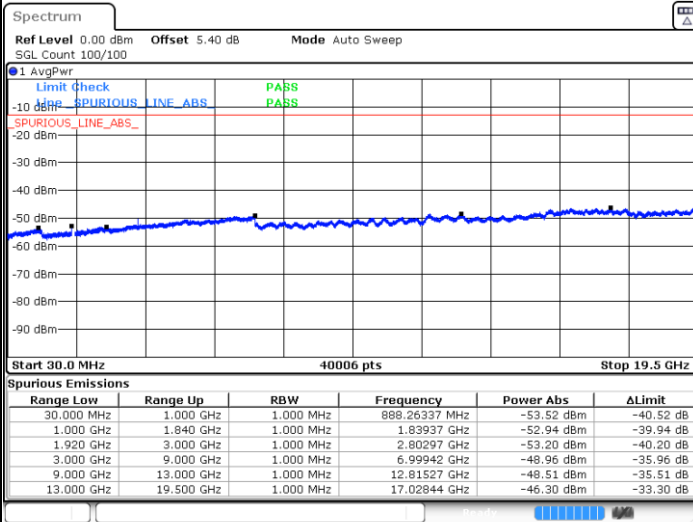




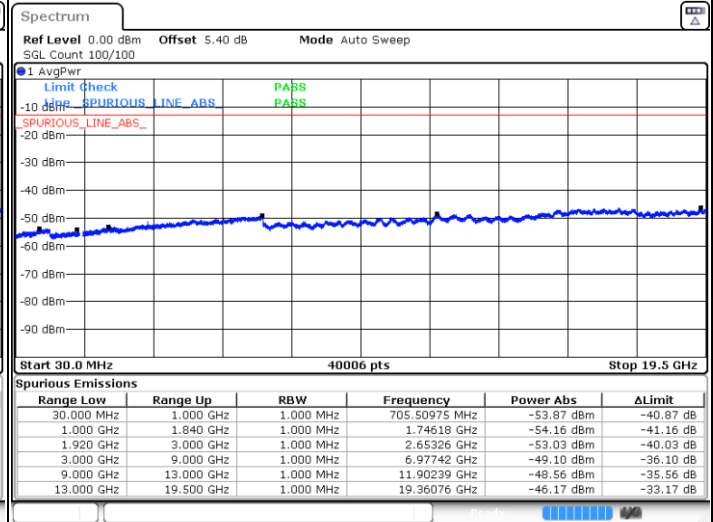
LTE Band 2 / 3MHz

Lowest Channel / 256QAM

Middle Channel / 256QAM

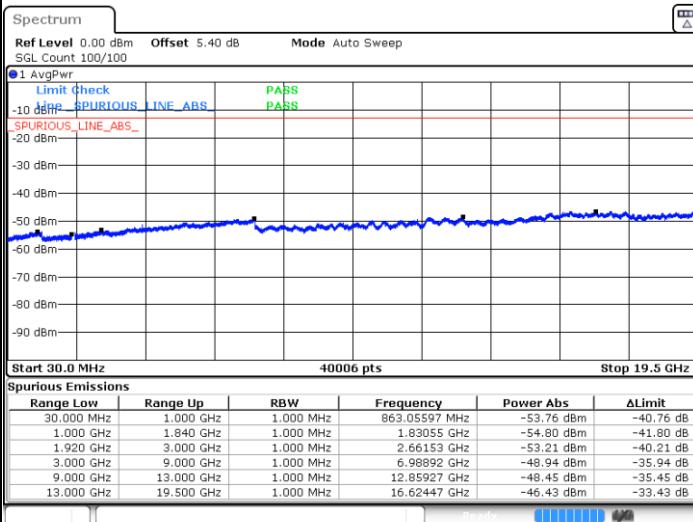


Date: 11.NOV.2020 20:47:50



Date: 11.NOV.2020 20:49:01

Highest Channel / 256QAM



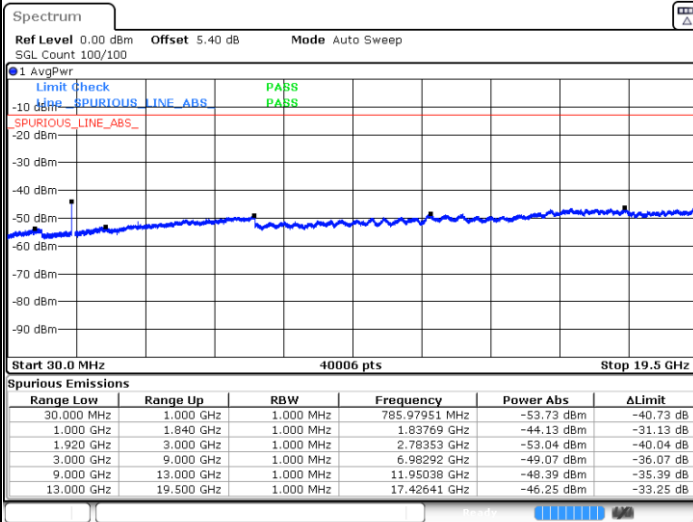
Date: 11.NOV.2020 20:51:49



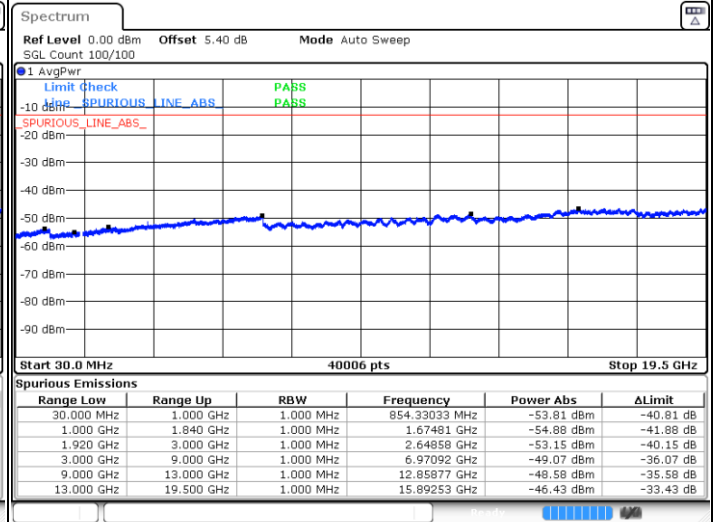
LTE Band 2 / 5MHz

Lowest Channel / 256QAM

Middle Channel / 256QAM

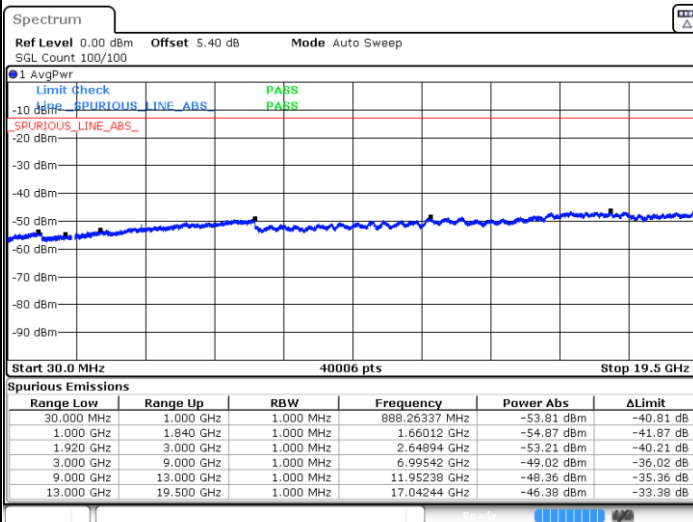


Date: 11.NOV.2020 20:58:59



Date: 11.NOV.2020 21:00:02

Highest Channel / 256QAM

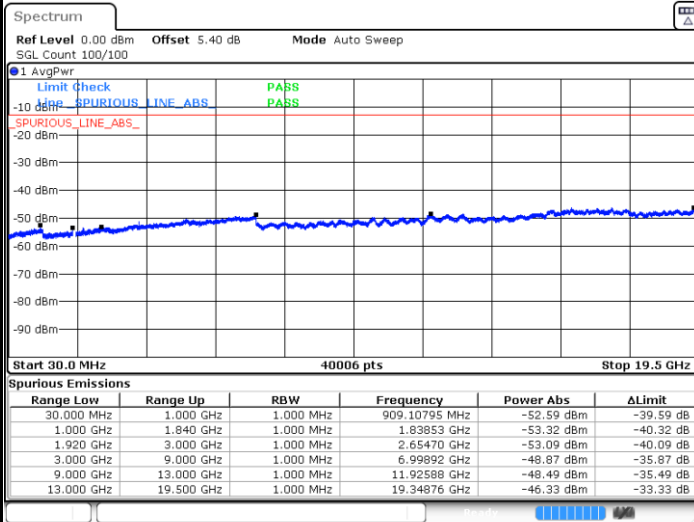


Date: 11.NOV.2020 21:03:43



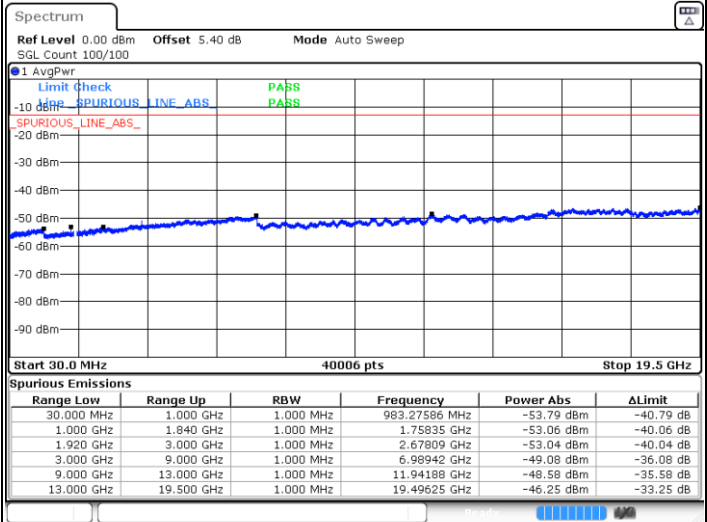
LTE Band 2 / 10MHz

Lowest Channel / 256QAM



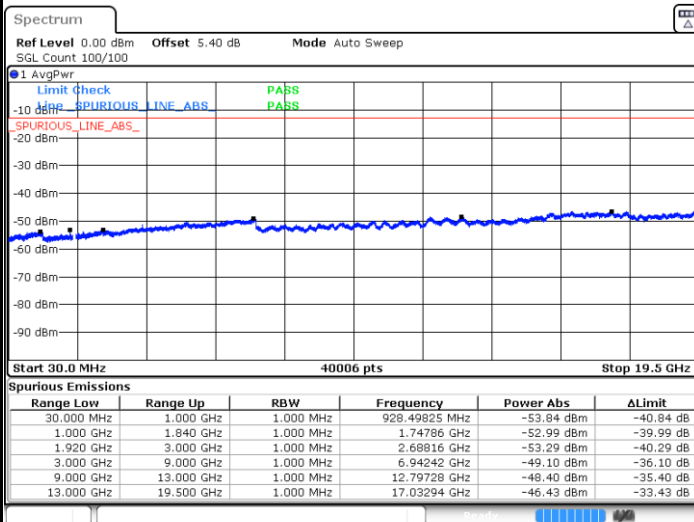
Date: 11.NOV.2020 21:19:36

Middle Channel / 256QAM



Date: 11.NOV.2020 21:16:00

Highest Channel / 256QAM



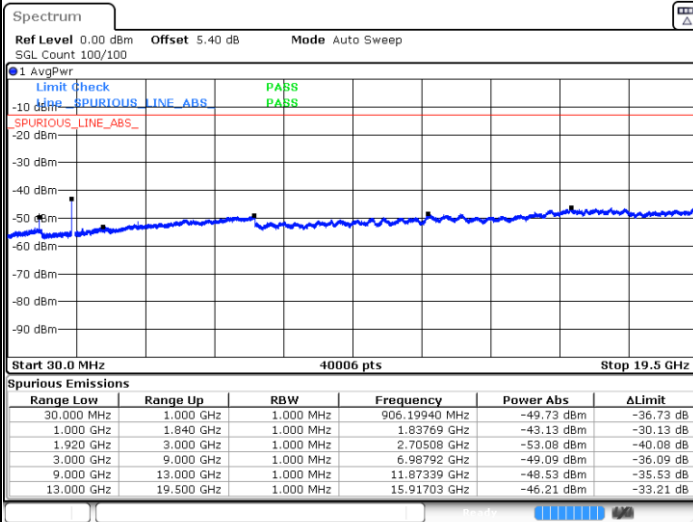
Date: 11.NOV.2020 21:20:40



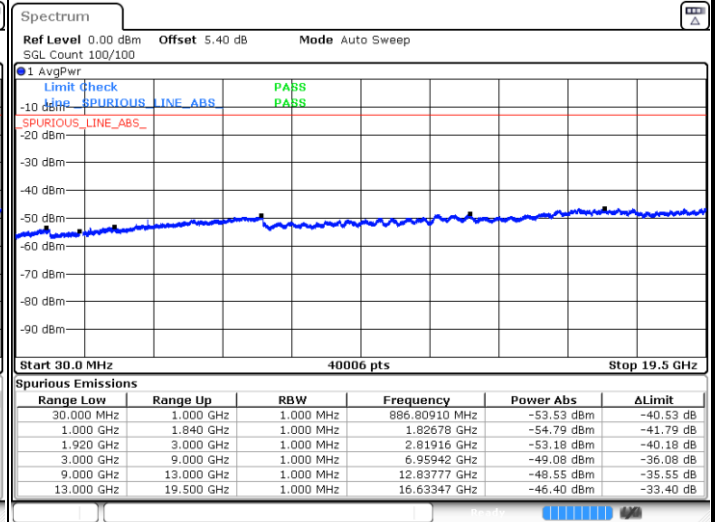
LTE Band 2 / 15MHz

Lowest Channel / 256QAM

Middle Channel / 256QAM

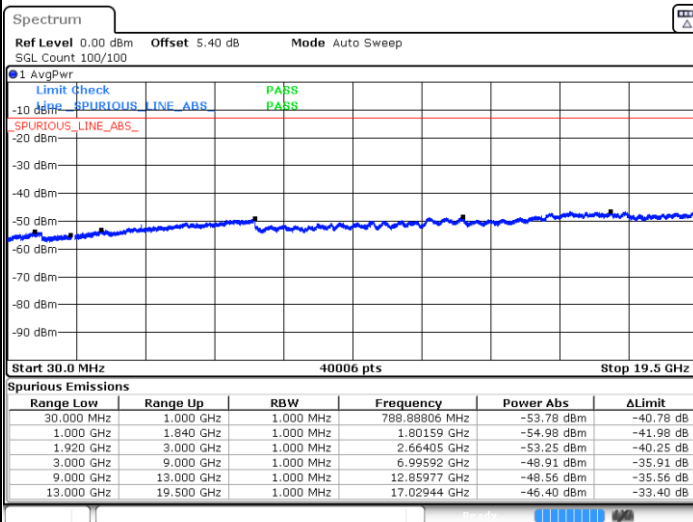


Date: 11.NOV.2020 21:28:29



Date: 11.NOV.2020 21:29:27

Highest Channel / 256QAM



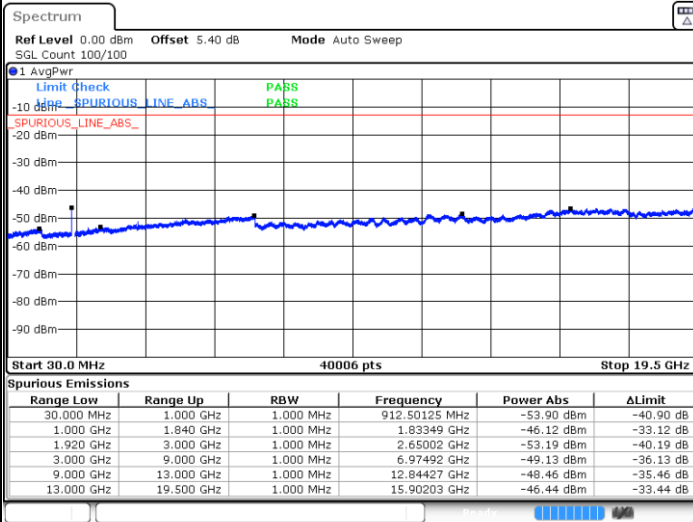
Date: 11.NOV.2020 21:34:58



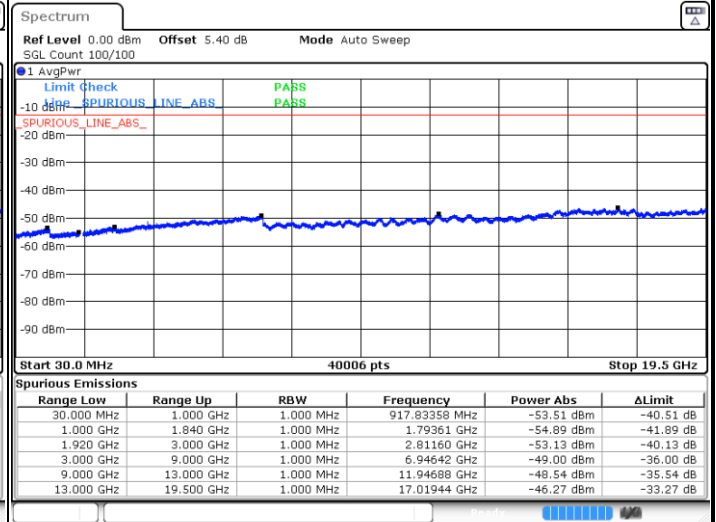
LTE Band 2 / 20MHz

Lowest Channel / 256QAM

Middle Channel / 256QAM

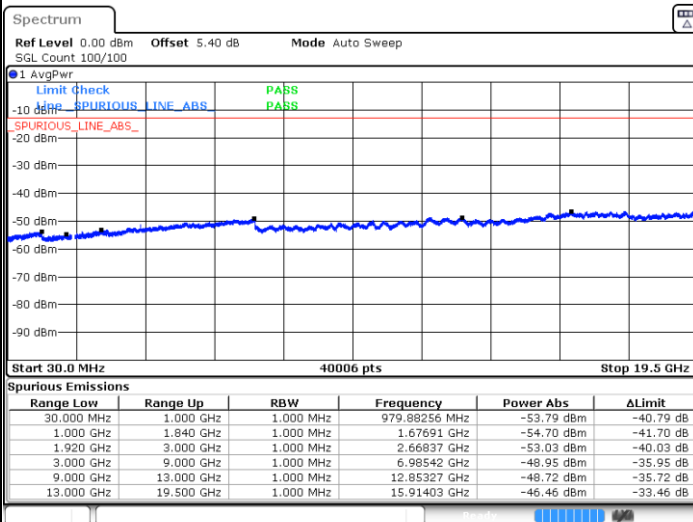


Date: 11.NOV.2020 21:39:24



Date: 11.NOV.2020 21:41:26

Highest Channel / 256QAM



Date: 11.NOV.2020 21:48:41

**Frequency Stability**

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0040	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0055	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0008	

Note:

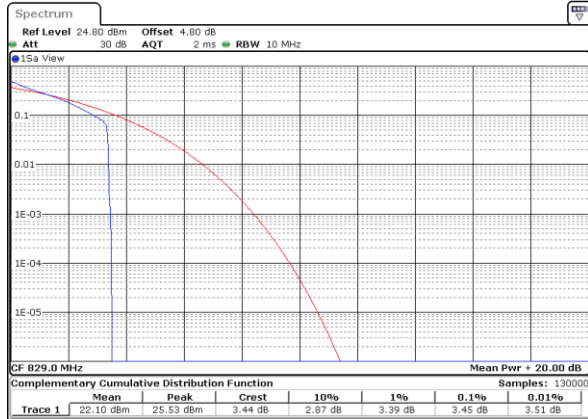
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



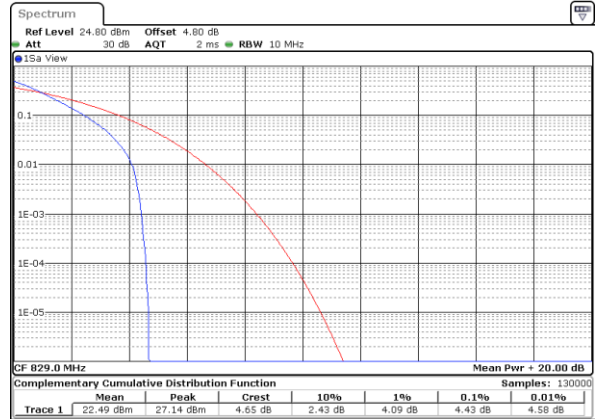
LTE Band 5

Peak-to-Average Ratio

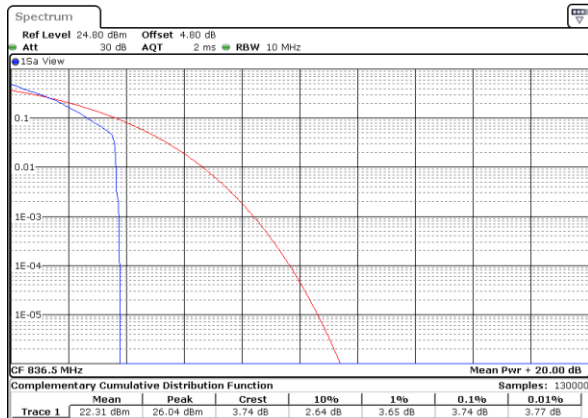
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.45	4.43	3.97	5.42	PASS
Middle CH	3.74	4.67	5.33	5.77	
Highest CH	3.39	4.61	4.81	5.51	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.35	5.48	5.97	6.43	PASS
Middle CH	4.96	5.71	6.49	6.38	
Highest CH	4.29	5.57	7.68	8.06	

