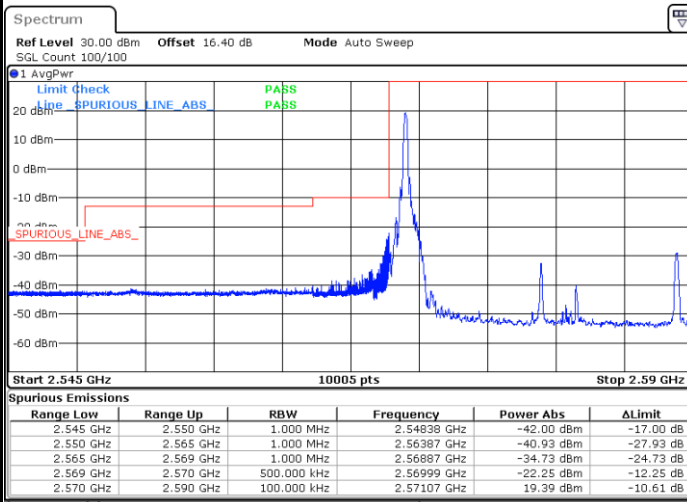




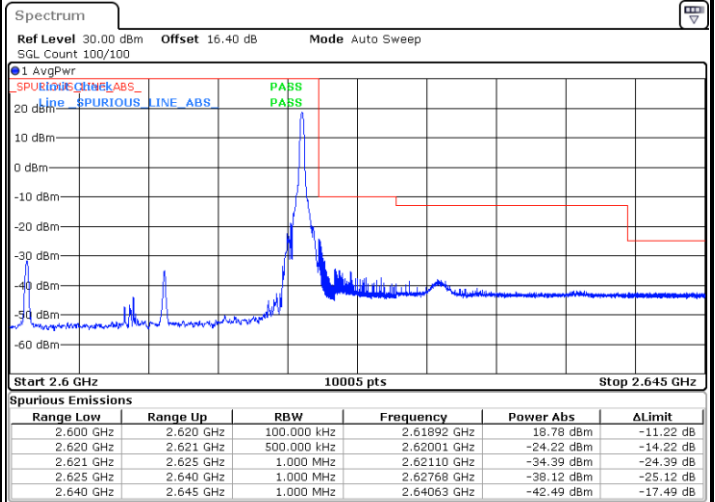
LTE Band 38 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



