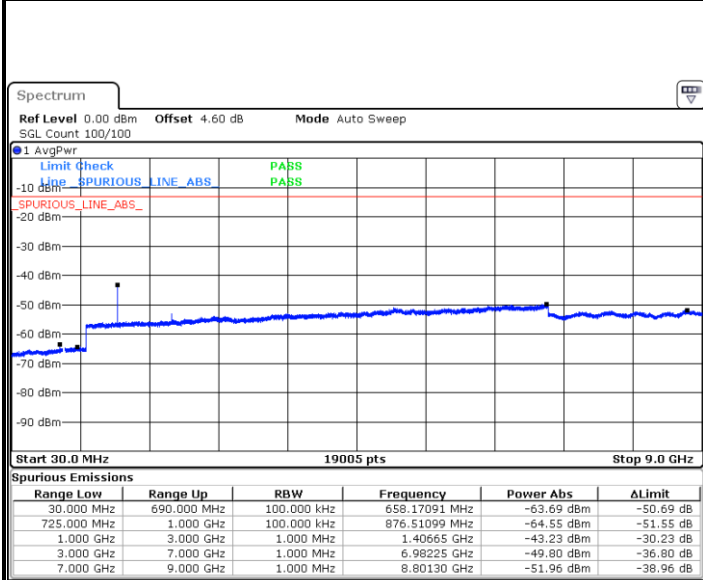




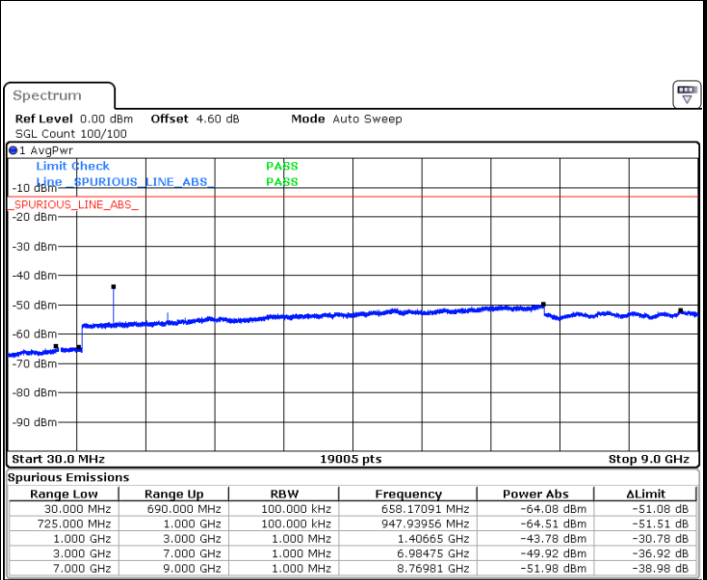
LTE Band 12 / 10MHz

Middle Channel / QPSK



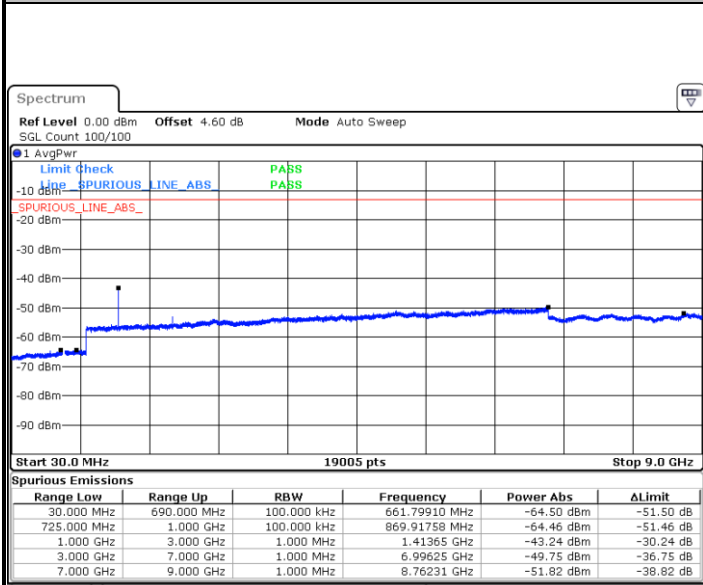
Date: 20 MAY 2020 15:39:06

Middle Channel / 16QAM



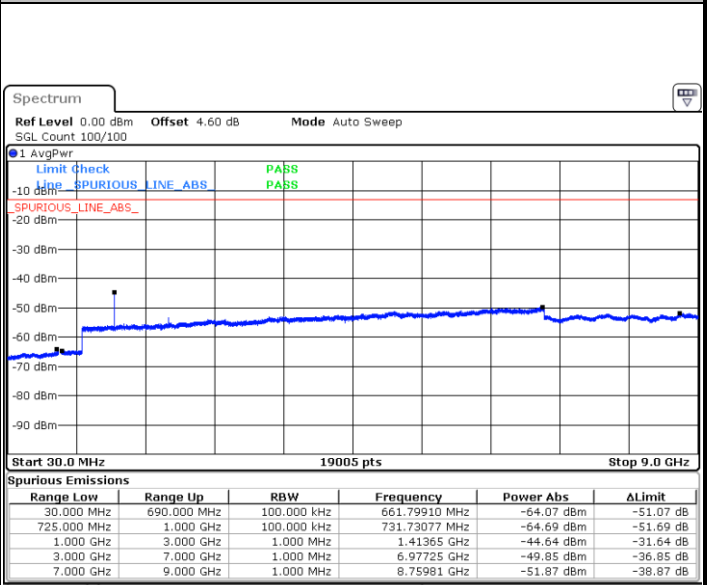
Date: 20 MAY 2020 15:38:12

Highest Channel / QPSK



Date: 20 MAY 2020 15:40:01

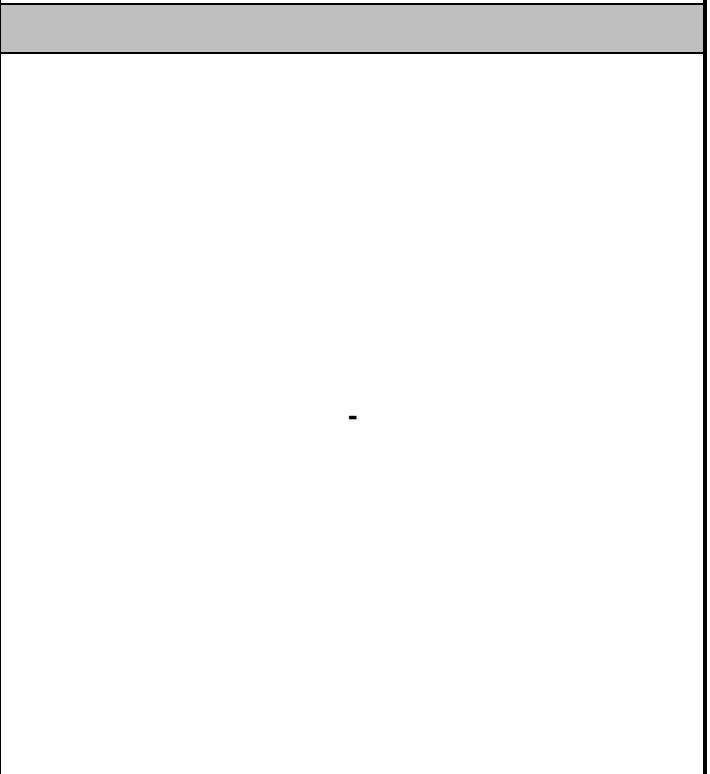
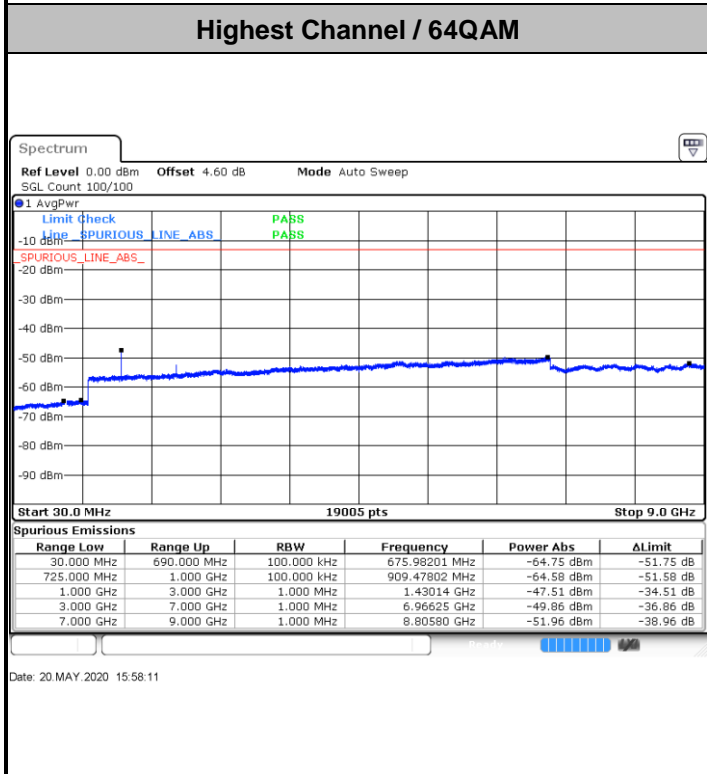
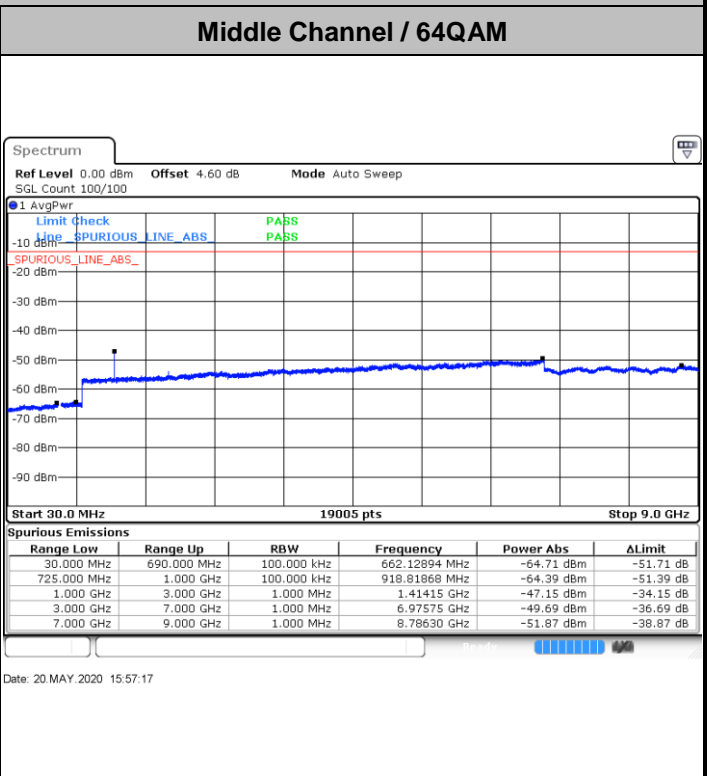
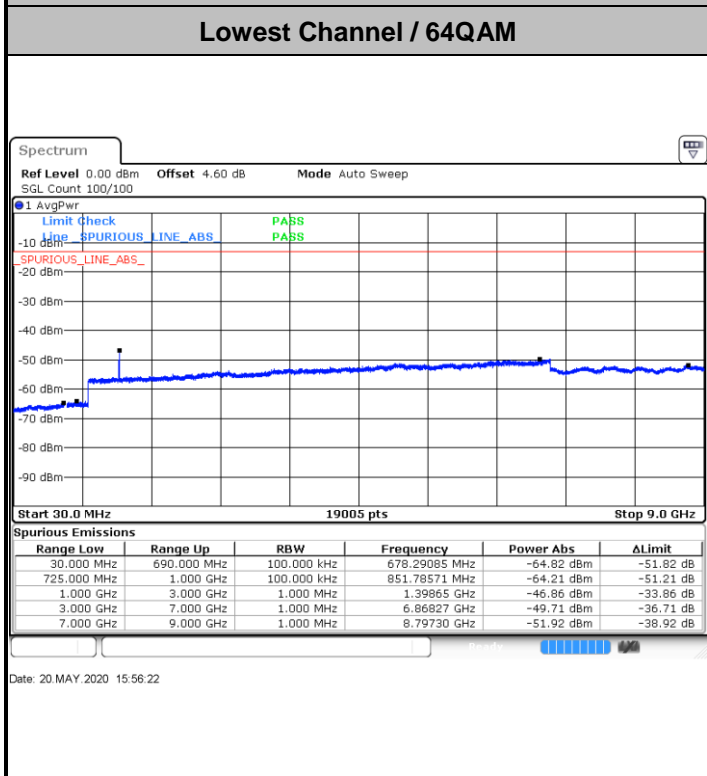
Highest Channel / 16QAM



Date: 20 MAY 2020 15:40:56



**LTE Band 12 / 1.4MHz**

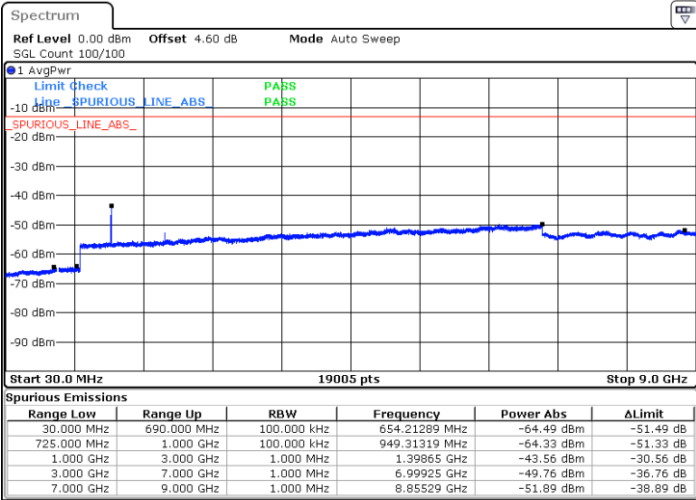




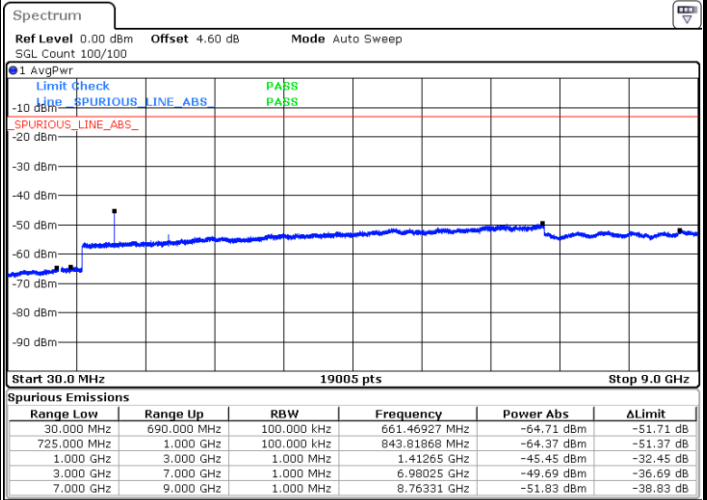
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

