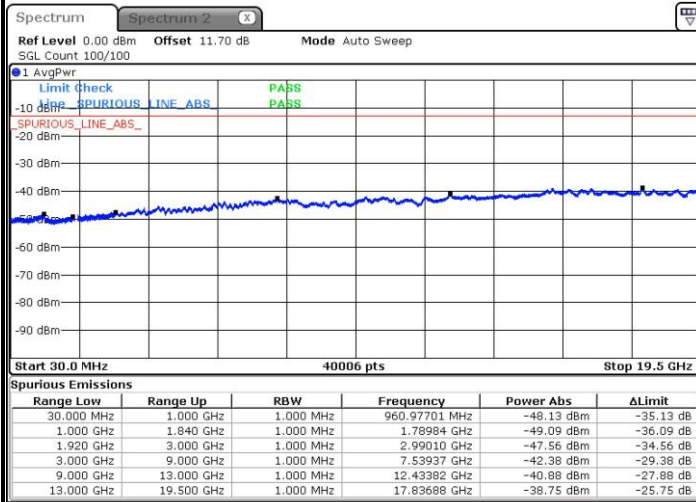




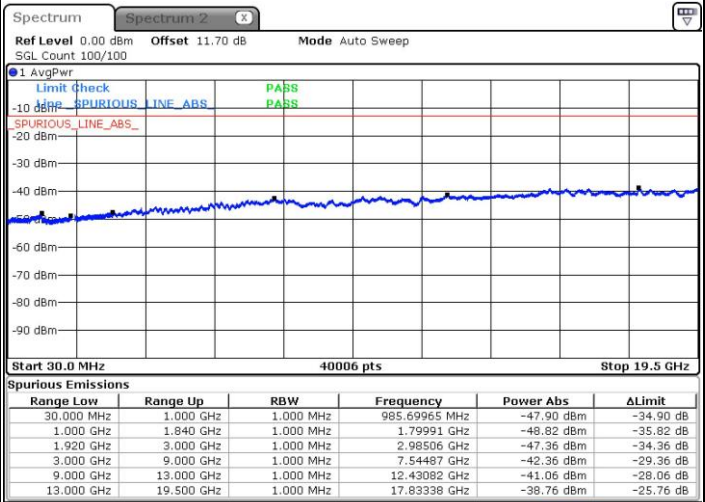
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 26 APR 2018 15:09:14

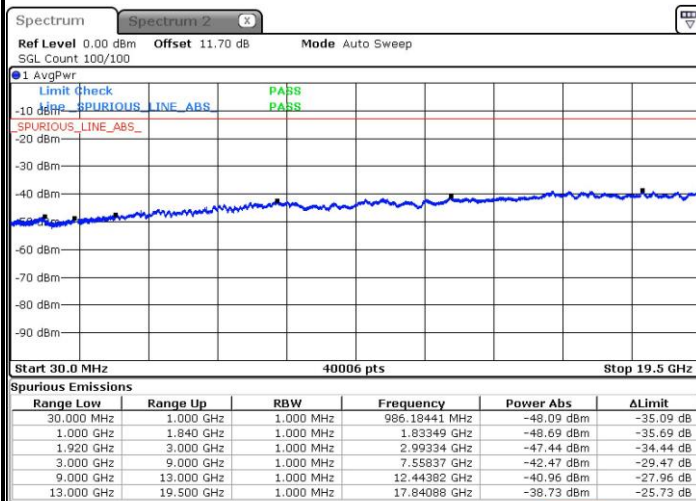
Highest Channel / 16QAM



Date: 26 APR 2018 15:10:08

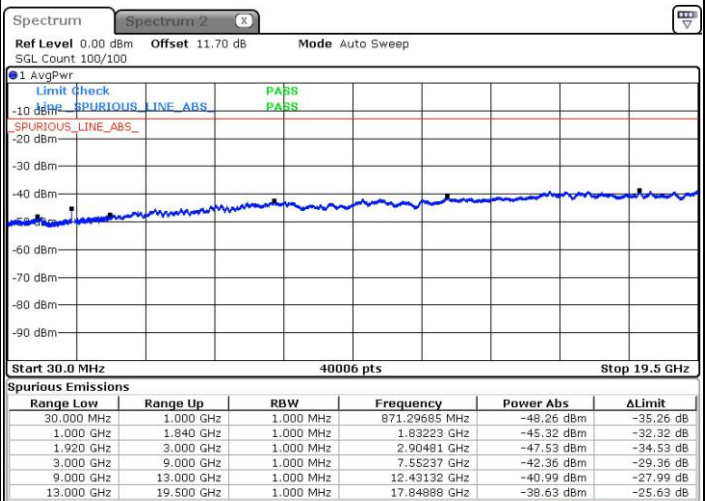
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 26 APR 2018 15:16:20

Lowest Channel / 16QAM

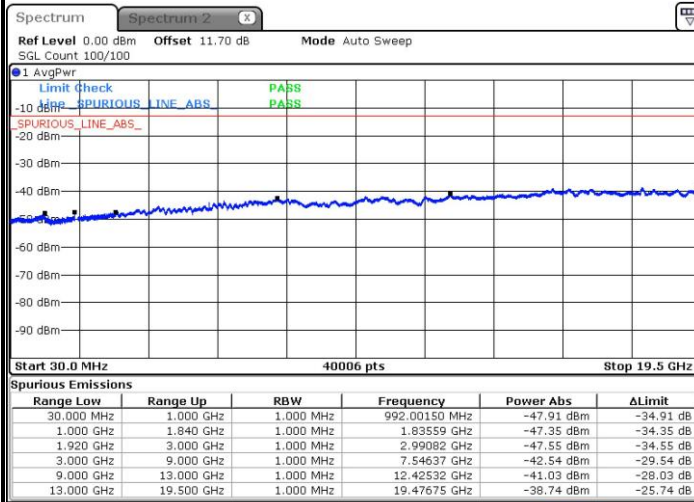


Date: 26 APR 2018 15:17:15



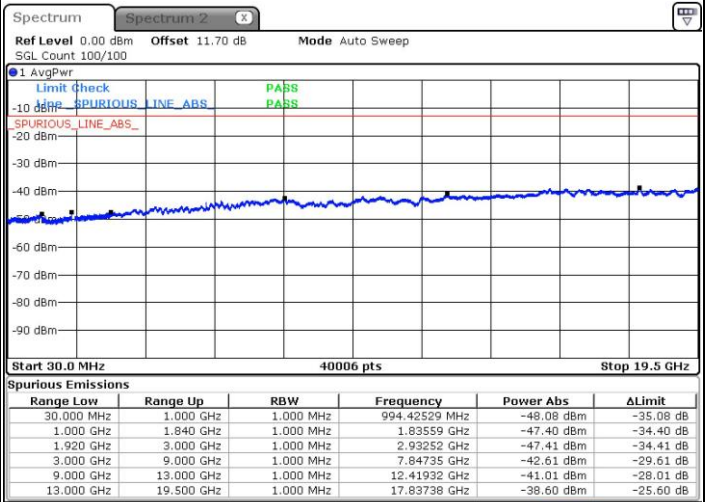
LTE Band 2 / 20MHz

Middle Channel / QPSK



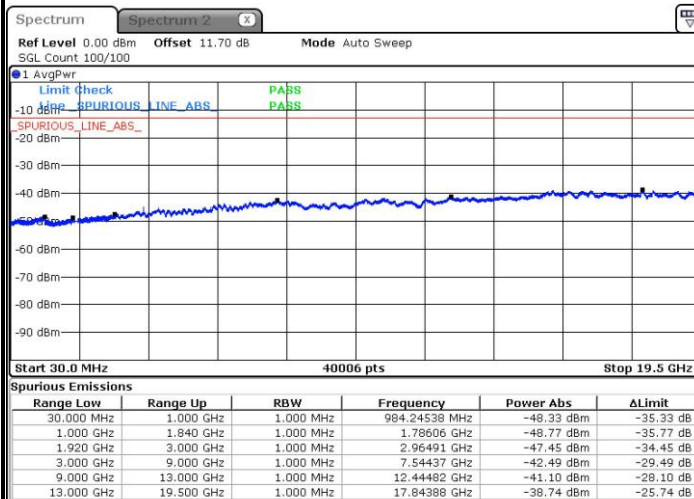
Date: 26 APR 2018 15:18:50

Middle Channel / 16QAM



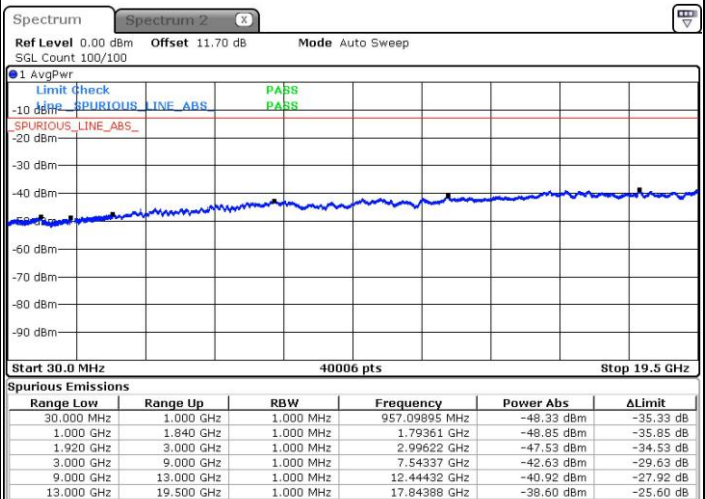
Date: 26 APR 2018 15:19:45

Highest Channel / QPSK



Date: 26 APR 2018 15:25:56

Highest Channel / 16QAM



Date: 26 APR 2018 15:26:51

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	0.0003	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0057	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0061	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0062	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0066	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0007	

Note:

