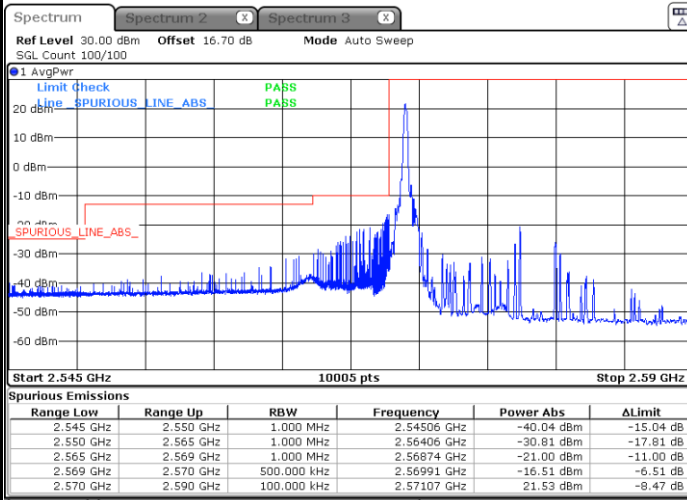




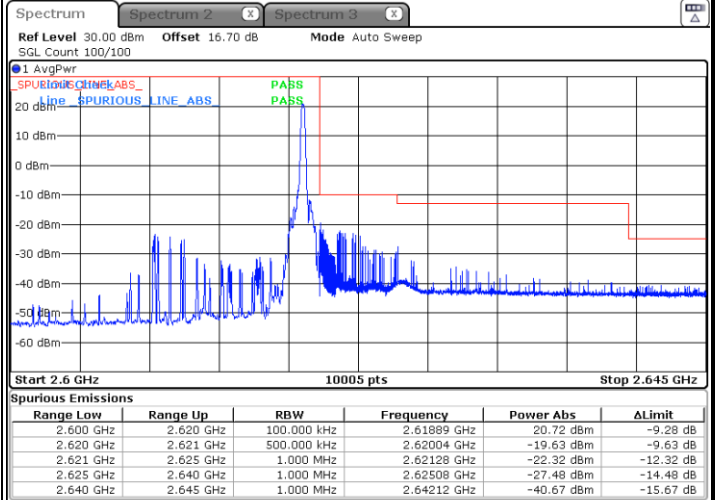
LTE Band 38 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



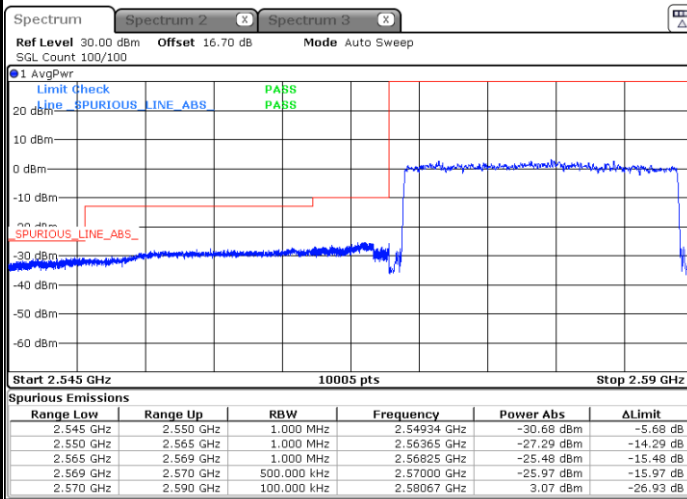
Date: 6 MAY 2020 00:11:02

Highest Band Edge / 1 RB



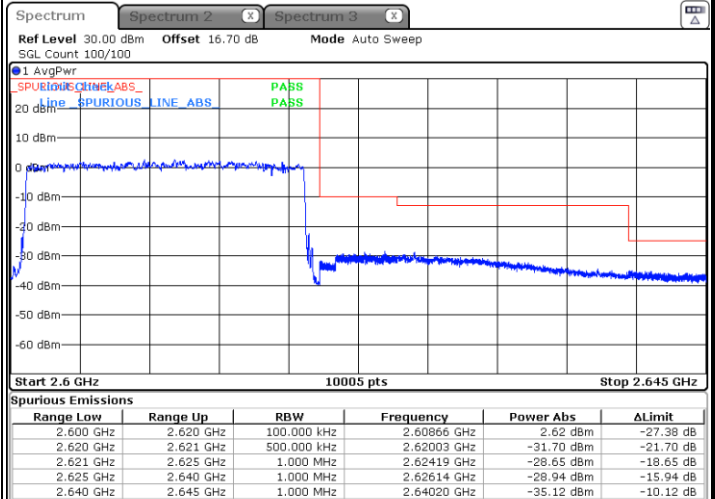
Date: 6 MAY 2020 00:13:06

Lowest Band Edge / Full RB



Date: 6 MAY 2020 00:11:44

Highest Band Edge / Full RB



Date: 6 MAY 2020 00:12:25



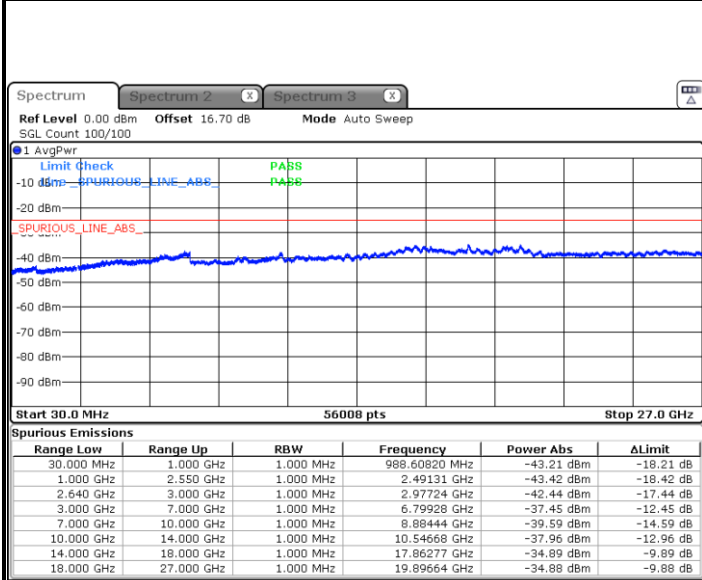
Conducted Spurious Emission





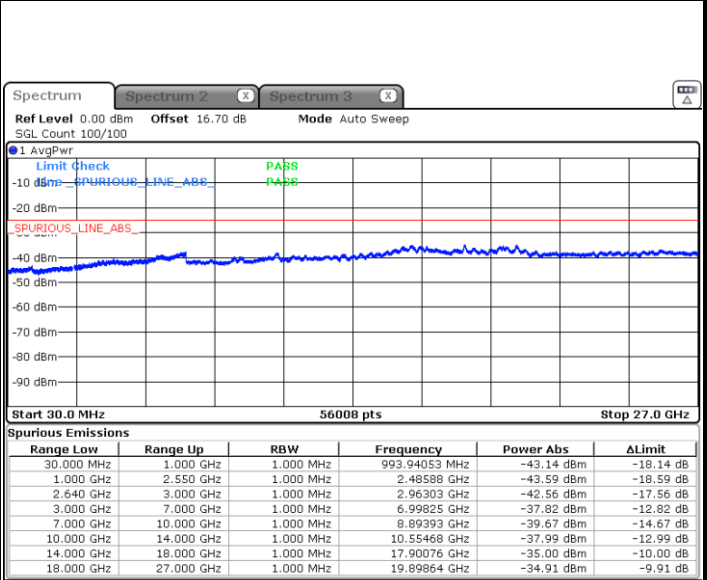
LTE Band 38 / 5MHz

Highest Channel / QPSK



Date: 6 MAY 2020 00:21:14

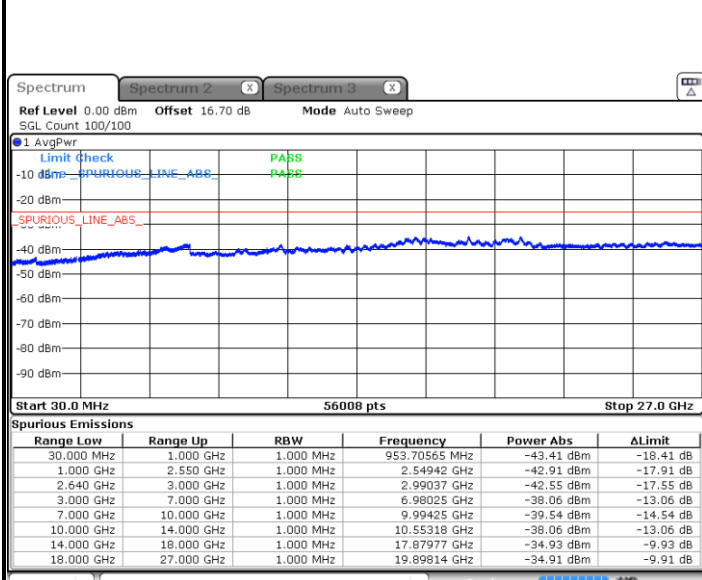
Highest Channel / 16QAM



Date: 6 MAY 2020 00:22:16

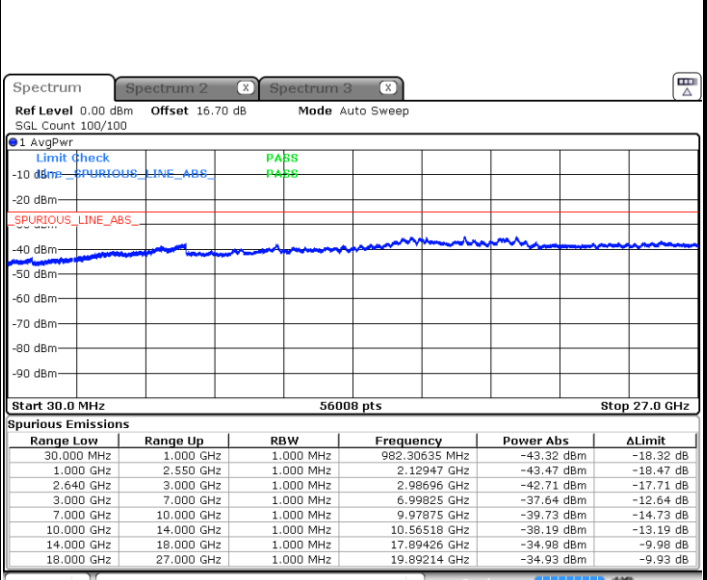
LTE Band 38 / 10MHz

Lowest Channel / QPSK



Date: 6 MAY 2020 00:26:20

Lowest Channel / 16QAM



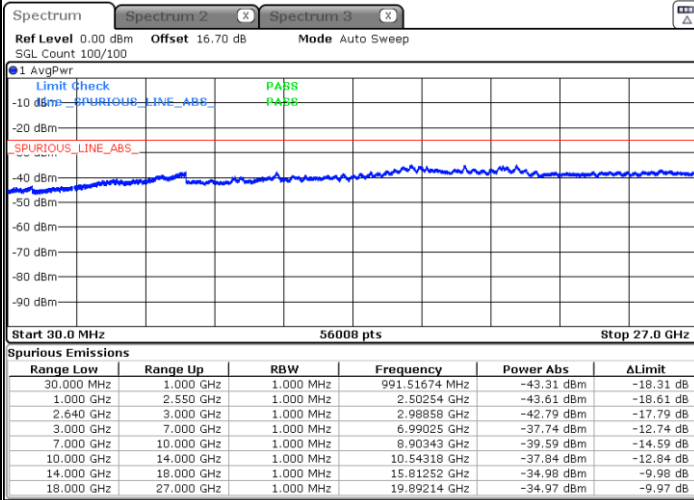
Date: 6 MAY 2020 00:27:21



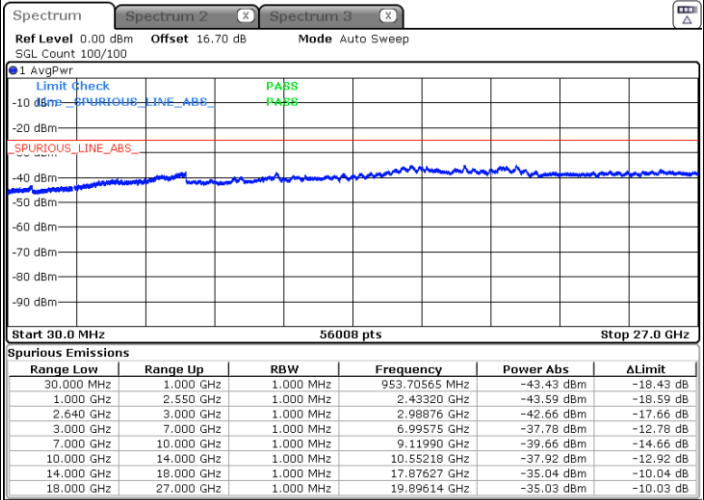
LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



