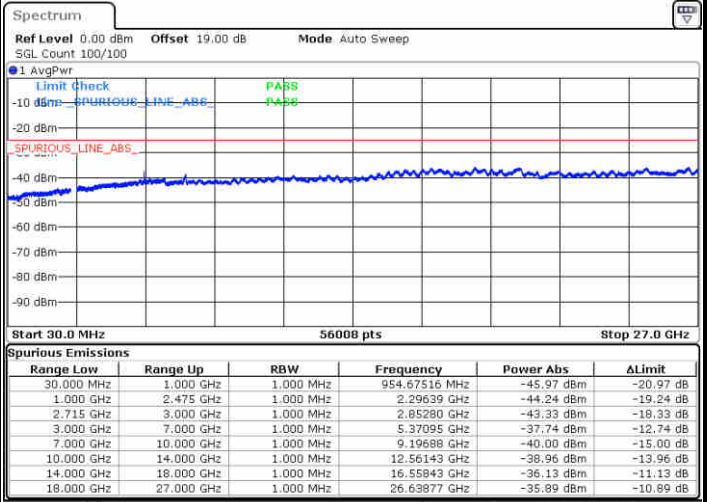
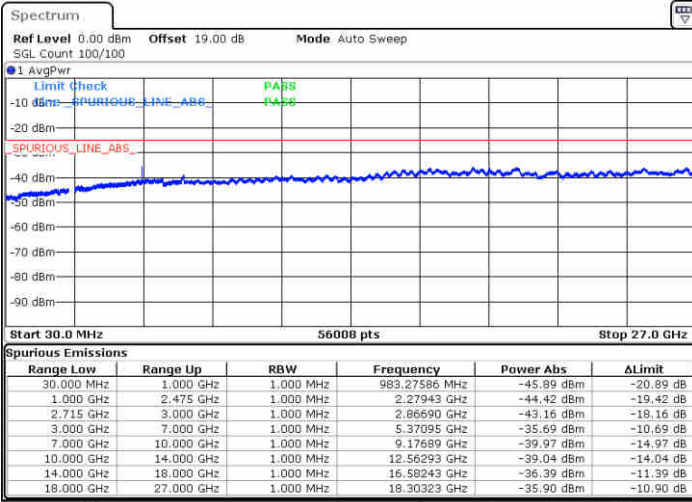




LTE Band 41 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



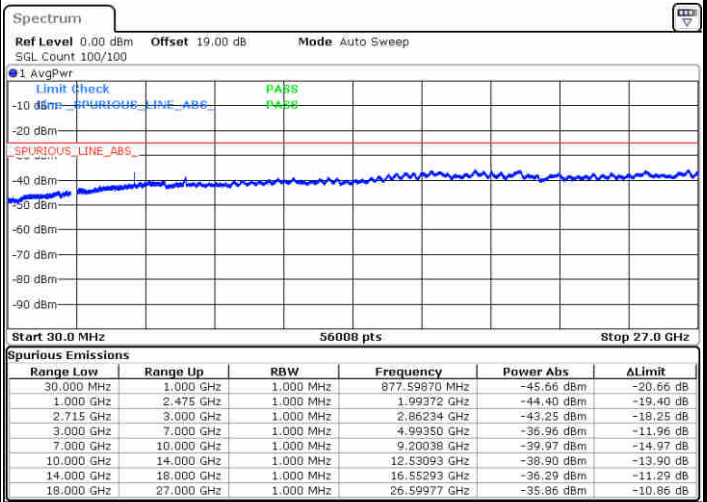
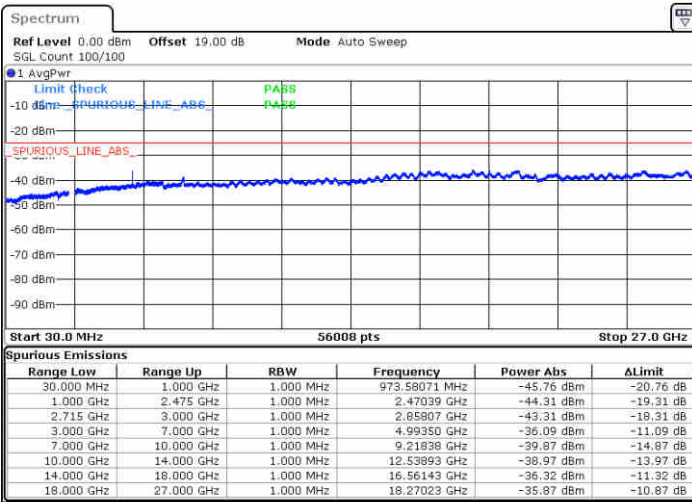
Date: 13.DEC.2019 11:56:10

Date: 13.DEC.2019 11:56:59

LTE Band 41 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 13.DEC.2019 12:00:41

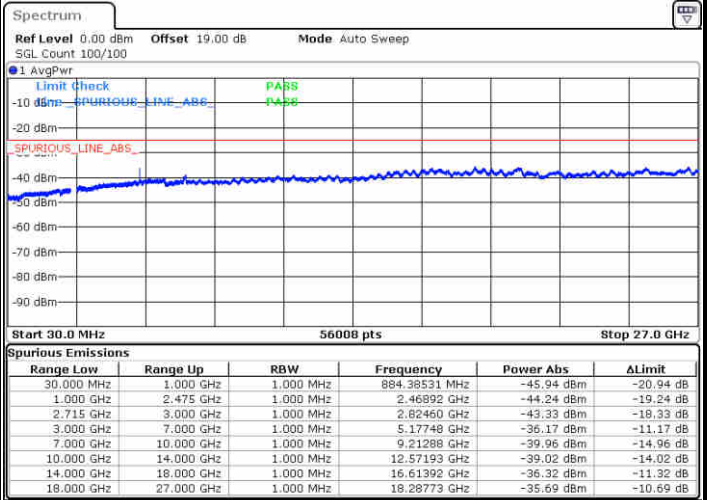
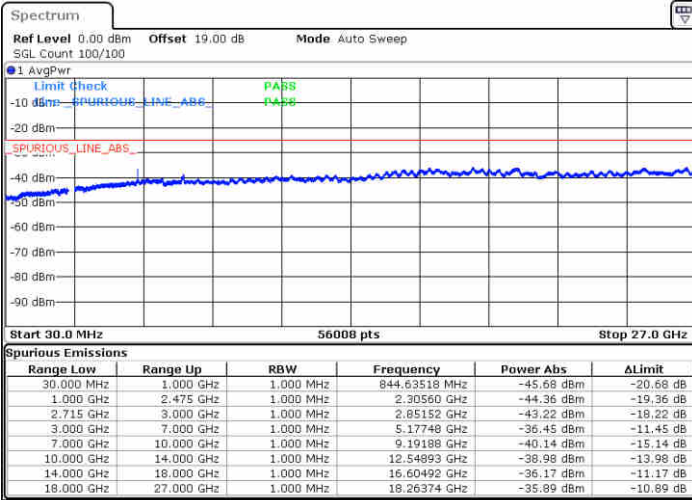
Date: 13.DEC.2019 11:59:32



LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

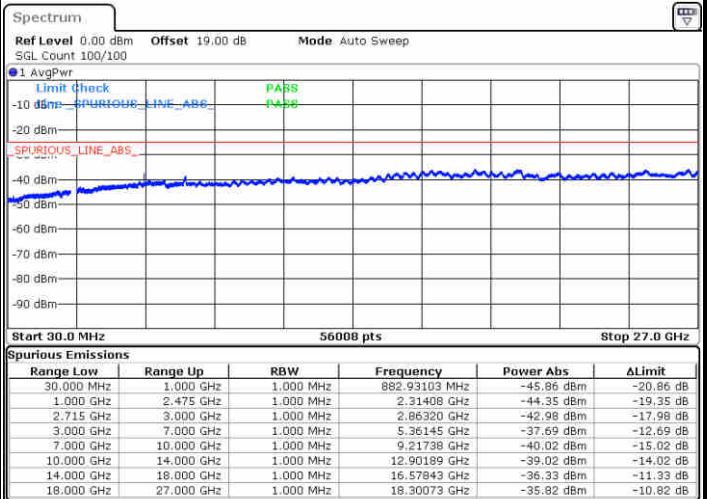
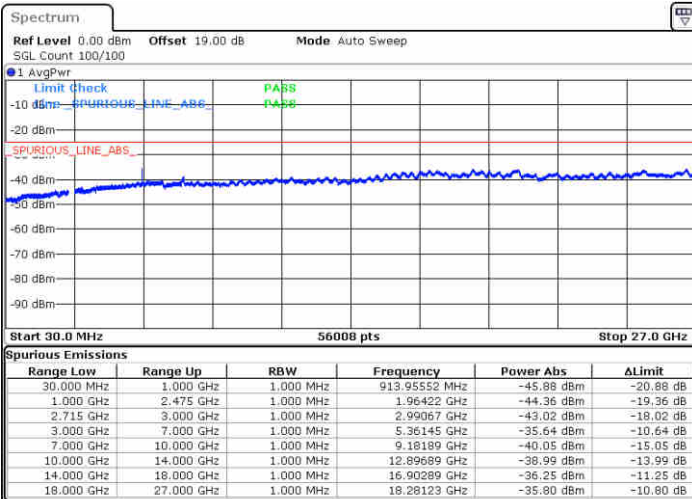


Date: 13.DEC.2019 12:01:52

Date: 13.DEC.2019 12:02:58

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.DEC.2019 12:06:48

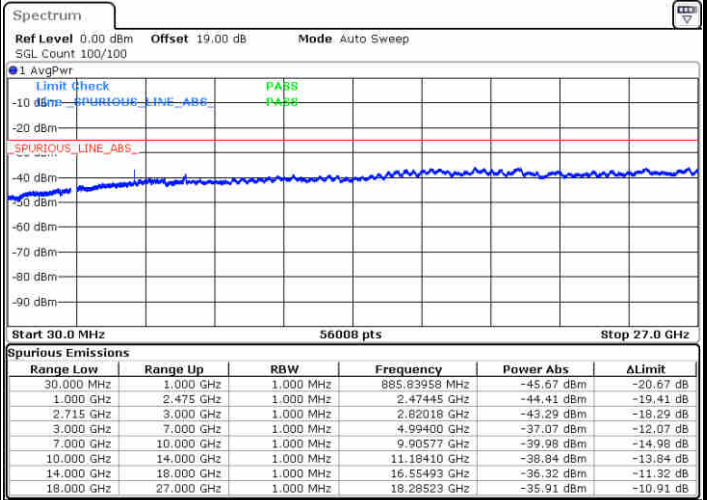
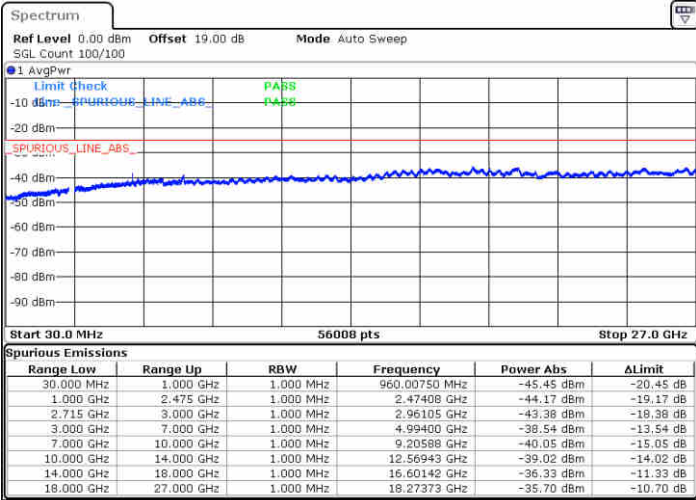
Date: 13.DEC.2019 12:05:59



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

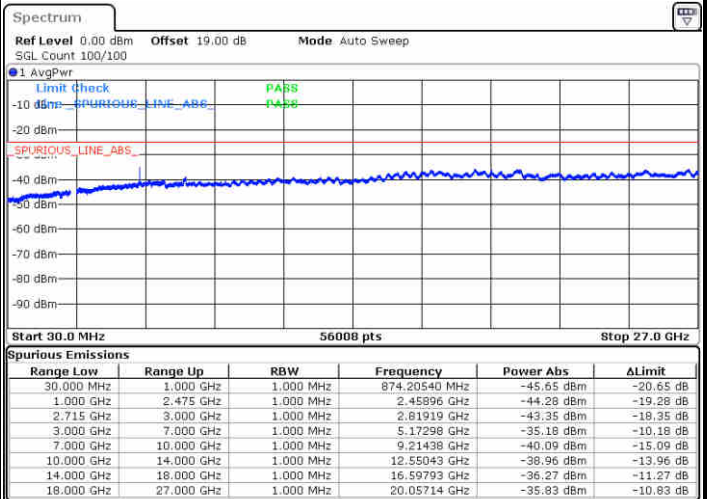
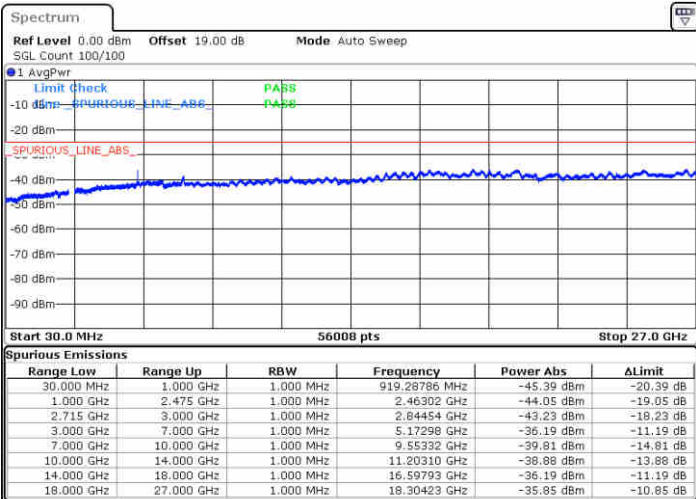


Date: 13.DEC.2019 12:14:51

Date: 13.DEC.2019 12:15:51

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 13.DEC.2019 12:23:07

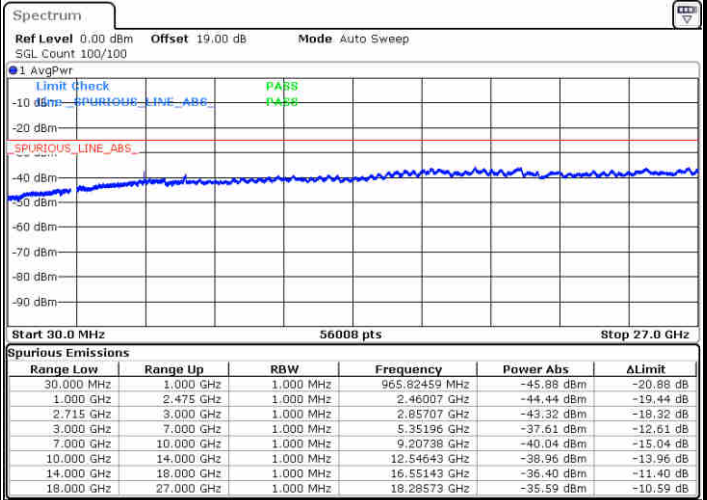
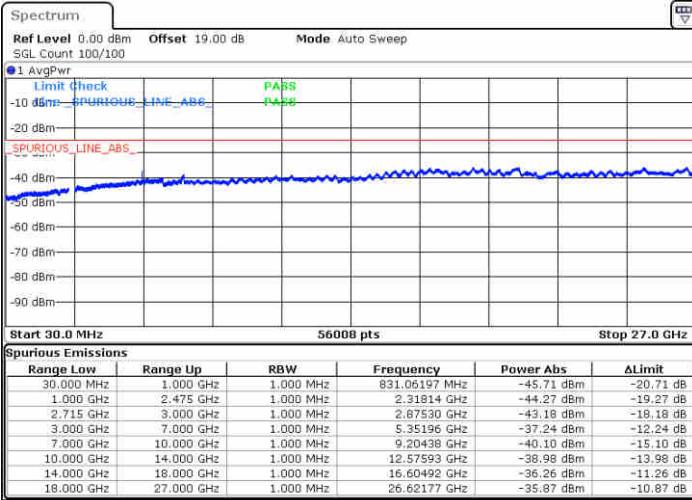
Date: 13.DEC.2019 12:22:06



LTE Band 41 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



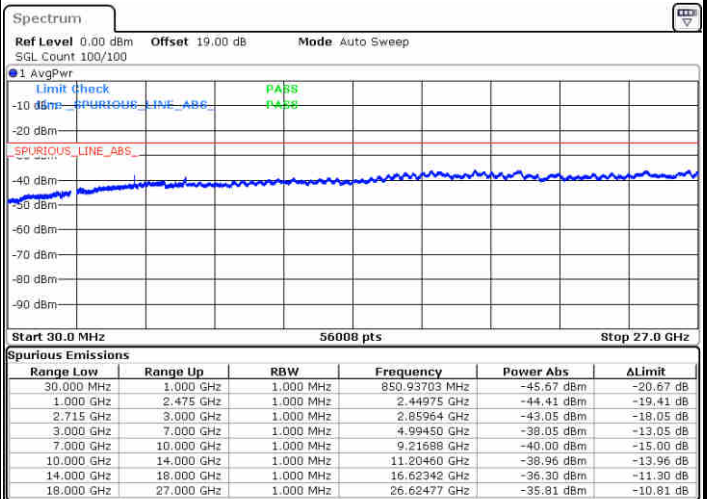
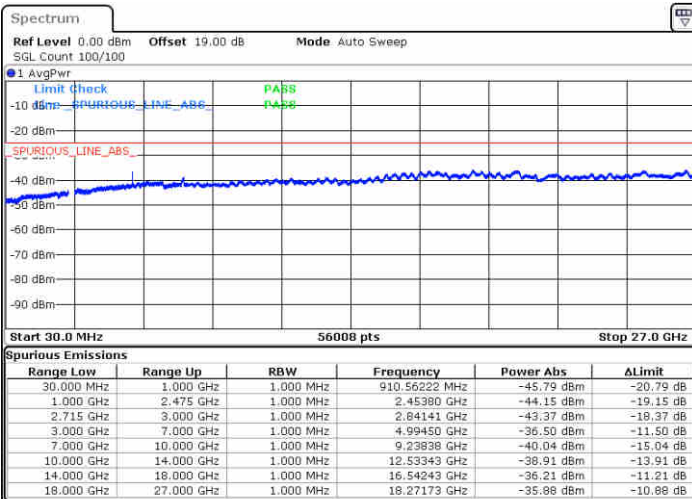
Date: 13.DEC.2019 12:24:05

Date: 13.DEC.2019 12:24:55

LTE Band 41 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 13.DEC.2019 12:30:04

