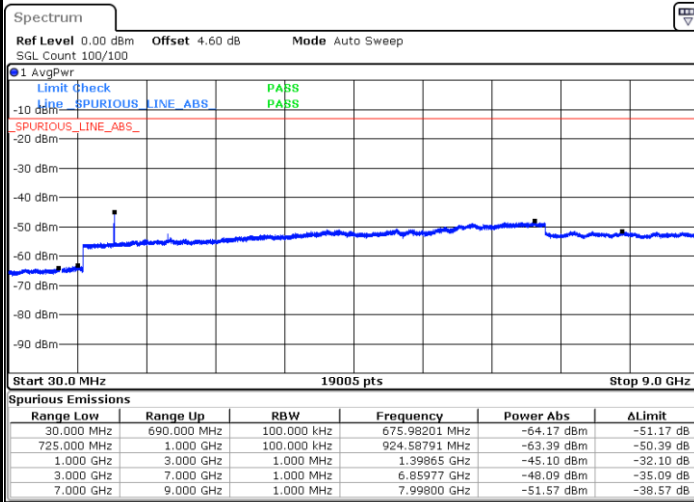




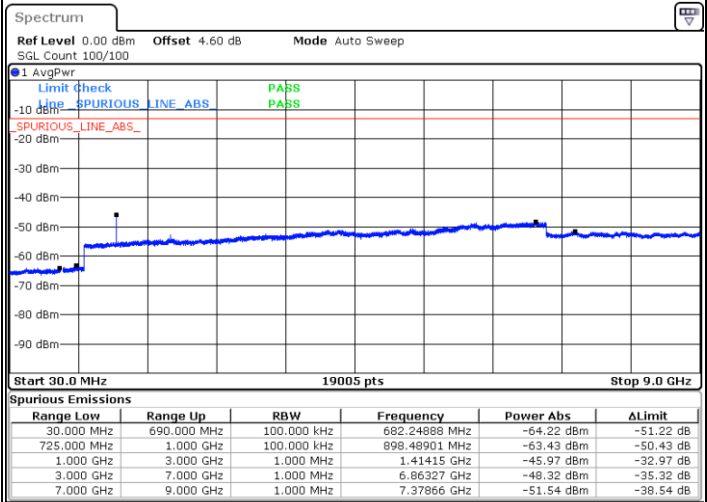
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



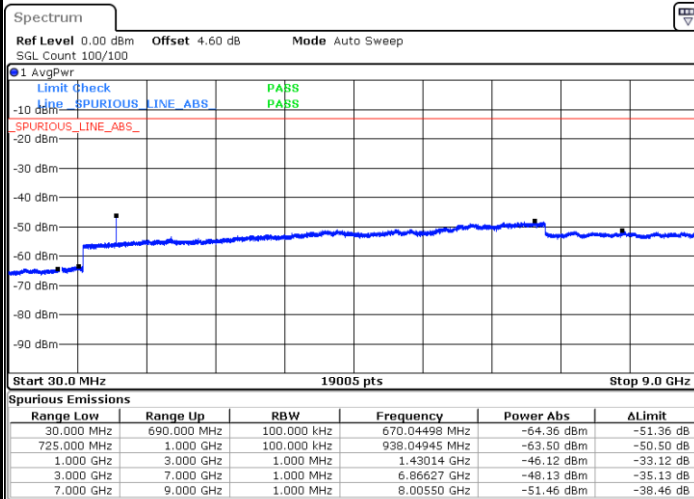
Date: 28 OCT 2019 10:22:54

Middle Channel / 64QAM



Date: 28 OCT 2019 10:23:49

Highest Channel / 64QAM

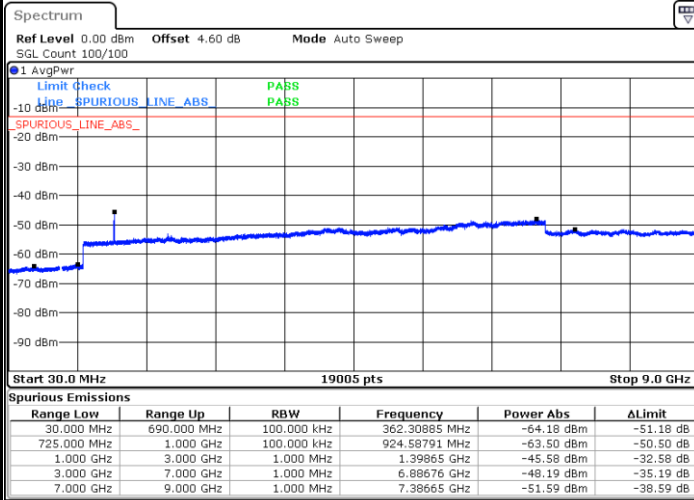


Date: 28 OCT 2019 10:24:43



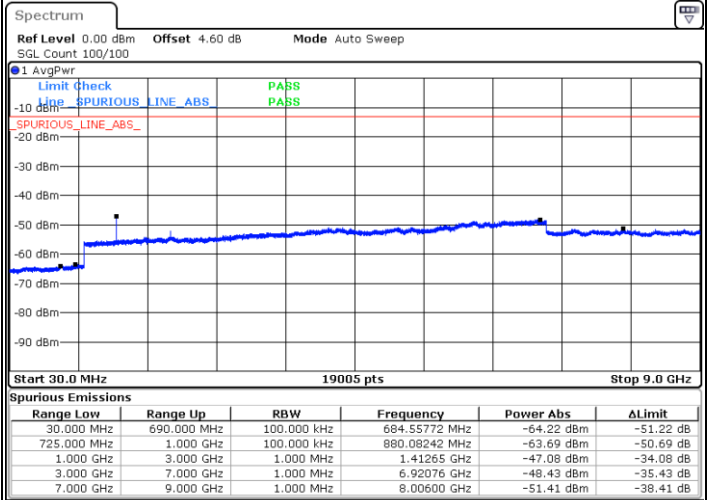
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



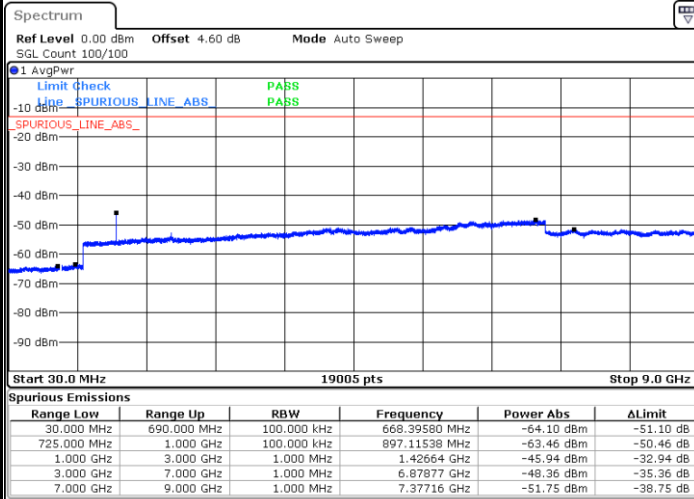
Date: 28 OCT 2019 10:25:37

Middle Channel / 64QAM



Date: 28 OCT 2019 10:26:31

Highest Channel / 64QAM

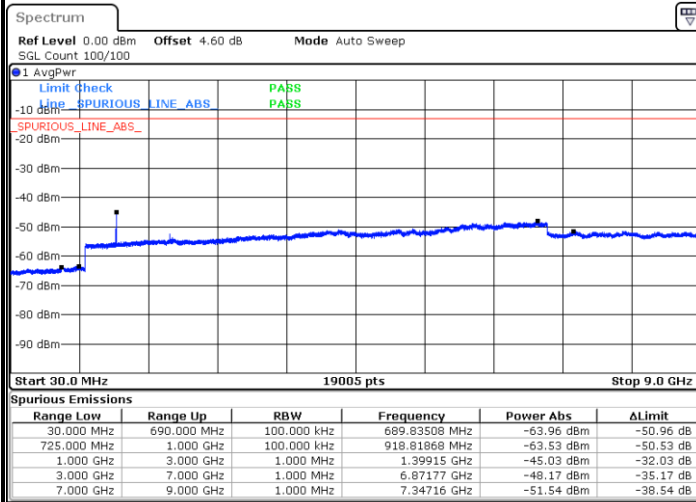


Date: 28 OCT 2019 10:27:25



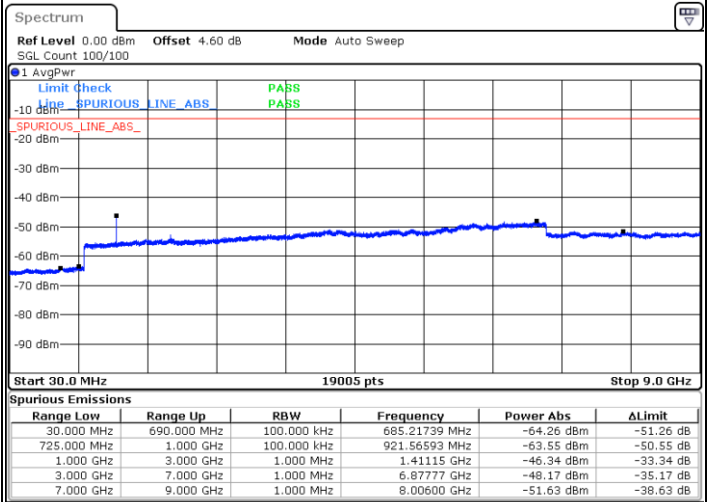
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



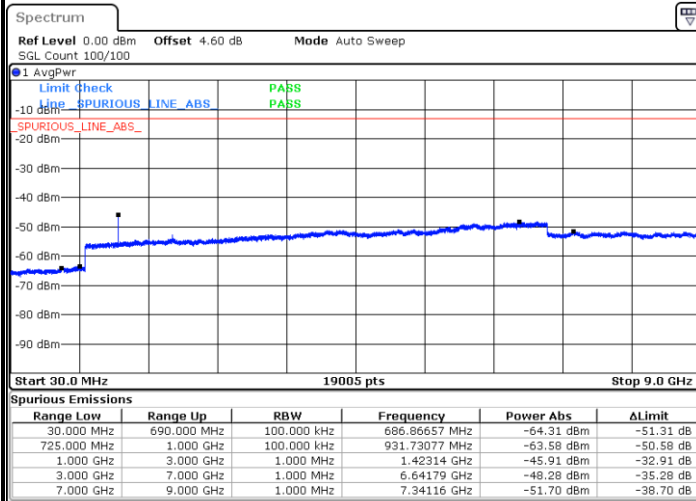
Date: 28 OCT 2019 10:39:17

Middle Channel / 64QAM



Date: 28 OCT 2019 10:40:11

Highest Channel / 64QAM

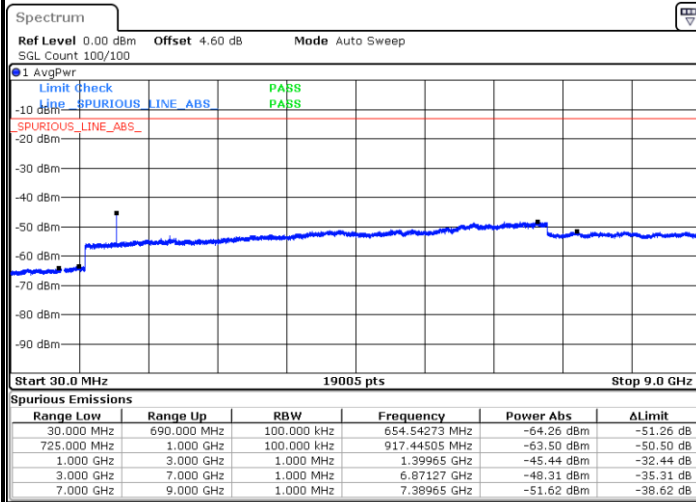


Date: 28 OCT 2019 10:41:06



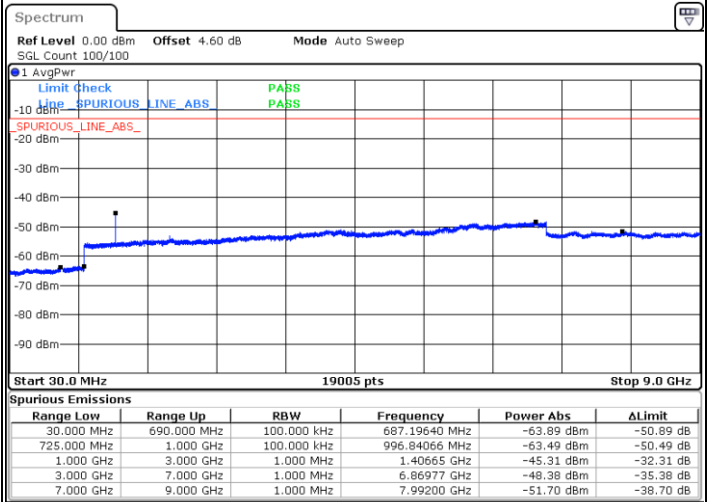
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



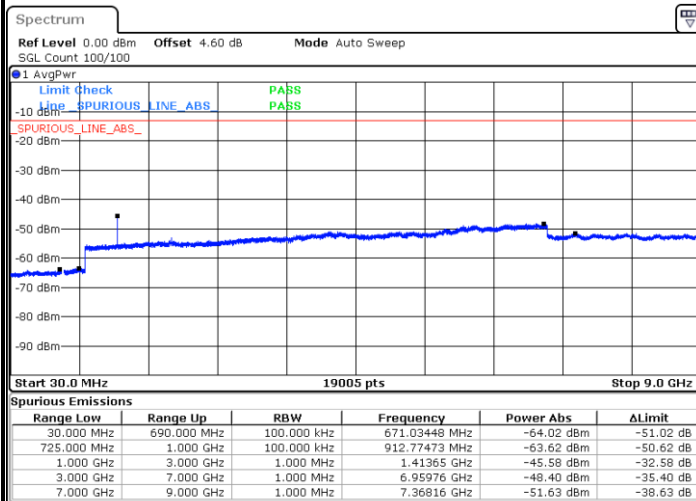
Date: 28 OCT.2019 10:42:00

Middle Channel / 64QAM



Date: 28 OCT.2019 10:42:54

Highest Channel / 64QAM



Date: 28 OCT.2019 10:43:48

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0086	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0088	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0067	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0095	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



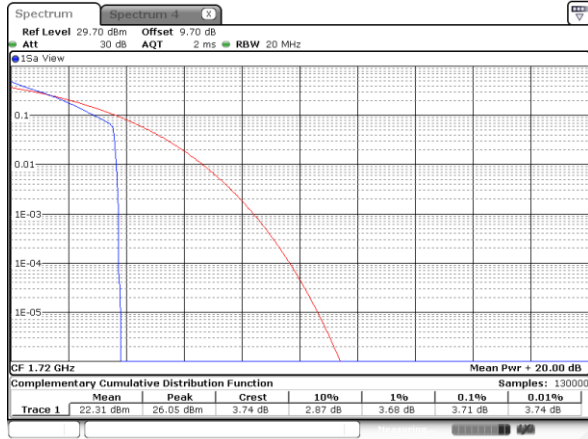
LTE Band 66

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	3.71	4.70	5.51	6.06	PASS
Middle CH	3.68	4.72	5.48	6.17	
Highest CH	3.48	4.58	5.22	5.91	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.64	6.70			PASS
Middle CH	6.41	6.70			
Highest CH	5.86	6.46			

