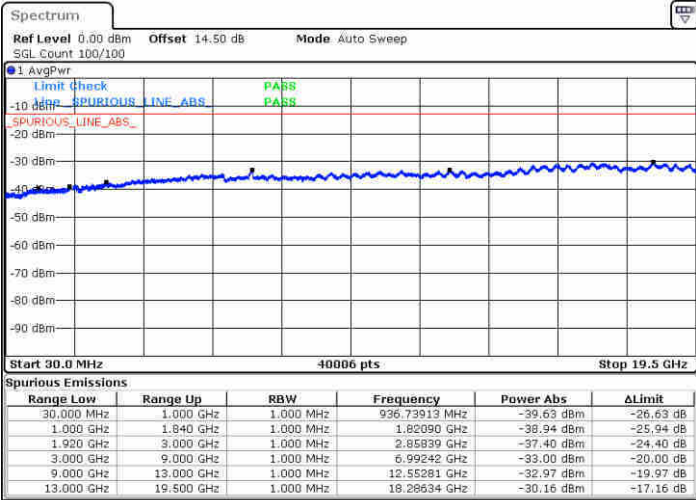




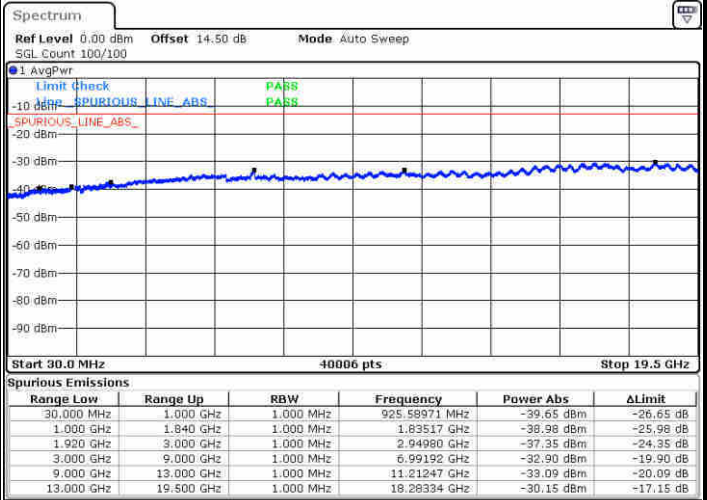
LTE Band 2 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

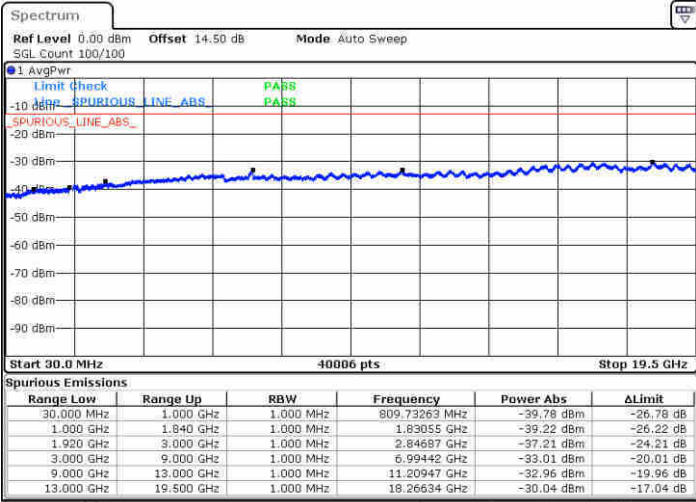


Date: 5. JUN. 2020 14:49:07



Date: 5. JUN. 2020 14:50:11

Highest Channel / 64QAM



Date: 5. JUN. 2020 14:53:06



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0037	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 5

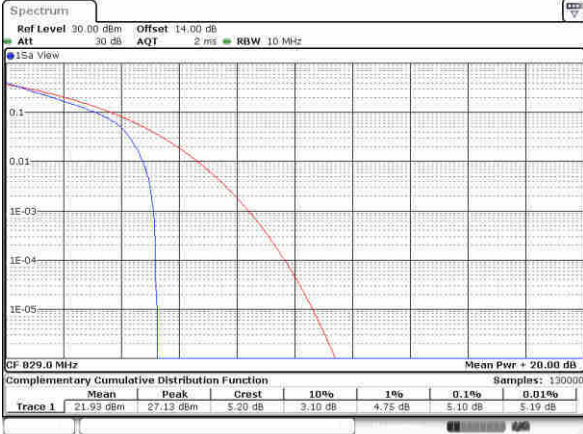
## Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.10	5.80	6.67	6.46	<b>PASS</b>
Middle CH	4.46	5.86	6.20	6.26	
Highest CH	4.84	5.77	6.61	6.32	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.99	6.70	-	-	<b>PASS</b>
Middle CH	6.23	6.67	-	-	
Highest CH	6.70	6.90	-	-	



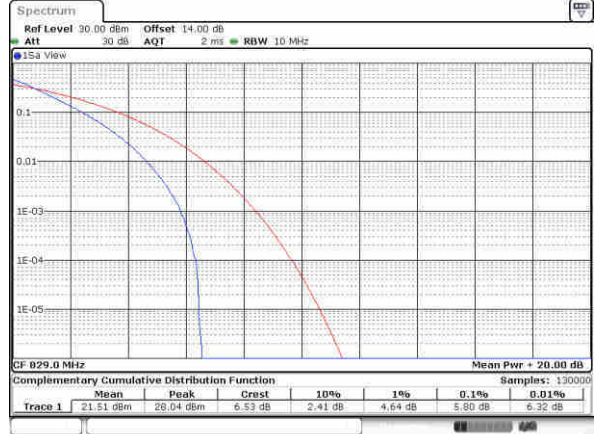
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



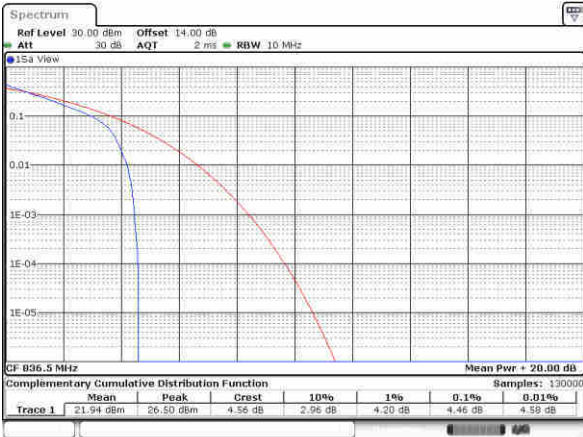
Date: Sat, 2020-07-30 17:33:53

Lowest Channel / Full RB



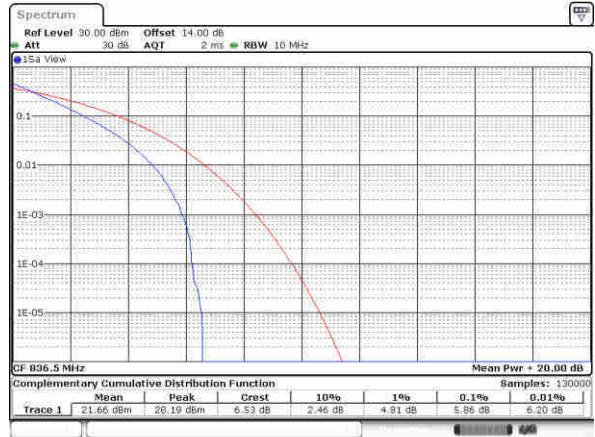
Date: Sat, 2020-07-30 17:35:04

Middle Channel / 1RB



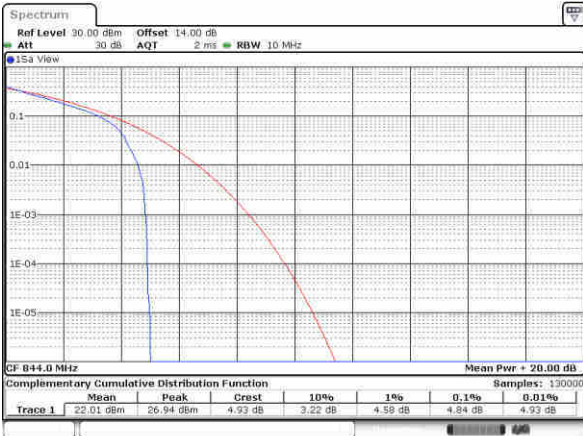
Date: Sat, 2020-07-30 17:35:14

Middle Channel / Full RB



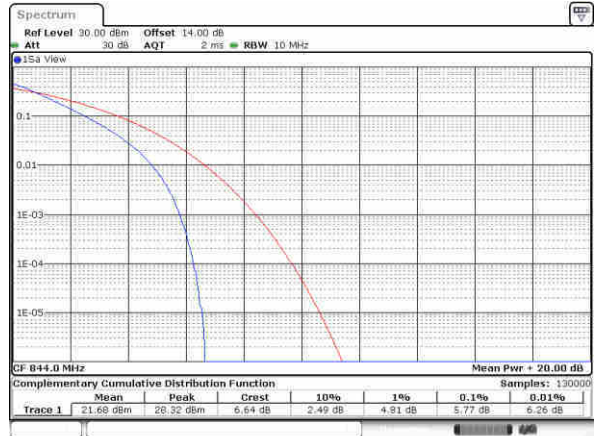
Date: Sat, 2020-07-30 17:35:25

Highest Channel / 1RB



Date: Sat, 2020-07-30 17:35:35

Highest Channel / Full RB

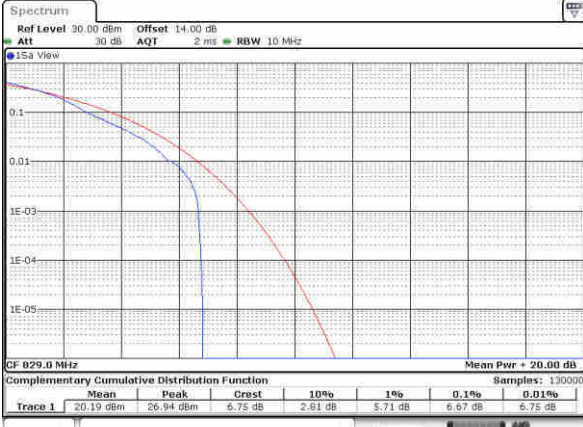


Date: Sat, 2020-07-30 17:35:46



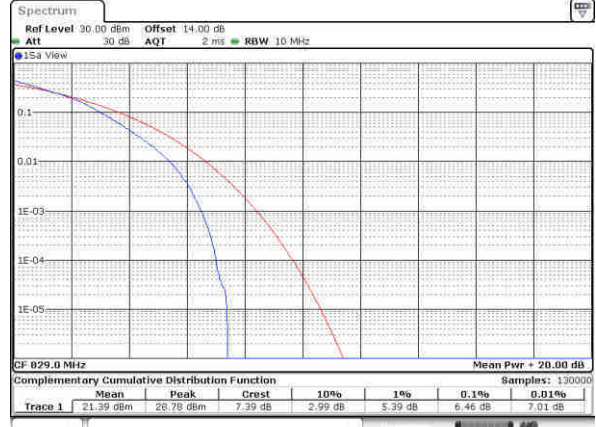
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



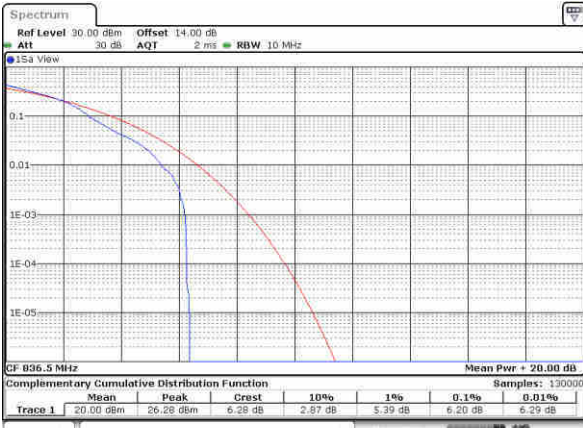
Date: Sat, 2020-07-30 17:33:50

Lowest Channel / Full RB



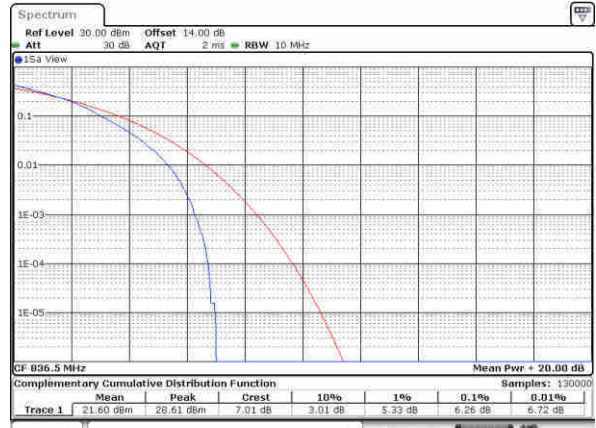
Date: Sat, 2020-07-30 17:34:01

Middle Channel / 1RB



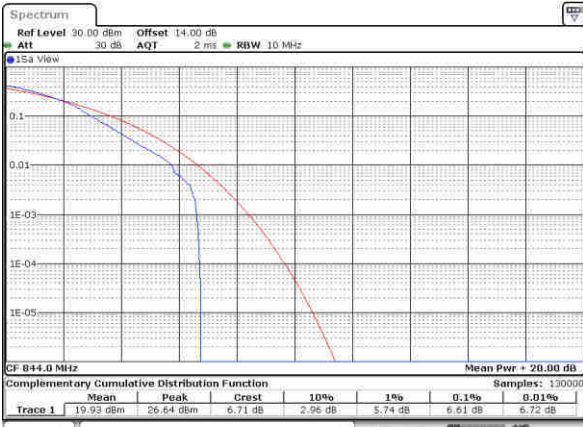
Date: Sat, 2020-07-30 17:34:11

Middle Channel / Full RB



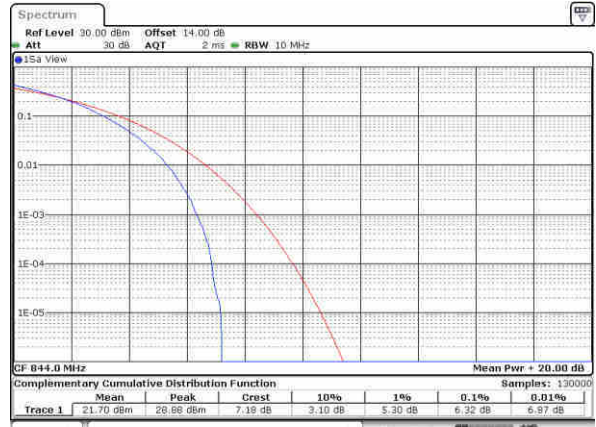
Date: Sat, 2020-07-30 17:34:21

Highest Channel / 1RB



Date: Sat, 2020-07-30 17:34:32

Highest Channel / Full RB



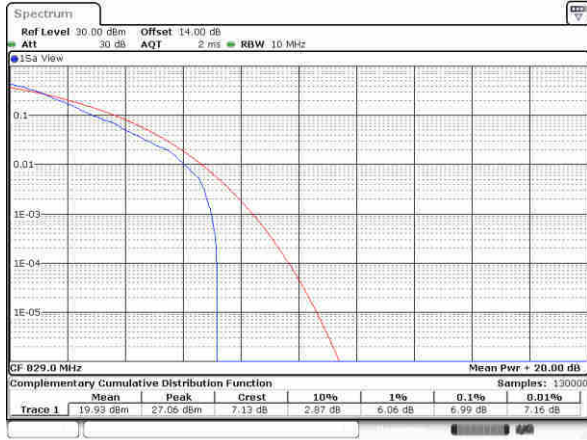
Date: Sat, 2020-07-30 17:34:42





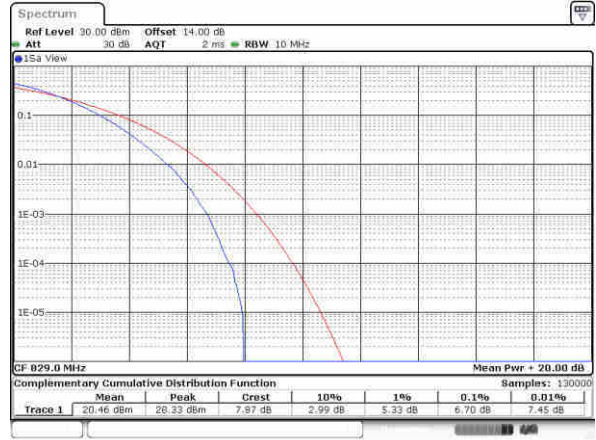
LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



