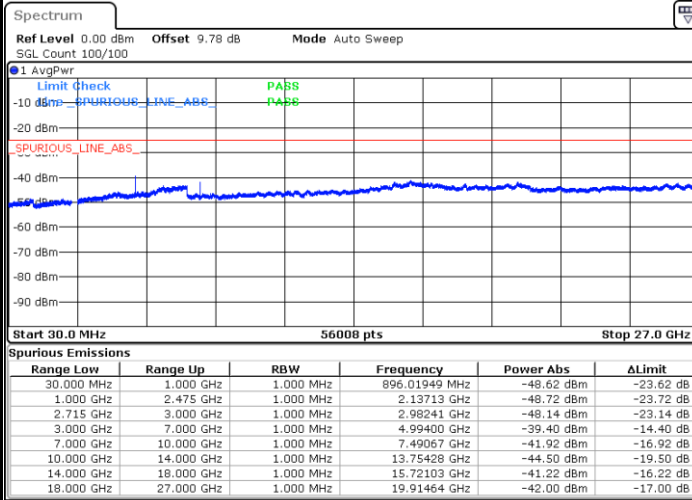




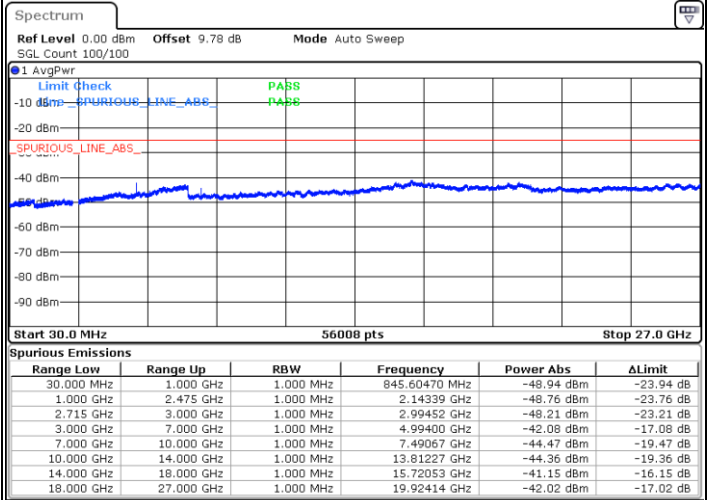
LTE Band 41 / 15MHz

Lowest Channel / QPSK



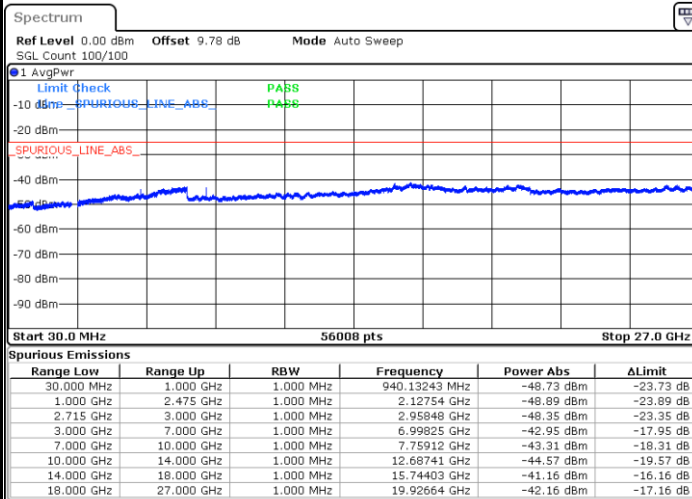
Date: 17.OCT.2018 15:36:47

Lowest Channel / 16QAM



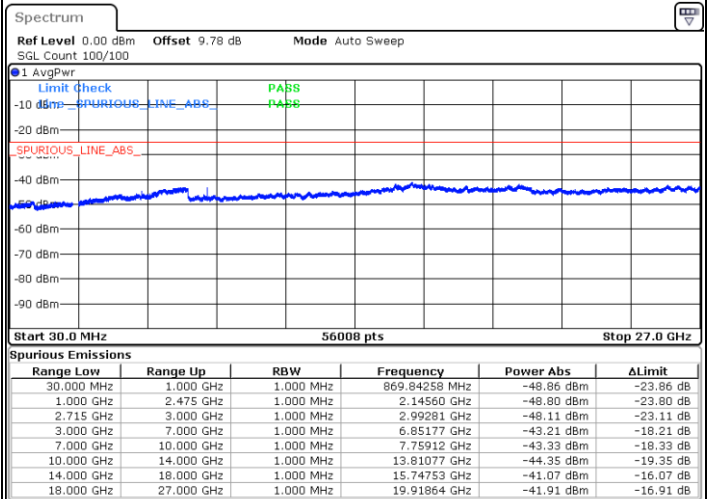
Date: 17.OCT.2018 15:37:41

Middle Channel / QPSK



Date: 17.OCT.2018 15:38:36

Middle Channel / 16QAM

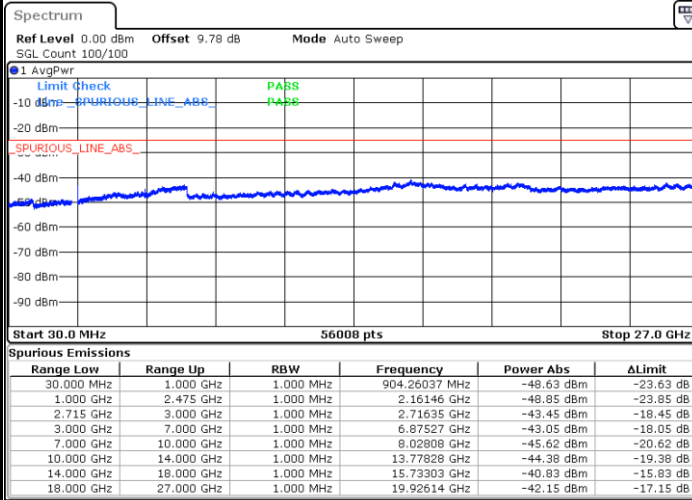


Date: 17.OCT.2018 15:39:30



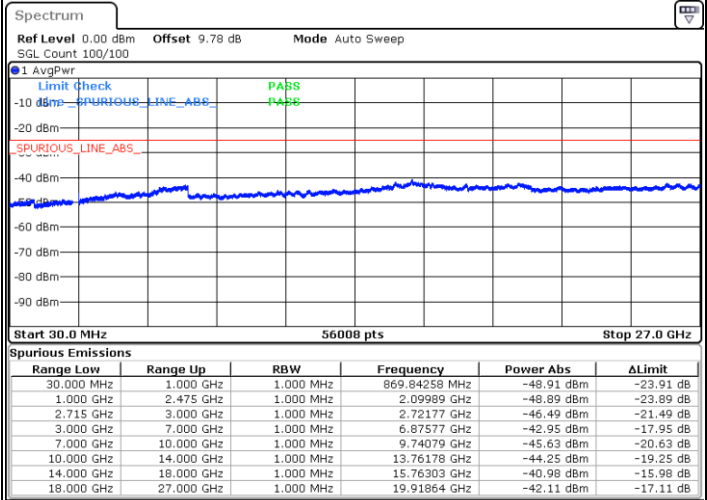
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 17.OCT.2018 15:40:25

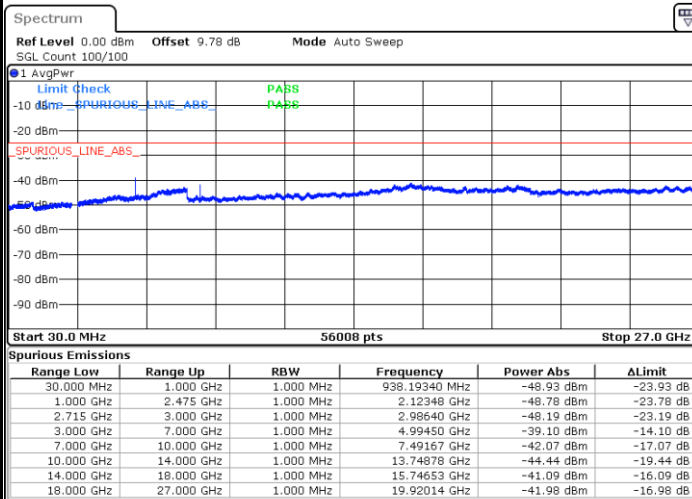
Highest Channel / 16QAM



Date: 17.OCT.2018 15:41:19

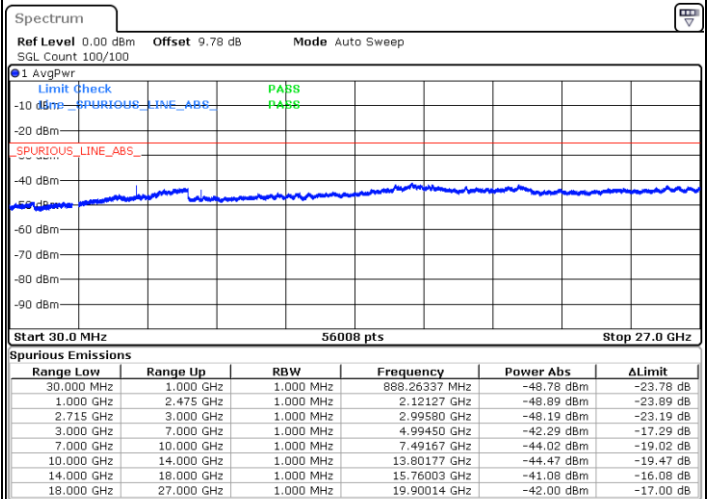
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 17.OCT.2018 15:42:14

