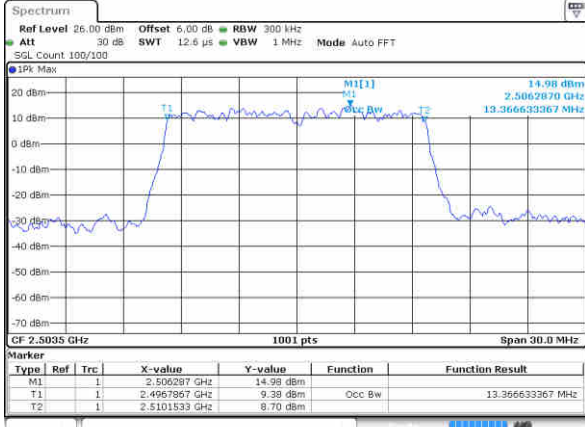




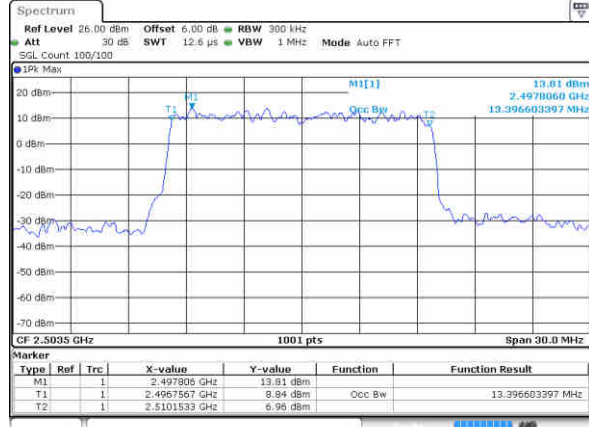
LTE Band 41

Lowest Channel / 15MHz / QPSK



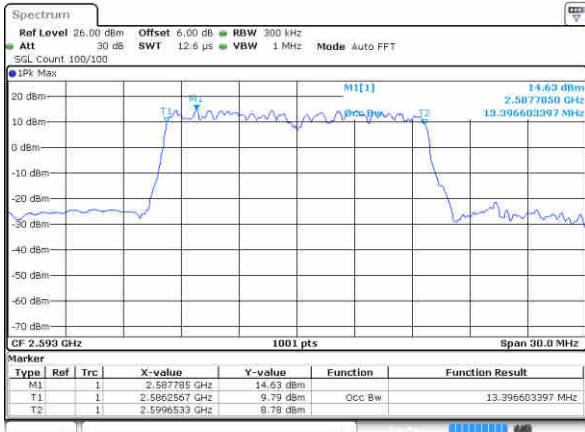
Date: 28 FEB 2020 21:23:09

Lowest Channel / 15MHz / 16QAM



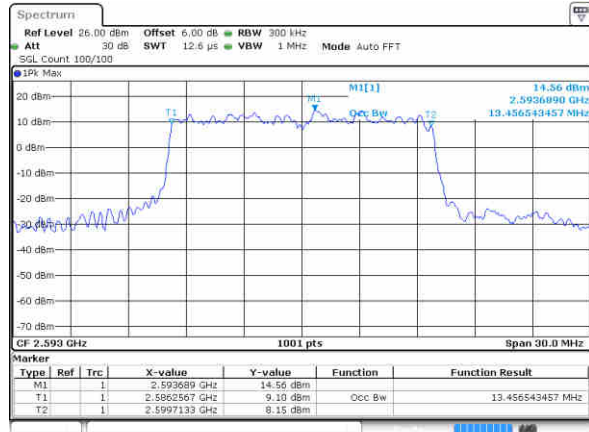
Date: 28 FEB 2020 21:23:26

Middle Channel / 15MHz / QPSK



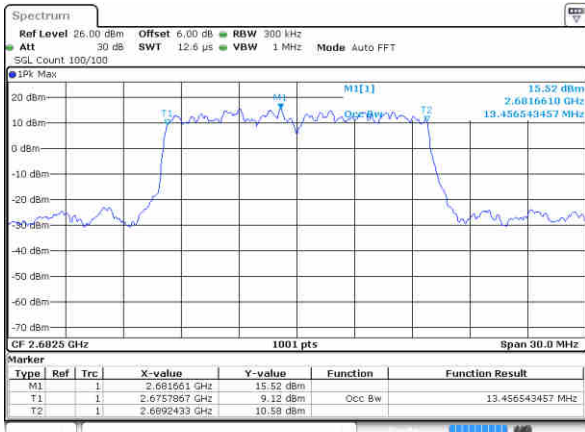
Date: 28 FEB 2020 21:24:06

Middle Channel / 15MHz / 16QAM



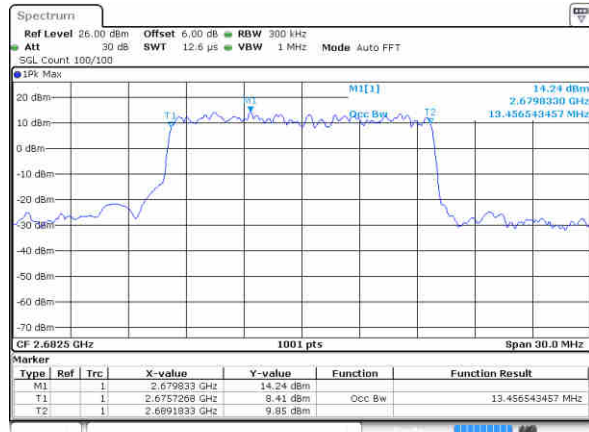
Date: 28 FEB 2020 21:24:26

Highest Channel / 15MHz / QPSK



Date: 28 FEB 2020 21:25:06

Highest Channel / 15MHz / 16QAM

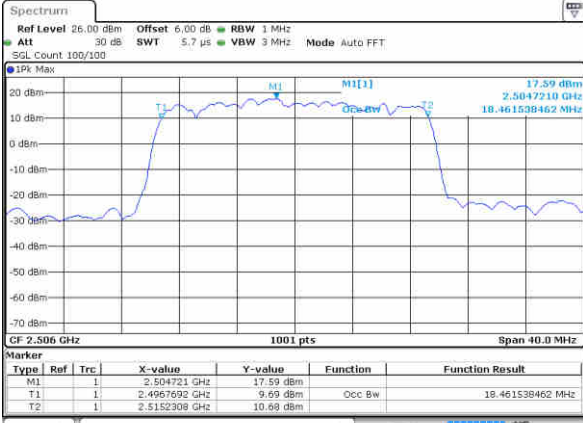


Date: 28 FEB 2020 21:25:26



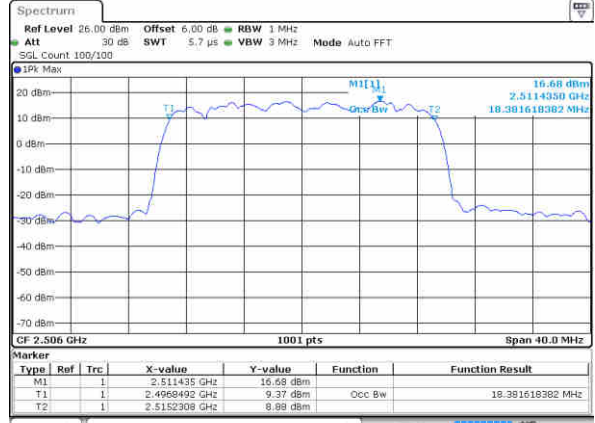
LTE Band 41

Lowest Channel / 20MHz / QPSK



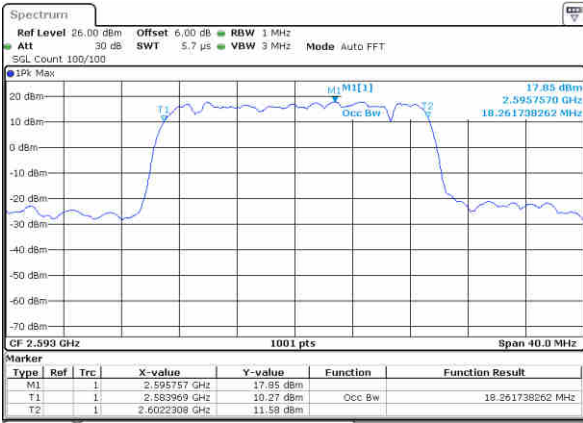
Date: 28 FEB 2020 21:26:05

Lowest Channel / 20MHz / 16QAM



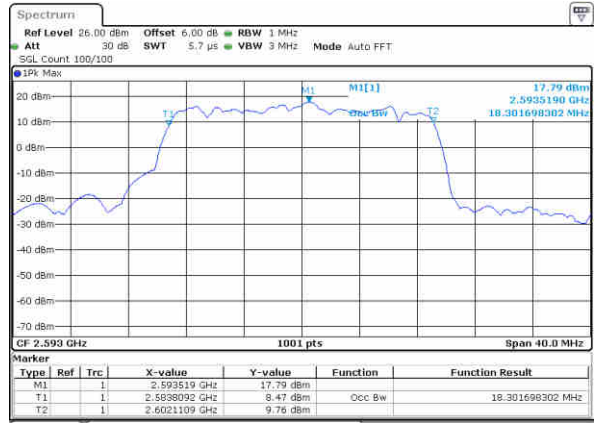
Date: 28 FEB 2020 21:26:25

Middle Channel / 20MHz / QPSK



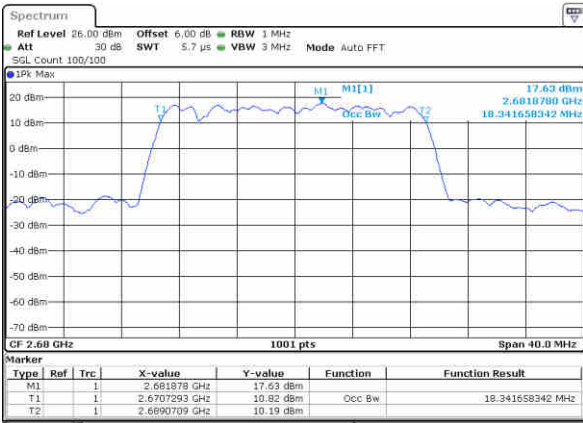
Date: 28 FEB 2020 21:27:05

Middle Channel / 20MHz / 16QAM



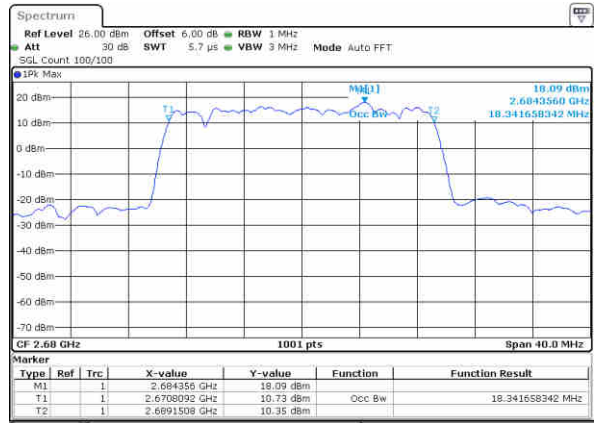
Date: 28 FEB 2020 21:27:25

Highest Channel / 20MHz / QPSK



Date: 28 FEB 2020 21:28:05

Highest Channel / 20MHz / 16QAM

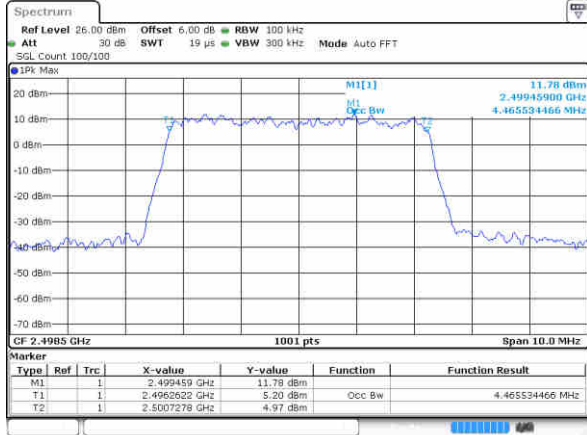


Date: 28 FEB 2020 21:28:25



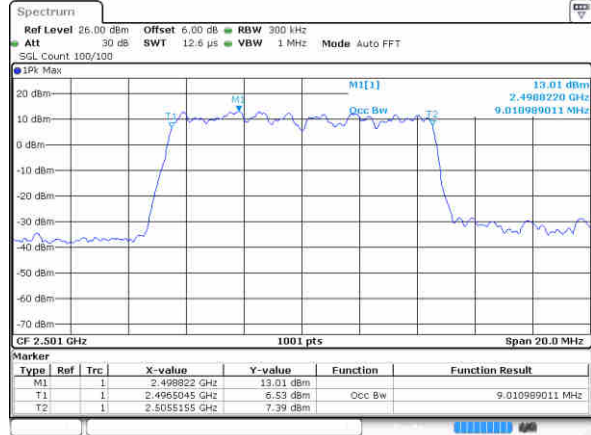
LTE Band 41

Lowest Channel / 5MHz / 64QAM



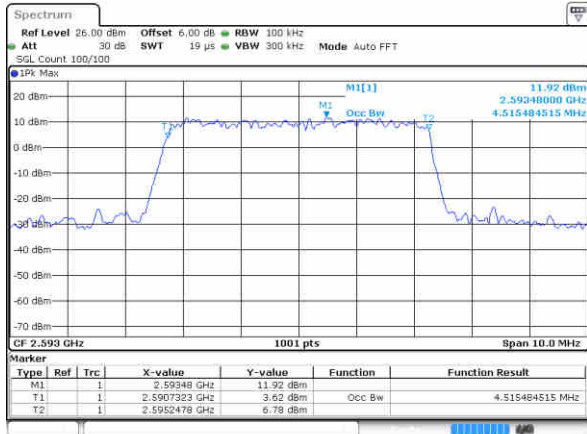
Date: 28 FEB 2020 21:17:45

Lowest Channel / 10MHz / 64QAM



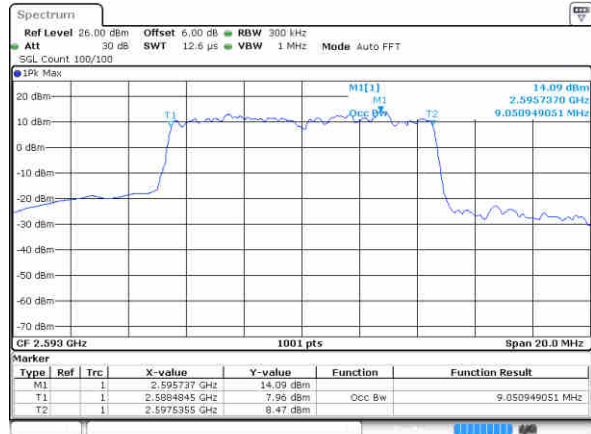
Date: 28 FEB 2020 21:20:45