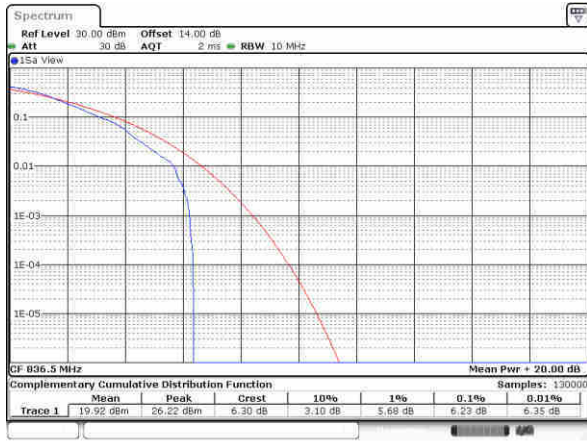
Date: Sat, 07/30/2020 17:35:57

Lowest Channel / Full RB



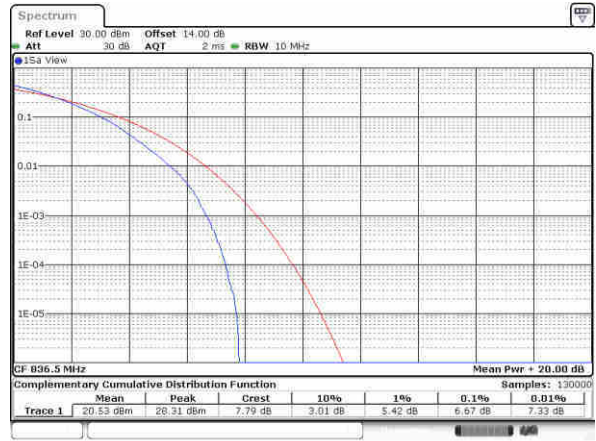
Date: Sat, 07/30/2020 17:36:07

Middle Channel / 1RB



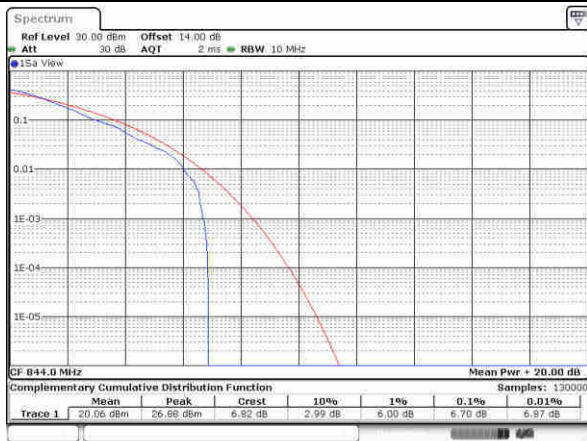
Date: Sat, 07/30/2020 17:36:10

Middle Channel / Full RB



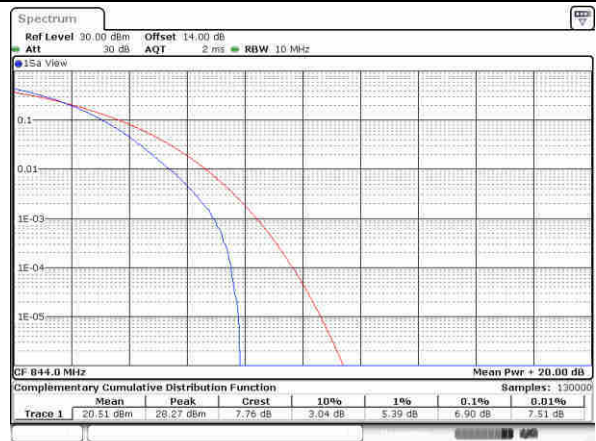
Date: Sat, 07/30/2020 17:36:20

Highest Channel / 1RB



Date: Sat, 07/30/2020 17:36:40

Highest Channel / Full RB



Date: Sat, 07/30/2020 17:36:51



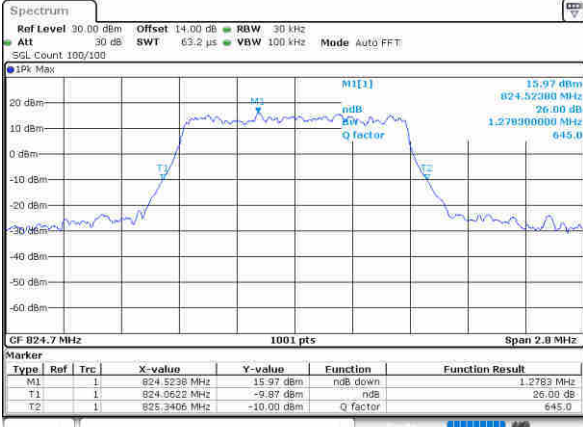
26dB Bandwidth

Mode	LTE Band 5 : 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	1.28	1.27	2.95	3.00	4.82	4.92	9.93	9.73	-	-	-	-
Middle CH	1.28	1.29	2.99	2.99	4.86	4.90	9.85	9.87	-	-	-	-
Highest CH	1.27	1.28	3.00	3.01	4.89	4.98	9.65	9.69	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.28	-	2.96	-	4.86	-	9.81	-	-	-	-	-
Middle CH	1.26	-	2.96	-	4.89	-	9.79	-	-	-	-	-
Highest CH	1.28	-	2.96	-	4.87	-	9.87	-	-	-	-	-



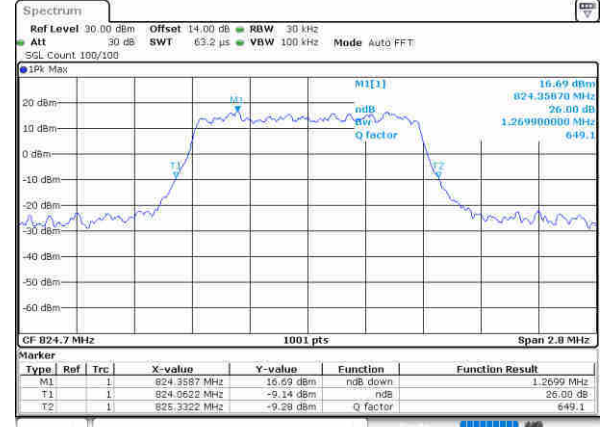
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



