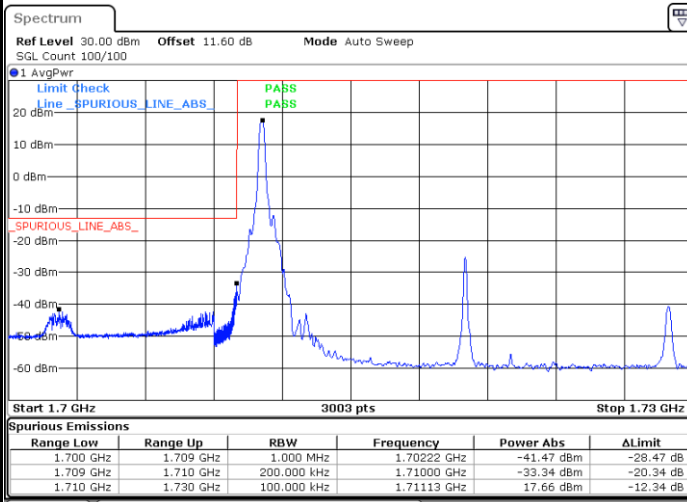




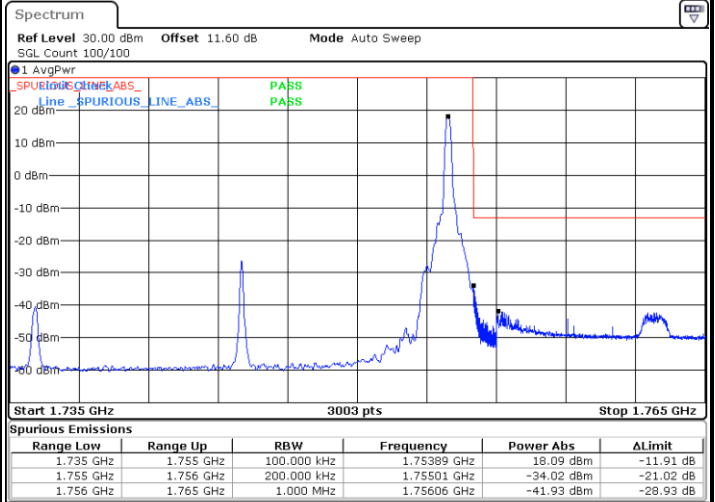
LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



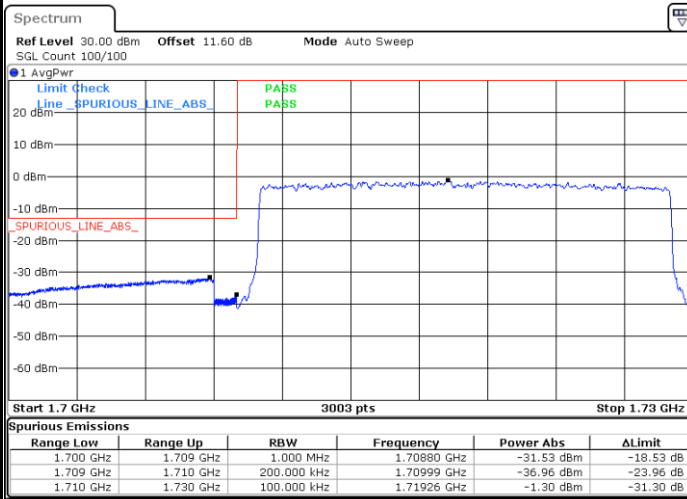
Date: 28.MAR.2020 19:09:02

Highest Band Edge / 1 RB



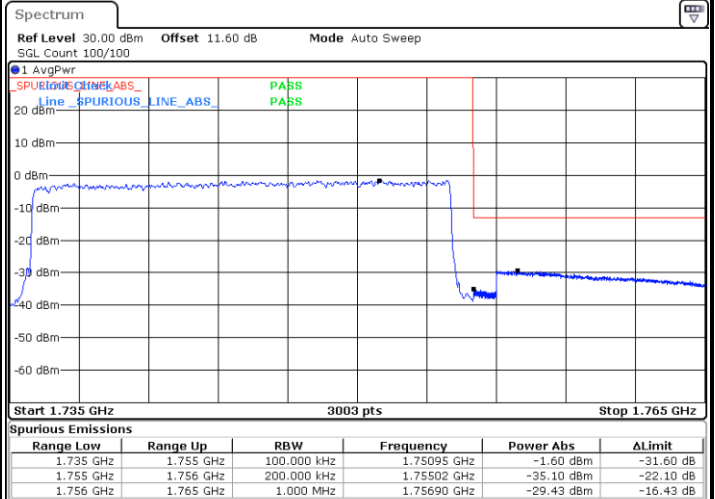
Date: 28.MAR.2020 19:13:28

Lowest Band Edge / Full RB



Date: 28.MAR.2020 19:10:02

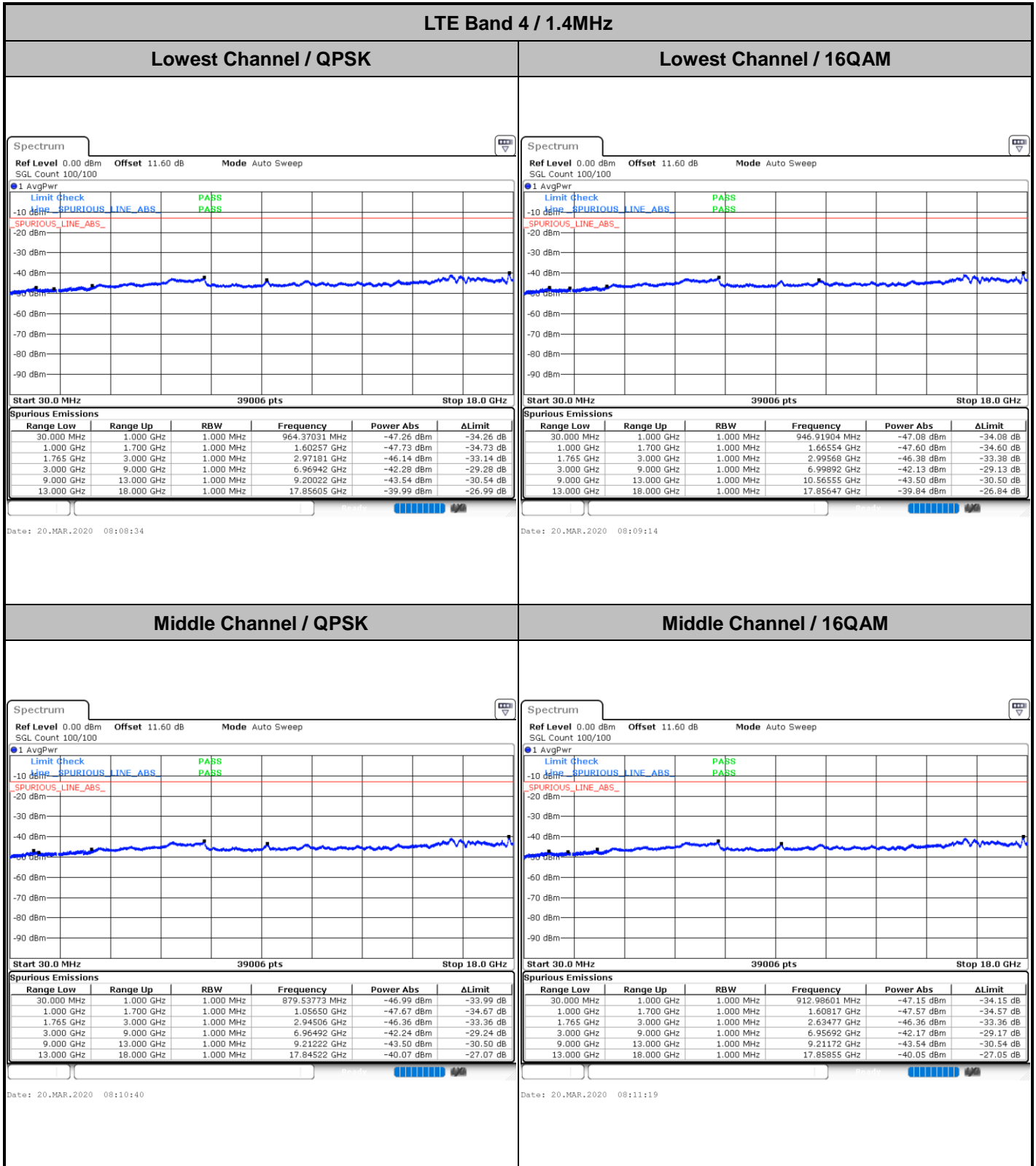
Highest Band Edge / Full RB



Date: 28.MAR.2020 19:14:28



# Conducted Spurious Emission

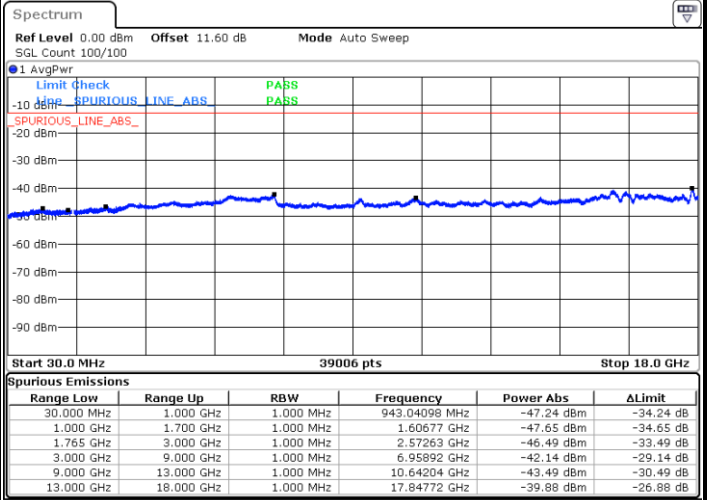
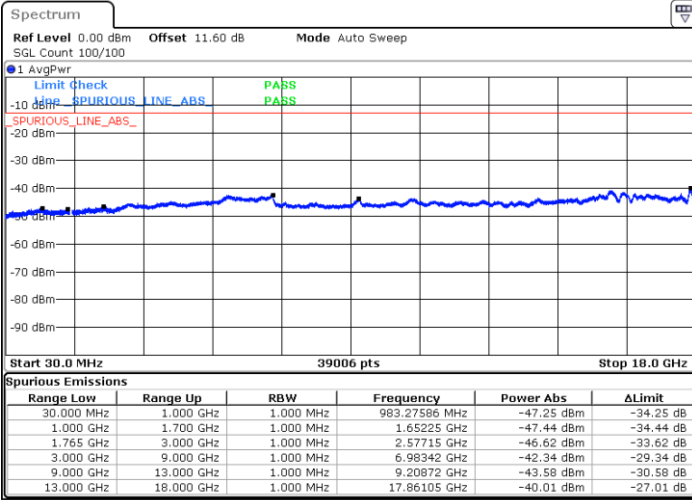




LTE Band 4 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



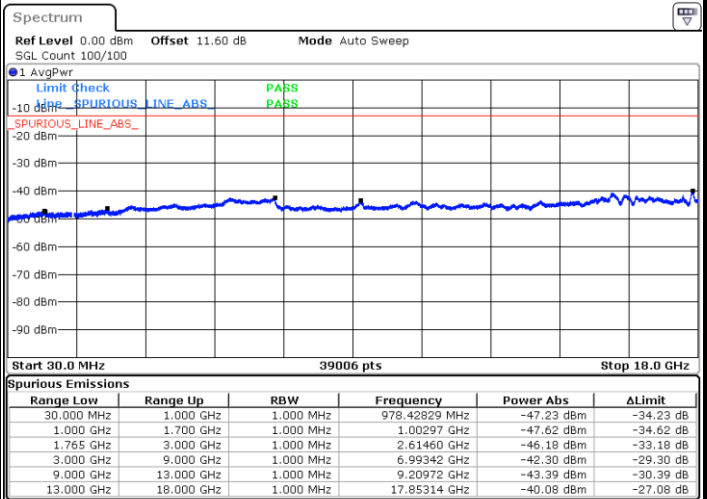
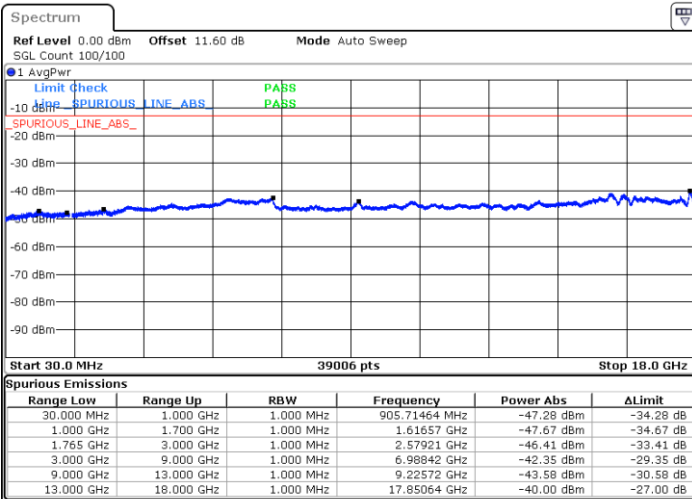
Date: 20.MAR.2020 08:16:59

Date: 20.MAR.2020 08:17:39

LTE Band 4 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 20.MAR.2020 07:54:01