Middle Channel / 5MHz / 64QAM



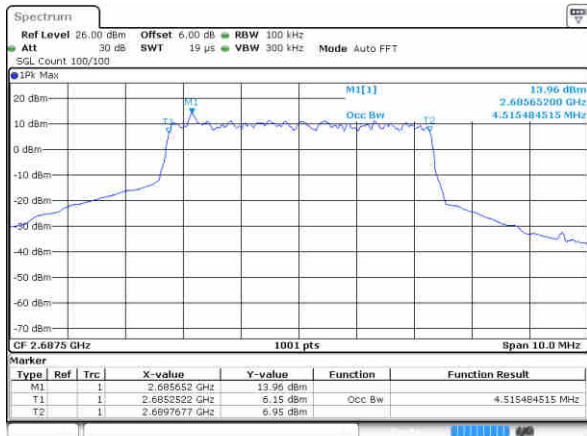
Date: 28 FEB 2020 21:18:45

Middle Channel / 10MHz / 64QAM



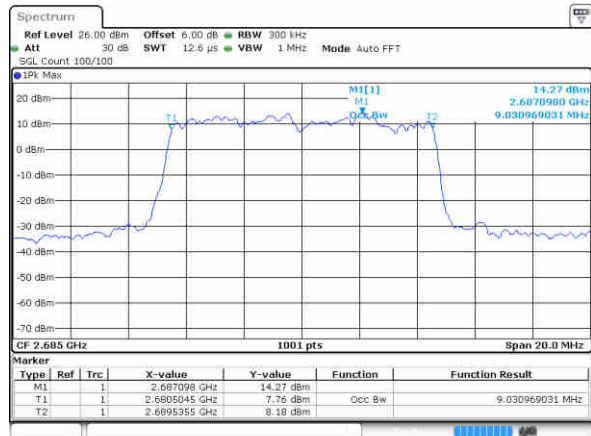
Date: 28 FEB 2020 21:21:46

Highest Channel / 5MHz / 64QAM



Date: 28 FEB 2020 21:19:45

Highest Channel / 10MHz / 64QAM

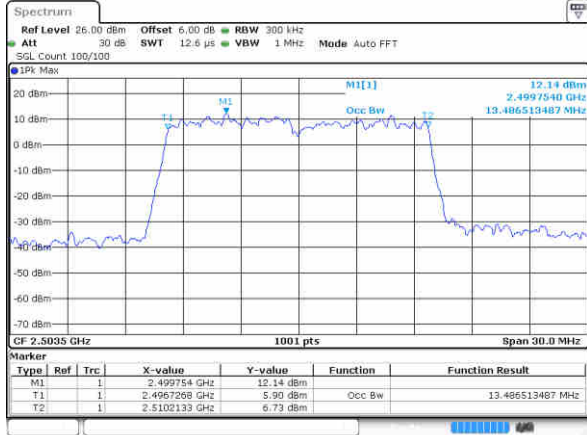


Date: 28 FEB 2020 21:22:46



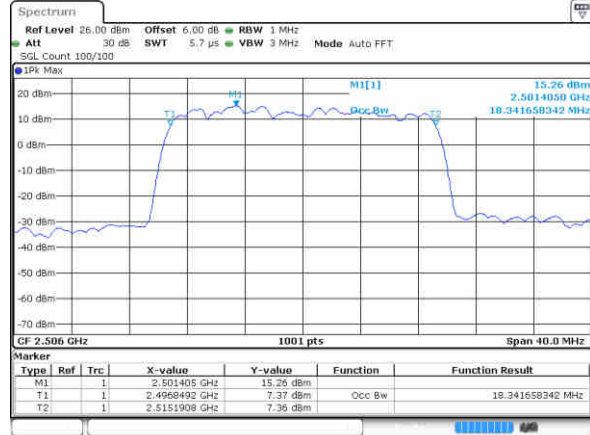
LTE Band 41

Lowest Channel / 15MHz / 64QAM



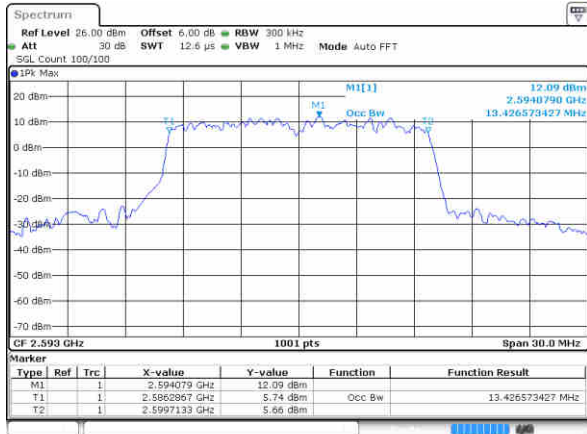
Date: 28 FEB 2020 21 23 46

Lowest Channel / 20MHz / 64QAM



Date: 28 FEB 2020 21 26 45

Middle Channel / 15MHz / 64QAM



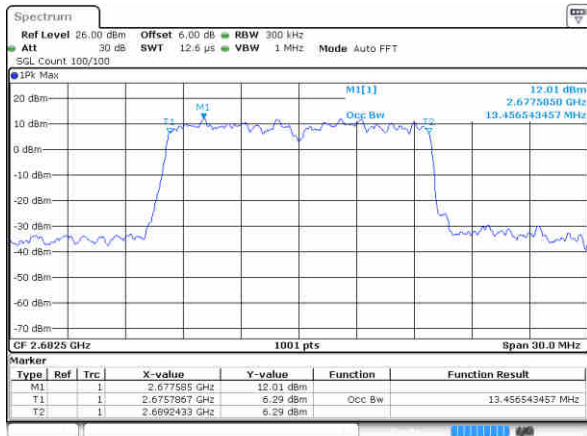
Date: 28 FEB 2020 21 24 46

Middle Channel / 20MHz / 64QAM



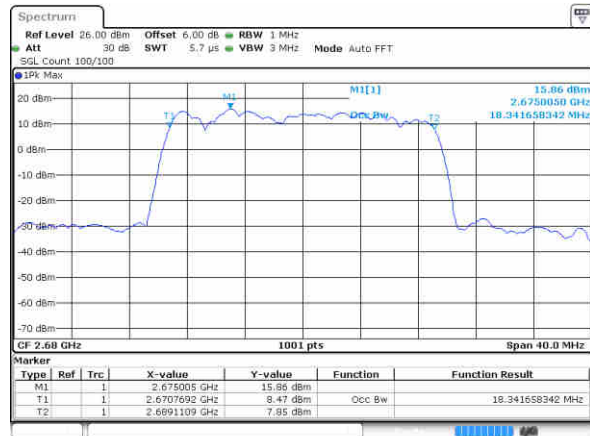
Date: 28 FEB 2020 21 27 45

Highest Channel / 15MHz / 64QAM



Date: 28 FEB 2020 21 25 45

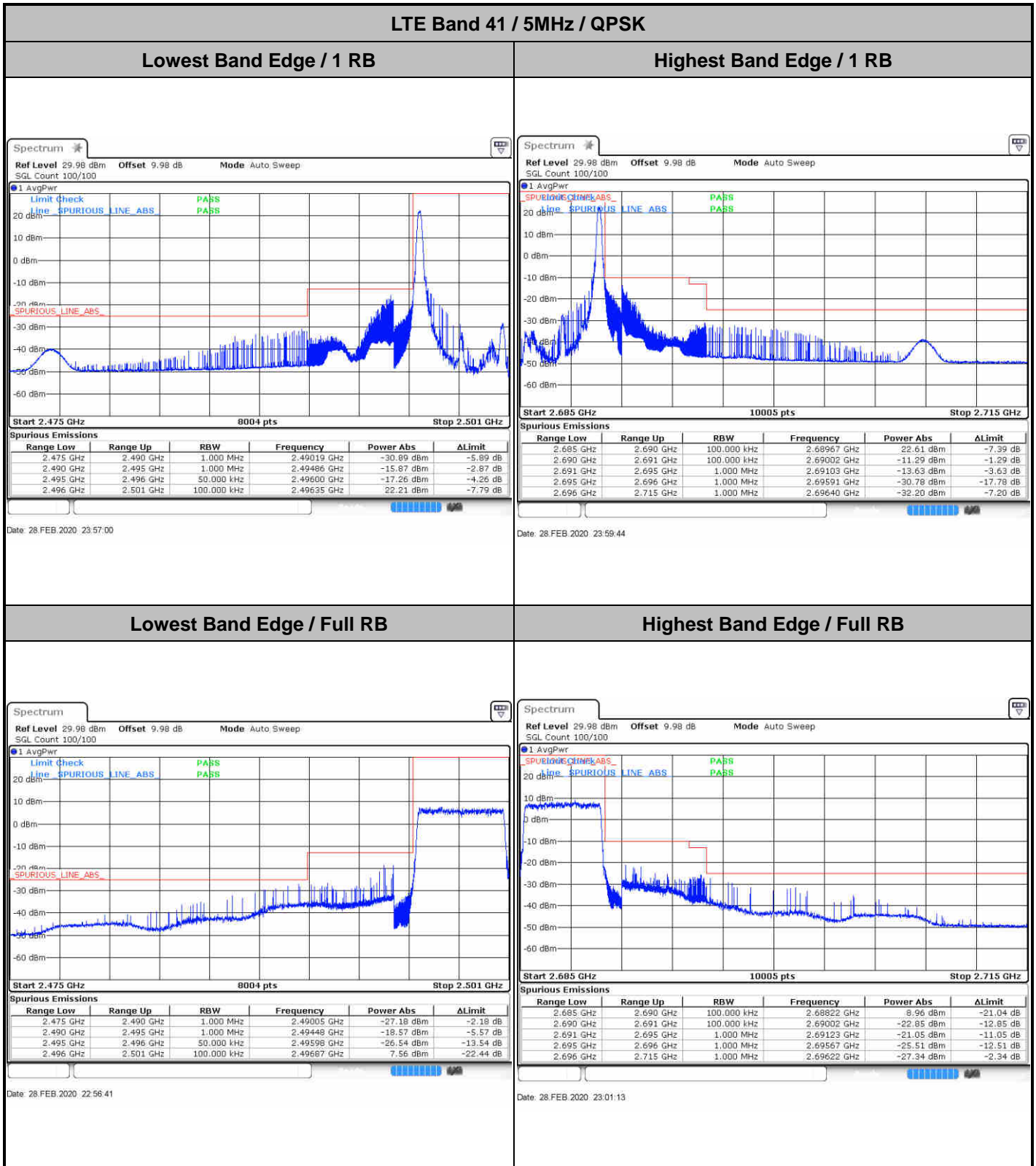
Highest Channel / 20MHz / 64QAM



Date: 28 FEB 2020 21 28 45



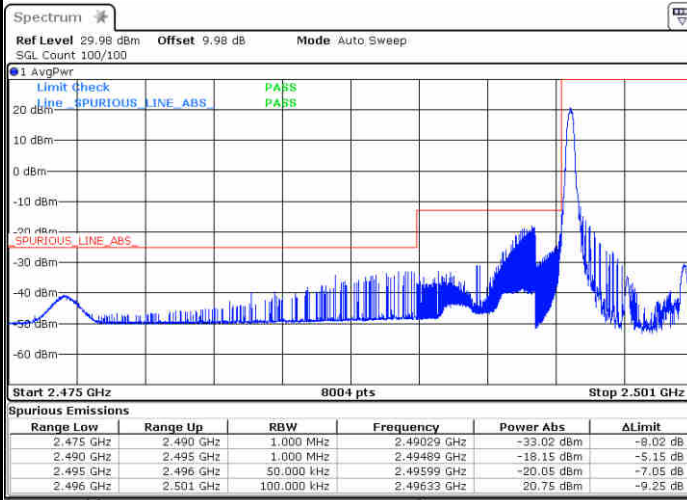
# Conducted Band Edge





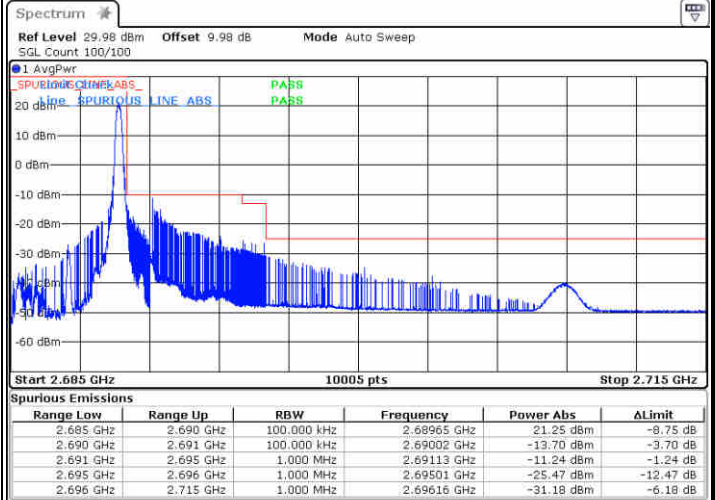
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



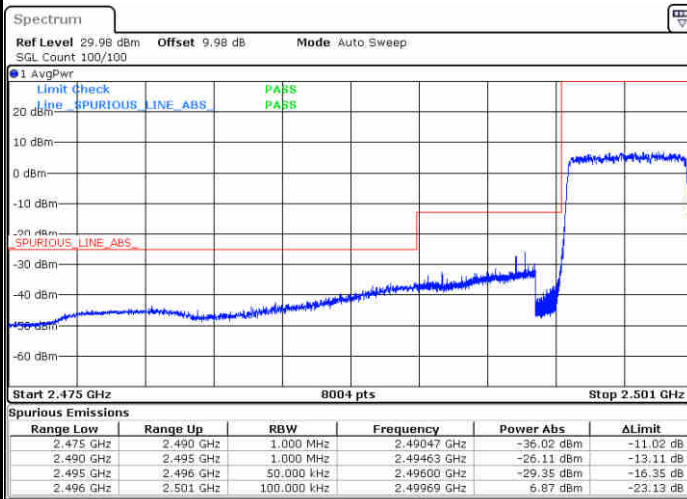
Date: 28.FEB.2020 23:58:13

Highest Band Edge / 1 RB



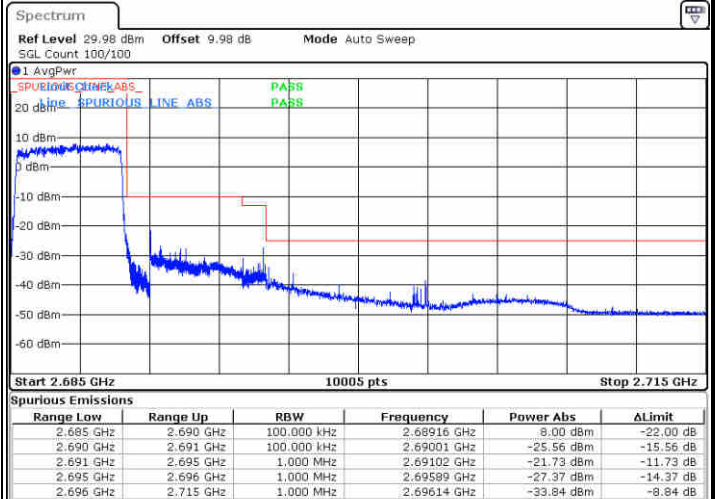
Date: 28.FEB.2020 23:59:04

Lowest Band Edge / Full RB



Date: 28.FEB.2020 22:57:49

Highest Band Edge / Full RB

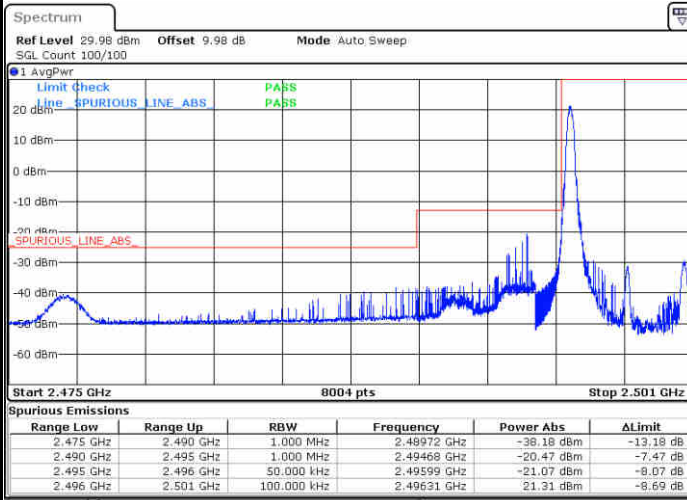


Date: 28.FEB.2020 23:02:21



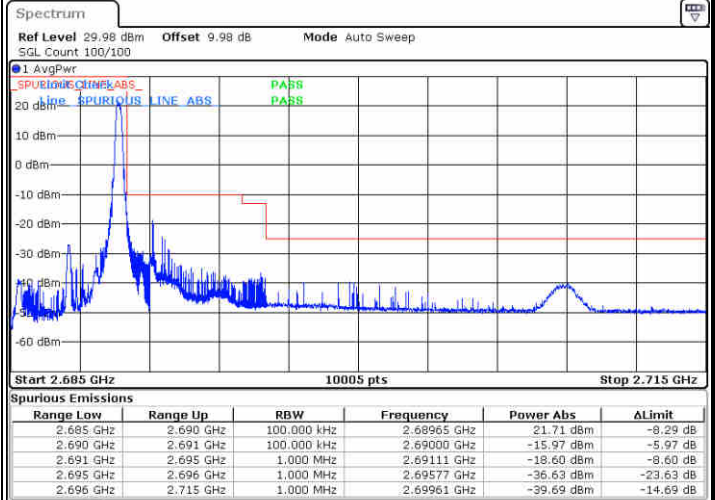
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



