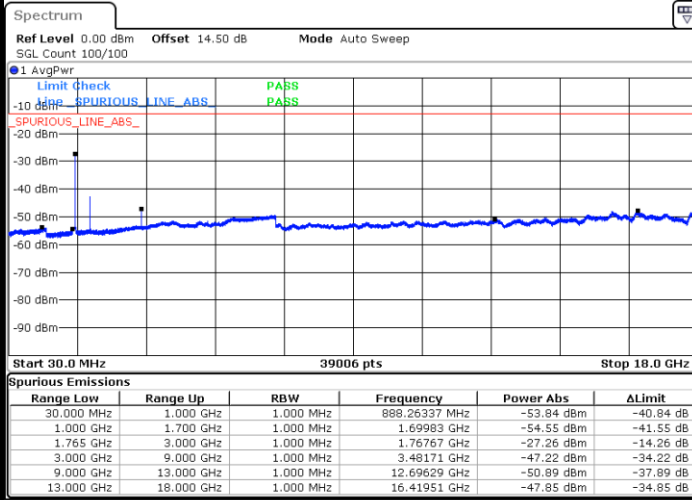




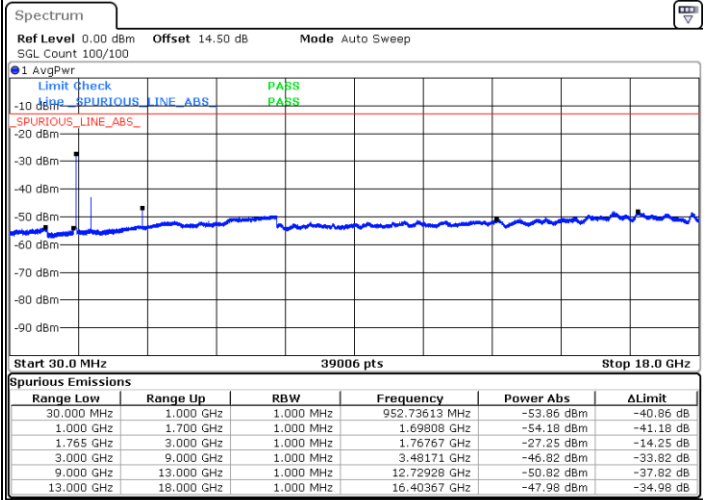
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 14.MAR.2020 17:57:42

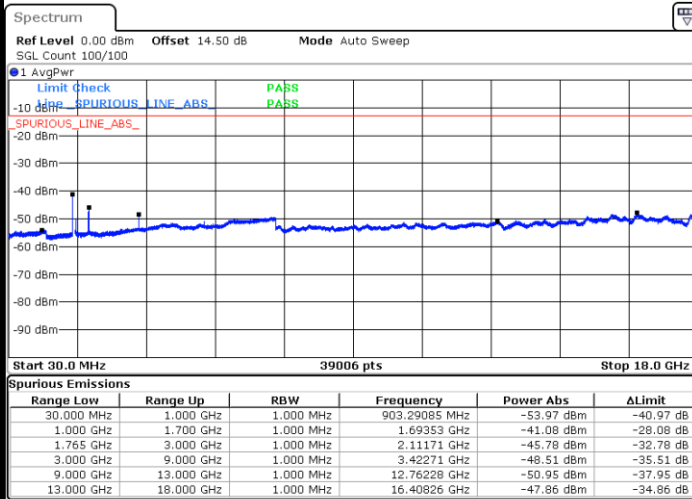
Highest Channel / 16QAM



Date: 14.MAR.2020 17:58:16

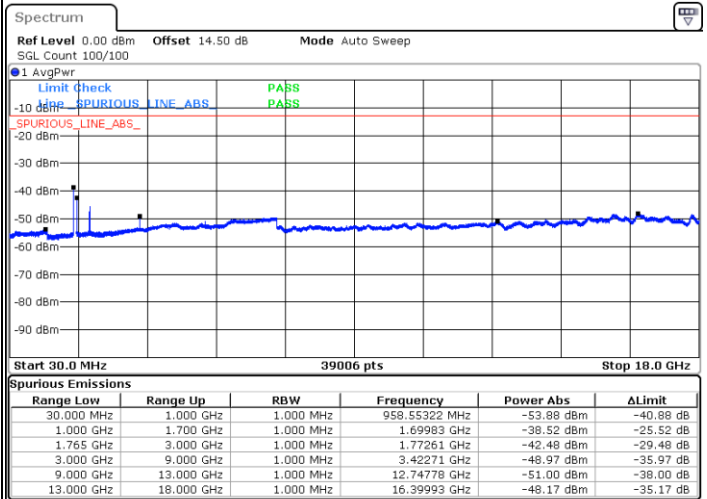
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 14.MAR.2020 18:03:30

Lowest Channel / 16QAM

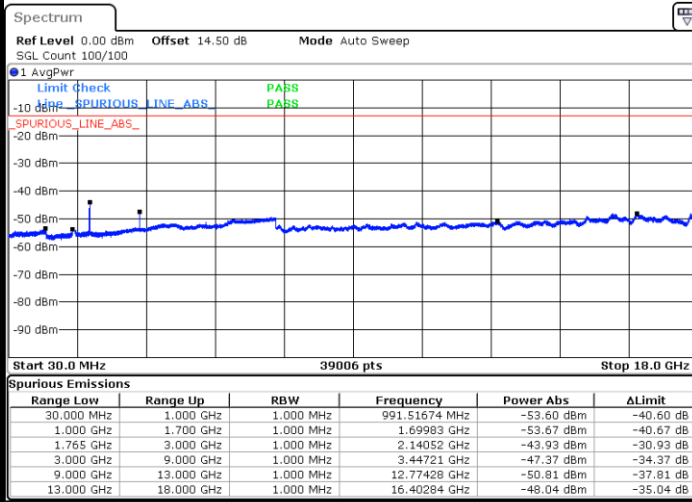


Date: 14.MAR.2020 18:04:05



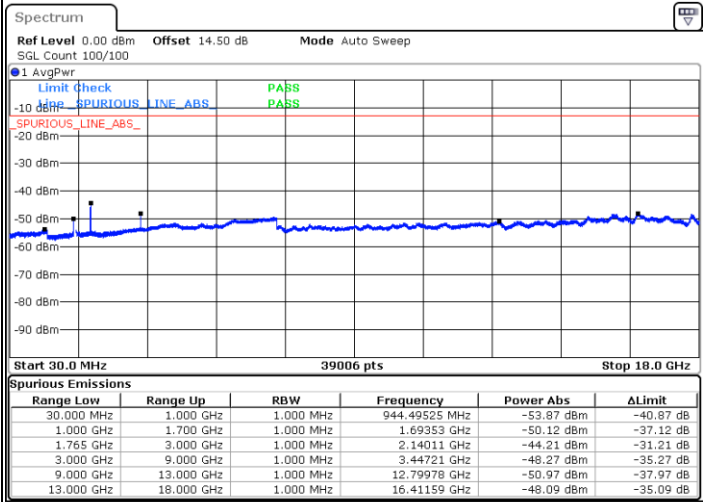
LTE Band 4 / 20MHz

Middle Channel / QPSK



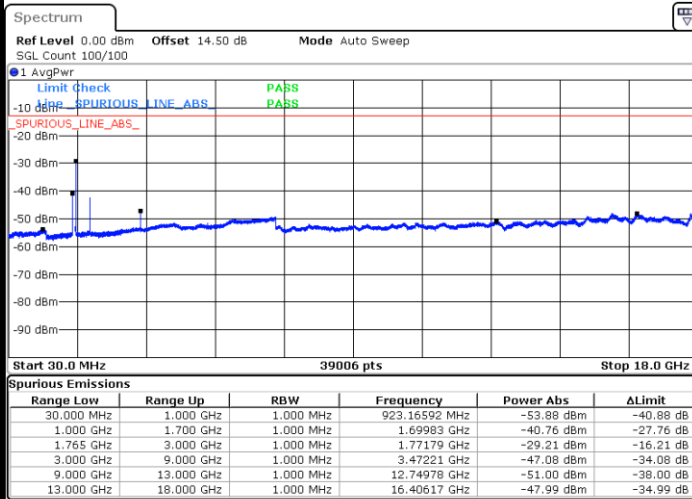
Date: 14.MAR.2020 18:05:23

Middle Channel / 16QAM



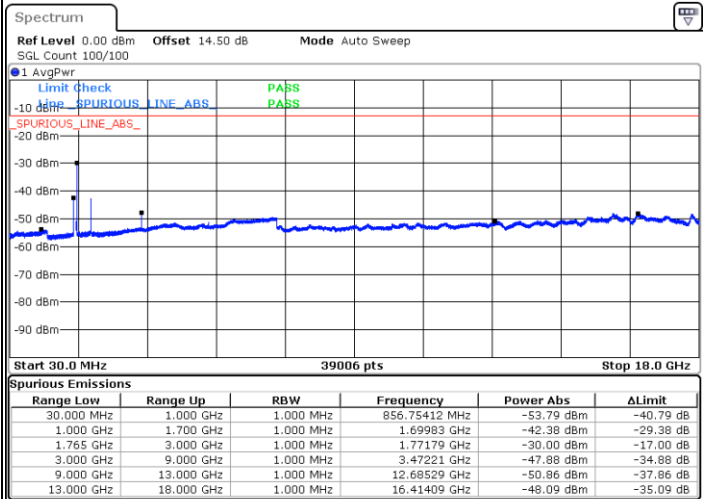
Date: 14.MAR.2020 18:05:57

Highest Channel / QPSK



Date: 14.MAR.2020 18:11:11

Highest Channel / 16QAM



Date: 14.MAR.2020 18:11:46

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	0.0023	PASS
40	Normal Voltage	0.0033	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0039	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0055	
20	Maximum Voltage	0.0080	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

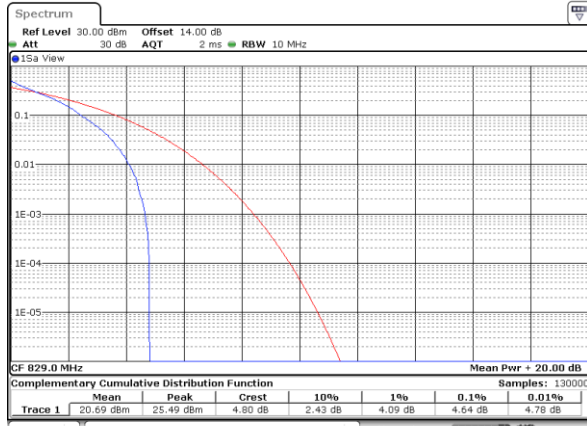
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



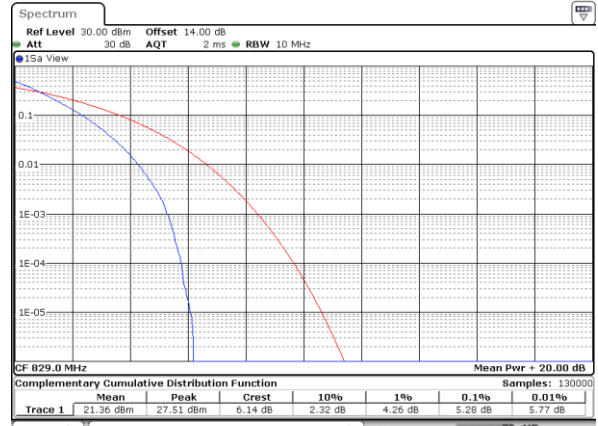
LTE Band 5

Peak-to-Average Ratio

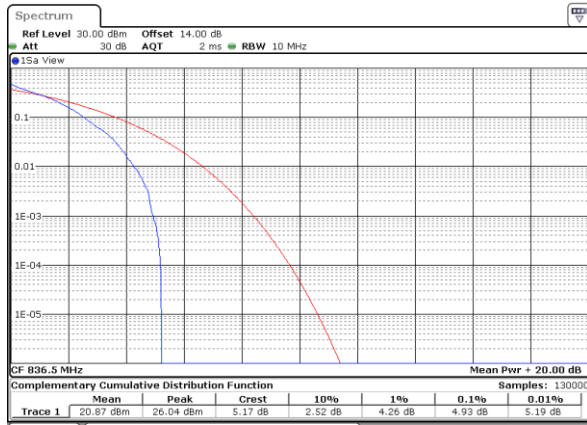
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.64	5.28	5.39	6.09	PASS
Middle CH	4.93	5.16	6.00	6.06	
Highest CH	4.09	5.13	4.96	5.88	

LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB


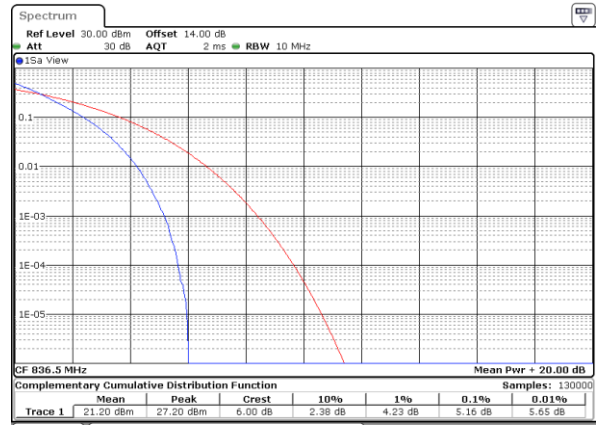
Date: 15.MAR.2020 14:04:27

Lowest Channel / Full RB


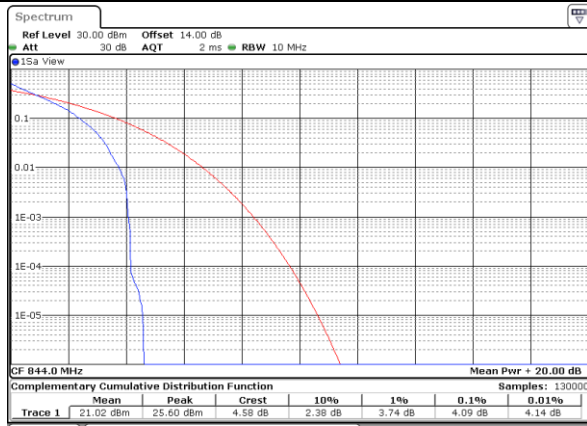
Date: 15.MAR.2020 14:05:00

Middle Channel / 1RB


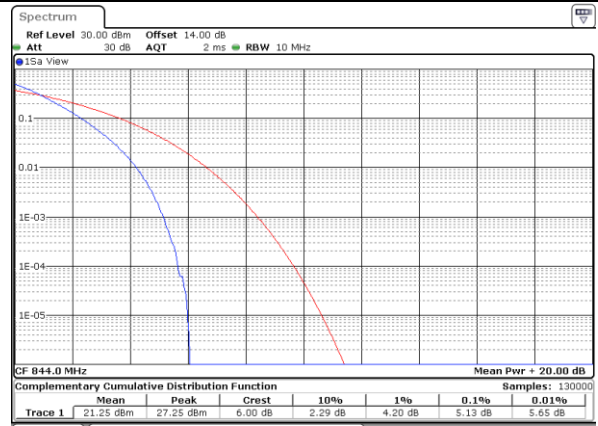
Date: 15.MAR.2020 14:05:23

Middle Channel / Full RB


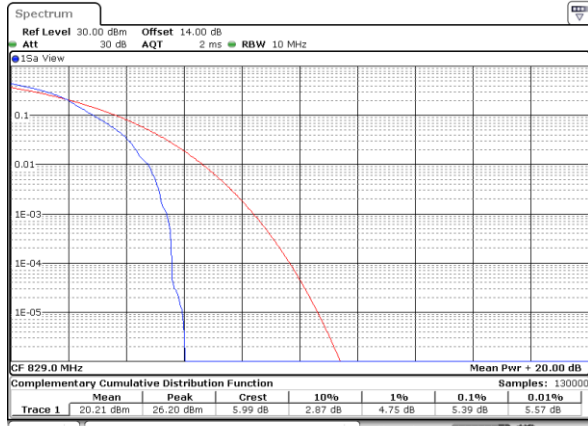
Date: 15.MAR.2020 14:05:34

Highest Channel / 1RB


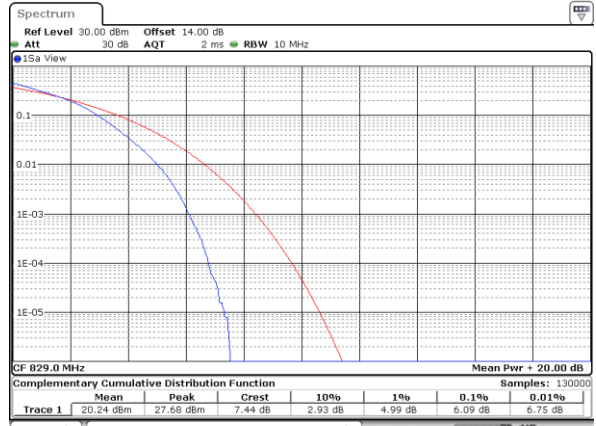
Date: 15.MAR.2020 14:05:46

Highest Channel / Full RB


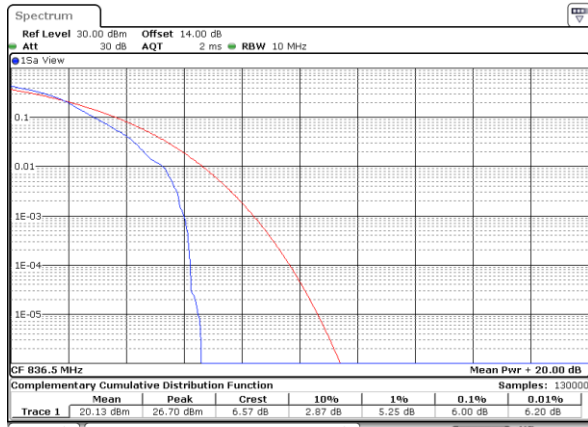
Date: 15.MAR.2020 14:05:57

LTE Band 5 / 10MHz / 16QAM
Lowest Channel / 1RB


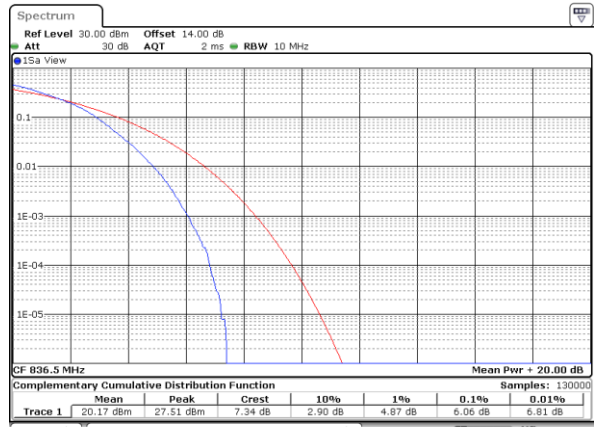
Date: 15.MAR.2020 11:57:43

Lowest Channel / Full RB


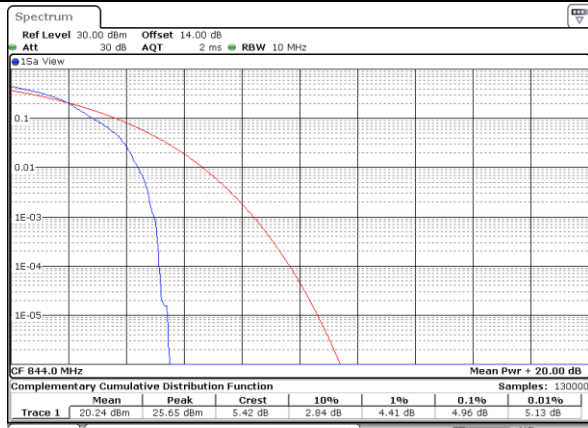
Date: 15.MAR.2020 11:57:58

Middle Channel / 1RB


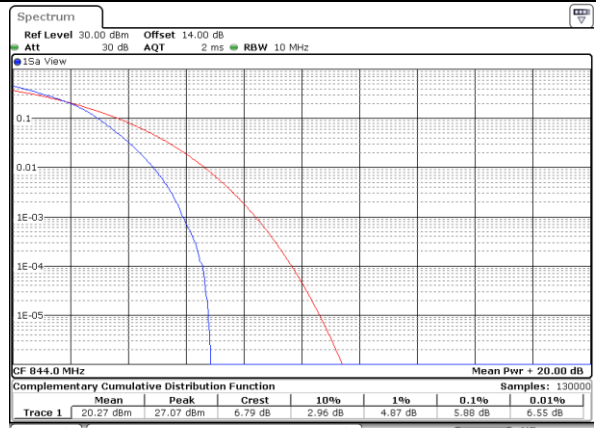
Date: 15.MAR.2020 11:58:42

Middle Channel / Full RB


Date: 15.MAR.2020 11:58:54

Highest Channel / 1RB


Date: 15.MAR.2020 11:59:12

Highest Channel / Full RB


Date: 15.MAR.2020 11:59:23

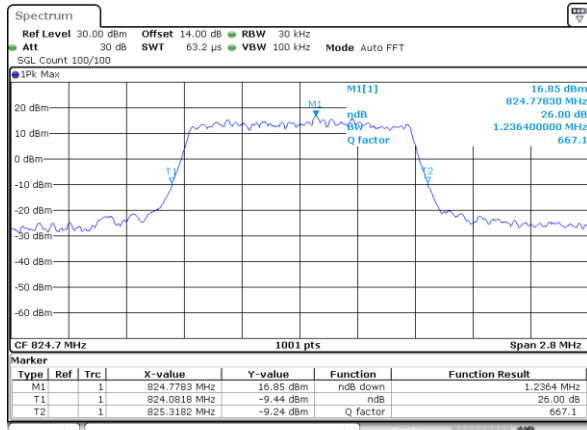
**26dB Bandwidth**

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	1.26	3.03	3.04	5.29	4.91	9.85	9.99	-	-	-	-
Middle CH	1.25	1.28	3.10	3.10	5.00	4.88	10.01	9.95	-	-	-	-
Highest CH	1.24	1.25	3.07	3.18	4.96	4.87	9.87	9.85	-	-	-	-



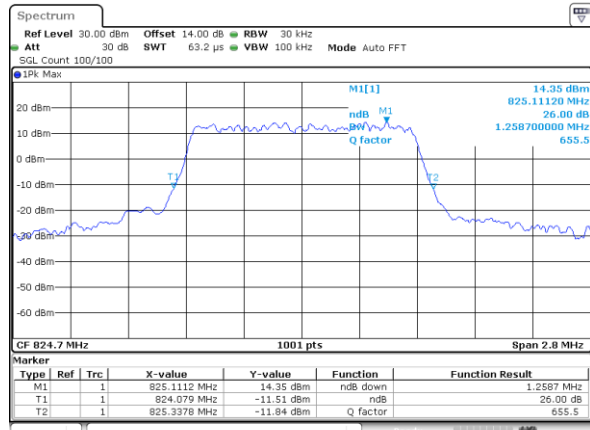
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