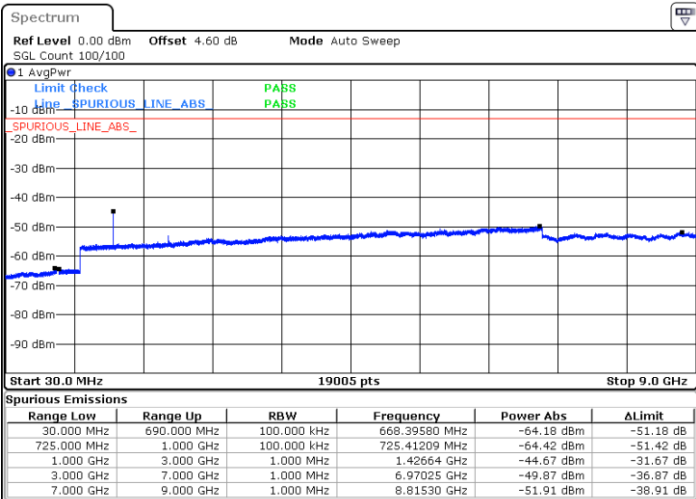


Date: 20 MAY 2020 15:59:06



Date: 20 MAY 2020 16:00:01

Highest Channel / 64QAM



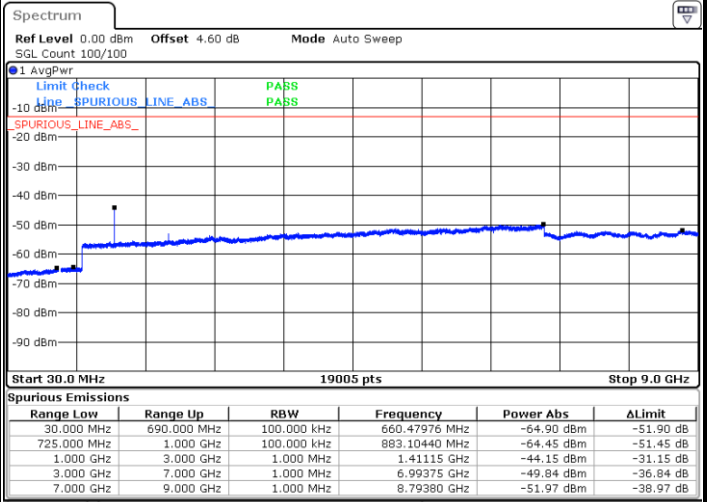
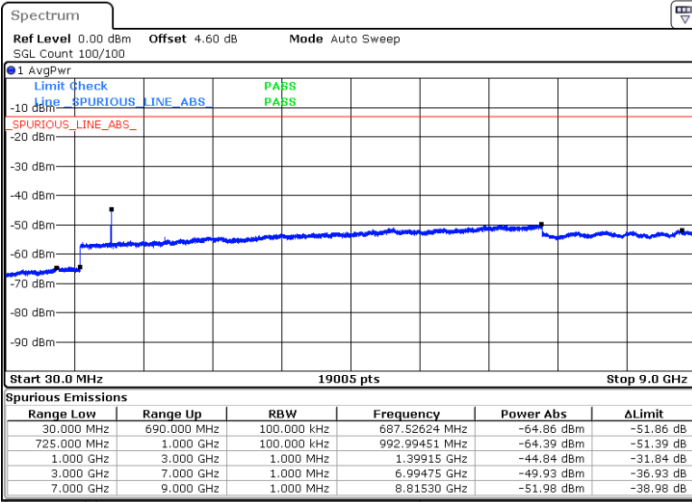
Date: 20 MAY 2020 16:00:56



LTE Band 12 / 5MHz

Lowest Channel / 64QAM

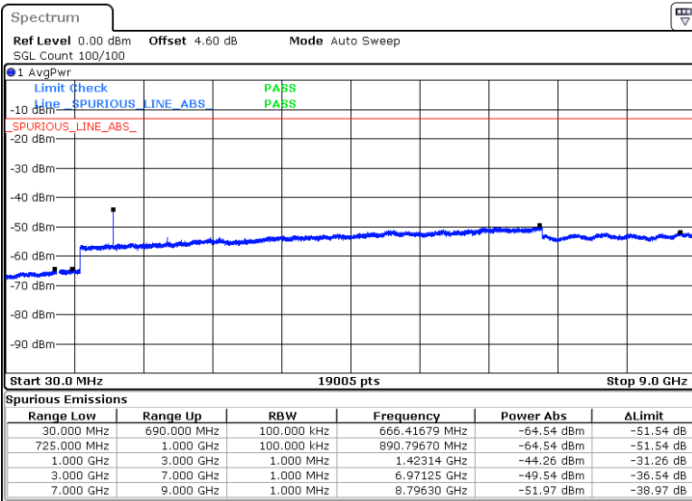
Middle Channel / 64QAM



Date: 20 MAY 2020 16:12:52

Date: 20 MAY 2020 16:13:47

Highest Channel / 64QAM



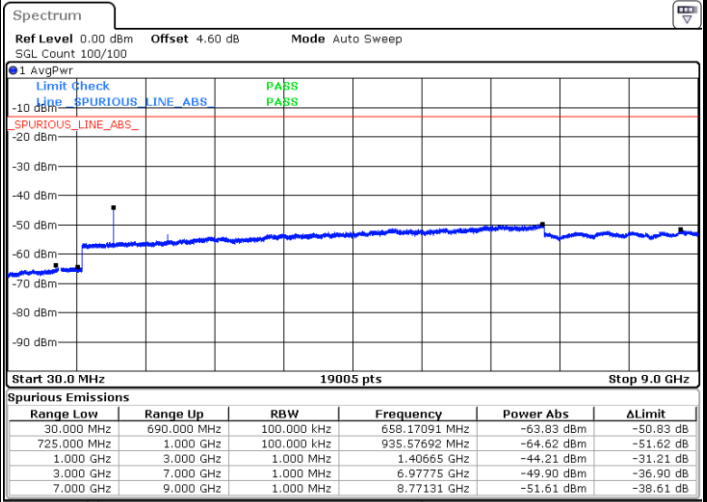
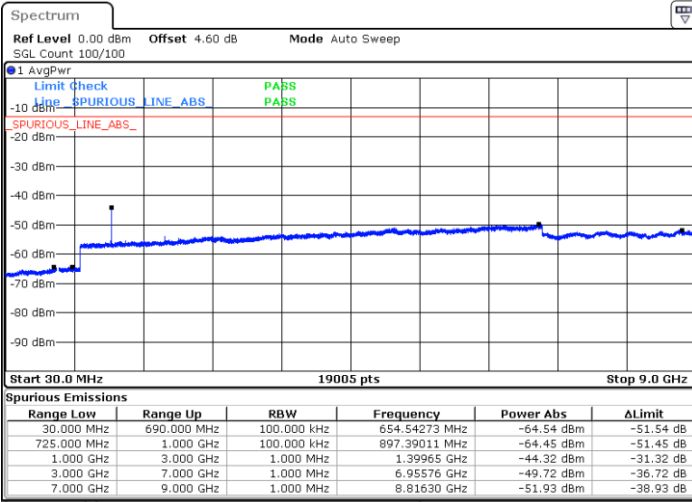
Date: 20 MAY 2020 16:14:41



LTE Band 12 / 10MHz

Lowest Channel / 64QAM

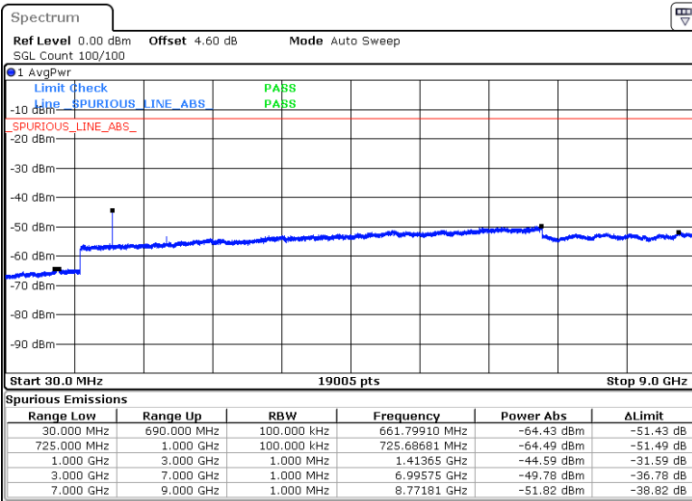
Middle Channel / 64QAM



Date: 20 MAY 2020 16:15:36

Date: 20 MAY 2020 16:16:31

Highest Channel / 64QAM



Date: 20 MAY 2020 16:17:26



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	0.0011	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0090	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0098	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0076	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0107	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41

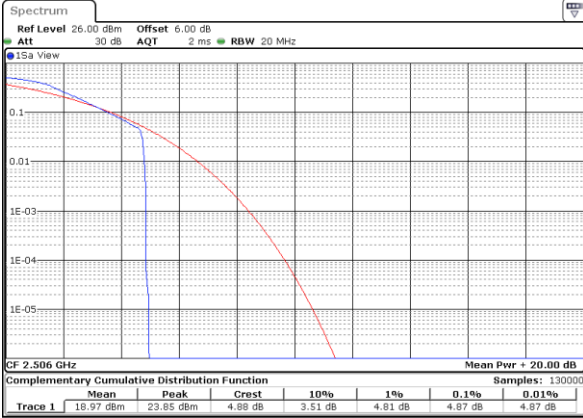
## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.87	6.52	5.71	6.32	PASS
Middle CH	4.84	5.57	6.23	6.29	
Highest CH	3.54	6.12	5.57	6.23	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.88	6.96	-	-	PASS
Middle CH	6.84	6.64	-	-	
Highest CH	5.42	6.49	-	-	



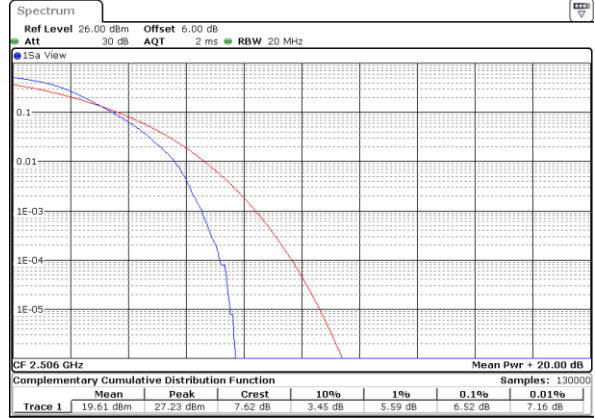
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



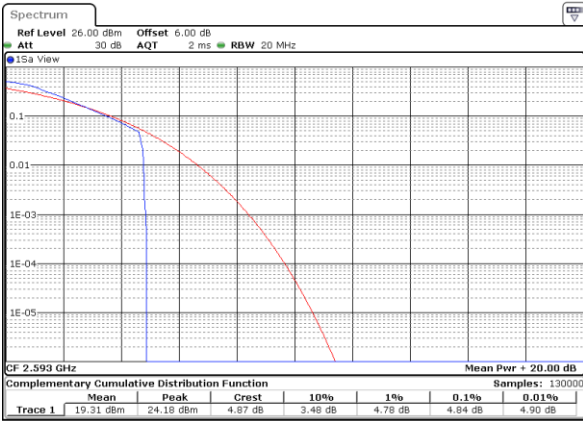
Date: 21 MAY 2020 22:19:14

Lowest Channel / Full RB



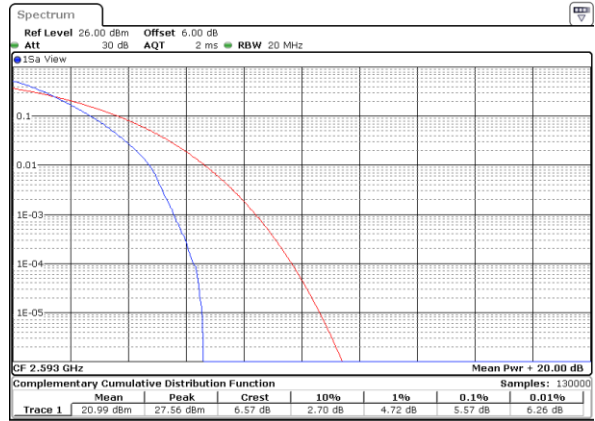
Date: 21 MAY 2020 22:19:23

Middle Channel / 1RB



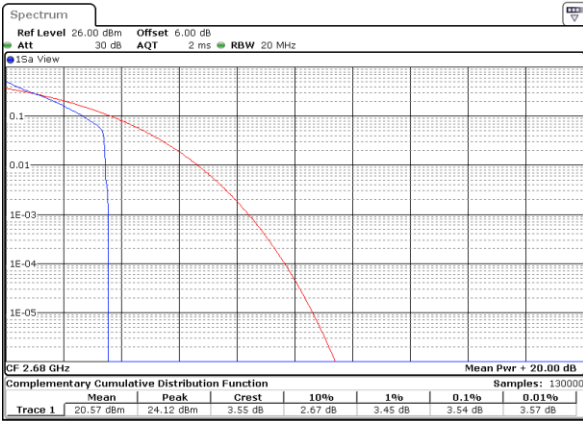
Date: 21 MAY 2020 22:19:44

Middle Channel / Full RB



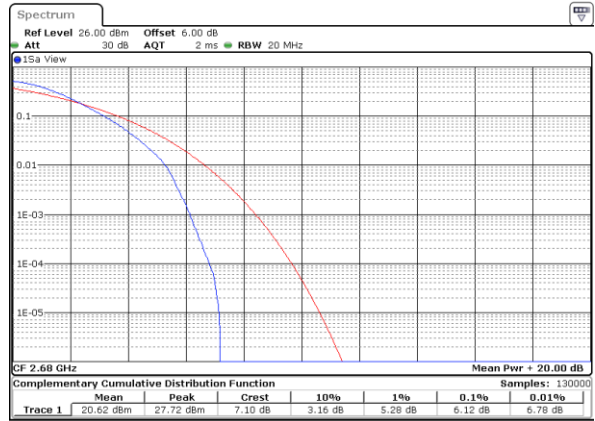
Date: 21 MAY 2020 22:19:54

Highest Channel / 1RB



Date: 21 MAY 2020 22:20:02

Highest Channel / Full RB



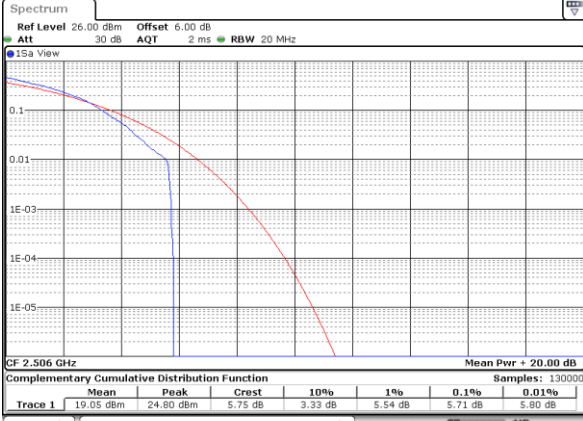
Date: 21 MAY 2020 22:20:37





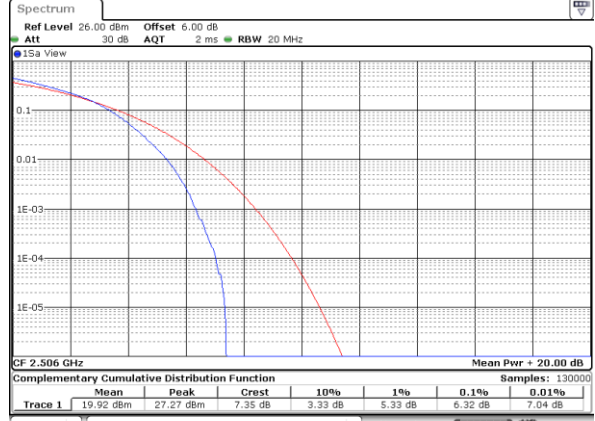
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