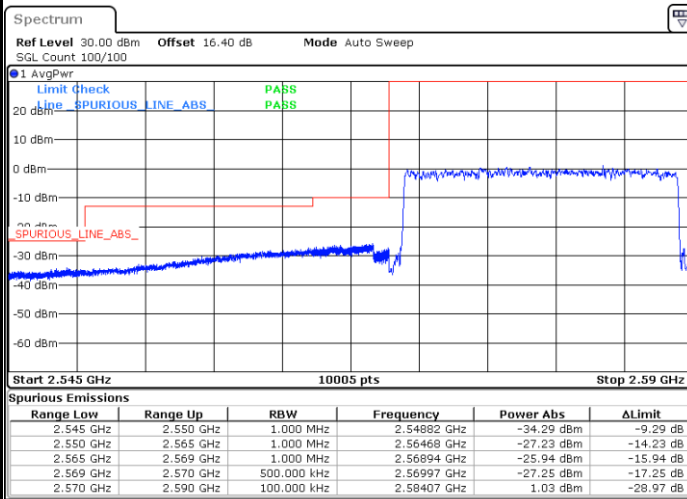
Date: 19\_SEP.2020 04:39:28

Highest Band Edge / 1 RB



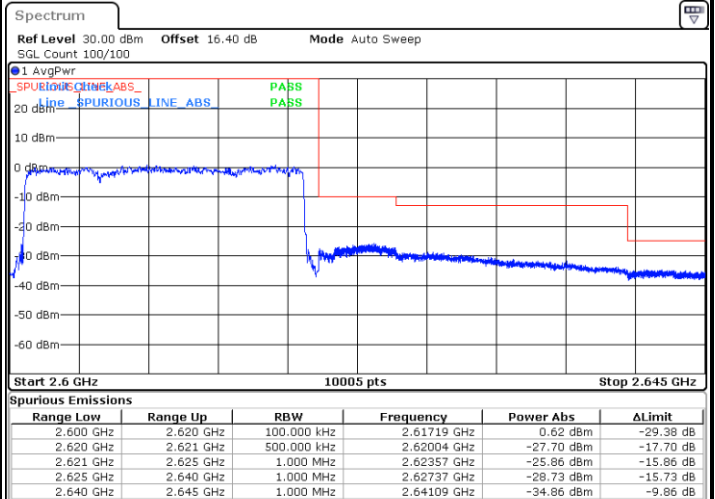
Date: 19\_SEP.2020 04:42:00

Lowest Band Edge / Full RB



Date: 19\_SEP.2020 04:40:18

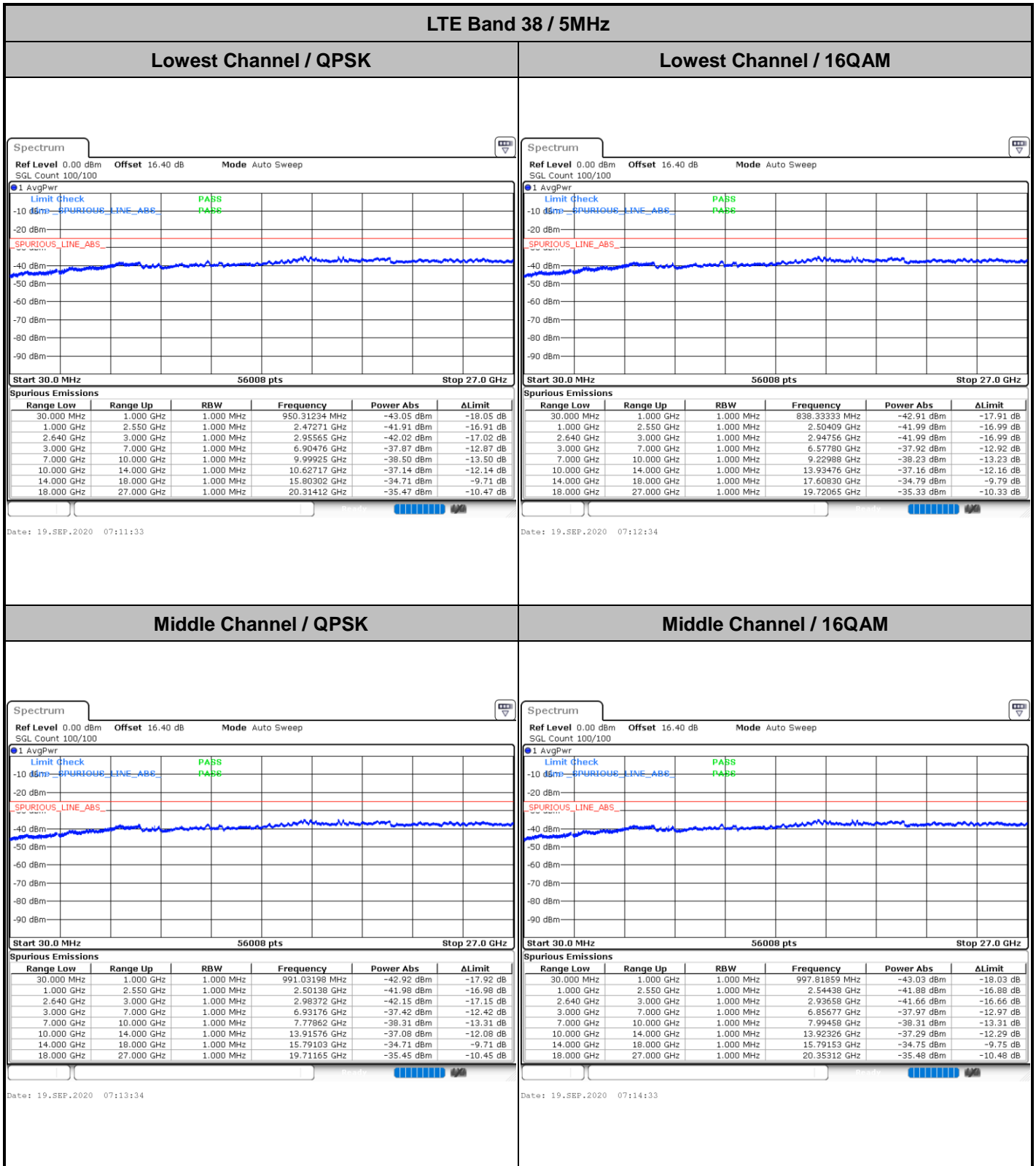
Highest Band Edge / Full RB



Date: 19\_SEP.2020 04:41:09



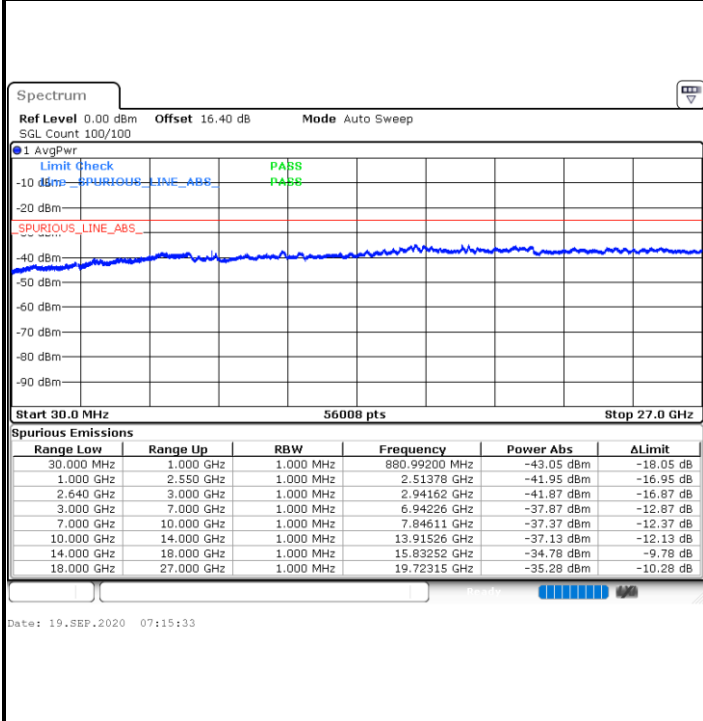
# Conducted Spurious Emission



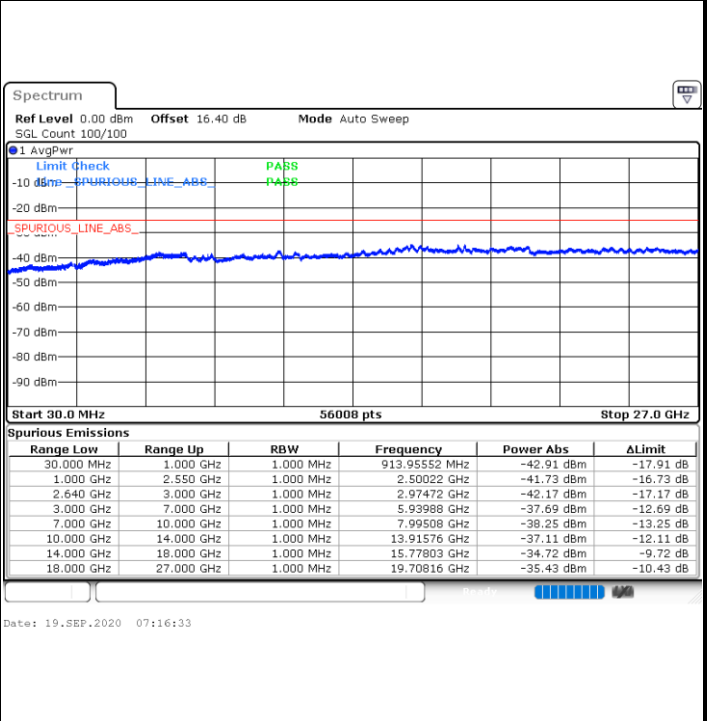


LTE Band 38 / 5MHz

Highest Channel / QPSK

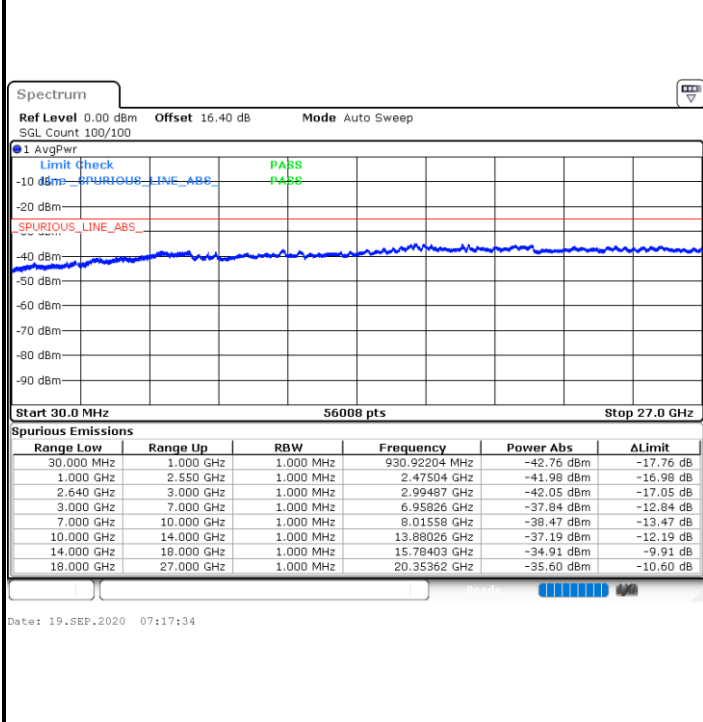


Highest Channel / 16QAM

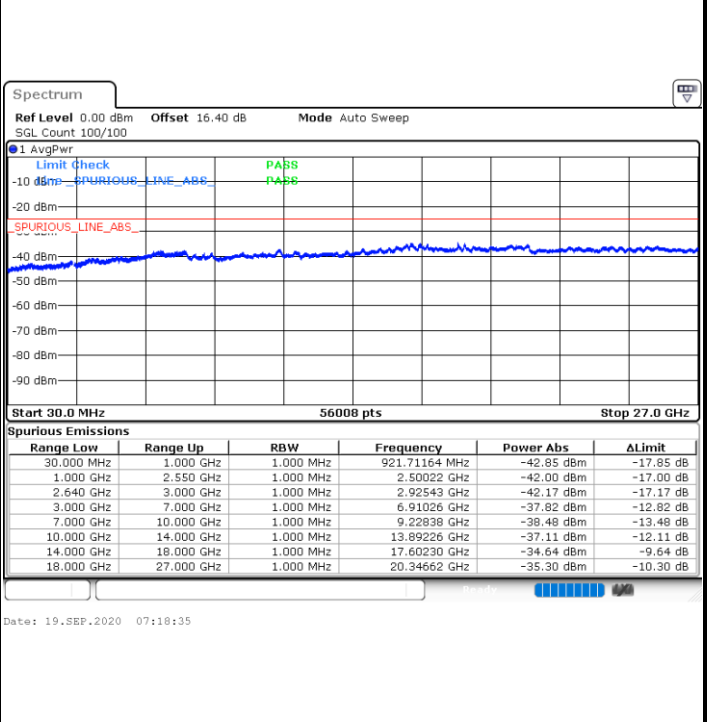


LTE Band 38 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

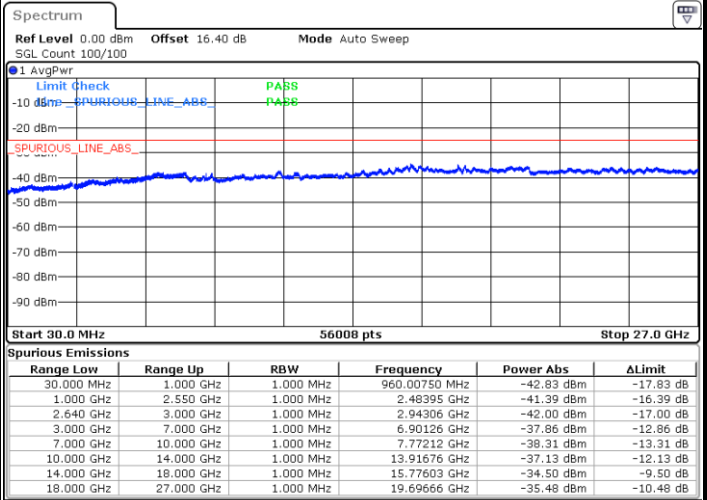
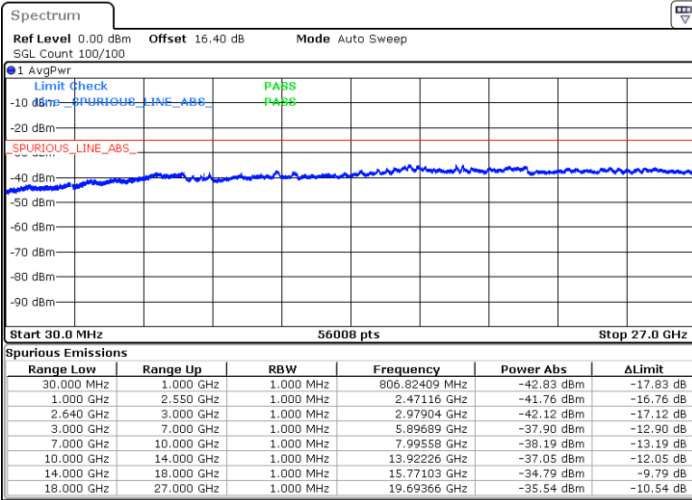




LTE Band 38 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

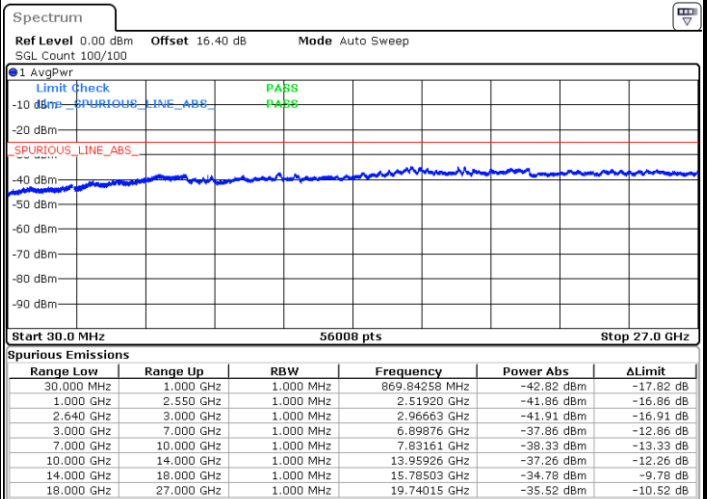
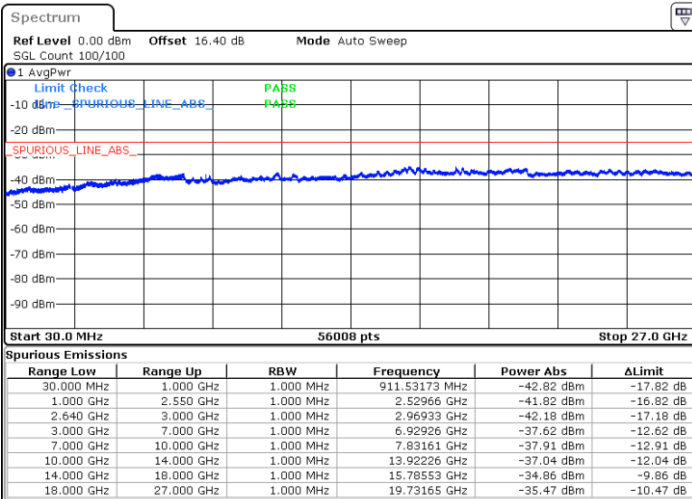


Date: 19\_SEP.2020 07:19:35

Date: 19\_SEP.2020 07:20:34

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19\_SEP.2020 07:21:34

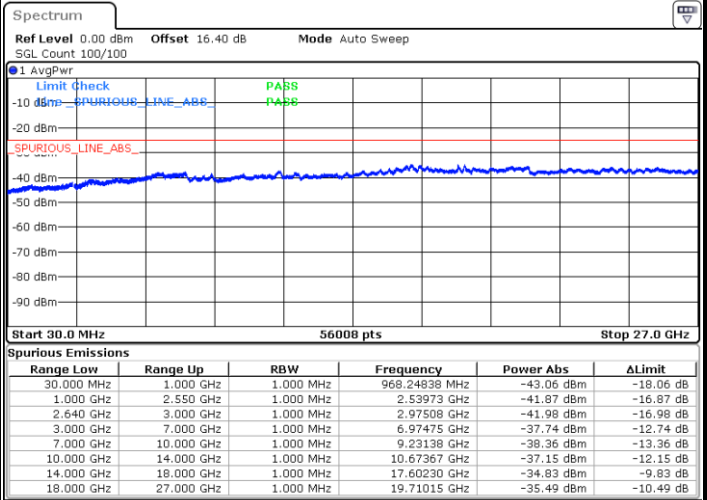
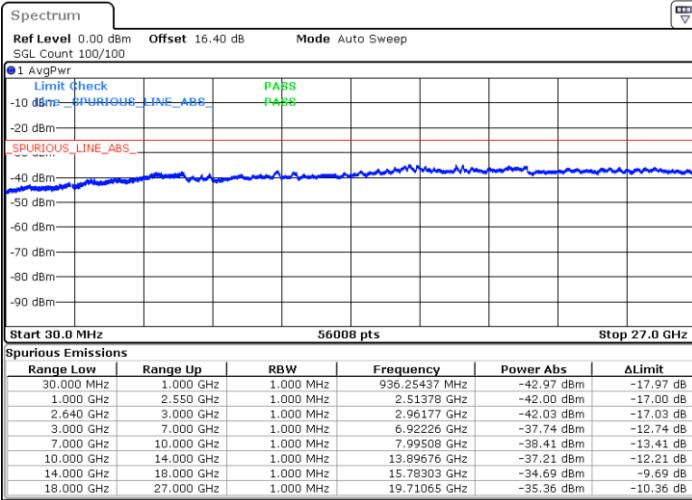
Date: 19\_SEP.2020 07:22:35



LTE Band 38 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

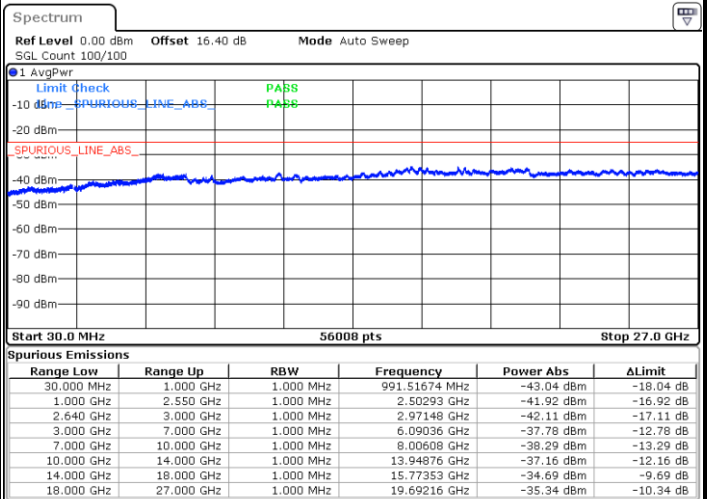
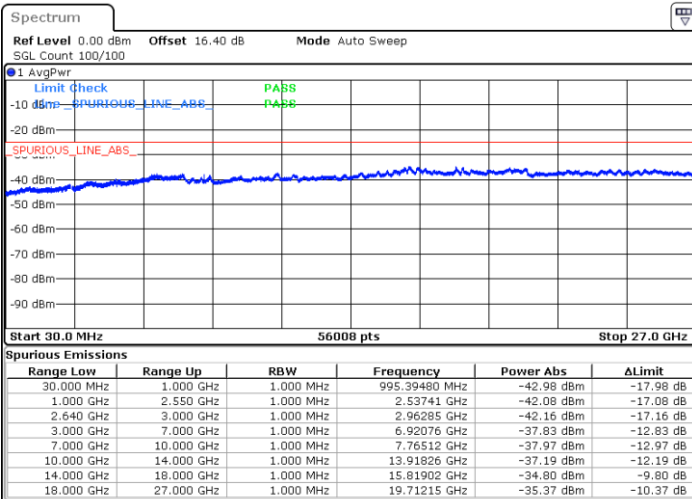


Date: 19\_SEP.2020 07:23:36

Date: 19\_SEP.2020 07:33:45

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 19\_SEP.2020 07:34:45

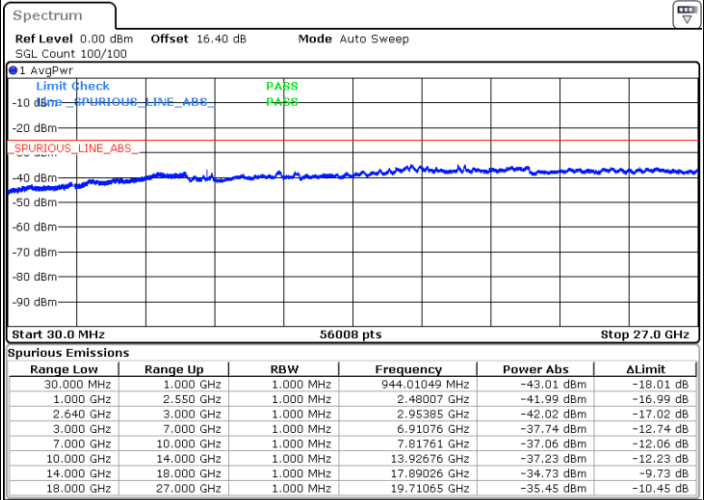
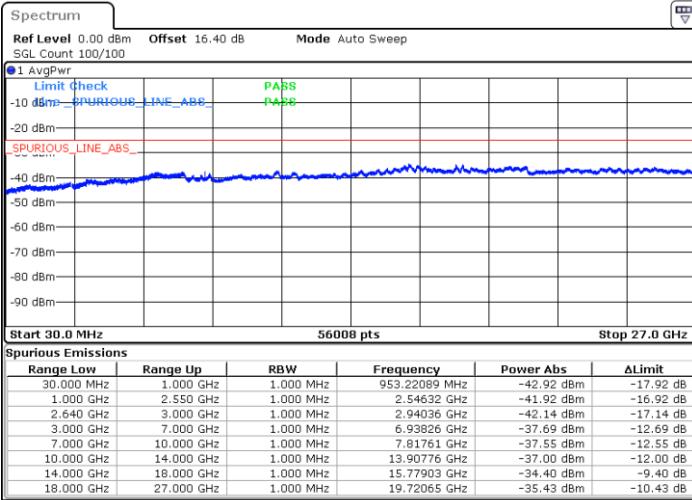
Date: 19\_SEP.2020 07:35:45