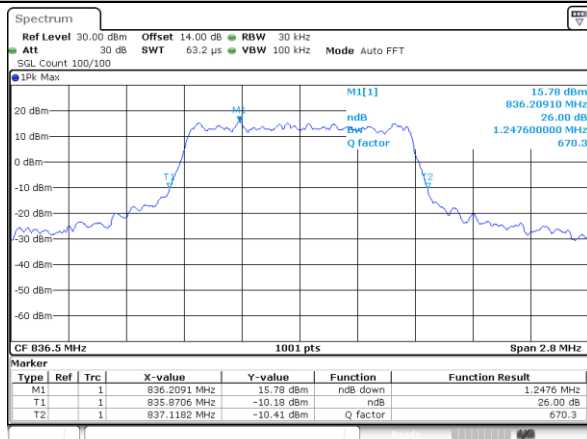
Date: 15.MAR.2020 13:52:16

Lowest Channel / 1.4MHz / 16QAM



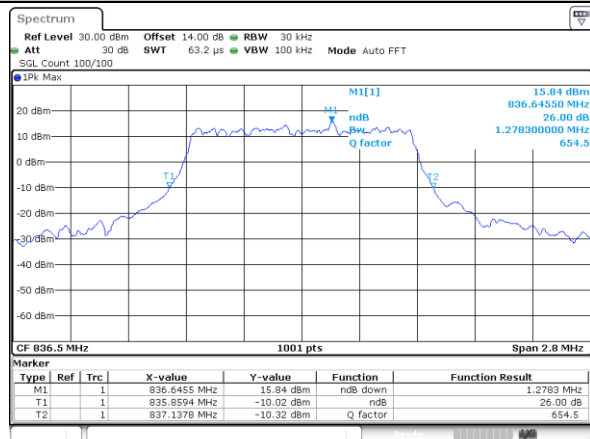
Date: 15.MAR.2020 11:35:14

Middle Channel / 1.4MHz / QPSK



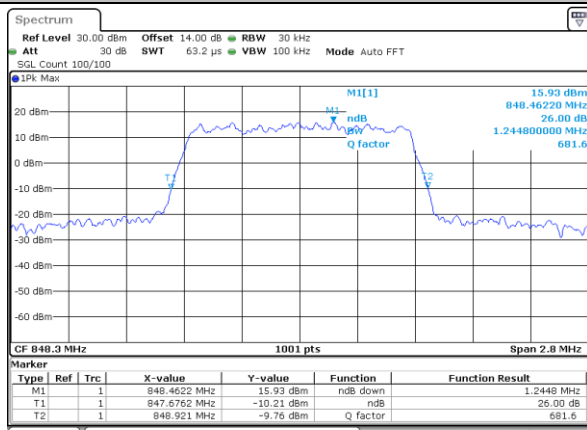
Date: 15.MAR.2020 13:54:57

Middle Channel / 1.4MHz / 16QAM



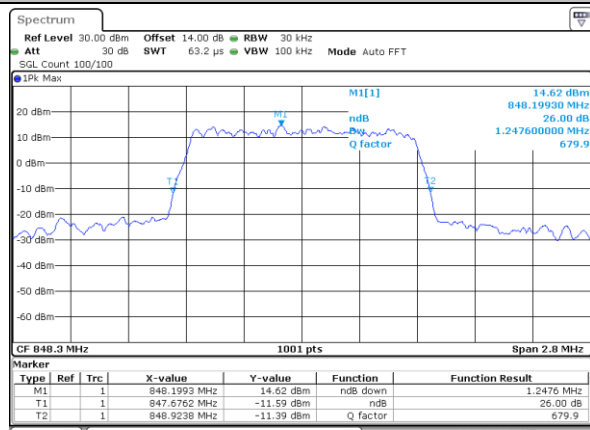
Date: 15.MAR.2020 11:38:34

Highest Channel / 1.4MHz / QPSK



Date: 15.MAR.2020 13:55:57

Highest Channel / 1.4MHz / 16QAM

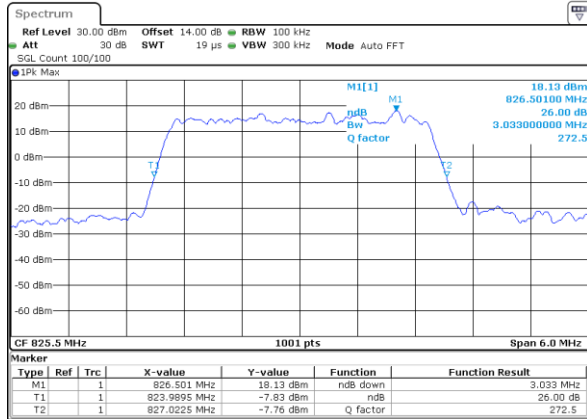


Date: 15.MAR.2020 11:39:34



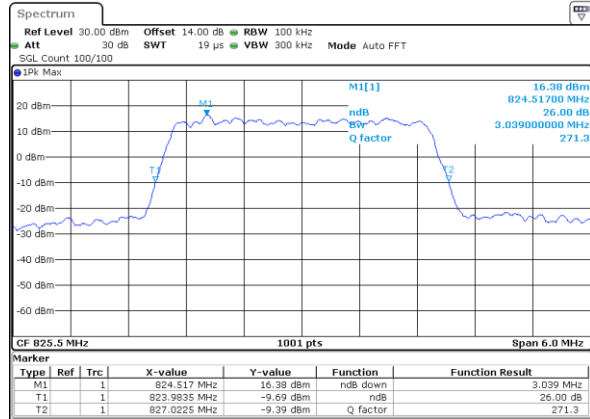
LTE Band 5

Lowest Channel / 3MHz / QPSK



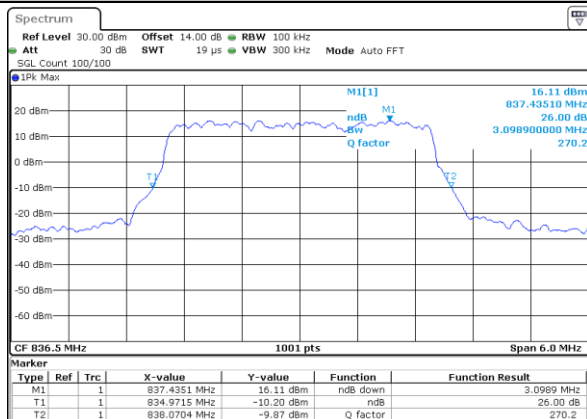
Date: 15.MAR.2020 12:14:50

Lowest Channel / 3MHz / 16QAM



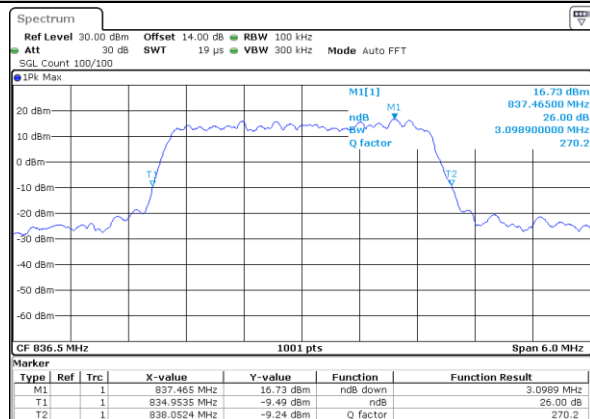
Date: 15.MAR.2020 11:06:55

Middle Channel / 3MHz / QPSK



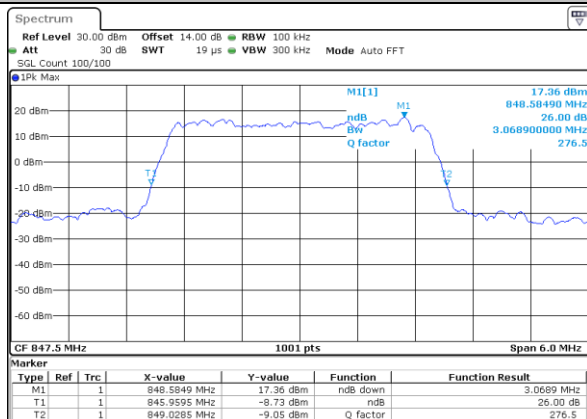
Date: 15.MAR.2020 12:19:10

Middle Channel / 3MHz / 16QAM



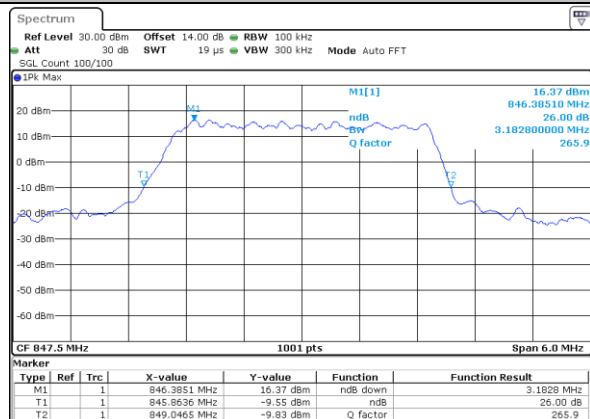
Date: 15.MAR.2020 11:11:15

Highest Channel / 3MHz / QPSK



Date: 15.MAR.2020 12:20:10

Highest Channel / 3MHz / 16QAM

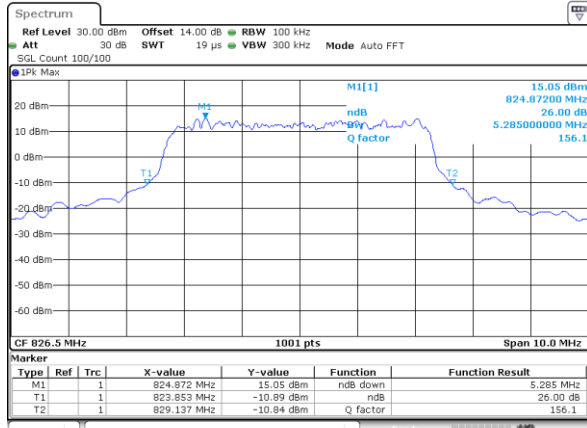


Date: 15.MAR.2020 11:12:15

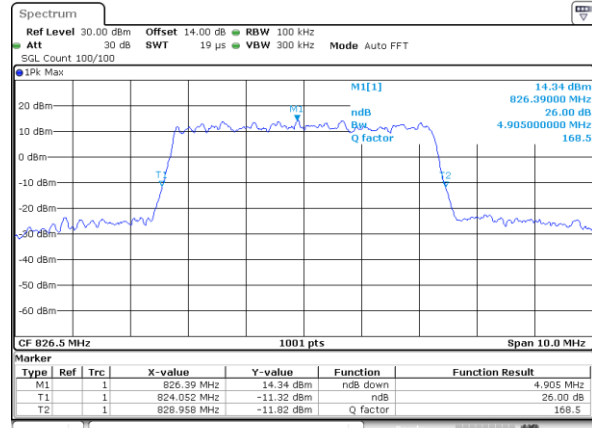


LTE Band 5

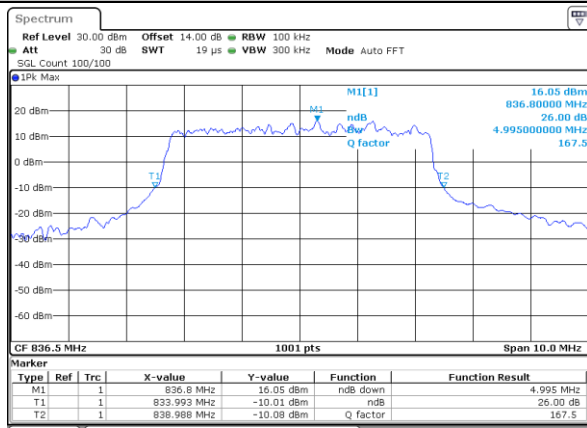
Lowest Channel / 5MHz / QPSK



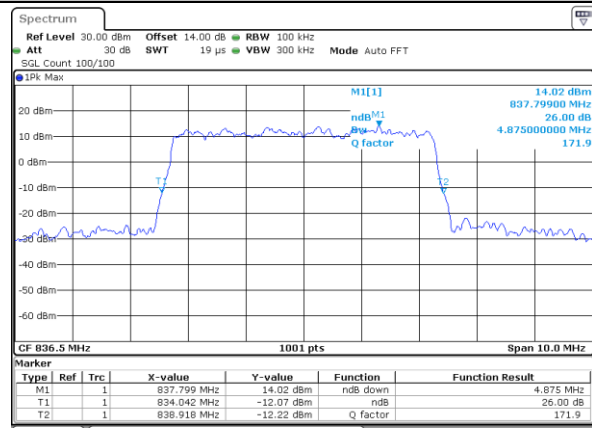
Lowest Channel / 5MHz / 16QAM



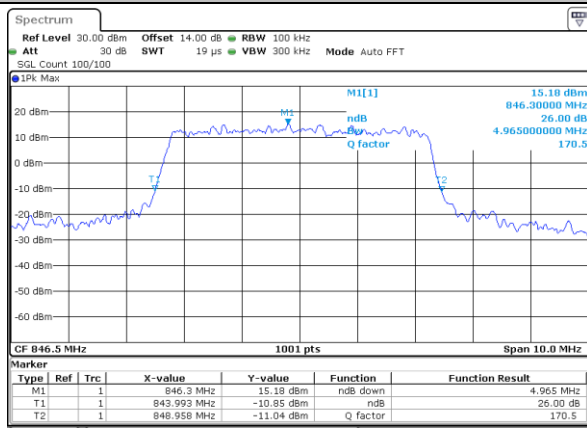
Middle Channel / 5MHz / QPSK



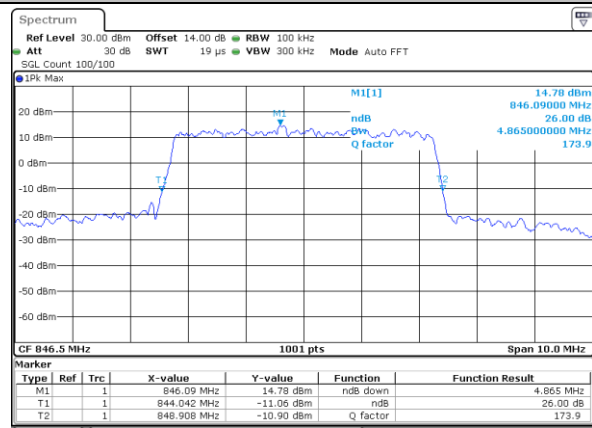
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



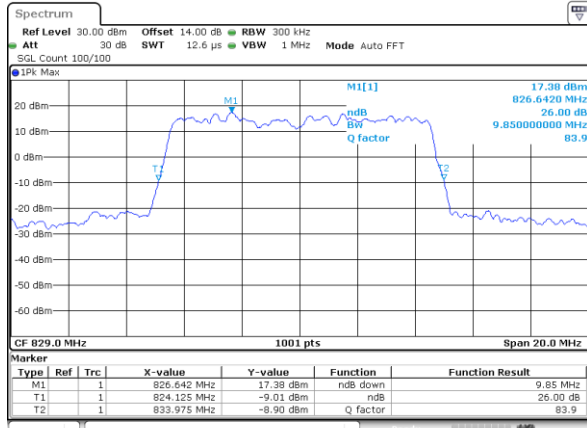
Highest Channel / 5MHz / 16QAM





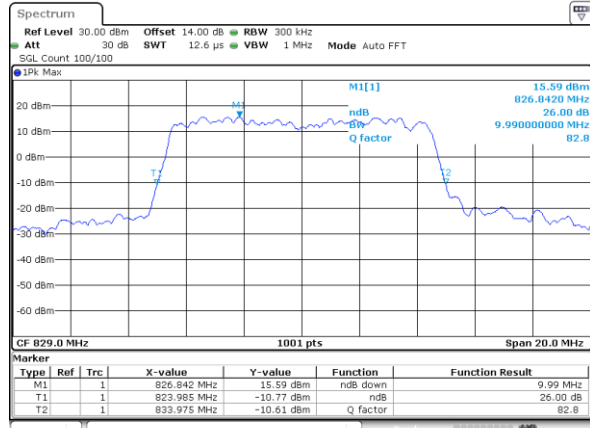
LTE Band 5

Lowest Channel / 10MHz / QPSK



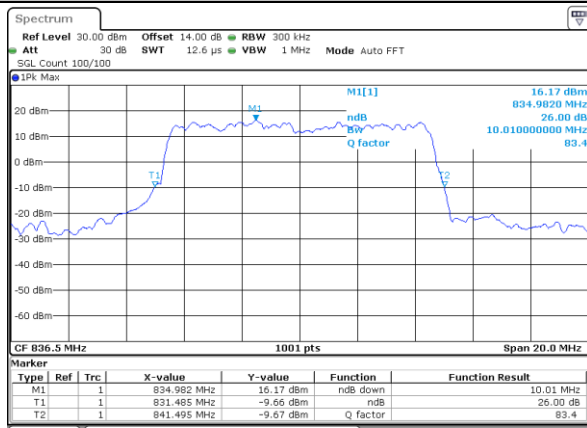
Date: 15.MAR.2020 13:28:11

Lowest Channel / 10MHz / 16QAM



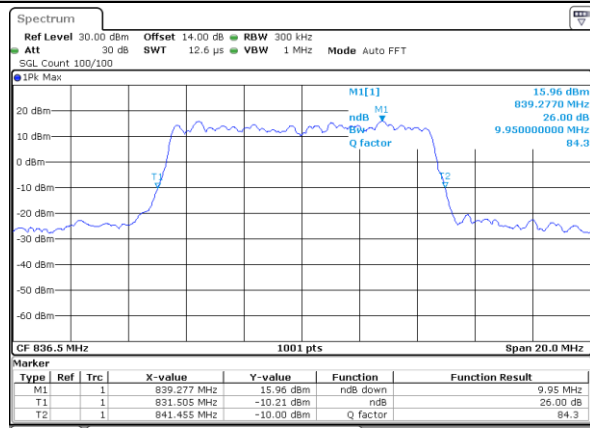
Date: 15.MAR.2020 11:26:15

Middle Channel / 10MHz / QPSK



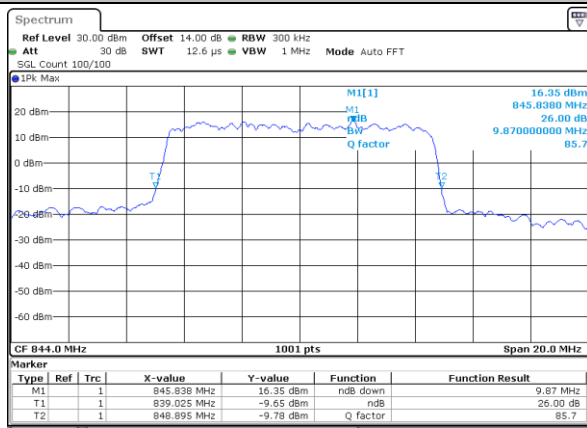
Date: 15.MAR.2020 13:37:35

Middle Channel / 10MHz / 16QAM



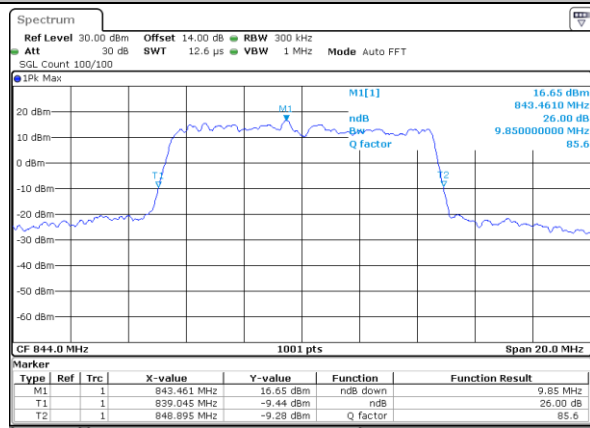
Date: 15.MAR.2020 11:30:35

Highest Channel / 10MHz / QPSK



Date: 15.MAR.2020 14:20:33

Highest Channel / 10MHz / 16QAM



Date: 15.MAR.2020 11:31:34

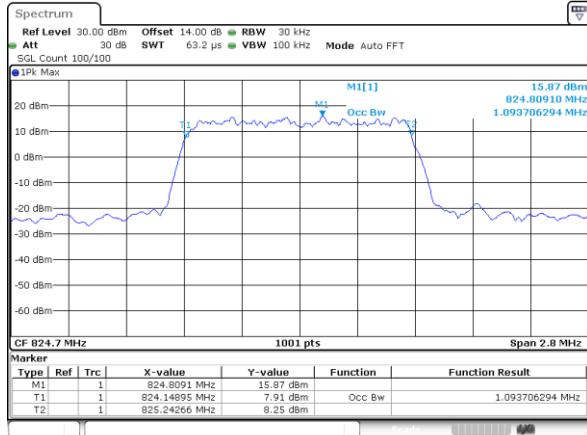
**Occupied Bandwidth**

Mode	LTE Band 5 : 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	1.09	1.09	2.75	2.72	4.49	4.48	9.13	9.01	-	-	-	-
Middle CH	1.10	1.09	2.73	2.72	4.49	4.49	9.01	9.07	-	-	-	-
Highest CH	1.09	1.09	2.77	2.73	4.51	4.48	9.01	9.01	-	-	-	-



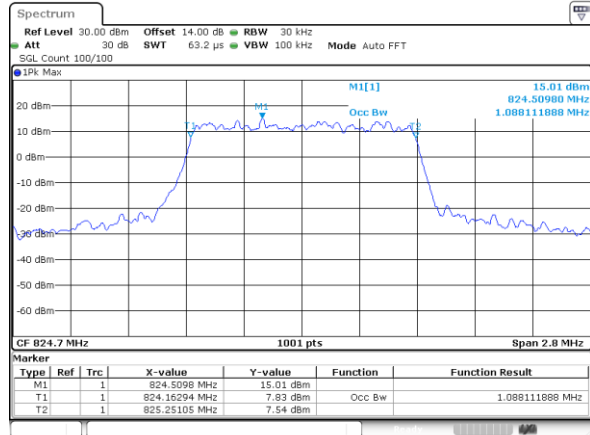
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



