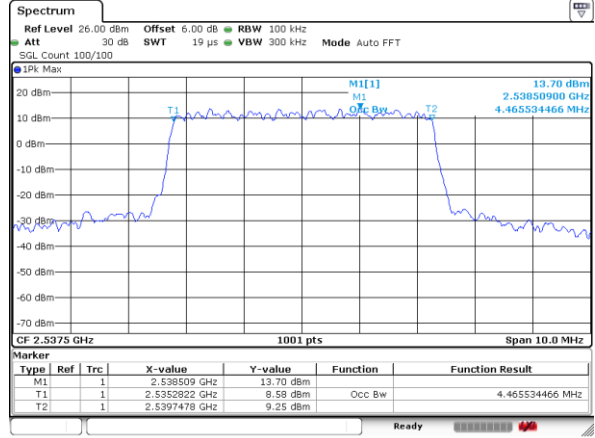
LTE Band 41

Lowest Channel / 5MHz / QPSK



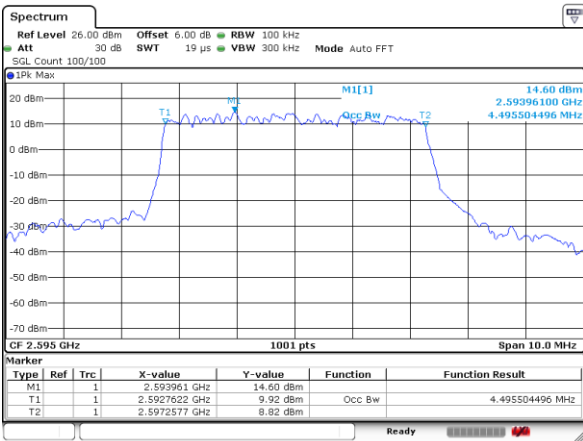
Date: 28 JUL 2020 12:28:58

Lowest Channel / 5MHz / 16QAM



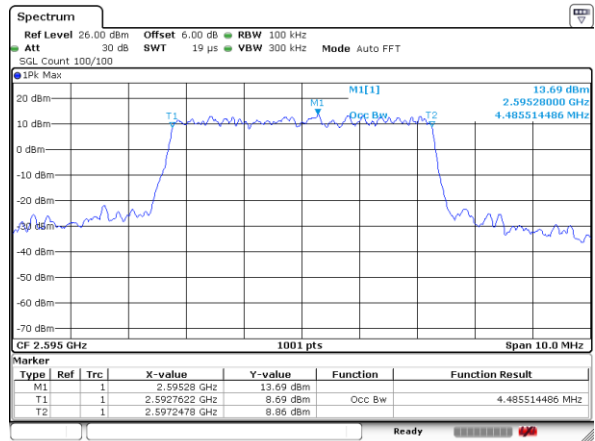
Date: 27 JUL 2020 16:25:07

Middle Channel / 5MHz / QPSK



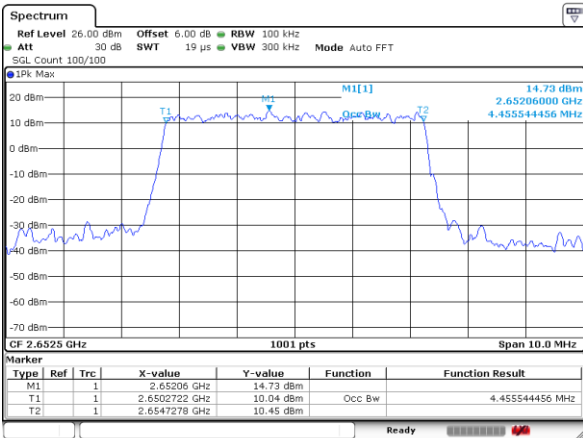
Date: 27 JUL 2020 16:25:47

Middle Channel / 5MHz / 16QAM



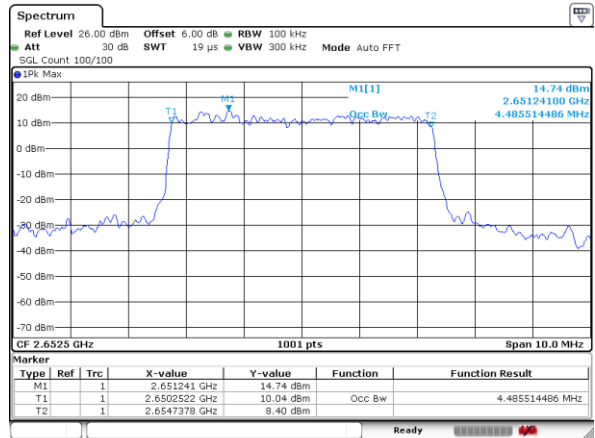
Date: 27 JUL 2020 16:26:06