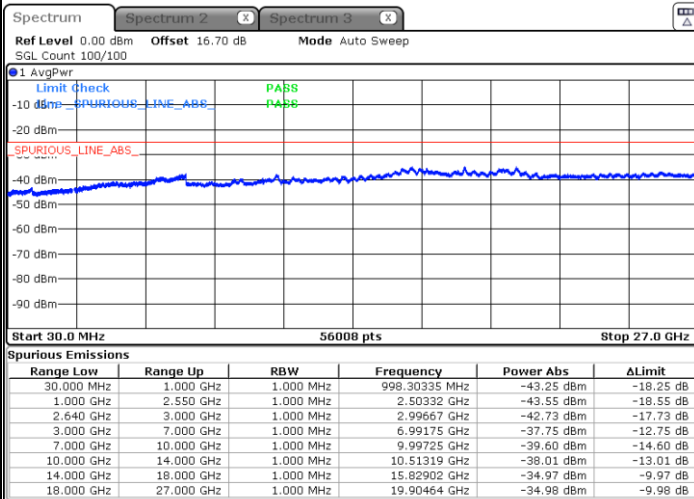
Date: 6 MAY.2020 00:28:22



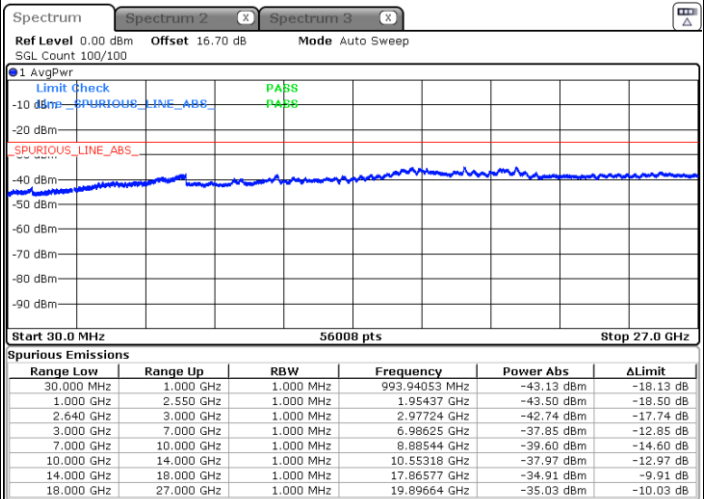
Date: 6 MAY.2020 00:29:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 MAY.2020 00:30:23