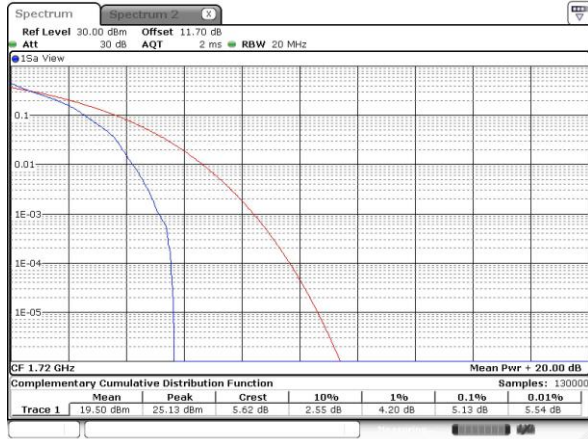
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



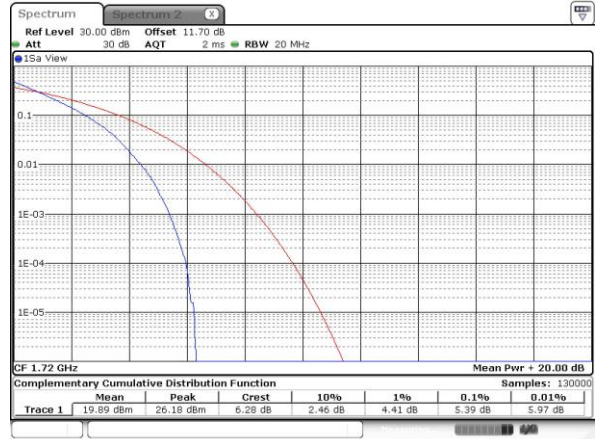
LTE Band 4

Peak-to-Average Ratio

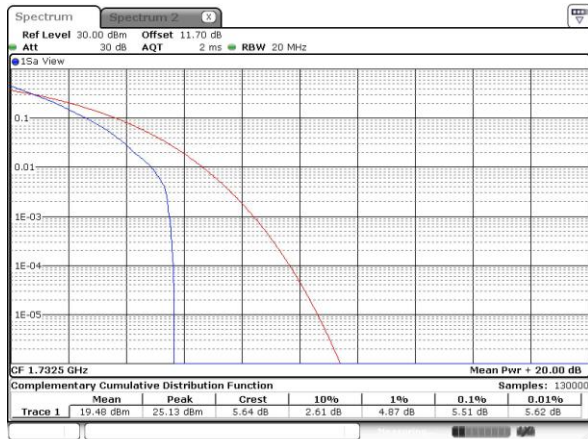
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.13	5.39	6.49	6.23	PASS
Middle CH	5.51	5.45	6.49	6.35	
Highest CH	5.68	5.45	6.46	6.32	

LTE Band 4 / 20MHz / QPSK
Lowest Channel / 1RB


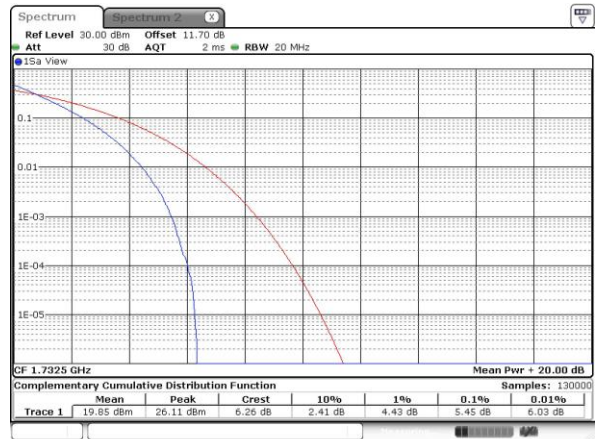
Date: 26 APR 2018 23:52:51

Lowest Channel / Full RB


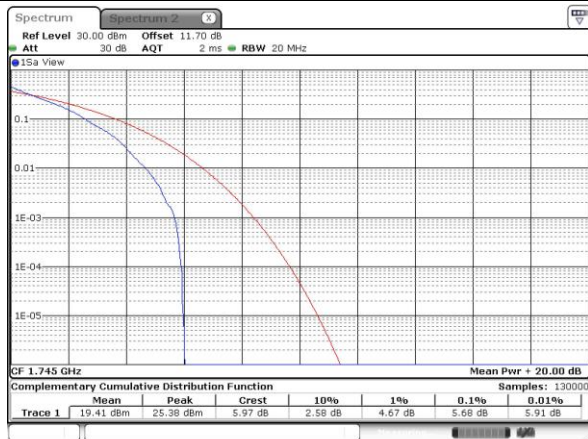
Date: 26 APR 2018 23:53:00

Middle Channel / 1RB


Date: 26 APR 2018 23:53:10

Middle Channel / Full RB


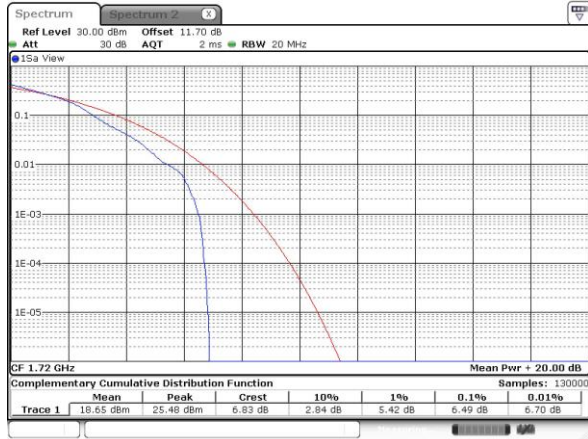
Date: 26 APR 2018 23:53:21

Highest Channel / 1RB


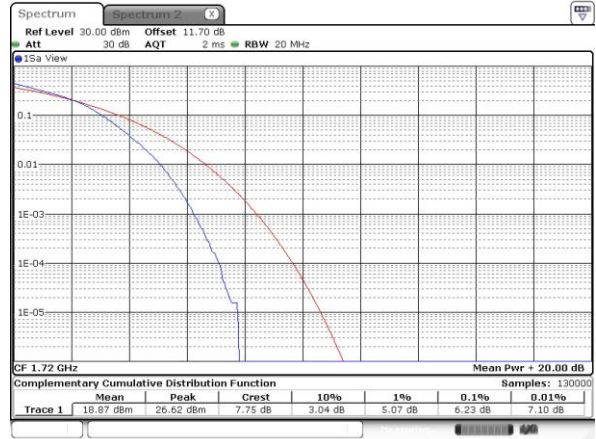
Date: 26 APR 2018 23:53:31

Highest Channel / Full RB

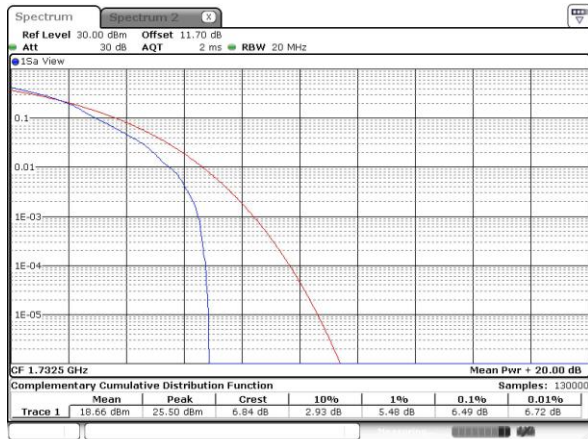

Date: 26 APR 2018 23:53:42

LTE Band 4 / 20MHz / 16QAM
Lowest Channel / 1RB


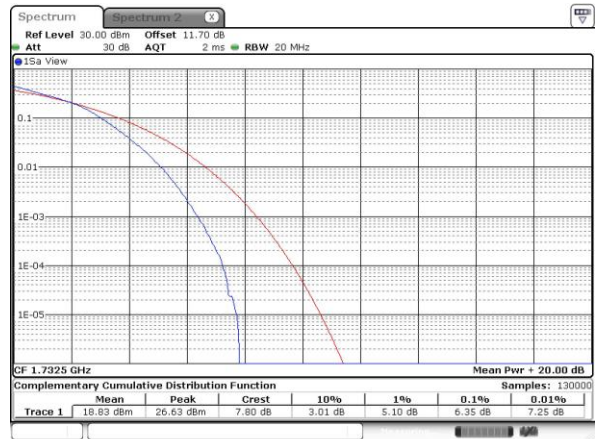
Date: 26 APR 2018 23:51:46

Lowest Channel / Full RB


Date: 26 APR 2018 23:51:57

Middle Channel / 1RB


Date: 26 APR 2018 23:52:10

Middle Channel / Full RB


Date: 26 APR 2018 23:52:20

Highest Channel / 1RB


Date: 26 APR 2018 23:52:31

Highest Channel / Full RB


Date: 26 APR 2018 23:52:41



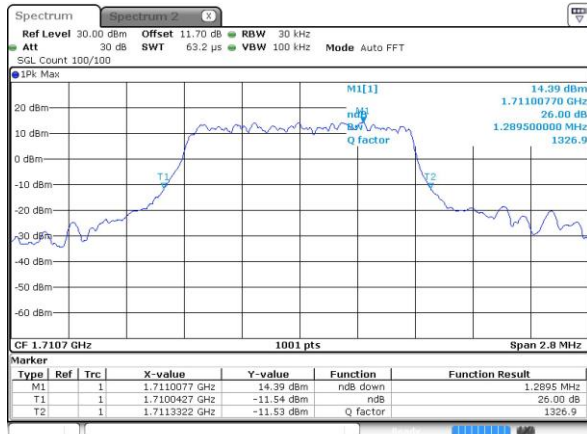
26dB Bandwidth

Mode	LTE Band 4 : 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	1.29	1.33	3.09	2.96	5.08	4.89	10.57	9.83	14.48	14.99	20.26	20.18
Middle CH	1.33	1.28	3.00	3.08	4.89	4.75	9.69	10.15	14.81	14.63	20.26	20.18
Highest CH	1.32	1.35	3.12	2.99	4.98	5.00	9.95	10.05	14.90	15.32	20.18	20.50



