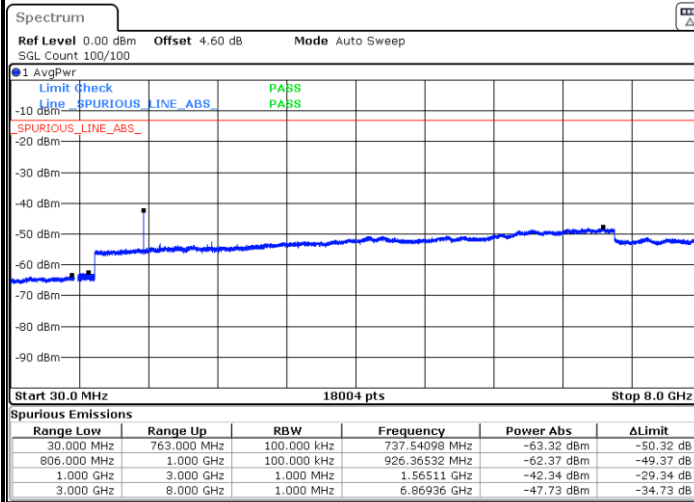




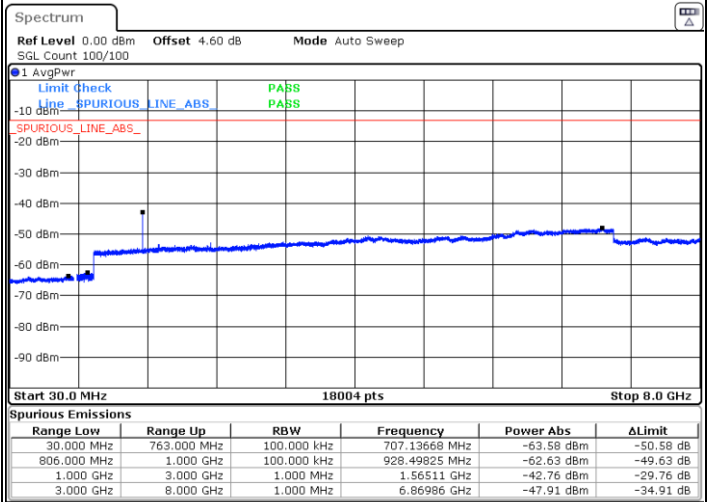
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 7 JUN.2020 11:57:16

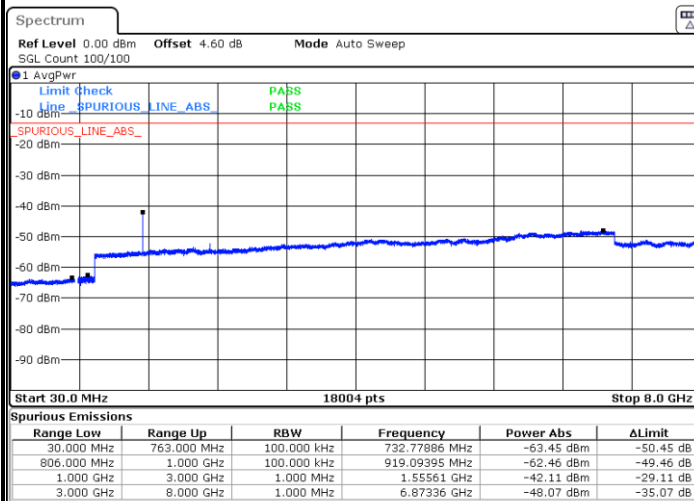
Highest Channel / 16QAM



Date: 7 JUN.2020 11:56:20

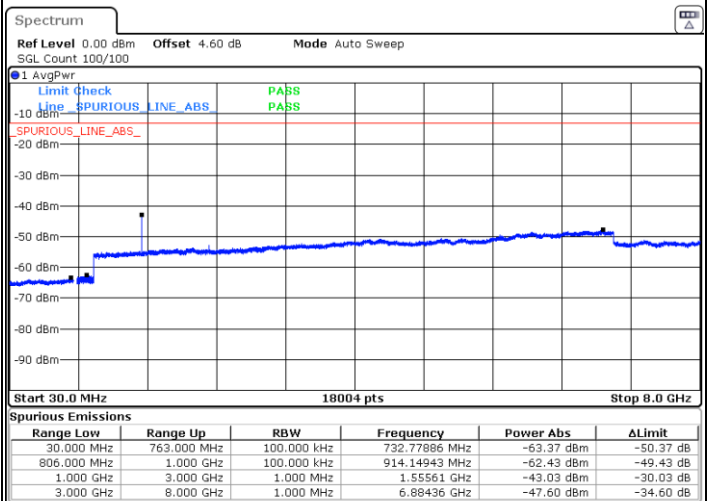
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 7 JUN.2020 11:58:11

Middle Channel / 16QAM

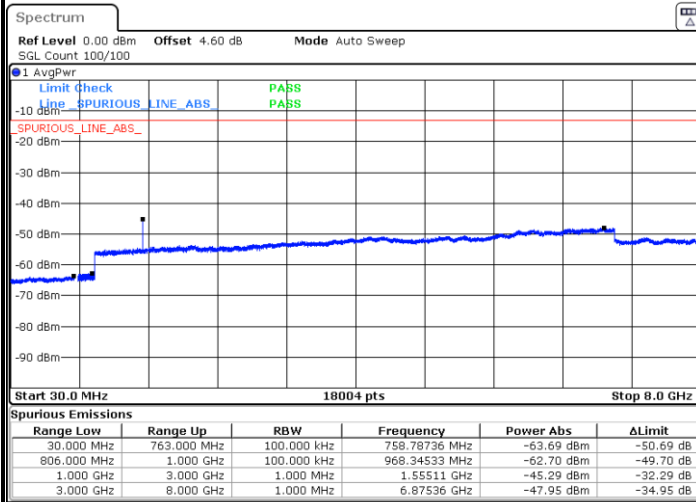


Date: 7 JUN.2020 11:59:07



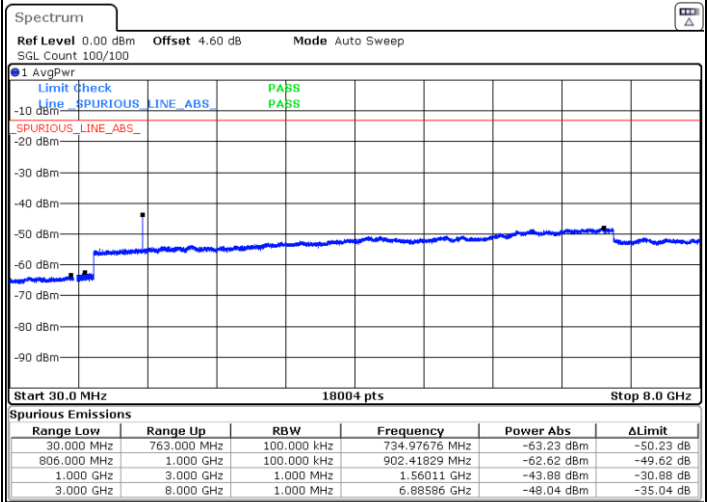
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



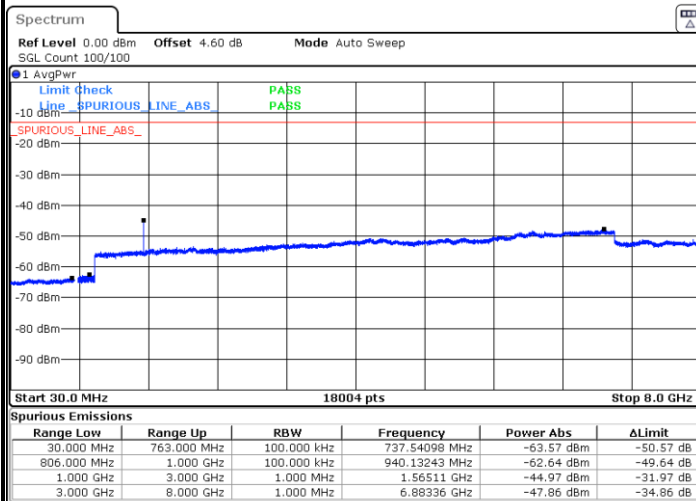
Date: 7.JUN.2020 12:19:43

Middle Channel / 64QAM



Date: 7.JUN.2020 12:20:39

Highest Channel / 64QAM

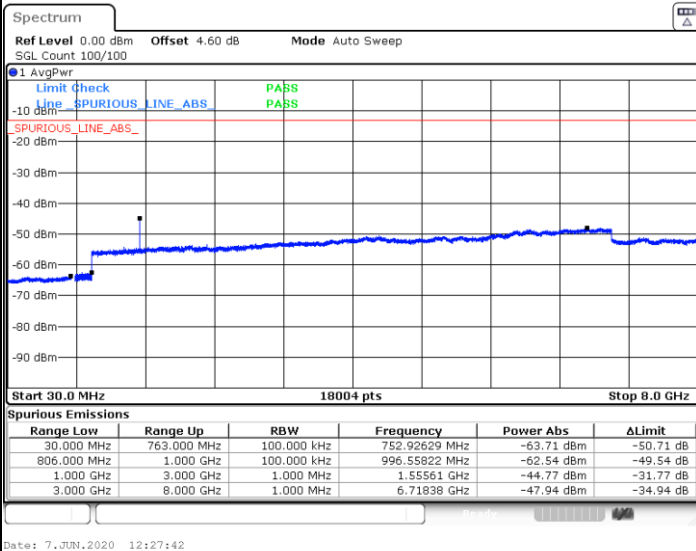


Date: 7.JUN.2020 12:21:34



LTE Band 13 / 10MHz

Middle Channel / 64QAM



**Frequency Stability**

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0046	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

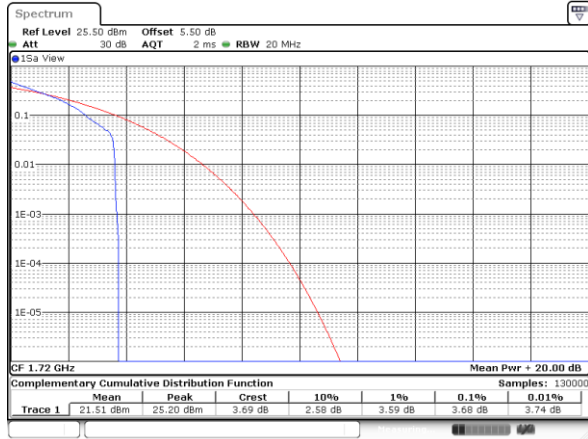
Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.68	4.87	5.36	5.97	PASS
Middle CH	3.83	5.07	4.84	5.97	
Highest CH	3.54	5.10	5.30	6.03	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.35	6.43	-	-	PASS
Middle CH	6.84	6.52	-	-	
Highest CH	6.35	6.55	-	-	

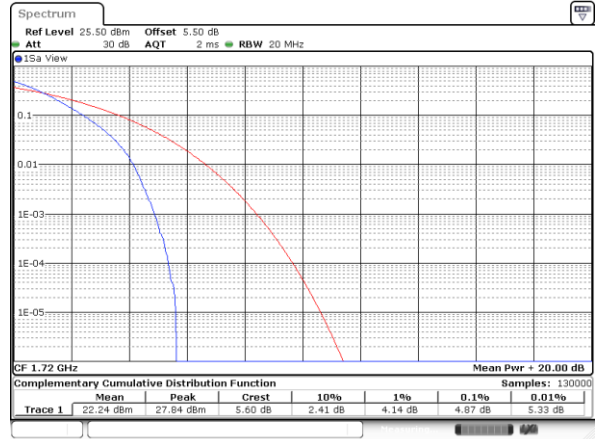


LTE Band 66 / 20MHz / QPSK

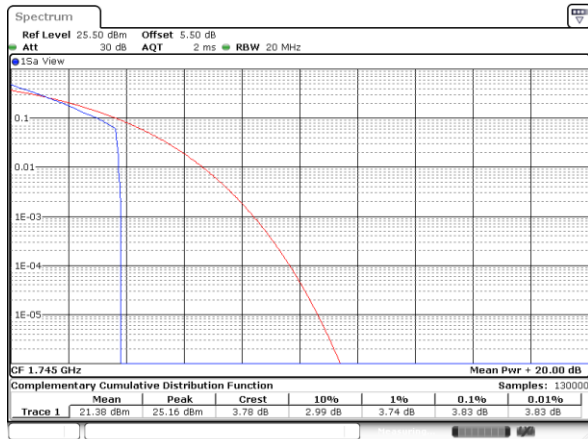
Lowest Channel / 1RB



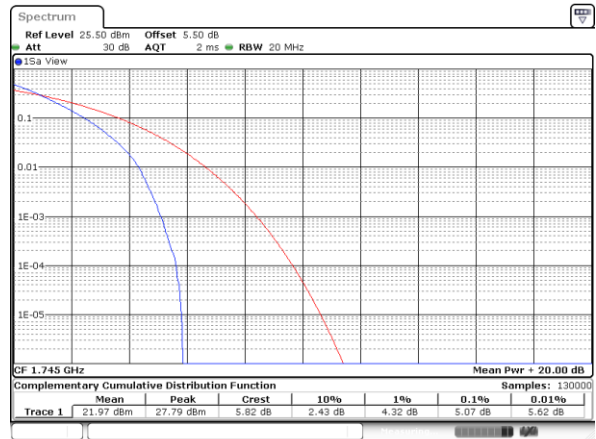
Lowest Channel / Full RB



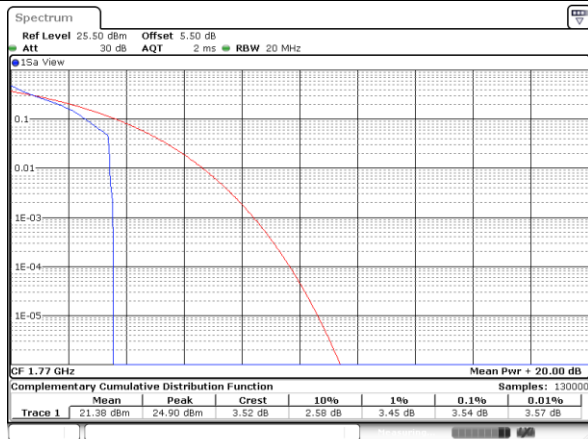
Middle Channel / 1RB



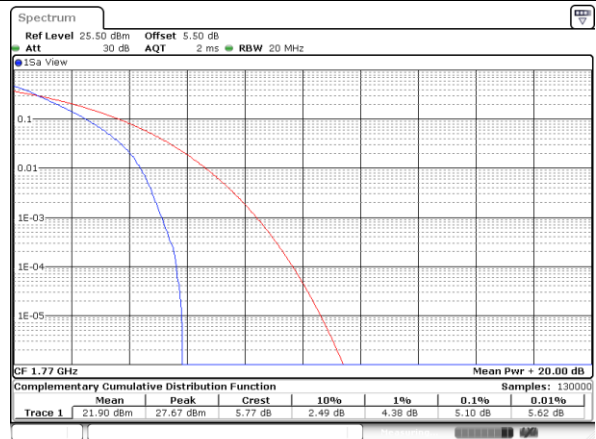
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