Lowest Channel / 16QAM

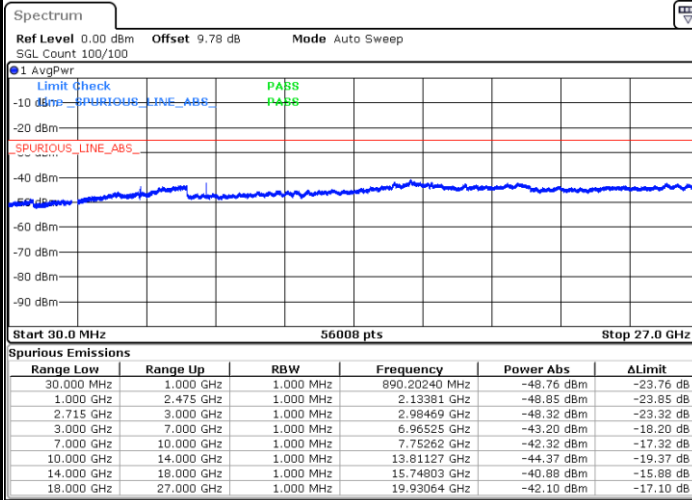


Date: 17.OCT.2018 15:43:09



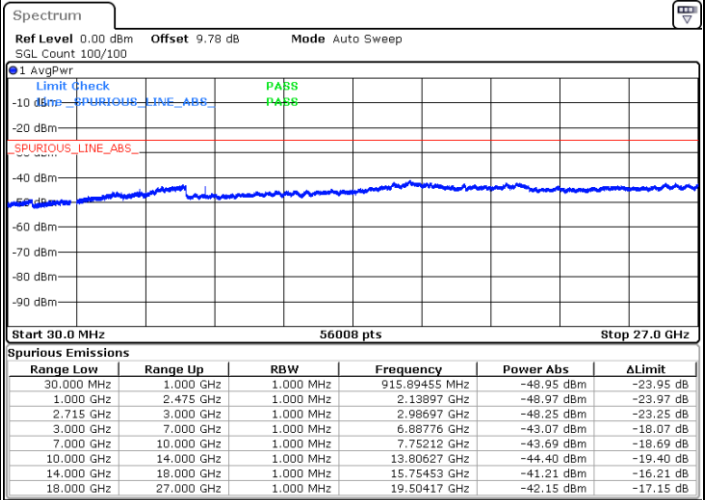
LTE Band 41 / 20MHz

Middle Channel / QPSK



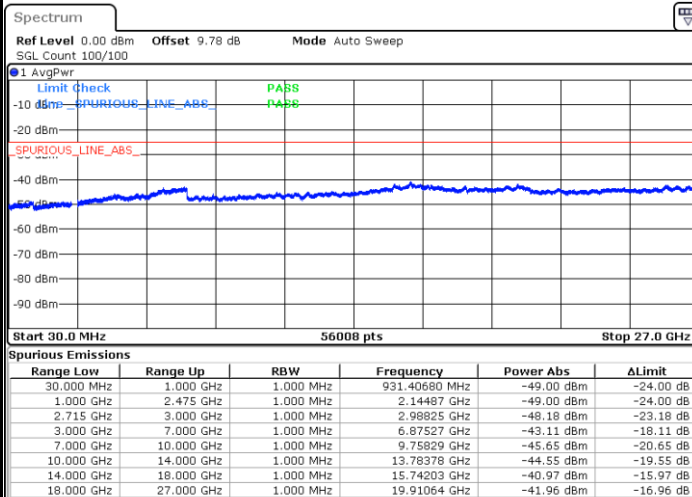
Date: 17.OCT.2018 15:44:03

Middle Channel / 16QAM



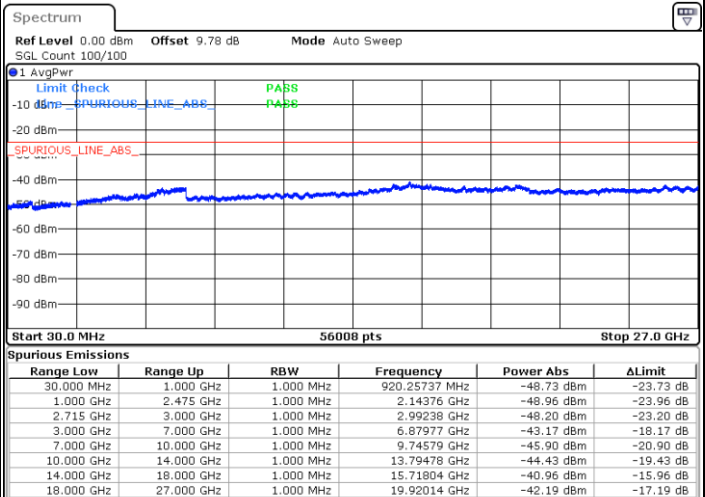
Date: 17.OCT.2018 15:44:58

Highest Channel / QPSK



Date: 17.OCT.2018 15:45:52

Highest Channel / 16QAM

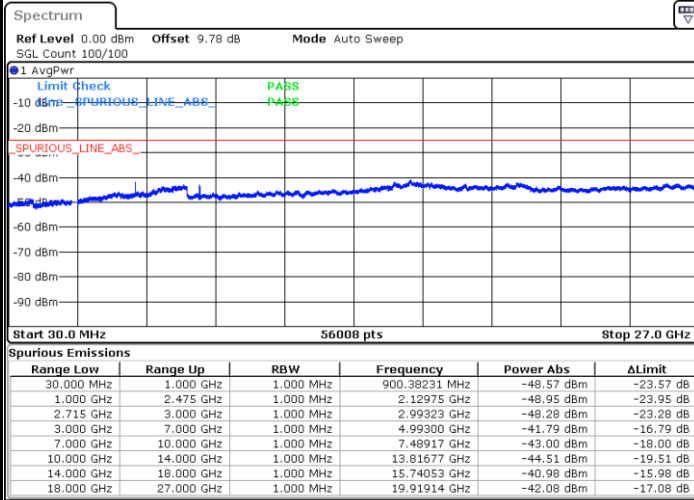


Date: 17.OCT.2018 15:46:47



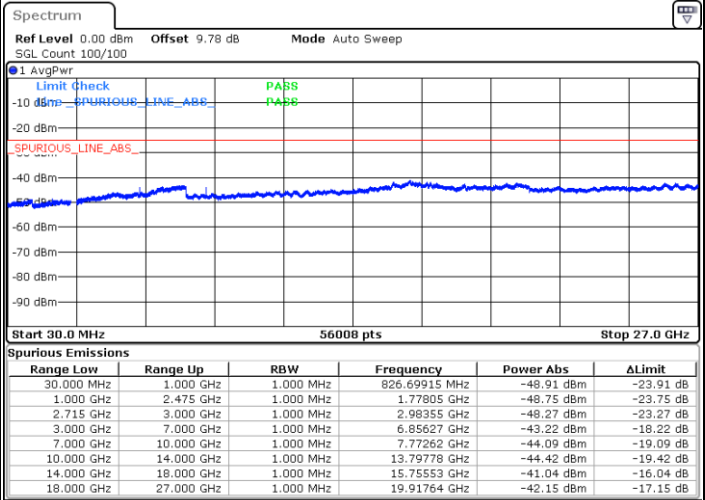
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



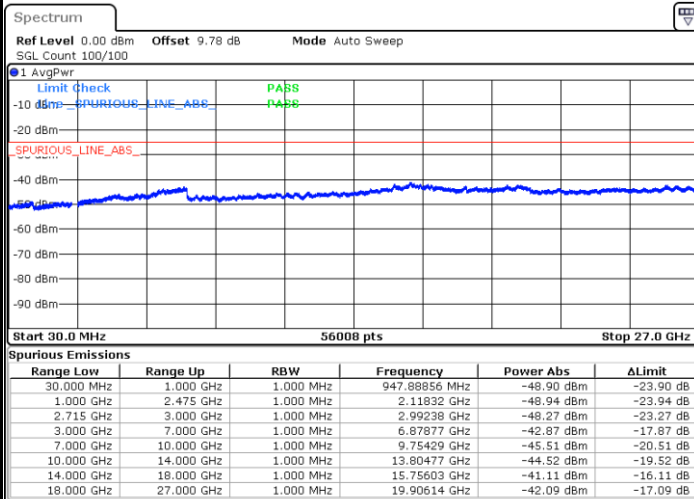
Date: 17.OCT.2018 15:20:30

Middle Channel / 64QAM



Date: 17.OCT.2018 15:21:32

Highest Channel / 64QAM

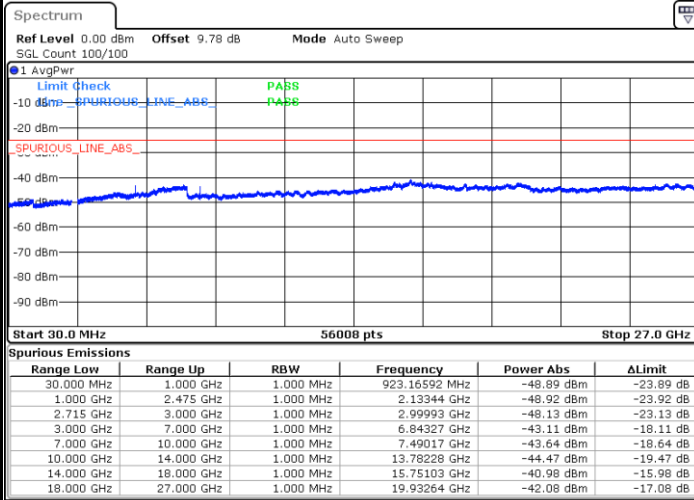


Date: 17.OCT.2018 15:25:32



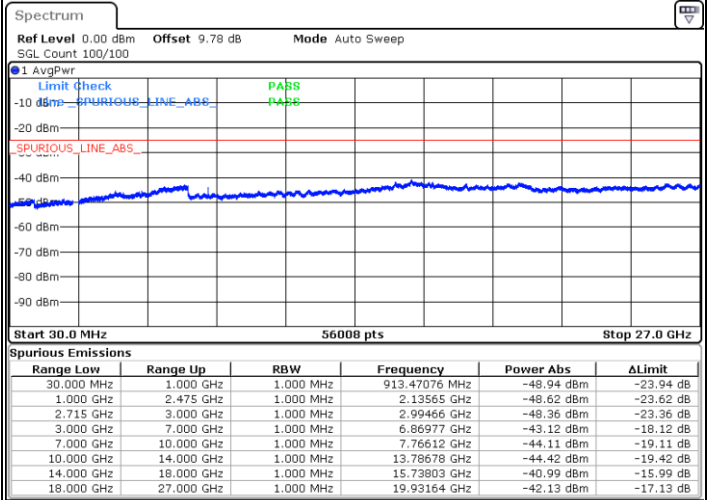
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



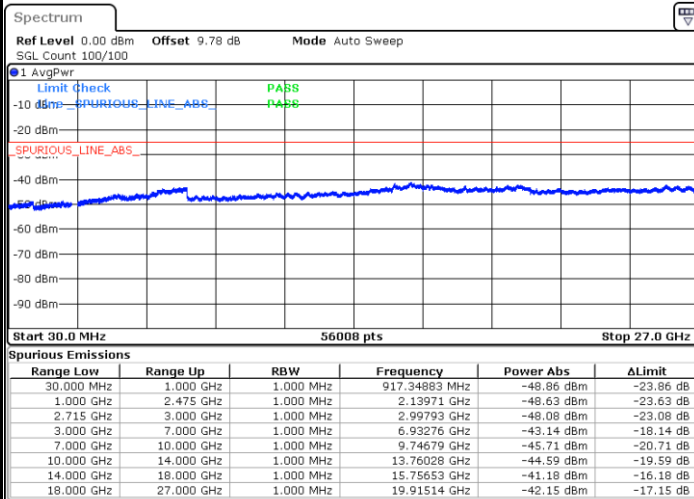
Date: 17.OCT.2018 15:26:22

Middle Channel / 64QAM



Date: 17.OCT.2018 15:30:22

Highest Channel / 64QAM

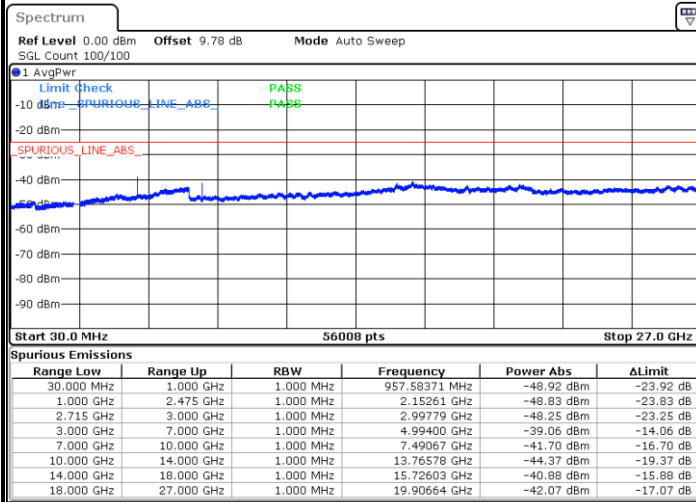


Date: 17.OCT.2018 15:31:10



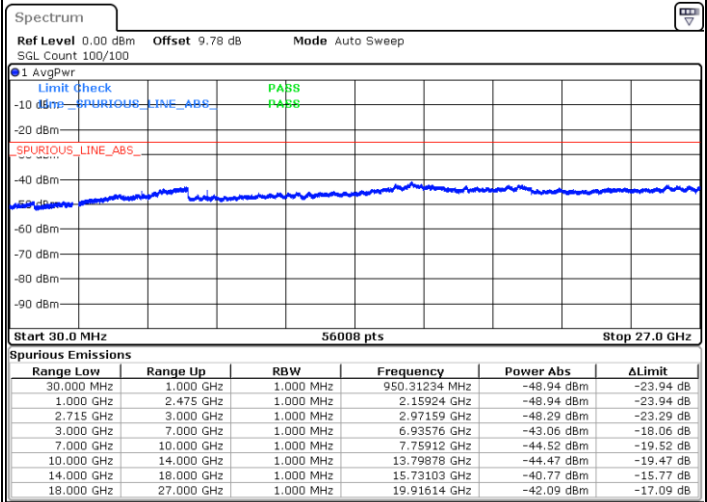
LTE Band 41 / 15MHz

Lowest Channel / 64QAM



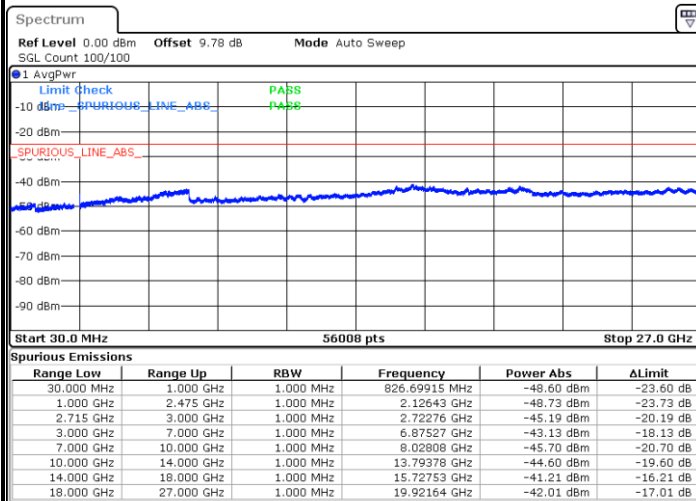
Date: 17.OCT.2018 15:47:42

Middle Channel / 64QAM



Date: 17.OCT.2018 15:48:36

Highest Channel / 64QAM

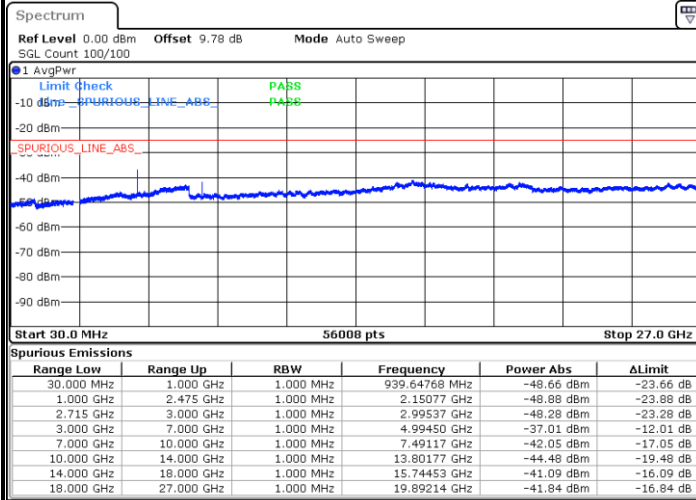


Date: 17.OCT.2018 15:49:31



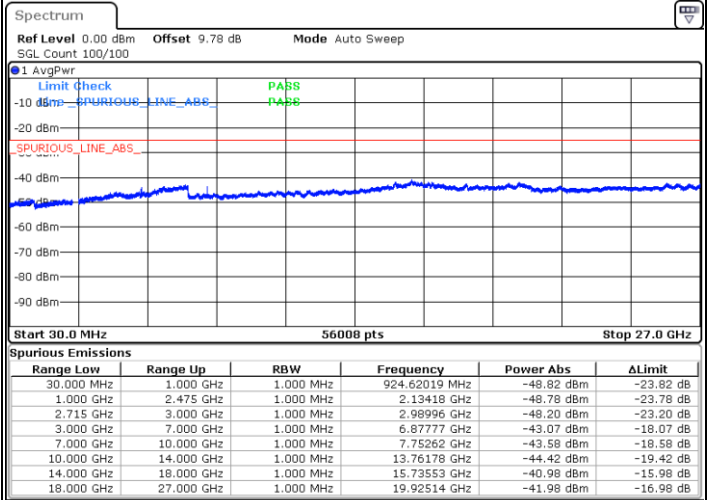
LTE Band 41 / 20MHz

Lowest Channel / 64QAM



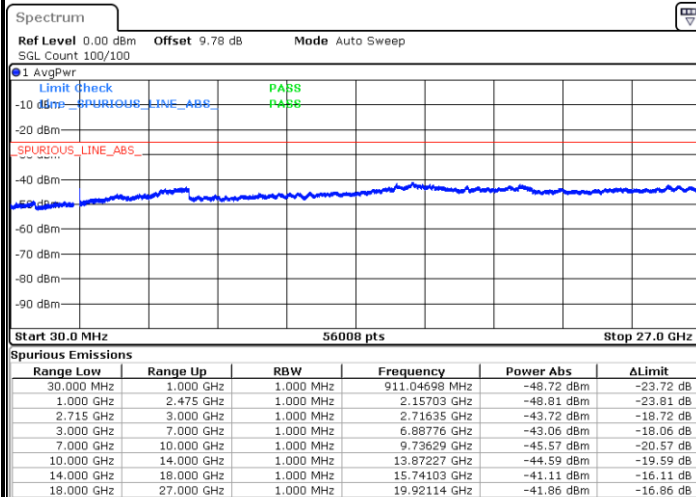
Date: 17.OCT.2018 15:50:25

Middle Channel / 64QAM



Date: 17.OCT.2018 15:51:20

Highest Channel / 64QAM



Date: 17.OCT.2018 15:52:15

**Frequency Stability**

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0030	PASS
40	Normal Voltage	0.0051	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0041	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0059	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0063	
20	Normal Voltage	0.0044	
20	Battery End Point	0.0031	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