LTE Band 4

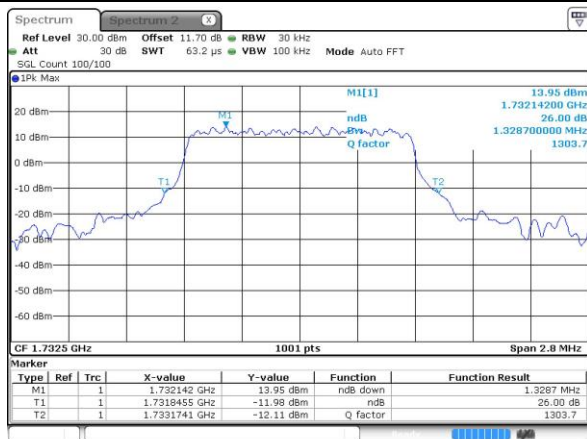
Lowest Channel / 1.4MHz / QPSK



Lowest Channel / 1.4MHz / 16QAM



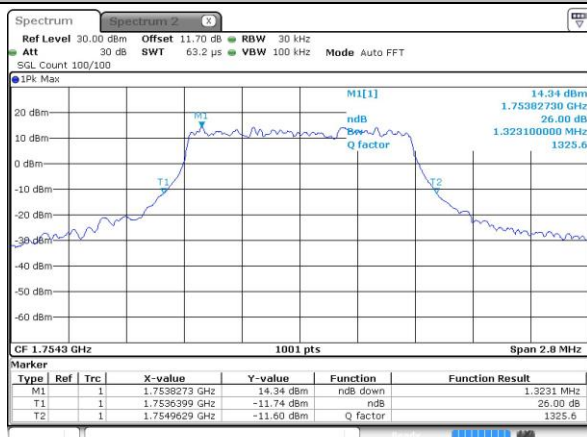
Middle Channel / 1.4MHz / QPSK



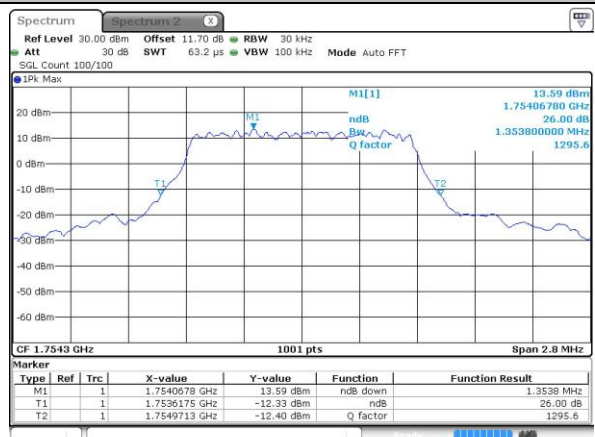
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