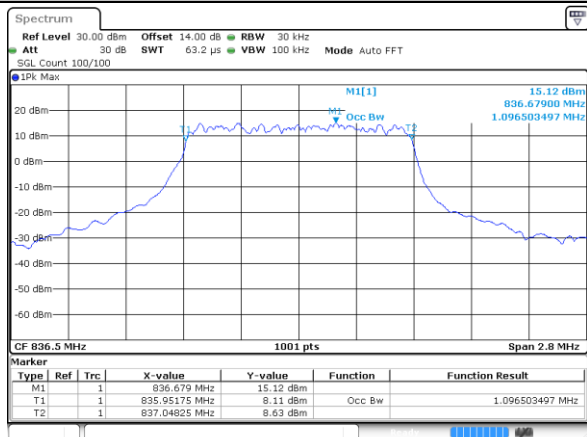
Date: 15, MAR, 2020 13:52:05

Lowest Channel / 1.4MHz / 16QAM



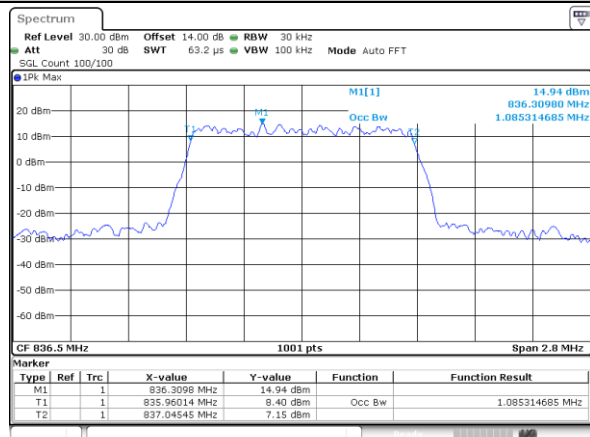
Date: 15, MAR, 2020 11:35:42

Middle Channel / 1.4MHz / QPSK



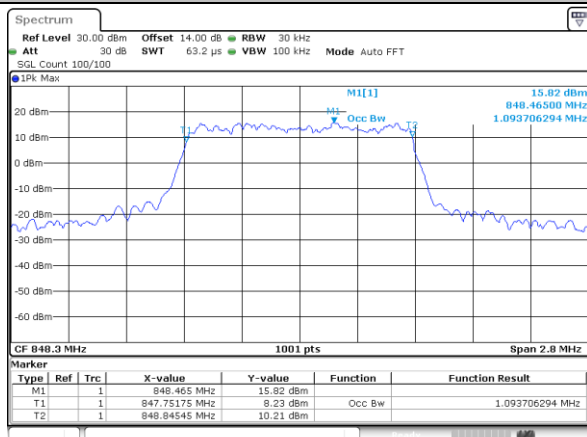
Date: 20 MAR 2020 23:43:04

Middle Channel / 1.4MHz / 16QAM



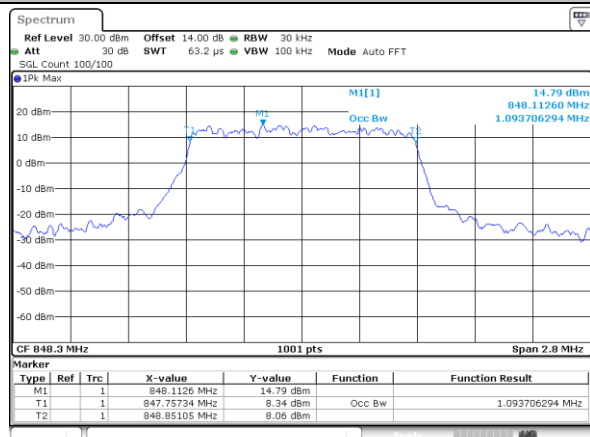
Date: 15, MAR, 2020 11:38:23

Highest Channel / 1.4MHz / QPSK



Date: 15, MAR, 2020 13:55:45

Highest Channel / 1.4MHz / 16QAM

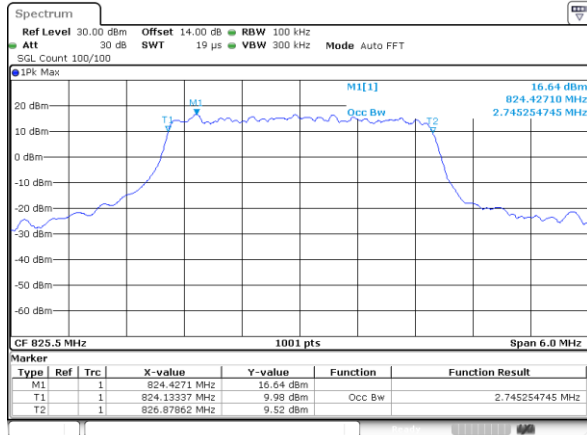


Date: 15, MAR, 2020 11:39:22

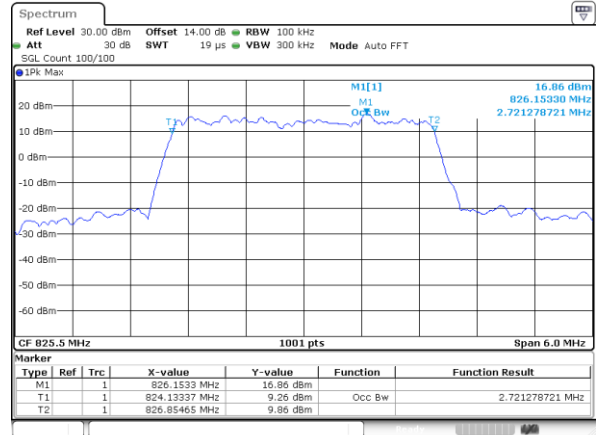


LTE Band 5

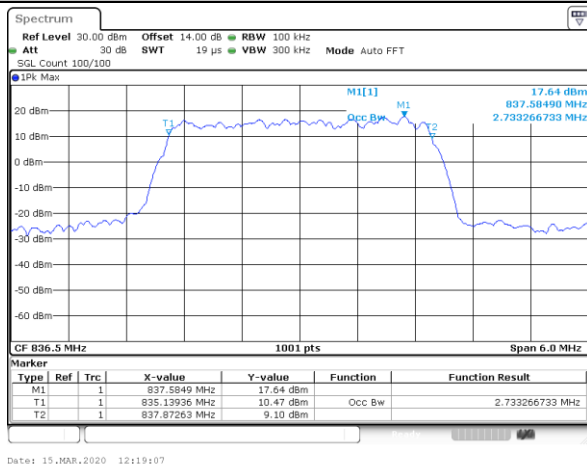
Lowest Channel / 3MHz / QPSK



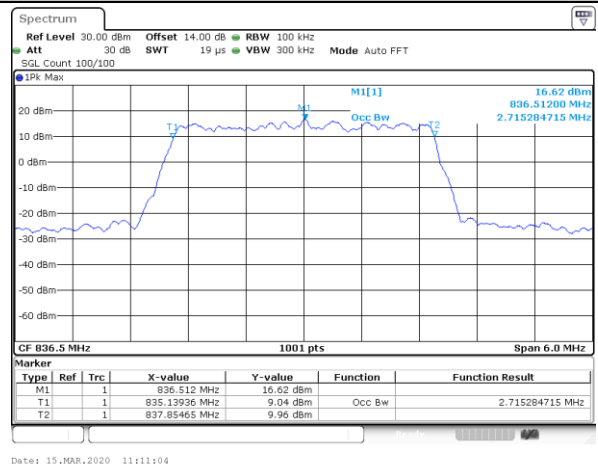
Lowest Channel / 3MHz / 16QAM



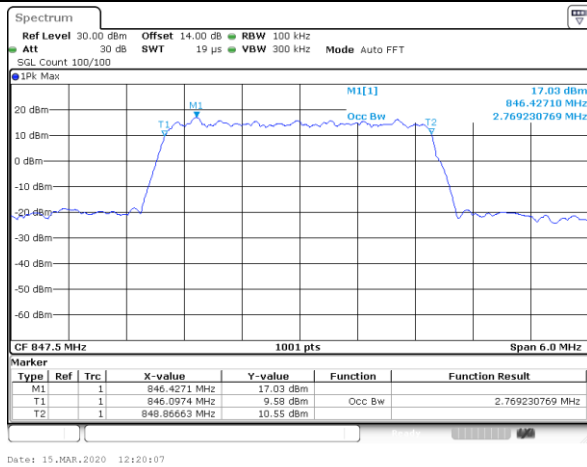
Middle Channel / 3MHz / QPSK



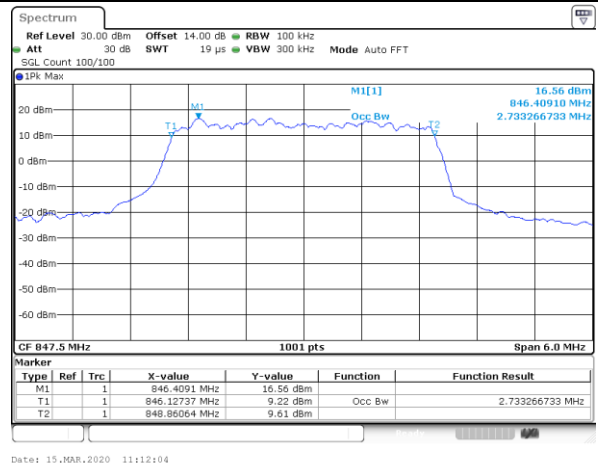
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



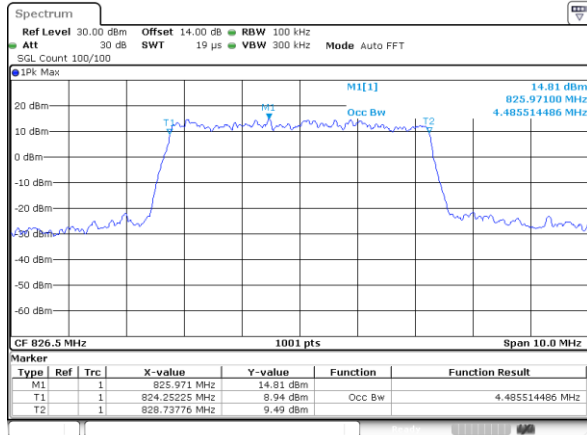
Highest Channel / 3MHz / 16QAM



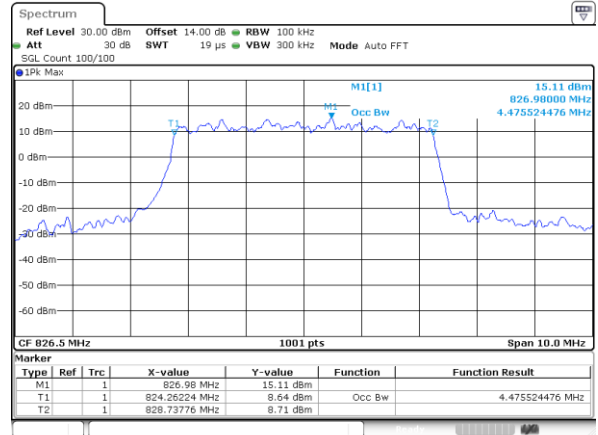


LTE Band 5

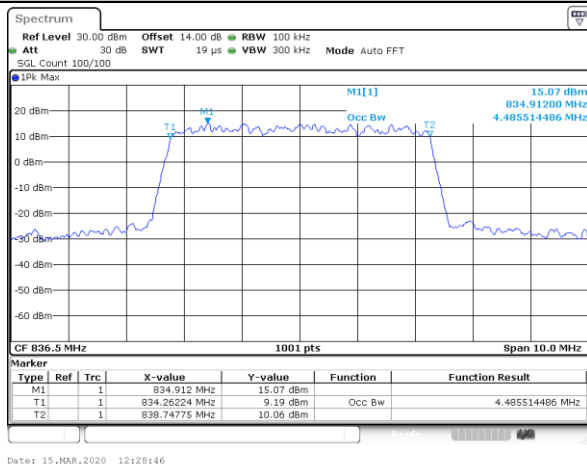
Lowest Channel / 5MHz / QPSK



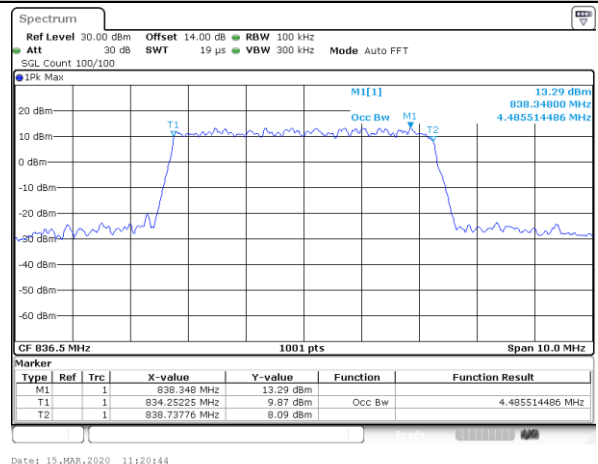
Lowest Channel / 5MHz / 16QAM



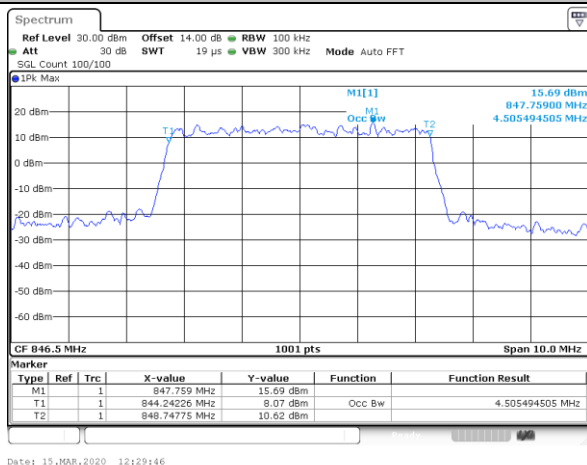
Middle Channel / 5MHz / QPSK



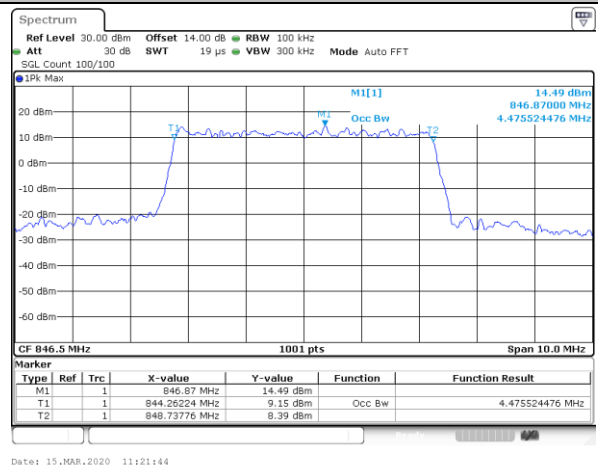
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