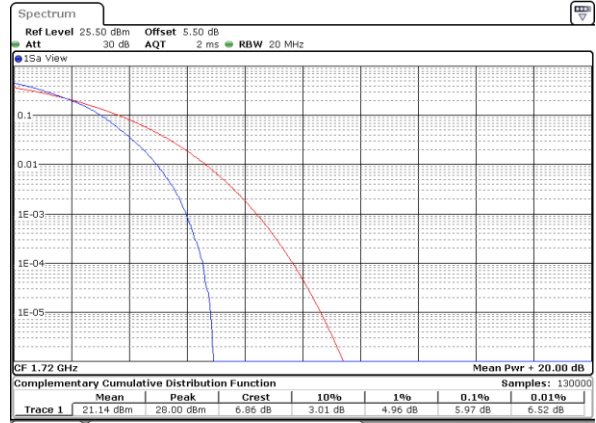
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



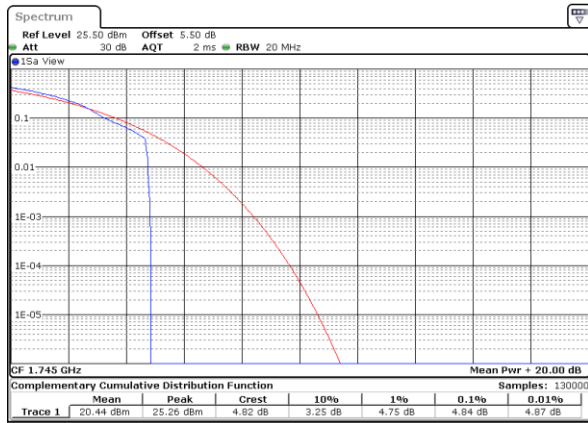
Date: 13 JUN 2020 02:22:41

Lowest Channel / Full RB



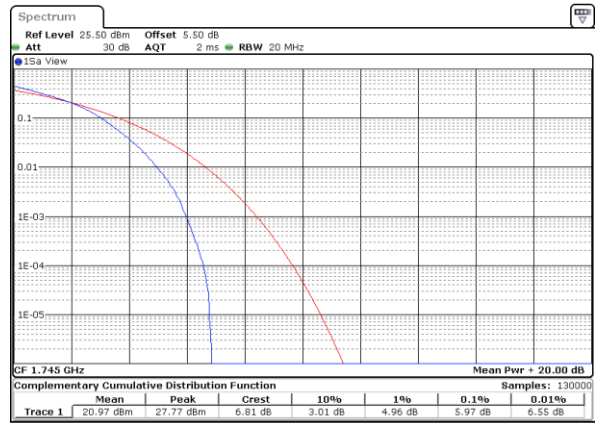
Date: 13 JUN 2020 02:20:12

Middle Channel / 1RB



Date: 13 JUN 2020 02:25:52

Middle Channel / Full RB



Date: 13 JUN 2020 02:28:19

Highest Channel / 1RB



Date: 13 JUN 2020 02:34:00

Highest Channel / Full RB

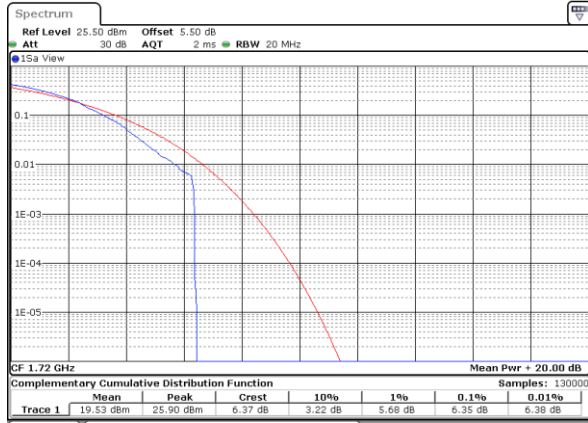


Date: 13 JUN 2020 02:30:37



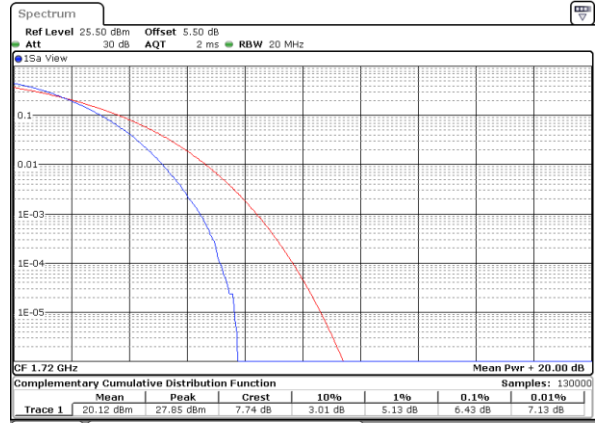
LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



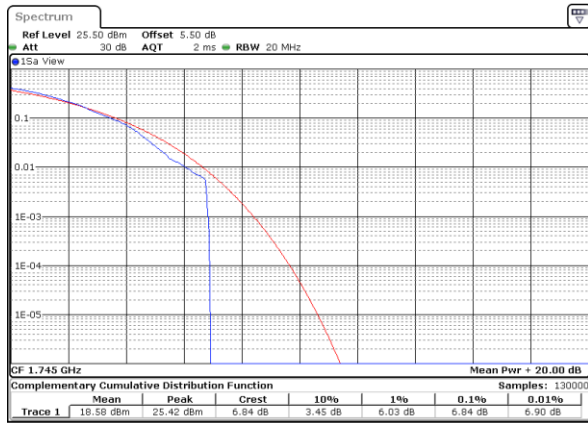
Date: 13 JUN 2020 02:21:36

Lowest Channel / Full RB



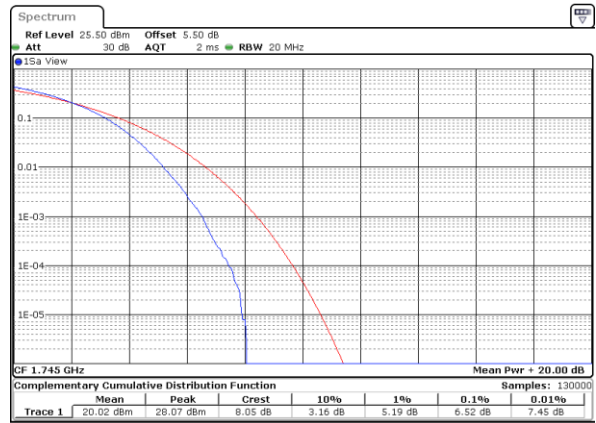
Date: 13 JUN 2020 02:20:52

Middle Channel / 1RB



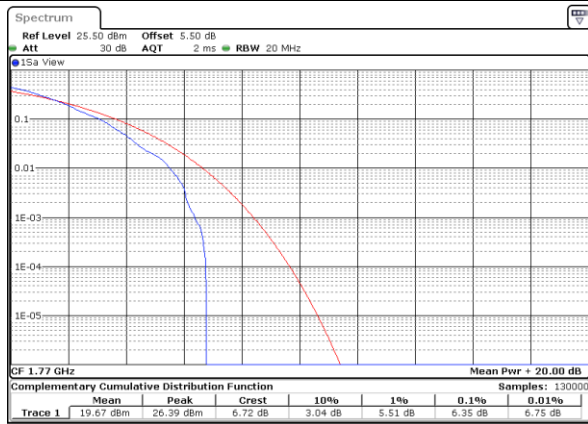
Date: 13 JUN 2020 02:26:52

Middle Channel / Full RB



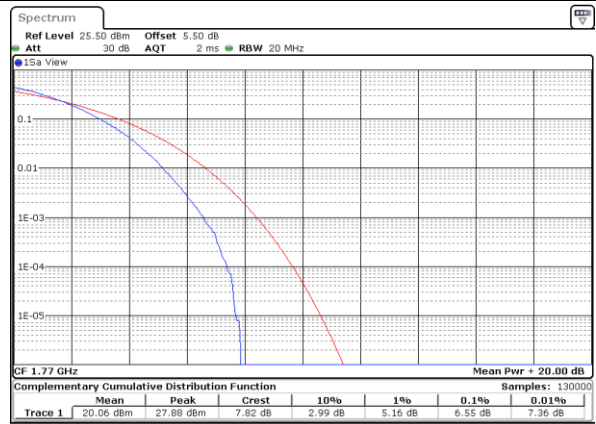
Date: 13 JUN 2020 02:27:46

Highest Channel / 1RB



Date: 13 JUN 2020 02:34:57

Highest Channel / Full RB



Date: 13 JUN 2020 02:31:21

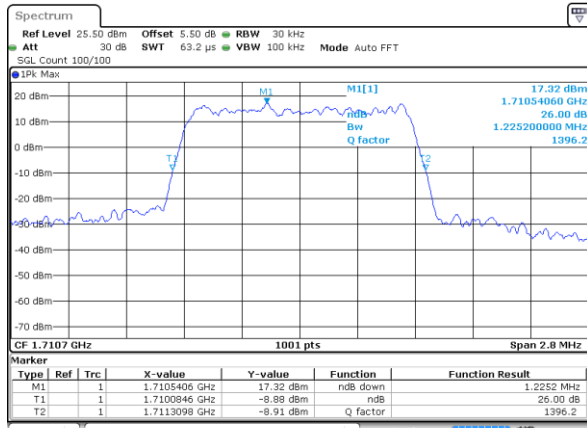
**26dB Bandwidth**

Mode	LTE Band 66 : 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	1.23	1.23	3.02	3.03	4.87	4.90	9.83	9.77	14.12	14.57	20.26	20.14
Middle CH	1.23	1.23	2.97	3.02	4.93	4.94	9.85	9.91	14.30	14.18	20.10	20.14
Highest CH	1.24	1.21	3.05	3.06	4.93	4.87	9.97	9.69	14.54	14.39	20.22	20.26
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.24	-	3.02	-	4.90	-	9.89	-	14.36	-	20.34	-
Middle CH	1.23	-	3.02	-	4.91	-	9.83	-	14.18	-	20.02	-
Highest CH	1.23	-	3.05	-	4.89	-	9.67	-	14.48	-	20.14	-



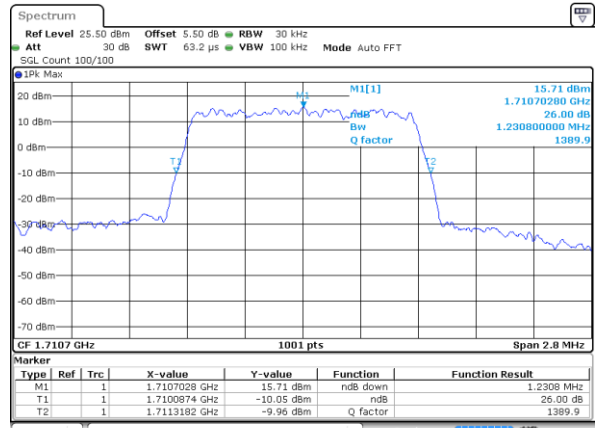
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