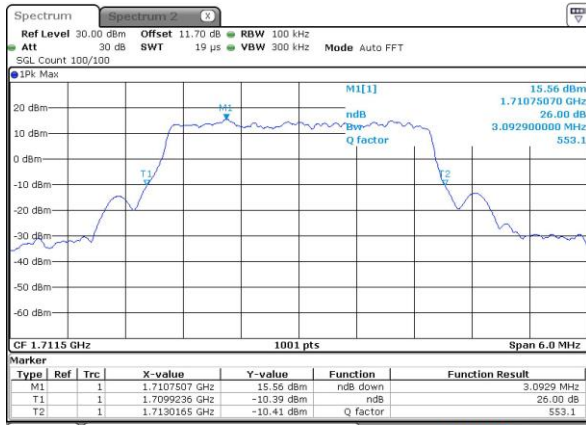
Highest Channel / 1.4MHz / 16QAM





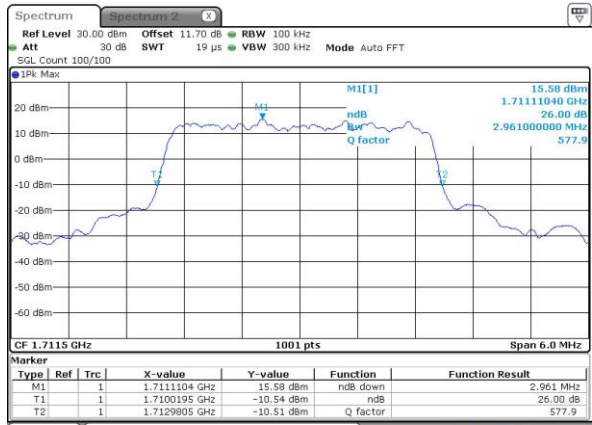
LTE Band 4

Lowest Channel / 3MHz / QPSK



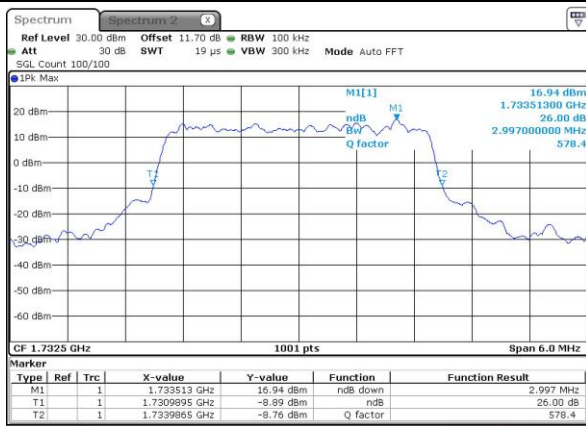
Date: 26 APR 2018 22:01:28

Lowest Channel / 3MHz / 16QAM



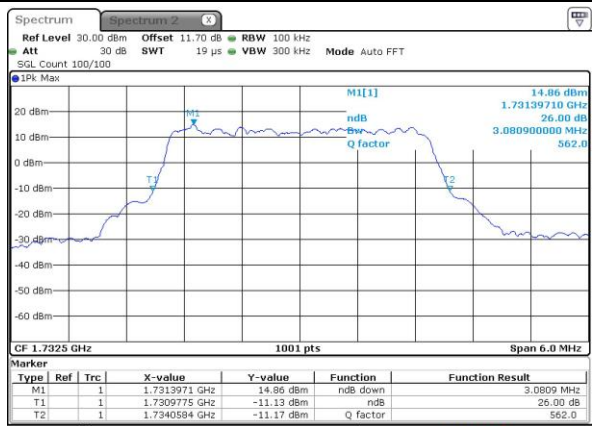
Date: 26 APR 2018 22:01:39

Middle Channel / 3MHz / QPSK



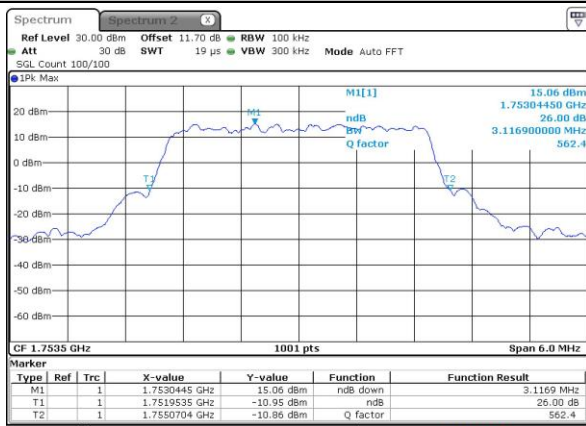
Date: 26 APR 2018 22:08:36

Middle Channel / 3MHz / 16QAM



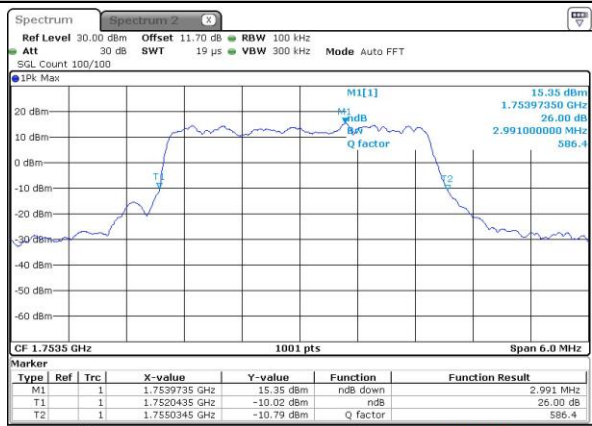
Date: 26 APR 2018 22:08:47

Highest Channel / 3MHz / QPSK



Date: 26 APR 2018 22:11:07

Highest Channel / 3MHz / 16QAM

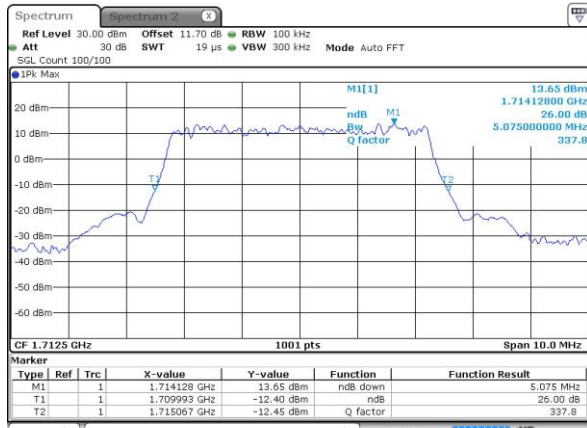


Date: 26 APR 2018 22:11:18



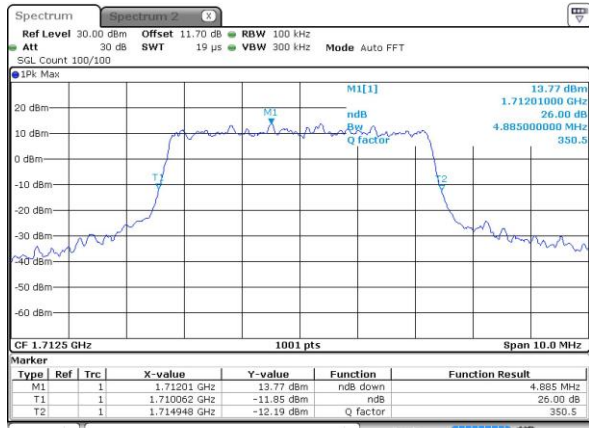
LTE Band 4

Lowest Channel / 5MHz / QPSK



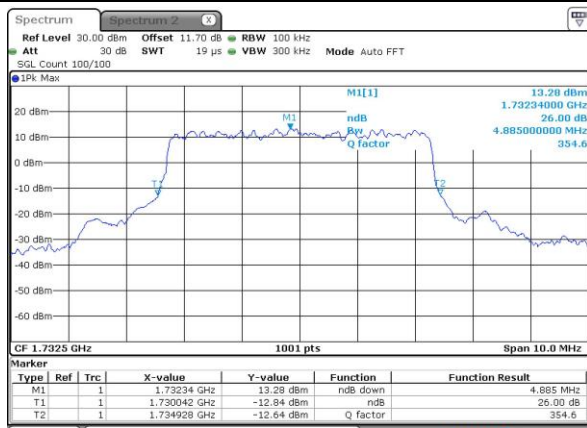
Date: 26 APR 2018 22:18:16

Lowest Channel / 5MHz / 16QAM



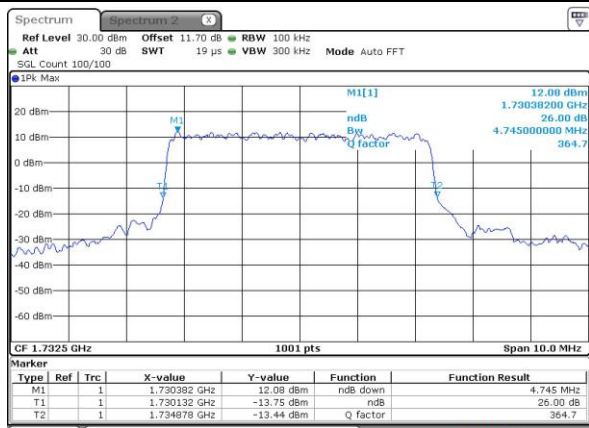
Date: 26 APR 2018 22:18:26

Middle Channel / 5MHz / QPSK



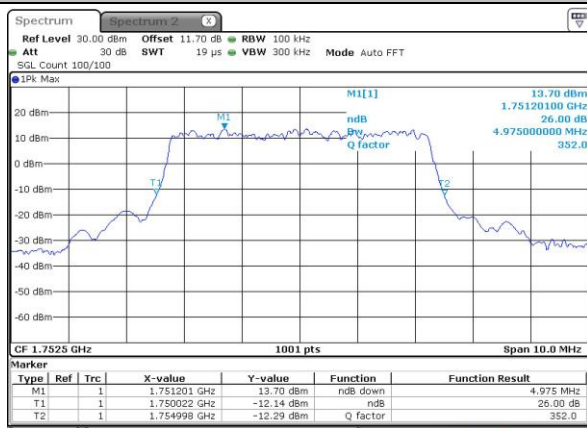
Date: 26 APR 2018 22:25:23

Middle Channel / 5MHz / 16QAM



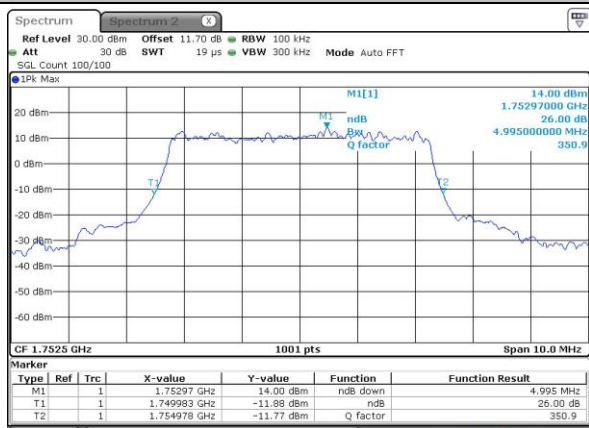
Date: 26 APR 2018 22:25:34

Highest Channel / 5MHz / QPSK



Date: 26 APR 2018 22:27:54

Highest Channel / 5MHz / 16QAM

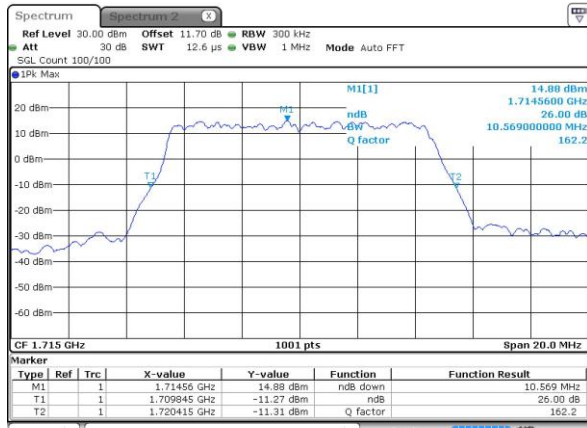


Date: 26 APR 2018 22:28:05



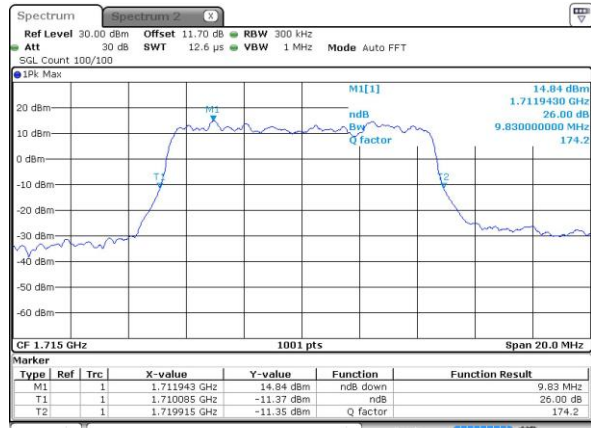
LTE Band 4