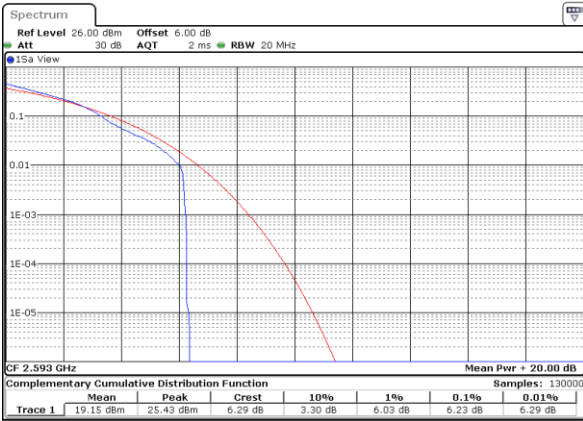
Date: 21 MAY 2020 22:17:10

Lowest Channel / Full RB



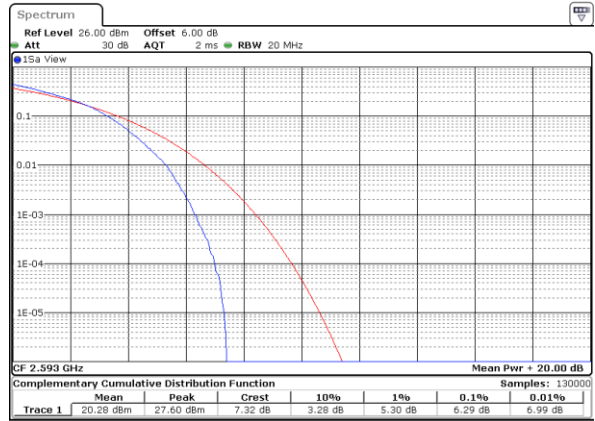
Date: 21 MAY 2020 22:17:28

Middle Channel / 1RB



Date: 21 MAY 2020 22:17:52

Middle Channel / Full RB



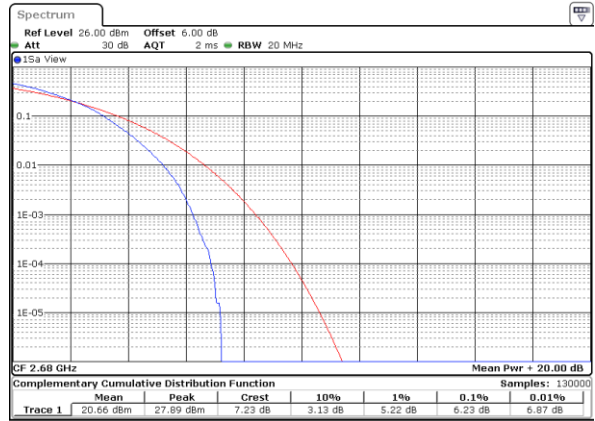
Date: 21 MAY 2020 22:18:17

Highest Channel / 1RB



Date: 21 MAY 2020 22:18:39

Highest Channel / Full RB

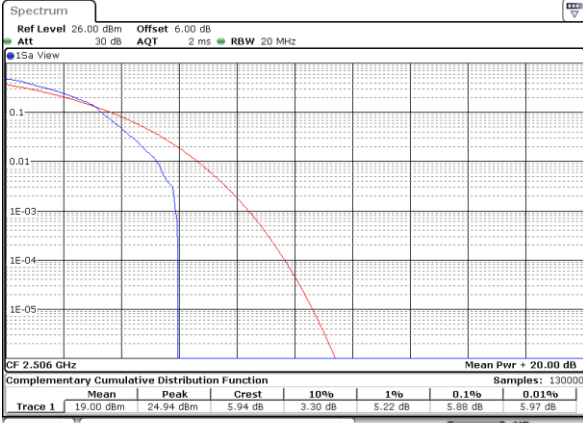


Date: 21 MAY 2020 22:19:01



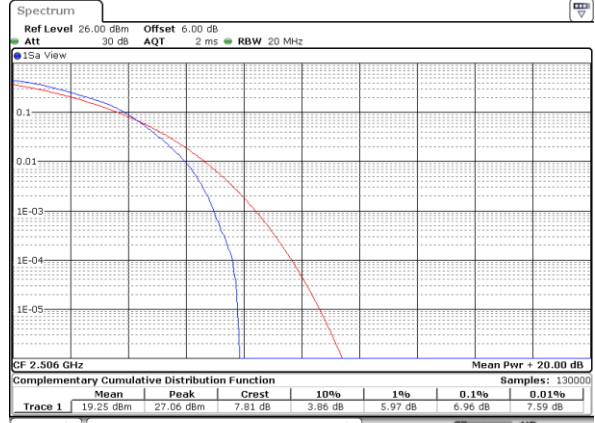
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



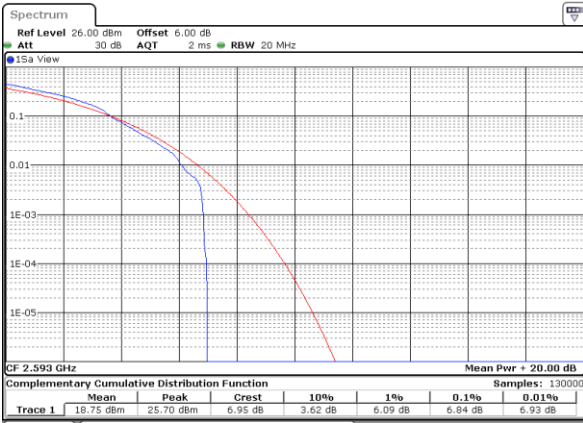
Date: 21 MAY 2020 22:21:16

Lowest Channel / Full RB



Date: 21 MAY 2020 22:21:02

Middle Channel / 1RB



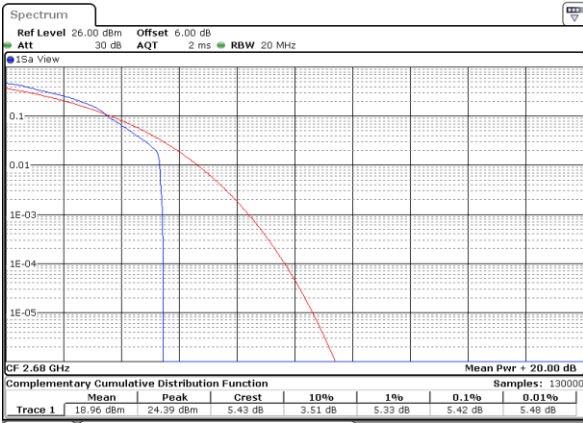
Date: 21 MAY 2020 22:21:26

Middle Channel / Full RB



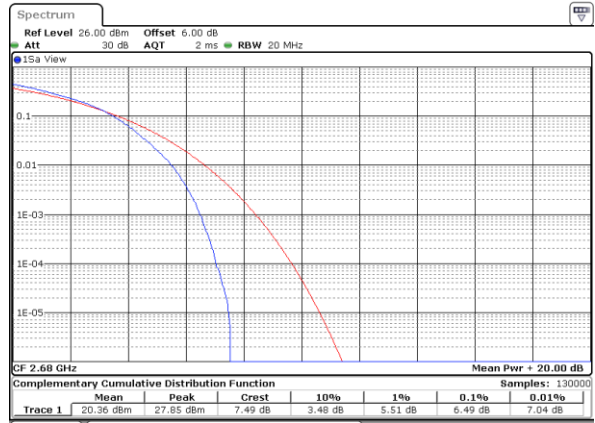
Date: 21 MAY 2020 22:21:36

Highest Channel / 1RB



Date: 21 MAY 2020 22:22:20

Highest Channel / Full RB



Date: 21 MAY 2020 22:22:02



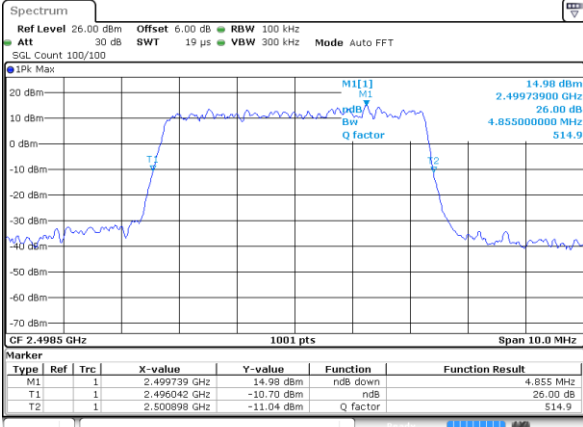
26dB Bandwidth

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	-	-	-	-	4.86	4.81	9.77	9.79	14.54	14.12	20.22	20.14
Middle CH	-	-	-	-	4.80	4.83	9.77	9.61	14.18	14.15	20.10	20.14
Highest CH	-	-	-	-	4.88	4.84	9.75	9.65	14.18	14.48	20.02	20.06
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.72	-	9.65	-	14.18	-	20.18	-
Middle CH	-	-	-	-	4.81	-	9.73	-	14.12	-	20.34	-
Highest CH	-	-	-	-	4.72	-	9.71	-	14.18	-	20.14	-