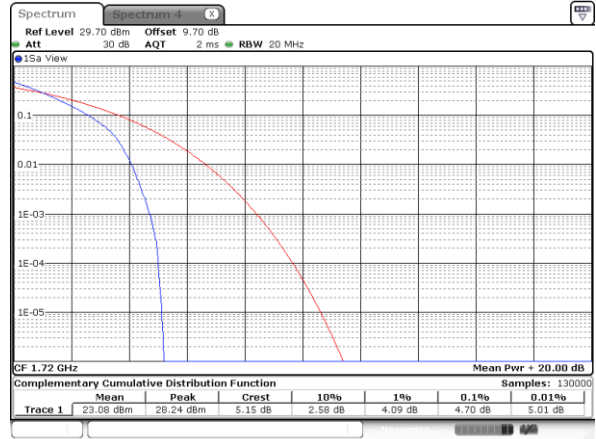
LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



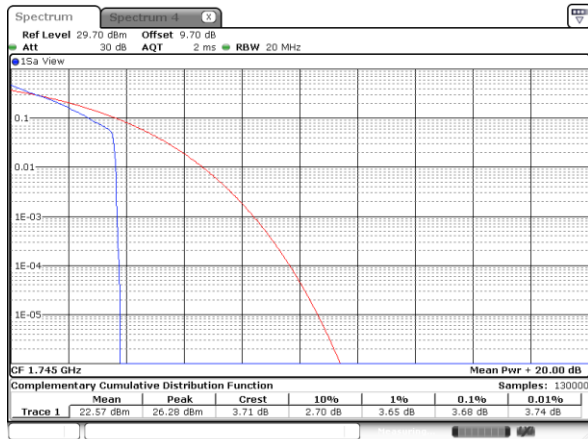
Date: 29 OCT.2019 15:18:24

Lowest Channel / Full RB



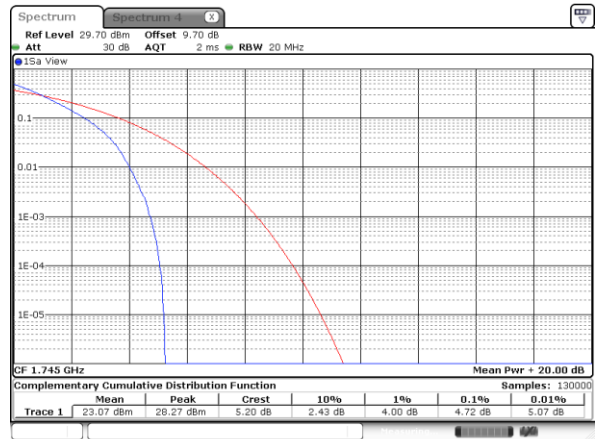
Date: 29 OCT.2019 15:17:15

Middle Channel / 1RB



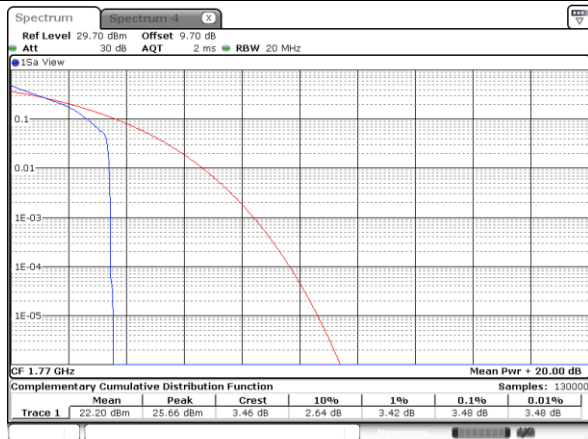
Date: 29 OCT.2019 15:15:29

Middle Channel / Full RB



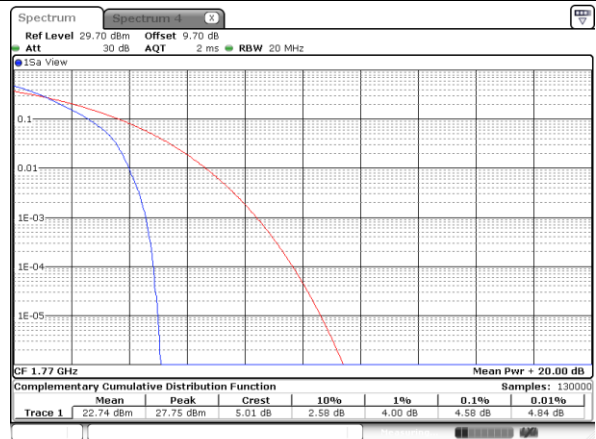
Date: 29 OCT.2019 15:16:42

Highest Channel / 1RB



Date: 29 OCT.2019 15:14:26

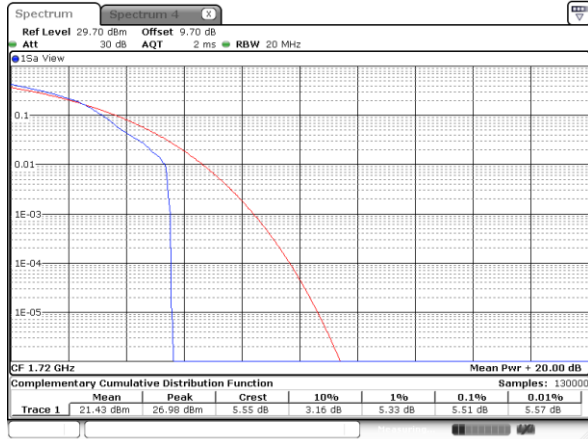
Highest Channel / Full RB



Date: 29 OCT.2019 15:14:09

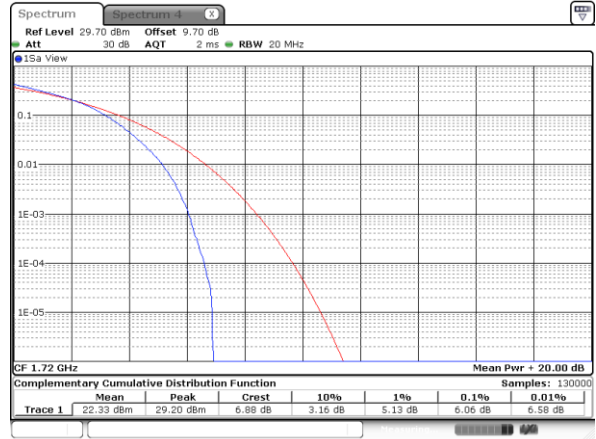
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



