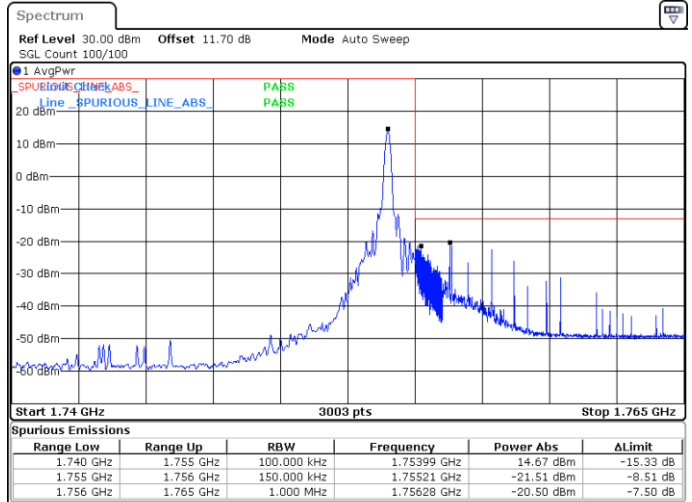
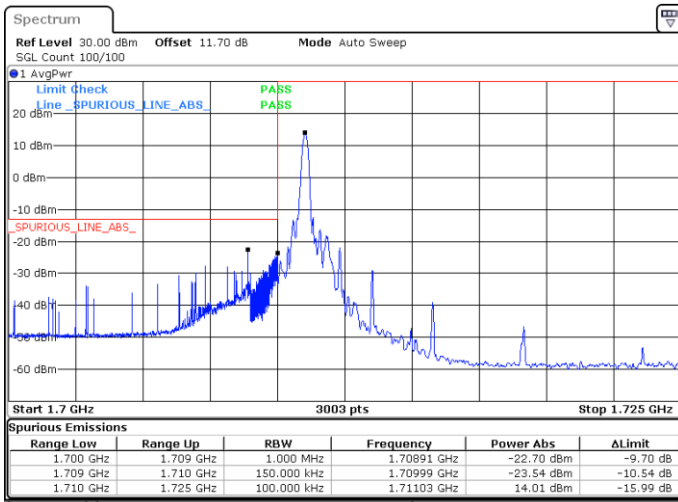




LTE Band 4 / 15MHz / 16QAM

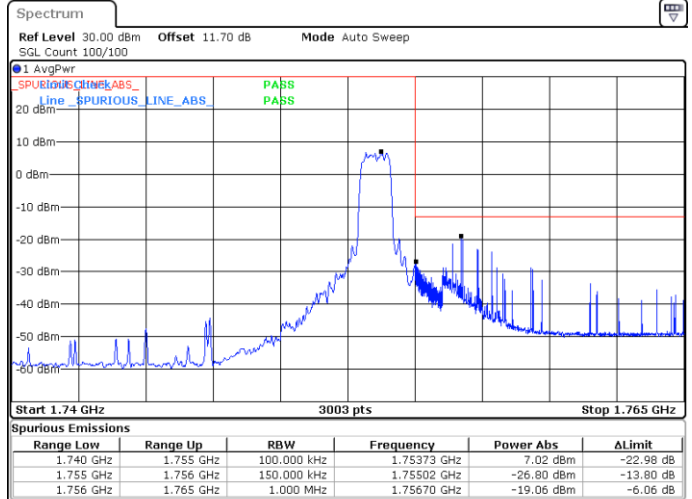
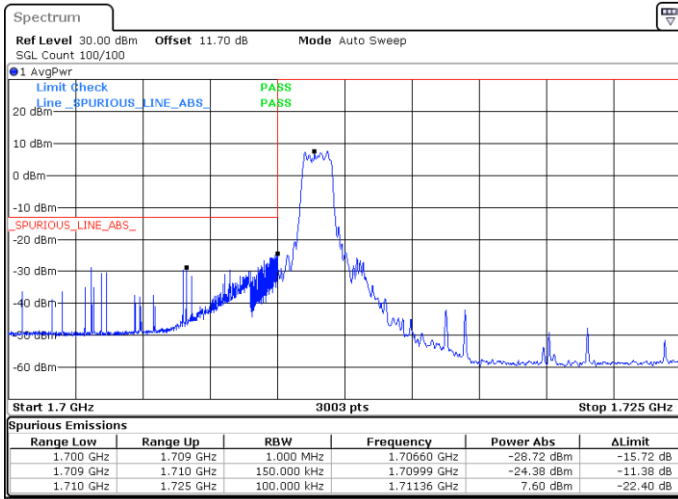
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

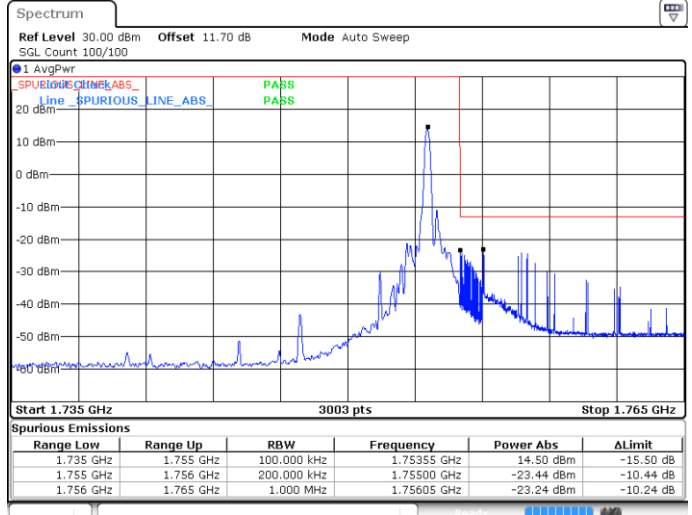
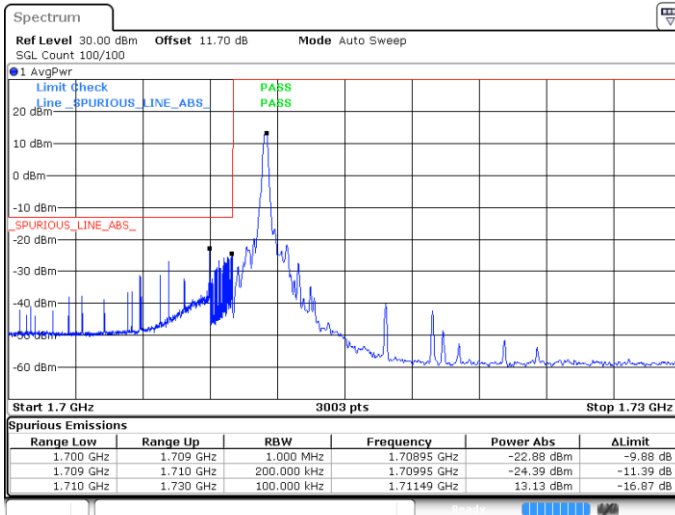




LTE Band 4 / 20MHz / QPSK

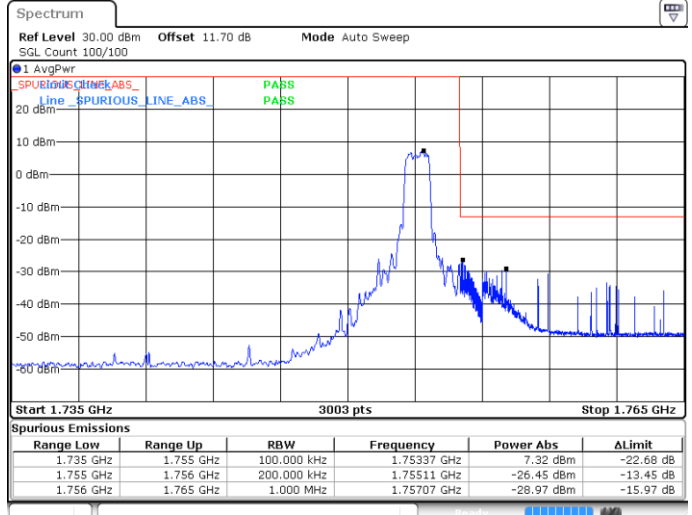
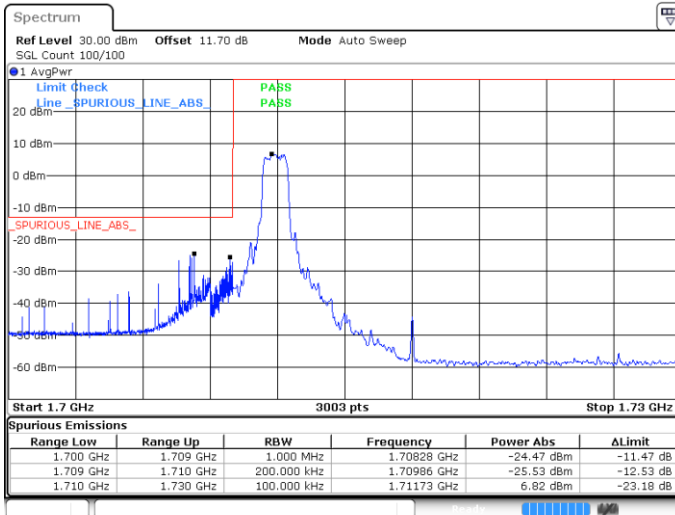
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

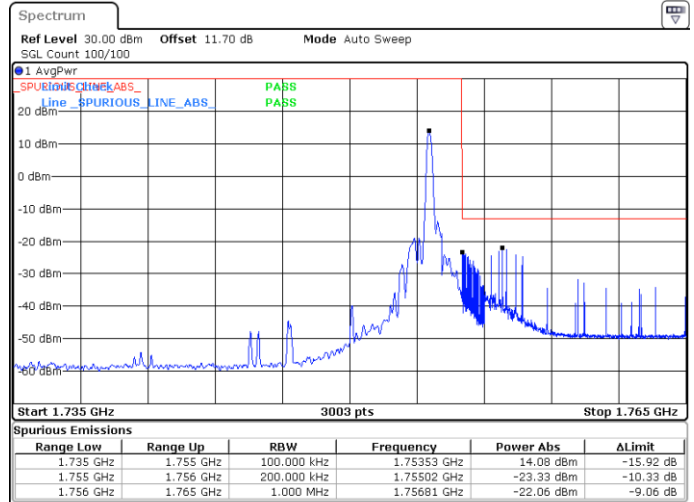
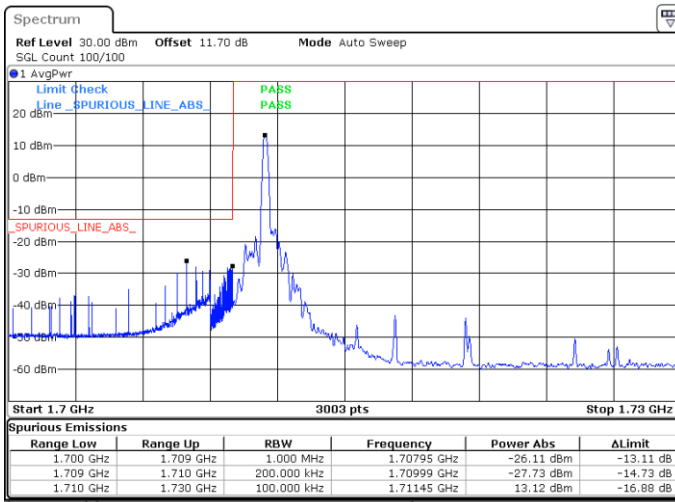




