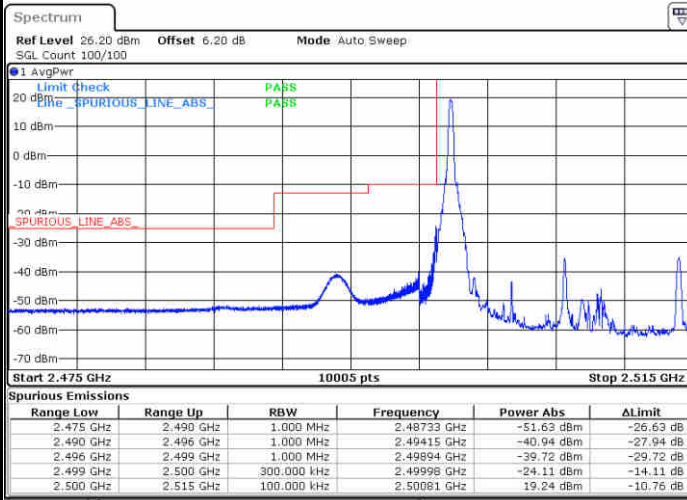




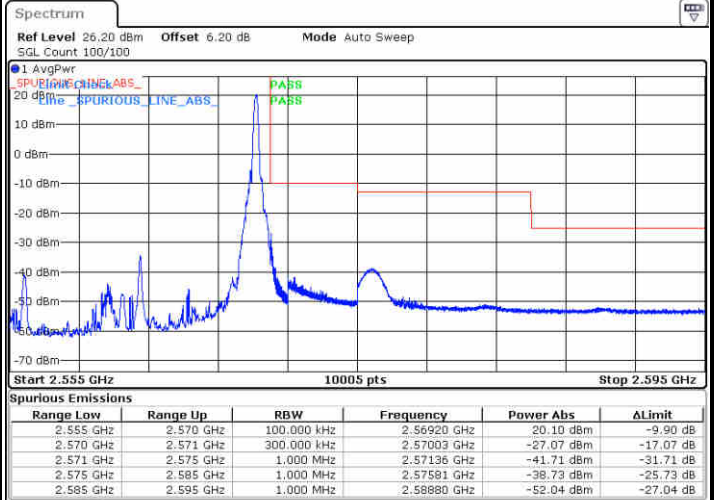
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



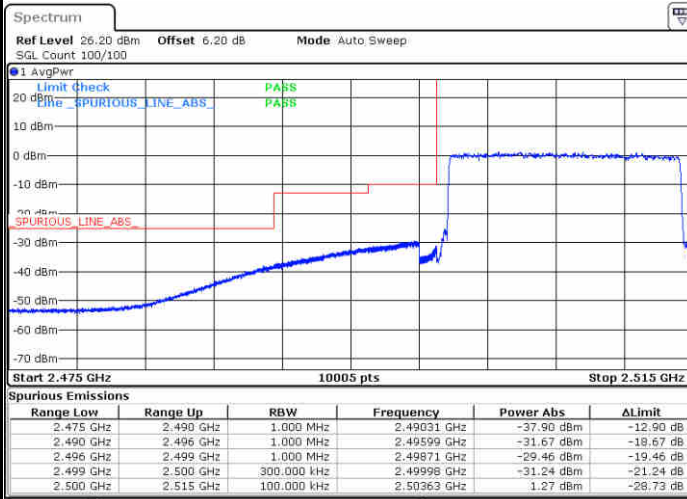
Date: 20.OCT.2019 02:38:25

Highest Band Edge / 1 RB



Date: 20.OCT.2019 02:44:06

Lowest Band Edge / Full RB



Date: 20.OCT.2019 02:39:34

Highest Band Edge / Full RB

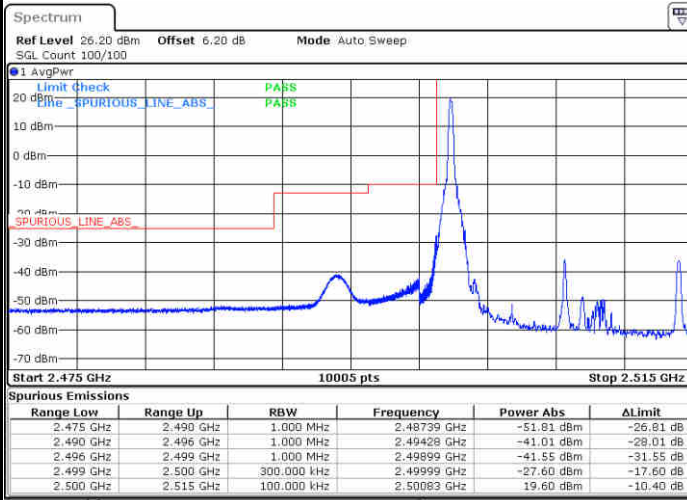


Date: 20.OCT.2019 02:42:58



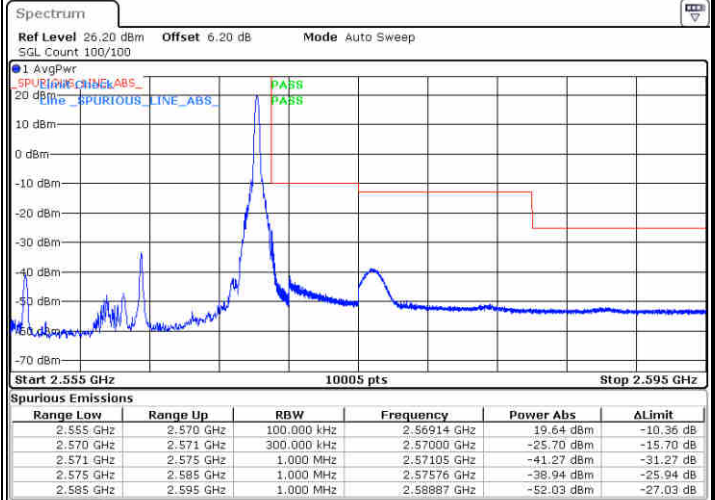
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



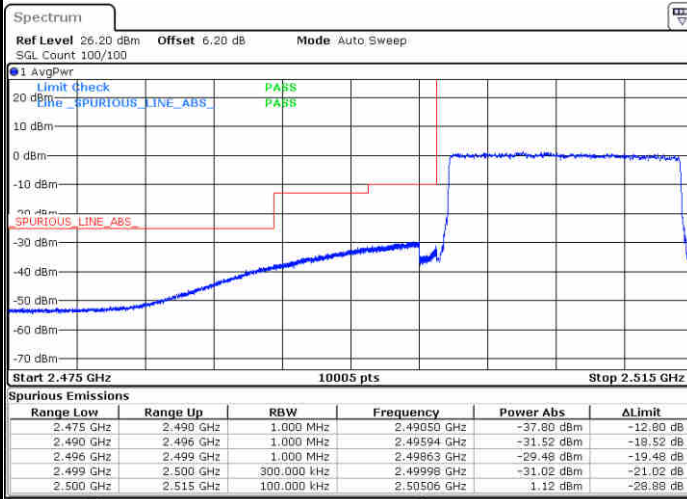
Date: 20.OCT.2019 03:26:51

Highest Band Edge / 1 RB



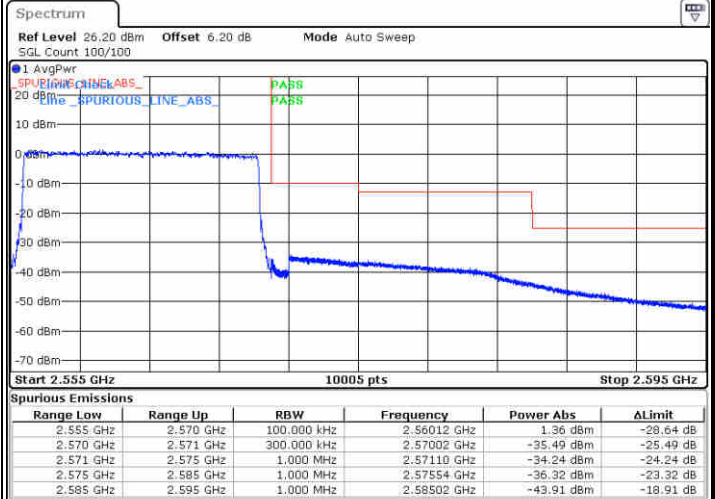
Date: 20.OCT.2019 03:29:07

Lowest Band Edge / Full RB



Date: 20.OCT.2019 03:25:43

Highest Band Edge / Full RB

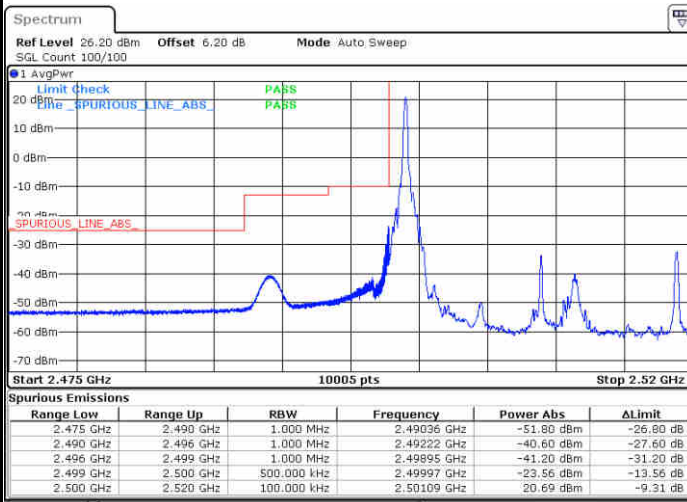


Date: 20.OCT.2019 03:27:59



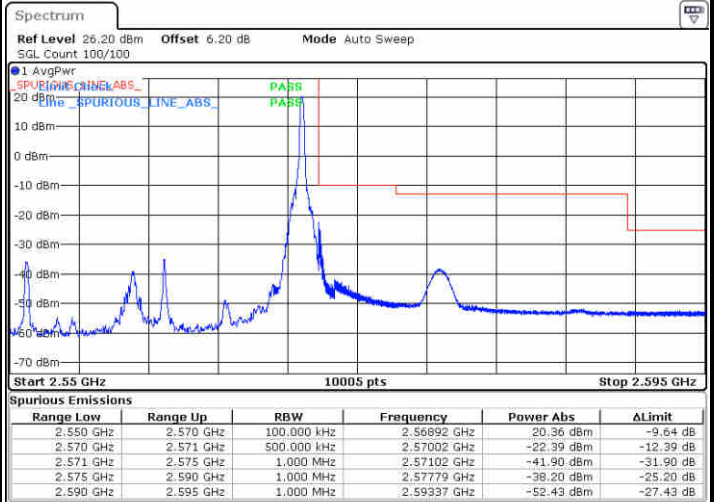
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



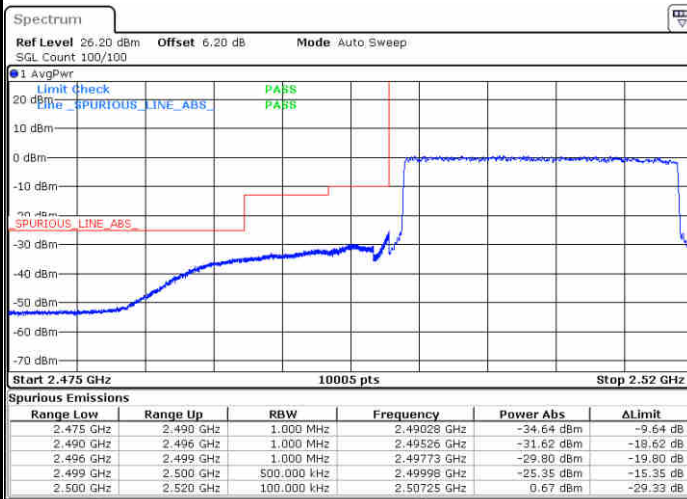
Date: 20.OCT.2019 02:53:46

Highest Band Edge / 1 RB



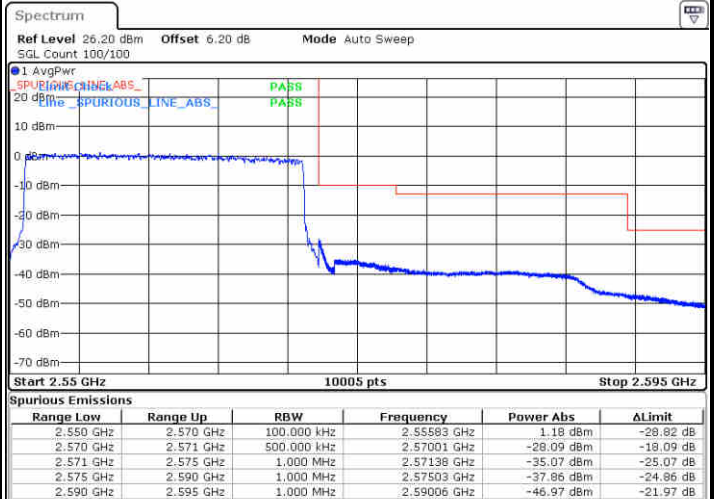
Date: 20.OCT.2019 03:01:43

Lowest Band Edge / Full RB



Date: 20.OCT.2019 02:57:11

Highest Band Edge / Full RB

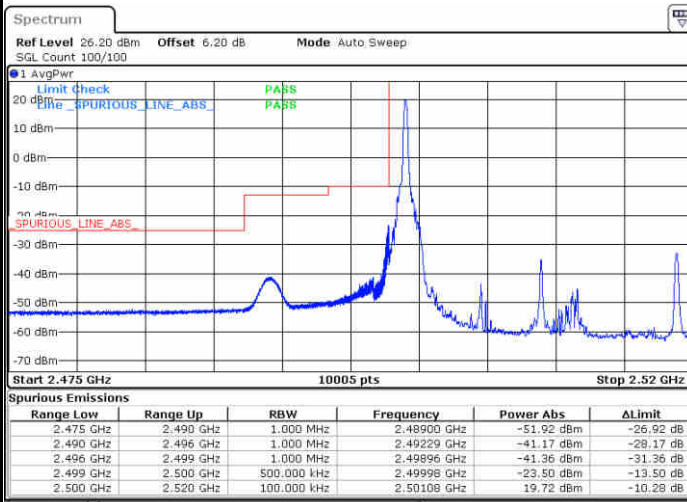


Date: 20.OCT.2019 02:58:19



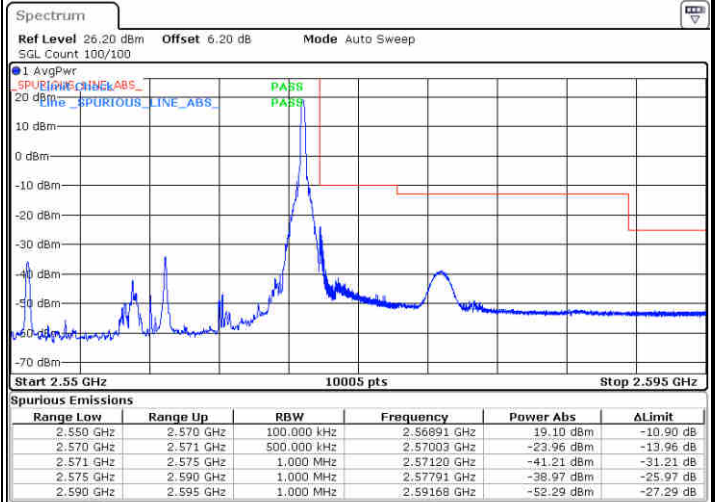
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



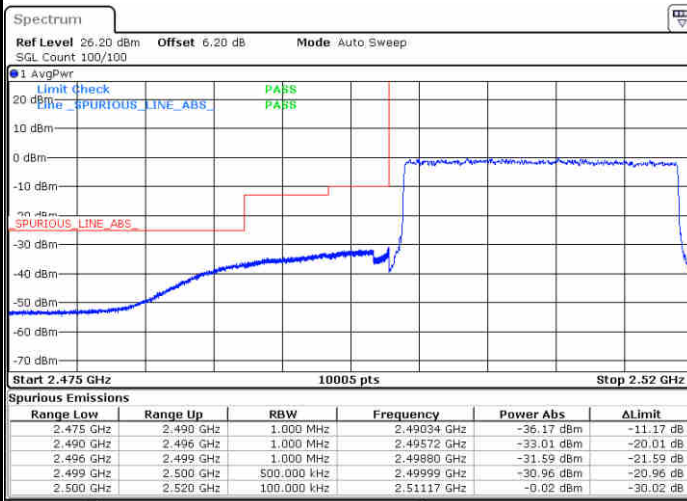
Date: 20.OCT.2019 02:54:54

Highest Band Edge / 1RB



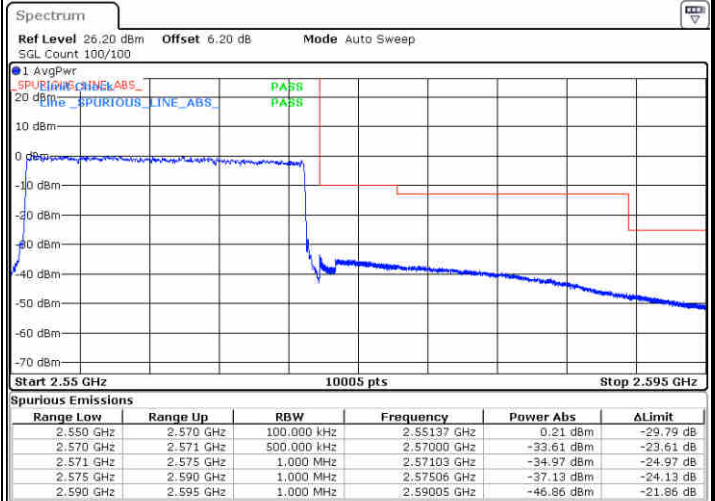
Date: 20.OCT.2019 03:00:35

Lowest Band Edge / Full RB



Date: 20.OCT.2019 02:56:03

Highest Band Edge / Full RB

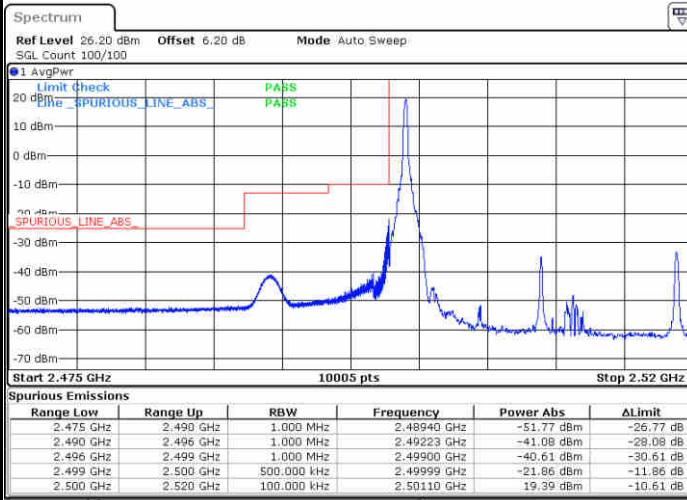


Date: 20.OCT.2019 02:59:27



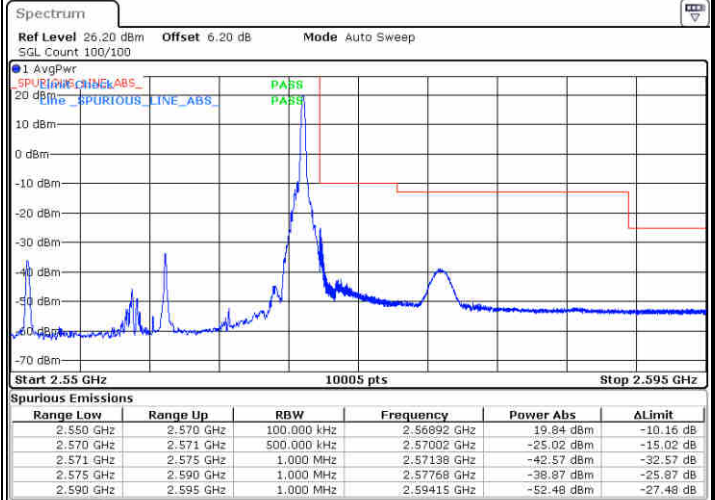
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