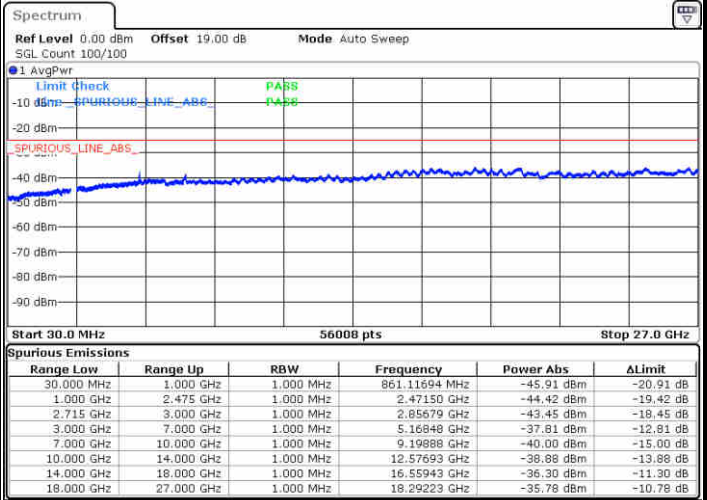
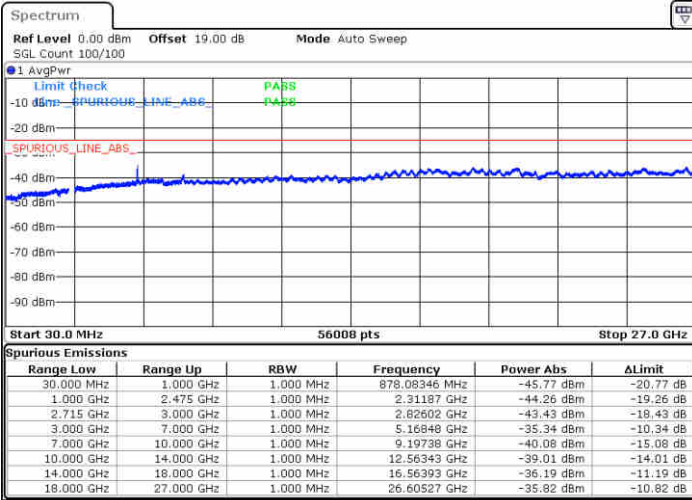
Date: 13.DEC.2019 12:30:54



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

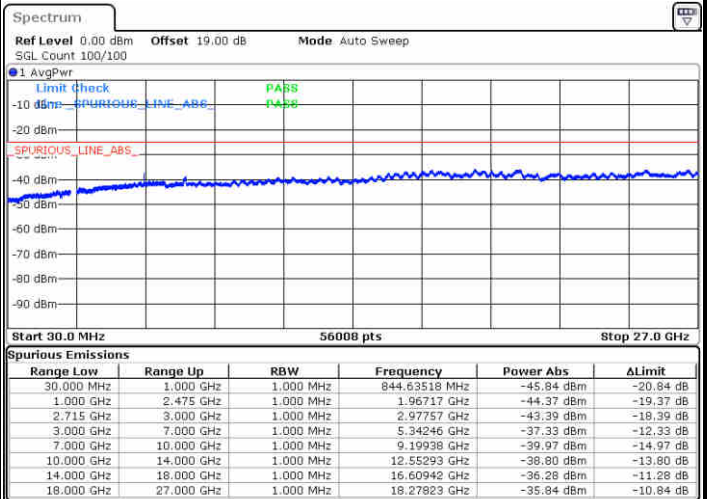
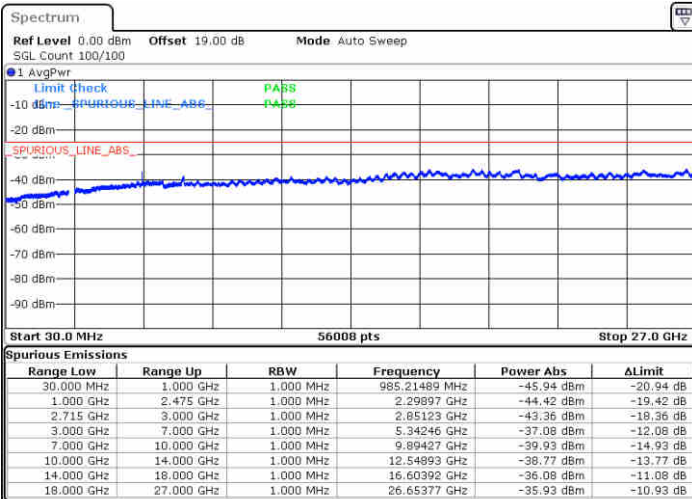


Date: 13.DEC.2019 12:36:11

Date: 13.DEC.2019 12:37:02

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.DEC.2019 12:35:18

Date: 13.DEC.2019 12:34:27

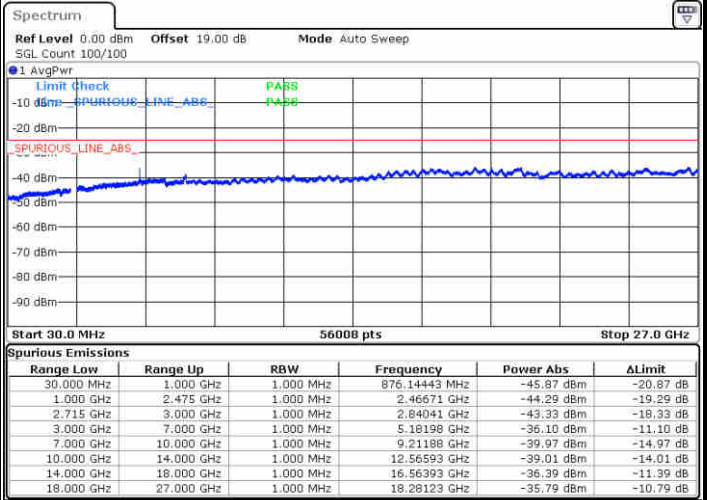
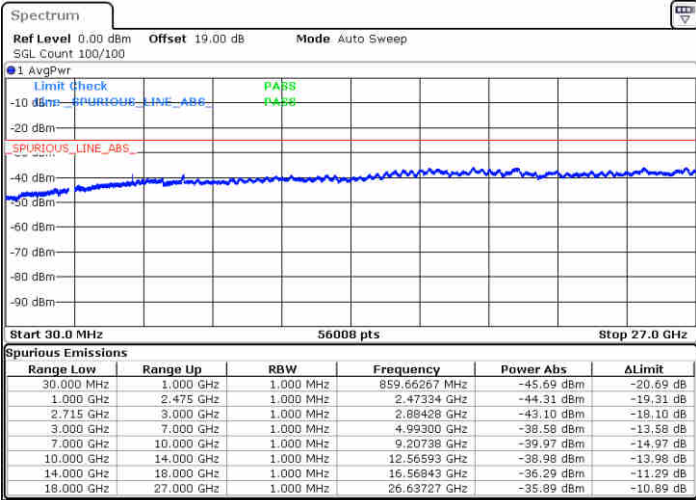




LTE Band 41 / 5MHz

Lowest Channel / 64QAM

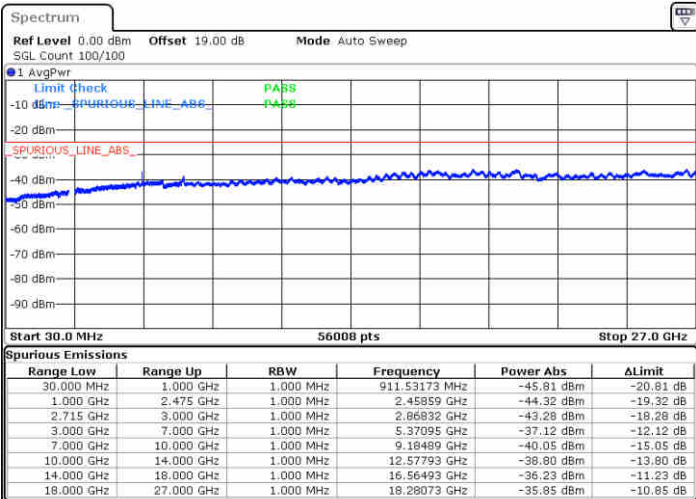
Middle Channel / 64QAM



Date: 13.DEC.2019 11:52:41

Date: 13.DEC.2019 11:53:39

Highest Channel / 64QAM



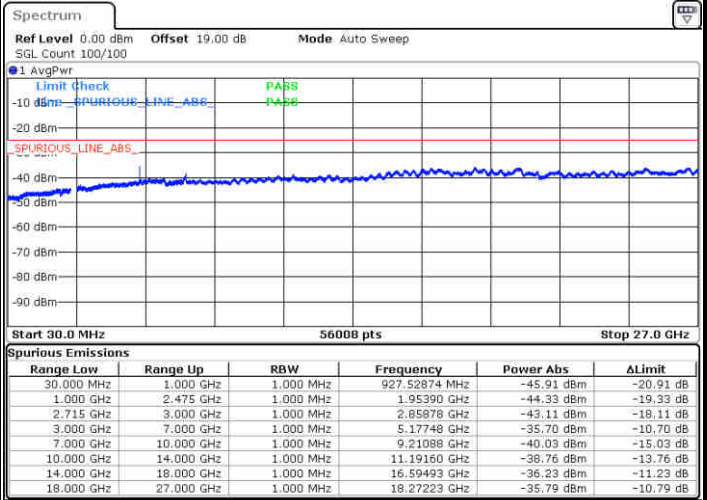
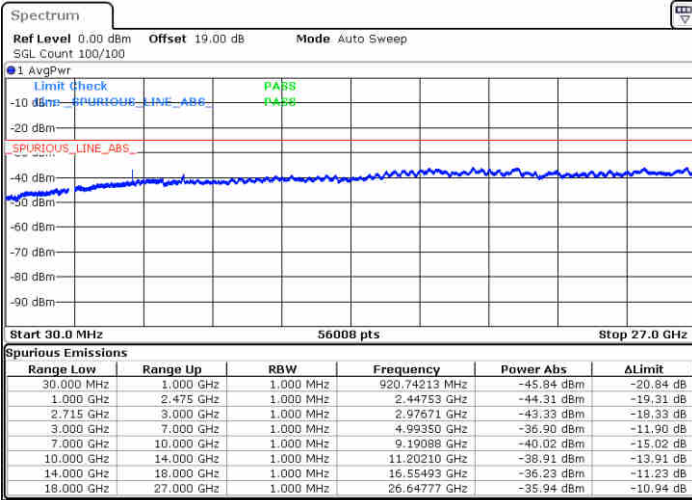
Date: 13.DEC.2019 11:57:49



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

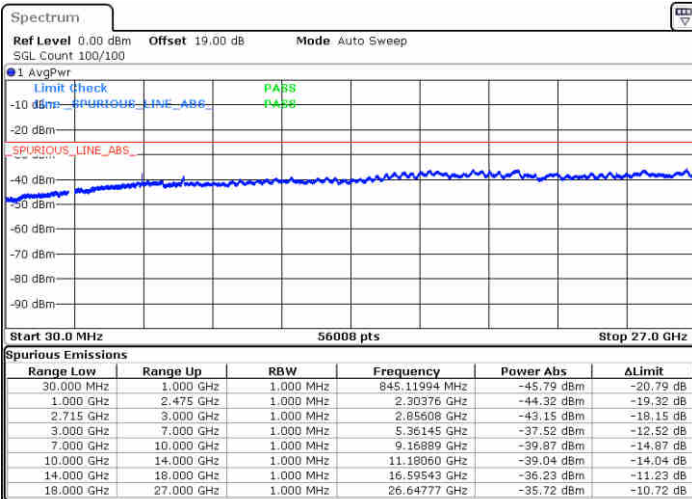
Middle Channel / 64QAM



Date: 13.DEC.2019 11:58:42

Date: 13.DEC.2019 12:04:08

Highest Channel / 64QAM



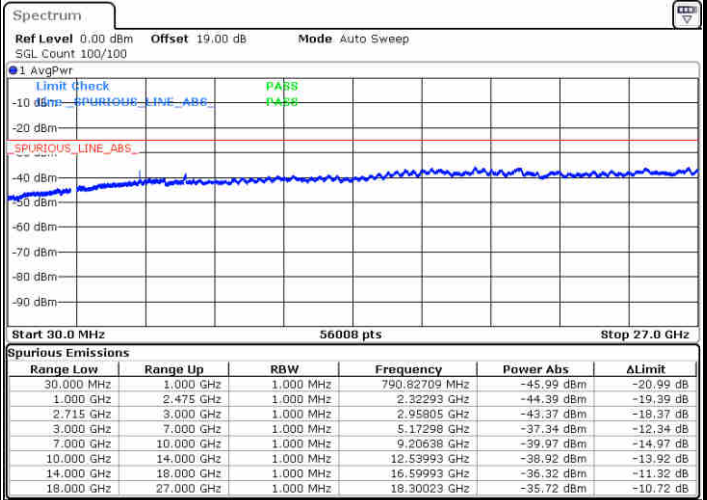
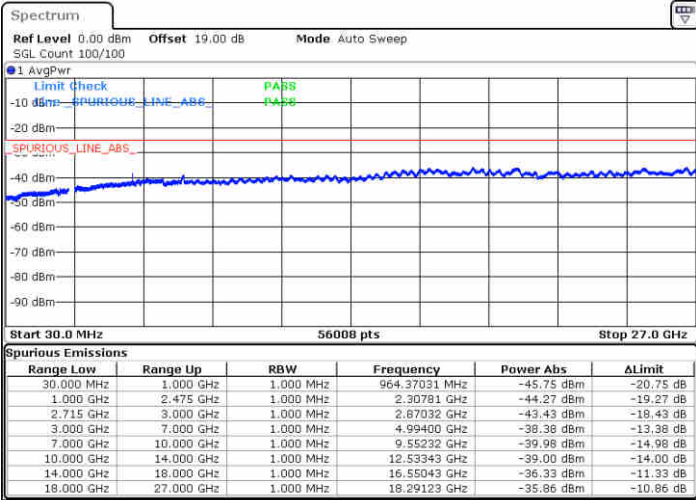
Date: 13.DEC.2019 12:05:07



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

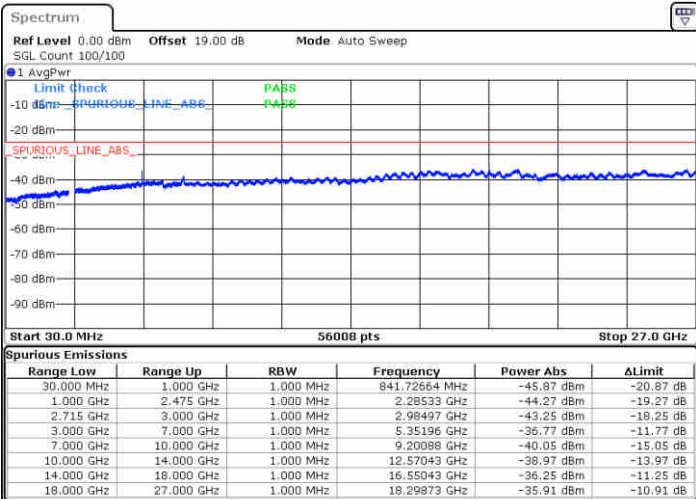
Middle Channel / 64QAM



Date: 13.DEC.2019 12:16:43

Date: 13.DEC.2019 12:21:04

Highest Channel / 64QAM



Date: 13.DEC.2019 12:25:47

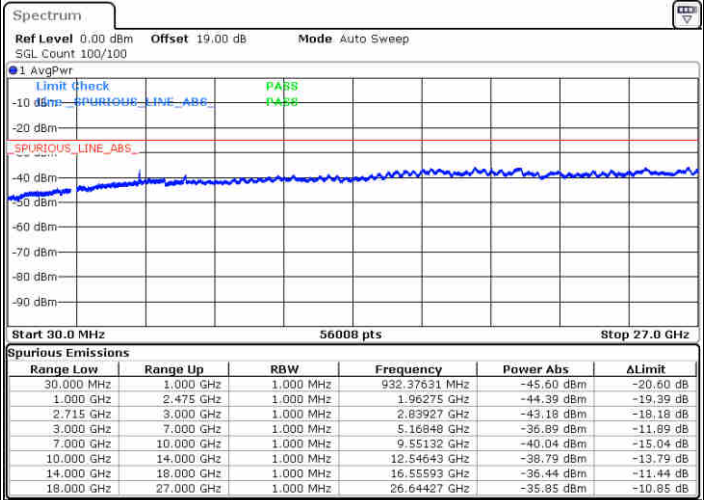
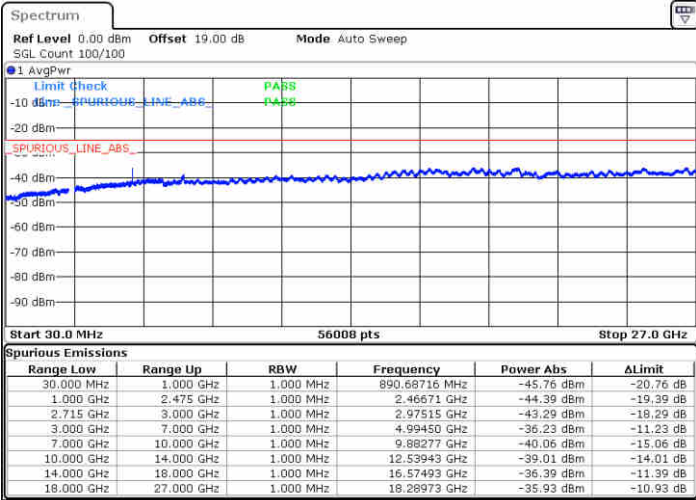




LTE Band 41 / 20MHz

Lowest Channel / 64QAM

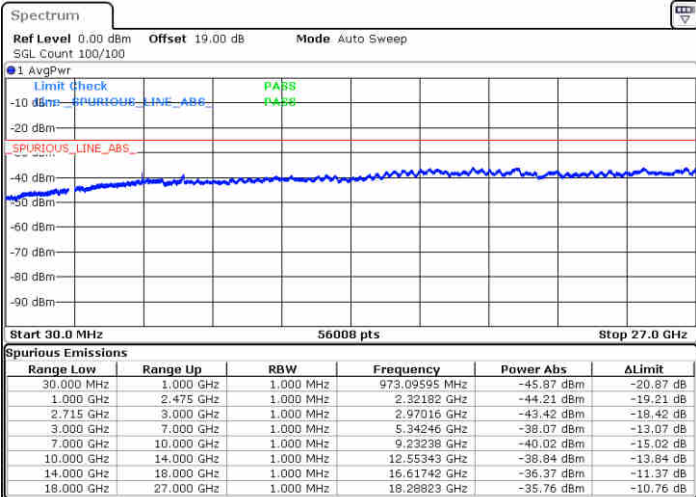
Middle Channel / 64QAM



Date: 13.DEC.2019 12:31:44

Date: 13.DEC.2019 12:32:33

Highest Channel / 64QAM



Date: 13.DEC.2019 12:33:31



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	0.0004	PASS
40	Normal Voltage	0.0067	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0067	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 71