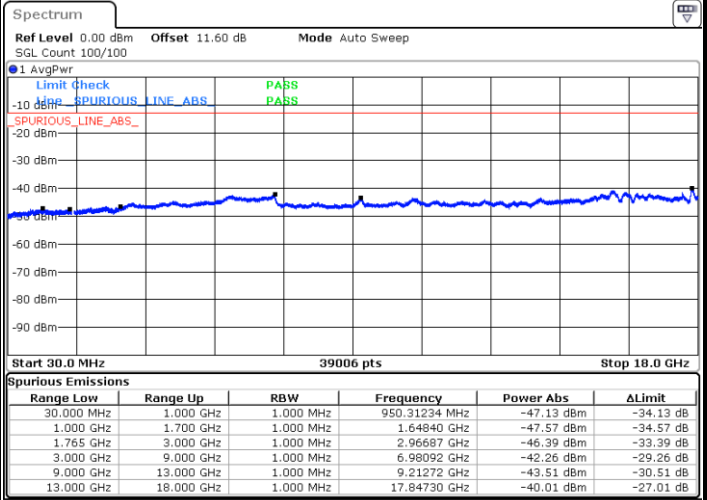
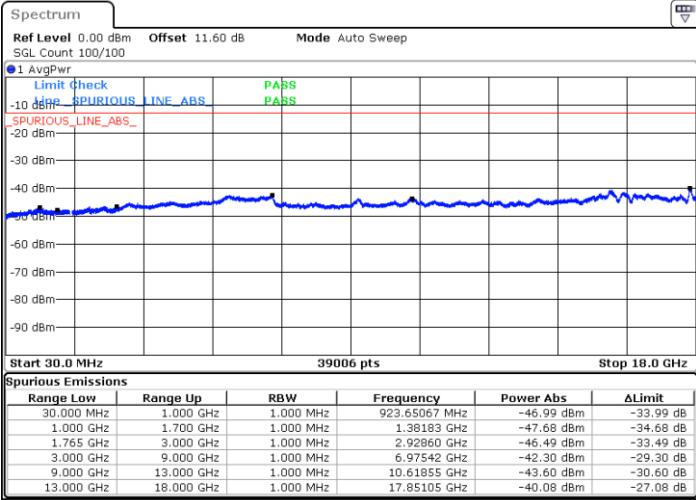
Date: 20.MAR.2020 07:54:41



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

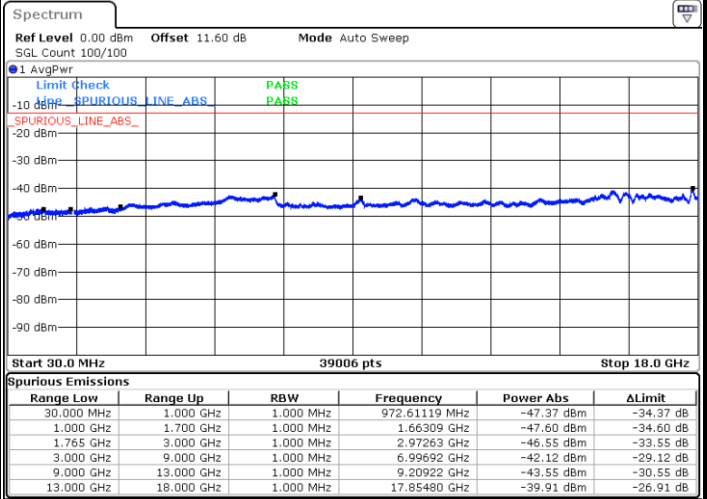
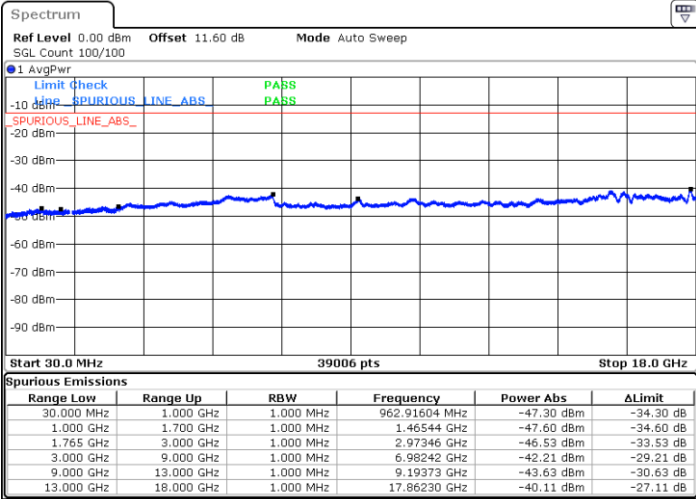


Date: 20.MAR.2020 07:56:07

Date: 20.MAR.2020 07:56:46

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20.MAR.2020 08:02:13

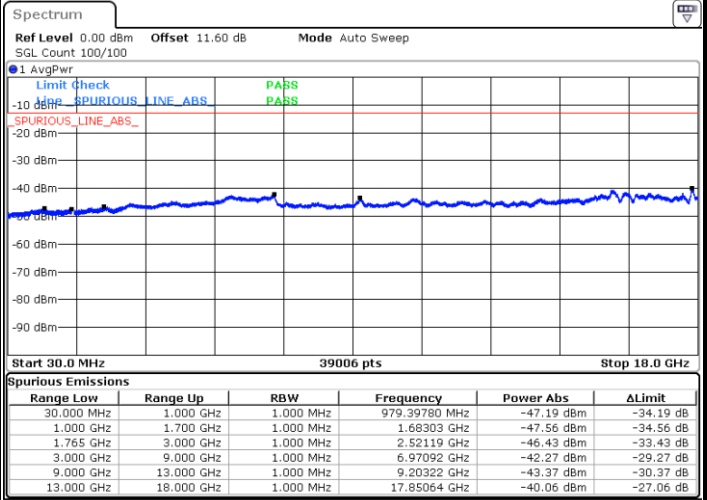
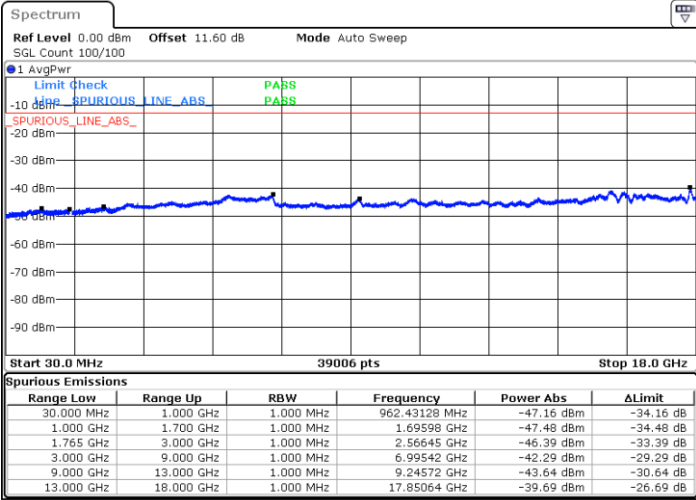
Date: 20.MAR.2020 08:02:53



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

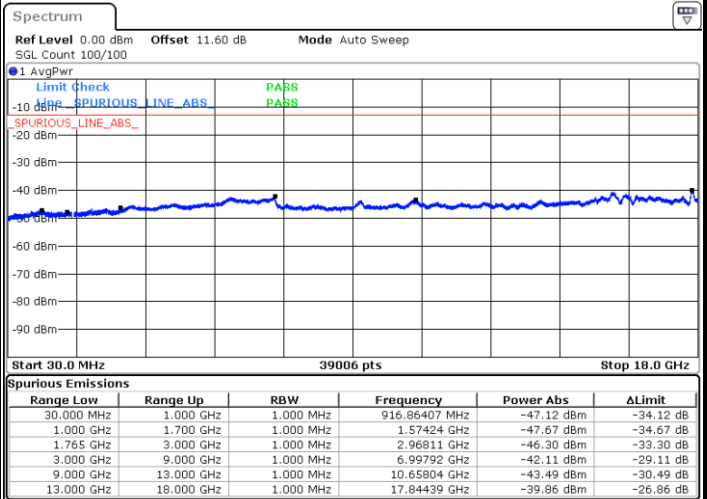
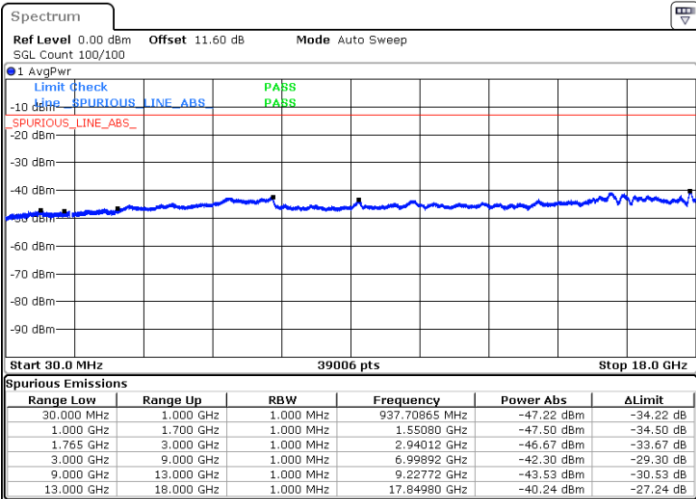


Date: 20.MAR.2020 07:03:34

Date: 20.MAR.2020 07:04:14

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 20.MAR.2020 07:05:40

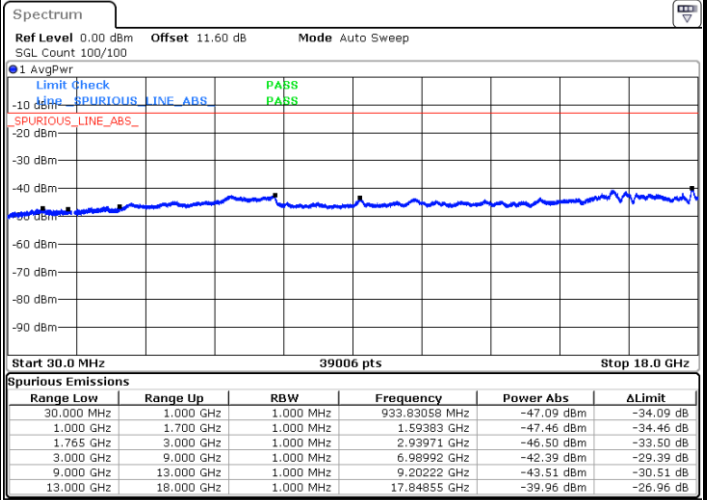
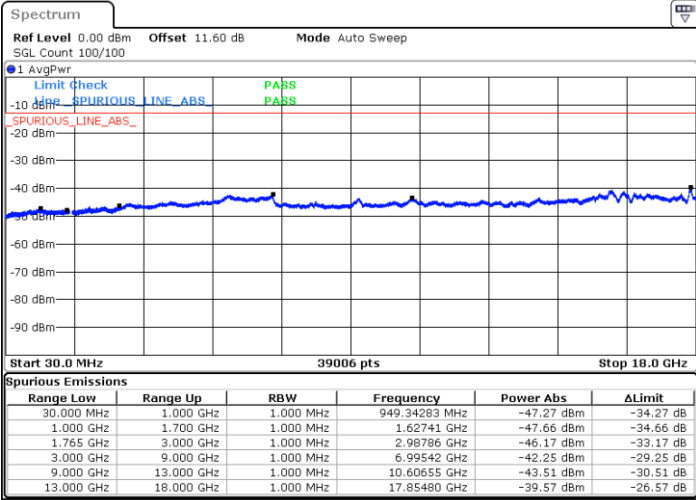
Date: 20.MAR.2020 07:06:19



LTE Band 4 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



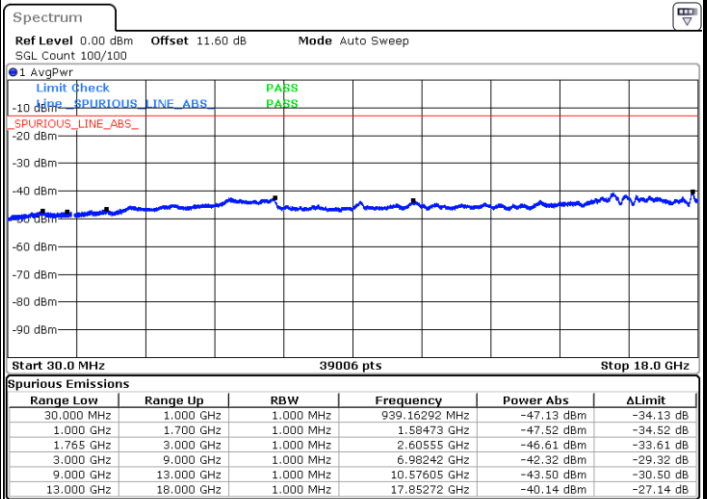
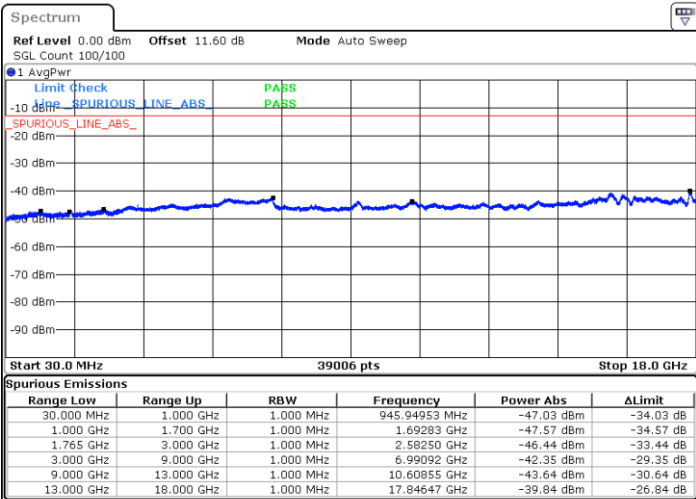
Date: 20.MAR.2020 07:10:27