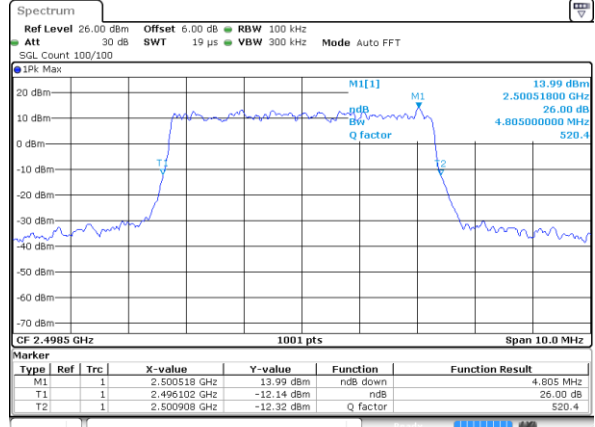
LTE Band 41

Lowest Channel / 5MHz / QPSK



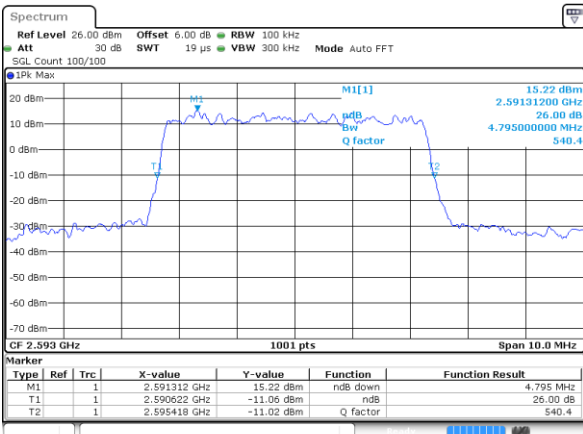
Date: 21 MAY 2020 22:09:14

Lowest Channel / 5MHz / 16QAM



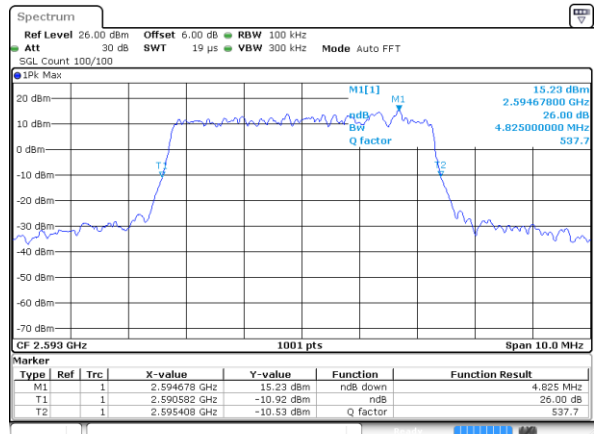
Date: 21 MAY 2020 22:09:24

Middle Channel / 5MHz / QPSK



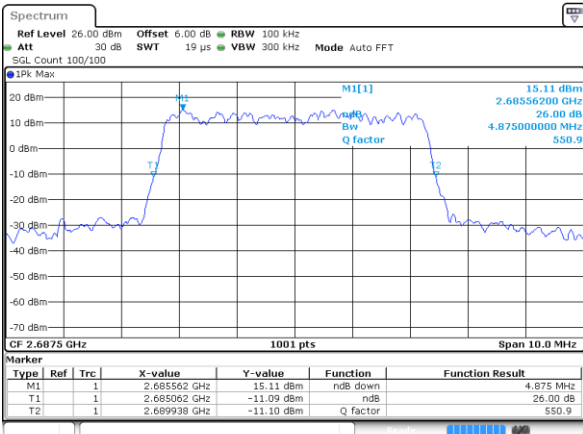
Date: 21 MAY 2020 22:09:54

Middle Channel / 5MHz / 16QAM



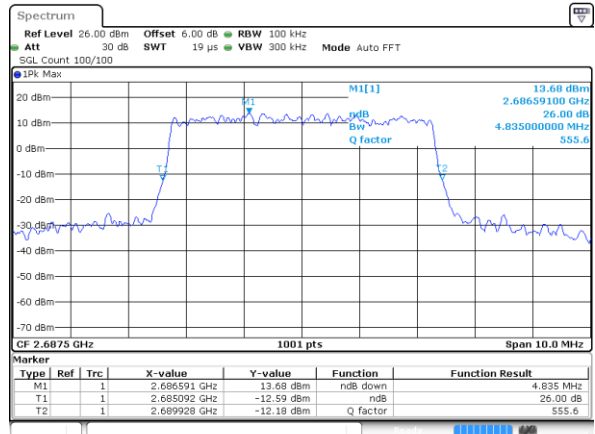
Date: 21 MAY 2020 22:10:04

Highest Channel / 5MHz / QPSK



Date: 21 MAY 2020 22:10:34

Highest Channel / 5MHz / 16QAM

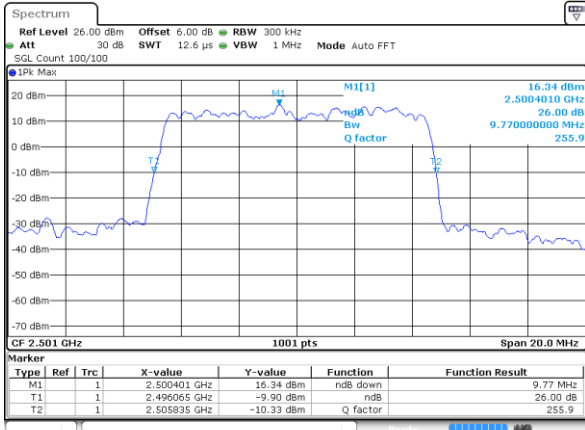


Date: 21 MAY 2020 22:10:44



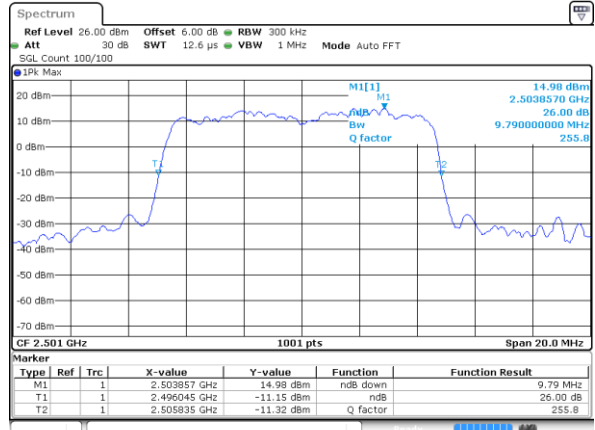
LTE Band 41

Lowest Channel / 10MHz / QPSK



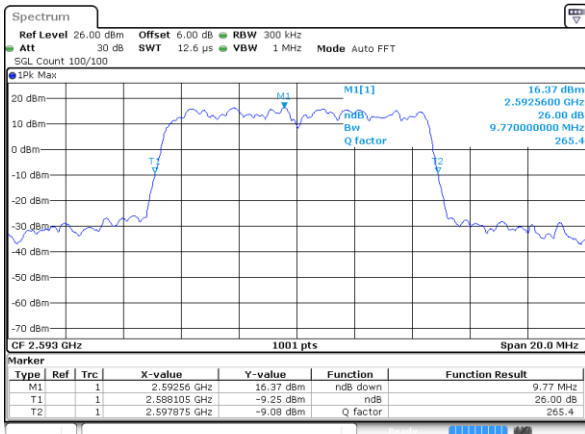
Date: 21 MAY 2020 22:11:14

Lowest Channel / 10MHz / 16QAM



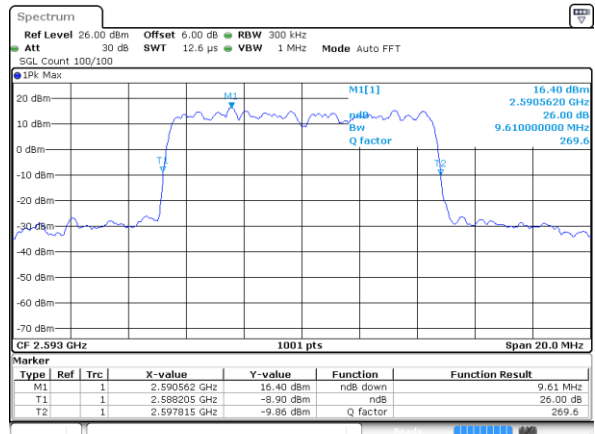
Date: 21 MAY 2020 22:11:24

Middle Channel / 10MHz / QPSK



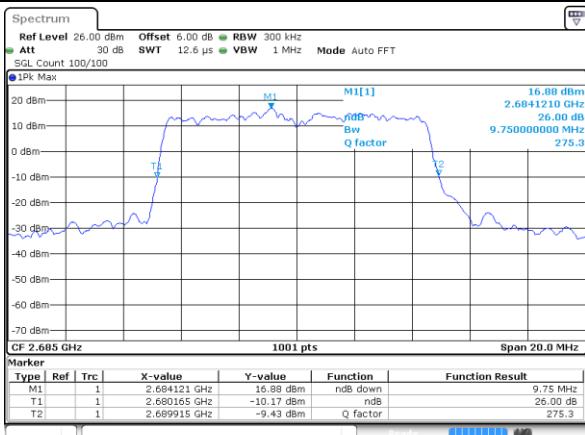
Date: 21 MAY 2020 22:11:54

Middle Channel / 10MHz / 16QAM



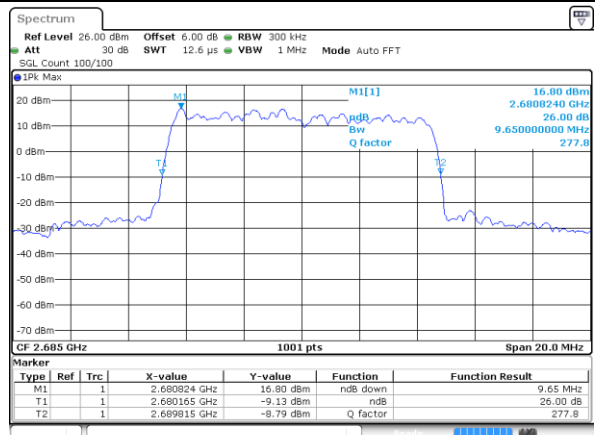
Date: 21 MAY 2020 22:12:04

Highest Channel / 10MHz / QPSK



Date: 21 MAY 2020 22:12:35

Highest Channel / 10MHz / 16QAM

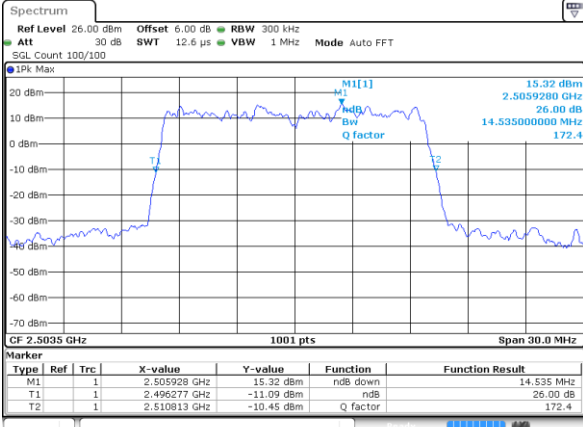


Date: 21 MAY 2020 22:12:45



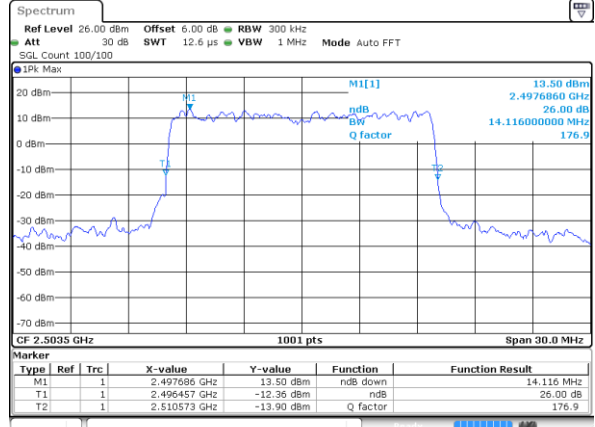
LTE Band 41

Lowest Channel / 15MHz / QPSK



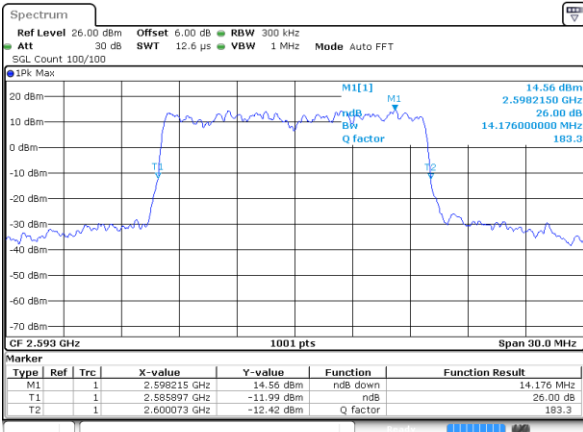
Date: 21 MAY 2020 22:13:15

Lowest Channel / 15MHz / 16QAM



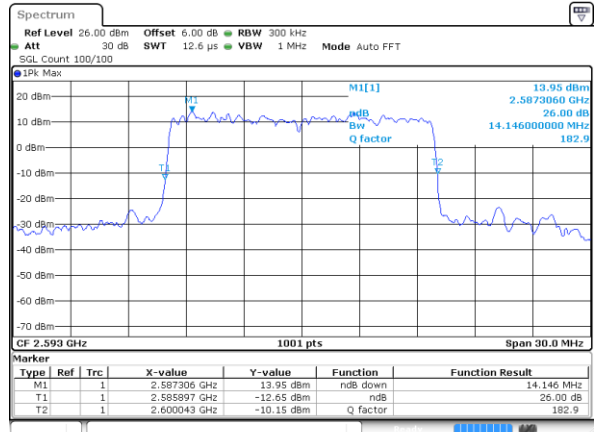
Date: 21 MAY 2020 22:13:25

Middle Channel / 15MHz / QPSK



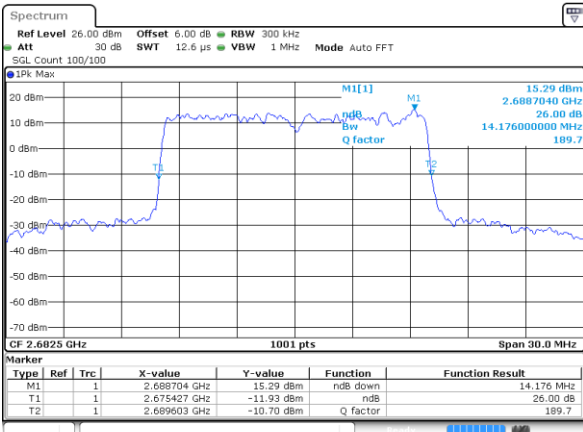
Date: 21 MAY 2020 22:13:55

Middle Channel / 15MHz / 16QAM



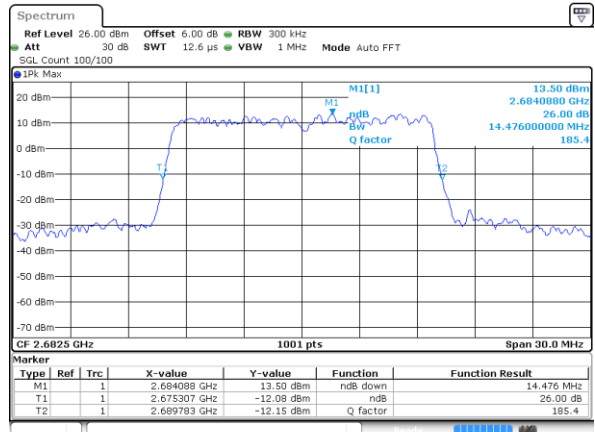
Date: 21 MAY 2020 22:14:05

Highest Channel / 15MHz / QPSK



Date: 21 MAY 2020 22:14:35

Highest Channel / 15MHz / 16QAM

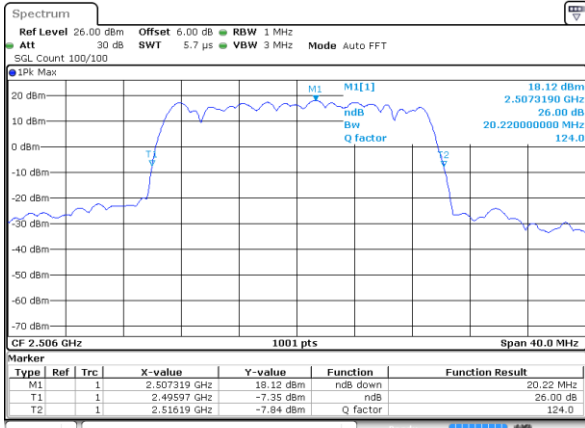


Date: 21 MAY 2020 22:14:45



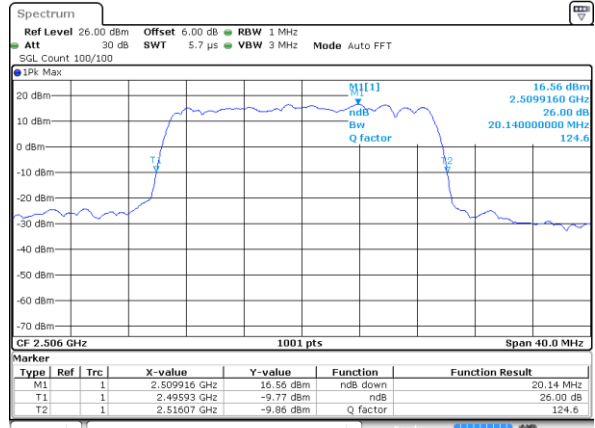
LTE Band 41

Lowest Channel / 20MHz / QPSK



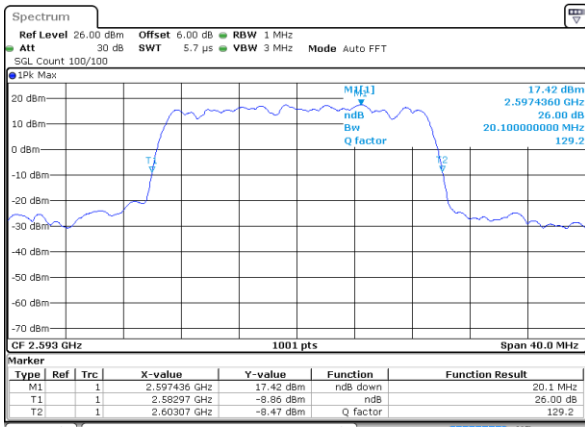
Date: 21 MAY 2020 22:15:15

Lowest Channel / 20MHz / 16QAM



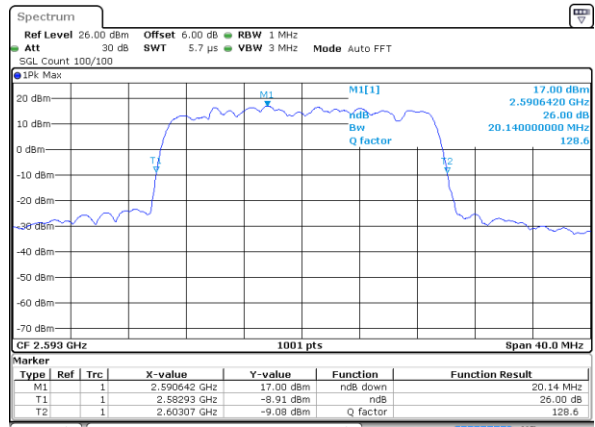