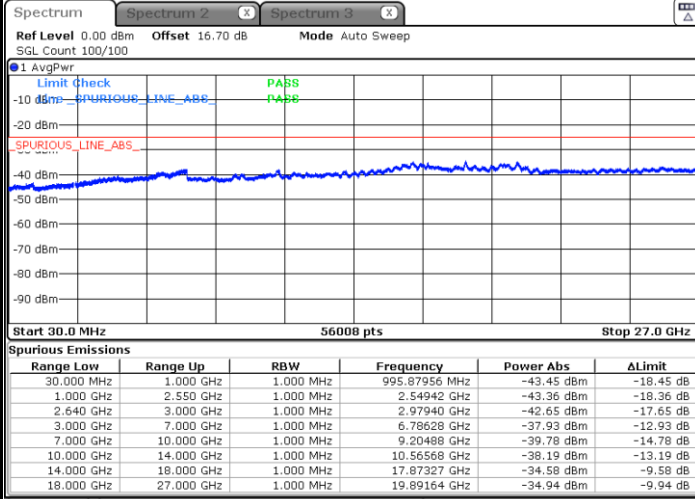


Date: 6 MAY.2020 00:31:24



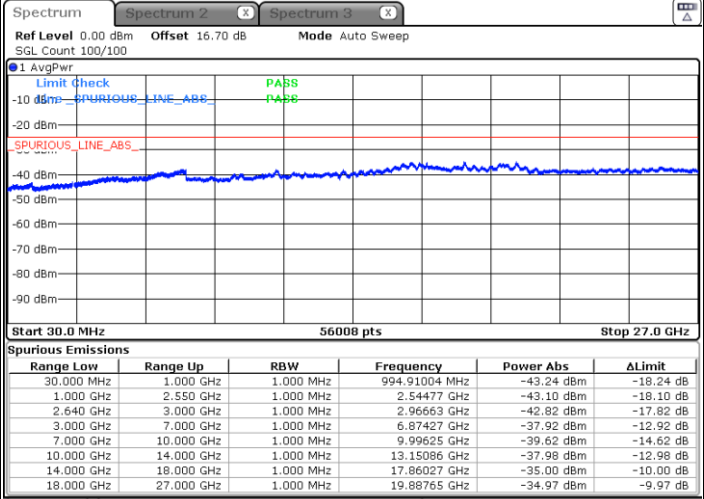
LTE Band 38 / 15MHz

Lowest Channel / QPSK



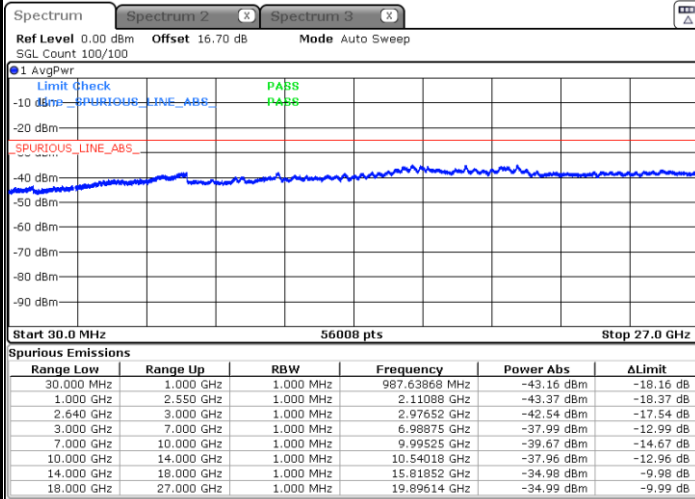
Date: 6 MAY.2020 00:32:26

Lowest Channel / 16QAM



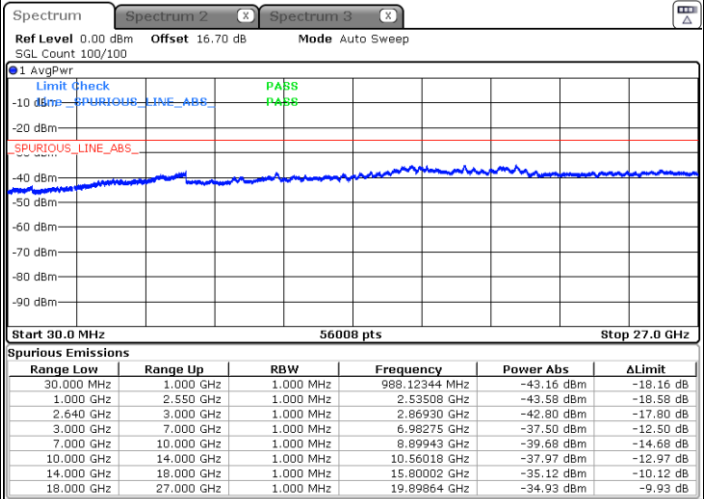
Date: 6 MAY.2020 00:33:27

Middle Channel / QPSK



Date: 6 MAY.2020 00:34:28

Middle Channel / 16QAM

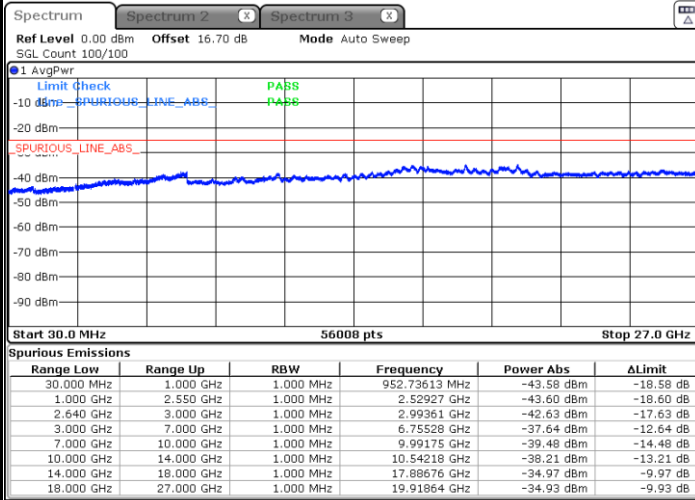


Date: 6 MAY.2020 00:35:29



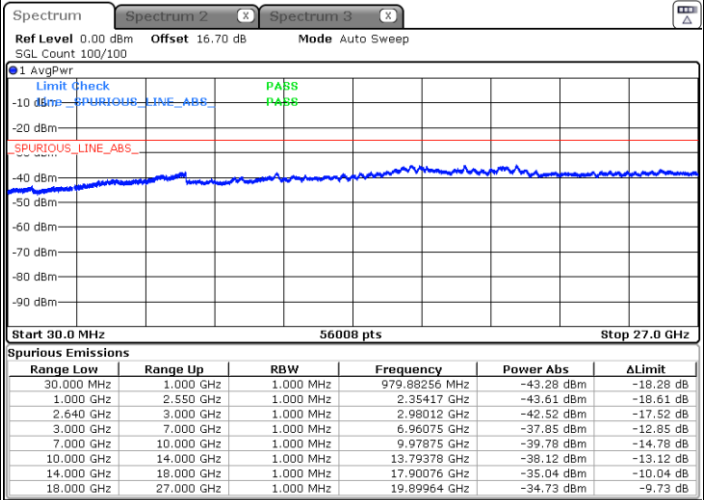
LTE Band 38 / 15MHz

Highest Channel / QPSK



Date: 6 MAY 2020 00:36:29

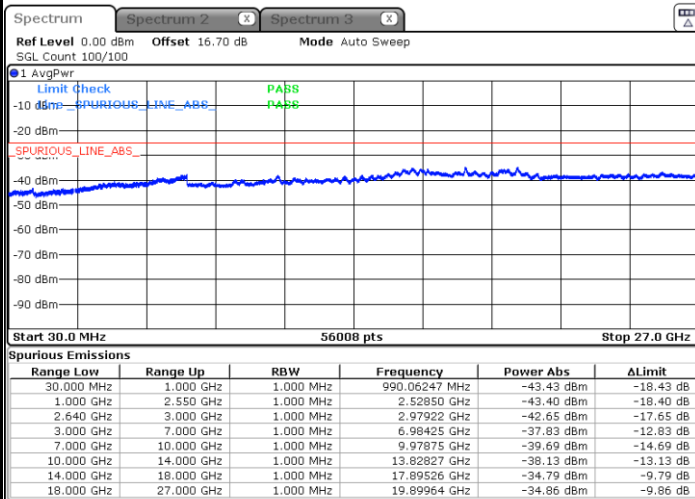
Highest Channel / 16QAM



Date: 6 MAY 2020 00:37:31

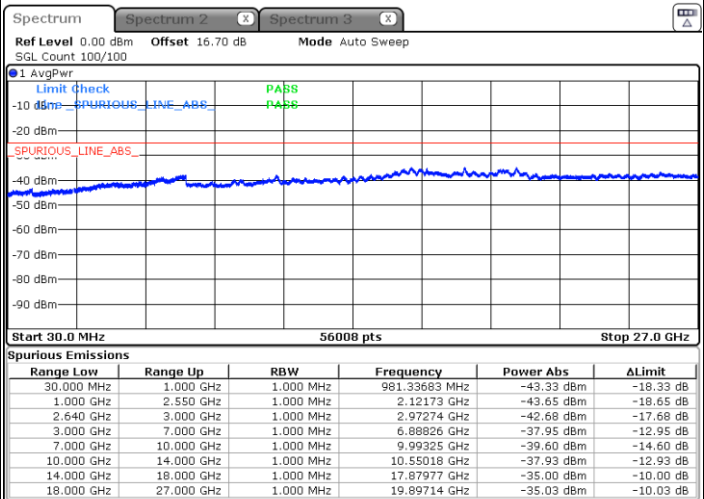
LTE Band 38 / 20MHz

Lowest Channel / QPSK



Date: 6 MAY 2020 00:41:35

Lowest Channel / 16QAM



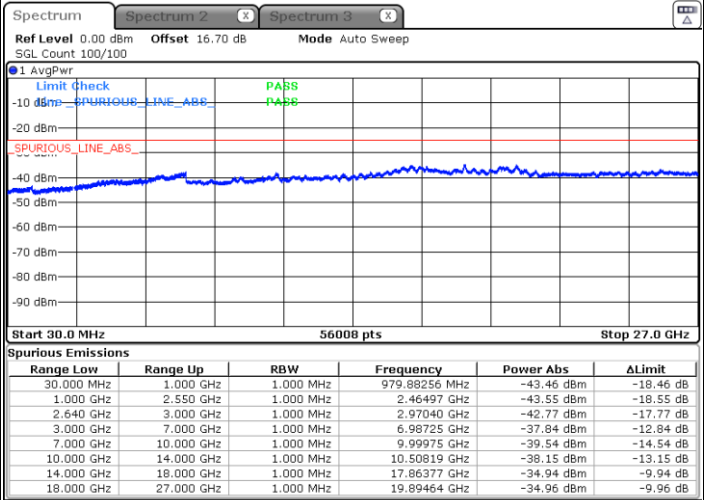
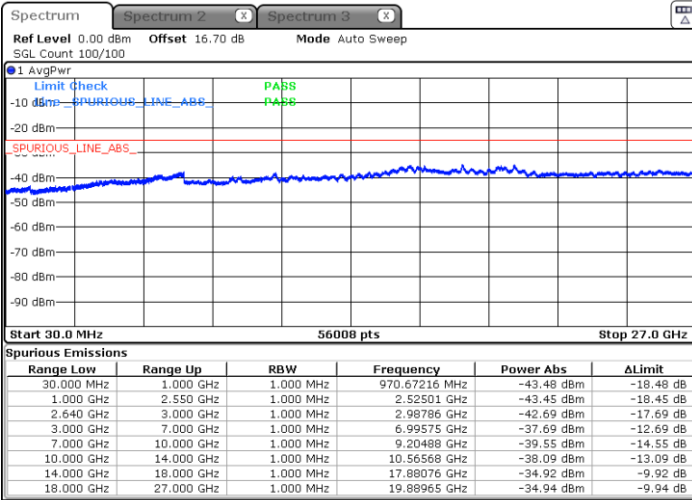
Date: 6 MAY 2020 00:42:36



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

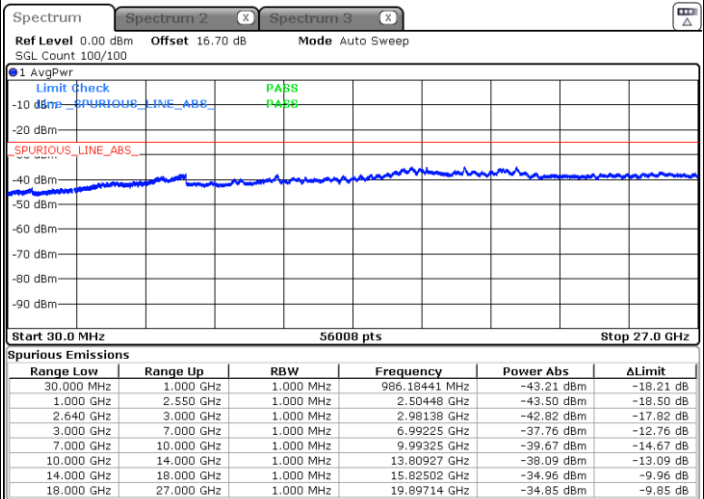
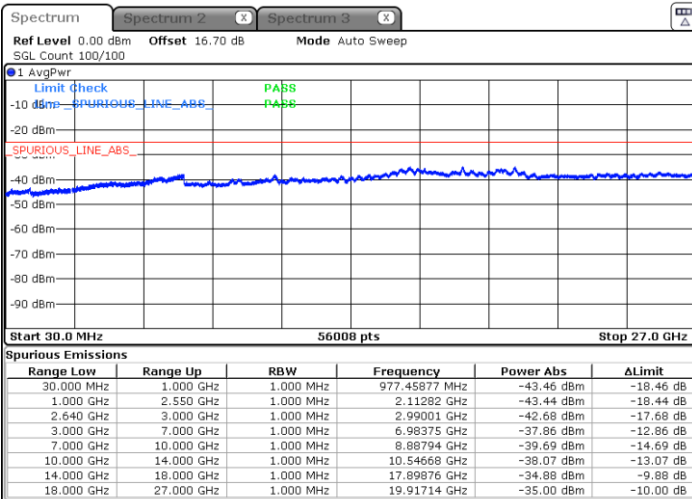


Date: 6 MAY.2020 00:43:37

Date: 6 MAY.2020 00:44:37

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 MAY.2020 00:45:38

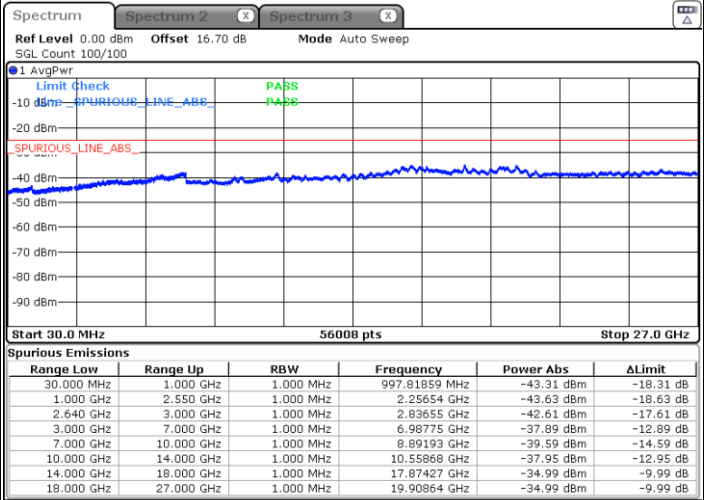
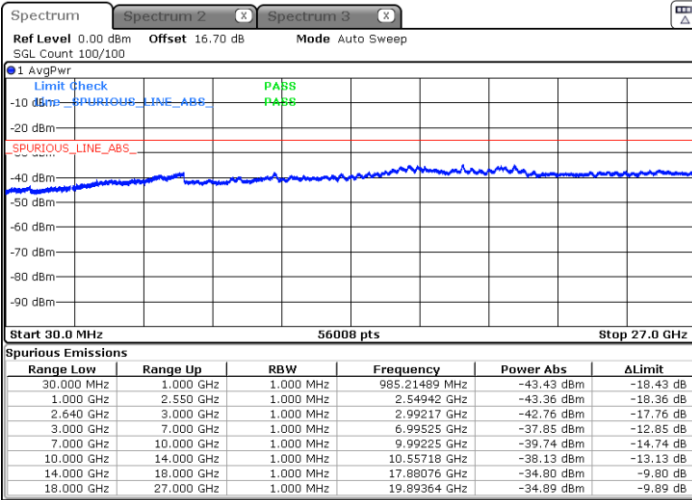
Date: 6 MAY.2020 00:46:39



LTE Band 38 / 5MHz

Lowest Channel / 64QAM

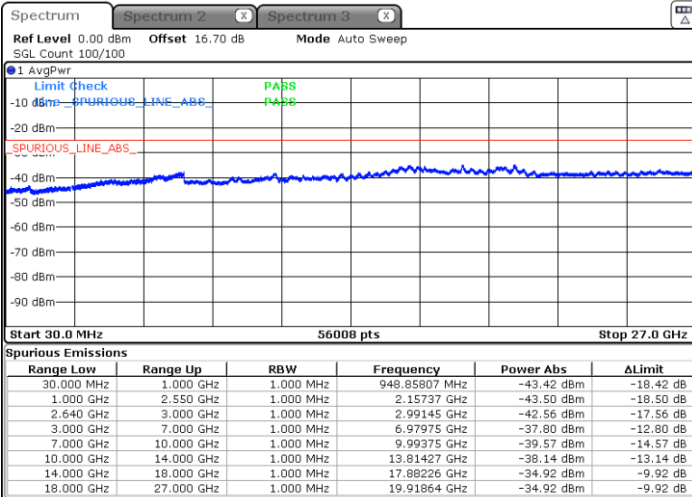
Middle Channel / 64QAM



Date: 6 MAY.2020 00:14:09

Date: 6 MAY.2020 00:15:09

Highest Channel / 64QAM



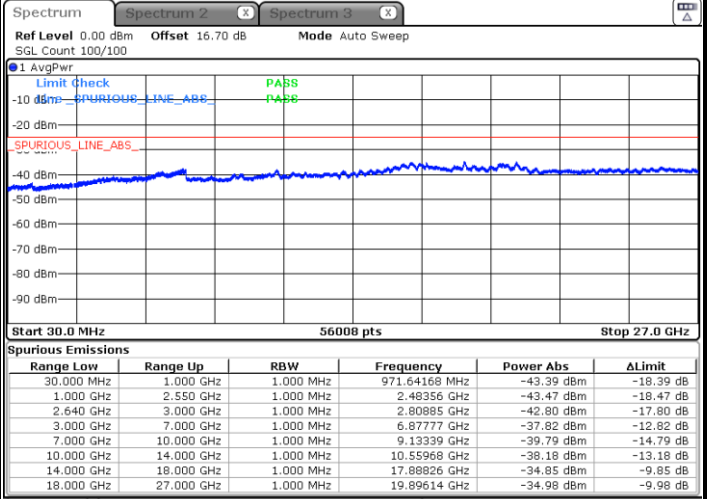
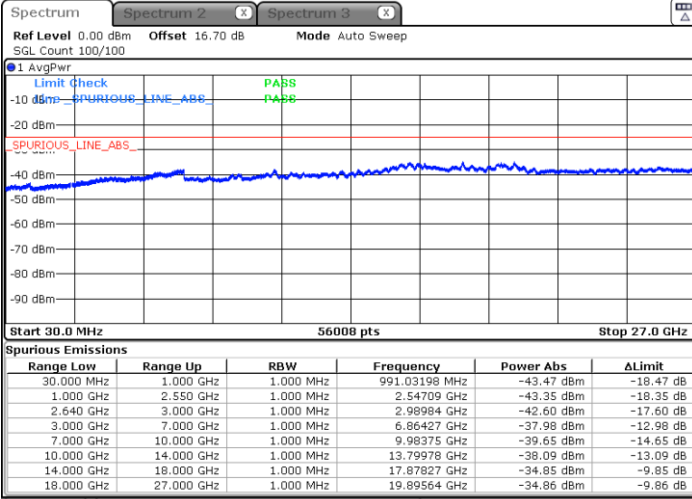
Date: 6 MAY.2020 00:16:10



LTE Band 38 / 10MHz

Lowest Channel / 64QAM

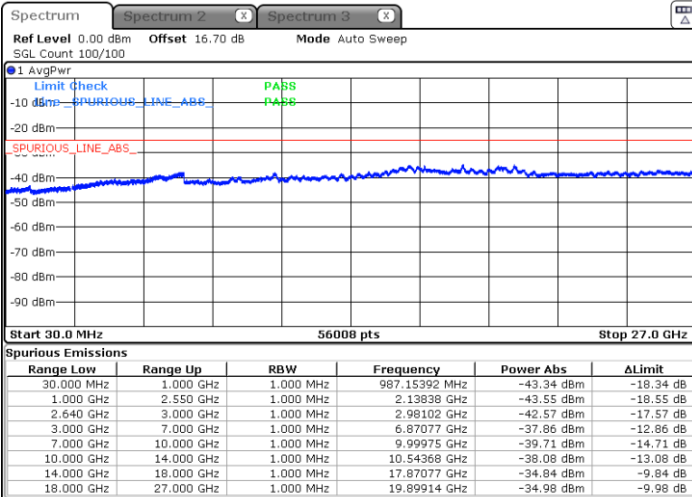
Middle Channel / 64QAM



Date: 6 MAY.2020 00:23:17

Date: 6 MAY.2020 00:24:18

Highest Channel / 64QAM



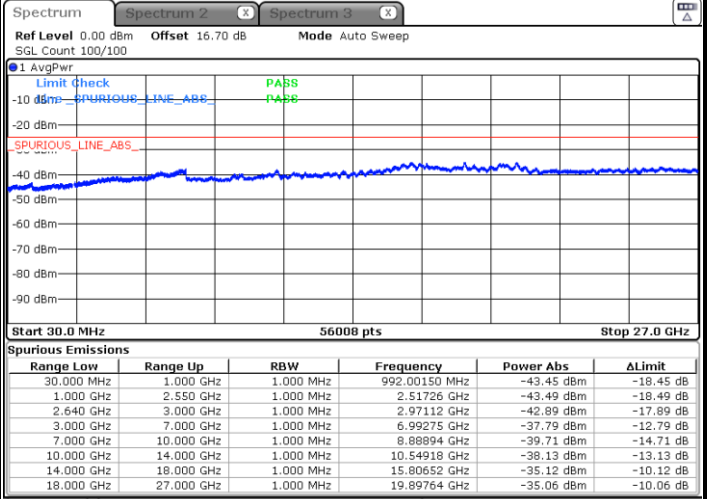
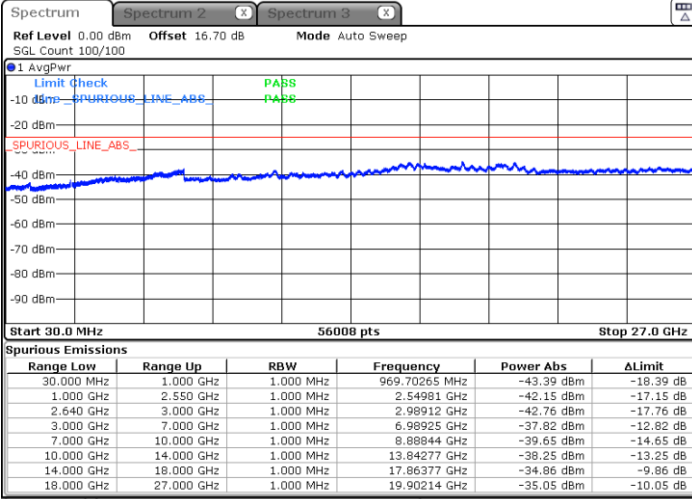
Date: 6 MAY.2020 00:25:19