Date: 20.MAR.2020 07:11:07

LTE Band 4 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 20.MAR.2020 07:15:15

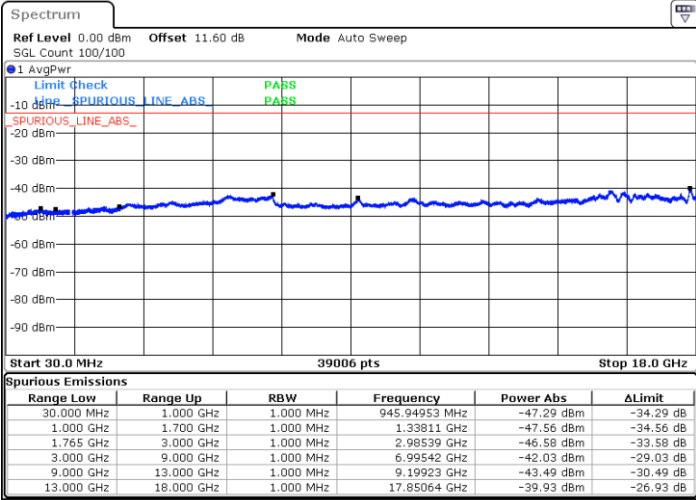
Date: 20.MAR.2020 07:15:55



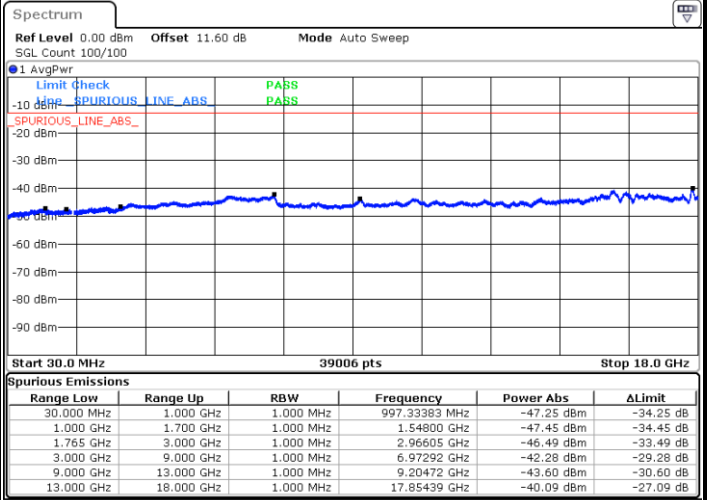
LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



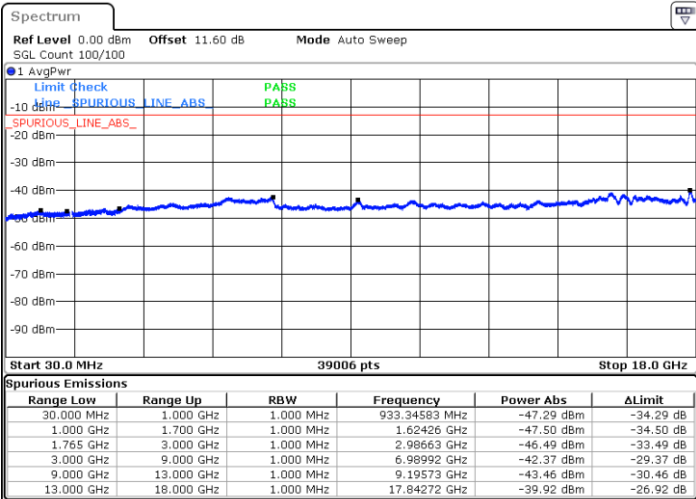
Date: 20.MAR.2020 07:17:20



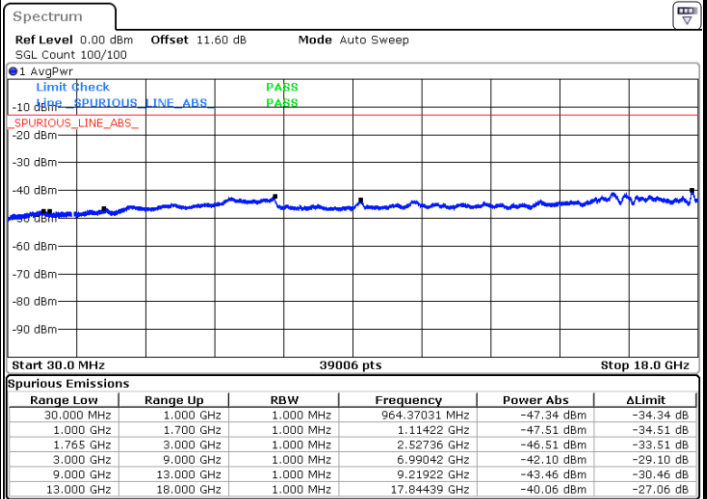
Date: 20.MAR.2020 07:18:00

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20.MAR.2020 07:22:07



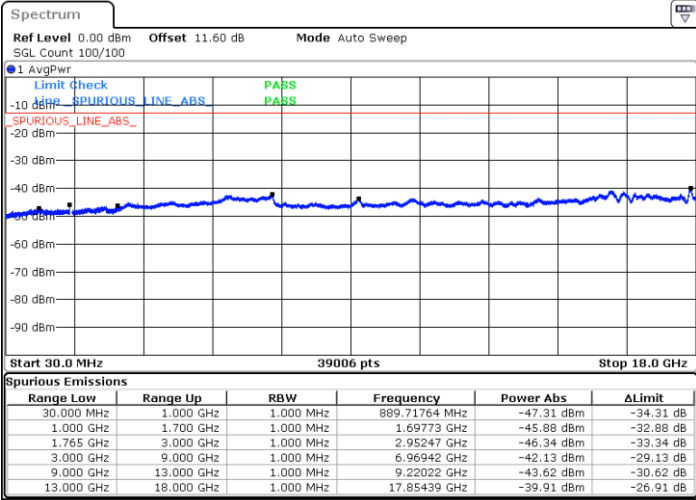
Date: 20.MAR.2020 07:22:48



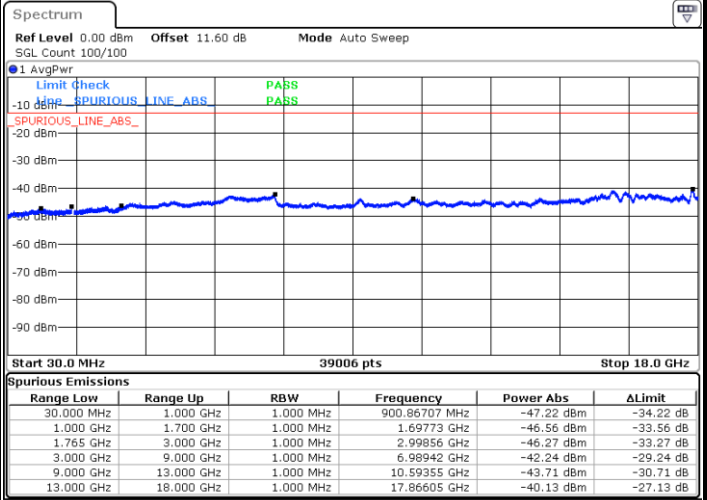
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



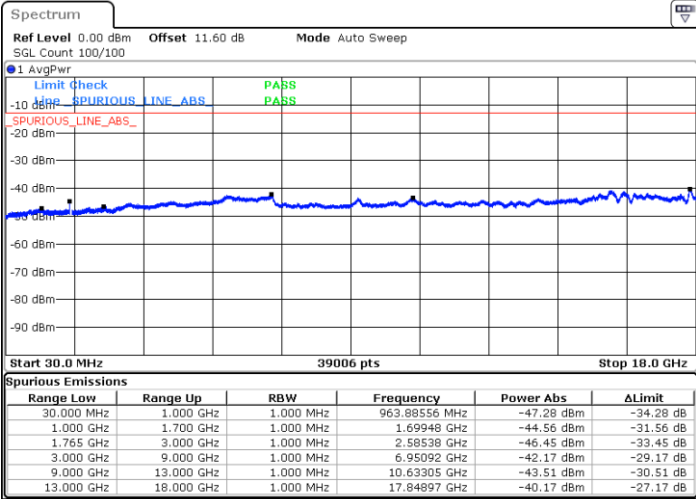
Date: 20.MAR.2020 07:26:56



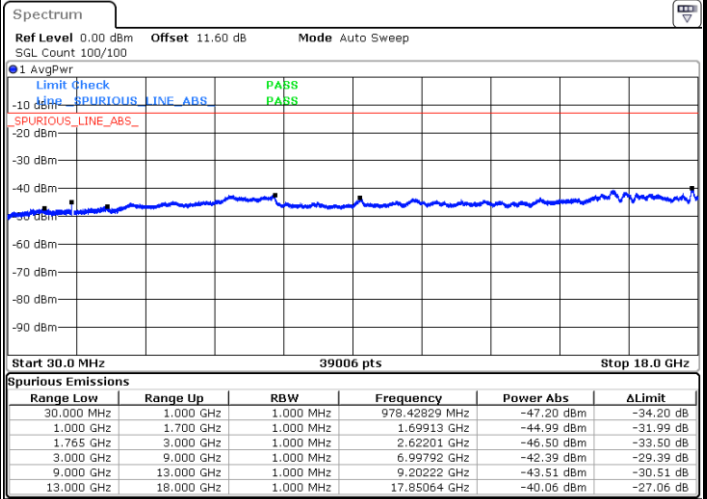
Date: 20.MAR.2020 07:27:36

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 20.MAR.2020 07:29:01



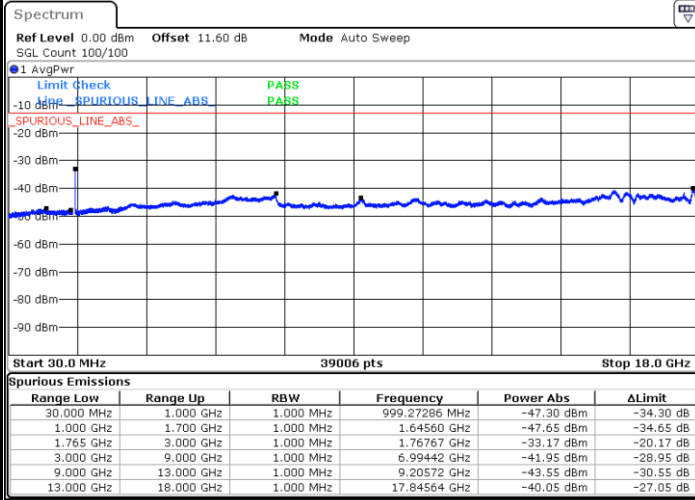
Date: 20.MAR.2020 07:29:41





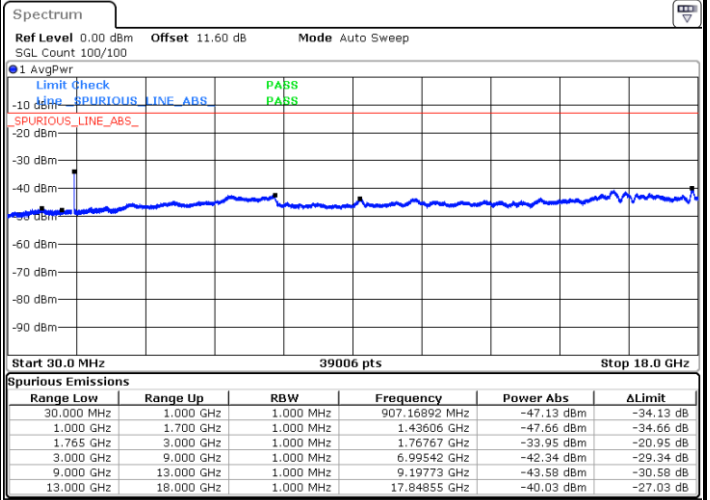
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 20.MAR.2020 07:33:48