Lowest Channel / 10MHz / QPSK



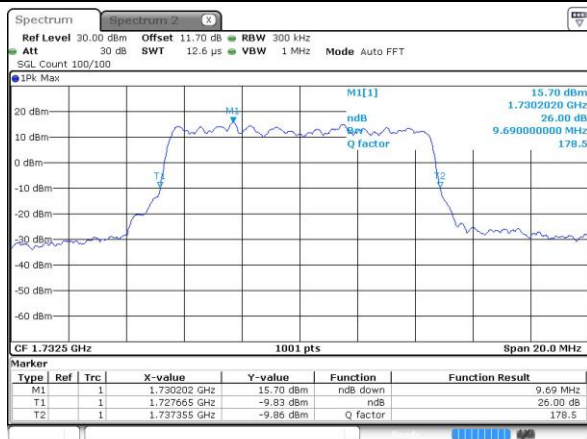
Date: 26 APR 2018 22:35:02

Lowest Channel / 10MHz / 16QAM



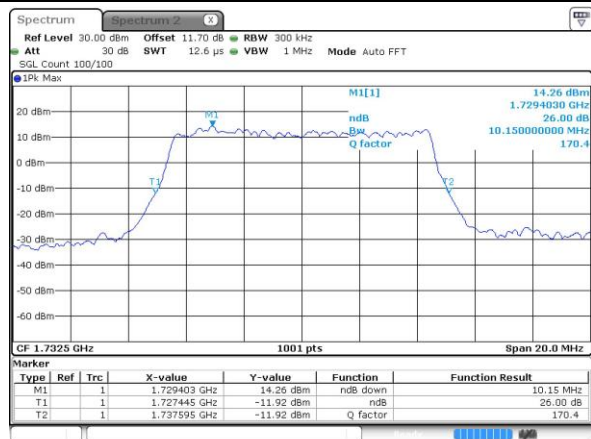
Date: 26 APR 2018 22:35:13

Middle Channel / 10MHz / QPSK



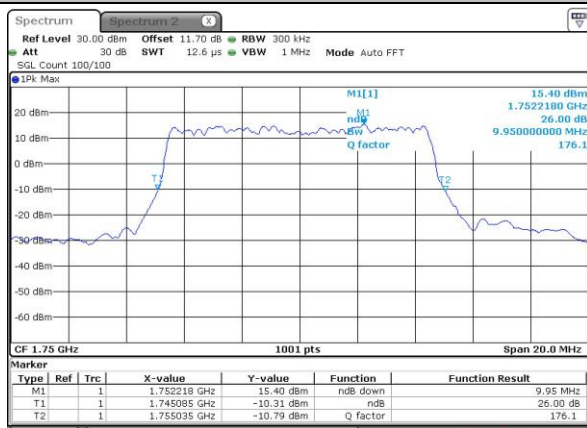
Date: 26 APR 2018 22:42:10

Middle Channel / 10MHz / 16QAM



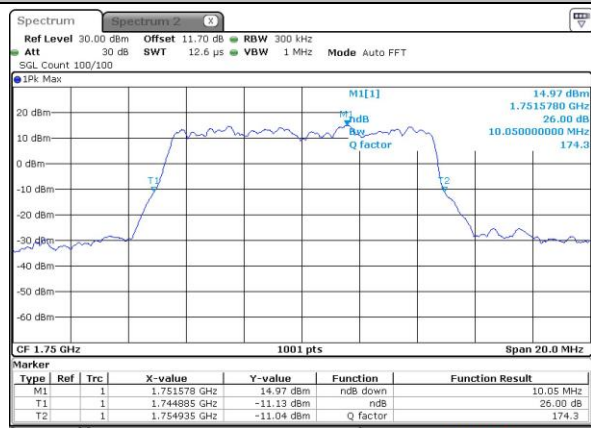
Date: 26 APR 2018 22:42:20

Highest Channel / 10MHz / QPSK



Date: 26 APR 2018 22:44:41

Highest Channel / 10MHz / 16QAM

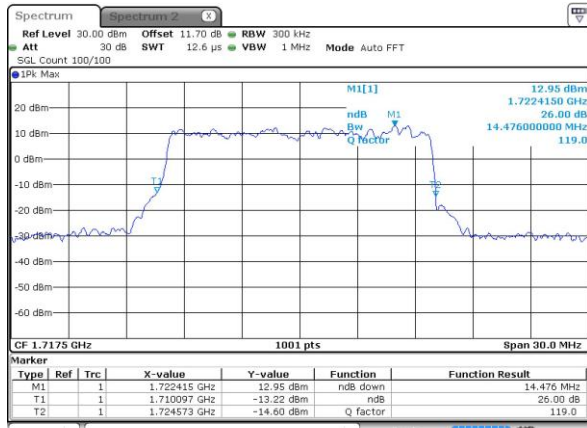


Date: 26 APR 2018 22:44:51

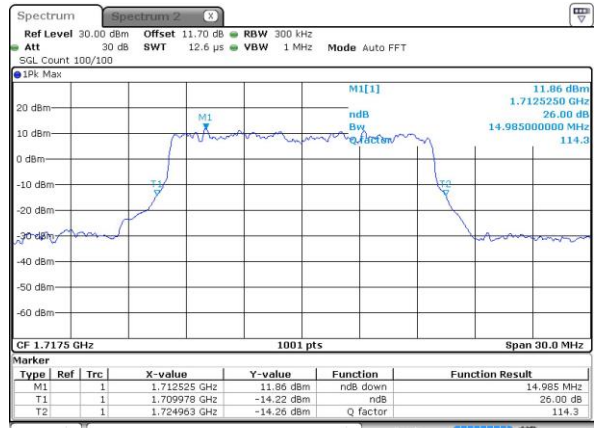


LTE Band 4

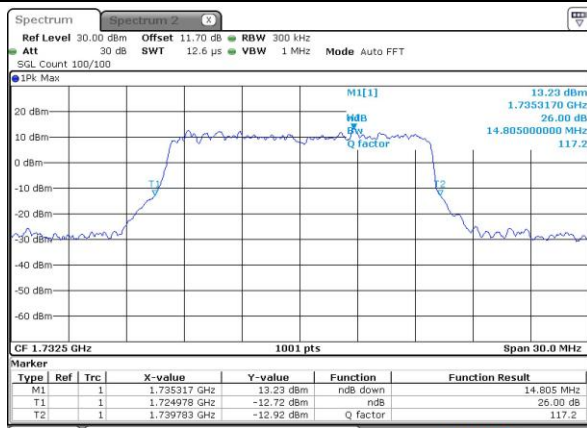
Lowest Channel / 15MHz / QPSK



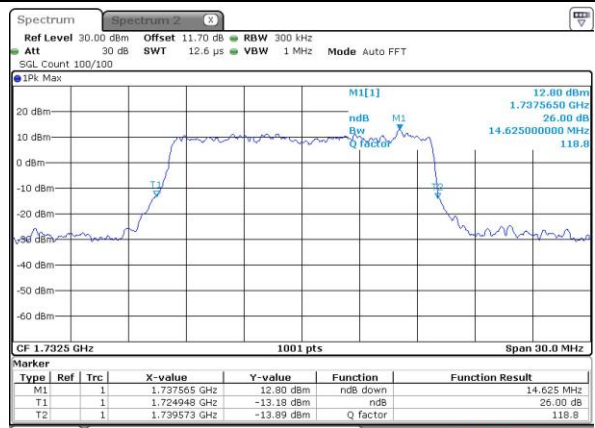
Lowest Channel / 15MHz / 16QAM



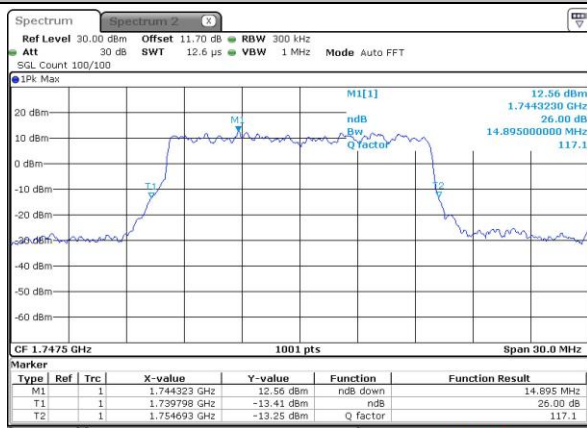
Middle Channel / 15MHz / QPSK



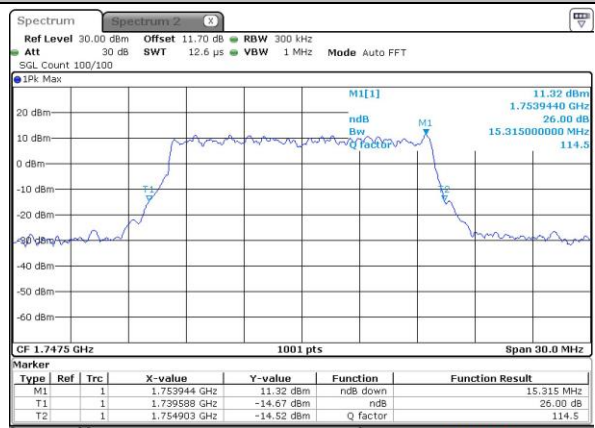
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



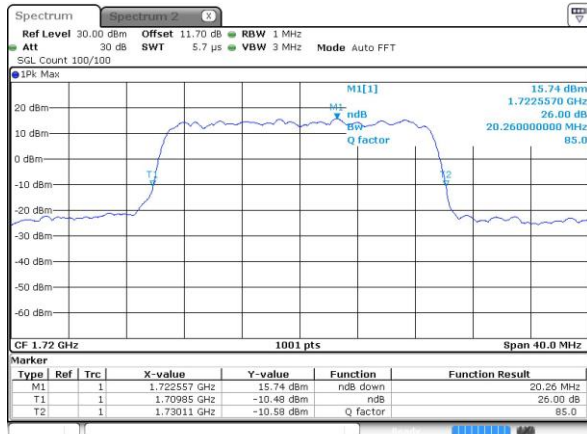
Highest Channel / 15MHz / 16QAM



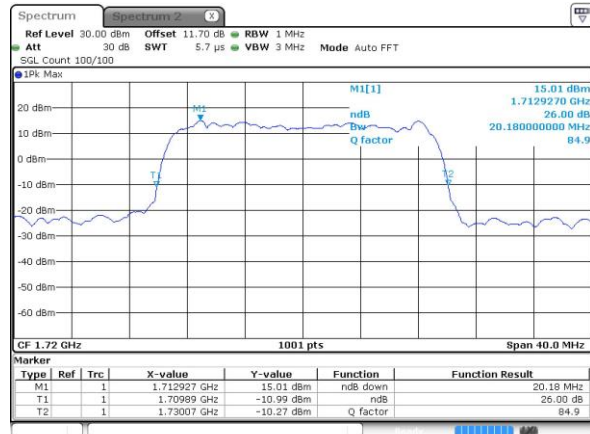


LTE Band 4

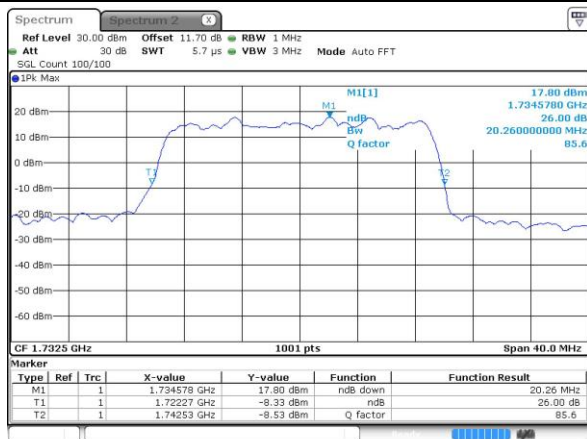
Lowest Channel / 20MHz / QPSK



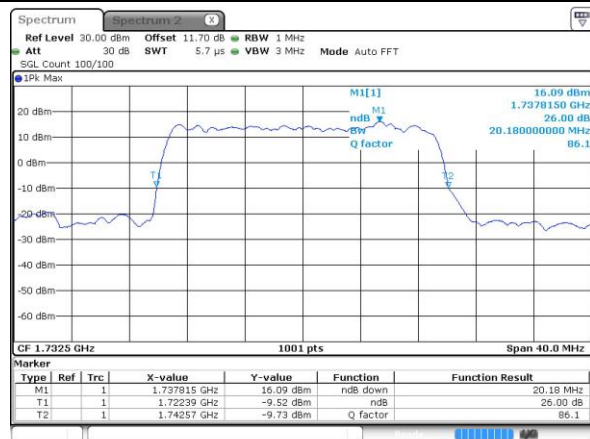
Lowest Channel / 20MHz / 16QAM



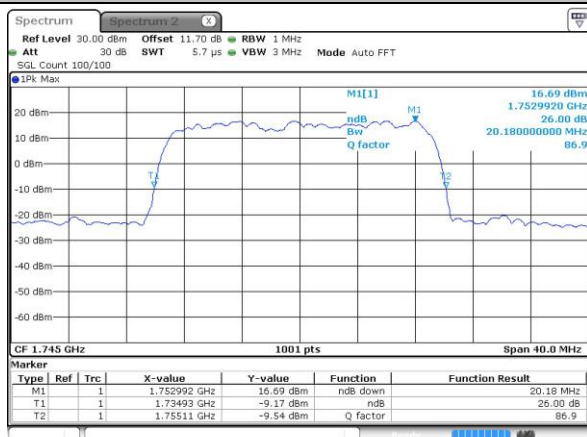
Middle Channel / 20MHz / QPSK



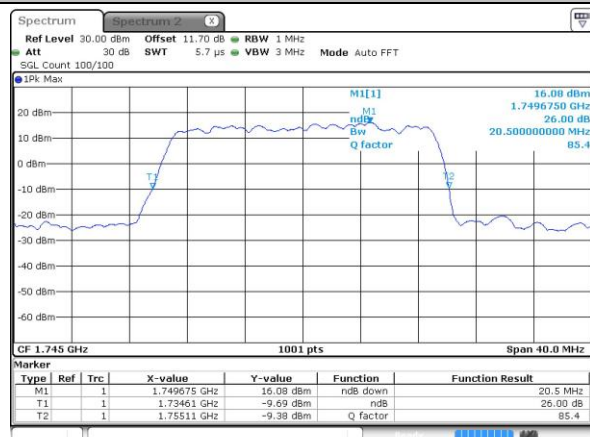
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM





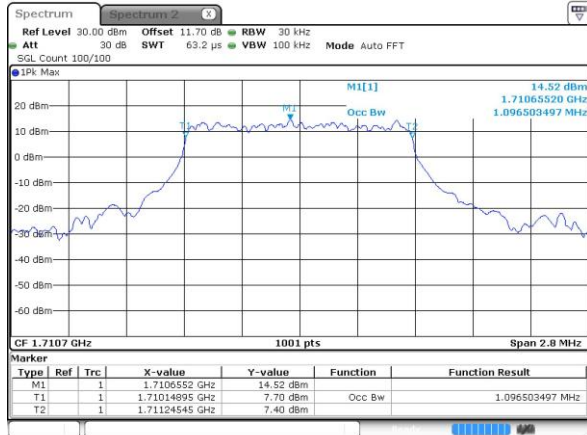
Occupied Bandwidth

Mode	LTE Band 4 : 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	1.1	1.09	2.73	2.72	4.5	4.47	8.99	9.01	13.46	13.58	18.34	18.62
Middle CH	1.09	1.09	2.72	2.71	4.49	4.48	9.09	9.01	13.43	13.46	18.42	18.46
Highest CH	1.09	1.1	2.73	2.7	4.5	4.51	9.03	9.05	13.43	13.46	18.34	18.34



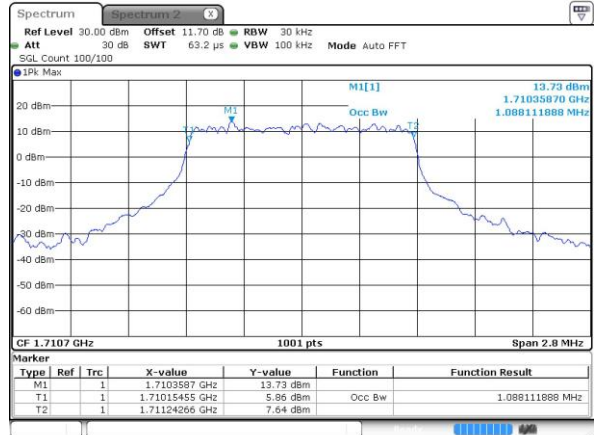
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



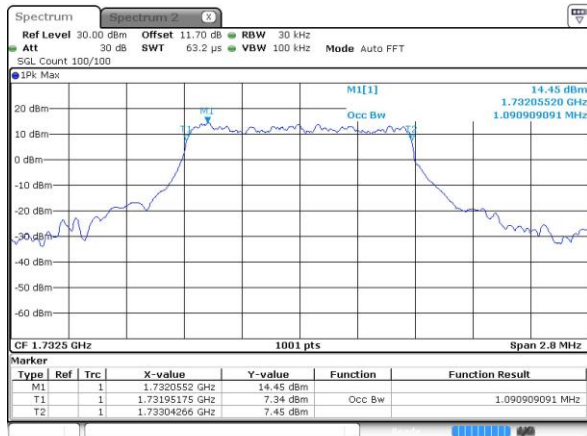
Date: 26 APR 2018 23:28:28

Lowest Channel / 1.4MHz / 16QAM



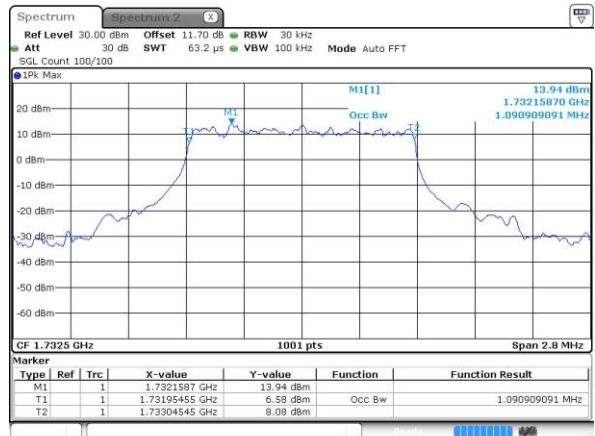
Date: 26 APR 2018 23:28:39

Middle Channel / 1.4MHz / QPSK



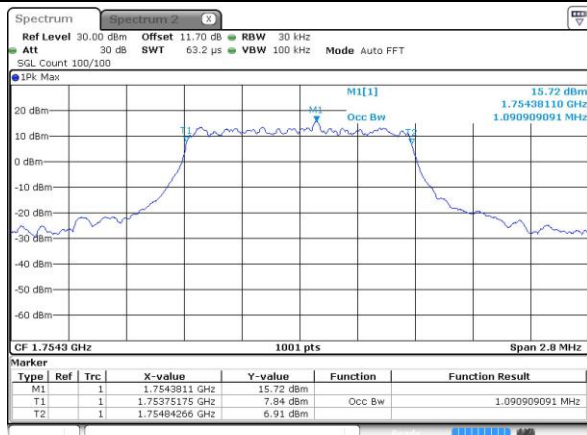
Date: 26 APR 2018 23:35:36

Middle Channel / 1.4MHz / 16QAM



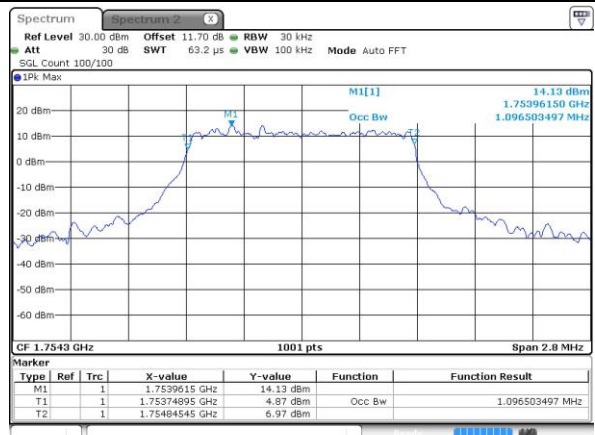
Date: 26 APR 2018 23:35:46

Highest Channel / 1.4MHz / QPSK



Date: 26 APR 2018 23:38:06

Highest Channel / 1.4MHz / 16QAM

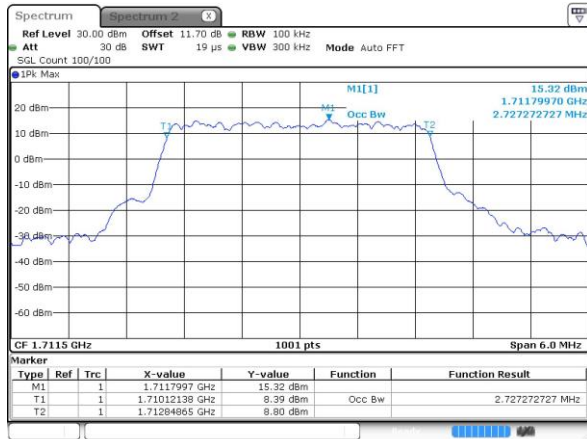


Date: 26 APR 2018 23:38:17



LTE Band 4

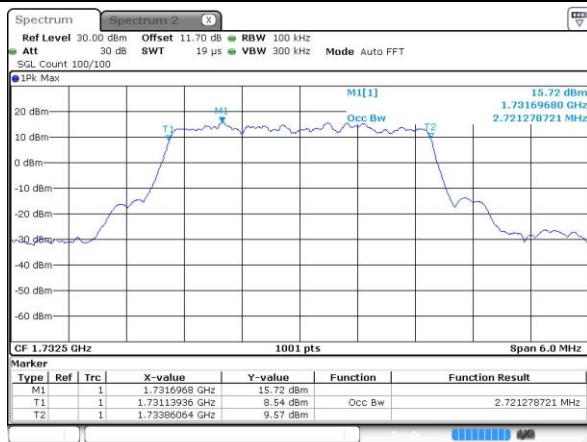
Lowest Channel / 3MHz / QPSK



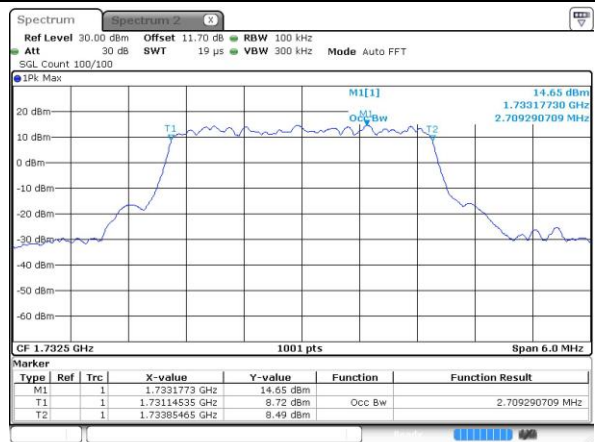
Lowest Channel / 3MHz / 16QAM



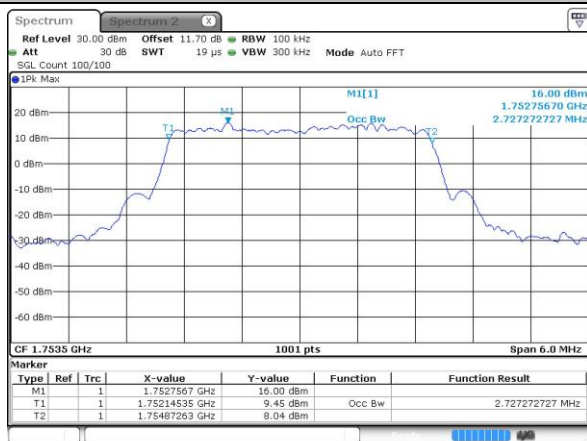
Middle Channel / 3MHz / QPSK



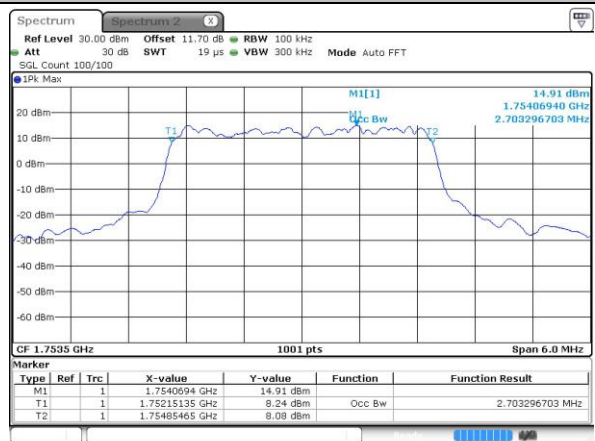
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