LTE Band 4 / 20MHz / 16QAM

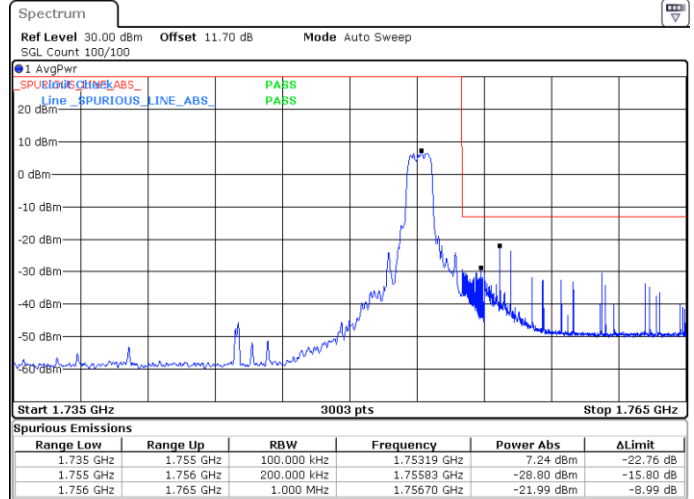
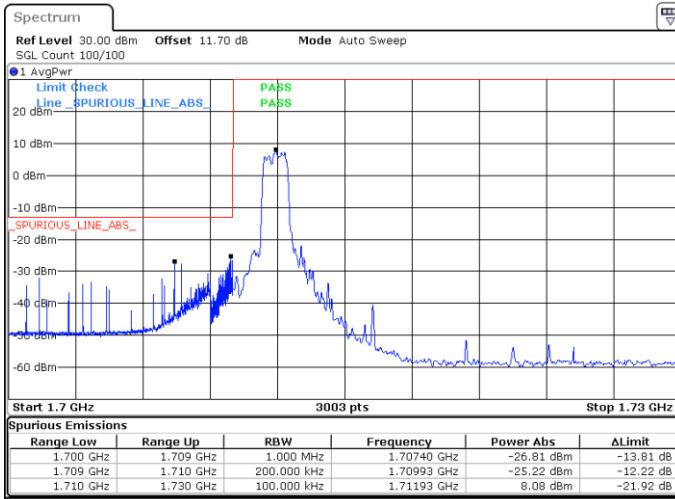
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

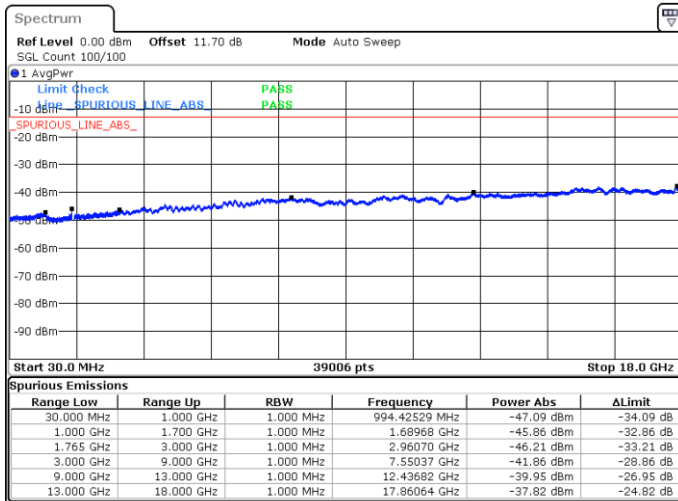




Conducted Spurious Emission

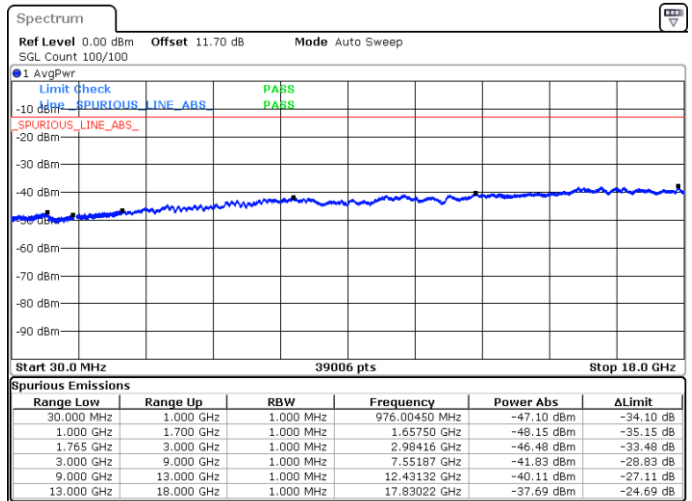
LTE Band 4 / 1.4MHz

Lowest Channel / QPSK



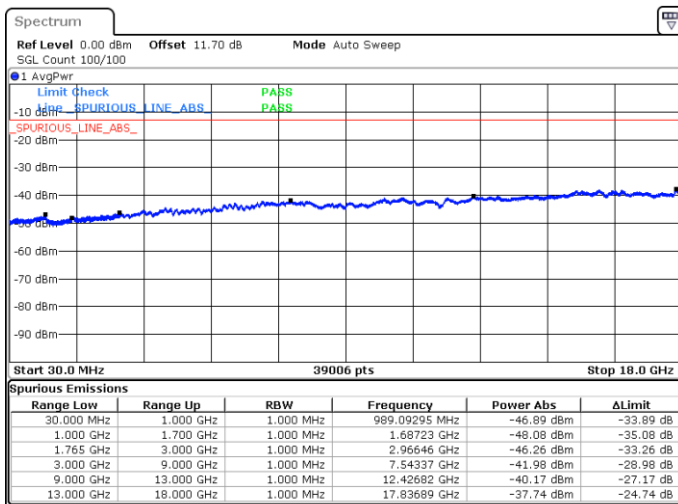
Date: 24 FEB 2020 16:17:43

Lowest Channel / 16QAM



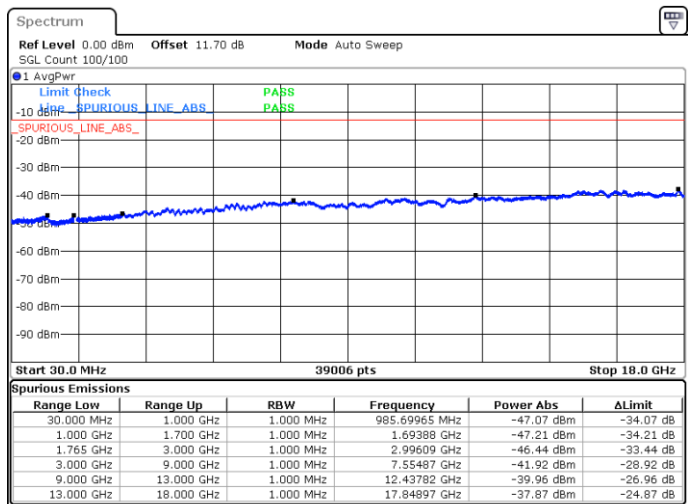
Date: 24 FEB 2020 16:18:30

Middle Channel / QPSK



Date: 24 FEB 2020 16:05:11

Middle Channel / 16QAM

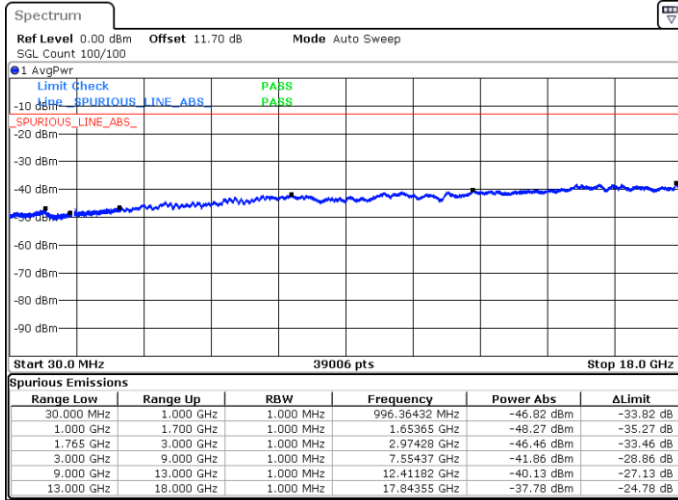


Date: 24 FEB 2020 16:05:58



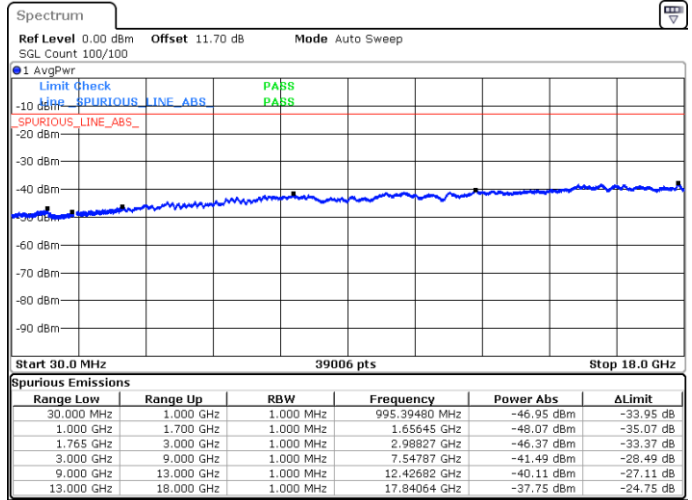
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 24 FEB 2020 16:32:22

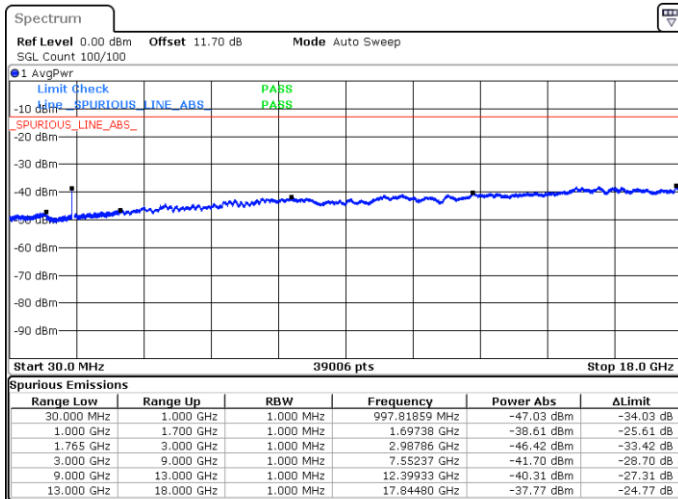
Highest Channel / 16QAM



Date: 24 FEB 2020 16:33:09

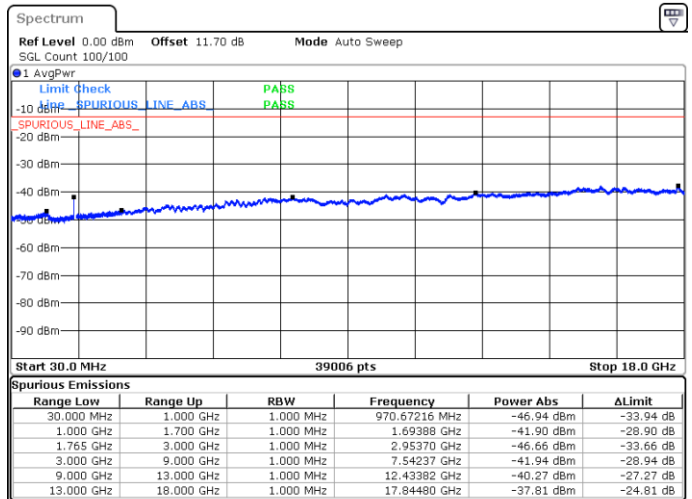
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 24 FEB 2020 10:47:50

Lowest Channel / 16QAM



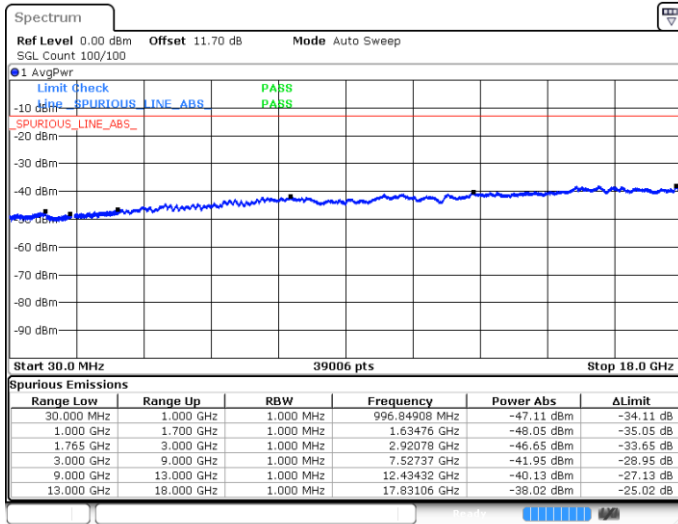
Date: 24 FEB 2020 10:48:37



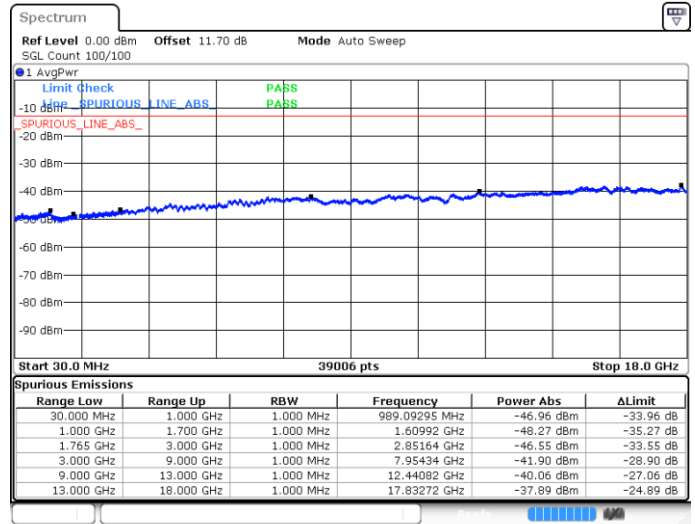
LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