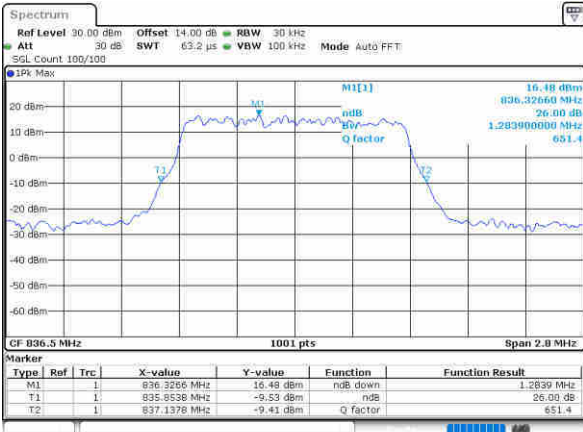
Date: Sat, 2020 16:57:11

Lowest Channel / 1.4MHz / 16QAM



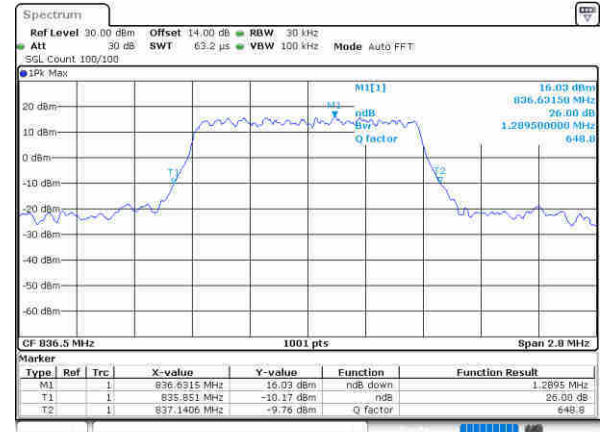
Date: Sat, 2020 16:57:10

Middle Channel / 1.4MHz / QPSK



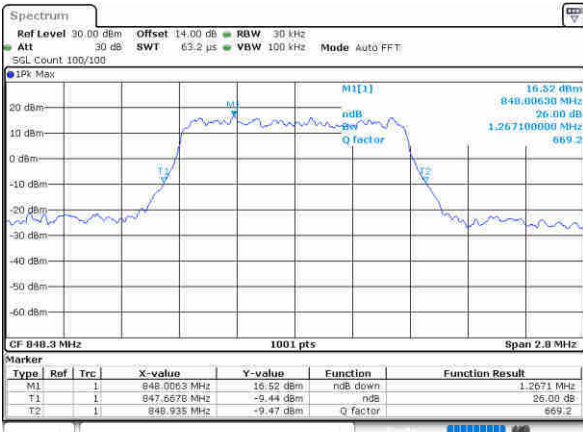
Date: Sat, 2020 17:03:02

Middle Channel / 1.4MHz / 16QAM



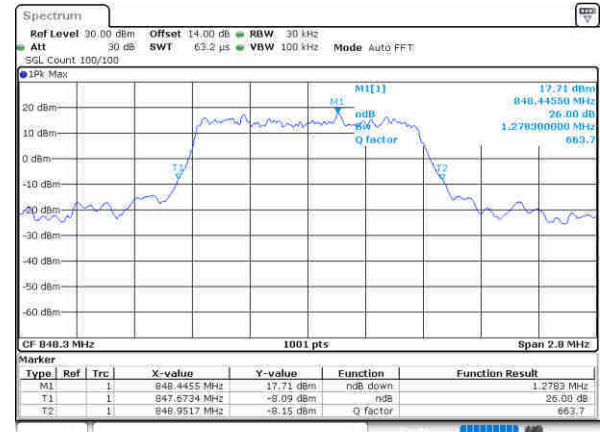
Date: Sat, 2020 17:03:03

Highest Channel / 1.4MHz / QPSK



Date: Sat, 2020 17:05:45

Highest Channel / 1.4MHz / 16QAM



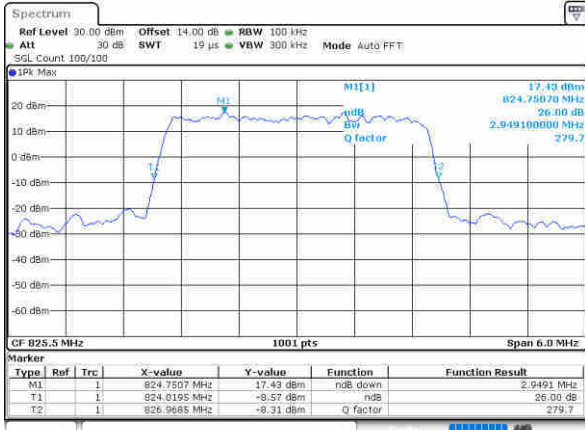
Date: Sat, 2020 17:05:46





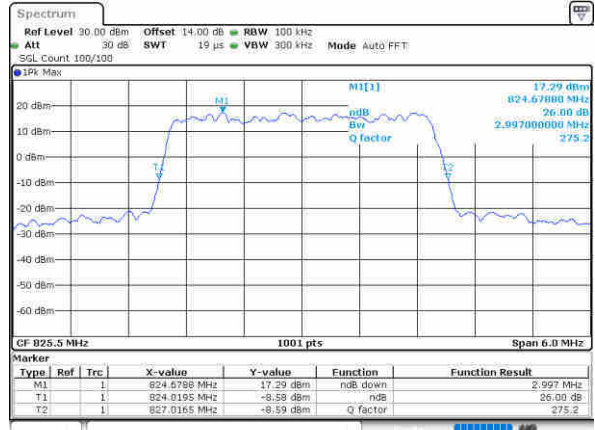
LTE Band 5

Lowest Channel / 3MHz / QPSK



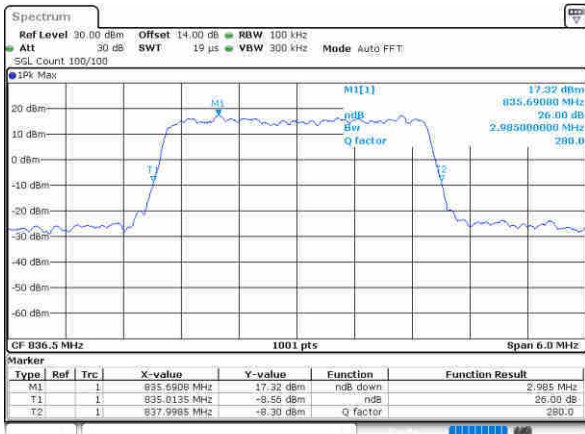
Date: Sun, 2020 15:20:58

Lowest Channel / 3MHz / 16QAM



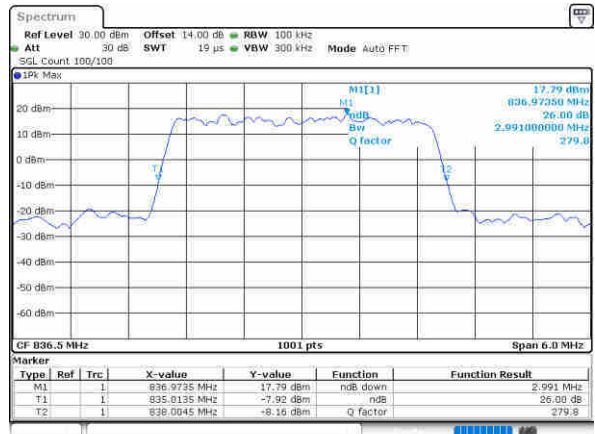
Date: Sun, 2020 15:21:09

Middle Channel / 3MHz / QPSK



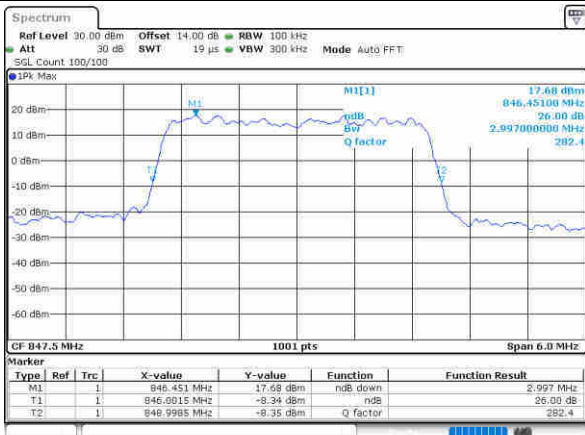
Date: Sun, 2020 15:20:11

Middle Channel / 3MHz / 16QAM



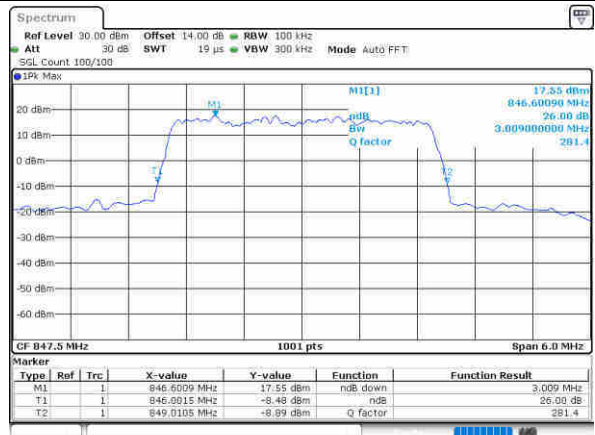
Date: Sun, 2020 15:20:20

Highest Channel / 3MHz / QPSK



Date: Sun, 2020 15:22:59

Highest Channel / 3MHz / 16QAM

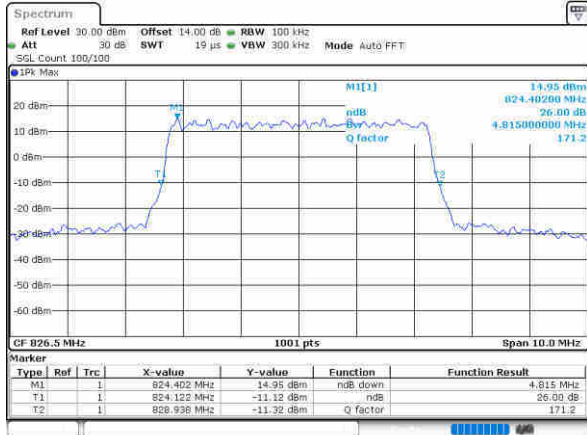


Date: Sun, 2020 15:23:00



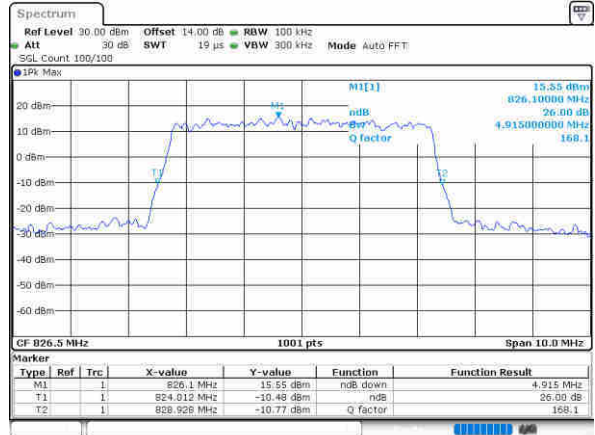
LTE Band 5

Lowest Channel / 5MHz / QPSK



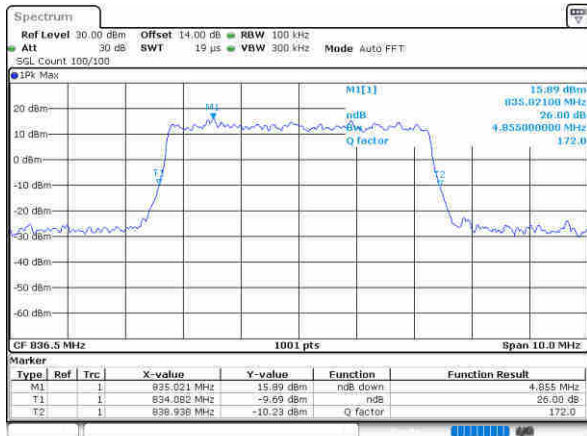
Date: Sat, 2020 15:52:59

Lowest Channel / 5MHz / 16QAM



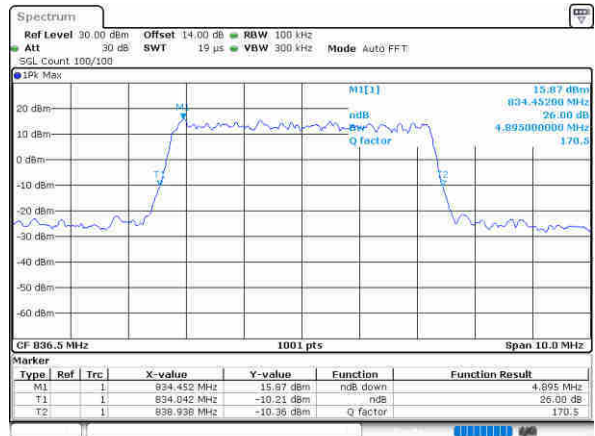
Date: Sat, 2020 15:53:10

Middle Channel / 5MHz / QPSK



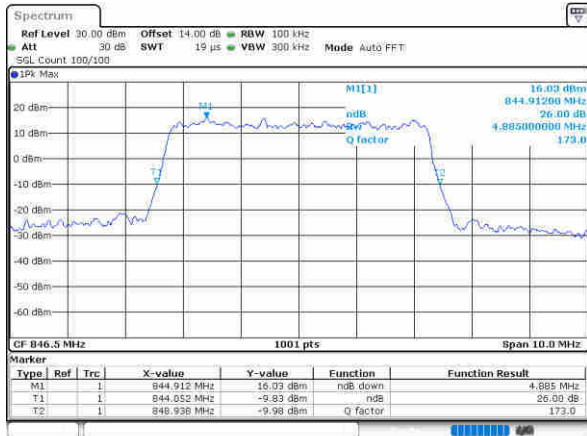
Date: Sat, 2020 16:02:11

Middle Channel / 5MHz / 16QAM



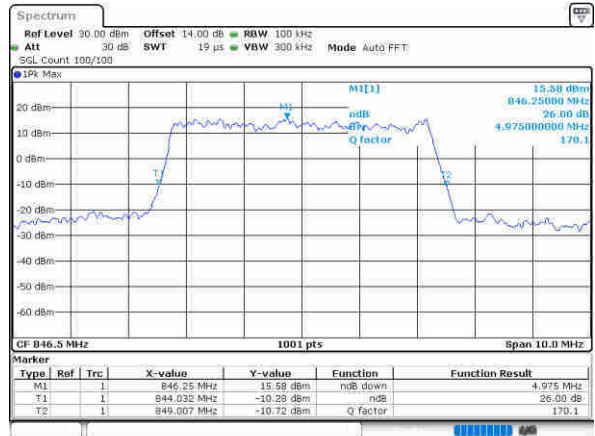
Date: Sat, 2020 16:02:20

Highest Channel / 5MHz / QPSK



Date: Sat, 2020 16:05:00

Highest Channel / 5MHz / 16QAM

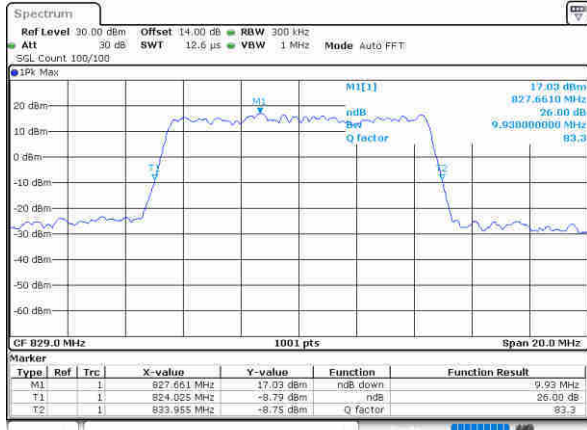


Date: Sat, 2020 16:05:11



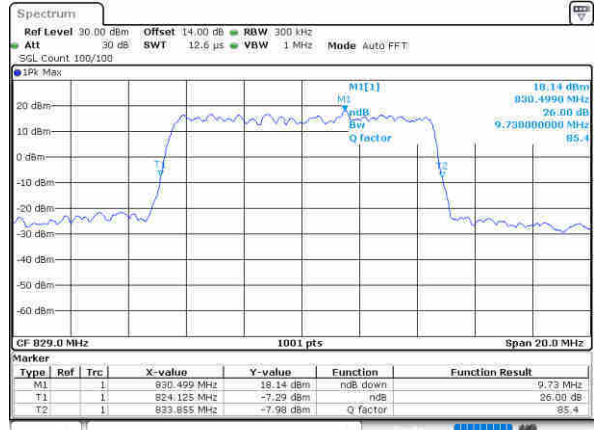
LTE Band 5

Lowest Channel / 10MHz / QPSK



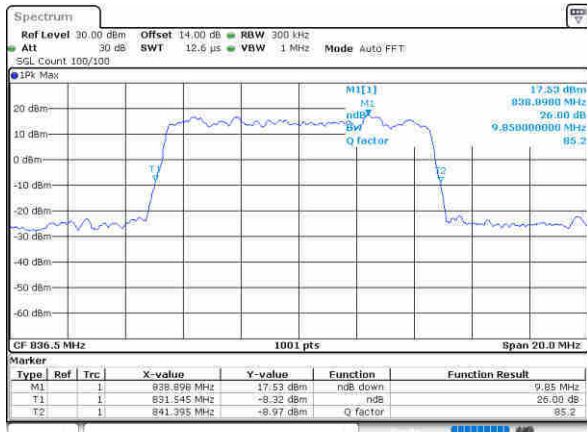
Date: 5/30/2020 16:23:10

Lowest Channel / 10MHz / 16QAM



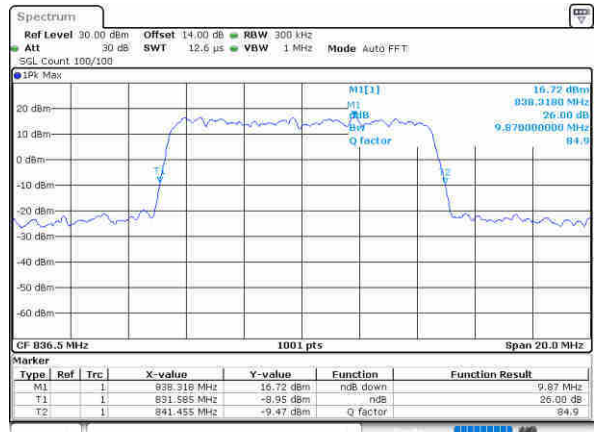