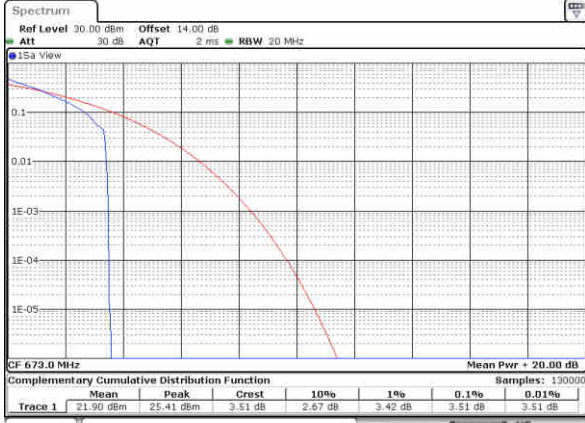
## Peak-to-Average Ratio

Mode	LTE Band 71 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.93	5.22	5.94	<b>PASS</b>
Middle CH	3.54	4.99	5.25	5.88	
Highest CH	3.45	4.93	5.16	5.94	
Mode	LTE Band 71 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.28	5.91	-	-	<b>PASS</b>
Middle CH	5.19	5.91	-	-	
Highest CH	5.25	5.94	-	-	



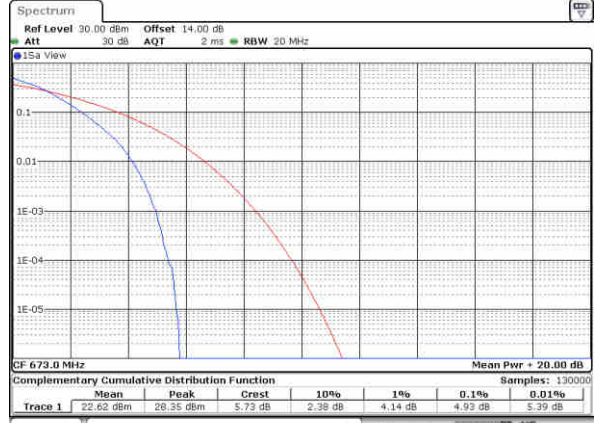
LTE Band 71 / 20MHz / QPSK

Lowest Channel / 1RB



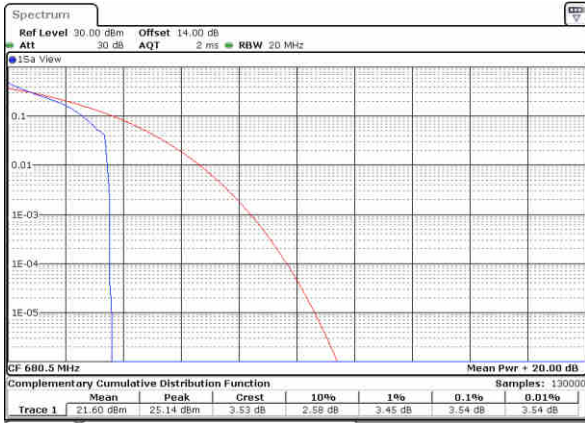
Date: 1,DEC,2019 09:29:11

Lowest Channel / Full RB



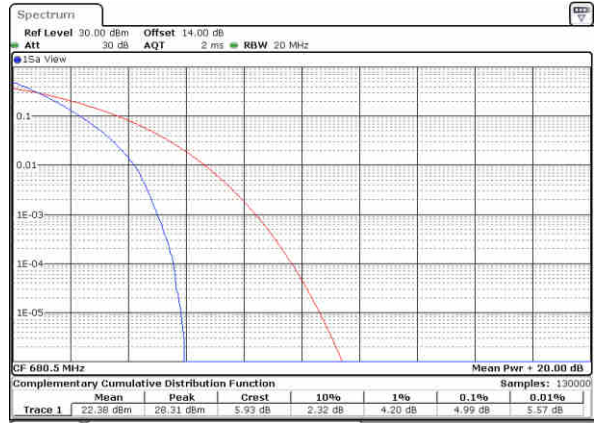
Date: 1,DEC,2019 09:41:52

Middle Channel / 1RB



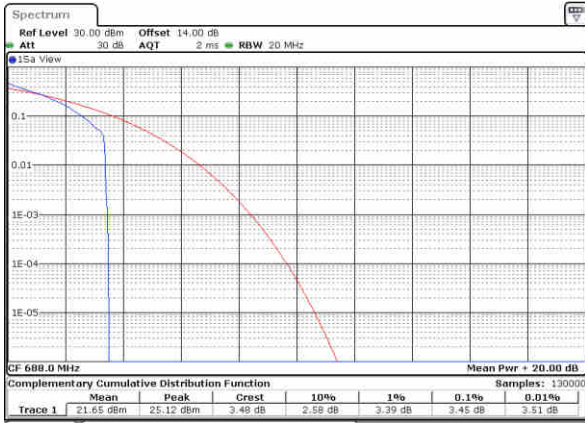
Date: 1,DEC,2019 09:57:15

Middle Channel / Full RB



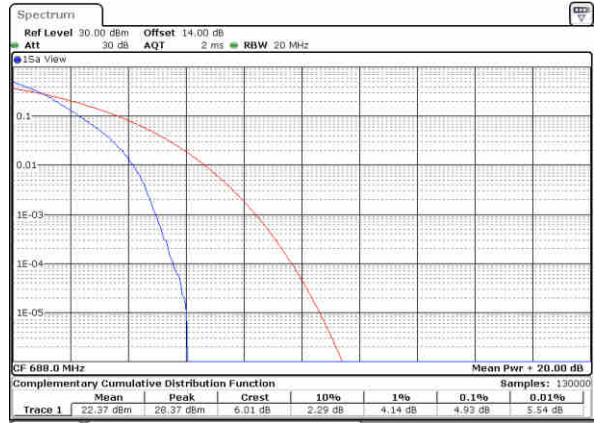
Date: 1,DEC,2019 09:57:47

Highest Channel / 1RB



Date: 1,DEC,2019 09:58:43

Highest Channel / Full RB

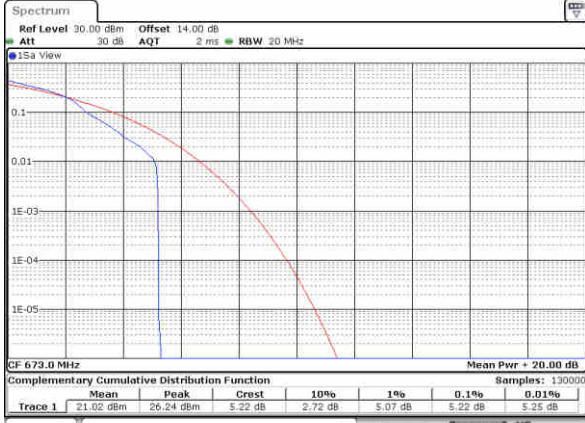


Date: 1,DEC,2019 09:43:58



LTE Band 71 / 20MHz / 16QAM

Lowest Channel / 1RB



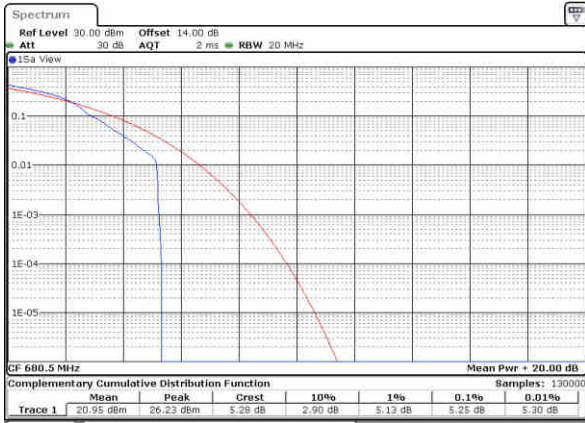
Date: 1,DEC,2019 09:31:16

Lowest Channel / Full RB



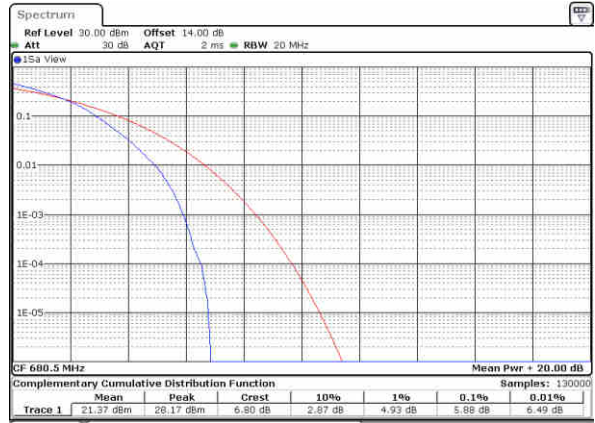
Date: 1,DEC,2019 09:40:52

Middle Channel / 1RB



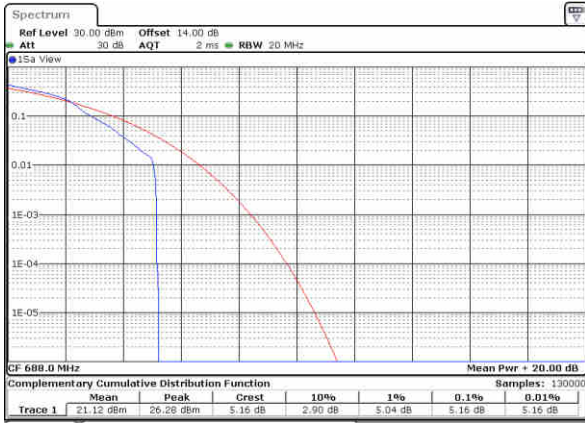
Date: 1,DEC,2019 09:57:00

Middle Channel / Full RB



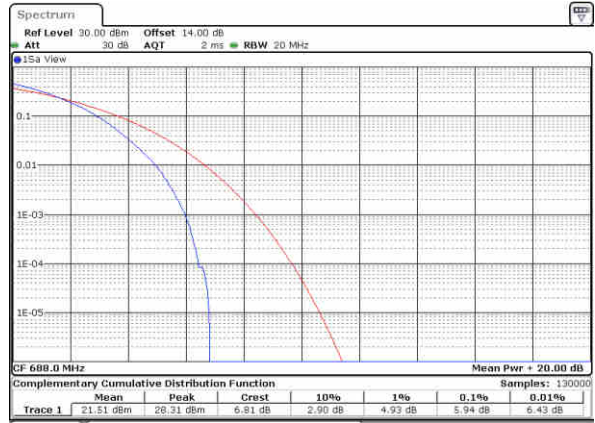
Date: 1,DEC,2019 09:58:02

Highest Channel / 1RB



Date: 1,DEC,2019 09:48:47

Highest Channel / Full RB



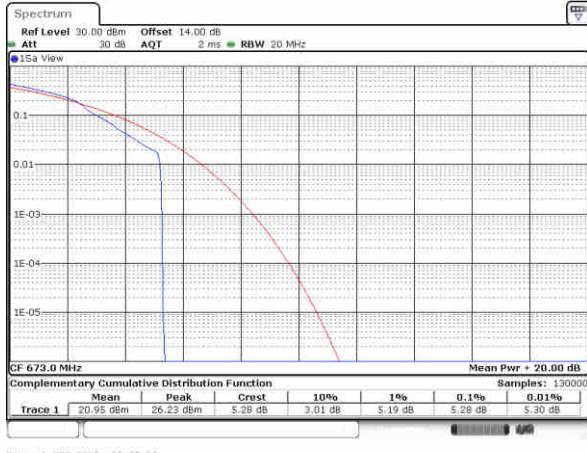
Date: 1,DEC,2019 09:45:19





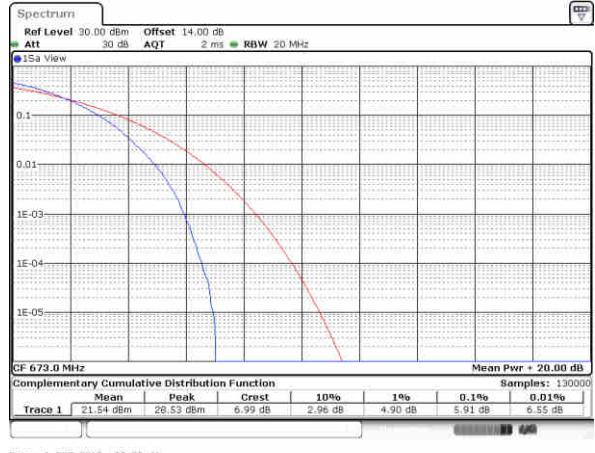
LTE Band 71 / 20MHz / 64QAM

Lowest Channel / 1RB



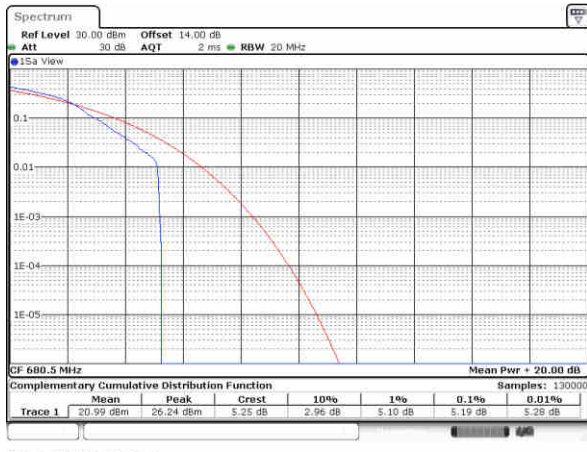
Date: 1.DEC.2019 09:33:19

Lowest Channel / Full RB



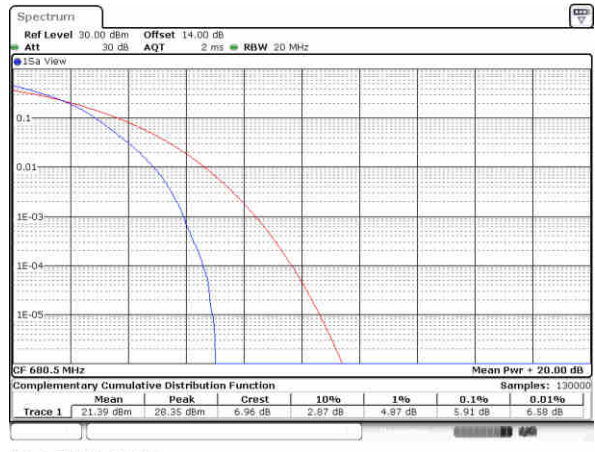
Date: 1.DEC.2019 09:35:41

Middle Channel / 1RB



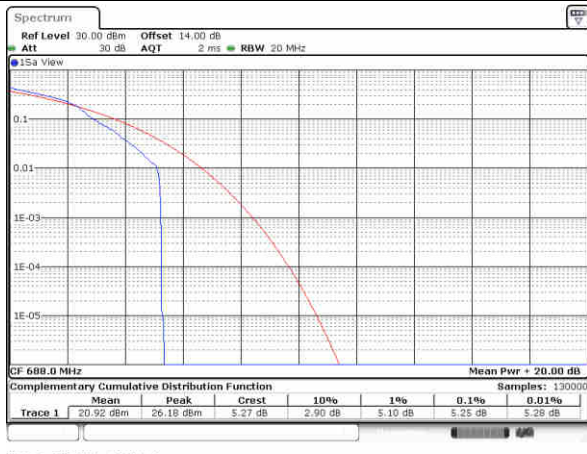
Date: 1.DEC.2019 09:36:41

Middle Channel / Full RB



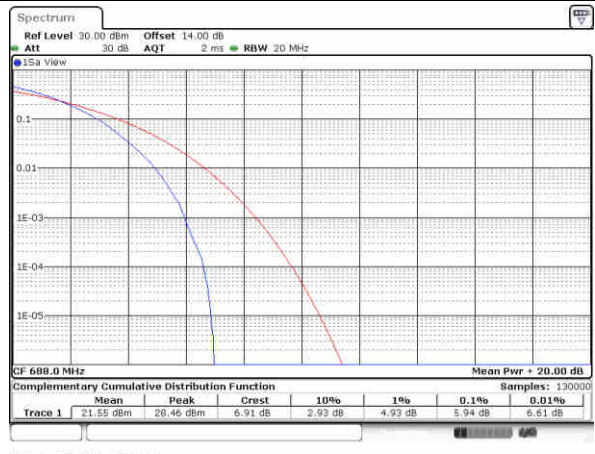
Date: 1.DEC.2019 09:38:17

Highest Channel / 1RB



Date: 1.DEC.2019 09:47:49

Highest Channel / Full RB



Date: 1.DEC.2019 09:46:37



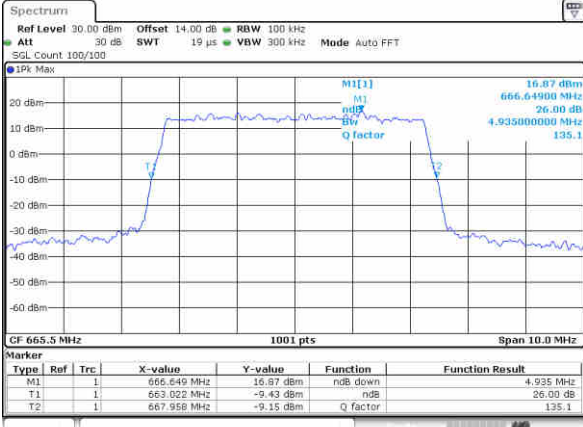
**26dB Bandwidth**

Mode	LTE Band 71 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.94	4.85	9.65	9.67	14.66	14.57	18.78	19.14
Middle CH	4.98	4.88	9.91	9.75	14.54	14.39	19.14	19.14
Highest CH	4.98	4.92	9.67	9.87	14.30	14.48	19.18	19.10
Mode	LTE Band 71 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.95		9.71		14.21		18.62	
Middle CH	4.90		9.95		14.18		19.06	
Highest CH	4.86		9.89		14.36		18.78	