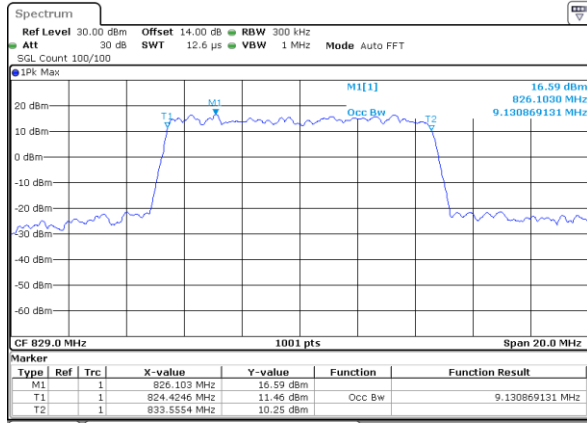
Highest Channel / 5MHz / 16QAM





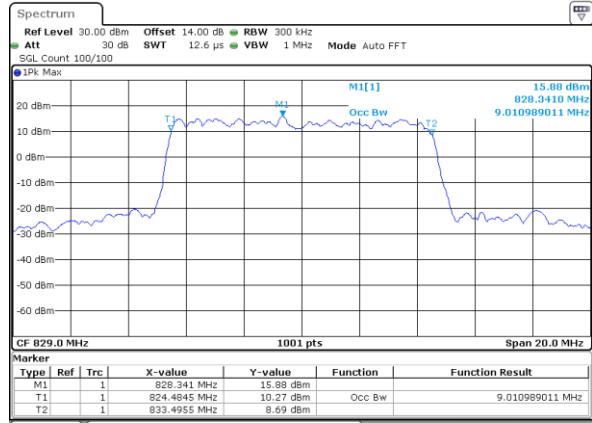
LTE Band 5

Lowest Channel / 10MHz / QPSK



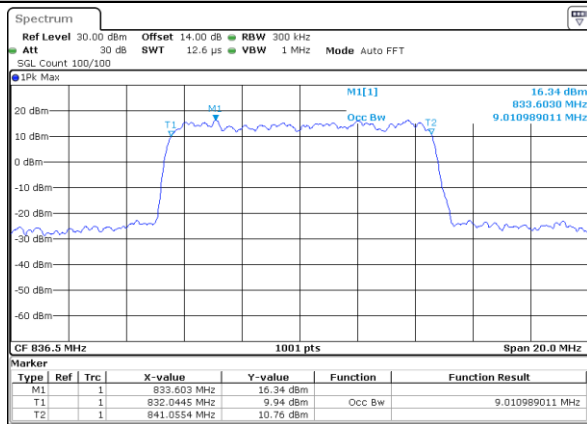
Date: 15.MAR.2020 13:28:00

Lowest Channel / 10MHz / 16QAM



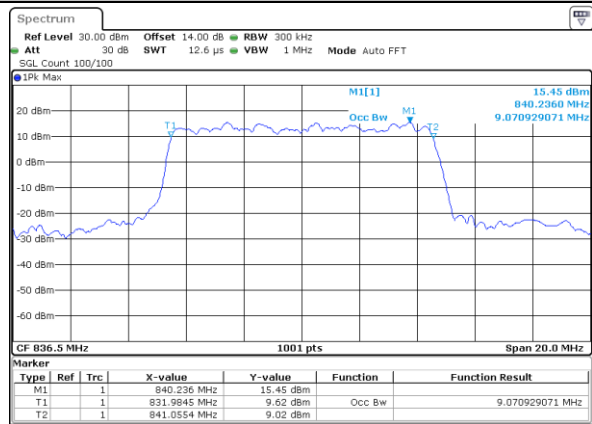
Date: 15.MAR.2020 11:26:04

Middle Channel / 10MHz / QPSK



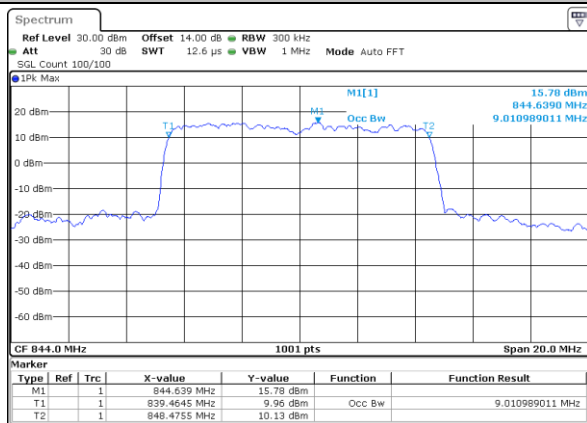
Date: 15.MAR.2020 13:37:23

Middle Channel / 10MHz / 16QAM



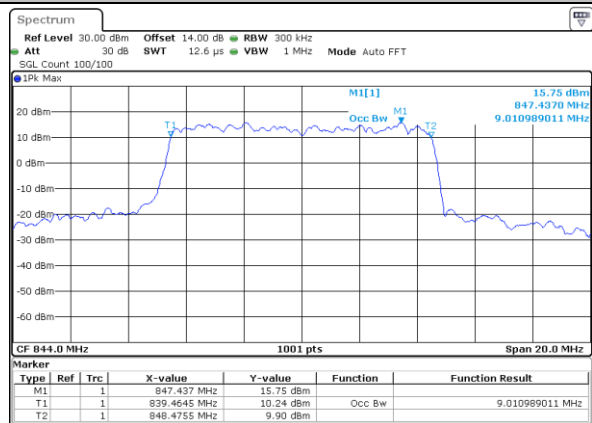
Date: 15.MAR.2020 11:30:23

Highest Channel / 10MHz / QPSK

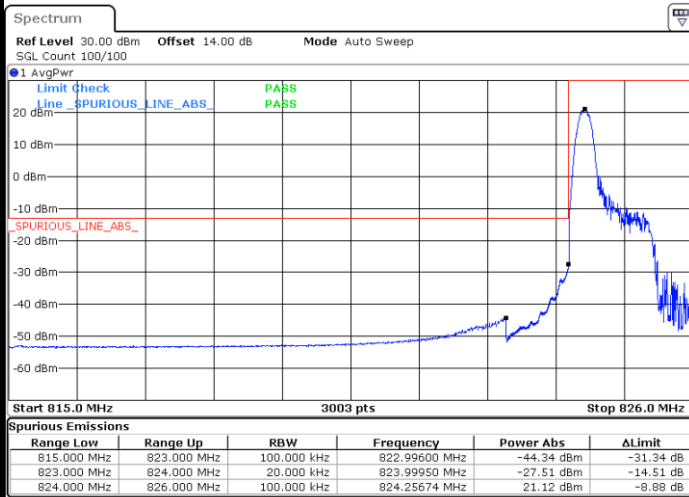
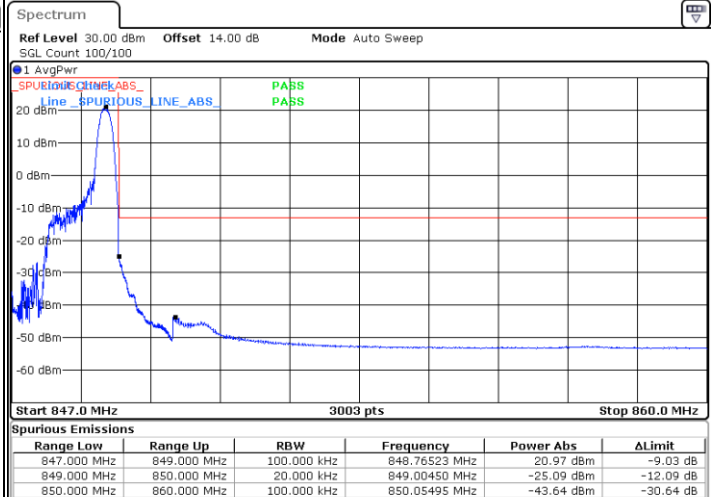
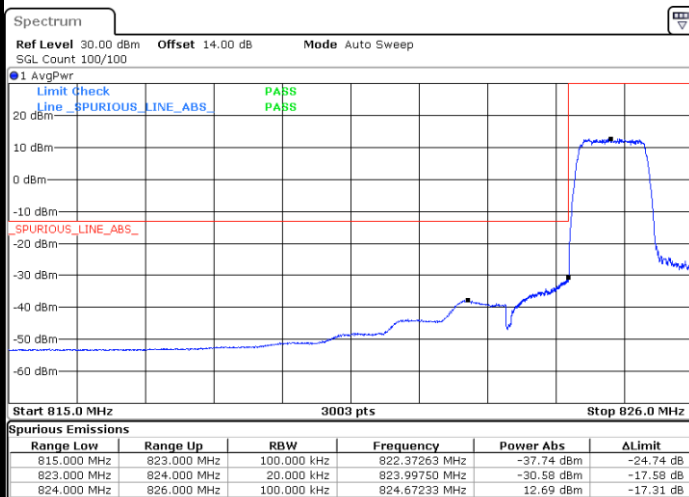
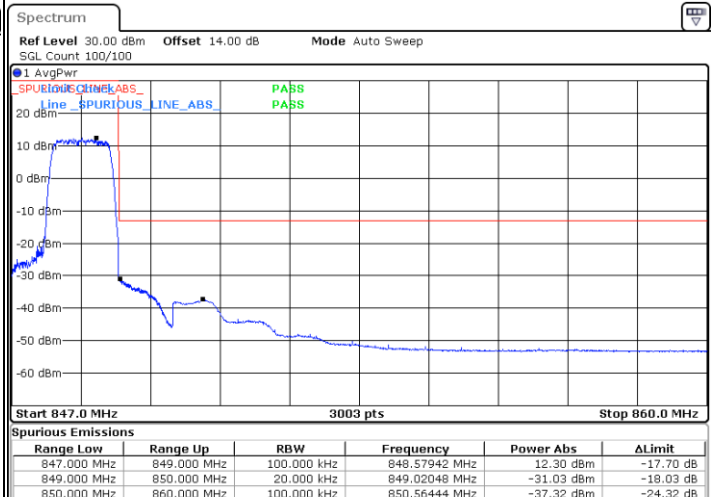


Date: 15.MAR.2020 13:38:23

Highest Channel / 10MHz / 16QAM



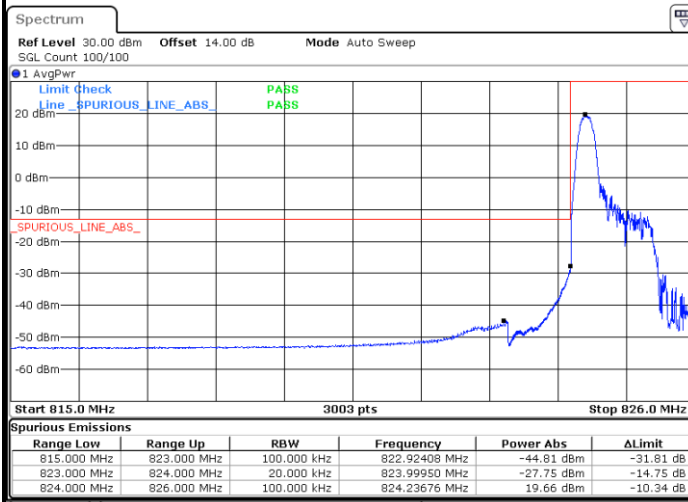
Date: 15.MAR.2020 11:31:23

**Conducted Band Edge****LTE Band 5 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

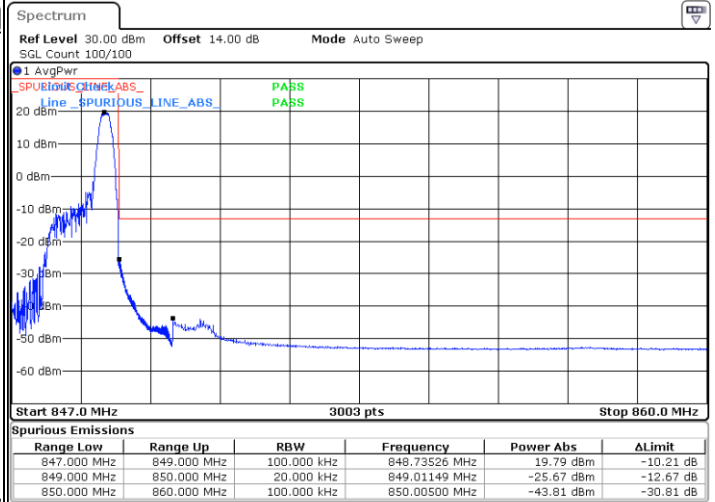


LTE Band 5 / 1.4MHz / 16QAM

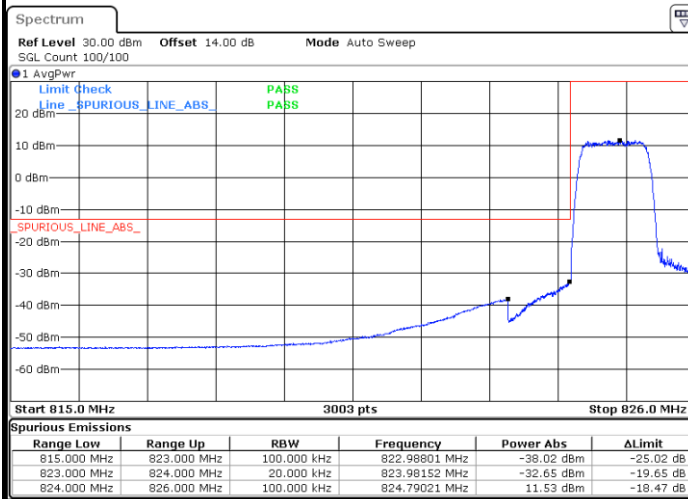
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