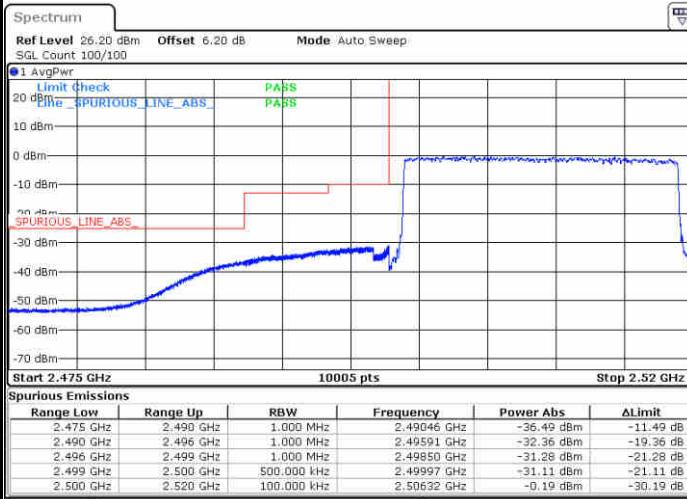
Date: 20.OCT.2019 03:35:06

Highest Band Edge / 1 RB



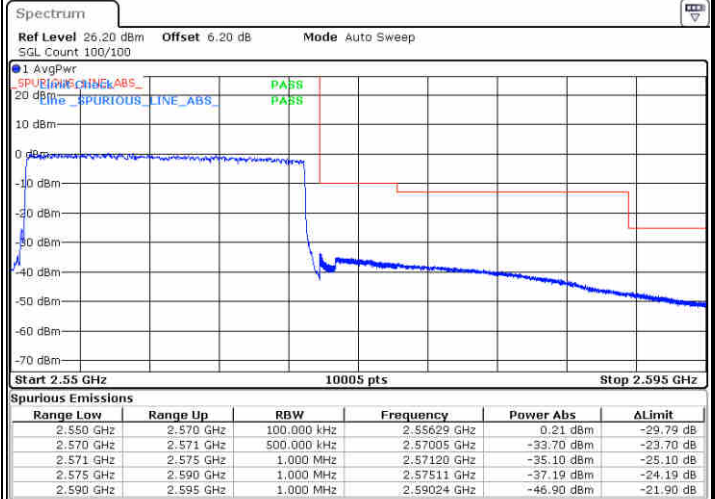
Date: 20.OCT.2019 03:37:22

Lowest Band Edge / Full RB



Date: 20.OCT.2019 03:33:57

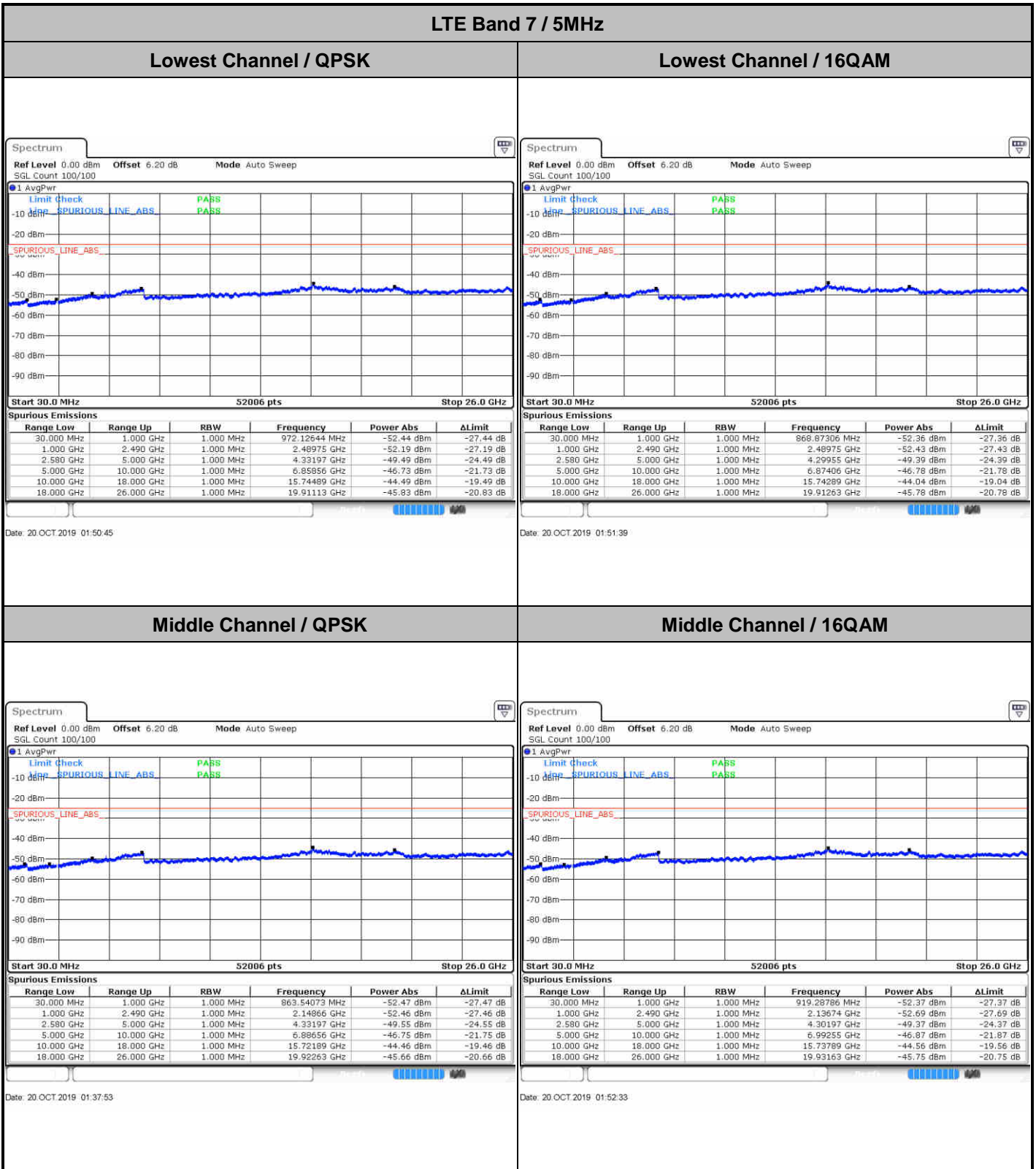
Highest Band Edge / Full RB



Date: 20.OCT.2019 03:36:14



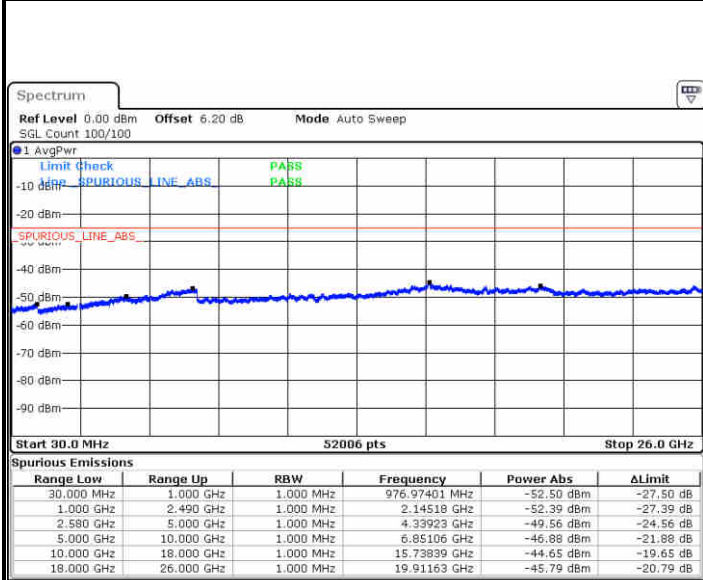
# Conducted Spurious Emission





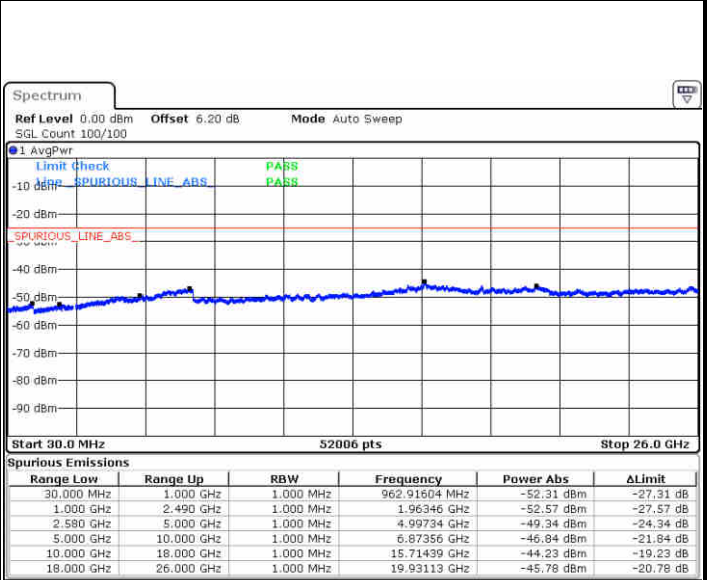
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 20.OCT.2019 01:53:27

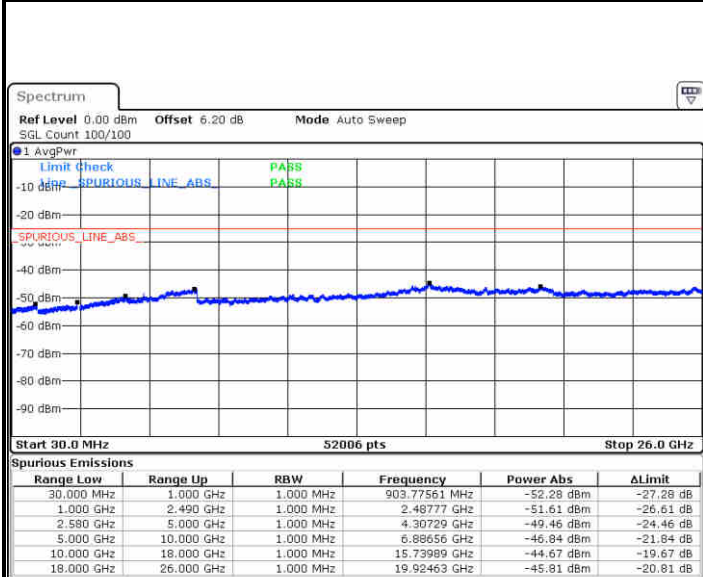
Highest Channel / 16QAM



Date: 20.OCT.2019 01:54:20

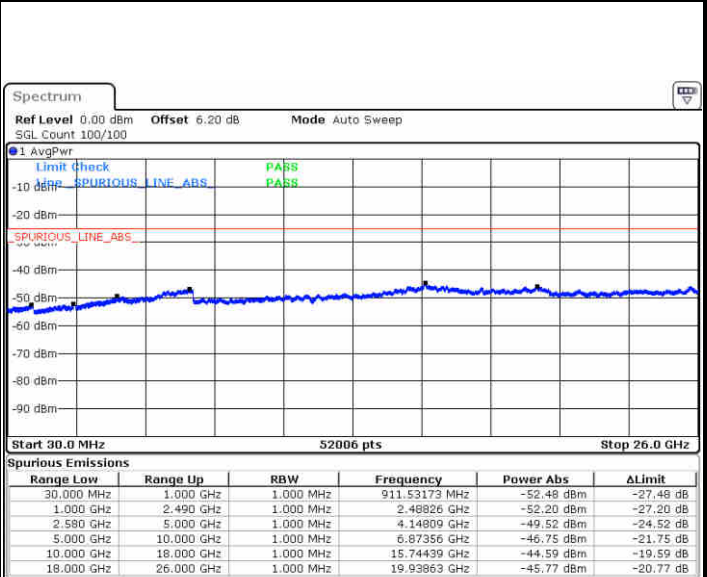
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 20.OCT.2019 02:29:39

Lowest Channel / 16QAM



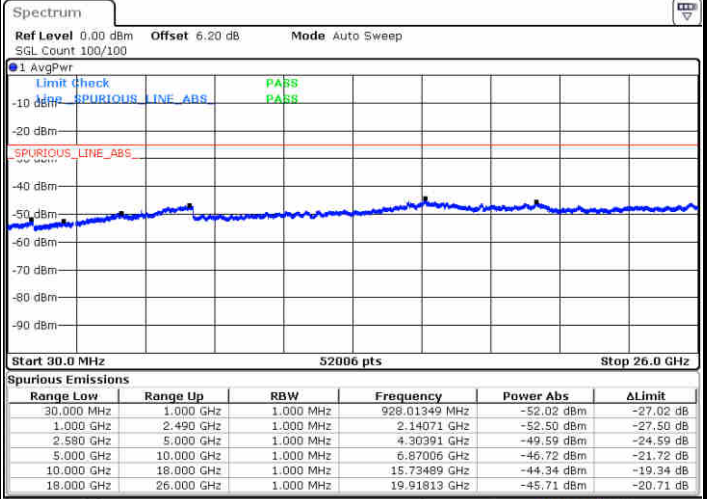
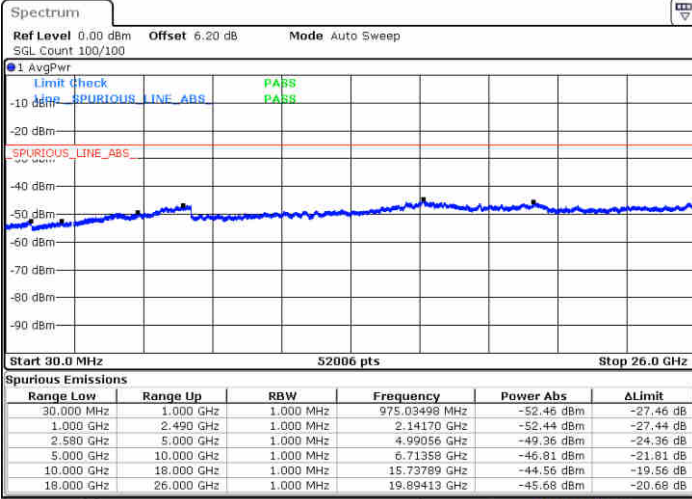
Date: 20.OCT.2019 02:30:32



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

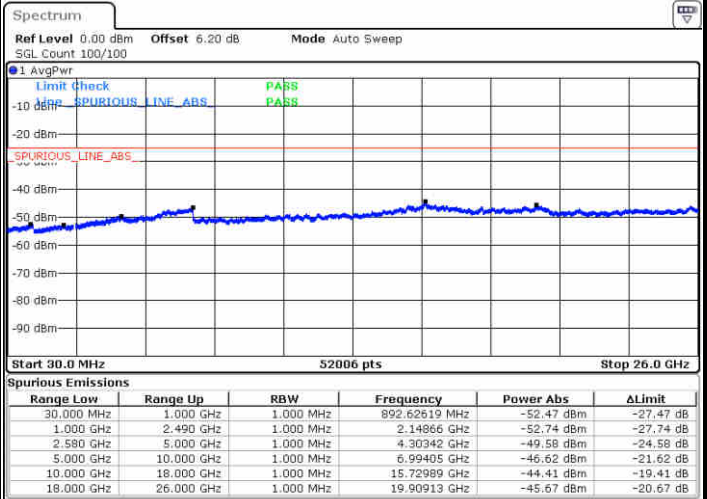
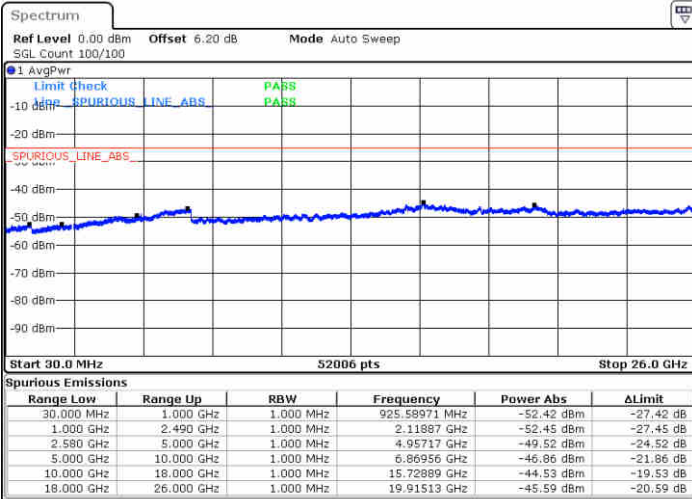


