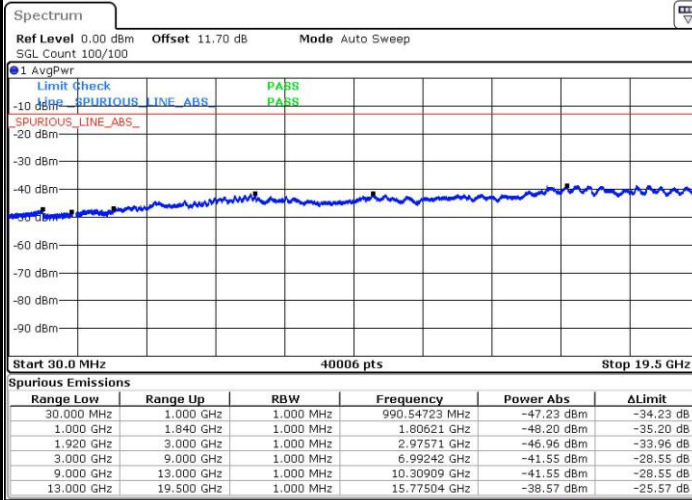




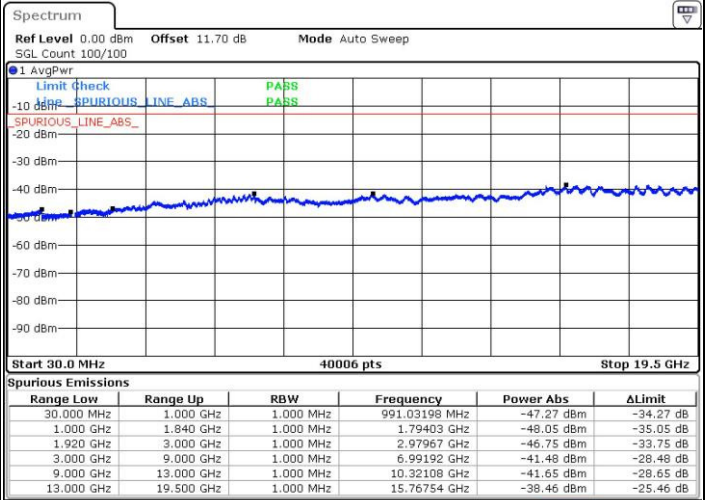
LTE Band 2 / 10MHz

Middle Channel / QPSK



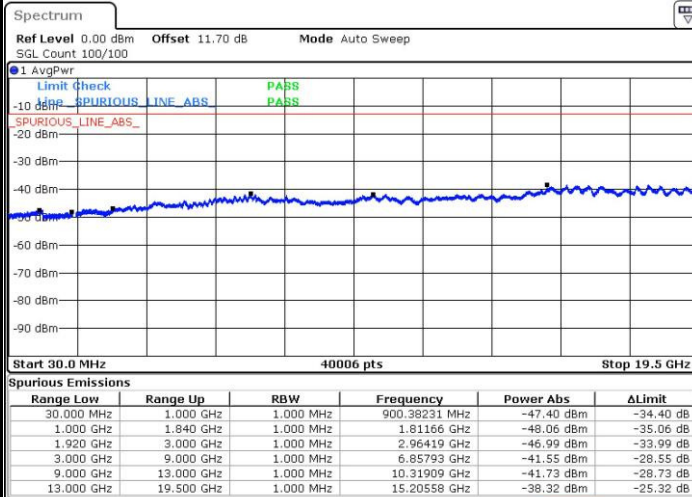
Date: 18 MAR 2017 00:35:27

Middle Channel / 16QAM



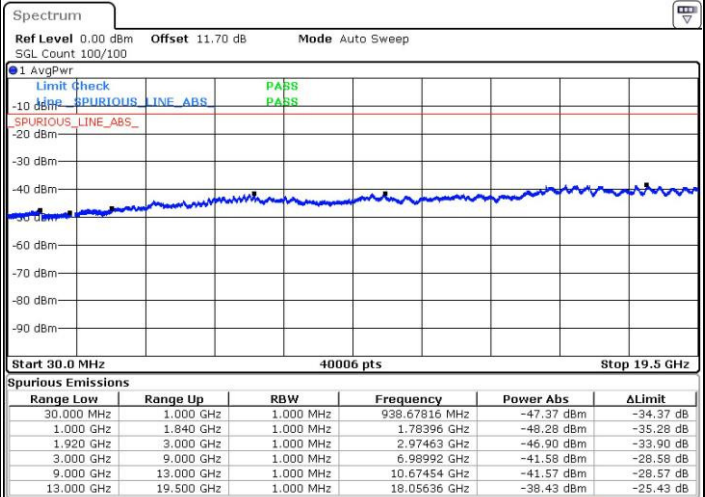
Date: 18 MAR 2017 00:36:21

Highest Channel / QPSK



Date: 18 MAR 2017 00:42:34

Highest Channel / 16QAM