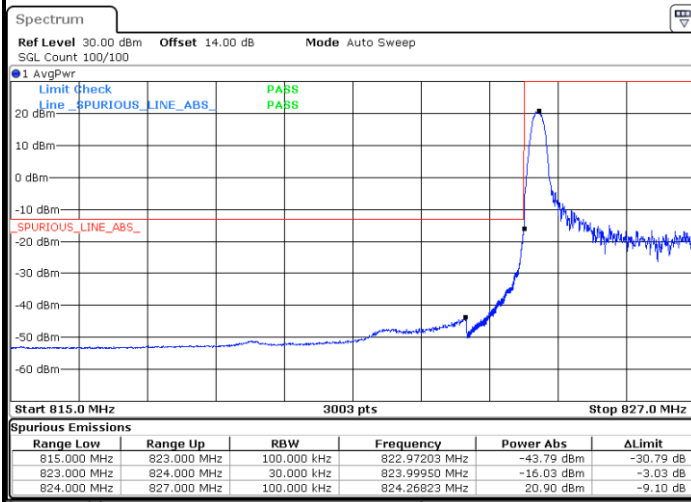
Highest Band Edge / Full RB



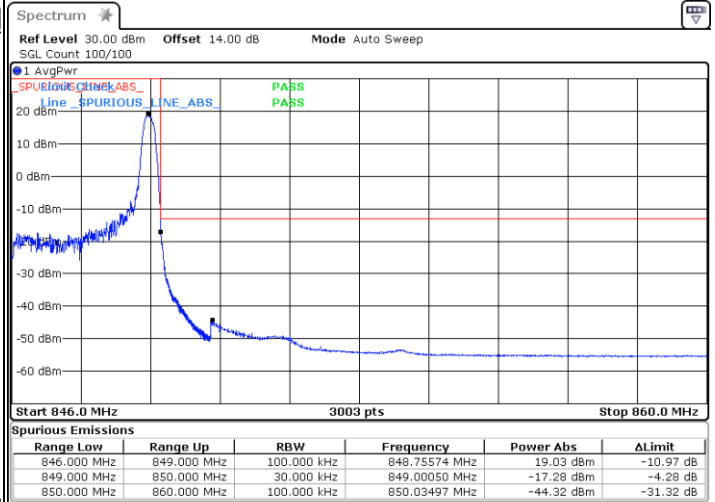


LTE Band 5 / 3MHz / QPSK

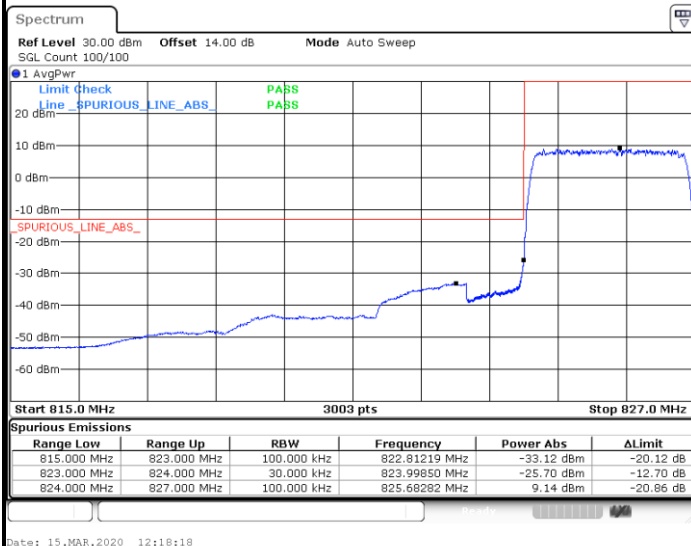
Lowest Band Edge / 1RB



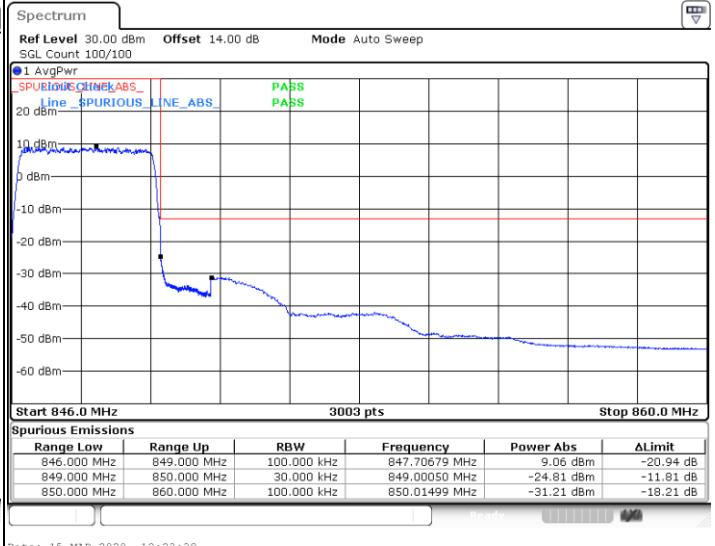
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



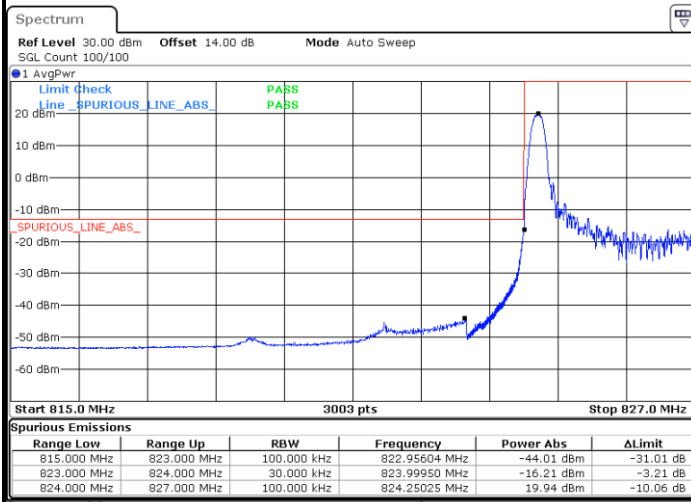
Highest Band Edge / Full RB



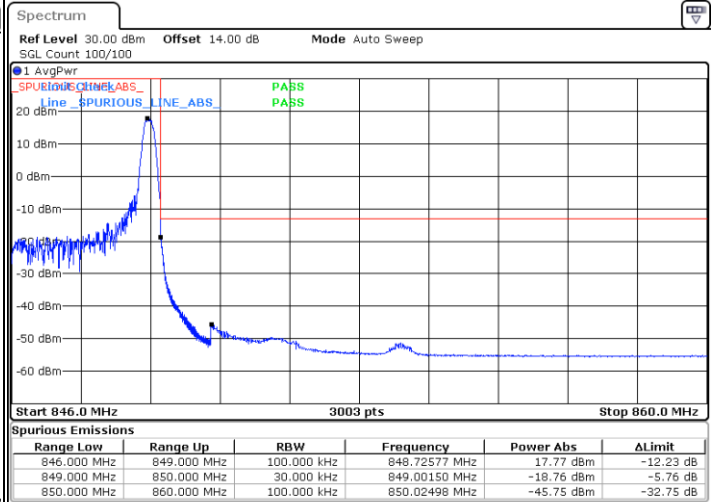


LTE Band 5 / 3MHz / 16QAM

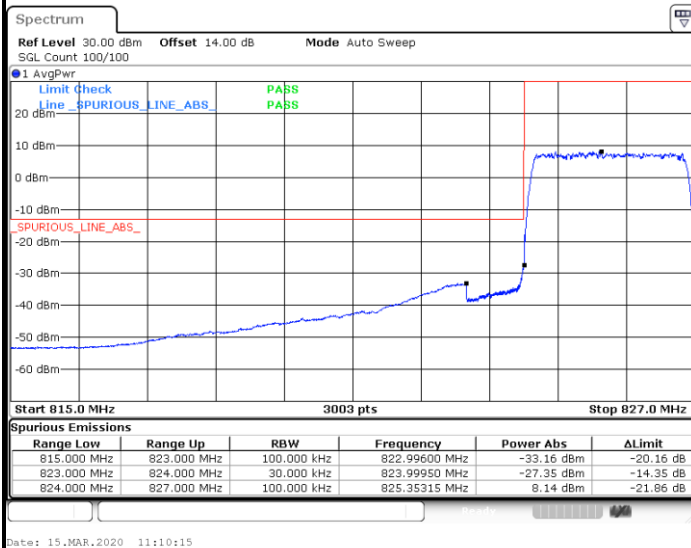
Lowest Band Edge / 1 RB



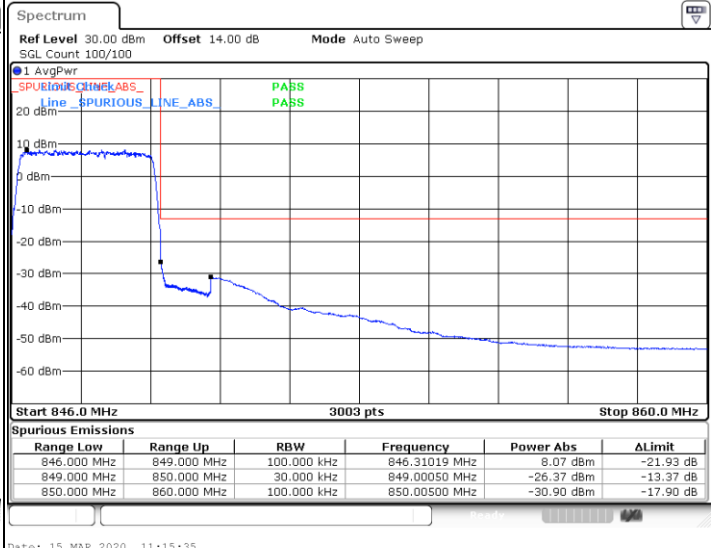
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



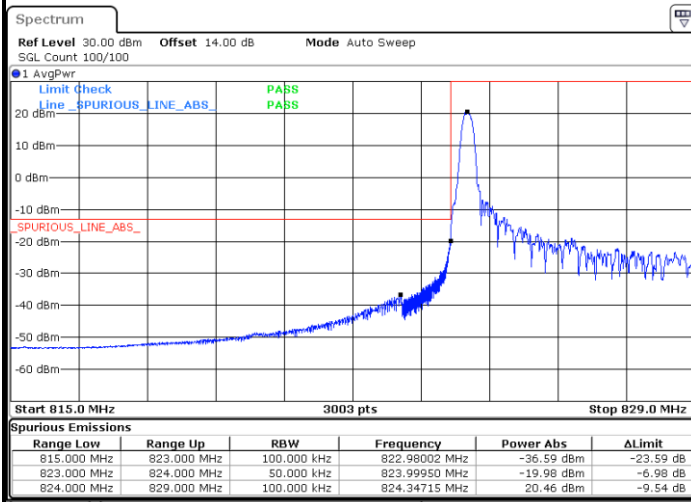
Highest Band Edge / Full RB



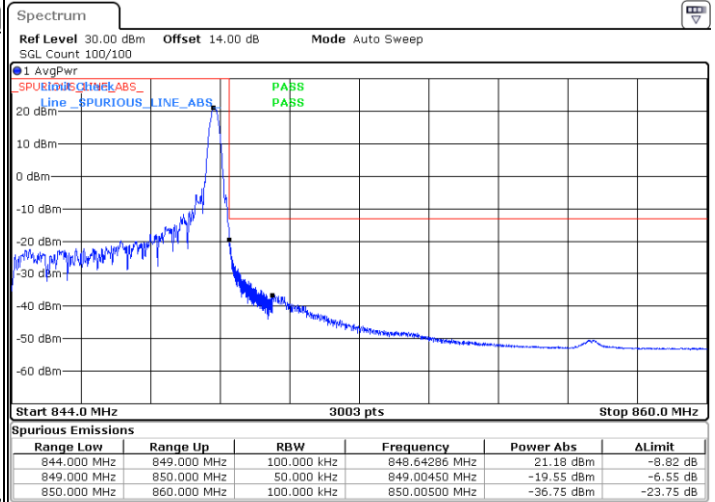


LTE Band 5 / 5MHz / QPSK

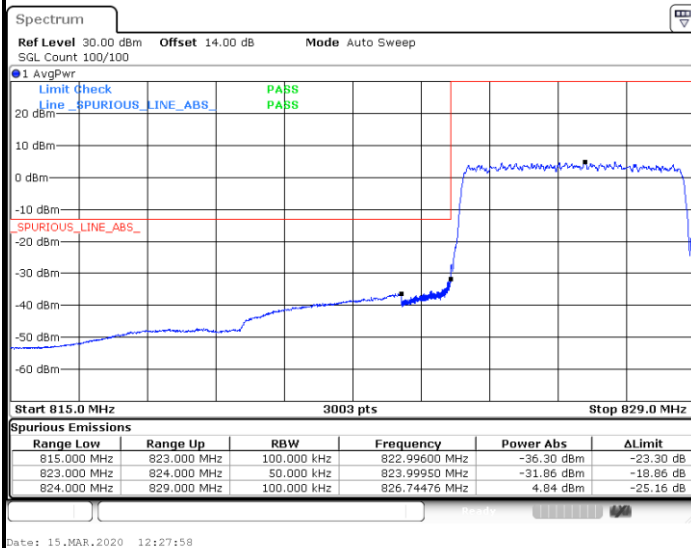
Lowest Band Edge / 1 RB



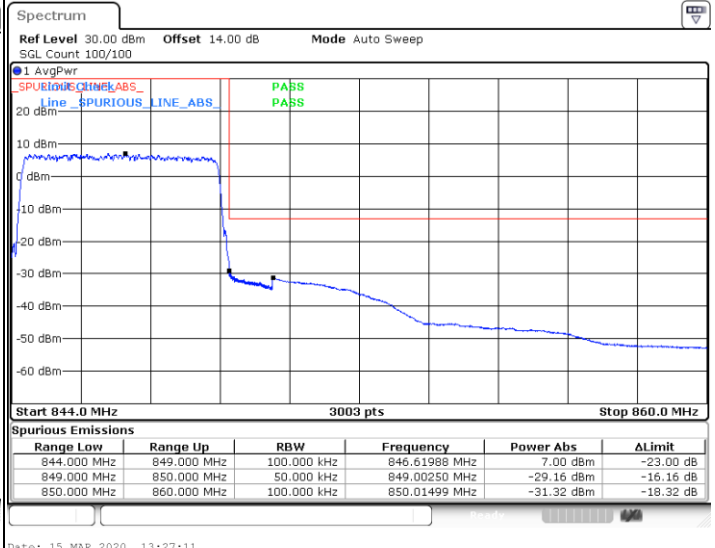
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



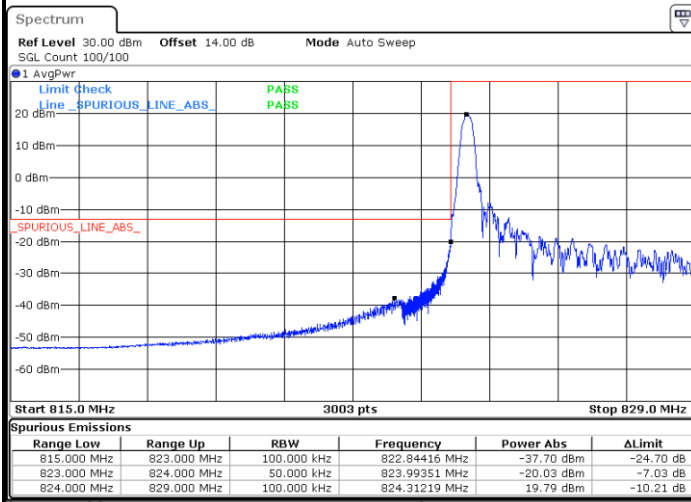
Highest Band Edge / Full RB



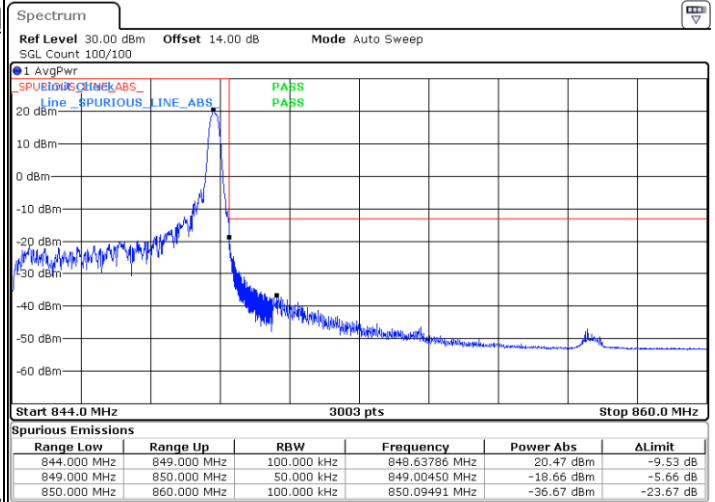


LTE Band 5 / 5MHz / 16QAM

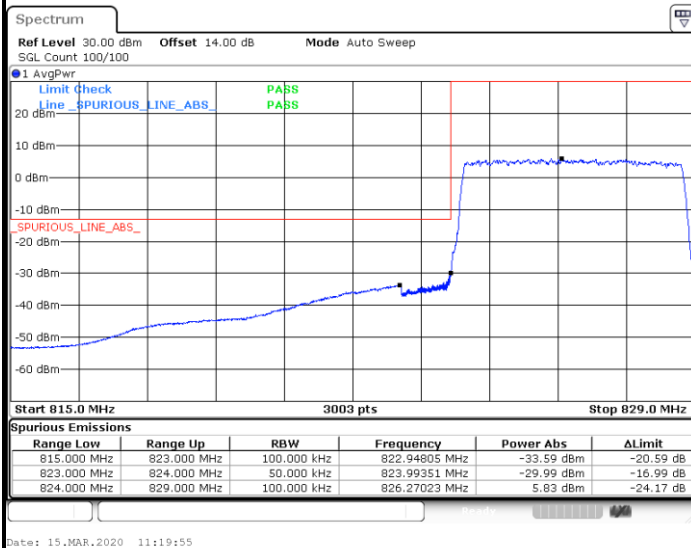
Lowest Band Edge / 1RB



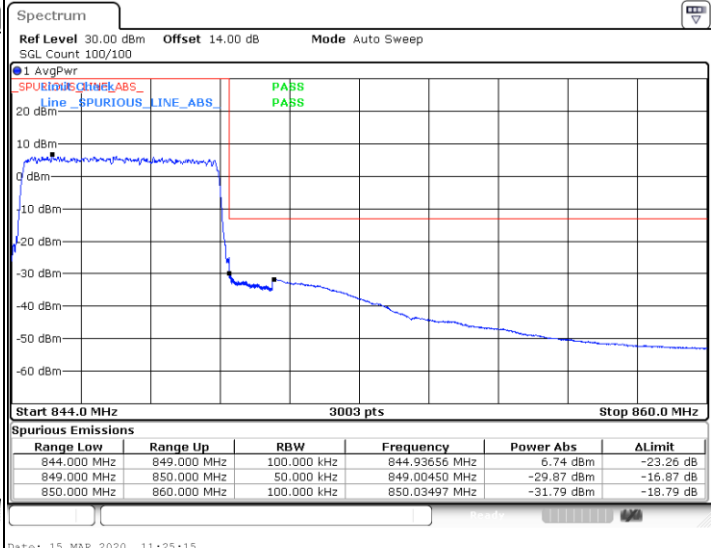
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