Date: 20.OCT.2019 02:32:20

Date: 20.OCT.2019 02:31:26

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20.OCT.2019 02:33:14

Date: 20.OCT.2019 02:34:07

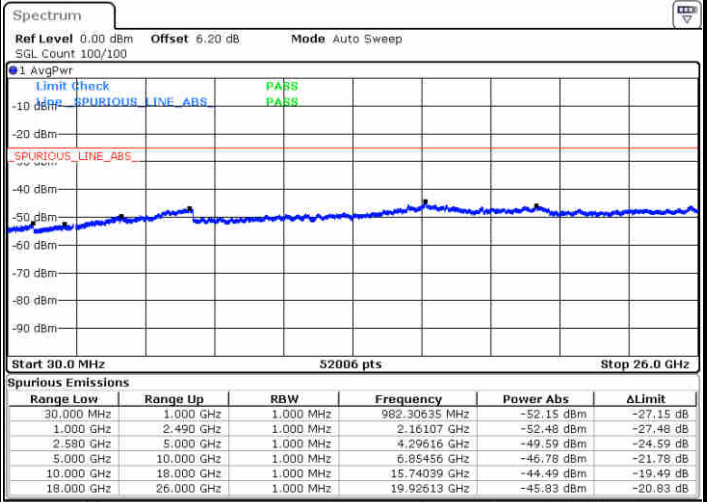
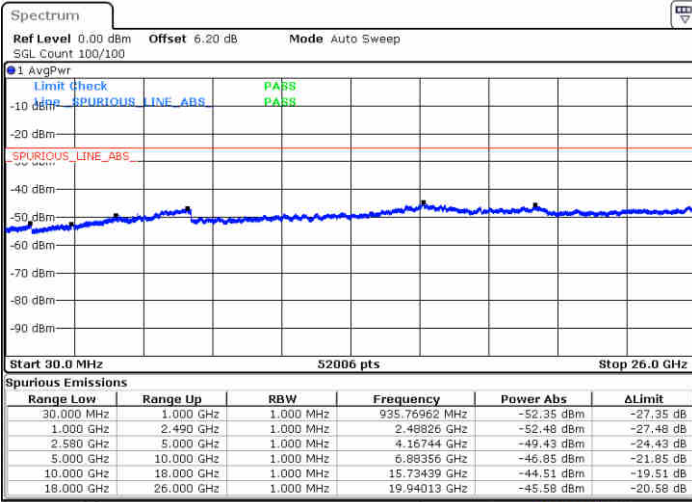




LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

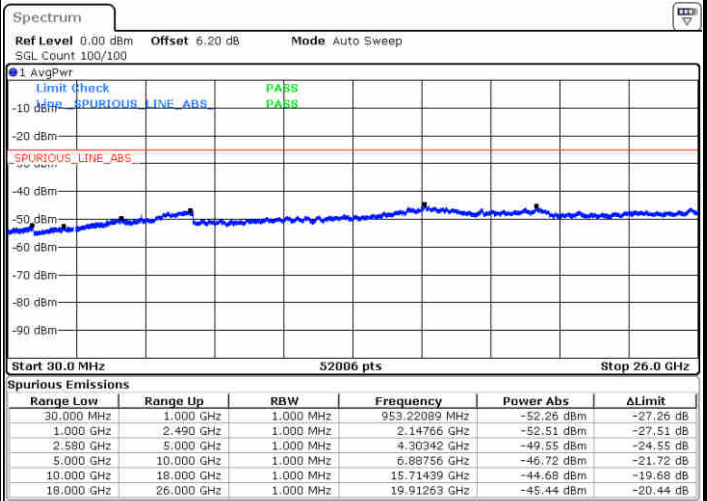
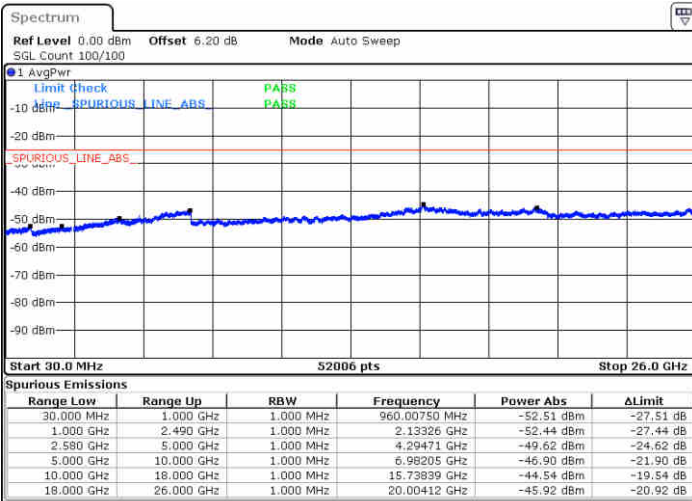


Date: 20.OCT.2019 02:46:07

Date: 20.OCT.2019 02:47:01

Middle Channel / QPSK

Middle Channel / 16QAM



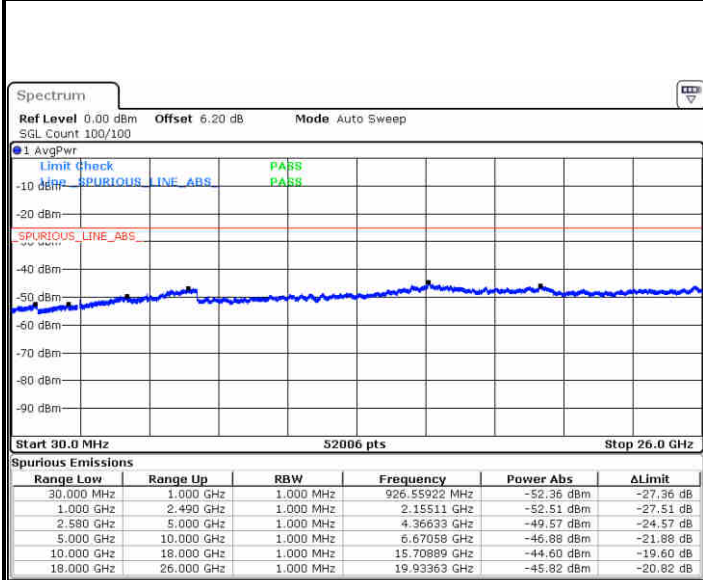
Date: 20.OCT.2019 02:48:48

Date: 20.OCT.2019 02:47:55



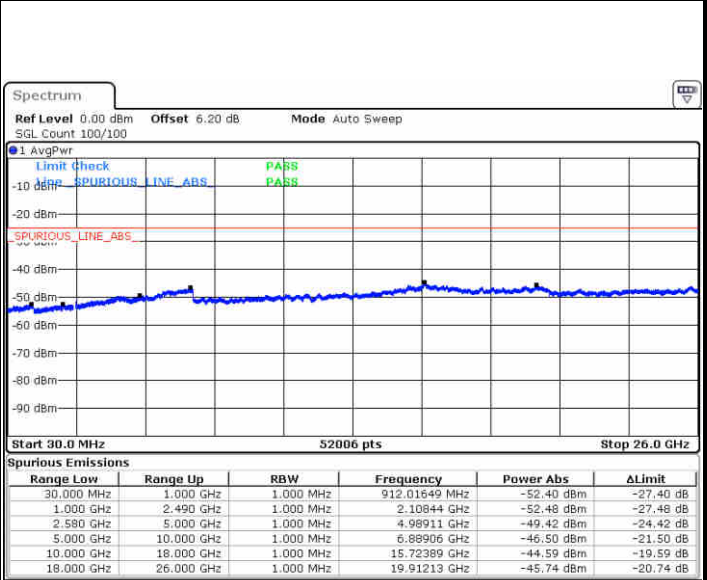
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 20.OCT.2019 02:49:42

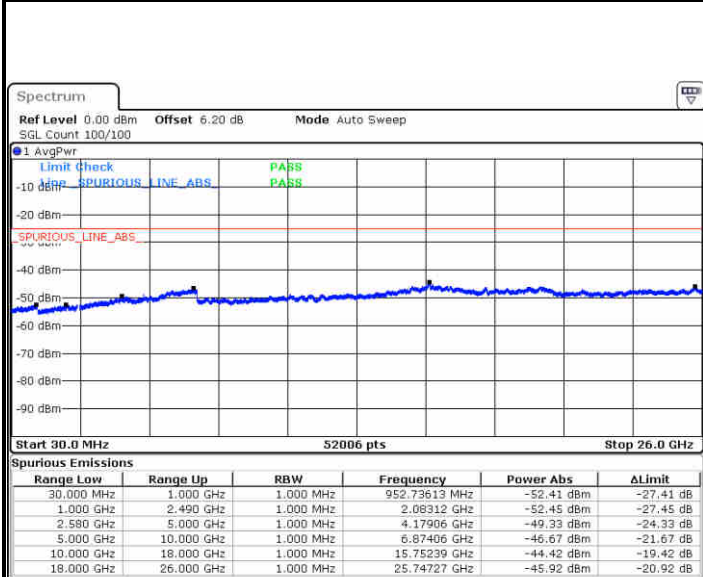
Highest Channel / 16QAM



Date: 20.OCT.2019 02:50:36

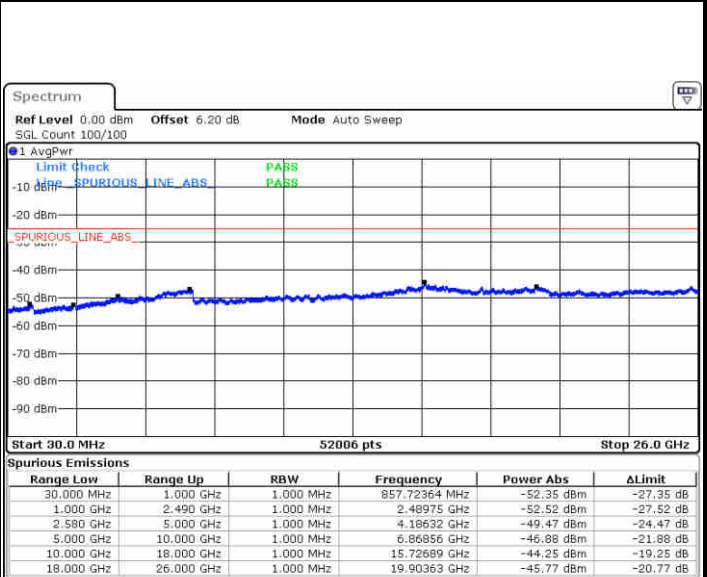
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 20.OCT.2019 03:02:36

Lowest Channel / 16QAM

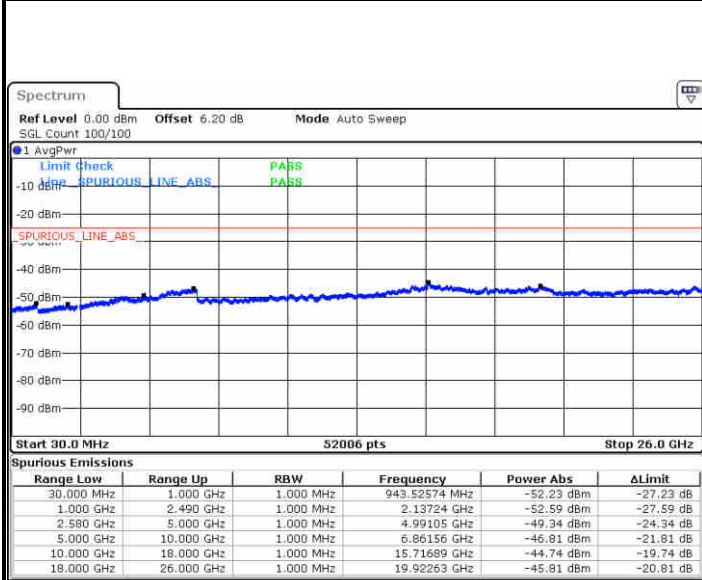


Date: 20.OCT.2019 03:03:29



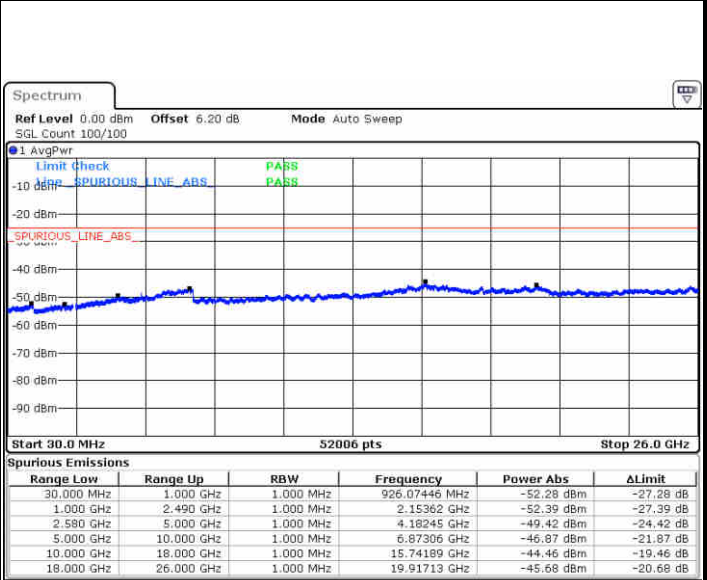
LTE Band 7 / 20MHz

Middle Channel / QPSK



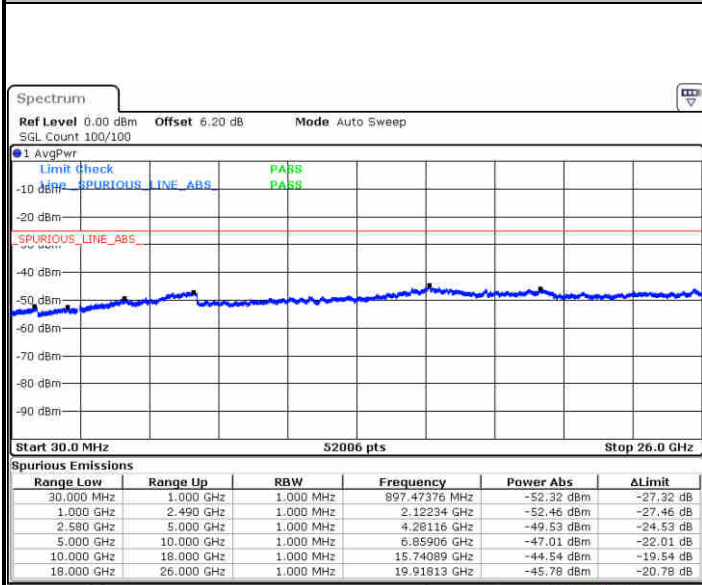
Date: 20.OCT.2019 03:05:17

Middle Channel / 16QAM



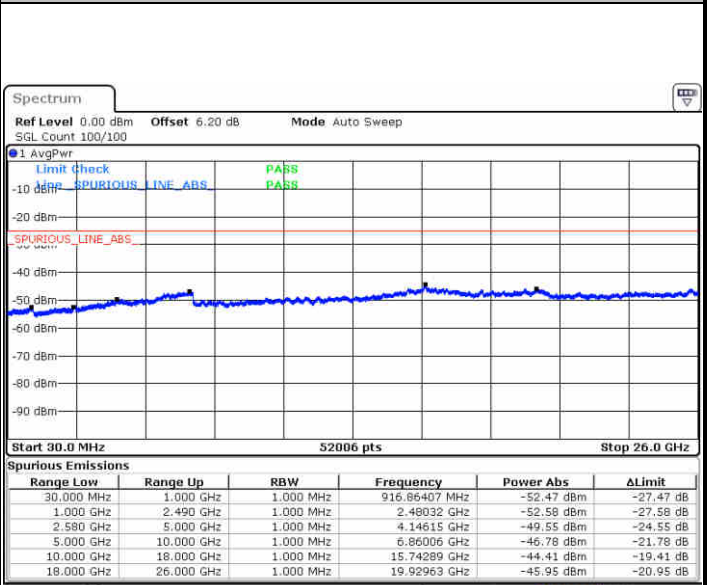
Date: 20.OCT.2019 03:04:23

Highest Channel / QPSK



Date: 20.OCT.2019 03:06:11

Highest Channel / 16QAM



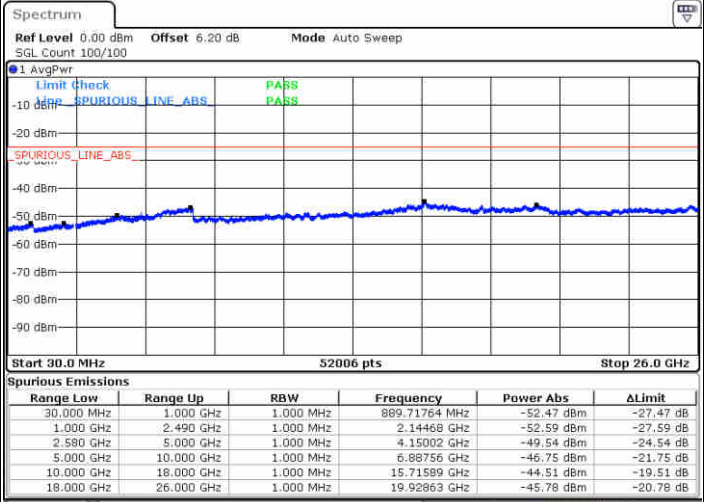
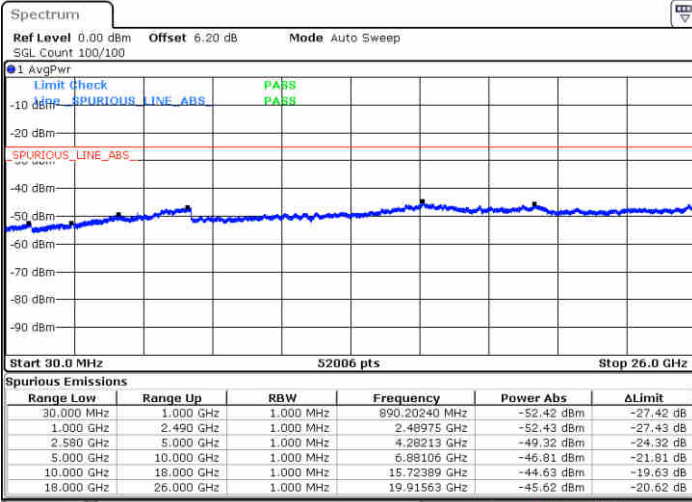
Date: 20.OCT.2019 03:07:05