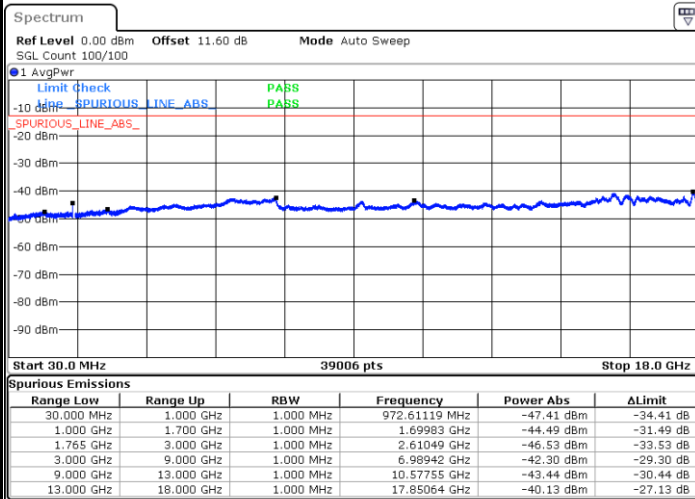
Highest Channel / 16QAM



Date: 20.MAR.2020 07:34:29

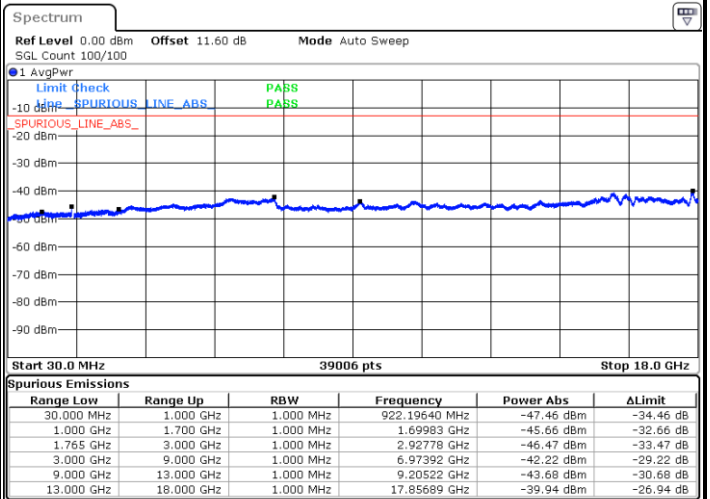
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 20.MAR.2020 07:38:37

Lowest Channel / 16QAM



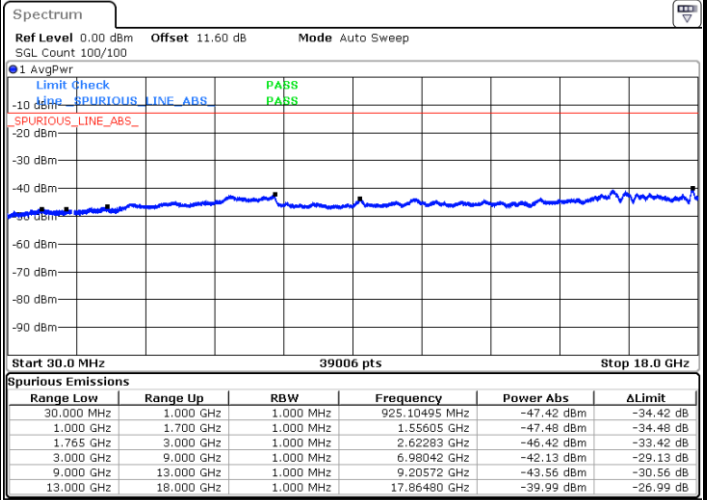
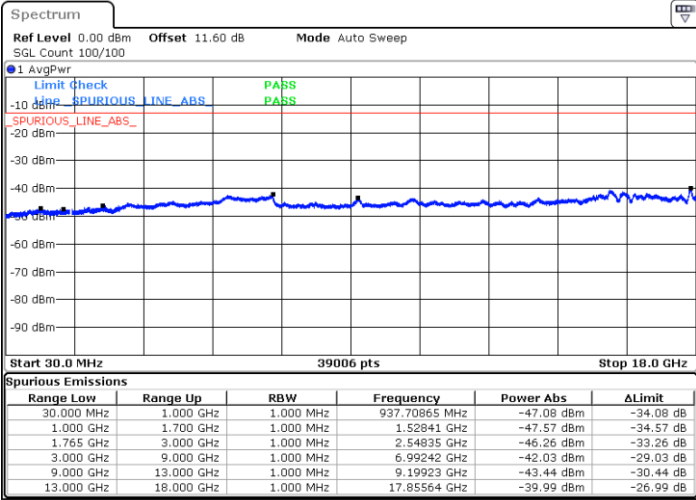
Date: 20.MAR.2020 07:39:17



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

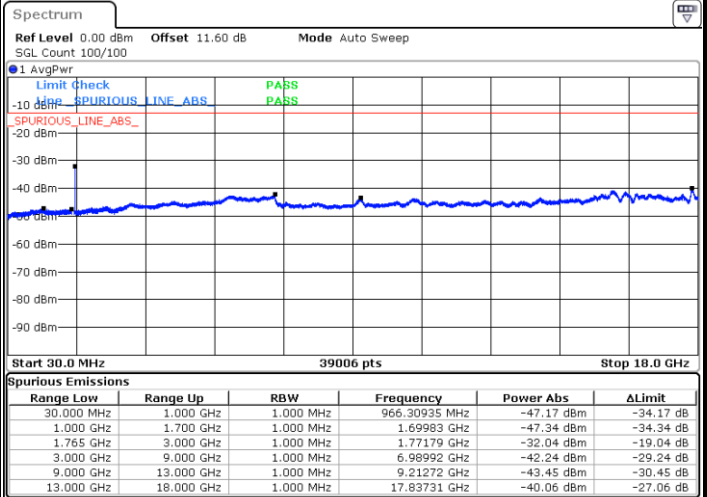
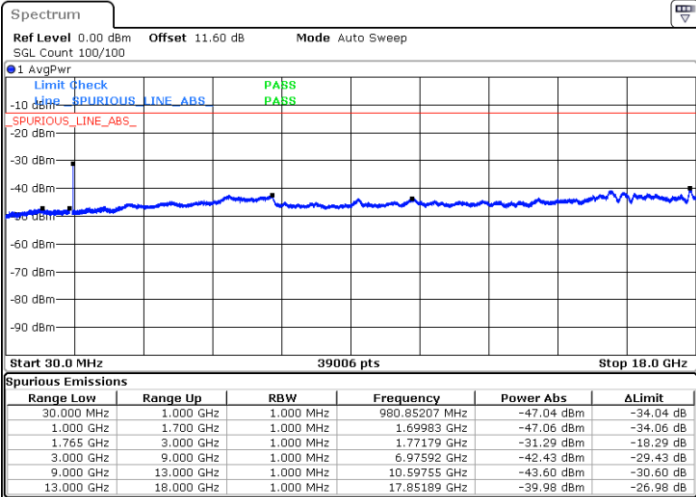


Date: 20.MAR.2020 07:40:43

Date: 20.MAR.2020 07:41:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20.MAR.2020 07:45:30

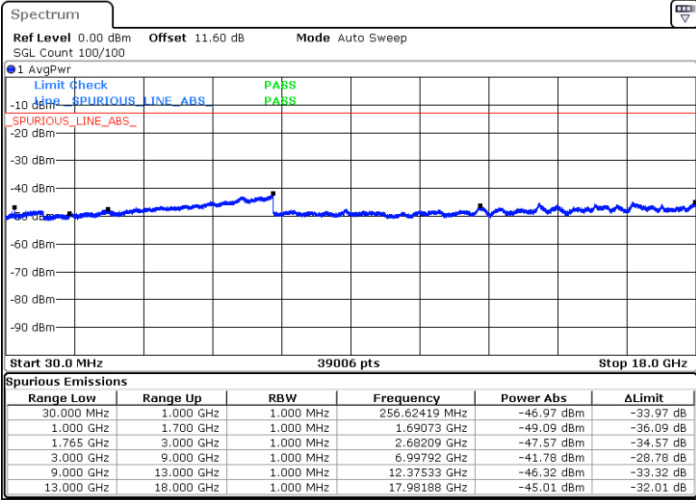
Date: 20.MAR.2020 07:46:10



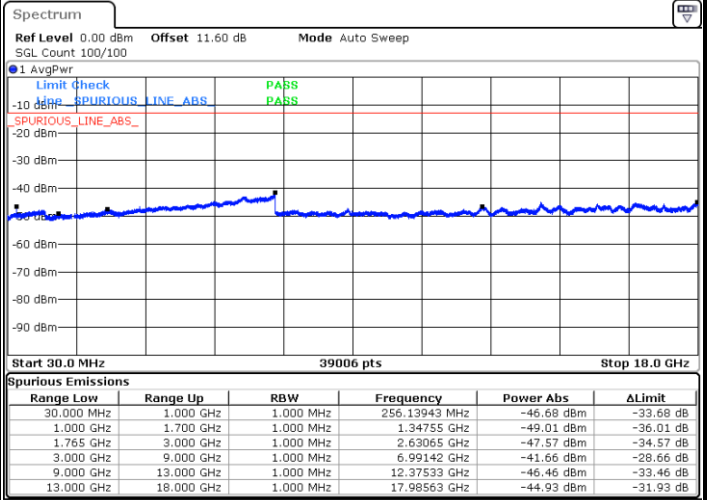
LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

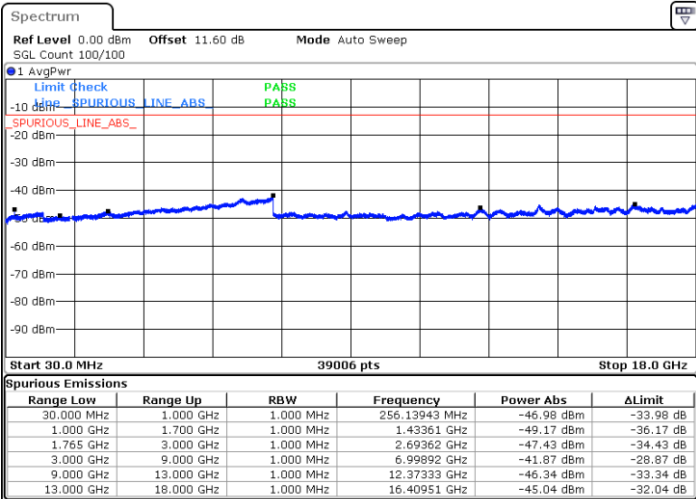


Date: 28.MAR.2020 19:18:39



Date: 28.MAR.2020 19:19:52

Highest Channel / 64QAM



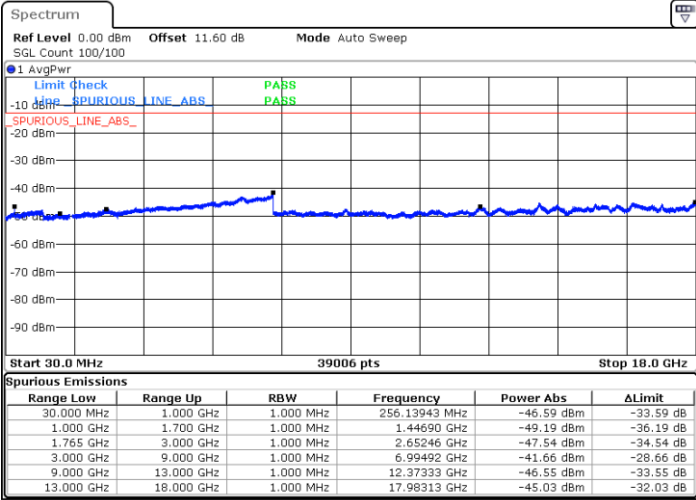
Date: 28.MAR.2020 19:23:12



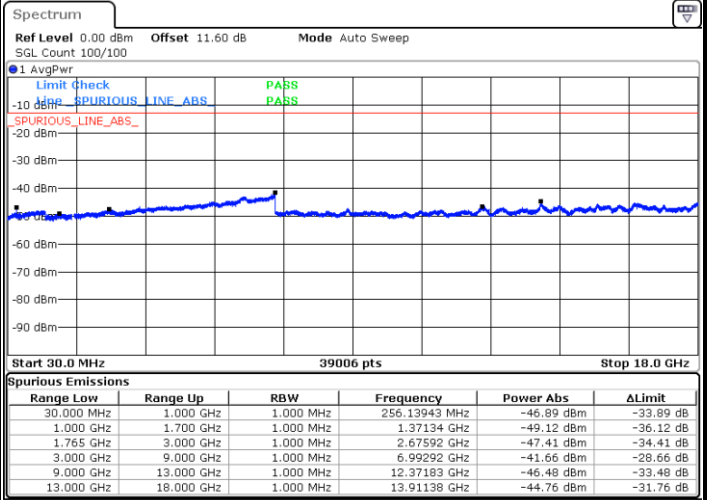
LTE Band 4 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