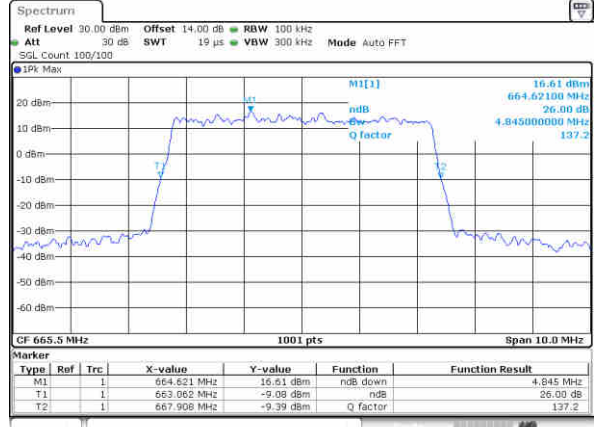
LTE Band 71

Lowest Channel / 5MHz / QPSK



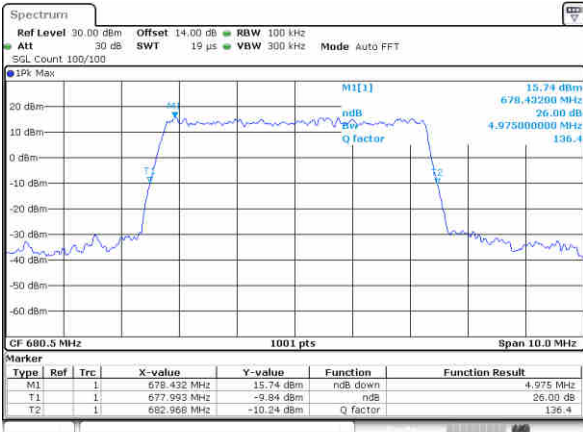
Date: 1,DEC,2019 08:06:31

Lowest Channel / 5MHz / 16QAM



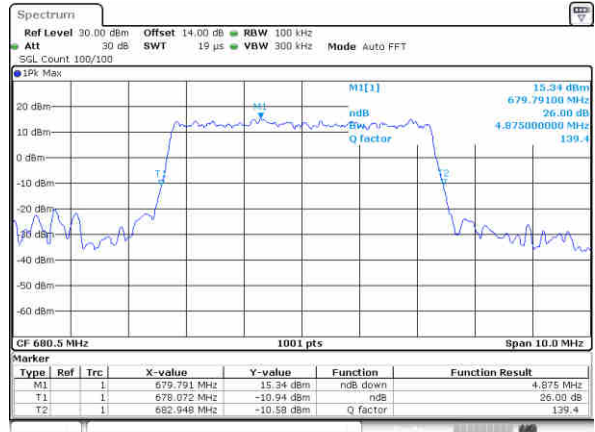
Date: 1,DEC,2019 08:09:28

Middle Channel / 5MHz / QPSK



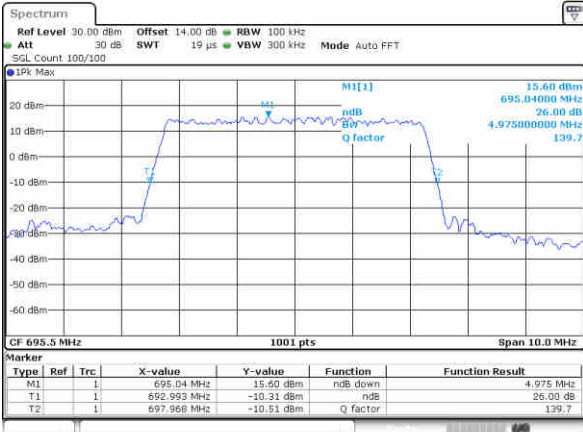
Date: 1,DEC,2019 07:48:21

Middle Channel / 5MHz / 16QAM



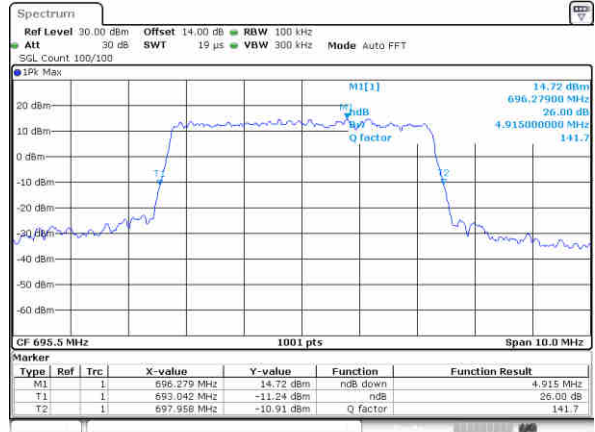
Date: 1,DEC,2019 07:49:06

Highest Channel / 5MHz / QPSK



Date: 1,DEC,2019 08:12:10

Highest Channel / 5MHz / 16QAM

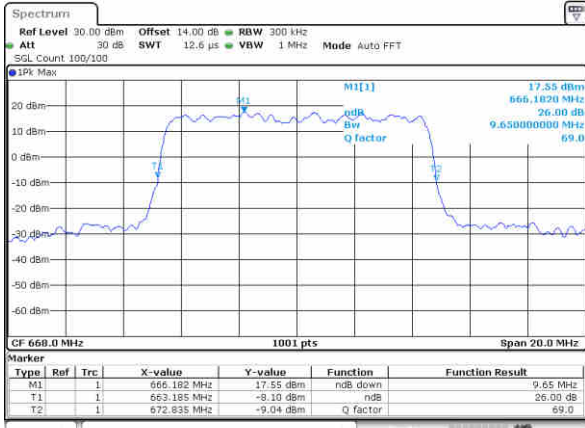


Date: 1,DEC,2019 08:12:23



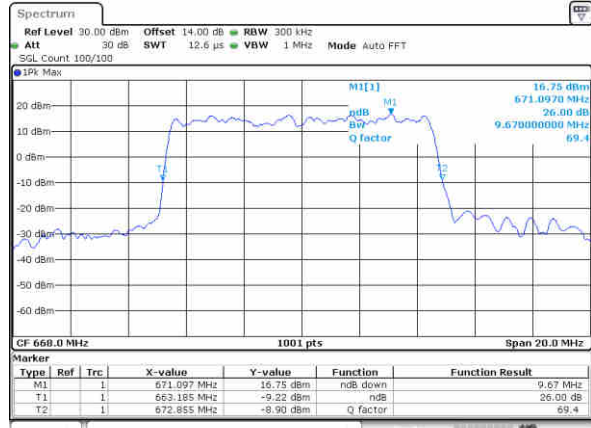
LTE Band 71

Lowest Channel / 10MHz / QPSK



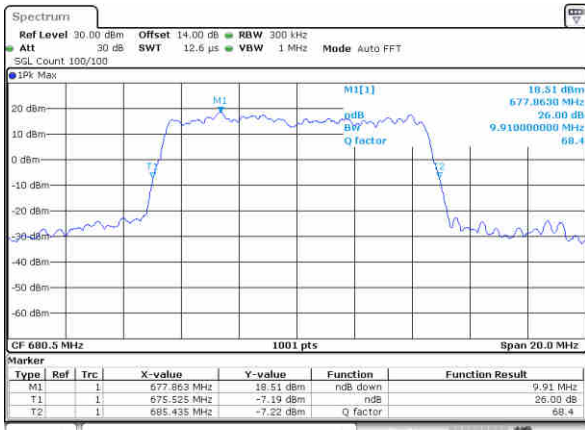
Date: 1,DEC,2019 08:44:35

Lowest Channel / 10MHz / 16QAM



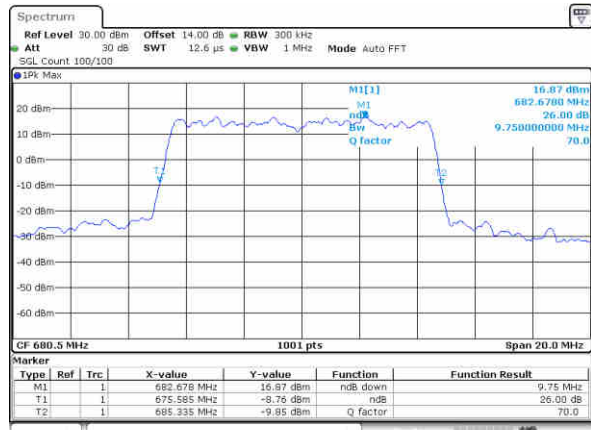
Date: 1,DEC,2019 08:44:36

Middle Channel / 10MHz / QPSK



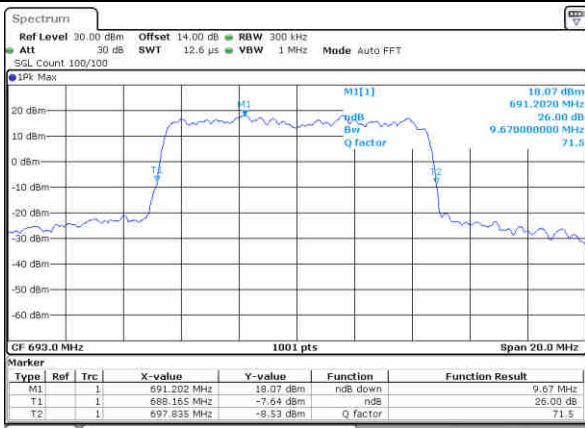
Date: 1,DEC,2019 08:42:05

Middle Channel / 10MHz / 16QAM



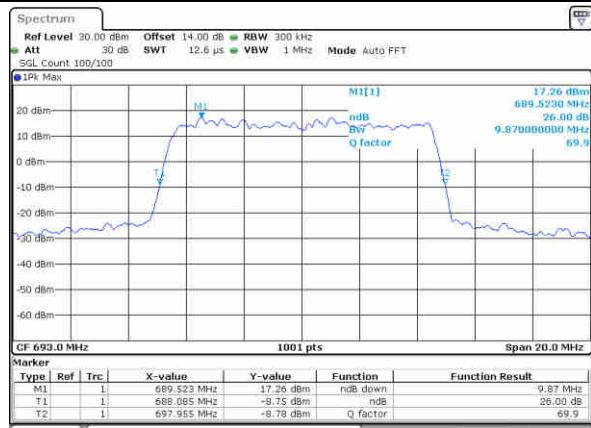
Date: 1,DEC,2019 08:43:01

Highest Channel / 10MHz / QPSK



Date: 1,DEC,2019 08:44:40

Highest Channel / 10MHz / 16QAM

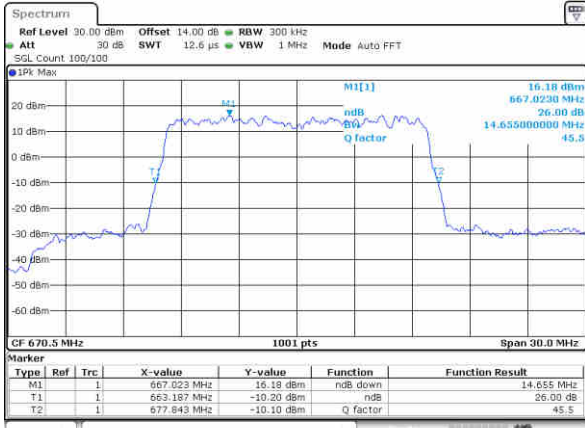


Date: 1,DEC,2019 08:44:56



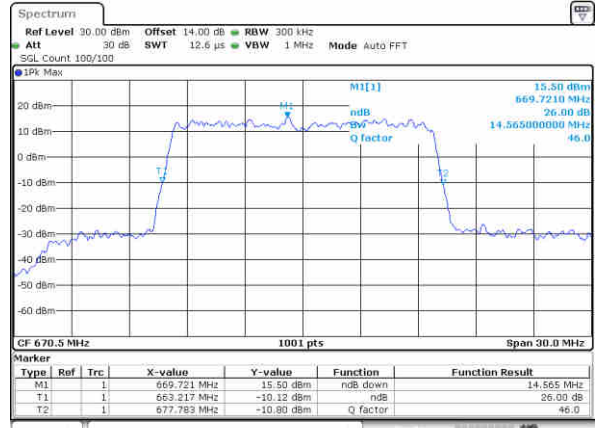
LTE Band 71

Lowest Channel / 15MHz / QPSK



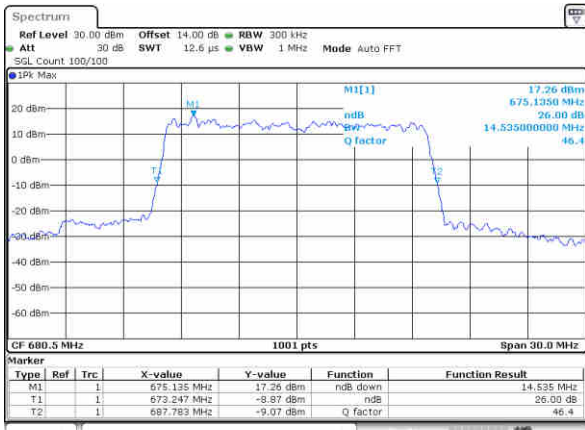
Date: 1,DEC,2019 09:11:36

Lowest Channel / 15MHz / 16QAM



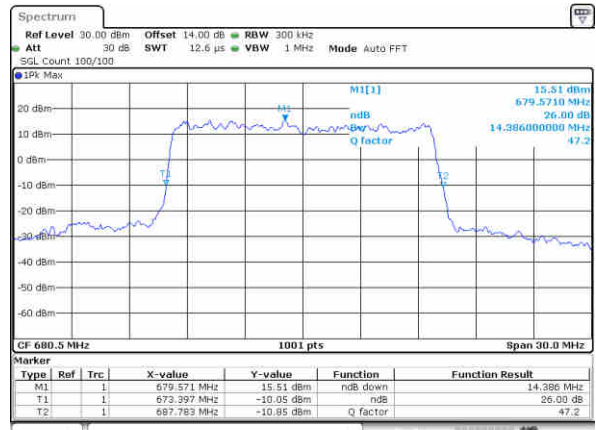
Date: 1,DEC,2019 09:11:23

Middle Channel / 15MHz / QPSK



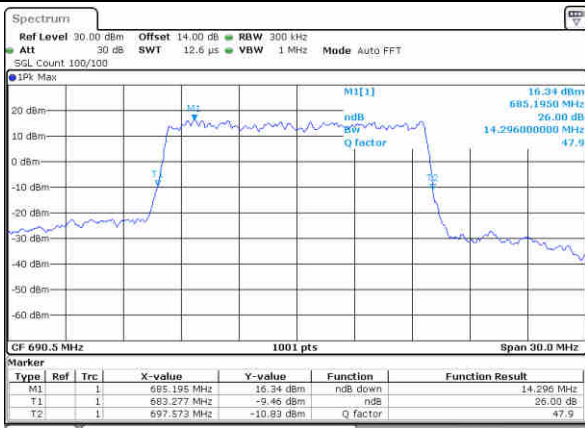
Date: 1,DEC,2019 09:15:33

Middle Channel / 15MHz / 16QAM



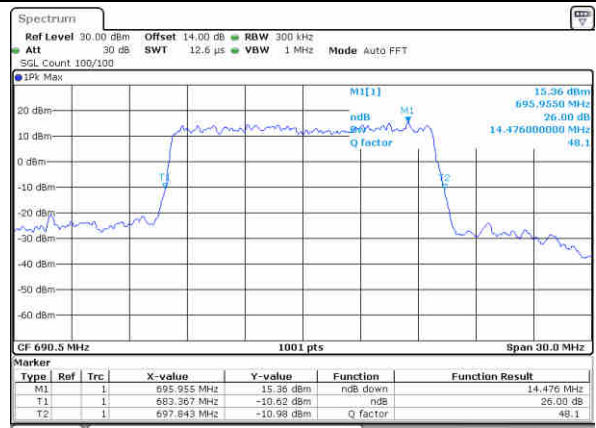
Date: 1,DEC,2019 09:15:09

Highest Channel / 15MHz / QPSK



Date: 1,DEC,2019 09:14:41

Highest Channel / 15MHz / 16QAM



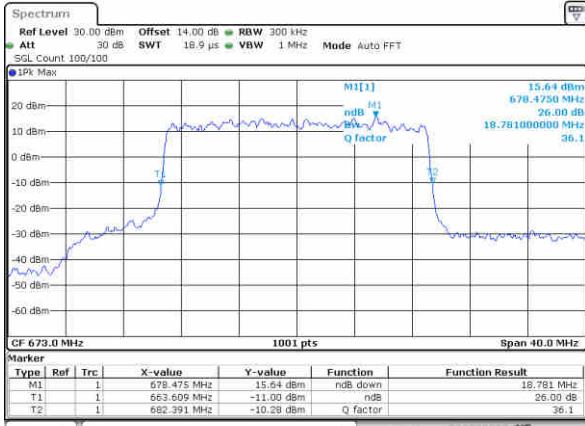
Date: 1,DEC,2019 09:15:53





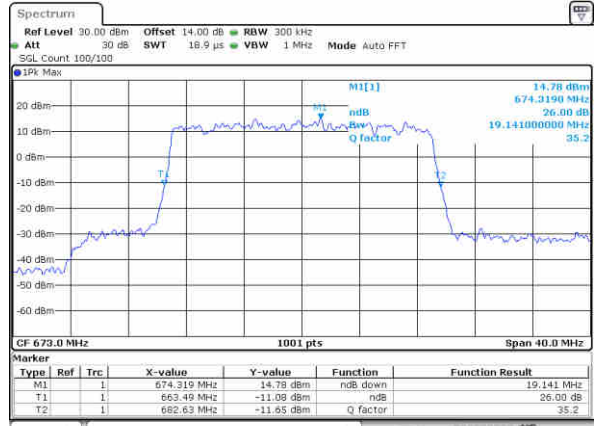
LTE Band 71

Lowest Channel / 20MHz / QPSK



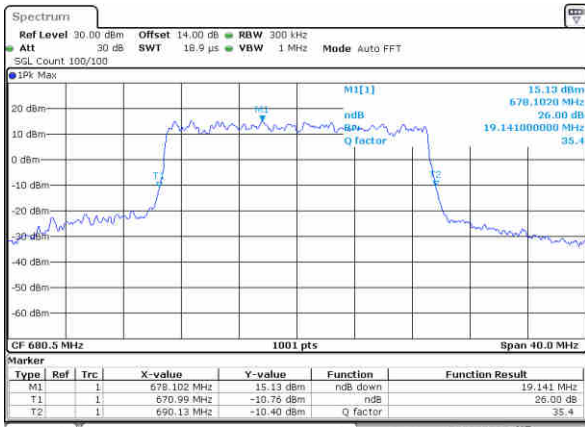
Date: 1,DEC,2019 09:42:00

Lowest Channel / 20MHz / 16QAM



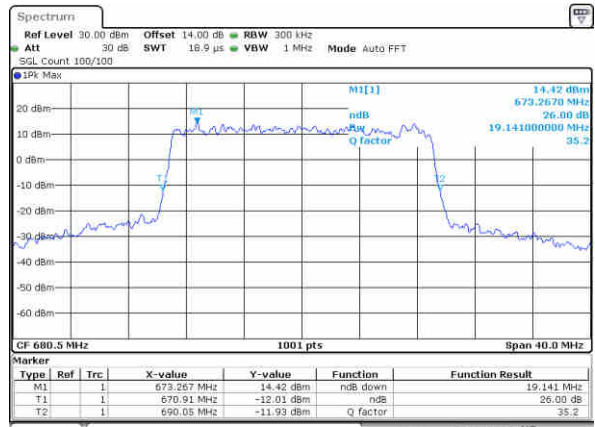