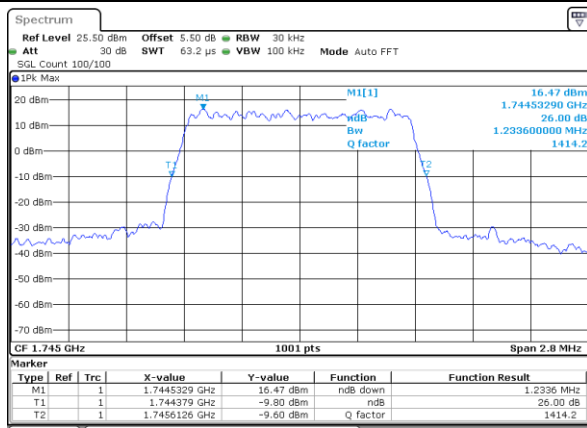
Date: 12 JUN 2020 23:40:56

Lowest Channel / 1.4MHz / 16QAM



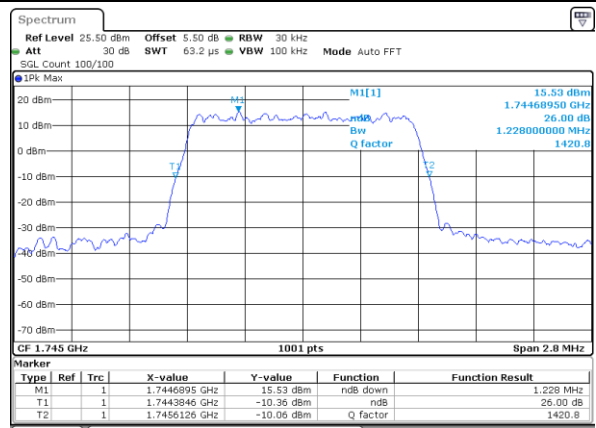
Date: 12 JUN 2020 23:42:56

Middle Channel / 1.4MHz / QPSK



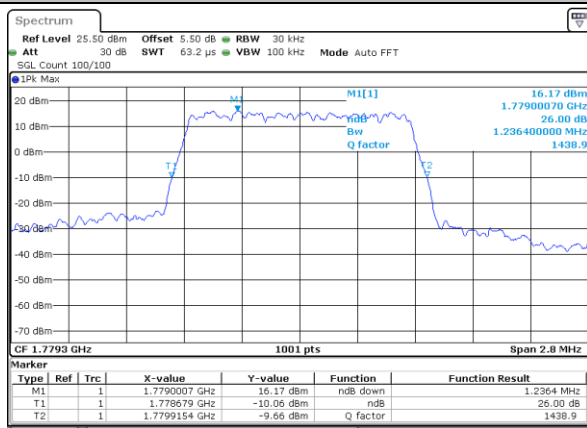
Date: 12 JUN 2020 23:58:09

Middle Channel / 1.4MHz / 16QAM



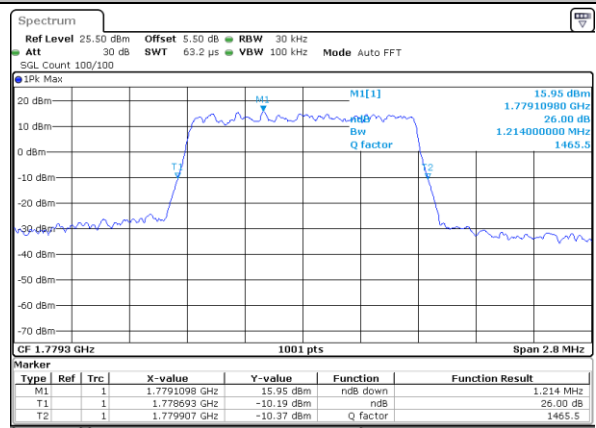
Date: 12 JUN 2020 23:57:48

Highest Channel / 1.4MHz / QPSK



Date: 12 JUN 2020 23:58:40

Highest Channel / 1.4MHz / 16QAM

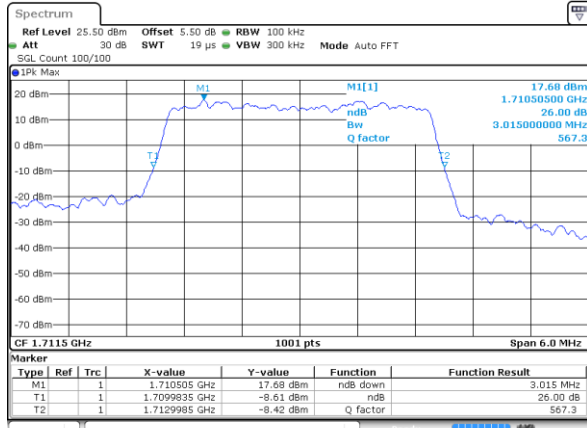


Date: 13 JUN 2020 00:00:06



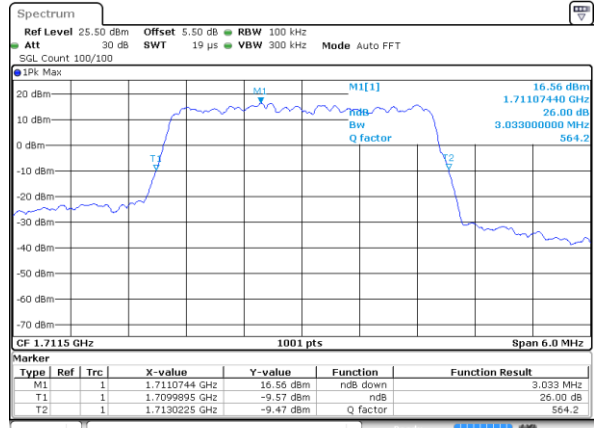
LTE Band 66

Lowest Channel / 3MHz / QPSK



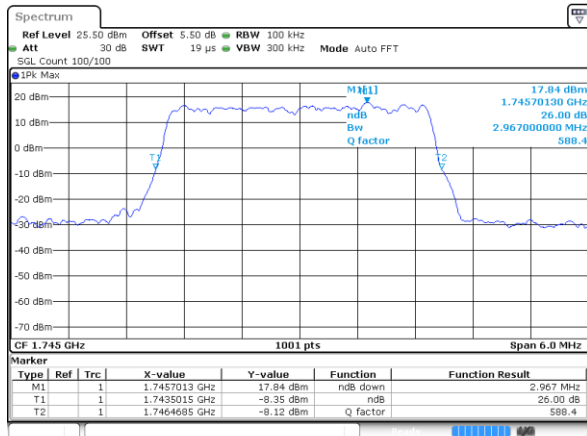
Date: 13 JUN 2020 00:17:07

Lowest Channel / 3MHz / 16QAM



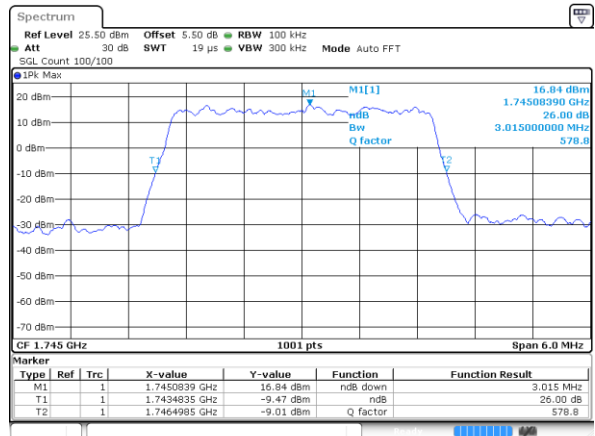
Date: 13 JUN 2020 00:18:06

Middle Channel / 3MHz / QPSK



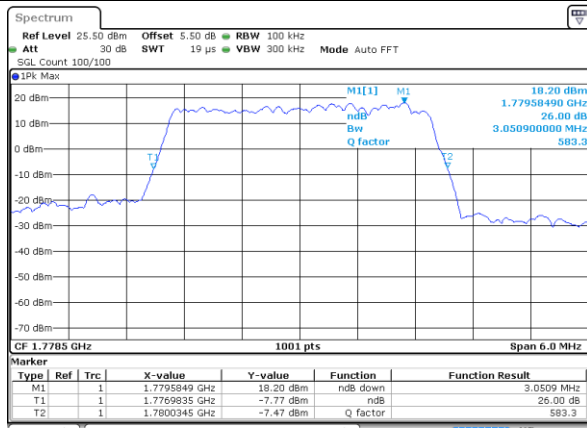
Date: 13 JUN 2020 00:27:28

Middle Channel / 3MHz / 16QAM



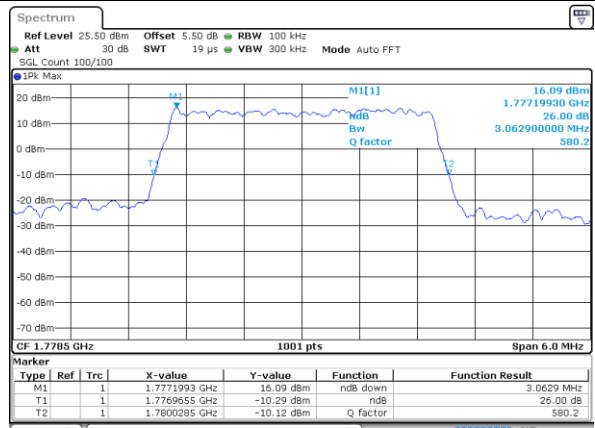
Date: 13 JUN 2020 00:27:07

Highest Channel / 3MHz / QPSK



Date: 13 JUN 2020 00:28:00

Highest Channel / 3MHz / 16QAM

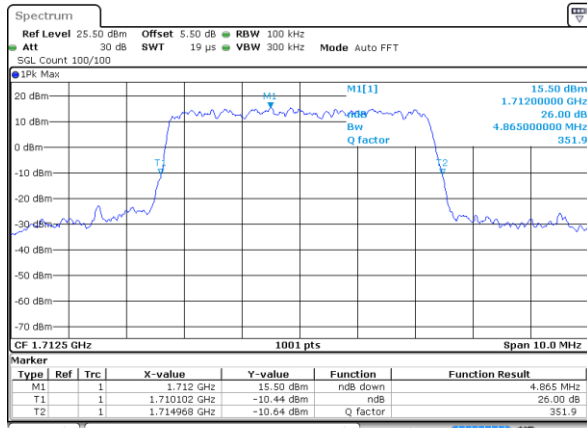


Date: 13 JUN 2020 00:29:14

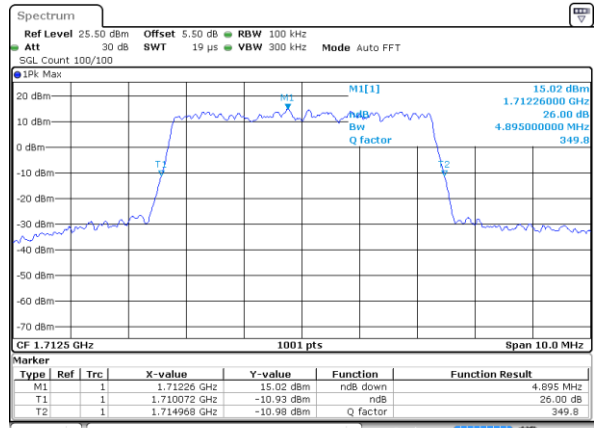


LTE Band 66

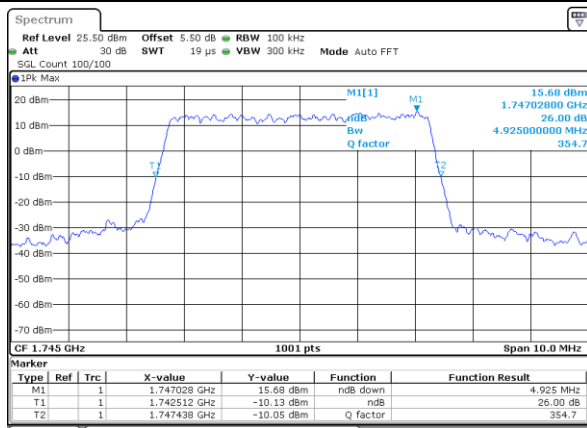
Lowest Channel / 5MHz / QPSK



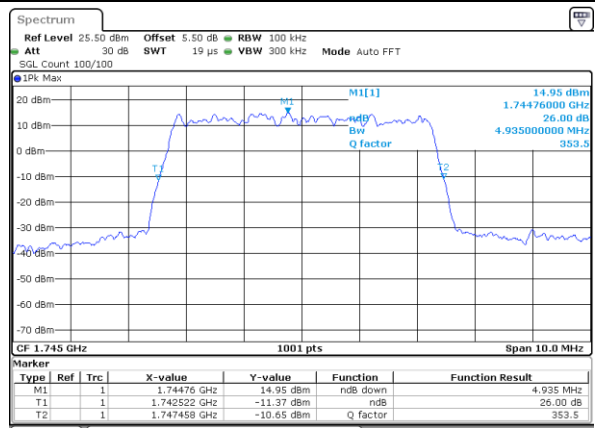
Lowest Channel / 5MHz / 16QAM



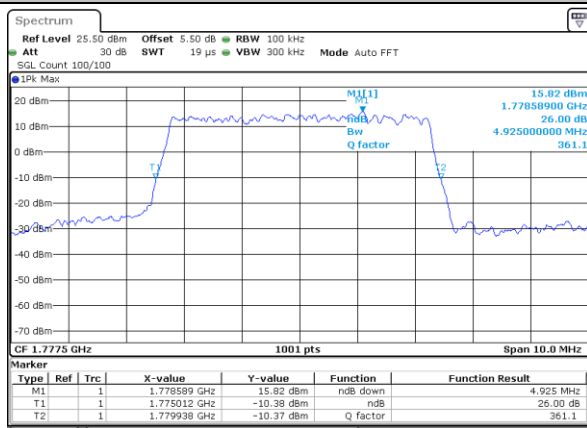
Middle Channel / 5MHz / QPSK



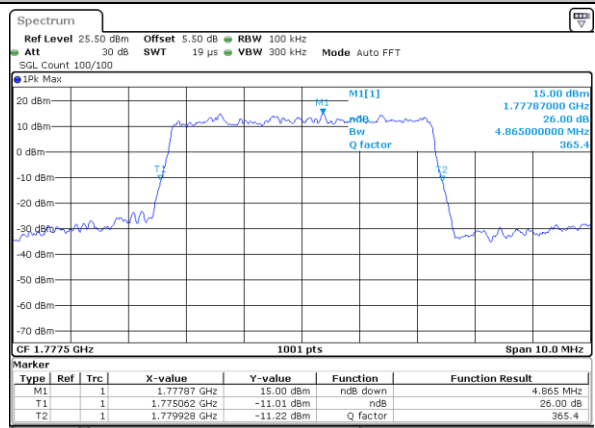
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