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


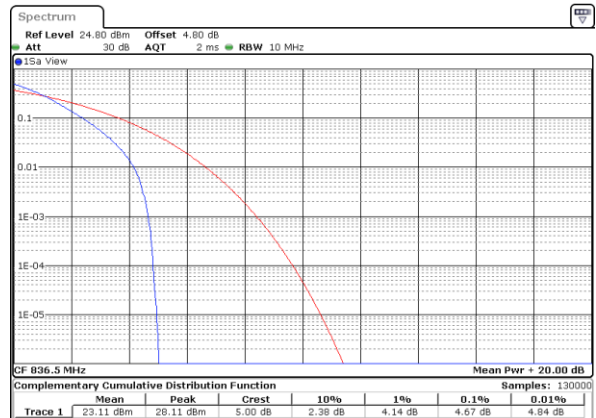
Date: 31.OCT.2020 00:09:49

Lowest Channel / Full RB


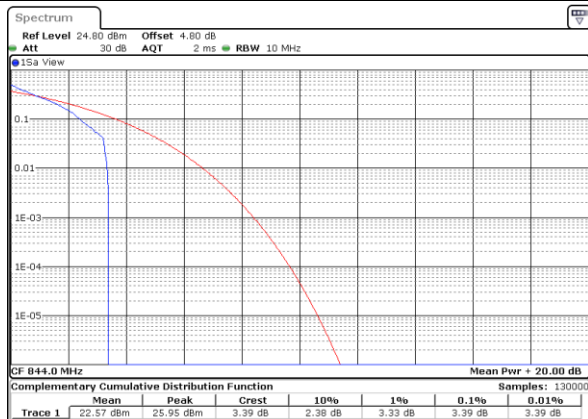
Date: 31.OCT.2020 00:10:05

Middle Channel / 1RB


Date: 31.OCT.2020 00:09:38

Middle Channel / Full RB


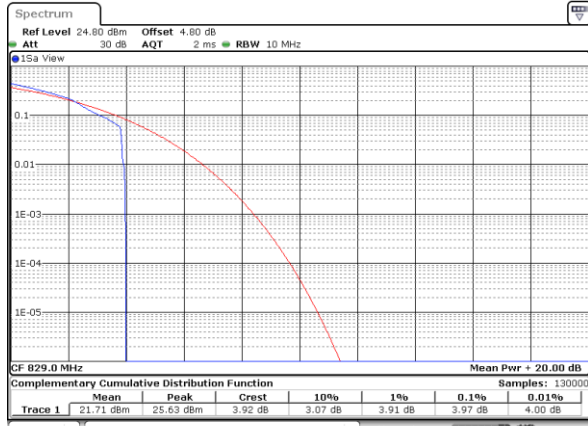
Date: 31.OCT.2020 00:09:28

Highest Channel / 1RB


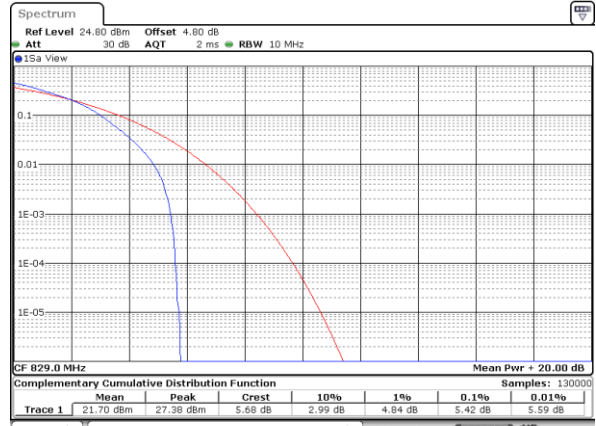
Date: 31.OCT.2020 00:09:10

Highest Channel / Full RB

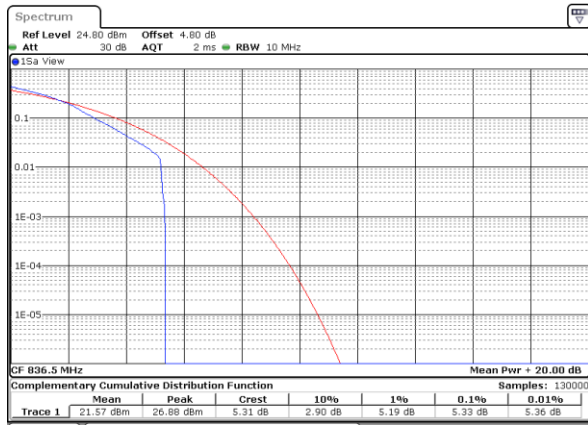

Date: 31.OCT.2020 00:09:19

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


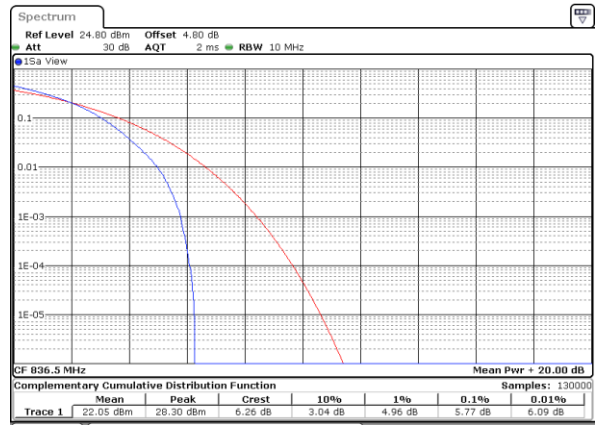
Date: 31.OCT.2020 00:08:07

Lowest Channel / Full RB


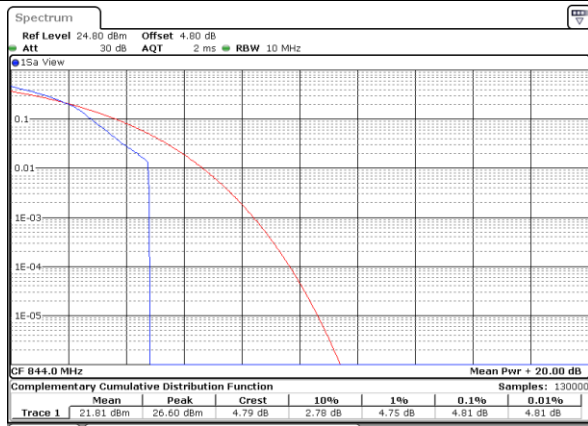
Date: 31.OCT.2020 00:08:16

Middle Channel / 1RB


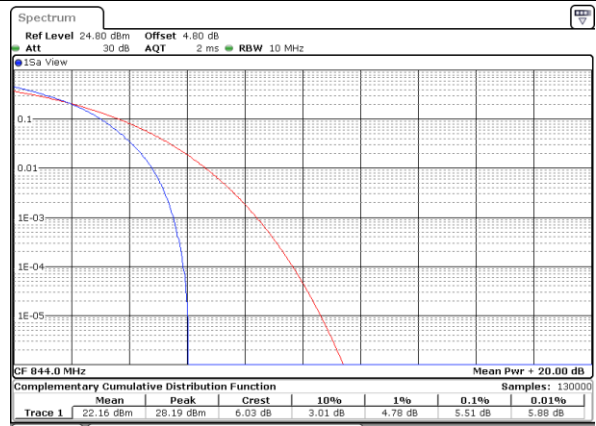
Date: 31.OCT.2020 00:08:26

Middle Channel / Full RB


Date: 31.OCT.2020 00:08:35

Highest Channel / 1RB


Date: 31.OCT.2020 00:08:52

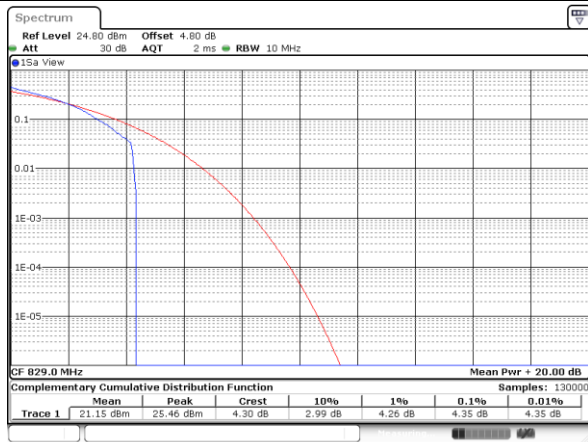
Highest Channel / Full RB


Date: 31.OCT.2020 00:09:01



LTE Band 5 / 10MHz / 64QAM

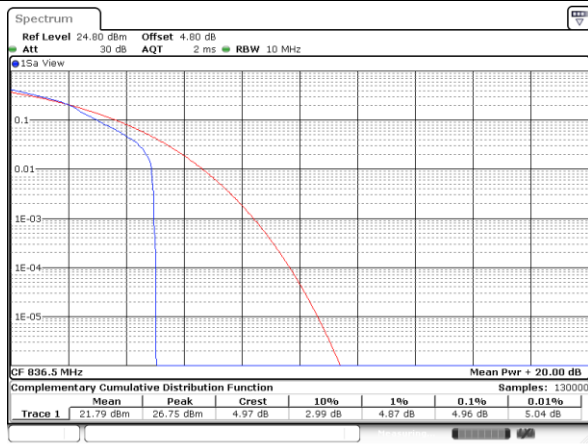
Lowest Channel / 1RB



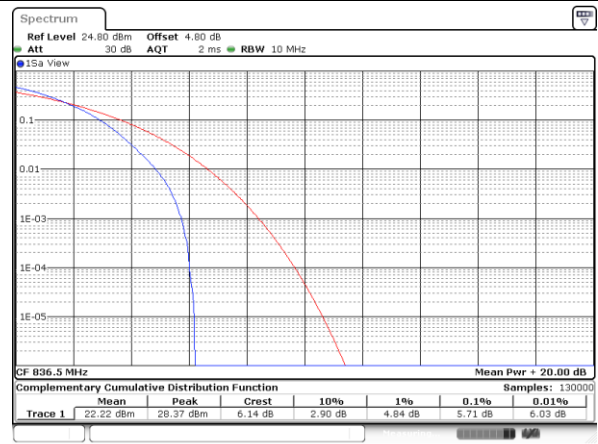
Lowest Channel / Full RB



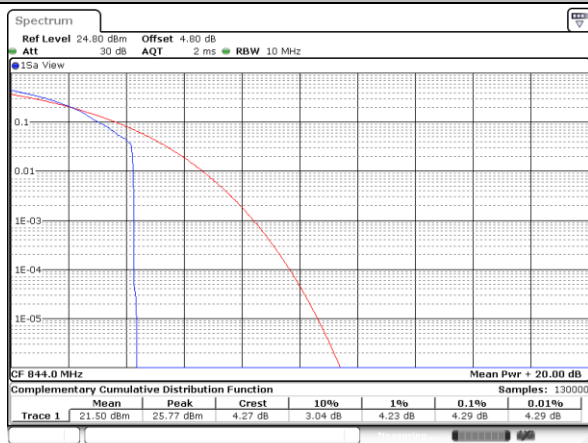
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



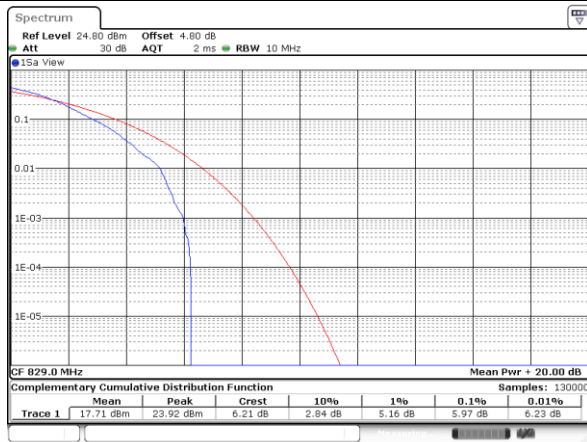
Highest Channel / Full RB



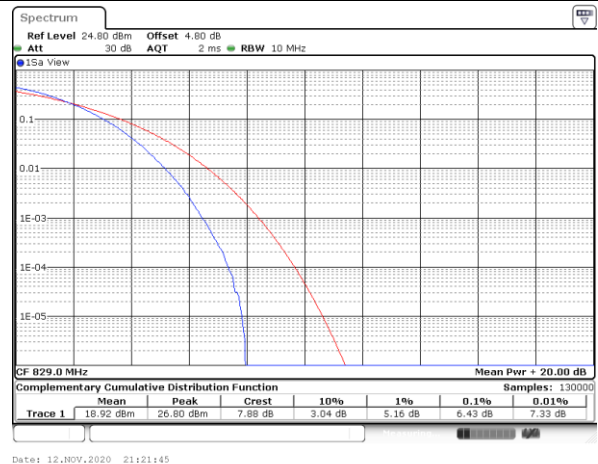


LTE Band 5 / 10MHz / 256QAM

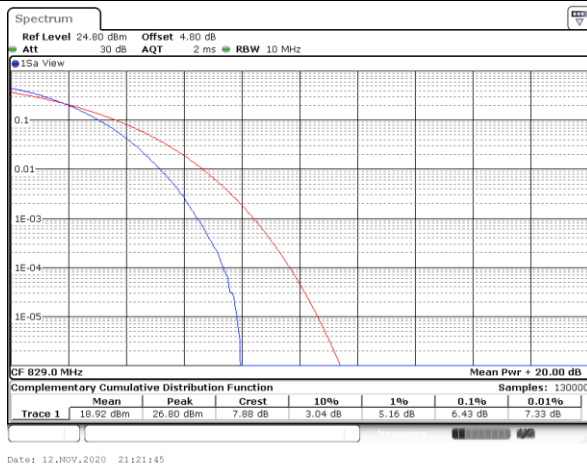
Lowest Channel / 1RB



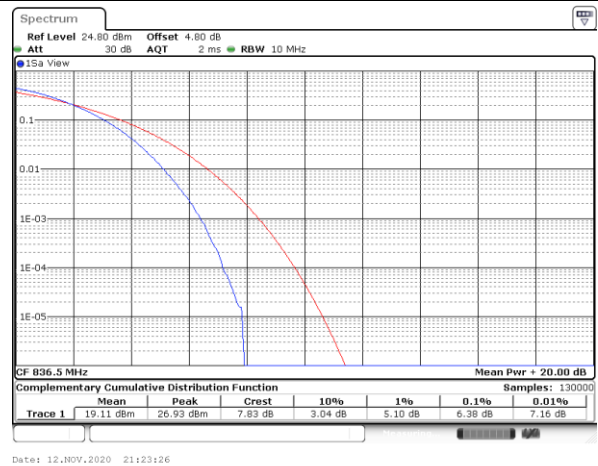
Lowest Channel / Full RB



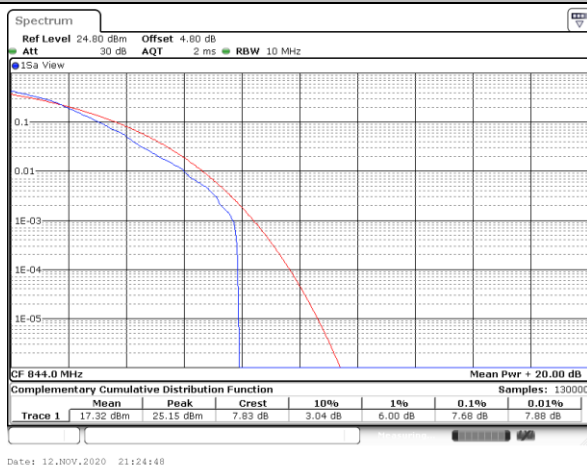
Middle Channel / 1RB



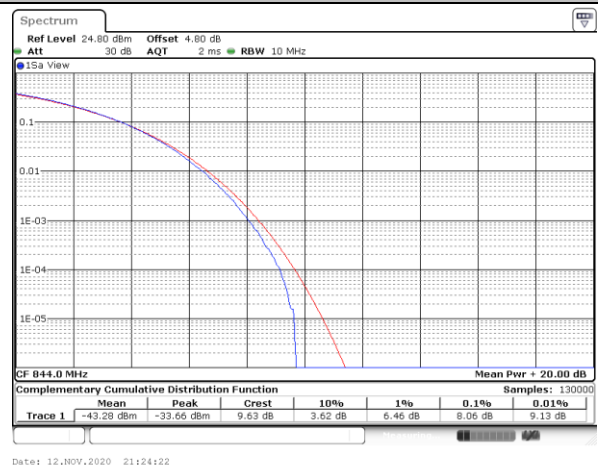
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



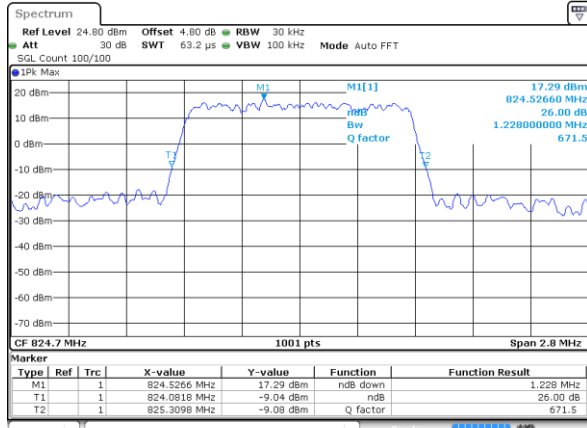
**26dB Bandwidth**

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.23	1.22	3.05	3.07	4.85	4.88	9.73	9.75	-	-	-	-
Middle CH	1.23	1.24	3.02	2.99	4.87	4.86	9.81	9.91	-	-	-	-
Highest CH	1.24	1.21	3.07	3.05	4.89	4.89	9.85	9.67	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM				
Lowest CH	1.24	1.22	3.02	3.02	4.91	4.90	9.69	9.75	-	-	-	-
Middle CH	1.22	1.22	3.00	3.03	4.87	4.89	9.81	9.73	-	-	-	-
Highest CH	1.23	1.22	3.03	3.00	4.91	4.82	9.91	9.79	-	-	-	-



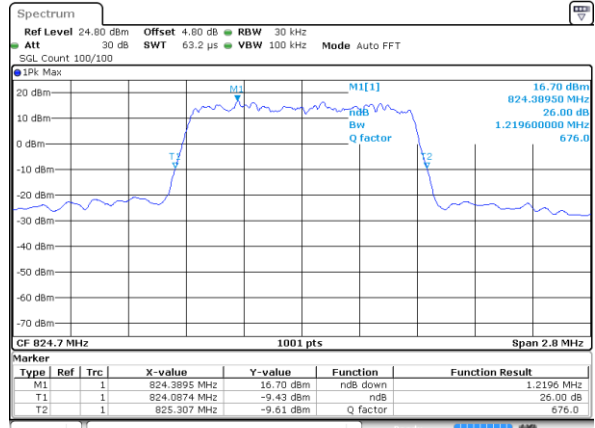
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