Date: 1,DEC,2019 09:41:00

Middle Channel / 20MHz / QPSK



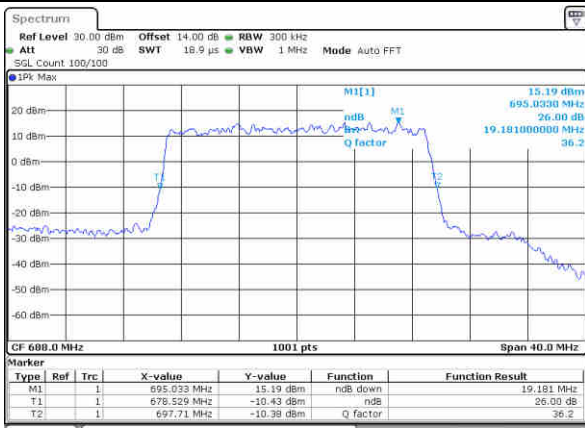
Date: 1,DEC,2019 09:24:50

Middle Channel / 20MHz / 16QAM



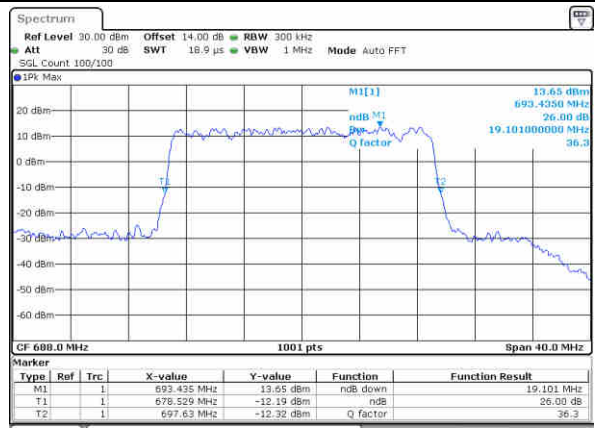
Date: 1,DEC,2019 09:23:20

Highest Channel / 20MHz / QPSK



Date: 1,DEC,2019 09:44:15

Highest Channel / 20MHz / 16QAM

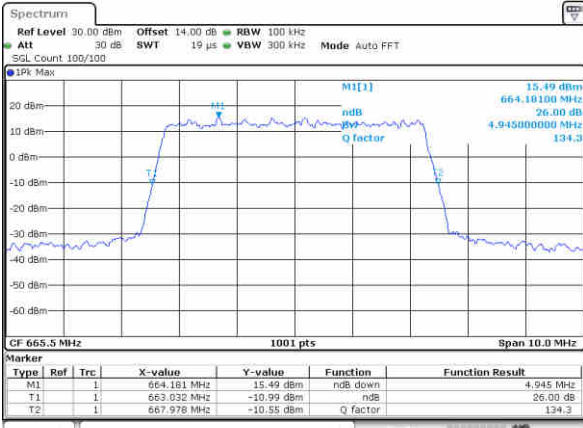


Date: 1,DEC,2019 09:45:34



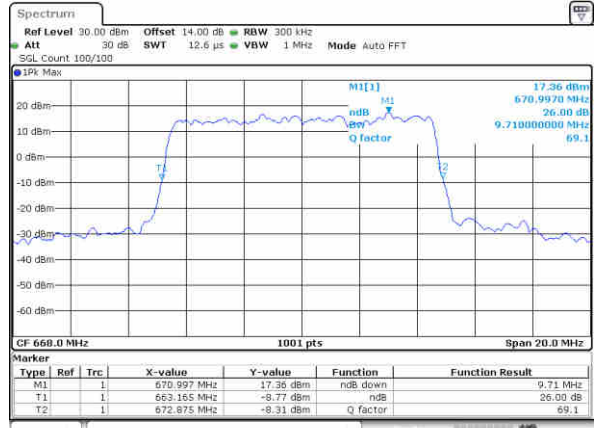
LTE Band 71

Lowest Channel / 5MHz / 64QAM



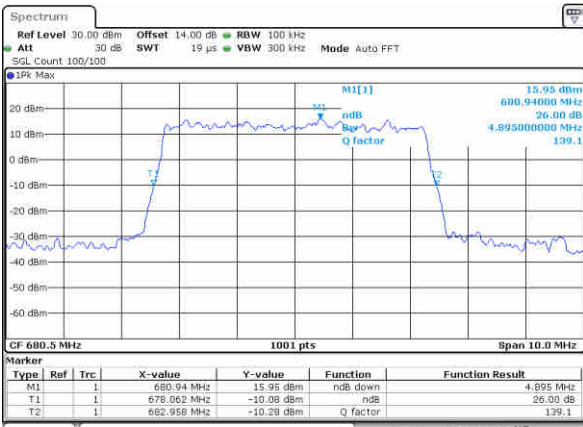
Date: 1,DEC,2019 08:11:01

Lowest Channel / 10MHz / 64QAM



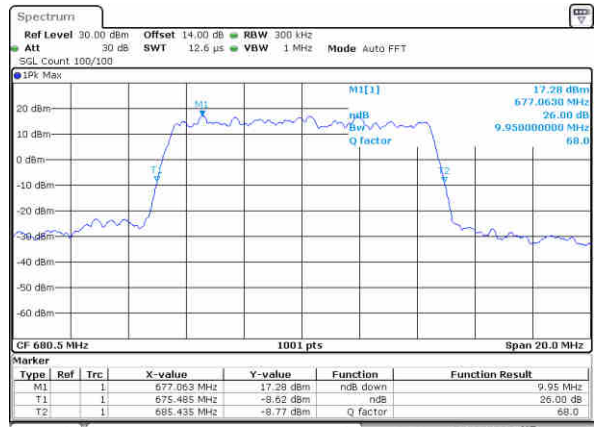
Date: 1,DEC,2019 08:14:35

Middle Channel / 5MHz / 64QAM



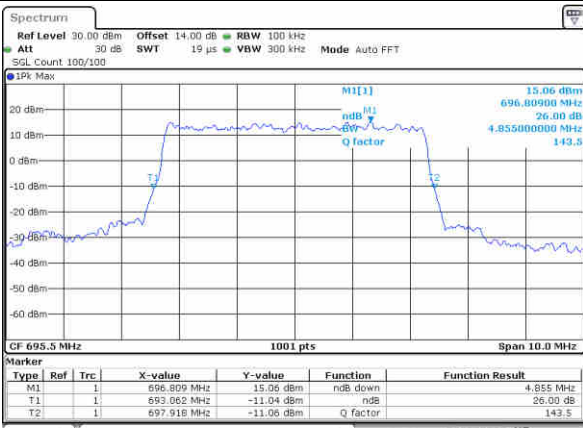
Date: 1,DEC,2019 07:49:22

Middle Channel / 10MHz / 64QAM



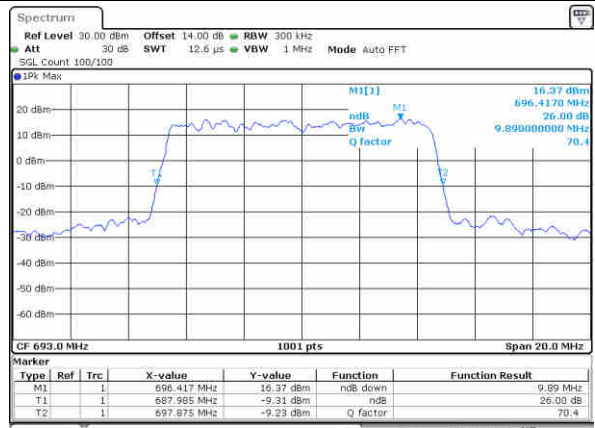
Date: 1,DEC,2019 08:14:32

Highest Channel / 5MHz / 64QAM



Date: 1,DEC,2019 08:12:54

Highest Channel / 10MHz / 64QAM

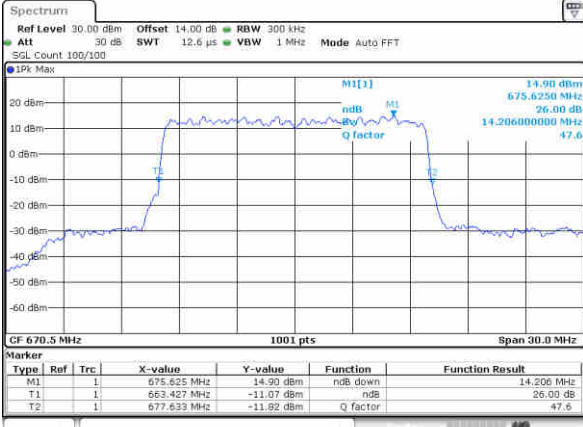


Date: 1,DEC,2019 08:15:03



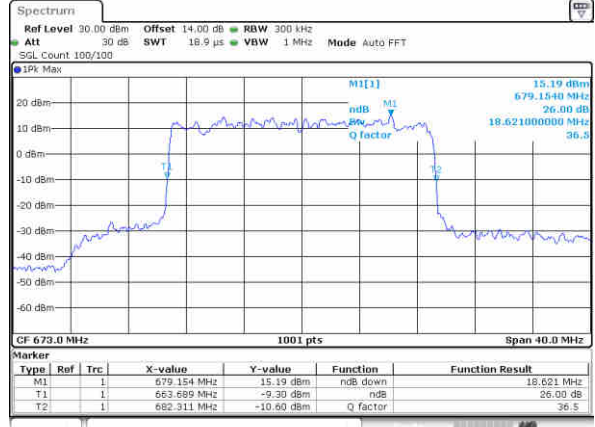
LTE Band 71

Lowest Channel / 15MHz / 64QAM



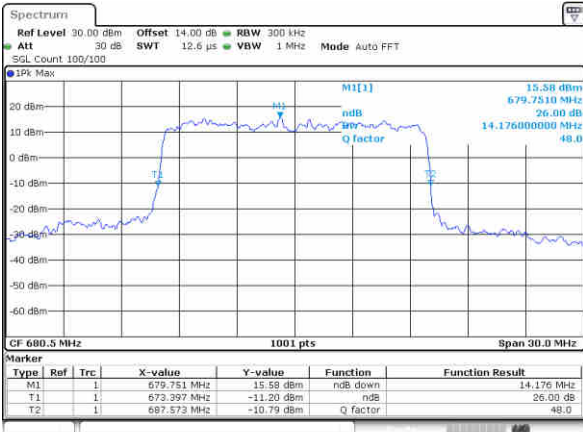
Date: 1,DEC,2019 09:10:24

Lowest Channel / 20MHz / 64QAM



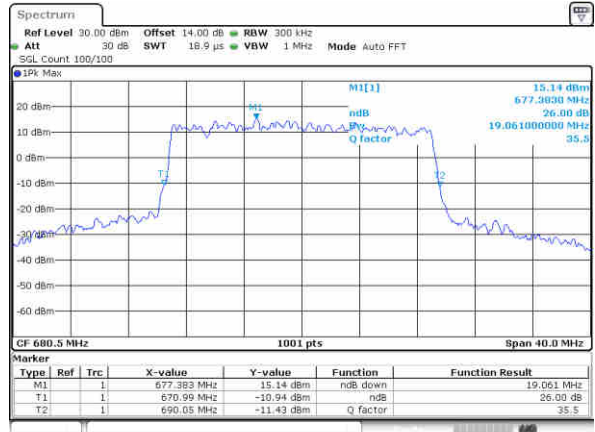
Date: 1,DEC,2019 09:35:58

Middle Channel / 15MHz / 64QAM



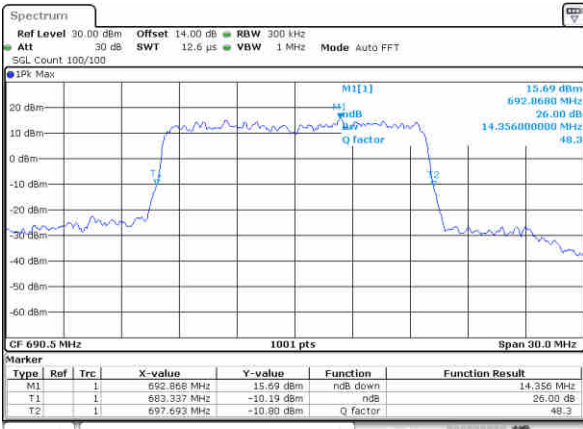
Date: 1,DEC,2019 08:18:26

Middle Channel / 20MHz / 64QAM



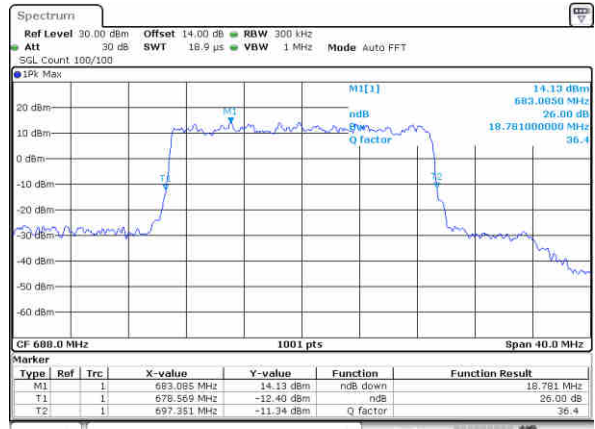
Date: 1,DEC,2019 09:28:46

Highest Channel / 15MHz / 64QAM



Date: 1,DEC,2019 09:17:29

Highest Channel / 20MHz / 64QAM



Date: 1,DEC,2019 09:46:52



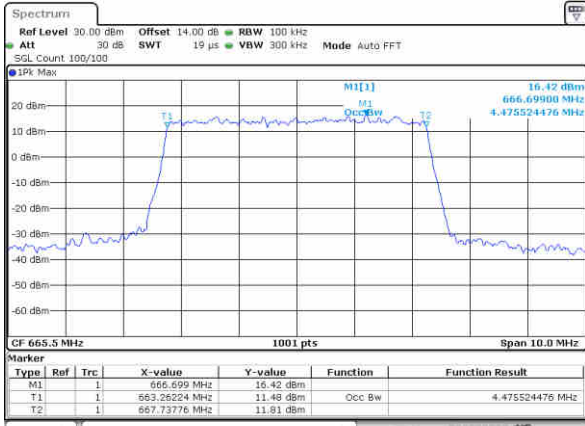
Occupied Bandwidth

Mode	LTE Band 71 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.48	4.49	9.03	8.99	13.46	13.49	17.82	17.82
Middle CH	4.50	4.53	9.05	9.01	13.46	13.46	17.86	17.86
Highest CH	4.49	4.48	9.01	9.05	13.40	13.40	17.94	17.90
Mode	LTE Band 71 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.50		8.99		13.46		17.90	
Middle CH	4.49		9.01		13.43		17.90	
Highest CH	4.49		8.99		13.43		17.90	