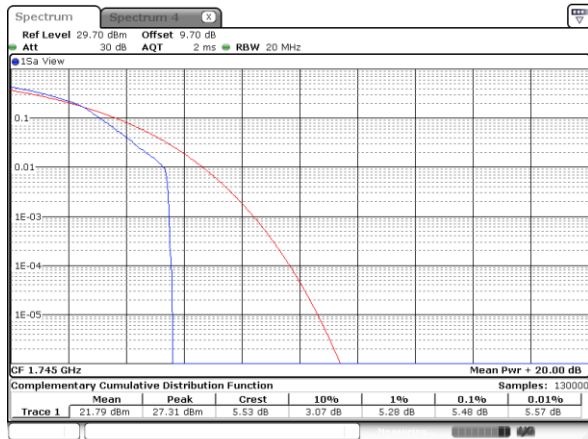
Date: 29 OCT.2019 15:18:11

Lowest Channel / Full RB



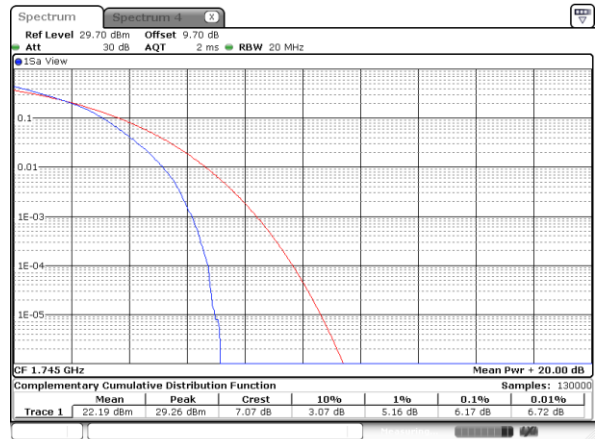
Date: 29 OCT.2019 15:17:29

Middle Channel / 1RB



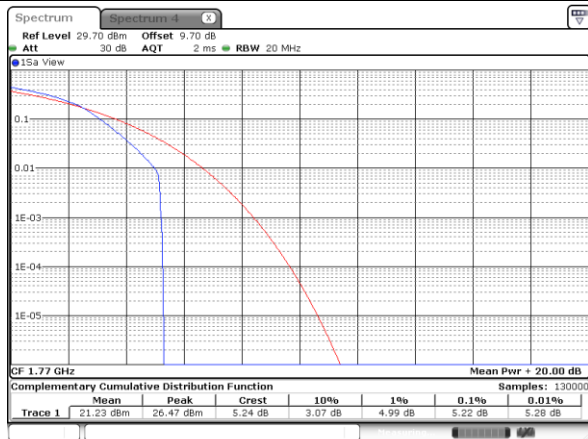
Date: 29 OCT.2019 15:15:42

Middle Channel / Full RB



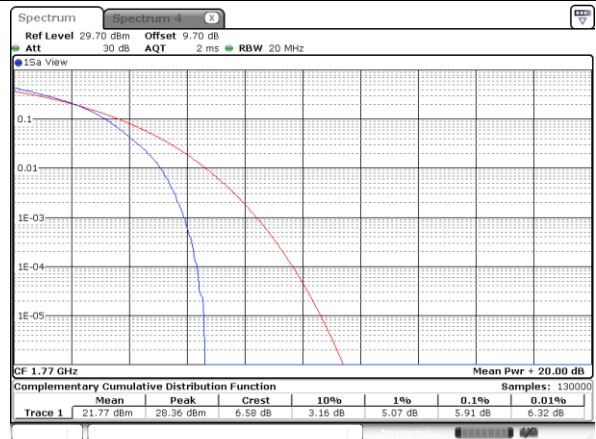
Date: 29 OCT.2019 15:16:29

Highest Channel / 1RB

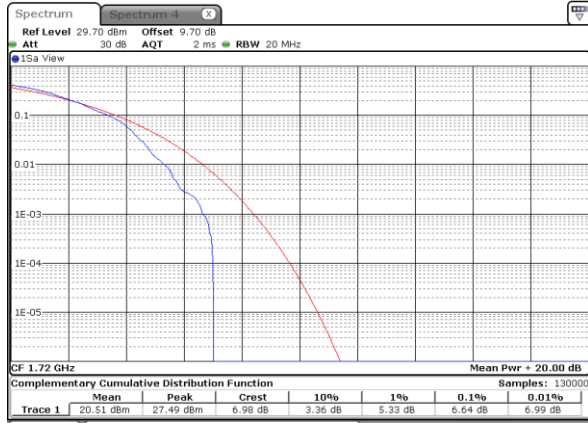


Date: 29 OCT.2019 15:14:40

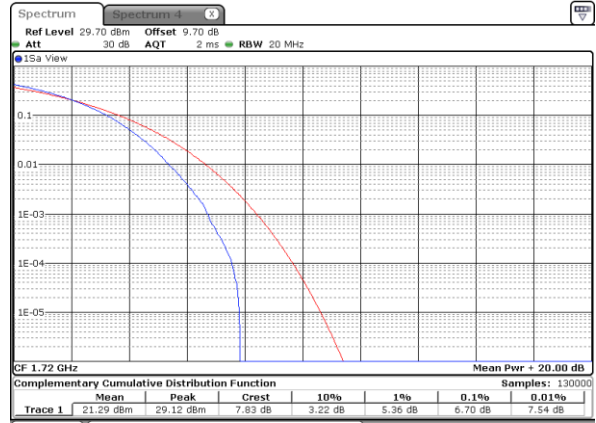
Highest Channel / Full RB



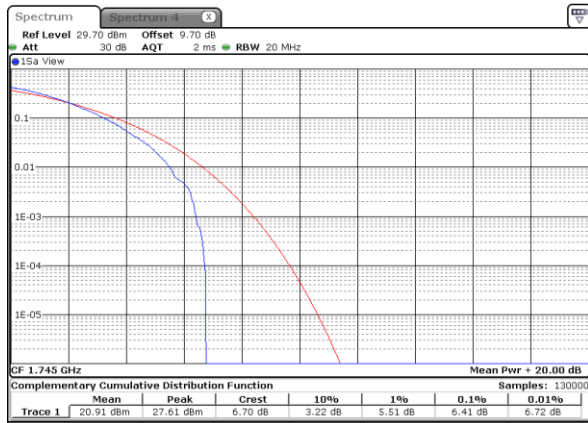
Date: 29 OCT.2019 15:13:57

LTE Band 66 / 20MHz / 64QAM
Lowest Channel / 1RB


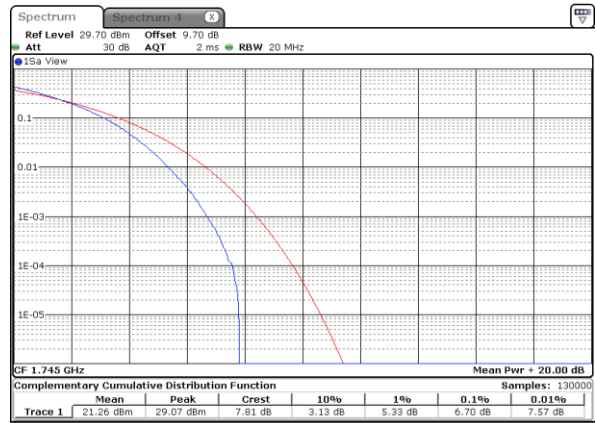
Date: 29 OCT.2019 15:17:56

Lowest Channel / Full RB


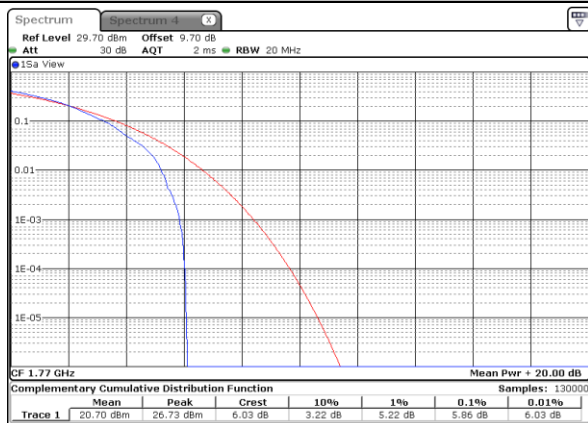
Date: 29 OCT.2019 15:17:42

Middle Channel / 1RB


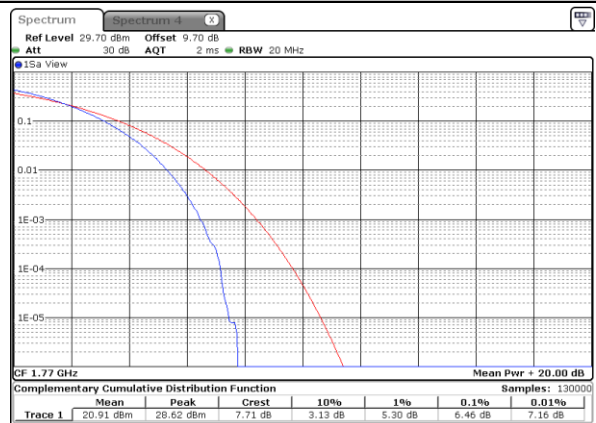
Date: 29 OCT.2019 15:15:59

Middle Channel / Full RB


Date: 29 OCT.2019 15:16:18

Highest Channel / 1RB


Date: 29 OCT.2019 15:14:52

Highest Channel / Full RB


Date: 29 OCT.2019 15:19:39

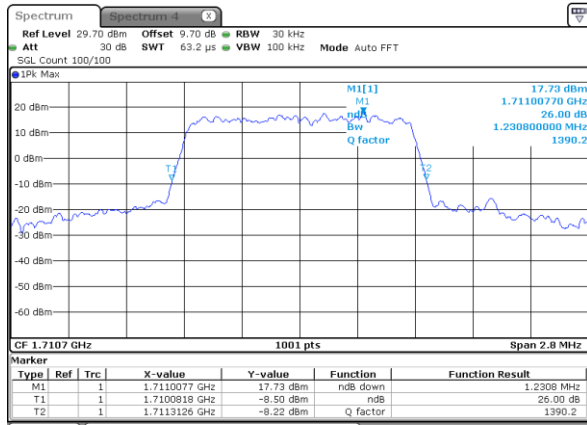
**26dB Bandwidth**

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	1.231	1.222	2.997	3.021	4.845	4.875	9.87	9.67	14.266	14.505	20.3	20.3
Middle CH	1.211	1.222	3.009	2.991	4.885	4.885	9.67	9.75	14.326	14.386	20.1	20.14
Highest CH	1.228	1.234	3.009	2.985	4.945	4.875	9.85	9.81	14.416	14.326	20.14	20.14
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.231		2.973		4.965		9.85		14.535		20.14	
Middle CH	1.239		3.021		4.855		9.73		14.565		20.26	
Highest CH	1.219		3.039		4.925		9.69		14.356		20.22	



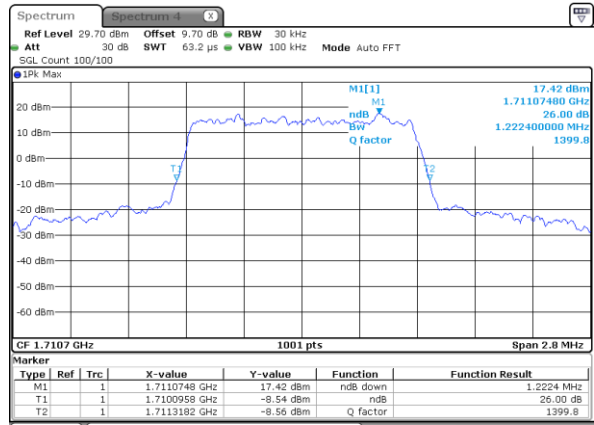
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