Date: 5/30/2020 16:23:11

Middle Channel / 10MHz / QPSK



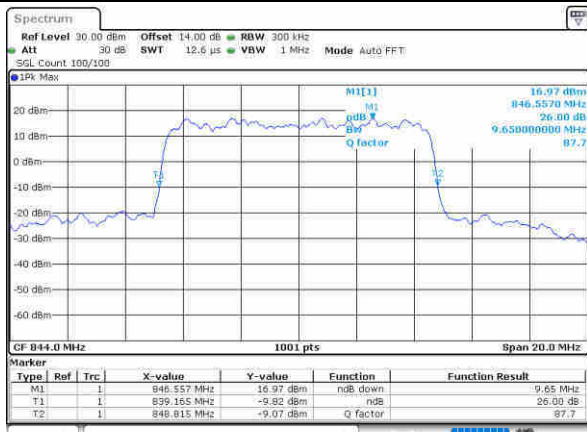
Date: 5/30/2020 16:23:15

Middle Channel / 10MHz / 16QAM



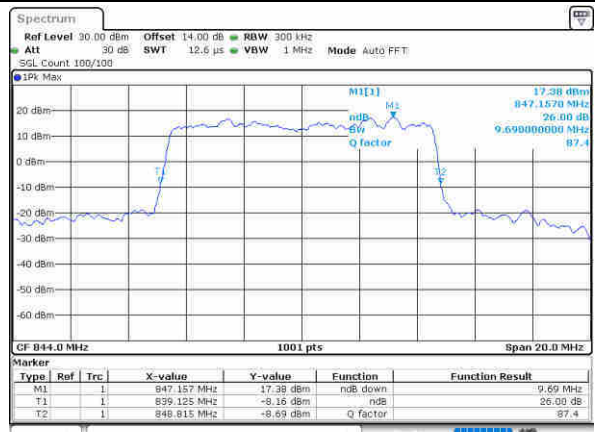
Date: 5/30/2020 16:23:16

Highest Channel / 10MHz / QPSK



Date: 5/30/2020 16:23:19

Highest Channel / 10MHz / 16QAM

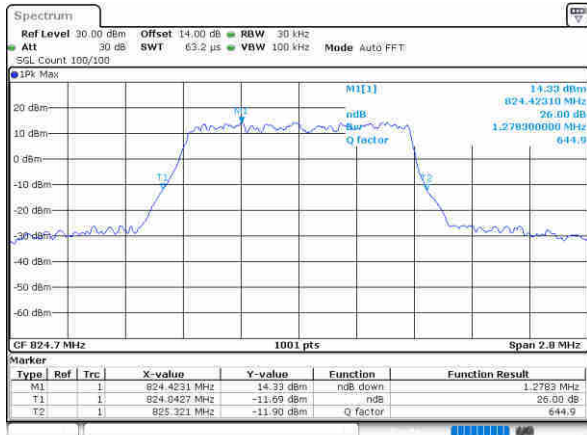


Date: 5/30/2020 16:23:12



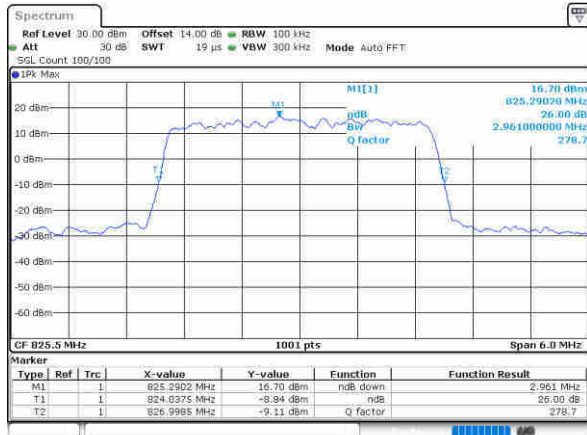
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



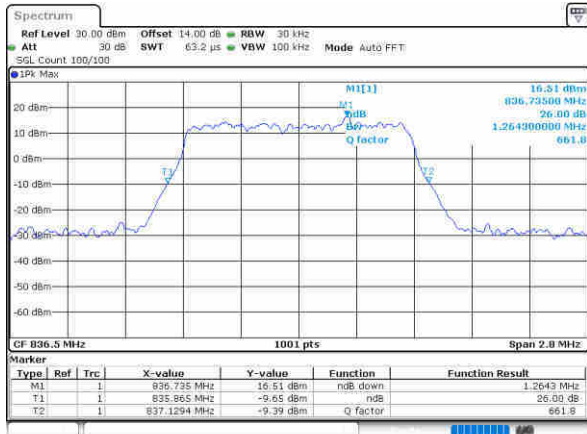
Date: Sat, 2020 17:14:53

Lowest Channel / 3MHz / 64QAM



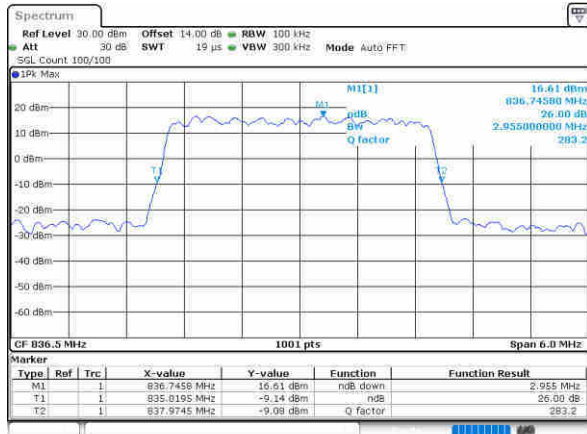
Date: Sat, 2020 15:42:07

Middle Channel / 1.4MHz / 64QAM



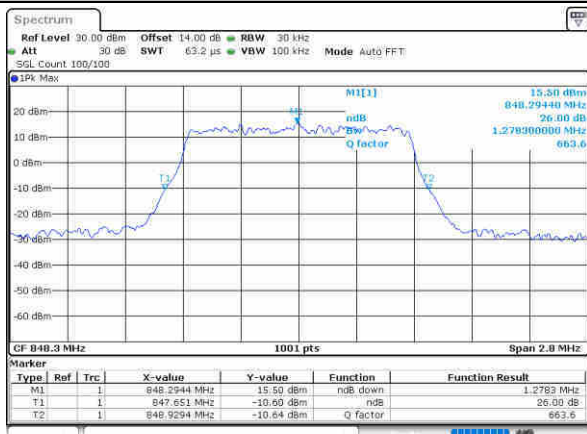
Date: Sat, 2020 17:17:54

Middle Channel / 3MHz / 64QAM



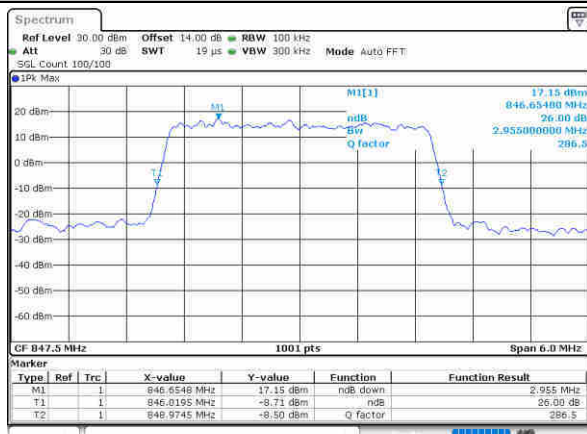
Date: Sat, 2020 15:46:47

Highest Channel / 1.4MHz / 64QAM



Date: Sat, 2020 17:19:16

Highest Channel / 3MHz / 64QAM

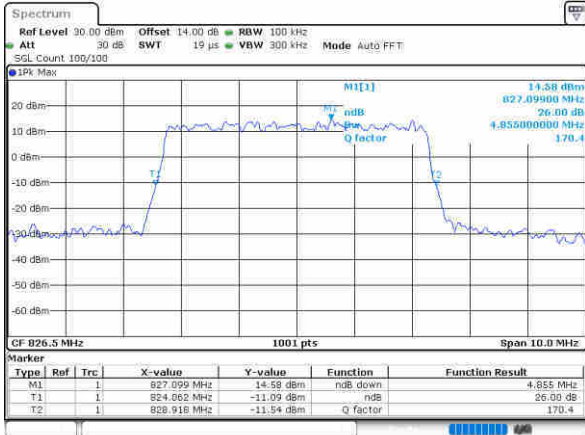


Date: Sat, 2020 15:48:08



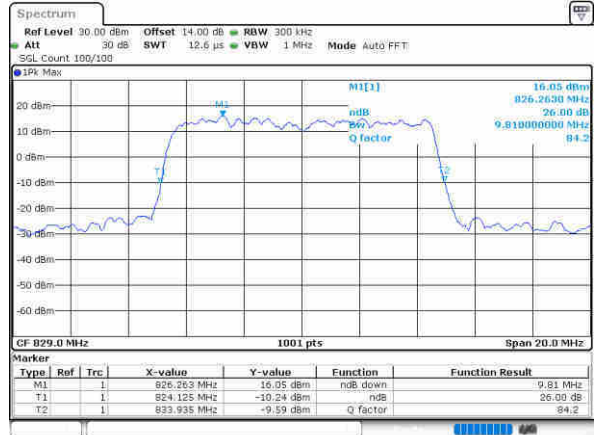
LTE Band 5

Lowest Channel / 5MHz / 64QAM



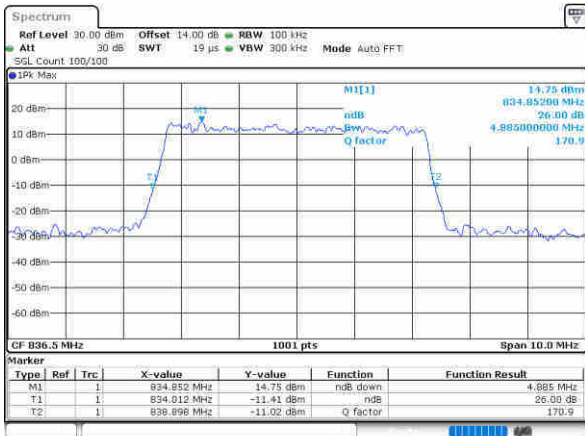
Date: 5/30/2020 16:14:00

Lowest Channel / 10MHz / 64QAM



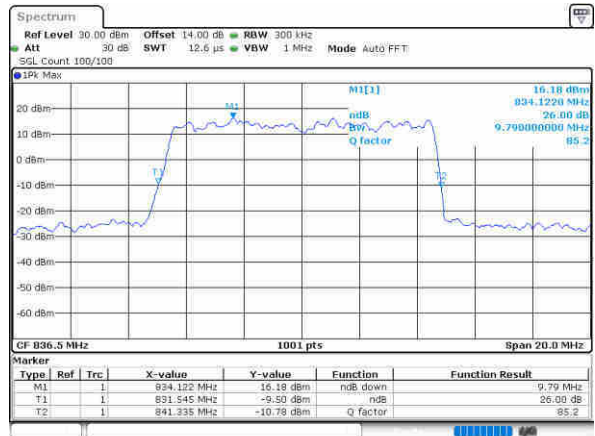
Date: 5/30/2020 16:46:00

Middle Channel / 5MHz / 64QAM



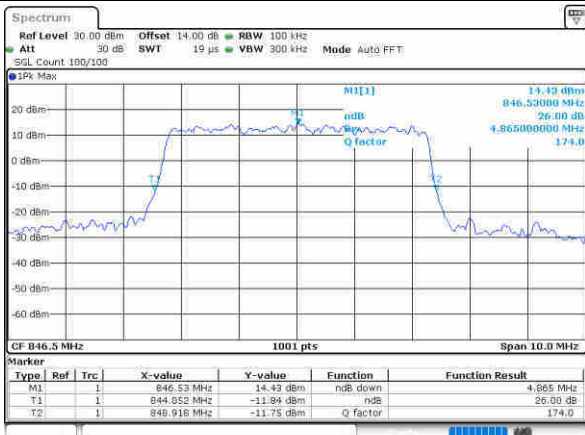
Date: 5/30/2020 16:18:41

Middle Channel / 10MHz / 64QAM



Date: 5/30/2020 16:52:40

Highest Channel / 5MHz / 64QAM



Date: 5/30/2020 16:22:09

Highest Channel / 10MHz / 64QAM



Date: 5/30/2020 16:52:09



Occupied Bandwidth

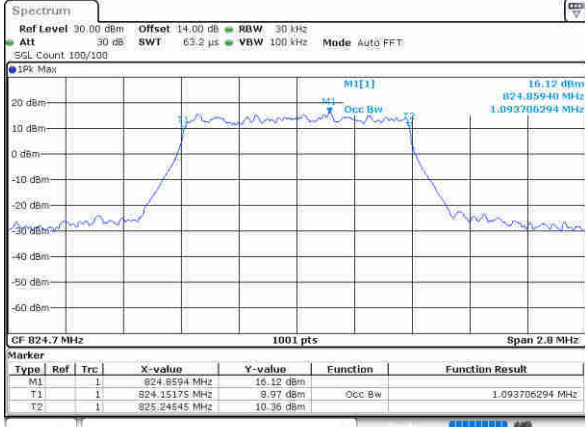
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.08	2.70	2.71	4.49	4.48	9.09	9.01	-	-	-	-
Middle CH	1.09	1.09	2.72	2.72	4.47	4.51	9.07	9.09	-	-	-	-
Highest CH	1.09	1.10	2.73	2.70	4.48	4.48	9.01	9.01	-	-	-	-
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.70	-	4.48	-	9.03	-	-	-	-	-
Middle CH	1.09	-	2.71	-	4.50	-	9.03	-	-	-	-	-
Highest CH	1.09	-	2.72	-	4.50	-	9.03	-	-	-	-	-