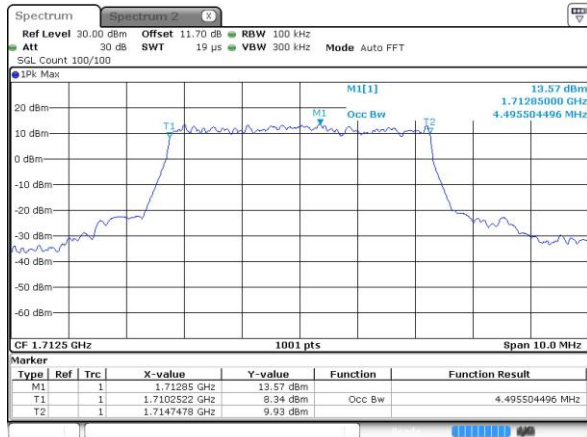
Highest Channel / 3MHz / 16QAM





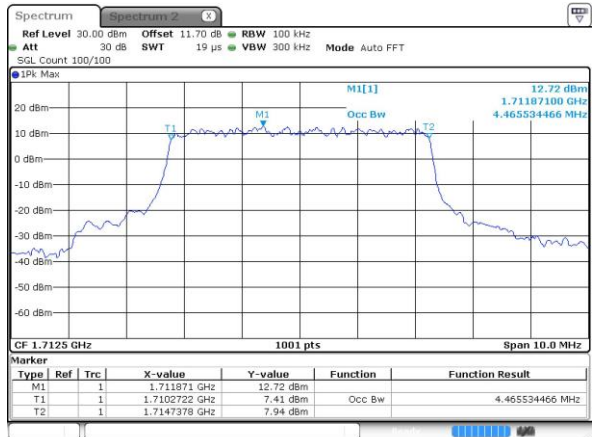
LTE Band 4

Lowest Channel / 5MHz / QPSK



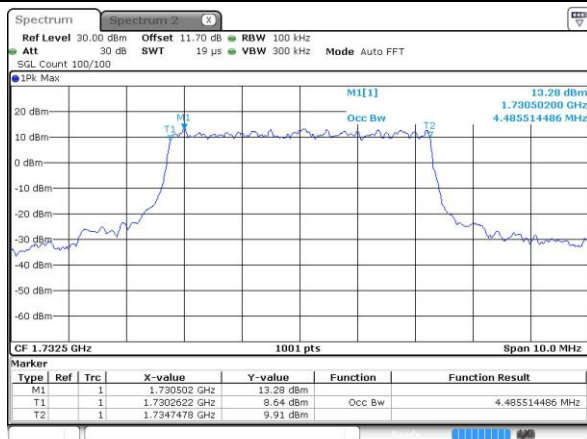
Date: 26 APR 2018 22:17:55

Lowest Channel / 5MHz / 16QAM



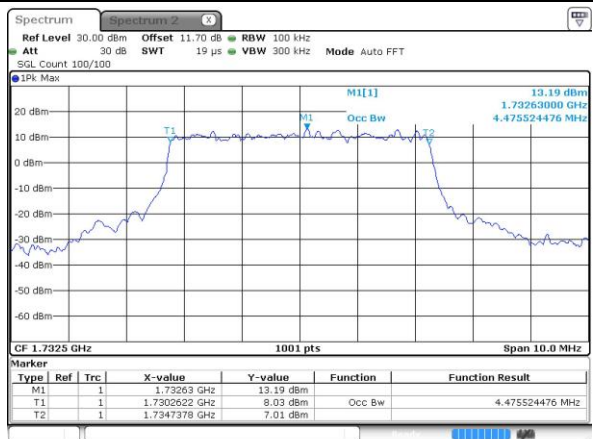
Date: 26 APR 2018 22:18:05

Middle Channel / 5MHz / QPSK



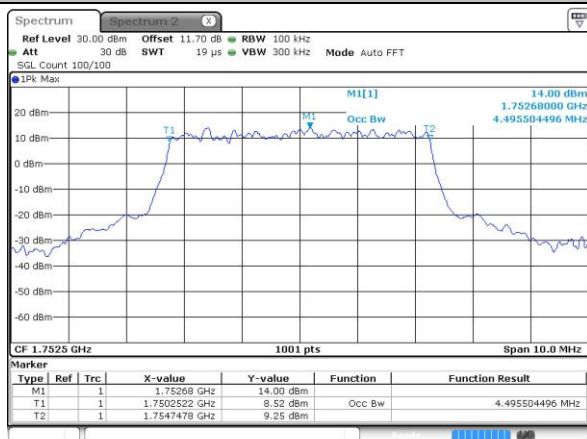
Date: 26 APR 2018 22:25:02

Middle Channel / 5MHz / 16QAM



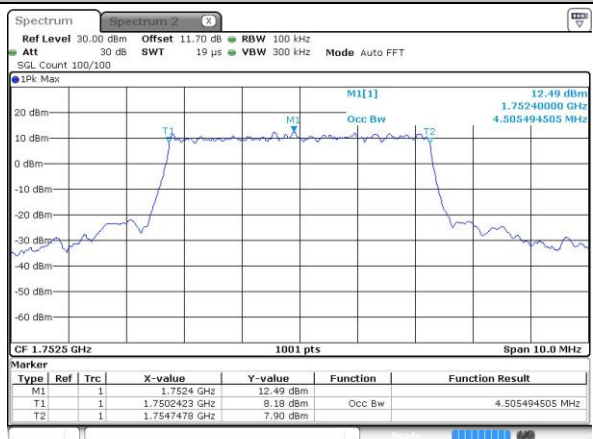
Date: 26 APR 2018 22:25:13

Highest Channel / 5MHz / QPSK



Date: 26 APR 2018 22:27:33

Highest Channel / 5MHz / 16QAM

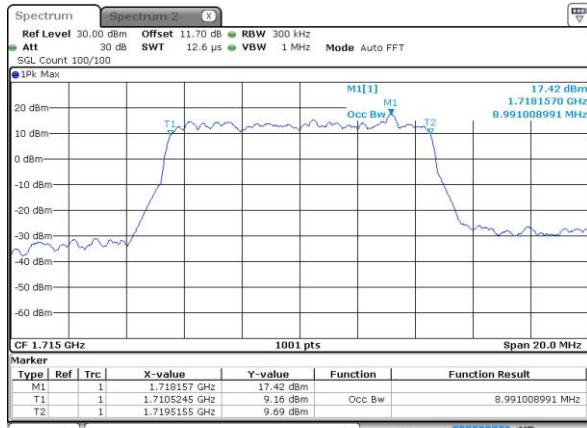


Date: 26 APR 2018 22:27:44



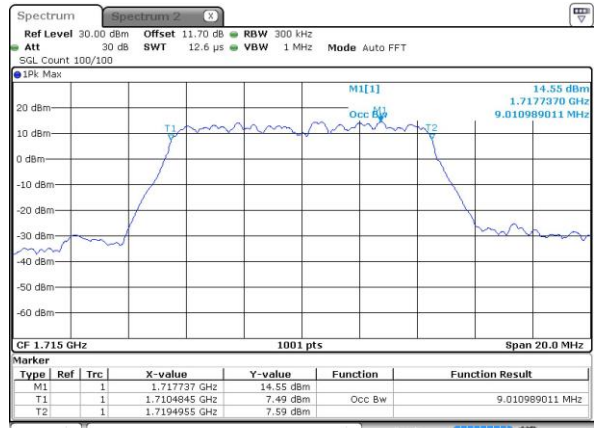
LTE Band 4

Lowest Channel / 10MHz / QPSK



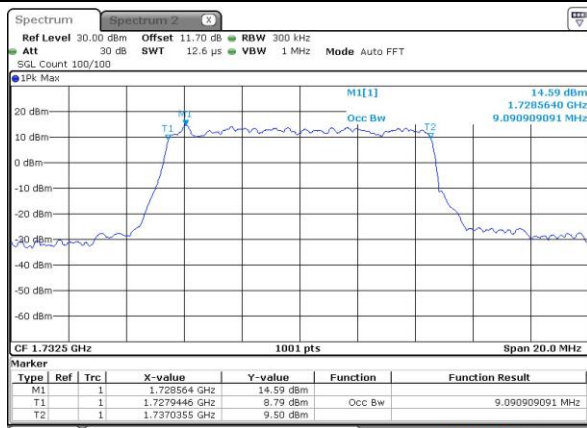
Date: 26 APR 2018 22:34:41

Lowest Channel / 10MHz / 16QAM



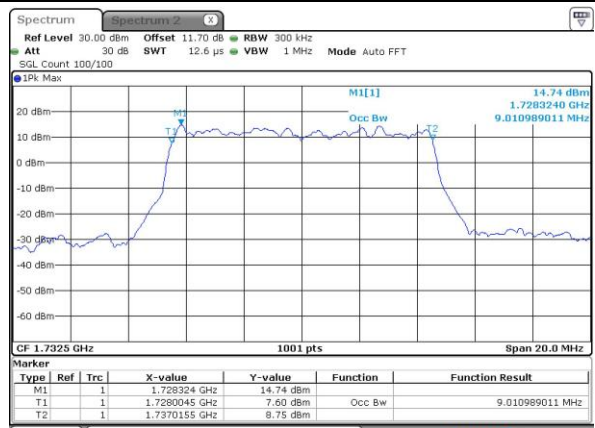
Date: 26 APR 2018 22:34:52

Middle Channel / 10MHz / QPSK



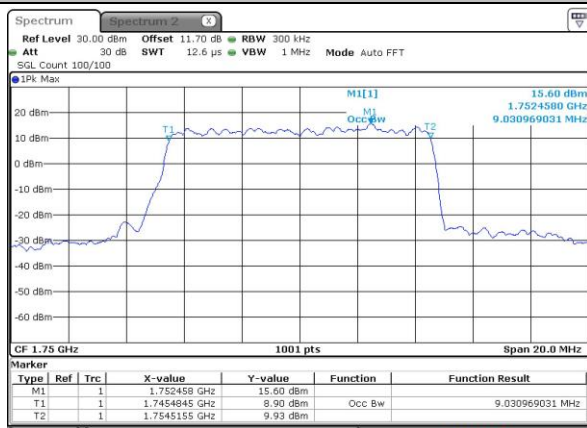
Date: 26 APR 2018 22:41:49