Highest Channel / 5MHz / QPSK



Date: 27 JUL 2020 16:22:58

Highest Channel / 5MHz / 16QAM

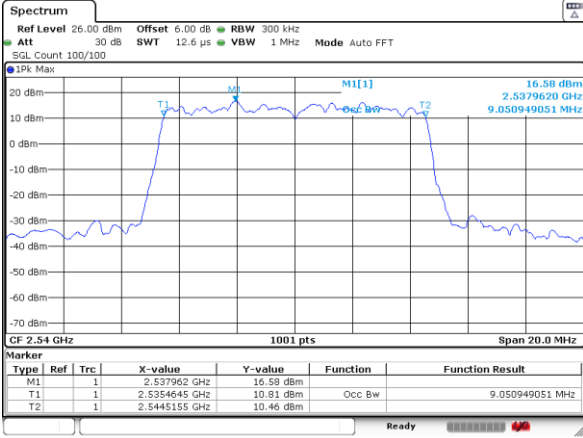


Date: 27 JUL 2020 16:23:51



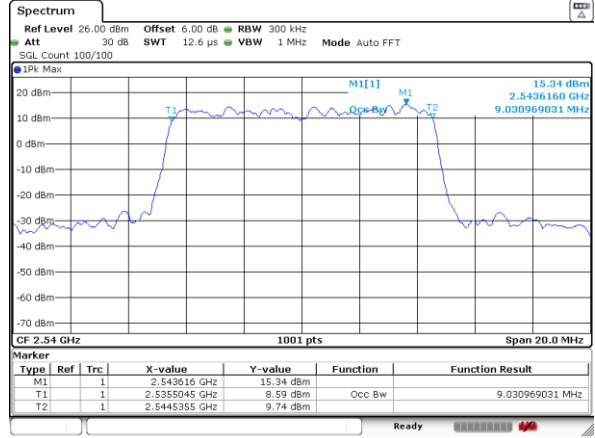
LTE Band 41

Lowest Channel / 10MHz / QPSK



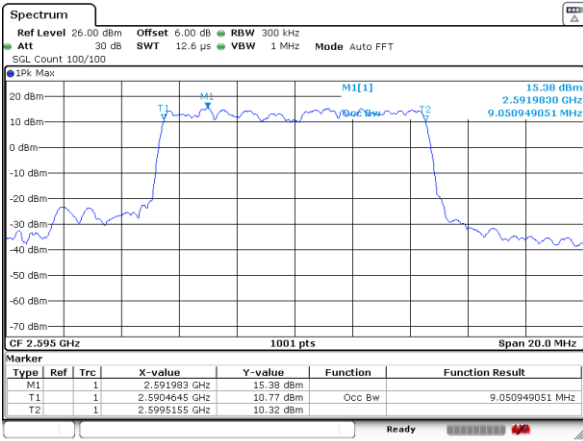
Date: 27_JUL_2020 20:23:45

Lowest Channel / 10MHz / 16QAM



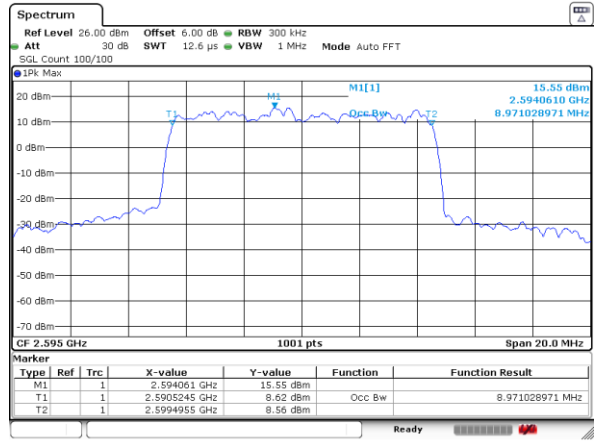
Date: 27_JUL_2020 20:23:32

Middle Channel / 10MHz / QPSK