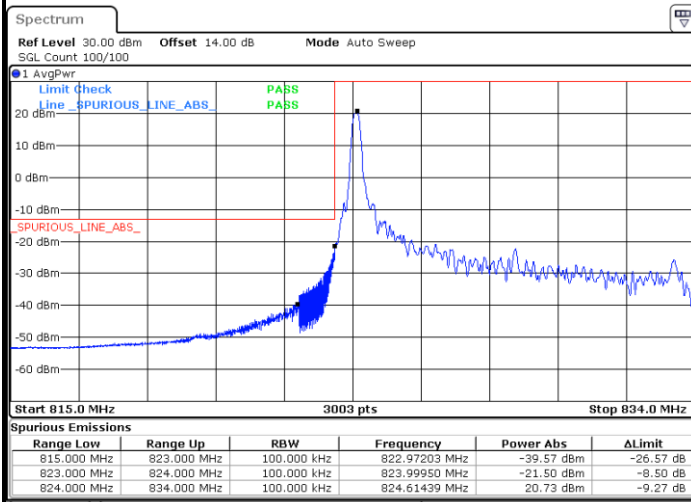
Highest Band Edge / Full RB



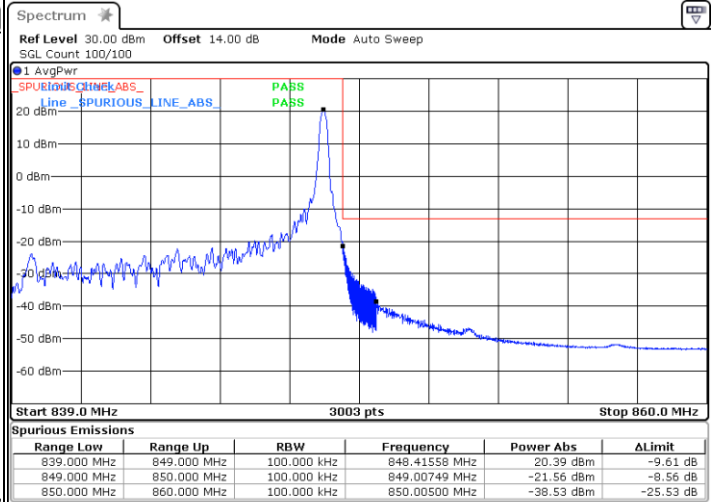


LTE Band 5 / 10MHz / QPSK

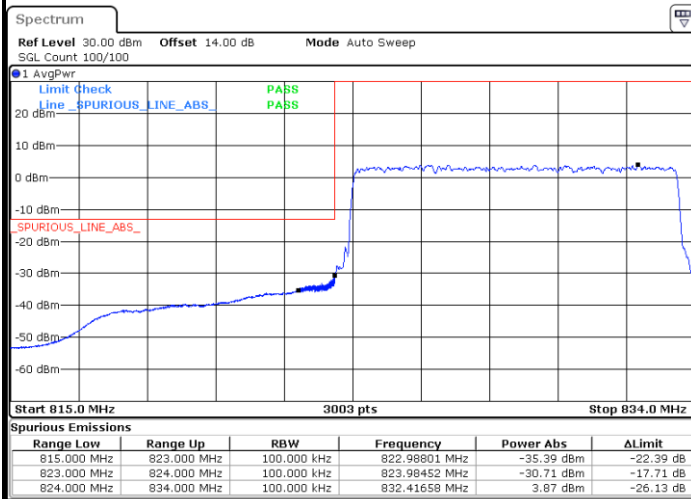
Lowest Band Edge / 1 RB



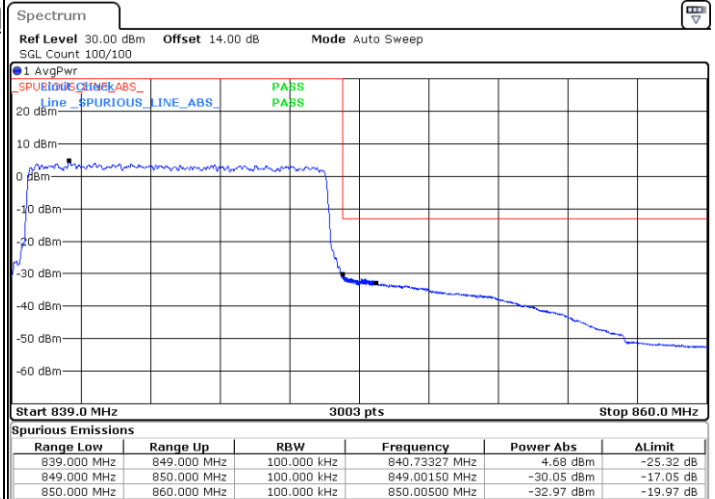
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



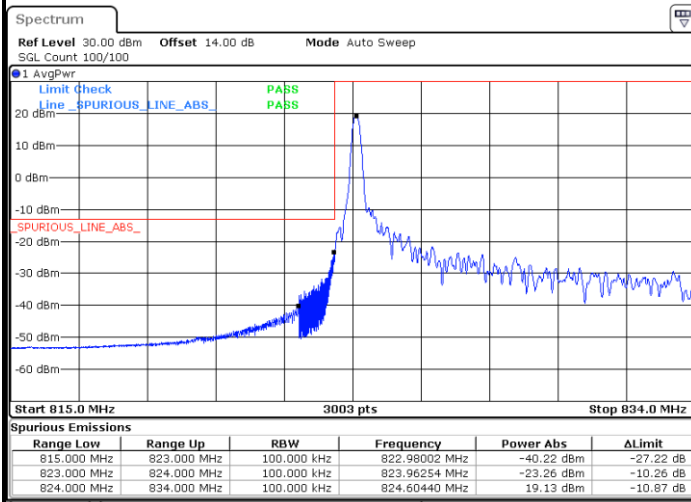
Highest Band Edge / Full RB



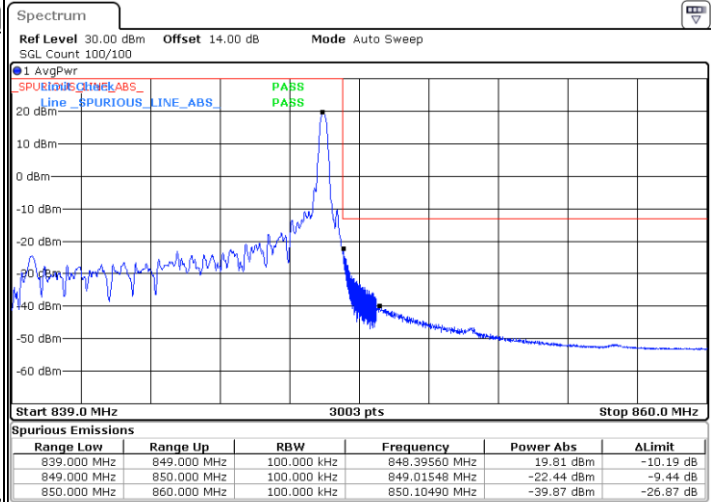


LTE Band 5 / 10MHz / 16QAM

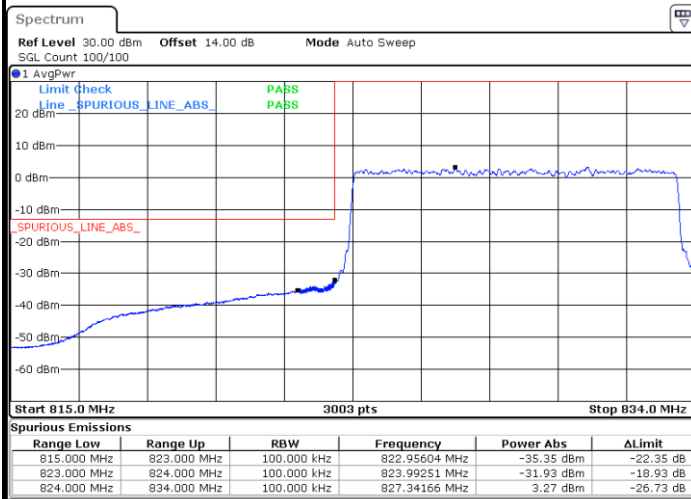
Lowest Band Edge / 1 RB



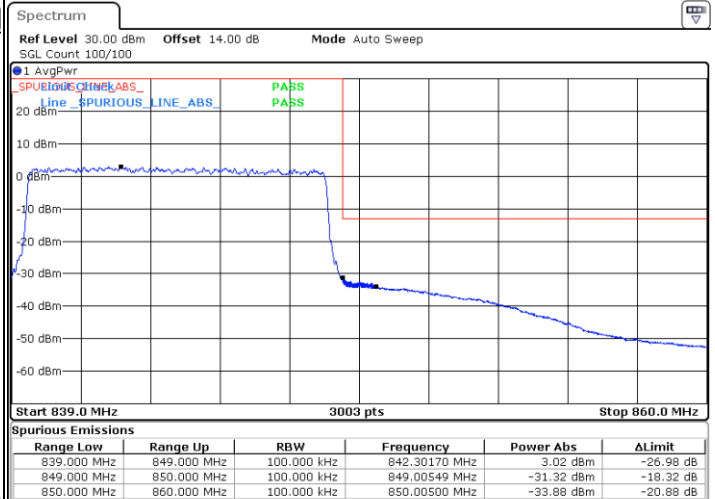
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

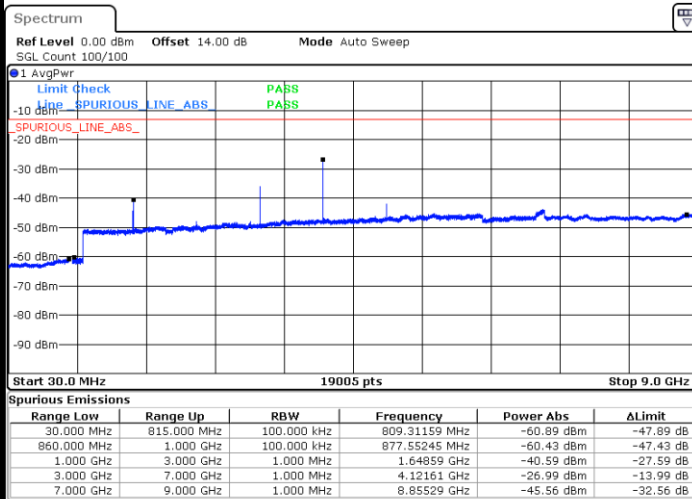




Conducted Spurious Emission

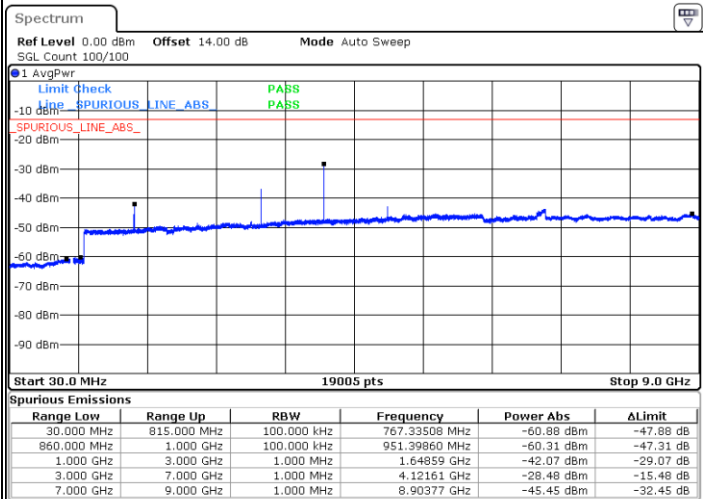
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