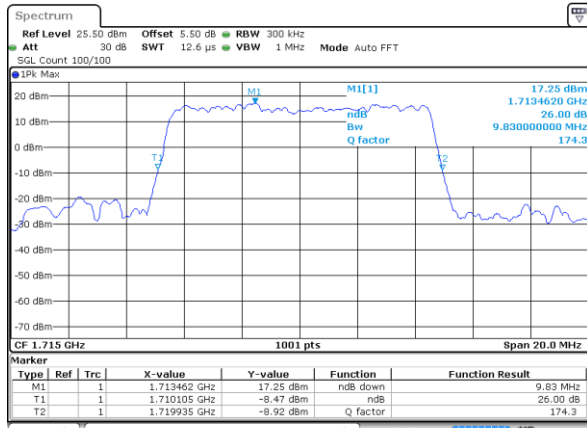
Highest Channel / 5MHz / 16QAM





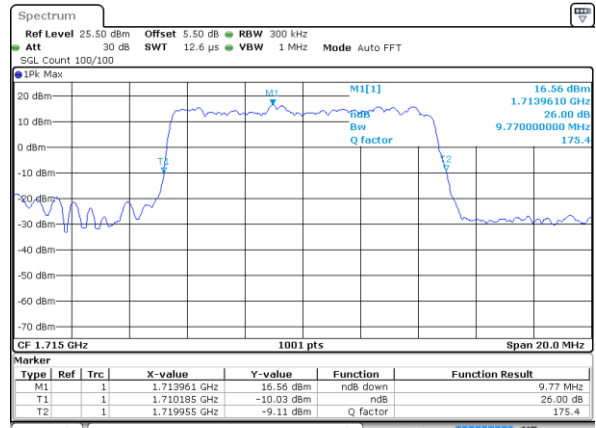
LTE Band 66

Lowest Channel / 10MHz / QPSK



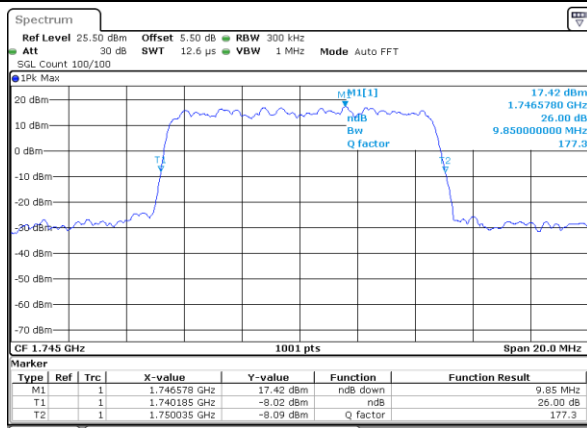
Date: 13 JUN 2020 01:08:58

Lowest Channel / 10MHz / 16QAM



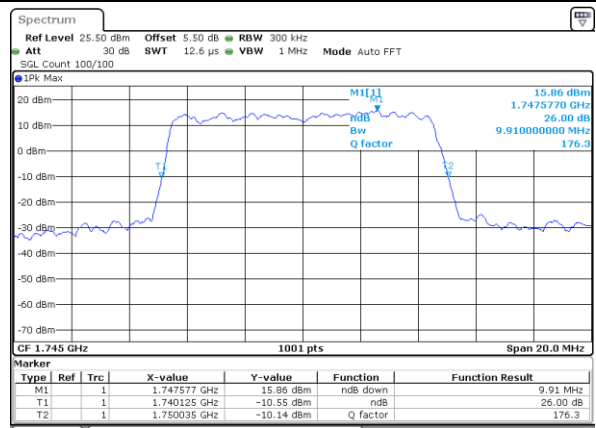
Date: 13 JUN 2020 01:09:36

Middle Channel / 10MHz / QPSK



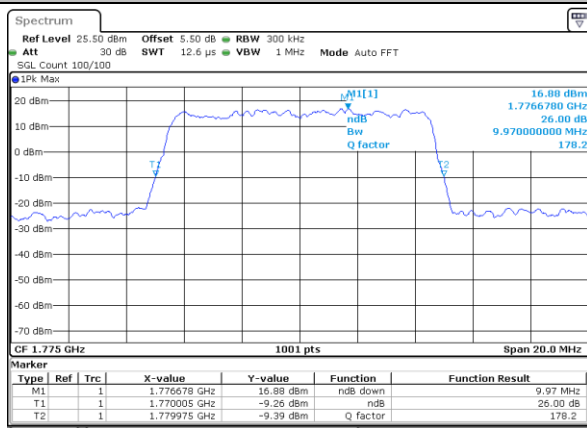
Date: 13 JUN 2020 01:51:53

Middle Channel / 10MHz / 16QAM



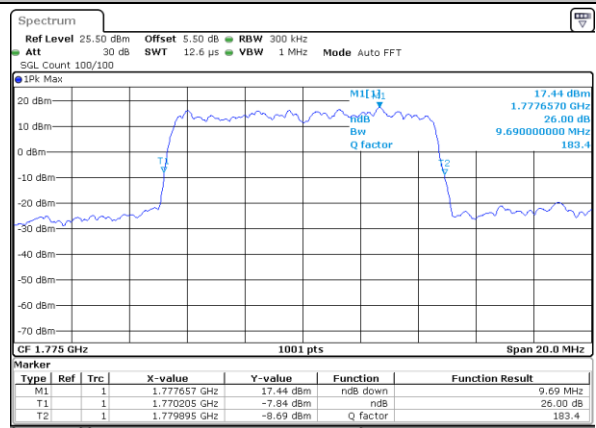
Date: 13 JUN 2020 01:51:31

Highest Channel / 10MHz / QPSK



Date: 13 JUN 2020 01:52:22

Highest Channel / 10MHz / 16QAM

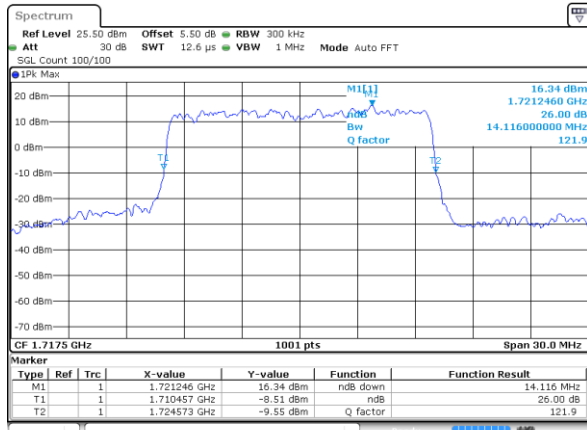


Date: 13 JUN 2020 01:52:59

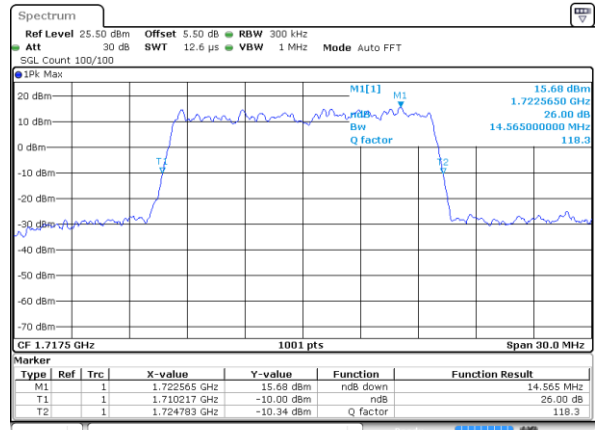


LTE Band 66

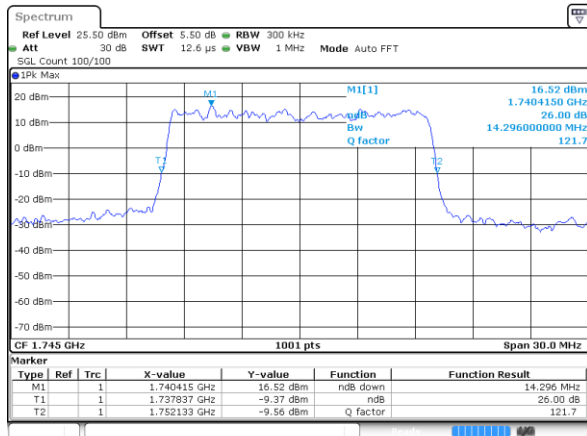
Lowest Channel / 15MHz / QPSK



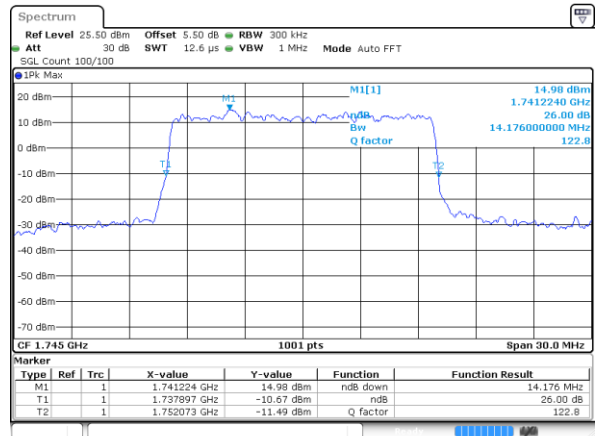
Lowest Channel / 15MHz / 16QAM



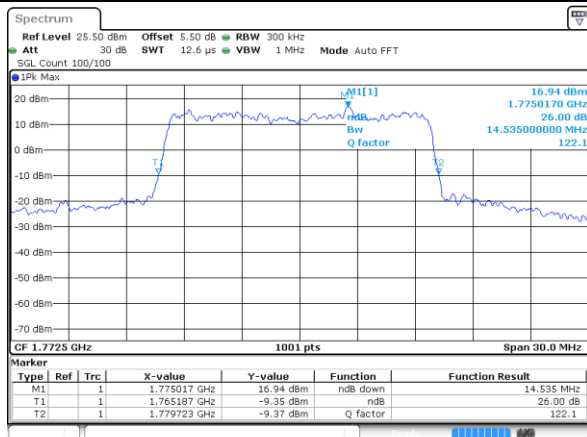
Middle Channel / 15MHz / QPSK



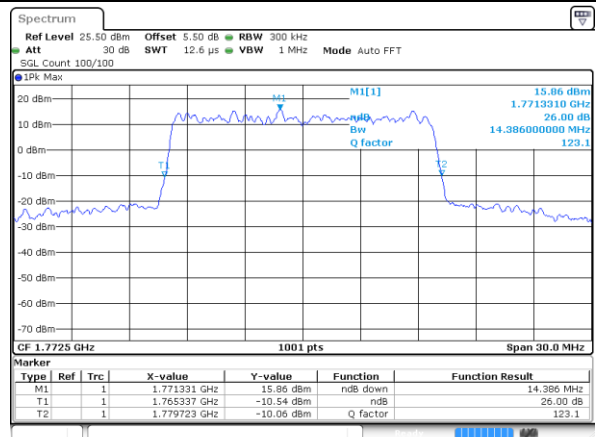
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



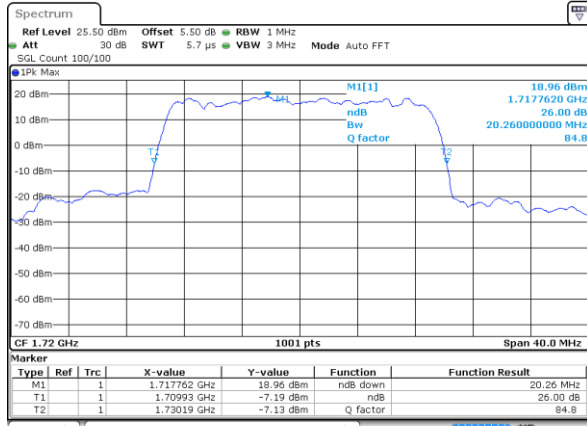
Highest Channel / 15MHz / 16QAM



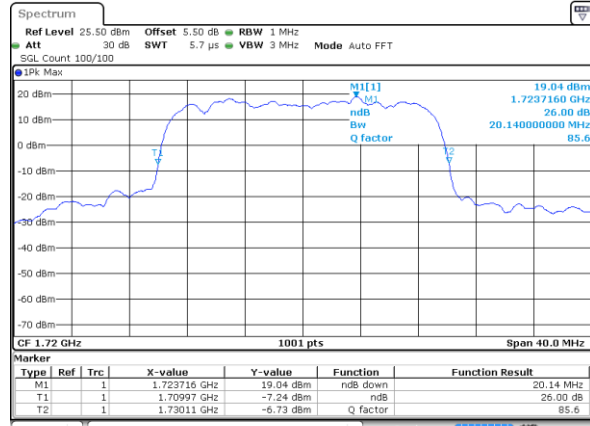


LTE Band 66

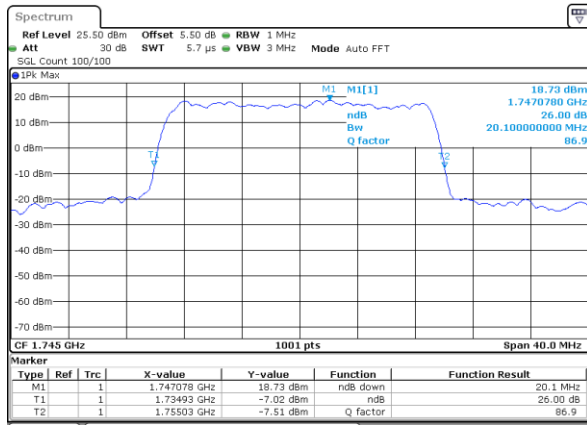
Lowest Channel / 20MHz / QPSK



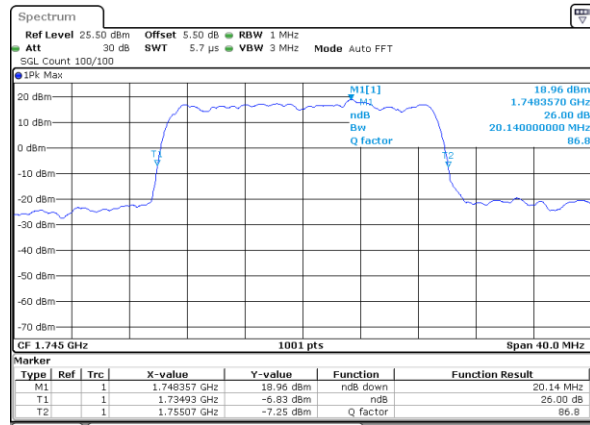
Lowest Channel / 20MHz / 16QAM



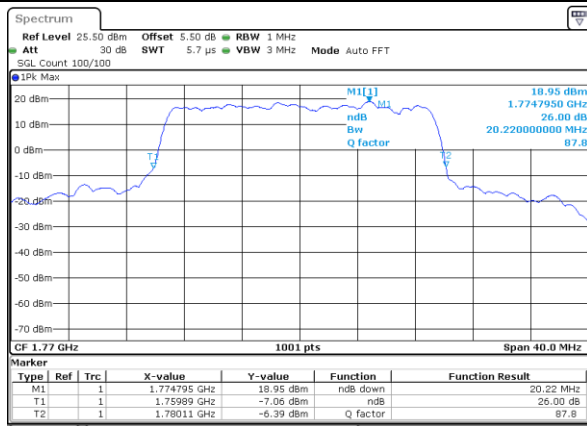
Middle Channel / 20MHz / QPSK



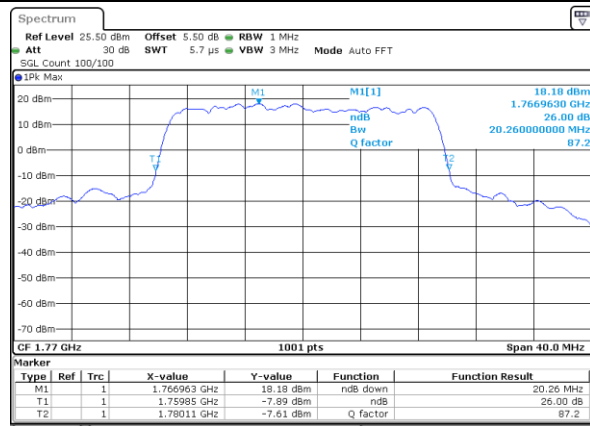
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