LTE Band 38 / 15MHz

Lowest Channel / 64QAM

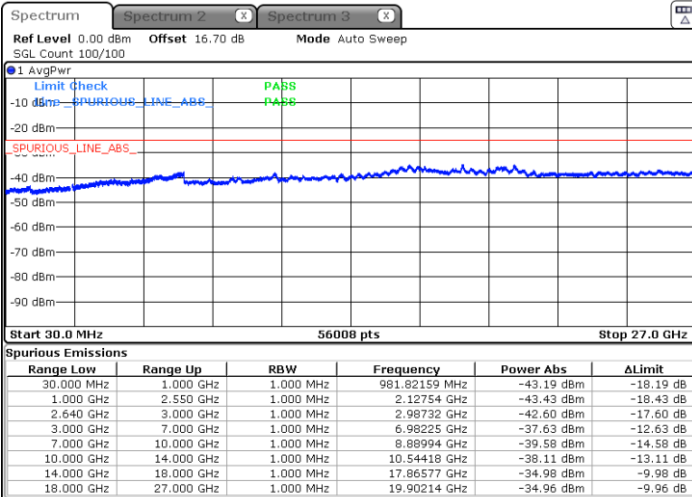
Middle Channel / 64QAM



Date: 6 MAY.2020 00:38:32

Date: 6 MAY.2020 00:39:32

Highest Channel / 64QAM



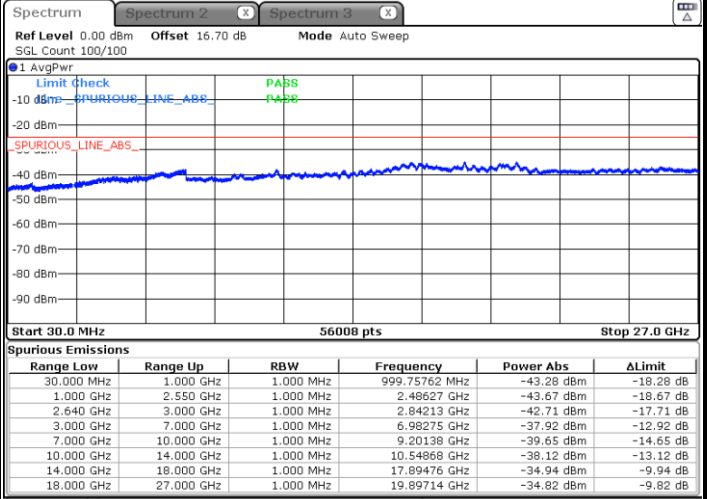
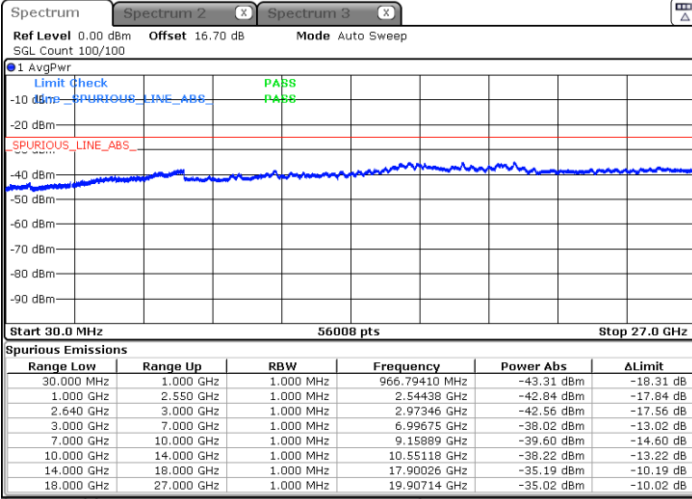
Date: 6 MAY.2020 00:40:33



LTE Band 38 / 20MHz

Lowest Channel / 64QAM

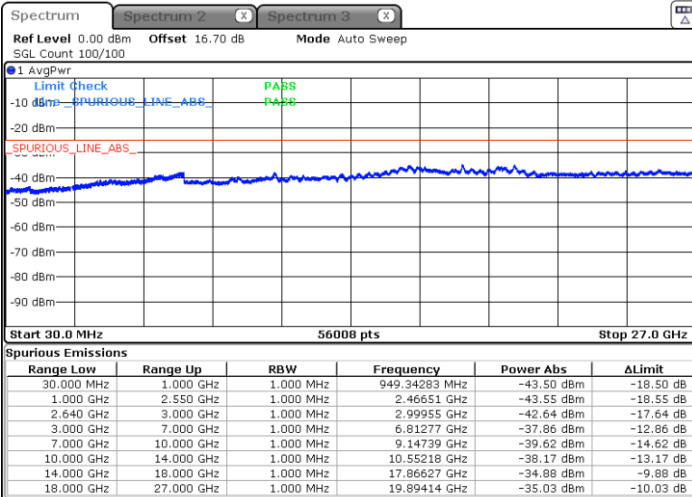
Middle Channel / 64QAM



Date: 6 MAY 2020 00:47:40

Date: 6 MAY 2020 00:48:41

Highest Channel / 64QAM



Date: 6 MAY 2020 00:49:42



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	0.0022	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0043	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0044	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.49 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

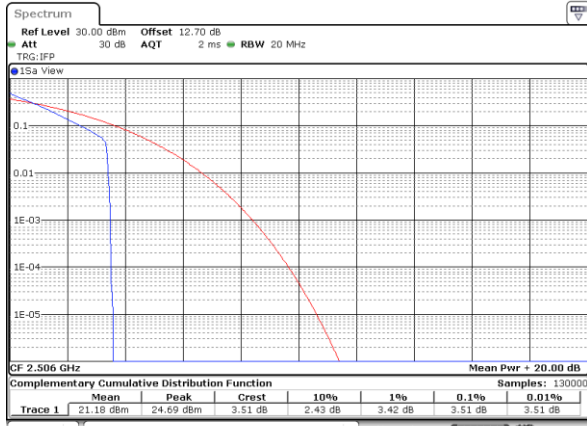
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.99	5.57	5.97	PASS
Middle CH	3.71	5.04	5.83	6.00	
Highest CH	4.61	5.01	5.88	5.94	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.03	6.49	-	-	PASS
Middle CH	6.99	6.55	-	-	
Highest CH	9.77	6.43	-	-	



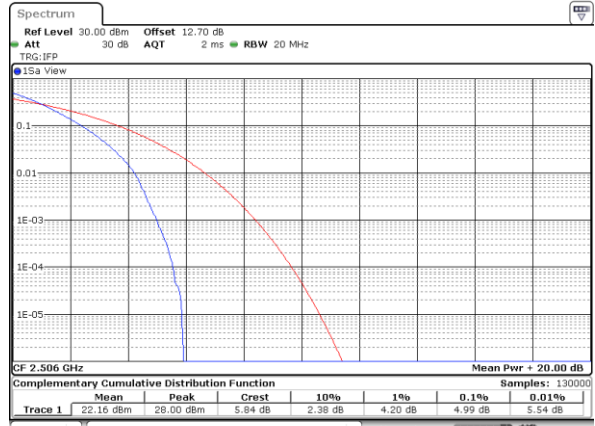
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



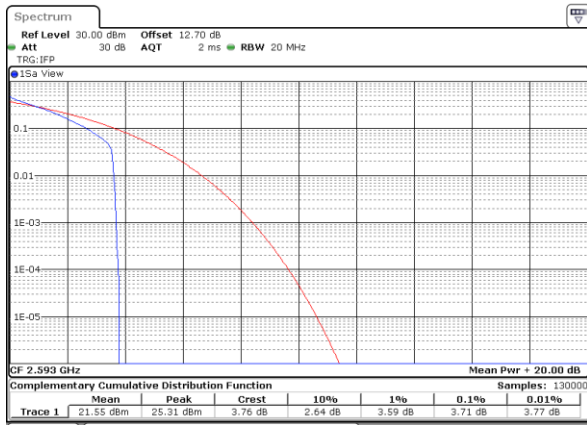
Date: 21 MAY 2020 06:07:53

Lowest Channel / Full RB



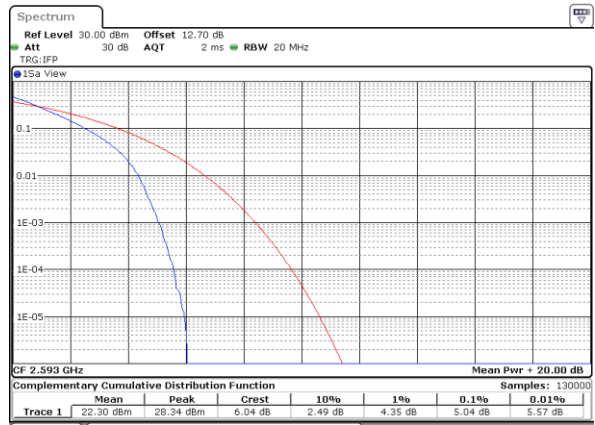
Date: 21 MAY 2020 06:08:08

Middle Channel / 1RB



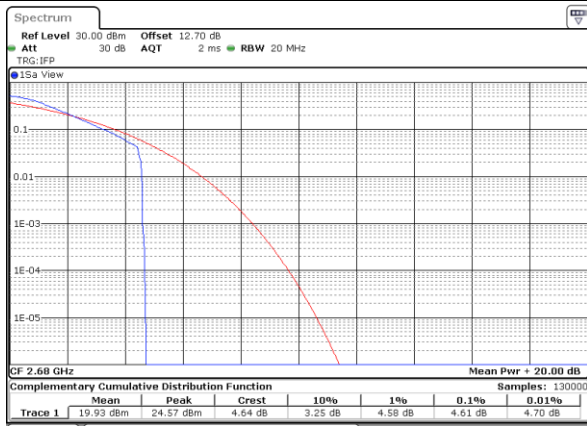
Date: 21 MAY 2020 06:08:23

Middle Channel / Full RB



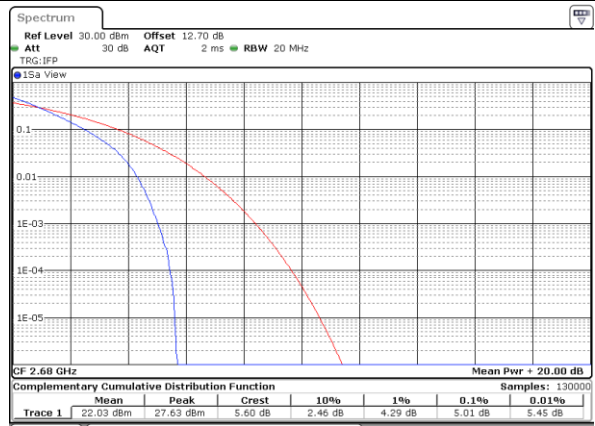
Date: 21 MAY 2020 06:08:39

Highest Channel / 1RB



Date: 21 MAY 2020 06:08:54

Highest Channel / Full RB

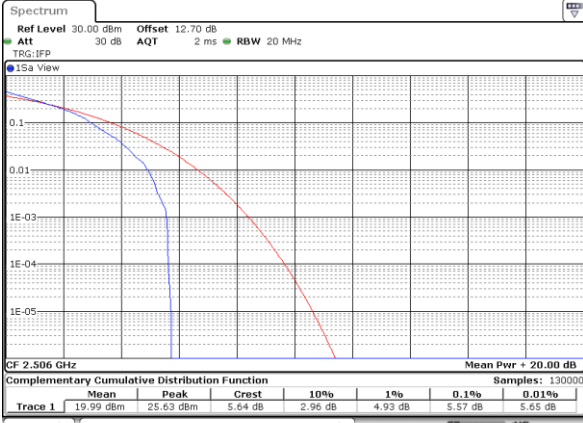


Date: 21 MAY 2020 06:09:09



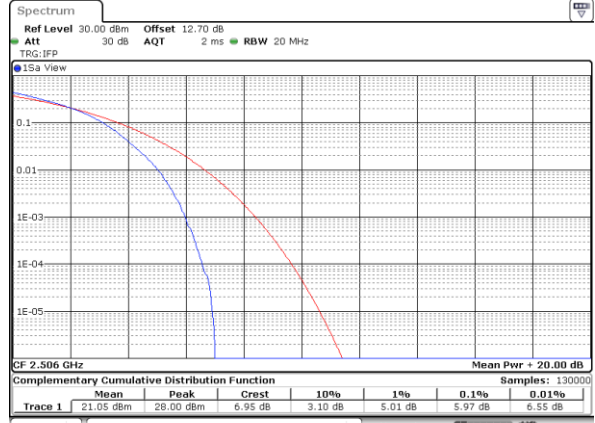
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