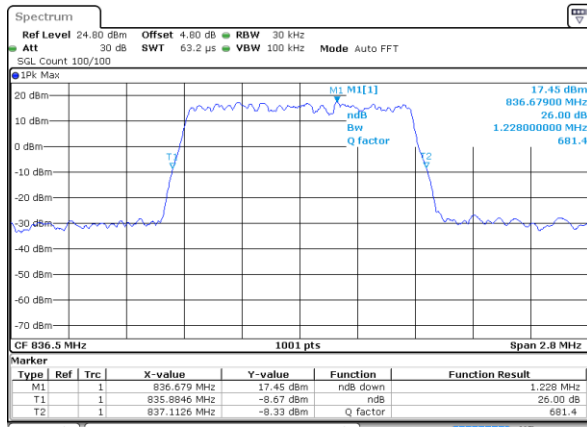
Date: 30 OCT 2020 22:47:00

Lowest Channel / 1.4MHz / 16QAM



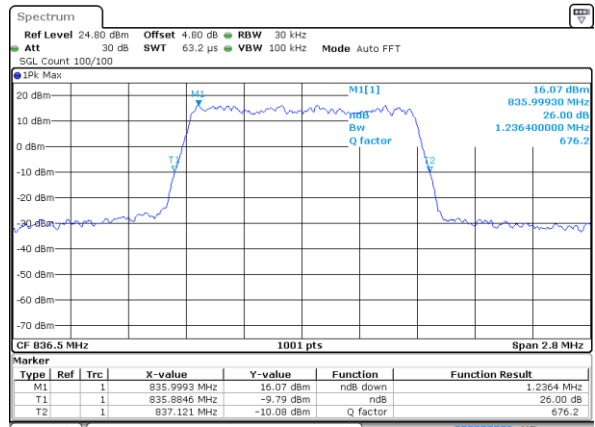
Date: 30 OCT 2020 22:46:50

Middle Channel / 1.4MHz / QPSK



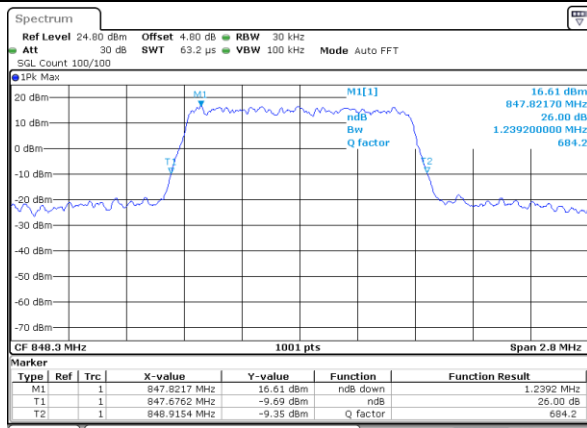
Date: 30 OCT 2020 22:55:48

Middle Channel / 1.4MHz / 16QAM



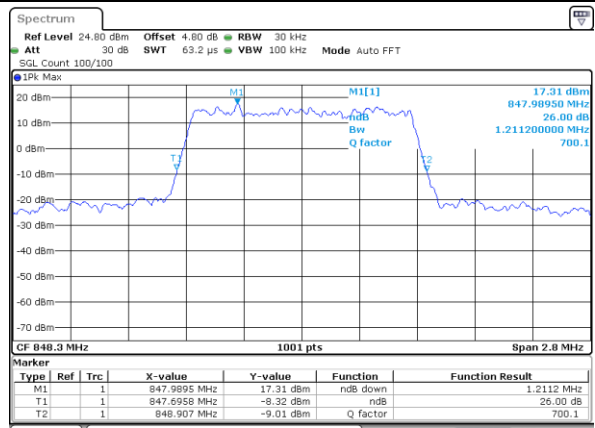
Date: 30 OCT 2020 22:55:58

Highest Channel / 1.4MHz / QPSK



Date: 30 OCT 2020 22:58:16

Highest Channel / 1.4MHz / 16QAM

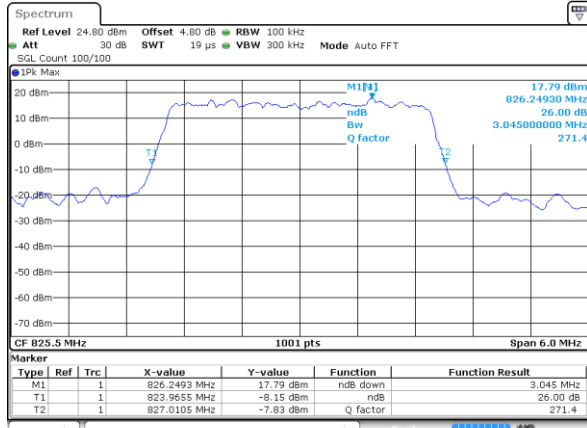


Date: 30 OCT 2020 22:58:26

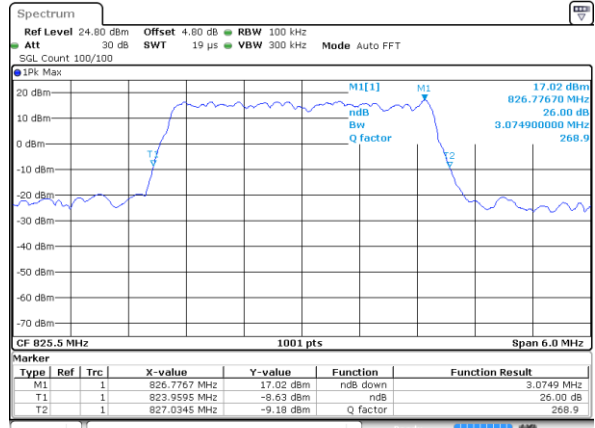


LTE Band 5

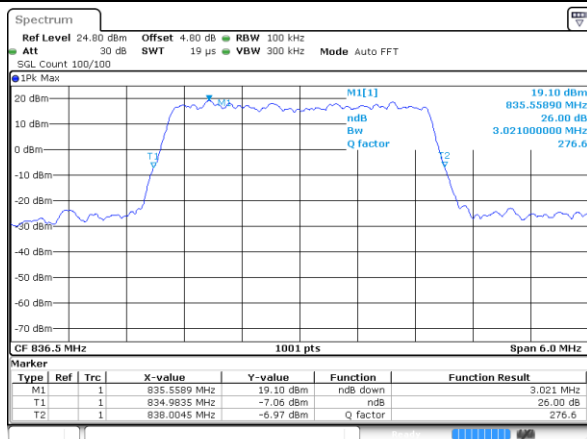
Lowest Channel / 3MHz / QPSK



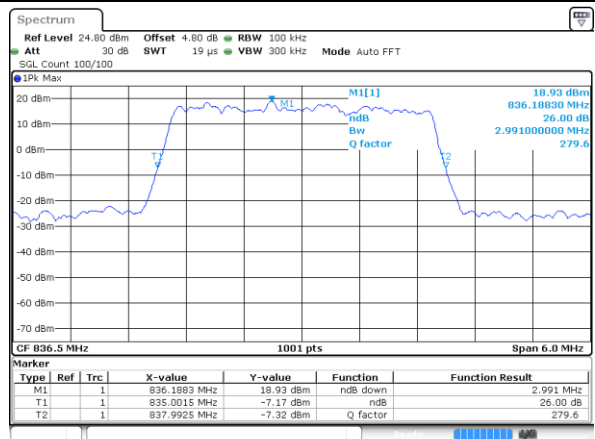
Lowest Channel / 3MHz / 16QAM



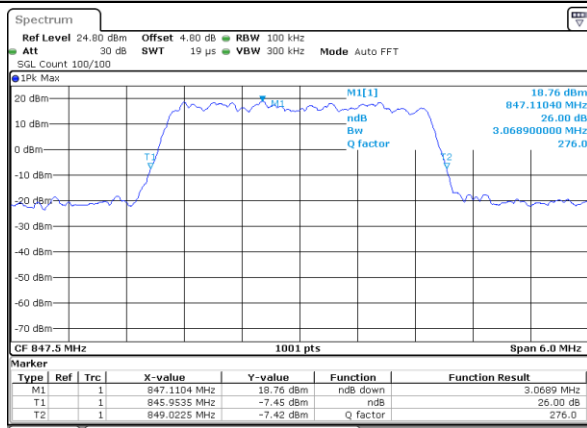
Middle Channel / 3MHz / QPSK



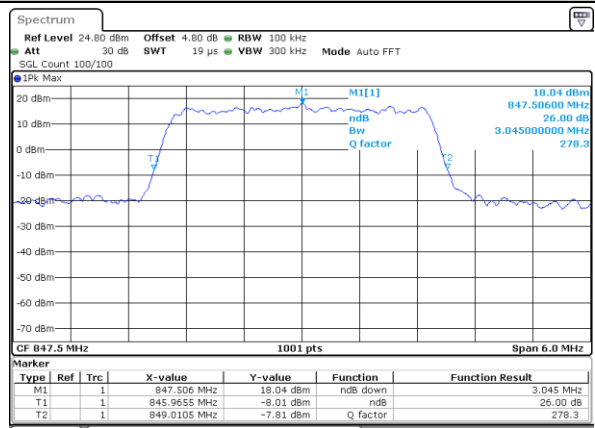
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