LTE Band 38 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



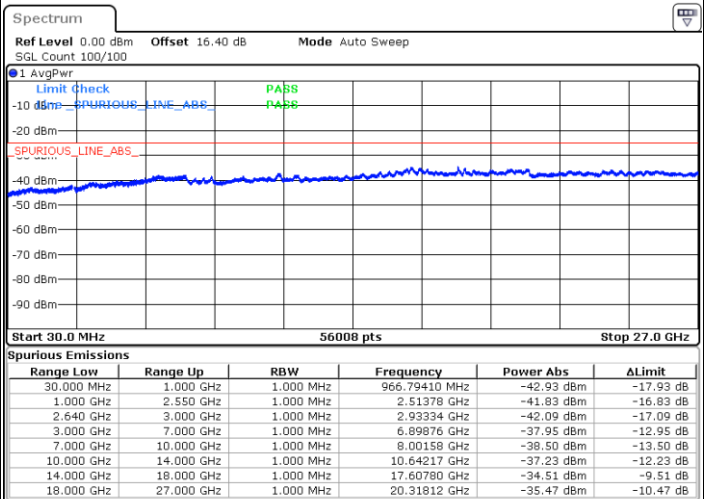
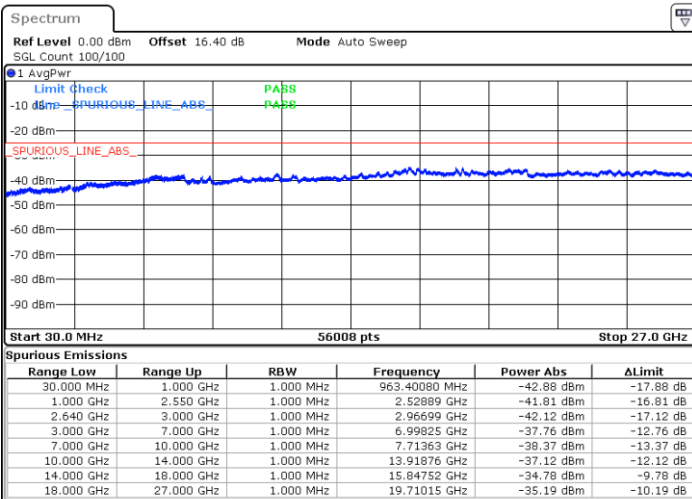
Date: 19\_SEP.2020 07:37:15

Date: 19\_SEP.2020 07:38:16

LTE Band 38 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 19\_SEP.2020 07:39:17

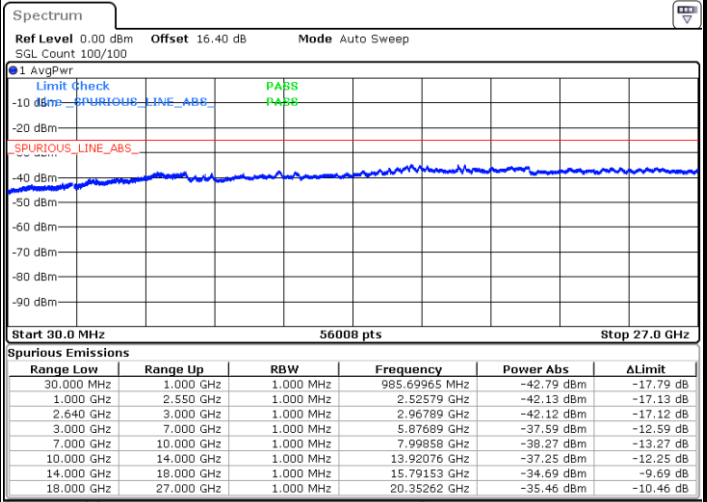
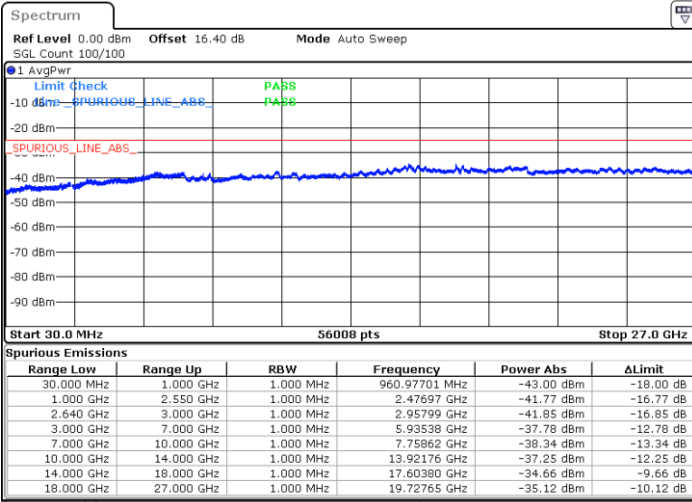
Date: 19\_SEP.2020 07:40:17



LTE Band 38 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

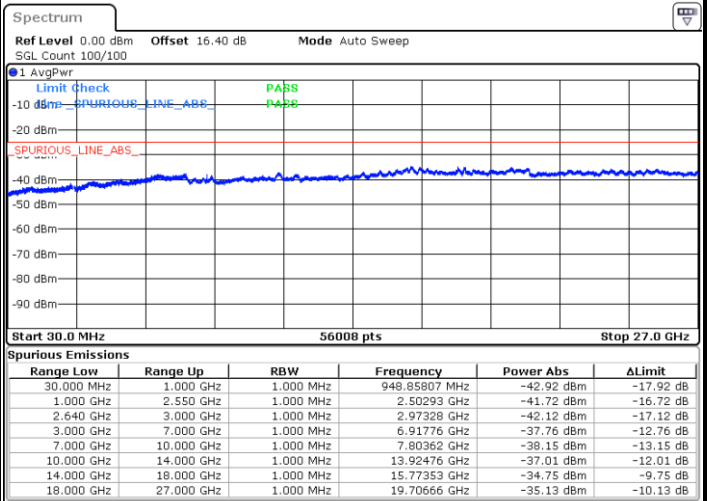
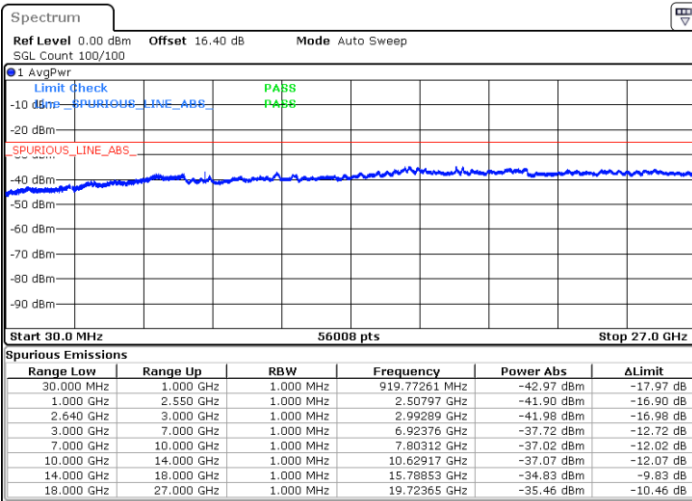


Date: 19.SEP.2020 07:41:17

Date: 19.SEP.2020 07:42:16

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.SEP.2020 07:43:16

Date: 19.SEP.2020 07:44:17



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	0.0047	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0047	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0047	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





# LTE Band 41

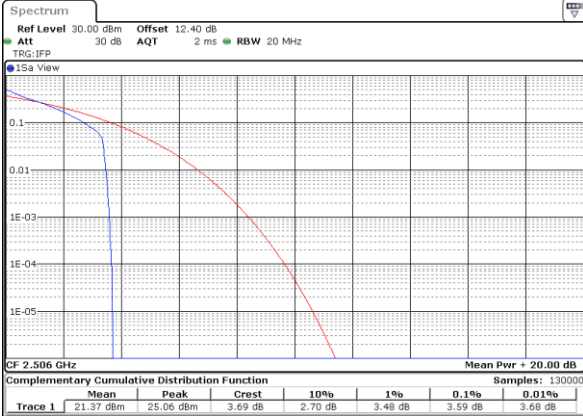
## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.52	5.10	5.86	<b>PASS</b>
Middle CH	3.68	4.55	5.22	5.88	
Highest CH	3.16	4.46	4.58	5.83	



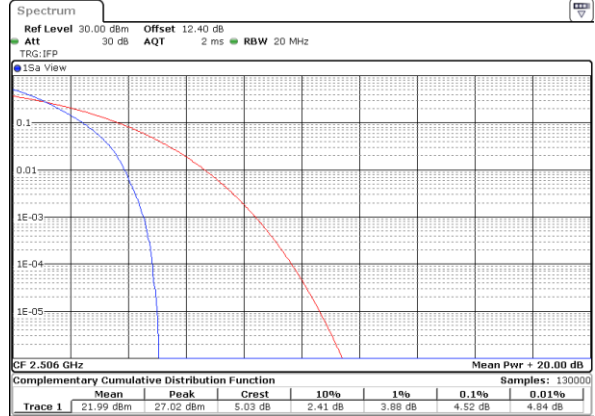
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



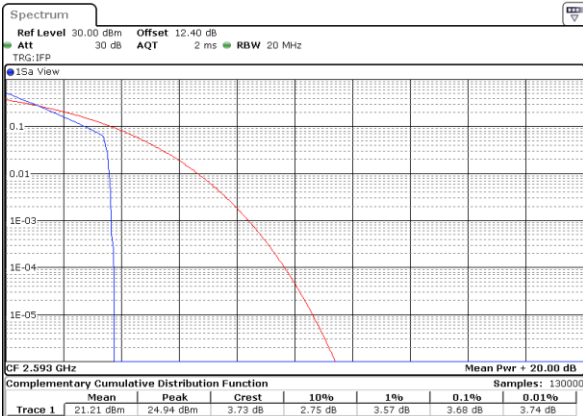
Date: 22\_SEP.2020 18:41:52

Lowest Channel / Full RB



Date: 22\_SEP.2020 18:42:10

Middle Channel / 1RB



Date: 22\_SEP.2020 18:42:30

Middle Channel / Full RB



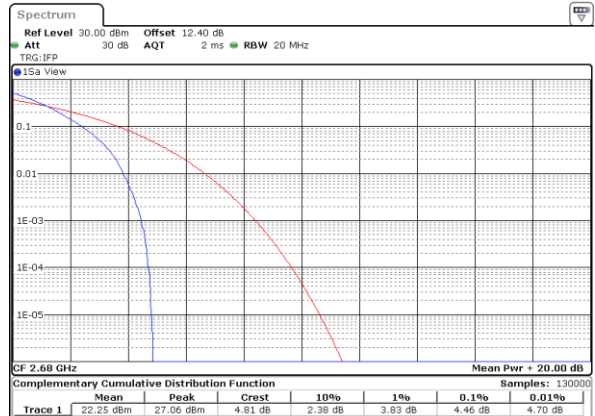
Date: 22\_SEP.2020 18:42:47

Highest Channel / 1RB



Date: 22\_SEP.2020 18:43:07

Highest Channel / Full RB

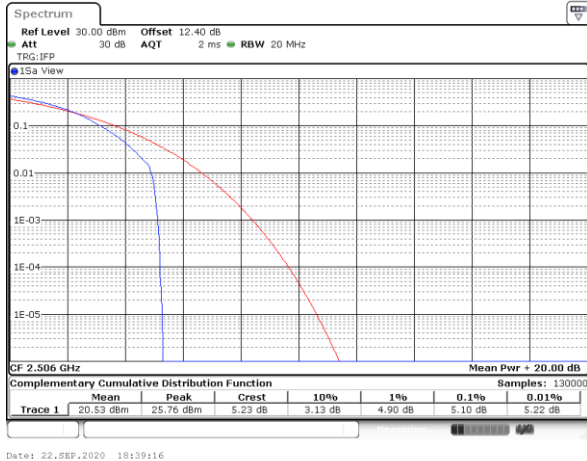


Date: 22\_SEP.2020 18:43:25



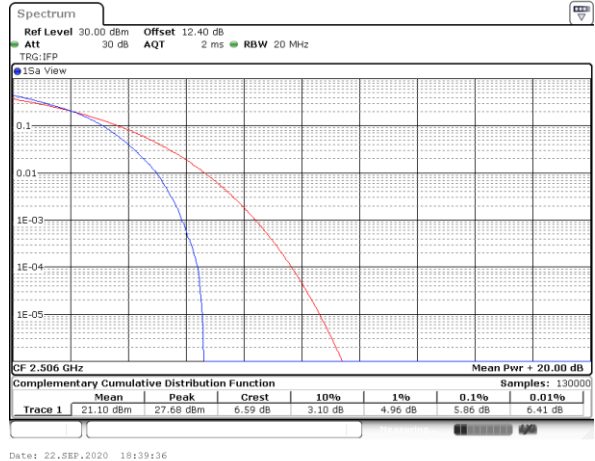
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