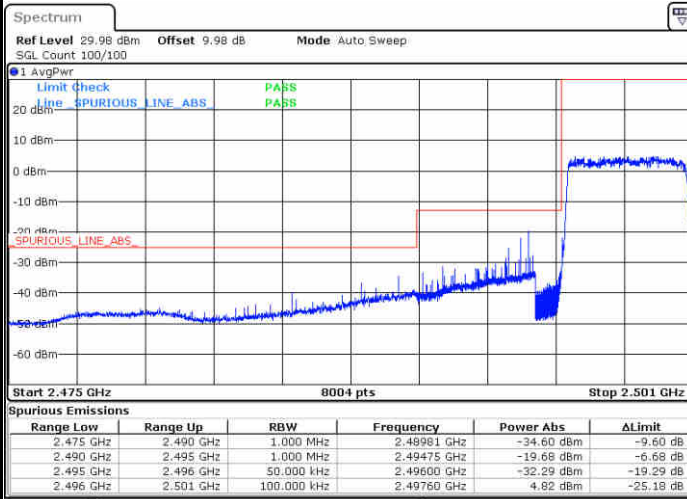
Date: 28.FEB.2020 23:30:43

Highest Band Edge / 1 RB



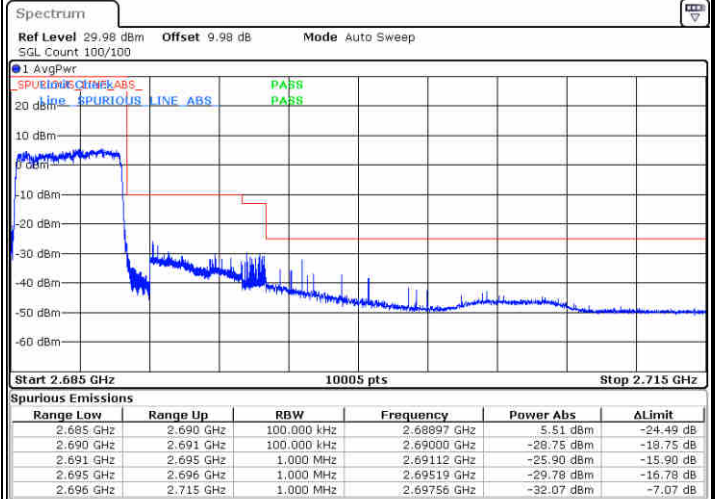
Date: 28.FEB.2020 23:34:07

Lowest Band Edge / Full RB



Date: 28.FEB.2020 23:31:51

Highest Band Edge / Full RB

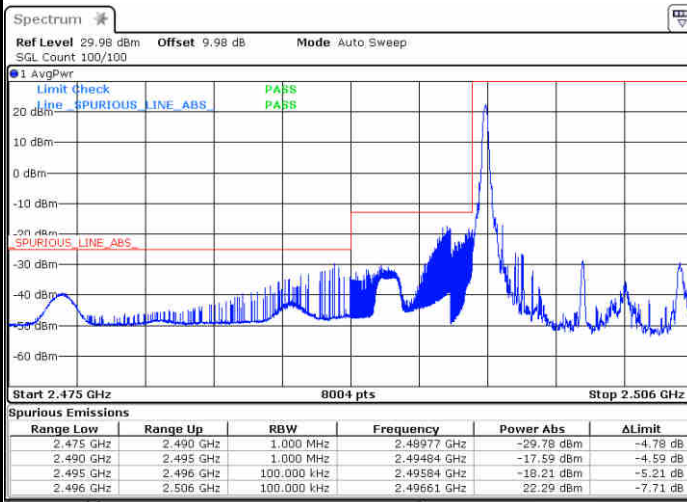


Date: 28.FEB.2020 23:32:58



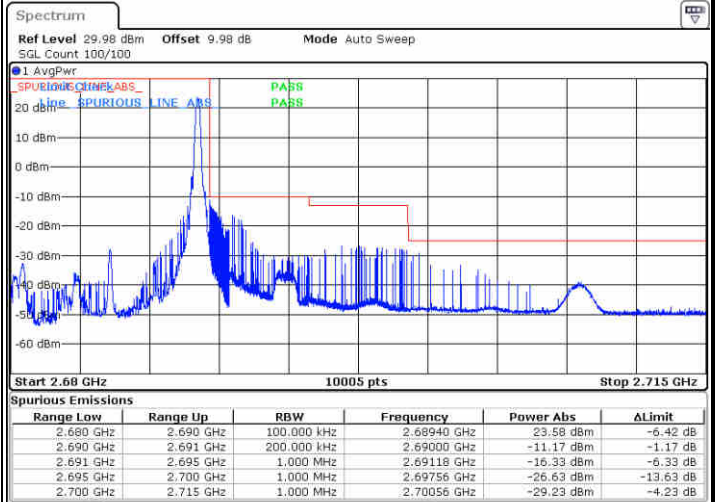
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



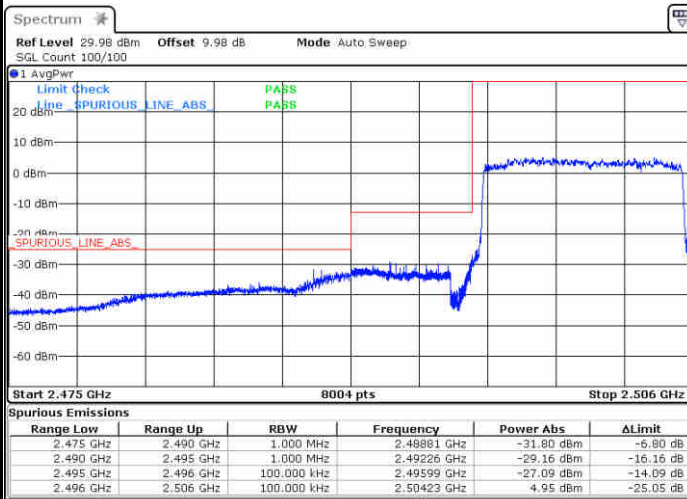
Date: 28.FEB.2020 23:55:22

Highest Band Edge / 1 RB



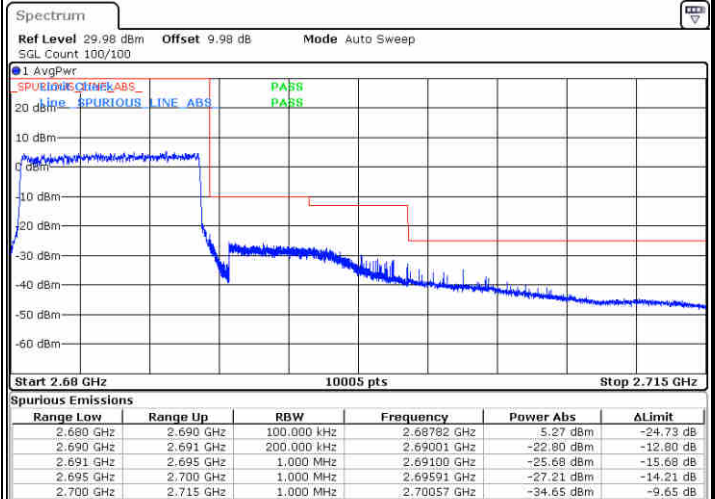
Date: 28.FEB.2020 23:55:46

Lowest Band Edge / Full RB



Date: 28.FEB.2020 23:52:19

Highest Band Edge / Full RB

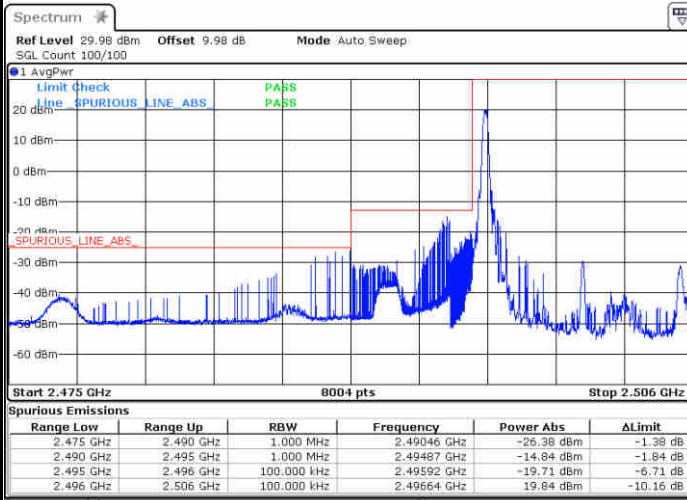


Date: 28.FEB.2020 23:10:18



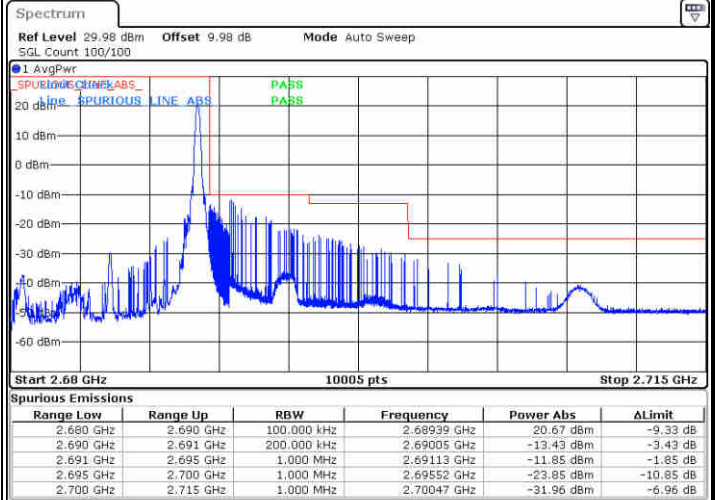
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



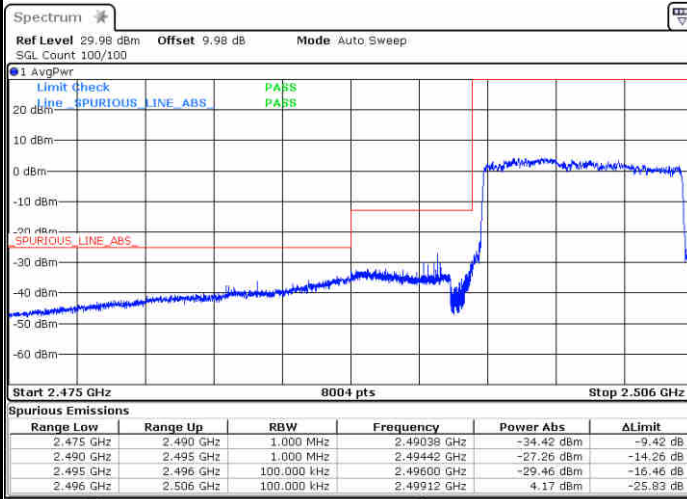
Date: 28.FEB.2020 23:54:33

Highest Band Edge / 1 RB



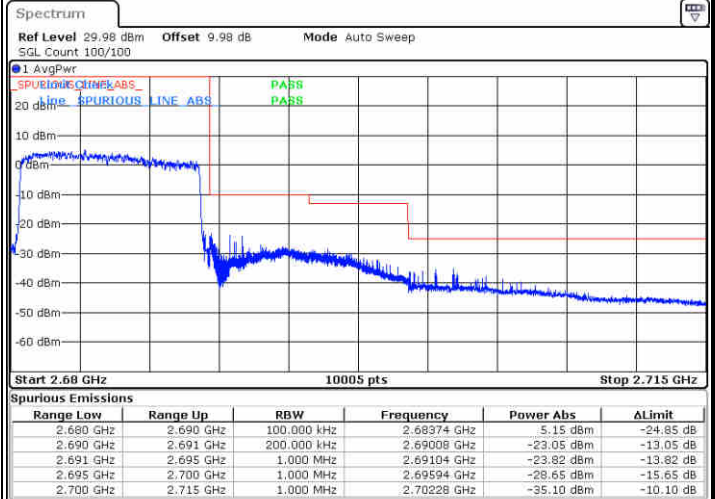
Date: 28.FEB.2020 23:09:10

Lowest Band Edge / Full RB



Date: 28.FEB.2020 23:52:54

Highest Band Edge / Full RB

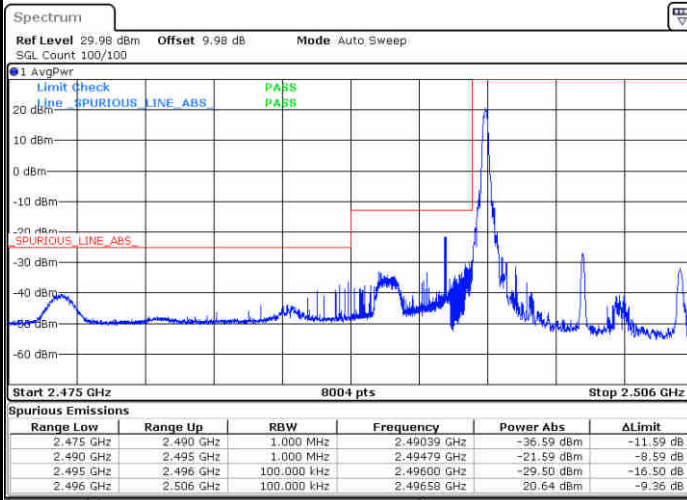


Date: 28.FEB.2020 23:11:26



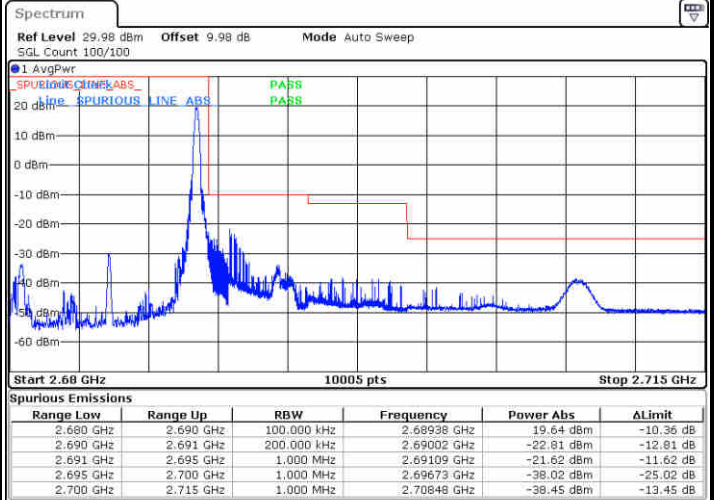
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