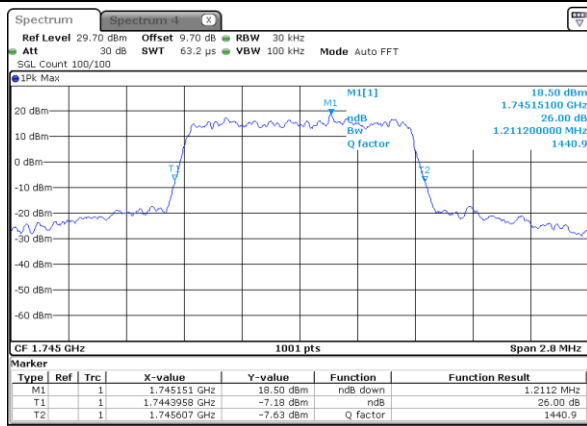
Date: 29 OCT 2019 11:01:33

Lowest Channel / 1.4MHz / 16QAM



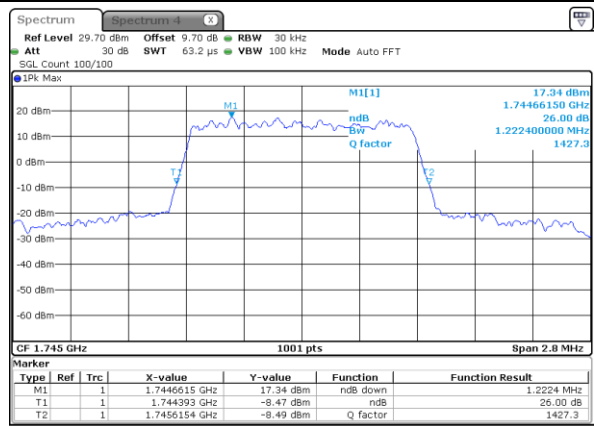
Date: 29 OCT 2019 11:02:22

Middle Channel / 1.4MHz / QPSK



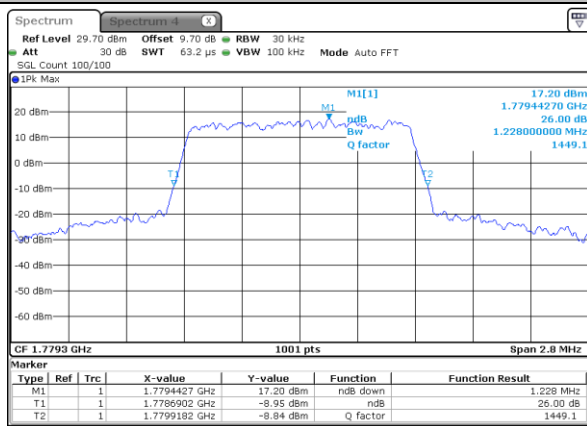
Date: 29 OCT 2019 11:03:52

Middle Channel / 1.4MHz / 16QAM



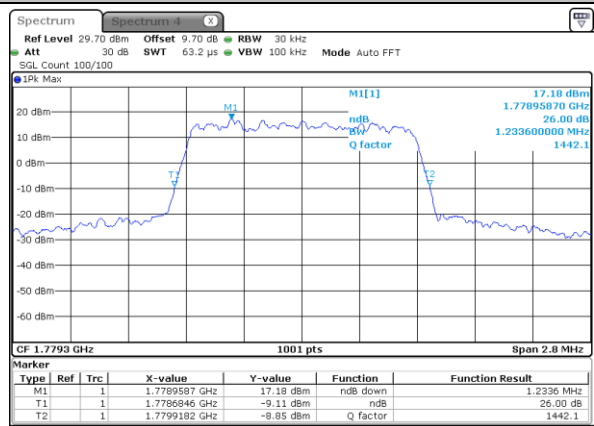
Date: 29 OCT 2019 11:03:39

Highest Channel / 1.4MHz / QPSK



Date: 29 OCT 2019 11:04:13

Highest Channel / 1.4MHz / 16QAM

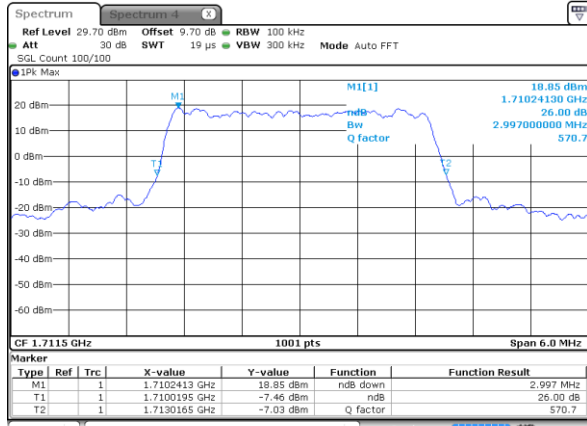


Date: 29 OCT 2019 11:04:30



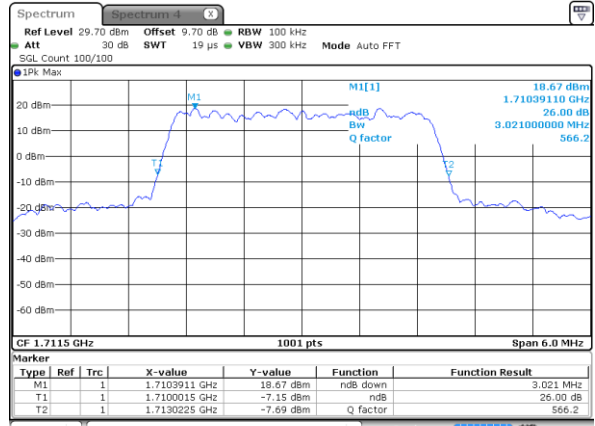
LTE Band 66

Lowest Channel / 3MHz / QPSK



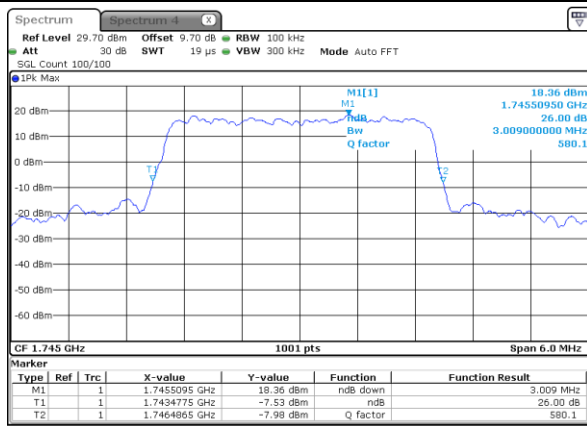
Date: 29 OCT 2019 11:43:08

Lowest Channel / 3MHz / 16QAM



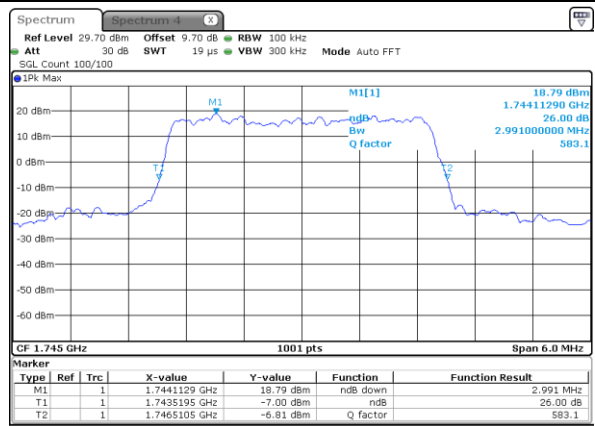
Date: 29 OCT 2019 11:42:08

Middle Channel / 3MHz / QPSK



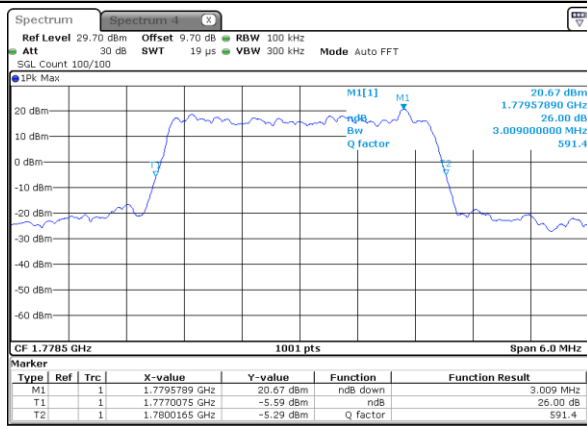
Date: 29 OCT 2019 11:51:27

Middle Channel / 3MHz / 16QAM



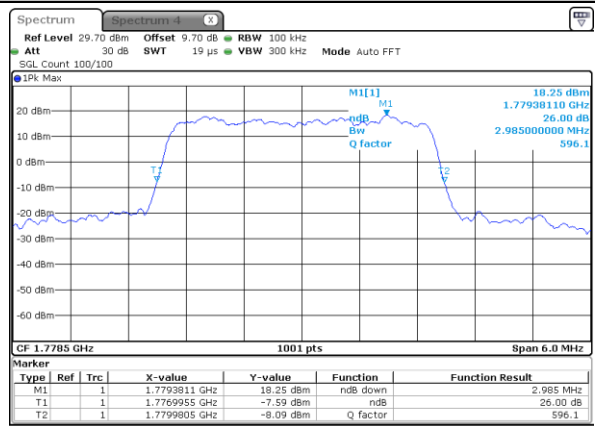
Date: 29 OCT 2019 11:51:48

Highest Channel / 3MHz / QPSK



Date: 29 OCT 2019 11:57:53

Highest Channel / 3MHz / 16QAM

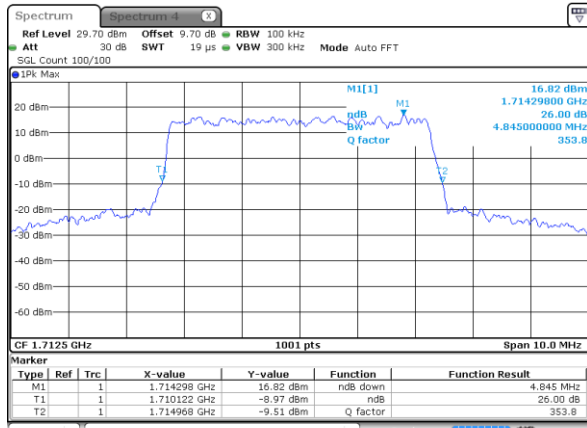


Date: 29 OCT 2019 11:54:40



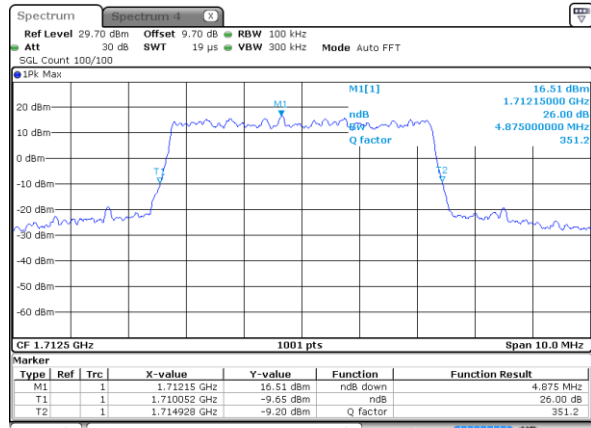
LTE Band 66

Lowest Channel / 5MHz / QPSK



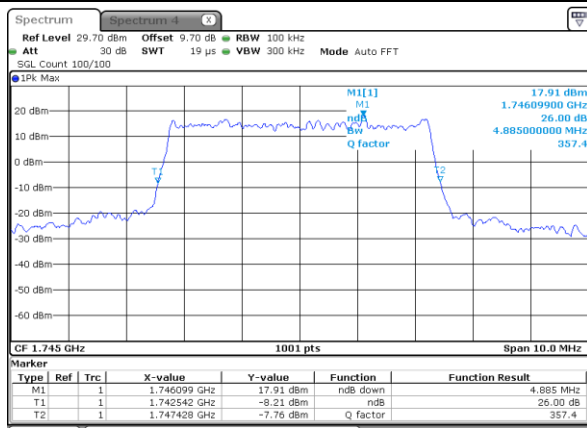
Date: 29 OCT.2019 13:40:54

Lowest Channel / 5MHz / 16QAM



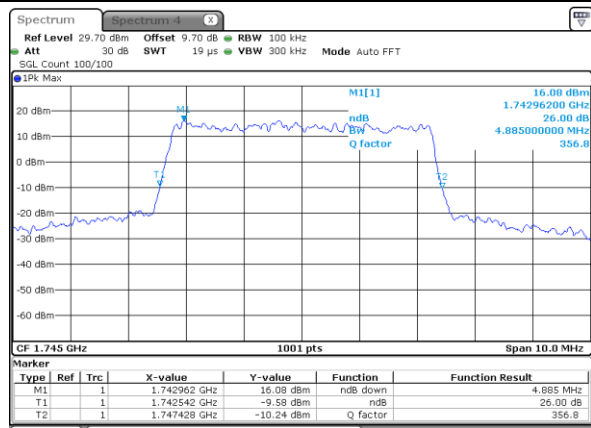
Date: 29 OCT.2019 13:42:12

Middle Channel / 5MHz / QPSK



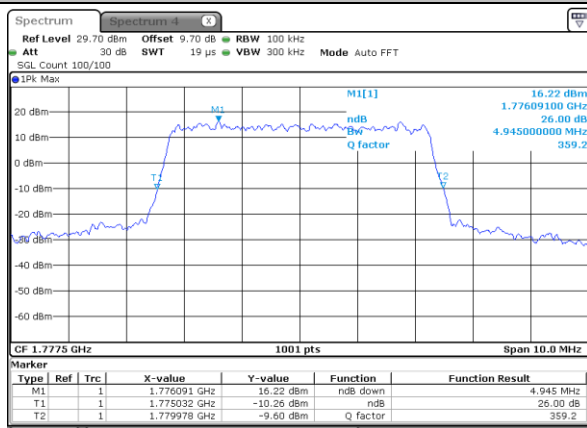
Date: 29 OCT.2019 13:51:10

Middle Channel / 5MHz / 16QAM



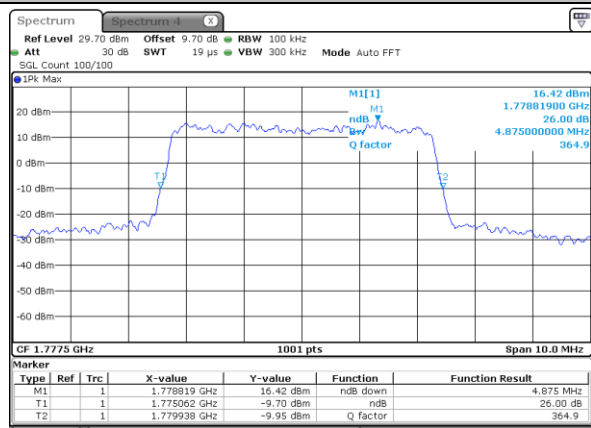
Date: 29 OCT.2019 13:50:47

Highest Channel / 5MHz / QPSK



Date: 29 OCT.2019 13:52:04

Highest Channel / 5MHz / 16QAM

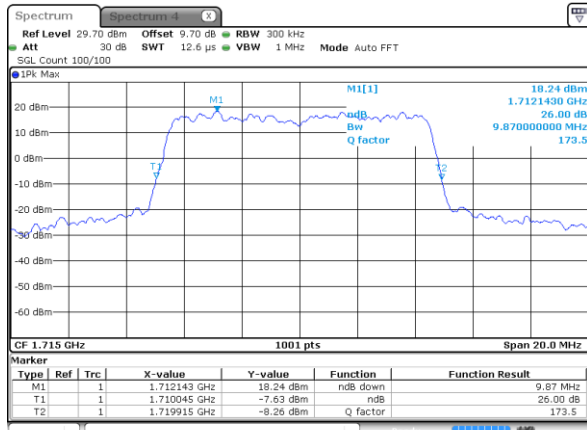


Date: 29 OCT.2019 13:52:55