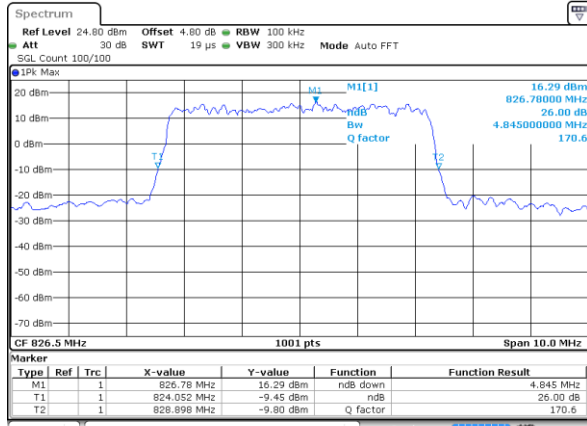
Highest Channel / 3MHz / 16QAM





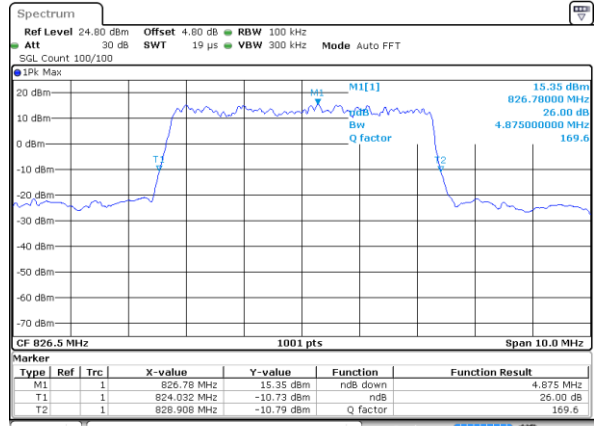
LTE Band 5

Lowest Channel / 5MHz / QPSK



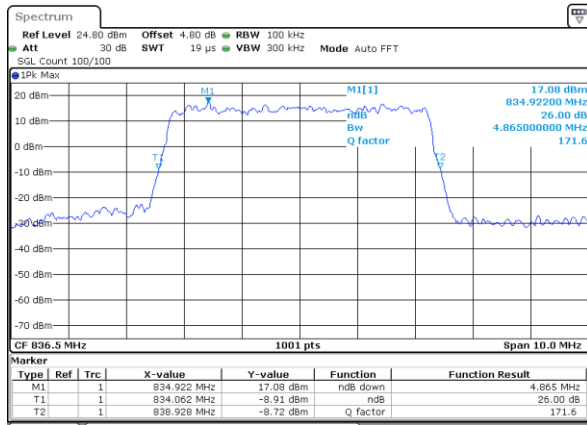
Date: 30 OCT 2020 23:27:38

Lowest Channel / 5MHz / 16QAM



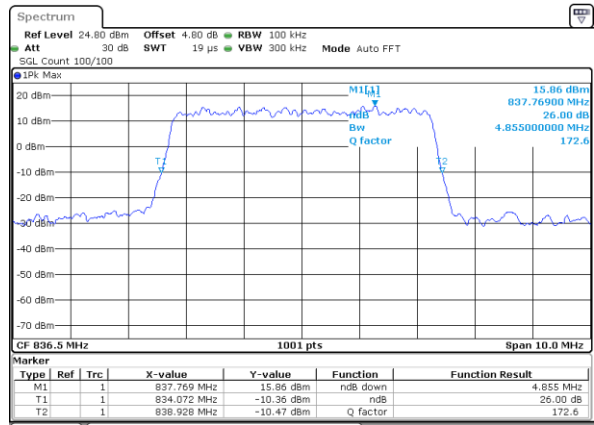
Date: 30 OCT 2020 23:27:48

Middle Channel / 5MHz / QPSK



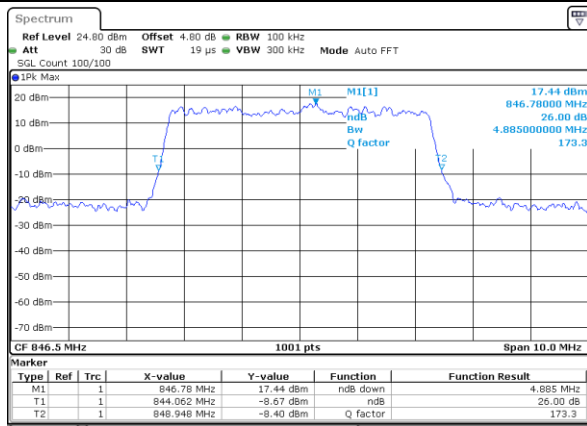
Date: 30 OCT 2020 23:36:36

Middle Channel / 5MHz / 16QAM



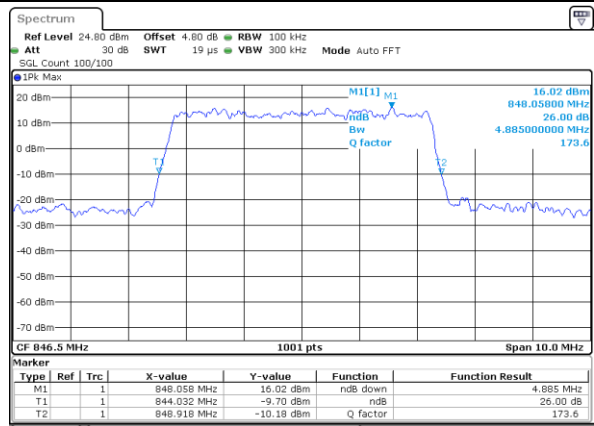
Date: 30 OCT 2020 23:36:46

Highest Channel / 5MHz / QPSK



Date: 30 OCT 2020 23:39:05

Highest Channel / 5MHz / 16QAM

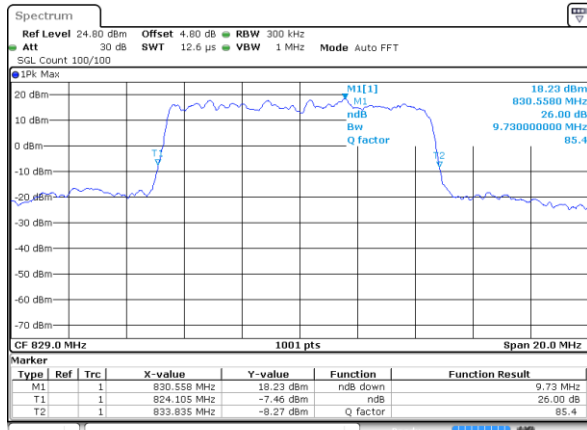


Date: 30 OCT 2020 23:39:15

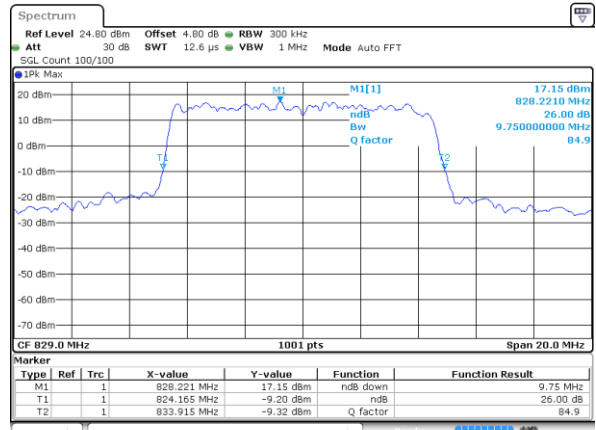


LTE Band 5

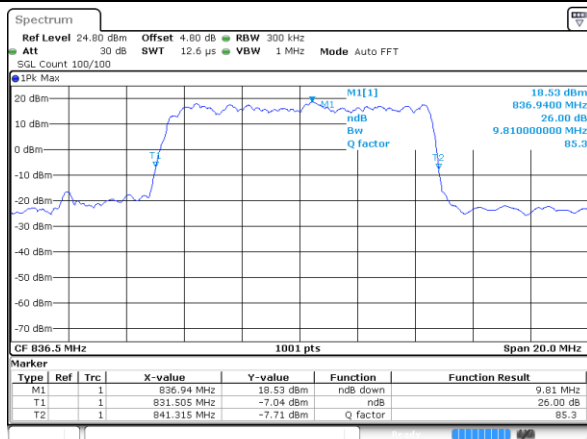
Lowest Channel / 10MHz / QPSK



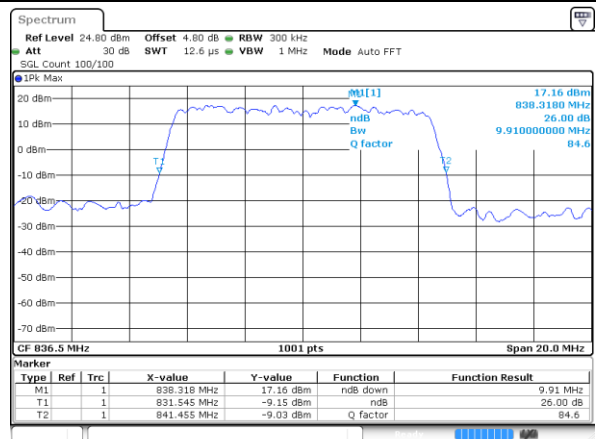
Lowest Channel / 10MHz / 16QAM



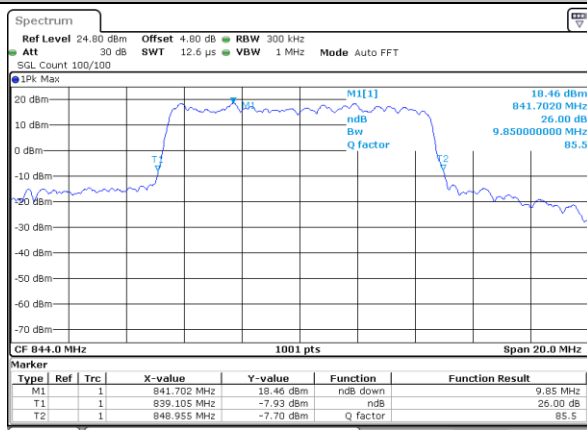
Middle Channel / 10MHz / QPSK



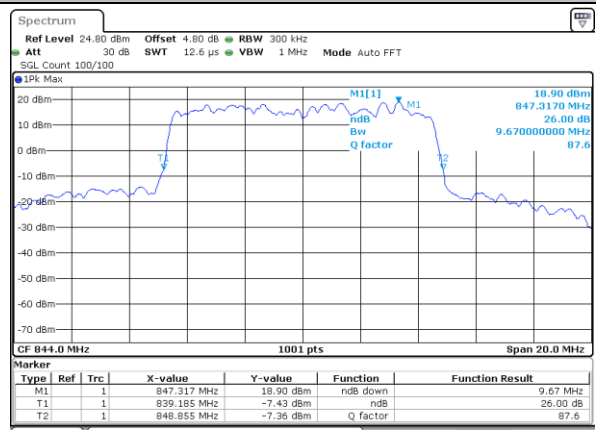
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