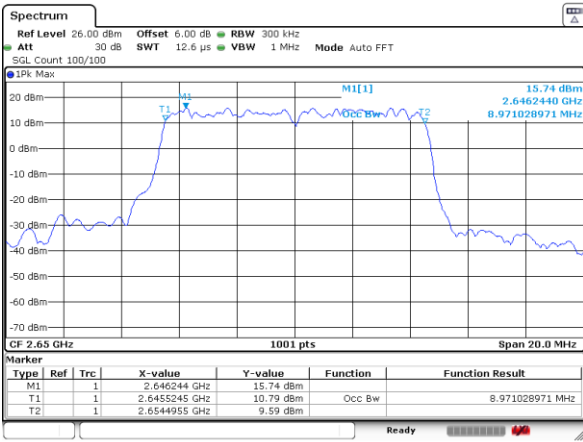
Date: 27_JUL_2020 20:22:03

Middle Channel / 10MHz / 16QAM



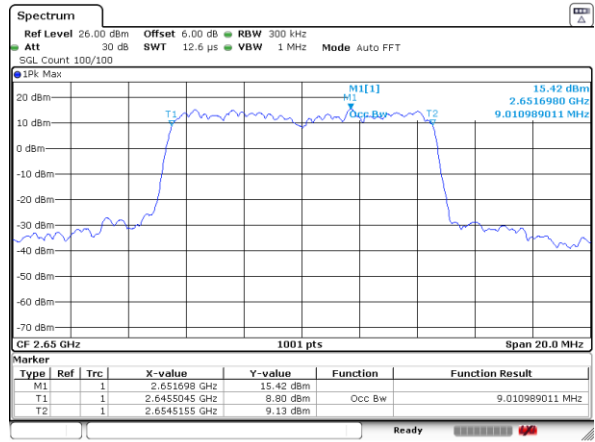
Date: 27_JUL_2020 20:22:13

Highest Channel / 10MHz / QPSK



Date: 27_JUL_2020 20:24:10

Highest Channel / 10MHz / 16QAM

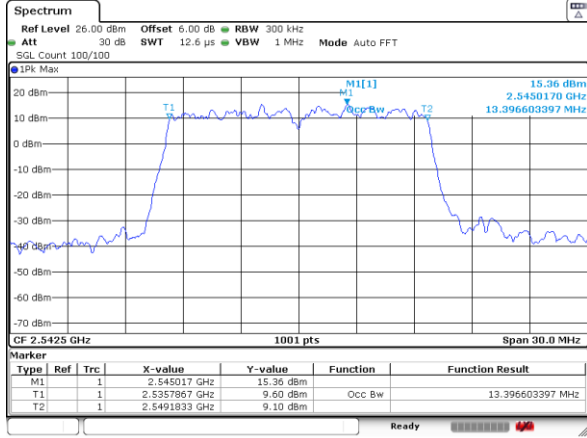


Date: 27_JUL_2020 20:24:23



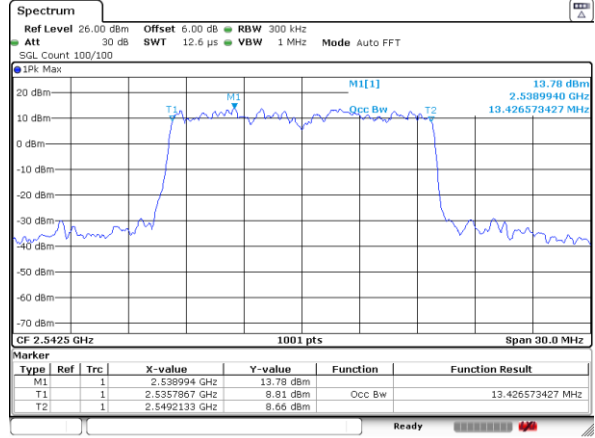
LTE Band 41

Lowest Channel / 15MHz / QPSK



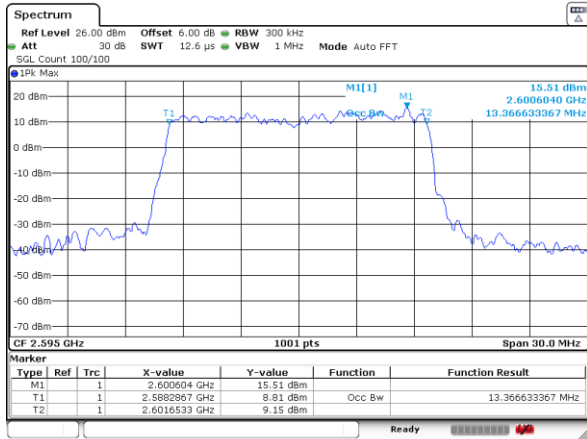