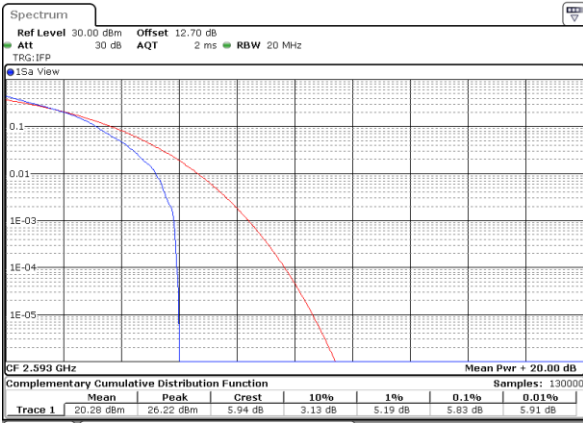
Date: 21 MAY 2020 06:06:15

Lowest Channel / Full RB



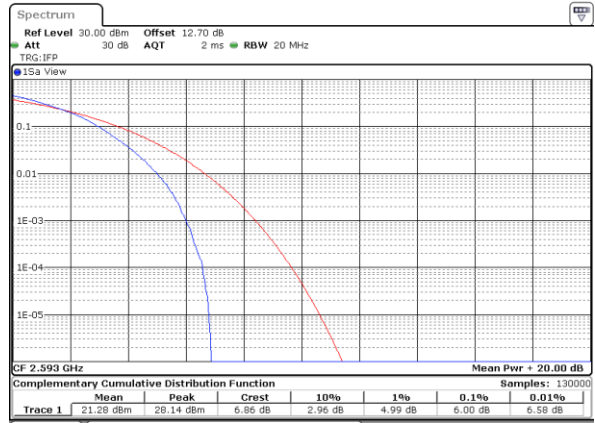
Date: 21 MAY 2020 06:06:39

Middle Channel / 1RB



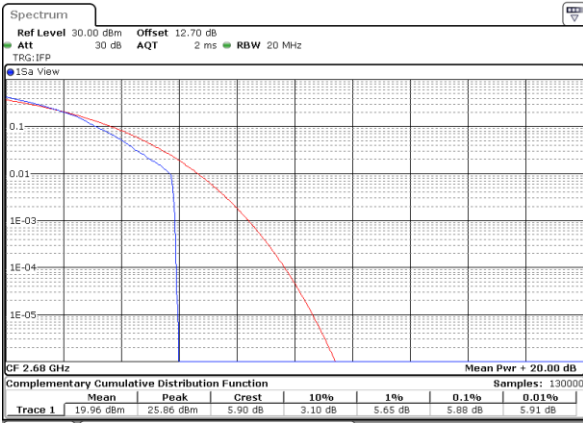
Date: 21 MAY 2020 06:06:54

Middle Channel / Full RB



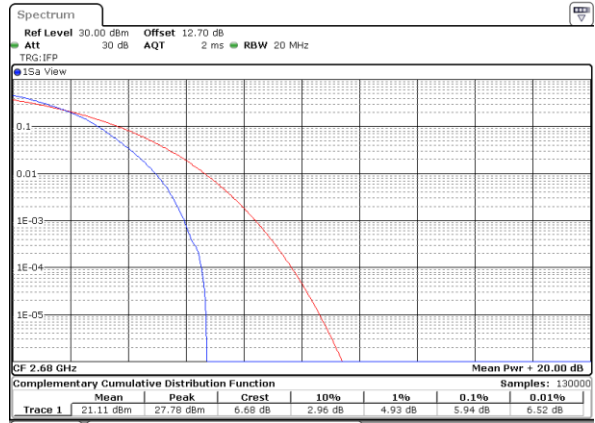
Date: 21 MAY 2020 06:07:09

Highest Channel / 1RB



Date: 21 MAY 2020 06:07:24

Highest Channel / Full RB

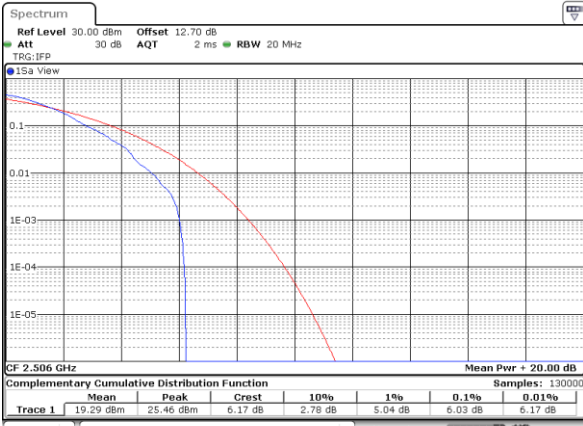


Date: 21 MAY 2020 06:07:38



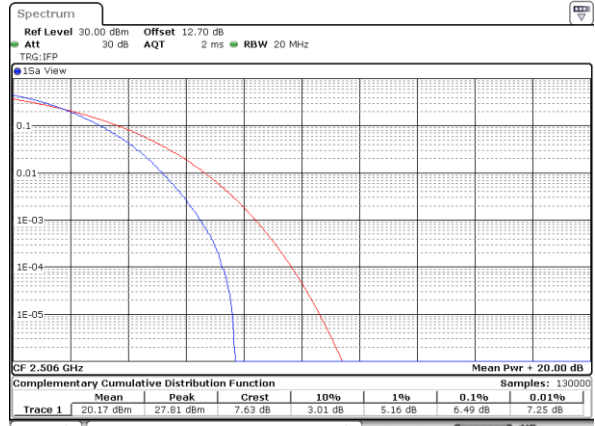
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



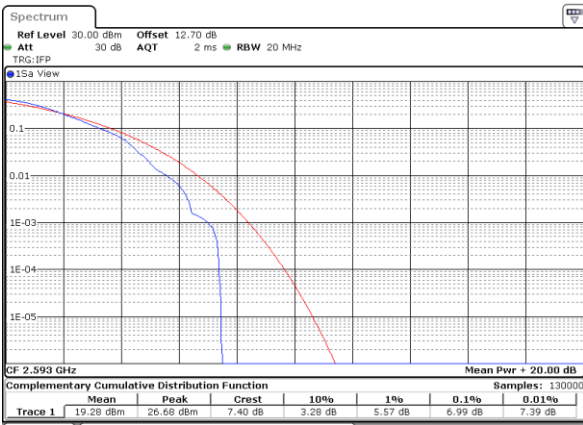
Date: 21 MAY 2020 06:00:56

Lowest Channel / Full RB



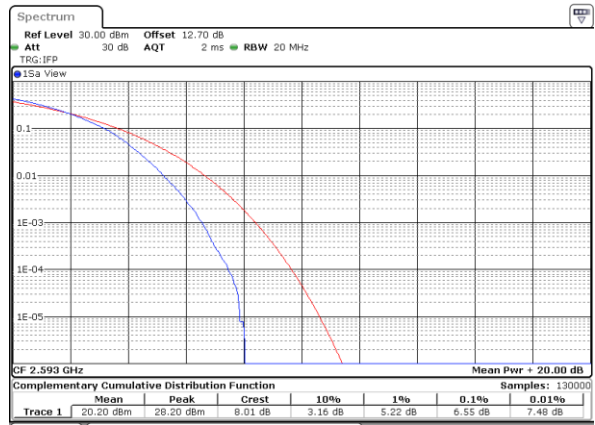
Date: 21 MAY 2020 06:01:16

Middle Channel / 1RB



Date: 21 MAY 2020 06:01:32

Middle Channel / Full RB



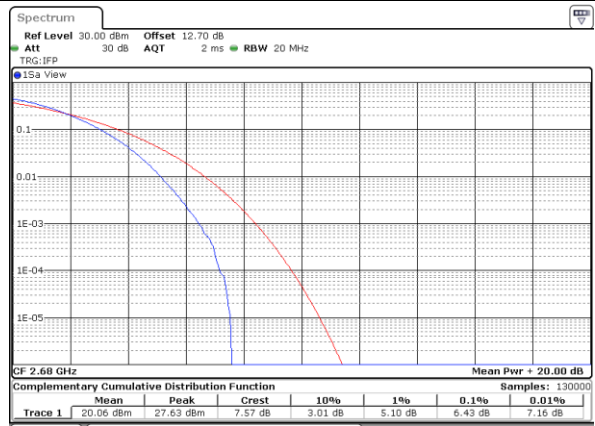
Date: 21 MAY 2020 06:01:53

Highest Channel / 1RB



Date: 21 MAY 2020 06:02:04

Highest Channel / Full RB



Date: 21 MAY 2020 06:02:27



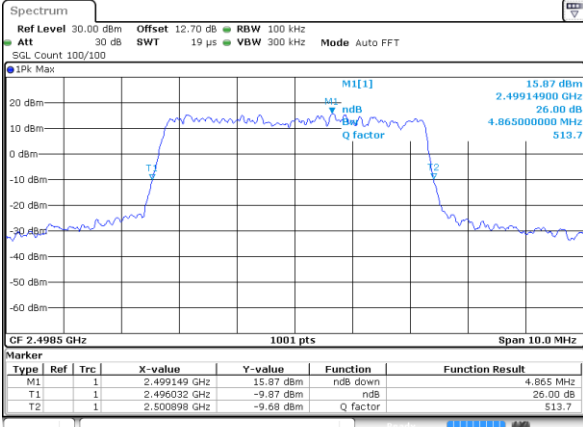
26dB Bandwidth

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	-	-	-	-	4.87	4.91	9.73	9.73	14.36	14.45	18.82	18.78
Middle CH	-	-	-	-	4.94	4.91	9.67	9.81	14.39	14.24	19.14	18.86
Highest CH	-	-	-	-	4.89	4.89	9.75	9.67	14.60	14.24	19.02	18.94
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.90	-	9.71	-	14.30	-	18.90	-
Middle CH	-	-	-	-	4.88	-	9.75	-	14.39	-	18.82	-
Highest CH	-	-	-	-	4.87	-	9.73	-	14.12	-	18.82	-