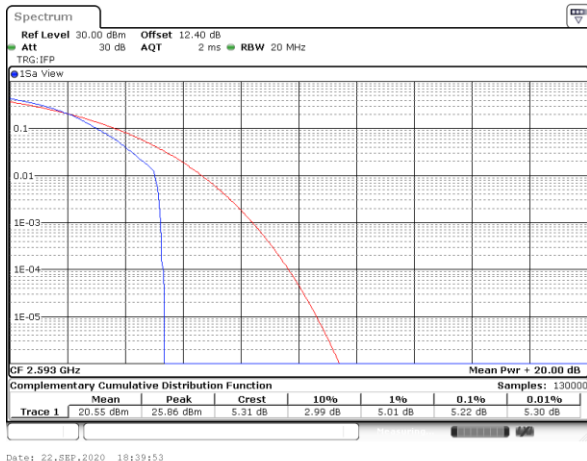
Date: 22\_SEP.2020 18:39:16

Lowest Channel / Full RB



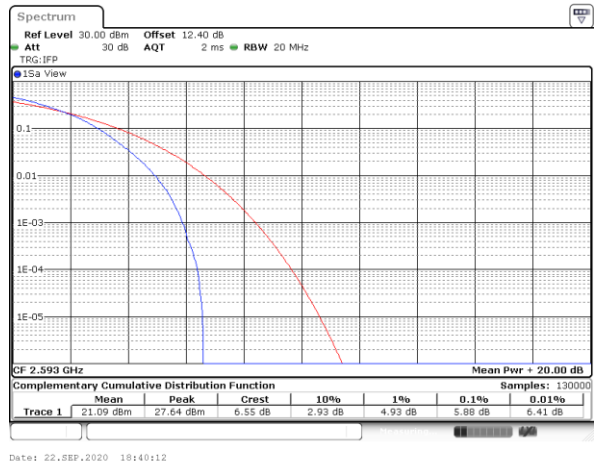
Date: 22\_SEP.2020 18:39:36

Middle Channel / 1RB



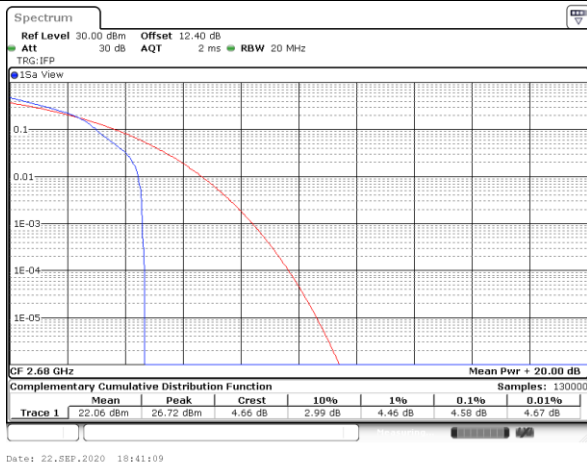
Date: 22\_SEP.2020 18:39:53

Middle Channel / Full RB



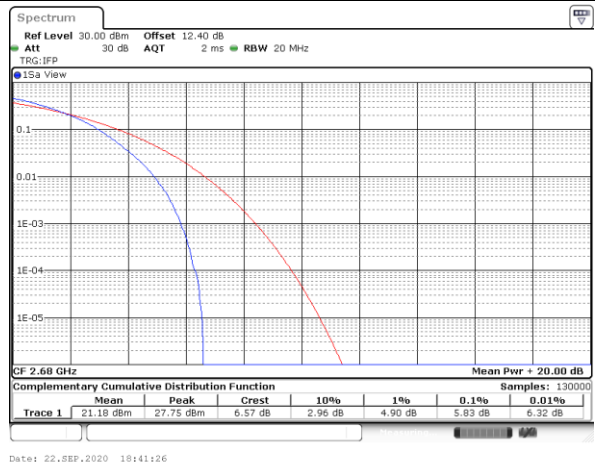
Date: 22\_SEP.2020 18:40:12

Highest Channel / 1RB



Date: 22\_SEP.2020 18:41:09

Highest Channel / Full RB



Date: 22\_SEP.2020 18:41:26



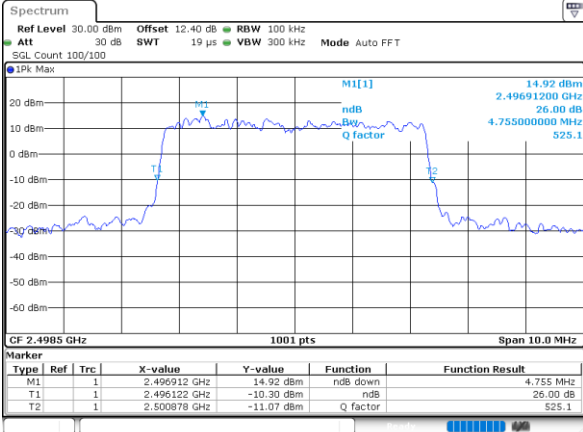
**26dB Bandwidth**

Mode	LTE Band 41 : 26dB BW(MHz)											
	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	-	-	-	-	4.76	4.78	9.59	9.65	14.18	14.18	18.62	18.78
Middle CH	-	-	-	-	4.93	4.79	9.67	9.75	14.45	14.39	18.90	18.78
Highest CH	-	-	-	-	4.84	4.83	9.69	9.73	14.18	14.42	18.66	18.66