Date: 21 MAY 2020 22:15:25

Middle Channel / 20MHz / QPSK



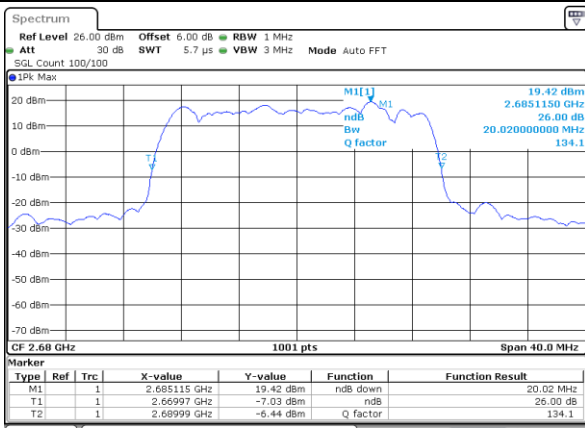
Date: 21 MAY 2020 22:15:55

Middle Channel / 20MHz / 16QAM



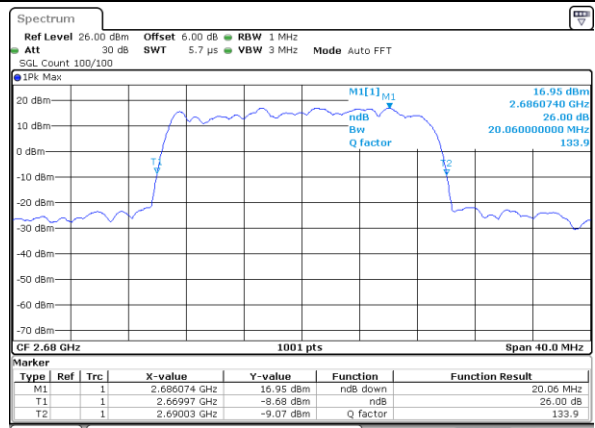
Date: 21 MAY 2020 22:16:05

Highest Channel / 20MHz / QPSK



Date: 21 MAY 2020 22:16:35

Highest Channel / 20MHz / 16QAM

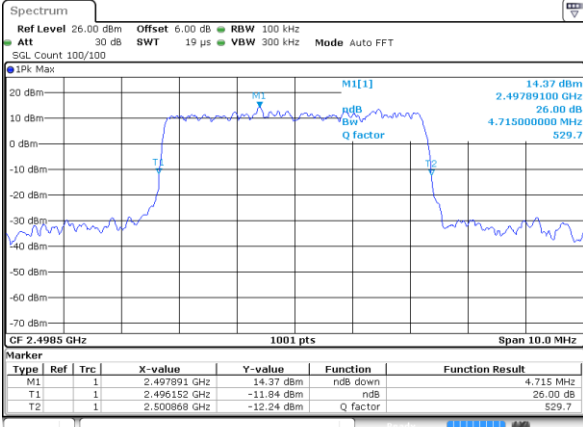


Date: 21 MAY 2020 22:16:45



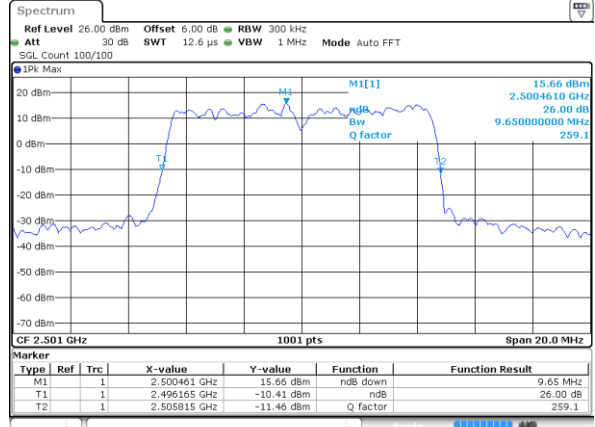
LTE Band 41

Lowest Channel / 5MHz / 64QAM



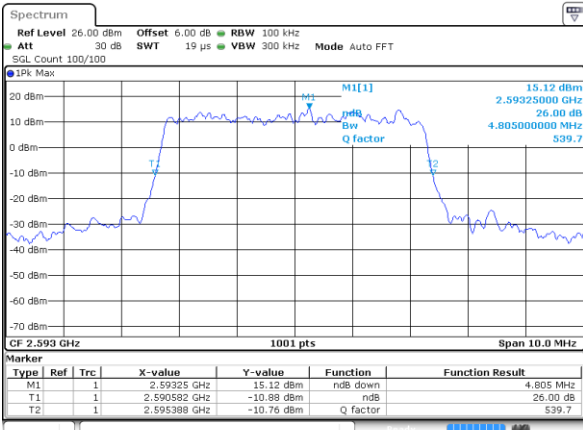
Date: 21 MAY 2020 22:22:40

Lowest Channel / 10MHz / 64QAM



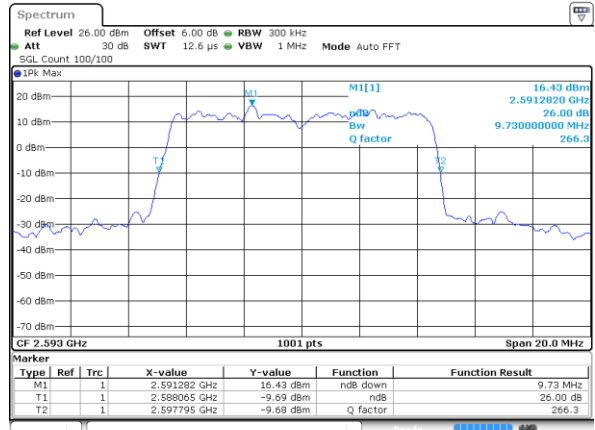
Date: 21 MAY 2020 22:23:41

Middle Channel / 5MHz / 64QAM



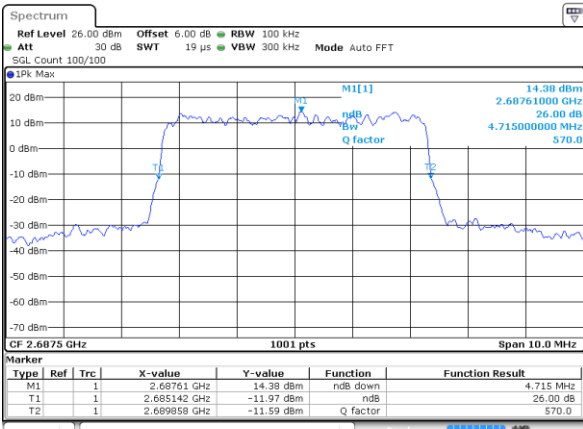
Date: 21 MAY 2020 22:23:01

Middle Channel / 10MHz / 64QAM



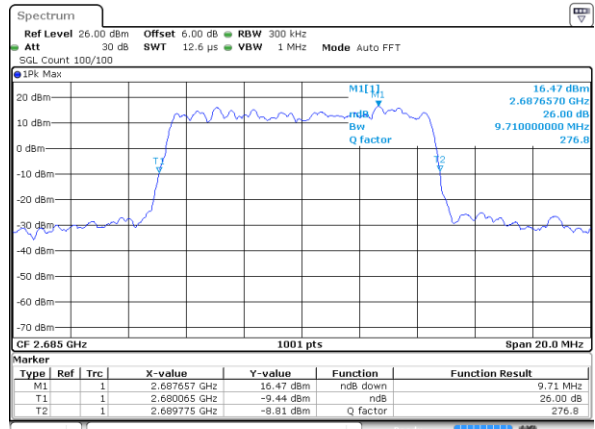
Date: 21 MAY 2020 22:24:01

Highest Channel / 5MHz / 64QAM



Date: 21 MAY 2020 22:23:21

Highest Channel / 10MHz / 64QAM



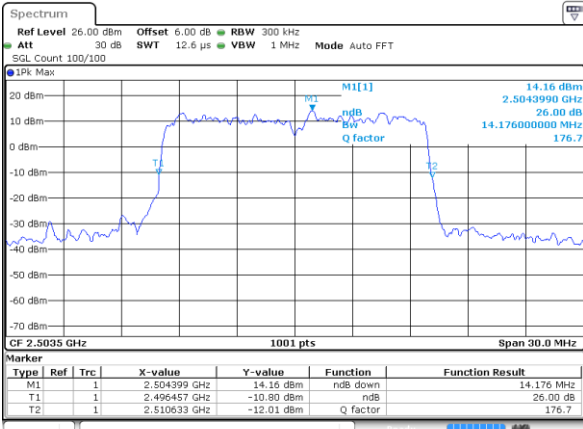
Date: 21 MAY 2020 22:24:21





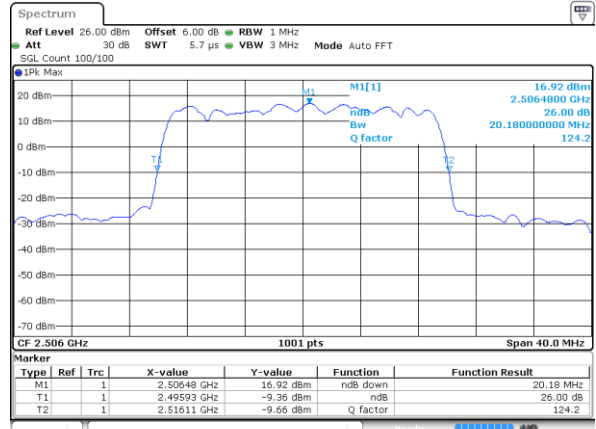
LTE Band 41

Lowest Channel / 15MHz / 64QAM



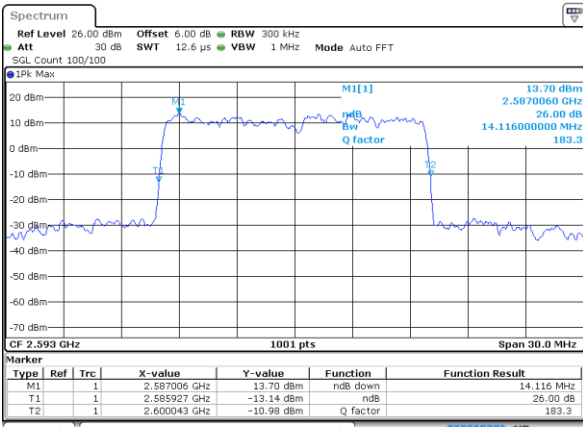
Date: 21 MAY 2020 22:24:41

Lowest Channel / 20MHz / 64QAM



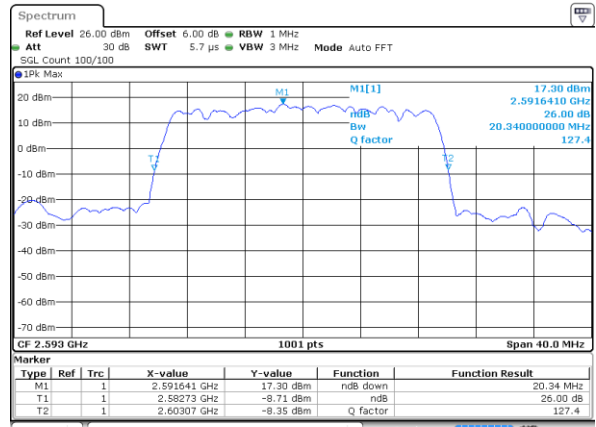
Date: 21 MAY 2020 22:25:41

Middle Channel / 15MHz / 64QAM



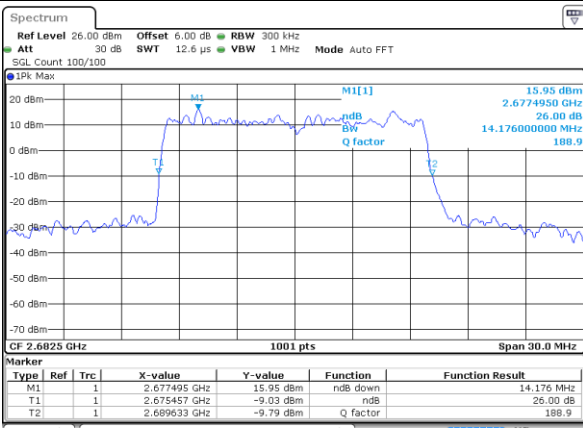
Date: 21 MAY 2020 22:25:01

Middle Channel / 20MHz / 64QAM



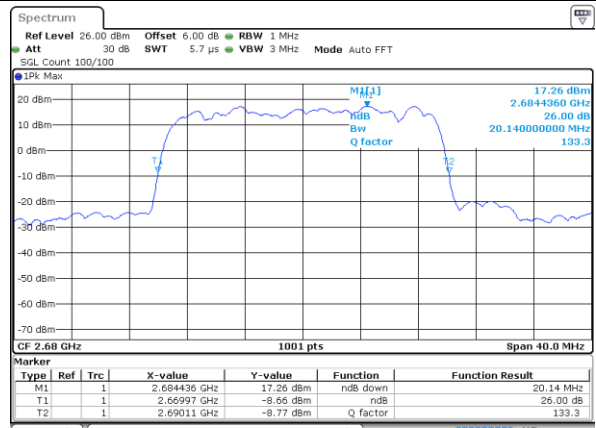
Date: 21 MAY 2020 22:26:01

Highest Channel / 15MHz / 64QAM



Date: 21 MAY 2020 22:25:21

Highest Channel / 20MHz / 64QAM



Date: 21 MAY 2020 22:26:21



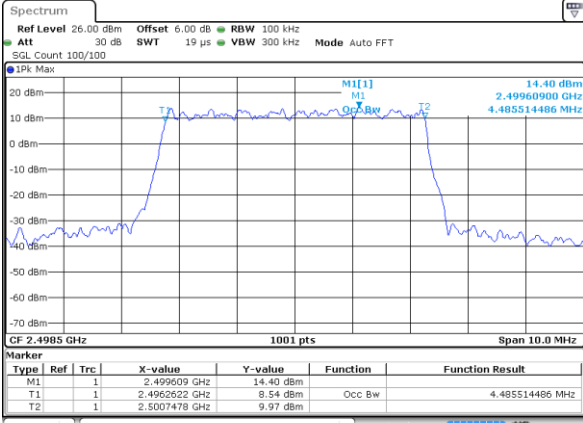
### Occupied Bandwidth

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	4.48	9.05	9.07	13.37	13.46	18.42	18.34
Middle CH	-	-	-	-	4.50	4.47	8.99	8.99	13.43	13.40	18.26	18.26
Highest CH	-	-	-	-	4.49	4.50	9.03	8.99	13.46	13.52	18.30	18.26
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	-	8.97	-	13.49	-	18.34	-
Middle CH	-	-	-	-	4.50	-	9.05	-	13.46	-	18.30	-
Highest CH	-	-	-	-	4.49	-	9.03	-	13.49	-	18.26	-