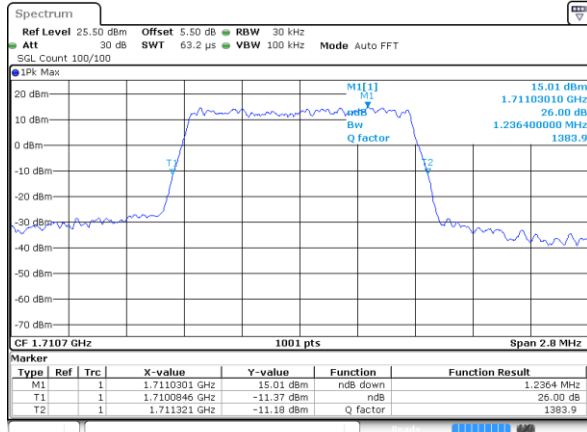
Highest Channel / 20MHz / 16QAM



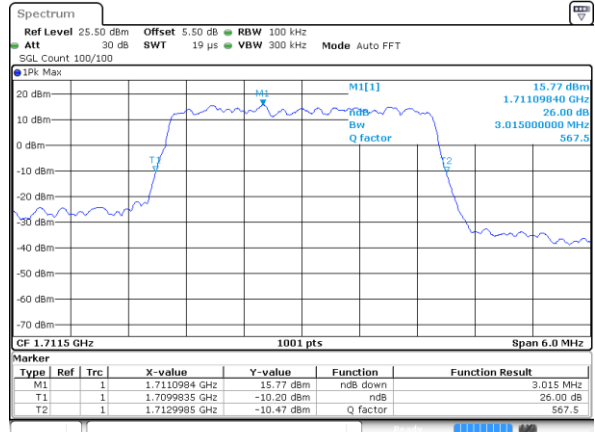


LTE Band 66

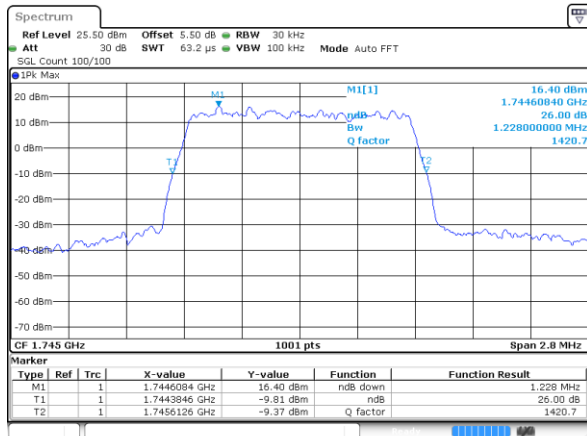
Lowest Channel / 1.4MHz / 64QAM



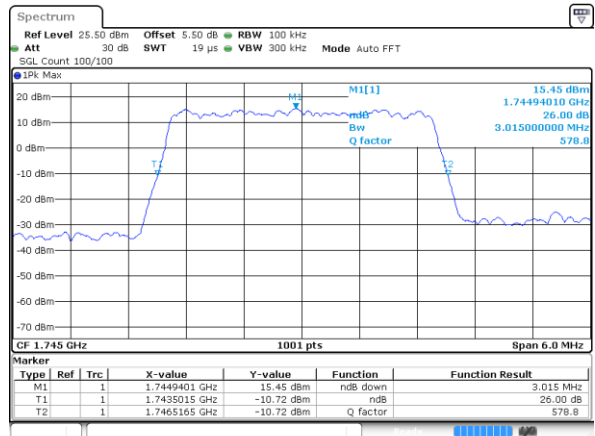
Lowest Channel / 3MHz / 64QAM



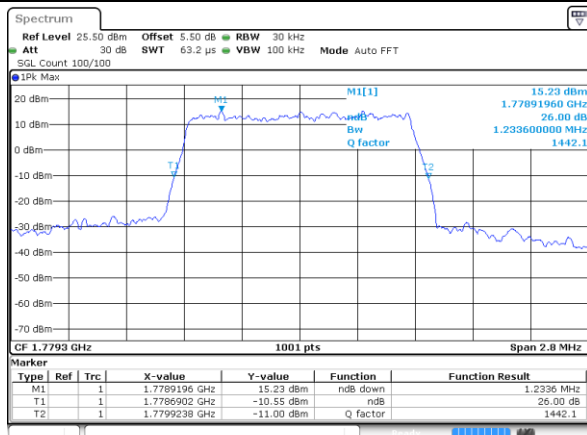
Middle Channel / 20MHz / 64QAM



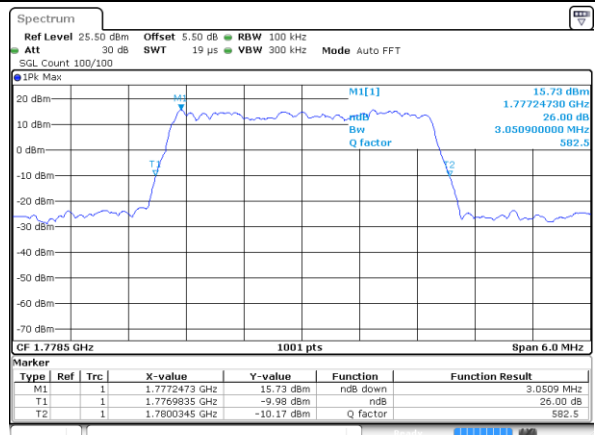
Middle Channel / 3MHz / 64QAM



Highest Channel / 20MHz / 64QAM



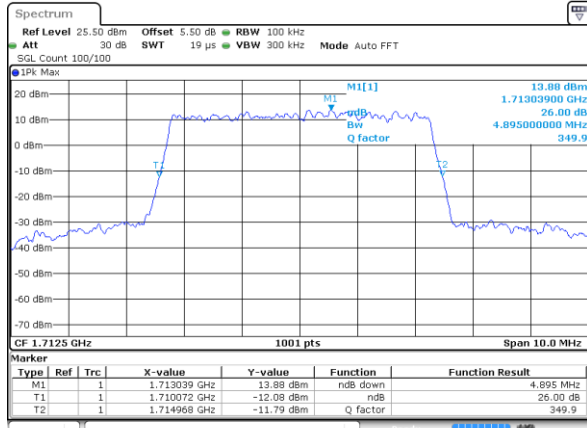
Highest Channel / 3MHz / 64QAM





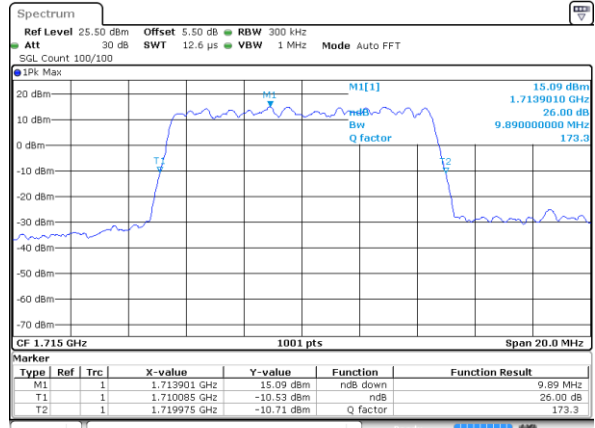
LTE Band 66

Lowest Channel / 5MHz / 64QAM



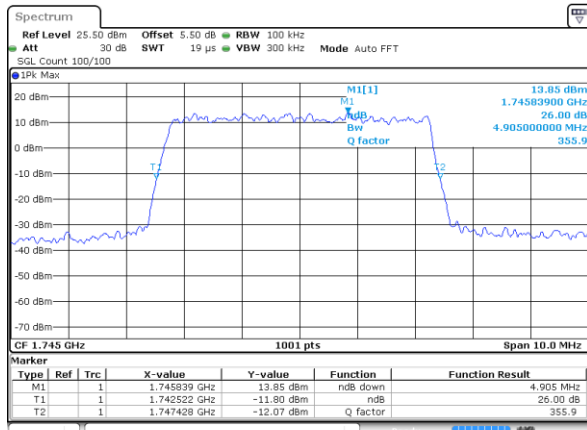
Date: 13 JUN 2020 00:37:20

Lowest Channel / 10MHz / 64QAM



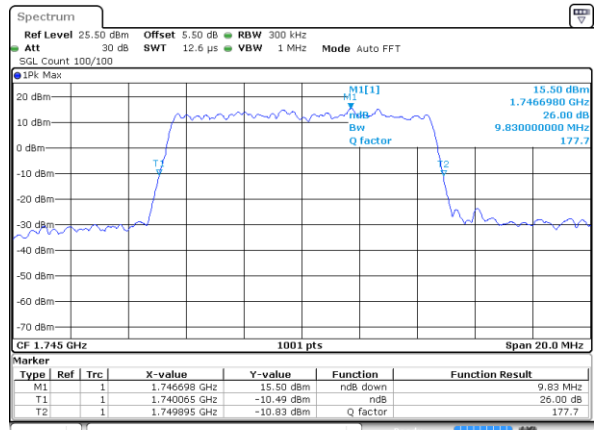
Date: 13 JUN 2020 01:10:23

Middle Channel / 5MHz / 64QAM



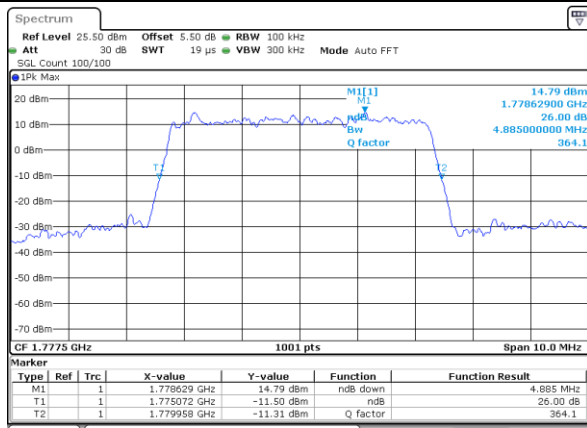
Date: 13 JUN 2020 00:47:18

Middle Channel / 10MHz / 64QAM



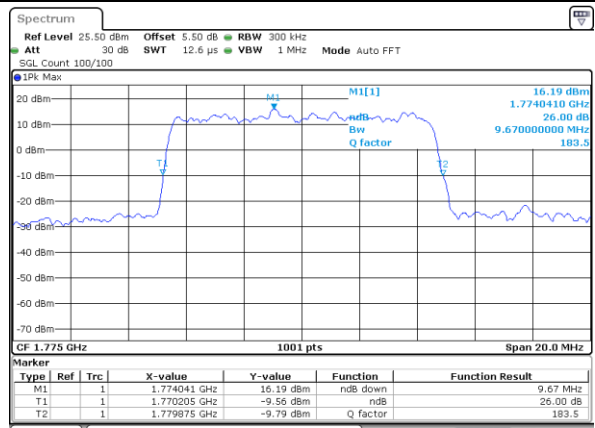
Date: 13 JUN 2020 01:51:09

Highest Channel / 5MHz / 64QAM



Date: 13 JUN 2020 00:47:51

Highest Channel / 10MHz / 64QAM

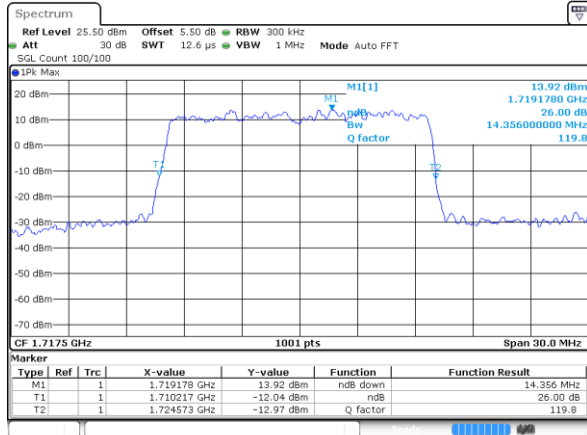


Date: 13 JUN 2020 01:53:46

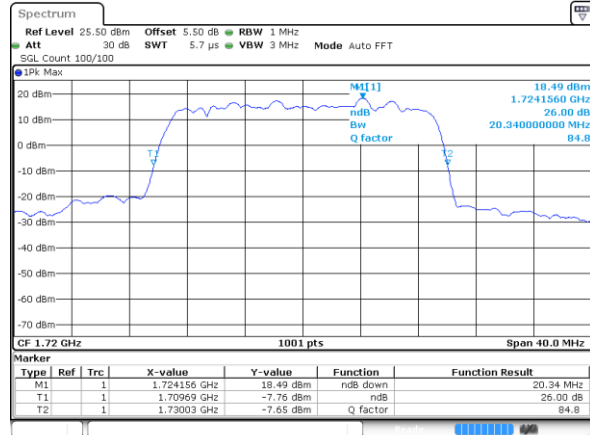


LTE Band 66

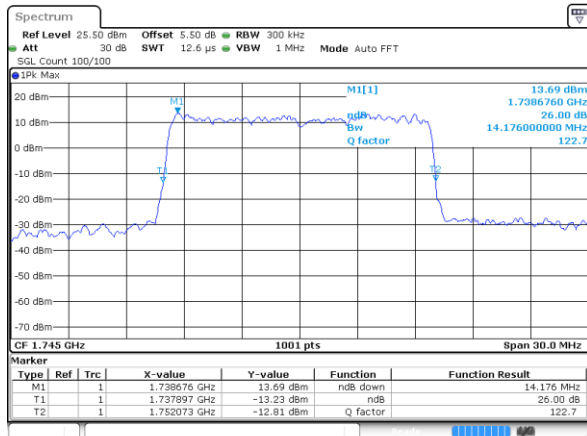
Lowest Channel / 15MHz / 64QAM



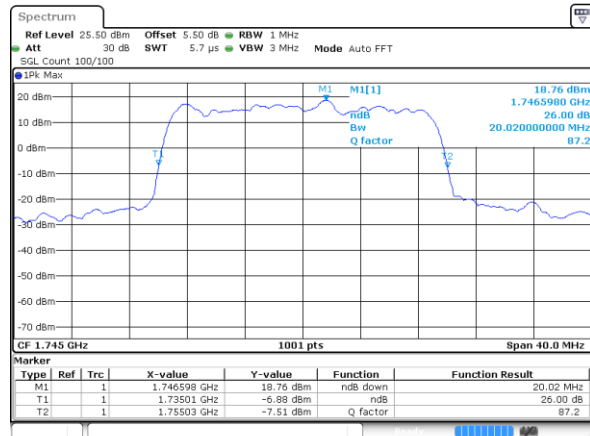
Lowest Channel / 20MHz / 64QAM



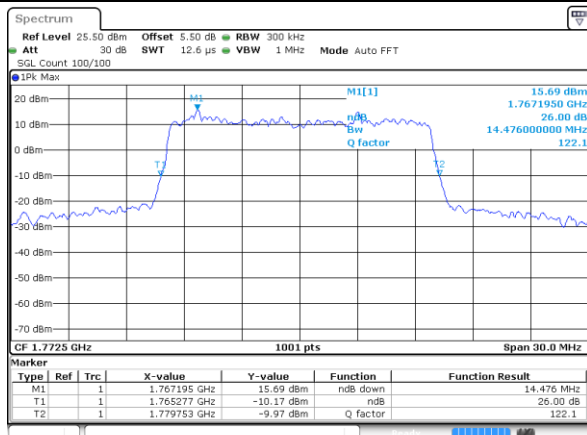
Middle Channel / 15MHz / 64QAM



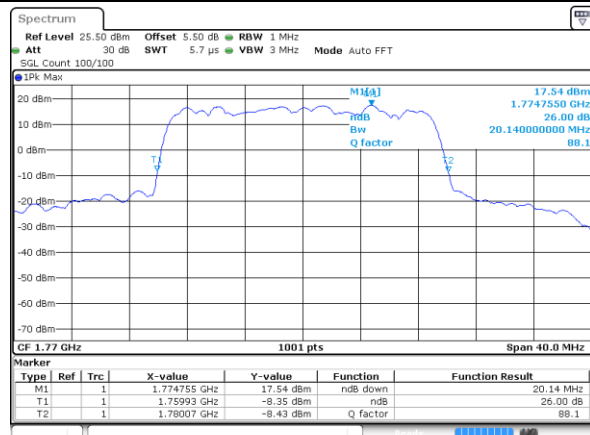
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