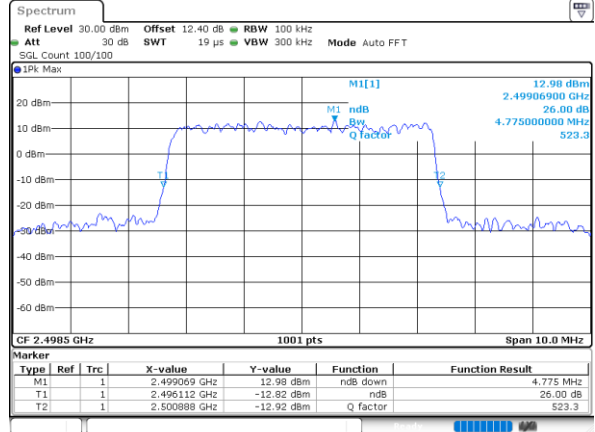
LTE Band 41

Lowest Channel / 5MHz / QPSK



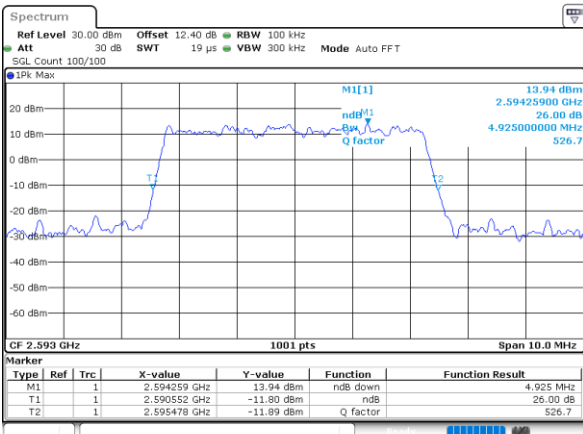
Date: 19\_SEP.2020 07:46:35

Lowest Channel / 5MHz / 16QAM



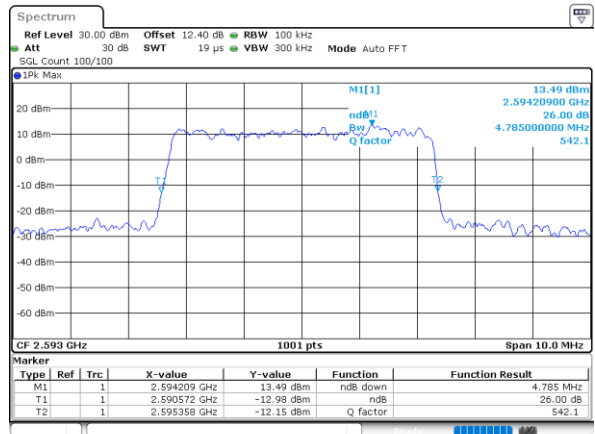
Date: 19\_SEP.2020 07:46:47

Middle Channel / 5MHz / QPSK



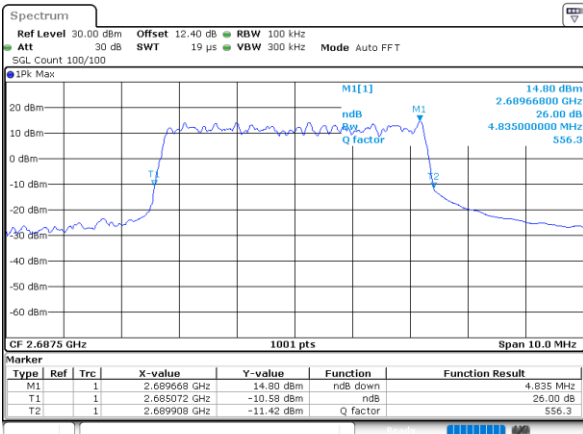
Date: 19\_SEP.2020 07:47:21

Middle Channel / 5MHz / 16QAM



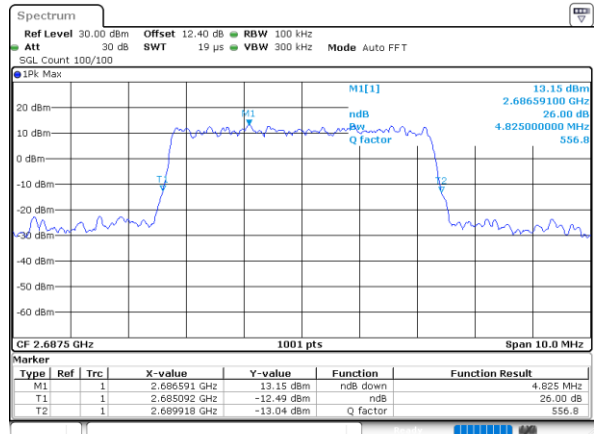
Date: 19\_SEP.2020 07:47:32

Highest Channel / 5MHz / QPSK



Date: 19\_SEP.2020 07:48:08

Highest Channel / 5MHz / 16QAM

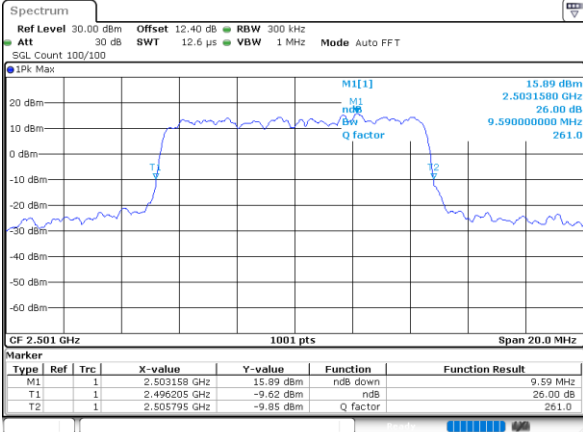


Date: 19\_SEP.2020 07:48:19



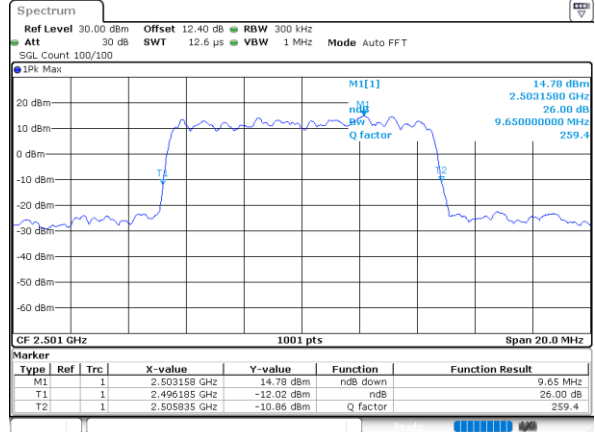
LTE Band 41

Lowest Channel / 10MHz / QPSK



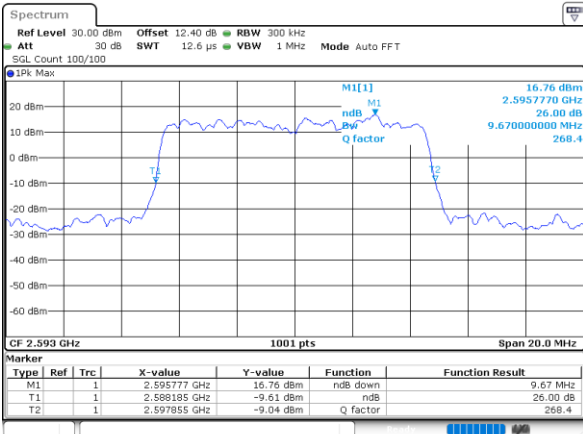
Date: 19\_SEP.2020 07:48:56

Lowest Channel / 10MHz / 16QAM



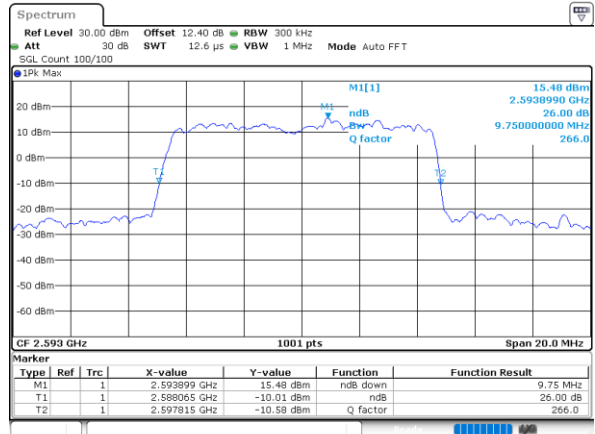
Date: 19\_SEP.2020 07:49:08

Middle Channel / 10MHz / QPSK



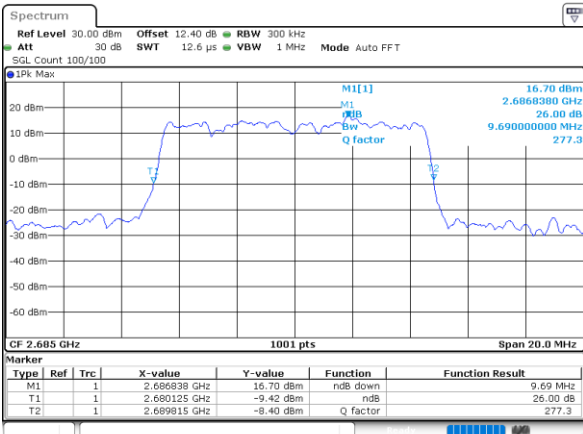
Date: 19\_SEP.2020 07:49:42

Middle Channel / 10MHz / 16QAM



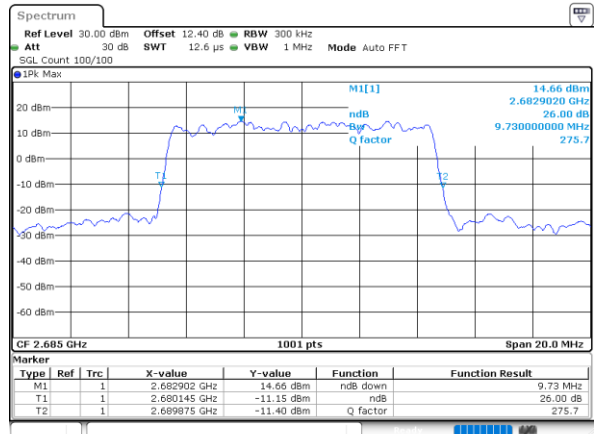
Date: 19\_SEP.2020 07:49:53

Highest Channel / 10MHz / QPSK



Date: 19\_SEP.2020 07:50:28

Highest Channel / 10MHz / 16QAM

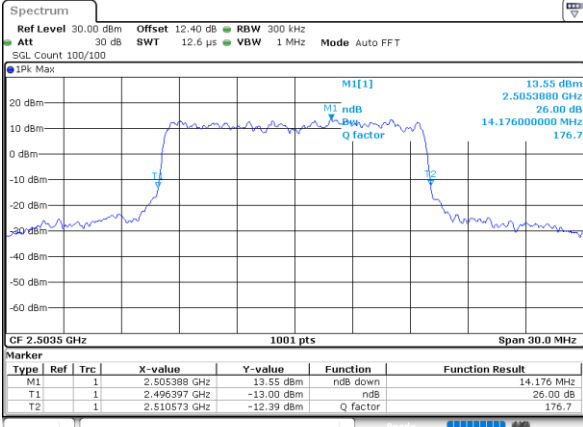


Date: 19\_SEP.2020 07:50:40



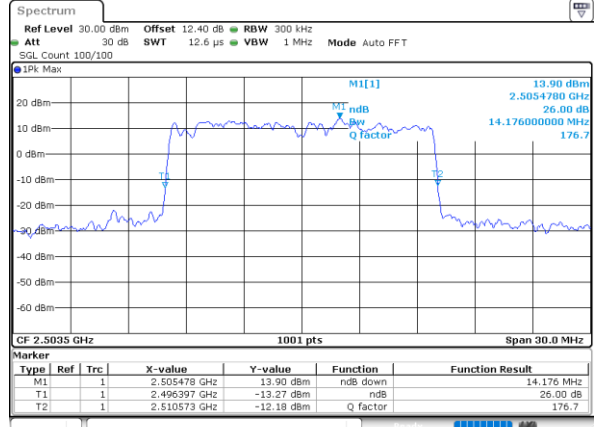
LTE Band 41

Lowest Channel / 15MHz / QPSK



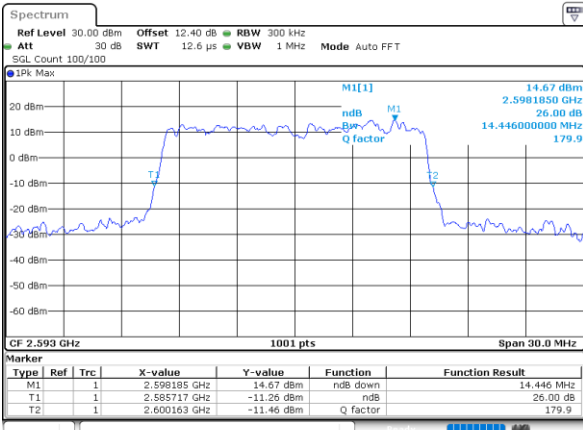
Date: 19\_SEP.2020 07:51:17

Lowest Channel / 15MHz / 16QAM



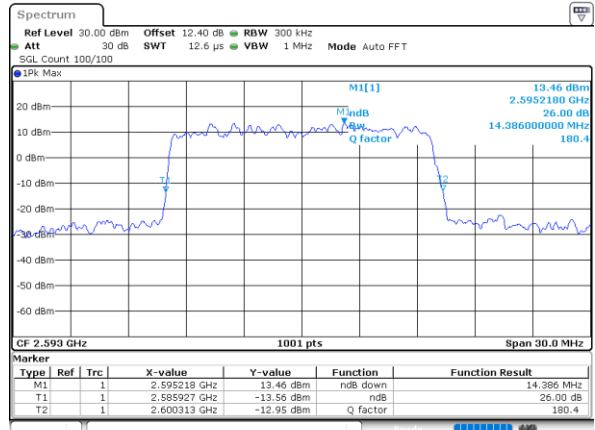
Date: 19\_SEP.2020 07:51:28

Middle Channel / 15MHz / QPSK



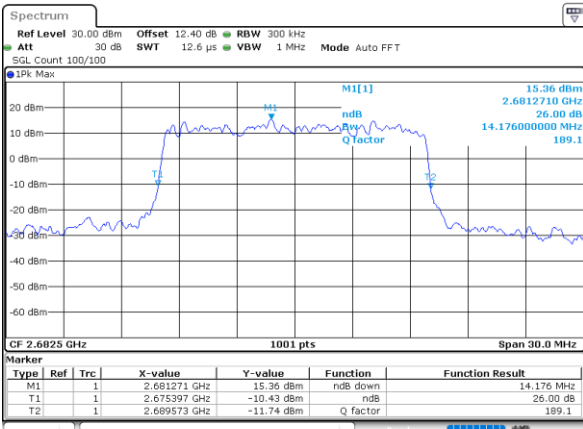
Date: 19\_SEP.2020 07:52:03

Middle Channel / 15MHz / 16QAM



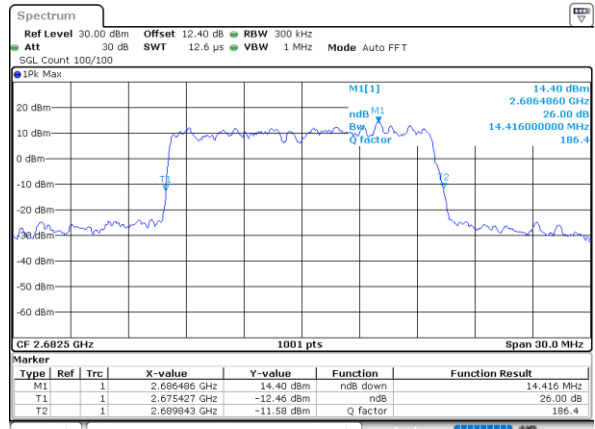
Date: 19\_SEP.2020 07:52:14

Highest Channel / 15MHz / QPSK



Date: 19\_SEP.2020 07:56:15

Highest Channel / 15MHz / 16QAM

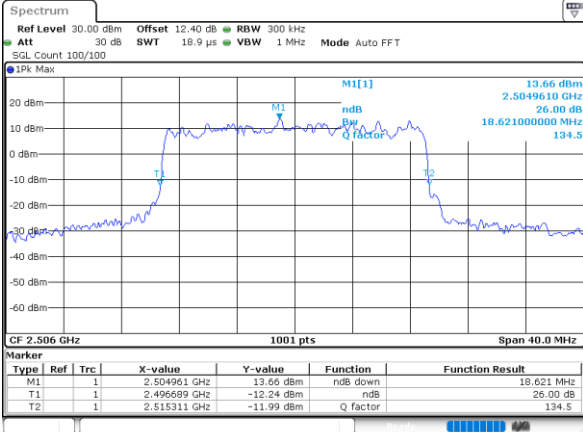


Date: 19\_SEP.2020 07:56:27



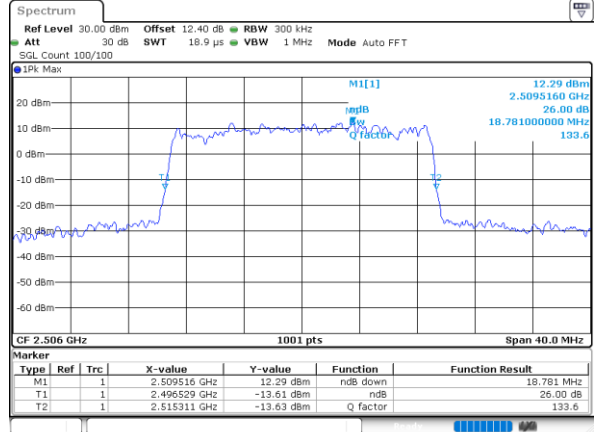
LTE Band 41

Lowest Channel / 20MHz / QPSK



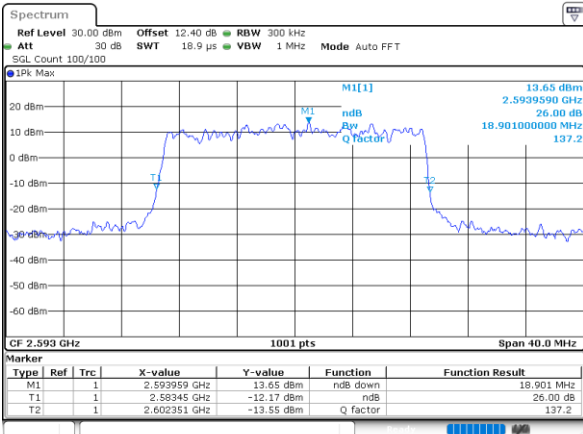
Date: 19\_SEP.2020 07:57:03

Lowest Channel / 20MHz / 16QAM



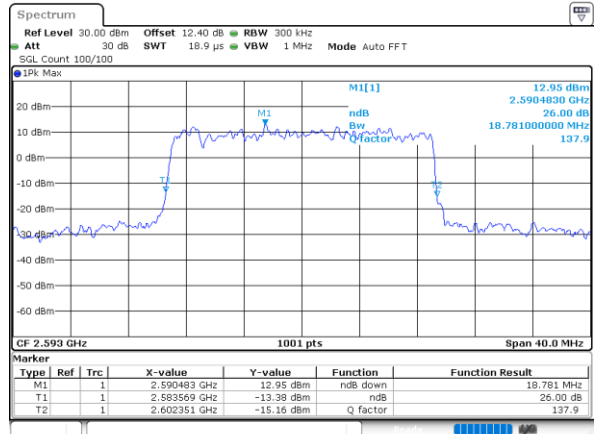
Date: 19\_SEP.2020 07:57:15

Middle Channel / 20MHz / QPSK



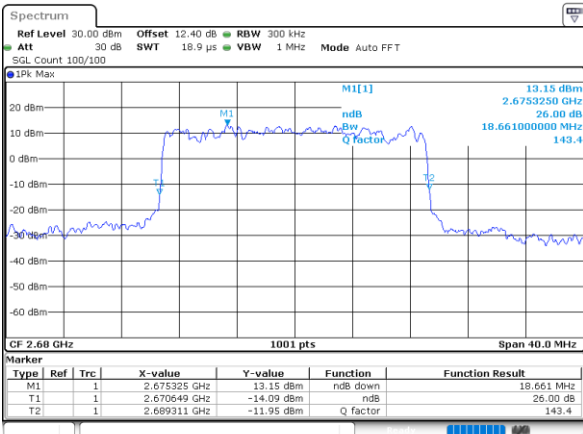
Date: 19\_SEP.2020 07:57:49

Middle Channel / 20MHz / 16QAM



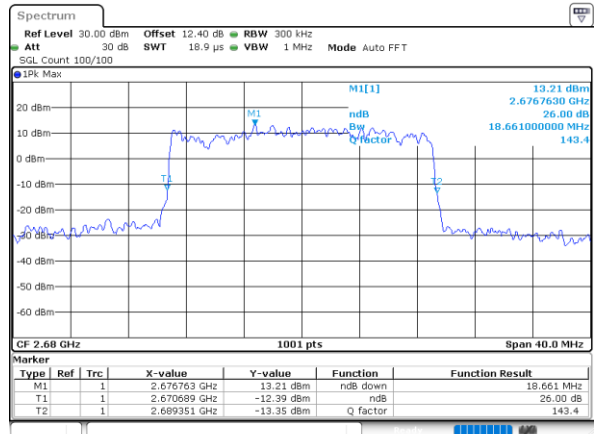
Date: 19\_SEP.2020 07:58:00

Highest Channel / 20MHz / QPSK



Date: 19\_SEP.2020 07:58:36

Highest Channel / 20MHz / 16QAM



Date: 19\_SEP.2020 07:58:47





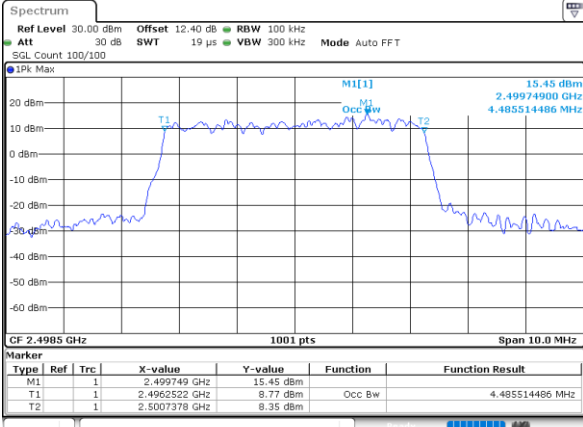
### Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.48	9.03	9.01	13.43	13.43	17.90	17.82
Middle CH	-	-	-	-	4.49	4.49	8.99	8.95	13.34	13.52	17.94	17.90
Highest CH	-	-	-	-	4.51	4.49	9.01	9.07	13.43	13.40	17.74	17.74