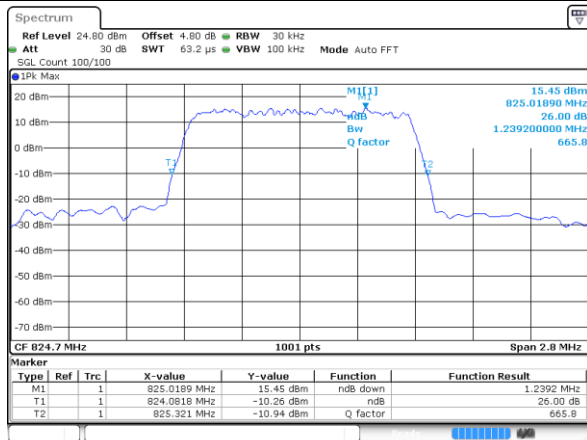
Highest Channel / 10MHz / 16QAM





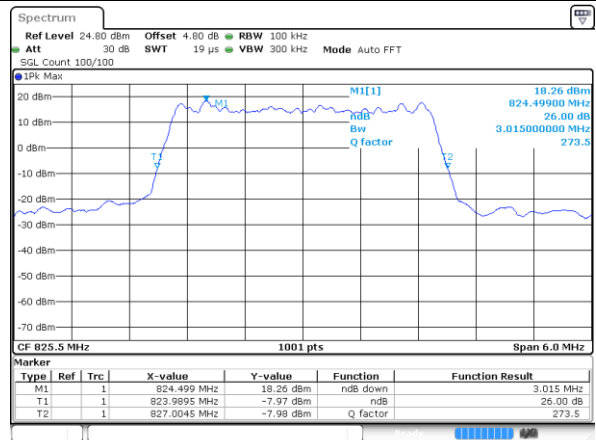
LTE Band 5

Lowest Channel / 1.4MHz / 64QAM



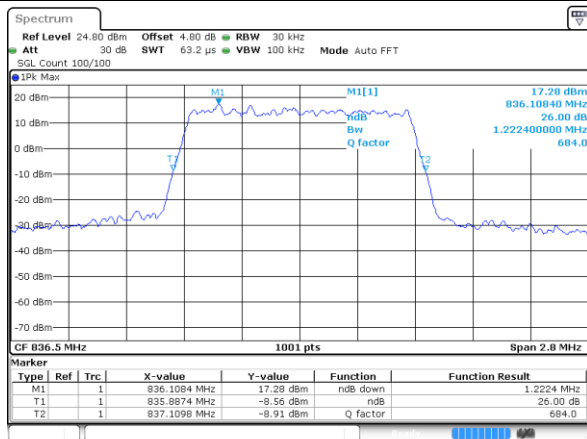
Date: 31.OCT.2020 00:51:35

Lowest Channel / 3MHz / 64QAM



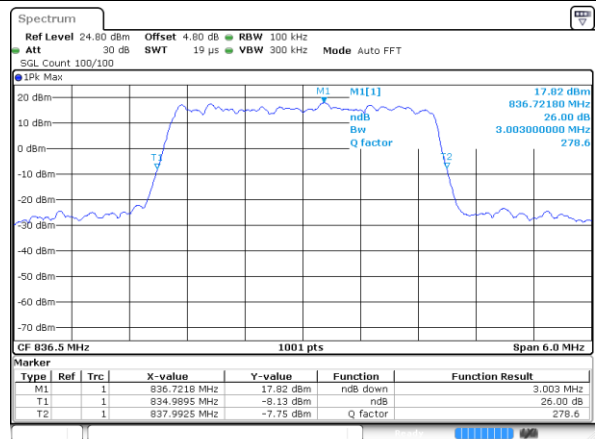
Date: 31.OCT.2020 00:18:40

Middle Channel / 1.4MHz / 64QAM



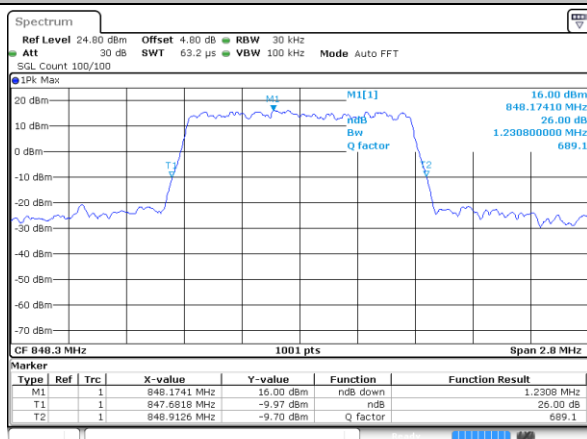
Date: 31.OCT.2020 00:13:51

Middle Channel / 3MHz / 64QAM



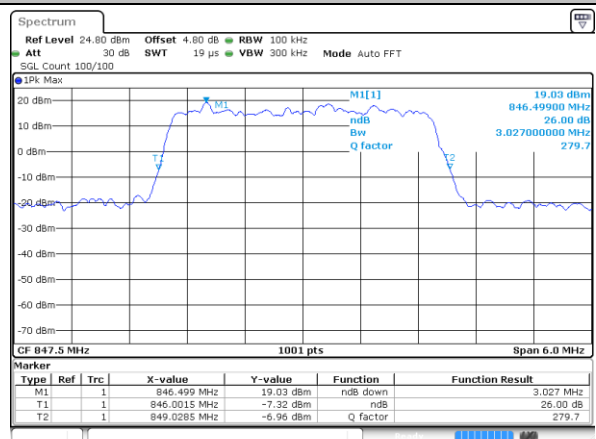
Date: 31.OCT.2020 00:24:03

Highest Channel / 1.4MHz / 64QAM



Date: 31.OCT.2020 00:14:11

Highest Channel / 3MHz / 64QAM

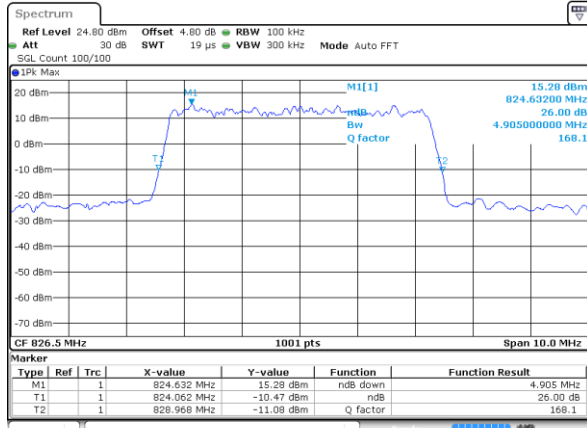


Date: 31.OCT.2020 00:24:23



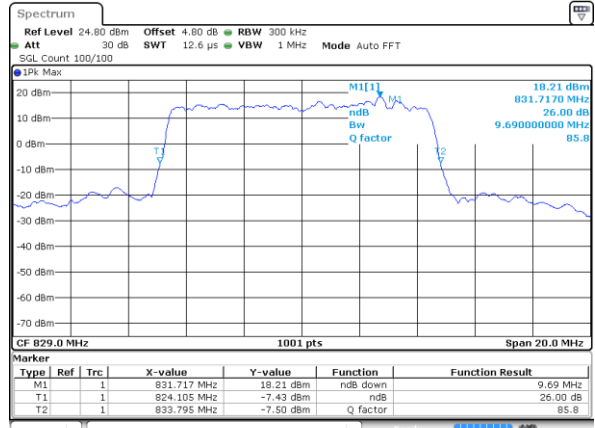
LTE Band 5

Lowest Channel / 5MHz / 64QAM



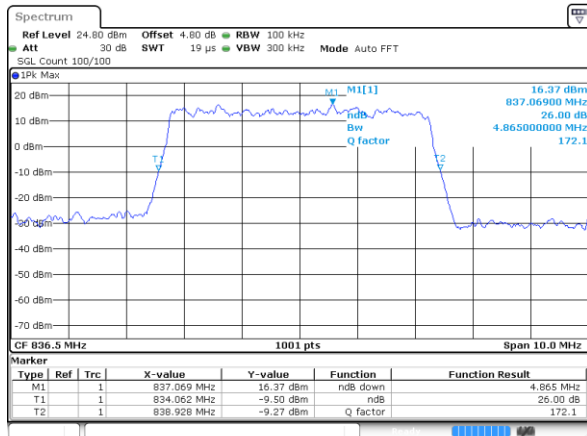
Date: 31.OCT.2020 00:28:52

Lowest Channel / 10MHz / 64QAM



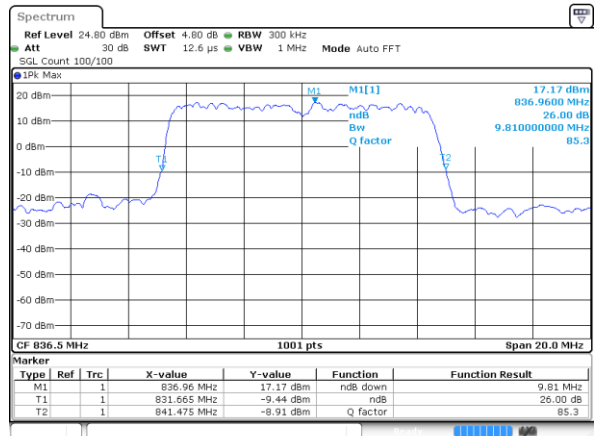
Date: 31.OCT.2020 00:39:04

Middle Channel / 5MHz / 64QAM



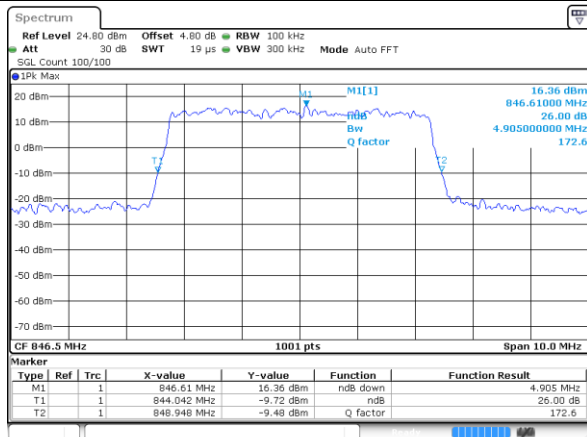
Date: 31.OCT.2020 00:34:15

Middle Channel / 10MHz / 64QAM



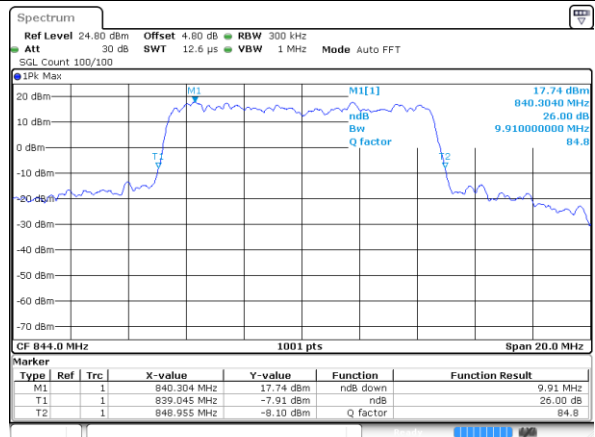
Date: 31.OCT.2020 00:44:27

Highest Channel / 5MHz / 64QAM



Date: 31.OCT.2020 00:34:35

Highest Channel / 10MHz / 64QAM

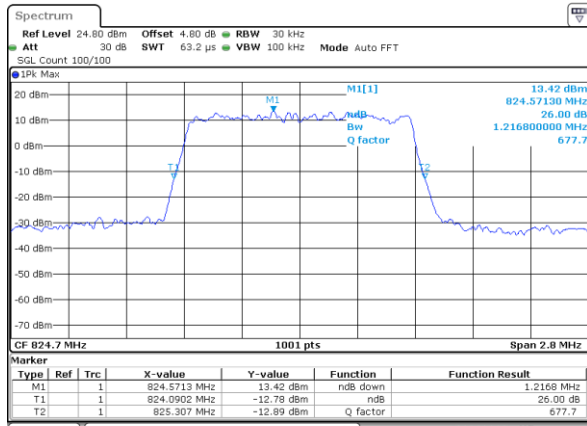


Date: 31.OCT.2020 00:44:47



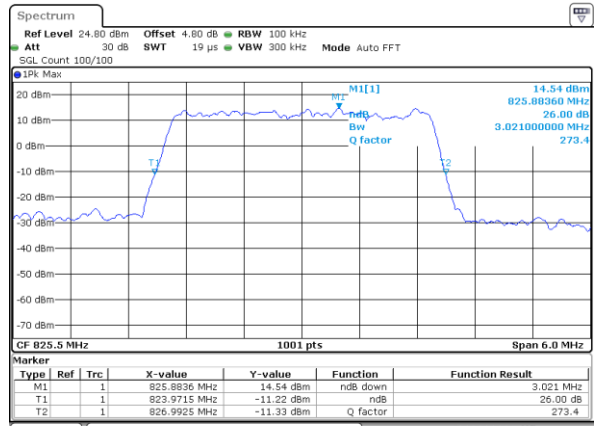
LTE Band 5

Lowest Channel / 1.4MHz / 256QAM



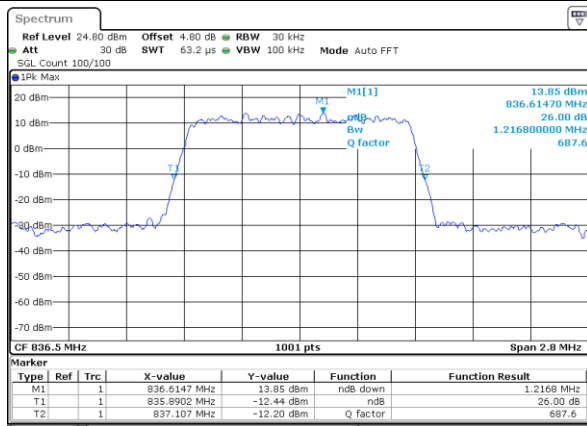
Date: 12.NOV.2020 17:34:05

Lowest Channel / 3MHz / 256QAM



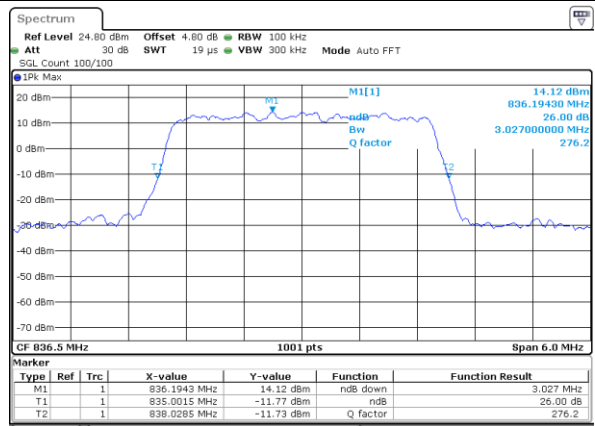