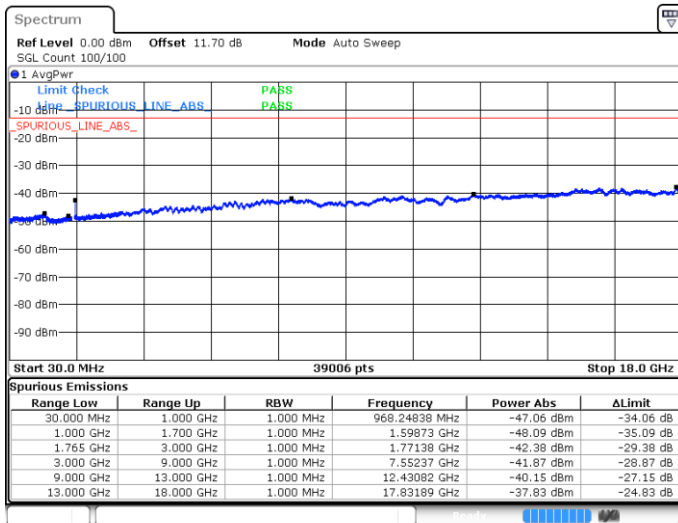
Date: 24 FEB 2020 11:06:39



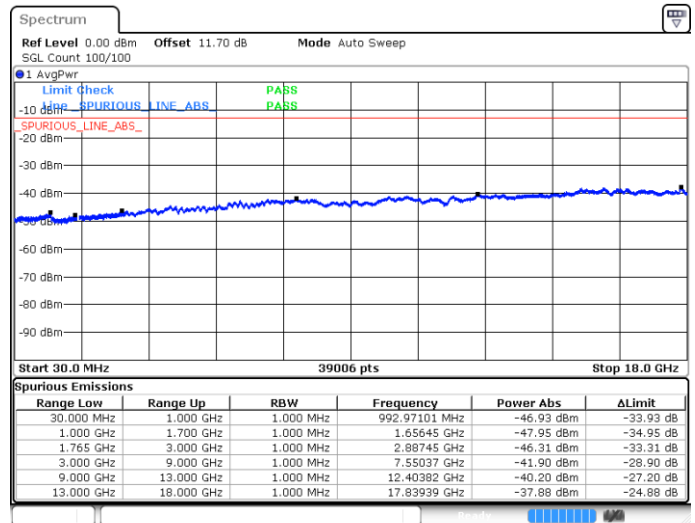
Date: 24 FEB 2020 11:07:26

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24 FEB 2020 11:15:01

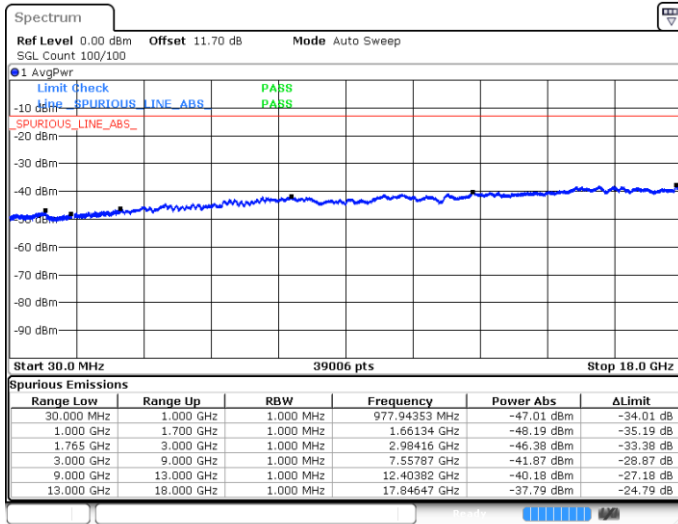


Date: 24 FEB 2020 11:15:48



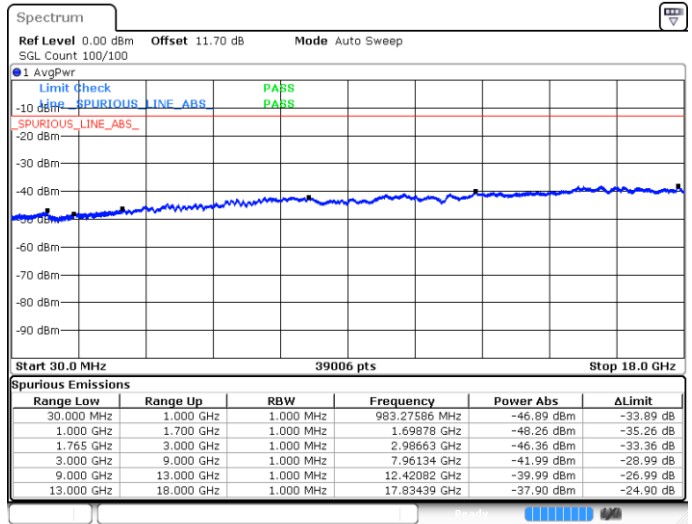
LTE Band 4 / 5MHz

Lowest Channel / QPSK



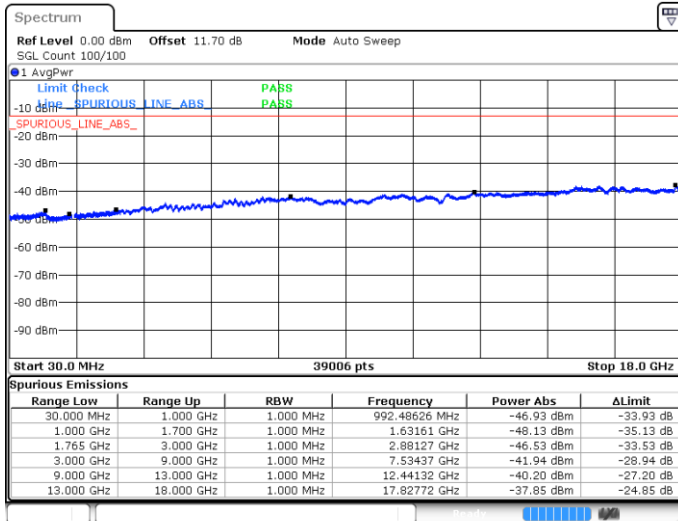
Date: 24 FEB 2020 11:36:49

Lowest Channel / 16QAM



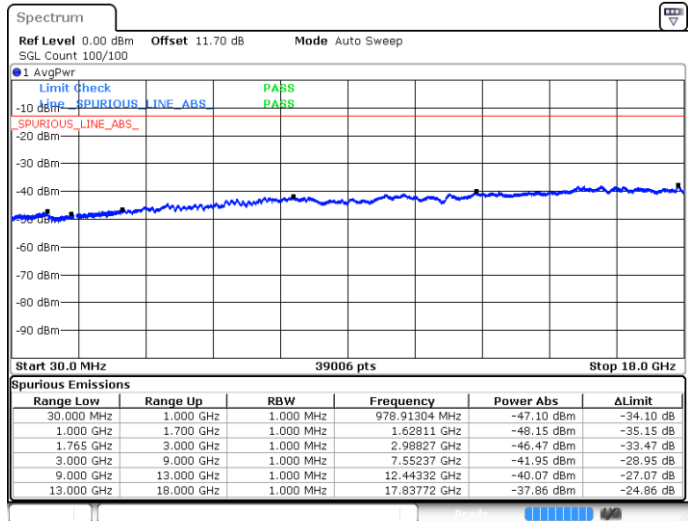
Date: 24 FEB 2020 11:37:35

Middle Channel / QPSK



Date: 24 FEB 2020 11:22:18

Middle Channel / 16QAM

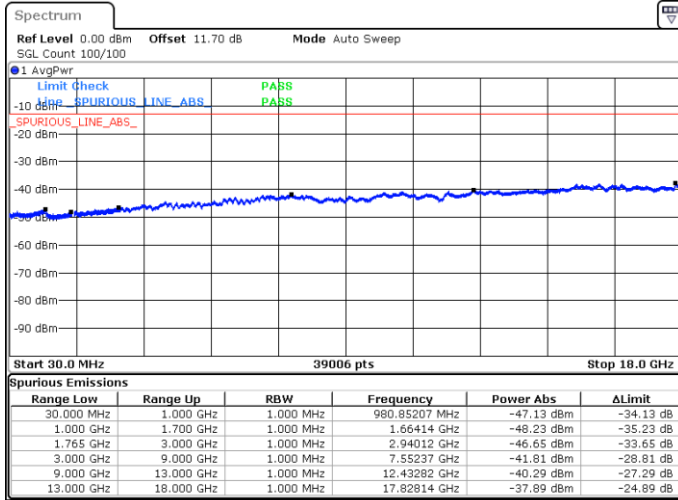


Date: 24 FEB 2020 11:23:05



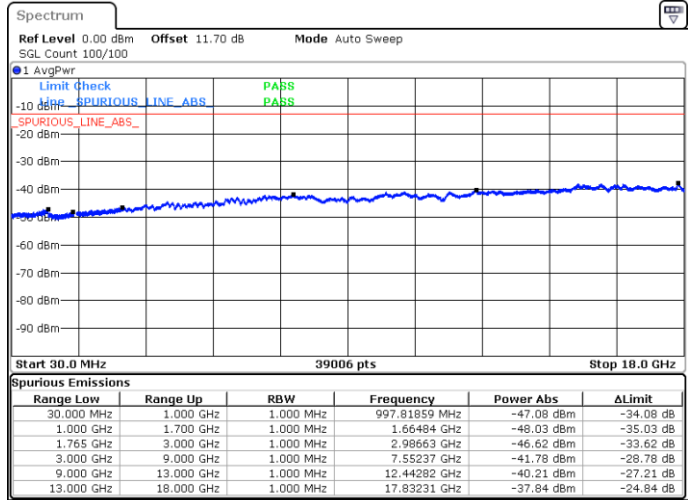
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 24 FEB 2020 11:44:25

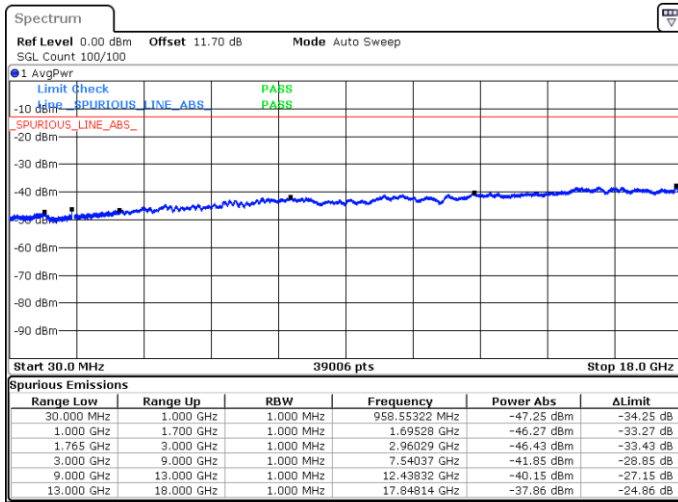
Highest Channel / 16QAM



Date: 24 FEB 2020 11:45:12

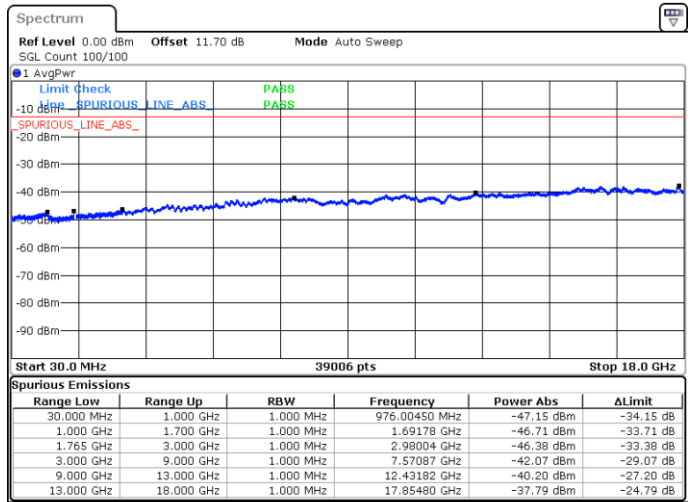
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 24 FEB 2020 12:03:12