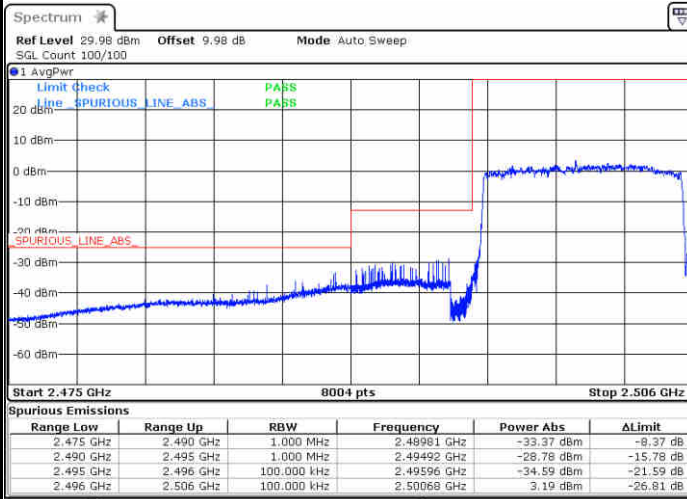
Date: 28.FEB.2020 23:35:16

Highest Band Edge / 1 RB



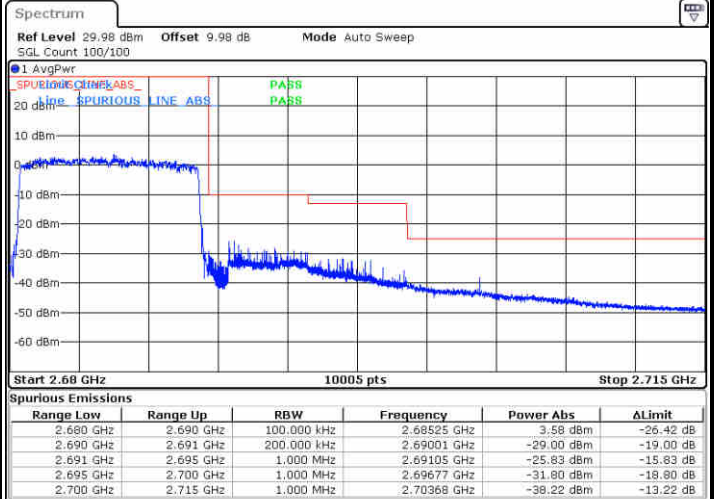
Date: 28.FEB.2020 23:38:40

Lowest Band Edge / Full RB



Date: 28.FEB.2020 23:53:51

Highest Band Edge / Full RB

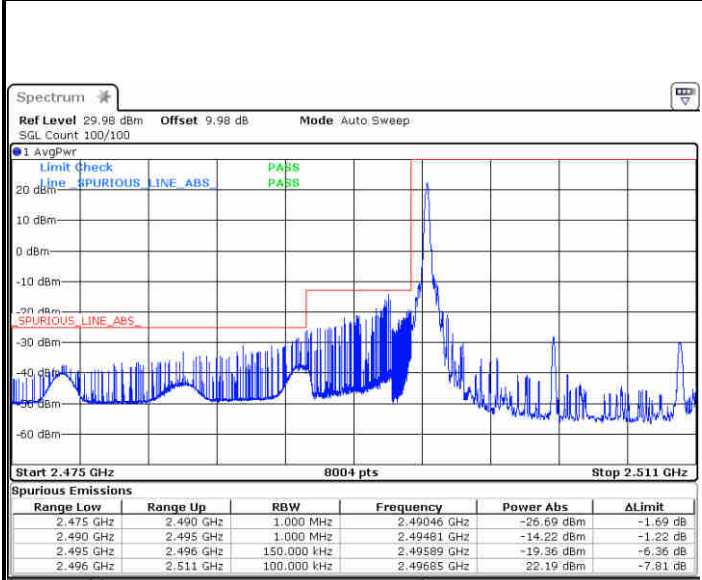


Date: 28.FEB.2020 23:37:52



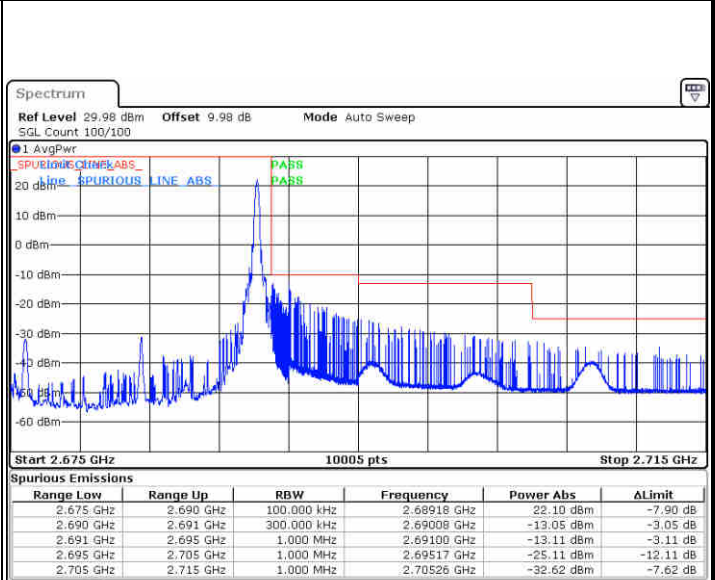
**LTE Band 41 / 15MHz / QPSK**

**Lowest Band Edge / 1 RB**



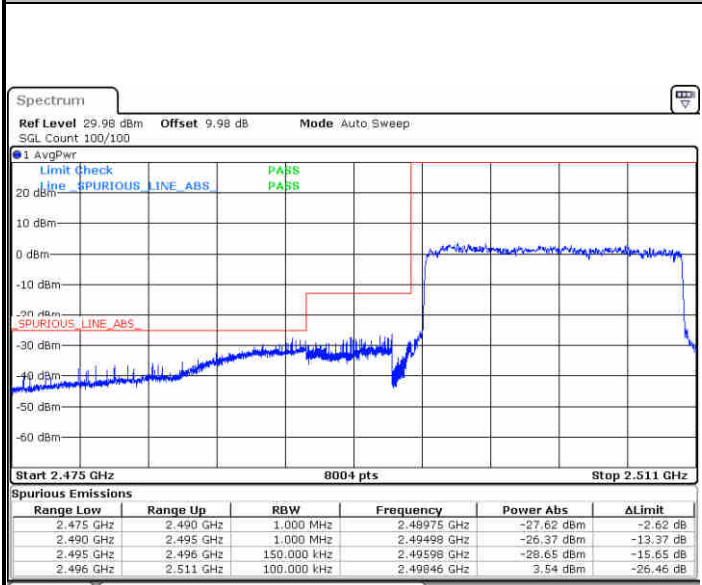
Date: 28.FEB.2020 23:50:31

**Highest Band Edge / 1 RB**



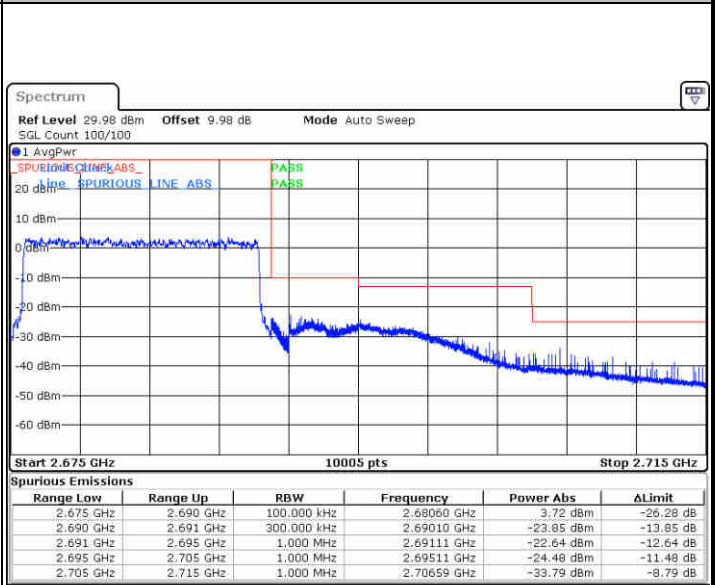
Date: 28.FEB.2020 23:17:06

**Lowest Band Edge / Full RB**



Date: 28.FEB.2020 23:14:50

**Highest Band Edge / Full RB**

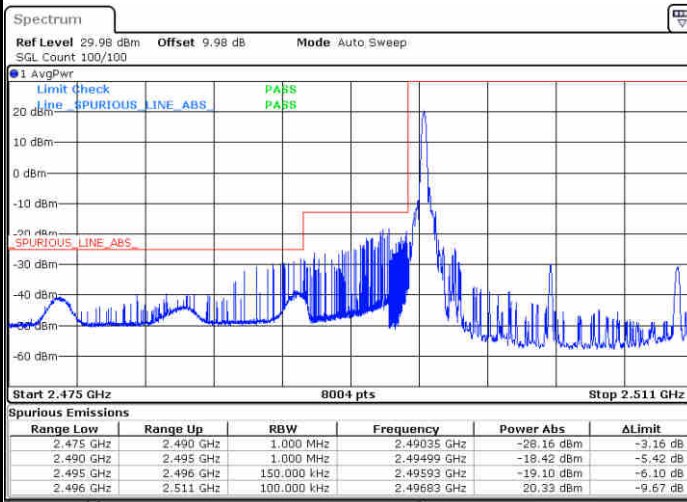


Date: 28.FEB.2020 23:19:23



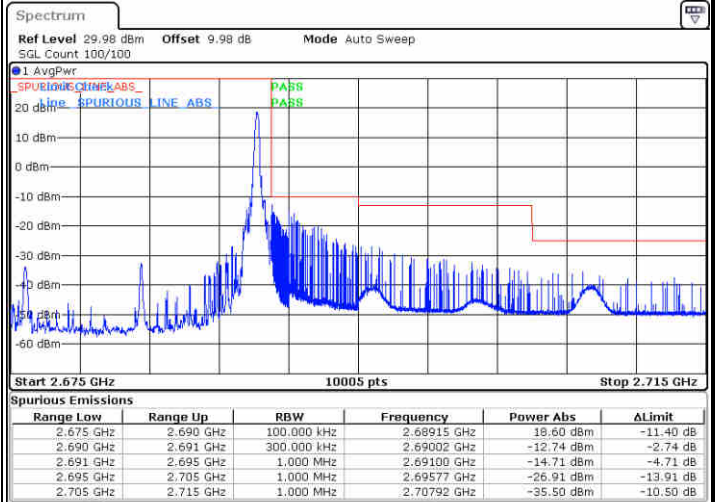
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



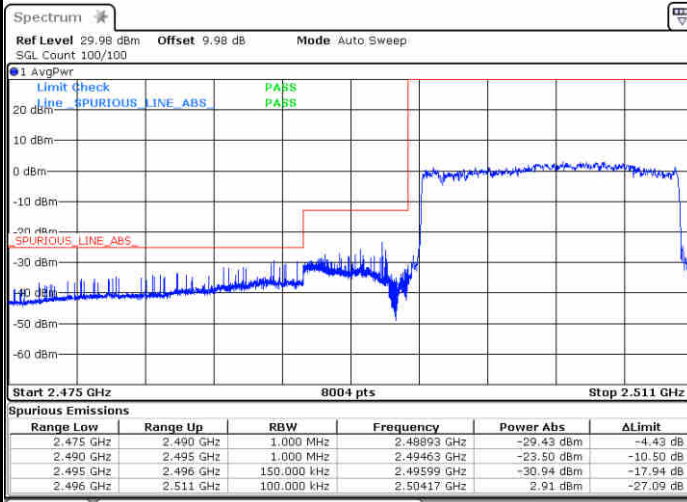
Date: 28.FEB.2020 23:13:42

Highest Band Edge / 1 RB



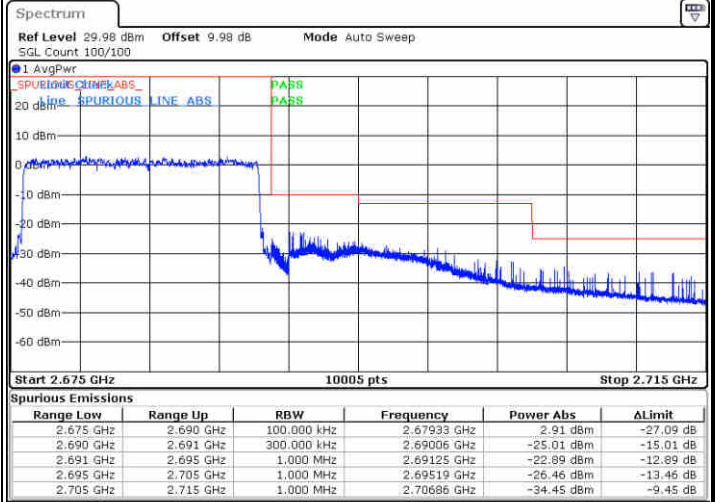
Date: 28.FEB.2020 23:18:15

Lowest Band Edge / Full RB



Date: 28.FEB.2020 23:51:08

Highest Band Edge / Full RB

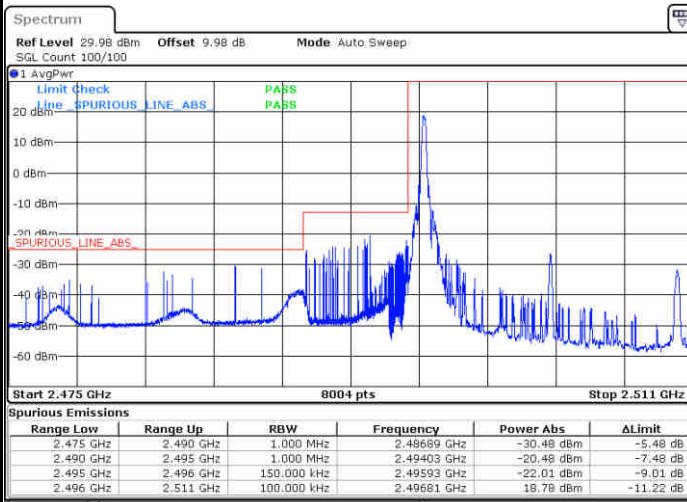


Date: 28.FEB.2020 23:20:31



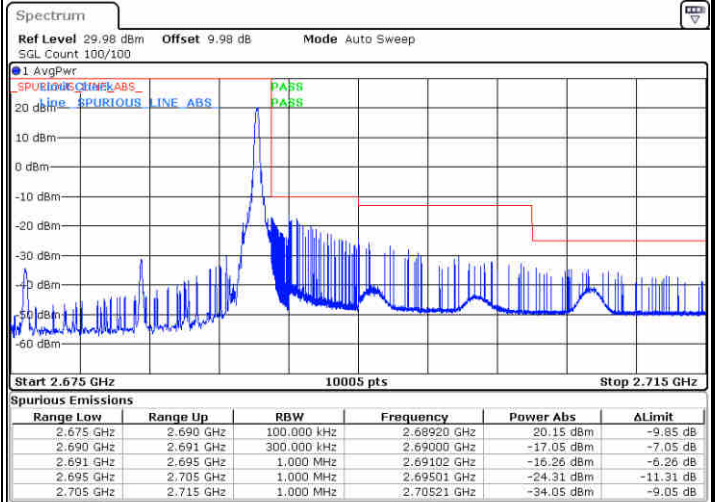
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



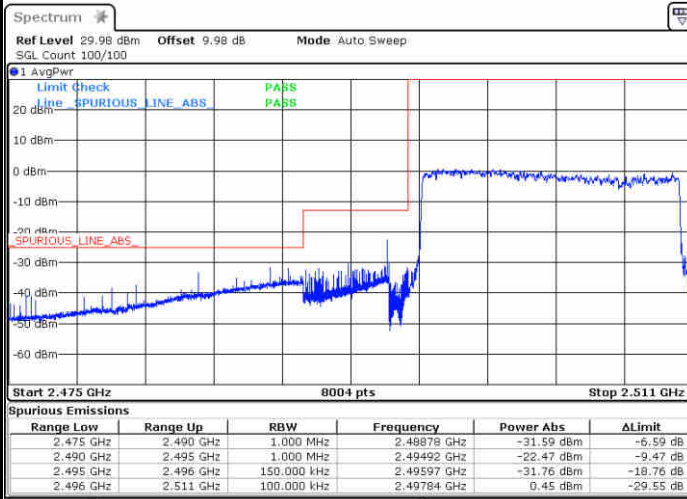
Date: 28.FEB.2020 23:39:48

Highest Band Edge / 1 RB



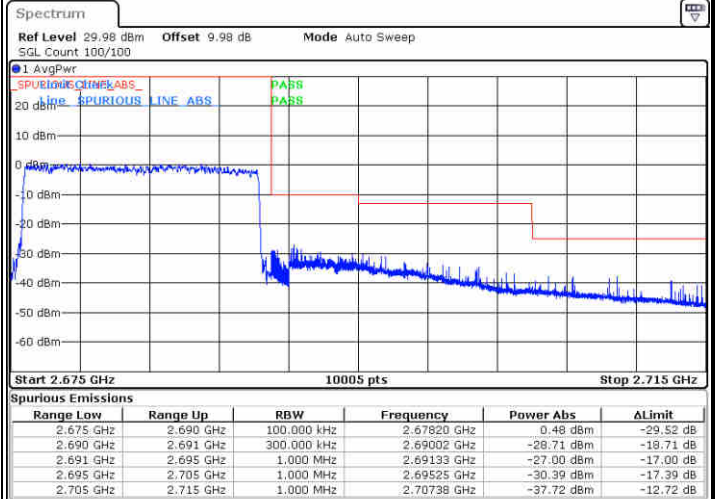
Date: 28.FEB.2020 23:43:12

Lowest Band Edge / Full RB



Date: 28.FEB.2020 23:51:33

Highest Band Edge / Full RB

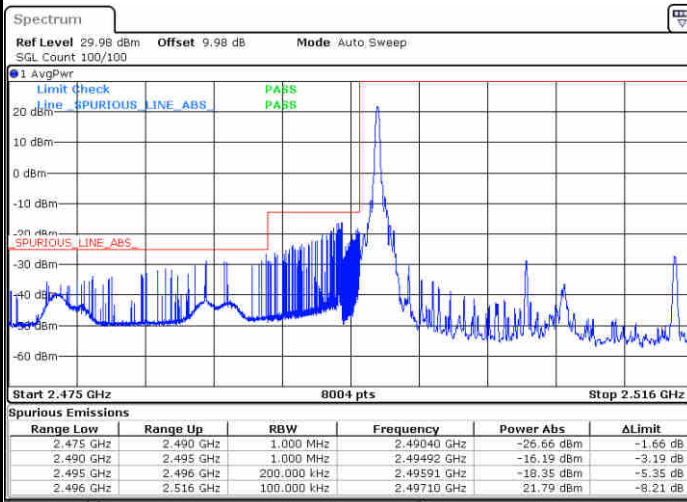


Date: 28.FEB.2020 23:42:04



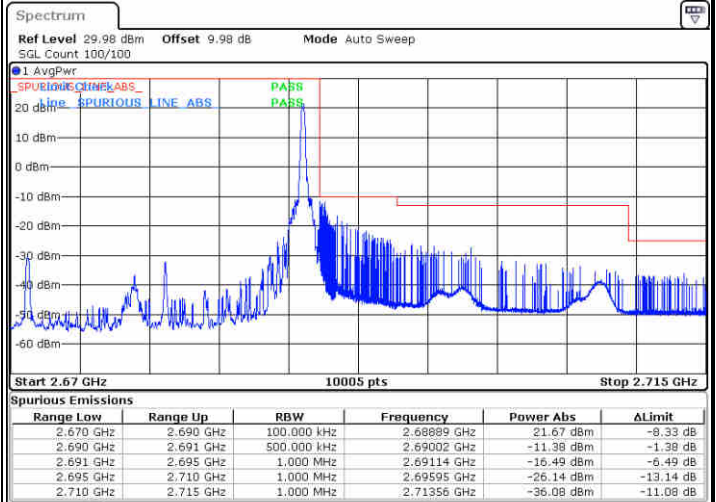
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