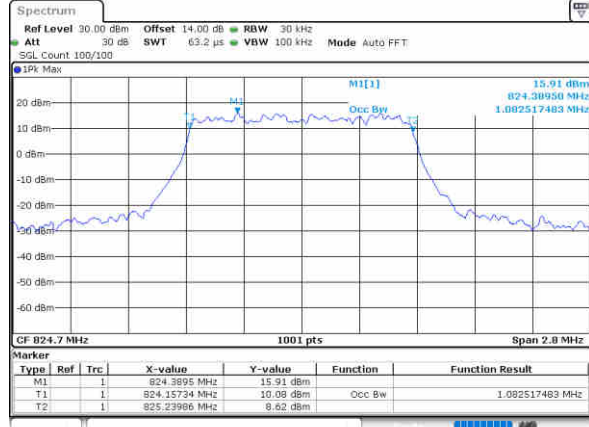
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



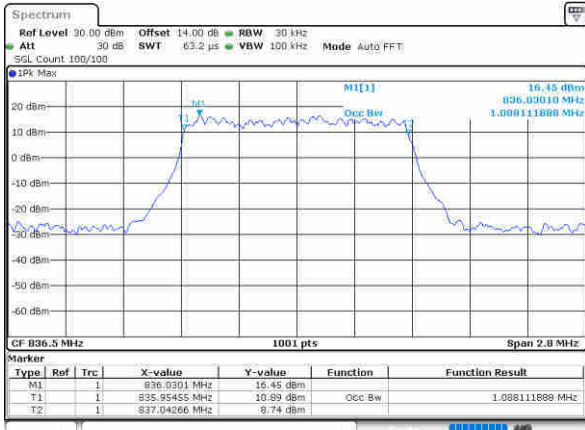
Date: Sat, 2020 16:56:38

Lowest Channel / 1.4MHz / 16QAM



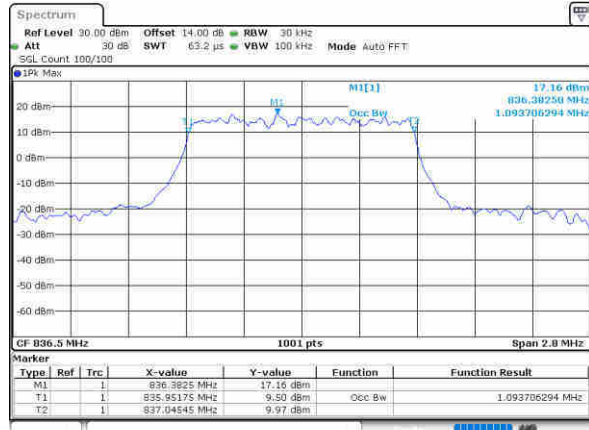
Date: Sat, 2020 16:56:49

Middle Channel / 1.4MHz / QPSK



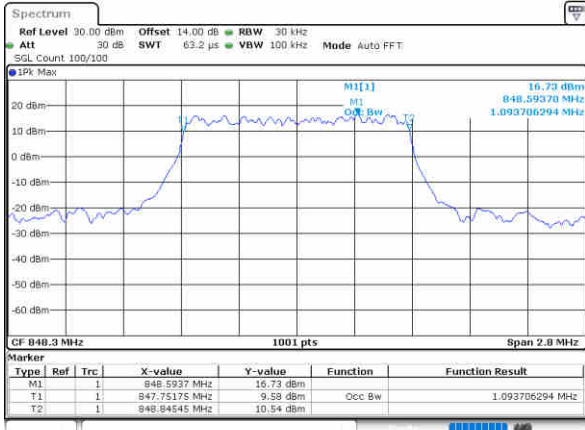
Date: Sat, 2020 17:02:40

Middle Channel / 1.4MHz / 16QAM



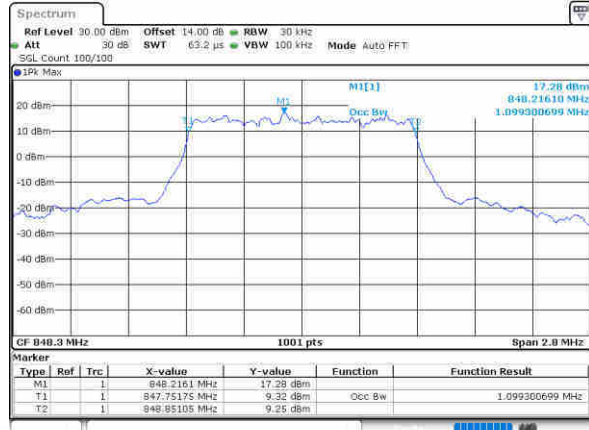
Date: Sat, 2020 17:02:51

Highest Channel / 1.4MHz / QPSK



Date: Sat, 2020 17:05:23

Highest Channel / 1.4MHz / 16QAM

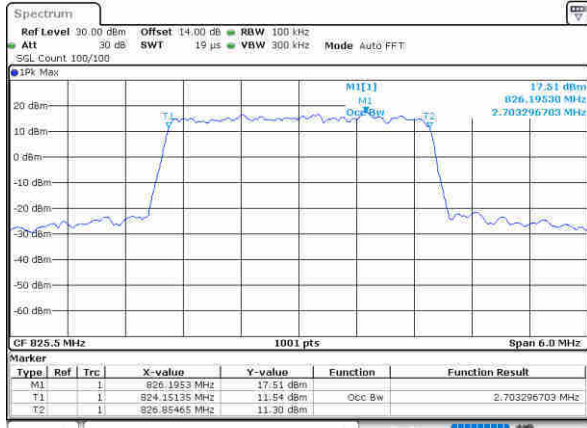


Date: Sat, 2020 17:05:34



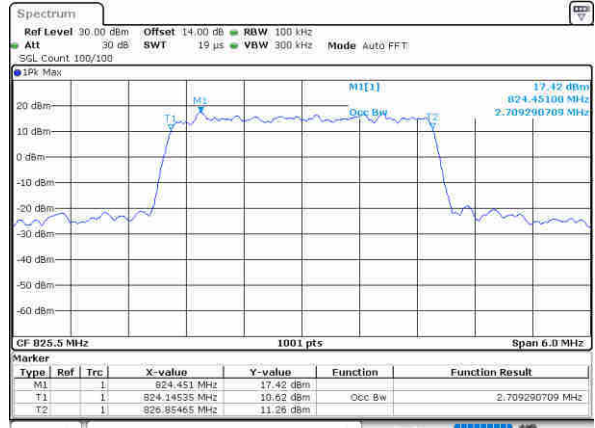
LTE Band 5

Lowest Channel / 3MHz / QPSK



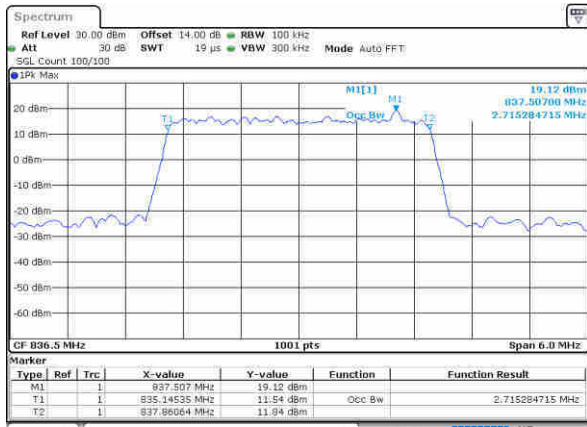
Date: Sat, 09/30/2020 15:29:36

Lowest Channel / 3MHz / 16QAM



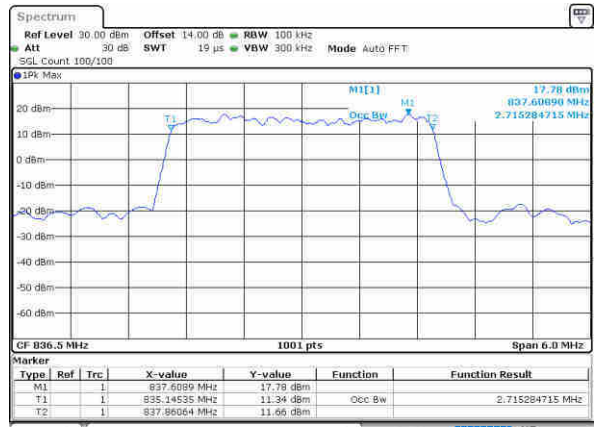
Date: Sat, 09/30/2020 15:29:47

Middle Channel / 3MHz / QPSK



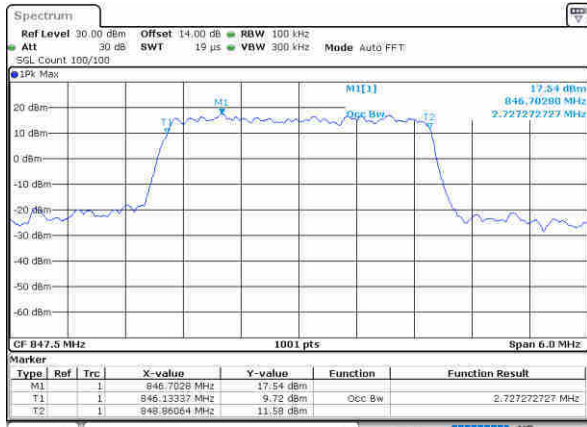
Date: Sat, 09/30/2020 15:29:55

Middle Channel / 3MHz / 16QAM



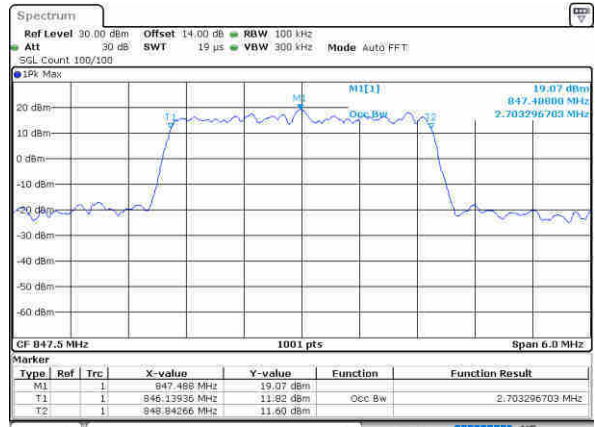
Date: Sat, 09/30/2020 15:30:06

Highest Channel / 3MHz / QPSK



Date: Sat, 09/30/2020 15:32:37

Highest Channel / 3MHz / 16QAM

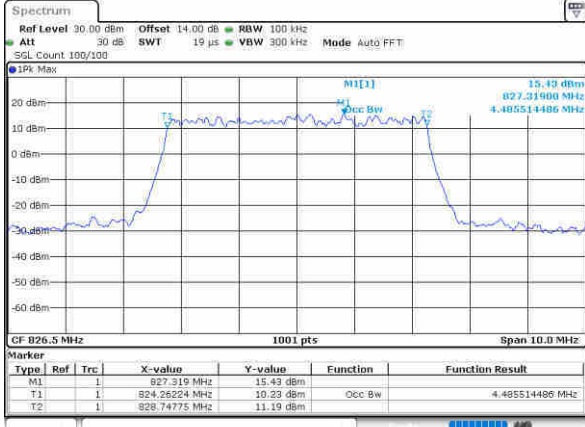


Date: Sat, 09/30/2020 15:32:48



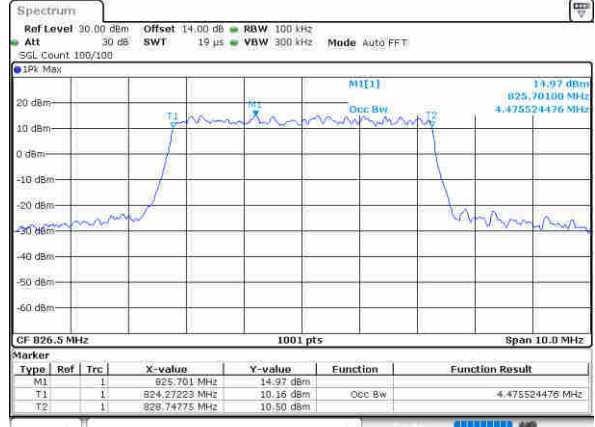
LTE Band 5

Lowest Channel / 5MHz / QPSK



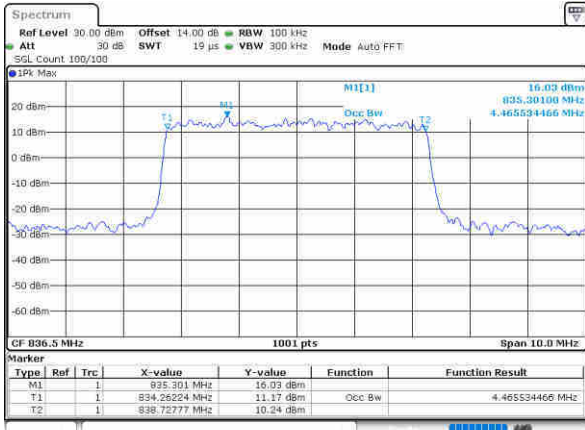
Date: S:\JRM\2020 15:52:36

Lowest Channel / 5MHz / 16QAM



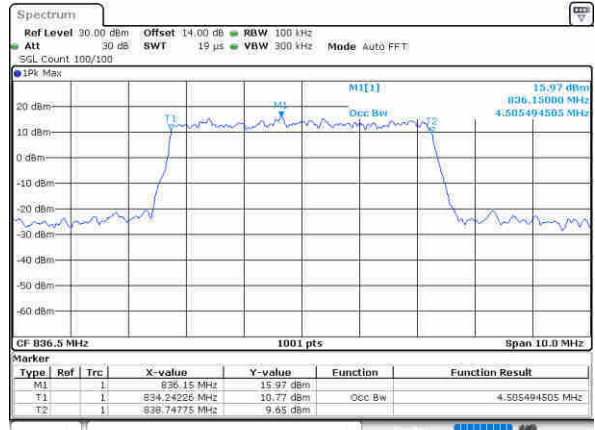
Date: S:\JRM\2020 15:52:47

Middle Channel / 5MHz / QPSK



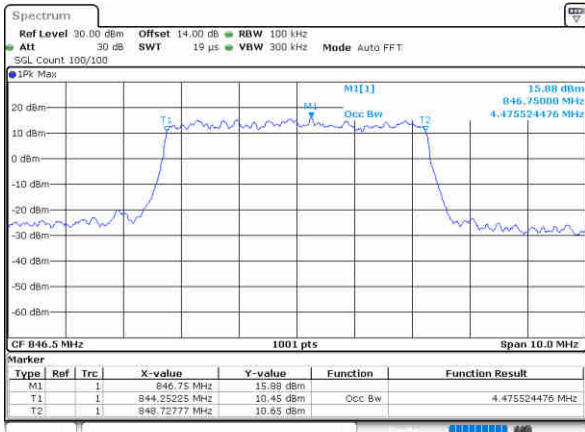
Date: S:\JRM\2020 16:01:55

Middle Channel / 5MHz / 16QAM



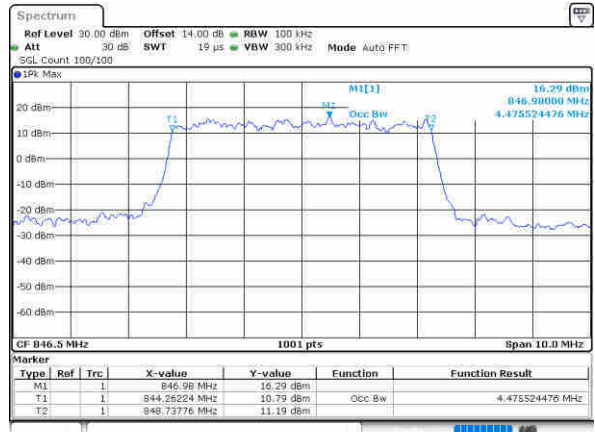
Date: S:\JRM\2020 16:02:06

Highest Channel / 5MHz / QPSK



Date: S:\JRM\2020 16:04:38

Highest Channel / 5MHz / 16QAM

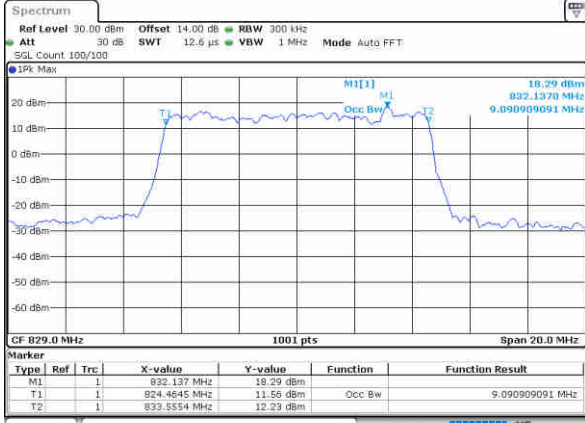


Date: S:\JRM\2020 16:04:49



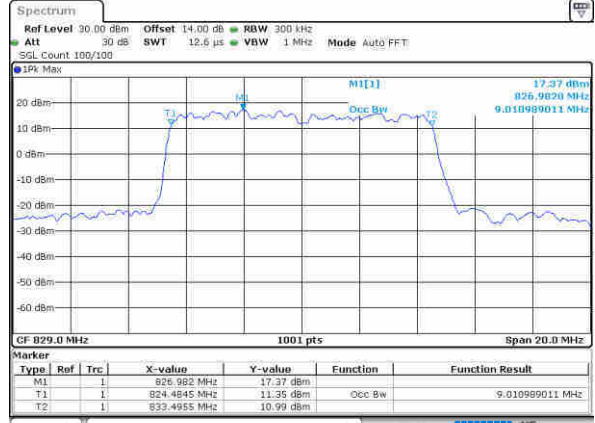
LTE Band 5

Lowest Channel / 10MHz / QPSK



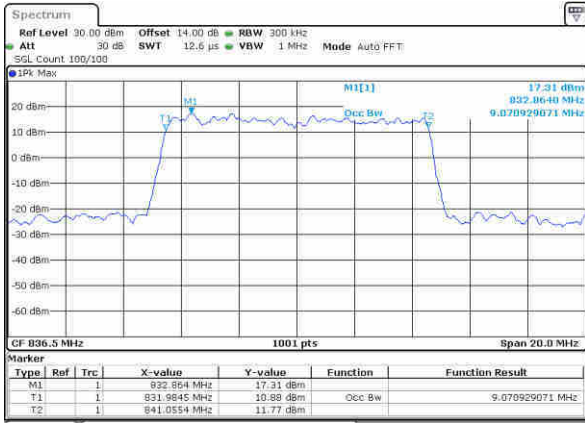
Date: 5/30/2020 16:23:38

Lowest Channel / 10MHz / 16QAM



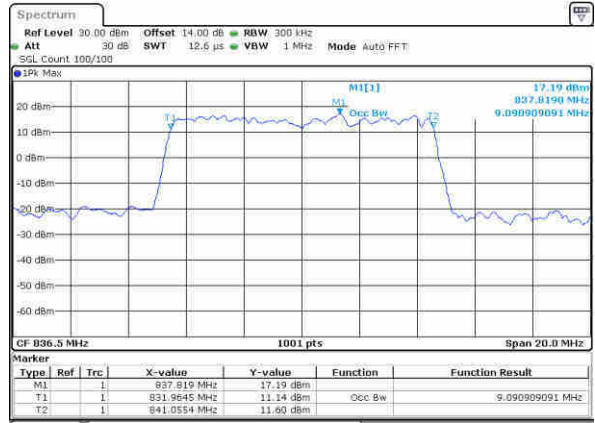
Date: 5/30/2020 16:23:49

Middle Channel / 10MHz / QPSK



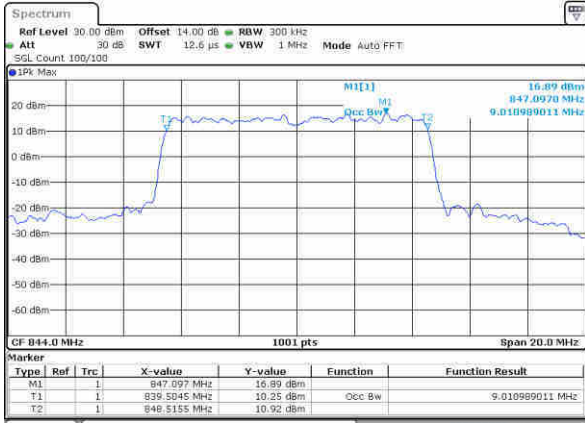
Date: 5/30/2020 16:23:51

Middle Channel / 10MHz / 16QAM



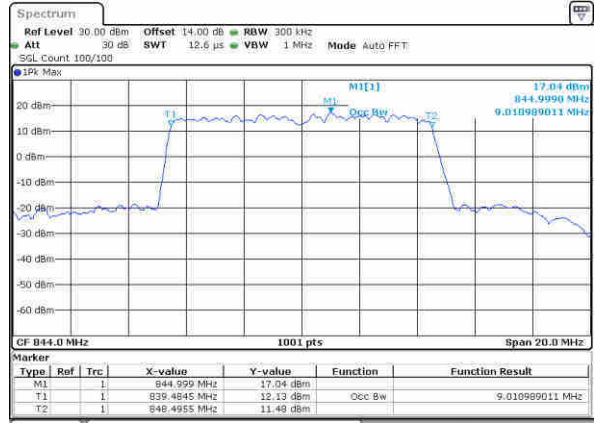
Date: 5/30/2020 16:23:50

Highest Channel / 10MHz / QPSK



Date: 5/30/2020 16:23:53

Highest Channel / 10MHz / 16QAM

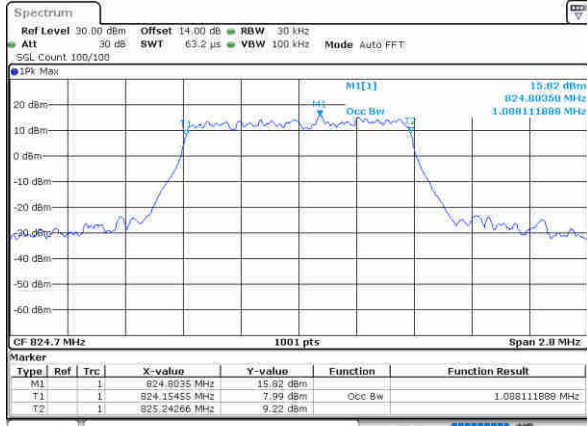


Date: 5/30/2020 16:23:50



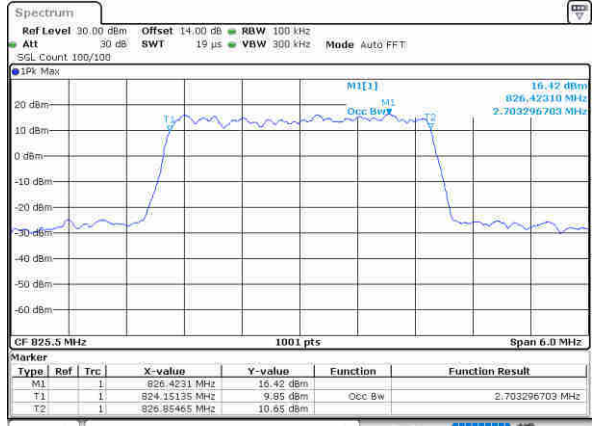
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