Lowest Channel / 16QAM



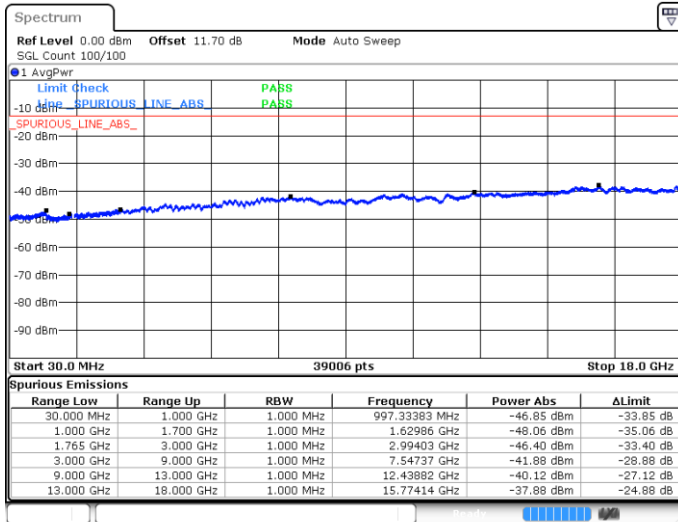
Date: 24 FEB 2020 12:03:59



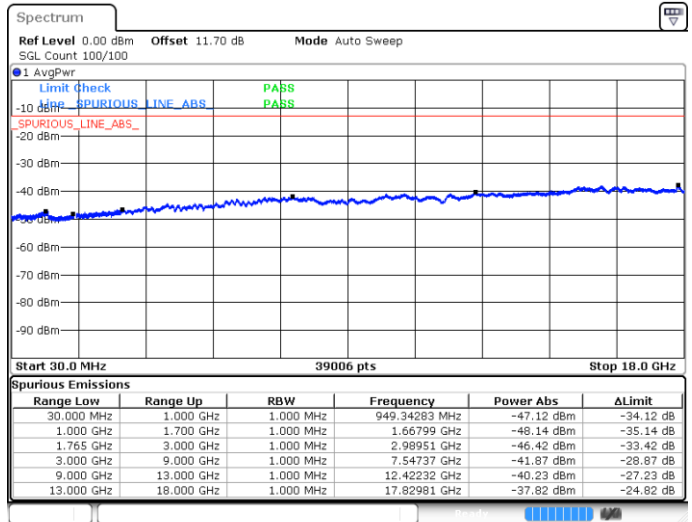
LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



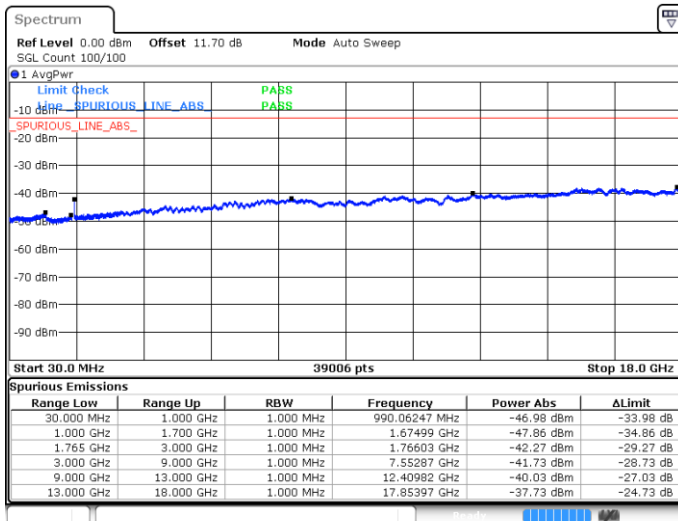
Date: 24 FEB 2020 11:54:41



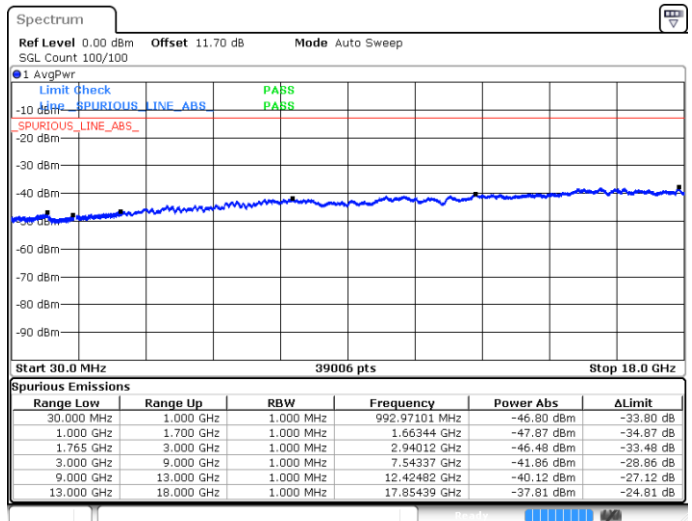
Date: 24 FEB 2020 11:55:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24 FEB 2020 13:55:08

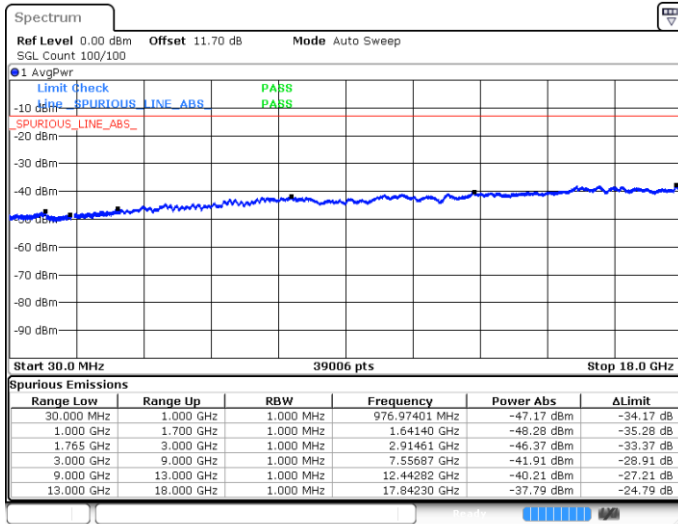


Date: 24 FEB 2020 13:55:55



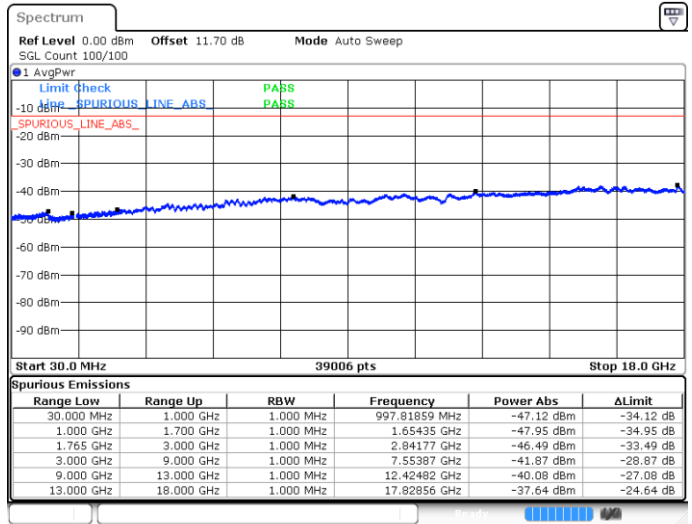
LTE Band 4 / 15MHz

Lowest Channel / QPSK



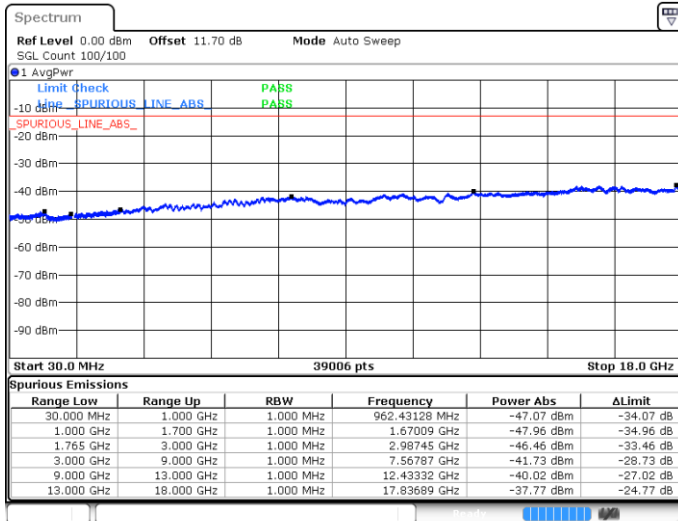
Date: 24 FEB 2020 14:10:40

Lowest Channel / 16QAM



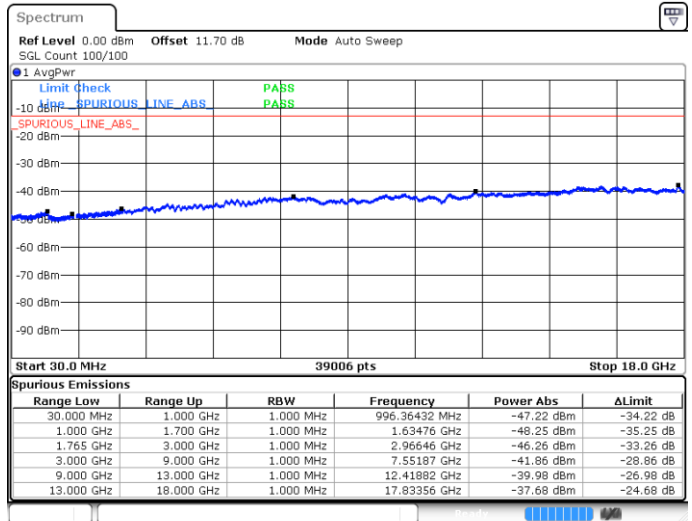
Date: 24 FEB 2020 14:11:27

Middle Channel / QPSK



Date: 24 FEB 2020 14:00:28

Middle Channel / 16QAM

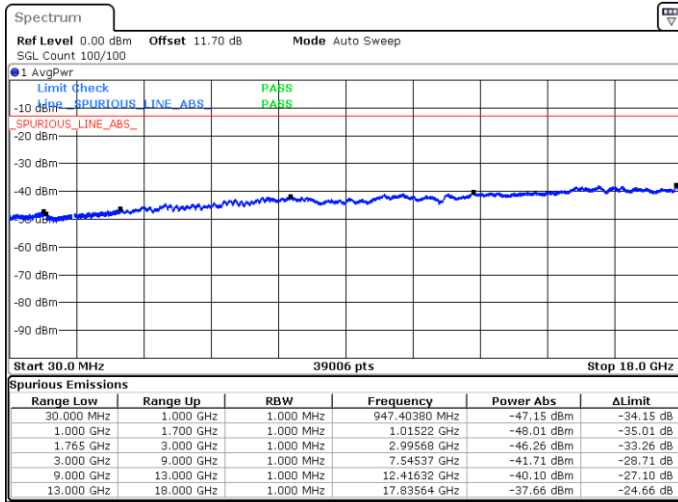


Date: 24 FEB 2020 14:01:15



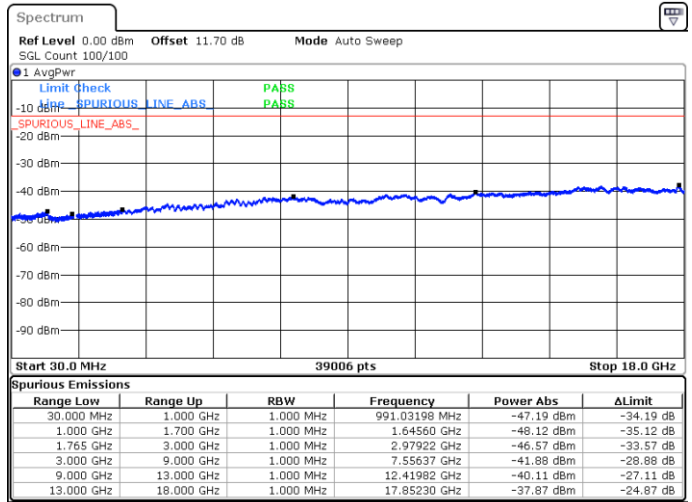
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 24 FEB 2020 14:19:06