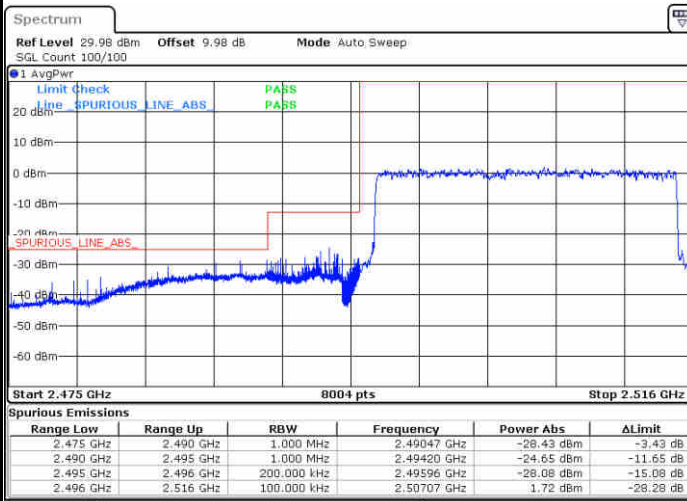
Date: 28.FEB.2020 23:21:39

Highest Band Edge / 1 RB



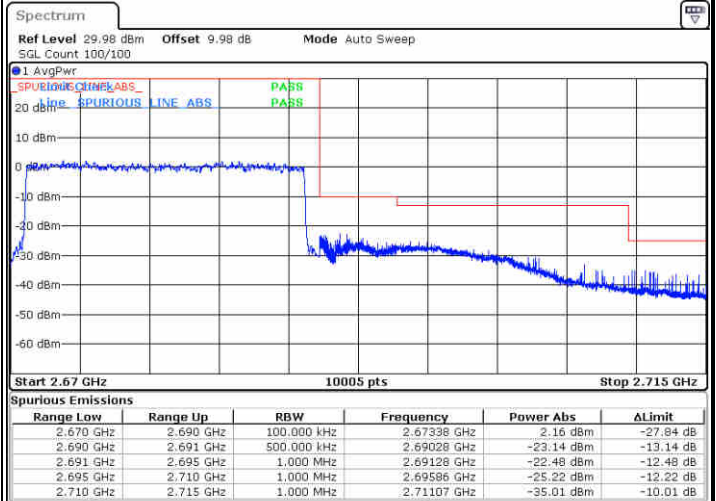
Date: 28.FEB.2020 23:28:11

Lowest Band Edge / Full RB



Date: 28.FEB.2020 23:23:55

Highest Band Edge / Full RB

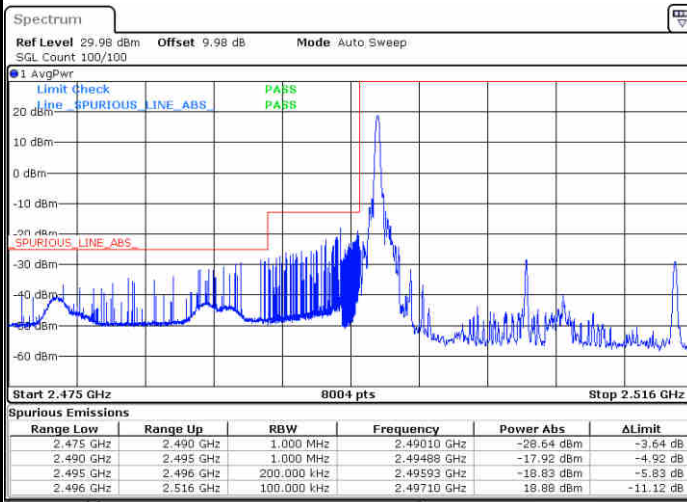


Date: 28.FEB.2020 23:29:35



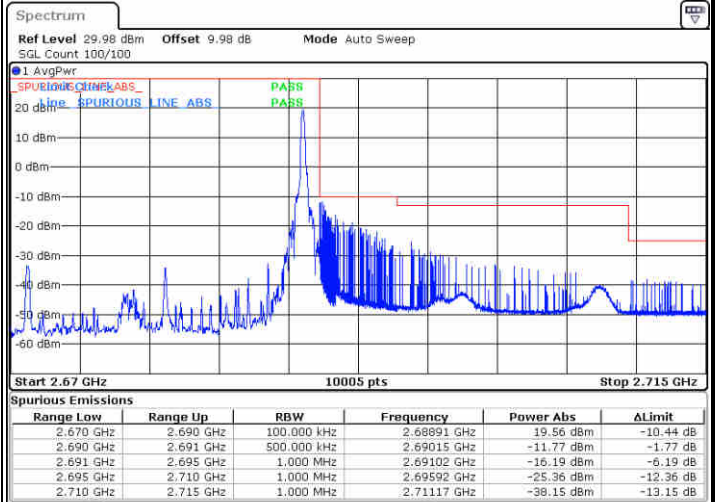
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



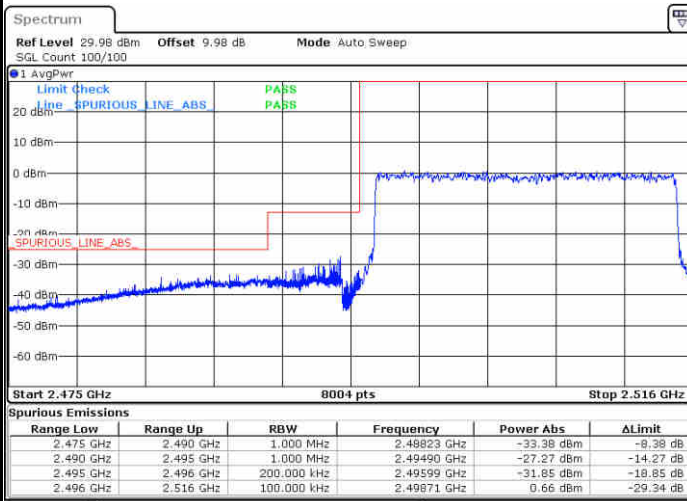
Date: 28.FEB.2020 23:22:47

Highest Band Edge / 1 RB



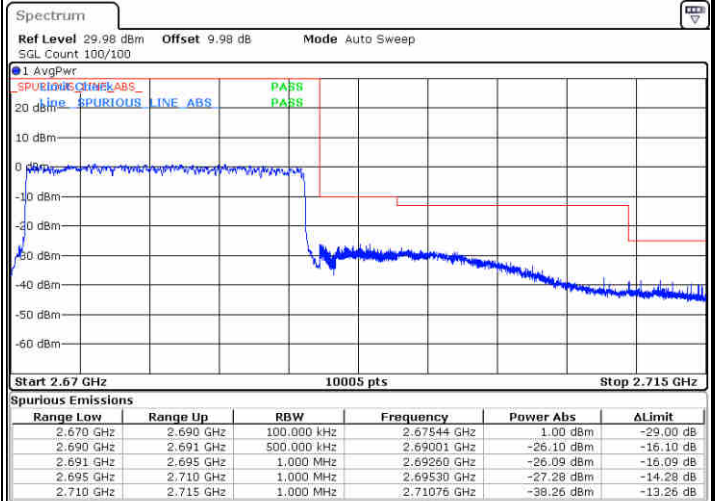
Date: 28.FEB.2020 23:27:19

Lowest Band Edge / Full RB



Date: 28.FEB.2020 23:25:03

Highest Band Edge / Full RB

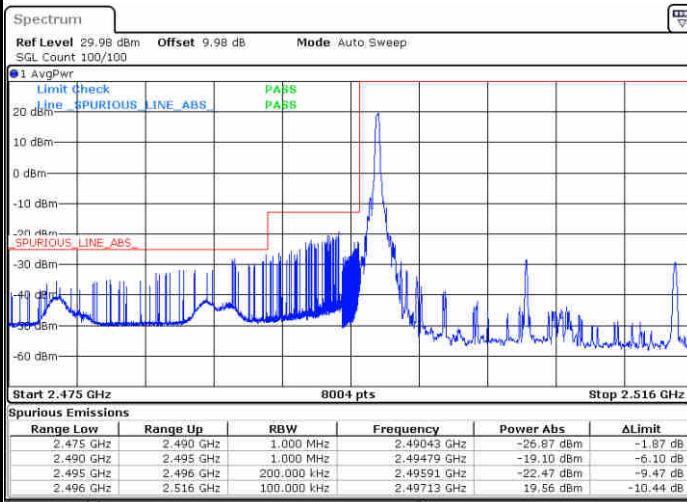


Date: 28.FEB.2020 23:28:27



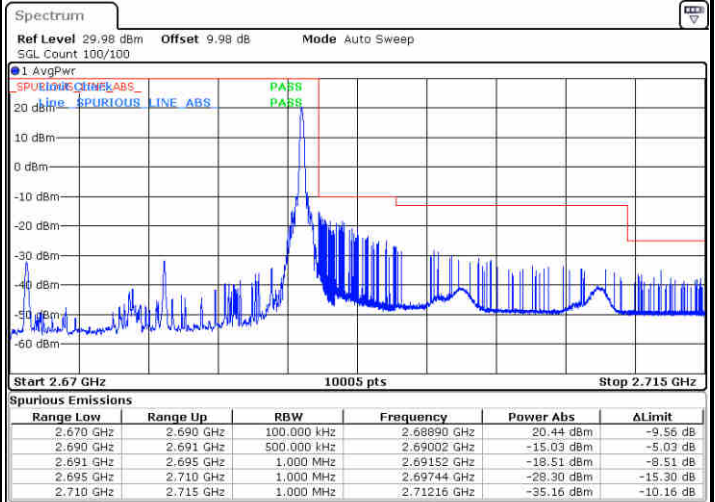
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



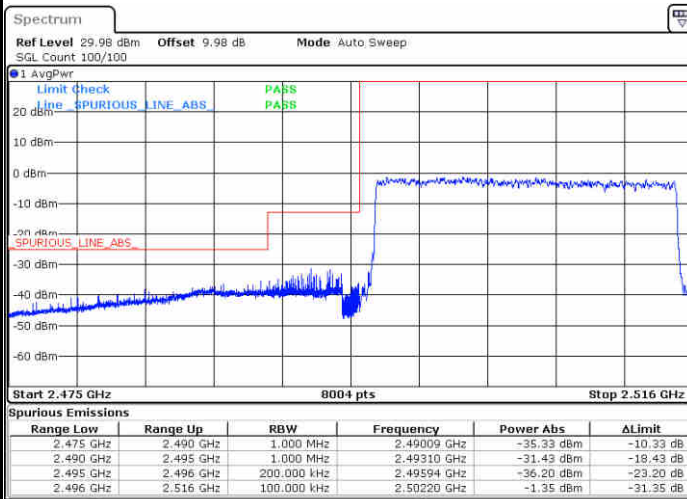
Date: 28.FEB.2020 23:44:20

Highest Band Edge / 1 RB



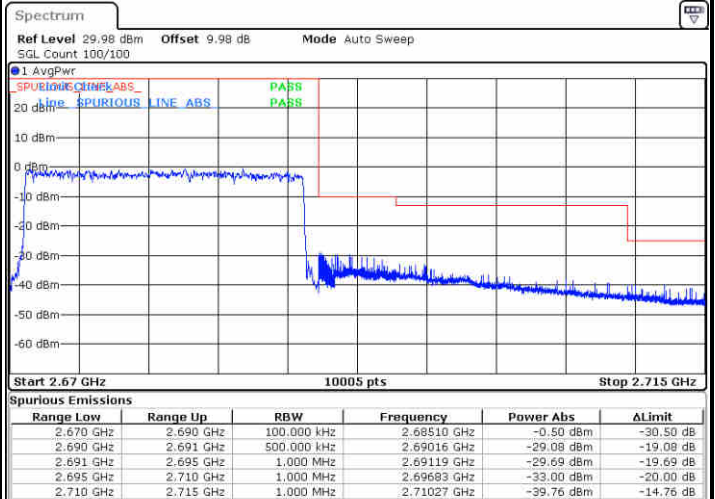
Date: 28.FEB.2020 23:47:44

Lowest Band Edge / Full RB



Date: 28.FEB.2020 23:45:28

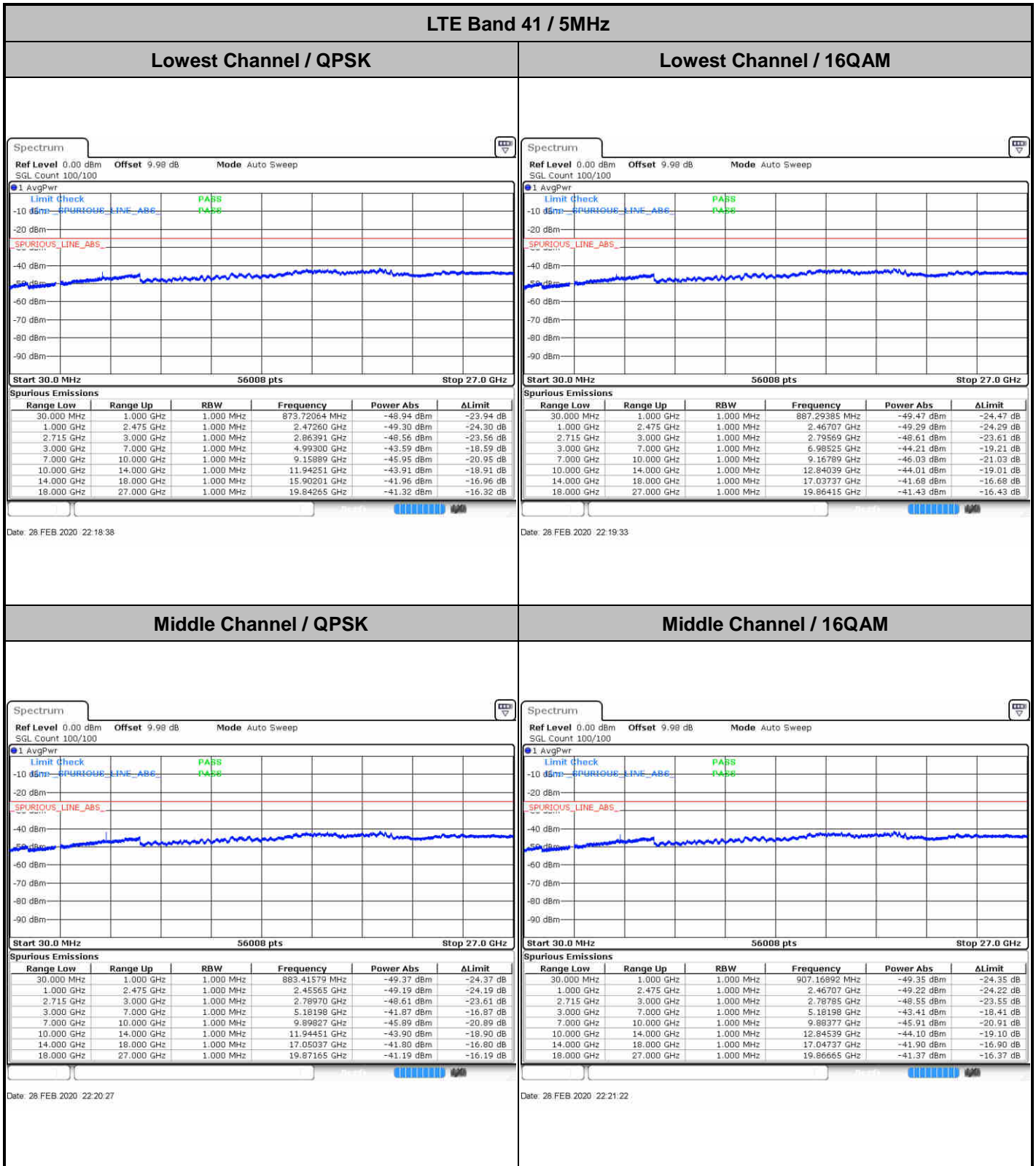
Highest Band Edge / Full RB



Date: 28.FEB.2020 23:46:36



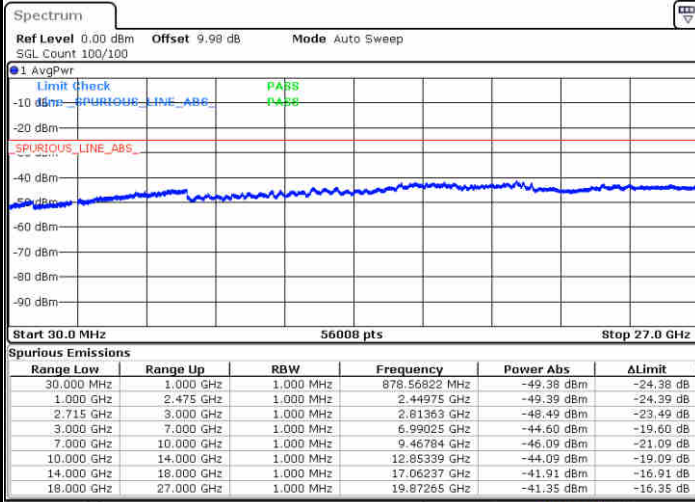
# Conducted Spurious Emission





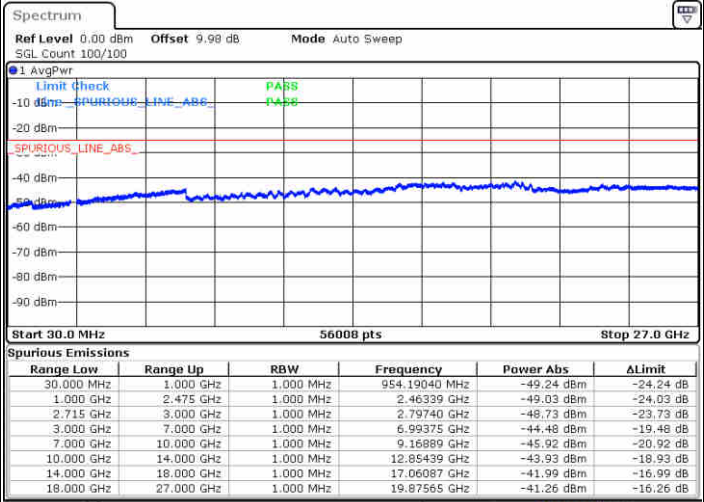
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 28 FEB 2020 22:22:17