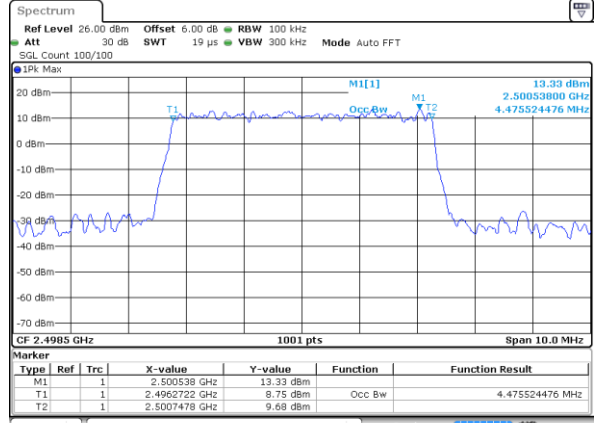
LTE Band 41

Lowest Channel / 5MHz / QPSK



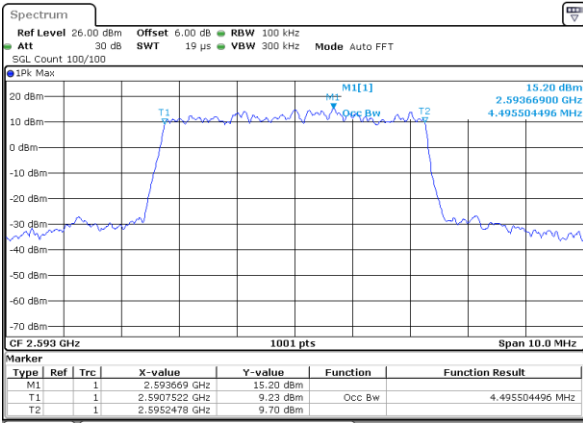
Date: 21 MAY 2020 22:08:54

Lowest Channel / 5MHz / 16QAM



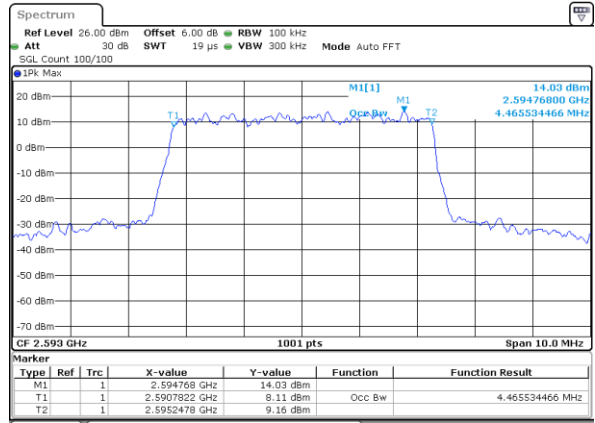
Date: 21 MAY 2020 22:09:04

Middle Channel / 5MHz / QPSK



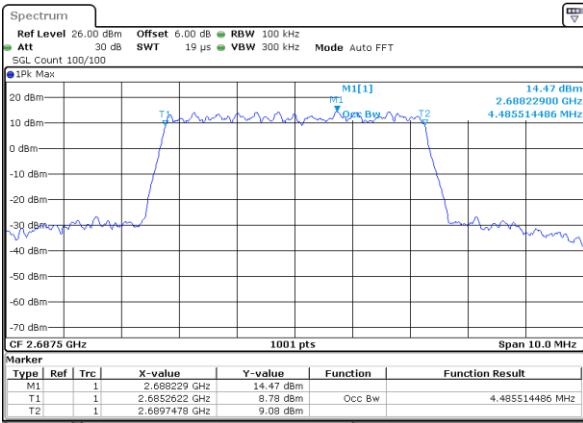
Date: 21 MAY 2020 22:09:34

Middle Channel / 5MHz / 16QAM



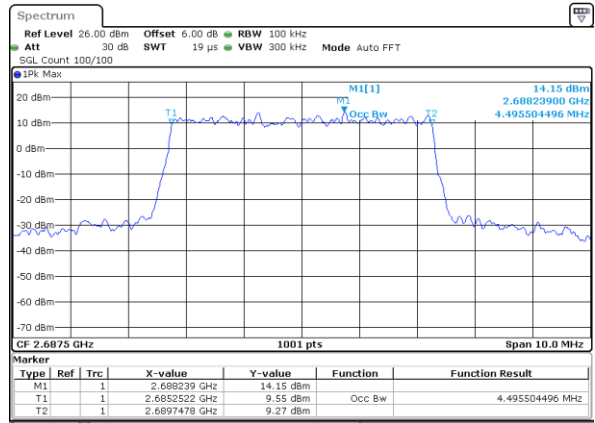
Date: 21 MAY 2020 22:09:44

Highest Channel / 5MHz / QPSK



Date: 21 MAY 2020 22:10:14

Highest Channel / 5MHz / 16QAM

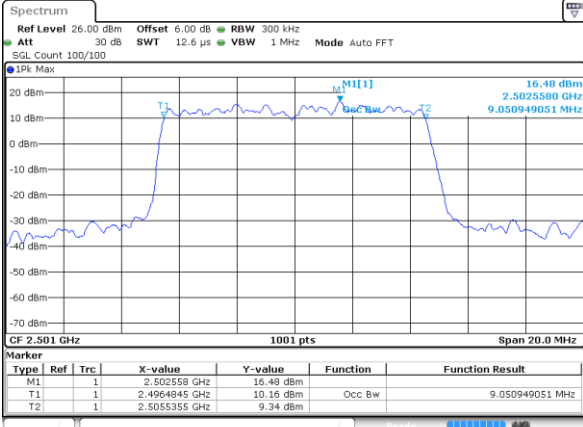


Date: 21 MAY 2020 22:10:24



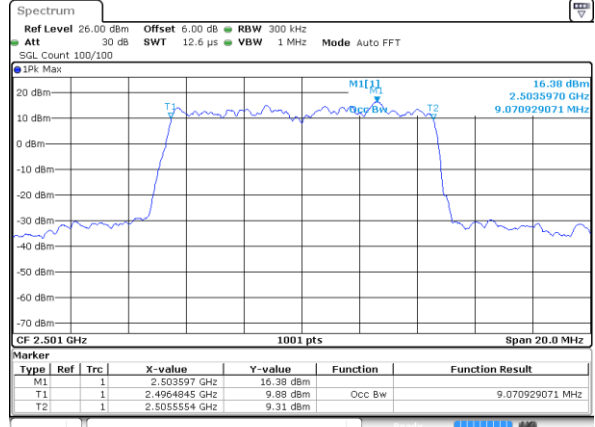
LTE Band 41

Lowest Channel / 10MHz / QPSK



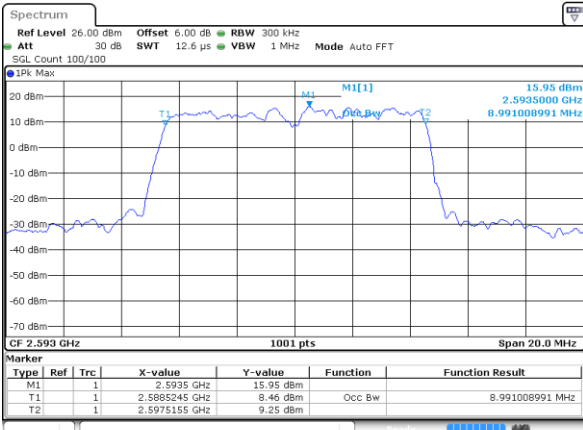
Date: 21 MAY 2020 22:10:54

Lowest Channel / 10MHz / 16QAM



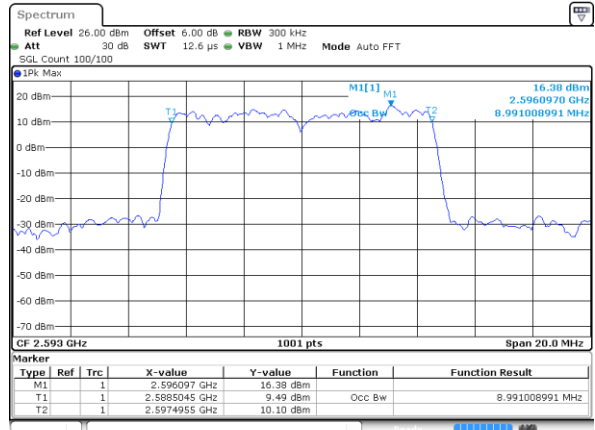
Date: 21 MAY 2020 22:11:04

Middle Channel / 10MHz / QPSK



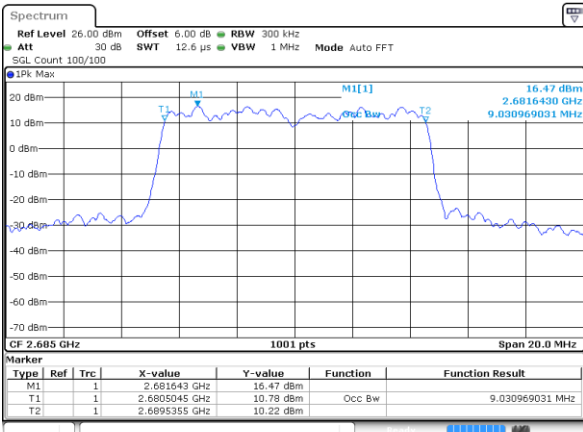
Date: 21 MAY 2020 22:11:34

Middle Channel / 10MHz / 16QAM



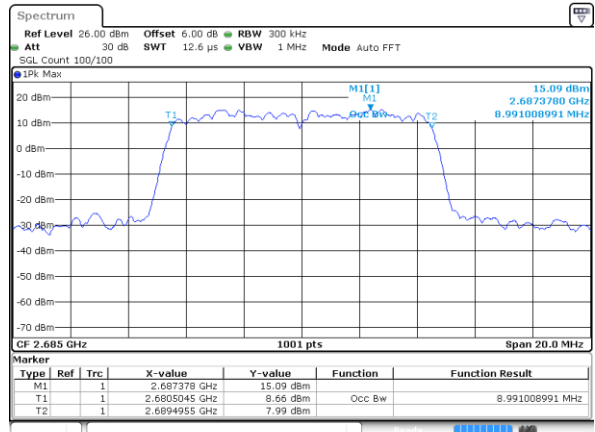
Date: 21 MAY 2020 22:11:44

Highest Channel / 10MHz / QPSK



Date: 21 MAY 2020 22:12:14

Highest Channel / 10MHz / 16QAM

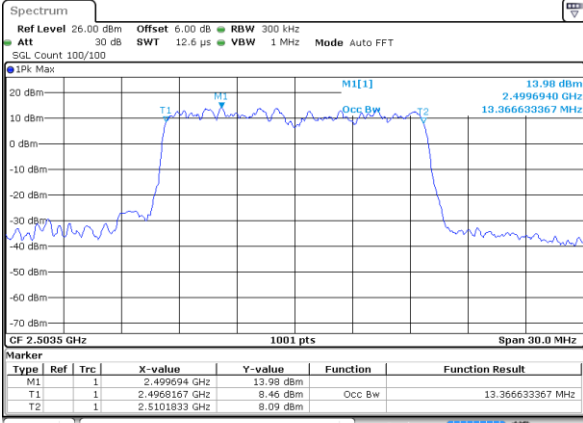


Date: 21 MAY 2020 22:12:25



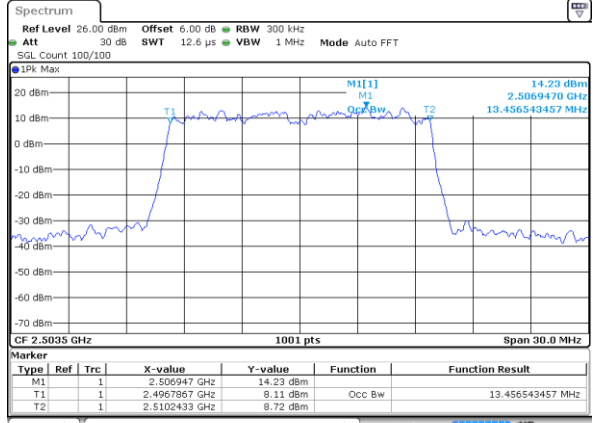
LTE Band 41

Lowest Channel / 15MHz / QPSK



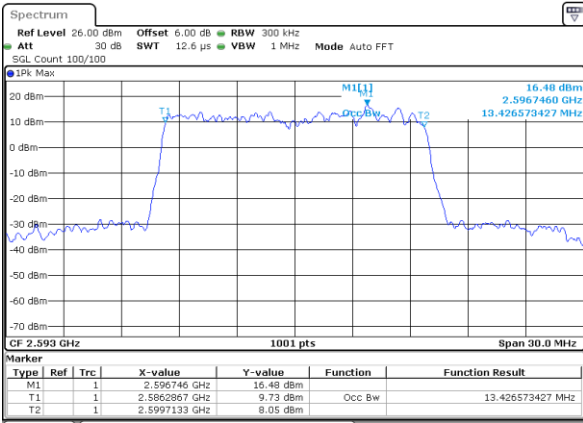
Date: 21 MAY 2020 22:12:55

Lowest Channel / 15MHz / 16QAM



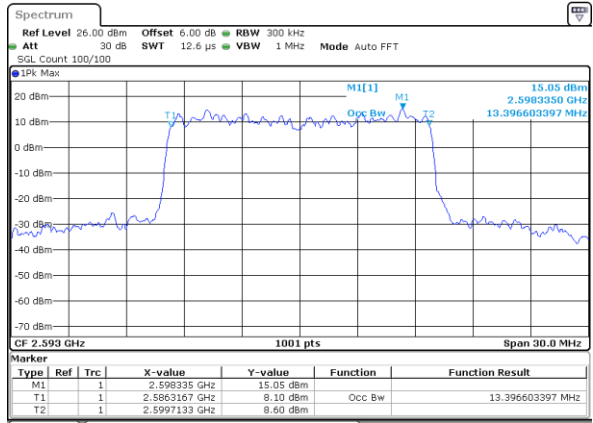
Date: 21 MAY 2020 22:13:05

Middle Channel / 15MHz / QPSK



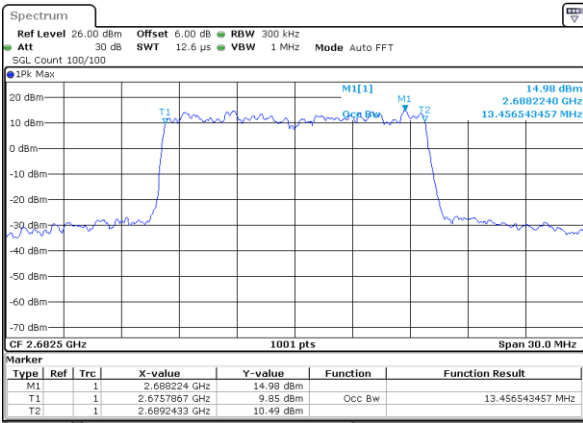
Date: 21 MAY 2020 22:13:35

Middle Channel / 15MHz / 16QAM



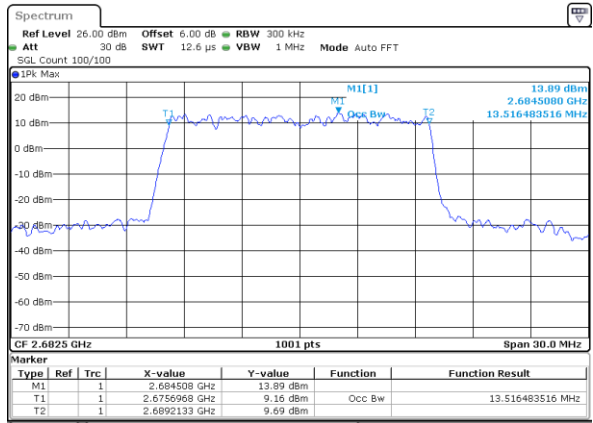