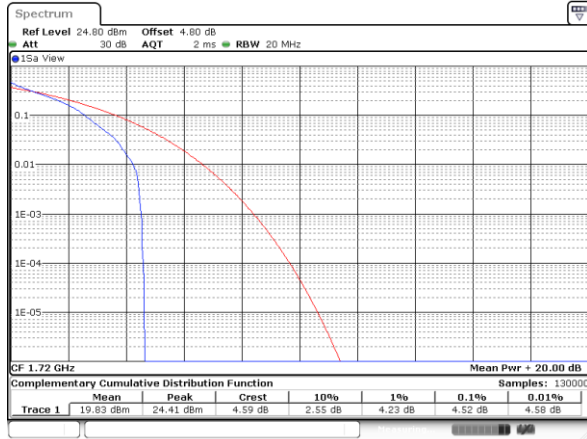
Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	4.9	5.42	5.88	PASS
Middle CH	4.26	4.72	4.78	5.74	
Highest CH	4.84	4.9	5.28	5.83	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.2	6.41			PASS
Middle CH	6.23	6.2			
Highest CH	6.52	6.38			

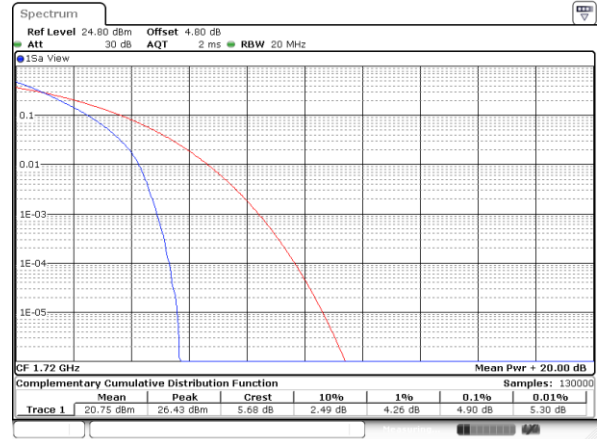


LTE Band 66 / 20MHz / QPSK

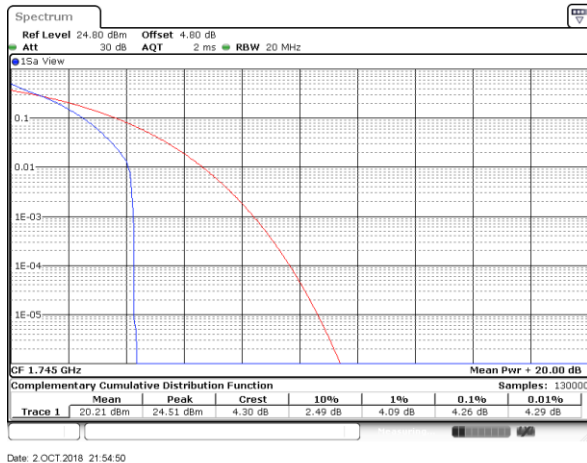
Lowest Channel / 1RB



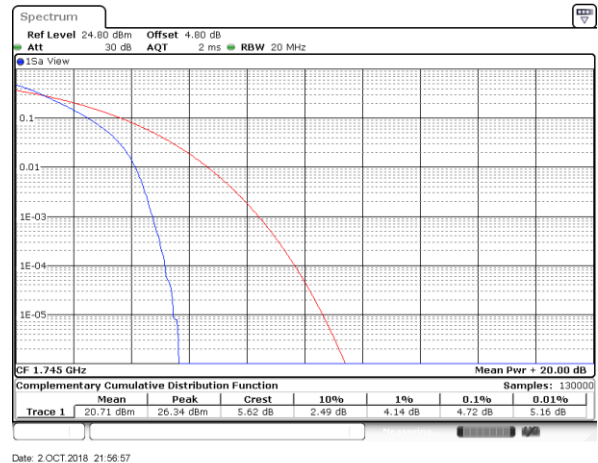
Lowest Channel / Full RB



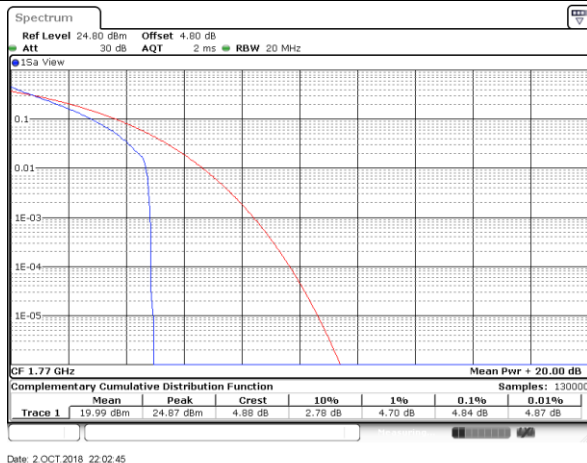
Middle Channel / 1RB



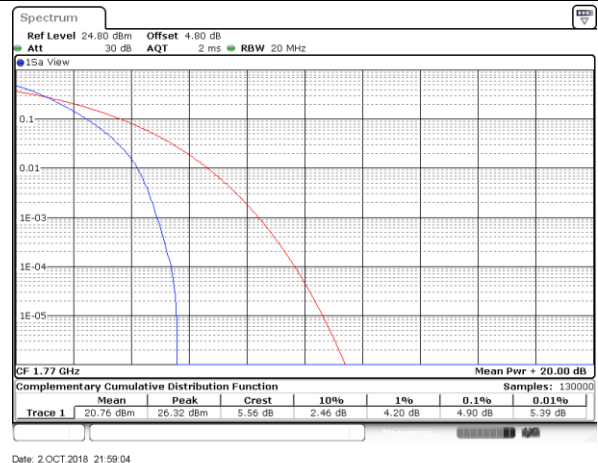
Middle Channel / Full RB



Highest Channel / 1RB



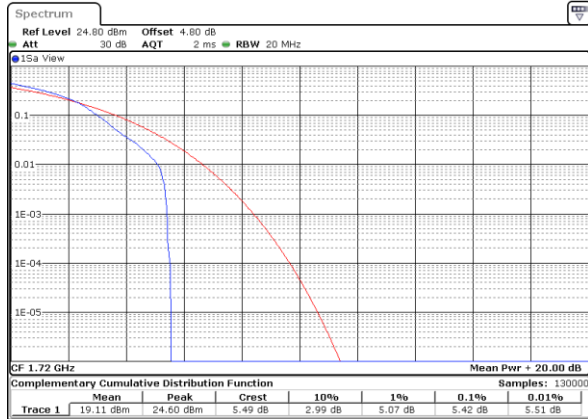
Highest Channel / Full RB



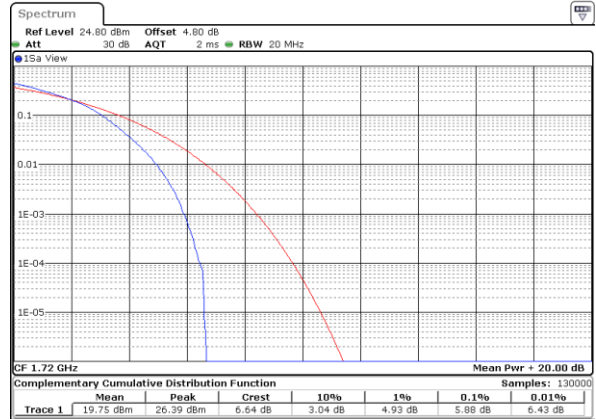


LTE Band 66 / 20MHz / 16QAM

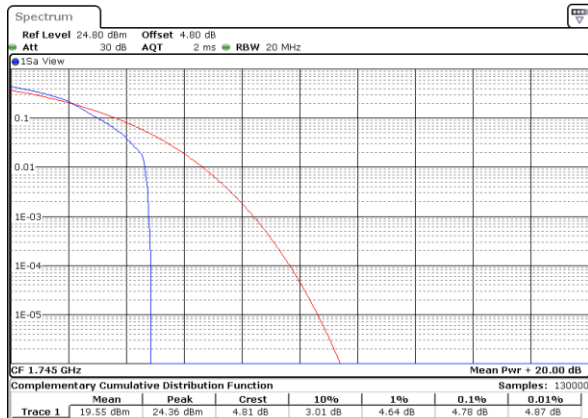
Lowest Channel / 1RB



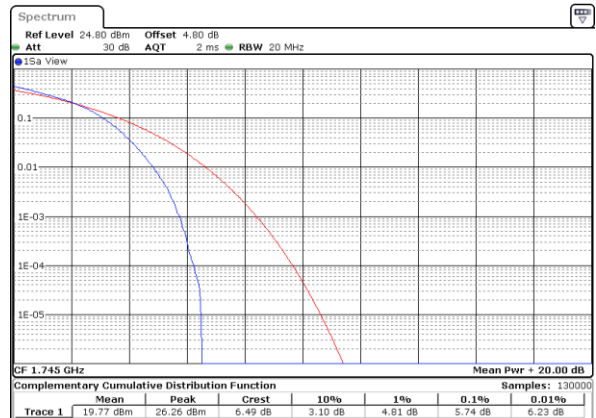
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



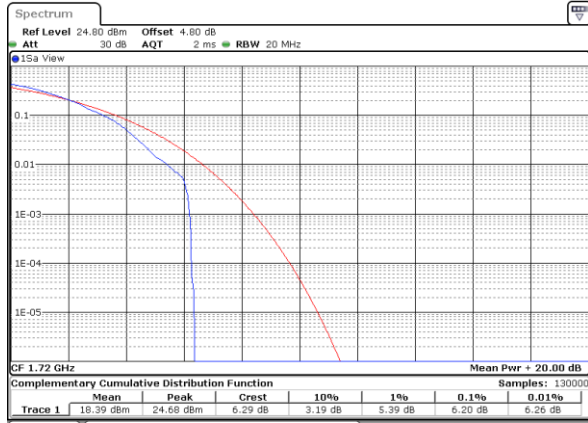
Highest Channel / Full RB





LTE Band 66 / 20MHz / 64QAM

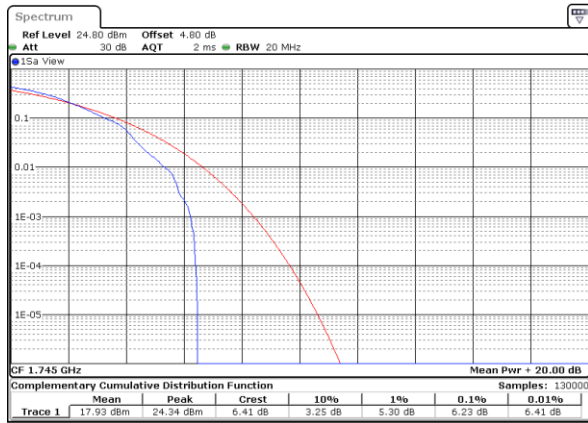
Lowest Channel / 1RB



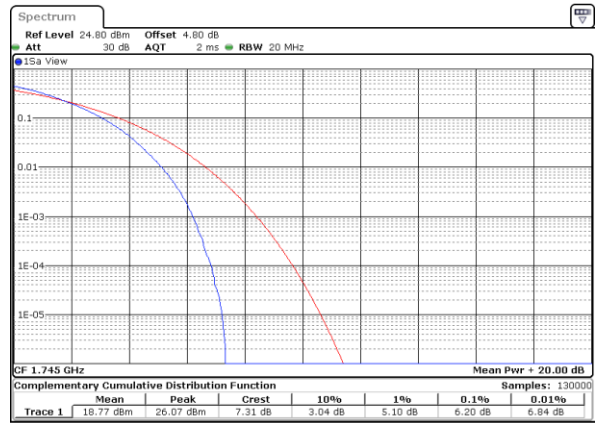
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



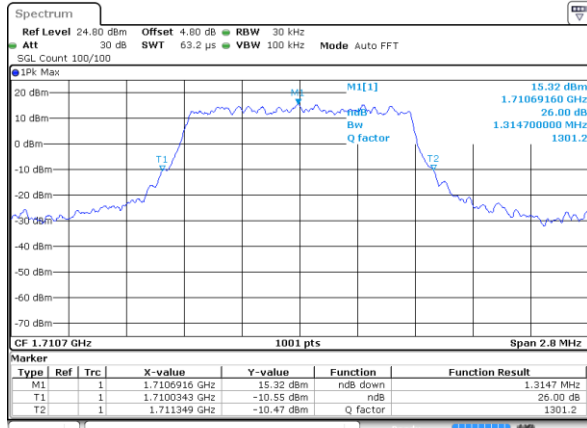
**26dB Bandwidth**

Mode	LTE Band 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	1.315	1.284	3.015	3.021	4.985	4.975	9.93	9.95	14.416	14.266	20.1	20.26
Middle CH	1.29	1.278	3.021	3.021	5.005	4.895	9.85	9.79	14.266	14.565	20.22	20.1
Highest CH	1.284	1.248	3.015	3.021	4.865	4.905	9.83	9.77	14.266	14.356	20.06	20.34
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.292		3.027		4.915		9.85		14.416		20.14	
Middle CH	1.25		3.057		4.885		9.63		14.146		20.14	
Highest CH	1.3		3.003		4.935		9.71		14.535		20.06	