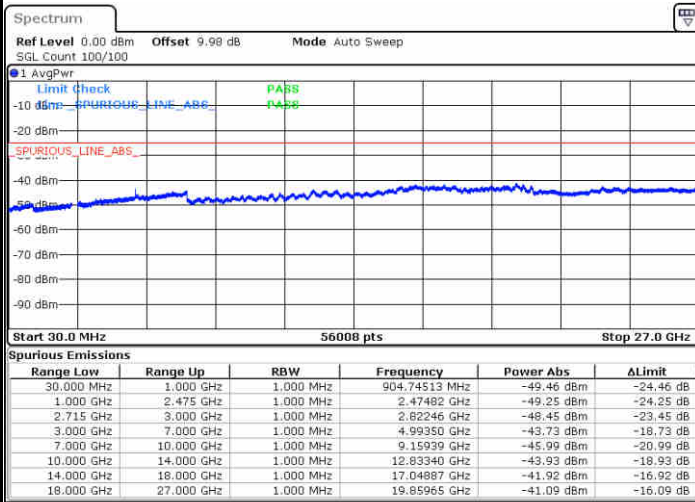
Highest Channel / 16QAM



Date: 28 FEB 2020 22:23:11

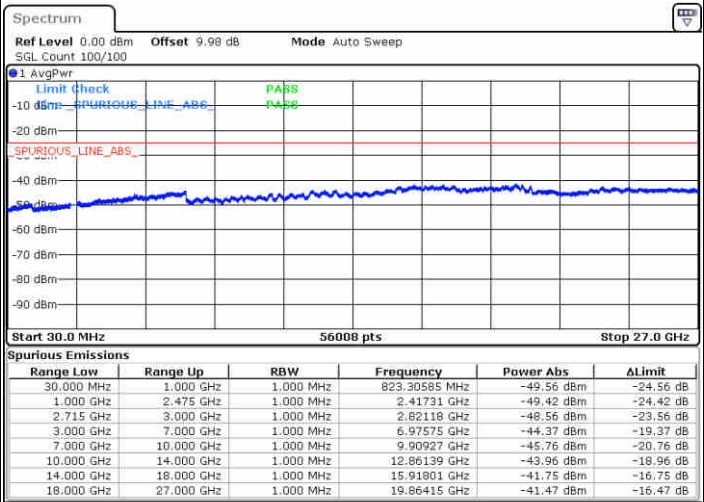
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 28 FEB 2020 22:24:05

Lowest Channel / 16QAM



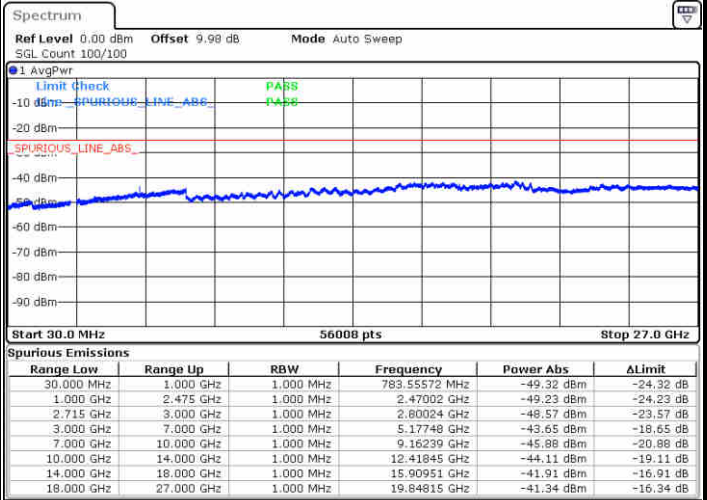
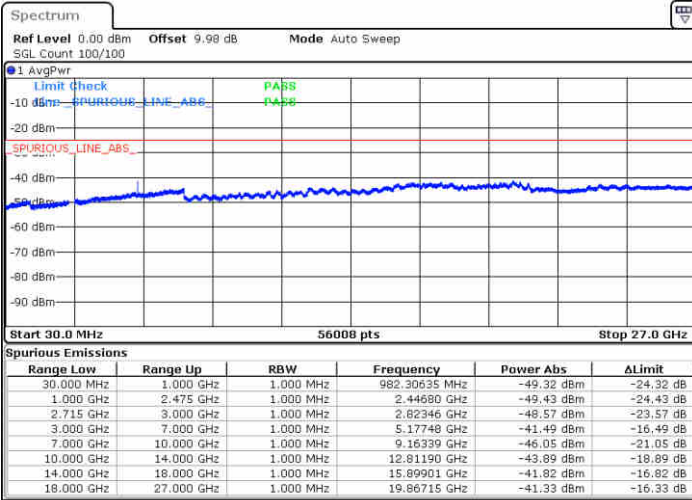
Date: 28 FEB 2020 22:25:01



LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

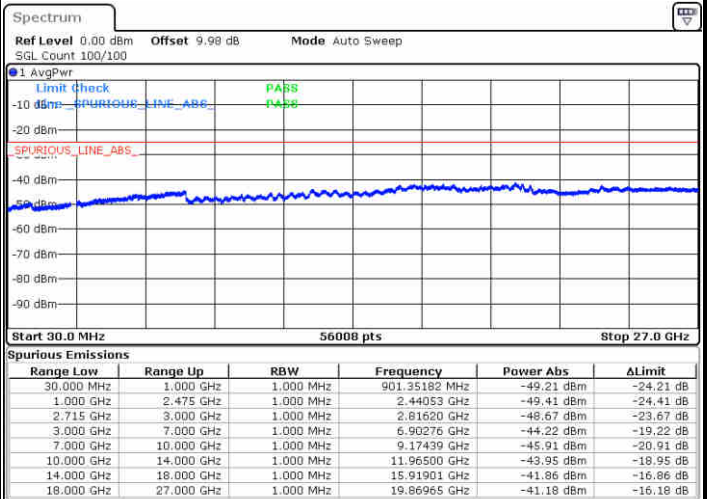
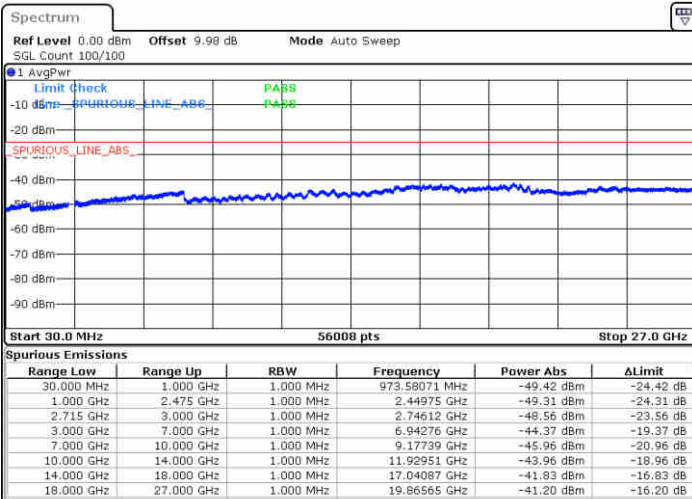


Date: 28 FEB 2020 22:25:55

Date: 28 FEB 2020 22:26:50

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 28 FEB 2020 22:27:45

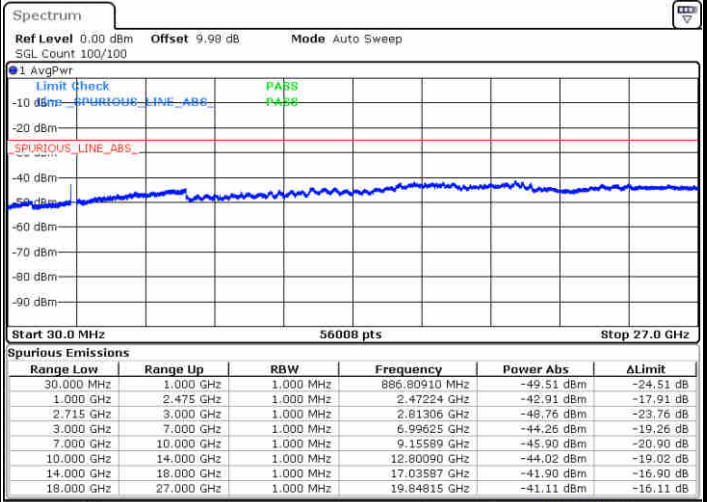
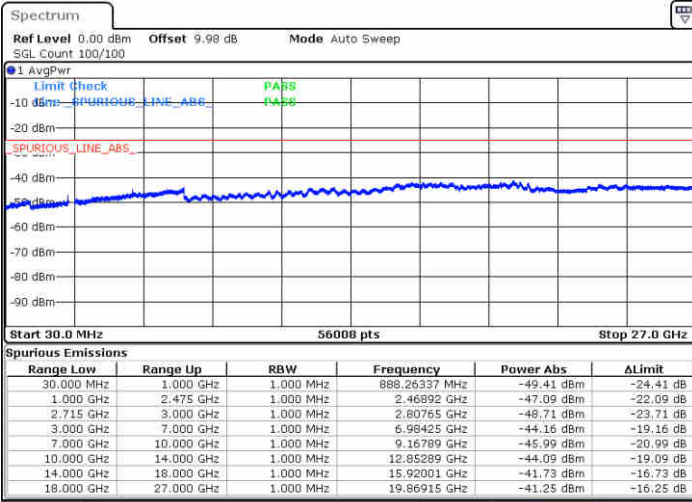
Date: 28 FEB 2020 22:28:39



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

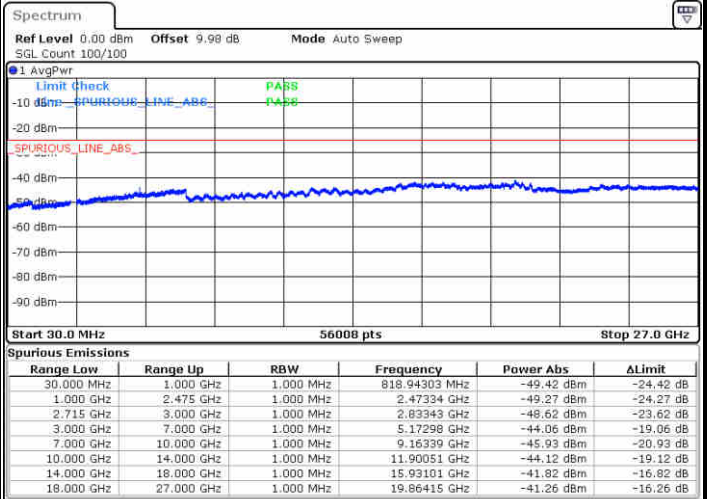
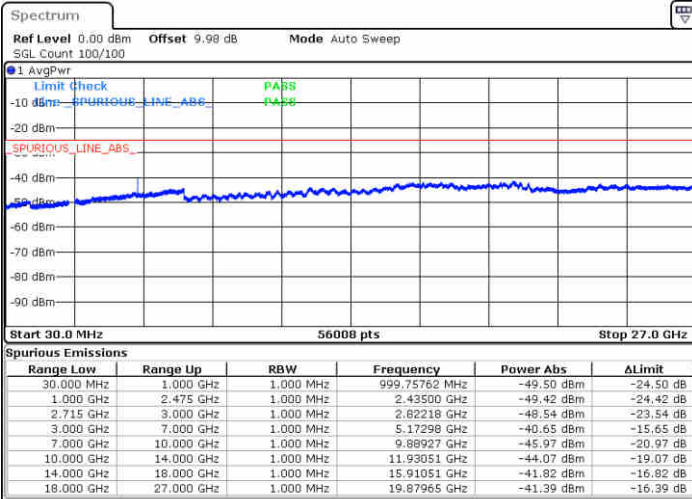


Date: 28 FEB 2020 22:29:34

Date: 28 FEB 2020 22:30:29

Middle Channel / QPSK

Middle Channel / 16QAM



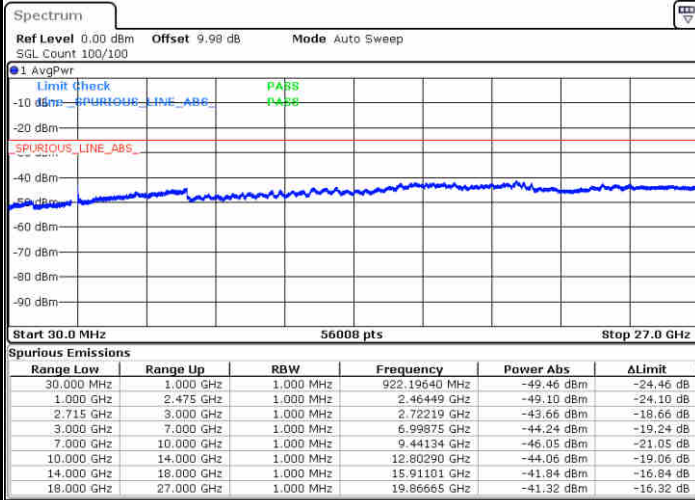
Date: 28 FEB 2020 22:31:24

Date: 28 FEB 2020 22:32:18



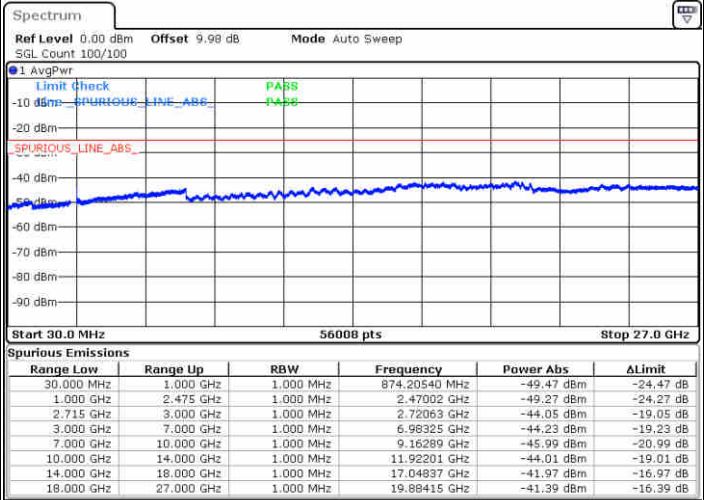
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 28 FEB 2020 22:33:13

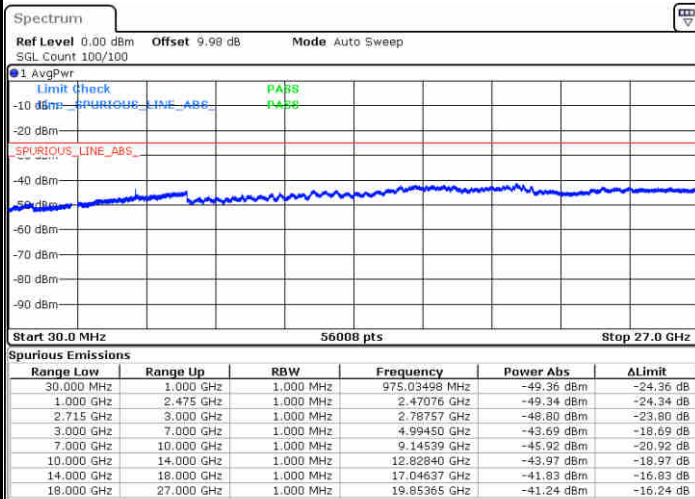
Highest Channel / 16QAM



Date: 28 FEB 2020 22:34:08

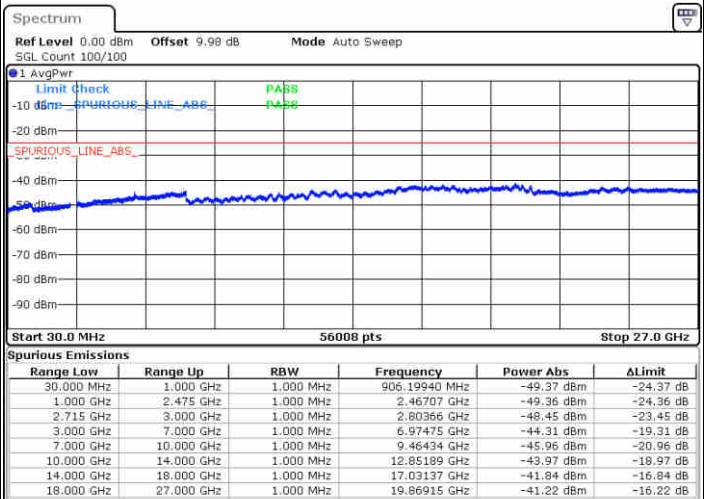
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 28 FEB 2020 22:35:02