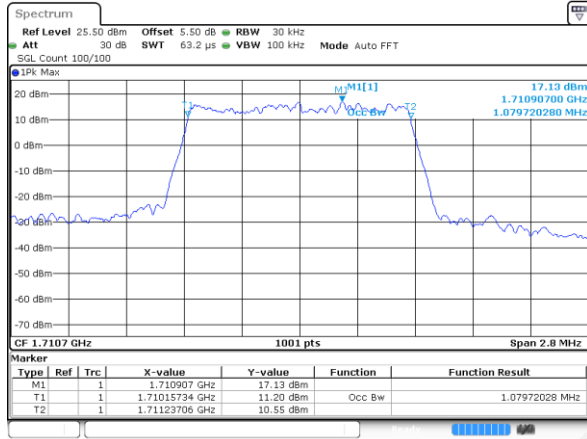
**Occupied Bandwidth**

Mode	LTE Band 66 : 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	1.08	1.09	2.75	2.71	4.51	4.49	9.05	9.01	13.46	13.46	18.34	18.30
Middle CH	1.09	1.08	2.70	2.71	4.49	4.50	8.95	9.01	13.49	13.46	18.34	18.34
Highest CH	1.09	1.08	2.71	2.71	4.48	4.49	9.03	8.99	13.49	13.46	18.34	18.38
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.51	-	9.05	-	13.40	-	18.10	-
Middle CH	1.09	-	2.72	-	4.49	-	8.99	-	13.43	-	18.38	-
Highest CH	1.08	-	2.72	-	4.48	-	9.03	-	13.43	-	18.42	-

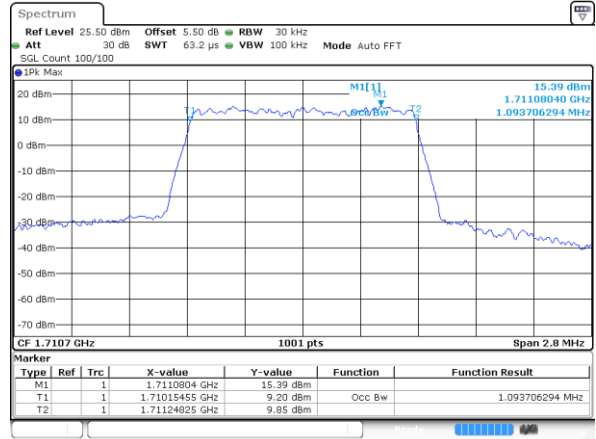


LTE Band 66

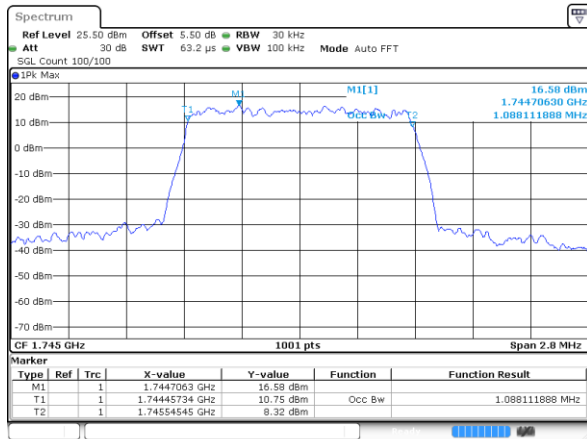
Lowest Channel / 1.4MHz / QPSK



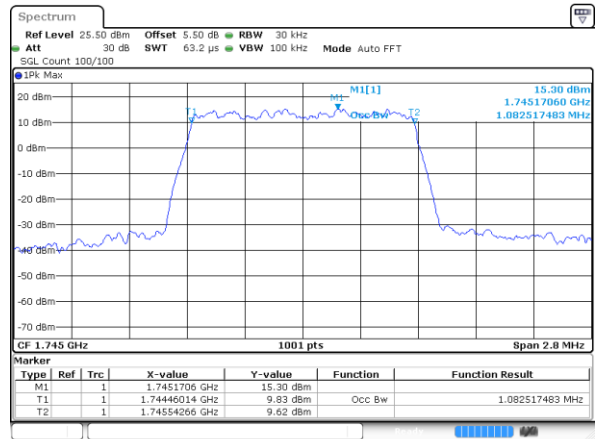
Lowest Channel / 1.4MHz / 16QAM



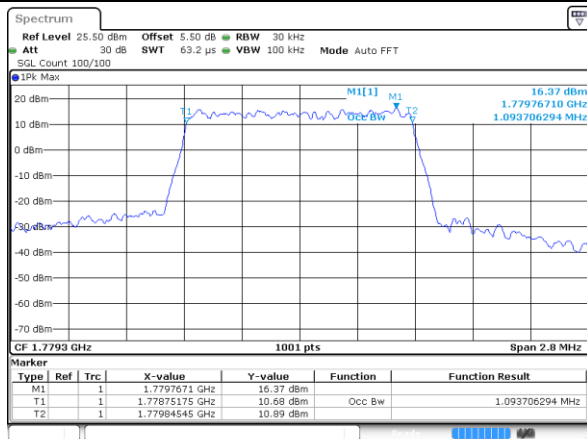
Middle Channel / 1.4MHz / QPSK



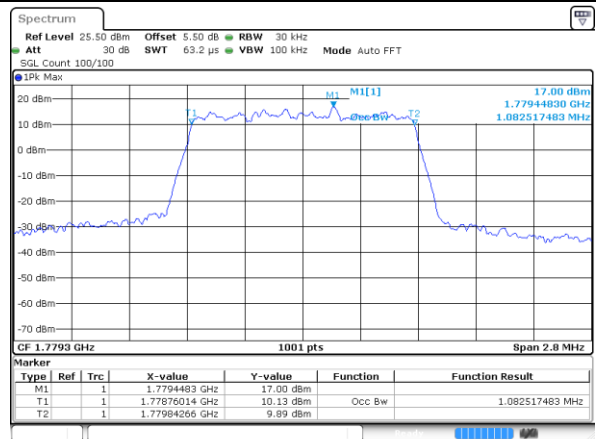
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