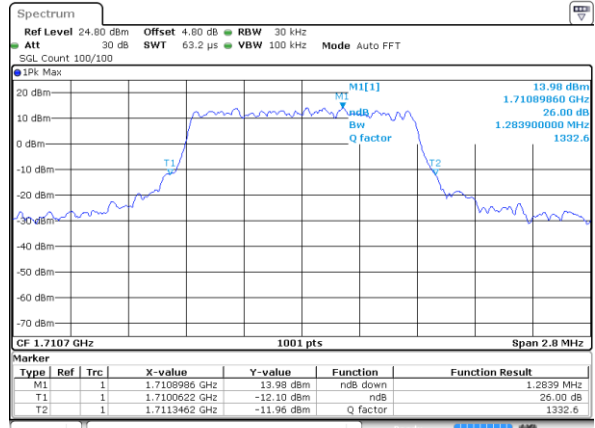
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



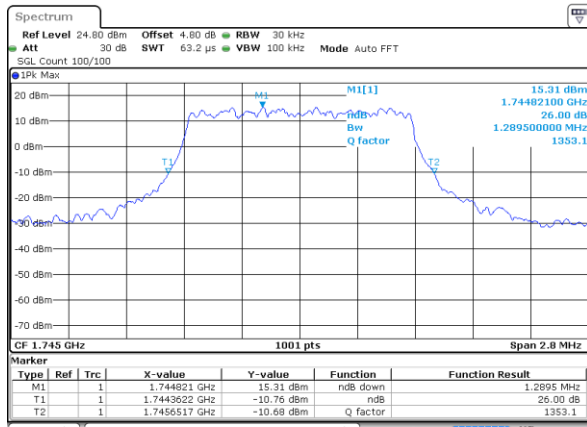
Date: 2.OCT.2018 20:15:57

Lowest Channel / 1.4MHz / 16QAM



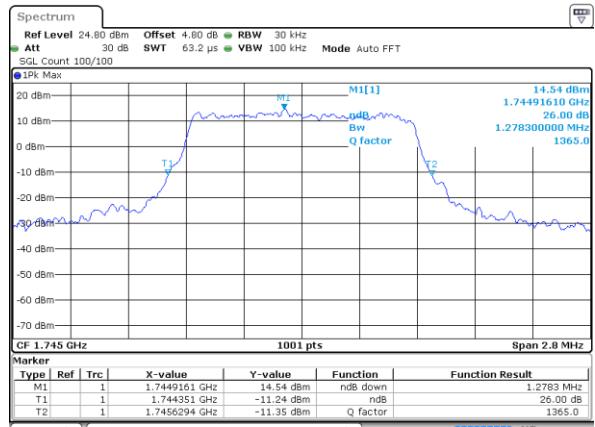
Date: 2.OCT.2018 20:16:20

Middle Channel / 1.4MHz / QPSK



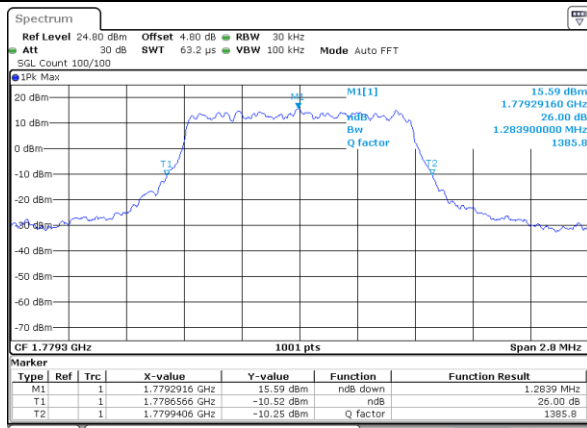
Date: 2.OCT.2018 20:23:23

Middle Channel / 1.4MHz / 16QAM



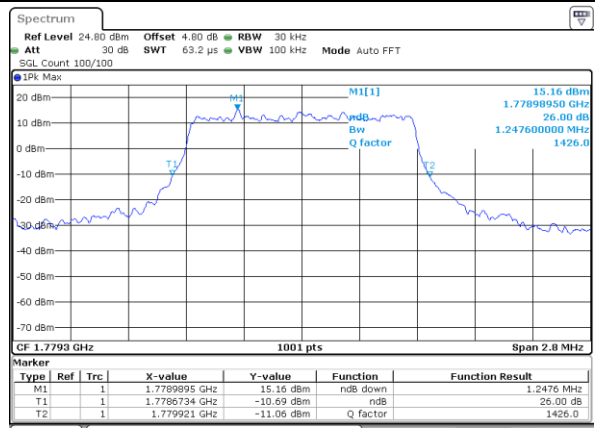
Date: 2.OCT.2018 20:23:48

Highest Channel / 1.4MHz / QPSK



Date: 2.OCT.2018 20:28:31

Highest Channel / 1.4MHz / 16QAM

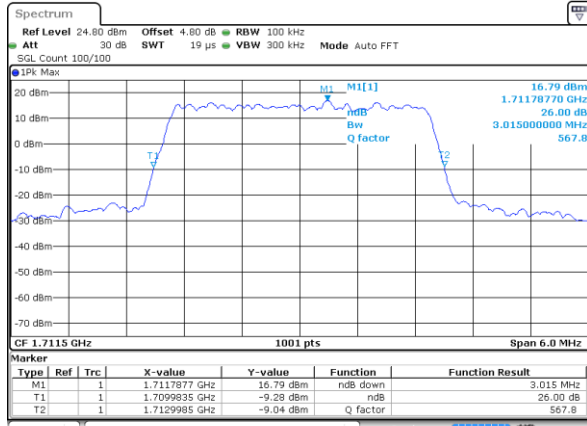


Date: 2.OCT.2018 20:28:49

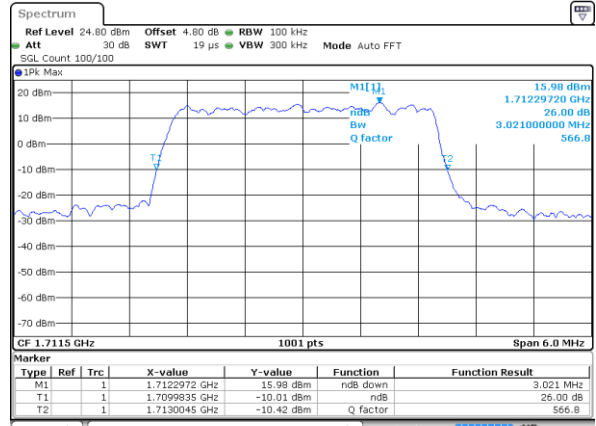


LTE Band 66

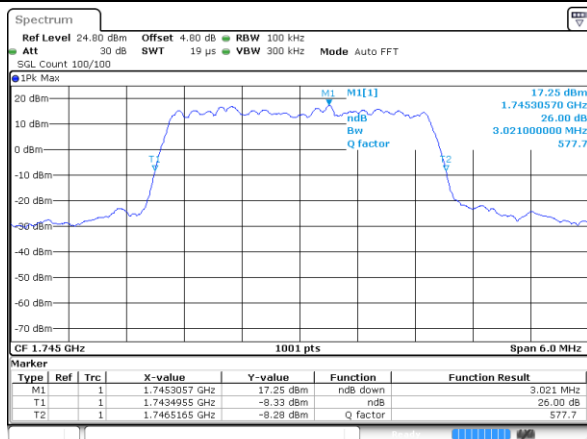
Lowest Channel / 3MHz / QPSK



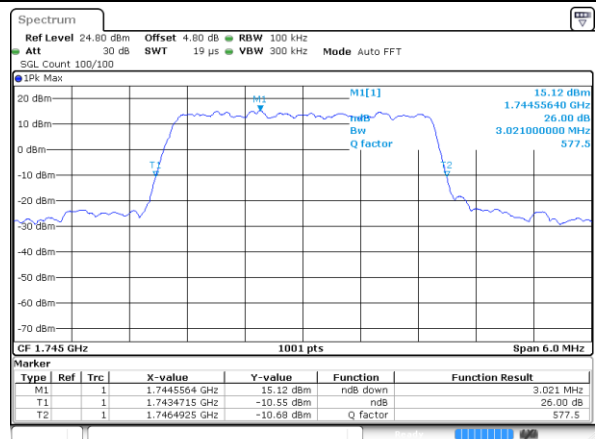
Lowest Channel / 3MHz / 16QAM



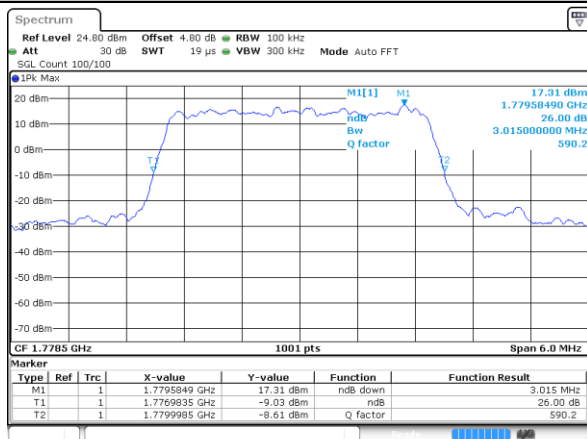
Middle Channel / 3MHz / QPSK



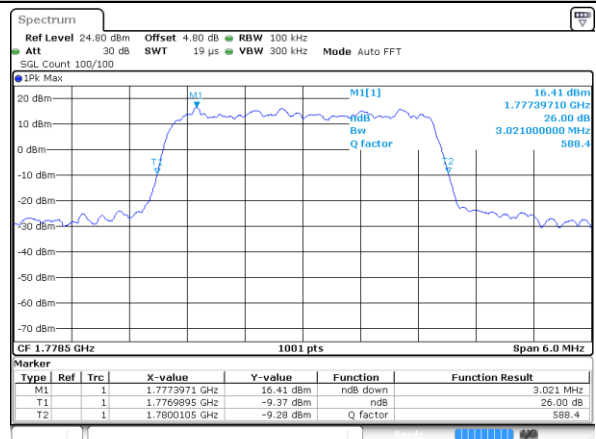
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