Date: 12.NOV.2020 17:47:43

Middle Channel / 1.4MHz / 256QAM



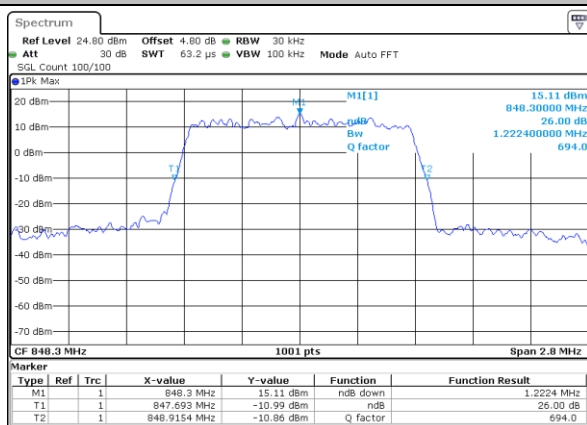
Date: 12.NOV.2020 17:48:12

Middle Channel / 3MHz / 256QAM



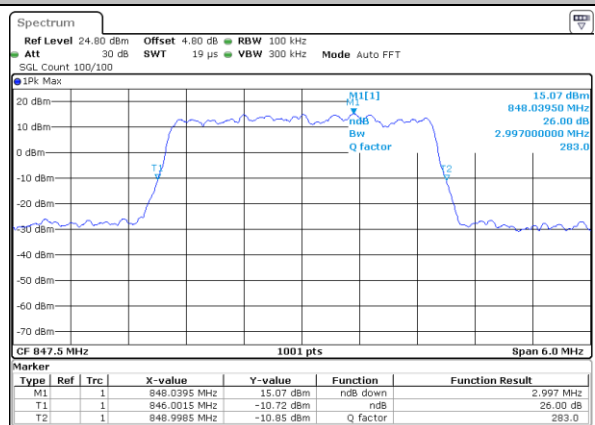
Date: 12.NOV.2020 17:57:41

Highest Channel / 1.4MHz / 256QAM



Date: 12.NOV.2020 17:41:31

Highest Channel / 3MHz / 256QAM

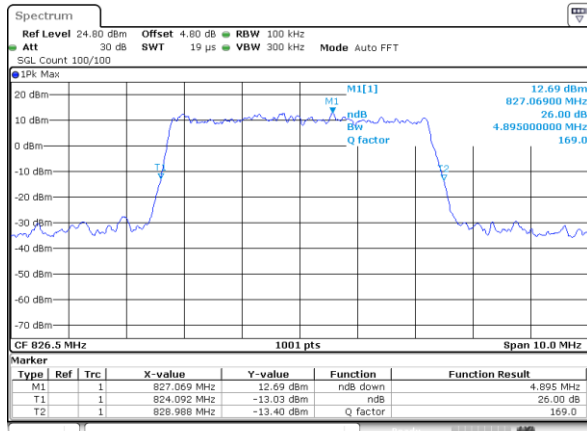


Date: 12.NOV.2020 17:59:24



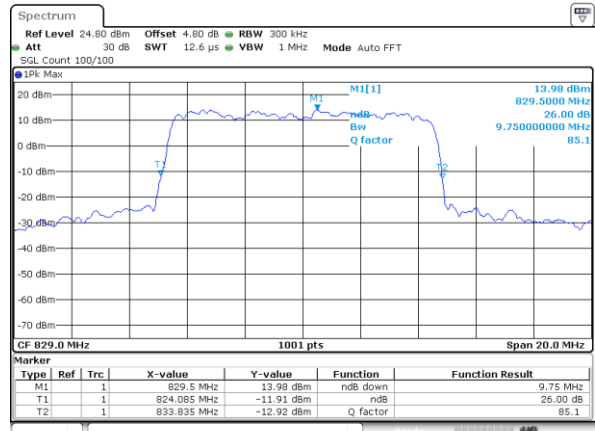
LTE Band 5

Lowest Channel / 5MHz / 256QAM



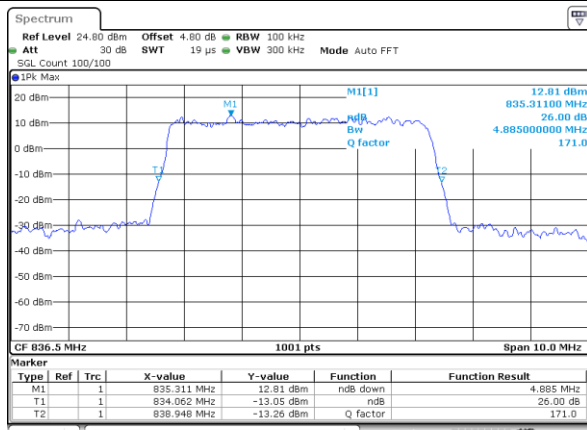
Date: 12.NOV.2020 18:05:26

Lowest Channel / 10MHz / 256QAM



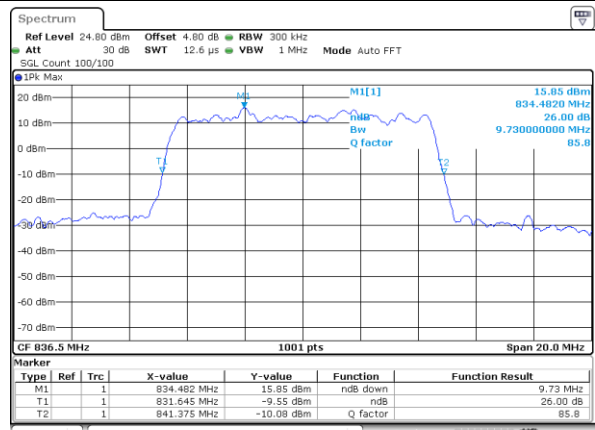
Date: 12.NOV.2020 18:15:23

Middle Channel / 5 MHz / 256QAM



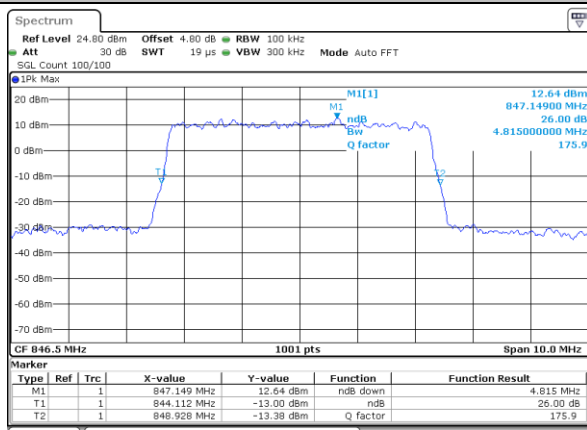
Date: 12.NOV.2020 18:08:53

Middle Channel / 10MHz / 256QAM



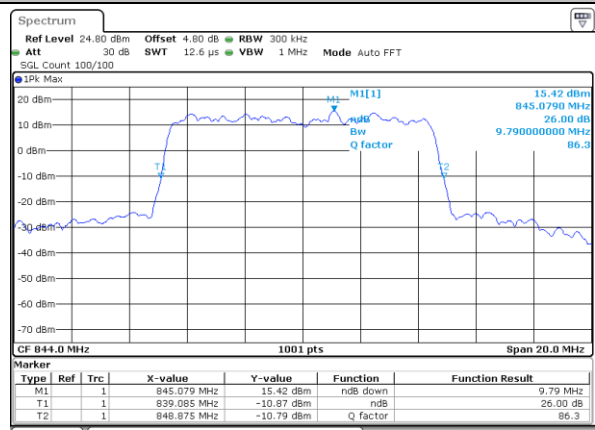
Date: 12.NOV.2020 18:19:09

Highest Channel / 5MHz / 256QAM



Date: 12.NOV.2020 18:09:50

Highest Channel / 10MHz / 256QAM



Date: 12.NOV.2020 18:20:12

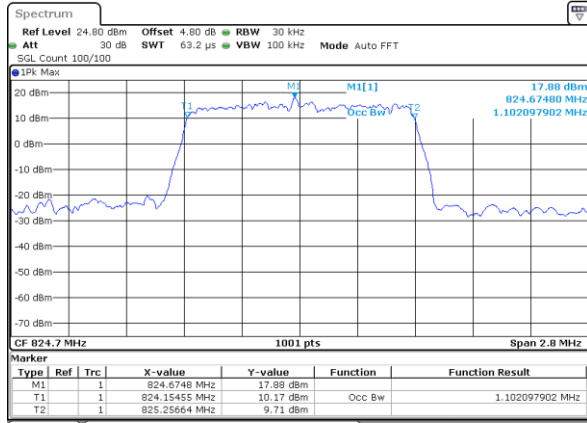
**Occupied Bandwidth**

Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.10	1.09	2.72	2.73	4.50	4.50	9.01	9.03	-	-	-	-
Middle CH	1.09	1.08	2.73	2.72	4.50	4.45	9.01	8.99	-	-	-	-
Highest CH	1.09	1.09	2.71	2.71	4.49	4.48	9.01	9.03	-	-	-	-
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz					
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM				
		M		M		M		M				
Lowest CH	1.09	1.09	2.71	2.73	4.51	4.48	9.03	9.03	-	-	-	-
Middle CH	1.09	1.09	2.73	2.73	4.48	4.47	9.01	9.03	-	-	-	-
Highest CH	1.09	1.09	2.75	2.72	4.50	4.51	8.95	9.03	-	-	-	-