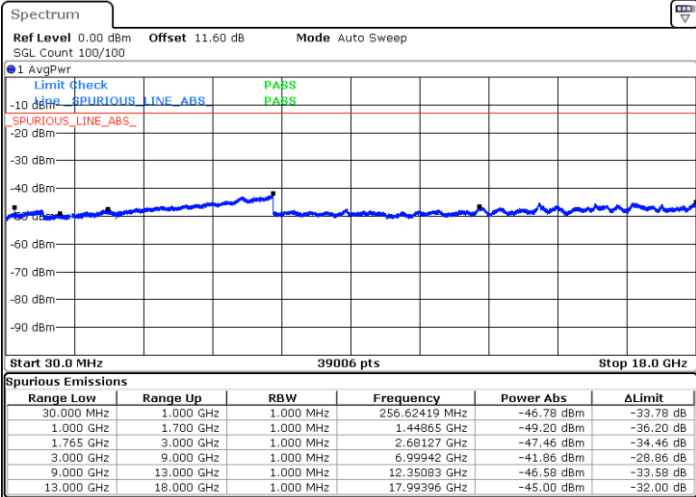


Date: 28.MAR.2020 18:31:40



Date: 28.MAR.2020 18:32:52

Highest Channel / 64QAM



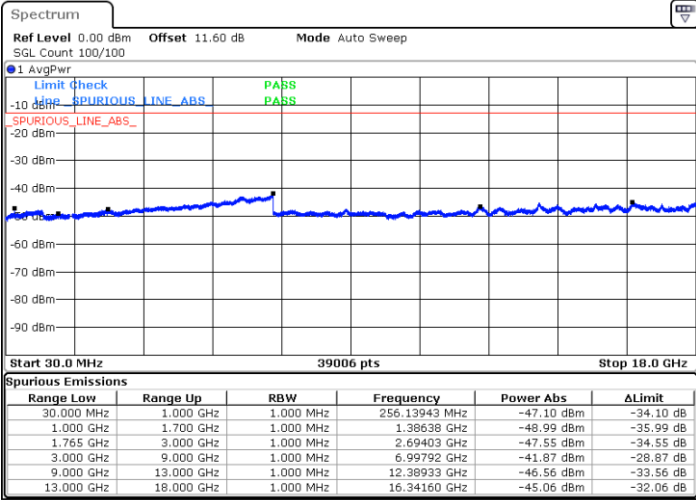
Date: 28.MAR.2020 18:36:06



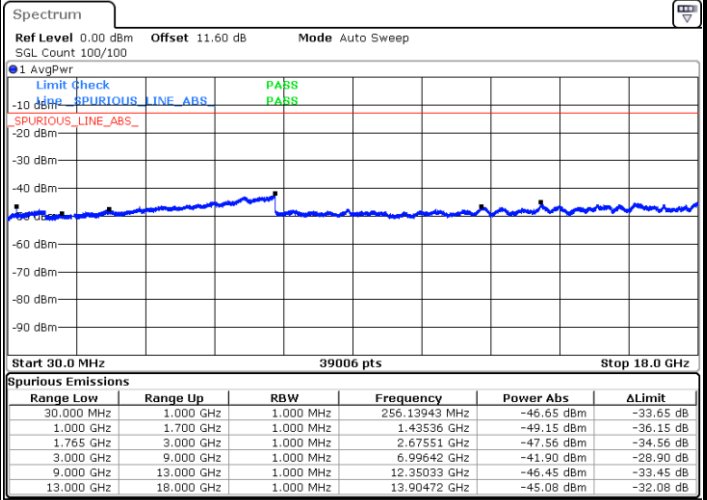
LTE Band 4 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

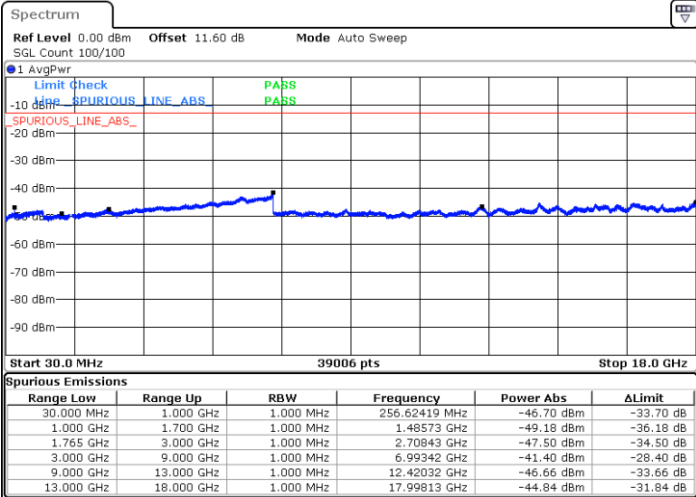


Date: 28.MAR.2020 18:47:48



Date: 28.MAR.2020 18:49:01

Highest Channel / 64QAM



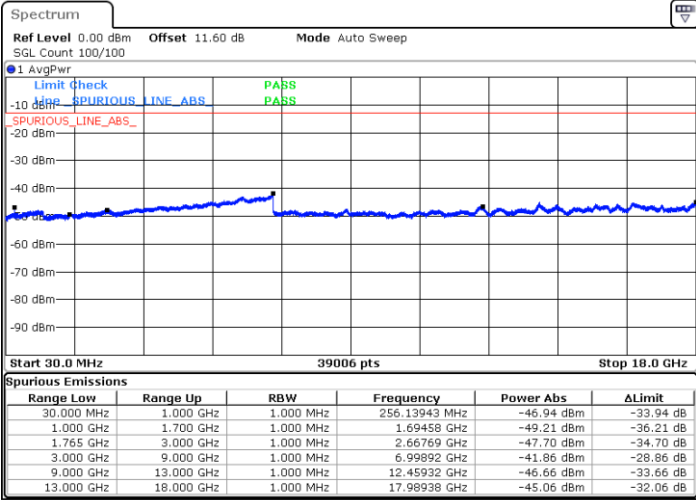
Date: 28.MAR.2020 18:52:14



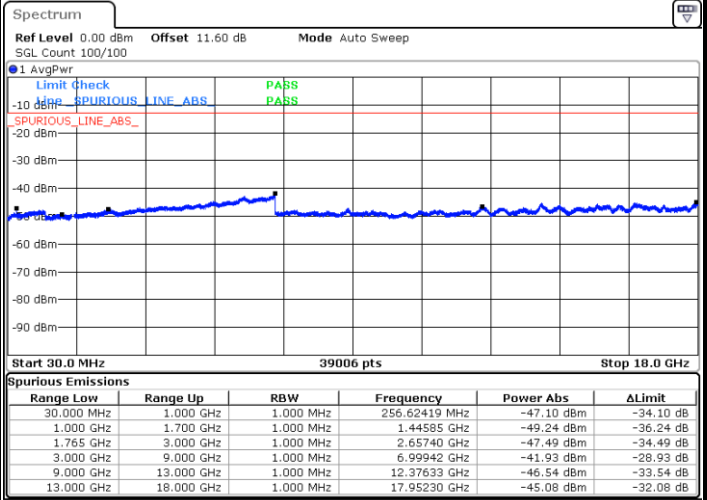
LTE Band 4 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

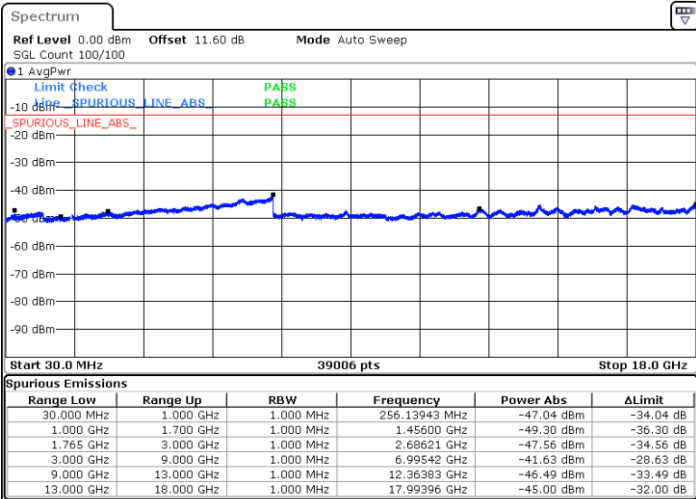


Date: 28.MAR.2020 18:55:29



Date: 28.MAR.2020 18:56:42

Highest Channel / 64QAM



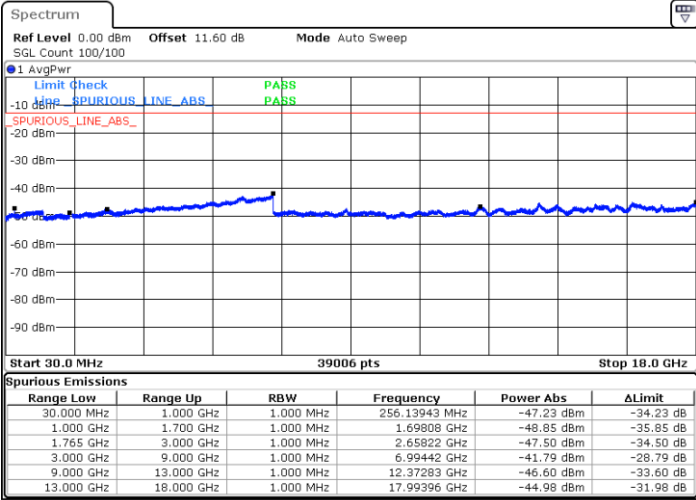
Date: 28.MAR.2020 18:59:55



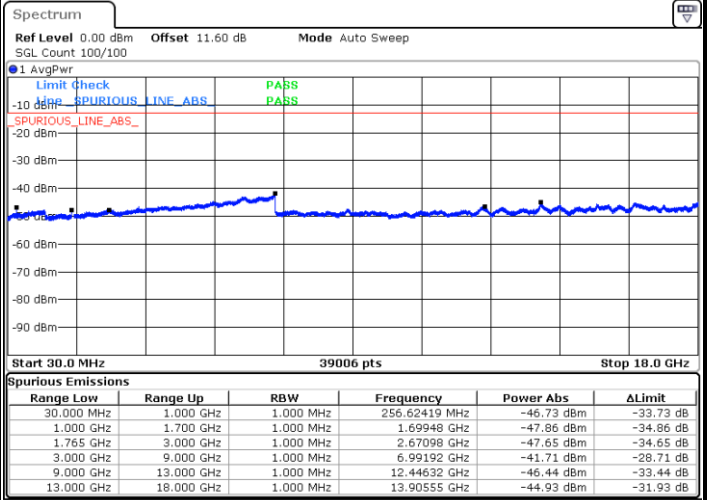
LTE Band 4 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

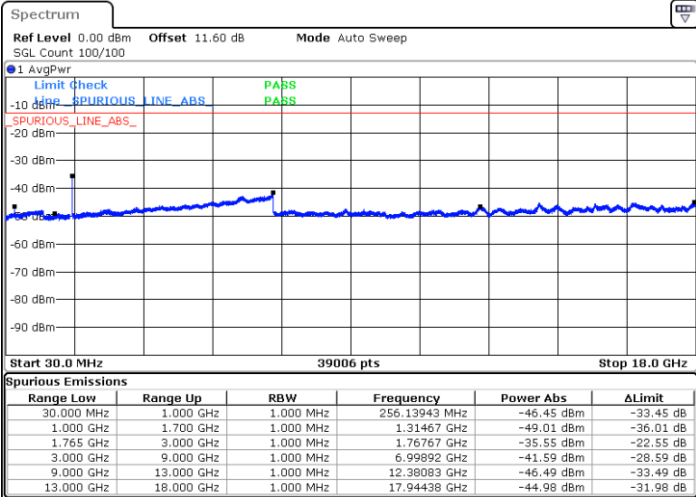


Date: 28.MAR.2020 19:03:10



Date: 28.MAR.2020 19:04:23

Highest Channel / 64QAM



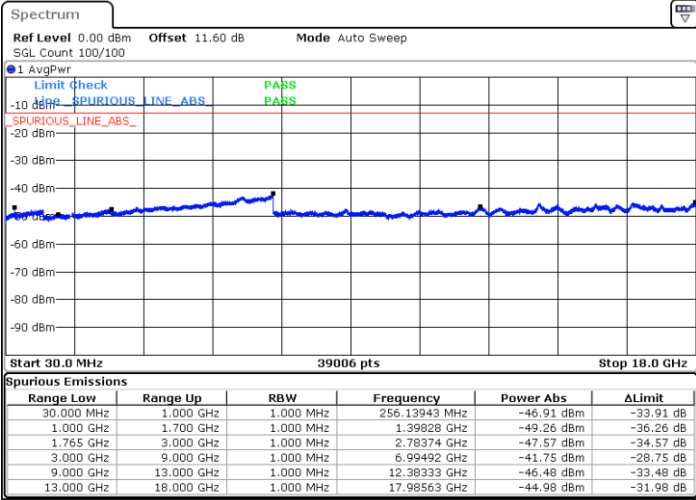
Date: 28.MAR.2020 19:07:36



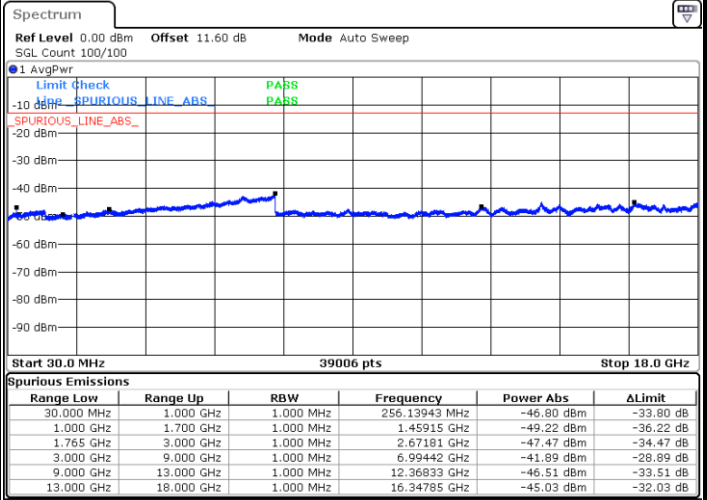
LTE Band 4 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