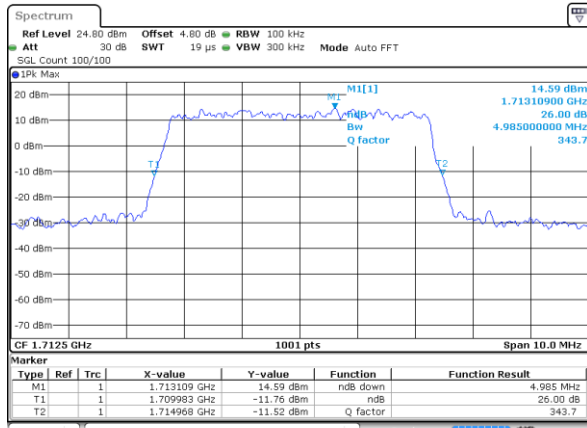
Highest Channel / 3MHz / 16QAM





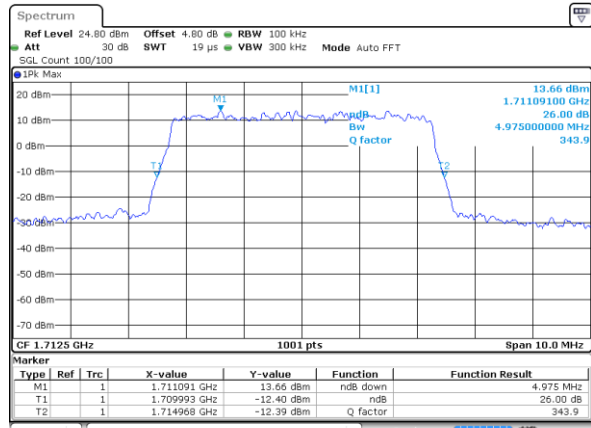
LTE Band 66

Lowest Channel / 5MHz / QPSK



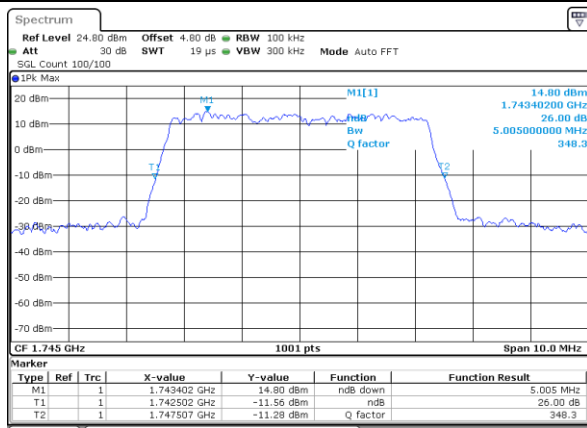
Date: 2.OCT.2018 21:05:45

Lowest Channel / 5MHz / 16QAM



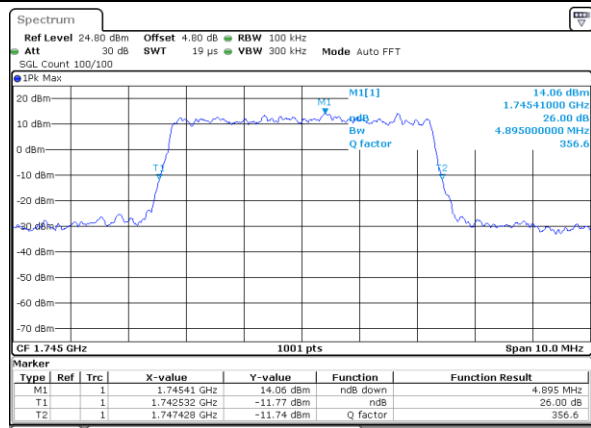
Date: 2.OCT.2018 21:06:01

Middle Channel / 5MHz / QPSK



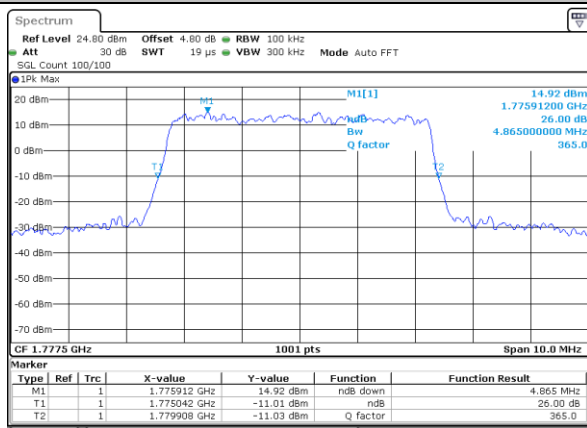
Date: 2.OCT.2018 21:13:18

Middle Channel / 5MHz / 16QAM



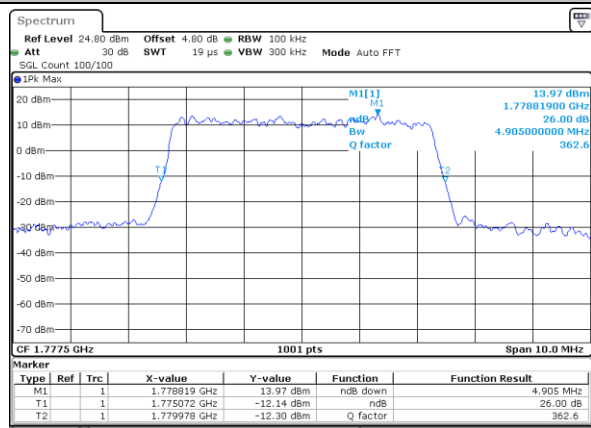
Date: 2.OCT.2018 21:13:04

Highest Channel / 5MHz / QPSK



Date: 2.OCT.2018 21:14:13

Highest Channel / 5MHz / 16QAM

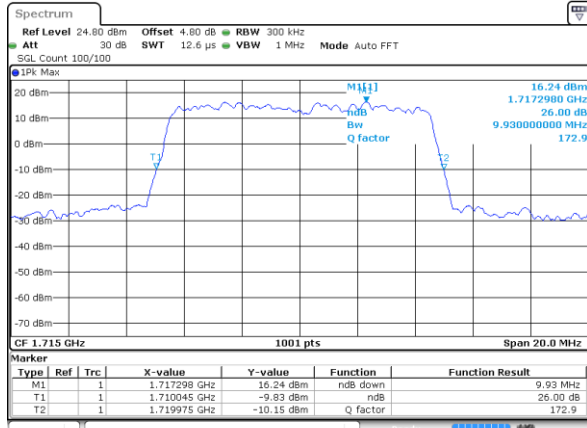


Date: 2.OCT.2018 21:14:32

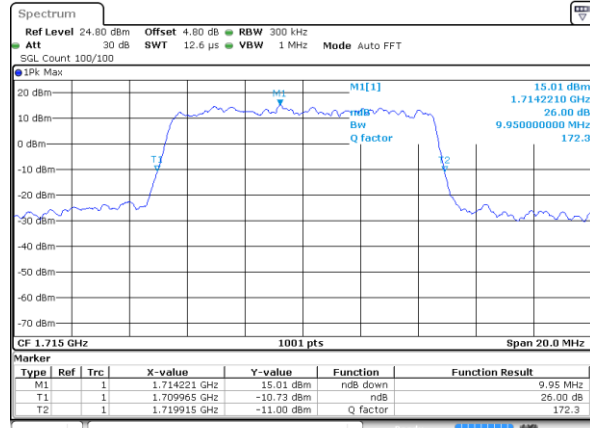


LTE Band 66

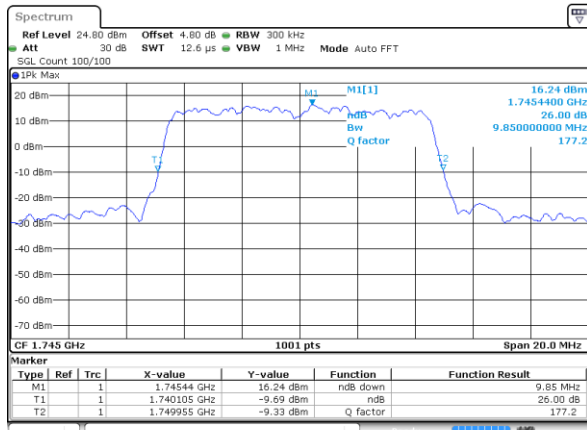
Lowest Channel / 10MHz / QPSK



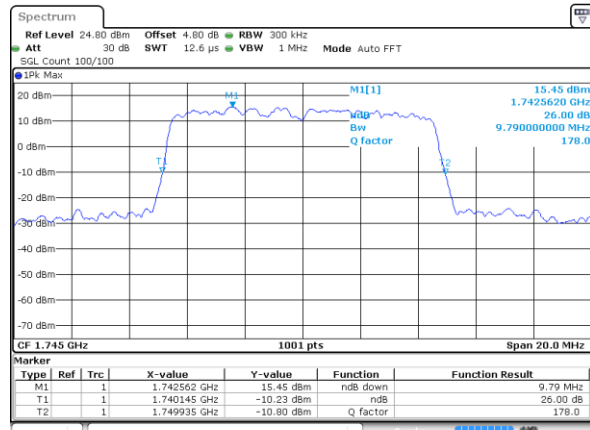
Lowest Channel / 10MHz / 16QAM



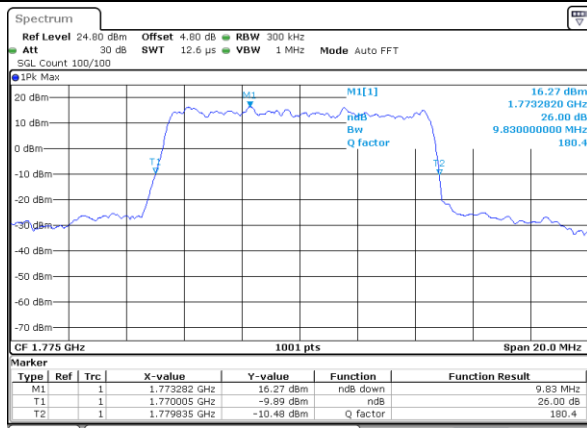
Middle Channel / 10MHz / QPSK



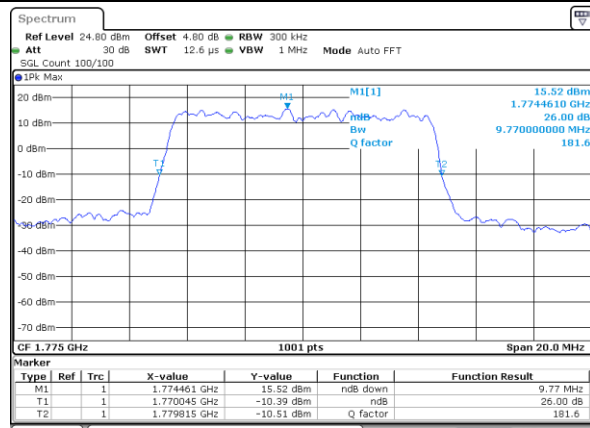
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



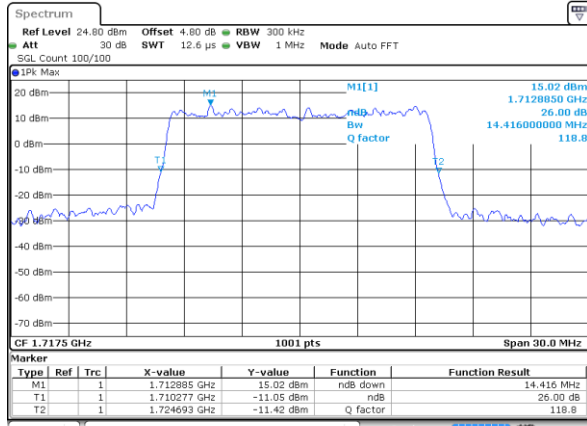
Highest Channel / 10MHz / 16QAM



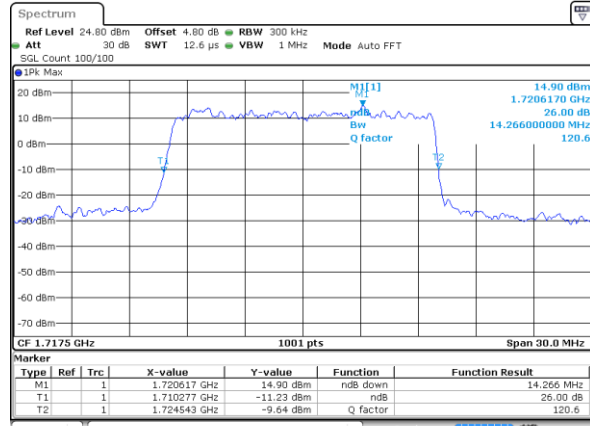


LTE Band 66

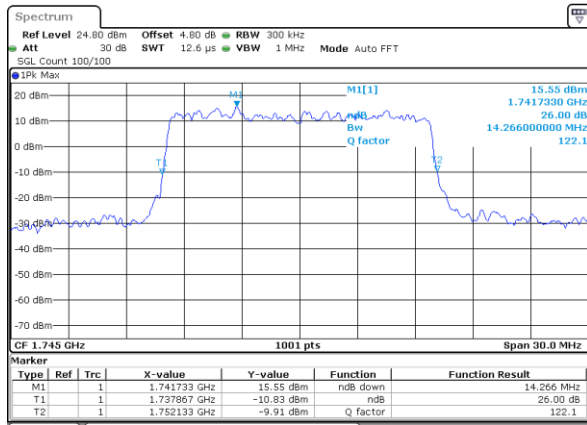
Lowest Channel / 15MHz / QPSK



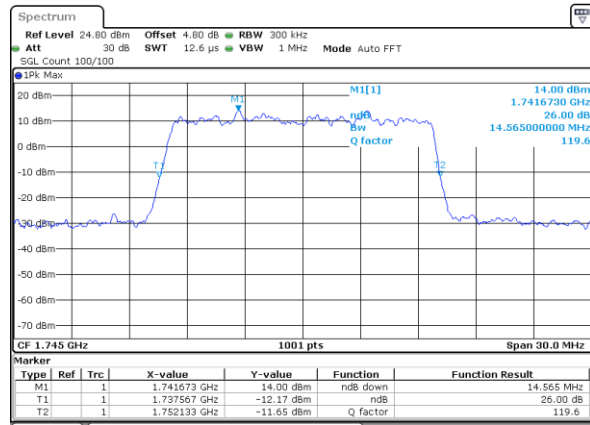
Lowest Channel / 15MHz / 16QAM



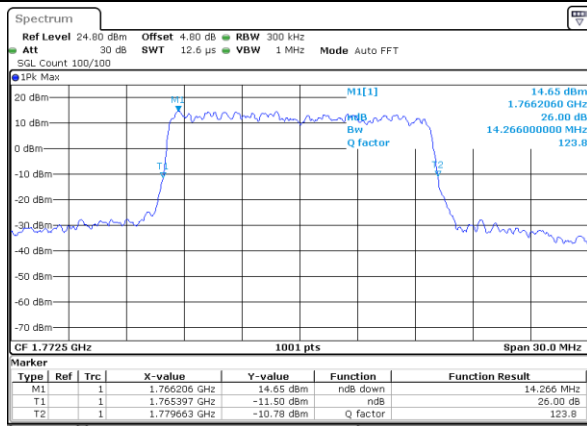
Middle Channel / 15MHz / QPSK



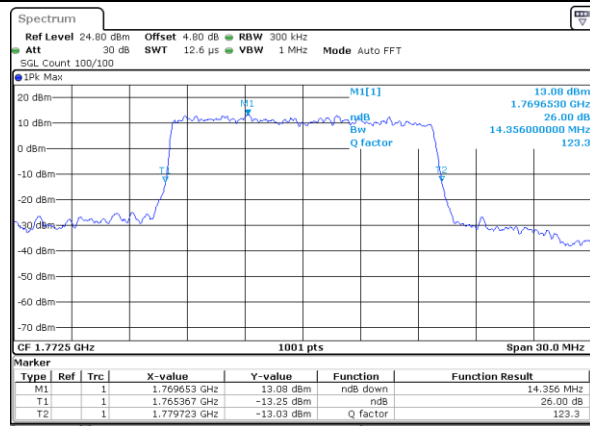
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