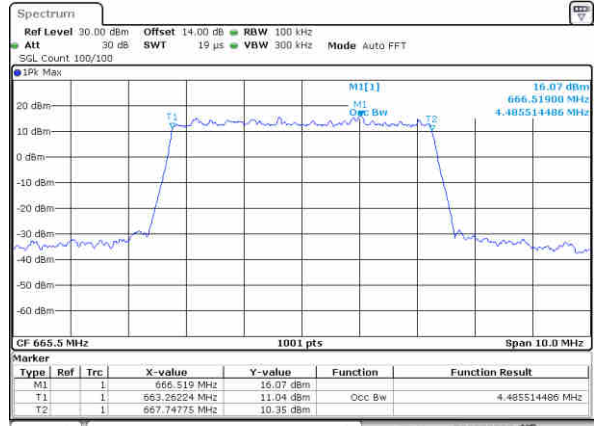
LTE Band 71

Lowest Channel / 5MHz / QPSK



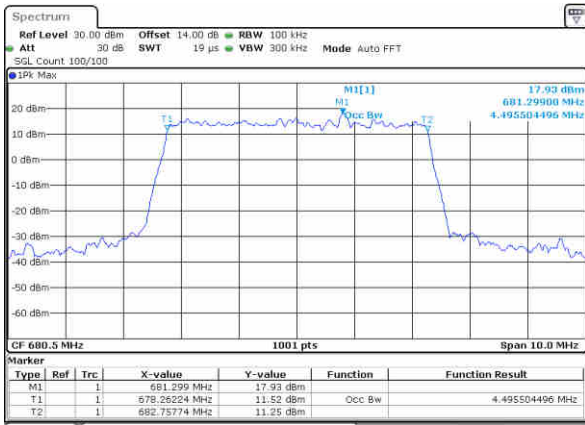
Date: 1,DEC,2019 08:10:23

Lowest Channel / 5MHz / 16QAM



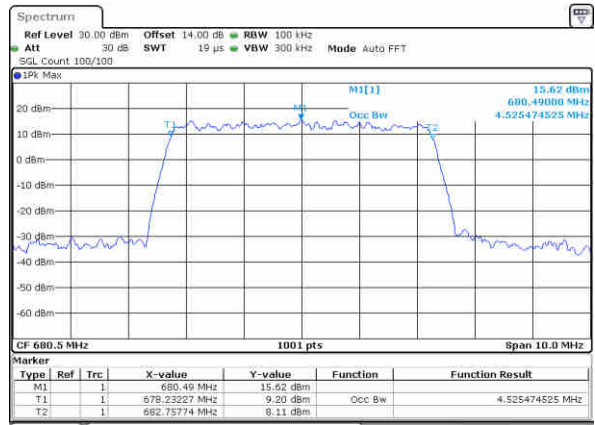
Date: 1,DEC,2019 08:19:20

Middle Channel / 5MHz / QPSK



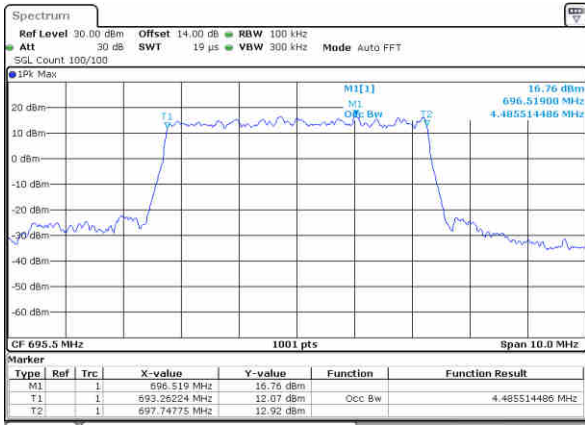
Date: 1,DEC,2019 07:48:19

Middle Channel / 5MHz / 16QAM



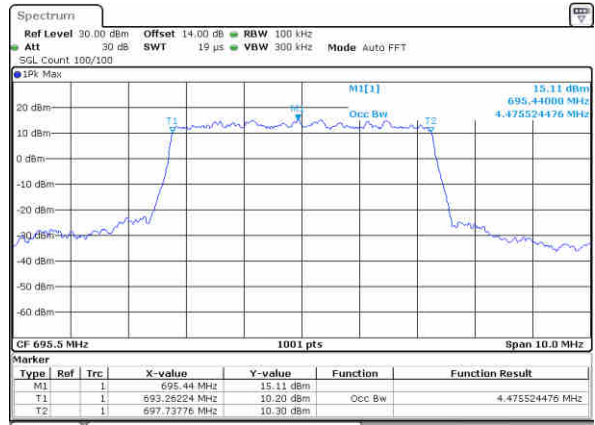
Date: 1,DEC,2019 07:48:56

Highest Channel / 5MHz / QPSK



Date: 1,DEC,2019 08:12:00

Highest Channel / 5MHz / 16QAM



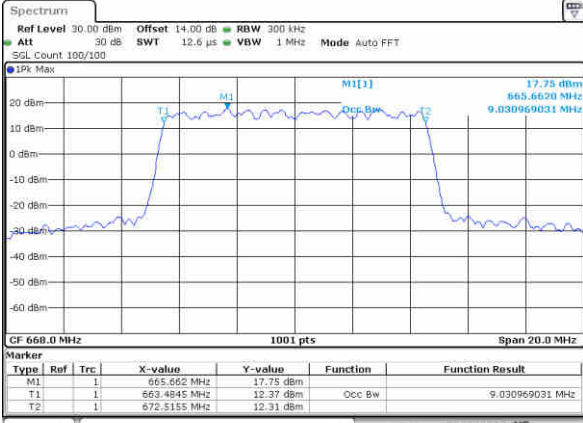
Date: 1,DEC,2019 08:12:16





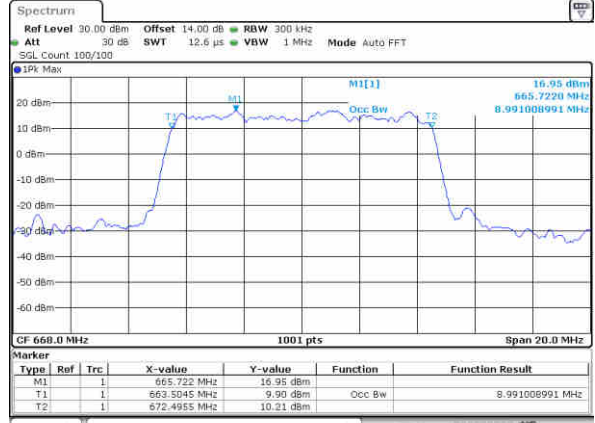
LTE Band 71

Lowest Channel / 10MHz / QPSK



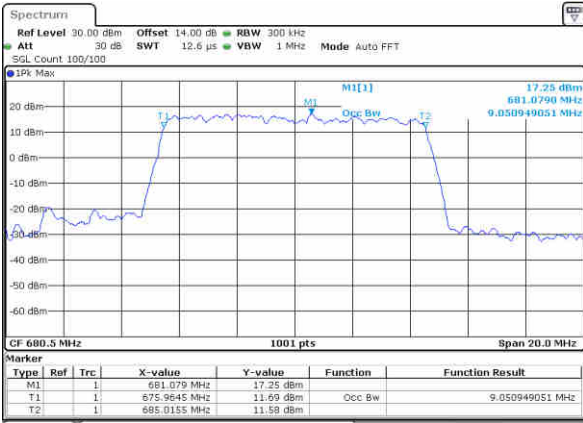
Date: 1,DEC,2019 08:44:15

Lowest Channel / 10MHz / 16QAM



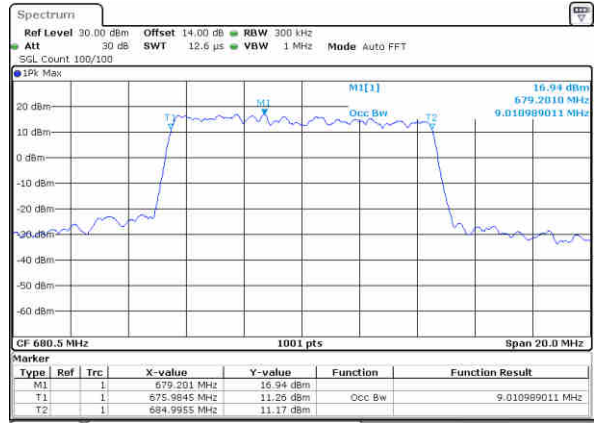
Date: 1,DEC,2019 08:44:28

Middle Channel / 10MHz / QPSK



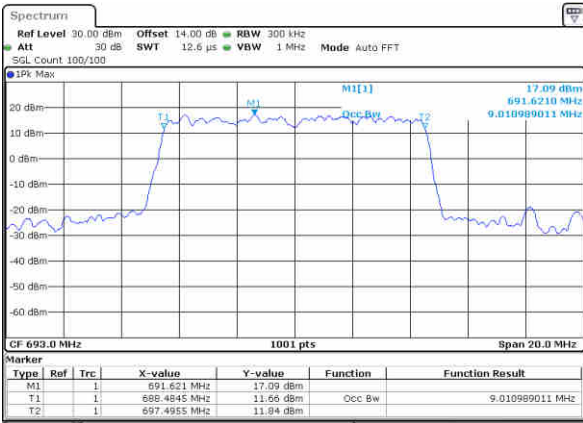
Date: 1,DEC,2019 08:25:32

Middle Channel / 10MHz / 16QAM



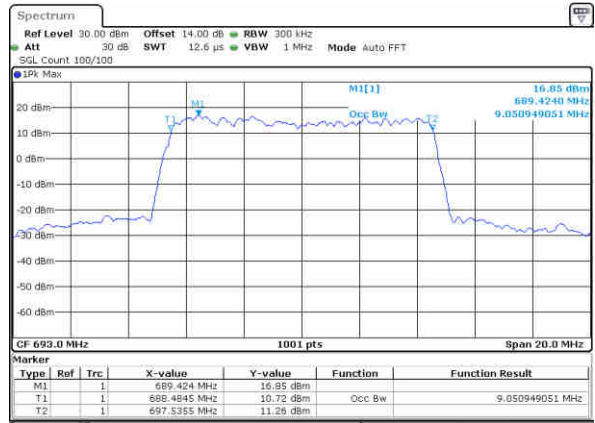
Date: 1,DEC,2019 08:26:55

Highest Channel / 10MHz / QPSK



Date: 1,DEC,2019 08:47:31

Highest Channel / 10MHz / 16QAM

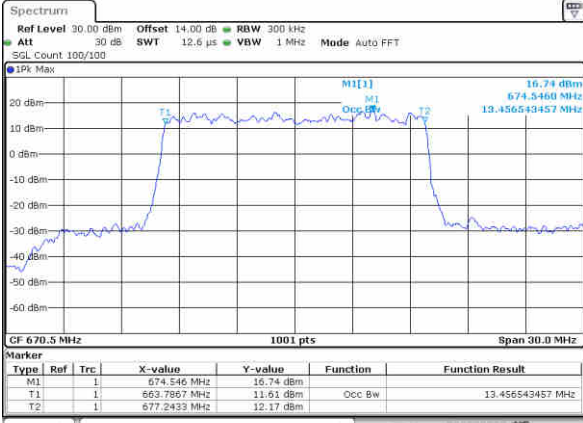


Date: 1,DEC,2019 08:48:48



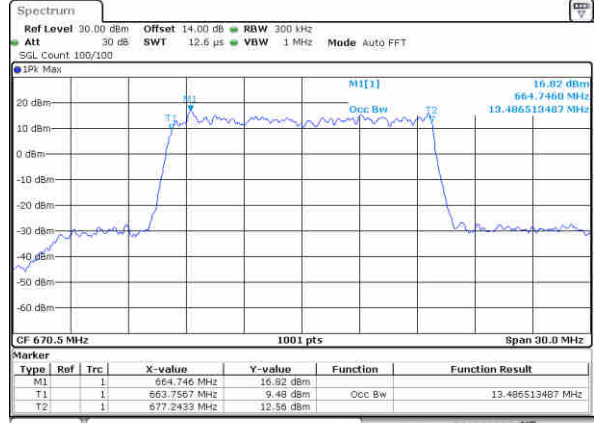
LTE Band 71

Lowest Channel / 15MHz / QPSK



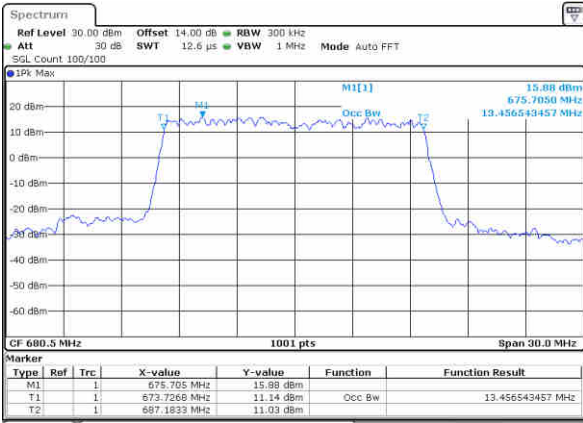
Date: 1,DEC,2019 09:11:26

Lowest Channel / 15MHz / 16QAM



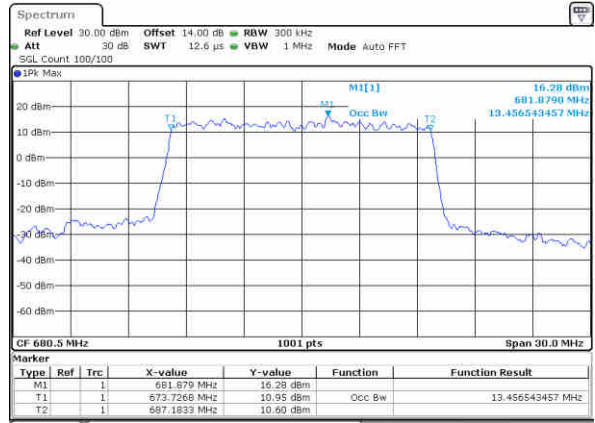
Date: 1,DEC,2019 09:11:16

Middle Channel / 15MHz / QPSK



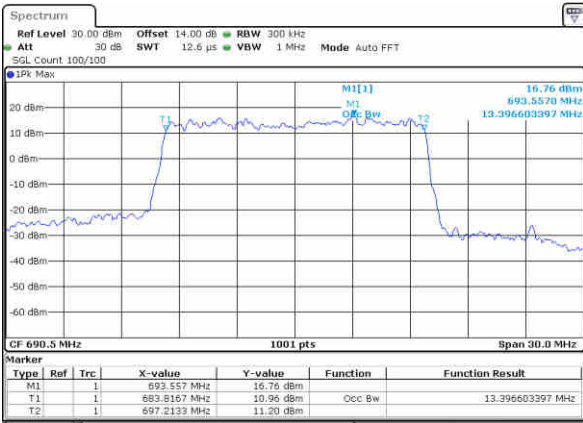
Date: 1,DEC,2019 09:15:41

Middle Channel / 15MHz / 16QAM



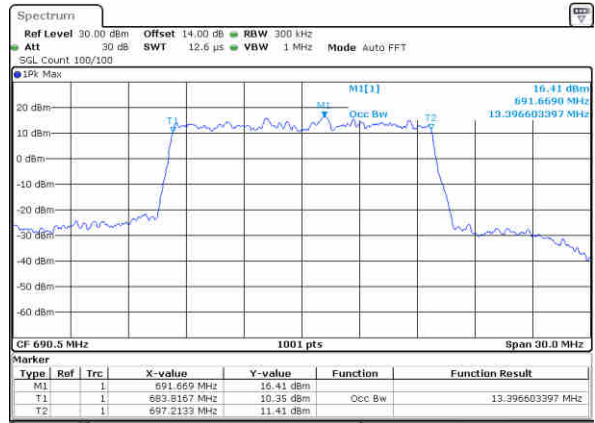
Date: 1,DEC,2019 09:15:01

Highest Channel / 15MHz / QPSK



Date: 1,DEC,2019 09:14:29

Highest Channel / 15MHz / 16QAM

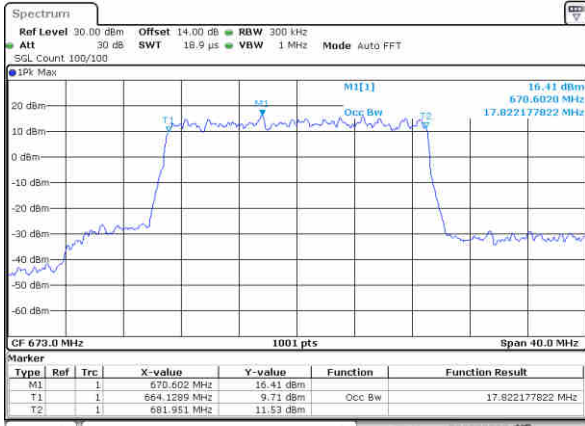


Date: 1,DEC,2019 09:15:46



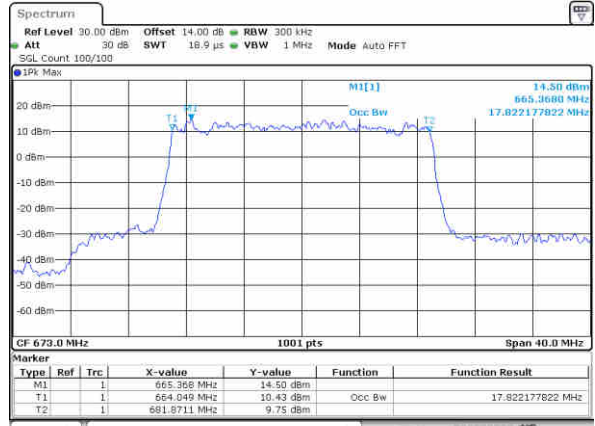
LTE Band 71

Lowest Channel / 20MHz / QPSK