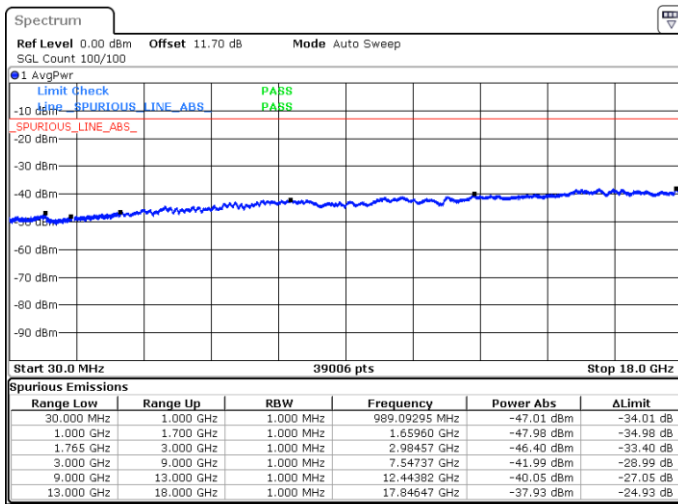
Highest Channel / 16QAM



Date: 24 FEB 2020 14:19:53

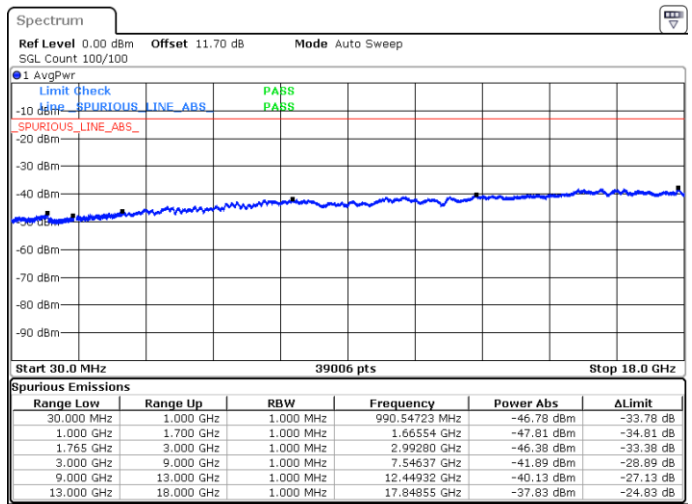
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 24 FEB 2020 14:34:11

Lowest Channel / 16QAM



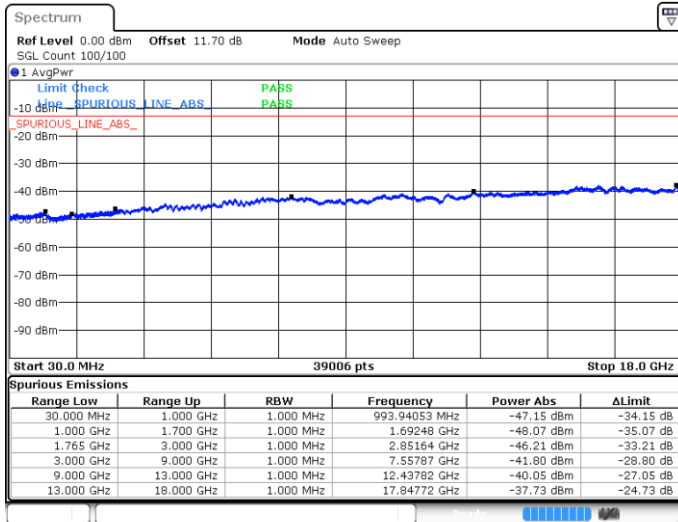
Date: 24 FEB 2020 14:34:58



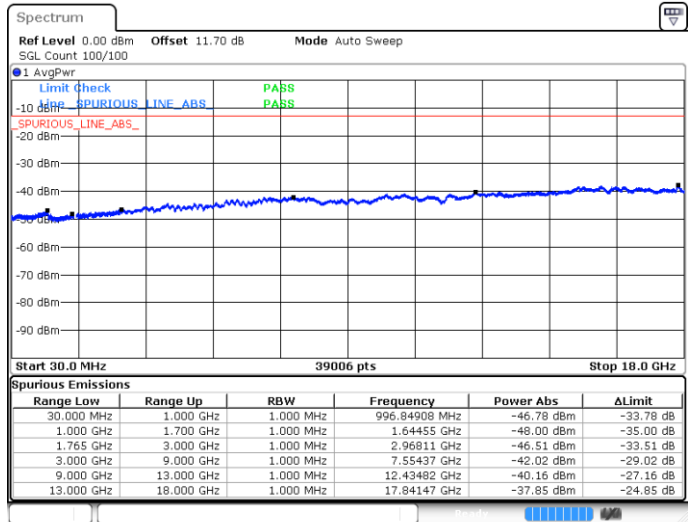
LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



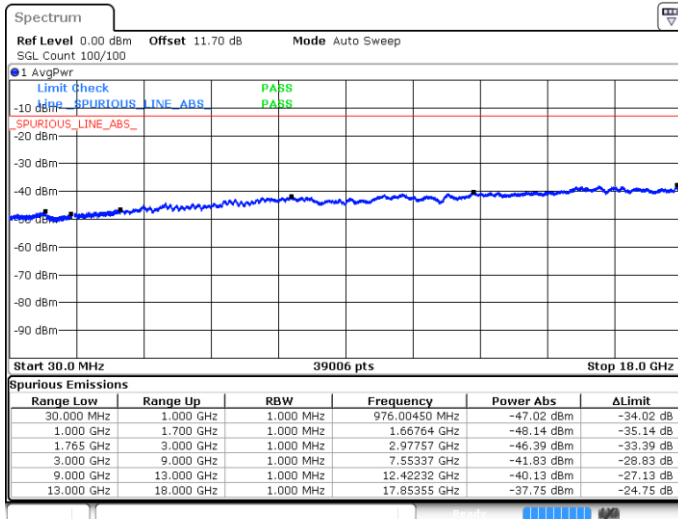
Date: 24 FEB 2020 14:24:24



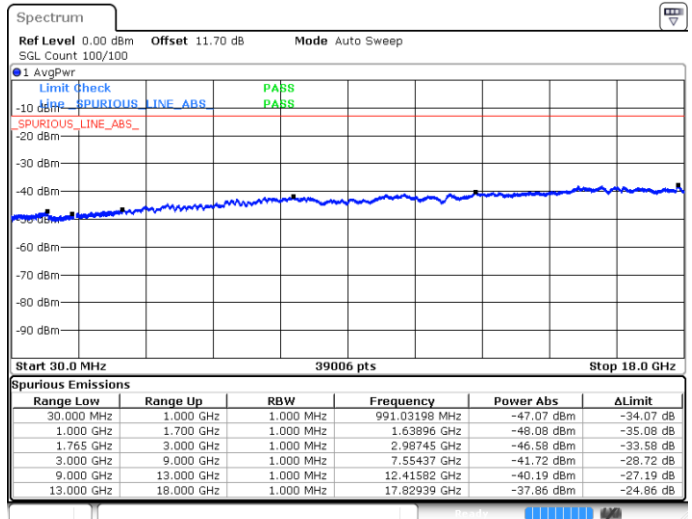
Date: 24 FEB 2020 14:25:11

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24 FEB 2020 14:43:51



Date: 24 FEB 2020 14:44:37

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	0.0063	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0068	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0057	

Note:

1. Normal Voltage =5.00 V. ; Battery End Point (BEP) =4.75 V. ; Maximum Voltage =5.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

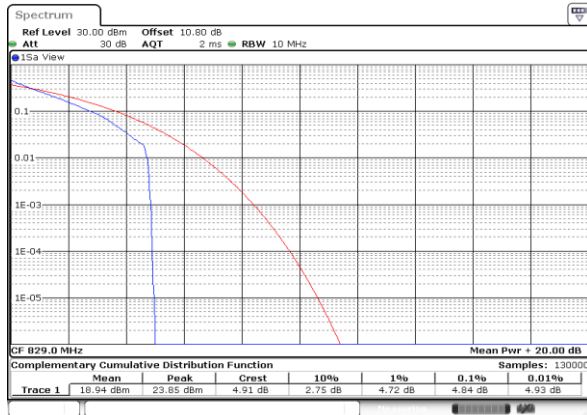
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.84	4.90	5.59	5.77	PASS
Middle CH	4.84	4.93	5.51	6.03	
Highest CH	6.26	5.04	6.09	7.01	