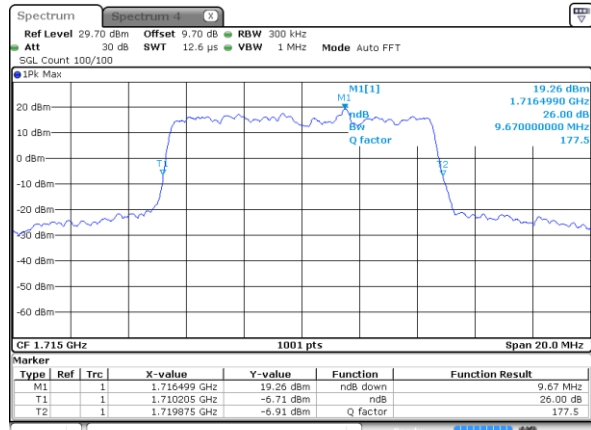
LTE Band 66

Lowest Channel / 10MHz / QPSK



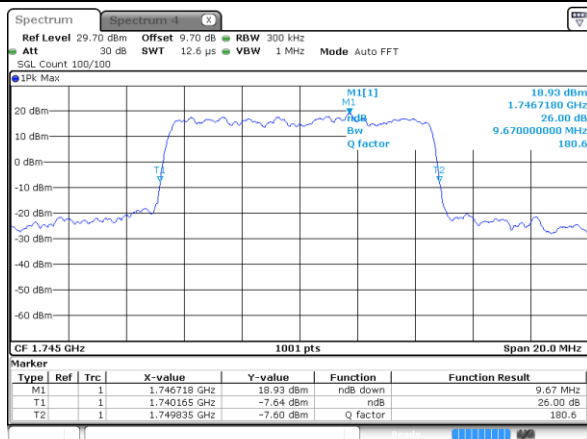
Date: 29.OCT.2019 14:01:34

Lowest Channel / 10MHz / 16QAM



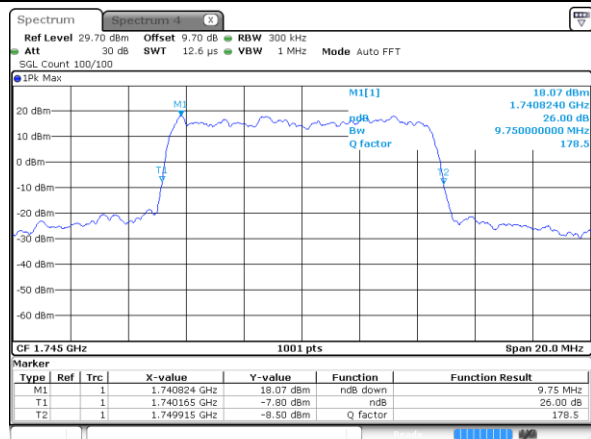
Date: 29.OCT.2019 14:02:07

Middle Channel / 10MHz / QPSK



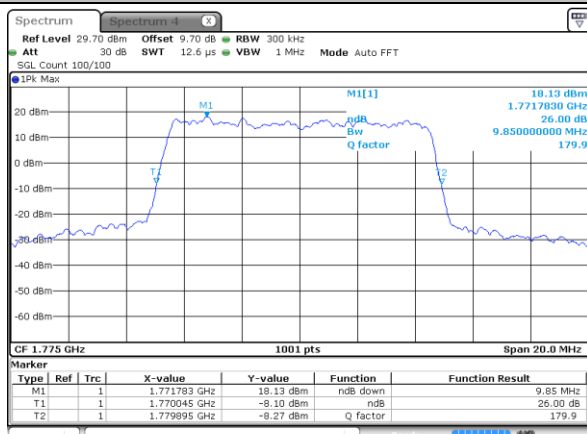
Date: 29.OCT.2019 14:13:42

Middle Channel / 10MHz / 16QAM



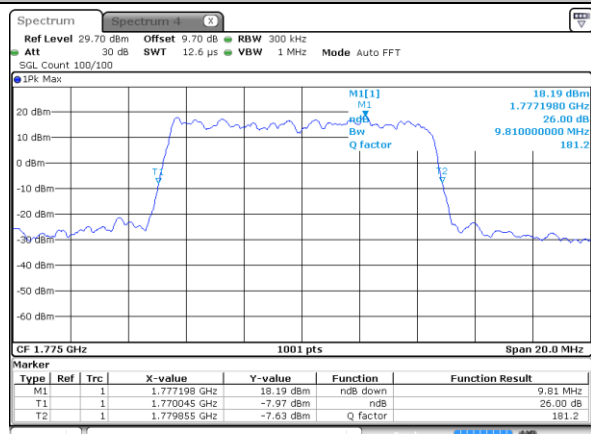
Date: 29.OCT.2019 14:14:01

Highest Channel / 10MHz / QPSK



Date: 29.OCT.2019 14:17:35

Highest Channel / 10MHz / 16QAM

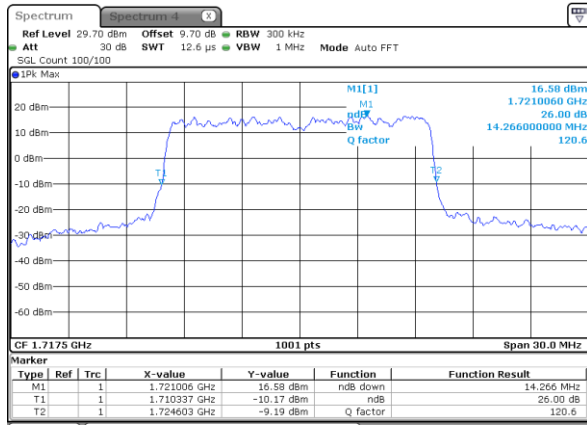


Date: 29.OCT.2019 14:18:09



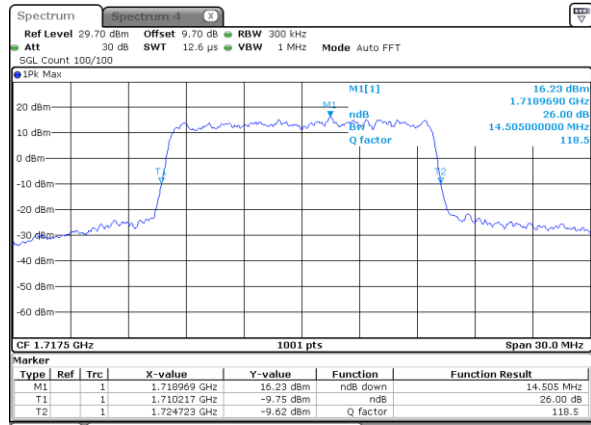
LTE Band 66

Lowest Channel / 15MHz / QPSK



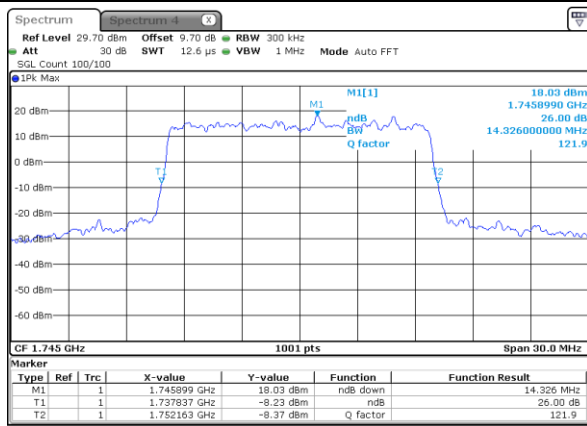
Date: 29 OCT 2019 14:26:37

Lowest Channel / 15MHz / 16QAM



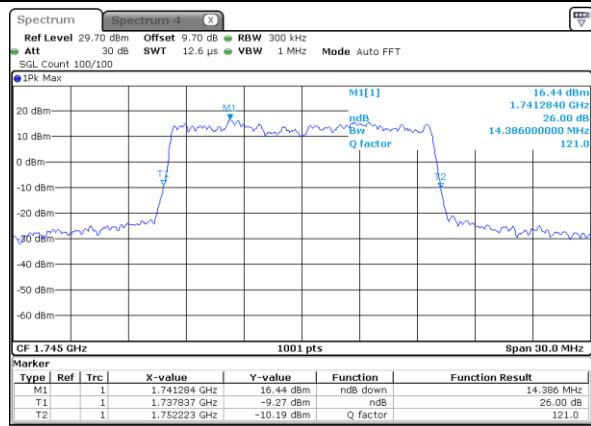
Date: 29 OCT 2019 14:27:18

Middle Channel / 15MHz / QPSK



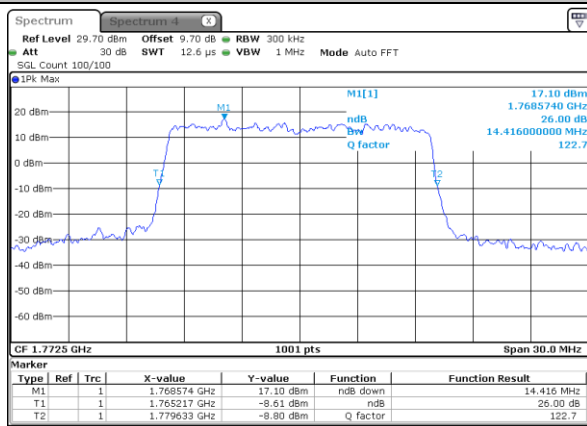
Date: 29 OCT 2019 14:32:04

Middle Channel / 15MHz / 16QAM



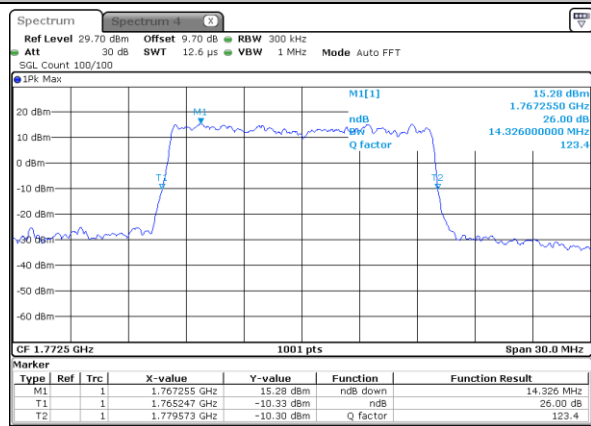
Date: 29 OCT 2019 14:32:23

Highest Channel / 15MHz / QPSK



Date: 29 OCT 2019 14:36:21

Highest Channel / 15MHz / 16QAM

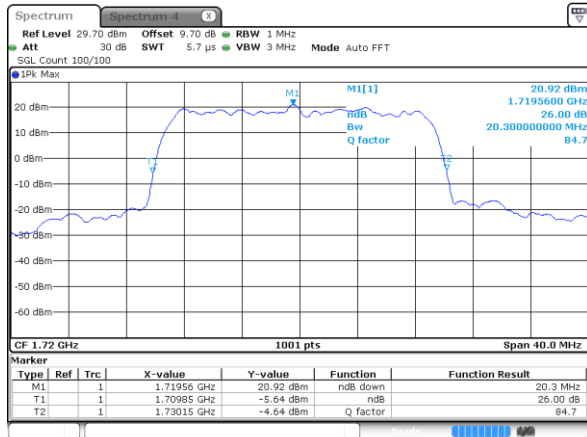


Date: 29 OCT 2019 14:37:05

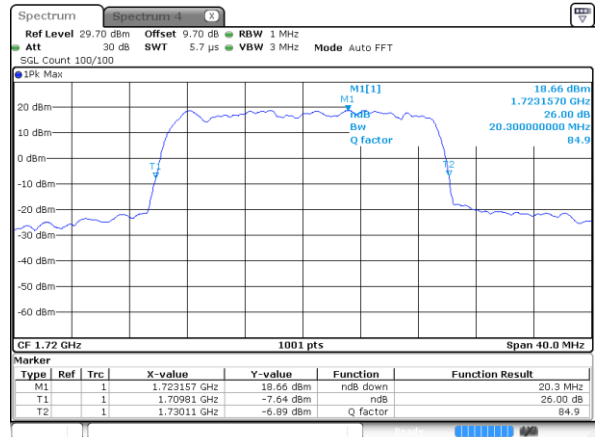


LTE Band 66

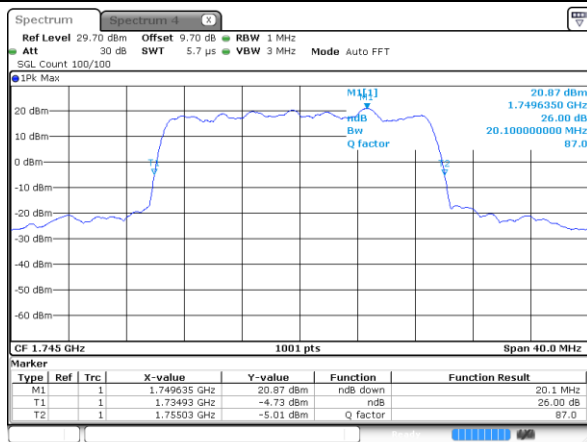
Lowest Channel / 20MHz / QPSK



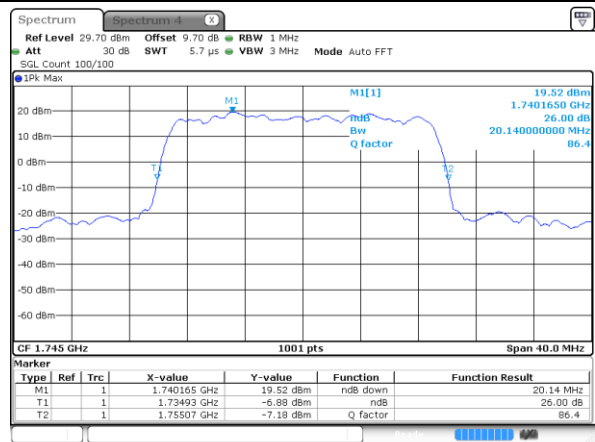
Lowest Channel / 20MHz / 16QAM



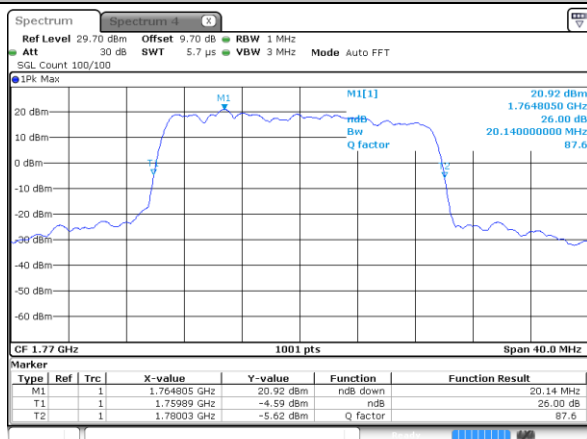
Middle Channel / 20MHz / QPSK



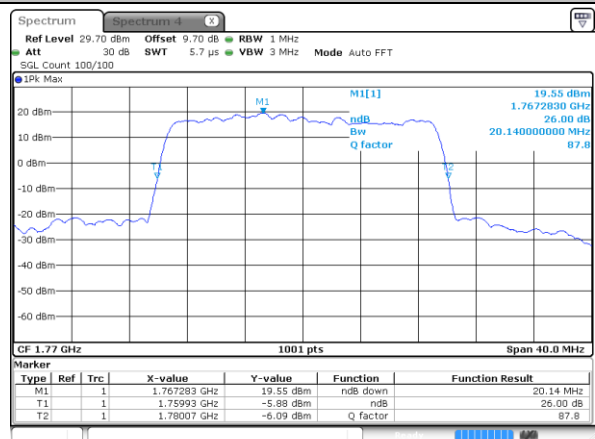
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



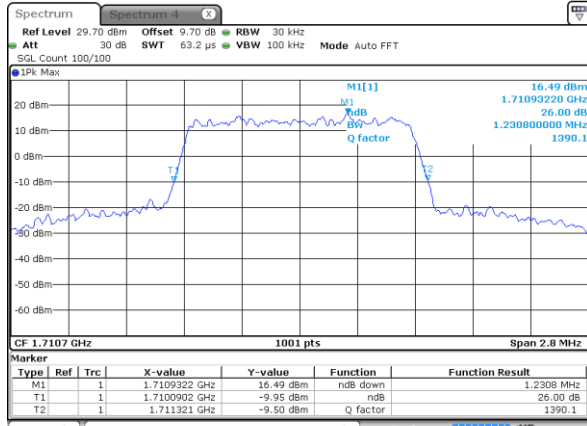
Highest Channel / 20MHz / 16QAM





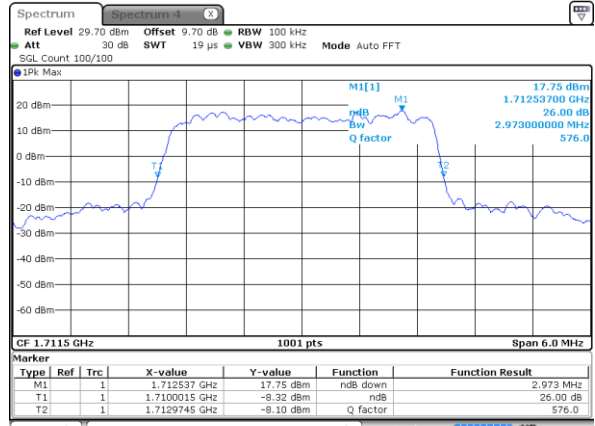
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