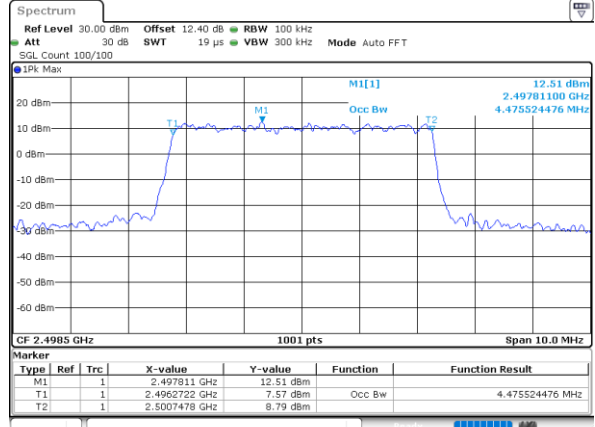
LTE Band 41

Lowest Channel / 5MHz / QPSK



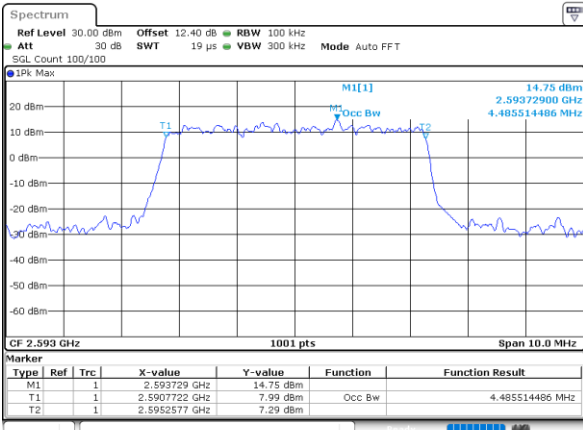
Date: 19\_SEP.2020 07:46:11

Lowest Channel / 5MHz / 16QAM



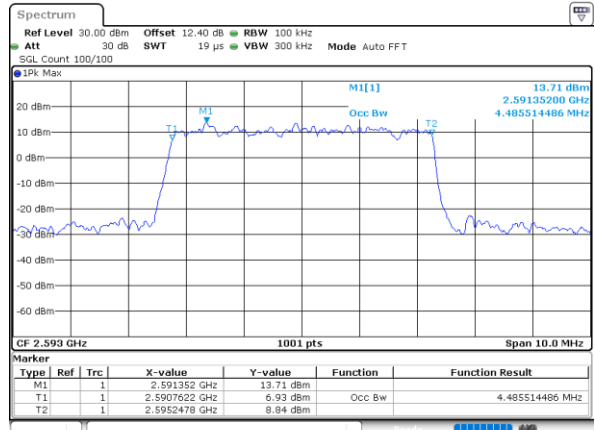
Date: 19\_SEP.2020 07:46:123

Middle Channel / 5MHz / QPSK



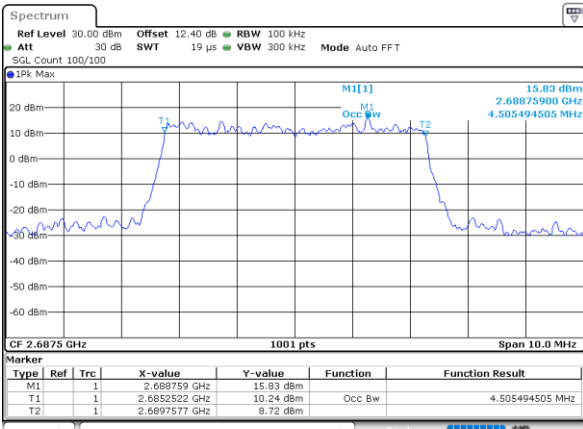
Date: 19\_SEP.2020 07:46:58

Middle Channel / 5MHz / 16QAM



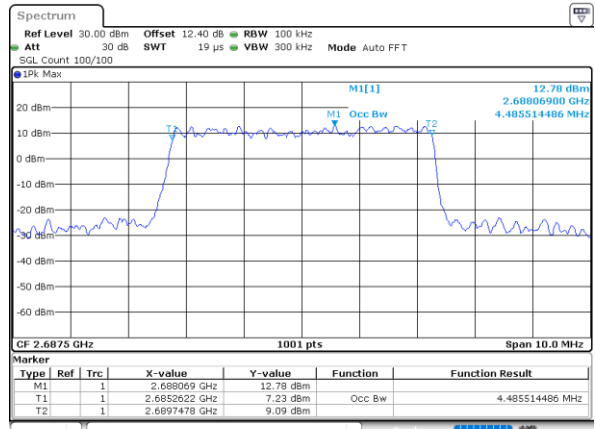
Date: 19\_SEP.2020 07:47:110

Highest Channel / 5MHz / QPSK



Date: 19\_SEP.2020 07:47:44

Highest Channel / 5MHz / 16QAM

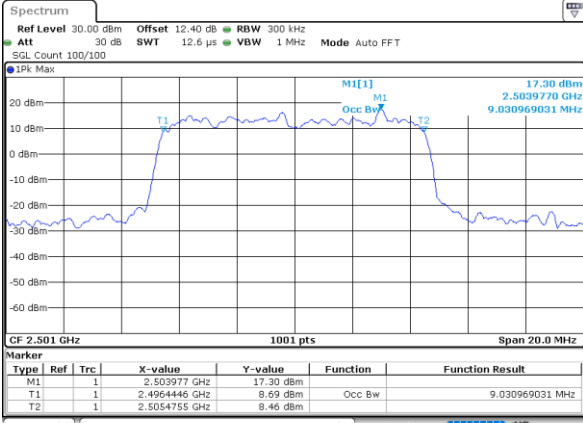


Date: 19\_SEP.2020 07:47:56



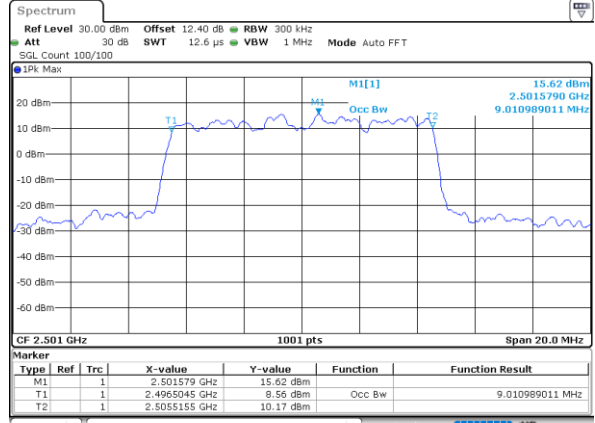
LTE Band 41

Lowest Channel / 10MHz / QPSK



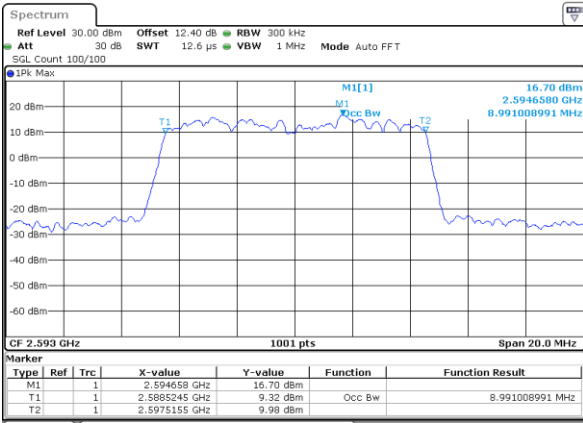
Date: 19\_SEP.2020 07:48:32

Lowest Channel / 10MHz / 16QAM



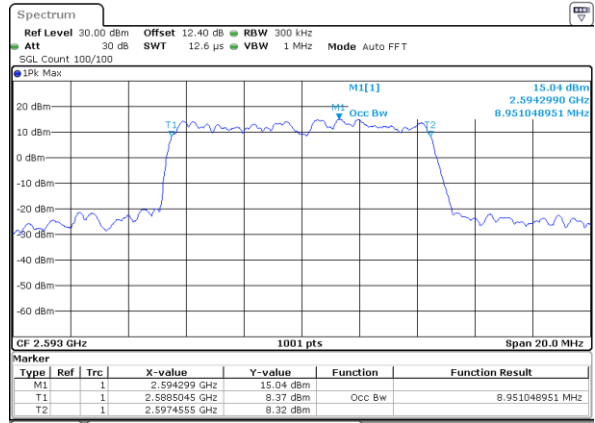
Date: 19\_SEP.2020 07:48:44

Middle Channel / 10MHz / QPSK



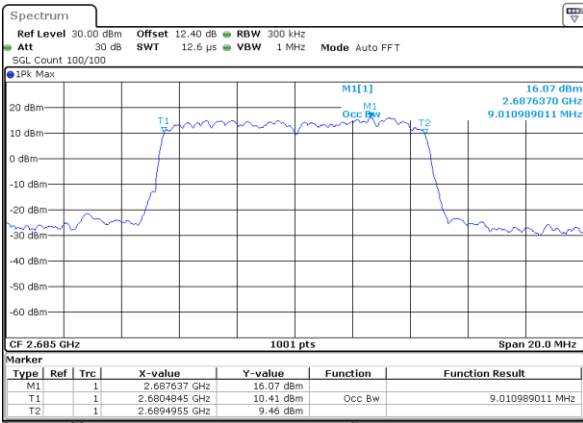
Date: 19\_SEP.2020 07:49:19

Middle Channel / 10MHz / 16QAM



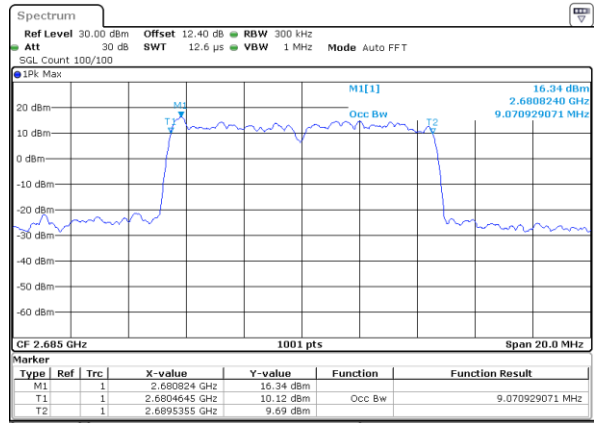
Date: 19\_SEP.2020 07:49:30

Highest Channel / 10MHz / QPSK



Date: 19\_SEP.2020 07:50:05

Highest Channel / 10MHz / 16QAM

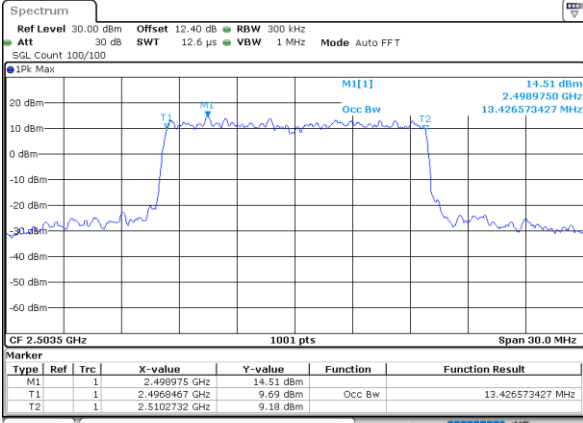


Date: 19\_SEP.2020 07:50:17



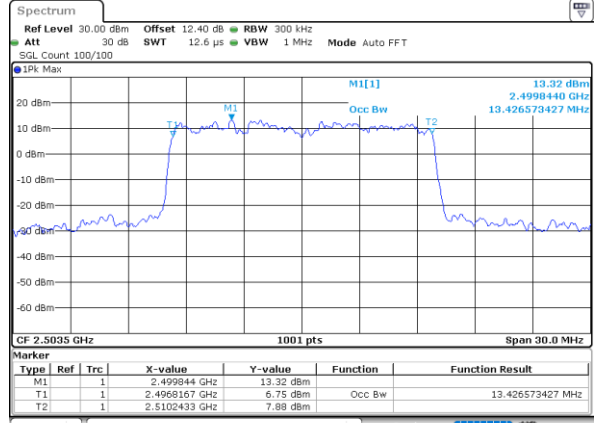
LTE Band 41

Lowest Channel / 15MHz / QPSK



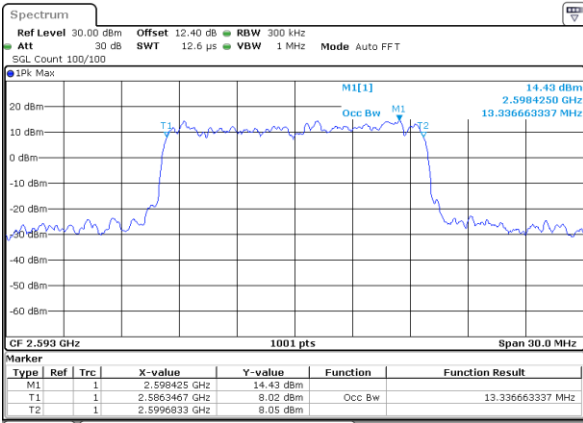
Date: 19\_SEP.2020 07:50:53

Lowest Channel / 15MHz / 16QAM