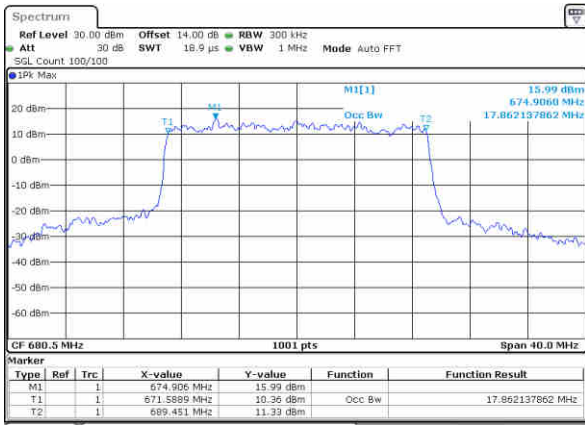
Date: 1,DEC,2019 09:42:00

Lowest Channel / 20MHz / 16QAM



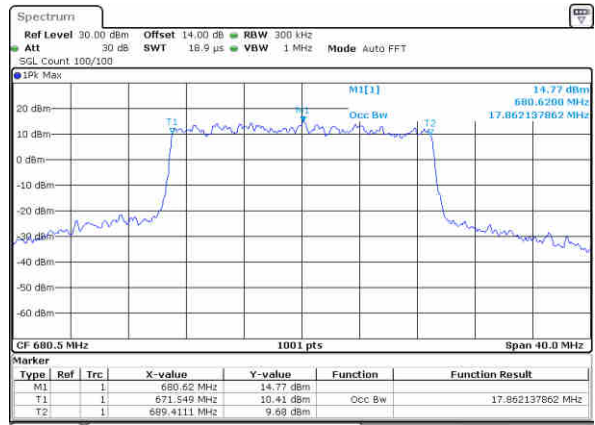
Date: 1,DEC,2019 09:40:43

Middle Channel / 20MHz / QPSK



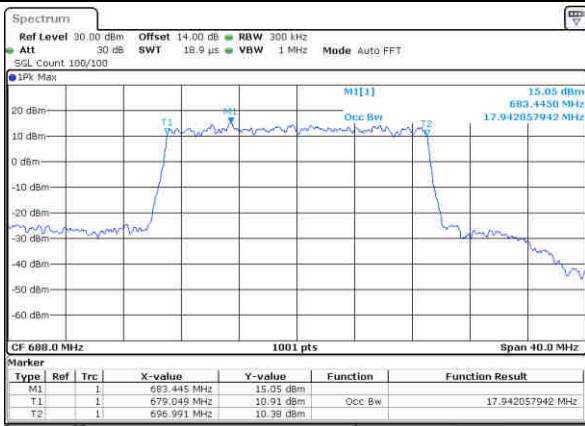
Date: 1,DEC,2019 09:24:50

Middle Channel / 20MHz / 16QAM



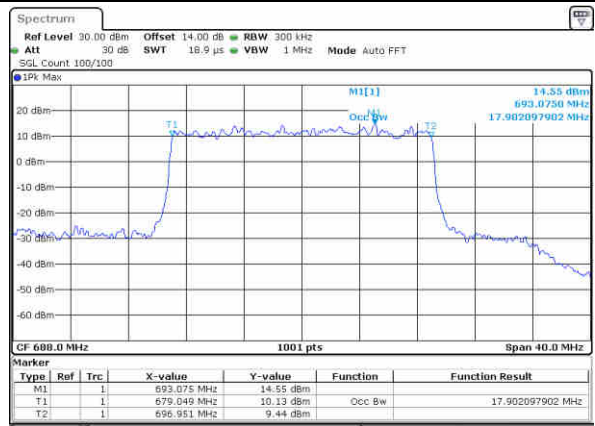
Date: 1,DEC,2019 09:23:27

Highest Channel / 20MHz / QPSK



Date: 1,DEC,2019 09:44:07

Highest Channel / 20MHz / 16QAM

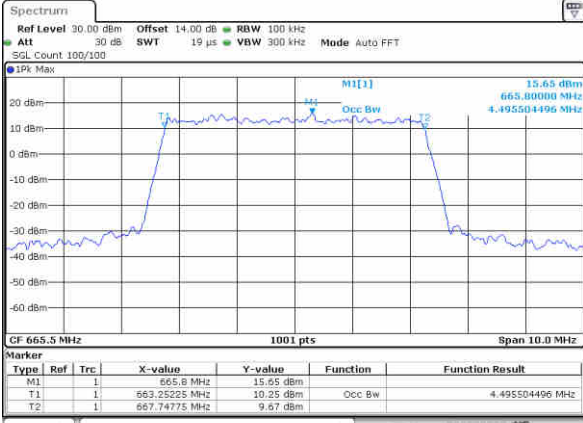


Date: 1,DEC,2019 09:45:27



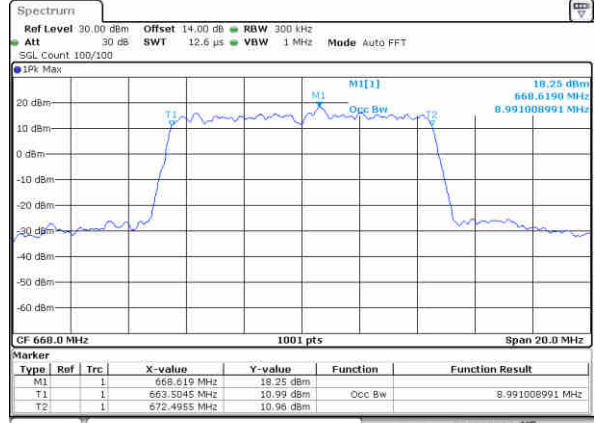
LTE Band 71

Lowest Channel / 5MHz / 64QAM



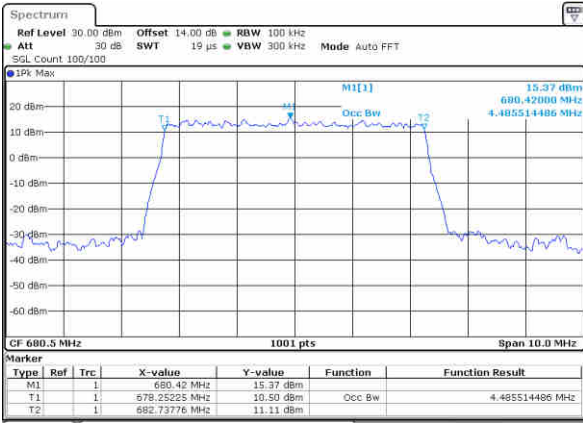
Date: 1,DEC,2019 08:10:44

Lowest Channel / 10MHz / 64QAM



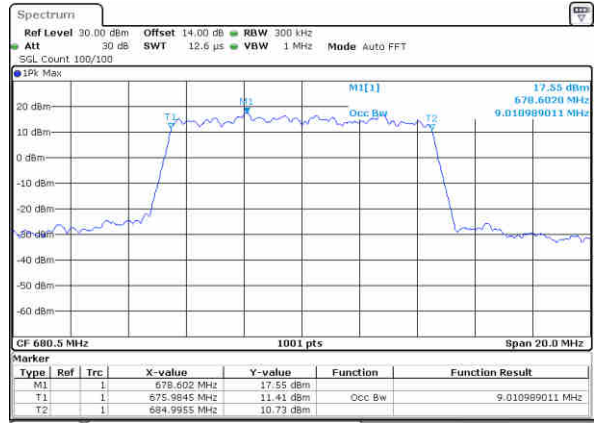
Date: 1,DEC,2019 08:14:28

Middle Channel / 5MHz / 64QAM



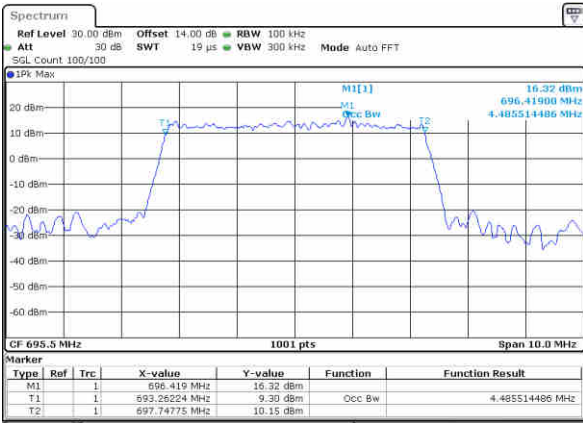
Date: 1,DEC,2019 07:49:25

Middle Channel / 10MHz / 64QAM



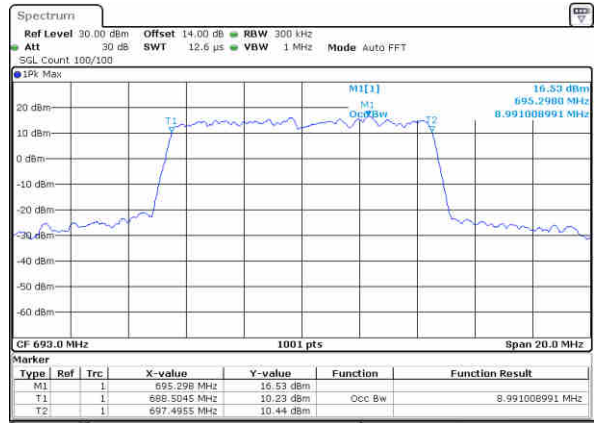
Date: 1,DEC,2019 08:14:23

Highest Channel / 5MHz / 64QAM



Date: 1,DEC,2019 08:12:46

Highest Channel / 10MHz / 64QAM

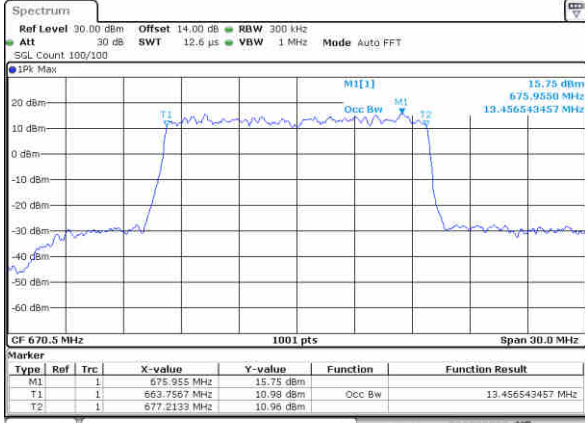


Date: 1,DEC,2019 08:15:02



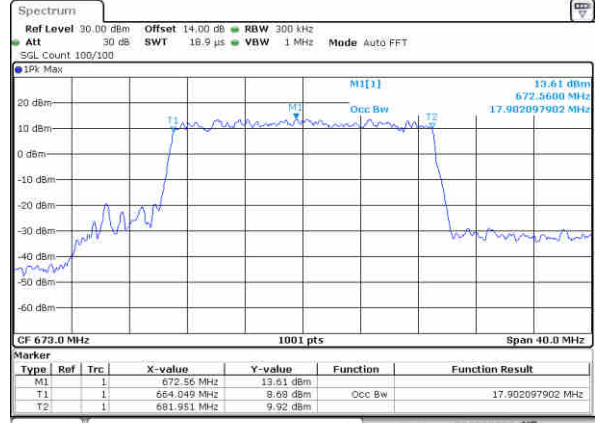
LTE Band 71

Lowest Channel / 15MHz / 64QAM



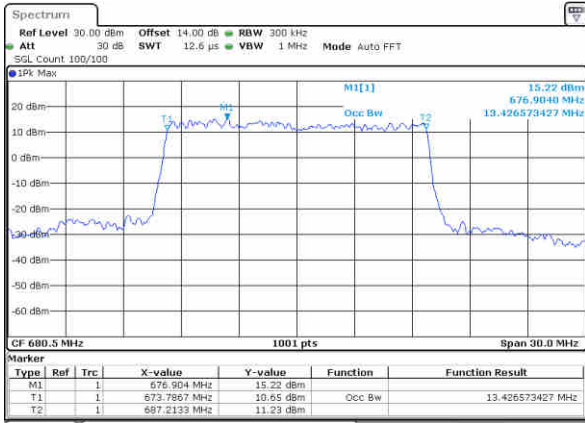
Date: 1,DEC,2019 09:10:13

Lowest Channel / 20MHz / 64QAM



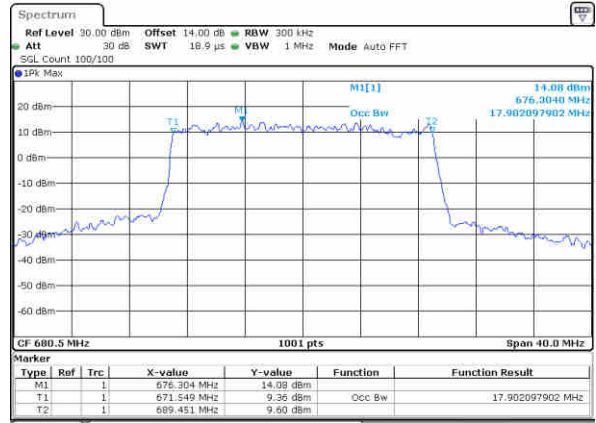
Date: 1,DEC,2019 09:35:49

Middle Channel / 15MHz / 64QAM



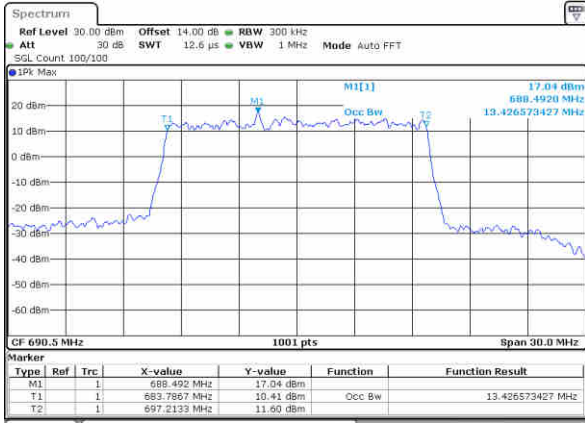
Date: 1,DEC,2019 09:16:36

Middle Channel / 20MHz / 64QAM



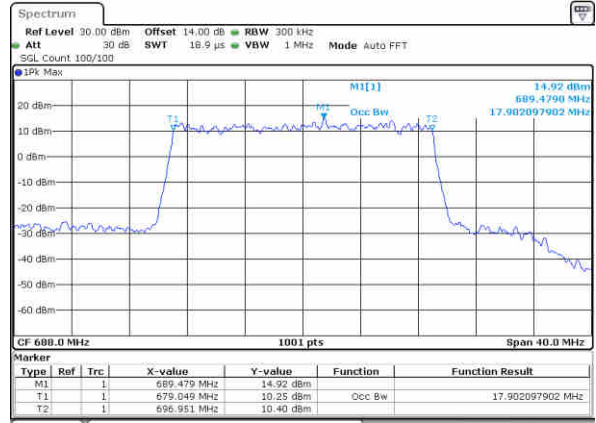
Date: 1,DEC,2019 09:25:56

Highest Channel / 15MHz / 64QAM



Date: 1,DEC,2019 09:17:13

Highest Channel / 20MHz / 64QAM

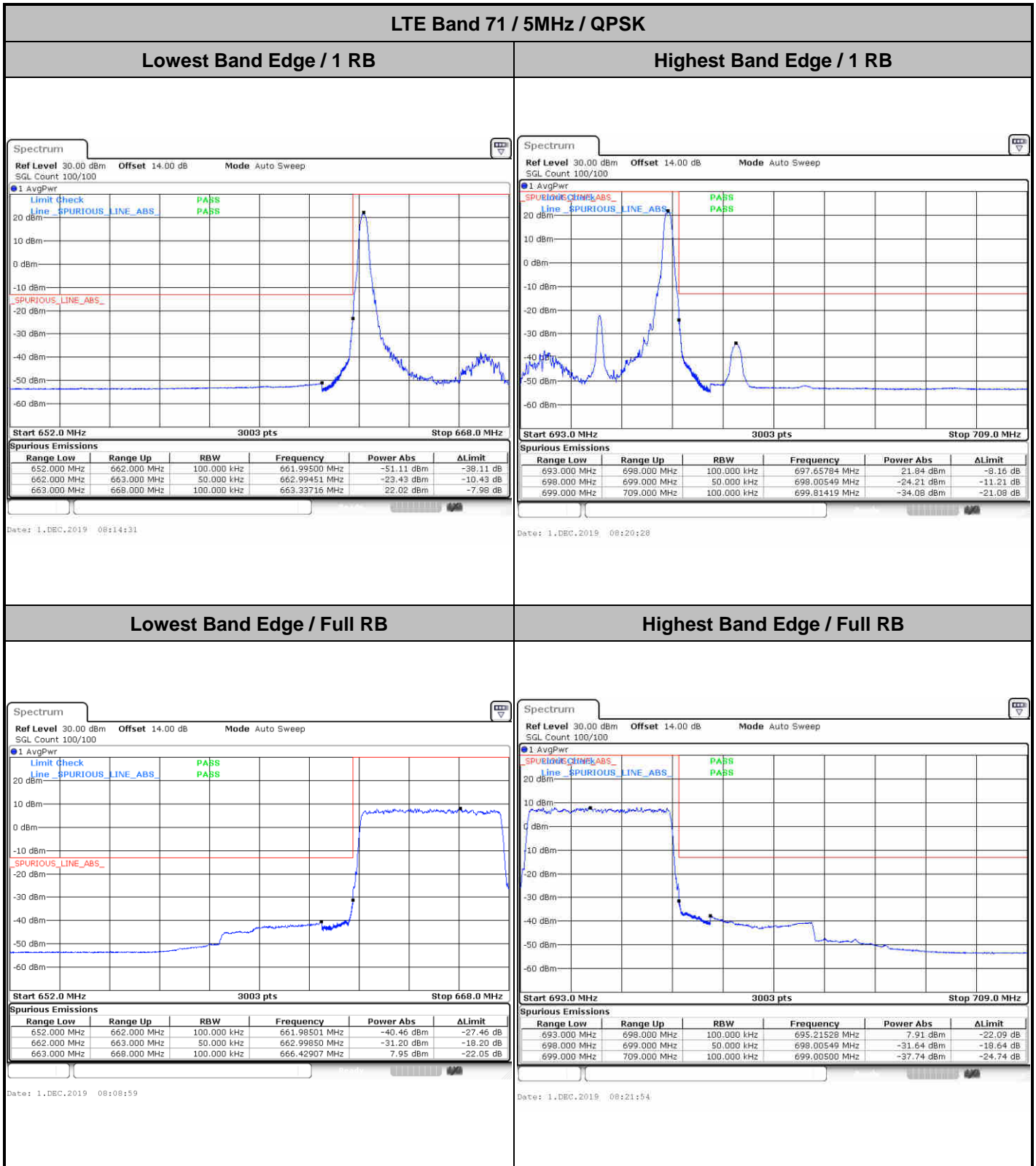


Date: 1,DEC,2019 09:46:45





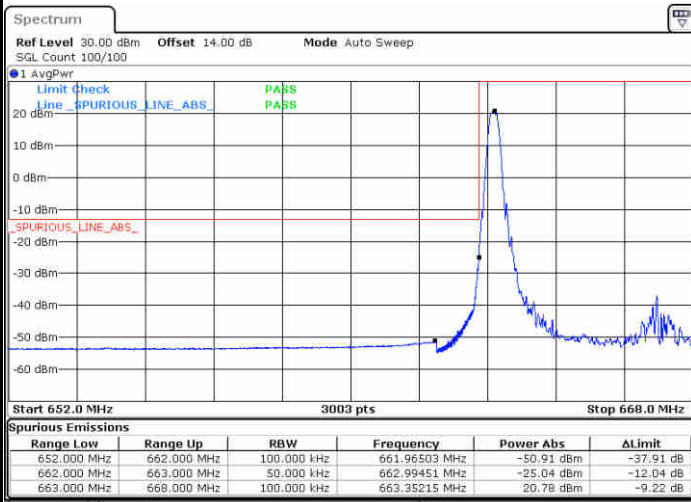
# Conducted Band Edge





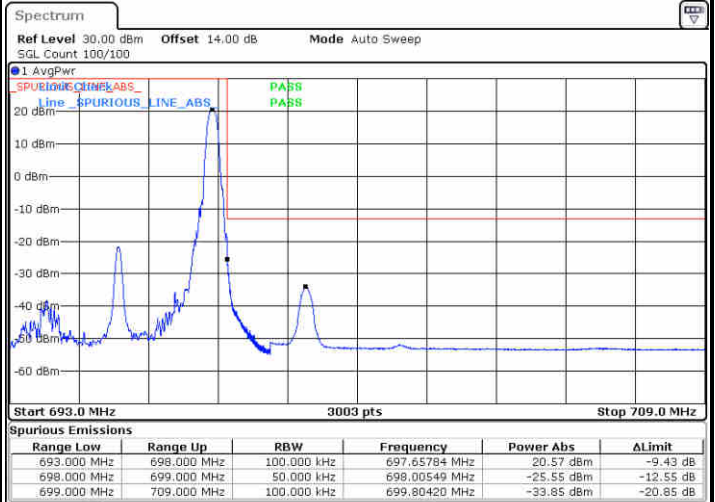
LTE Band 71 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