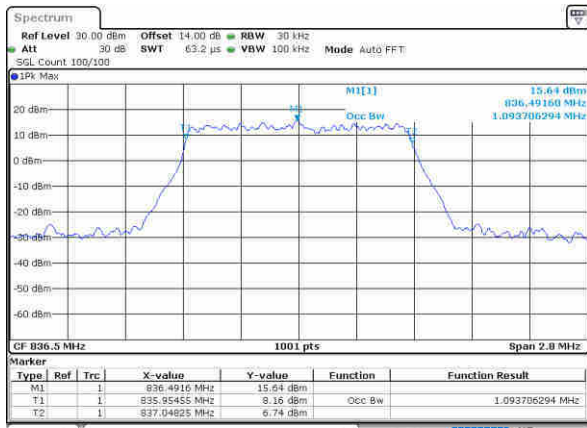
Date: Su,Jun,2020 17:14:42

Lowest Channel / 3MHz / 64QAM



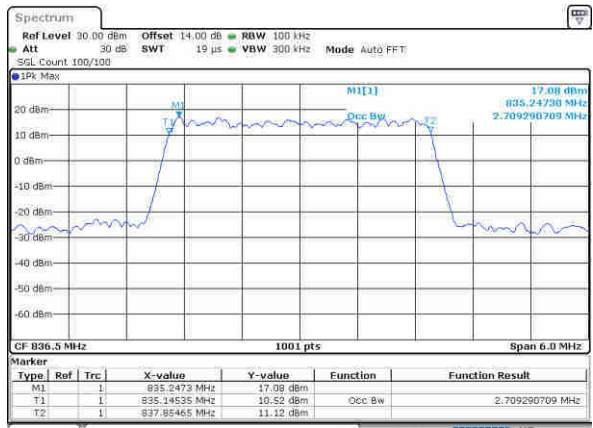
Date: Su,Jun,2020 15:41:56

Middle Channel / 1.4MHz / 64QAM



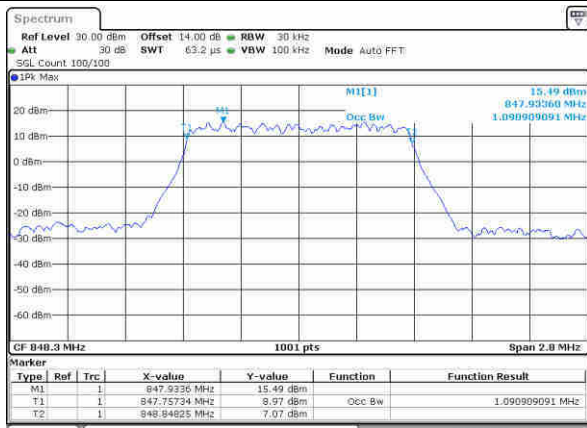
Date: Su,Jun,2020 17:17:43

Middle Channel / 3MHz / 64QAM



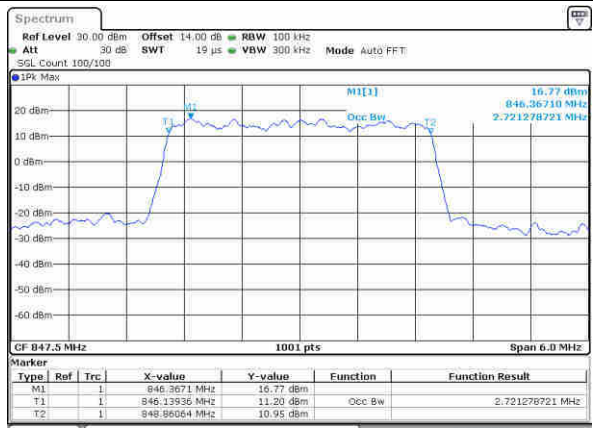
Date: Su,Jun,2020 15:46:36

Highest Channel / 1.4MHz / 64QAM



Date: Su,Jun,2020 17:19:05

Highest Channel / 3MHz / 64QAM



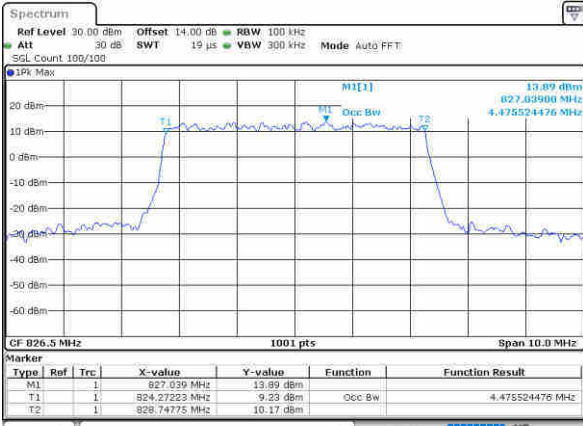
Date: Su,Jun,2020 15:47:57





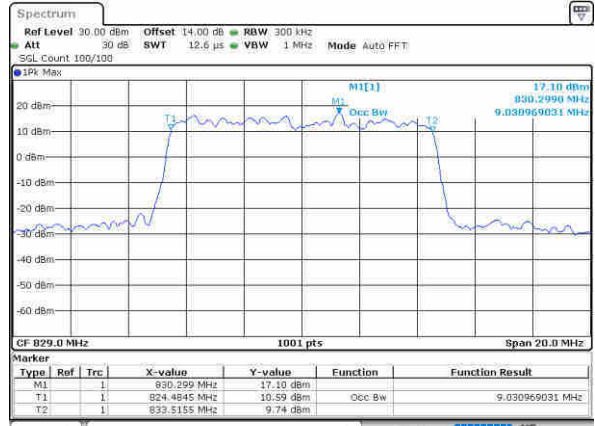
LTE Band 5

Lowest Channel / 5MHz / 64QAM



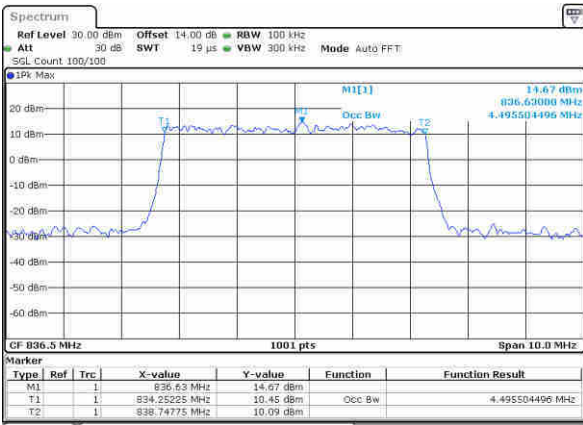
Date: 5/30/2020 16:13:57

Lowest Channel / 10MHz / 64QAM



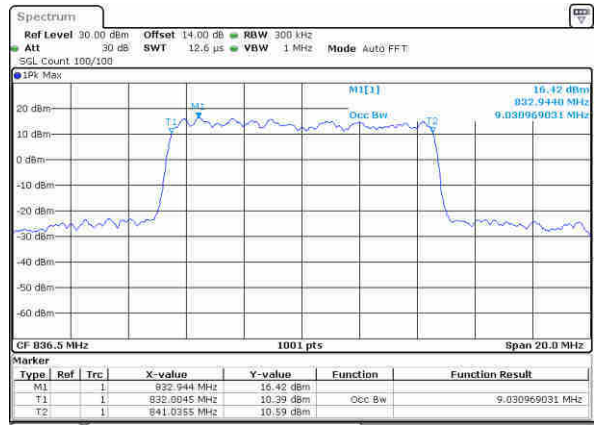
Date: 5/30/2020 16:45:57

Middle Channel / 5MHz / 64QAM



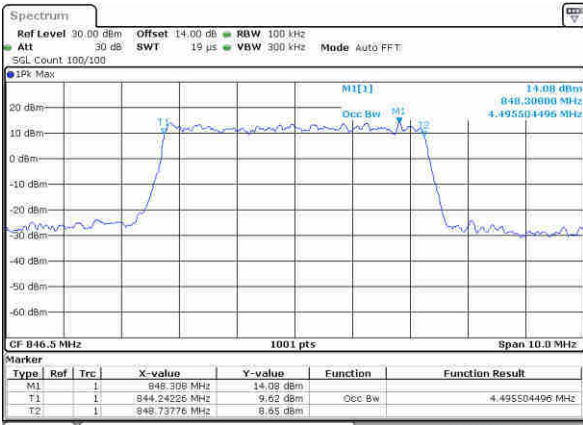
Date: 5/30/2020 16:18:36

Middle Channel / 10MHz / 64QAM



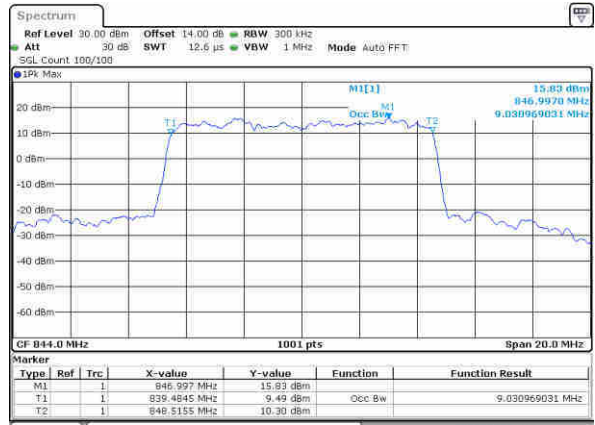
Date: 5/30/2020 16:50:37

Highest Channel / 5MHz / 64QAM



Date: 5/30/2020 16:19:58

Highest Channel / 10MHz / 64QAM

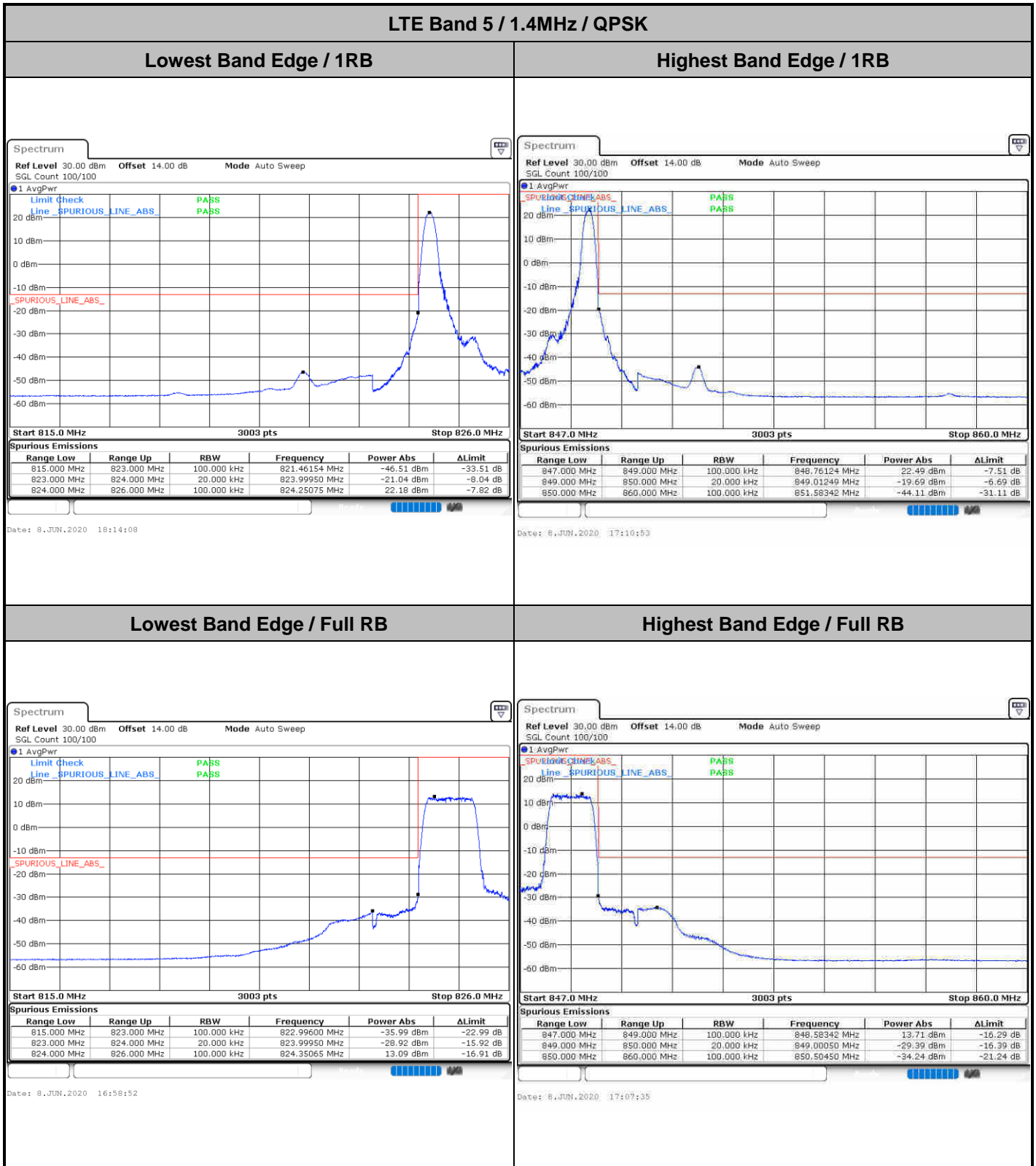


Date: 5/30/2020 16:51:58





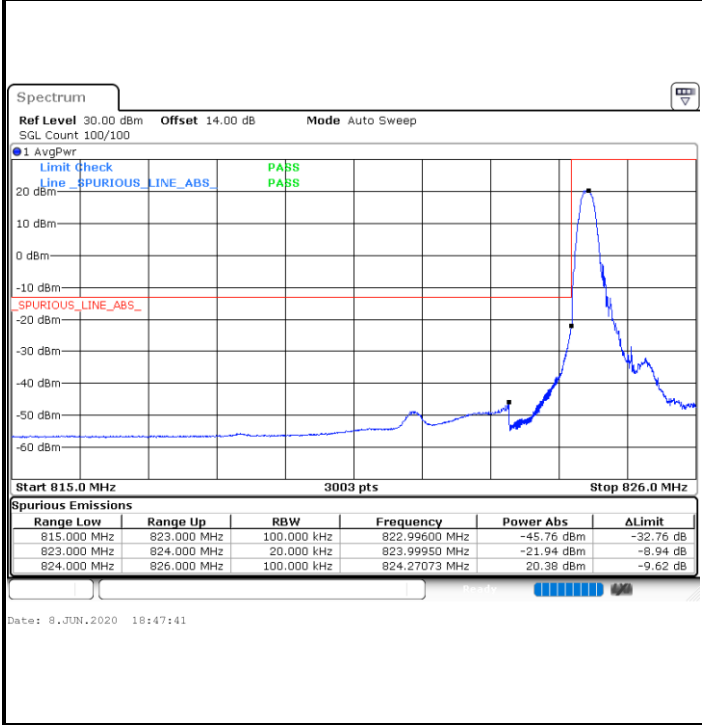
# Conducted Band Edge



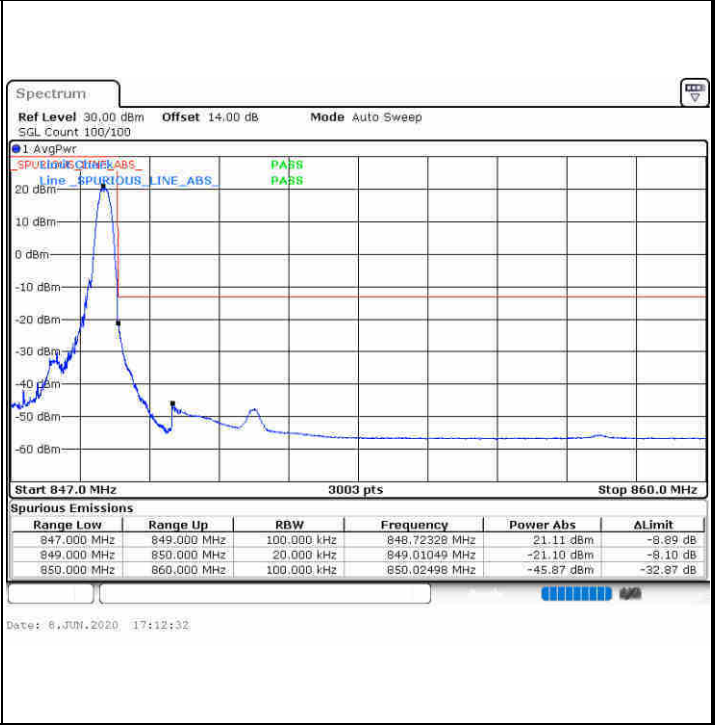


**LTE Band 5 / 1.4MHz / 16QAM**

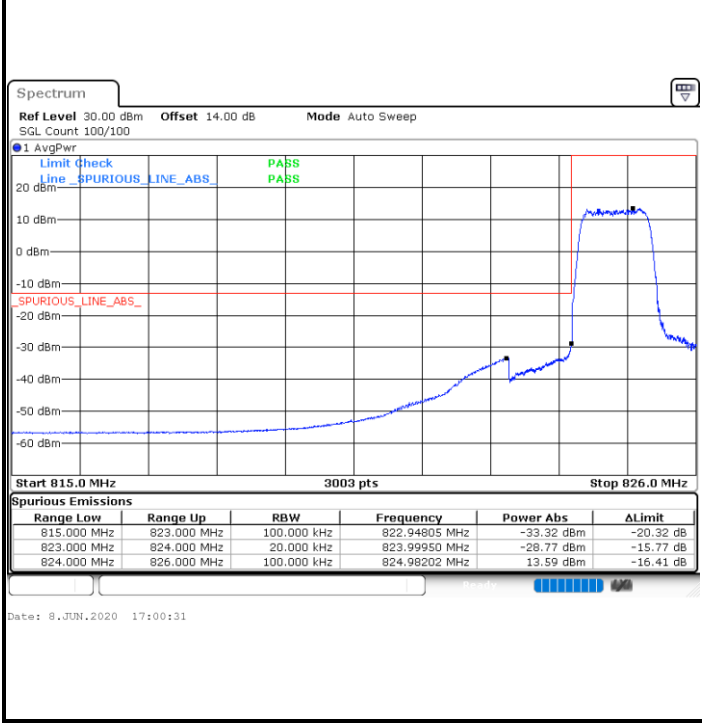
**Lowest Band Edge / 1 RB**



**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



**Highest Band Edge / Full RB**





LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



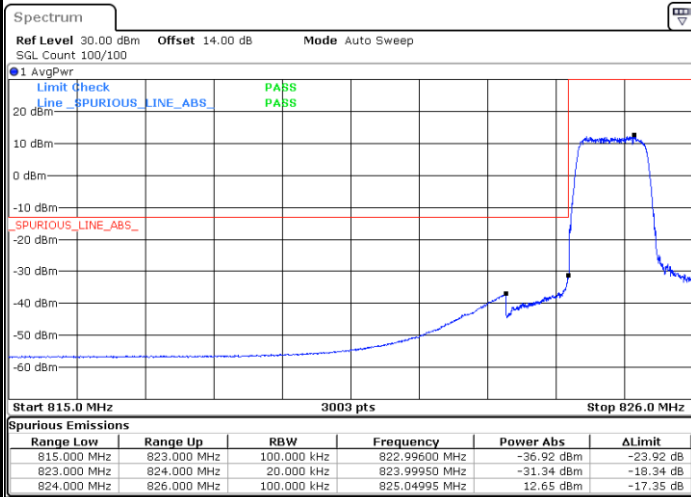
Date: 8 JUN 2020 18:49:03

Highest Band Edge / 1 RB



Date: 8 JUN 2020 17:22:34

Lowest Band Edge / Full RB



Date: 8 JUN 2020 17:16:33

Highest Band Edge / Full RB

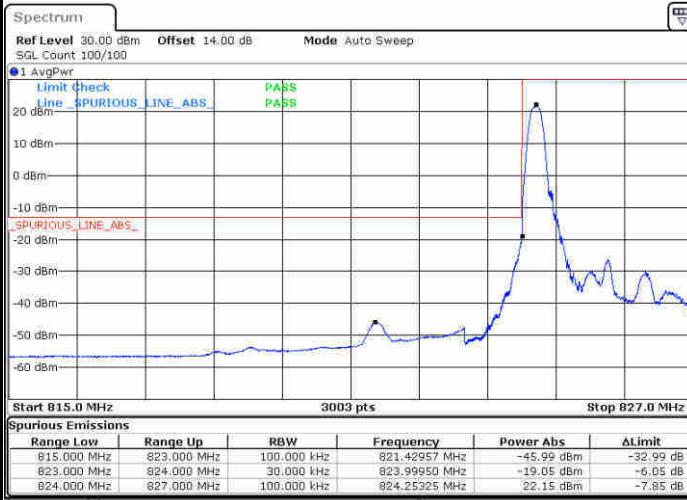


Date: 8 JUN 2020 17:20:55