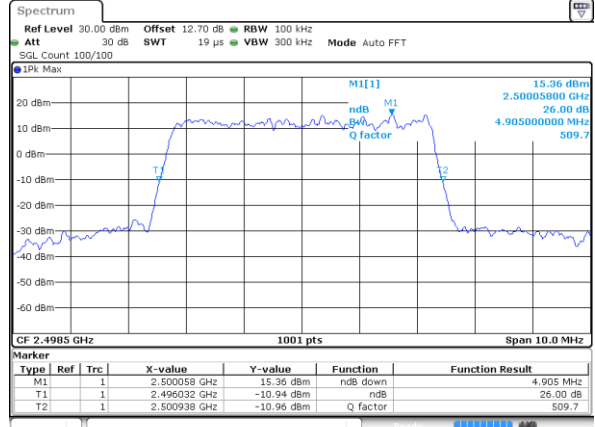
LTE Band 41

Lowest Channel / 5MHz / QPSK



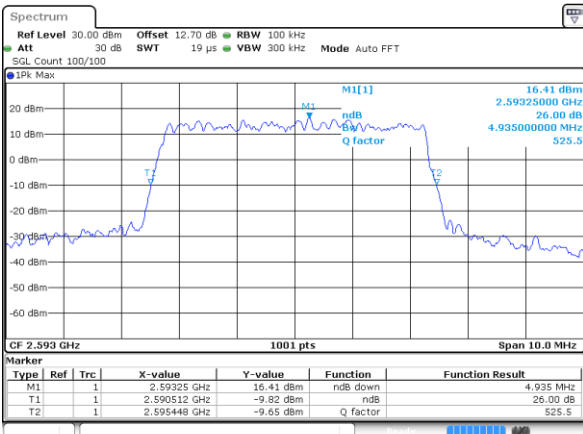
Date: 21 MAY 2020 05:45:59

Lowest Channel / 5MHz / 16QAM



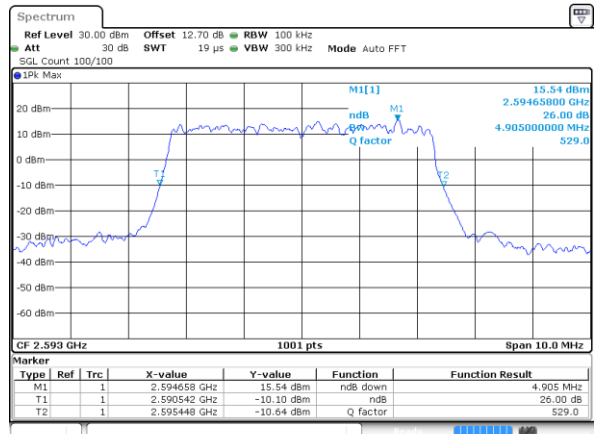
Date: 21 MAY 2020 05:46:11

Middle Channel / 5MHz / QPSK



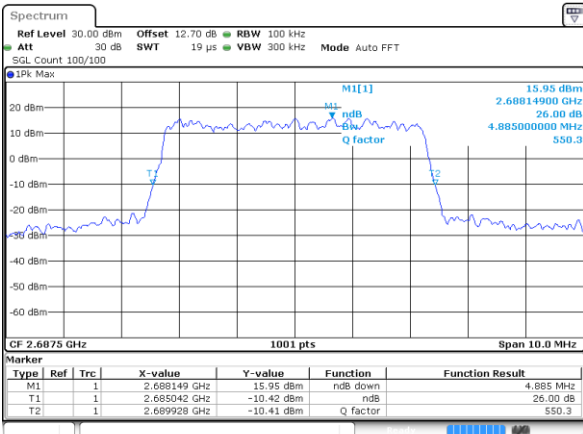
Date: 21 MAY 2020 05:46:46

Middle Channel / 5MHz / 16QAM



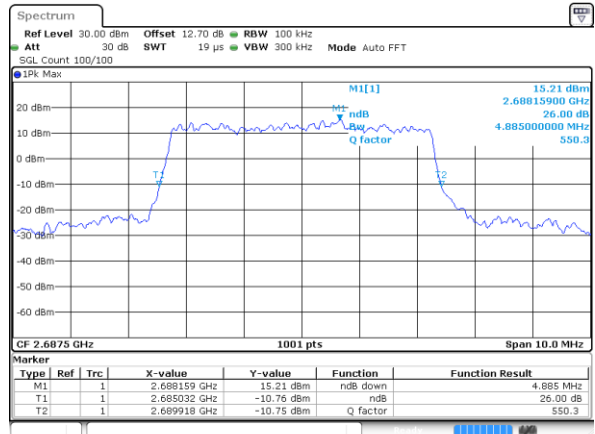
Date: 21 MAY 2020 05:46:58

Highest Channel / 5MHz / QPSK



Date: 21 MAY 2020 05:47:34

Highest Channel / 5MHz / 16QAM

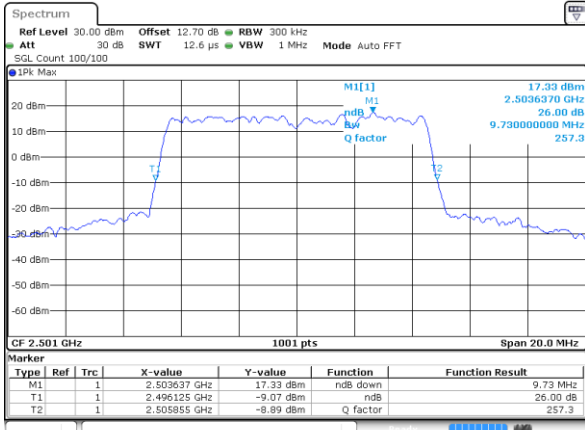


Date: 21 MAY 2020 05:47:46



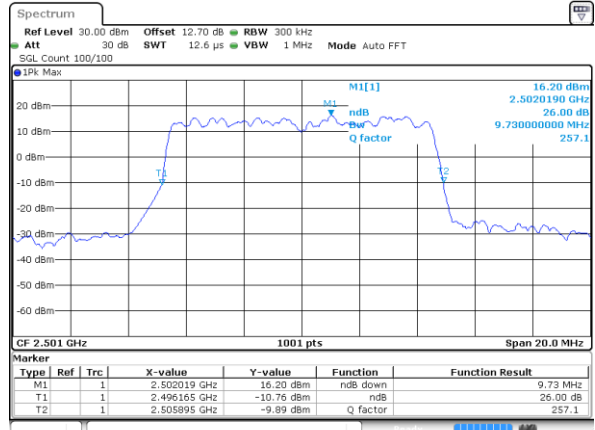
LTE Band 41

Lowest Channel / 10MHz / QPSK



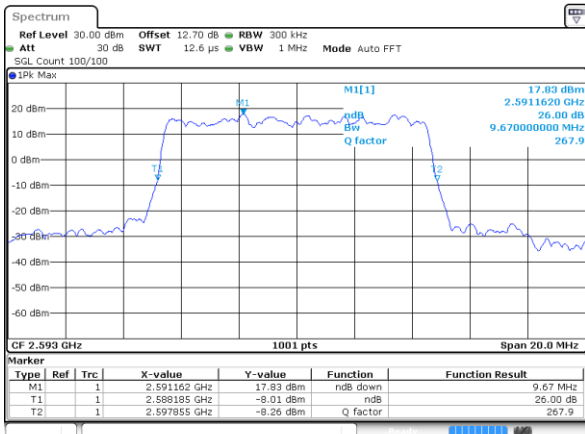
Date: 21 MAY 2020 06:12:23

Lowest Channel / 10MHz / 16QAM



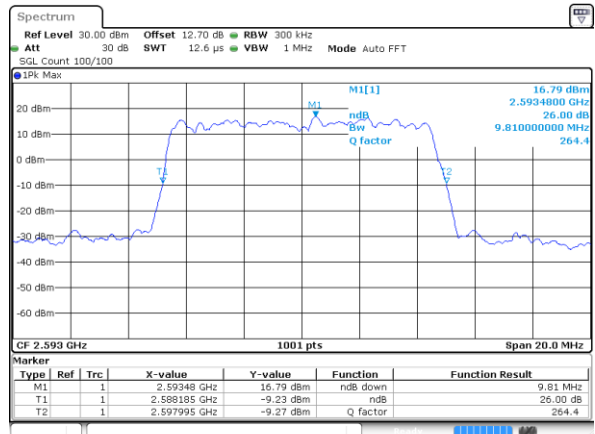
Date: 21 MAY 2020 06:12:53

Middle Channel / 10MHz / QPSK



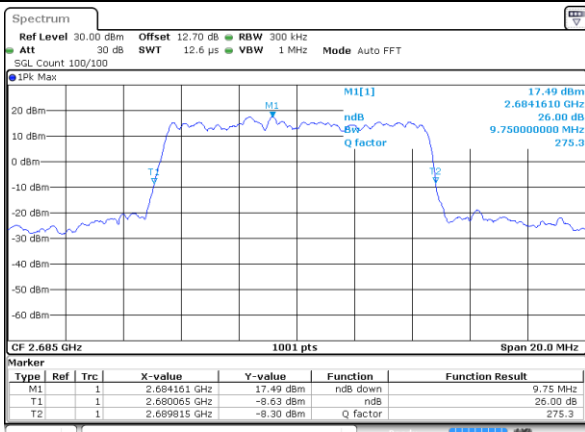
Date: 21 MAY 2020 06:13:29

Middle Channel / 10MHz / 16QAM



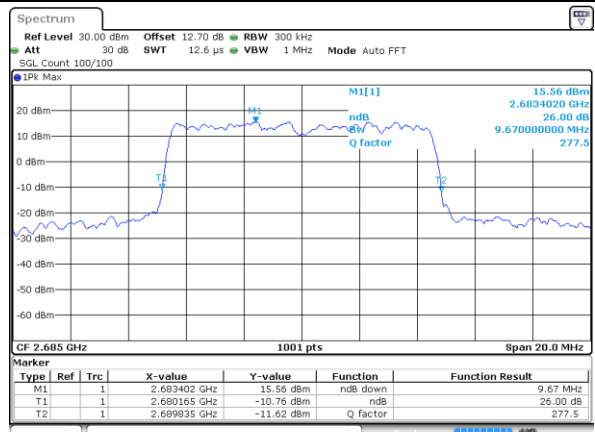
Date: 21 MAY 2020 06:13:41

Highest Channel / 10MHz / QPSK



Date: 21 MAY 2020 06:14:44

Highest Channel / 10MHz / 16QAM

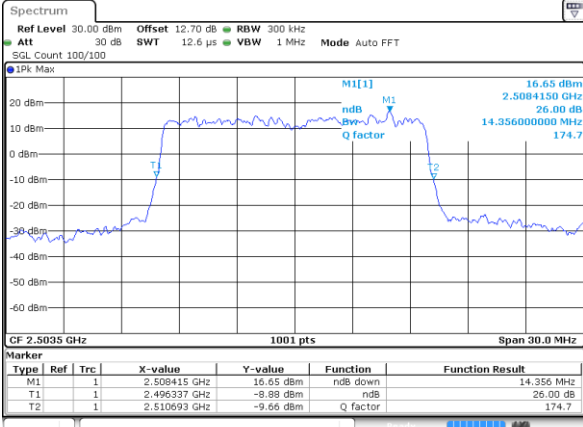


Date: 21 MAY 2020 06:14:59



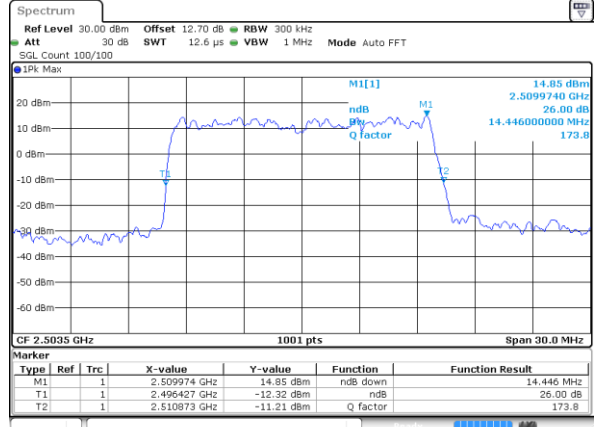
LTE Band 41

Lowest Channel / 15MHz / QPSK



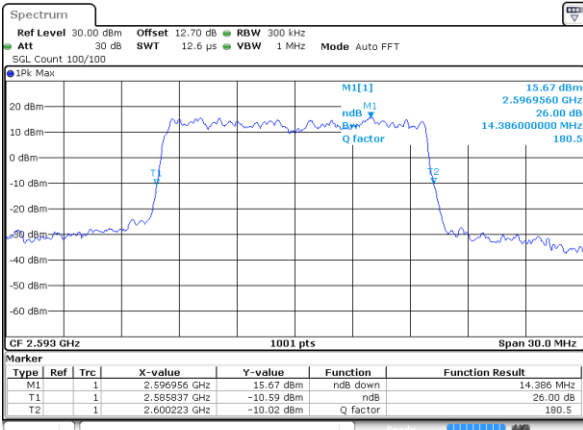
Date: 21 MAY 2020 05:50:49

Lowest Channel / 15MHz / 16QAM



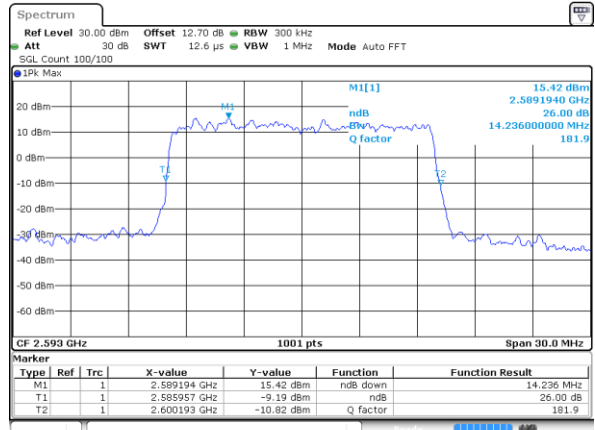
Date: 21 MAY 2020 05:51:01

Middle Channel / 15MHz / QPSK



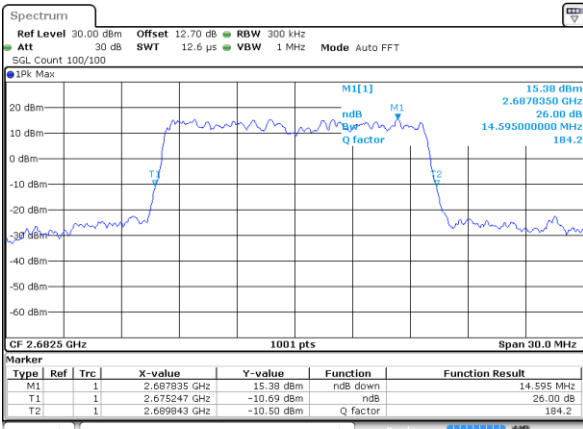
Date: 21 MAY 2020 05:51:36