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

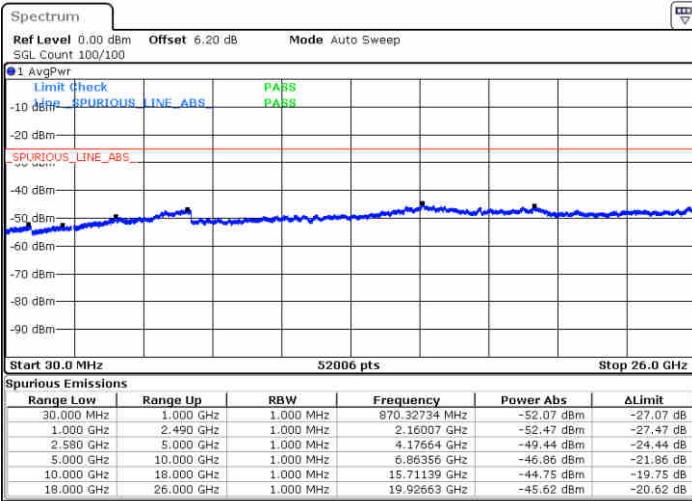
Middle Channel / 64QAM



Date: 20.OCT.2019 03:08:59

Date: 20.OCT.2019 03:09:52

Highest Channel / 64QAM

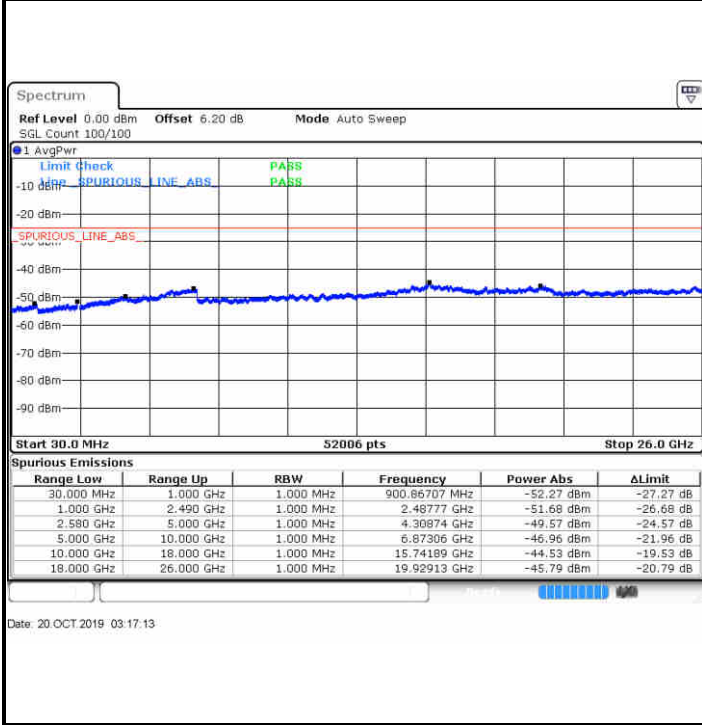


Date: 20.OCT.2019 03:10:46

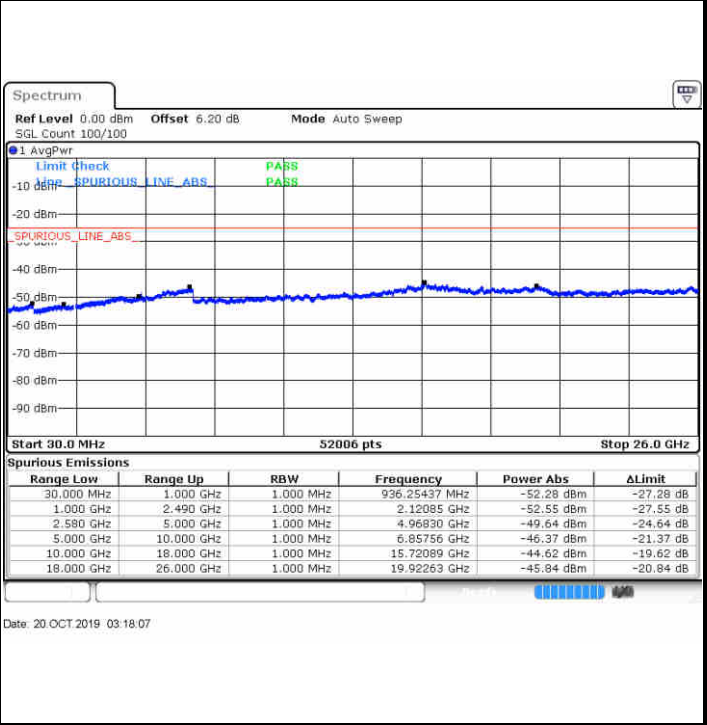


**LTE Band 7 / 10MHz**

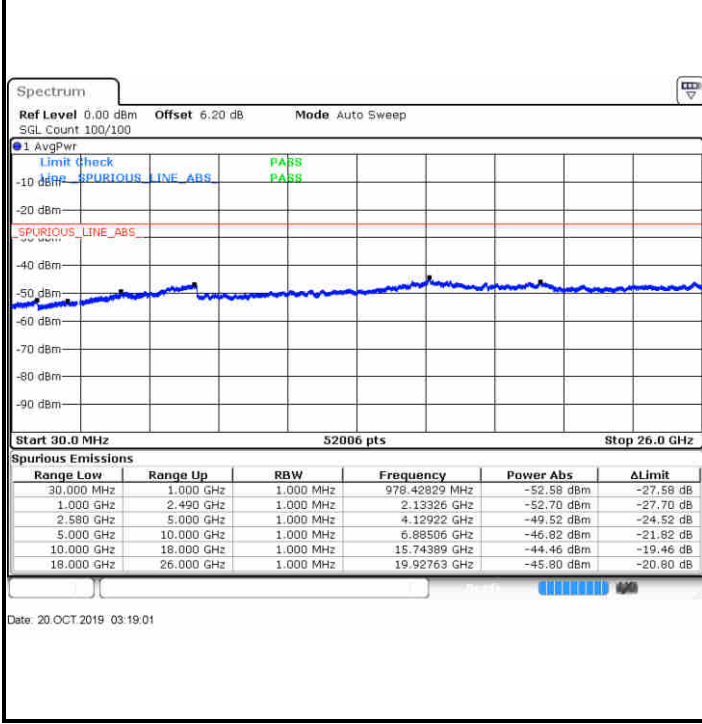
**Lowest Channel / 64QAM**



**Middle Channel / 64QAM**



**Highest Channel / 64QAM**



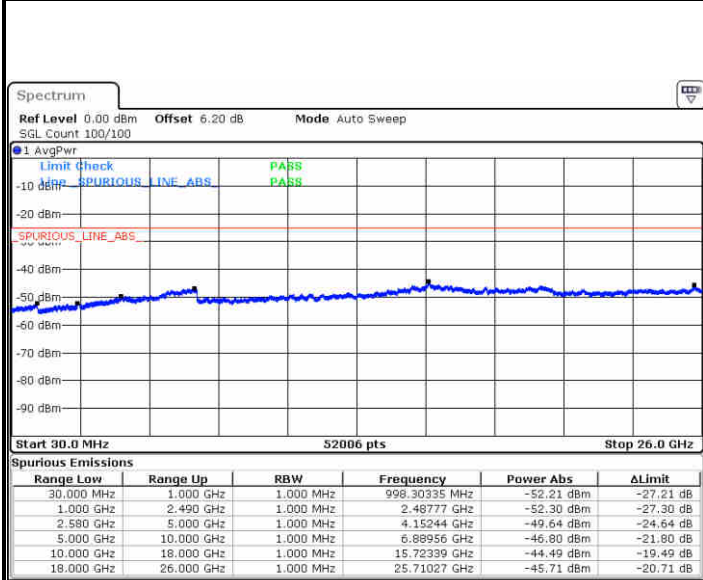
**Highest Channel / 64QAM**





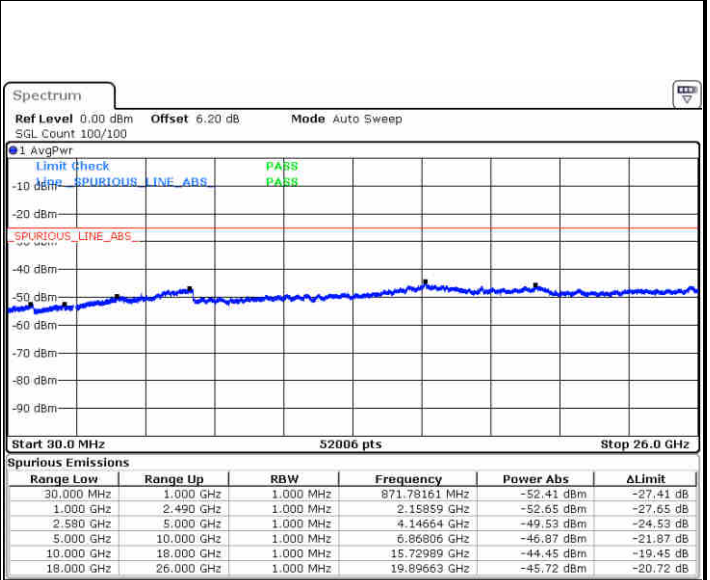
**LTE Band 7 / 15MHz**

**Lowest Channel / 64QAM**



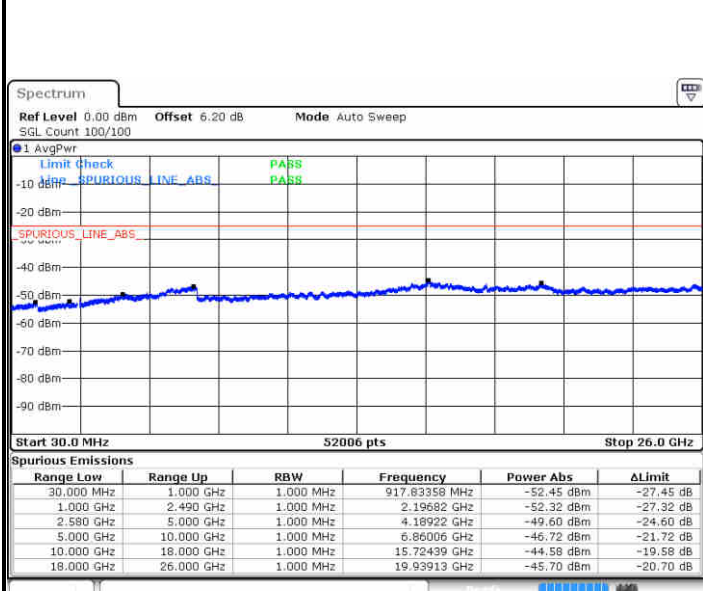
Date: 20.OCT.2019 03:30:00

**Middle Channel / 64QAM**



Date: 20.OCT.2019 03:30:54

**Highest Channel / 64QAM**

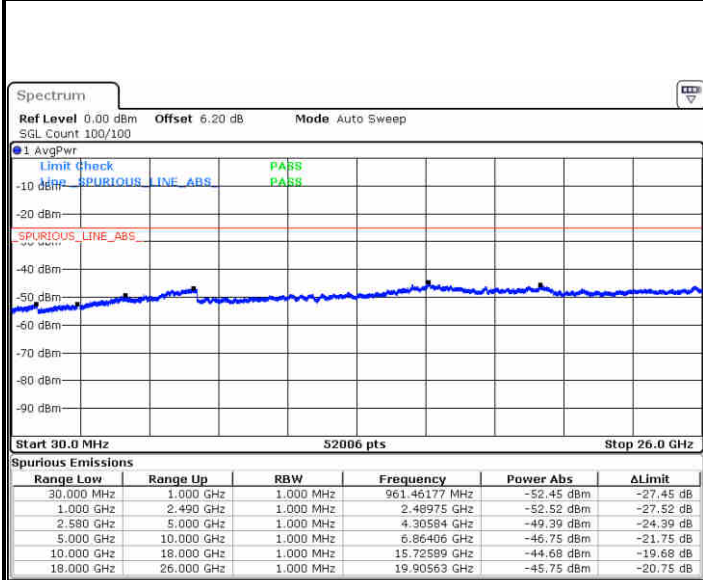


Date: 20.OCT.2019 03:31:48



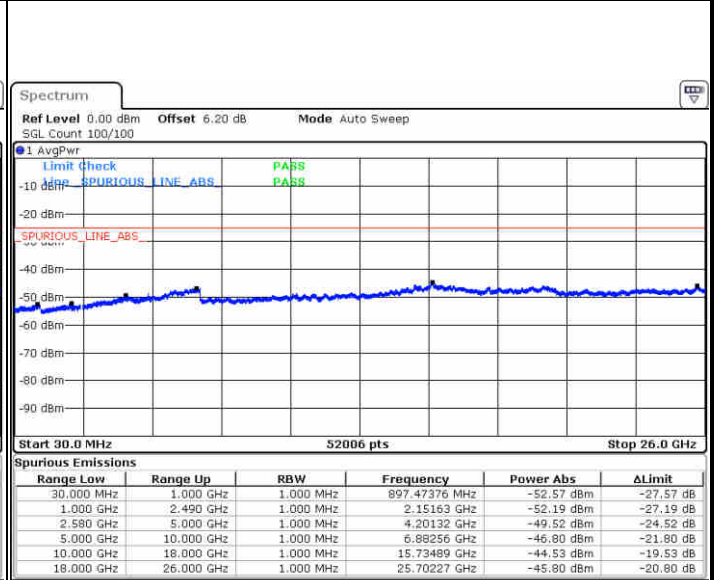
**LTE Band 7 / 20MHz**

**Lowest Channel / 64QAM**



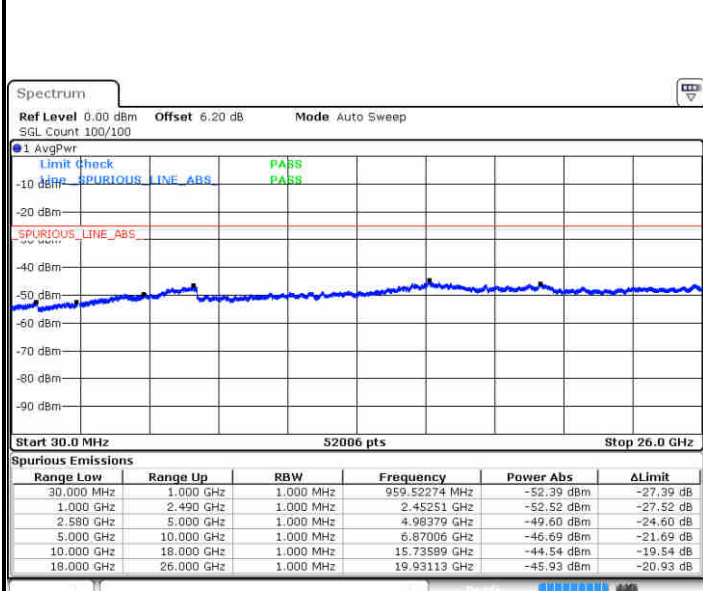
Date: 20.OCT.2019 03:38:14

**Middle Channel / 64QAM**



Date: 20.OCT.2019 03:39:08

**Highest Channel / 64QAM**



Date: 20.OCT.2019 03:40:02



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0033	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0037	

Note:

1. Normal Voltage =3.8 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 41

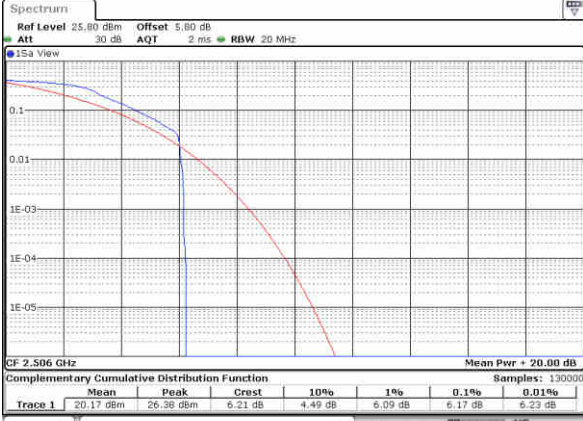
## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.17	4.67	5.42	6.17	<b>PASS</b>
Middle CH	4.72	4.35	5.22	5.88	
Highest CH	6.84	6.26	4.78	6.09	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	6.35	6.64	<b>PASS</b>		
Middle CH	6.35	6.73			
Highest CH	6.41	6.49			



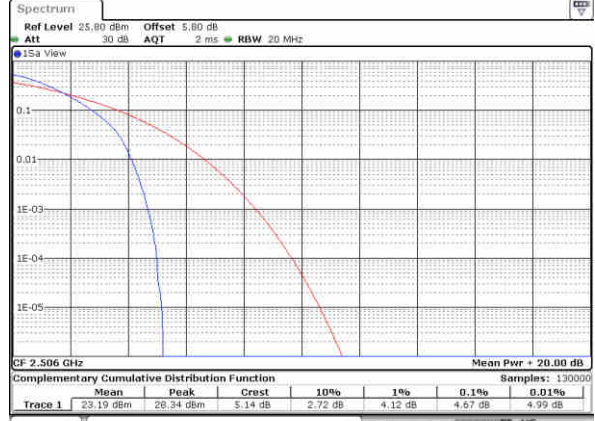
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