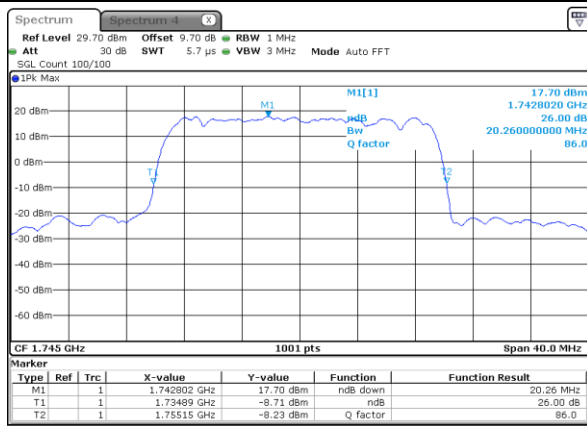
Date: 29 OCT 2019 11:02:38

Lowest Channel / 3MHz / 64QAM



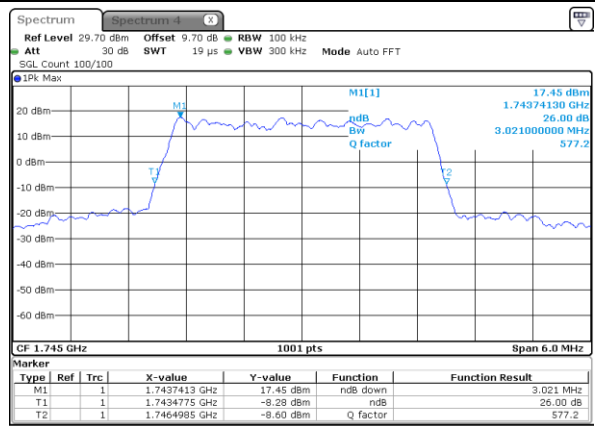
Date: 29 OCT 2019 11:40:45

Middle Channel / 20MHz / 64QAM



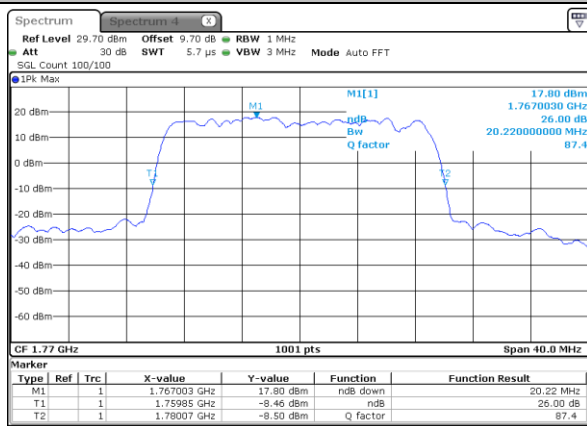
Date: 29 OCT 2019 14:55:20

Middle Channel / 3MHz / 64QAM



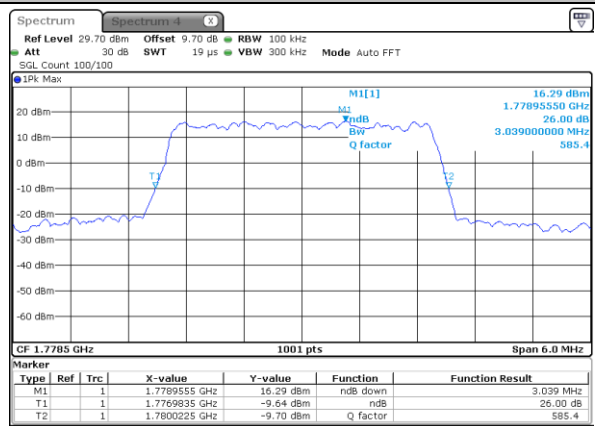
Date: 29 OCT 2019 11:52:05

Highest Channel / 20MHz / 64QAM



Date: 29 OCT 2019 15:02:44

Highest Channel / 3MHz / 64QAM

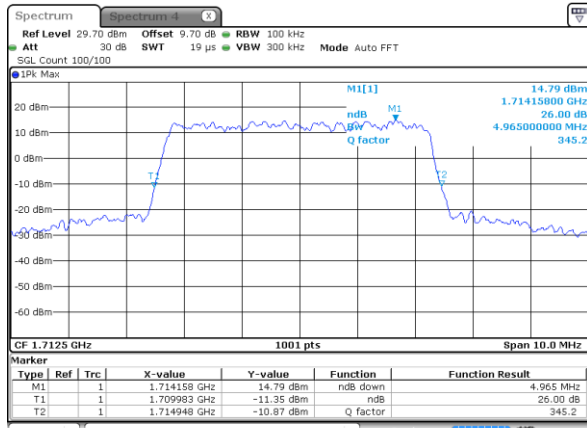


Date: 29 OCT 2019 11:56:15



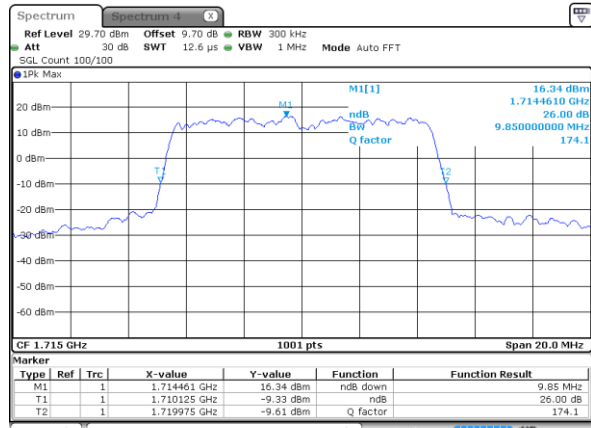
LTE Band 66

Lowest Channel / 5MHz / 64QAM



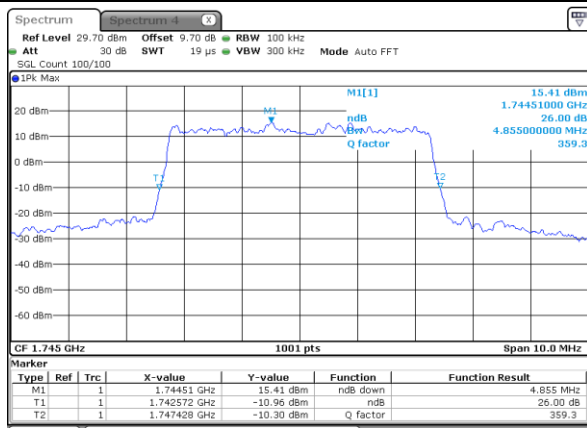
Date: 29 OCT 2019 13:42:49

Lowest Channel / 10MHz / 64QAM



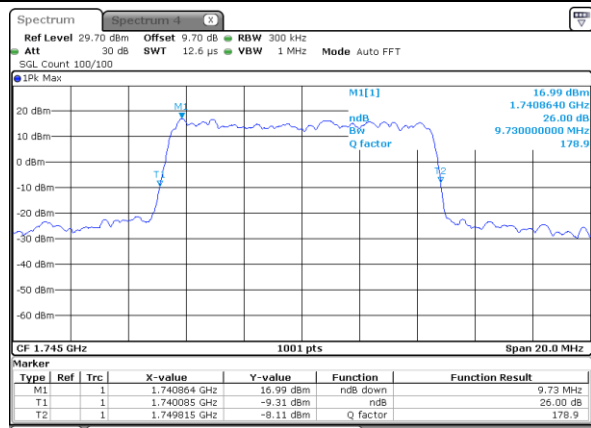
Date: 29 OCT 2019 14:02:35

Middle Channel / 5MHz / 64QAM



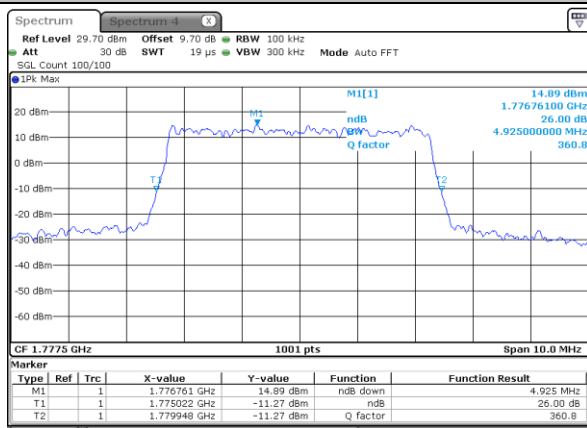
Date: 29 OCT 2019 13:50:23

Middle Channel / 10MHz / 64QAM



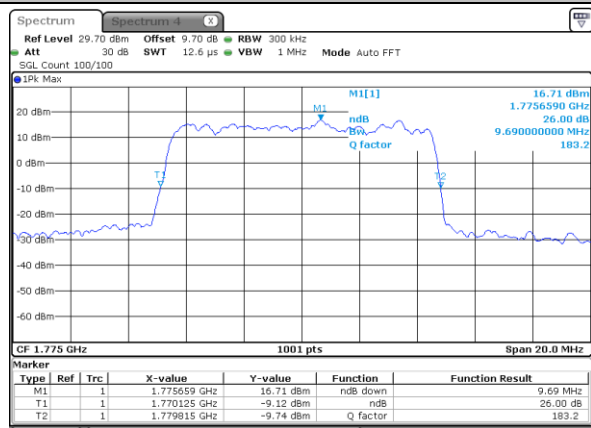
Date: 29 OCT 2019 14:14:20

Highest Channel / 5MHz / 64QAM



Date: 29 OCT 2019 13:53:41

Highest Channel / 10MHz / 64QAM

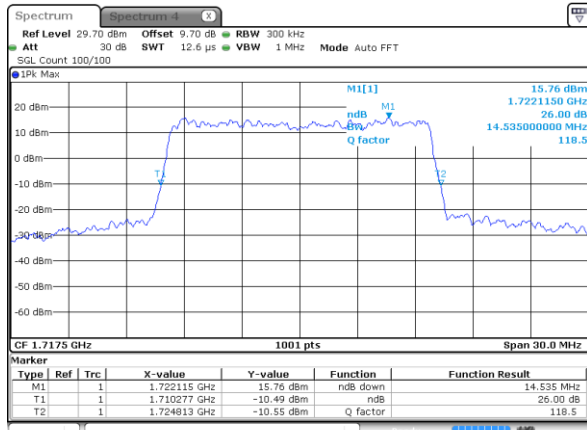


Date: 29 OCT 2019 14:18:37

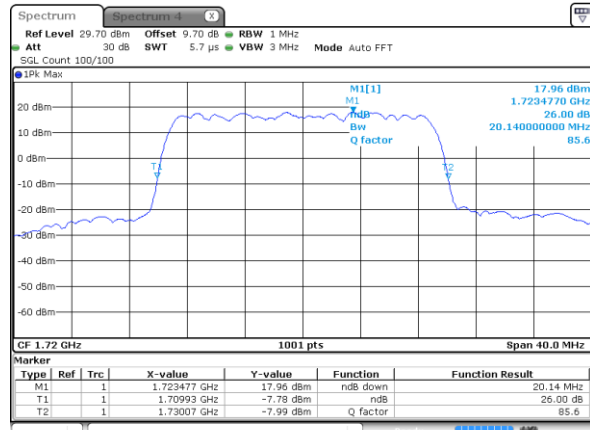


LTE Band 66

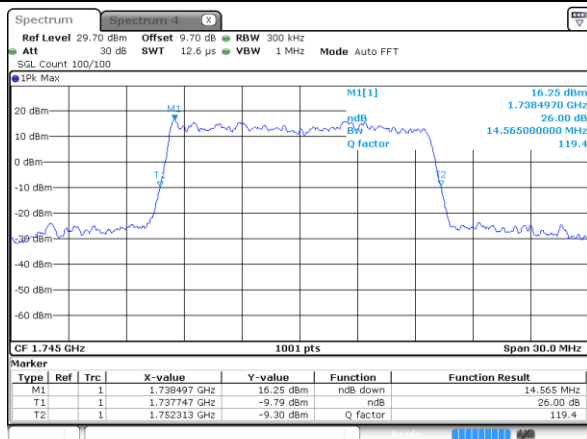
Lowest Channel / 15MHz / 64QAM



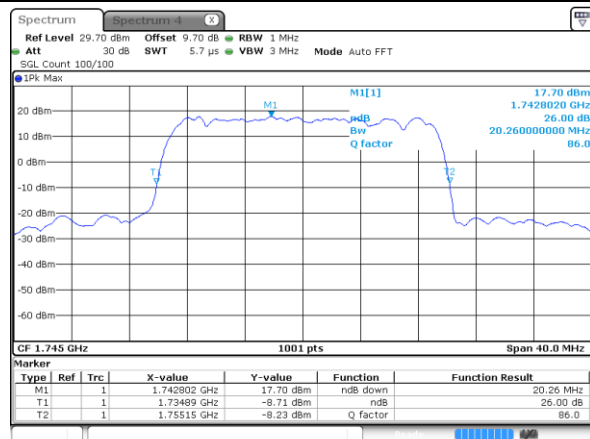
Lowest Channel / 20MHz / 64QAM



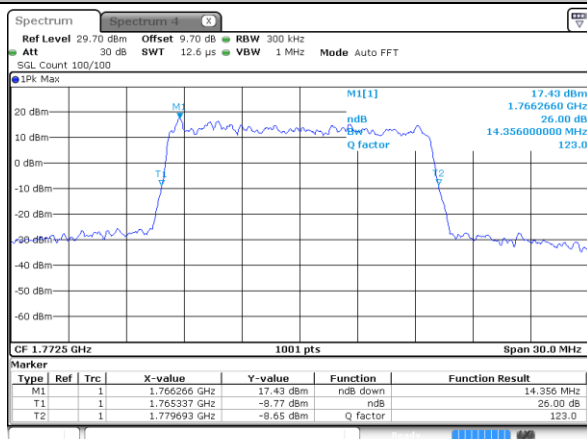
Middle Channel / 15MHz / 64QAM



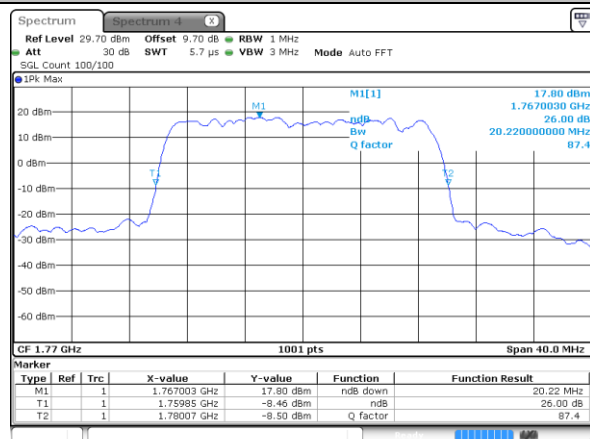
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



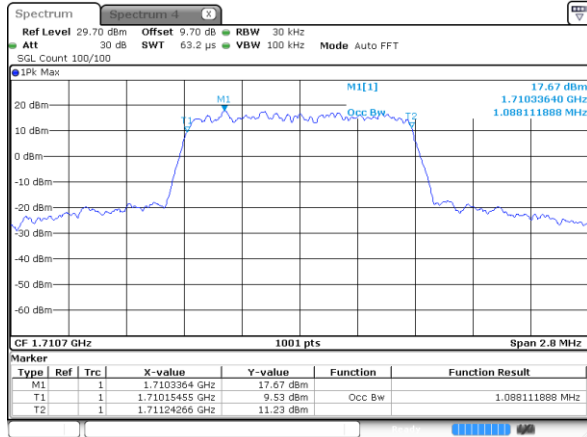
**Occupied Bandwidth**

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	1.09	1.09	2.72	2.72	4.51	4.50	9.01	9.03	13.34	13.43	18.30	18.50
Middle CH	1.09	1.09	2.72	2.73	4.51	4.50	8.99	9.01	13.37	13.43	18.42	18.34
Highest CH	1.09	1.10	2.72	2.72	4.49	4.50	9.01	9.07	13.40	13.40	18.22	18.46
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		4.48		8.99		13.46		18.26	
Middle CH	1.09		2.73		4.49		8.97		13.40		18.38	
Highest CH	1.09		2.72		4.51		9.01		13.43		18.26	

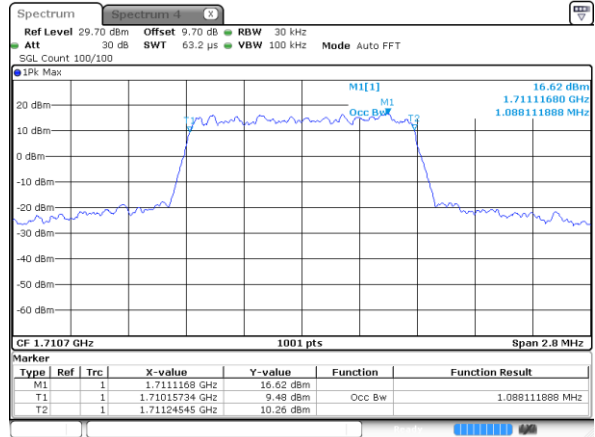


LTE Band 66

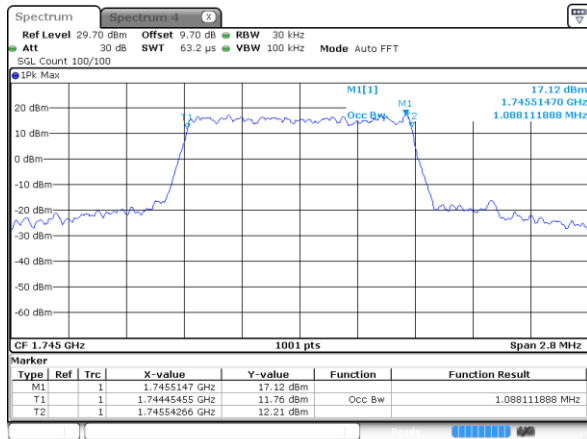
Lowest Channel / 1.4MHz / QPSK



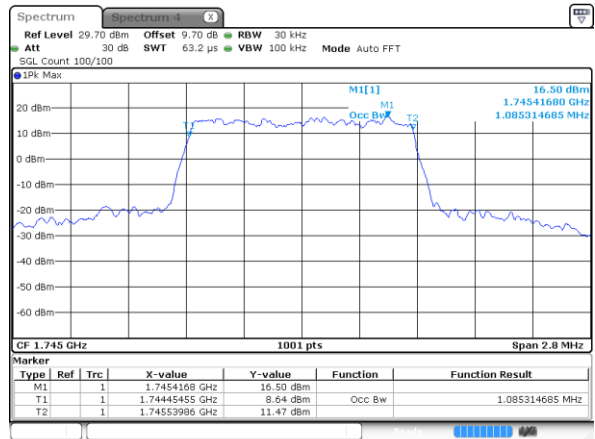
Lowest Channel / 1.4MHz / 16QAM



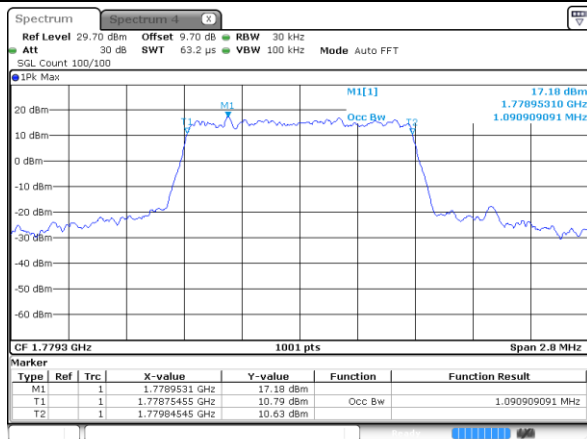
Middle Channel / 1.4MHz / QPSK



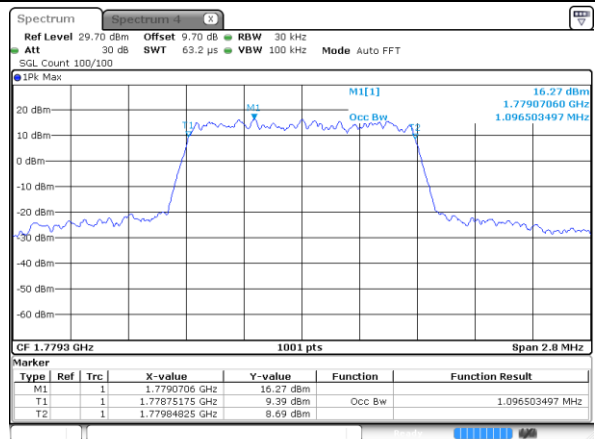
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