Middle Channel / 10MHz / 16QAM



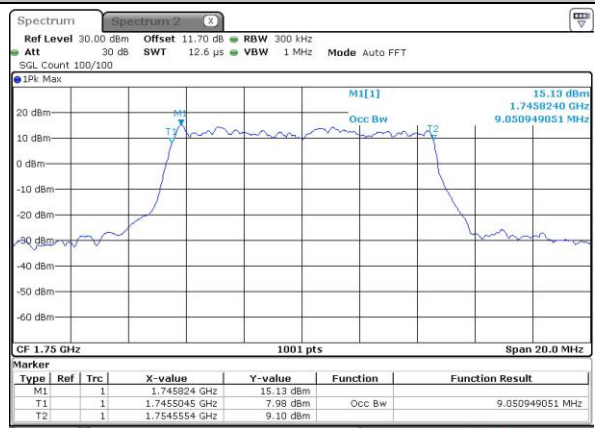
Date: 26 APR 2018 22:41:59

Highest Channel / 10MHz / QPSK



Date: 26 APR 2018 22:44:20

Highest Channel / 10MHz / 16QAM

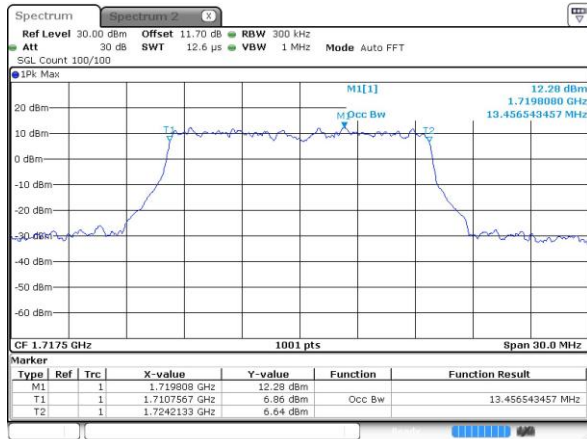


Date: 26 APR 2018 22:44:30

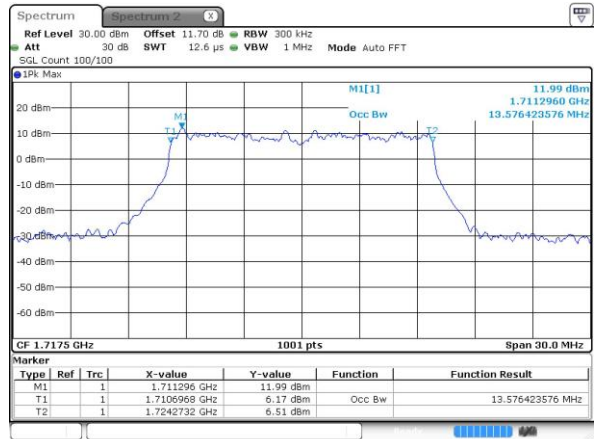


LTE Band 4

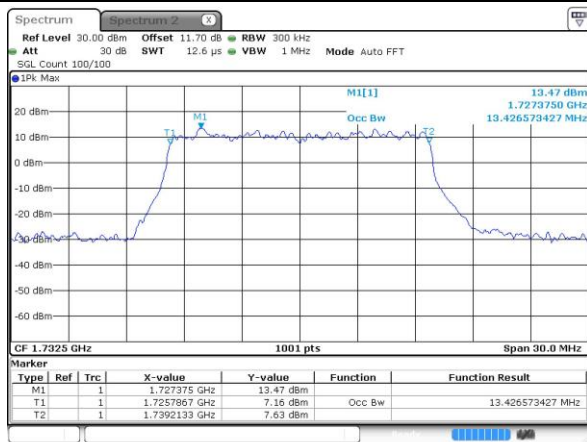
Lowest Channel / 15MHz / QPSK



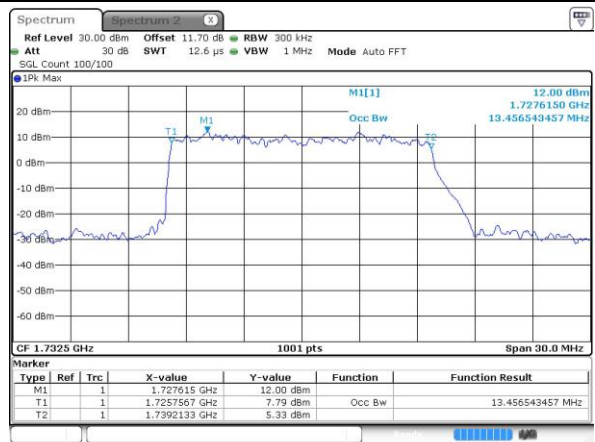
Lowest Channel / 15MHz / 16QAM



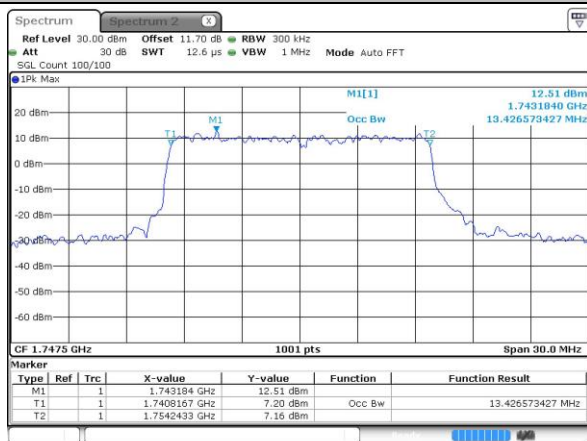
Middle Channel / 15MHz / QPSK



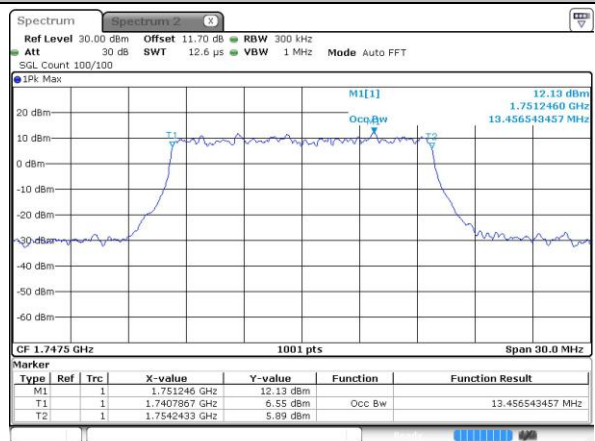
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



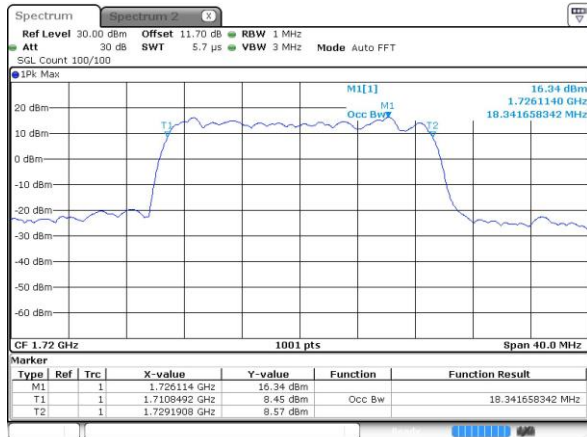
Highest Channel / 15MHz / 16QAM





LTE Band 4

Lowest Channel / 20MHz / QPSK



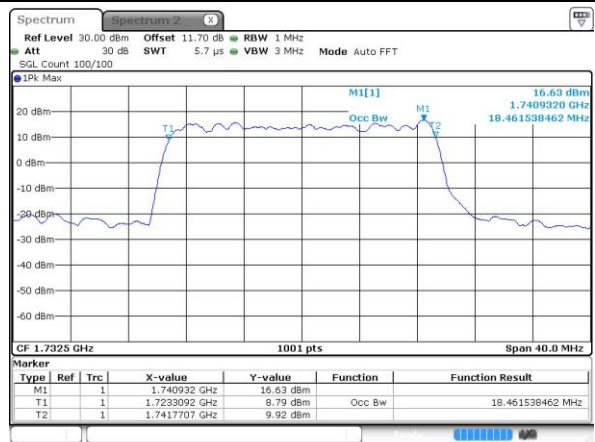
Lowest Channel / 20MHz / 16QAM



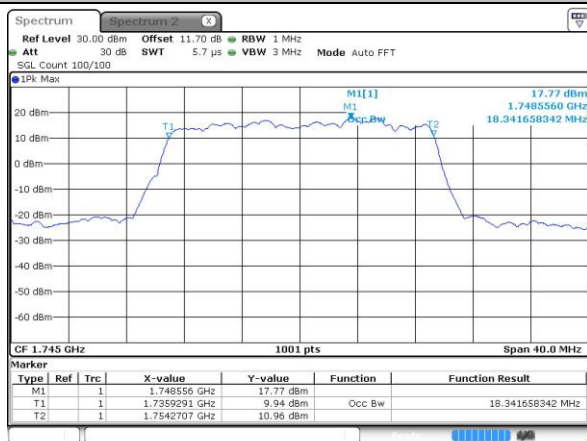
Middle Channel / 20MHz / QPSK



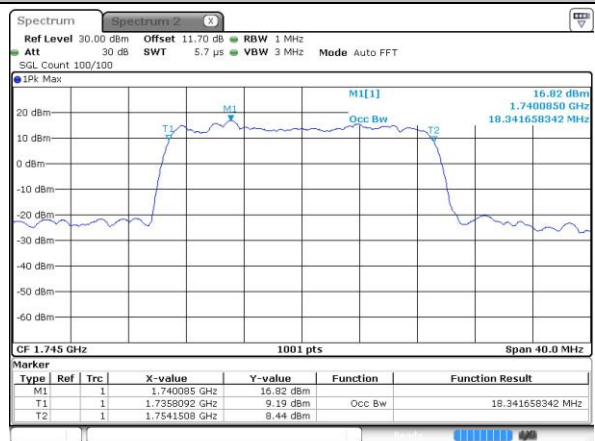
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM





Conducted Band Edge