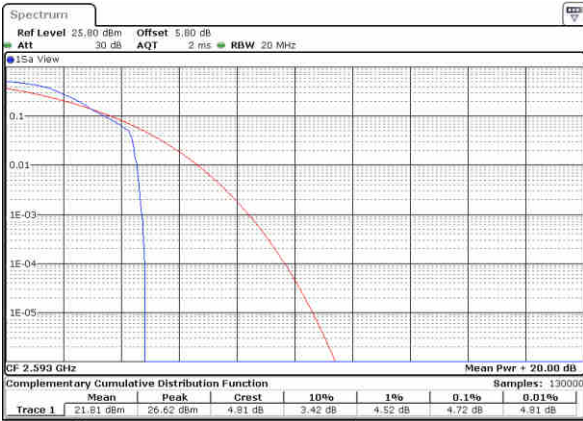
Date: 30.OCT.2019 13.36.54

Lowest Channel / Full RB



Date: 30.OCT.2019 13.37.13

Middle Channel / 1RB



Date: 30.OCT.2019 13.37.32

Middle Channel / Full RB



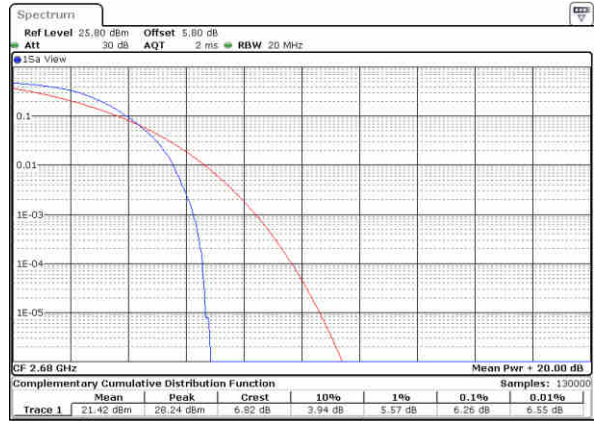
Date: 30.OCT.2019 13.37.55

Highest Channel / 1RB



Date: 30.OCT.2019 13.38.06

Highest Channel / Full RB

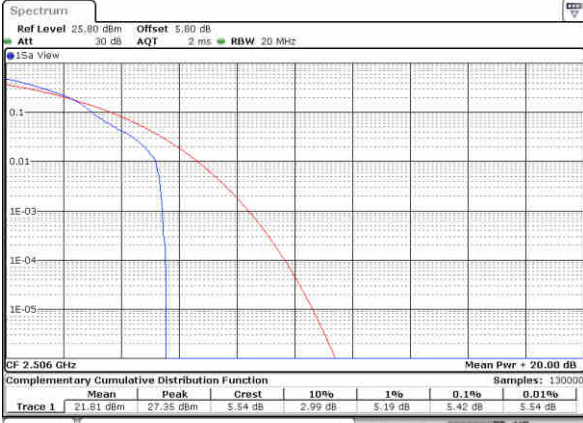


Date: 30.OCT.2019 13.38.16



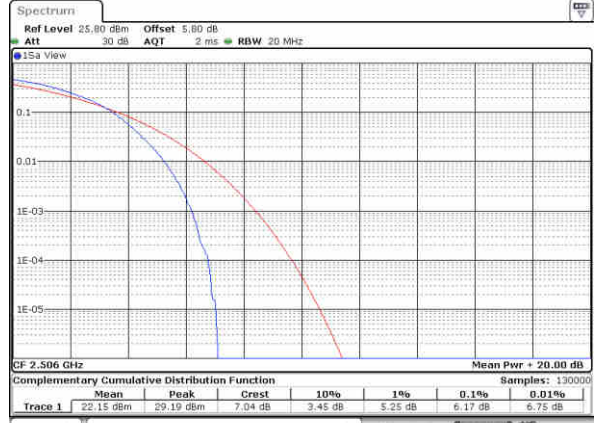
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



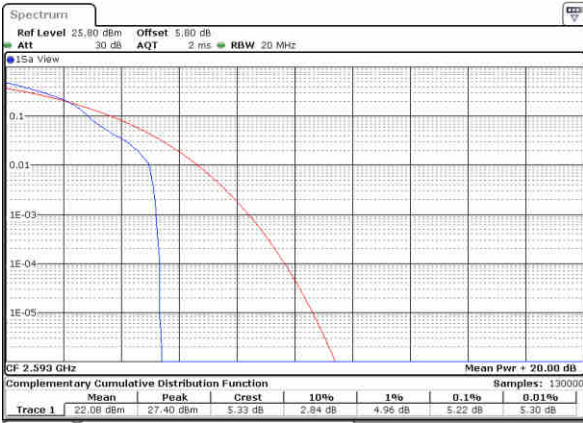
Date: 30.OCT.2019 13:35:01

Lowest Channel / Full RB



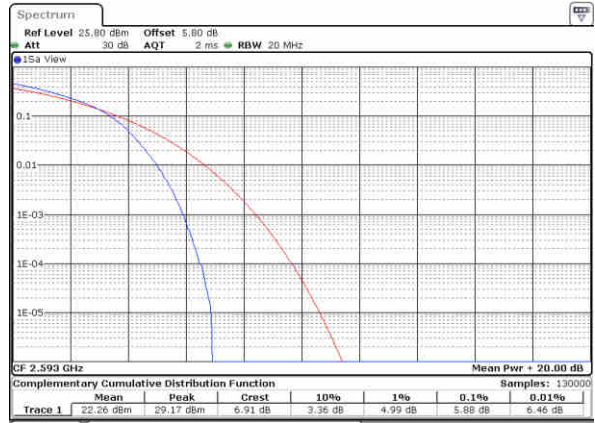
Date: 30.OCT.2019 13:35:36

Middle Channel / 1RB



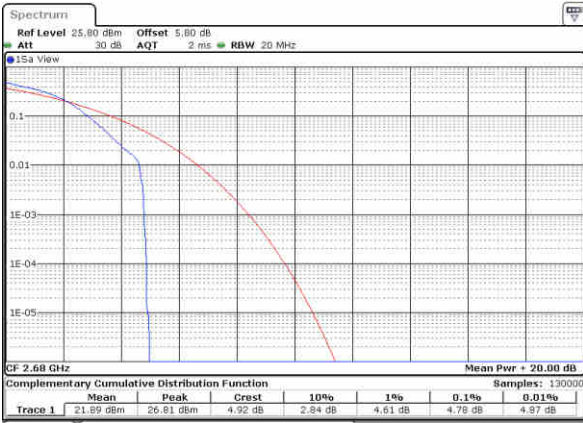
Date: 30.OCT.2019 13:35:59

Middle Channel / Full RB



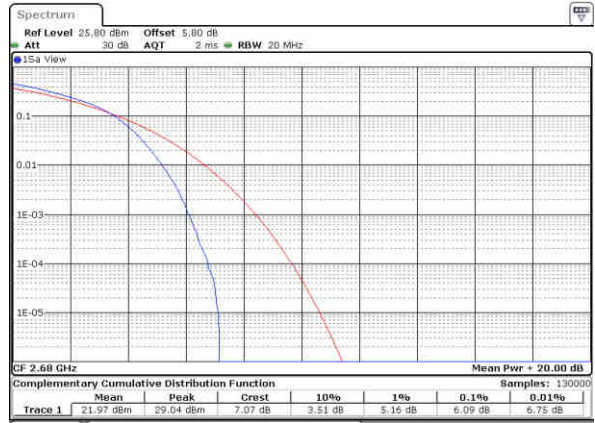
Date: 30.OCT.2019 13:36:09

Highest Channel / 1RB



Date: 30.OCT.2019 13:36:33

Highest Channel / Full RB



Date: 30.OCT.2019 13:36:44



LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



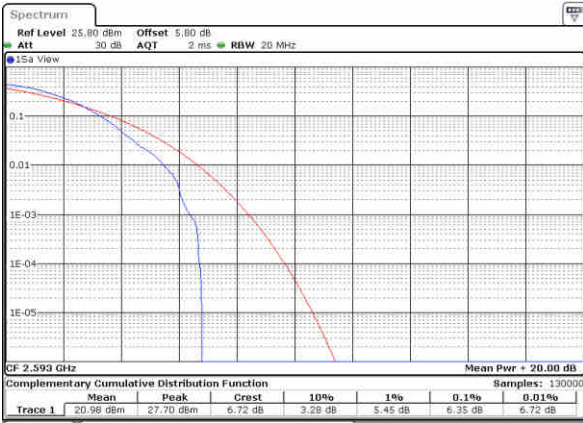
Date: 30.OCT.2019 13:39:06

Lowest Channel / Full RB



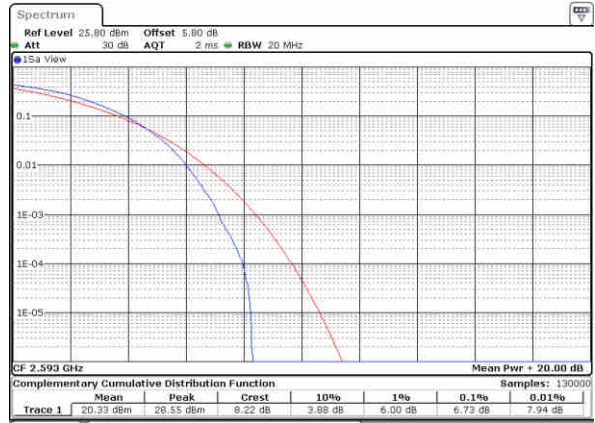
Date: 30.OCT.2019 13:38:55

Middle Channel / 1RB



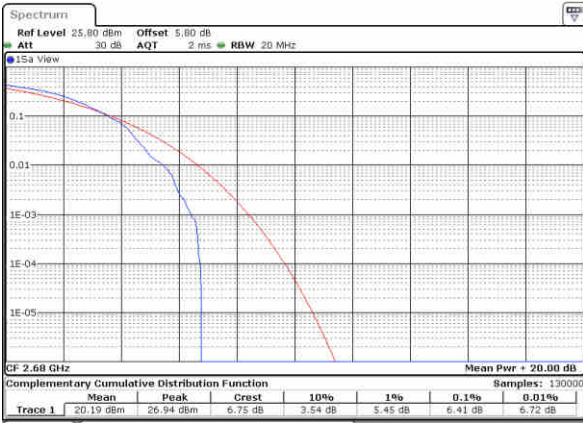
Date: 30.OCT.2019 13:39:30

Middle Channel / Full RB



Date: 30.OCT.2019 13:39:40

Highest Channel / 1RB



Date: 30.OCT.2019 13:40:19

Highest Channel / Full RB



Date: 30.OCT.2019 13:40:02



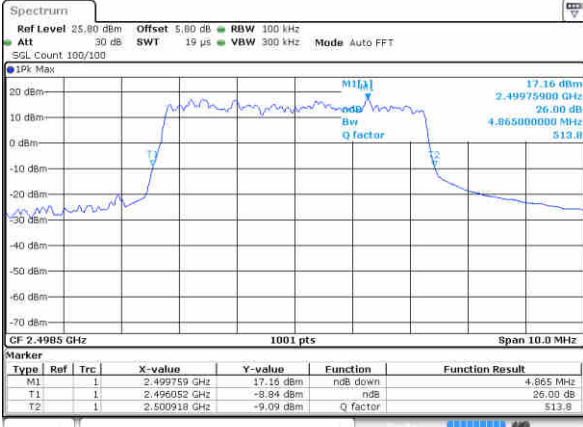
**26dB Bandwidth**

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.865	4.815	9.69	9.73	14.206	14.326	20.02	20.06
Middle CH	-	-	-	-	4.895	4.775	9.85	9.83	14.236	14.146	20.06	19.98
Highest CH	-	-	-	-	4.875	4.885	9.61	9.65	14.505	14.236	20.10	20.02
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-		-		4.865		9.79		14.386		20.06	
Middle CH	-		-		4.835		9.69		14.206		20.06	
Highest CH	-		-		4.705		9.71		14.326		20.06	