Lowest Channel / 16QAM



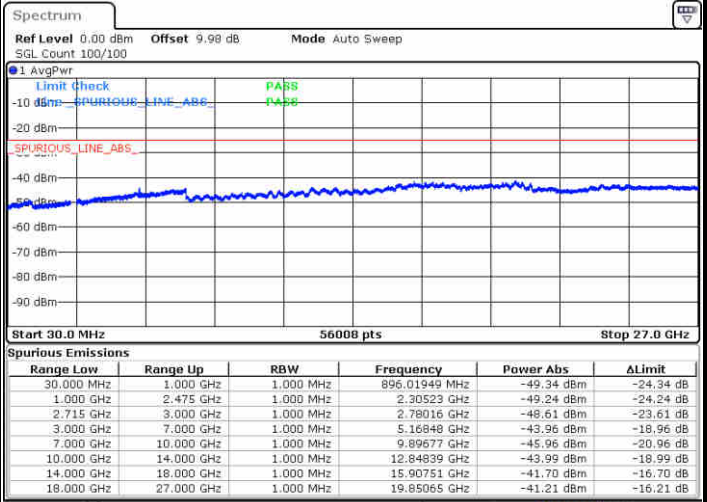
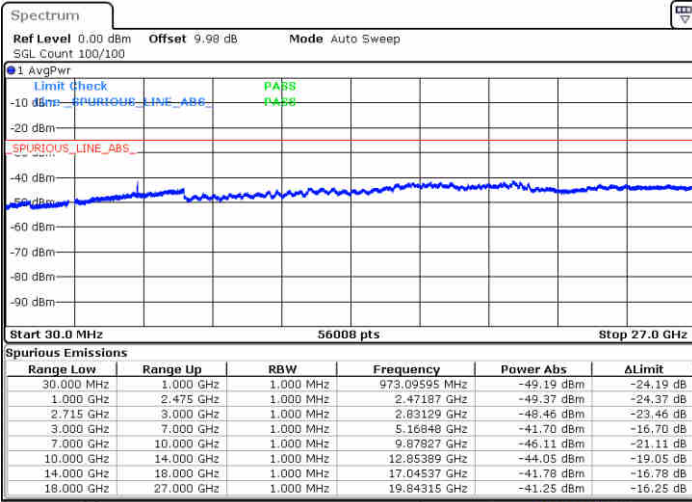
Date: 28 FEB 2020 22:35:57



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

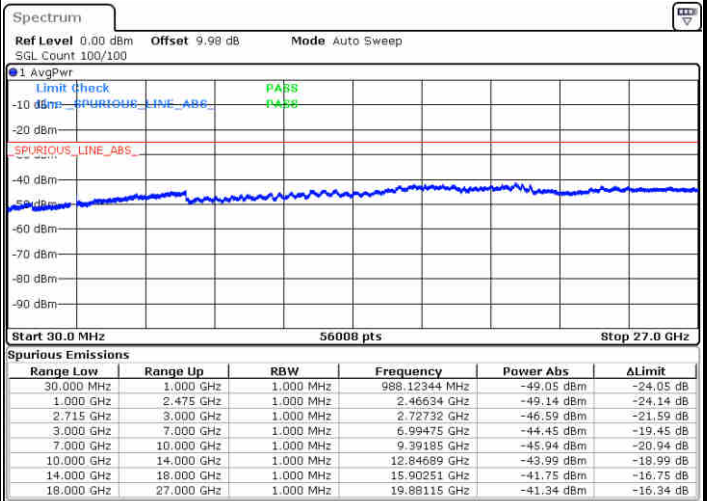
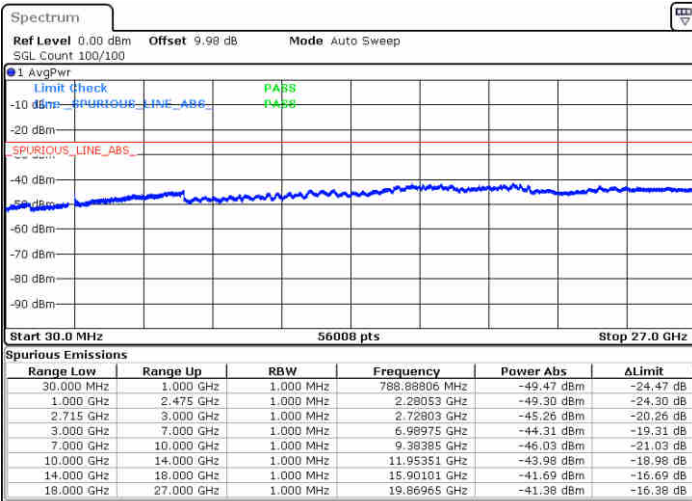


Date: 28 FEB 2020 22:36:52

Date: 28 FEB 2020 22:37:47

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 28 FEB 2020 22:38:41

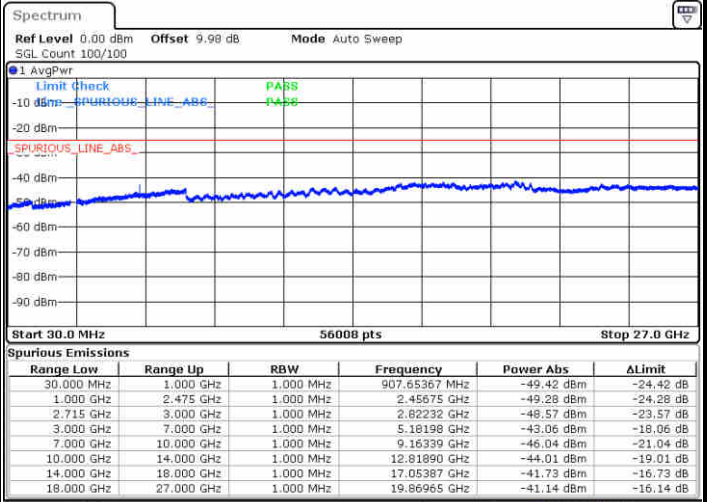
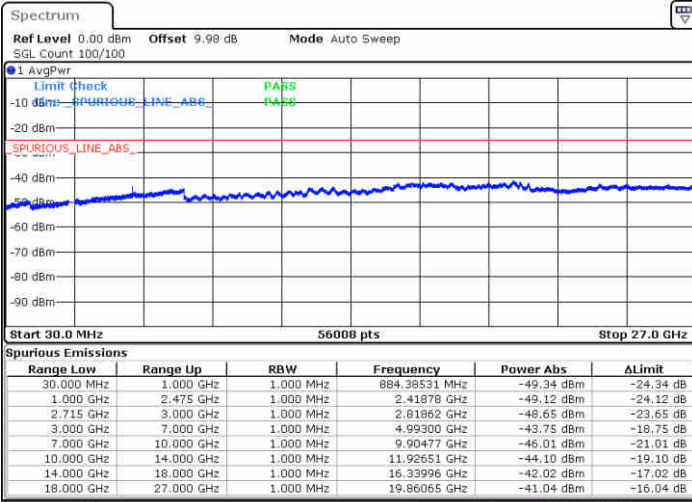
Date: 28 FEB 2020 22:39:36



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

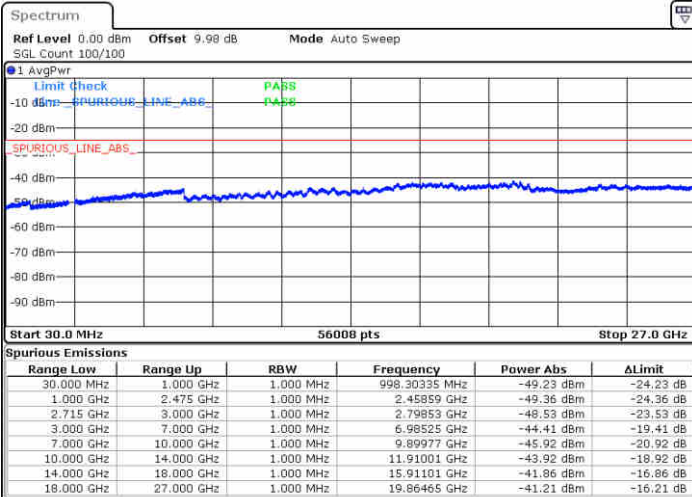
Middle Channel / 64QAM



Date: 28 FEB 2020 22:40:31

Date: 28 FEB 2020 22:41:25

Highest Channel / 64QAM



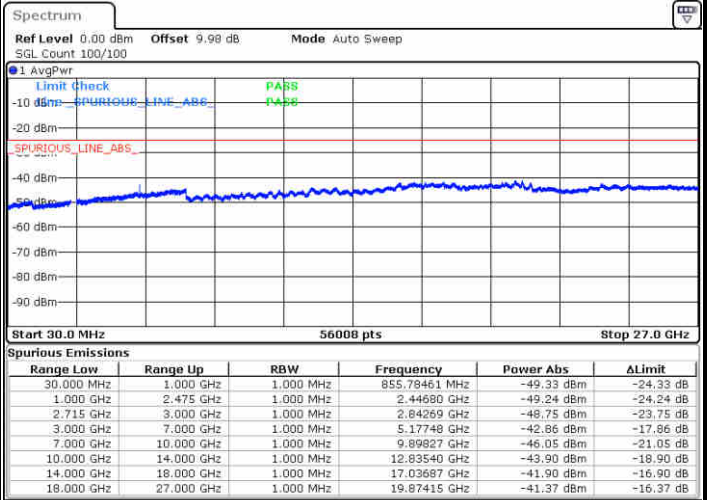
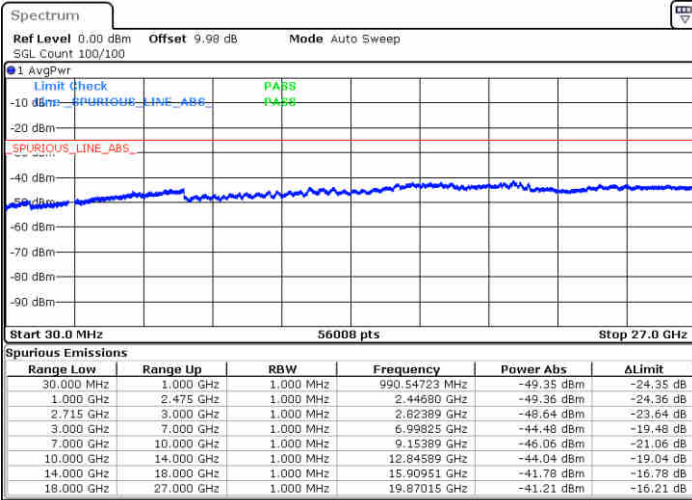
Date: 28 FEB 2020 22:42:20



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

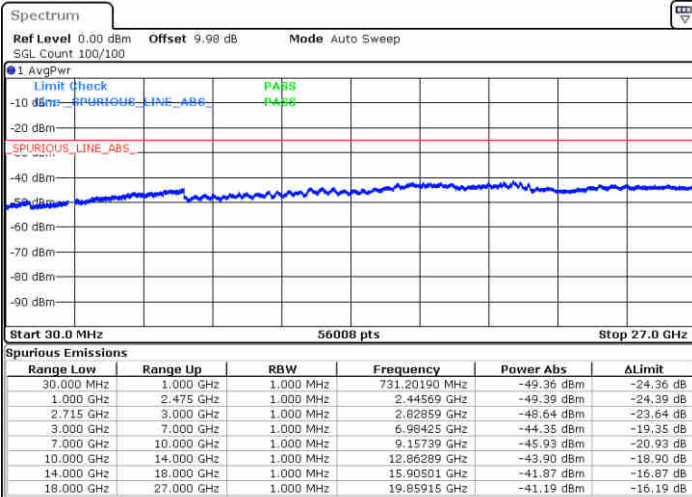
Middle Channel / 64QAM



Date: 28 FEB 2020 22:43:15

Date: 28 FEB 2020 22:44:09

Highest Channel / 64QAM



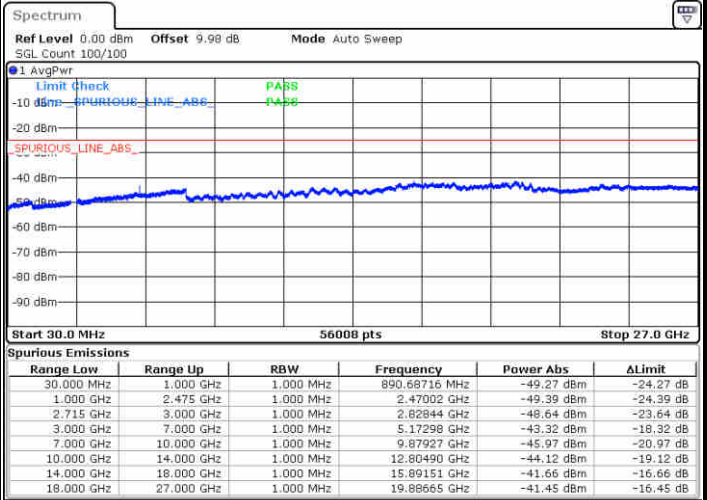
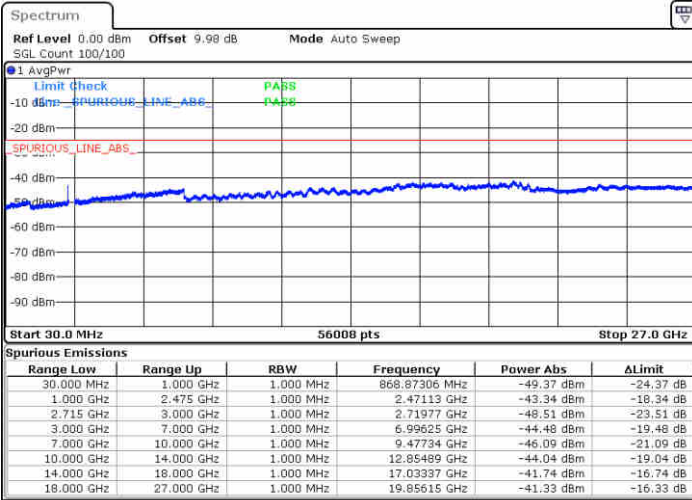
Date: 28 FEB 2020 22:45:04