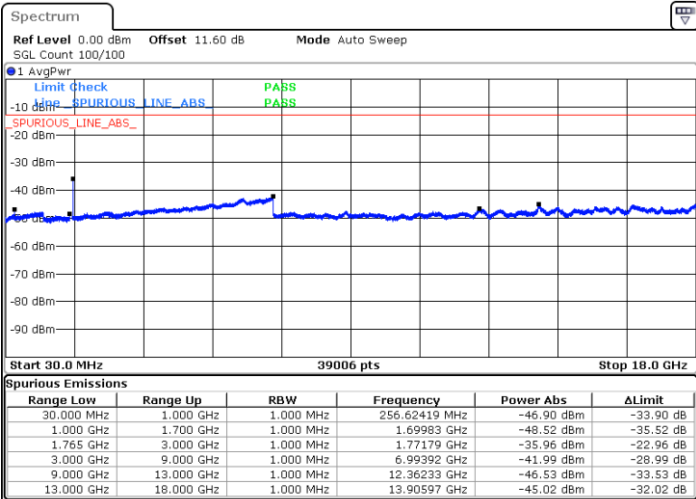


Date: 28.MAR.2020 19:10:51



Date: 28.MAR.2020 19:12:04

Highest Channel / 64QAM



Date: 28.MAR.2020 19:15:18





Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 5

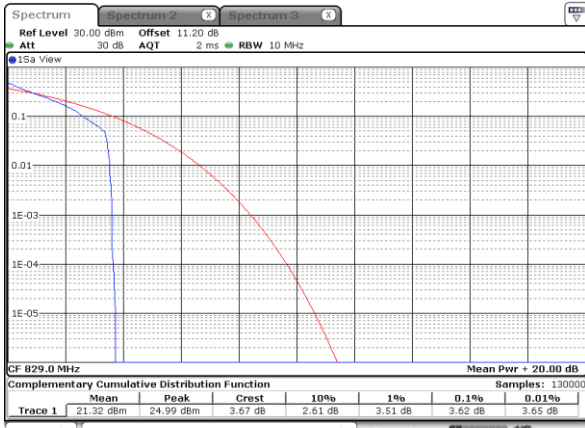
## Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.72	5.25	6.03	PASS
Middle CH	3.74	4.75	5.25	6.09	
Highest CH	3.71	4.81	5.57	6.09	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.49	6.55	-	-	PASS
Middle CH	6.96	6.61	-	-	
Highest CH	7.07	6.58	-	-	



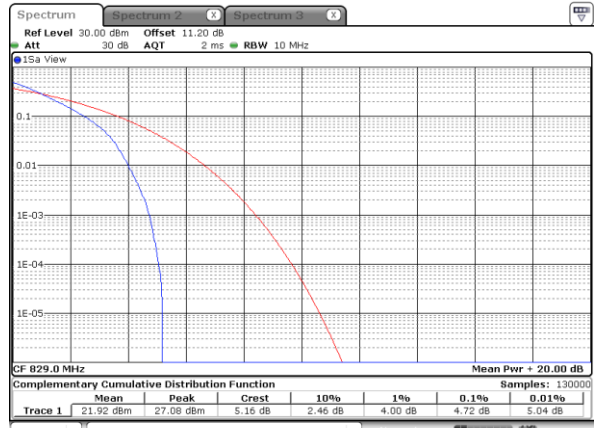
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



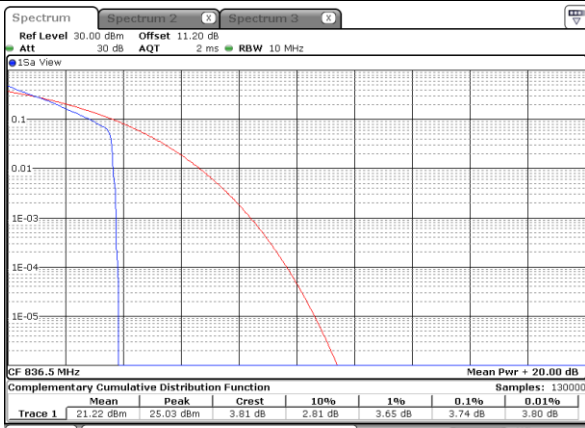
Date: 18.MAR.2020 23:58:02

Lowest Channel / Full RB



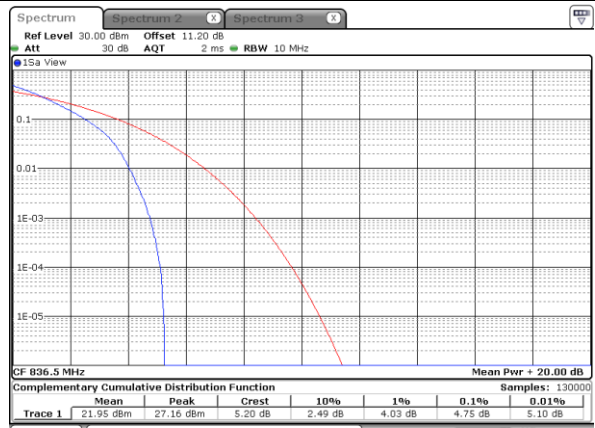
Date: 18.MAR.2020 23:58:16

Middle Channel / 1RB



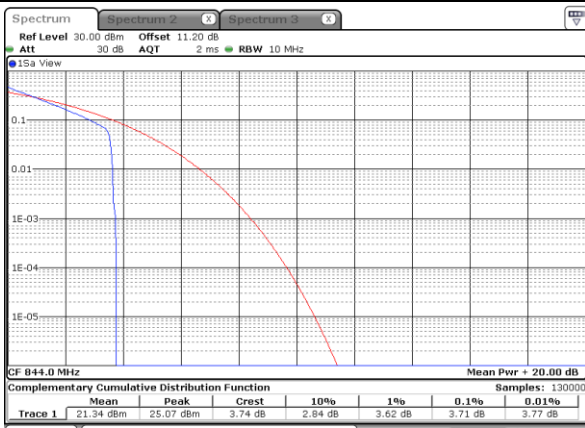
Date: 18.MAR.2020 23:58:31

Middle Channel / Full RB



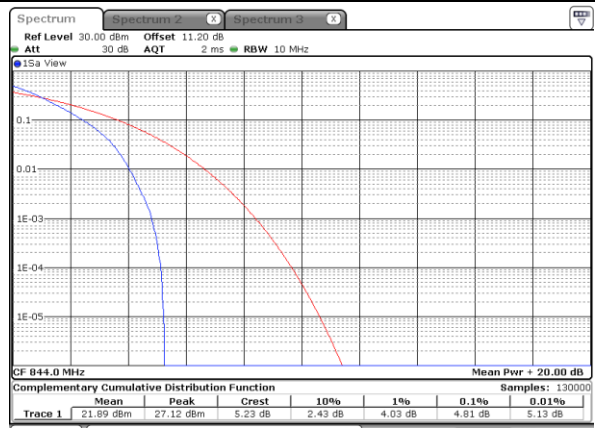
Date: 18.MAR.2020 23:58:43

Highest Channel / 1RB



Date: 18.MAR.2020 23:58:59

Highest Channel / Full RB

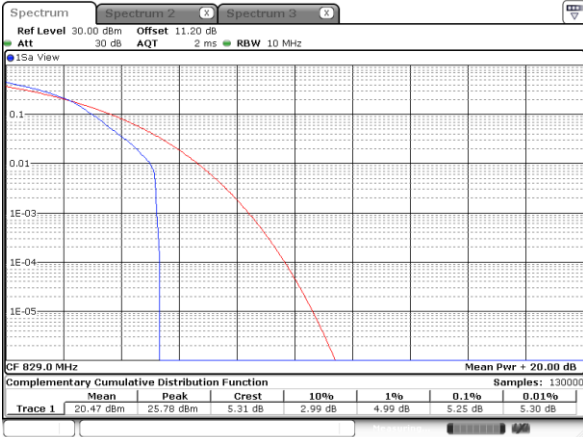


Date: 18.MAR.2020 23:59:15



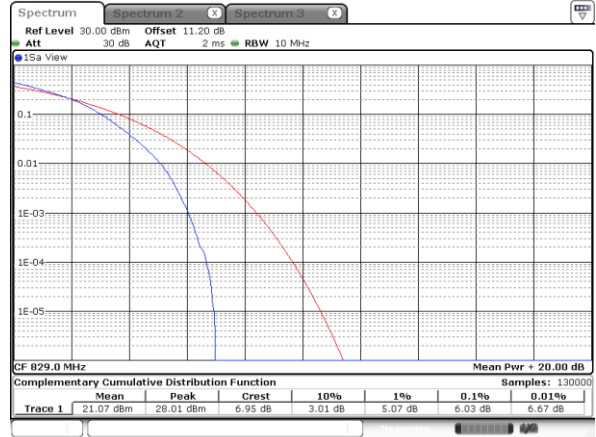
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



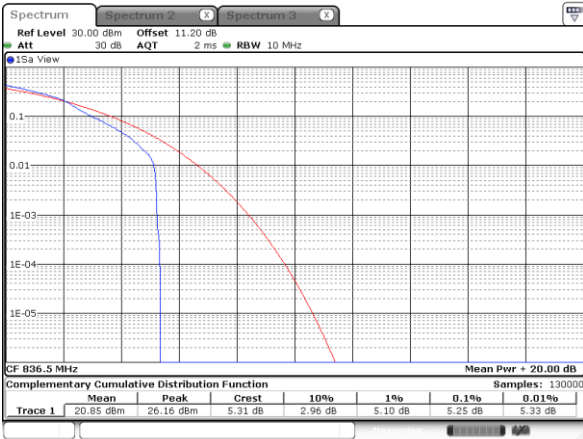
Date: 18.MAR.2020 23:56:53

Lowest Channel / Full RB



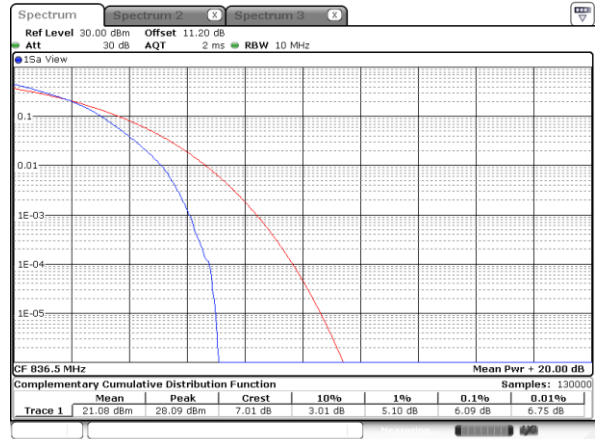
Date: 18.MAR.2020 23:57:04

Middle Channel / 1RB



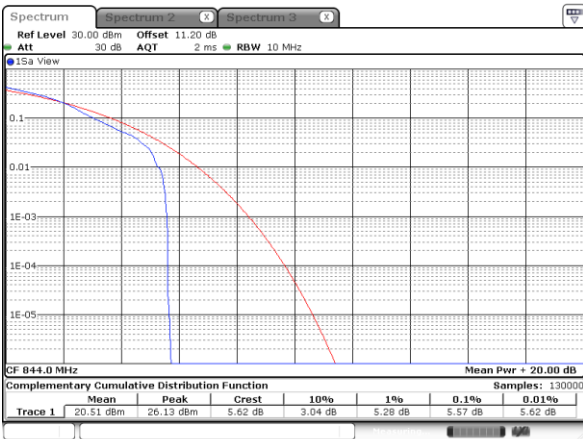
Date: 18.MAR.2020 23:57:15

Middle Channel / Full RB



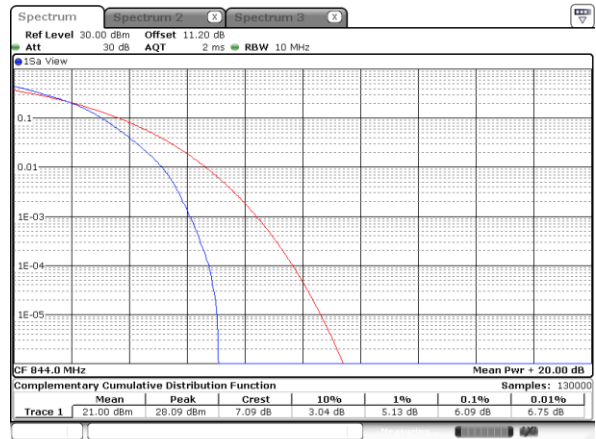
Date: 18.MAR.2020 23:57:26

Highest Channel / 1RB



Date: 18.MAR.2020 23:57:37

Highest Channel / Full RB

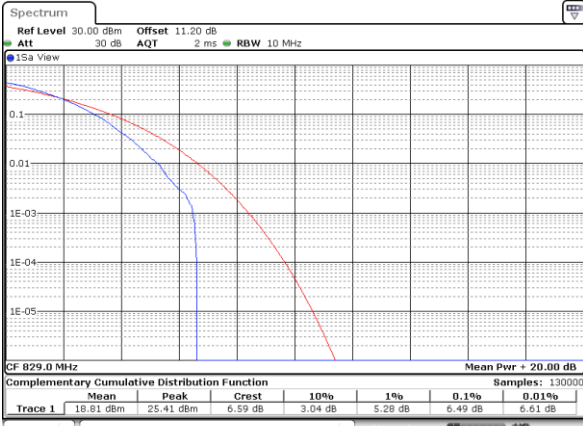


Date: 18.MAR.2020 23:57:50



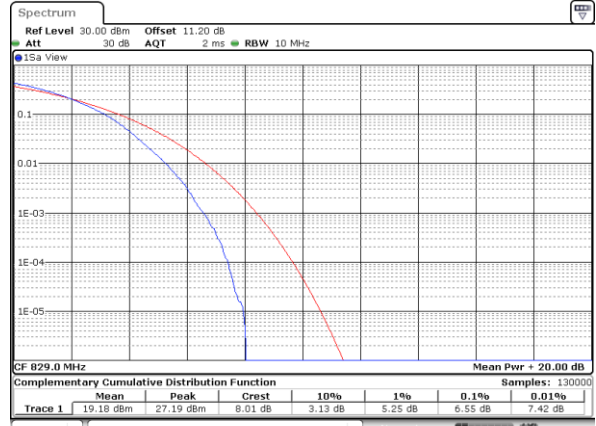
LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