Date: 27_JUL_2020 20:20:50

Lowest Channel / 15MHz / 16QAM



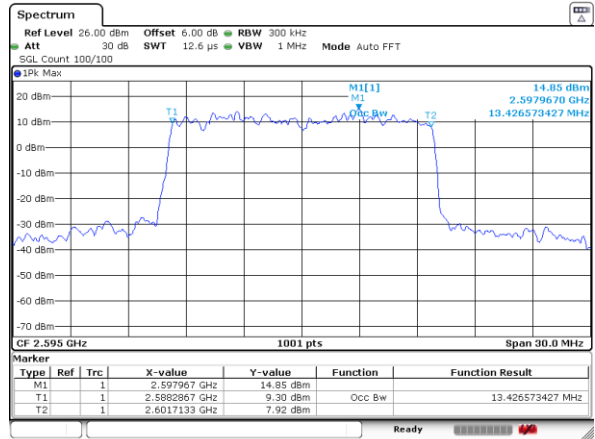
Date: 27_JUL_2020 20:20:36

Middle Channel / 15MHz / QPSK



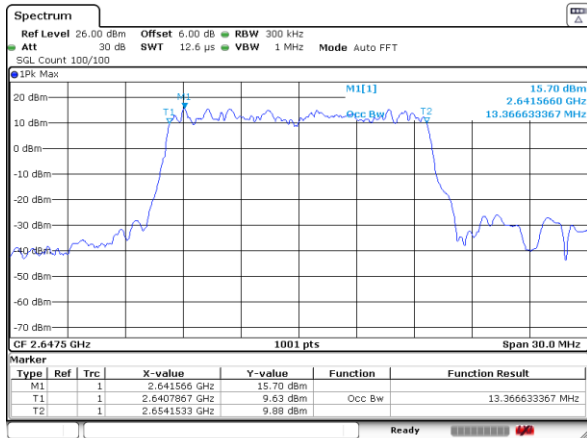
Date: 27_JUL_2020 20:18:41

Middle Channel / 15MHz / 16QAM



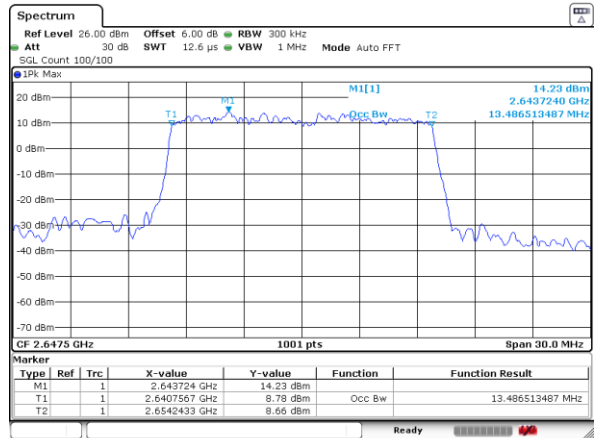
Date: 27_JUL_2020 20:18:22

Highest Channel / 15MHz / QPSK



Date: 27_JUL_2020 20:19:08

Highest Channel / 15MHz / 16QAM



Date: 27_JUL_2020 20:19:25