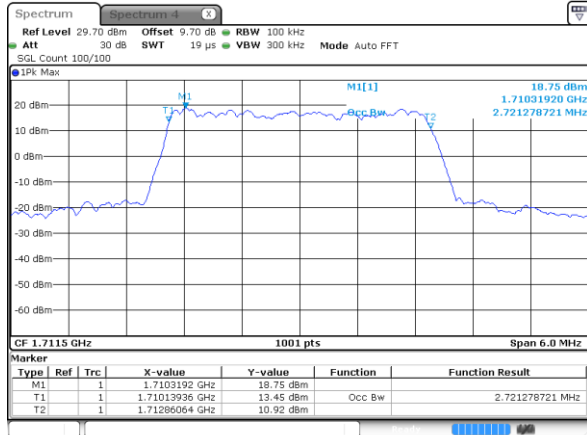
Highest Channel / 1.4MHz / 16QAM





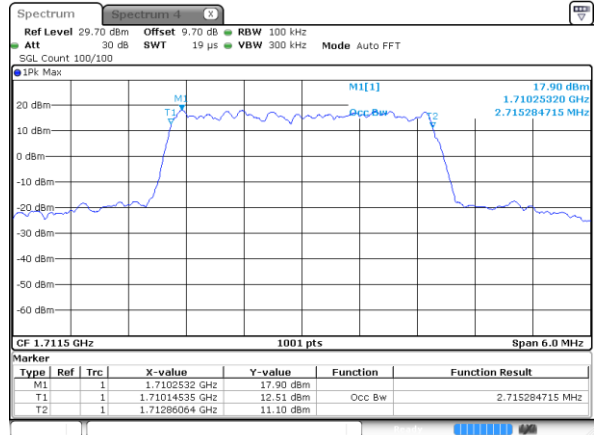
LTE Band 66

Lowest Channel / 3MHz / QPSK



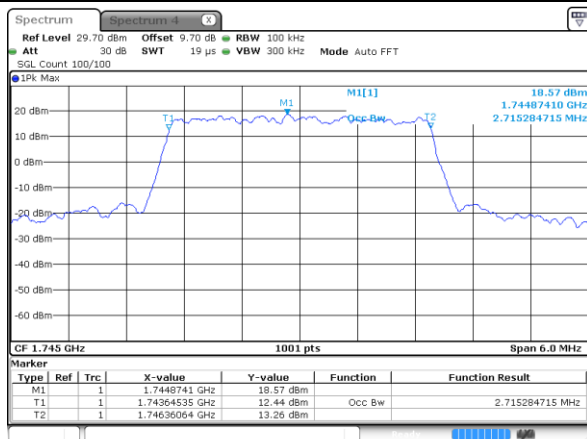
Date: 29 OCT 2019 11:43:01

Lowest Channel / 3MHz / 16QAM



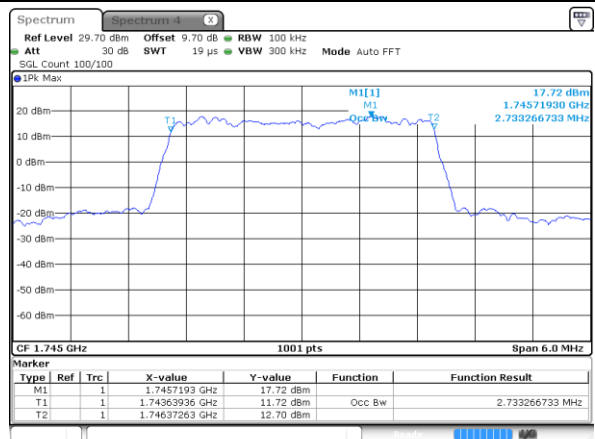
Date: 29 OCT 2019 11:42:01

Middle Channel / 3MHz / QPSK



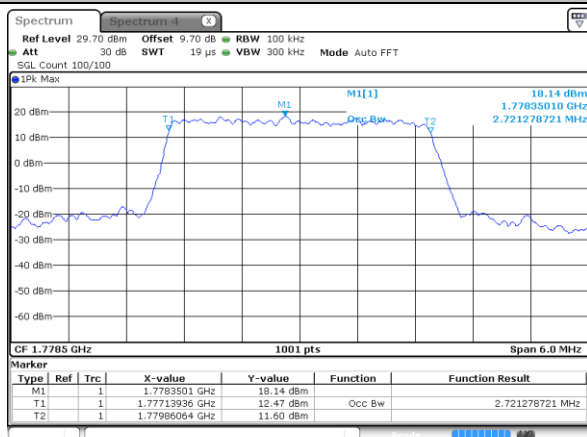
Date: 29 OCT 2019 11:51:20

Middle Channel / 3MHz / 16QAM



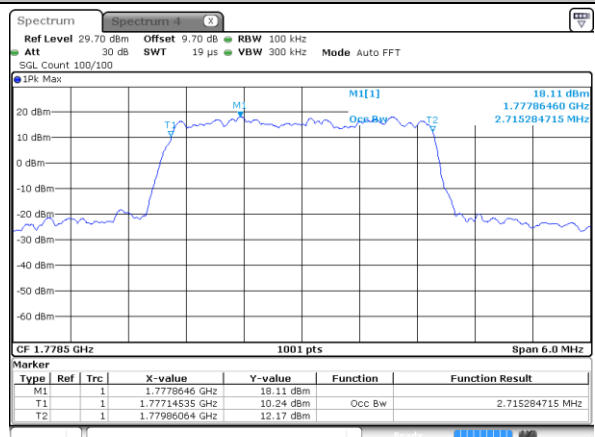
Date: 29 OCT 2019 11:51:41

Highest Channel / 3MHz / QPSK



Date: 29 OCT 2019 11:57:47

Highest Channel / 3MHz / 16QAM

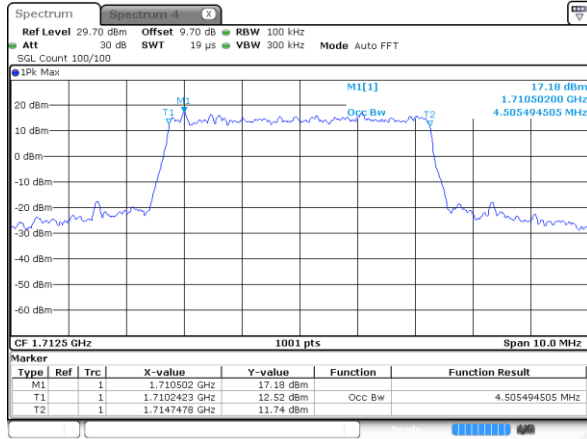


Date: 29 OCT 2019 11:54:34

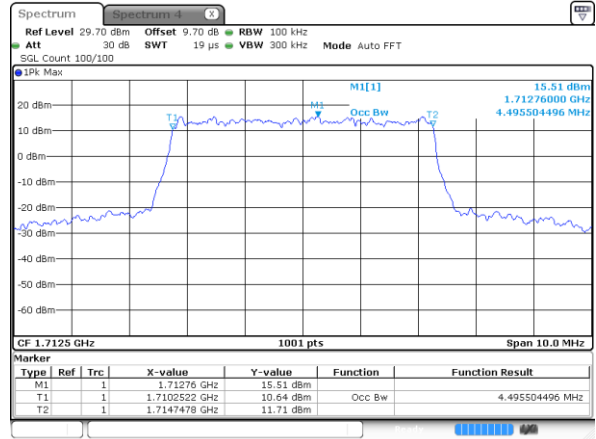


LTE Band 66

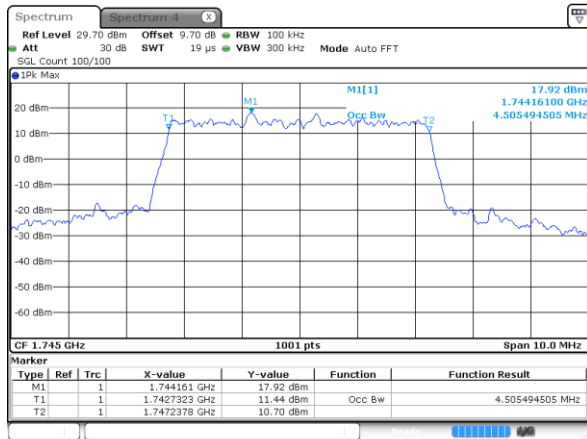
Lowest Channel / 5MHz / QPSK



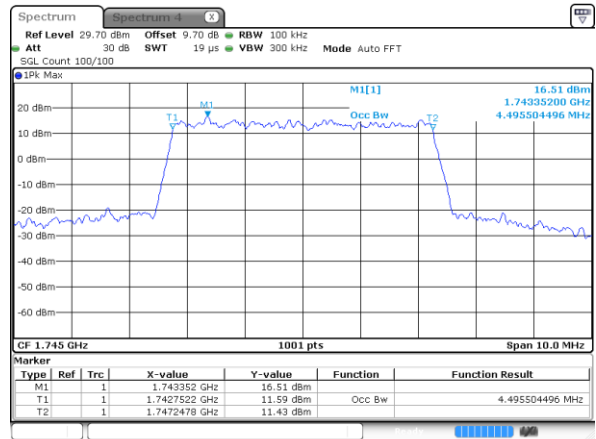
Lowest Channel / 5MHz / 16QAM



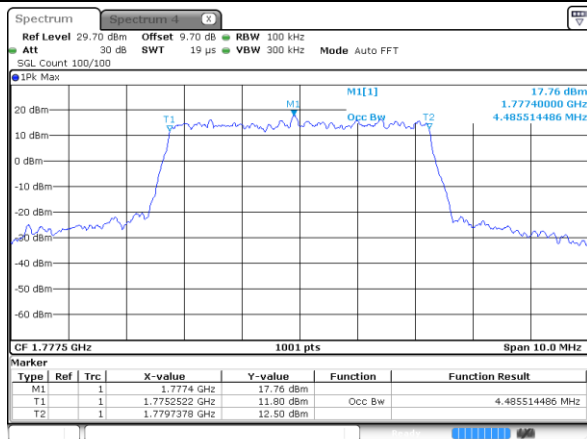
Middle Channel / 5MHz / QPSK



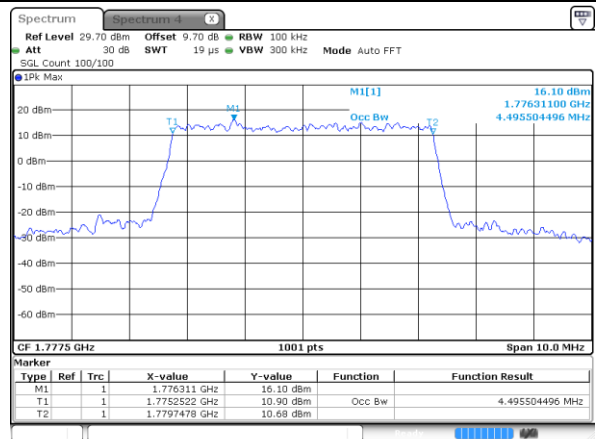
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