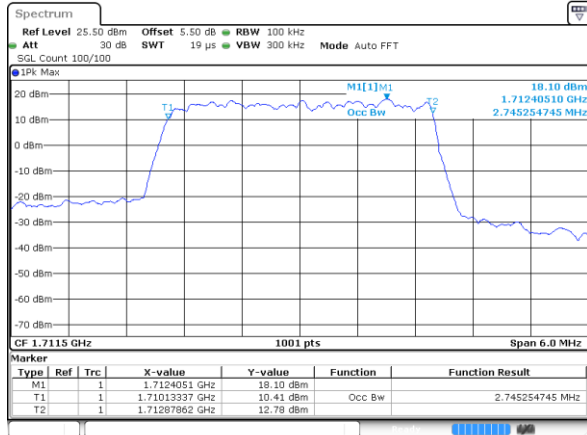
Highest Channel / 1.4MHz / 16QAM





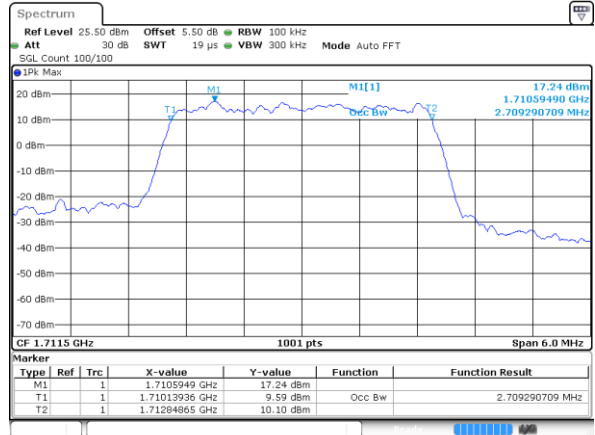
LTE Band 66

Lowest Channel / 3MHz / QPSK



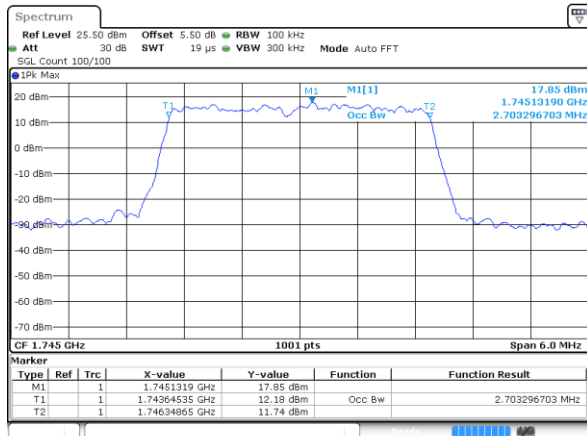
Date: 13 JUN 2020 00:16:59

Lowest Channel / 3MHz / 16QAM



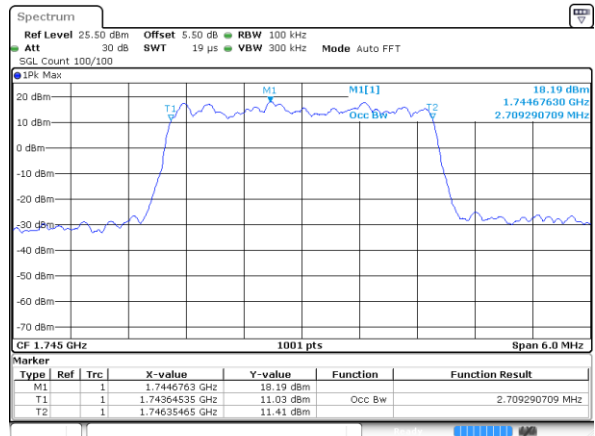
Date: 13 JUN 2020 00:17:59

Middle Channel / 3MHz / QPSK



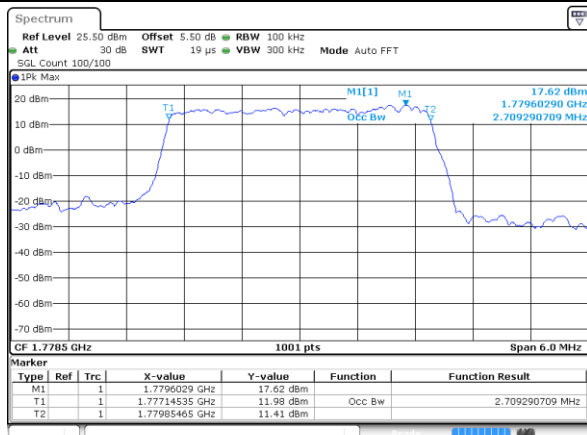
Date: 13 JUN 2020 00:27:21

Middle Channel / 3MHz / 16QAM



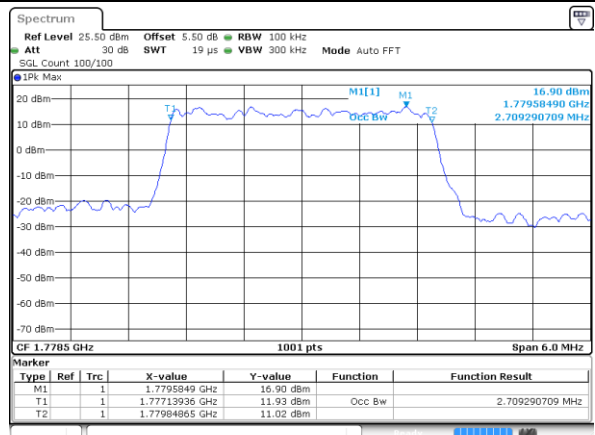
Date: 13 JUN 2020 00:26:59

Highest Channel / 3MHz / QPSK



Date: 13 JUN 2020 00:27:52

Highest Channel / 3MHz / 16QAM

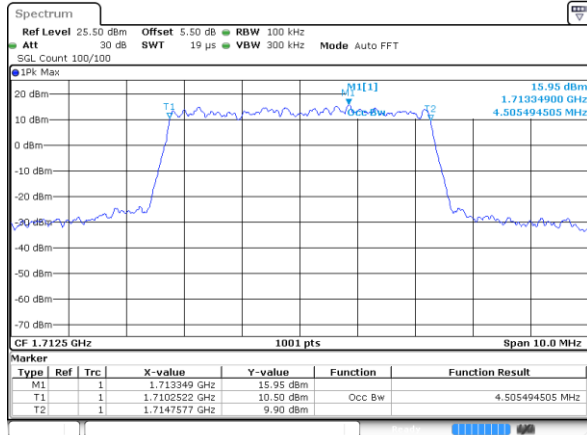


Date: 13 JUN 2020 00:29:05

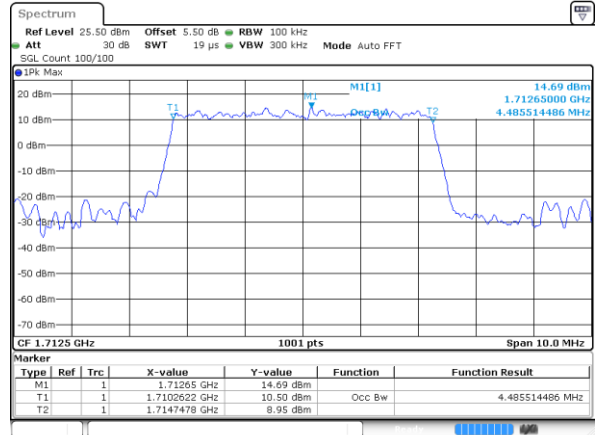


LTE Band 66

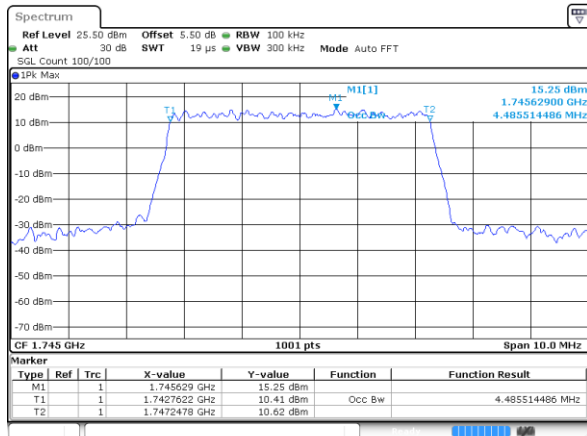
Lowest Channel / 5MHz / QPSK



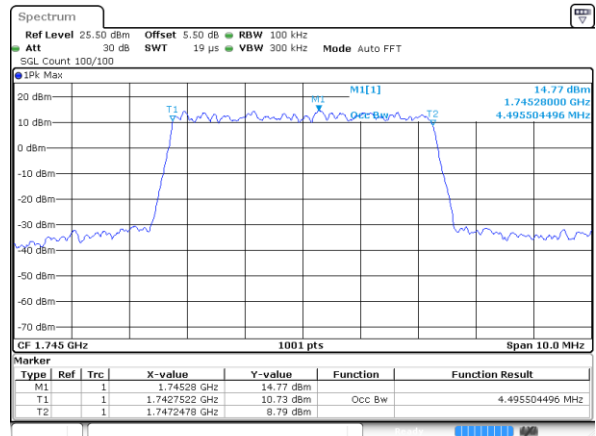
Lowest Channel / 5MHz / 16QAM



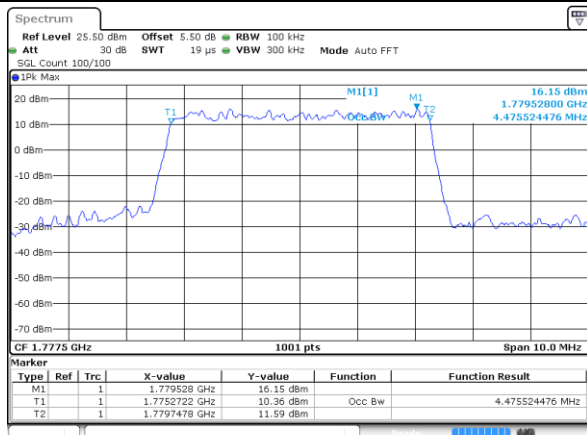
Middle Channel / 5MHz / QPSK



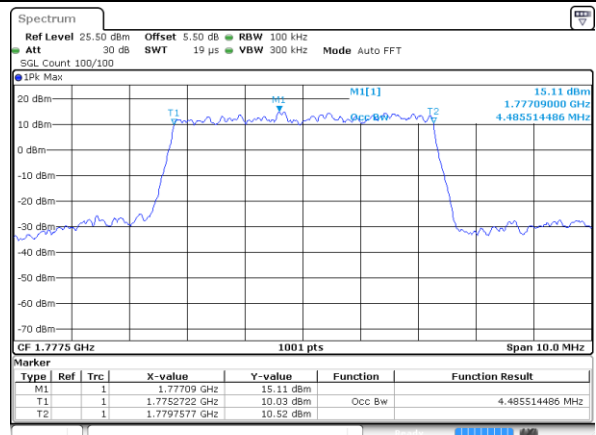
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



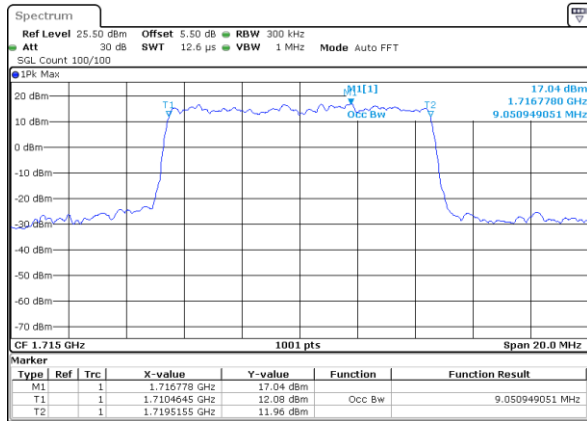
Highest Channel / 5MHz / 16QAM





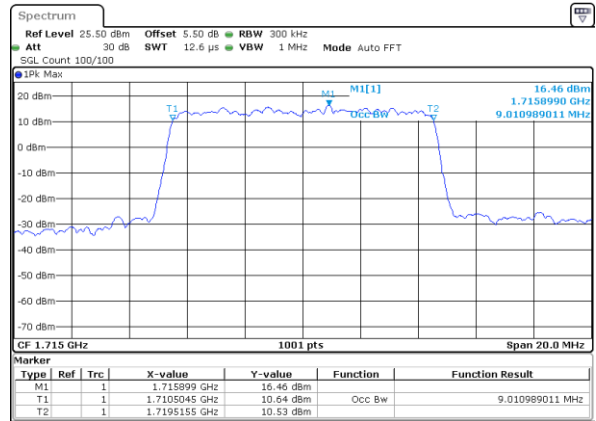
LTE Band 66

Lowest Channel / 10MHz / QPSK



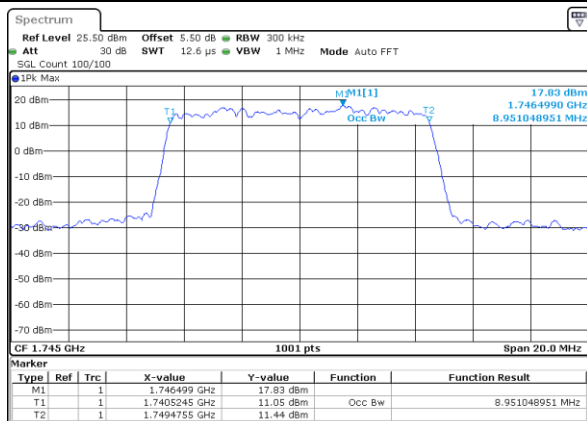
Date: 13 JUN 2020 01:08:51

Lowest Channel / 10MHz / 16QAM



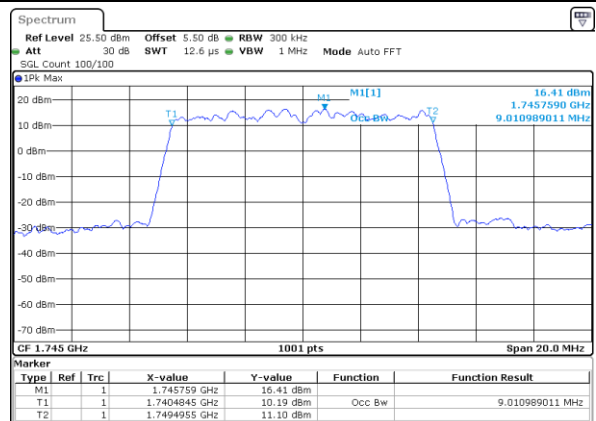
Date: 13 JUN 2020 01:09:29

Middle Channel / 10MHz / QPSK



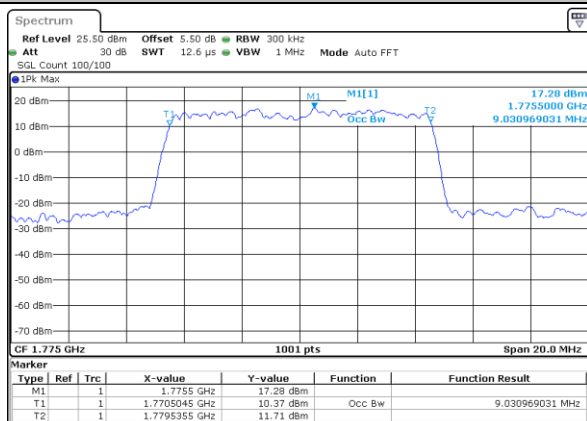
Date: 13 JUN 2020 01:51:44

Middle Channel / 10MHz / 16QAM



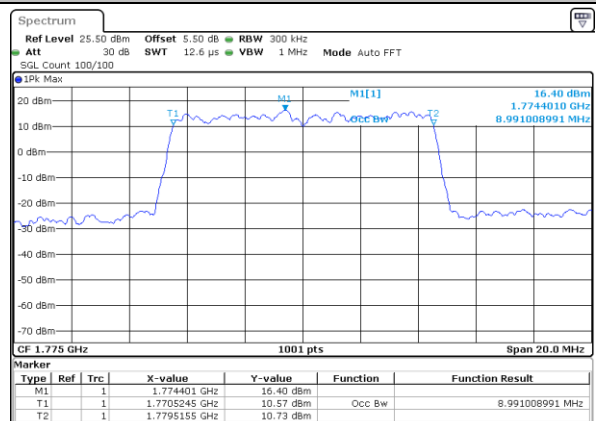
Date: 13 JUN 2020 01:51:23

Highest Channel / 10MHz / QPSK



Date: 13 JUN 2020 01:52:14

Highest Channel / 10MHz / 16QAM

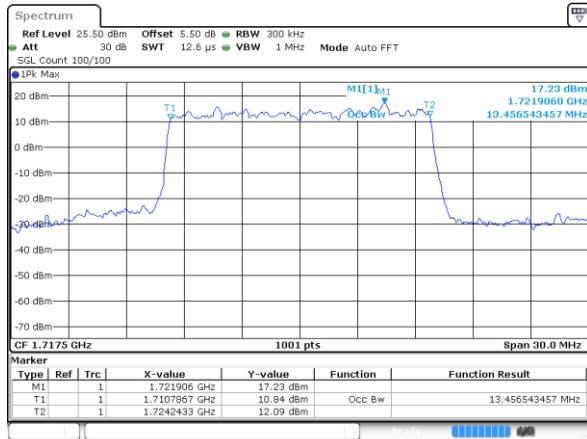


Date: 13 JUN 2020 01:52:50

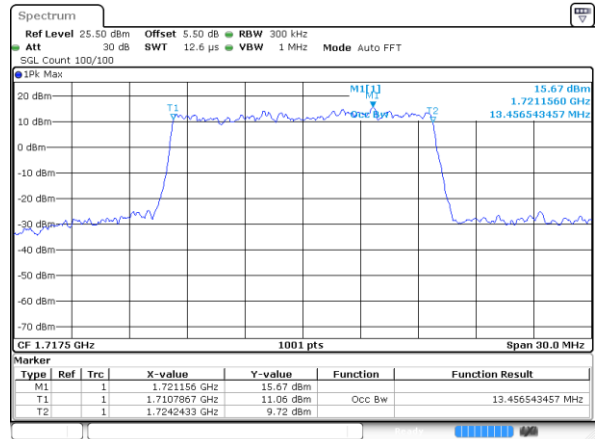


LTE Band 66

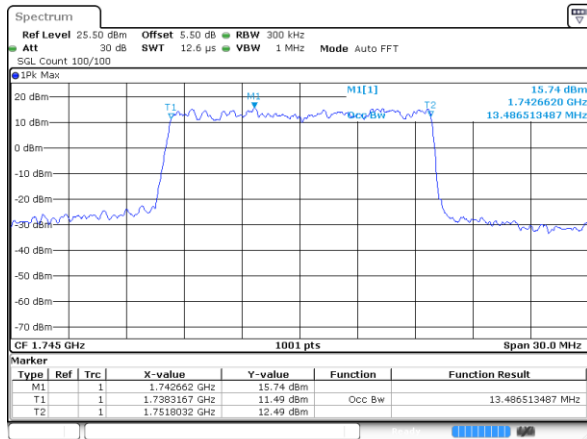
Lowest Channel / 15MHz / QPSK



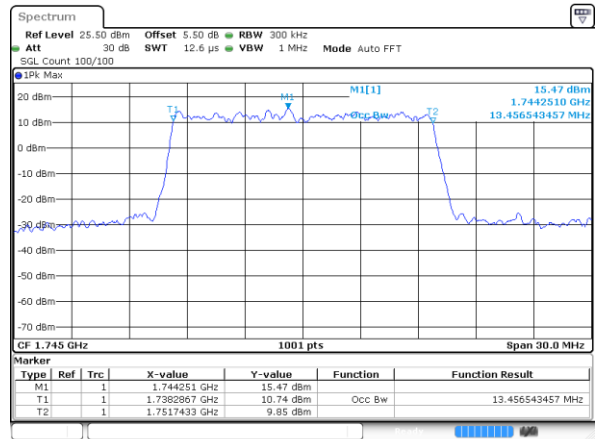
Lowest Channel / 15MHz / 16QAM



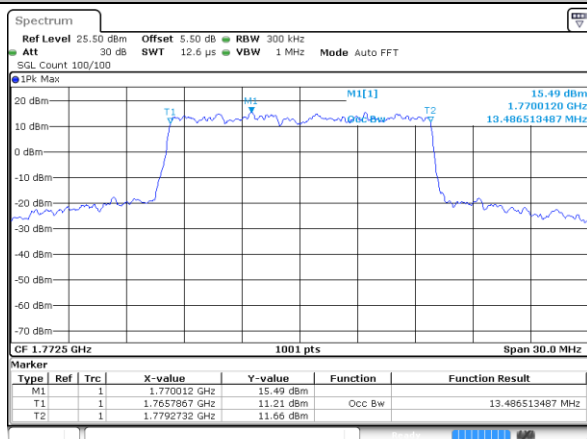
Middle Channel / 15MHz / QPSK



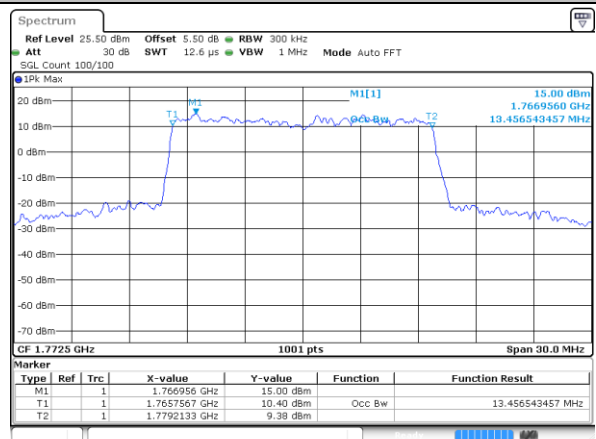
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