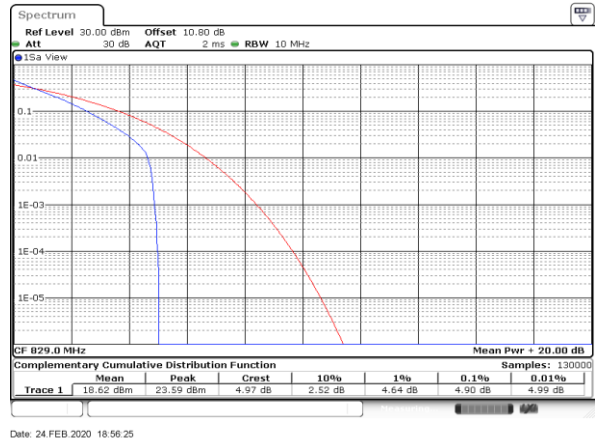


LTE Band 5 / 10MHz / QPSK

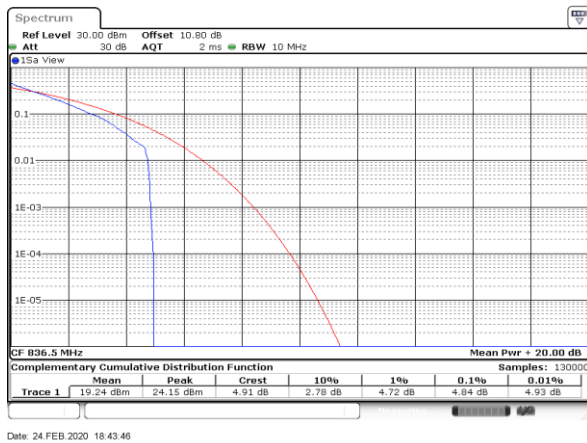
Lowest Channel / 1RB



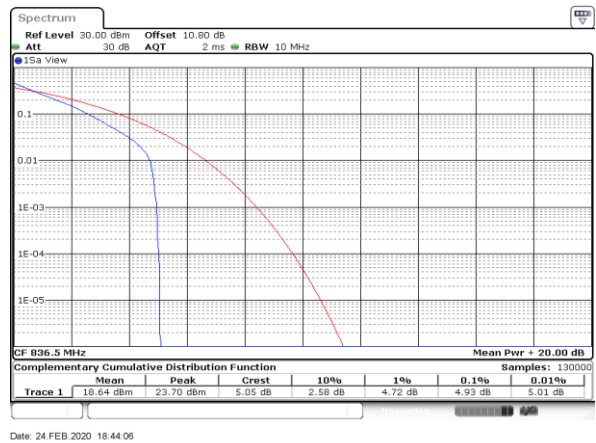
Lowest Channel / Full RB



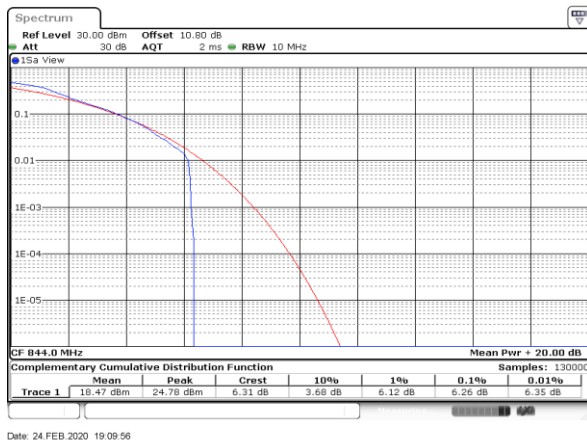
Middle Channel / 1RB



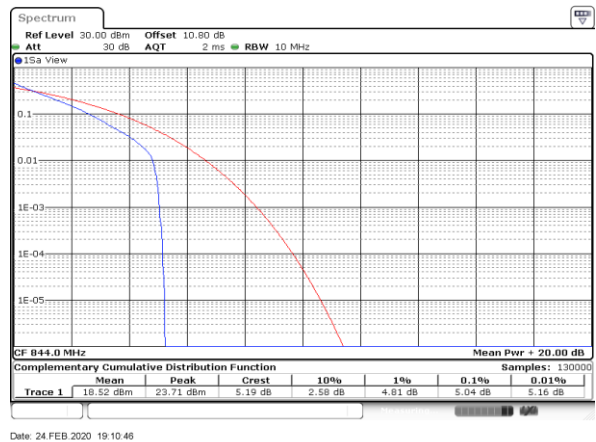
Middle Channel / Full RB



Highest Channel / 1RB



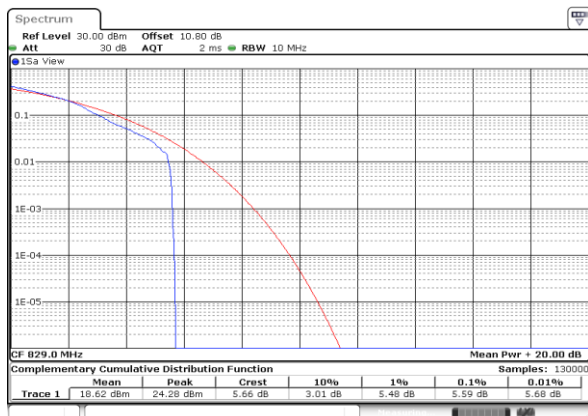
Highest Channel / Full RB



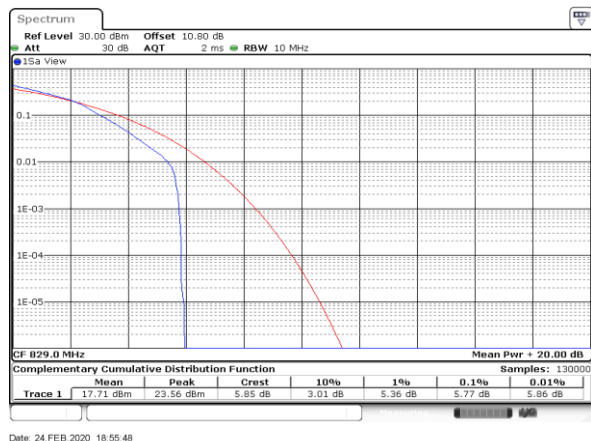


LTE Band 5 / 10MHz / 16QAM

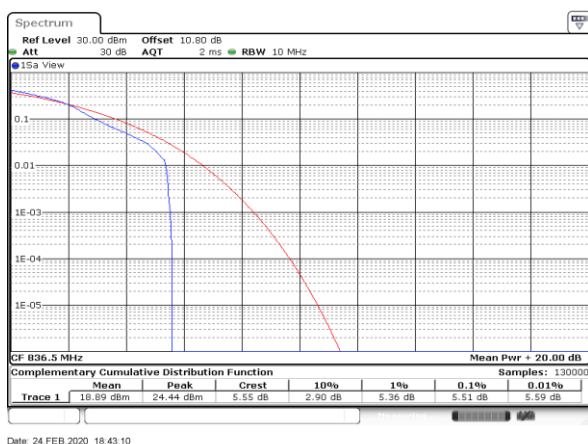
Lowest Channel / 1RB



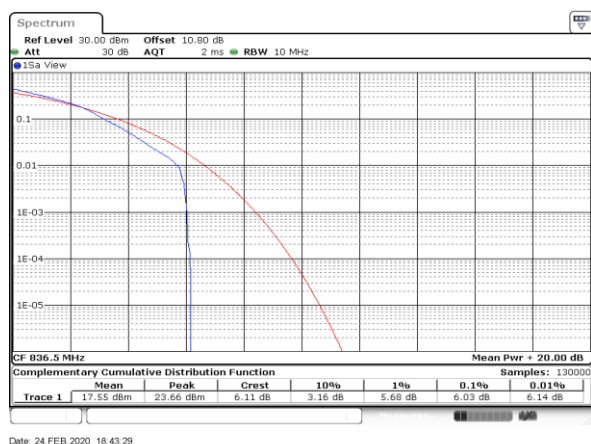
Lowest Channel / Full RB



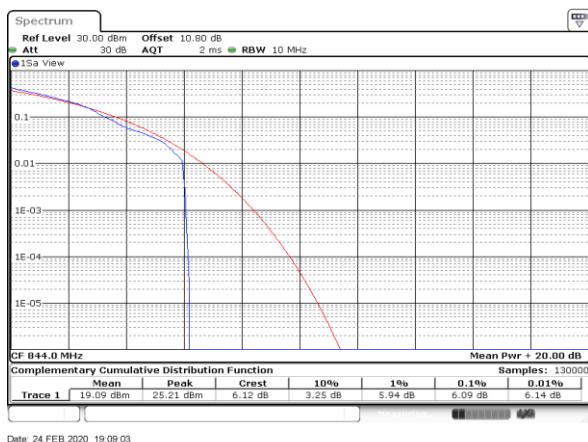
Middle Channel / 1RB



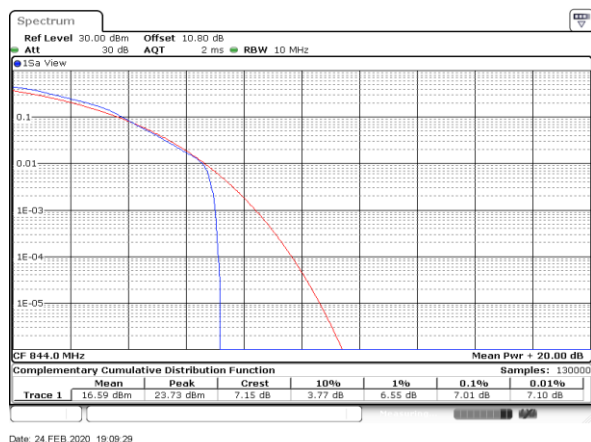
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





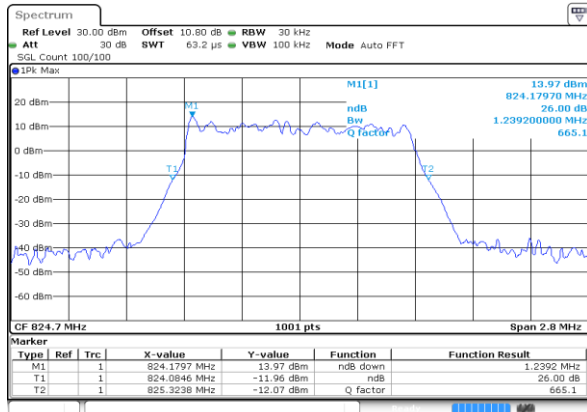
26dB Bandwidth

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	1.28	1.44	1.53	1.31	1.49	2.28	1.78	-	-	-	-
Middle CH	1.26	1.21	1.55	1.47	1.37	1.64	2.10	2.06	-	-	-	-
Highest CH	1.20	1.27	1.51	1.52	1.28	1.45	2.12	2.00	-	-	-	-

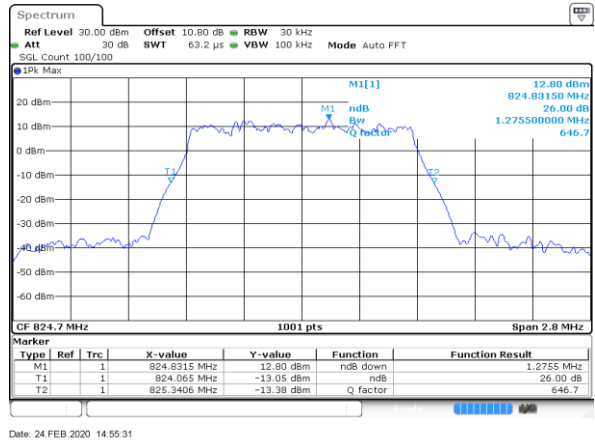


LTE Band 5

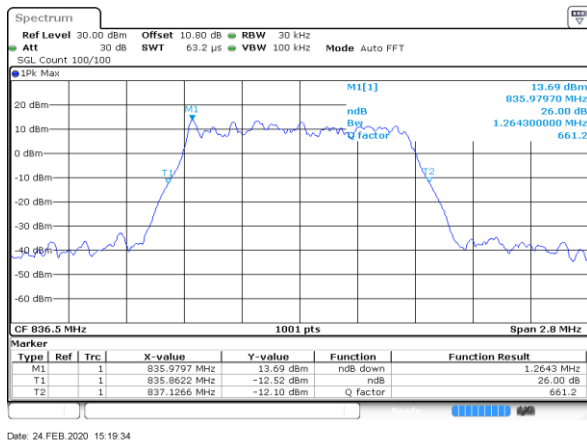
Lowest Channel / 1.4MHz / QPSK



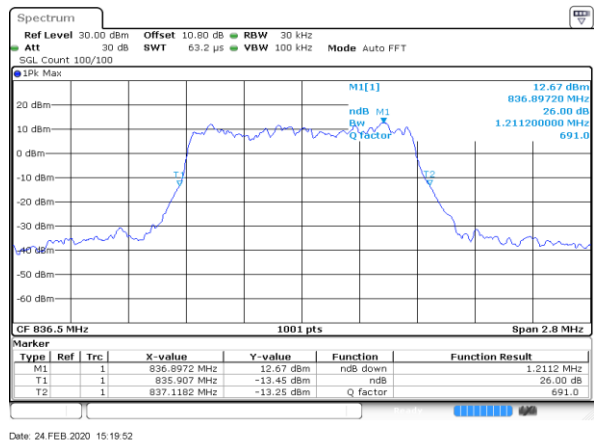
Lowest Channel / 1.4MHz / 16QAM



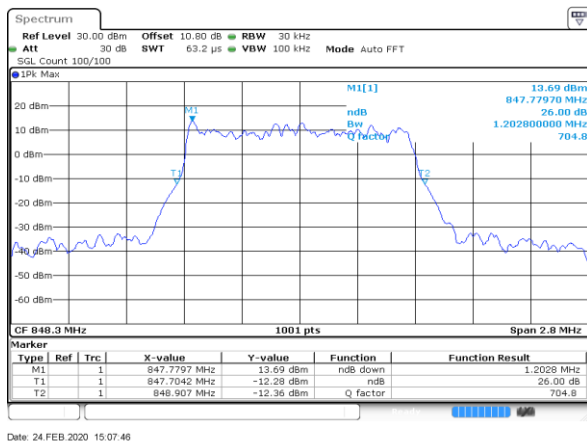
Middle Channel / 1.4MHz / QPSK



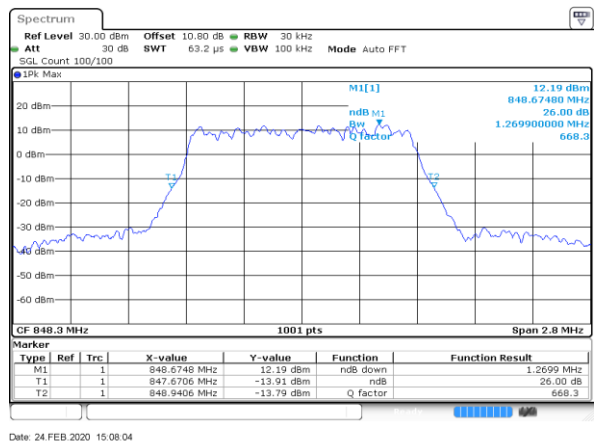
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