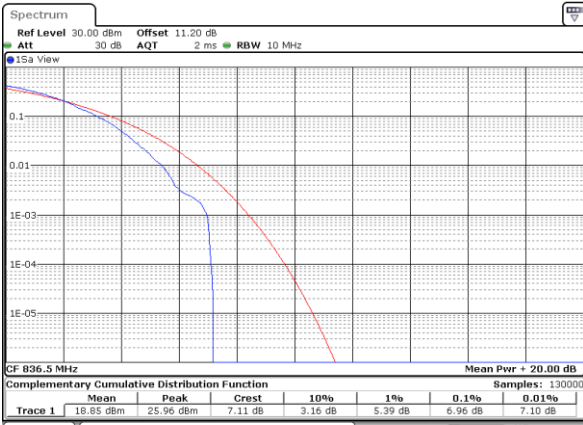
Date: 28.MAR.2020 20:07:41

Lowest Channel / Full RB



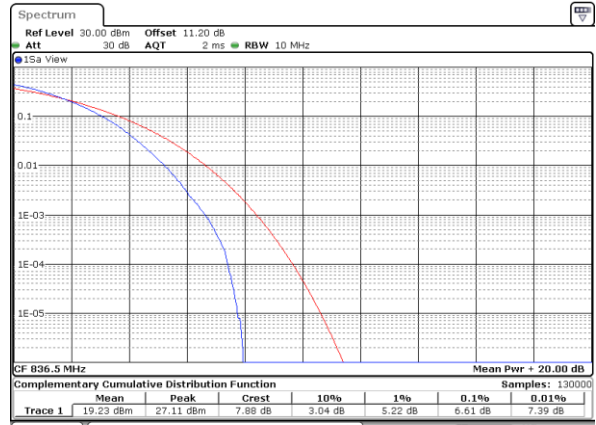
Date: 28.MAR.2020 20:07:53

Middle Channel / 1RB



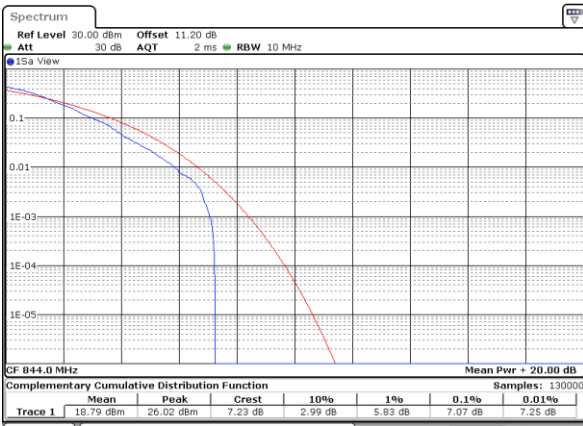
Date: 28.MAR.2020 20:11:03

Middle Channel / Full RB



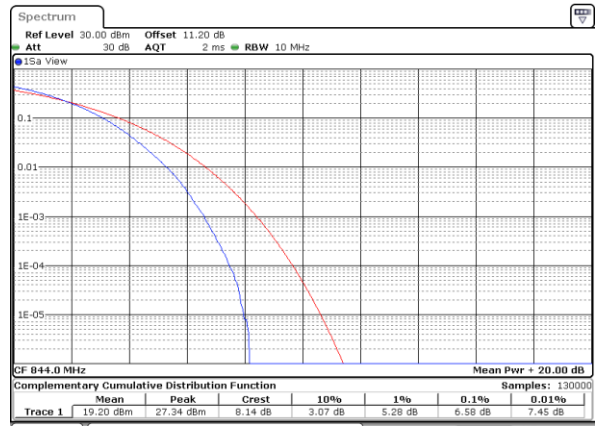
Date: 28.MAR.2020 20:11:14

Highest Channel / 1RB



Date: 28.MAR.2020 20:11:25

Highest Channel / Full RB



Date: 28.MAR.2020 20:11:36



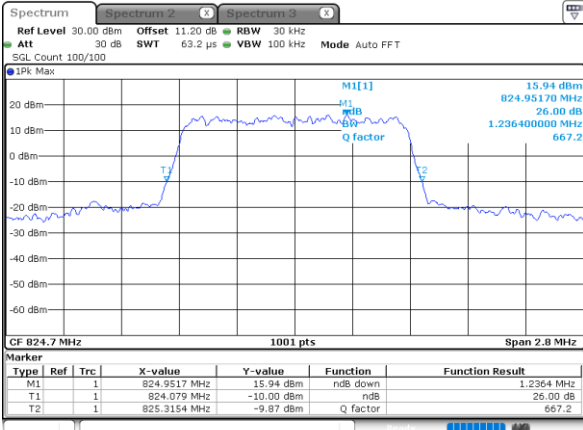
**26dB Bandwidth**

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.24	1.22	3.08	2.94	4.96	4.90	9.87	9.85	-	-	-	-
Middle CH	1.23	1.24	3.03	3.06	4.91	4.99	9.75	9.85	-	-	-	-
Highest CH	1.24	1.24	2.95	3.00	4.92	4.85	9.95	9.71	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.02	-	4.87	-	9.93	-	-	-	-	-
Middle CH	1.23	-	3.05	-	4.85	-	9.83	-	-	-	-	-
Highest CH	1.22	-	3.01	-	4.87	-	9.77	-	-	-	-	-



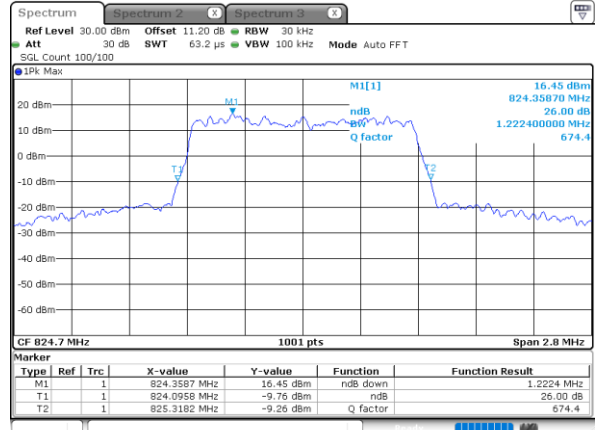
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