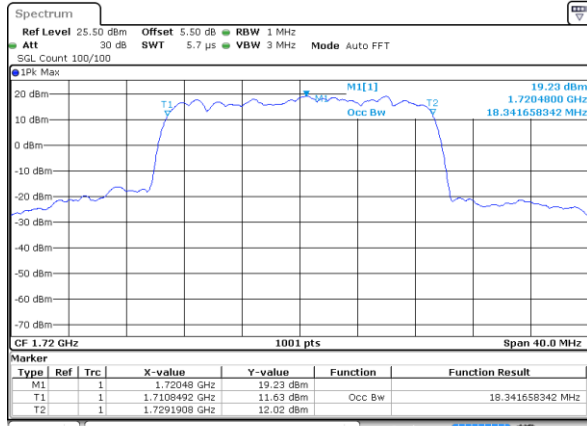
Highest Channel / 15MHz / 16QAM





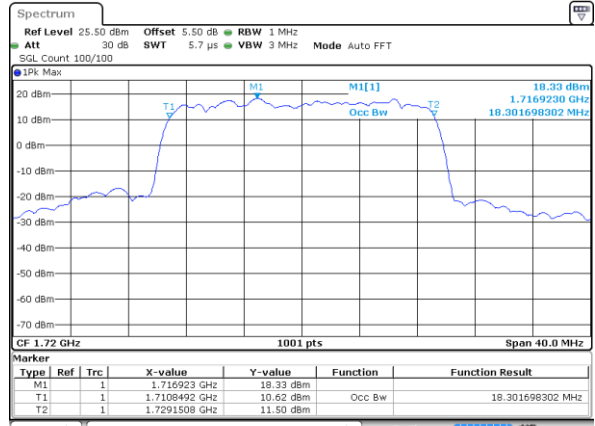
LTE Band 66

Lowest Channel / 20MHz / QPSK



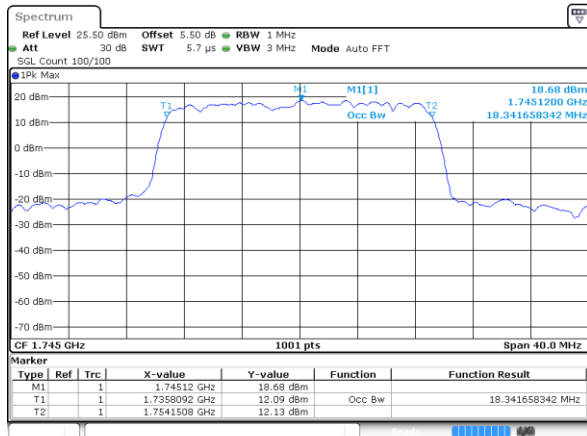
Date: 13 JUN 2020 02:19:38

Lowest Channel / 20MHz / 16QAM



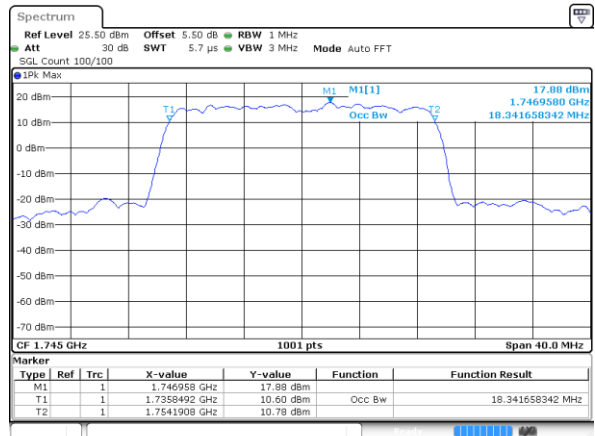
Date: 13 JUN 2020 02:20:19

Middle Channel / 20MHz / QPSK



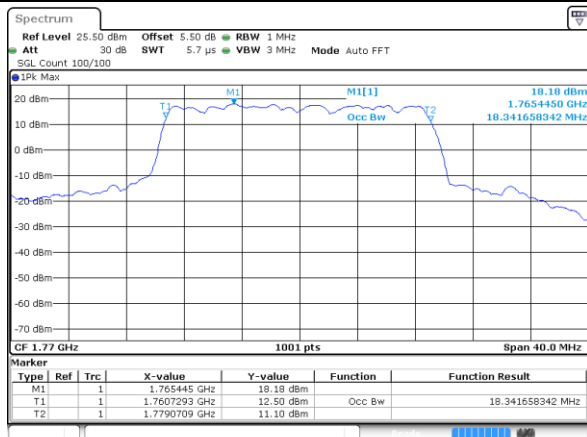
Date: 13 JUN 2020 02:29:01

Middle Channel / 20MHz / 16QAM



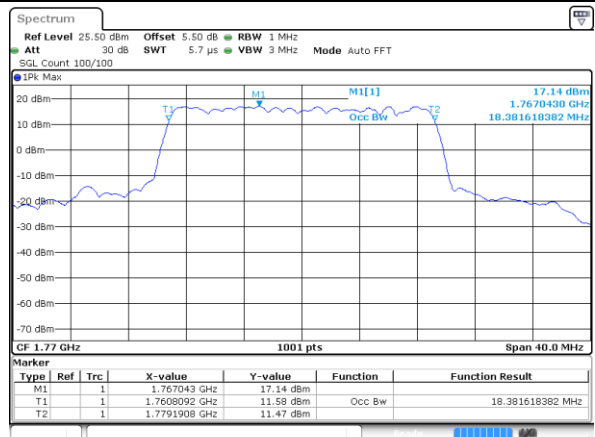
Date: 13 JUN 2020 02:28:27

Highest Channel / 20MHz / QPSK



Date: 13 JUN 2020 02:29:43

Highest Channel / 20MHz / 16QAM

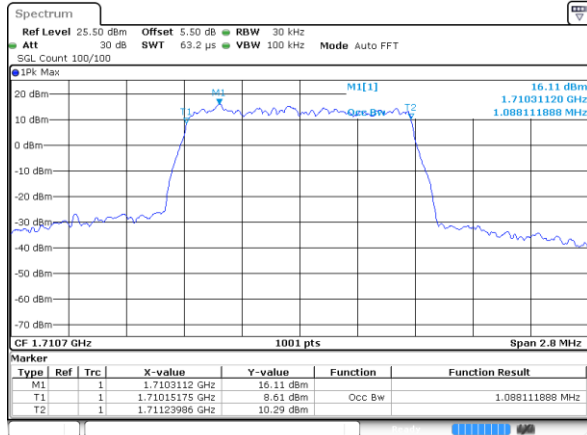


Date: 13 JUN 2020 02:30:44



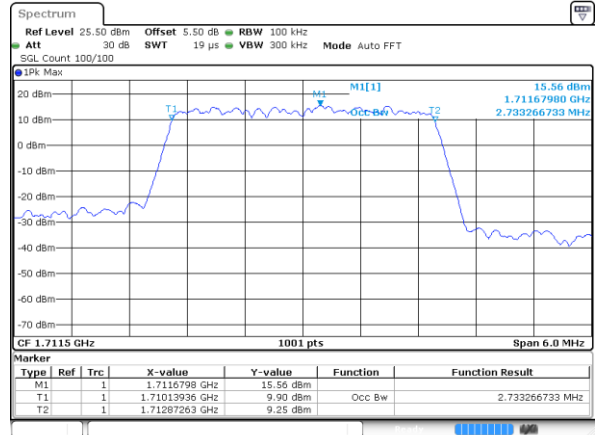
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



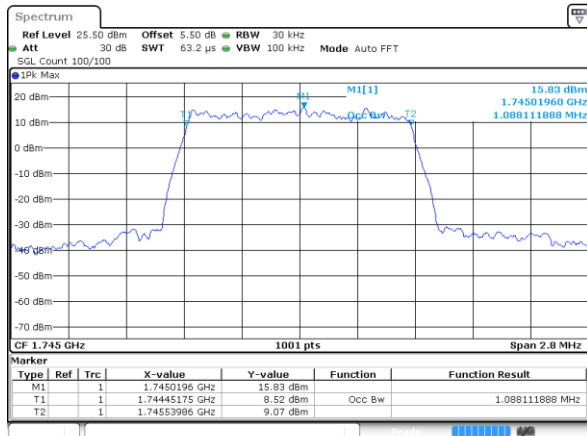
Date: 12 JUN 2020 23:44:14

Lowest Channel / 3MHz / 64QAM



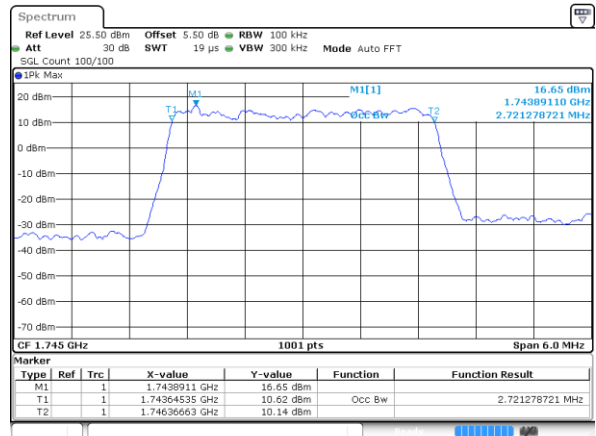
Date: 13 JUN 2020 00:18:57

Middle Channel / 20MHz / 64QAM



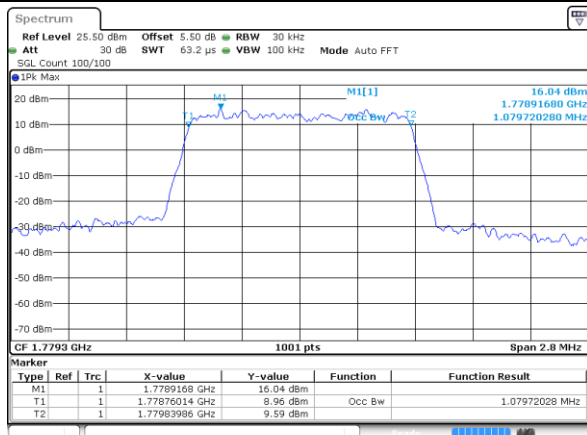
Date: 12 JUN 2020 23:57:17

Middle Channel / 3MHz / 64QAM



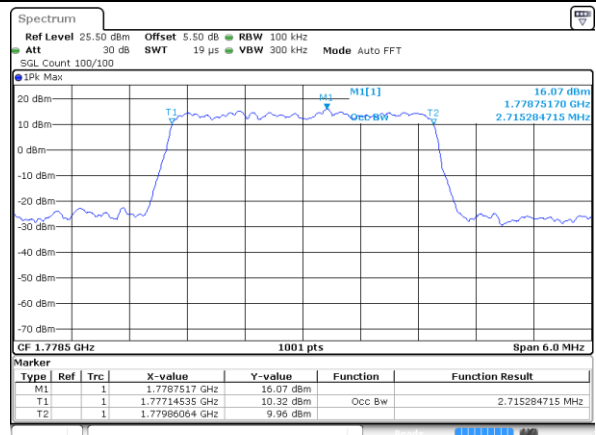
Date: 13 JUN 2020 00:26:36

Highest Channel / 20MHz / 64QAM



Date: 13 JUN 2020 00:01:24

Highest Channel / 3MHz / 64QAM

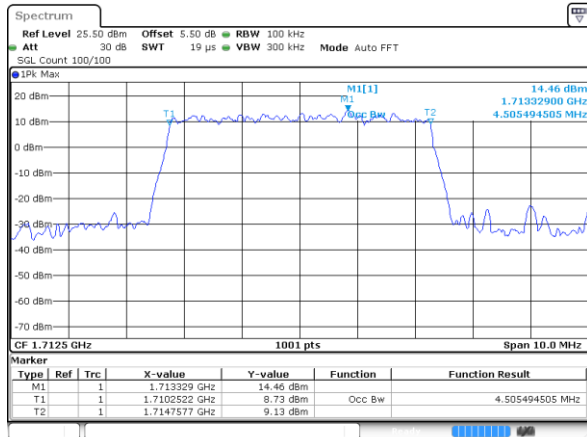


Date: 13 JUN 2020 00:30:01

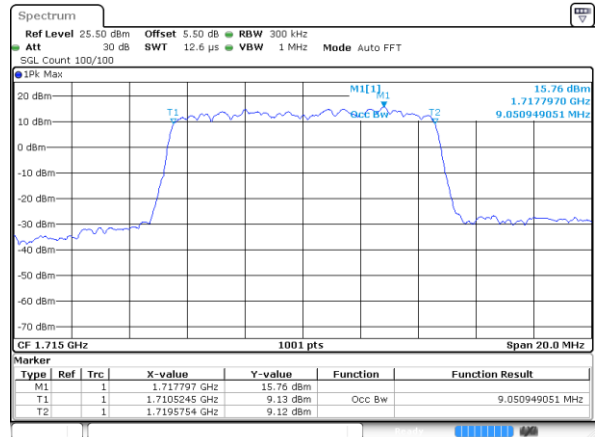


LTE Band 66

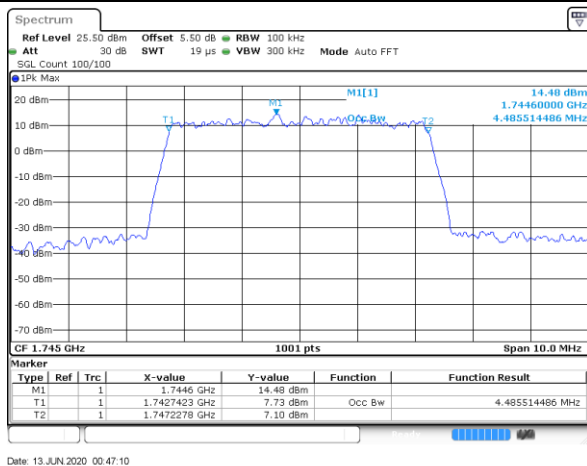
Lowest Channel / 5MHz / 64QAM



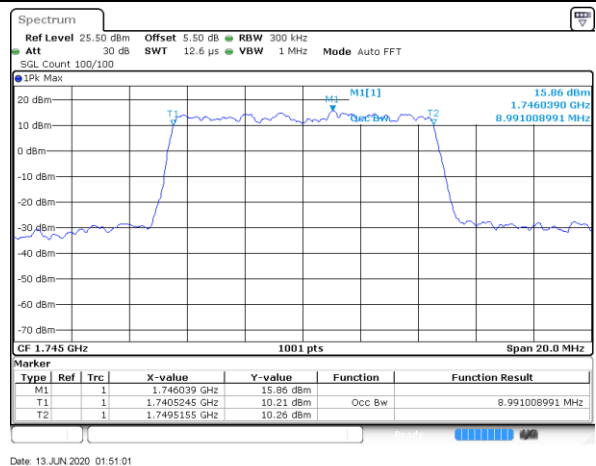
Lowest Channel / 10MHz / 64QAM



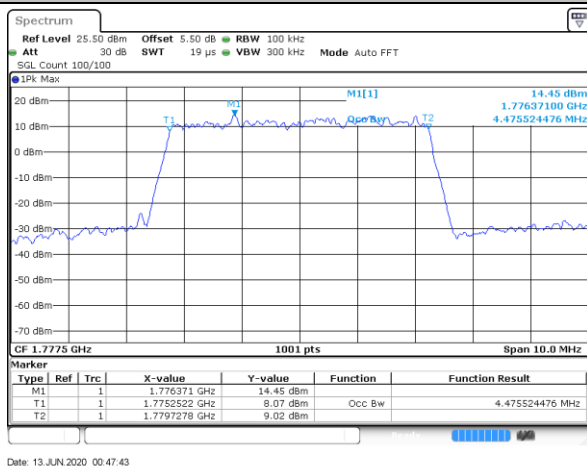
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