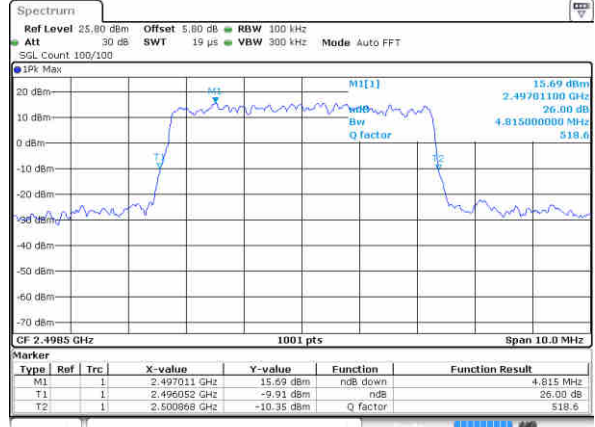
LTE Band 41

Lowest Channel / 5MHz / QPSK



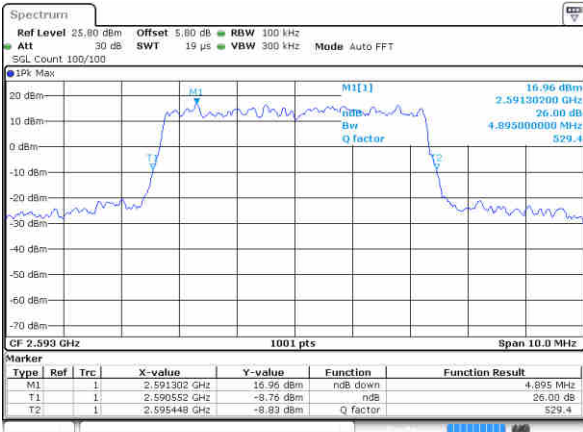
Date: 30.OCT.2019 11:54:36

Lowest Channel / 5MHz / 16QAM



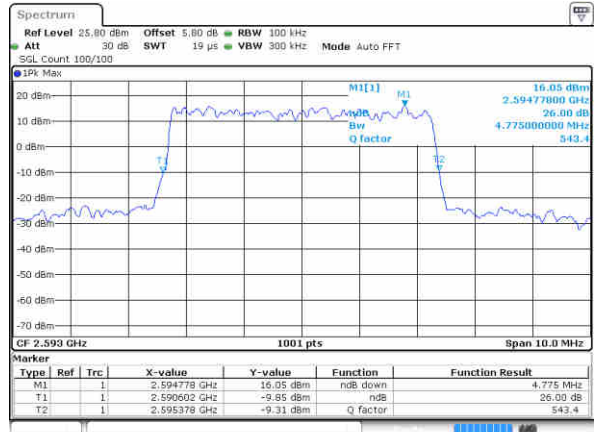
Date: 30.OCT.2019 11:54:46

Middle Channel / 5MHz / QPSK



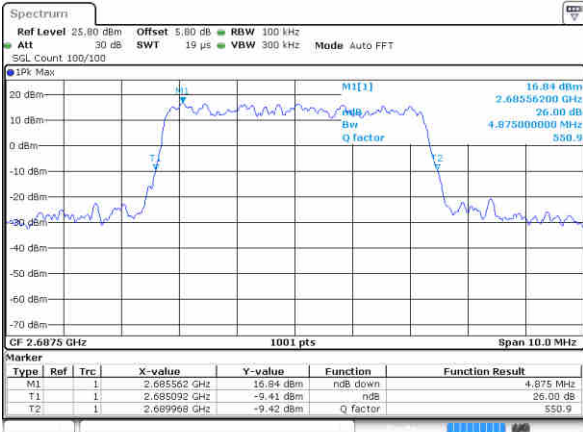
Date: 30.OCT.2019 11:55:17

Middle Channel / 5MHz / 16QAM



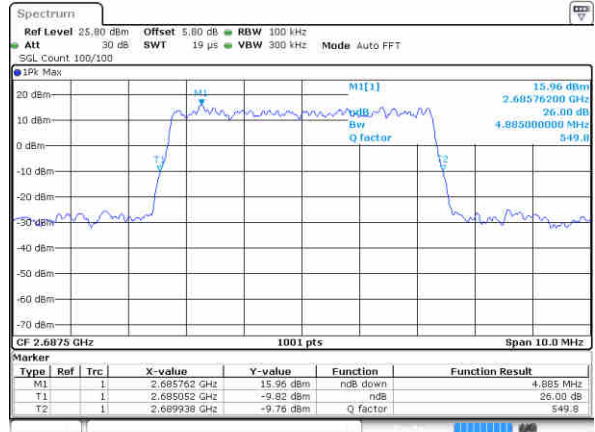
Date: 30.OCT.2019 11:55:27

Highest Channel / 5MHz / QPSK



Date: 30.OCT.2019 11:55:57

Highest Channel / 5MHz / 16QAM

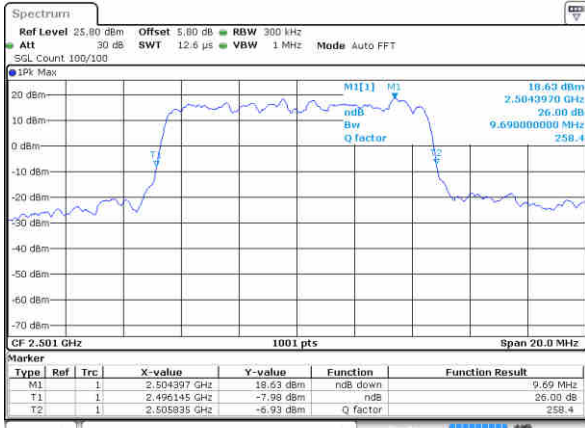


Date: 30.OCT.2019 11:56:07



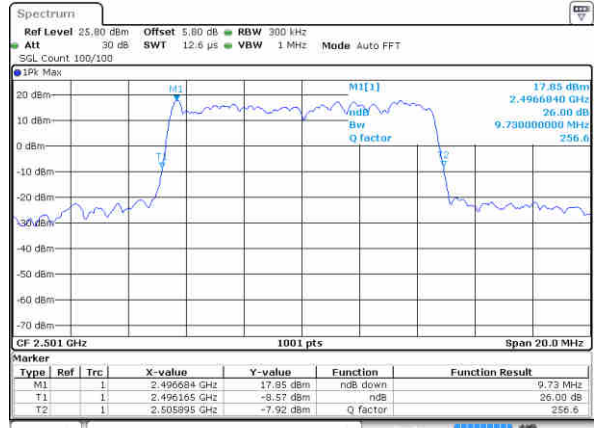
LTE Band 41

Lowest Channel / 10MHz / QPSK



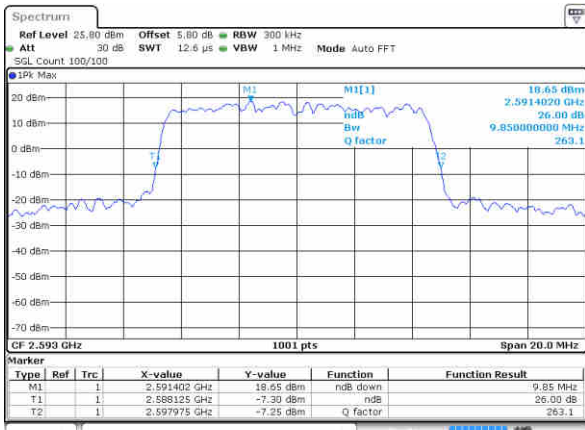
Date: 30.OCT.2019 11:56:37

Lowest Channel / 10MHz / 16QAM



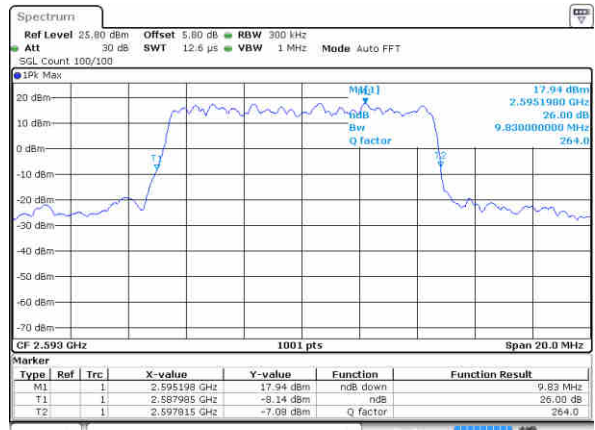
Date: 30.OCT.2019 11:56:47

Middle Channel / 10MHz / QPSK



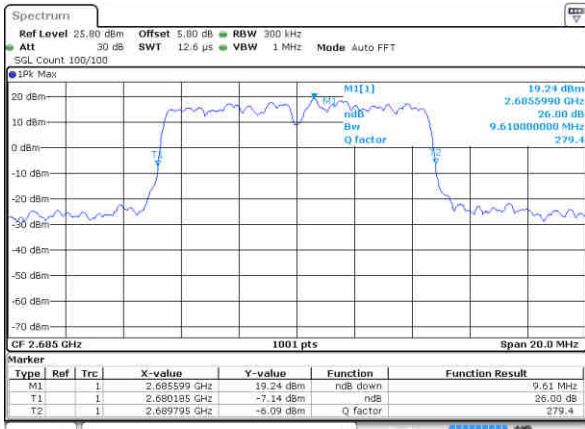
Date: 30.OCT.2019 11:57:18

Middle Channel / 10MHz / 16QAM



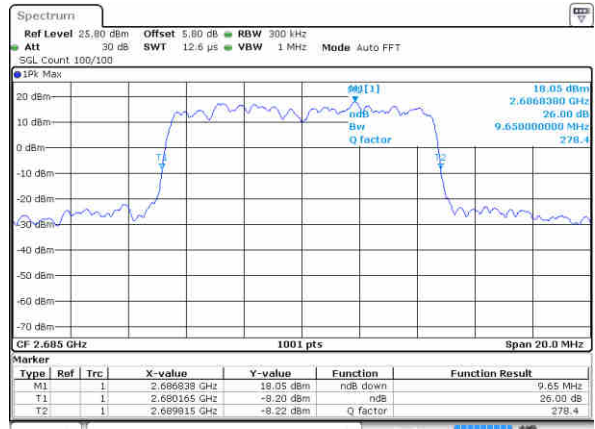
Date: 30.OCT.2019 11:57:28

Highest Channel / 10MHz / QPSK



Date: 30.OCT.2019 11:57:58

Highest Channel / 10MHz / 16QAM

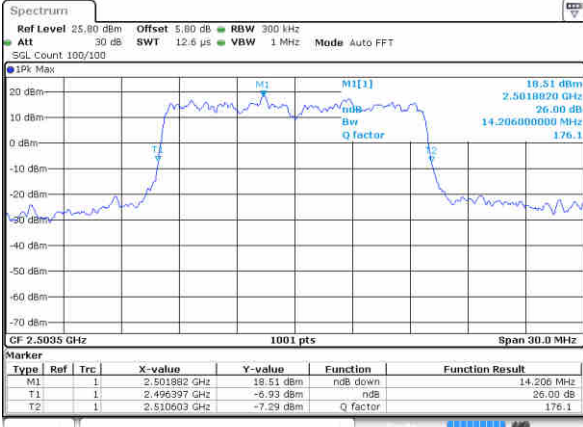


Date: 30.OCT.2019 11:58:08



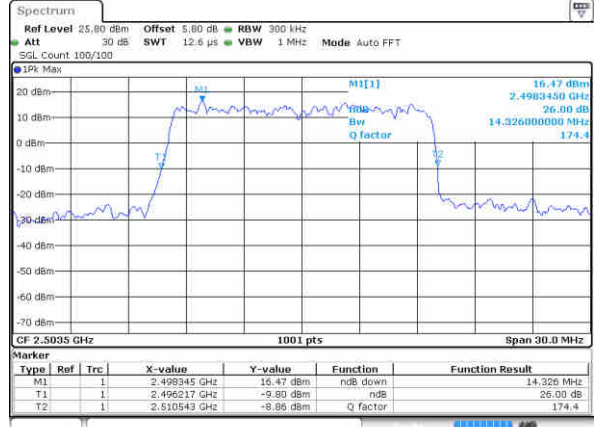
LTE Band 41

Lowest Channel / 15MHz / QPSK



Date: 30.OCT.2019 11:58:38

Lowest Channel / 15MHz / 16QAM



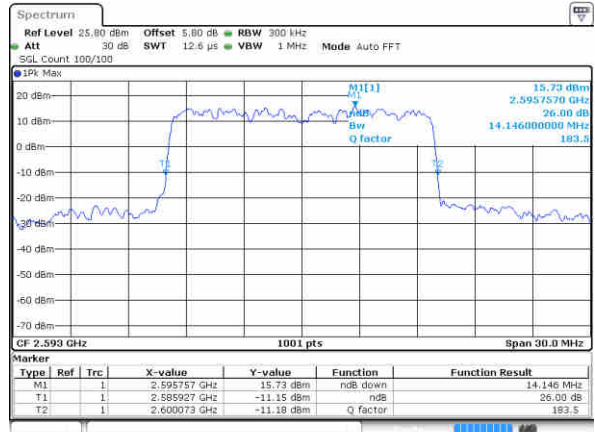
Date: 30.OCT.2019 11:58:48

Middle Channel / 15MHz / QPSK



Date: 30.OCT.2019 11:59:18

Middle Channel / 15MHz / 16QAM



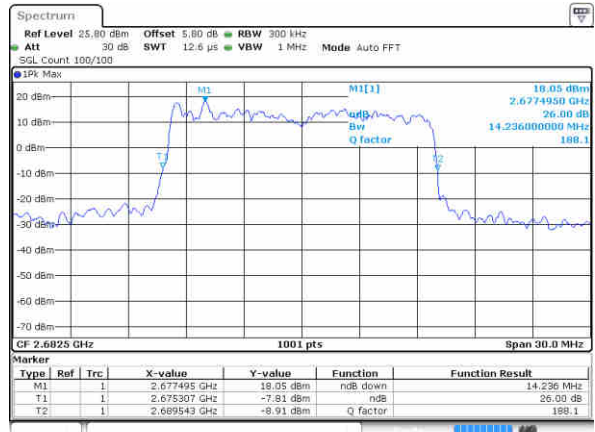
Date: 30.OCT.2019 11:59:28

Highest Channel / 15MHz / QPSK



Date: 30.OCT.2019 11:59:58

Highest Channel / 15MHz / 16QAM



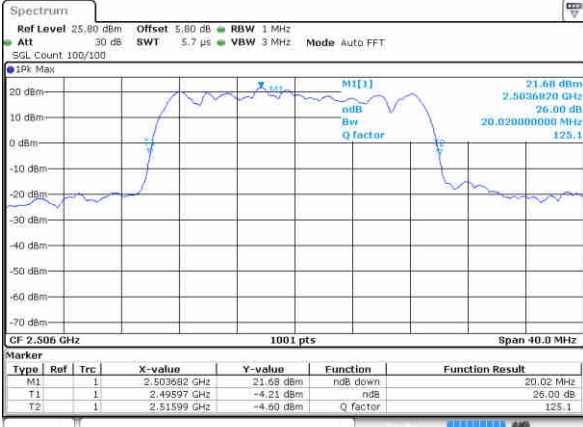
Date: 30.OCT.2019 12:00:08





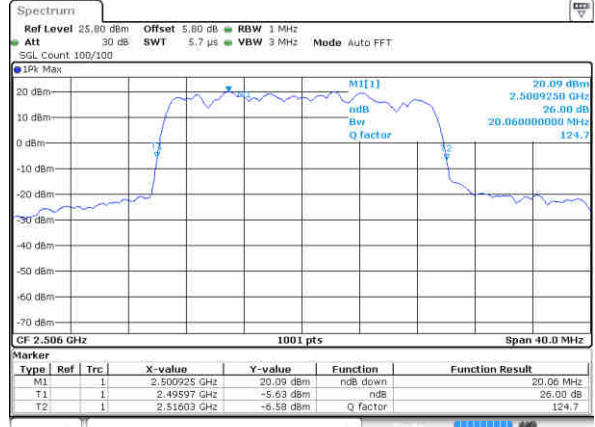
LTE Band 41

Lowest Channel / 20MHz / QPSK



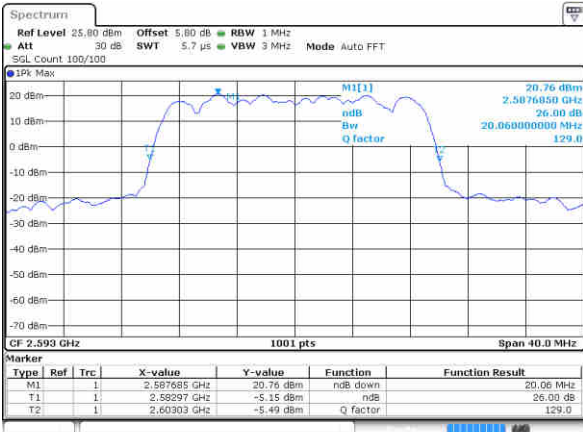
Date: 30.OCT.2019 12:00:39

Lowest Channel / 20MHz / 16QAM



Date: 30.OCT.2019 12:00:49

Middle Channel / 20MHz / QPSK



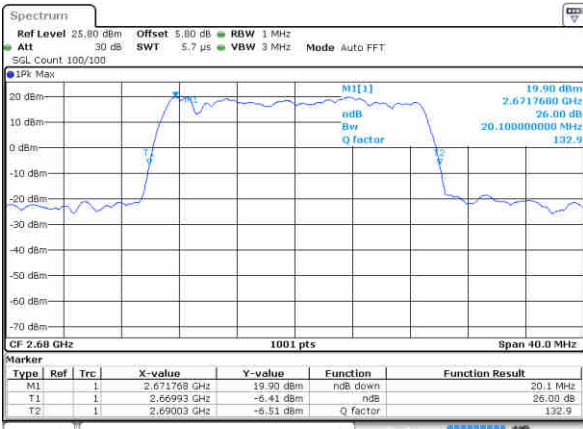
Date: 30.OCT.2019 12:01:19

Middle Channel / 20MHz / 16QAM



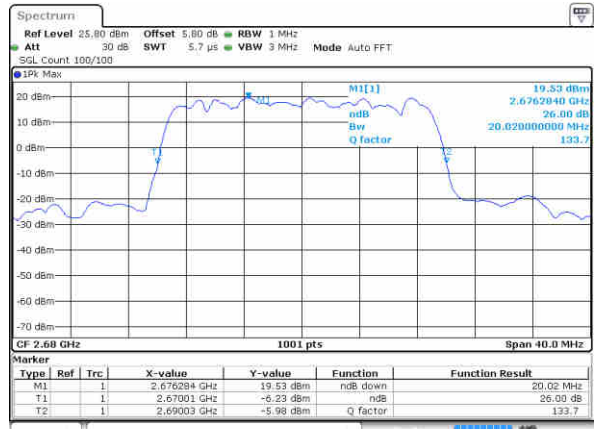
Date: 30.OCT.2019 12:01:28

Highest Channel / 20MHz / QPSK



Date: 30.OCT.2019 12:01:58

Highest Channel / 20MHz / 16QAM

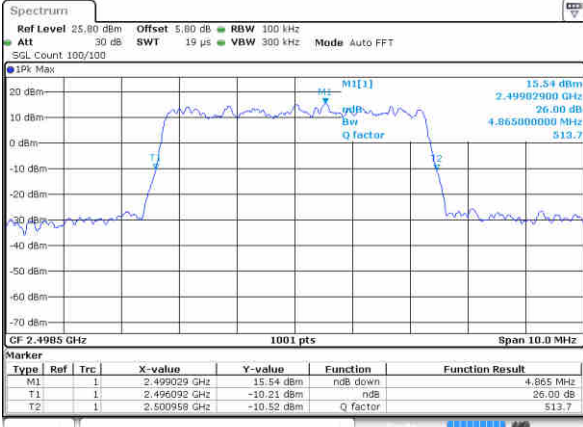


Date: 30.OCT.2019 12:02:08



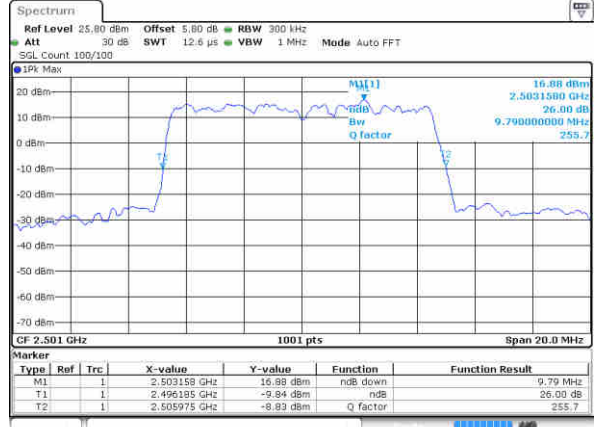
LTE Band 41

Lowest Channel / 5MHz / 64QAM



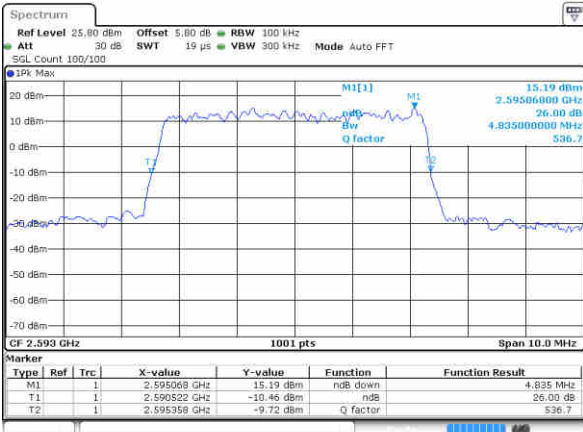
Date: 30.OCT.2019 12:02:28

Lowest Channel / 10MHz / 64QAM



Date: 30.OCT.2019 12:03:29

Middle Channel / 5MHz / 64QAM



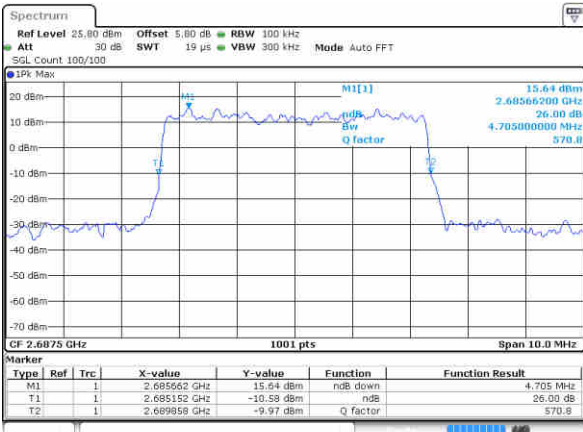
Date: 30.OCT.2019 12:02:48

Middle Channel / 10MHz / 64QAM



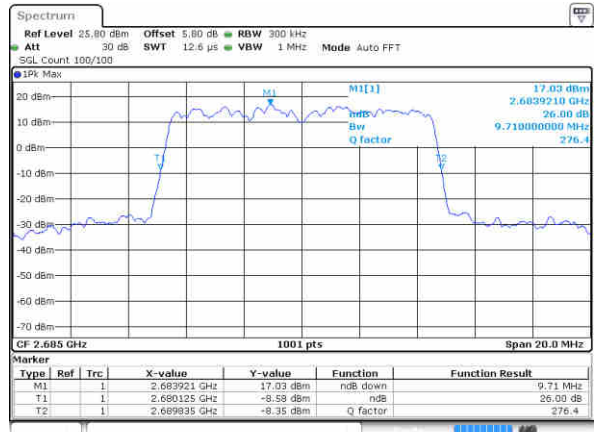
Date: 30.OCT.2019 12:03:48

Highest Channel / 5MHz / 64QAM



Date: 30.OCT.2019 12:03:09

Highest Channel / 10MHz / 64QAM

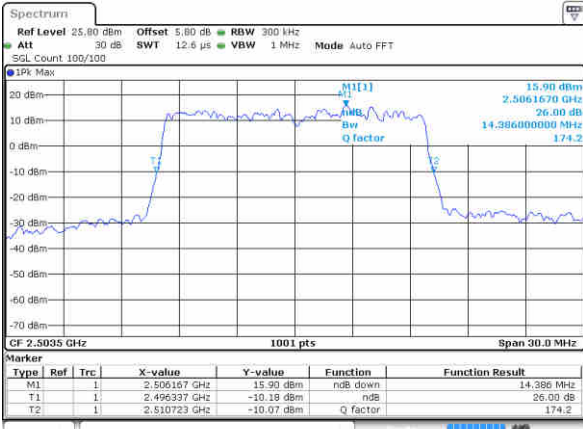


Date: 30.OCT.2019 12:04:09



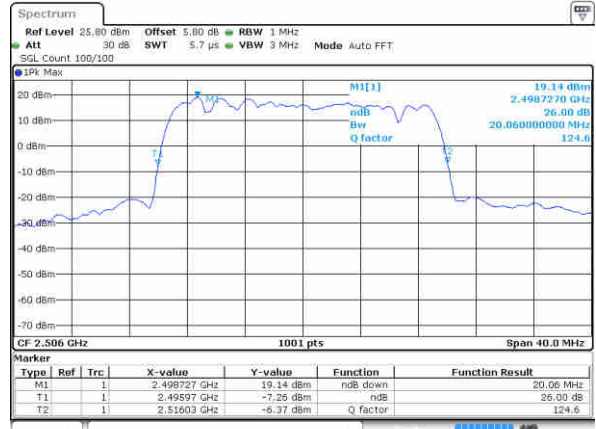
LTE Band 41

Lowest Channel / 15MHz / 64QAM



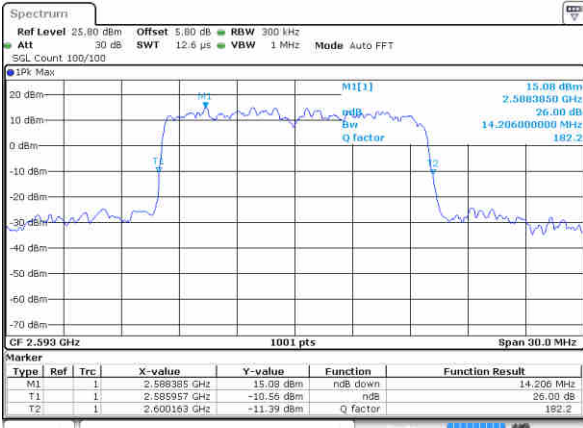
Date: 30.OCT.2019 12:04:29

Lowest Channel / 20MHz / 64QAM



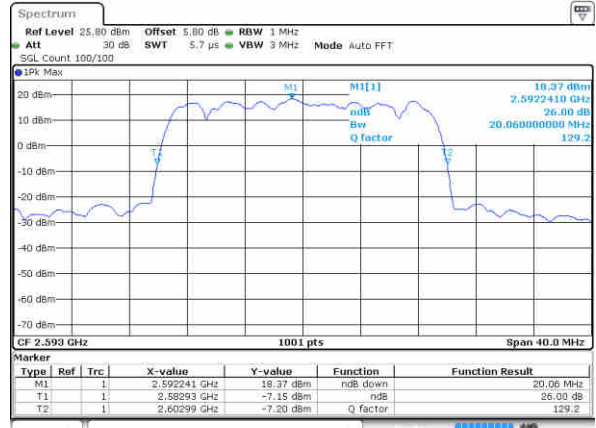
Date: 30.OCT.2019 12:05:30

Middle Channel / 15MHz / 64QAM



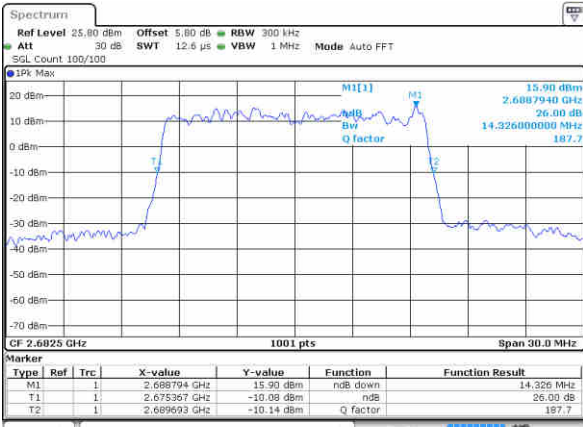
Date: 30.OCT.2019 12:04:49

Middle Channel / 20MHz / 64QAM



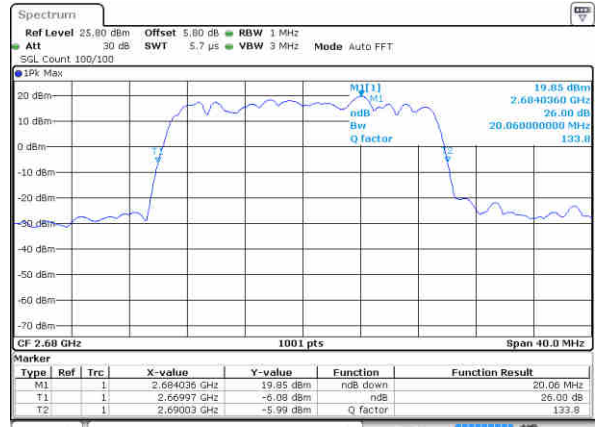
Date: 30.OCT.2019 12:05:50

Highest Channel / 15MHz / 64QAM



Date: 30.OCT.2019 12:05:09

Highest Channel / 20MHz / 64QAM



Date: 30.OCT.2019 12:06:10



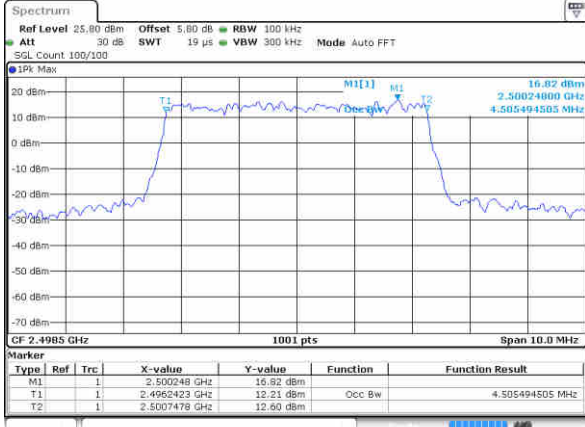
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.51	9.01	9.07	13.49	13.43	18.14	18.34
Middle CH	-	-	-	-	4.53	4.49	9.03	8.99	13.46	13.43	18.38	18.46
Highest CH	-	-	-	-	4.54	4.48	9.03	9.03	13.43	13.43	18.30	17.98
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-		-		4.52		8.99		13.40		18.26	
Middle CH	-		-		4.49		9.03		13.40		18.42	
Highest CH	-		-		4.52		9.01		13.43		18.34	