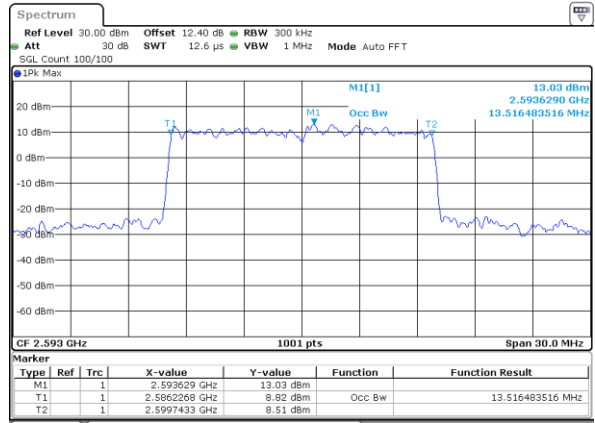
Date: 19\_SEP.2020 07:51:05

Middle Channel / 15MHz / QPSK



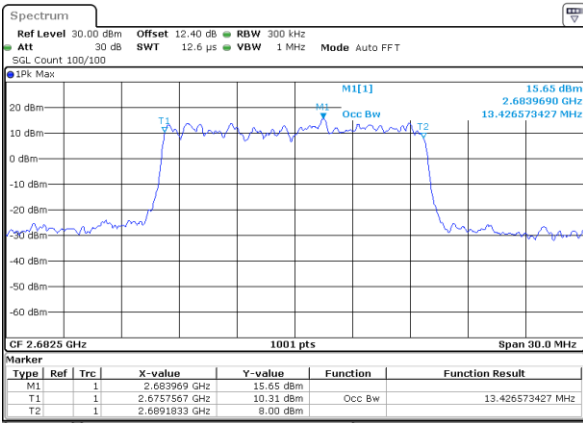
Date: 19\_SEP.2020 07:51:40

Middle Channel / 15MHz / 16QAM



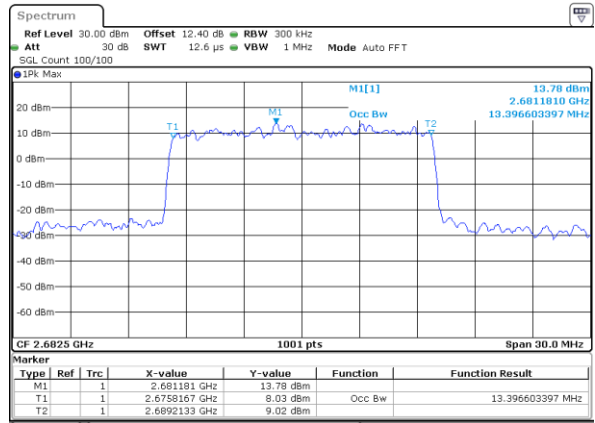
Date: 19\_SEP.2020 07:51:51

Highest Channel / 15MHz / QPSK



Date: 19\_SEP.2020 07:52:26

Highest Channel / 15MHz / 16QAM

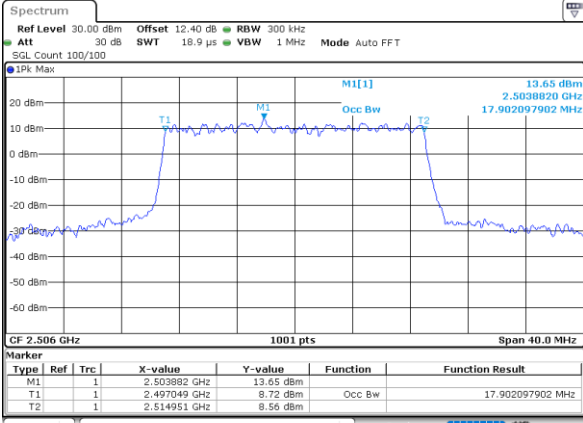


Date: 19\_SEP.2020 07:52:37

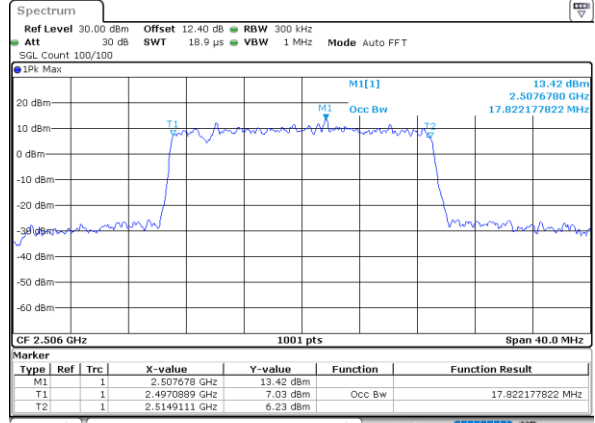


LTE Band 41

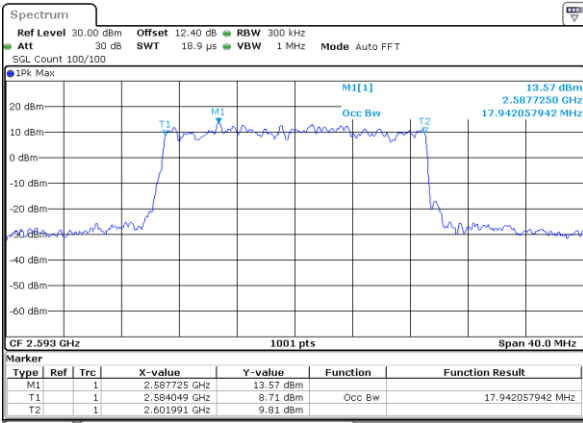
Lowest Channel / 20MHz / QPSK



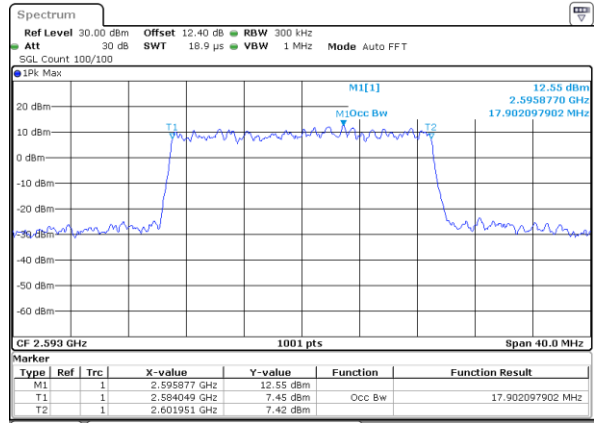
Lowest Channel / 20MHz / 16QAM



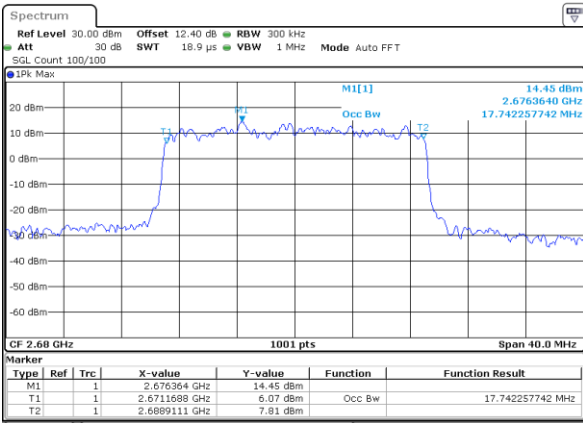
Middle Channel / 20MHz / QPSK



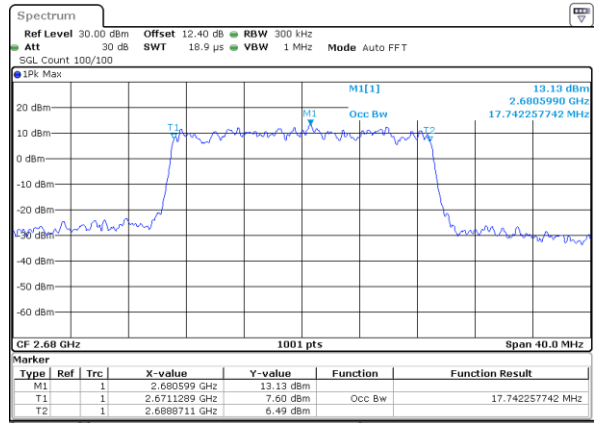
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

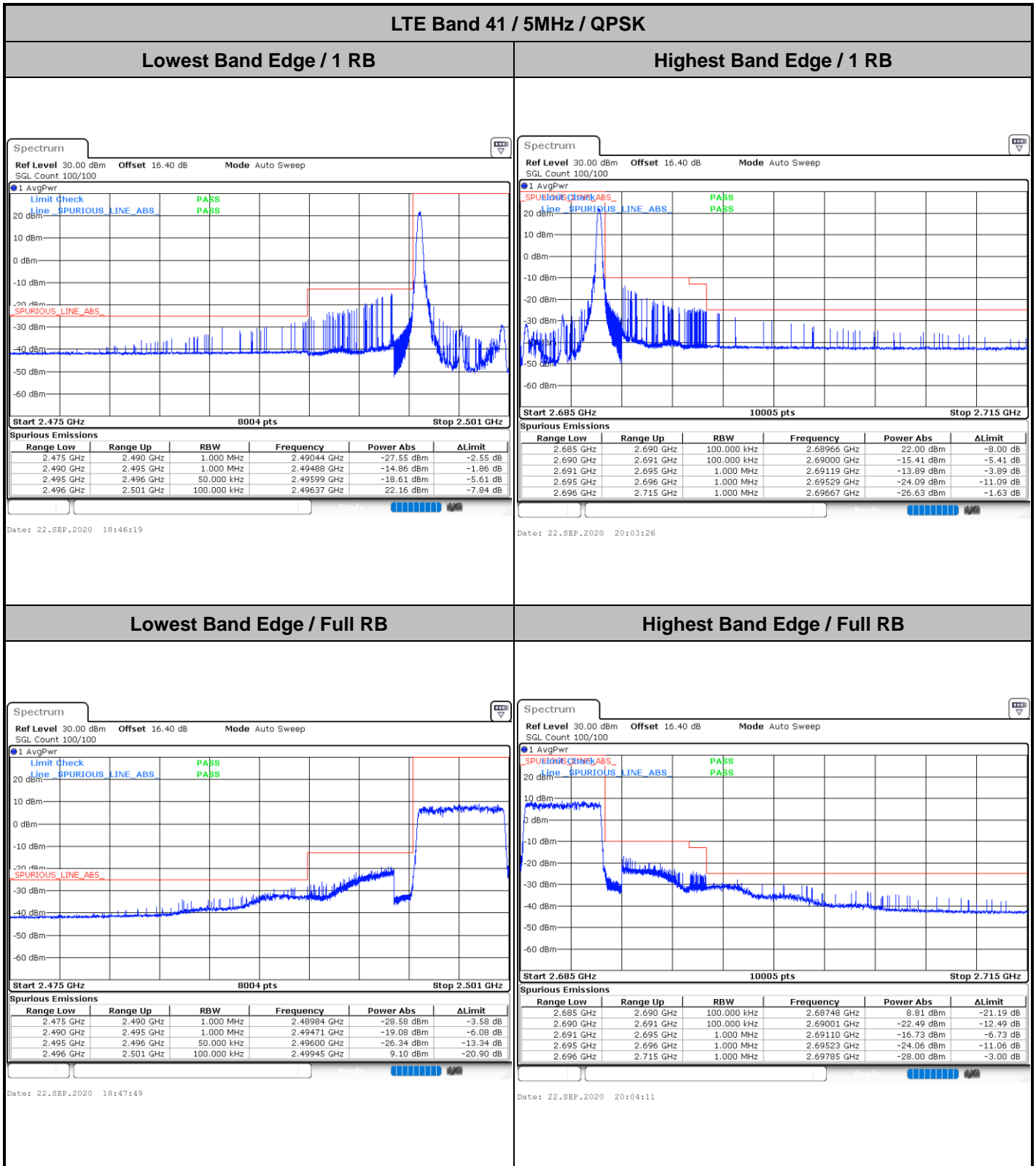


Highest Channel / 20MHz / 16QAM





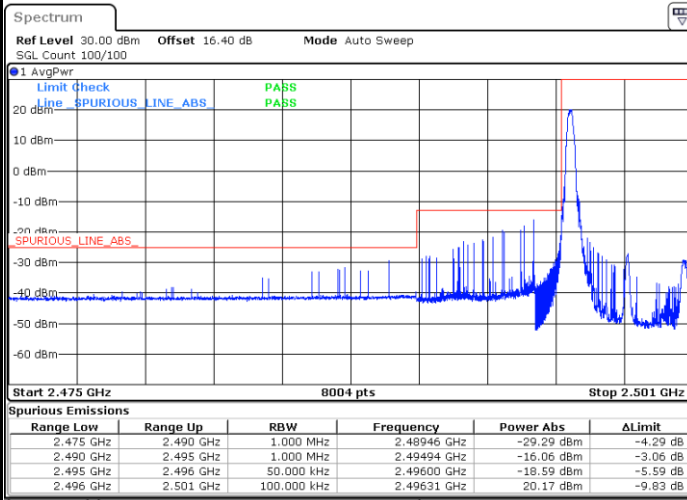
# Conducted Band Edge





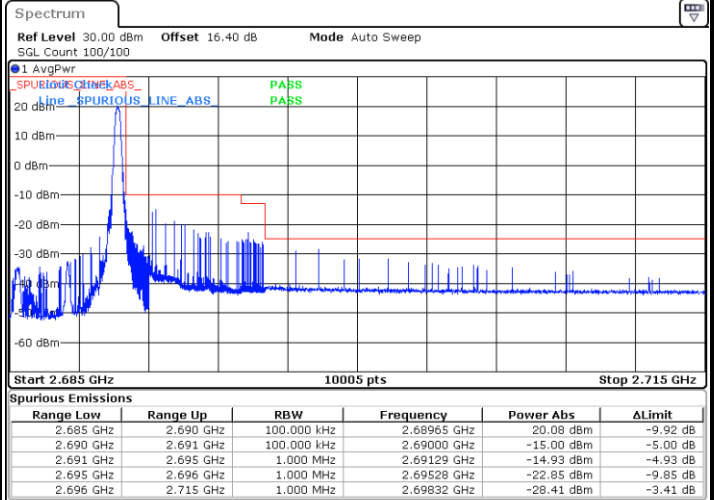
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



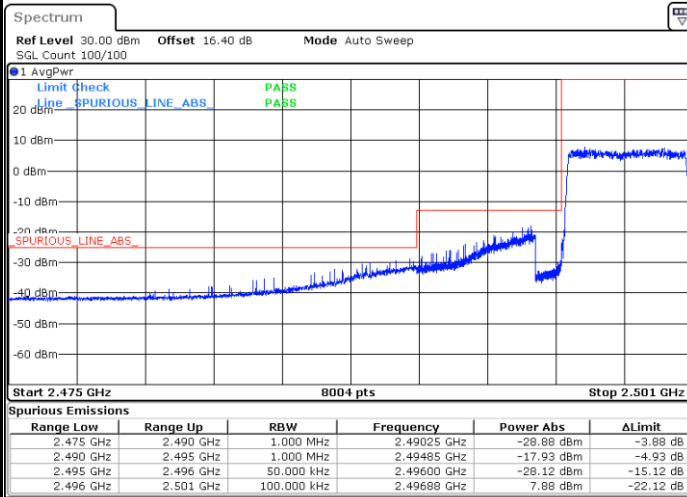
Date: 22.SEP.2020 20:00:38

Highest Band Edge / 1 RB



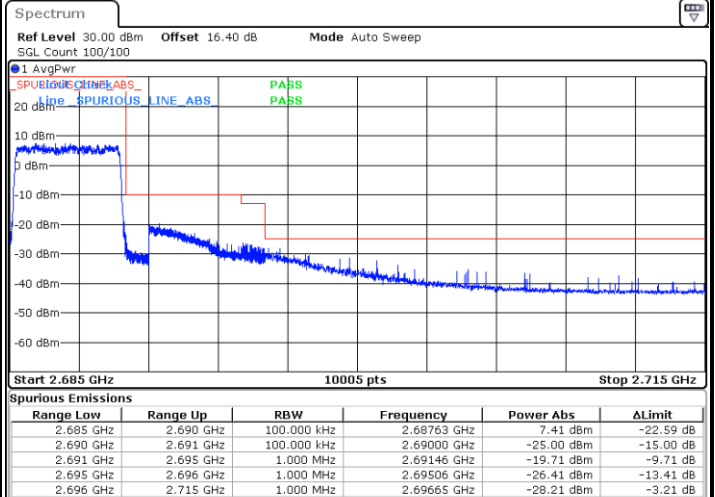
Date: 22.SEP.2020 18:50:03

Lowest Band Edge / Full RB



Date: 22.SEP.2020 18:48:34

Highest Band Edge / Full RB

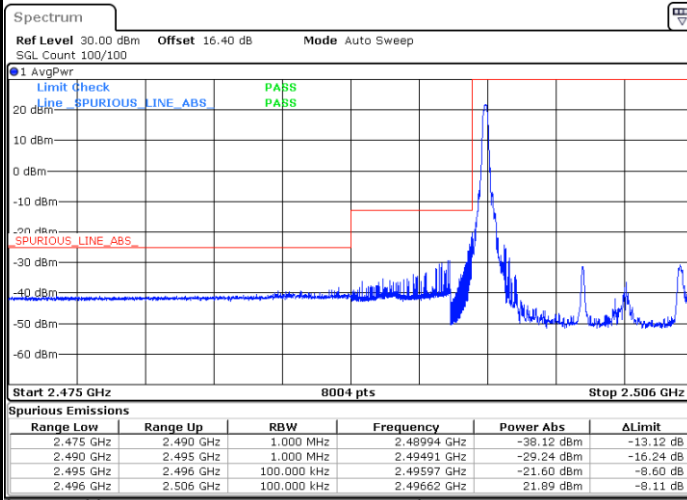


Date: 22.SEP.2020 18:51:33



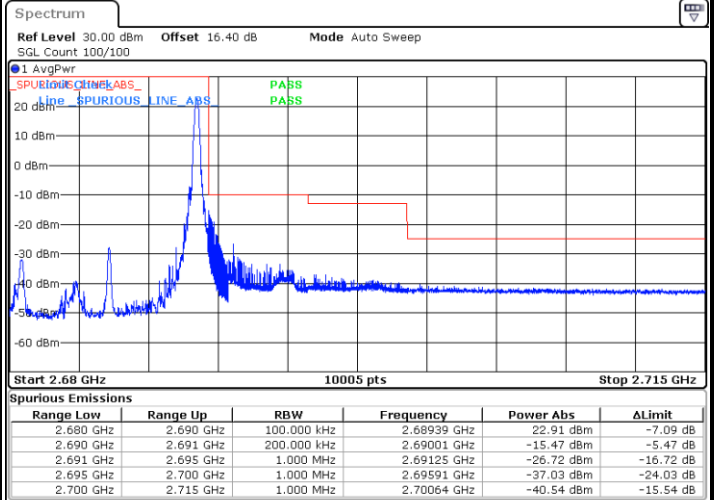
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