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



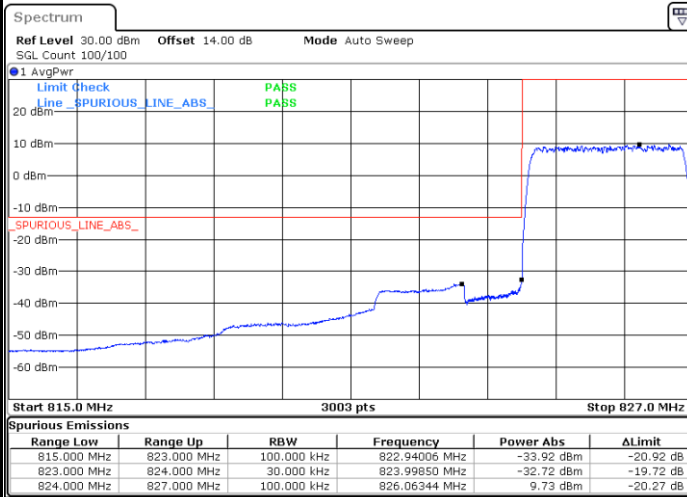
Date: 8 JUN 2020 15:22:48

Highest Band Edge / 1 RB



Date: 8 JUN 2020 15:34:49

Lowest Band Edge / Full RB



Date: 8 JUN 2020 15:26:06

Highest Band Edge / Full RB

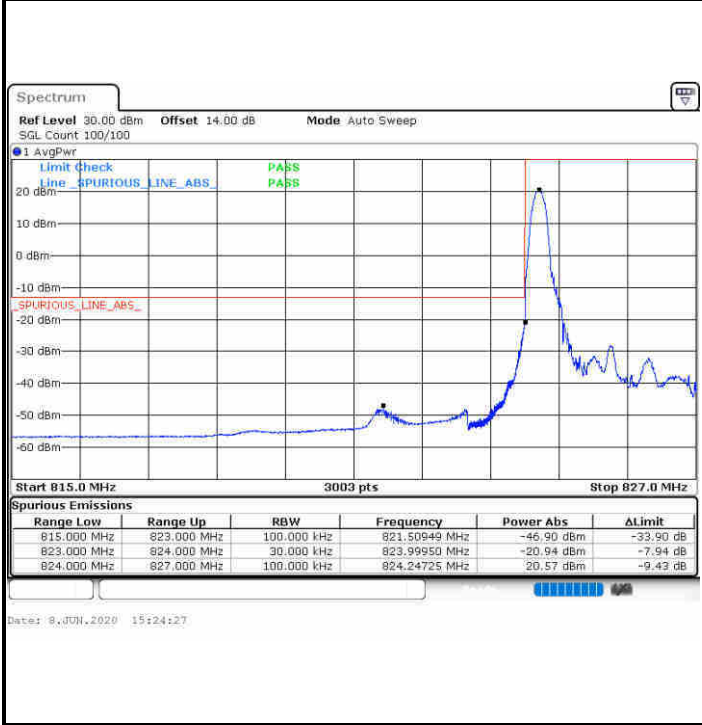


Date: 8 JUN 2020 15:38:07

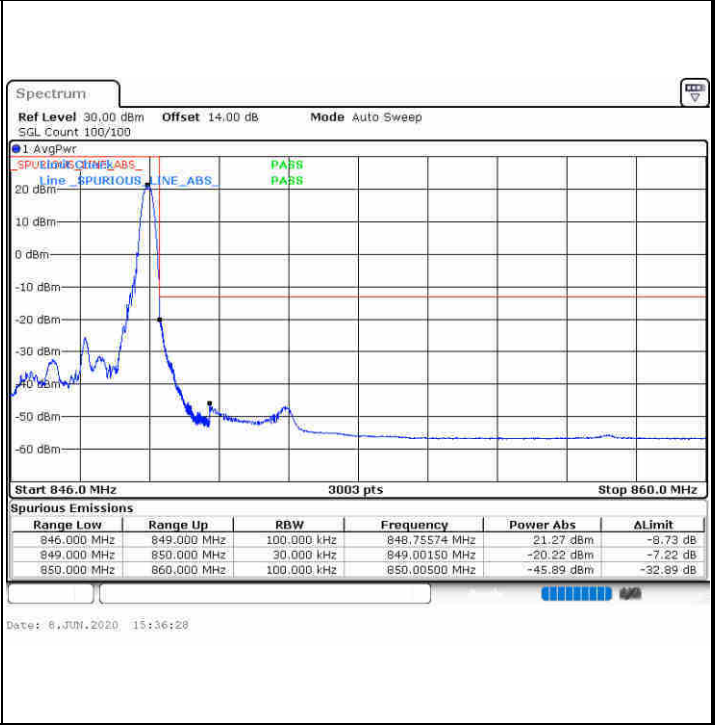


**LTE Band 5 / 3MHz / 16QAM**

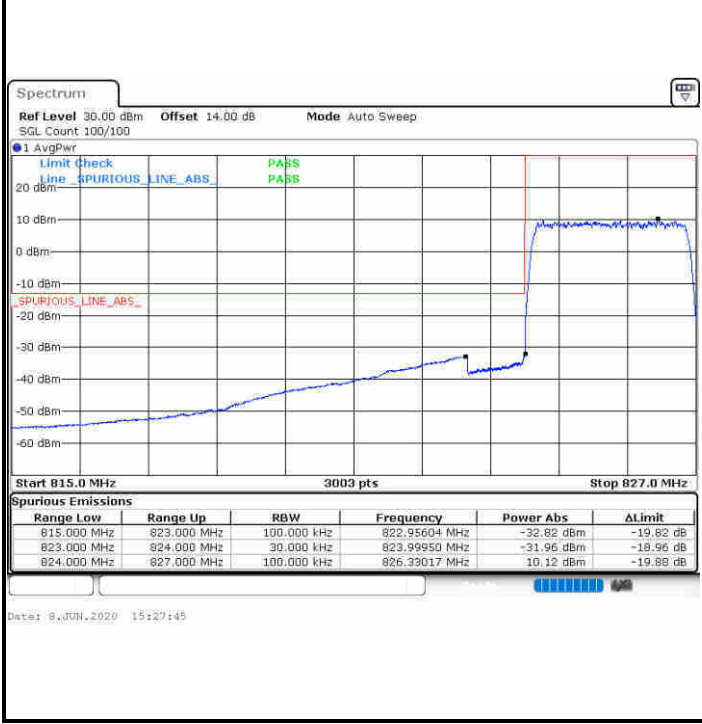
**Lowest Band Edge / 1 RB**



**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



**Highest Band Edge / Full RB**

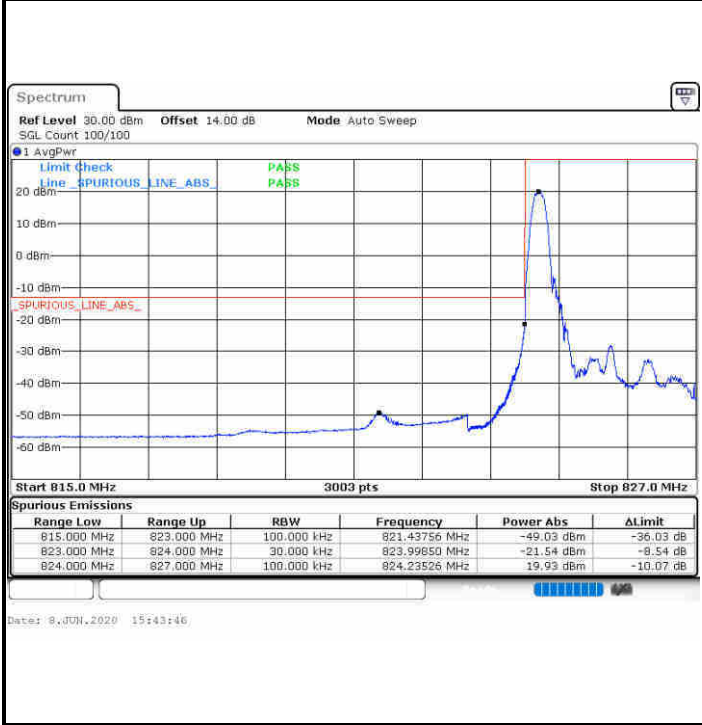




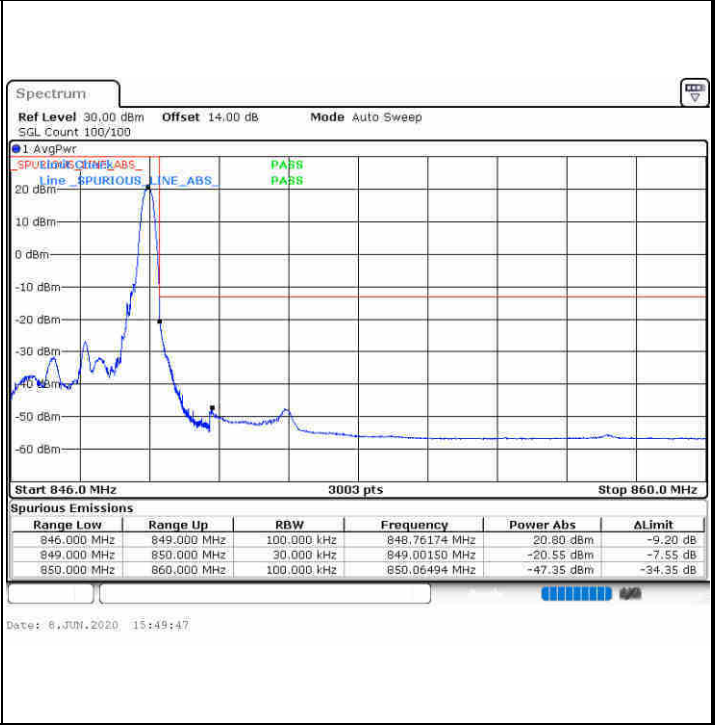


LTE Band 5 / 3MHz / 64QAM

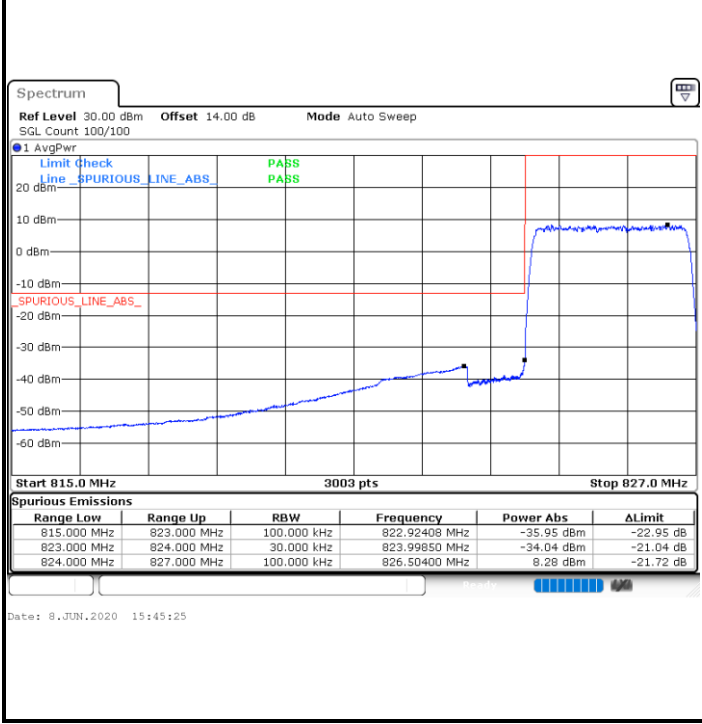
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



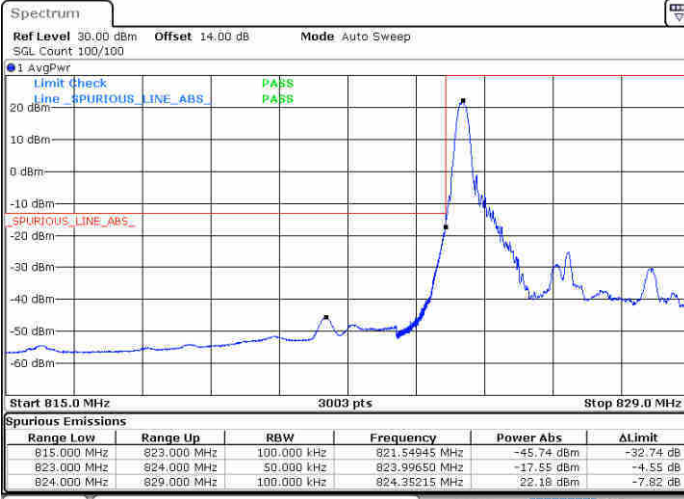




LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

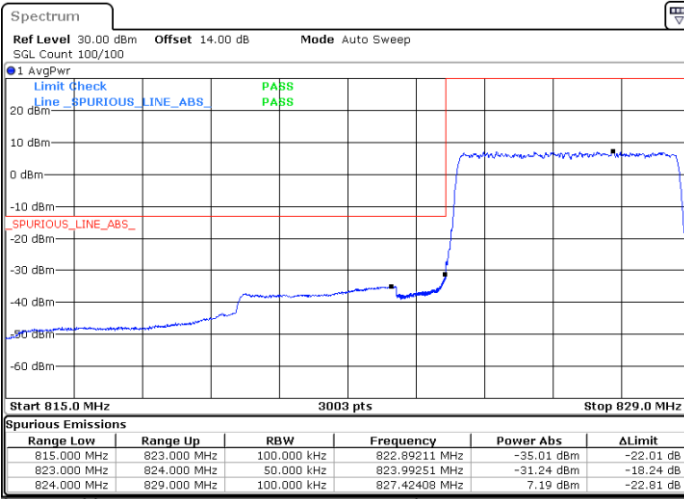


Date: 8 JUN, 2020 15:54:49

Date: 8 JUN, 2020 16:06:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



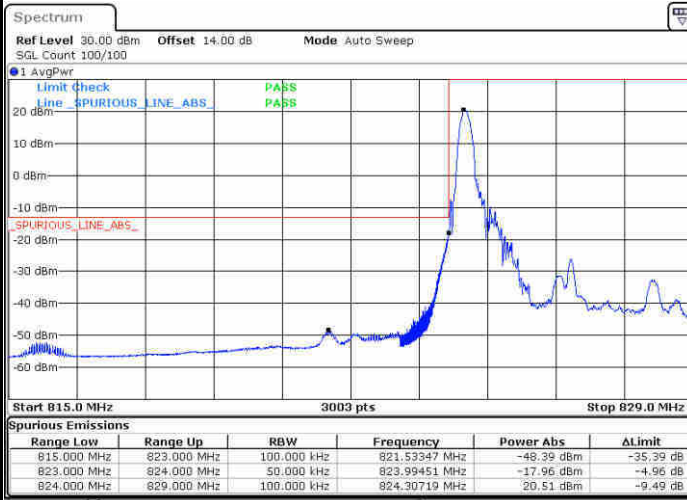
Date: 8 JUN, 2020 15:58:07

Date: 8 JUN, 2020 16:10:08

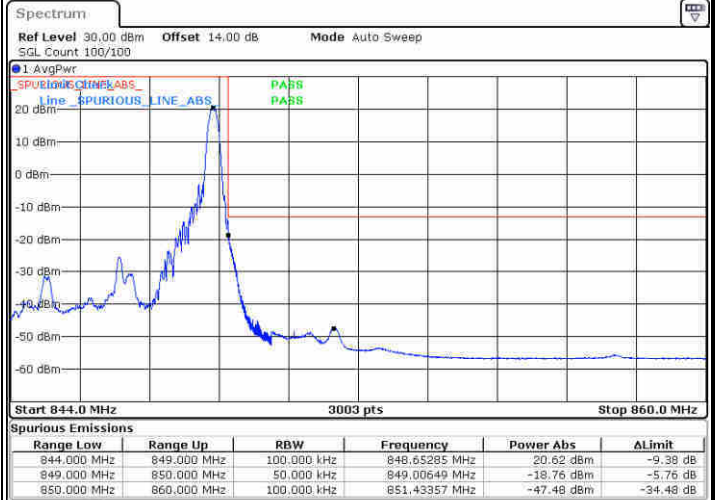


LTE Band 5 / 5MHz / 16QAM

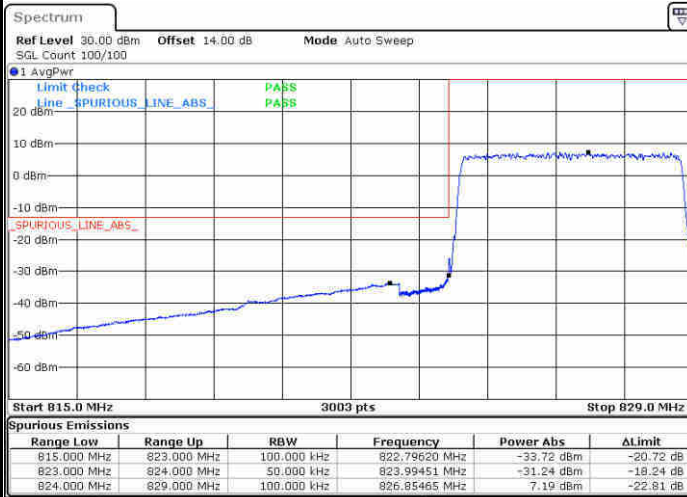
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



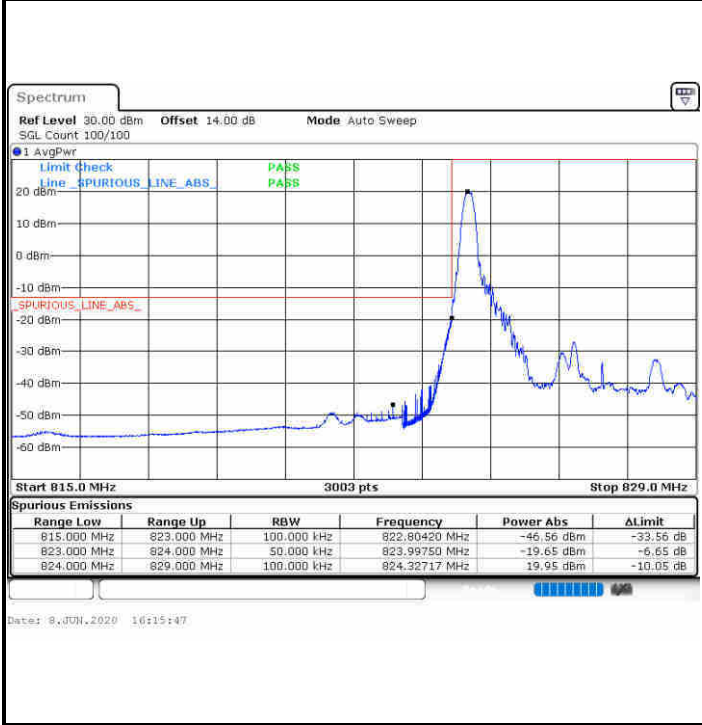
Highest Band Edge / Full RB



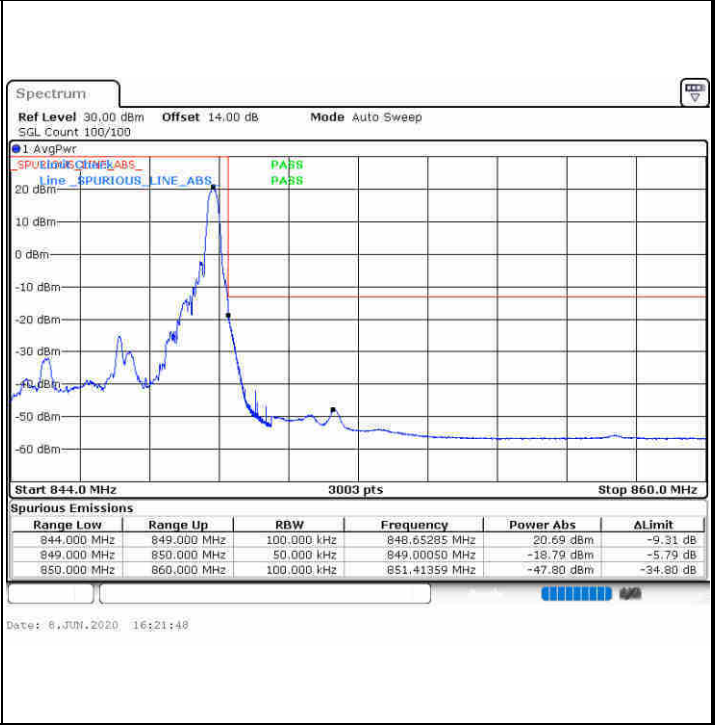


LTE Band 5 / 5MHz / 64QAM

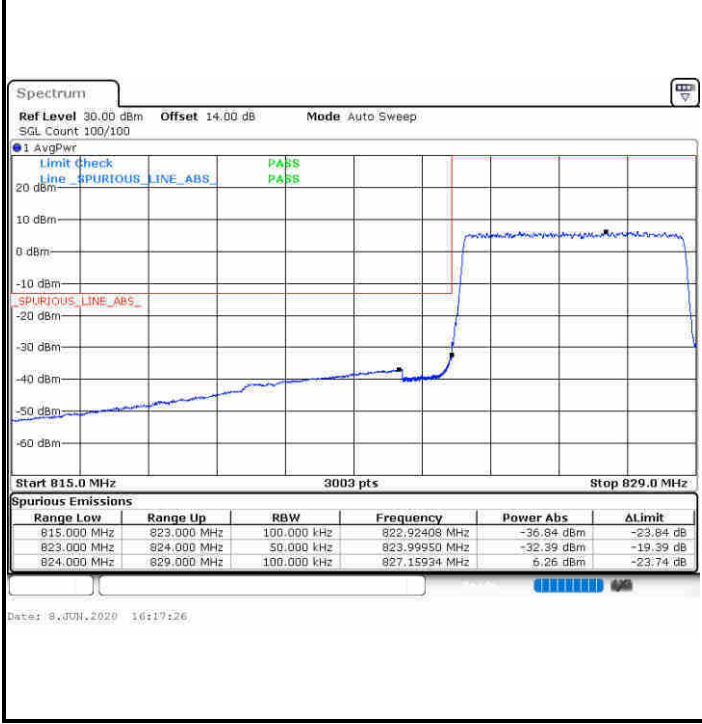
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

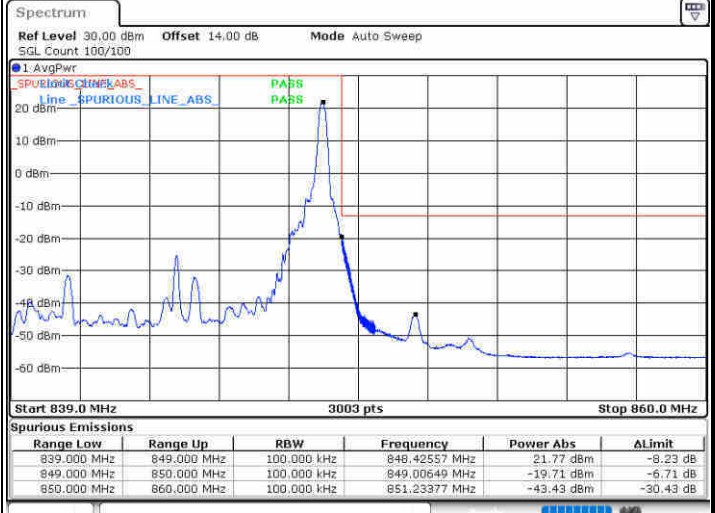
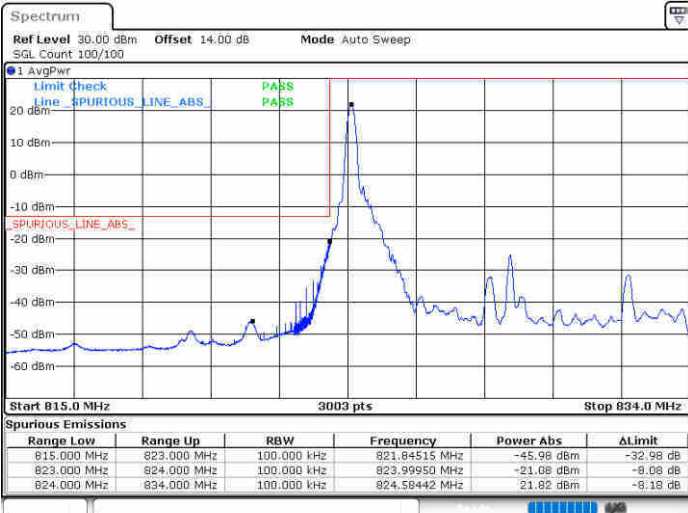




LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

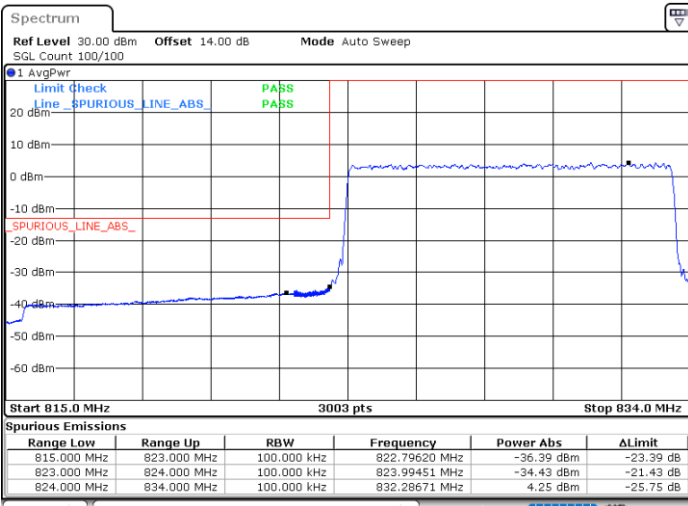


Date: 8 JUN, 2020 16:25:50

Date: 8 JUN, 2020 16:37:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8 JUN, 2020 16:29:08