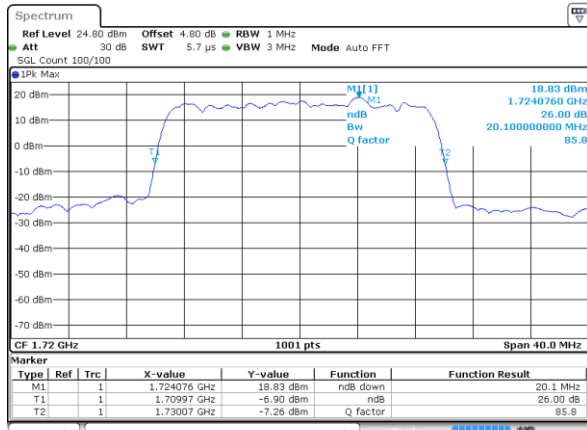
Highest Channel / 15MHz / 16QAM



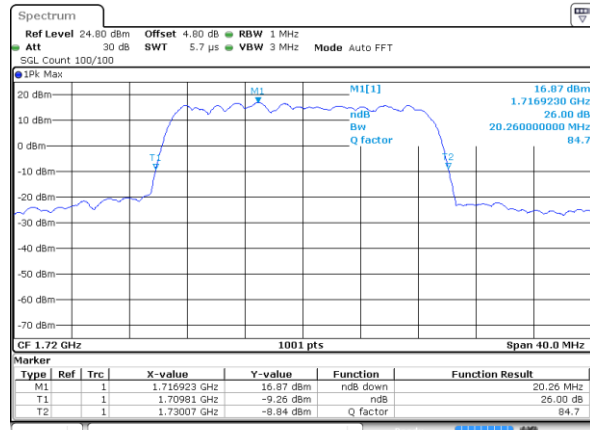


LTE Band 66

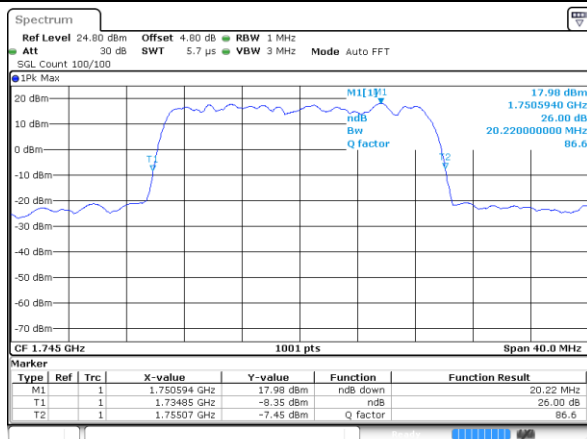
Lowest Channel / 20MHz / QPSK



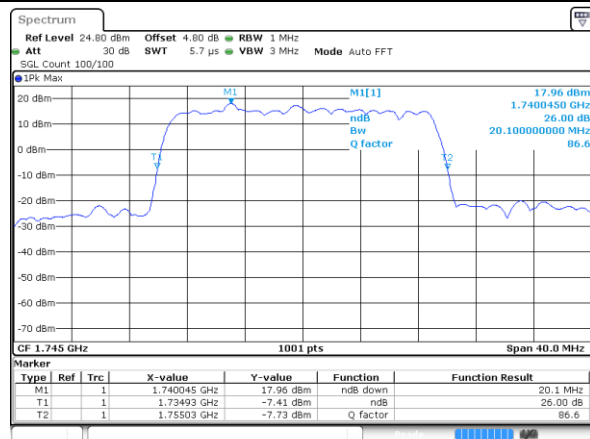
Lowest Channel / 20MHz / 16QAM



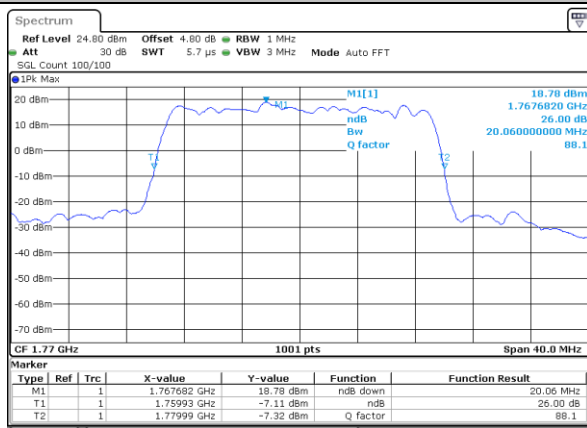
Middle Channel / 20MHz / QPSK



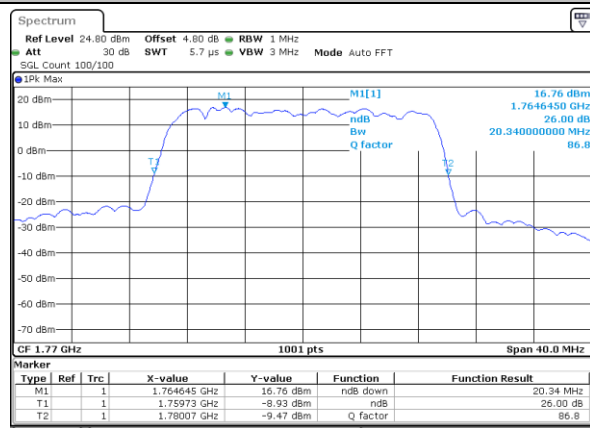
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



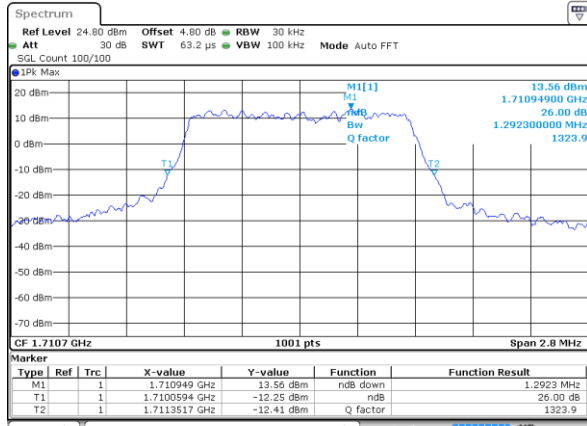
Highest Channel / 20MHz / 16QAM





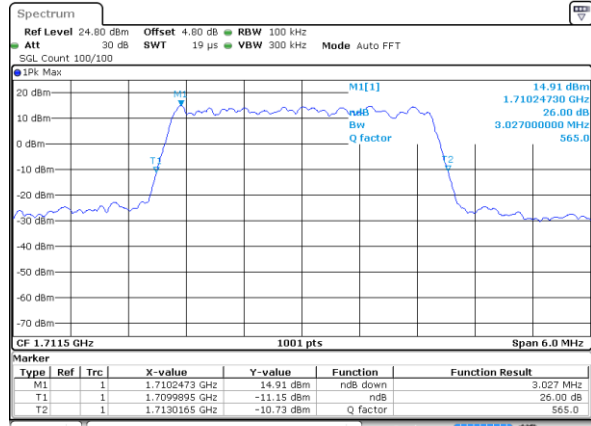
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



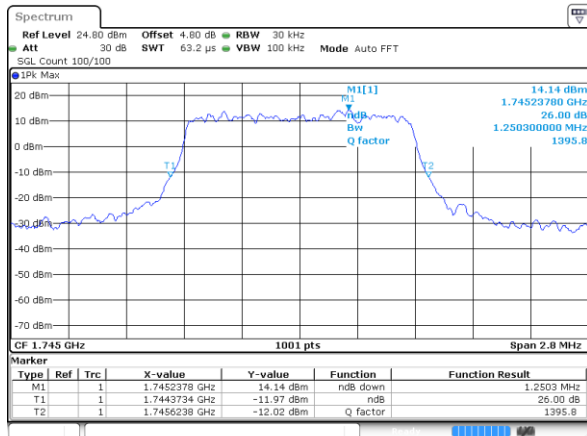
Date: 2.OCT.2018 20:16:40

Lowest Channel / 3MHz / 64QAM



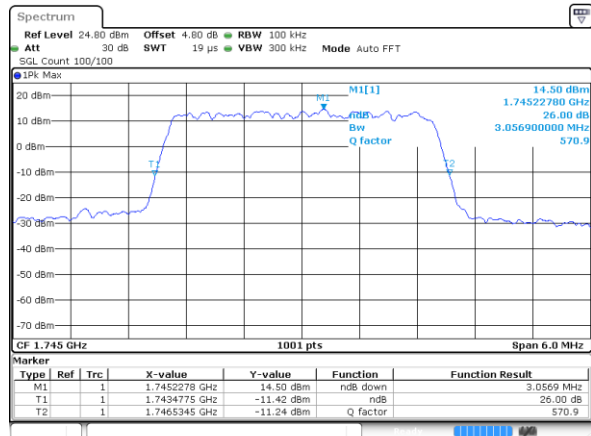
Date: 2.OCT.2018 20:46:41

Middle Channel / 1.4MHz / 64QAM



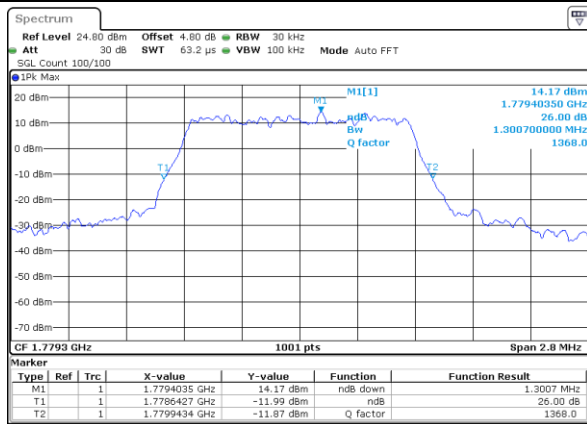
Date: 2.OCT.2018 20:24:14

Middle Channel /3MHz / 64QAM



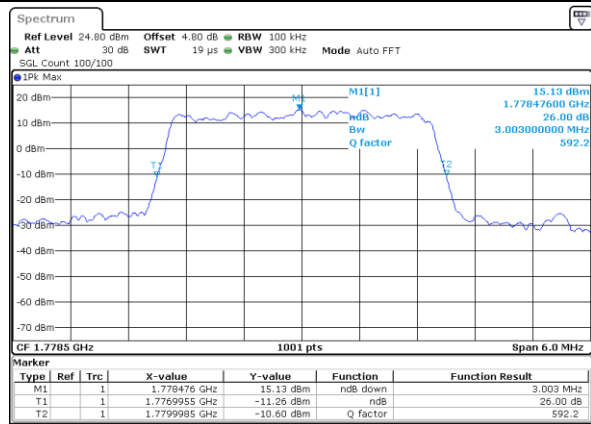
Date: 2.OCT.2018 20:55:44

Highest Channel / 1.4MHz / 64QAM



Date: 2.OCT.2018 20:29:06

Highest Channel /3MHz / 64QAM

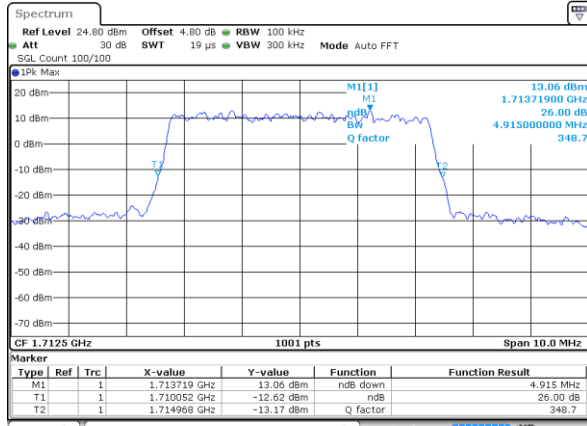


Date: 2.OCT.2018 20:57:33

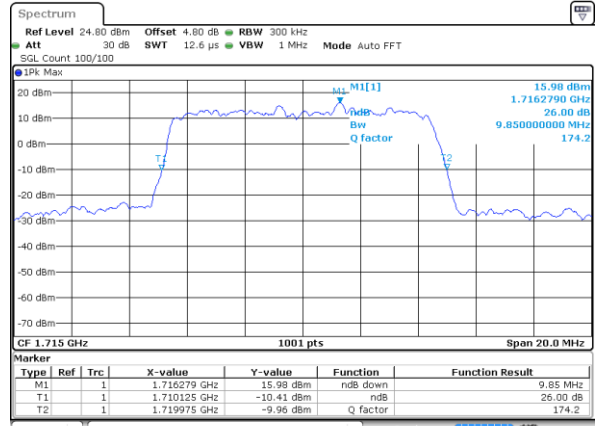


LTE Band 66

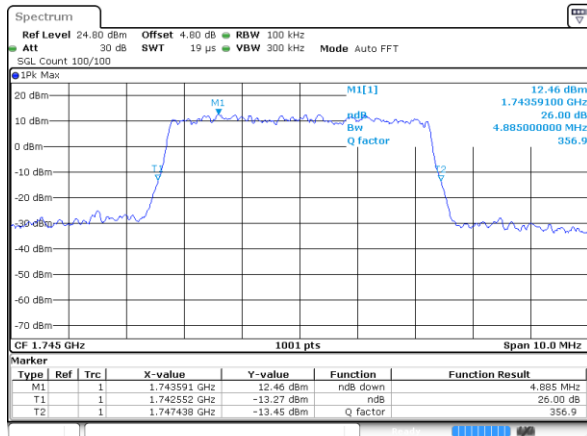
Lowest Channel / 5MHz / 64QAM



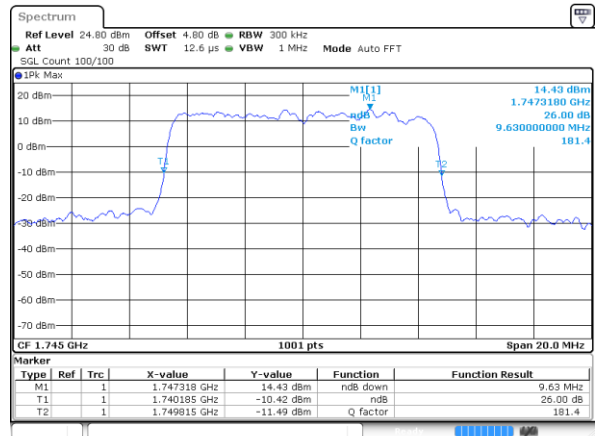
Lowest Channel / 10MHz / 64QAM



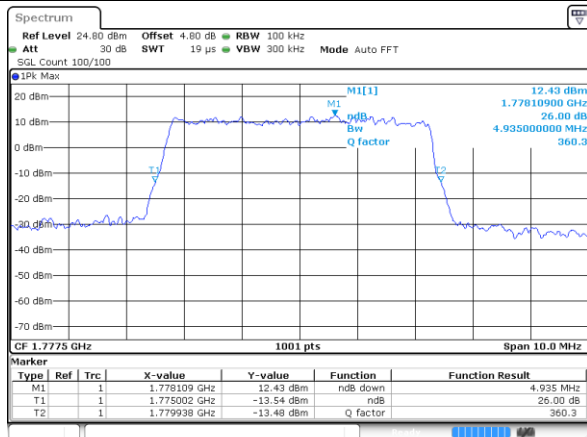
Middle Channel / 5MHz / 64QAM



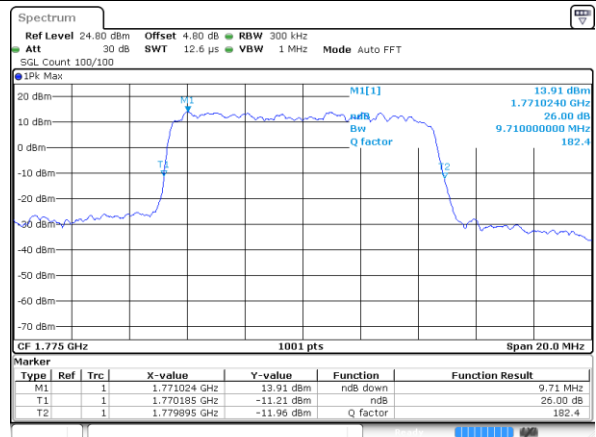
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