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

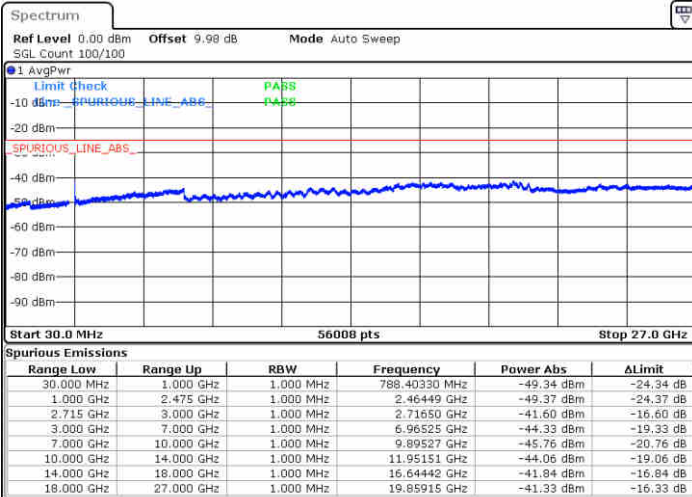
Middle Channel / 64QAM



Date: 28 FEB 2020 22:45:59

Date: 28 FEB 2020 22:46:54

Highest Channel / 64QAM



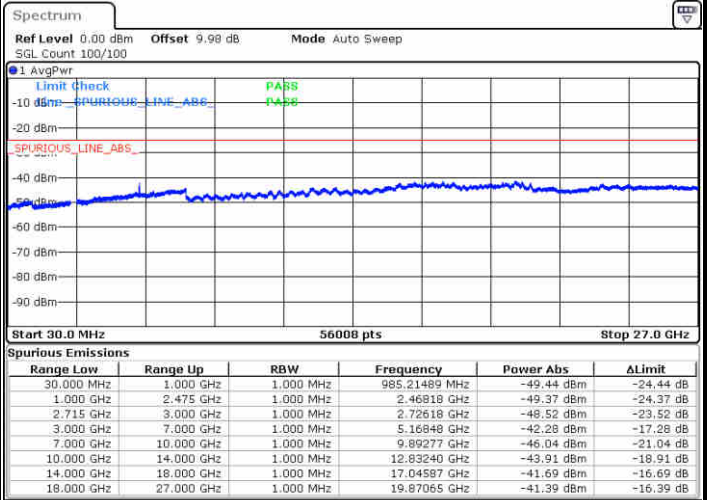
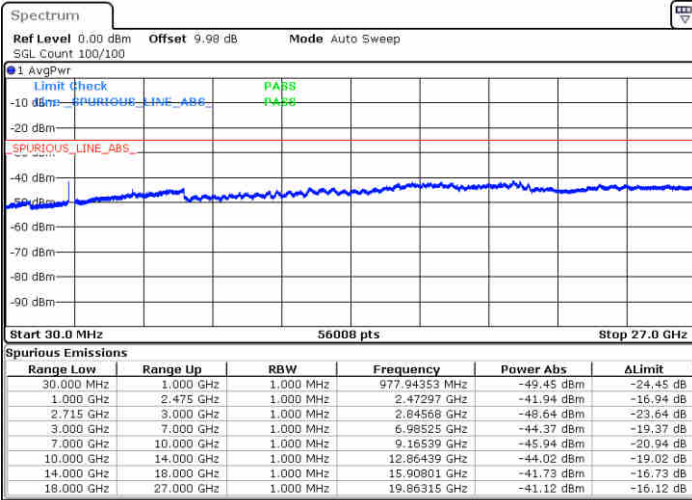
Date: 28 FEB 2020 22:47:48



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

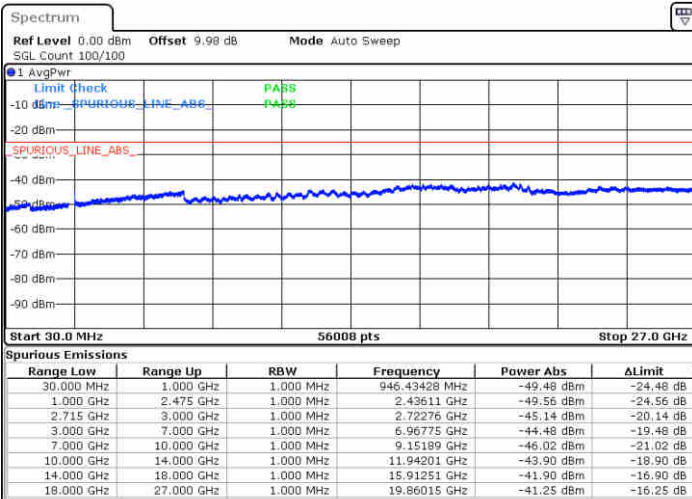
Middle Channel / 64QAM



Date: 28 FEB 2020 22:48:43

Date: 28 FEB 2020 22:49:38

Highest Channel / 64QAM



Date: 28 FEB 2020 22:50:33



### Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0014	

**Note:**

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.40 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 66

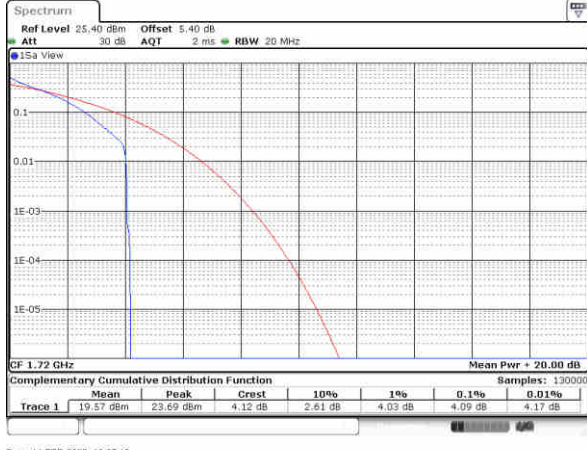
## Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.09	5.01	5.19	5.88	<b>PASS</b>
Middle CH	4.64	5.01	5.22	5.86	
Highest CH	4.12	4.96	4.81	5.88	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.13	5.83	-	-	<b>PASS</b>
Middle CH	5.65	5.86	-	-	
Highest CH	5.01	5.88	-	-	



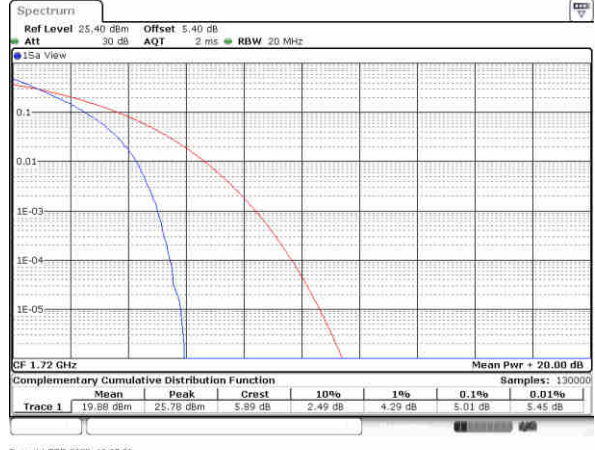
LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



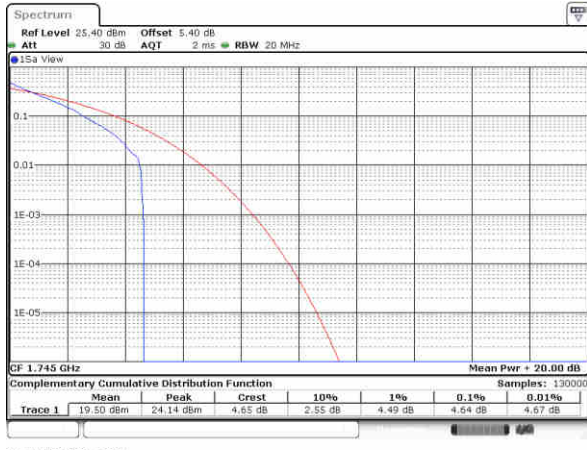
Date: 14 FEB 2020 18:27:12

Lowest Channel / Full RB



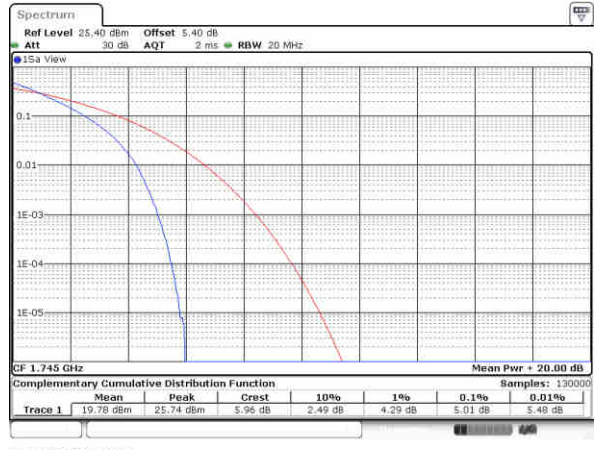
Date: 14 FEB 2020 18:27:58

Middle Channel / 1RB



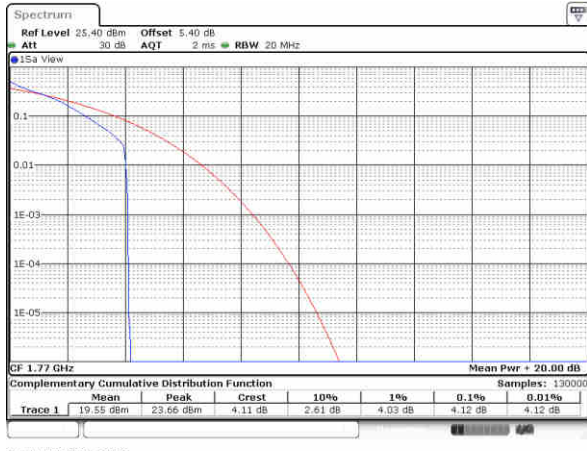
Date: 14 FEB 2020 18:29:11

Middle Channel / Full RB



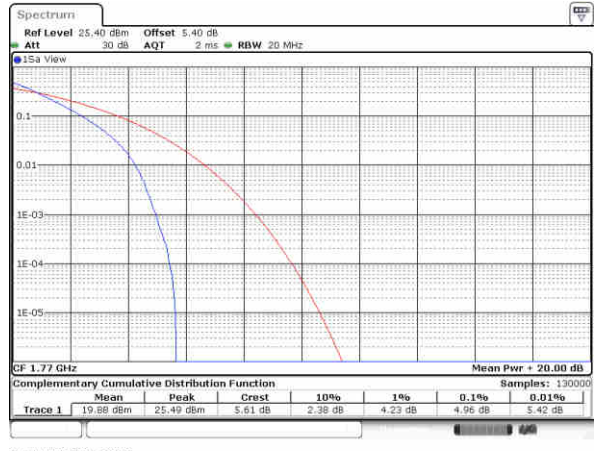
Date: 14 FEB 2020 18:29:56

Highest Channel / 1RB



Date: 14 FEB 2020 18:30:53

Highest Channel / Full RB



Date: 14 FEB 2020 18:31:33



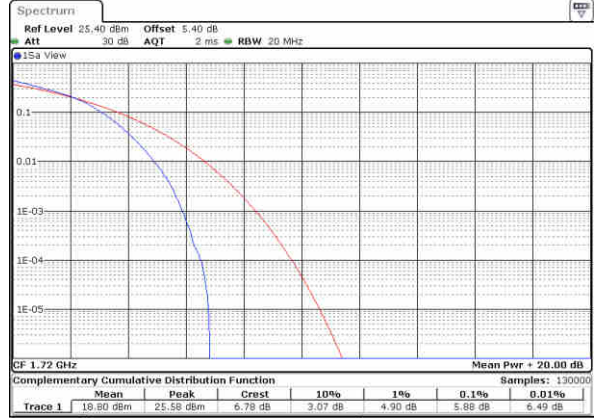
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 14 FEB 2020 18:27:25

Lowest Channel / Full RB



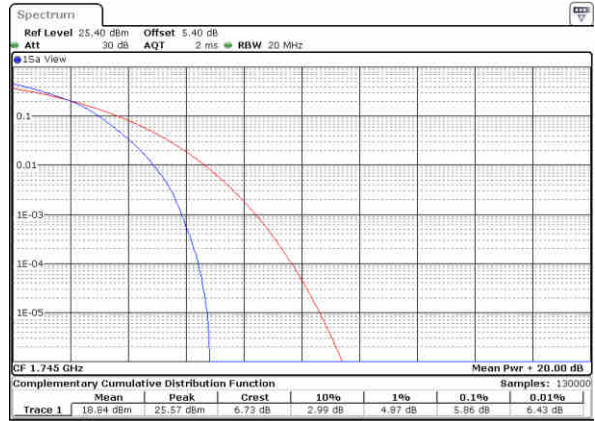
Date: 14 FEB 2020 18:28:09

Middle Channel / 1RB



Date: 14 FEB 2020 18:29:22

Middle Channel / Full RB



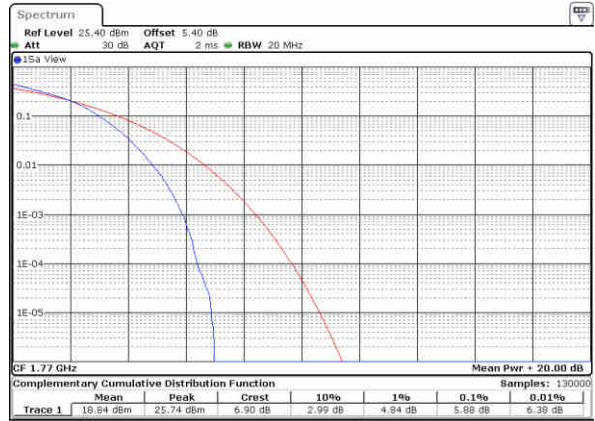
Date: 14 FEB 2020 18:30:12

Highest Channel / 1RB



Date: 14 FEB 2020 18:31:03

Highest Channel / Full RB



Date: 14 FEB 2020 18:31:44



LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



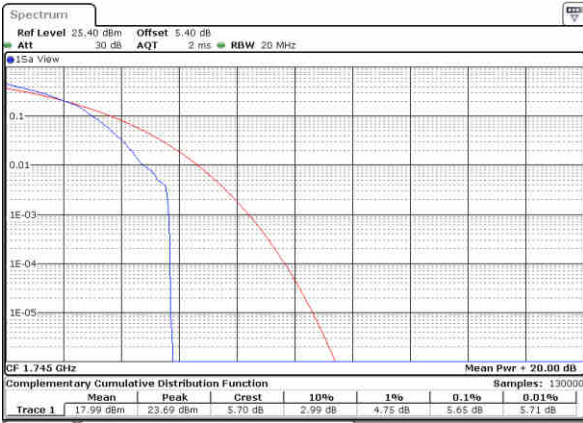
Date: 14 FEB 2020 18:27:37

Lowest Channel / Full RB



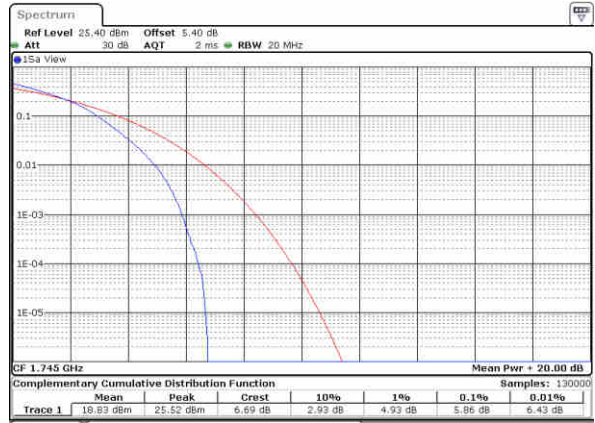
Date: 14 FEB 2020 18:28:23

Middle Channel / 1RB



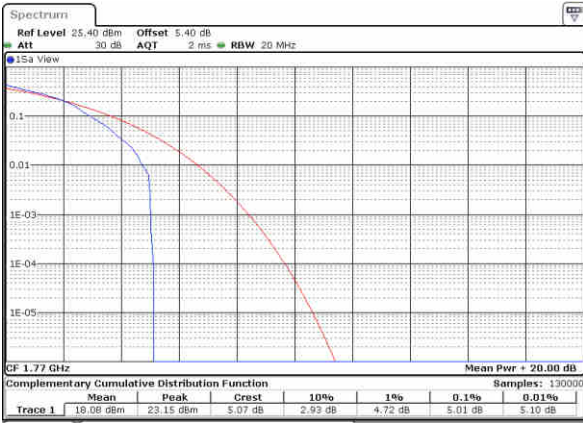
Date: 14 FEB 2020 18:29:31

Middle Channel / Full RB



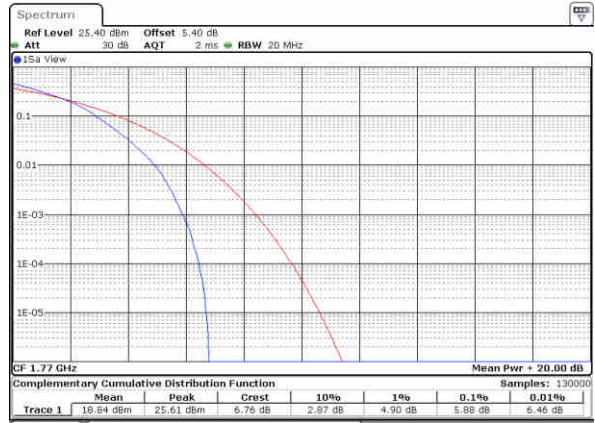
Date: 14 FEB 2020 18:30:22

Highest Channel / 1RB



Date: 14 FEB 2020 18:31:17

Highest Channel / Full RB



Date: 14 FEB 2020 18:31:55



26dB Bandwidth

Mode	LTE Band 66 : 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	1.26	1.28	3.03	2.99	4.87	4.94	9.81	9.75	14.24	14.57	20.26	20.22
Middle CH	1.30	1.25	3.02	3.07	4.98	4.94	9.95	9.93	14.54	14.51	20.22	20.18
Highest CH	1.28	1.26	3.02	3.02	4.95	4.97	9.87	9.65	14.30	14.75	20.38	20.30
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-
Lowest CH	1.31	-	3.02	-	4.91	-	9.95	-	14.39	-	20.14	-
Middle CH	1.29	-	3.05	-	4.94	-	9.95	-	14.15	-	20.10	-
Highest CH	1.26	-	3.00	-	4.89	-	9.73	-	14.54	-	20.06	-