Date: 21 MAY 2020 22:13:45

Highest Channel / 15MHz / QPSK



Date: 21 MAY 2020 22:14:15

Highest Channel / 15MHz / 16QAM

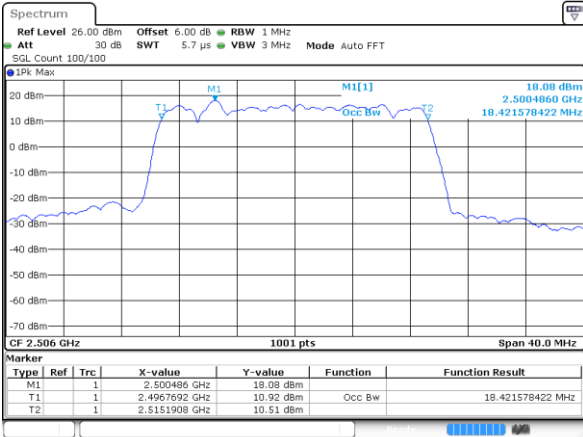


Date: 21 MAY 2020 22:14:25



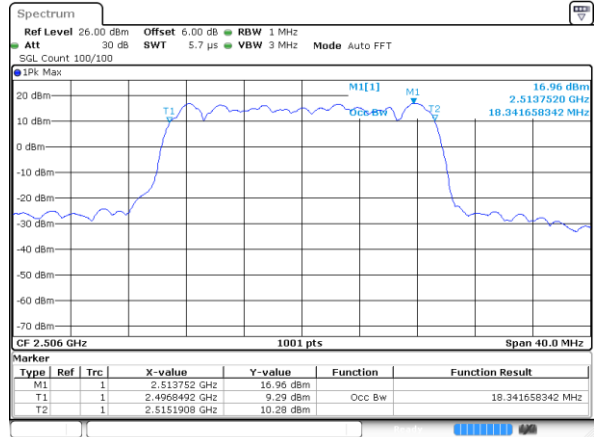
LTE Band 41

Lowest Channel / 20MHz / QPSK



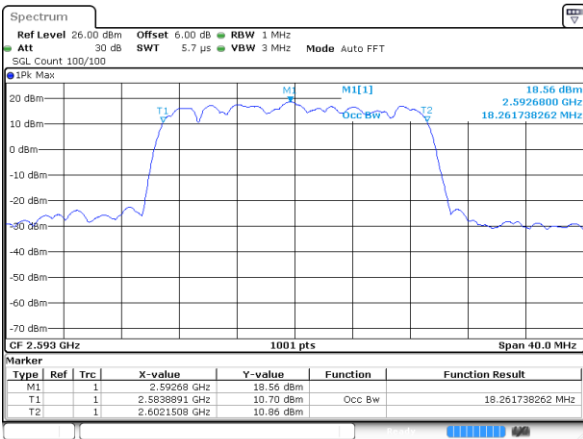
Date: 21 MAY 2020 22:14:55

Lowest Channel / 20MHz / 16QAM



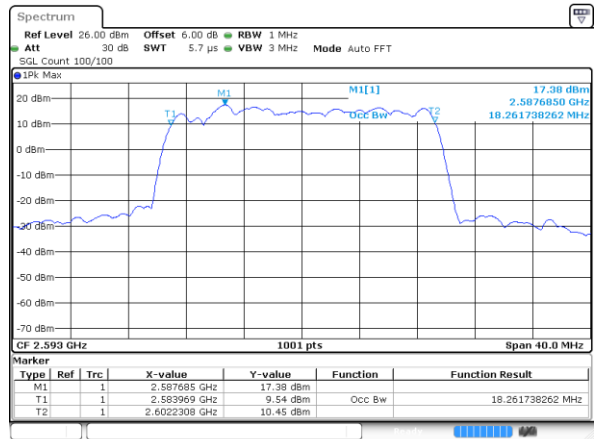
Date: 21 MAY 2020 22:15:05

Middle Channel / 20MHz / QPSK



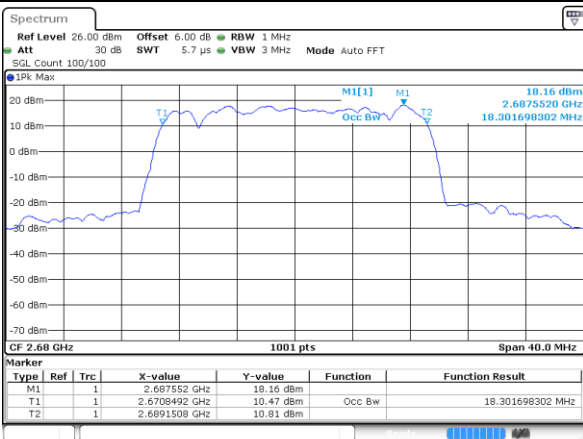
Date: 21 MAY 2020 22:15:35

Middle Channel / 20MHz / 16QAM



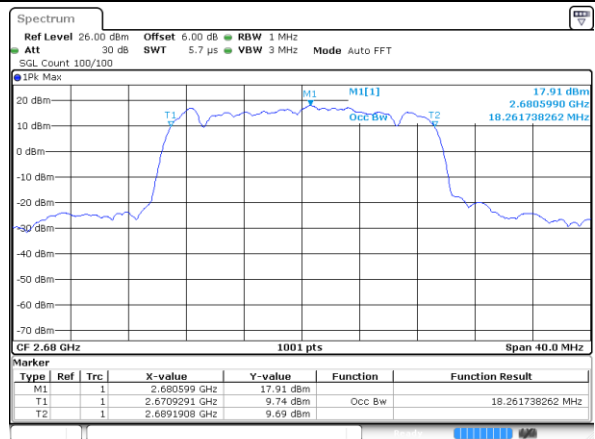
Date: 21 MAY 2020 22:15:45

Highest Channel / 20MHz / QPSK



Date: 21 MAY 2020 22:16:15

Highest Channel / 20MHz / 16QAM

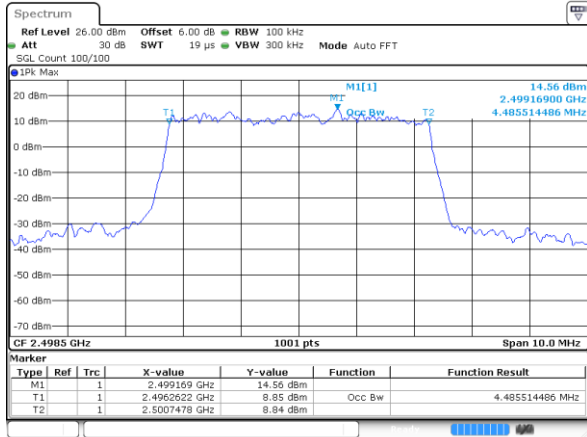


Date: 21 MAY 2020 22:16:25



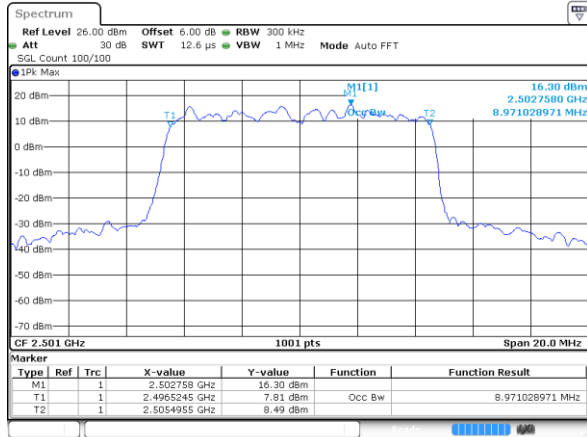
LTE Band 41

Lowest Channel / 5MHz / 64QAM



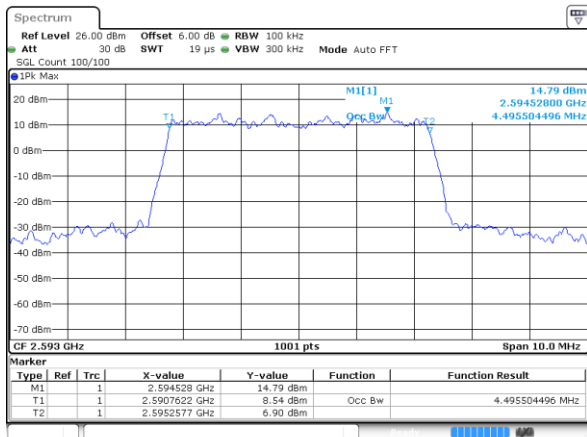
Date: 21 MAY 2020 22:22:30

Lowest Channel / 10MHz / 64QAM



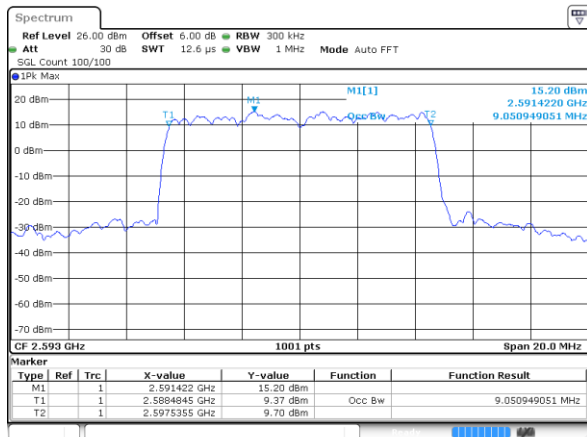
Date: 21 MAY 2020 22:23:31

Middle Channel / 5MHz / 64QAM



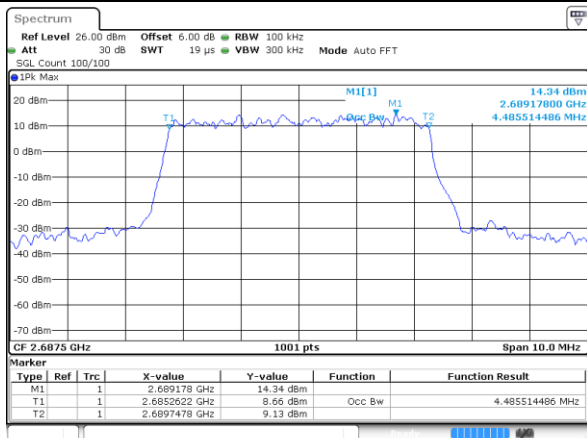
Date: 21 MAY 2020 22:22:51

Middle Channel / 10MHz / 64QAM



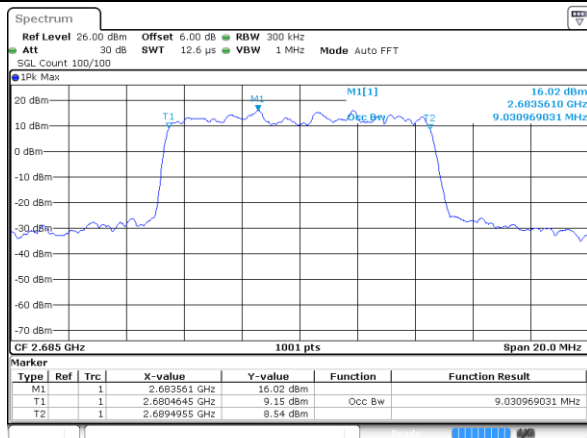
Date: 21 MAY 2020 22:23:51

Highest Channel / 5MHz / 64QAM



Date: 21 MAY 2020 22:23:11

Highest Channel / 10MHz / 64QAM

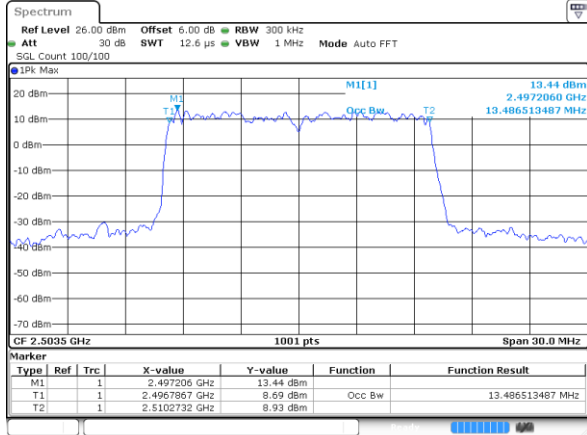


Date: 21 MAY 2020 22:24:11



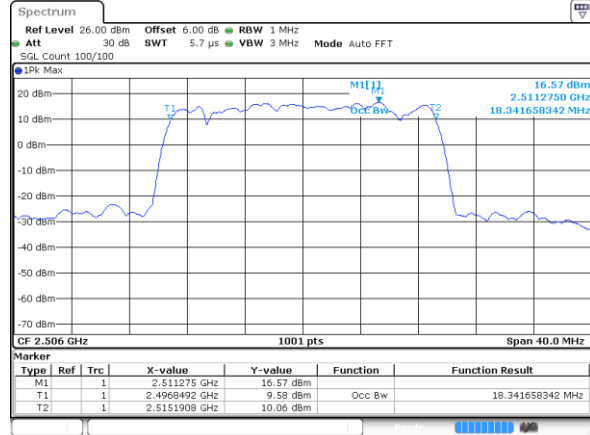
LTE Band 41

Lowest Channel / 15MHz / 64QAM



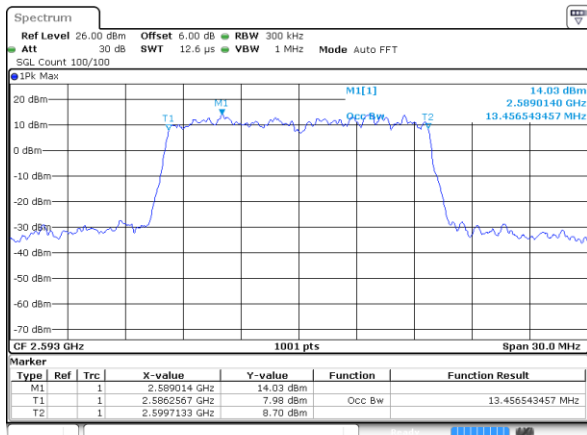
Date: 21 MAY 2020 22:24:31

Lowest Channel / 20MHz / 64QAM



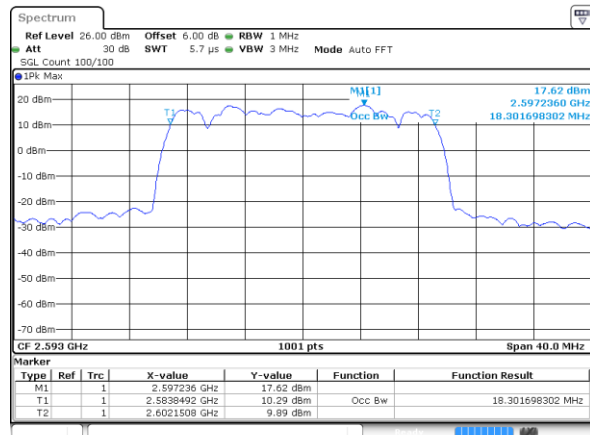