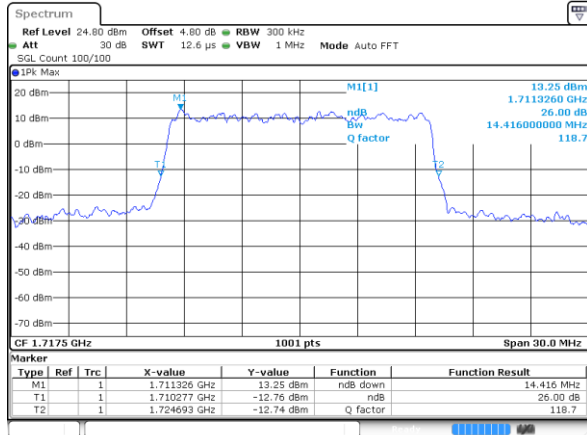
Highest Channel / 10MHz / 64QAM





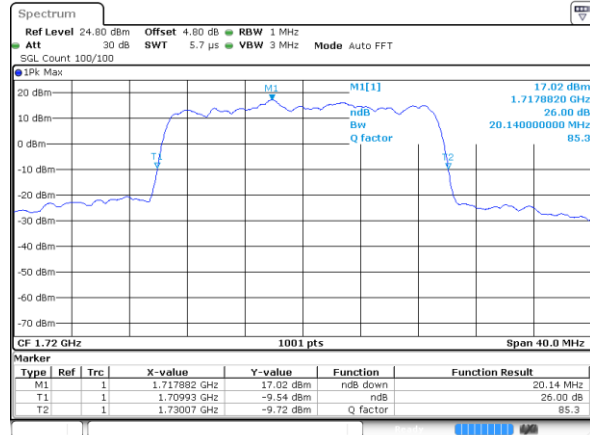
LTE Band 66

Lowest Channel / 15MHz / 64QAM



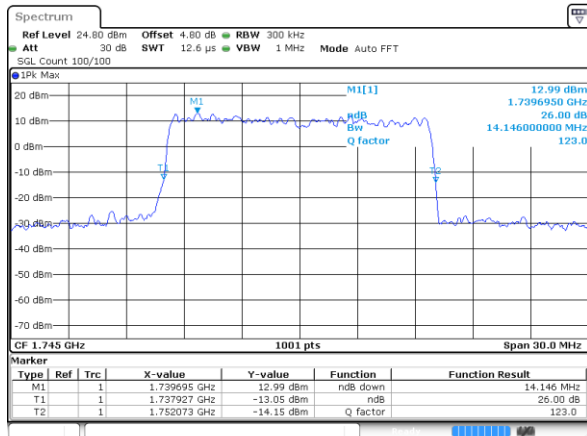
Date: 2.OCT.2018 21:35:30

Lowest Channel / 20MHz / 64QAM



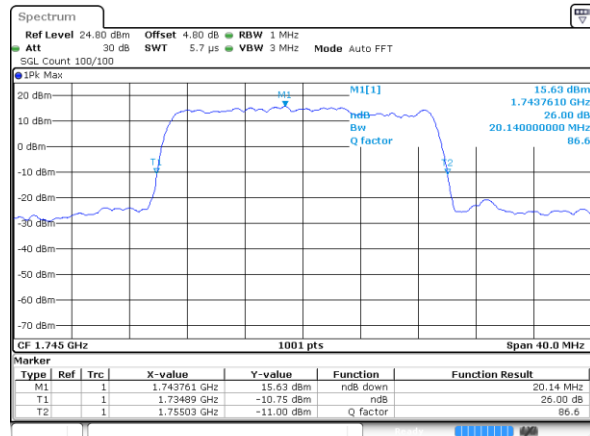
Date: 2.OCT.2018 21:49:35

Middle Channel / 15MHz / 64QAM



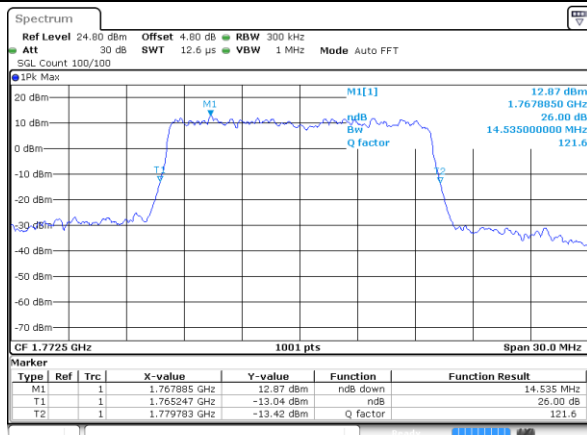
Date: 2.OCT.2018 21:40:56

Middle Channel / 20MHz / 64QAM



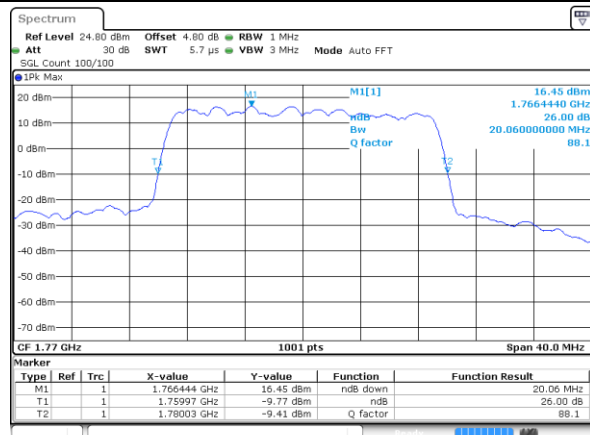
Date: 2.OCT.2018 21:58:09

Highest Channel / 15MHz / 64QAM



Date: 2.OCT.2018 21:43:05

Highest Channel / 20MHz / 64QAM



Date: 2.OCT.2018 22:00:52

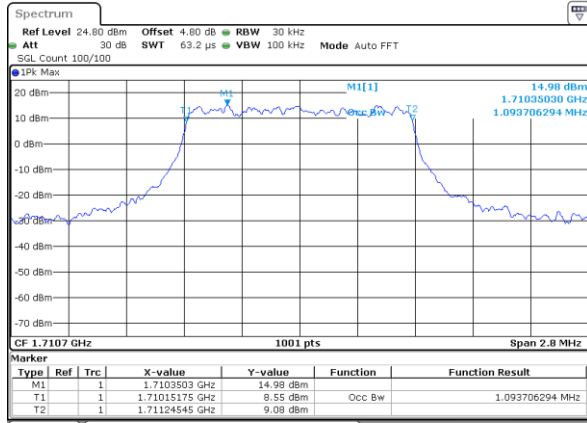
**Occupied Bandwidth**

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	1.1	2.7	2.72	4.46	4.49	9.03	8.99	13.4	13.46	18.34	18.5
Middle CH	1.1	1.09	2.71	2.74	4.52	4.5	9.07	8.99	13.43	13.46	18.42	18.42
Highest CH	1.08	1.09	2.71	2.71	4.51	4.5	9.03	9.01	13.49	13.4	18.18	18.26
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		2.72		4.55		9.01		13.46		18.38	
Middle CH	1.09		2.71		4.5		8.99		13.43		18.42	
Highest CH	1.1		2.71		4.5		8.99		13.43		18.34	

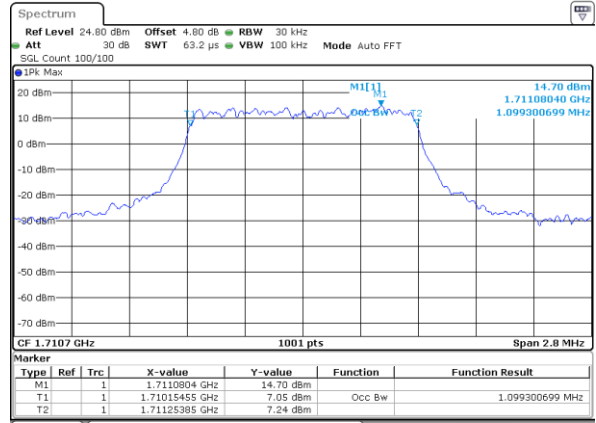


LTE Band 66

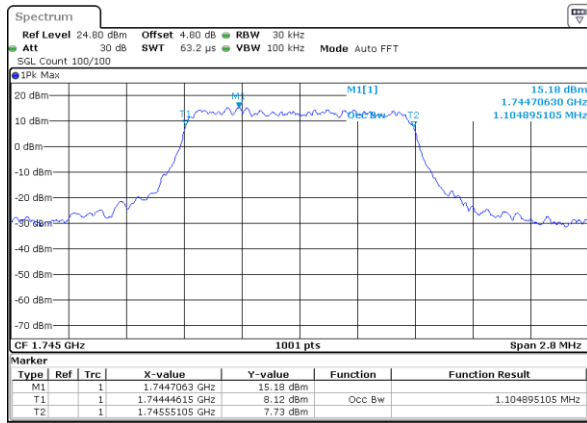
Lowest Channel / 1.4MHz / QPSK



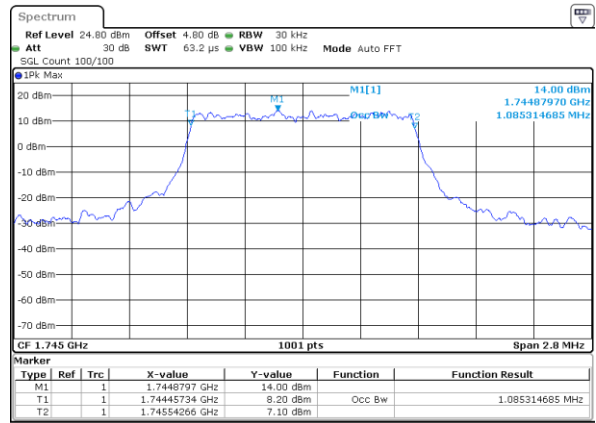
Lowest Channel / 1.4MHz / 16QAM



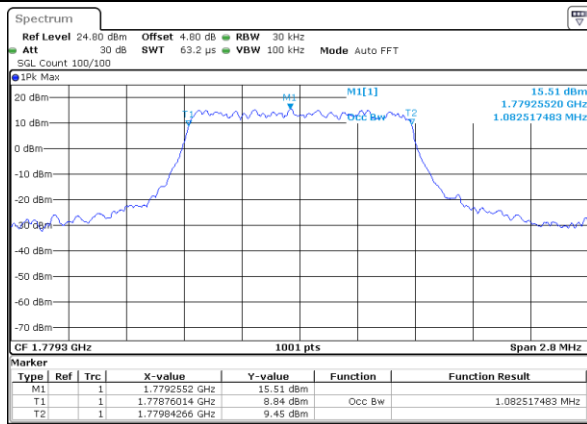
Middle Channel / 1.4MHz / QPSK



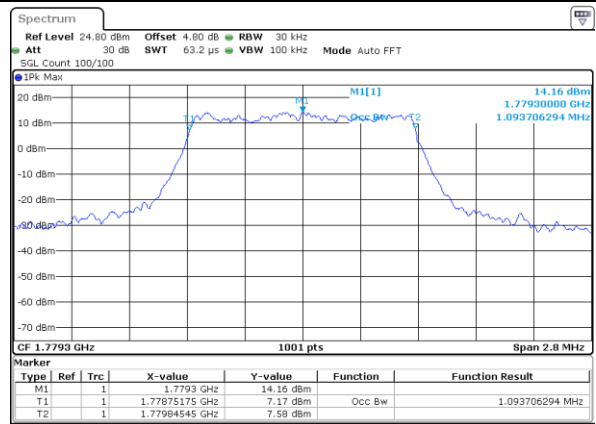
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