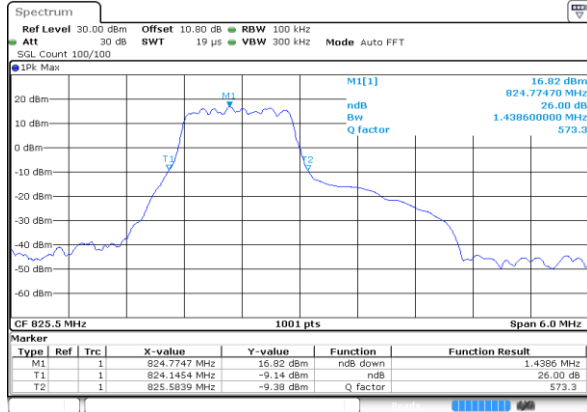
Highest Channel / 1.4MHz / 16QAM



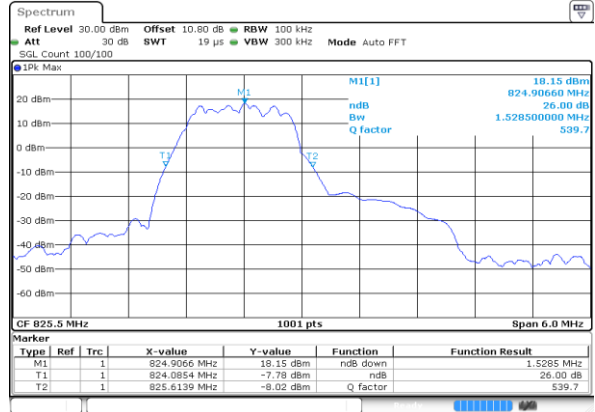


LTE Band 5

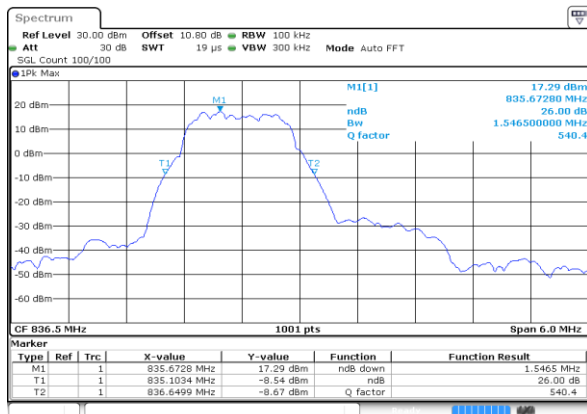
Lowest Channel / 3MHz / QPSK



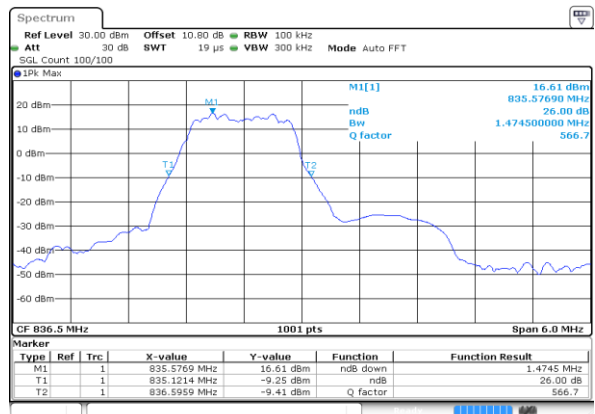
Lowest Channel / 3MHz / 16QAM



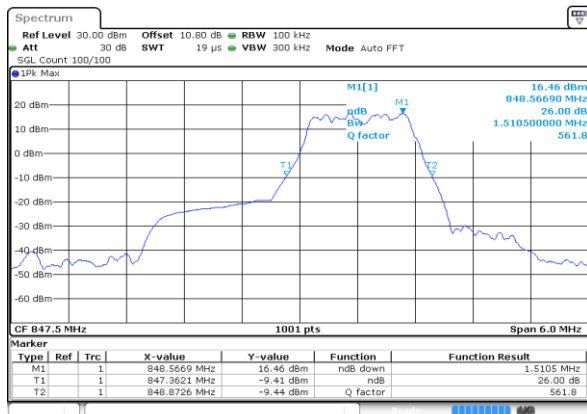
Middle Channel / 3MHz / QPSK



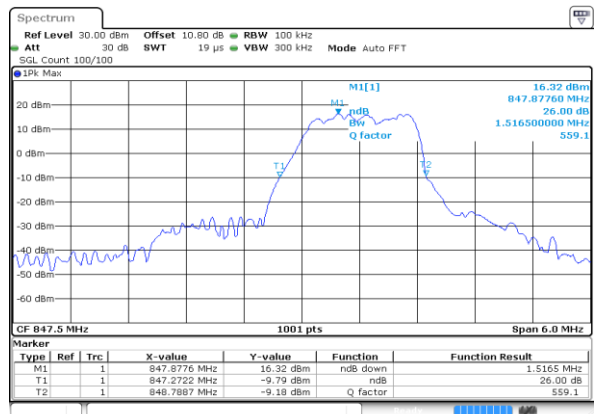
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



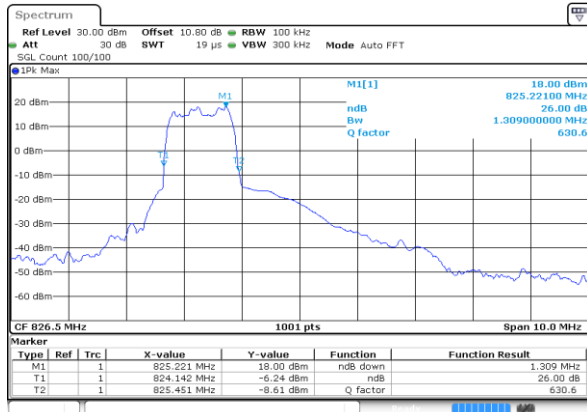
Highest Channel / 3MHz / 16QAM



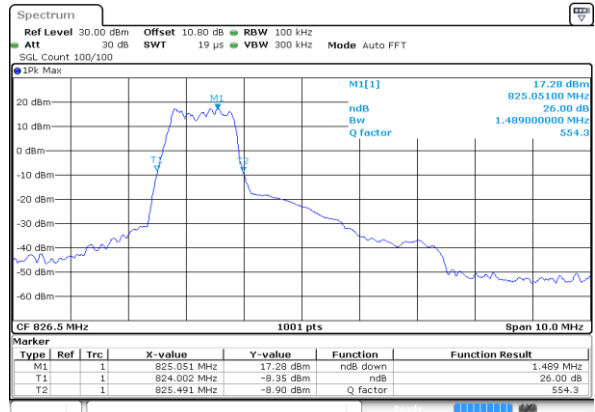


LTE Band 5

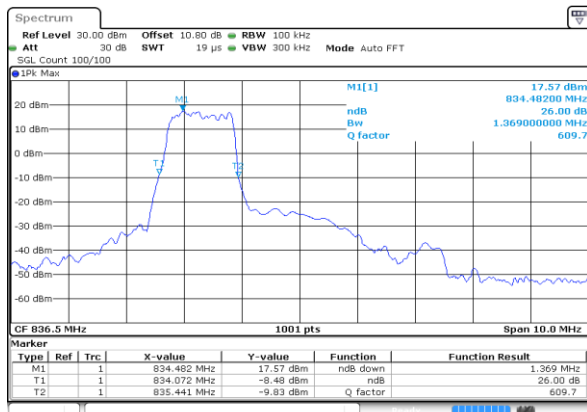
Lowest Channel / 5MHz / QPSK



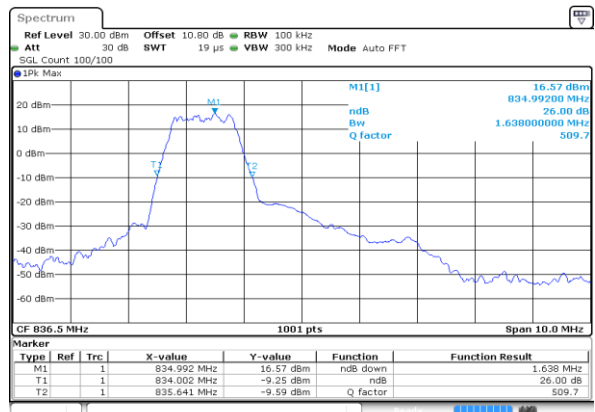
Lowest Channel / 5MHz / 16QAM



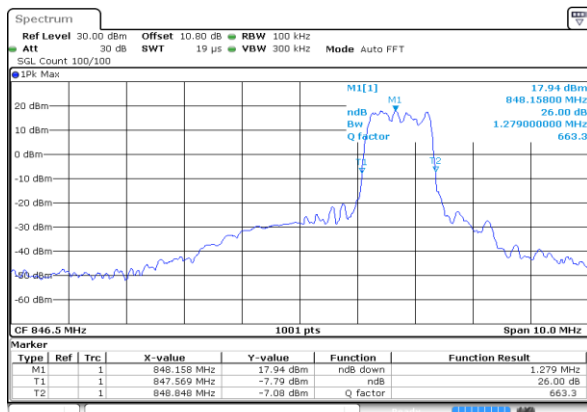
Middle Channel / 5MHz / QPSK



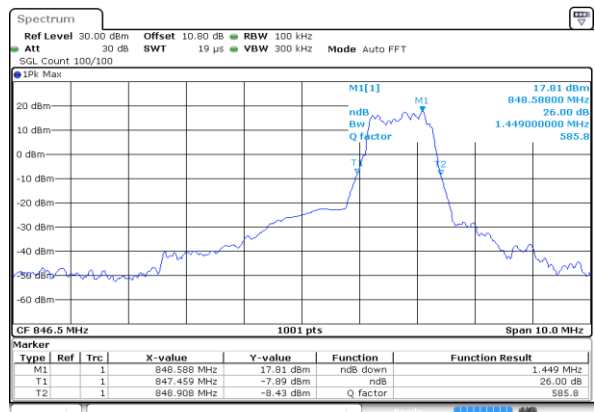
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