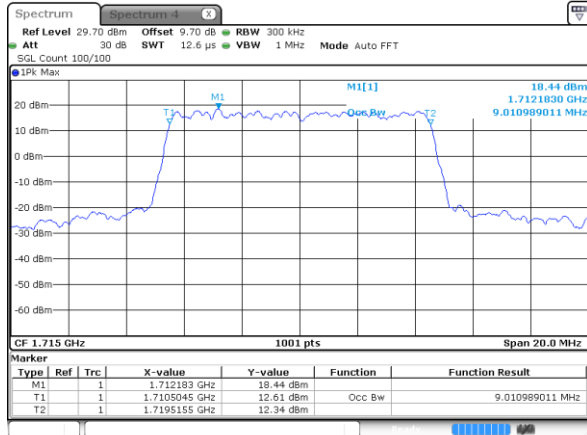
Highest Channel / 5MHz / 16QAM





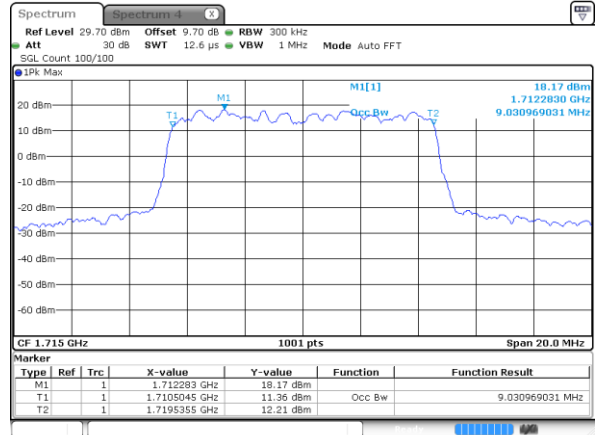
LTE Band 66

Lowest Channel / 10MHz / QPSK



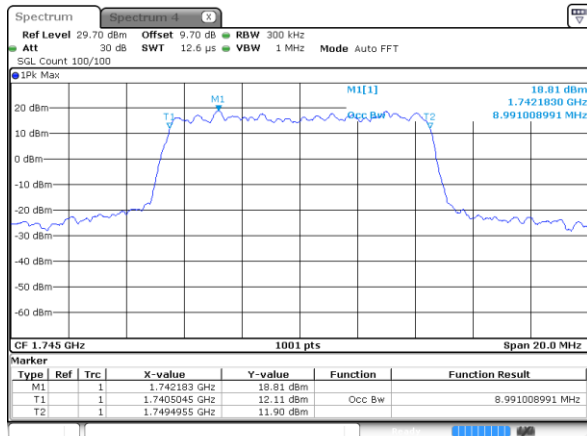
Date: 29 OCT 2019 14:01:28

Lowest Channel / 10MHz / 16QAM



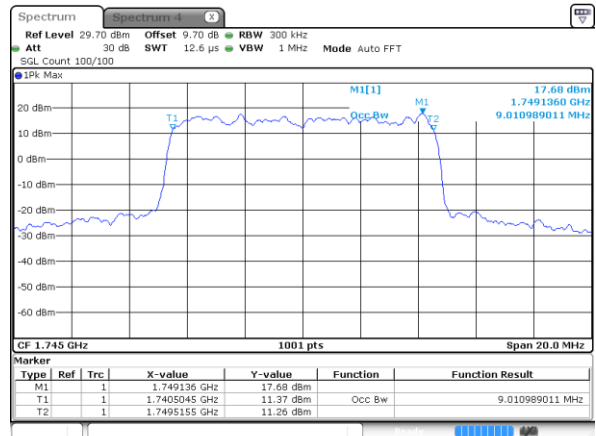
Date: 29 OCT 2019 14:02:01

Middle Channel / 10MHz / QPSK



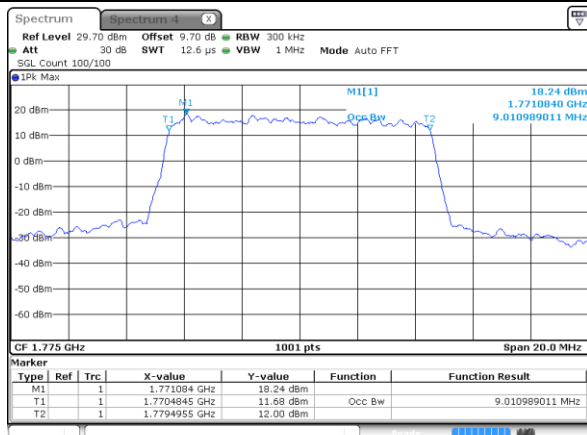
Date: 29 OCT 2019 14:13:36

Middle Channel / 10MHz / 16QAM



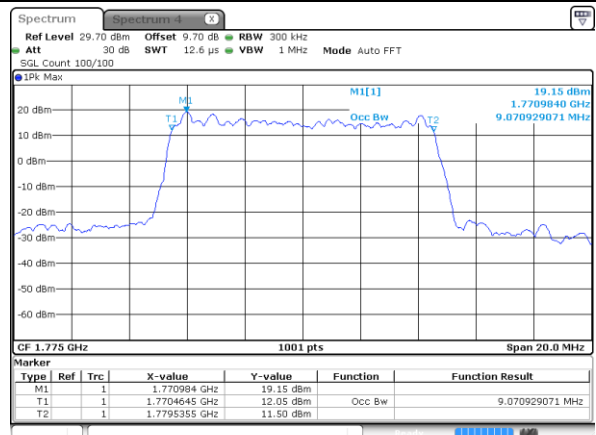
Date: 29 OCT 2019 14:13:55

Highest Channel / 10MHz / QPSK



Date: 29 OCT 2019 14:17:27

Highest Channel / 10MHz / 16QAM

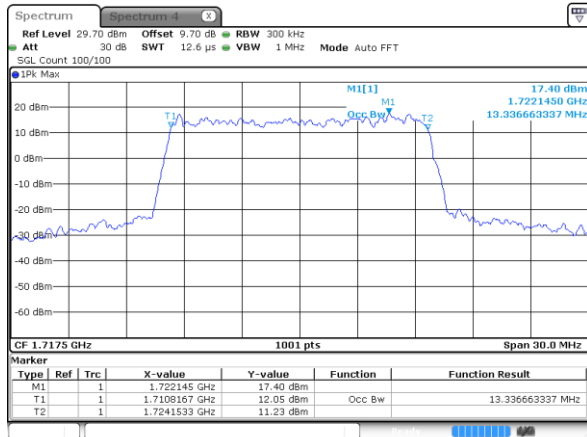


Date: 29 OCT 2019 14:18:02



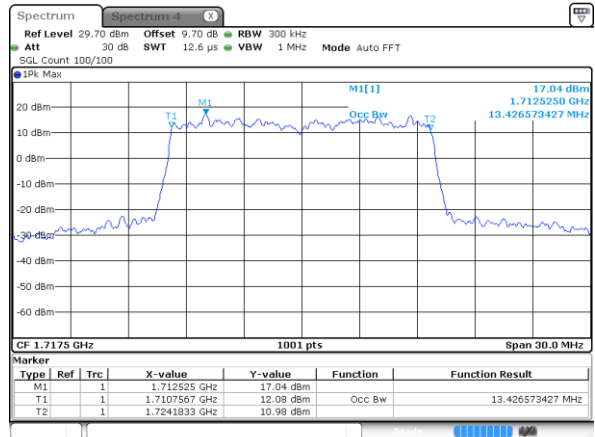
LTE Band 66

Lowest Channel / 15MHz / QPSK



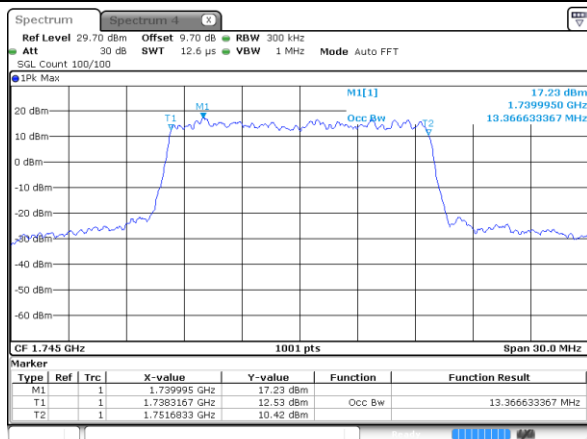
Date: 29 OCT 2019 14:26:30

Lowest Channel / 15MHz / 16QAM



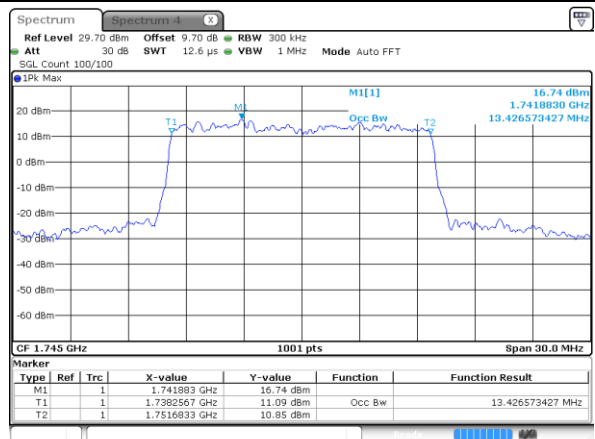
Date: 29 OCT 2019 14:27:11

Middle Channel / 15MHz / QPSK



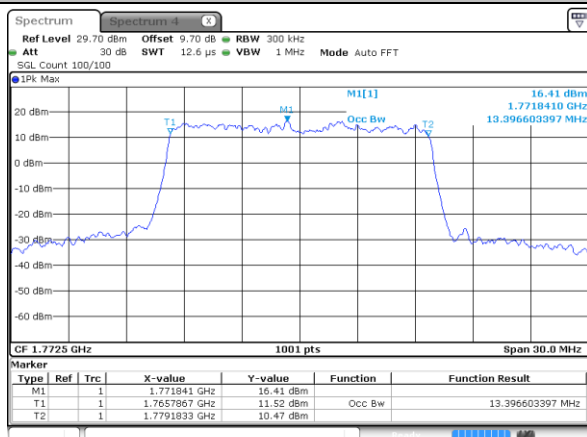
Date: 29 OCT 2019 14:31:54

Middle Channel / 15MHz / 16QAM



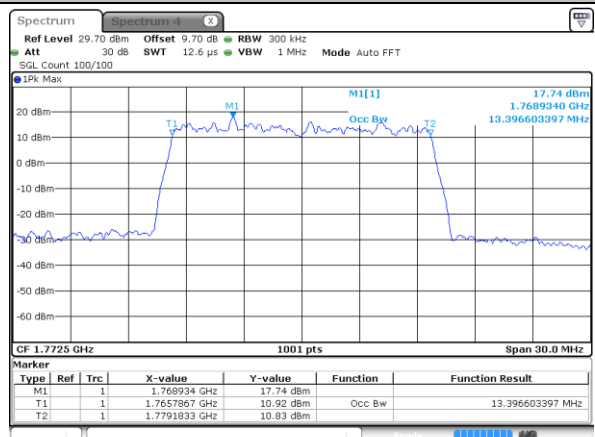
Date: 29 OCT 2019 14:32:15

Highest Channel / 15MHz / QPSK



Date: 29 OCT 2019 14:36:14

Highest Channel / 15MHz / 16QAM

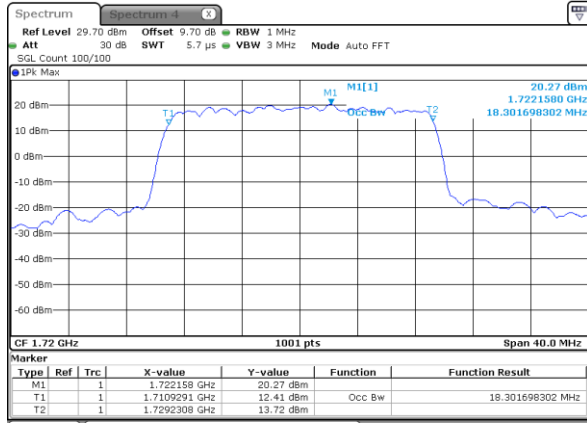


Date: 29 OCT 2019 14:36:58



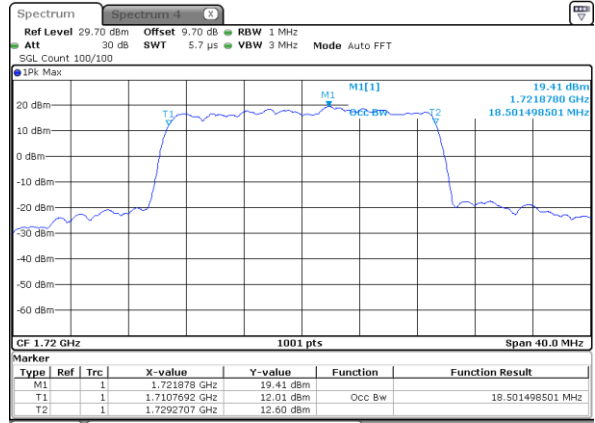
LTE Band 66

Lowest Channel / 20MHz / QPSK



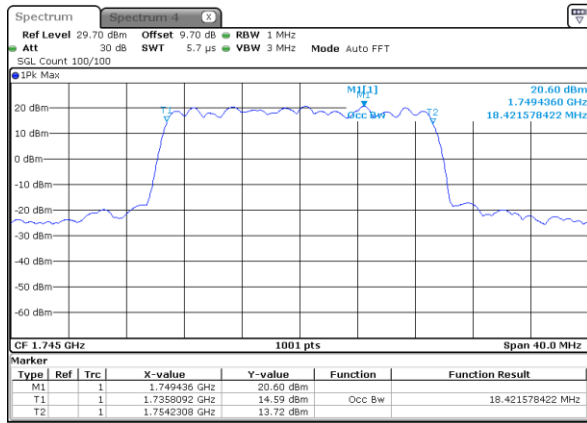
Date: 29 OCT 2019 14:47:58

Lowest Channel / 20MHz / 16QAM



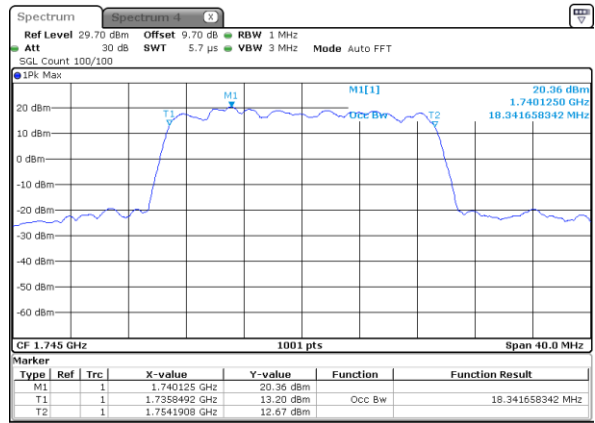
Date: 29 OCT 2019 14:48:31

Middle Channel / 20MHz / QPSK



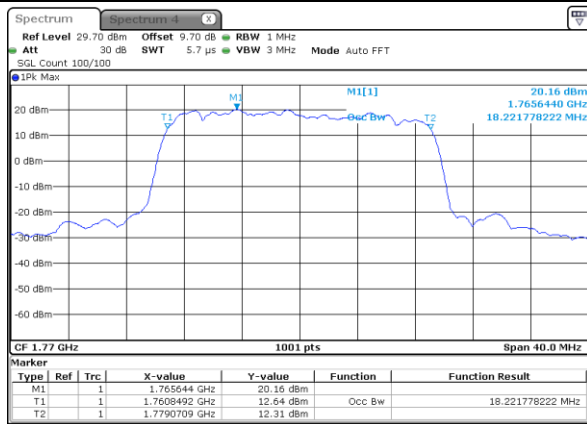
Date: 29 OCT 2019 14:55:52

Middle Channel / 20MHz / 16QAM



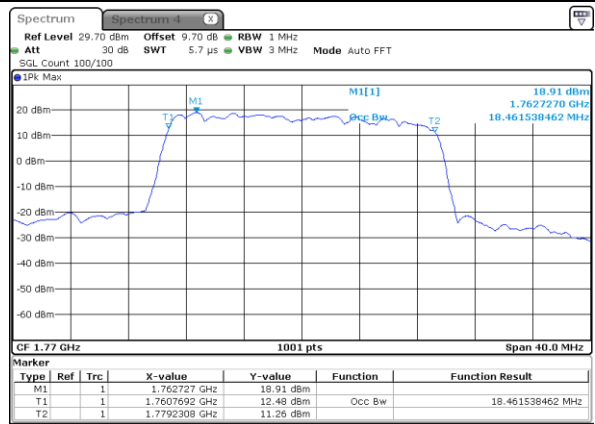
Date: 29 OCT 2019 14:55:33

Highest Channel / 20MHz / QPSK



Date: 29 OCT 2019 15:01:39

Highest Channel / 20MHz / 16QAM

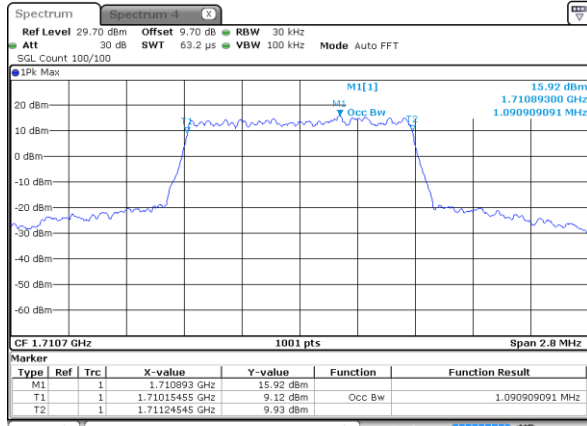


Date: 29 OCT 2019 15:02:06

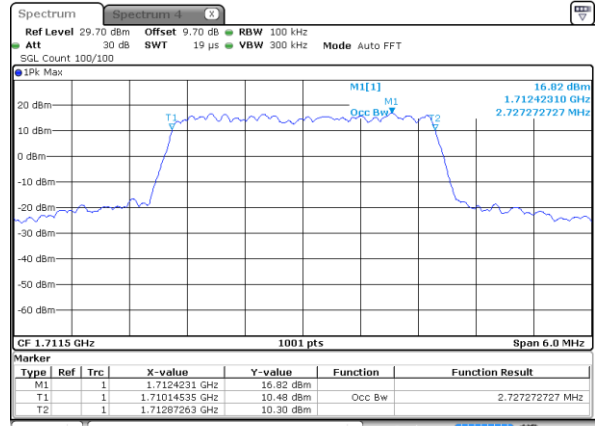


LTE Band 66

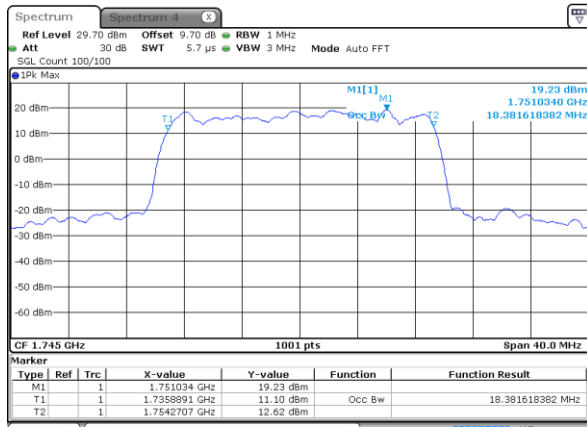
Lowest Channel / 1.4MHz / 64QAM



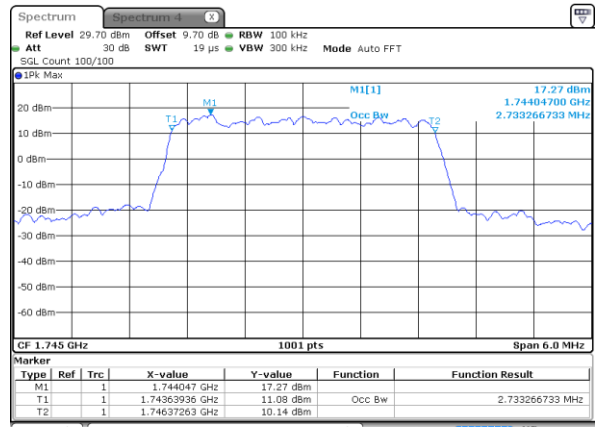
Lowest Channel / 3MHz / 64QAM



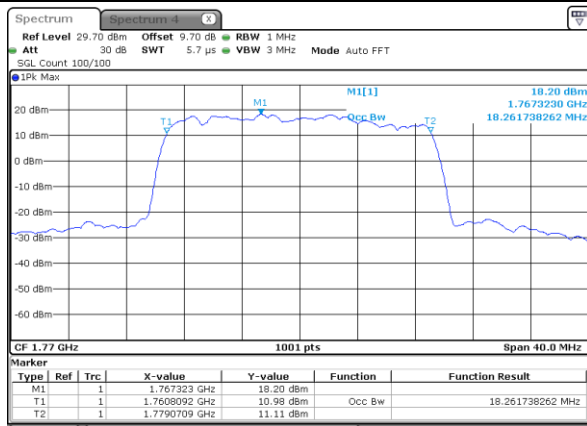
Middle Channel / 20MHz / 64QAM



Middle Channel / 3MHz / 64QAM



Highest Channel / 20MHz / 64QAM



Highest Channel / 3MHz / 64QAM