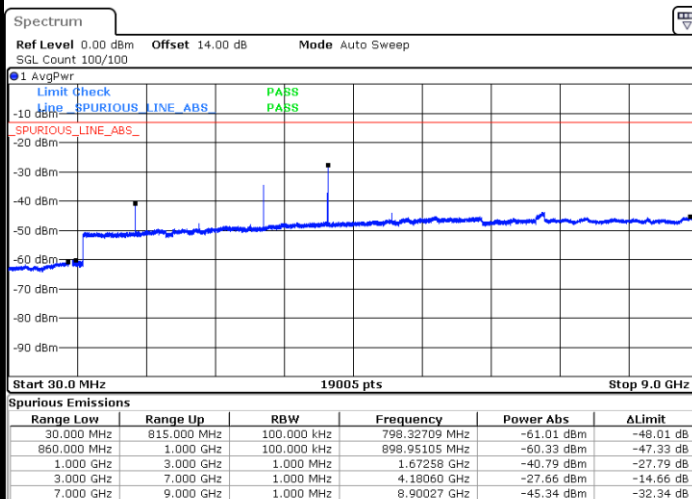
Date: 15.MAR.2020 13:54:34

Lowest Channel / 16QAM



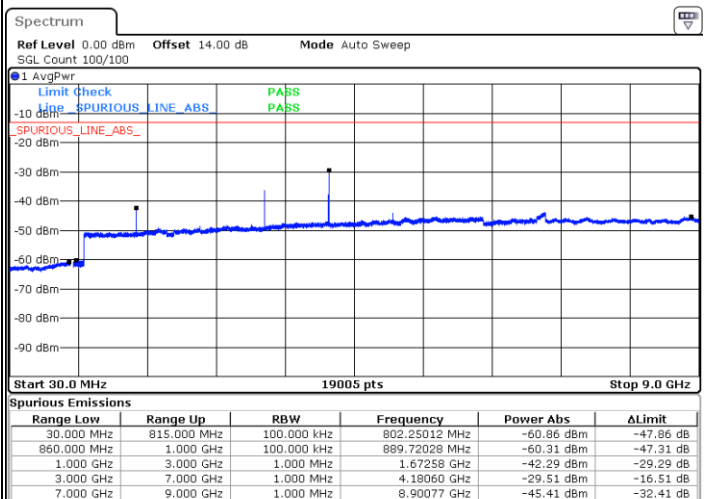
Date: 15.MAR.2020 11:38:12

Middle Channel / QPSK



Date: 15.MAR.2020 13:55:34

Middle Channel / 16QAM

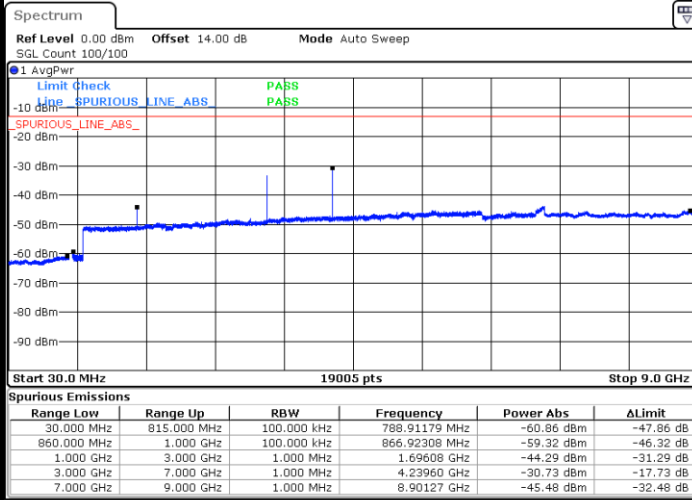


Date: 15.MAR.2020 11:39:11



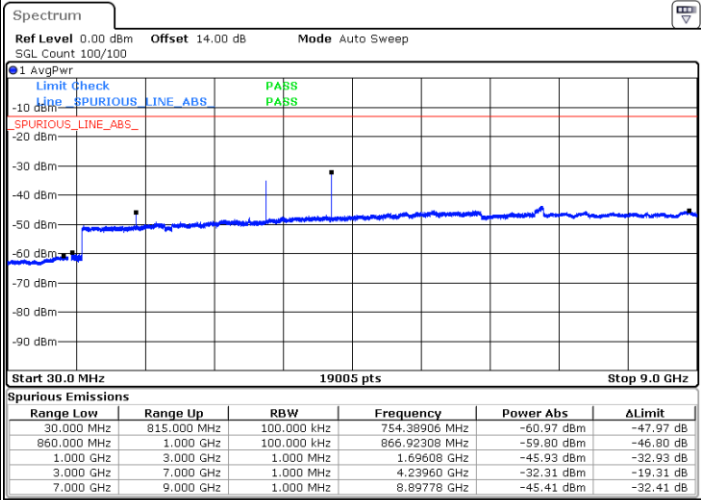
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 15.MAR.2020 13:59:54

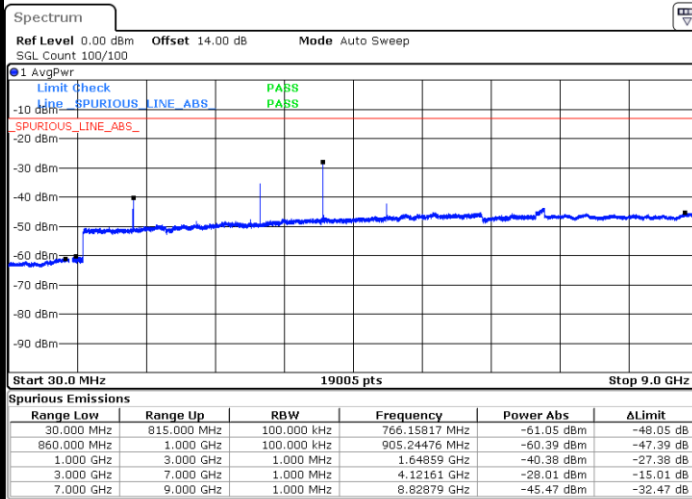
Highest Channel / 16QAM



Date: 15.MAR.2020 11:43:31

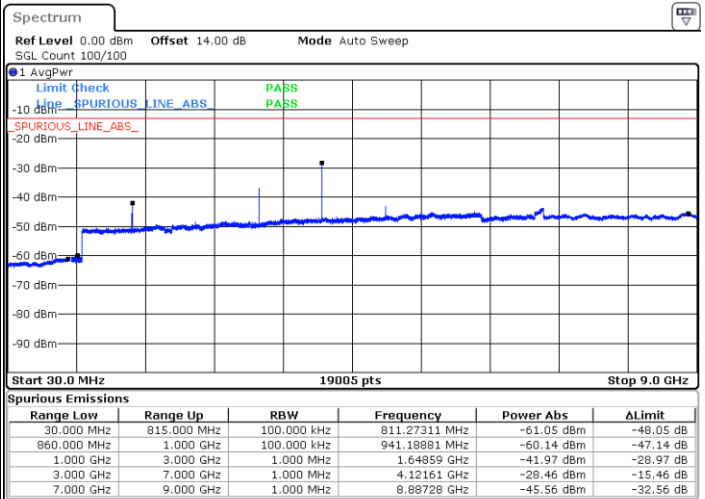
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 15.MAR.2020 12:18:56

Lowest Channel / 16QAM

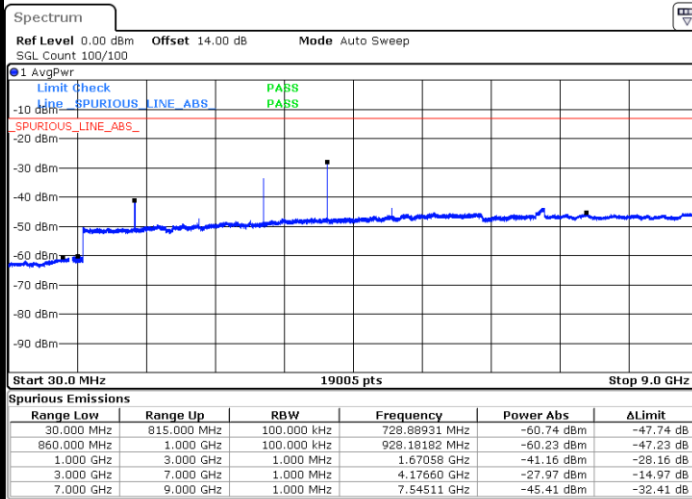


Date: 15.MAR.2020 11:10:53



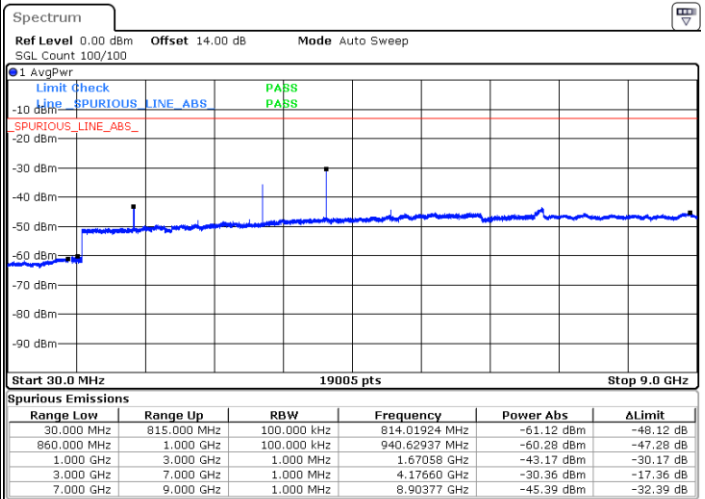
LTE Band 5 / 3MHz

Middle Channel / QPSK



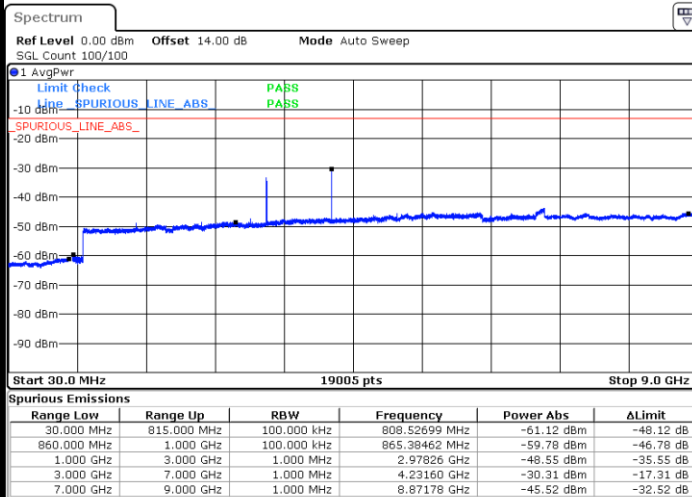
Date: 15.MAR.2020 12:19:56

Middle Channel / 16QAM



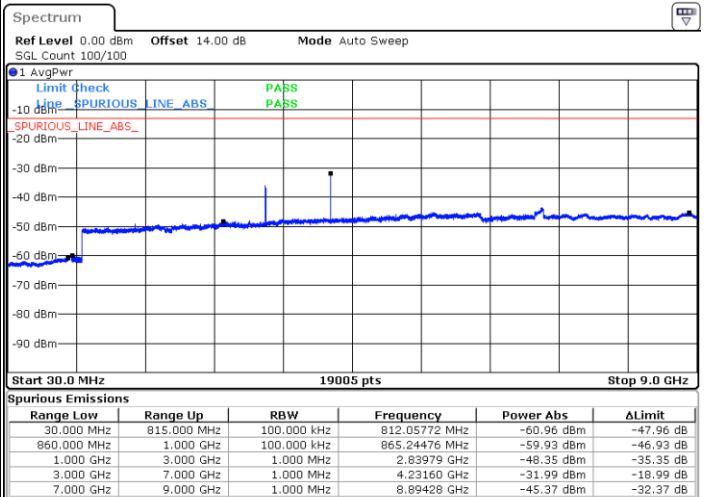
Date: 15.MAR.2020 11:11:53

Highest Channel / QPSK



Date: 15.MAR.2020 12:24:16

Highest Channel / 16QAM

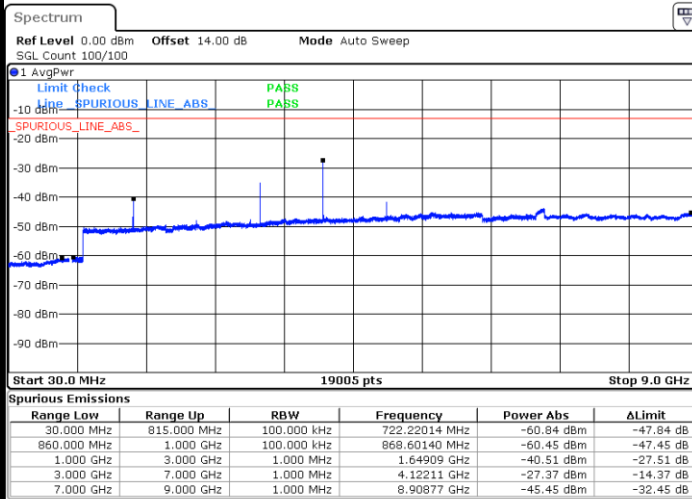


Date: 15.MAR.2020 11:16:13



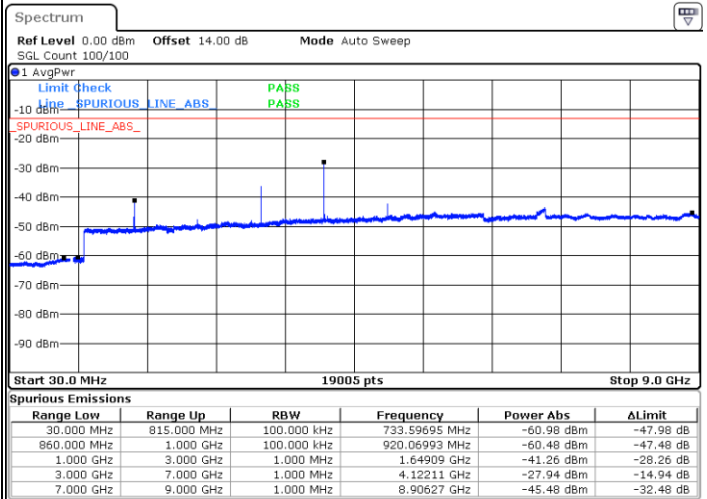
LTE Band 5 / 5MHz

Lowest Channel / QPSK



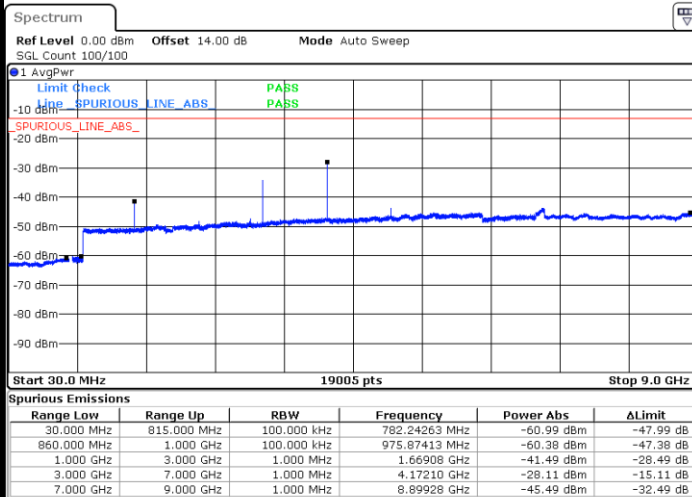
Date: 15.MAR.2020 12:28:35

Lowest Channel / 16QAM



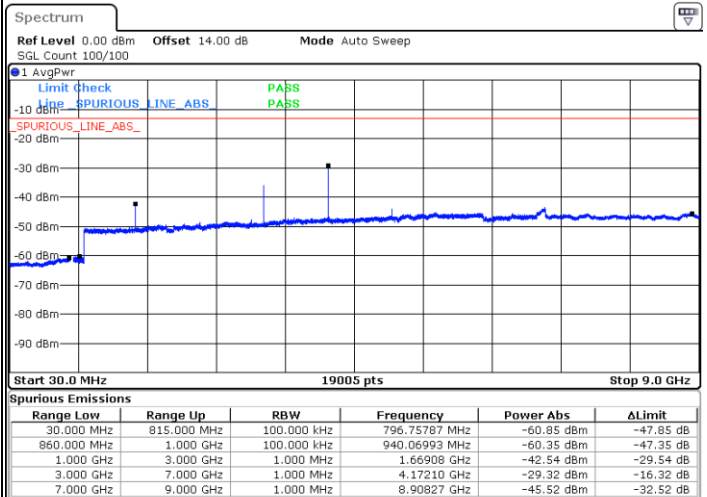
Date: 15.MAR.2020 11:20:33

Middle Channel / QPSK



Date: 15.MAR.2020 12:29:35

Middle Channel / 16QAM



Date: 15.MAR.2020 11:21:33