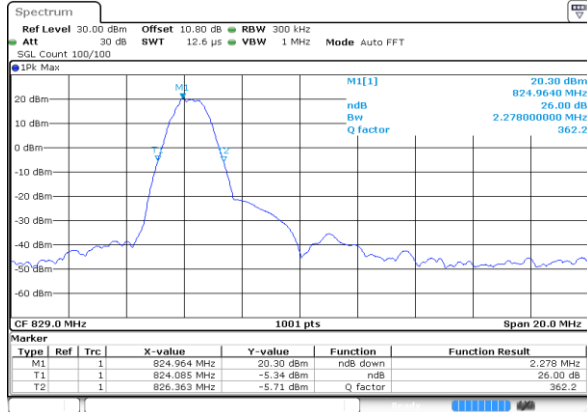
Highest Channel / 5MHz / 16QAM



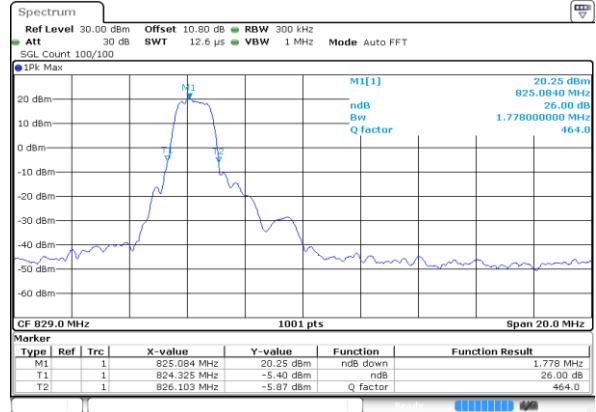


LTE Band 5

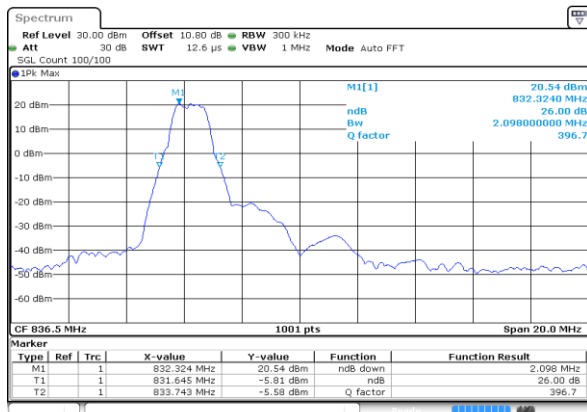
Lowest Channel / 10MHz / QPSK



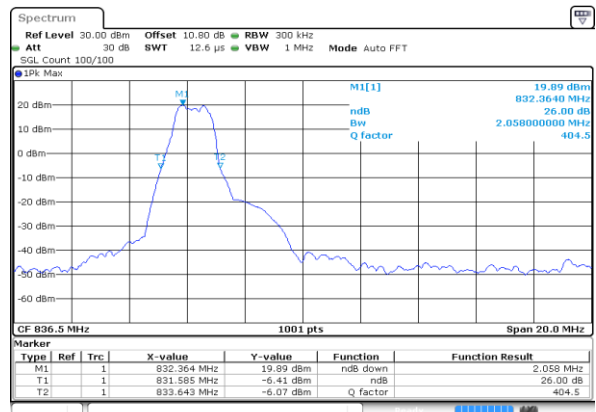
Lowest Channel / 10MHz / 16QAM



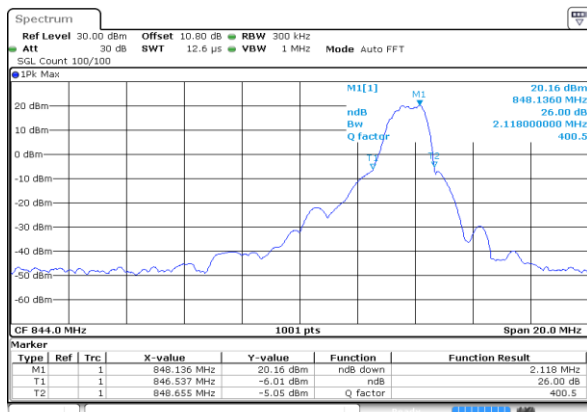
Middle Channel / 10MHz / QPSK



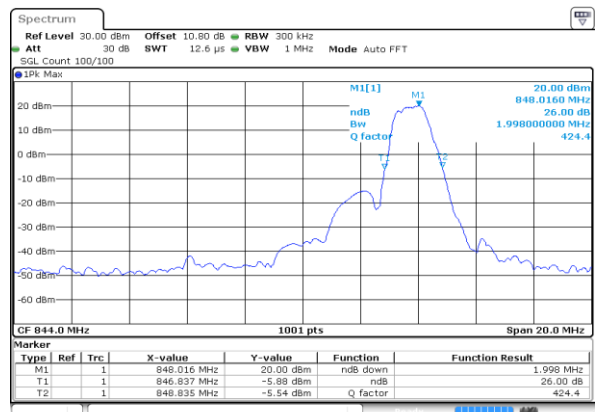
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



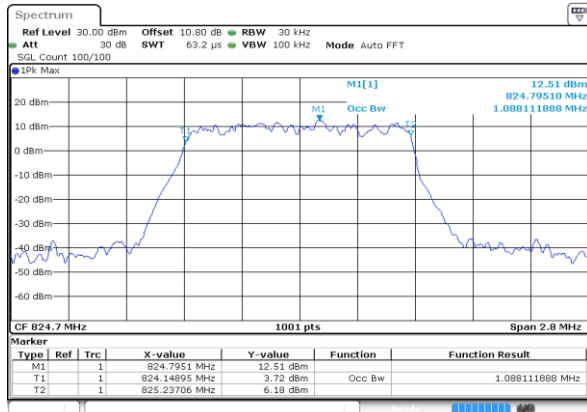
**Occupied Bandwidth**

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	1.15	1.14	1.19	1.19	1.40	1.44	-	-	-	-
Middle CH	1.09	1.08	1.14	1.16	1.15	1.20	1.48	1.46	-	-	-	-
Highest CH	1.09	1.09	1.14	1.19	1.16	1.21	1.52	1.54	-	-	-	-

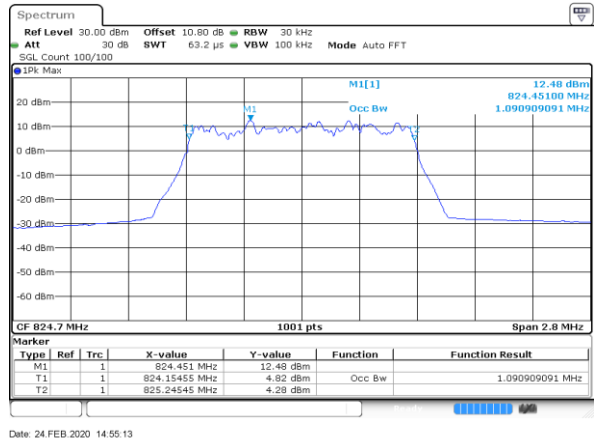


LTE Band 5

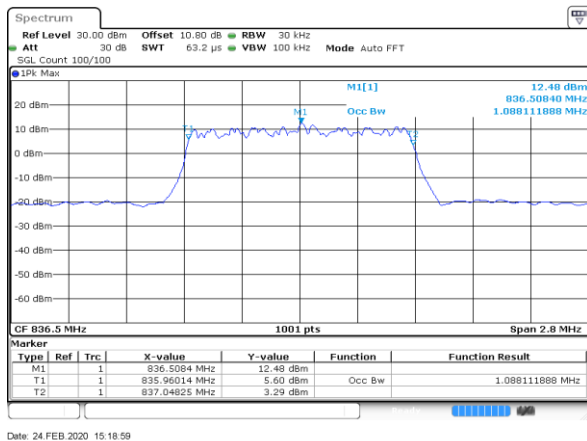
Lowest Channel / 1.4MHz / QPSK



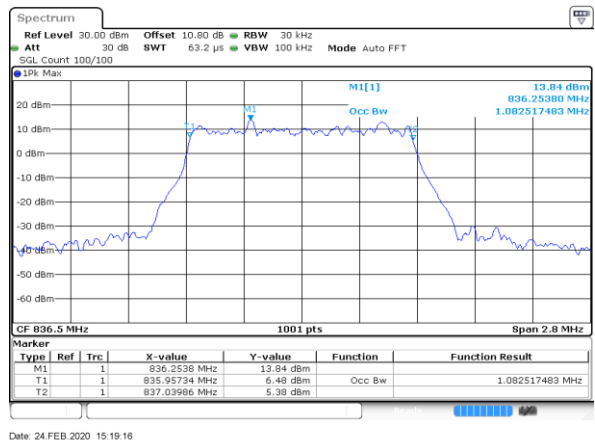
Lowest Channel / 1.4MHz / 16QAM



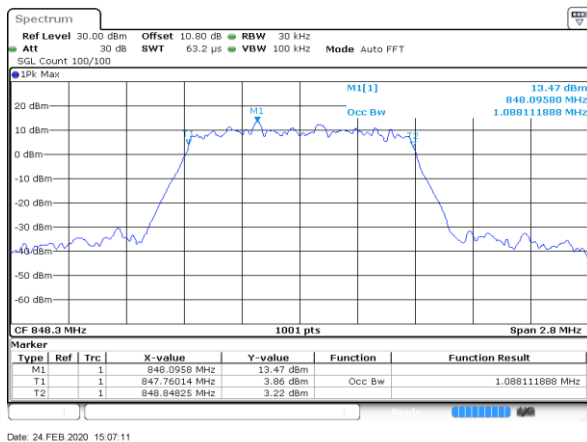
Middle Channel / 1.4MHz / QPSK



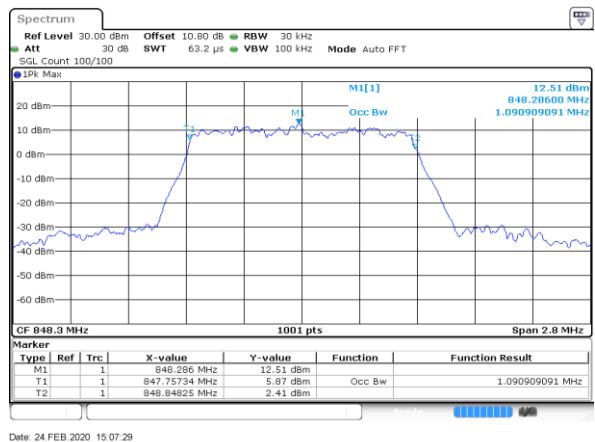
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



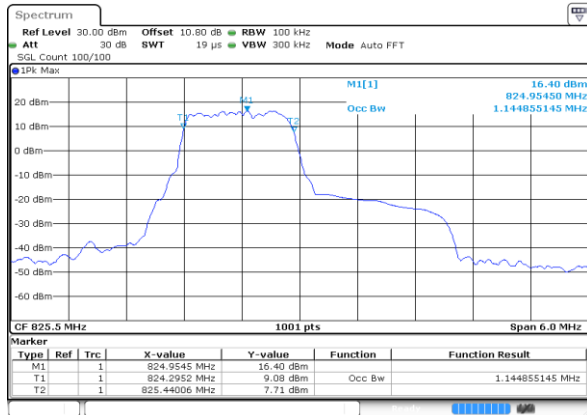
Highest Channel / 1.4MHz / 16QAM



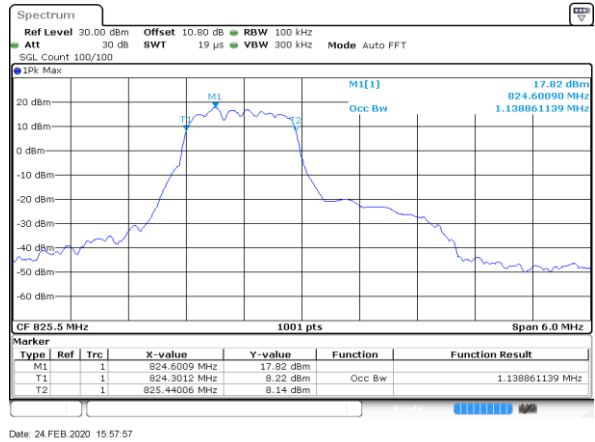


LTE Band 5

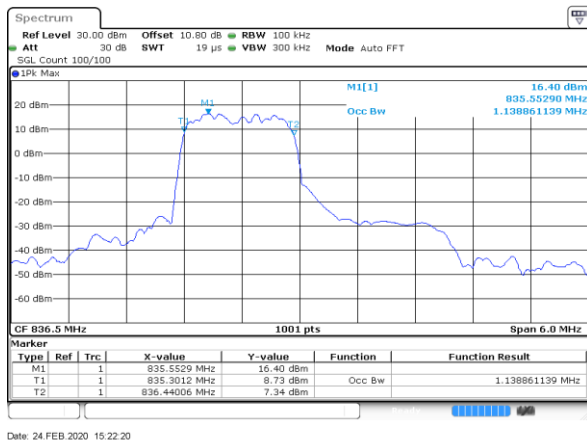
Lowest Channel / 3MHz / QPSK



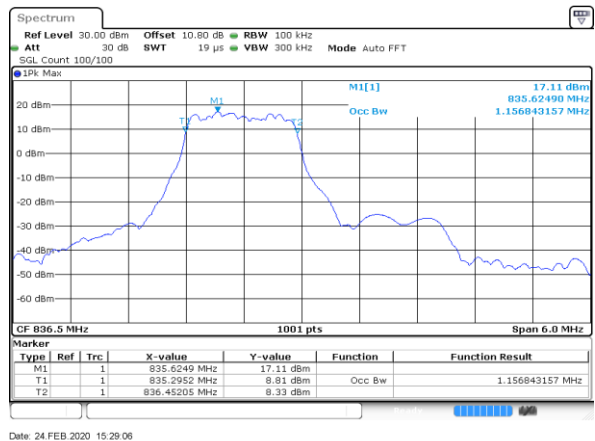
Lowest Channel / 3MHz / 16QAM



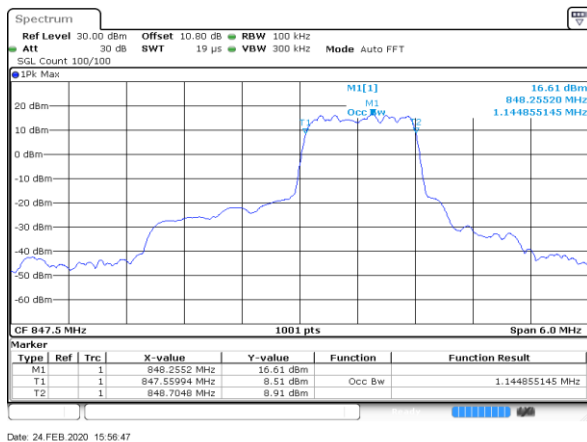
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



Highest Channel / 3MHz / 16QAM