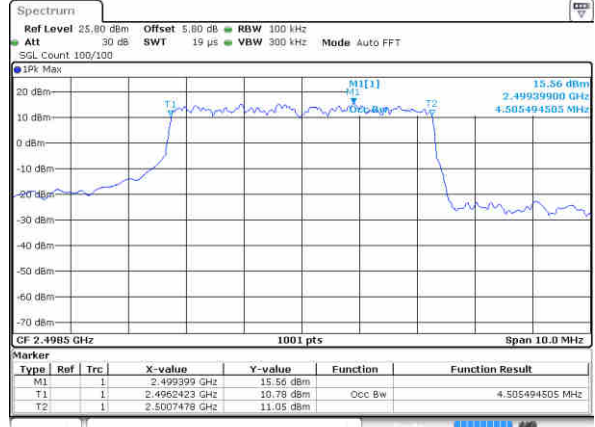
LTE Band 41

Lowest Channel / 5MHz / QPSK



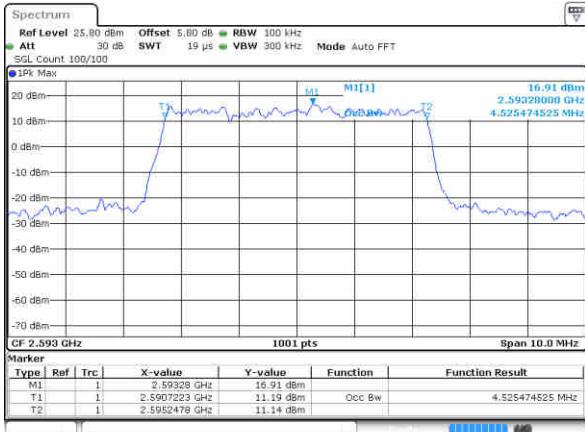
Date: 30.OCT.2019 11:54:16

Lowest Channel / 5MHz / 16QAM



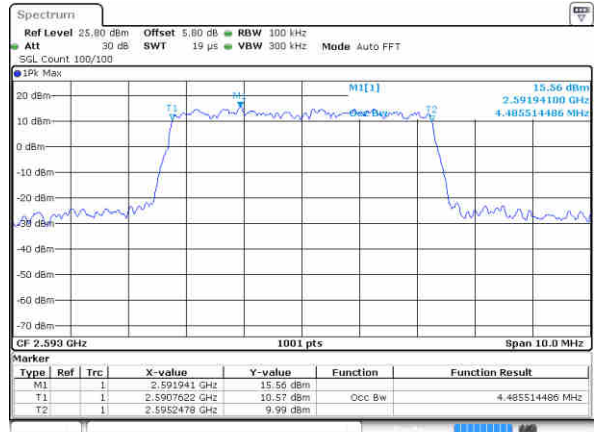
Date: 30.OCT.2019 11:54:26

Middle Channel / 5MHz / QPSK



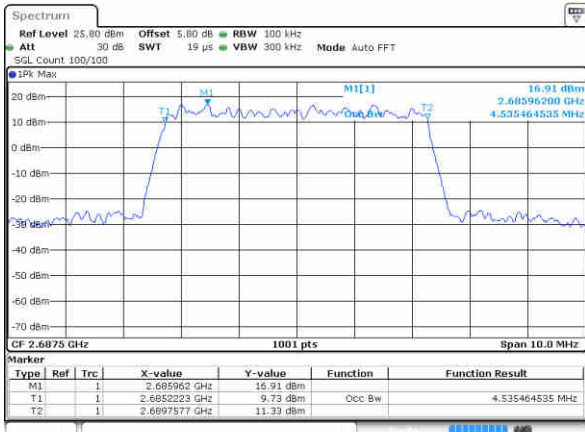
Date: 30.OCT.2019 11:54:56

Middle Channel / 5MHz / 16QAM



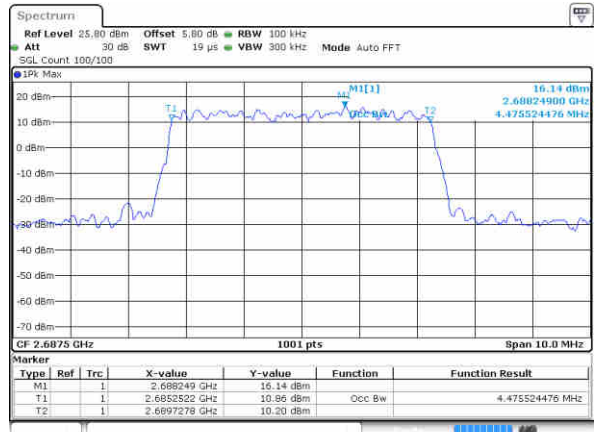
Date: 30.OCT.2019 11:55:06

Highest Channel / 5MHz / QPSK



Date: 30.OCT.2019 11:55:37

Highest Channel / 5MHz / 16QAM

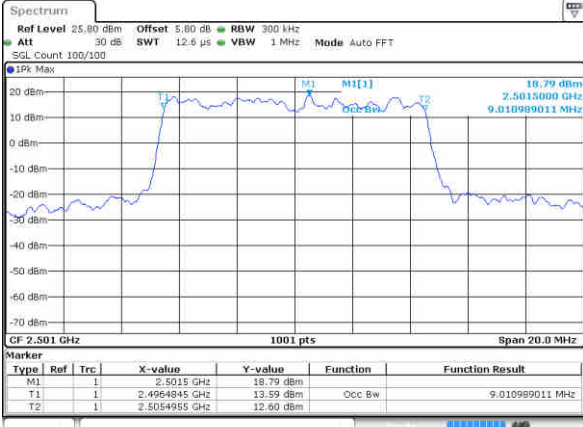


Date: 30.OCT.2019 11:55:47



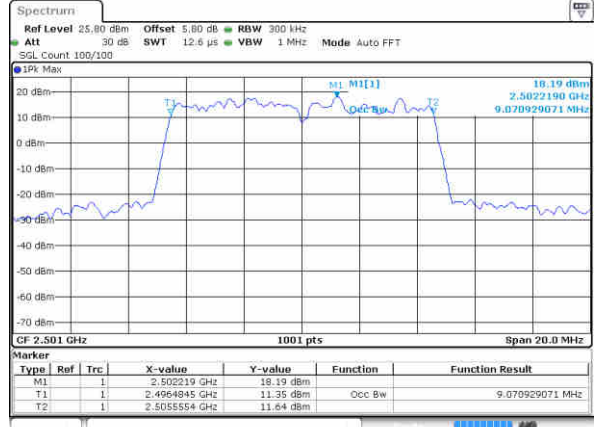
LTE Band 41

Lowest Channel / 10MHz / QPSK



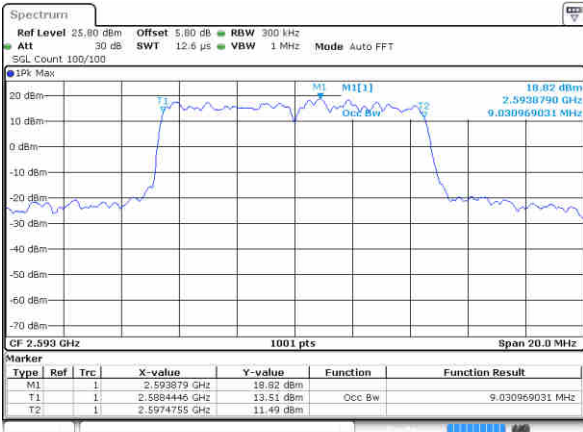
Date: 30.OCT.2019 11:58:17

Lowest Channel / 10MHz / 16QAM



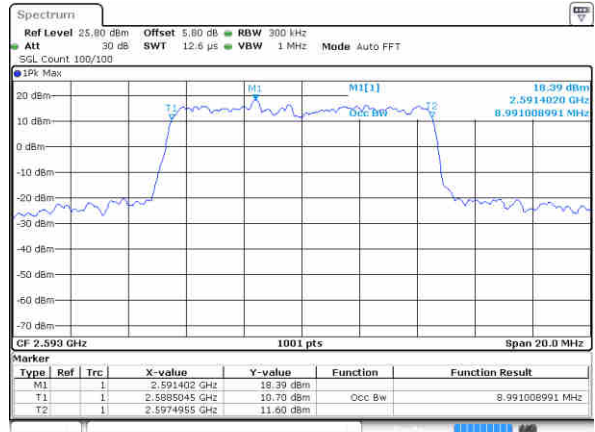
Date: 30.OCT.2019 11:58:27

Middle Channel / 10MHz / QPSK



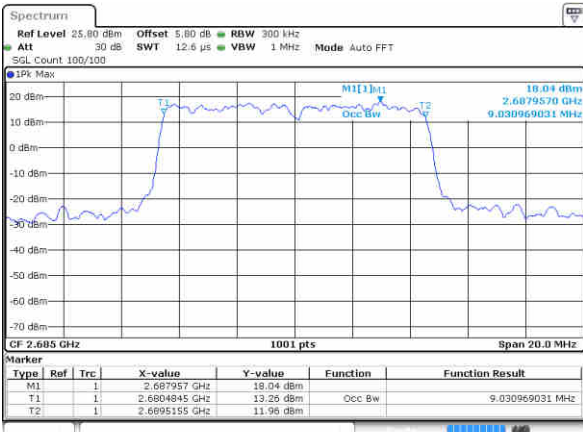
Date: 30.OCT.2019 11:58:57

Middle Channel / 10MHz / 16QAM



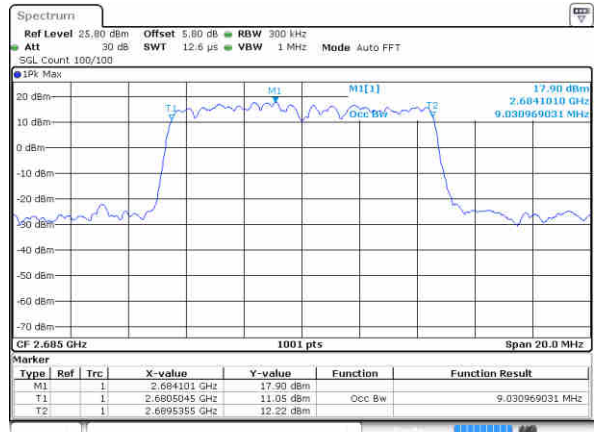
Date: 30.OCT.2019 11:57:08

Highest Channel / 10MHz / QPSK



Date: 30.OCT.2019 11:57:38

Highest Channel / 10MHz / 16QAM

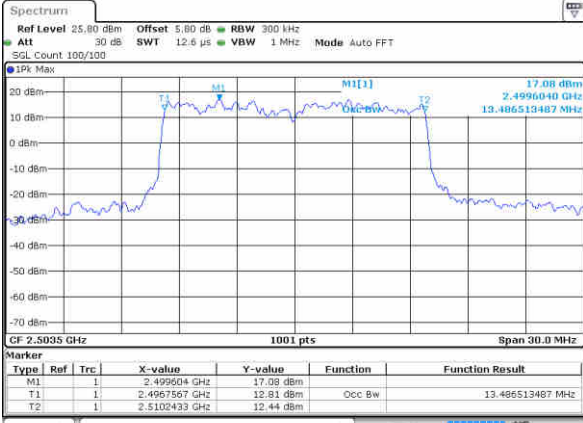


Date: 30.OCT.2019 11:57:48



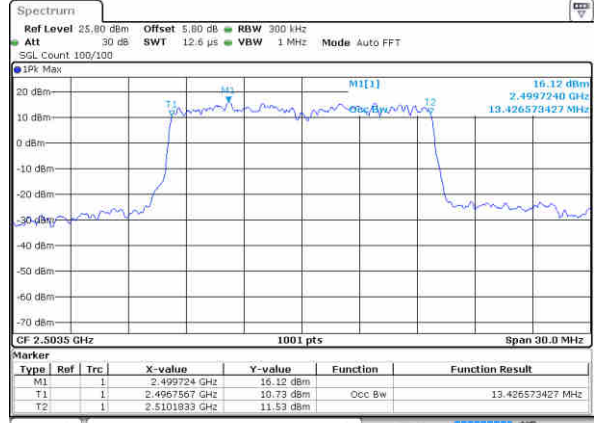
LTE Band 41

Lowest Channel / 15MHz / QPSK



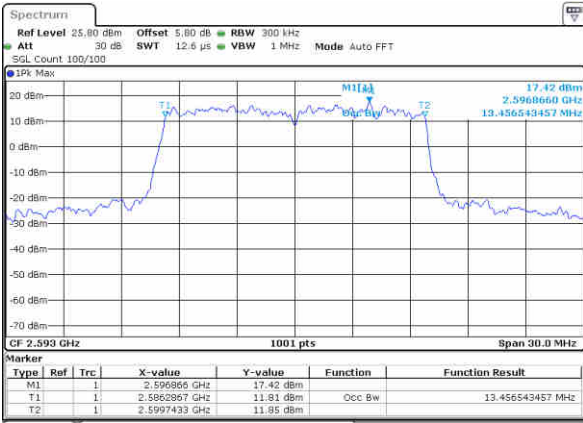
Date: 30.OCT.2019 11:58:18

Lowest Channel / 15MHz / 16QAM



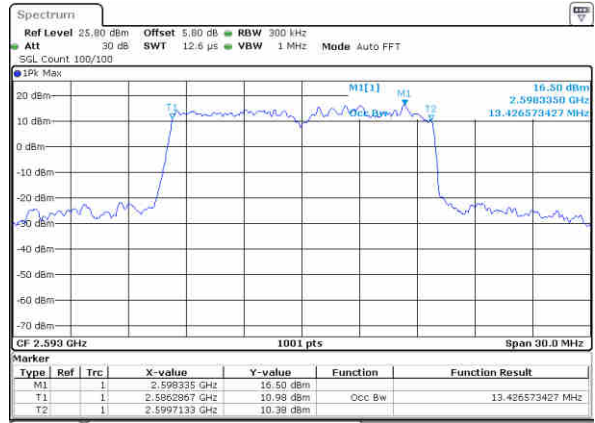
Date: 30.OCT.2019 11:58:28

Middle Channel / 15MHz / QPSK



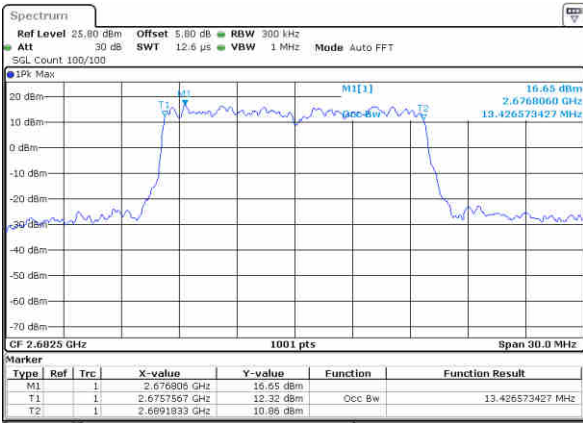
Date: 30.OCT.2019 11:58:58

Middle Channel / 15MHz / 16QAM



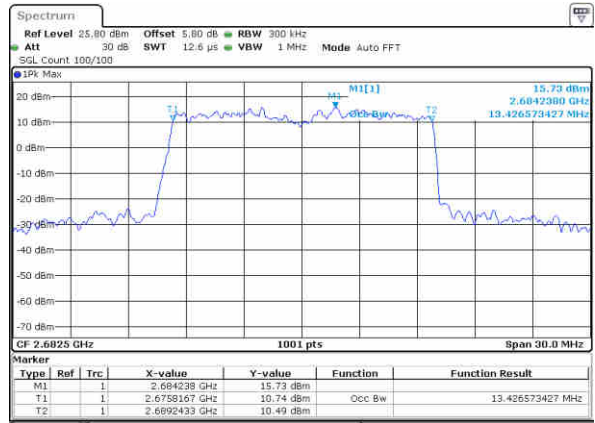
Date: 30.OCT.2019 11:59:08

Highest Channel / 15MHz / QPSK



Date: 30.OCT.2019 11:59:38

Highest Channel / 15MHz / 16QAM

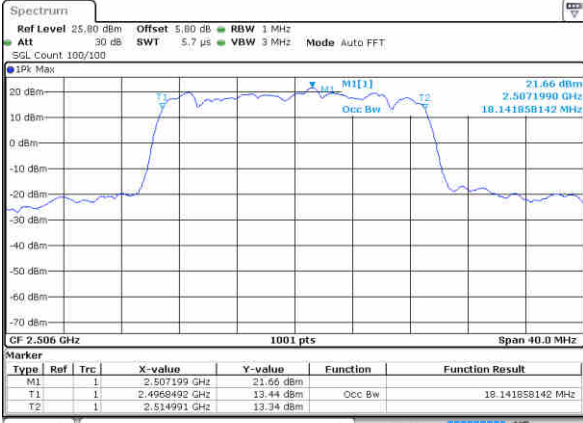