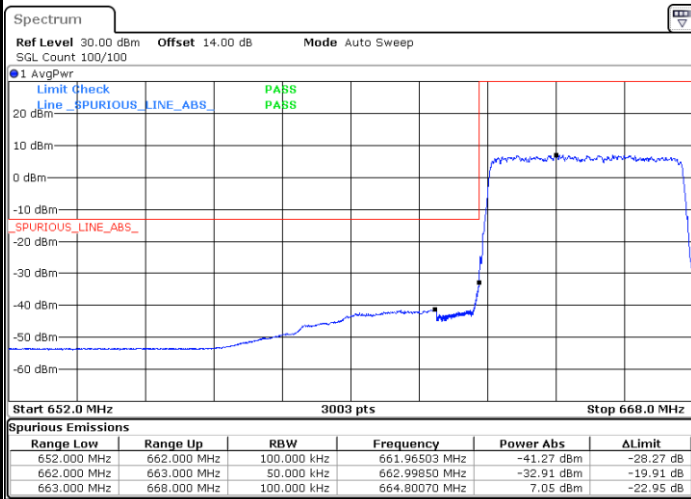
Date: 1.DEC.2019 08:13:38

Highest Band Edge / 1 RB



Date: 1.DEC.2019 08:19:40

Lowest Band Edge / Full RB



Date: 1.DEC.2019 08:10:11

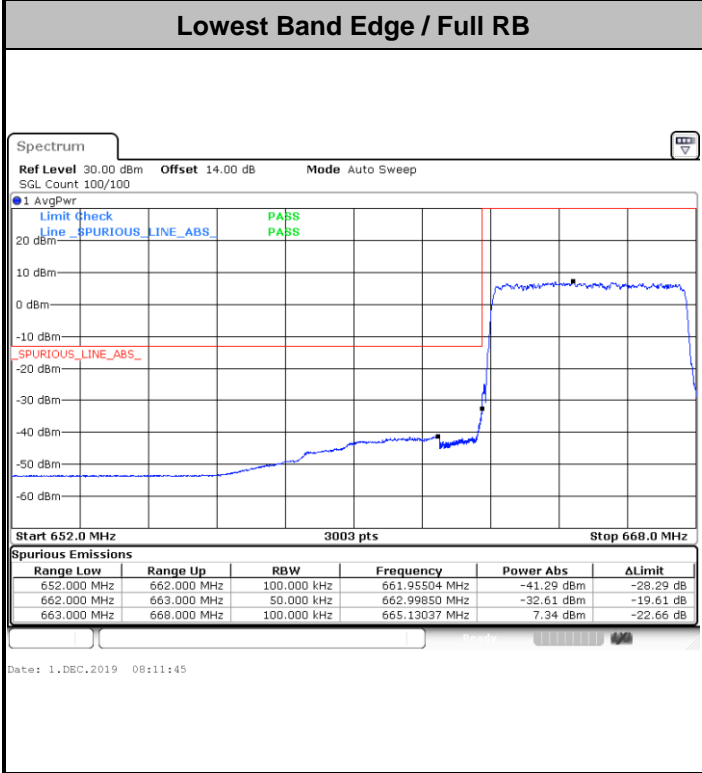
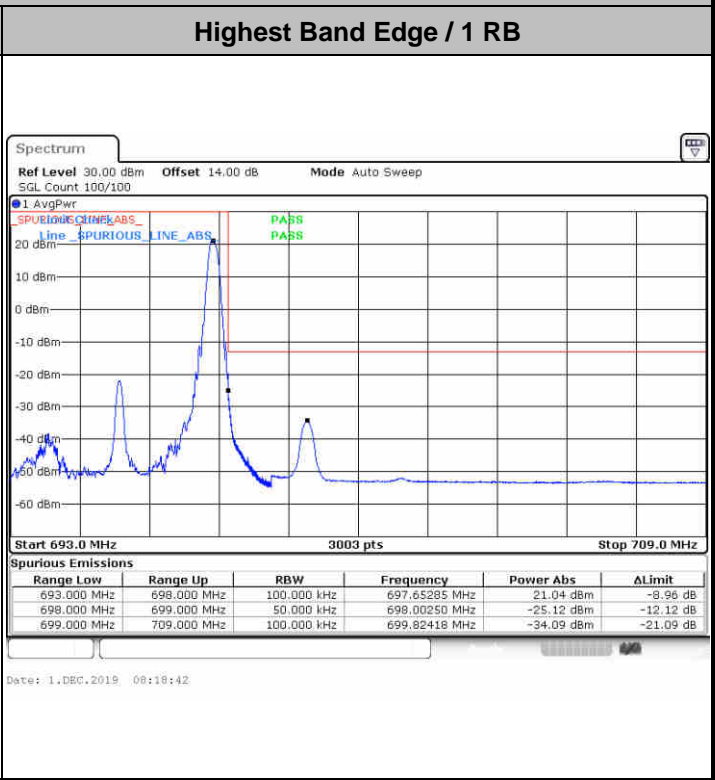
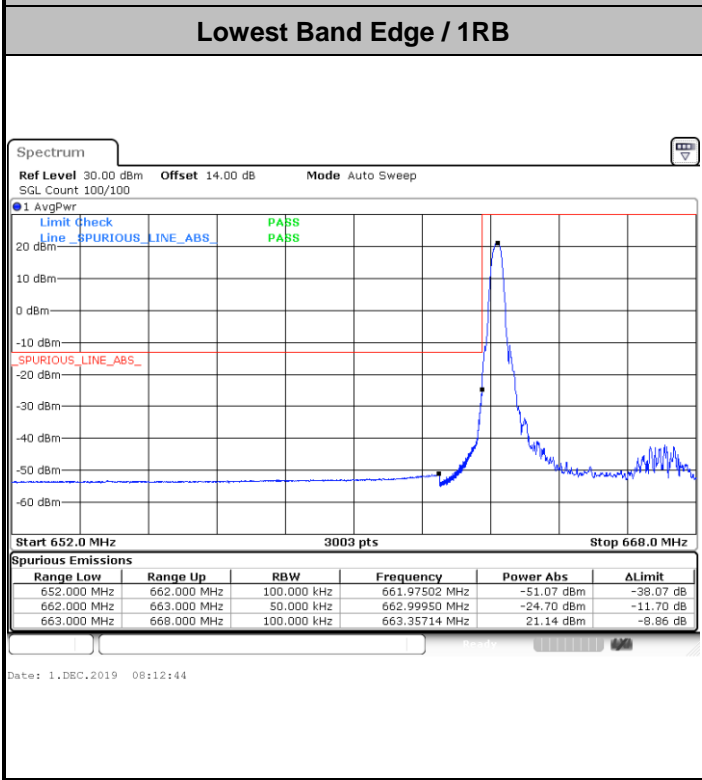
Highest Band Edge / Full RB



Date: 1.DEC.2019 08:23:05

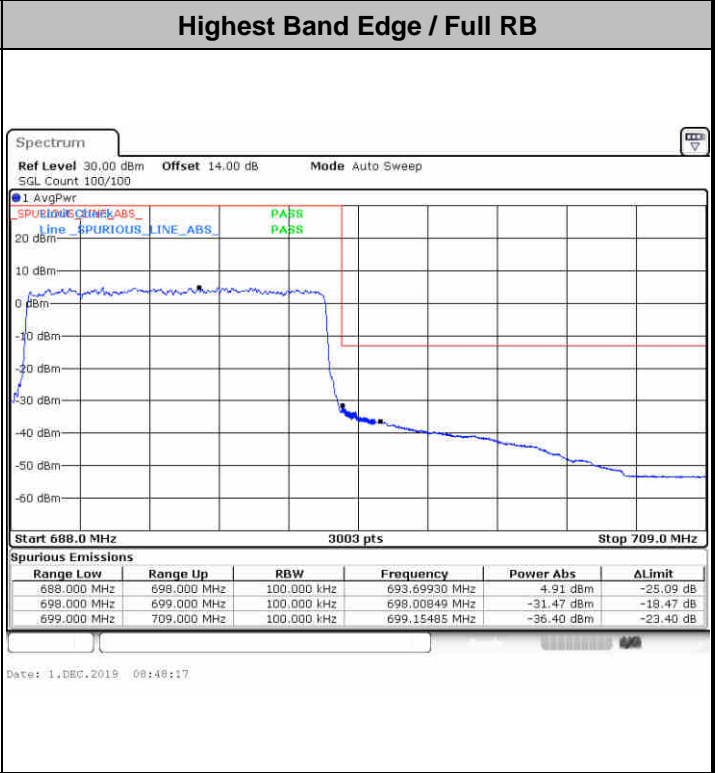
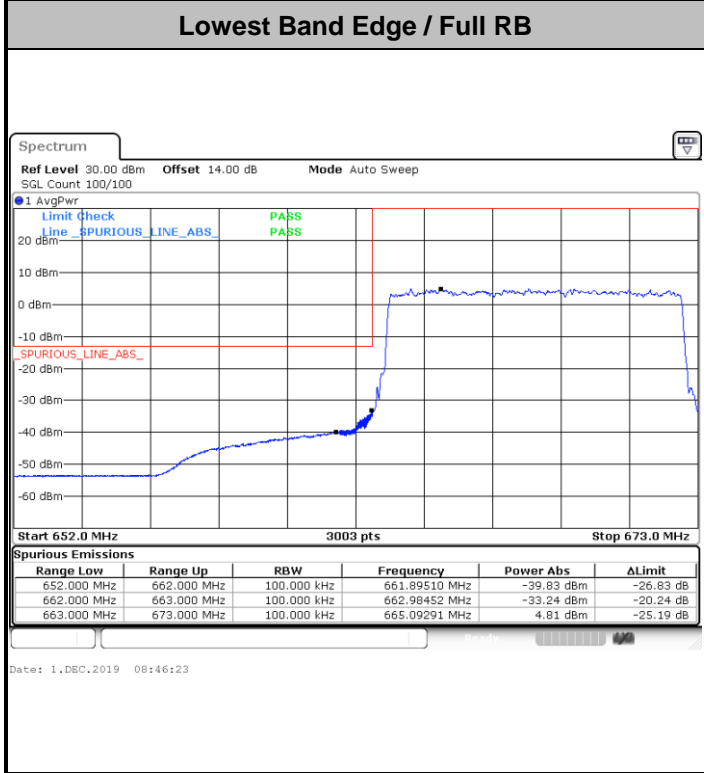
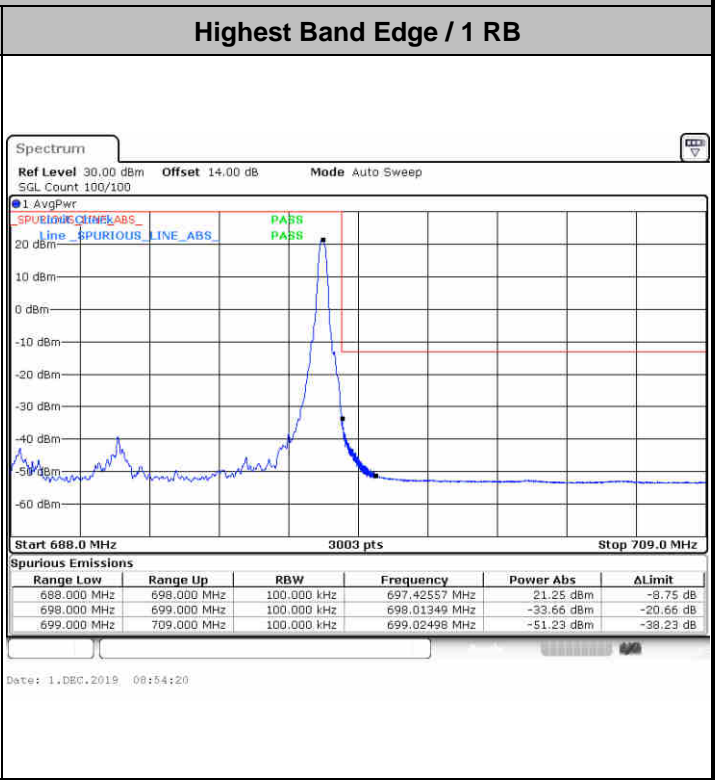
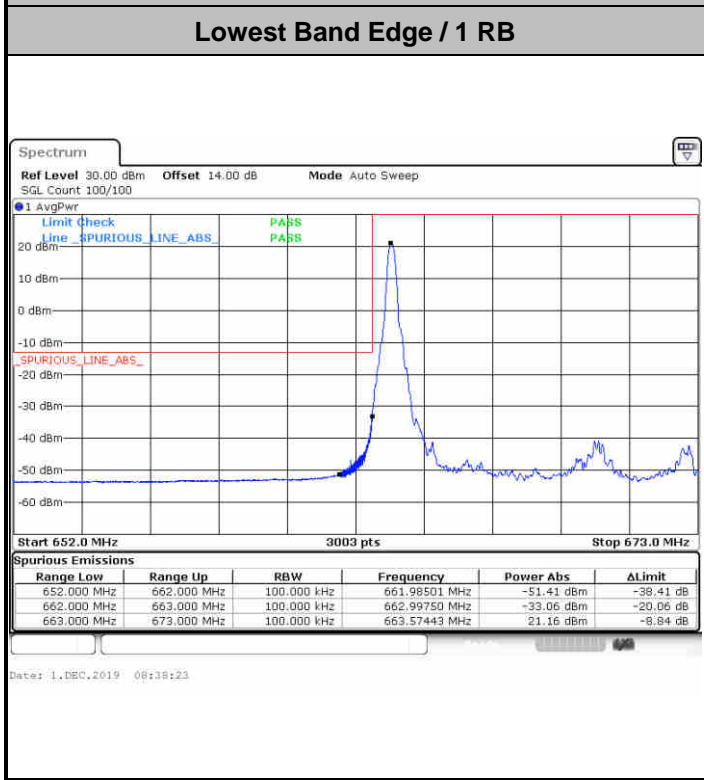


**LTE Band 71 / 5MHz / 64QAM**





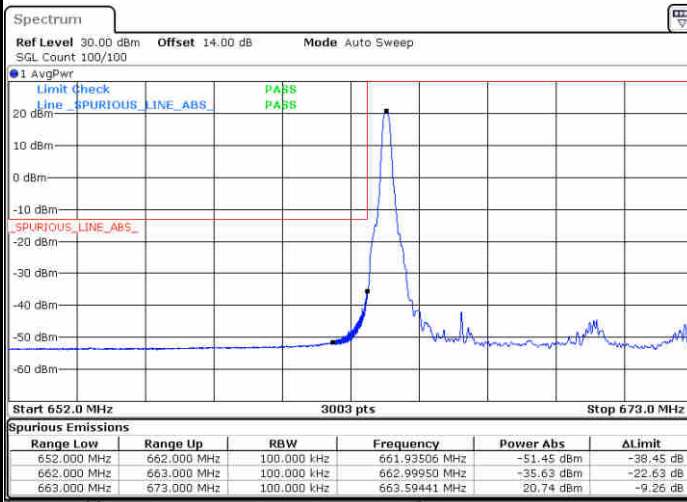
**LTE Band 71 / 10MHz / QPSK**





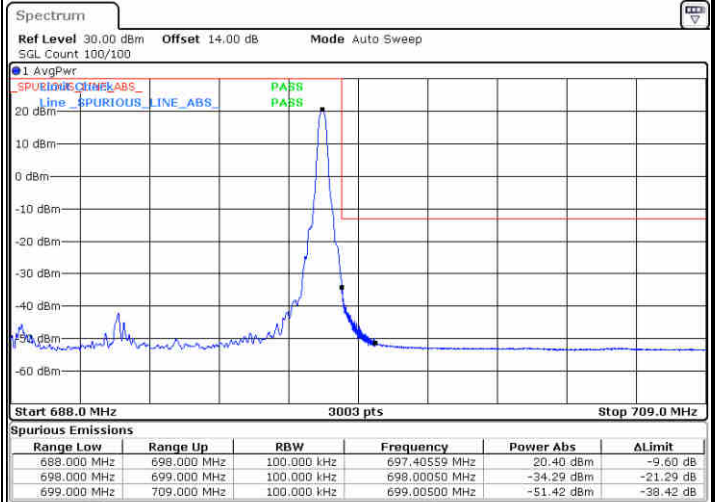
LTE Band 71 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



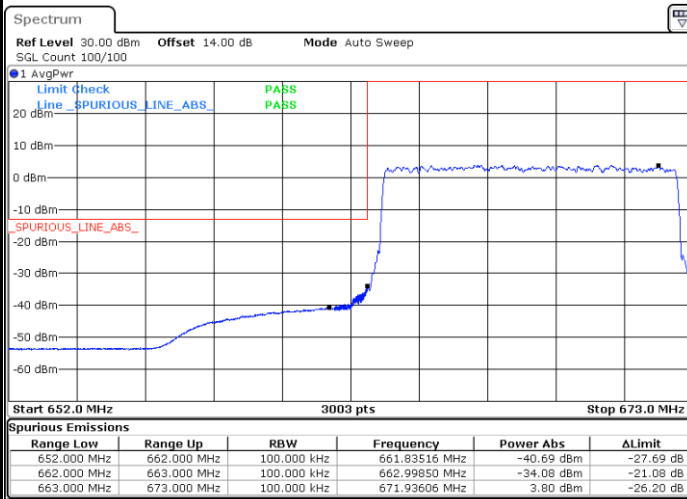
Date: 1.DEC.2019 08:39:56

Highest Band Edge / 1 RB



Date: 1.DEC.2019 08:55:06

Lowest Band Edge / Full RB



Date: 1.DEC.2019 08:45:10

Highest Band Edge / Full RB



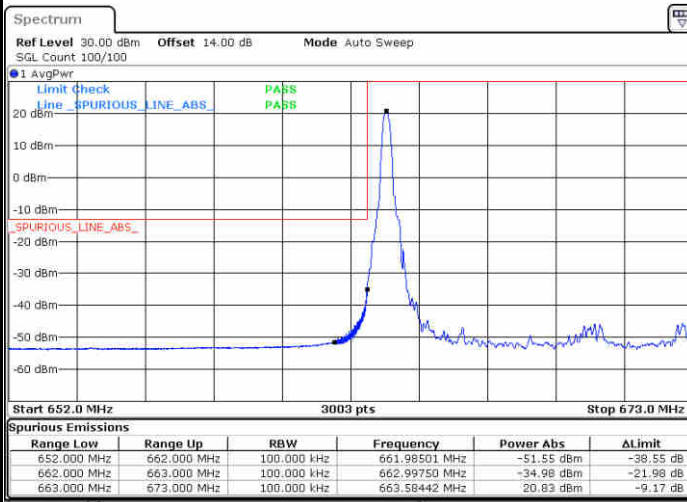
Date: 1.DEC.2019 08:49:34





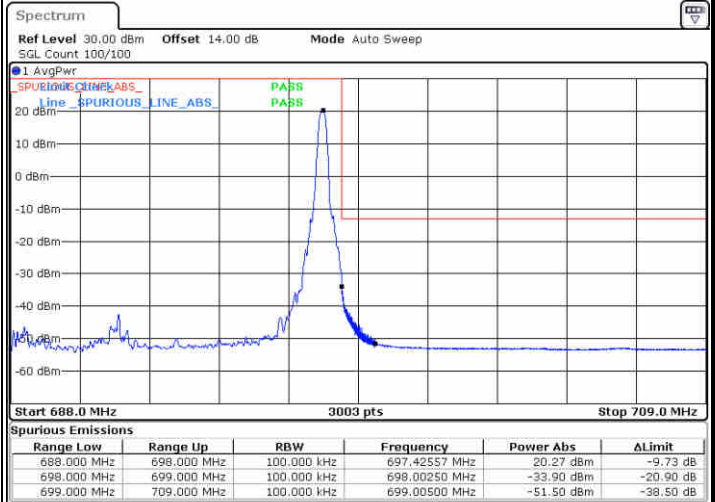
LTE Band 71 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



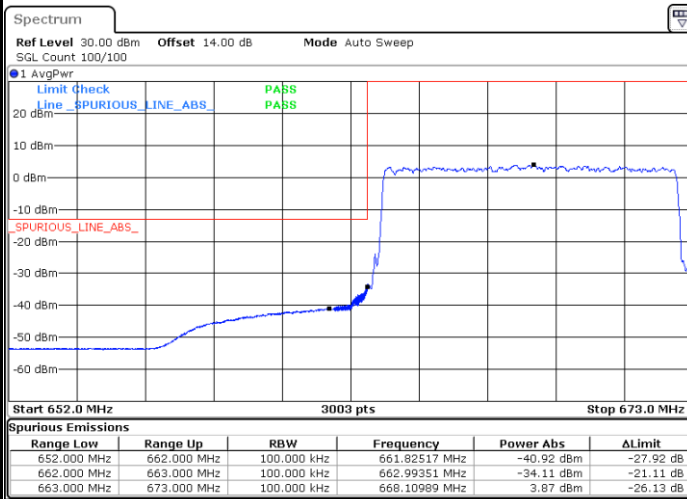
Date: 1.DEC.2019 08:41:46

Highest Band Edge / 1 RB



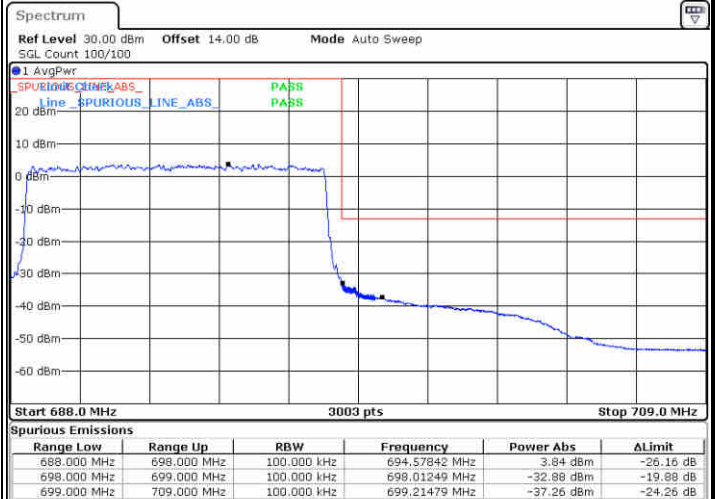
Date: 1.DEC.2019 08:56:20

Lowest Band Edge / Full RB



Date: 1.DEC.2019 08:44:10

Highest Band Edge / Full RB



Date: 1.DEC.2019 08:50:52