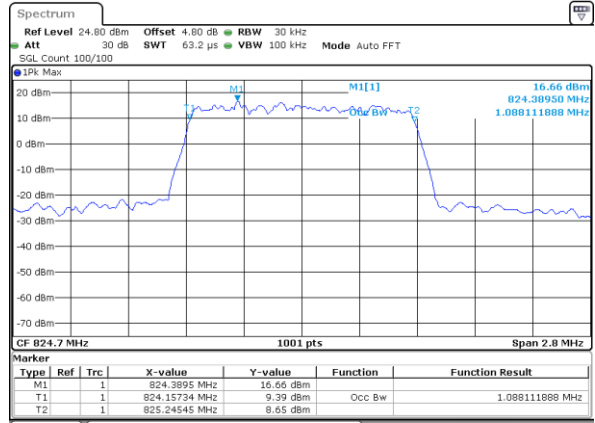


LTE Band 5

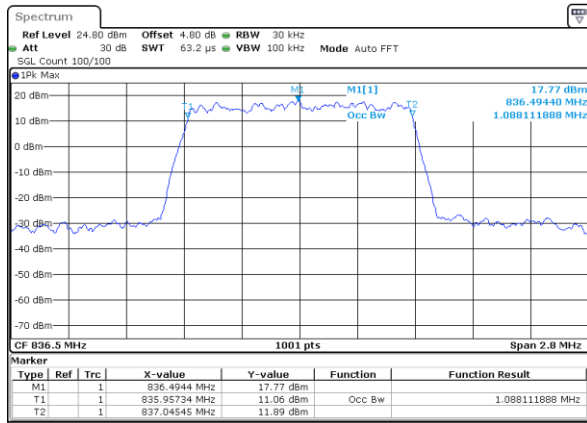
Lowest Channel / 1.4MHz / QPSK



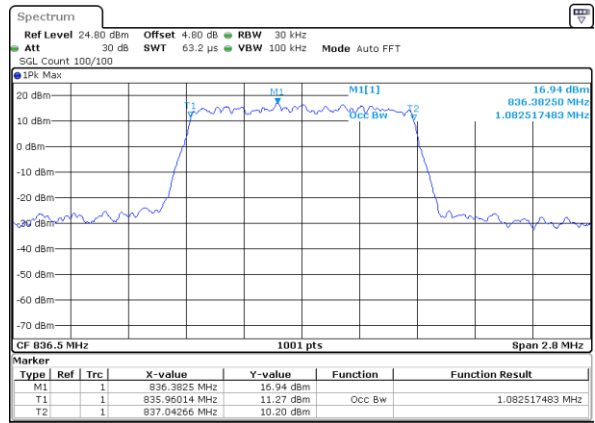
Lowest Channel / 1.4MHz / 16QAM



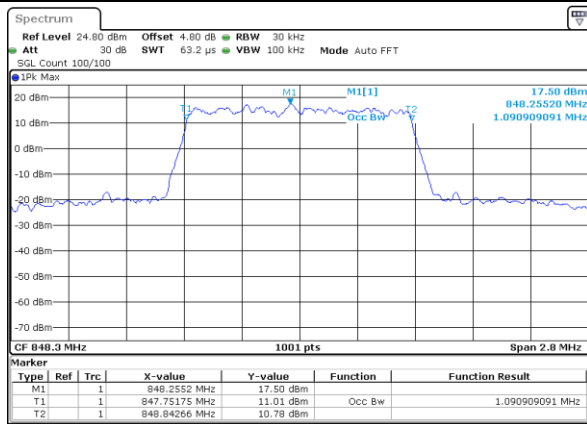
Middle Channel / 1.4MHz / QPSK



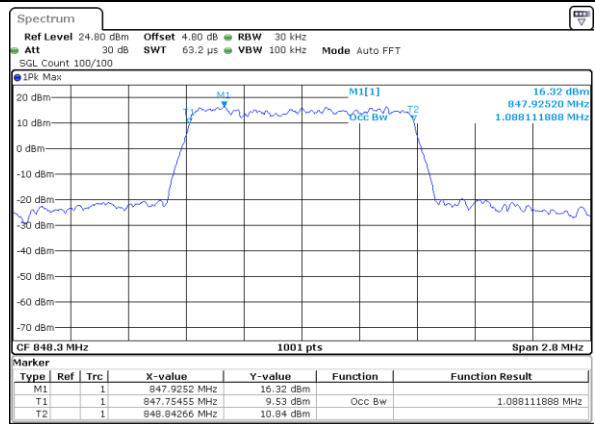
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



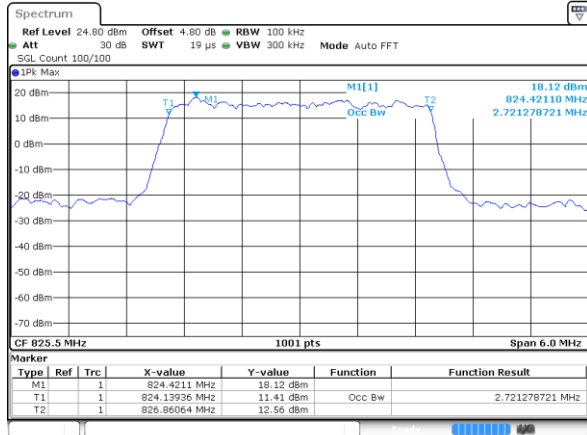
Highest Channel / 1.4MHz / 16QAM



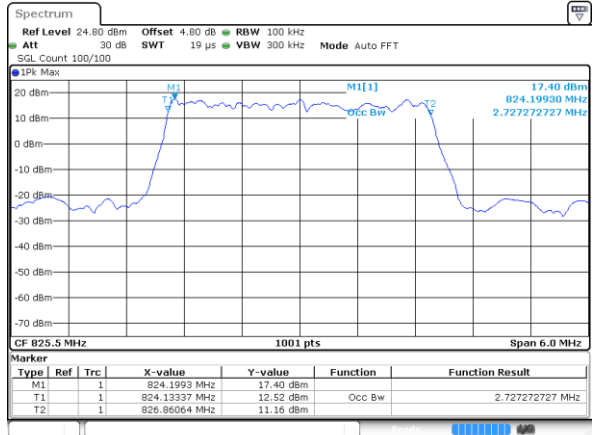


LTE Band 5

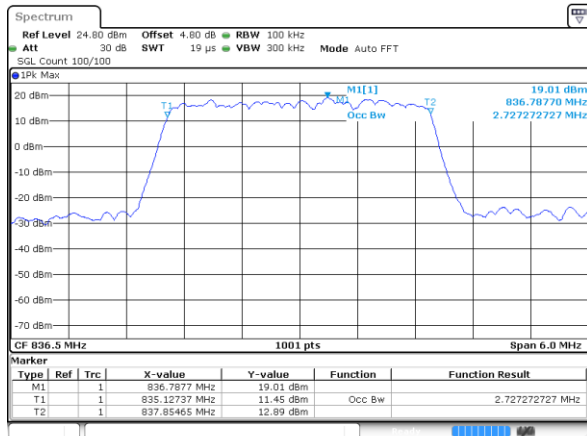
Lowest Channel / 3MHz / QPSK



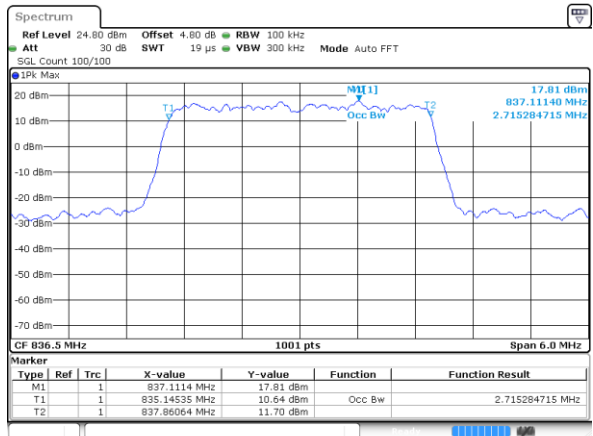
Lowest Channel / 3MHz / 16QAM



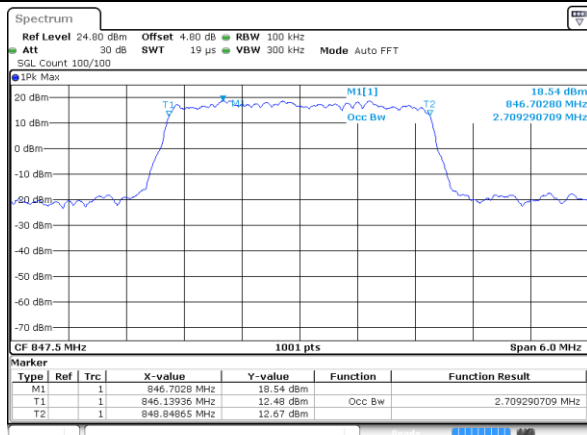
Middle Channel / 3MHz / QPSK



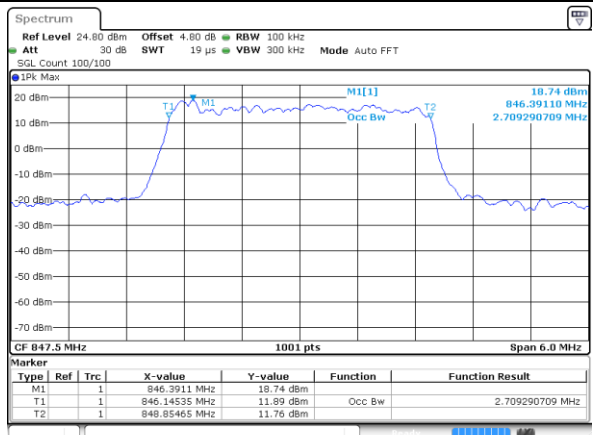
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