Date: 21 MAY 2020 22:25:31

Middle Channel / 15MHz / 64QAM



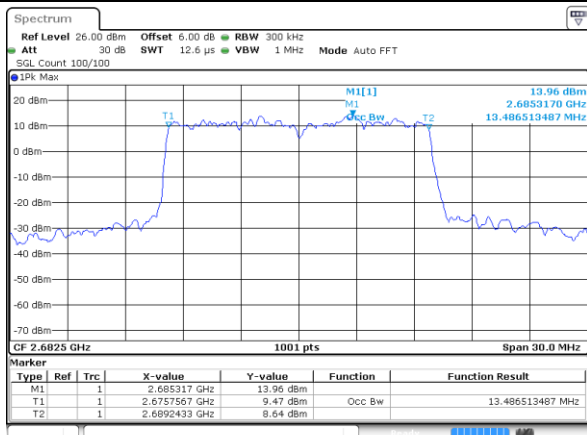
Date: 21 MAY 2020 22:24:51

Middle Channel / 20MHz / 64QAM



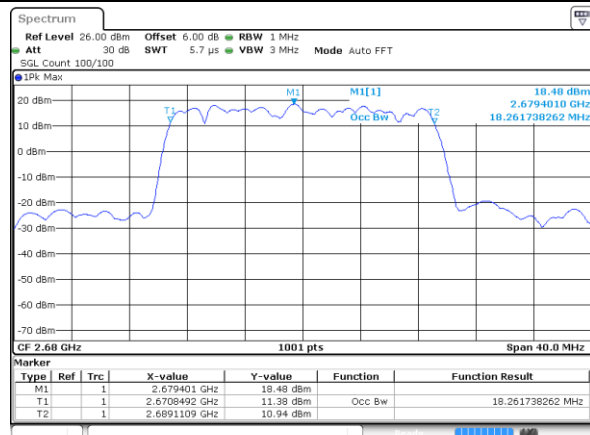
Date: 21 MAY 2020 22:25:51

Highest Channel / 15MHz / 64QAM



Date: 21 MAY 2020 22:25:11

Highest Channel / 20MHz / 64QAM

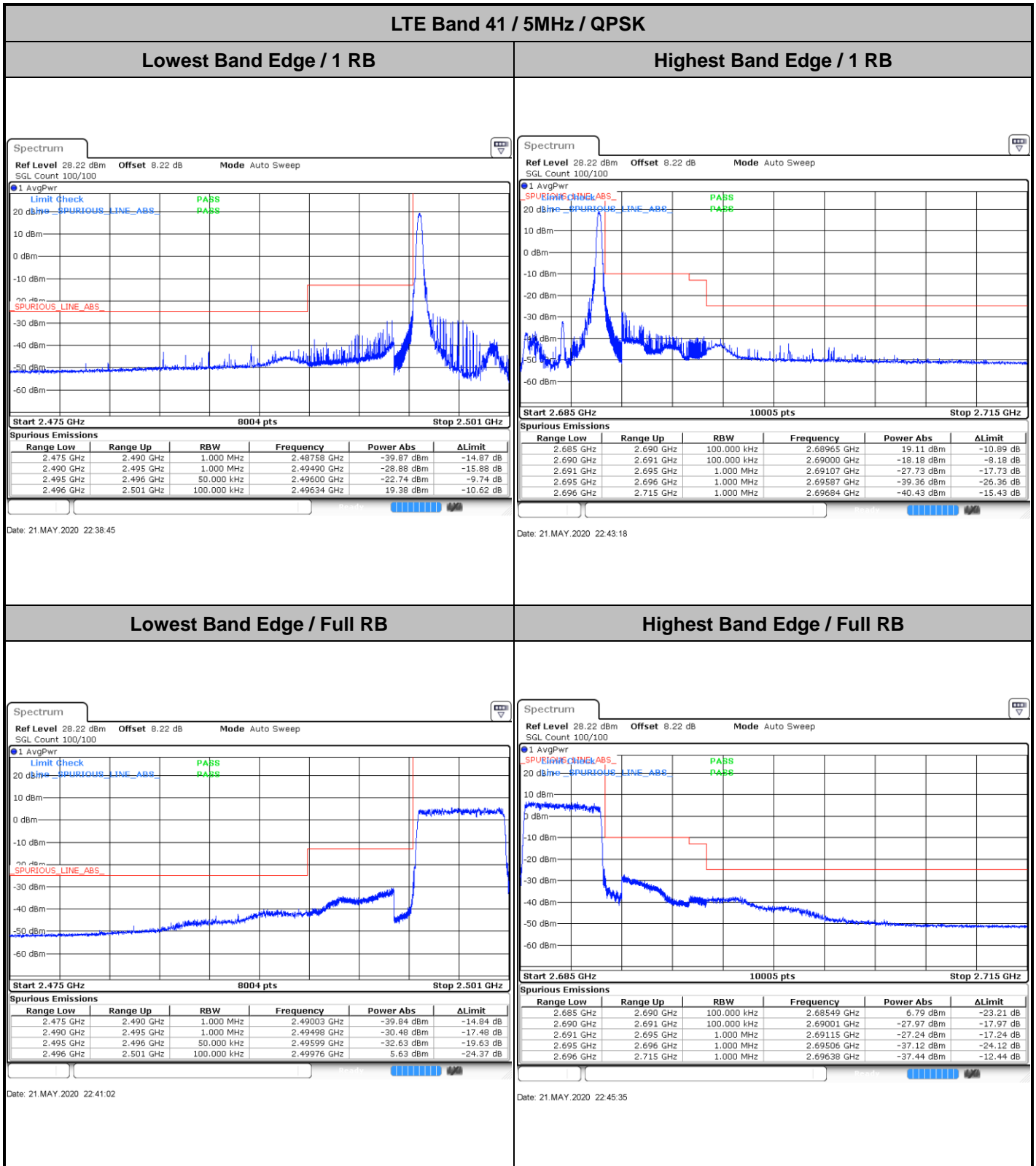


Date: 21 MAY 2020 22:26:11





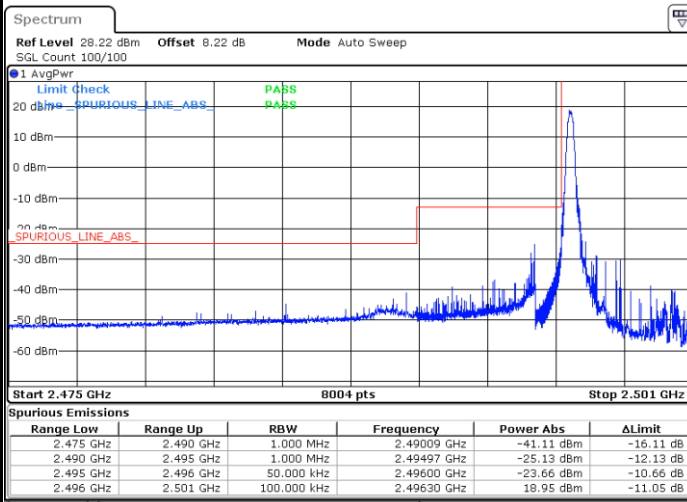
# Conducted Band Edge





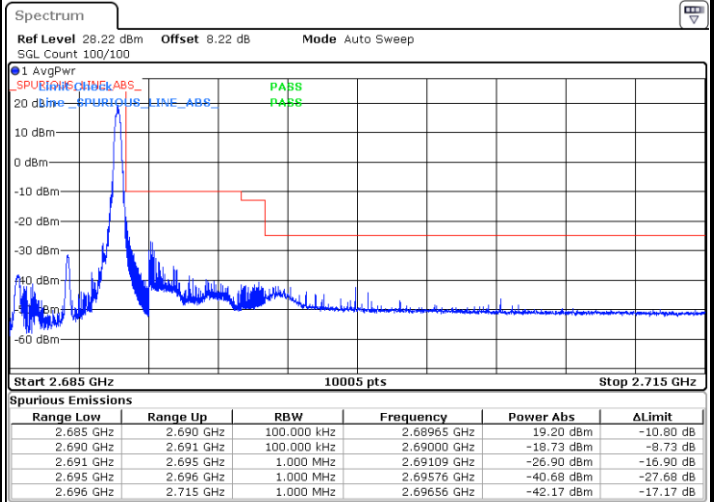
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



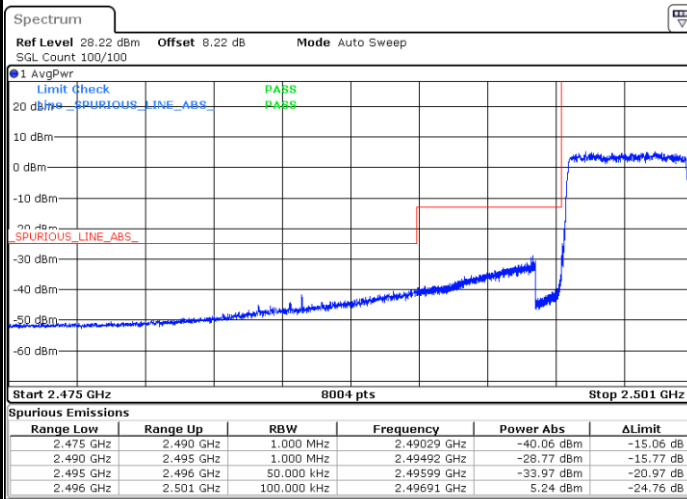
Date: 21.MAY.2020 22:39:53

Highest Band Edge / 1 RB



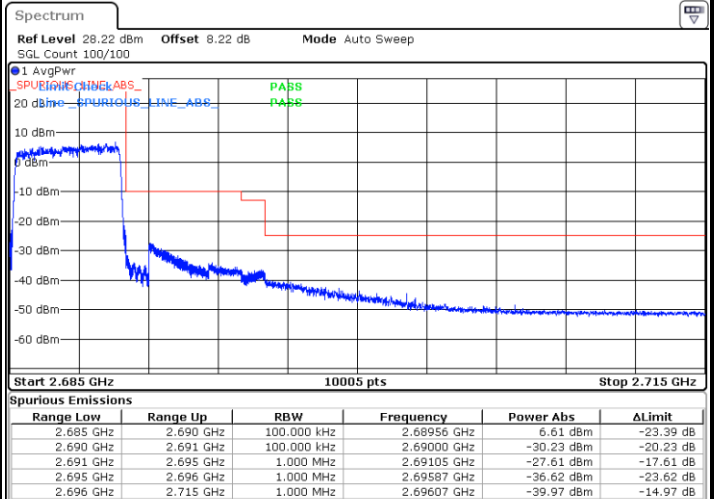
Date: 21.MAY.2020 22:44:26

Lowest Band Edge / Full RB



Date: 21.MAY.2020 22:42:10

Highest Band Edge / Full RB

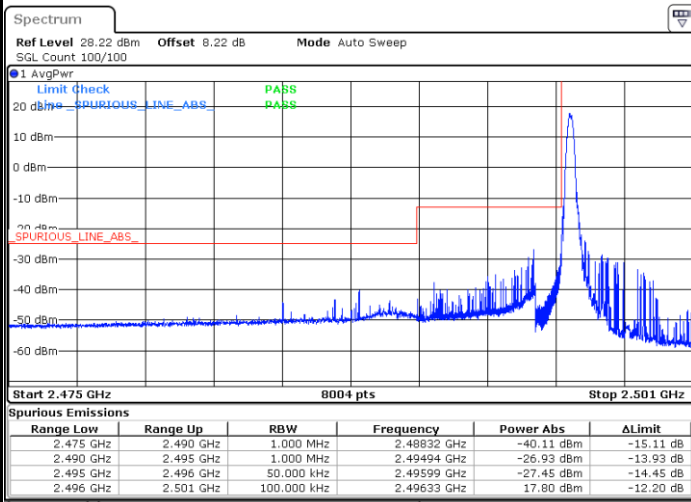


Date: 21.MAY.2020 22:46:43



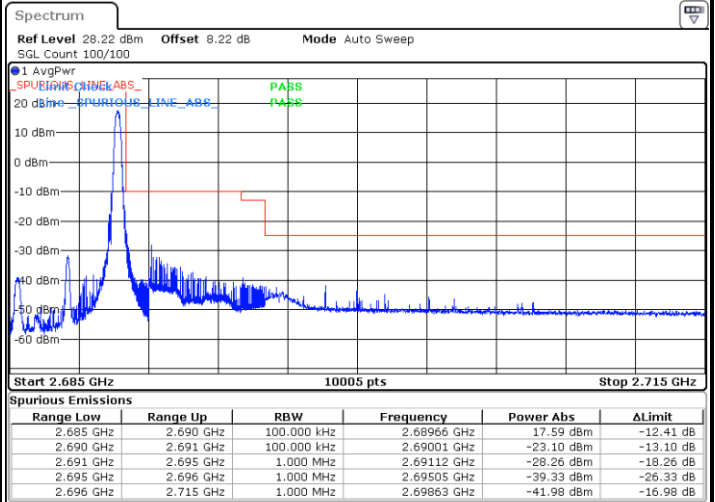
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



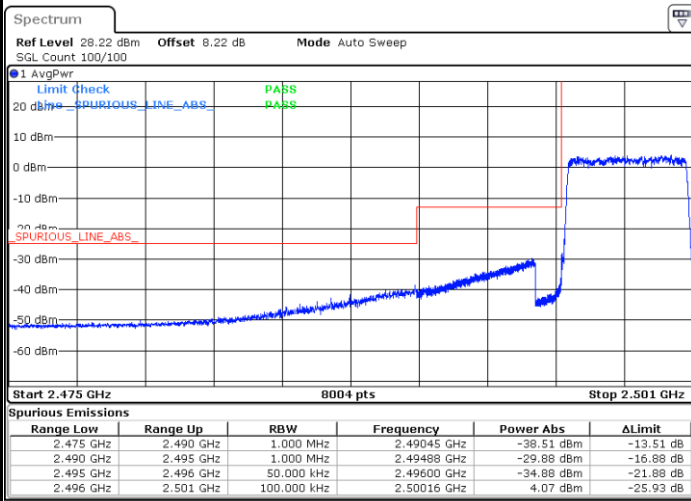
Date: 21.MAY.2020 23:15:09

Highest Band Edge / 1 RB



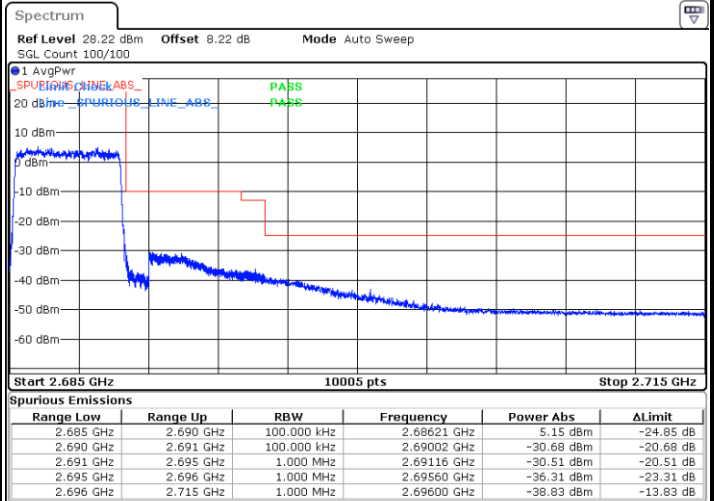
Date: 21.MAY.2020 23:18:34

Lowest Band Edge / Full RB



Date: 21.MAY.2020 23:16:17

Highest Band Edge / Full RB

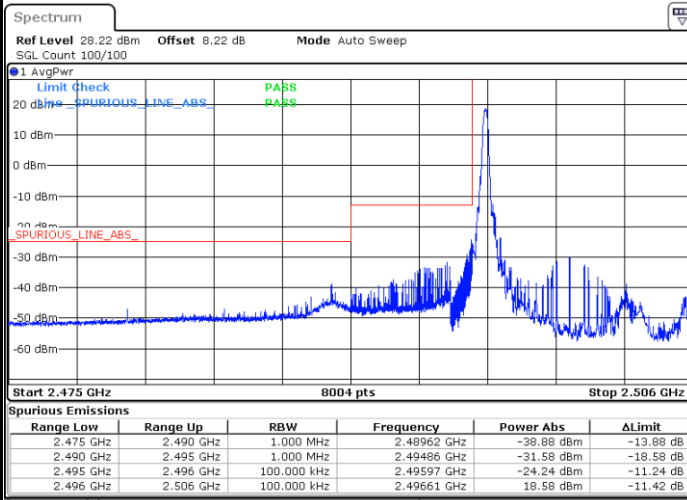


Date: 21.MAY.2020 23:17:26



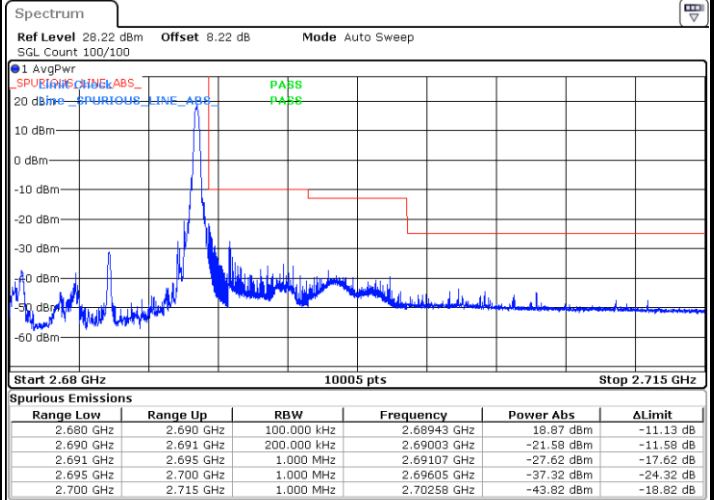
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



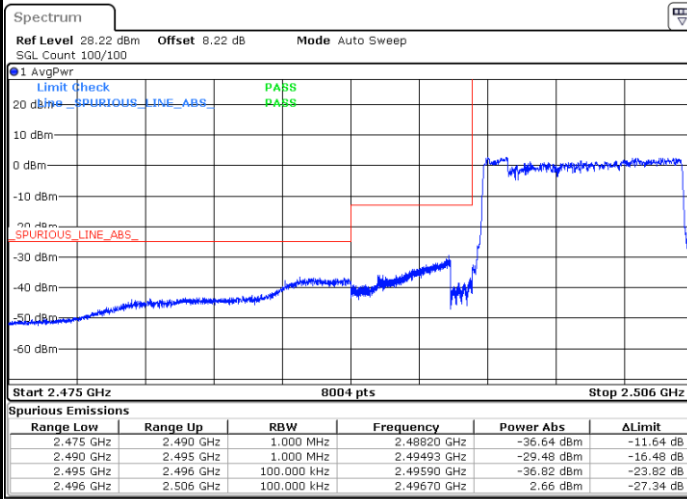
Date: 21.MAY.2020 22:47:51

Highest Band Edge / 1 RB



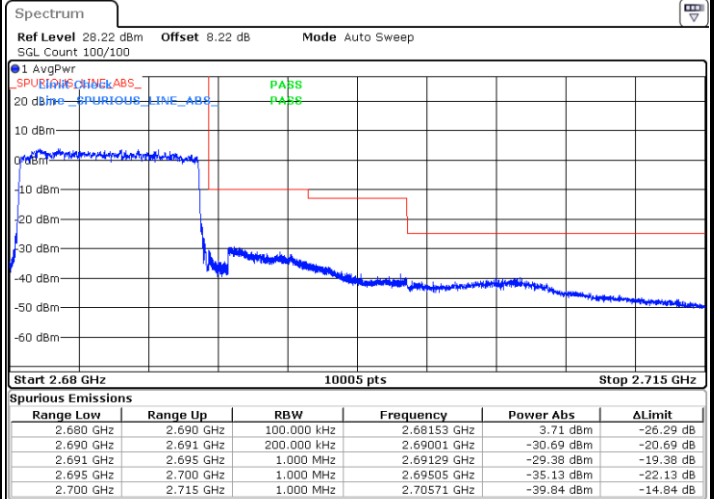
Date: 21.MAY.2020 22:52:24

Lowest Band Edge / Full RB



Date: 21.MAY.2020 22:50:08

Highest Band Edge / Full RB



Date: 21.MAY.2020 22:54:40