Middle Channel / 15MHz / 16QAM



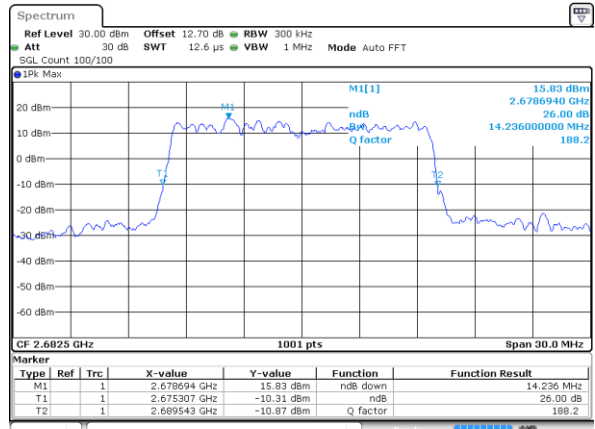
Date: 21 MAY 2020 05:51:47

Highest Channel / 15MHz / QPSK



Date: 21 MAY 2020 05:52:24

Highest Channel / 15MHz / 16QAM

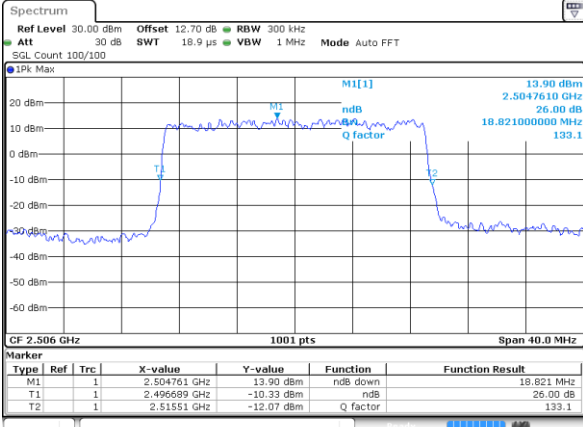


Date: 21 MAY 2020 05:52:36



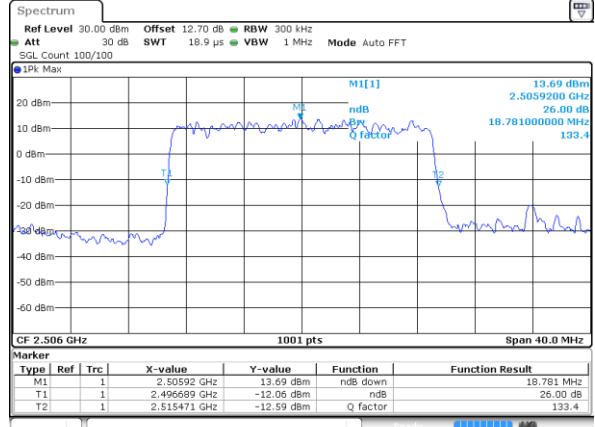
LTE Band 41

Lowest Channel / 20MHz / QPSK



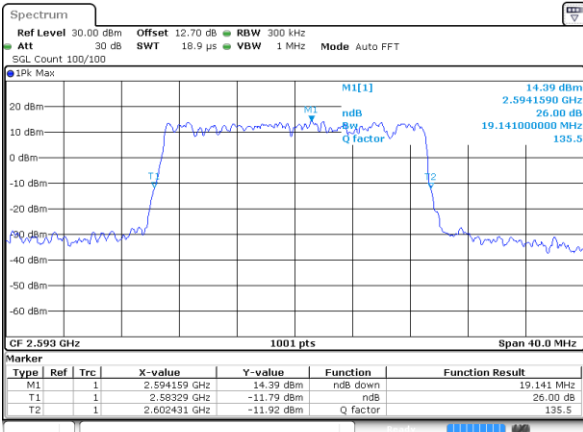
Date: 21 MAY 2020 05:53:14

Lowest Channel / 20MHz / 16QAM



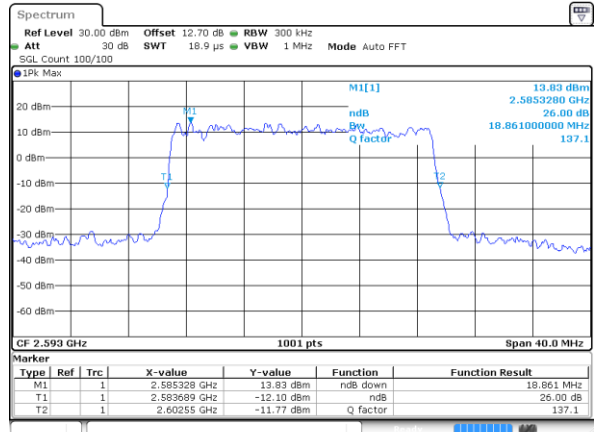
Date: 21 MAY 2020 05:53:26

Middle Channel / 20MHz / QPSK



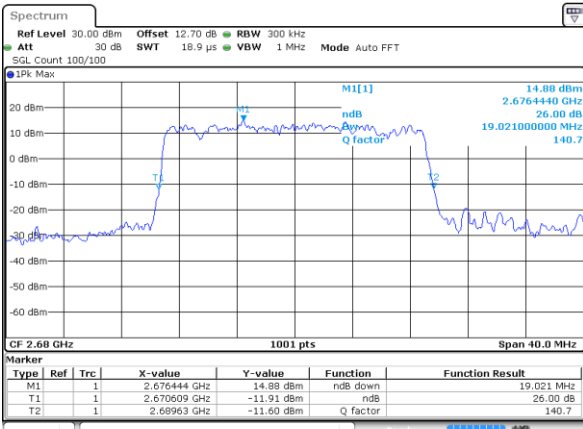
Date: 21 MAY 2020 05:54:01

Middle Channel / 20MHz / 16QAM



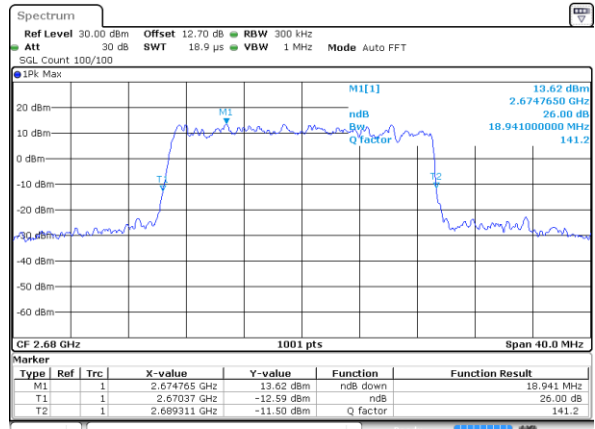
Date: 21 MAY 2020 05:54:13

Highest Channel / 20MHz / QPSK



Date: 21 MAY 2020 05:54:48

Highest Channel / 20MHz / 16QAM

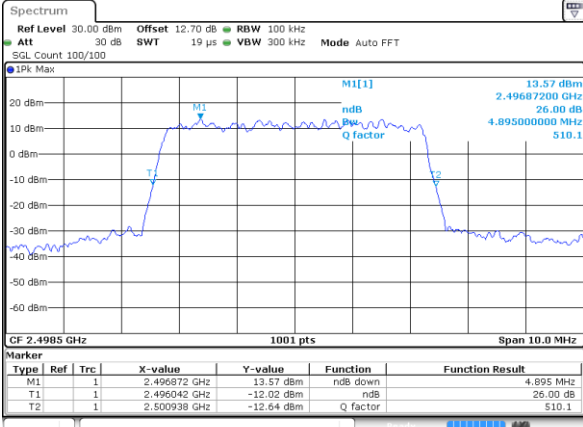


Date: 21 MAY 2020 05:55:01



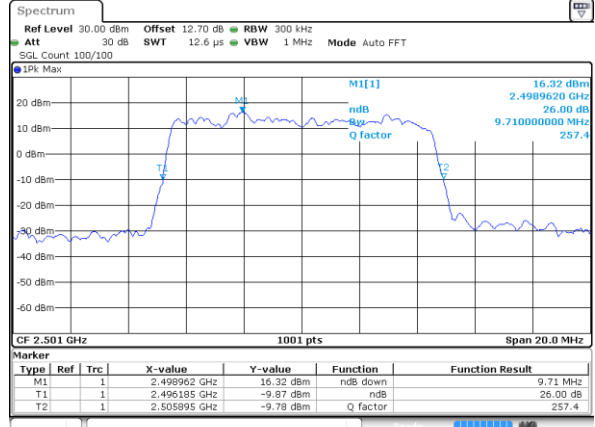
LTE Band 41

Lowest Channel / 5MHz / 64QAM



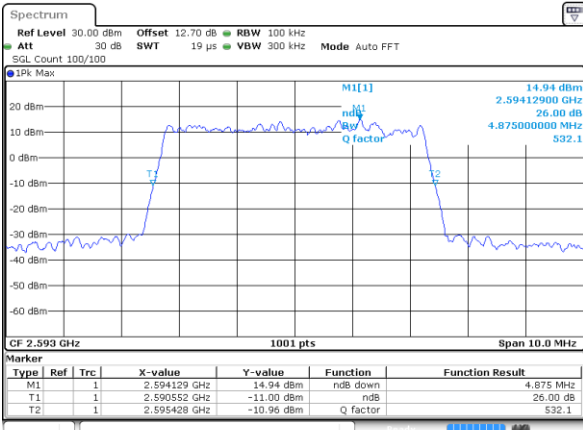
Date: 21 MAY 2020 05:55:26

Lowest Channel / 10MHz / 64QAM



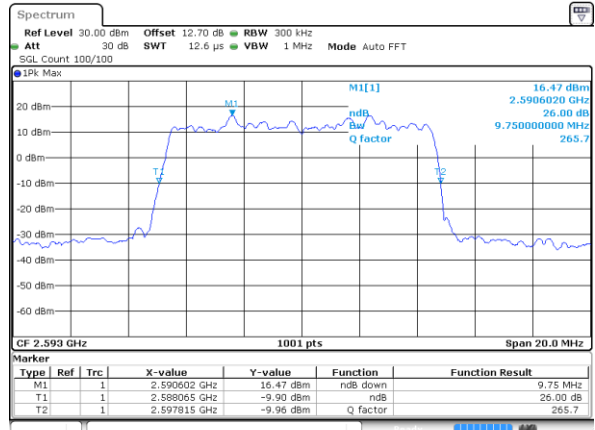
Date: 21 MAY 2020 06:15:32

Middle Channel / 5MHz / 64QAM



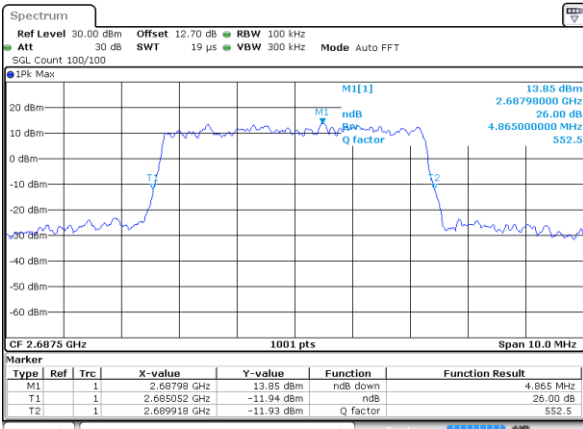
Date: 21 MAY 2020 05:55:50

Middle Channel / 10MHz / 64QAM



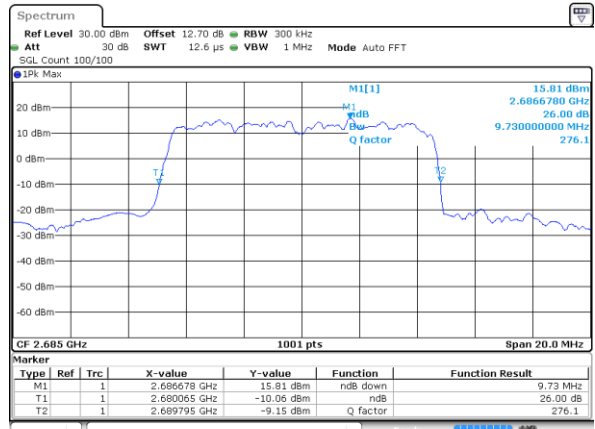
Date: 21 MAY 2020 06:15:56

Highest Channel / 5MHz / 64QAM



Date: 21 MAY 2020 05:56:13

Highest Channel / 10MHz / 64QAM

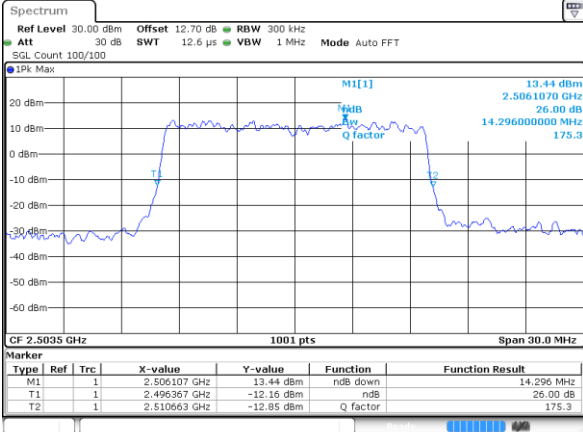


Date: 21 MAY 2020 06:16:25



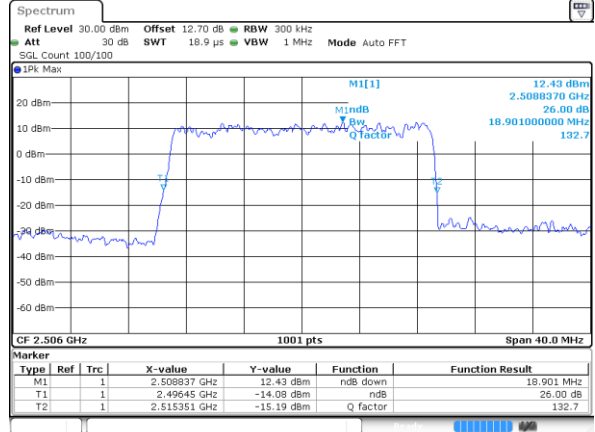
LTE Band 41

Lowest Channel / 15MHz / 64QAM