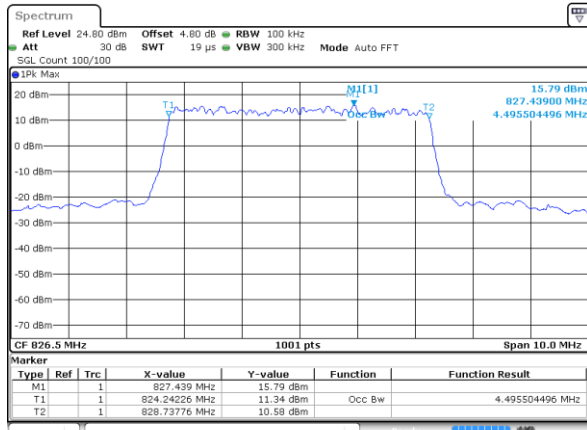
Highest Channel / 3MHz / 16QAM





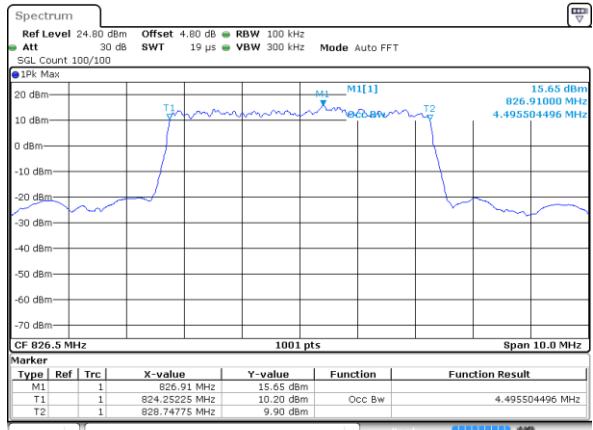
LTE Band 5

Lowest Channel / 5MHz / QPSK



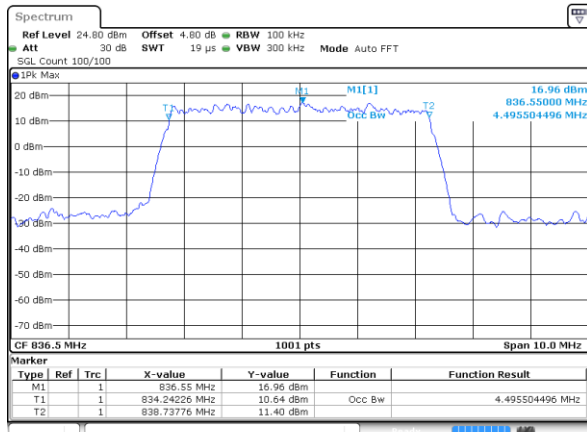
Date: 30 OCT 2020 23:27:18

Lowest Channel / 5MHz / 16QAM



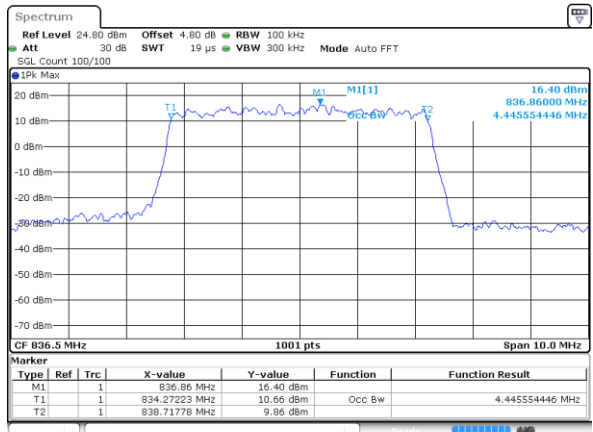
Date: 30 OCT 2020 23:27:28

Middle Channel / 5MHz / QPSK



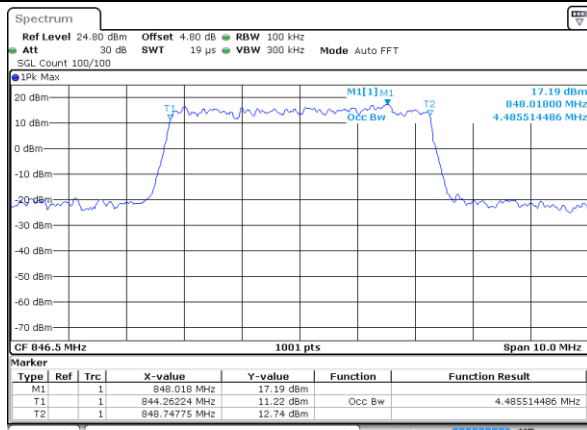
Date: 30 OCT 2020 23:38:16

Middle Channel / 5MHz / 16QAM



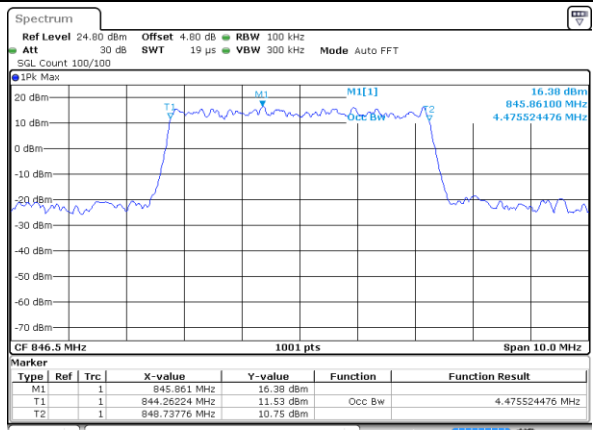
Date: 30 OCT 2020 23:38:26

Highest Channel / 5MHz / QPSK



Date: 30 OCT 2020 23:38:45

Highest Channel / 5MHz / 16QAM

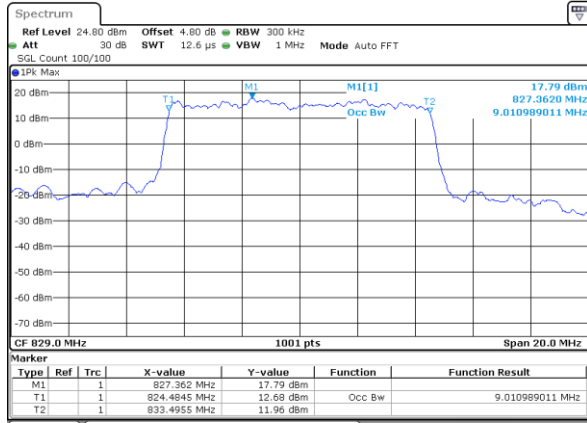


Date: 30 OCT 2020 23:38:55



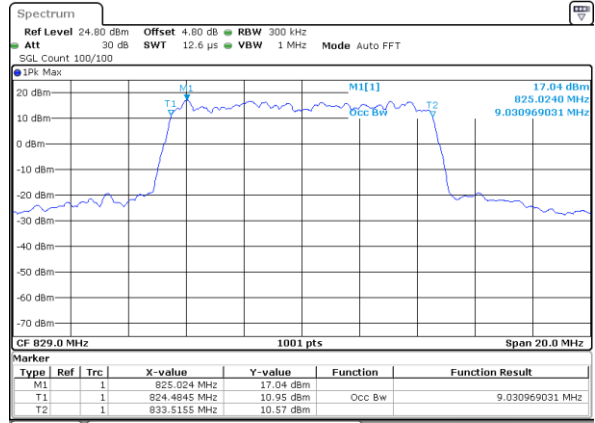
LTE Band 5

Lowest Channel / 10MHz / QPSK



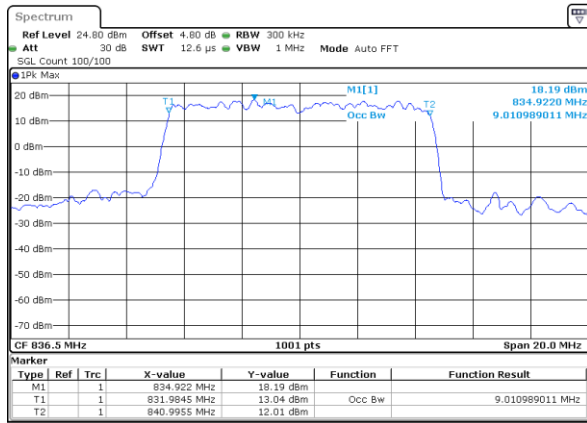
Date: 30 OCT 2020 23:47:43

Lowest Channel / 10MHz / 16QAM



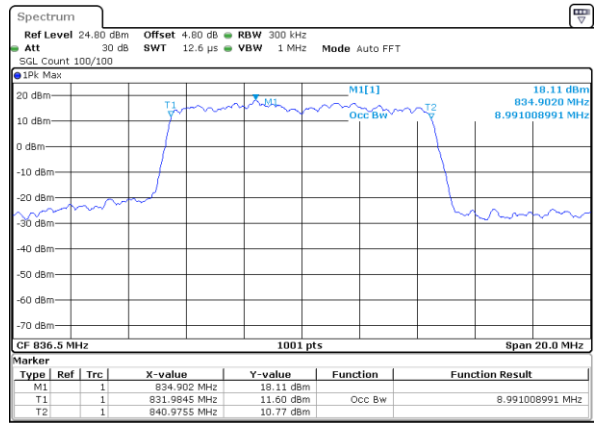
Date: 30 OCT 2020 23:47:53

Middle Channel / 10MHz / QPSK



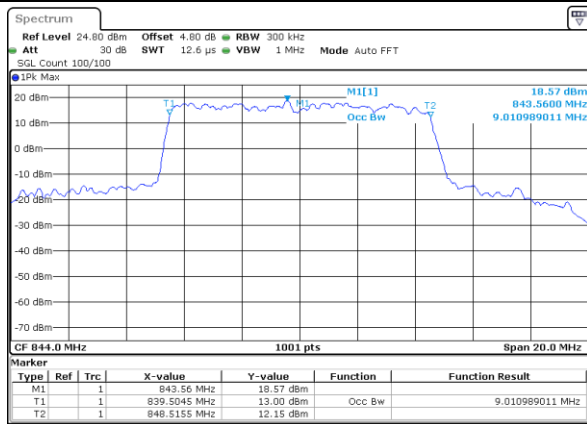
Date: 30 OCT 2020 23:56:41

Middle Channel / 10MHz / 16QAM



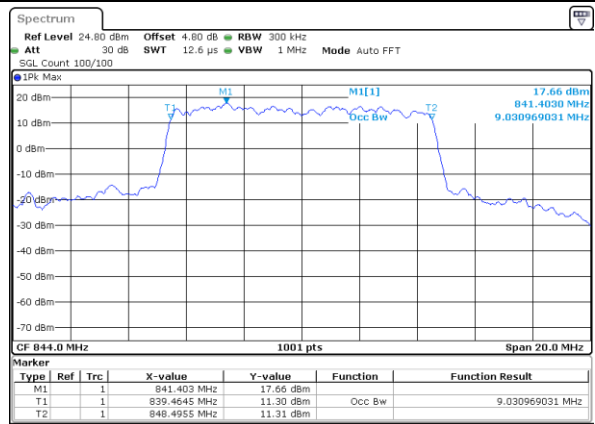
Date: 30 OCT 2020 23:56:51

Highest Channel / 10MHz / QPSK



Date: 30 OCT 2020 23:59:09

Highest Channel / 10MHz / 16QAM

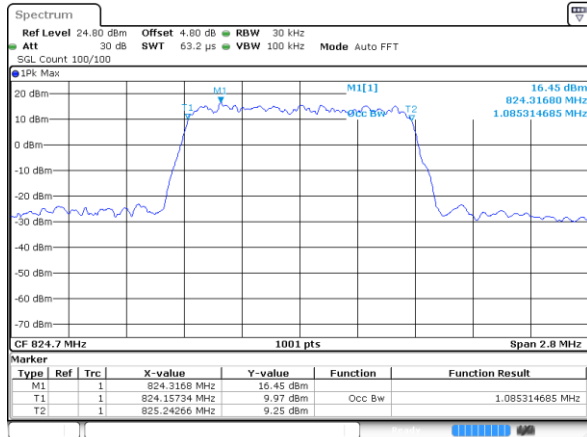


Date: 30 OCT 2020 23:59:19

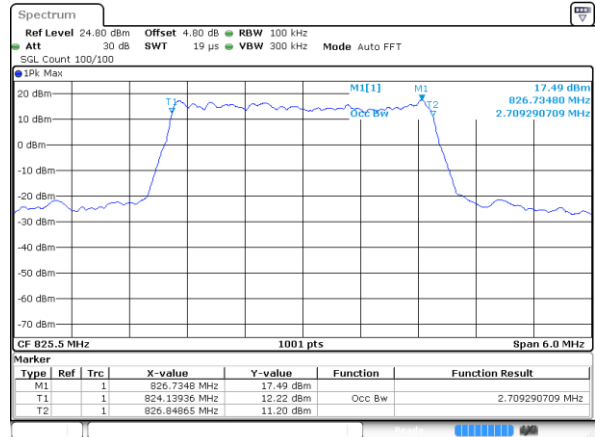


LTE Band 5

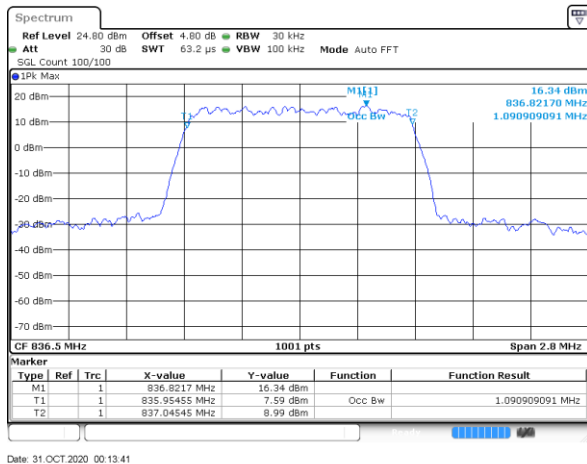
Lowest Channel / 1.4MHz / 64QAM



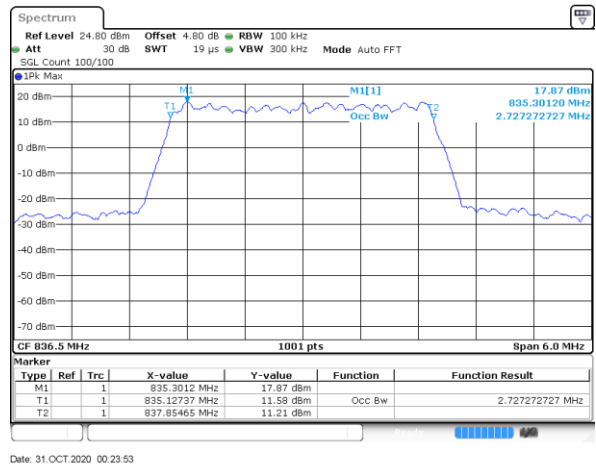
Lowest Channel / 3MHz / 64QAM



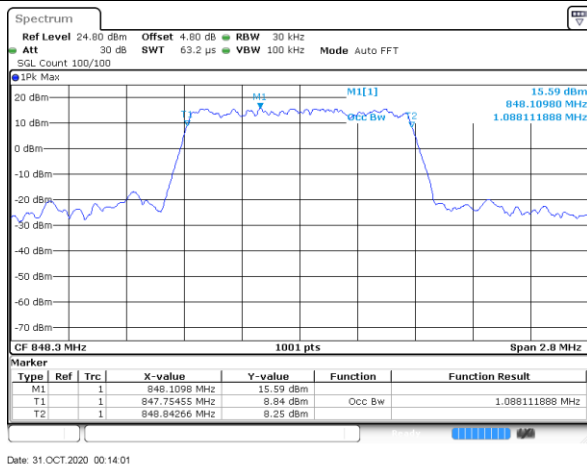
Middle Channel / 1.4MHz / 64QAM



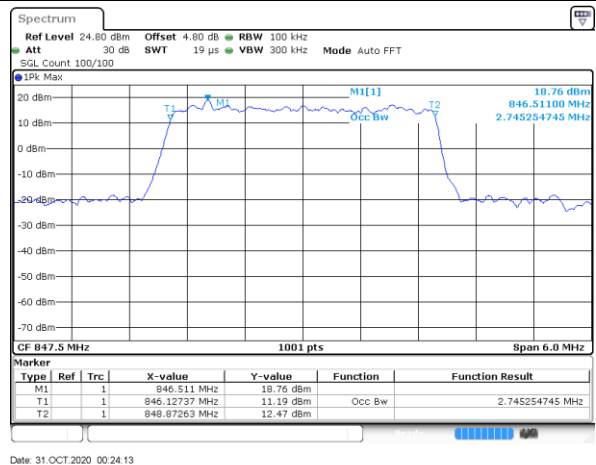
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



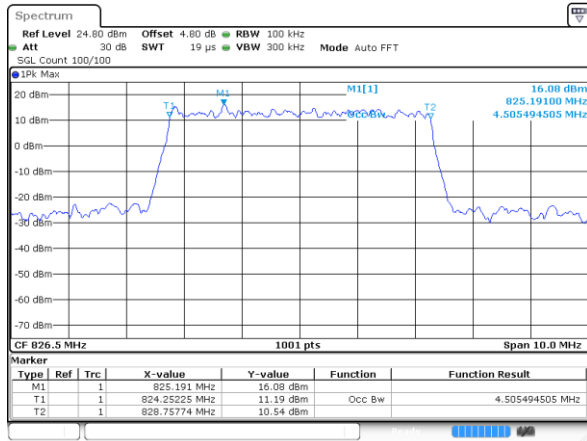
Highest Channel / 3MHz / 64QAM



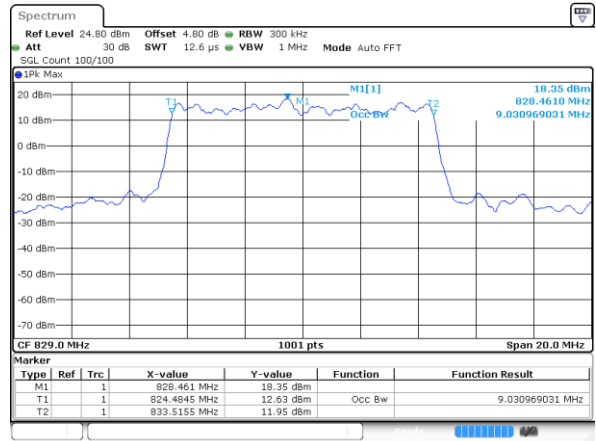


LTE Band 5

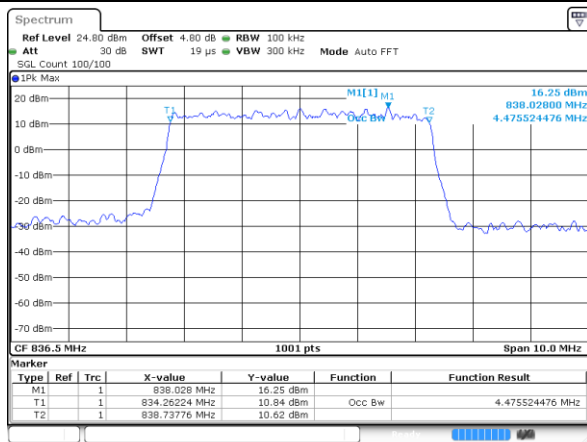
Lowest Channel / 5MHz / 64QAM



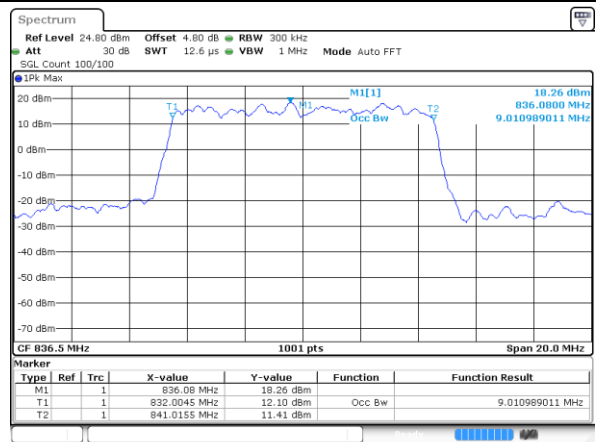
Lowest Channel / 10MHz / 64QAM



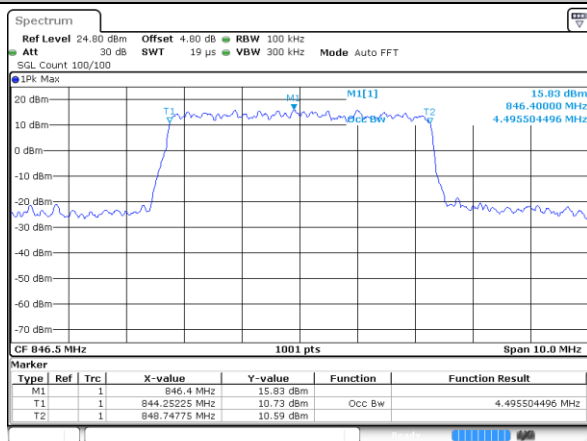
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