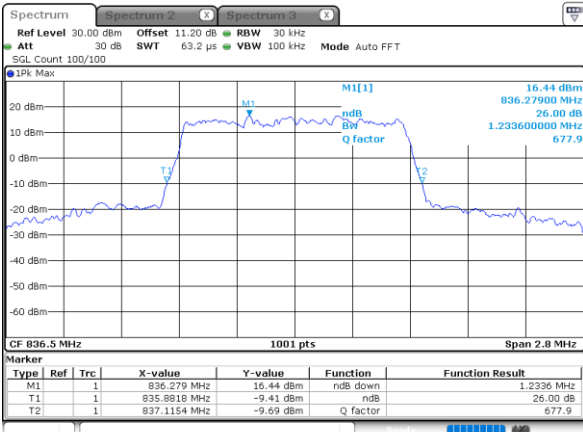
Date: 18.MAR.2020 23:38:39

Lowest Channel / 1.4MHz / 16QAM



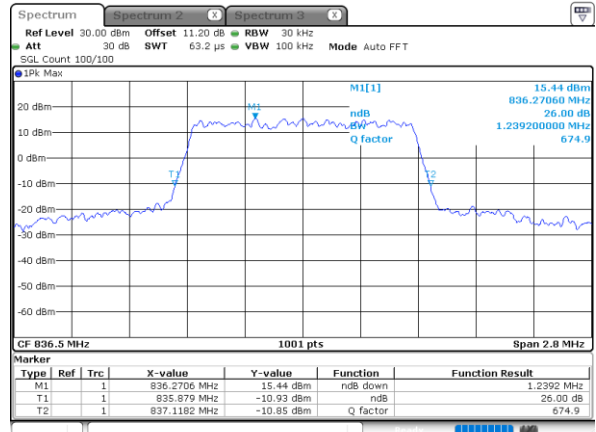
Date: 18.MAR.2020 23:38:27

Middle Channel / 1.4MHz / QPSK



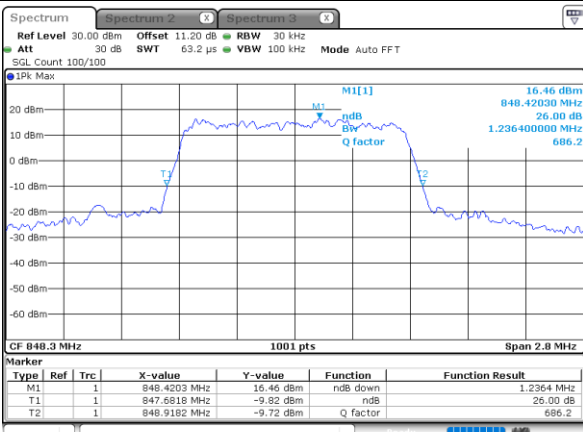
Date: 18.MAR.2020 23:44:08

Middle Channel / 1.4MHz / 16QAM



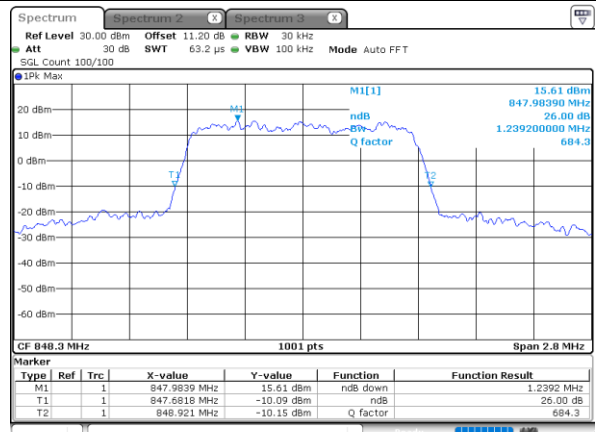
Date: 18.MAR.2020 23:44:20

Highest Channel / 1.4MHz / QPSK



Date: 18.MAR.2020 23:46:26

Highest Channel / 1.4MHz / 16QAM

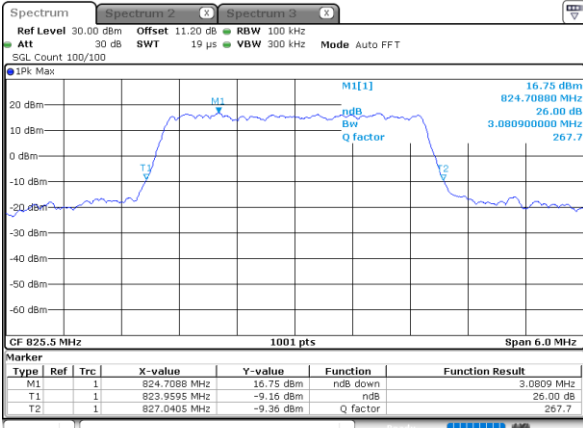


Date: 18.MAR.2020 23:46:38



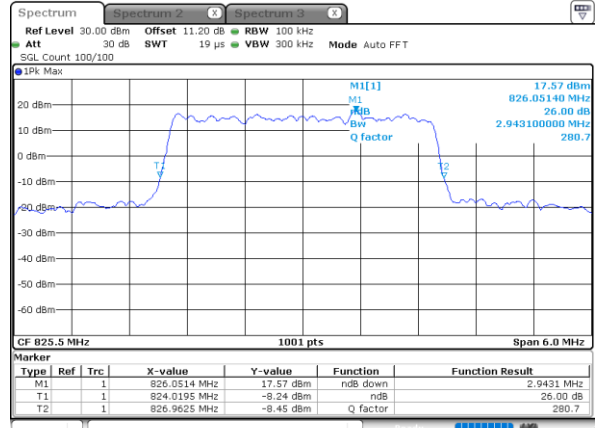
LTE Band 5

Lowest Channel / 3MHz / QPSK



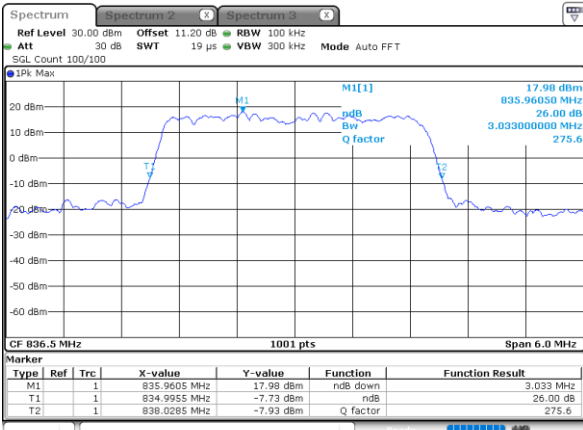
Date: 18\_MAR\_2020 22:23:01

Lowest Channel / 3MHz / 16QAM



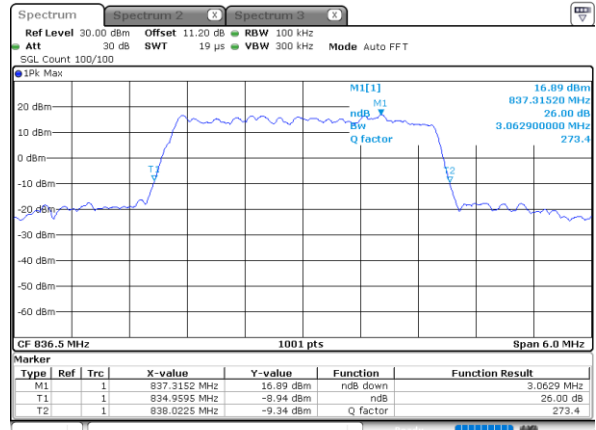
Date: 18\_MAR\_2020 22:23:13

Middle Channel / 3MHz / QPSK



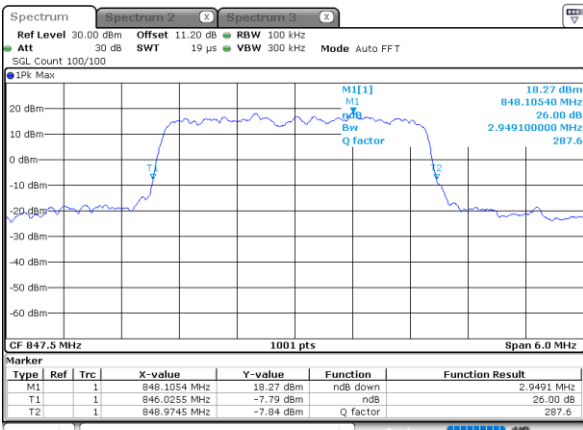
Date: 18\_MAR\_2020 22:43:29

Middle Channel / 3MHz / 16QAM



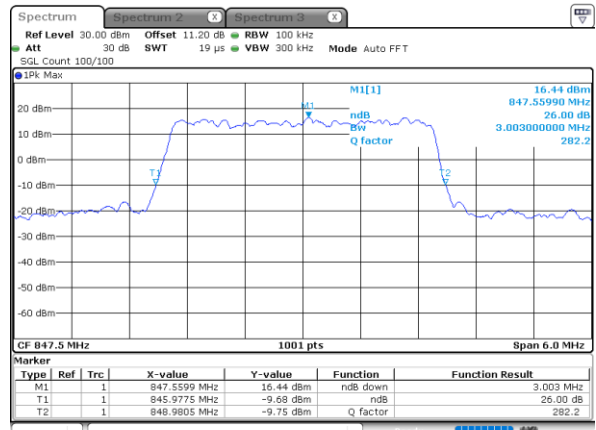
Date: 18\_MAR\_2020 22:43:41

Highest Channel / 3MHz / QPSK



Date: 18\_MAR\_2020 22:45:47

Highest Channel / 3MHz / 16QAM



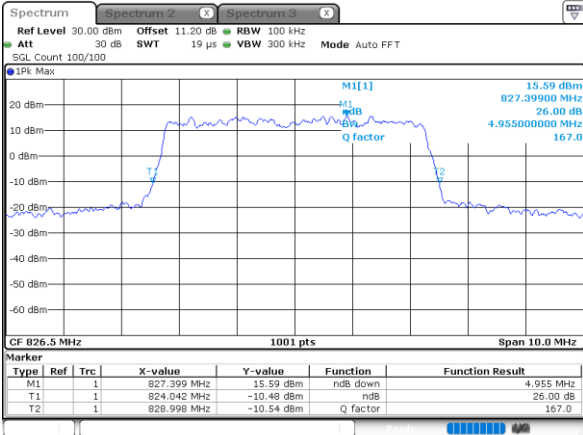
Date: 18\_MAR\_2020 22:45:59



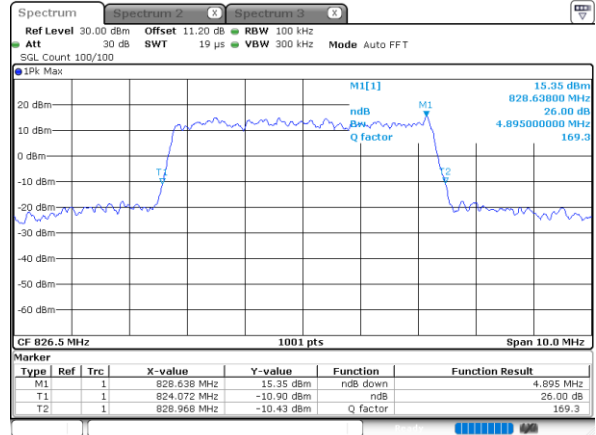


LTE Band 5

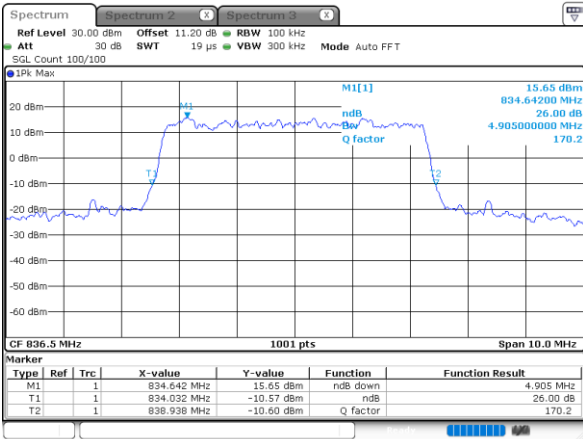
Lowest Channel / 5MHz / QPSK



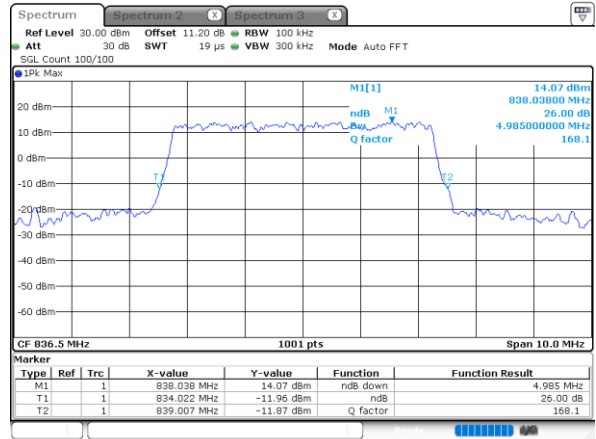
Lowest Channel / 5MHz / 16QAM



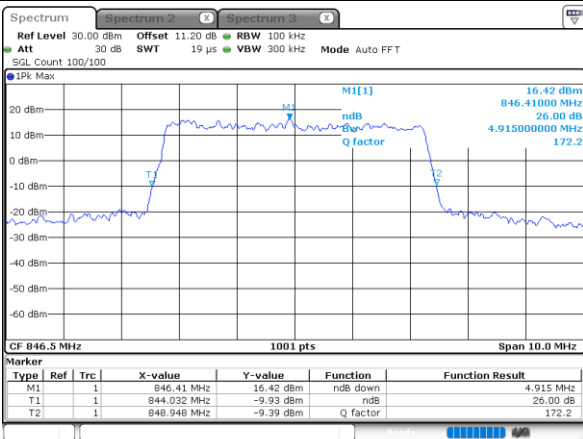
Middle Channel / 5MHz / QPSK



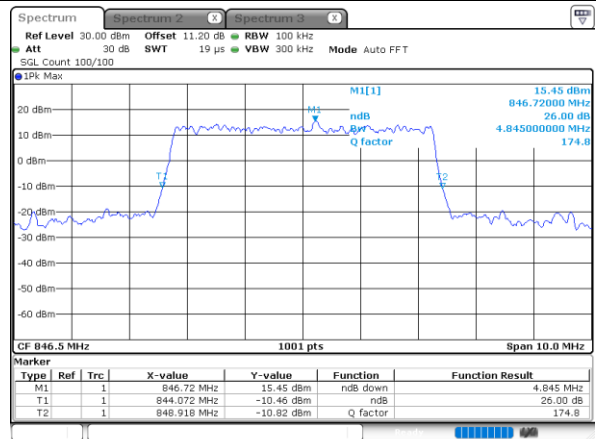
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



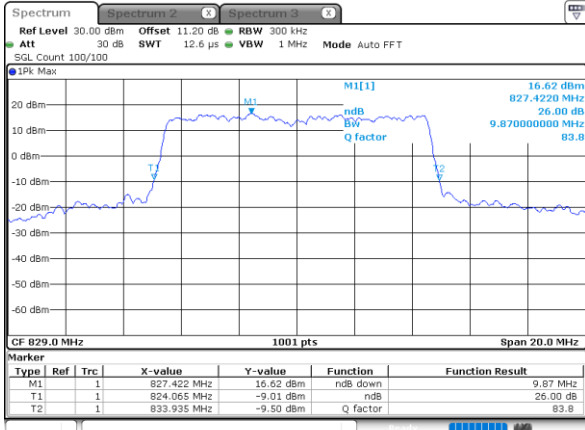
Highest Channel / 5MHz / 16QAM





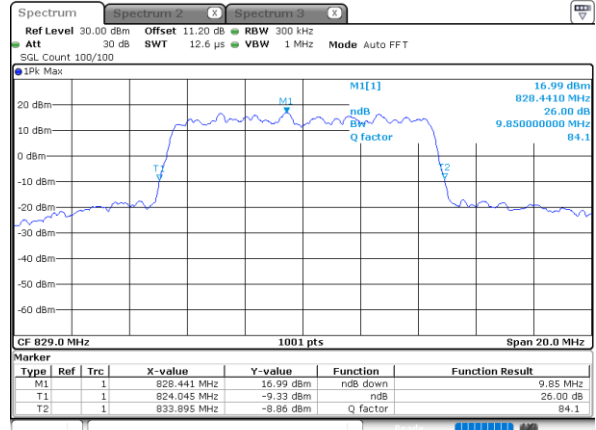
LTE Band 5

Lowest Channel / 10MHz / QPSK



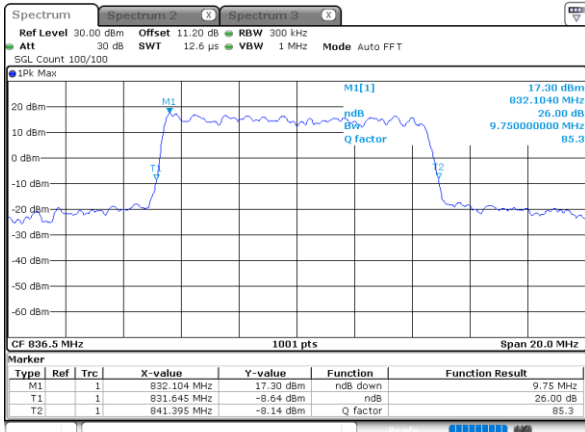
Date: 18\_MAR\_2020 23:15:11

Lowest Channel / 10MHz / 16QAM



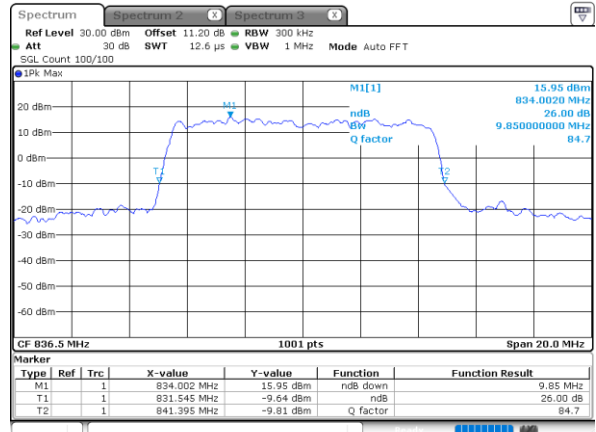
Date: 18\_MAR\_2020 23:15:23

Middle Channel / 10MHz / QPSK



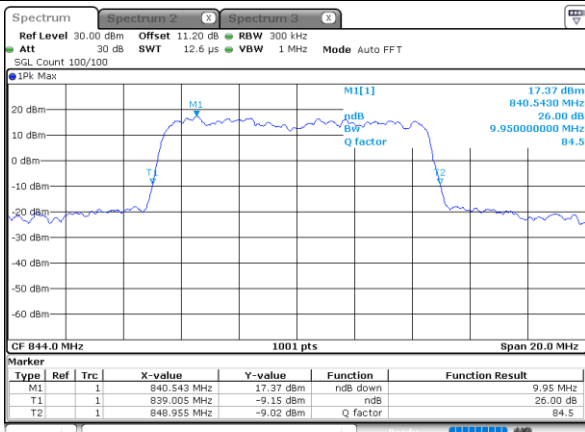
Date: 18\_MAR\_2020 23:24:12

Middle Channel / 10MHz / 16QAM



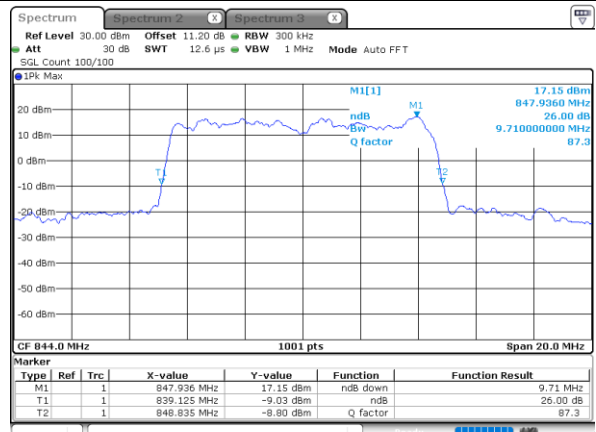
Date: 18\_MAR\_2020 23:24:23

Highest Channel / 10MHz / QPSK



Date: 18\_MAR\_2020 23:26:30

Highest Channel / 10MHz / 16QAM



Date: 18\_MAR\_2020 23:26:42