Date: 30.OCT.2019 11:59:48



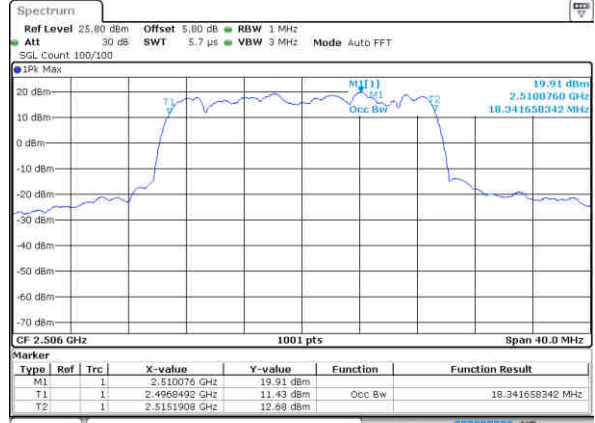
LTE Band 41

Lowest Channel / 20MHz / QPSK



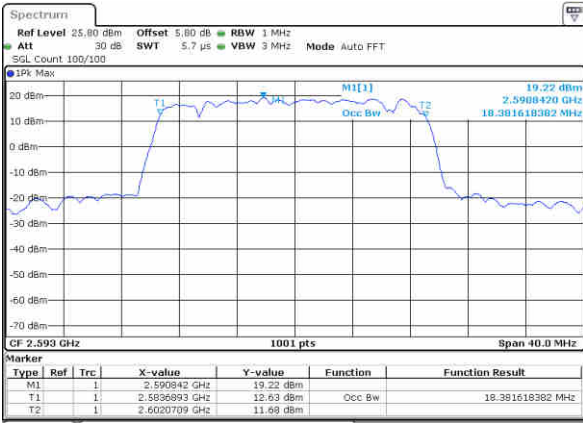
Date: 30.OCT.2019 12:00:19

Lowest Channel / 20MHz / 16QAM



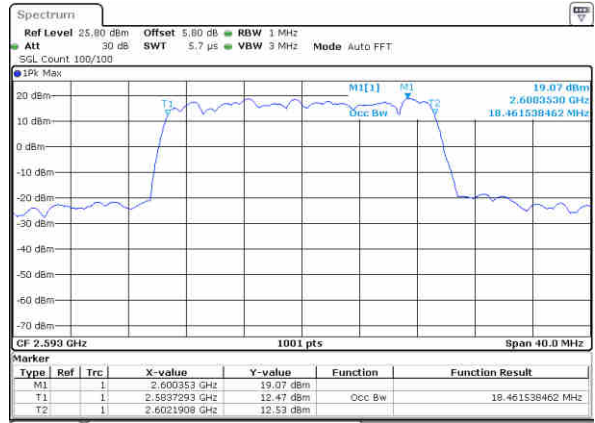
Date: 30.OCT.2019 12:00:29

Middle Channel / 20MHz / QPSK



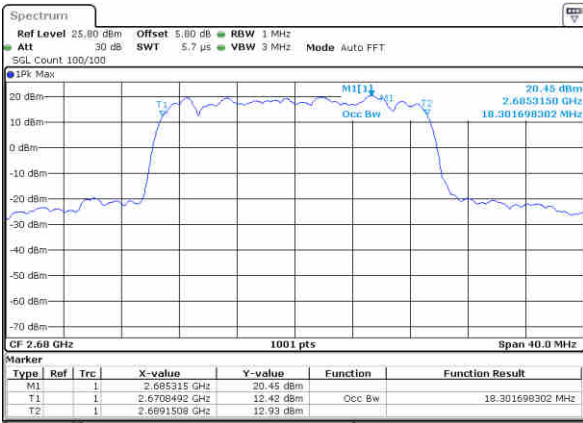
Date: 30.OCT.2019 12:00:58

Middle Channel / 20MHz / 16QAM



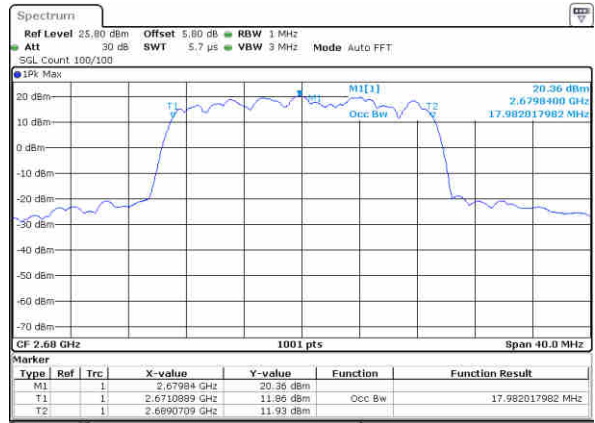
Date: 30.OCT.2019 12:01:09

Highest Channel / 20MHz / QPSK



Date: 30.OCT.2019 12:01:38

Highest Channel / 20MHz / 16QAM



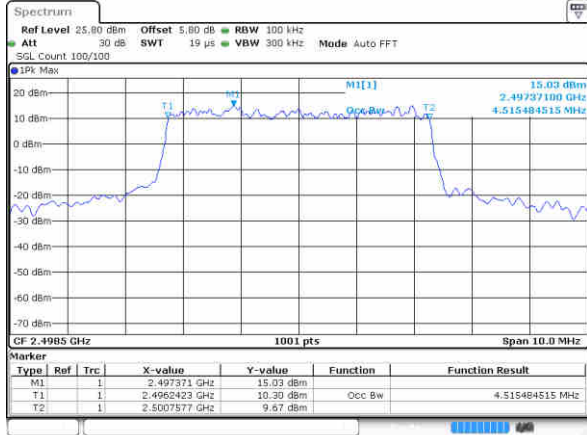
Date: 30.OCT.2019 12:01:48





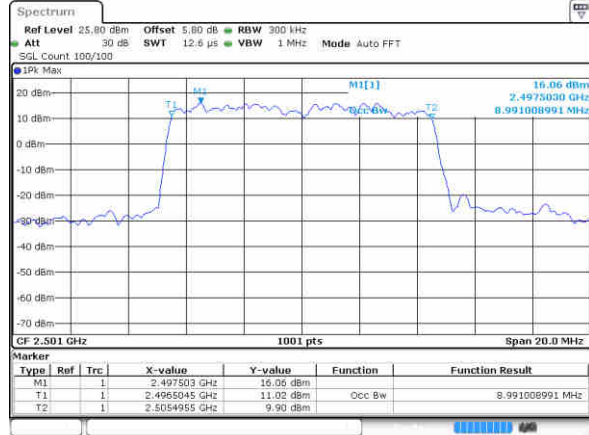
LTE Band 41

Lowest Channel / 5MHz / 64QAM



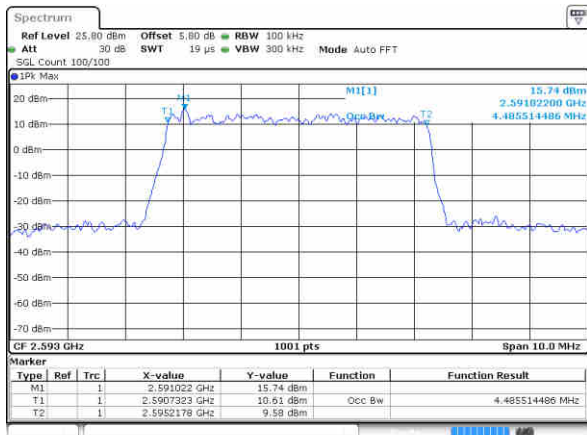
Date: 30.OCT.2019 12:02:18

Lowest Channel / 10MHz / 64QAM



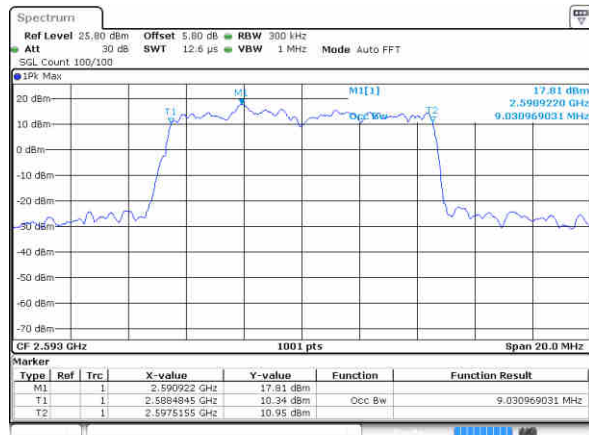
Date: 30.OCT.2019 12:03:19

Middle Channel / 5MHz / 64QAM



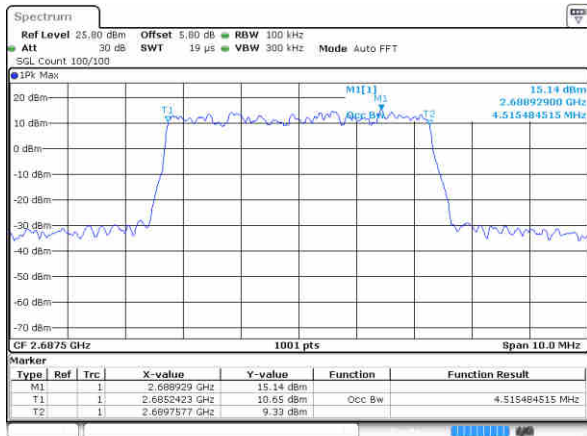
Date: 30.OCT.2019 12:02:38

Middle Channel / 10MHz / 64QAM



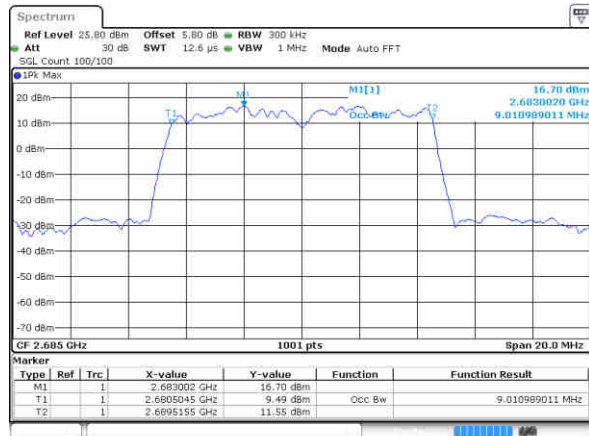
Date: 30.OCT.2019 12:03:39

Highest Channel / 5MHz / 64QAM



Date: 30.OCT.2019 12:02:58

Highest Channel / 10MHz / 64QAM

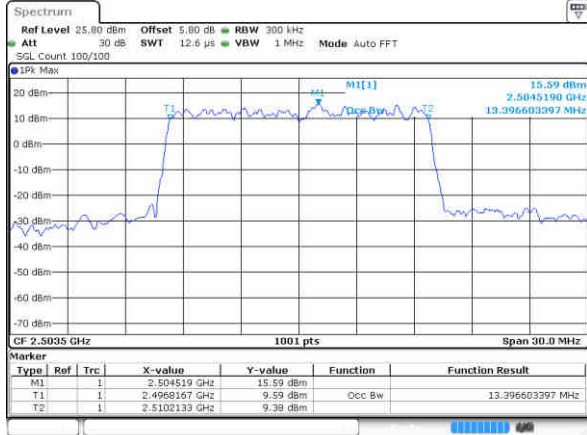


Date: 30.OCT.2019 12:03:59



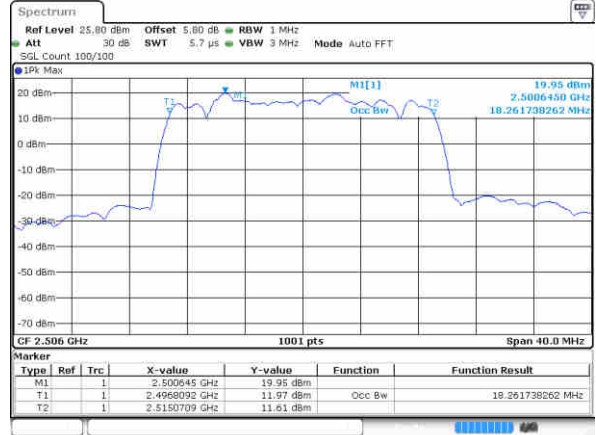
LTE Band 41

Lowest Channel / 15MHz / 64QAM



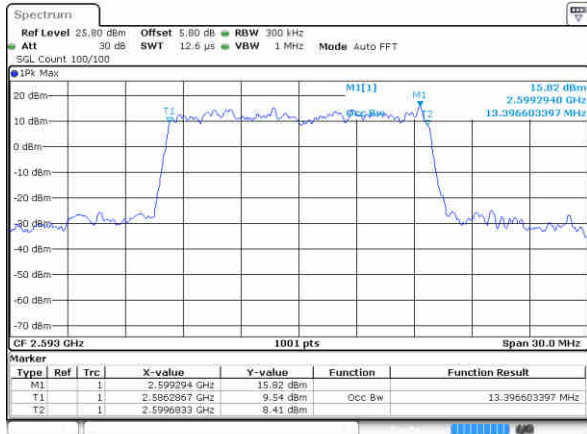
Date: 30.OCT.2019 12:04:19

Lowest Channel / 20MHz / 64QAM



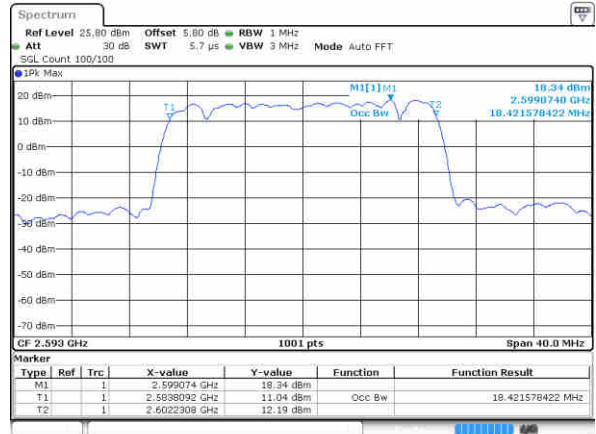
Date: 30.OCT.2019 12:05:19

Middle Channel / 15MHz / 64QAM



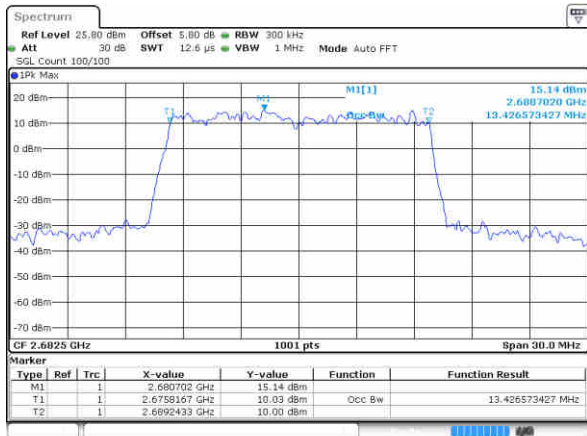
Date: 30.OCT.2019 12:04:39

Middle Channel / 20MHz / 64QAM



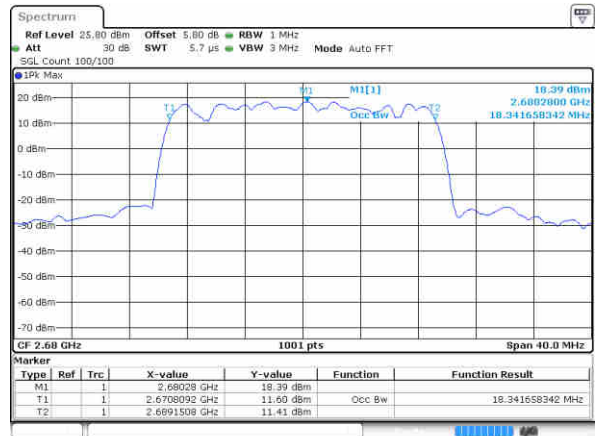
Date: 30.OCT.2019 12:05:40

Highest Channel / 15MHz / 64QAM



Date: 30.OCT.2019 12:04:59

Highest Channel / 20MHz / 64QAM



Date: 30.OCT.2019 12:06:00