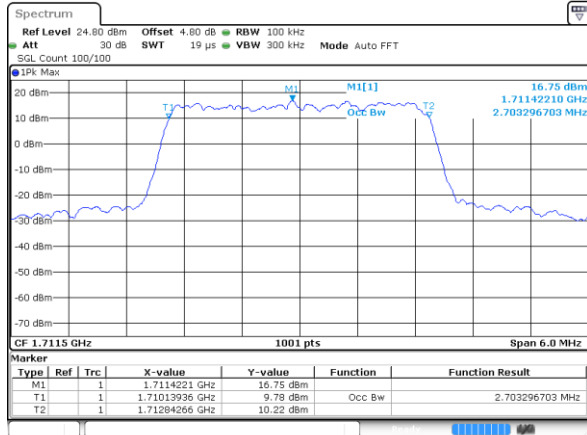
Highest Channel / 1.4MHz / 16QAM



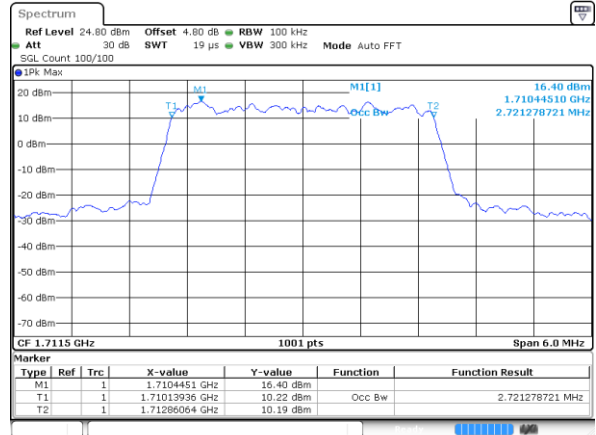


LTE Band 66

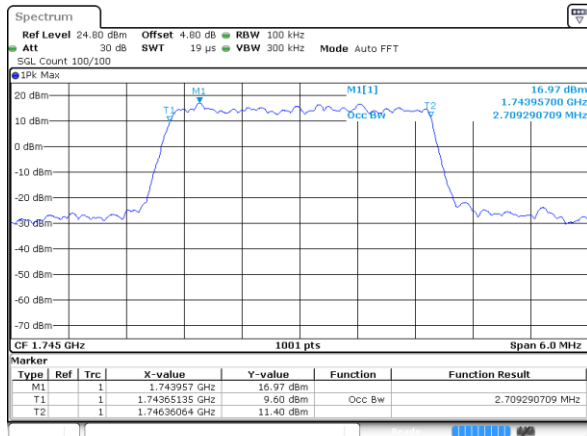
Lowest Channel / 3MHz / QPSK



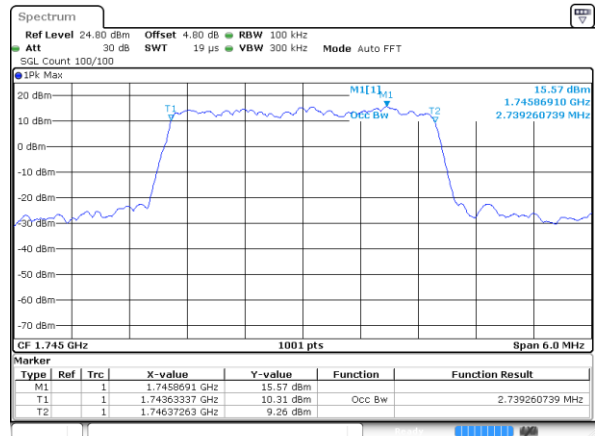
Lowest Channel / 3MHz / 16QAM



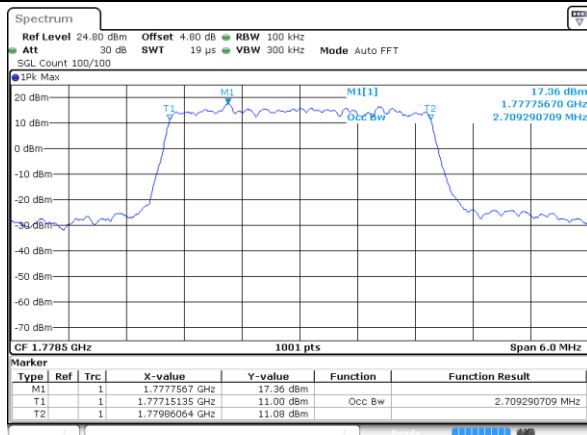
Middle Channel / 3MHz / QPSK



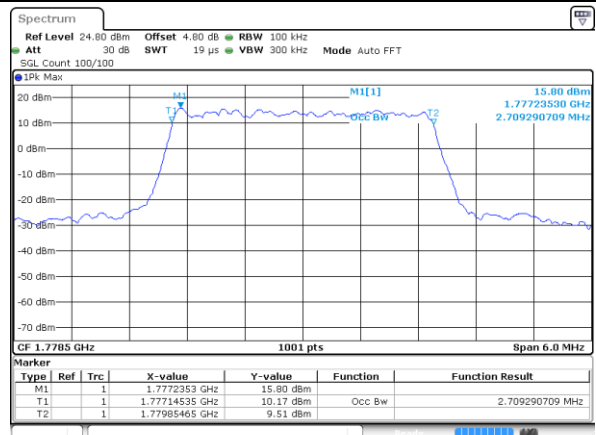
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



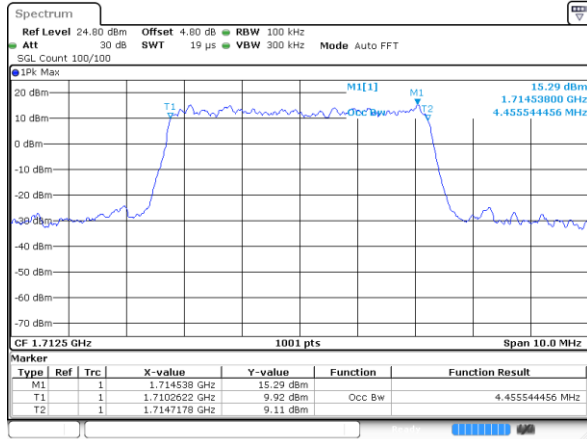
Highest Channel / 3MHz / 16QAM



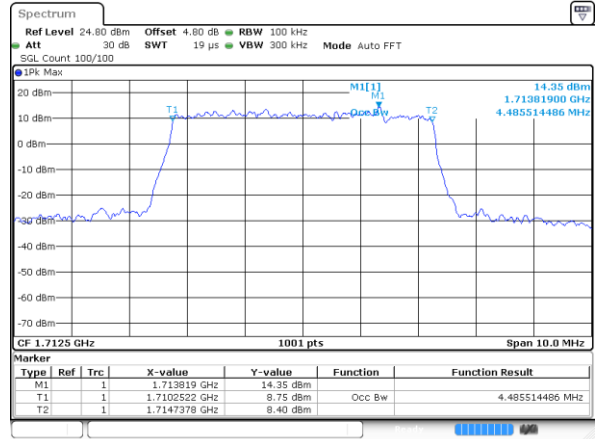


LTE Band 66

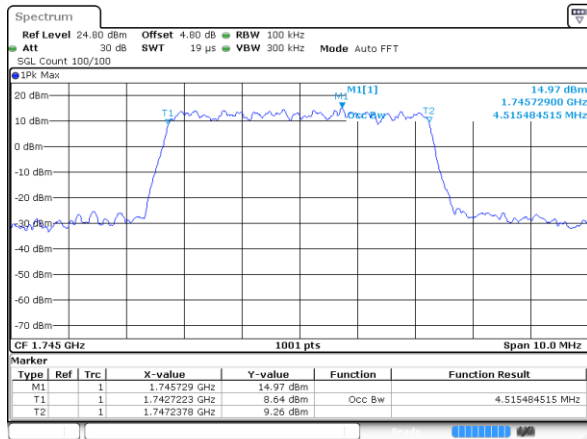
Lowest Channel / 5MHz / QPSK



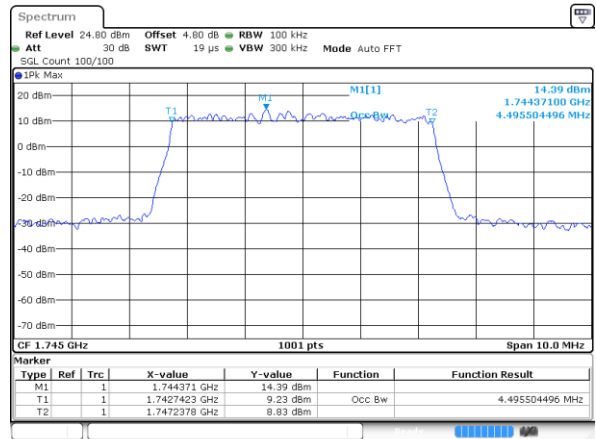
Lowest Channel / 5MHz / 16QAM



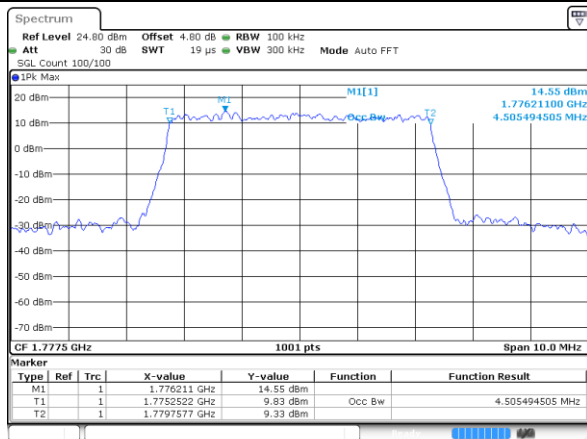
Middle Channel / 5MHz / QPSK



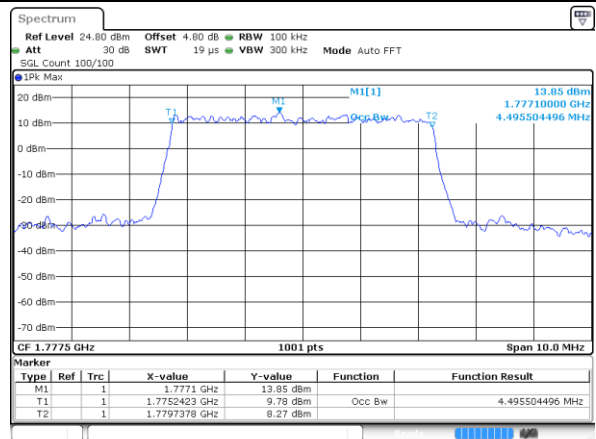
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



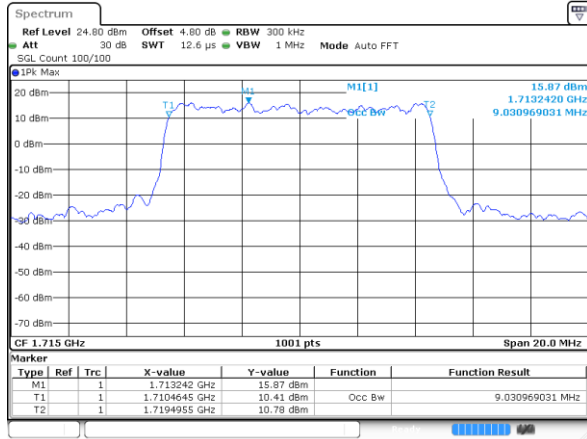
Highest Channel / 5MHz / 16QAM





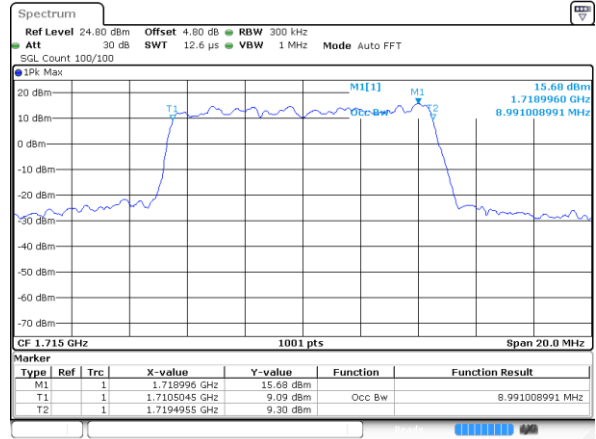
LTE Band 66

Lowest Channel / 10MHz / QPSK



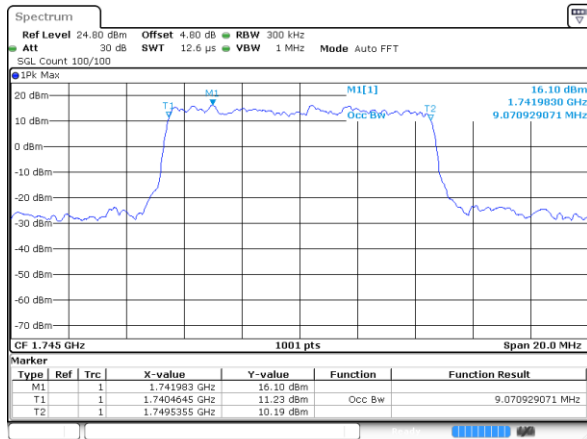
Date: 2.OCT.2018 21:21:01

Lowest Channel / 10MHz / 16QAM



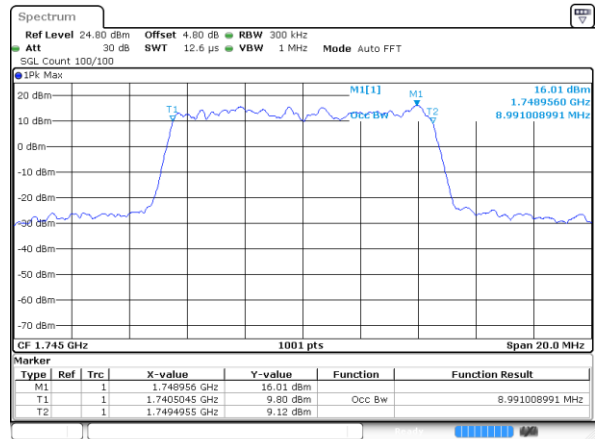
Date: 2.OCT.2018 21:21:17

Middle Channel / 10MHz / QPSK



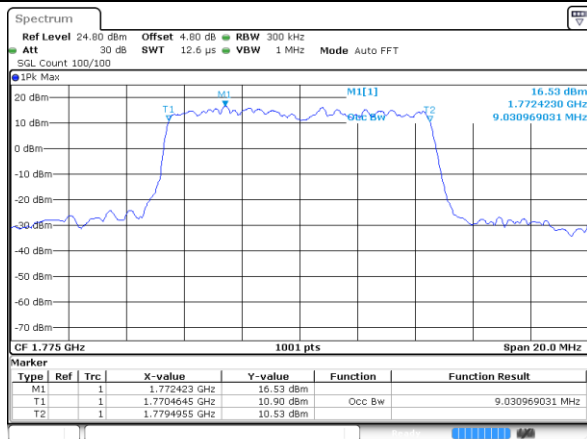
Date: 2.OCT.2018 21:28:13

Middle Channel / 10MHz / 16QAM



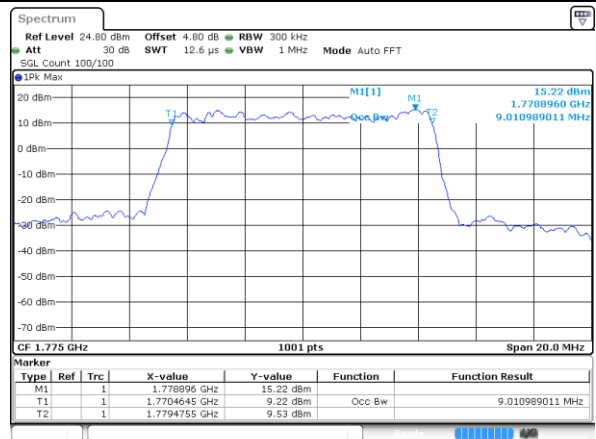
Date: 2.OCT.2018 21:27:58

Highest Channel / 10MHz / QPSK



Date: 2.OCT.2018 21:28:56

Highest Channel / 10MHz / 16QAM



Date: 2.OCT.2018 21:28:28