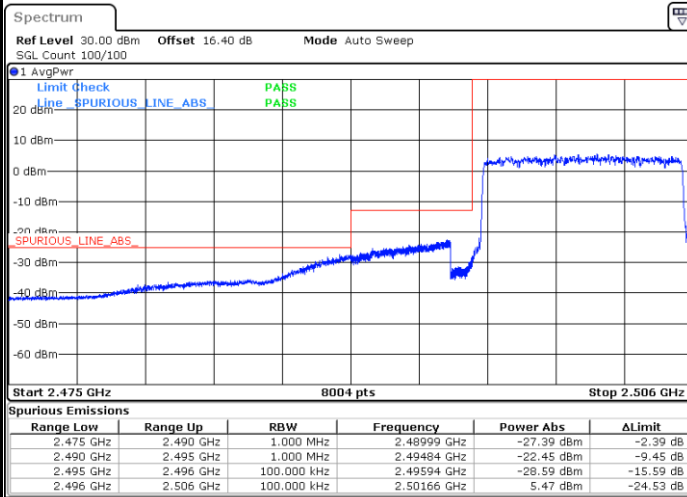
Date: 22.SEP.2020 18:52:19

Highest Band Edge / 1 RB



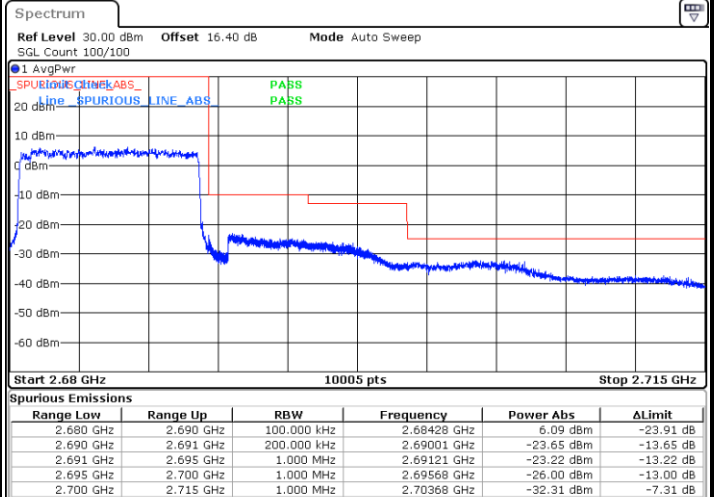
Date: 22.SEP.2020 18:59:34

Lowest Band Edge / Full RB



Date: 22.SEP.2020 18:58:05

Highest Band Edge / Full RB



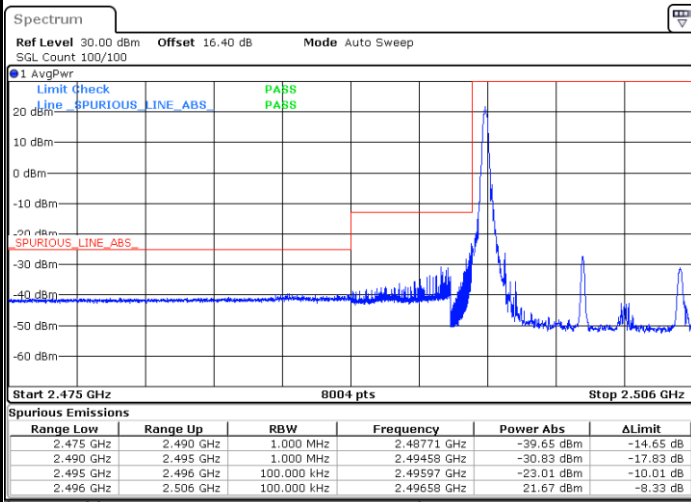
Date: 22.SEP.2020 19:01:04





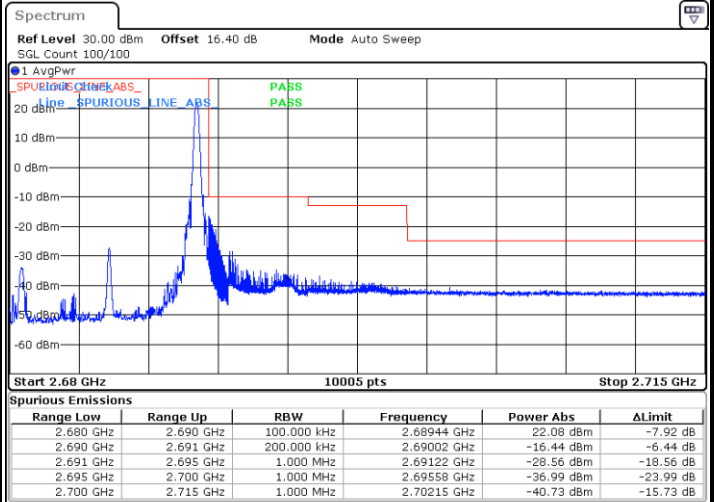
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



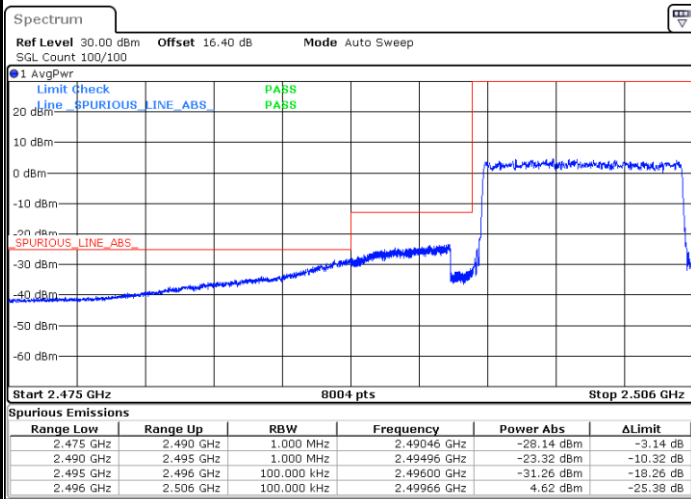
Date: 22.SEP.2020 18:57:20

Highest Band Edge / 1 RB



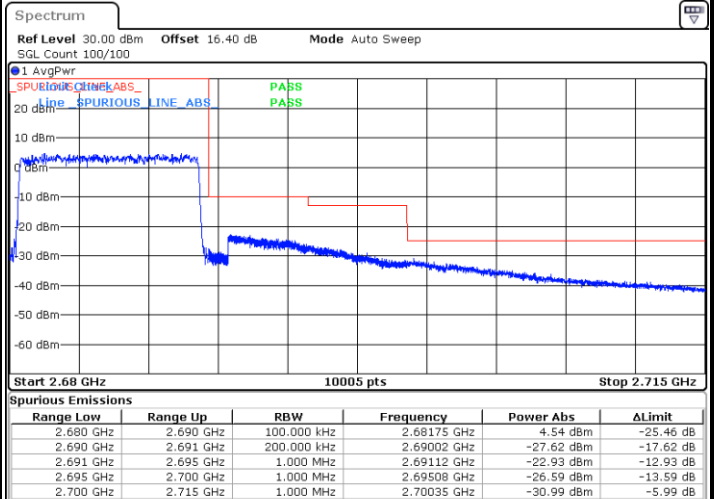
Date: 22.SEP.2020 19:00:19

Lowest Band Edge / Full RB



Date: 22.SEP.2020 18:58:50

Highest Band Edge / Full RB

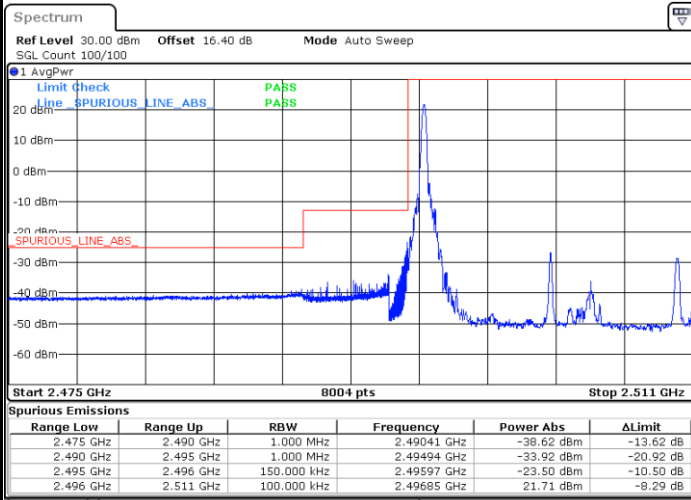


Date: 22.SEP.2020 19:01:49



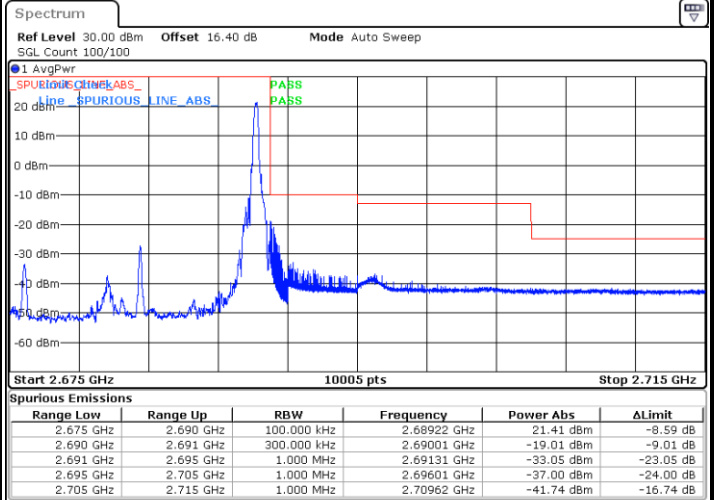
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



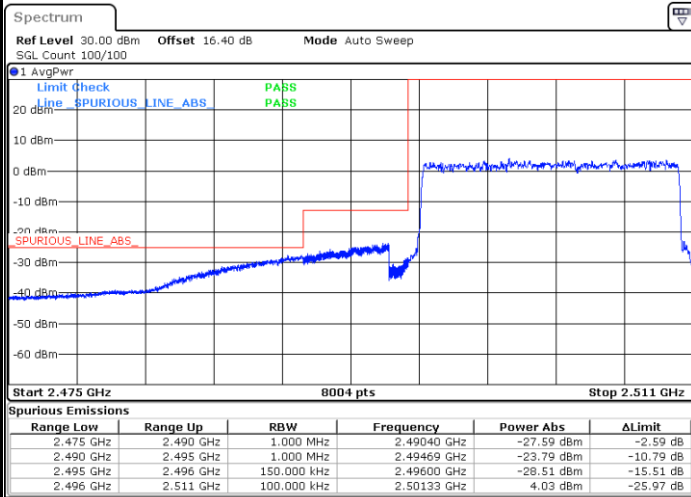
Date: 22.SEP.2020 19:02:35

Highest Band Edge / 1 RB



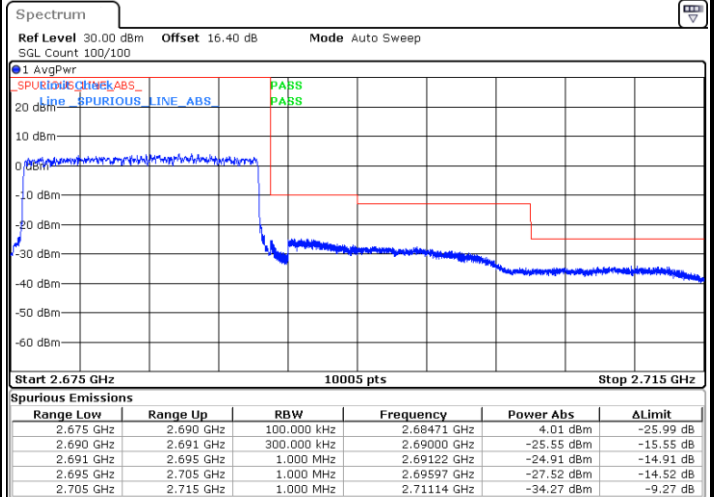
Date: 22.SEP.2020 19:08:52

Lowest Band Edge / Full RB



Date: 22.SEP.2020 19:04:16

Highest Band Edge / Full RB



Date: 22.SEP.2020 19:11:29