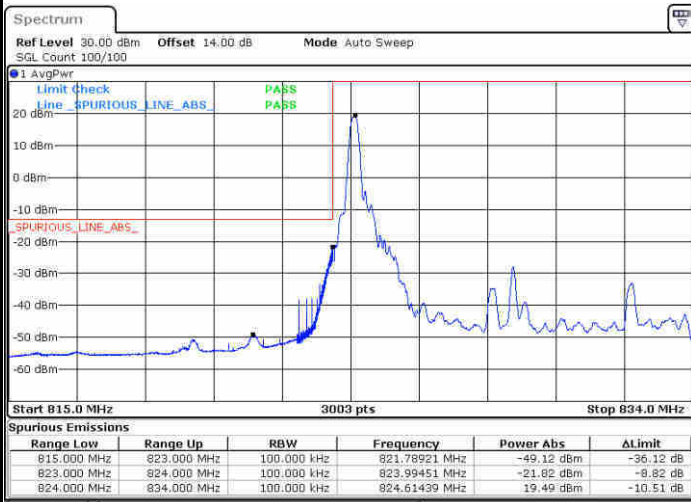
Date: 8 JUN, 2020 16:41:10





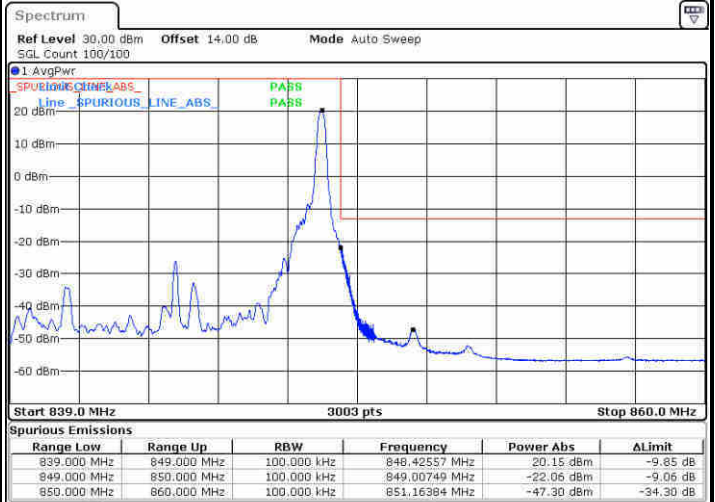
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



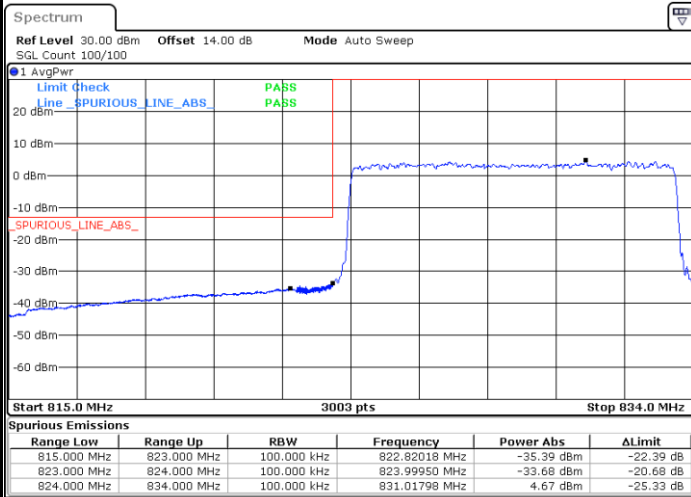
Date: 8 JUN 2020 16:27:29

Highest Band Edge / 1 RB



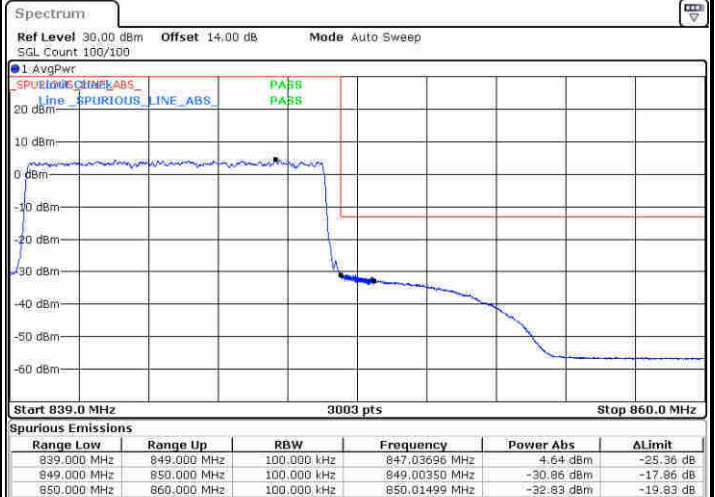
Date: 8 JUN 2020 16:39:31

Lowest Band Edge / Full RB



Date: 8 JUN 2020 16:30:47

Highest Band Edge / Full RB

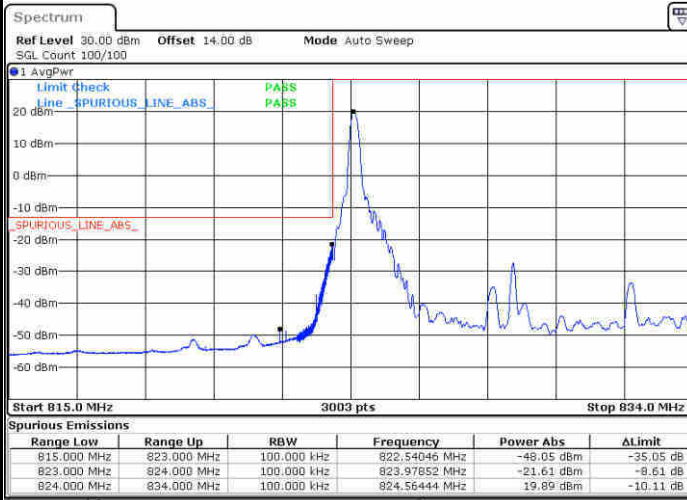


Date: 8 JUN 2020 16:42:49



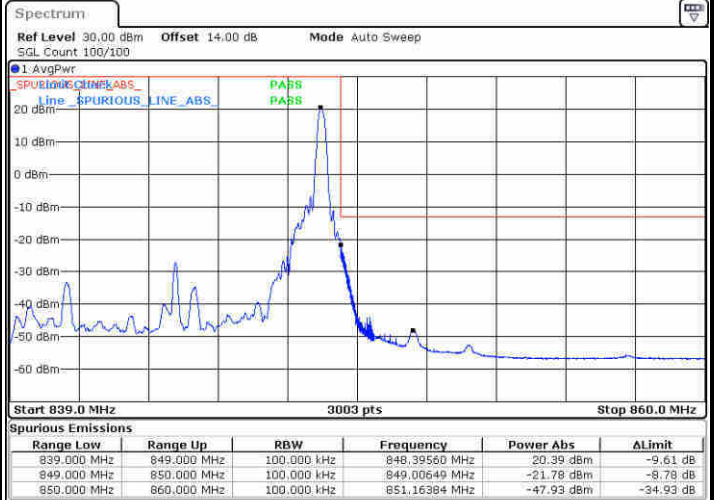
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



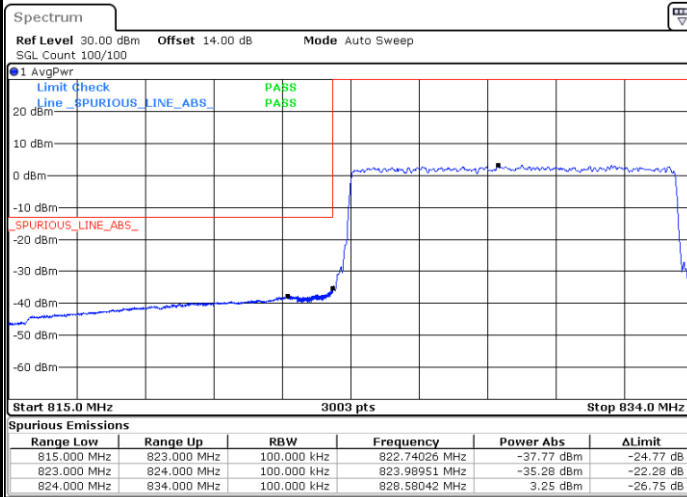
Date: 8 JUN 2020 16:47:47

Highest Band Edge / 1 RB



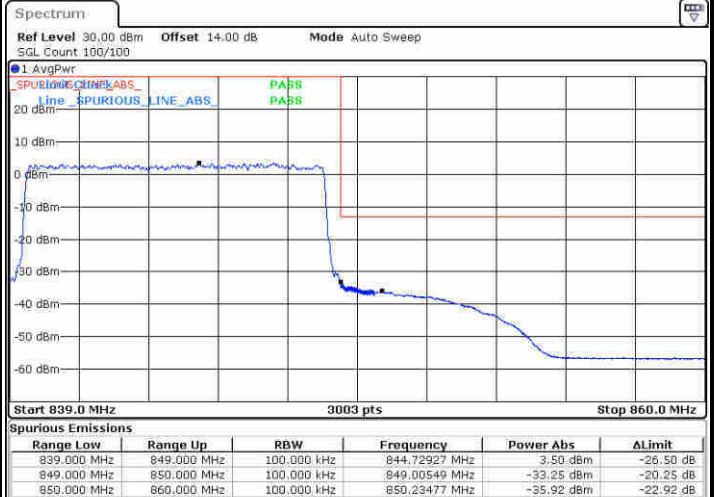
Date: 8 JUN 2020 16:53:48

Lowest Band Edge / Full RB



Date: 8 JUN 2020 16:49:26

Highest Band Edge / Full RB

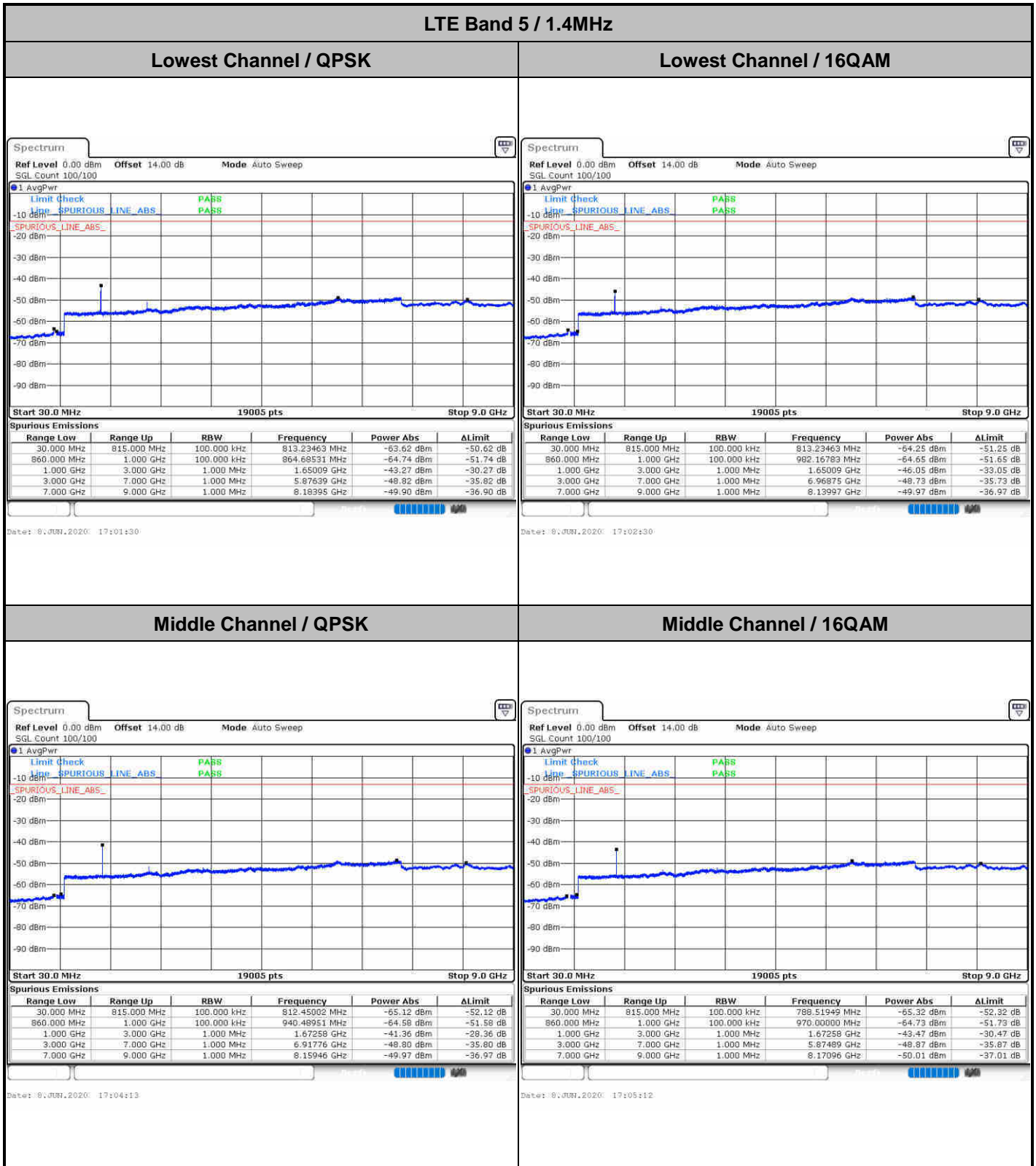


Date: 8 JUN 2020 16:55:27





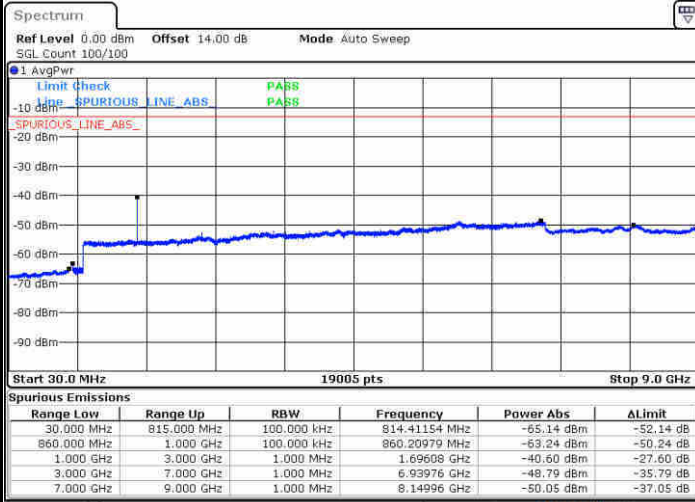
# Conducted Spurious Emission





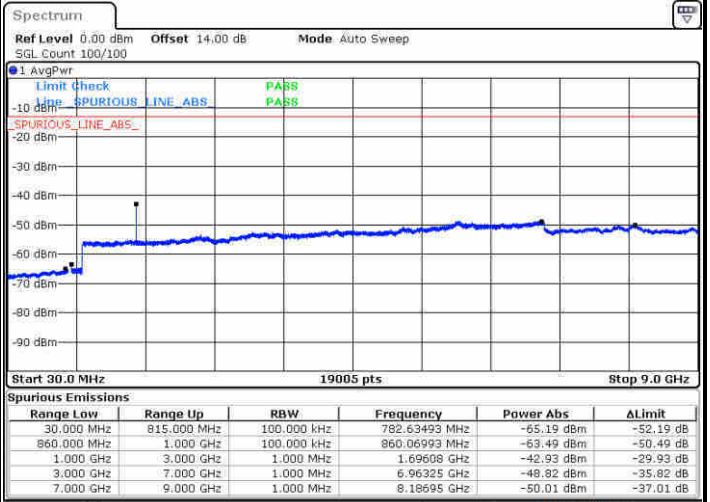
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 01/JUN/2020 17:13:32

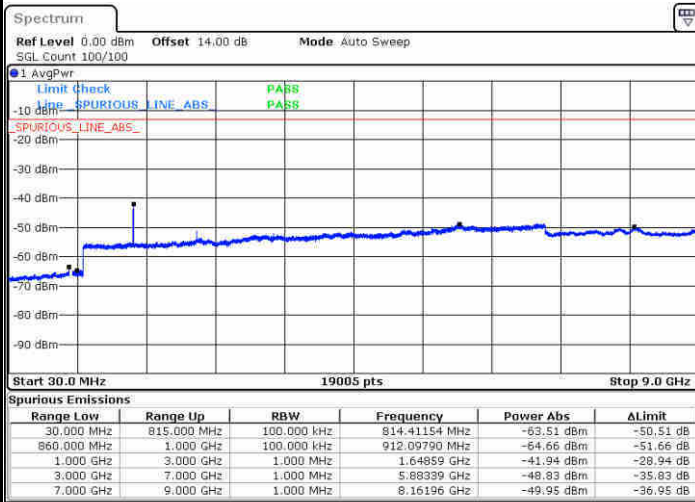
Highest Channel / 16QAM



Date: 01/JUN/2020 17:14:31

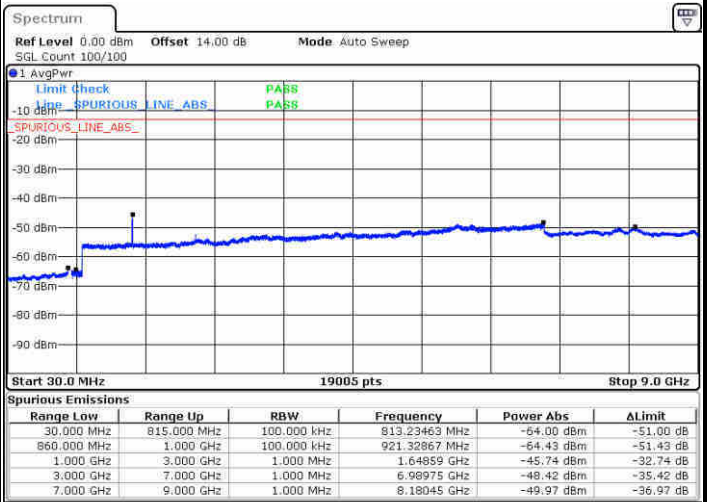
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 01/JUN/2020 15:28:45

Lowest Channel / 16QAM



Date: 01/JUN/2020 15:29:44