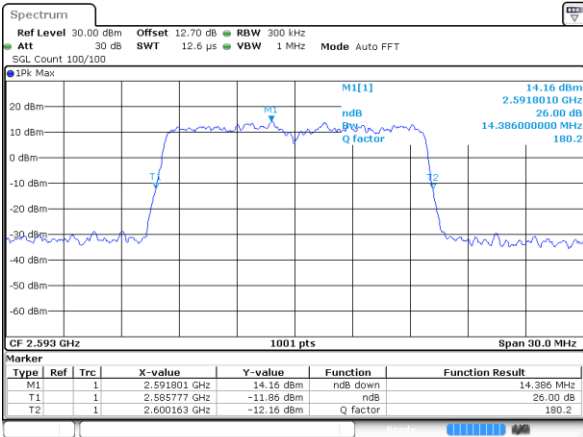
Date: 21 MAY 2020 05:57:52

Lowest Channel / 20MHz / 64QAM



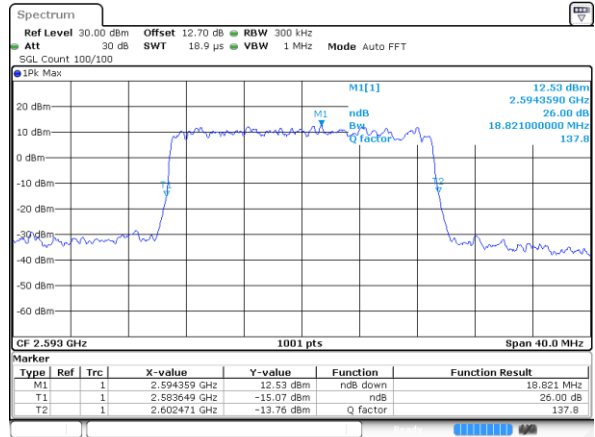
Date: 21 MAY 2020 05:58:06

Middle Channel / 15MHz / 64QAM



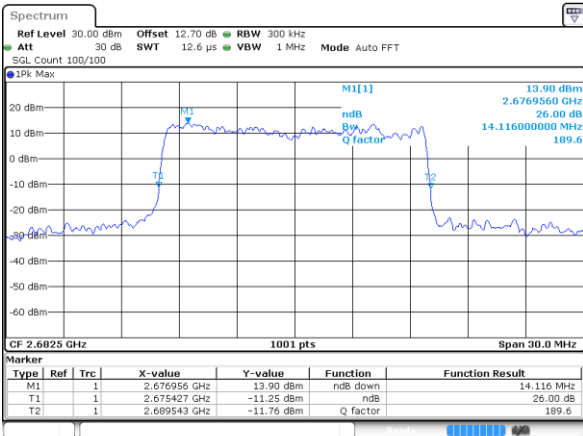
Date: 21 MAY 2020 05:58:16

Middle Channel / 20MHz / 64QAM



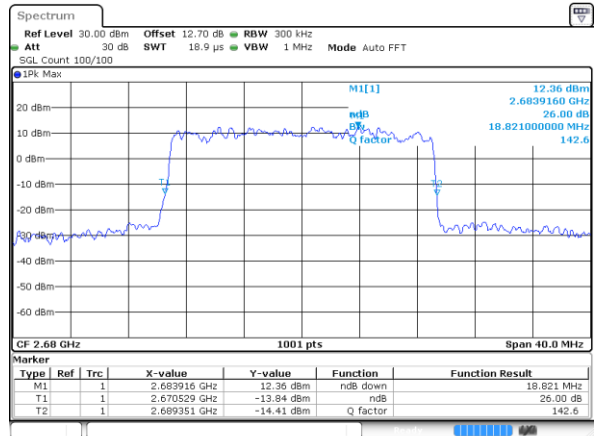
Date: 21 MAY 2020 05:58:29

Highest Channel / 15MHz / 64QAM



Date: 21 MAY 2020 05:58:40

Highest Channel / 20MHz / 64QAM



Date: 21 MAY 2020 05:58:53



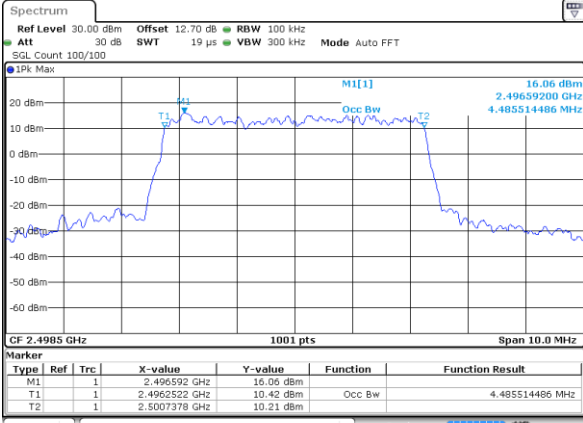
Occupied Bandwidth

LTE Band 41 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.49	9.07	9.03	13.49	13.43	17.86	17.82
Middle CH	-	-	-	-	4.50	4.49	9.05	9.07	13.43	13.43	17.82	17.90
Highest CH	-	-	-	-	4.48	4.51	8.95	9.05	13.43	13.40	17.86	17.86
LTE Band 41 : 99%OBW(MHz)												
Mode	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51	-	9.03	-	13.43	-	17.90	-
Middle CH	-	-	-	-	4.50	-	8.99	-	13.43	-	17.82	-
Highest CH	-	-	-	-	4.49	-	9.03	-	13.46	-	17.78	-



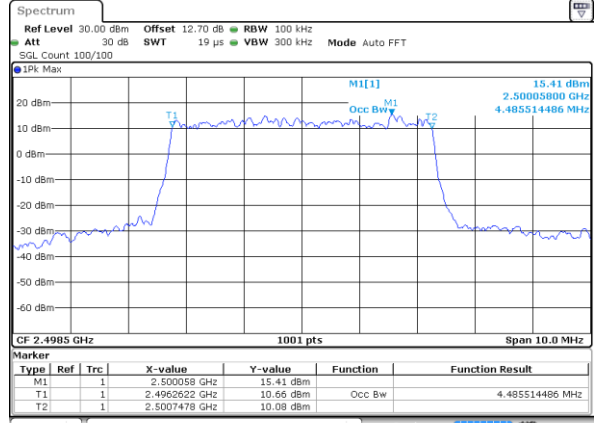
LTE Band 41

Lowest Channel / 5MHz / QPSK



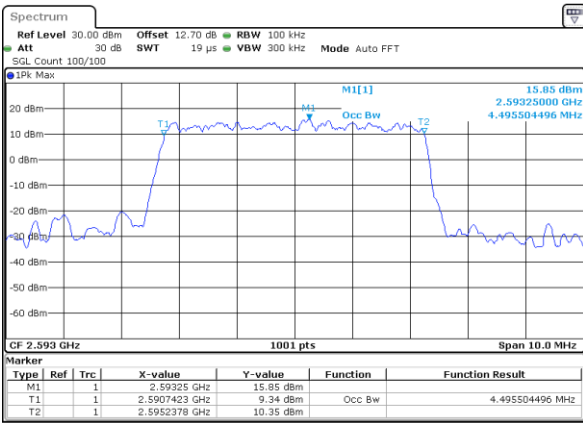
Date: 21 MAY 2020 05:45:35

Lowest Channel / 5MHz / 16QAM



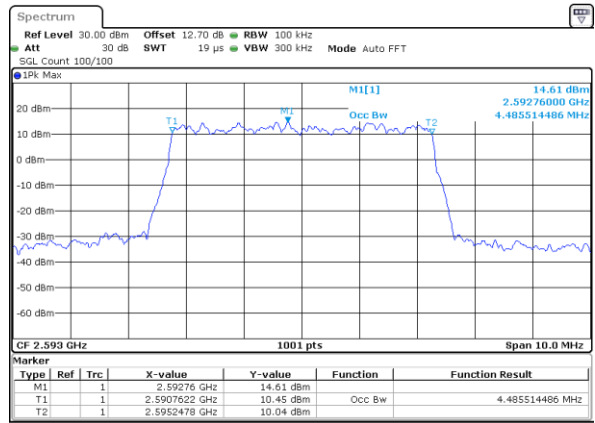
Date: 21 MAY 2020 05:45:47

Middle Channel / 5MHz / QPSK



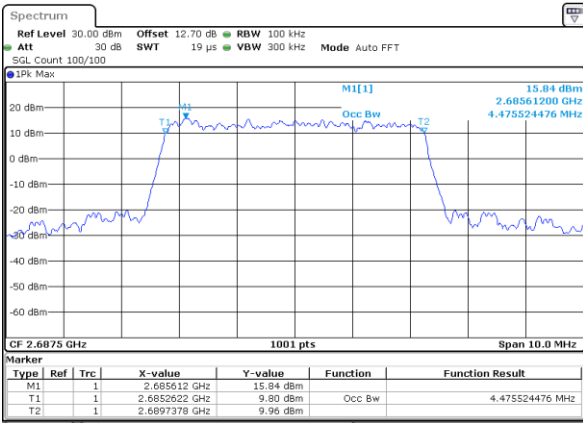
Date: 21 MAY 2020 05:46:23

Middle Channel / 5MHz / 16QAM



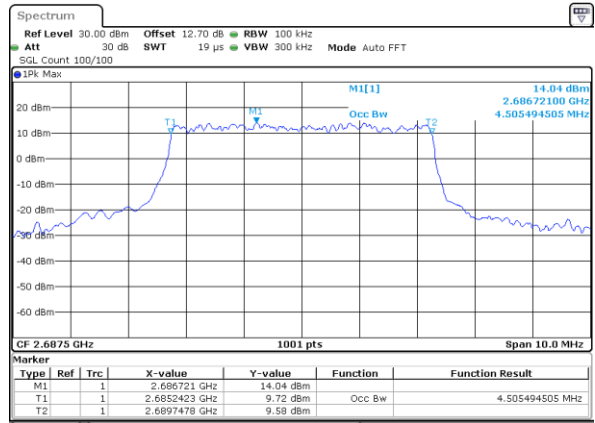
Date: 21 MAY 2020 05:46:35

Highest Channel / 5MHz / QPSK



Date: 21 MAY 2020 05:47:10

Highest Channel / 5MHz / 16QAM



Date: 21 MAY 2020 05:47:22