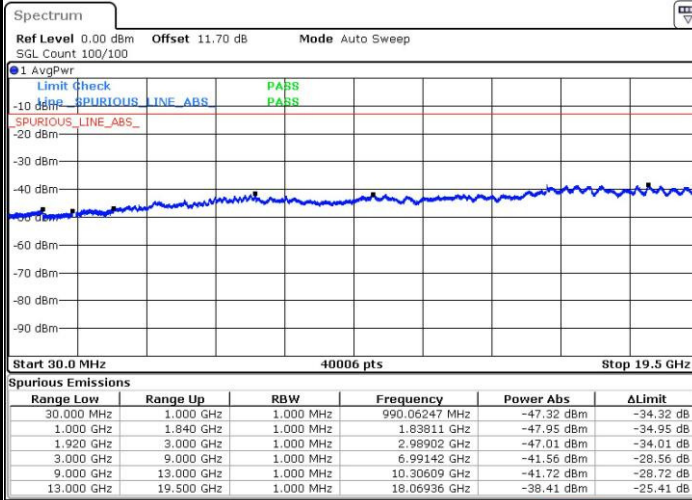


Date: 18 MAR 2017 00:43:28



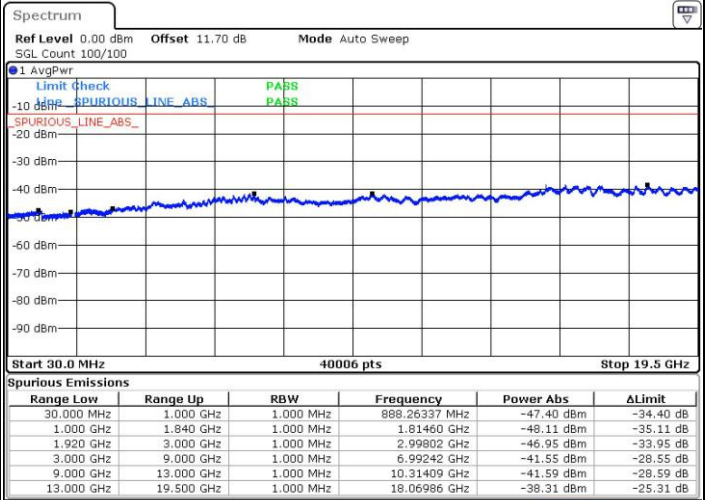
LTE Band 2 / 15MHz

Lowest Channel / QPSK



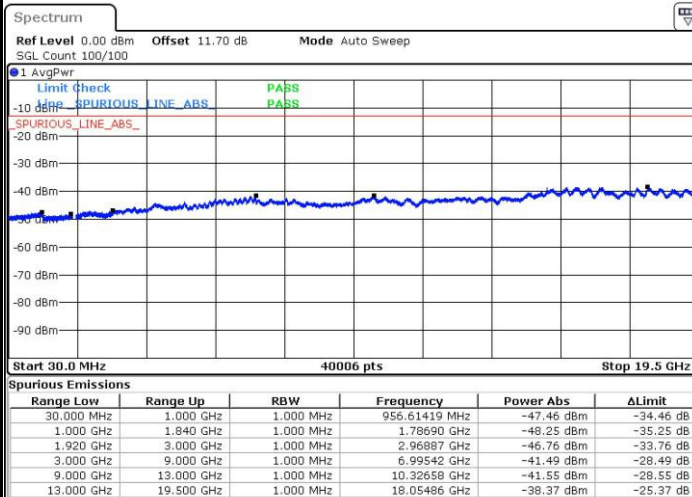
Date: 18 MAR 2017 00:49:41

Lowest Channel / 16QAM



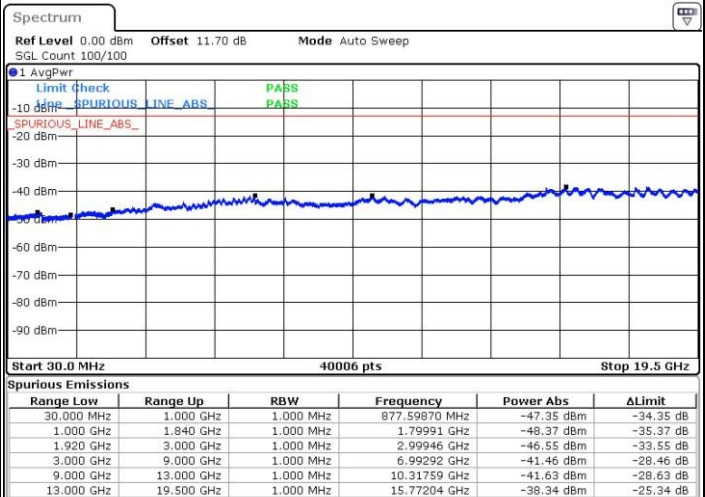
Date: 18 MAR 2017 00:50:36

Middle Channel / QPSK



Date: 18 MAR 2017 00:52:12

Middle Channel / 16QAM

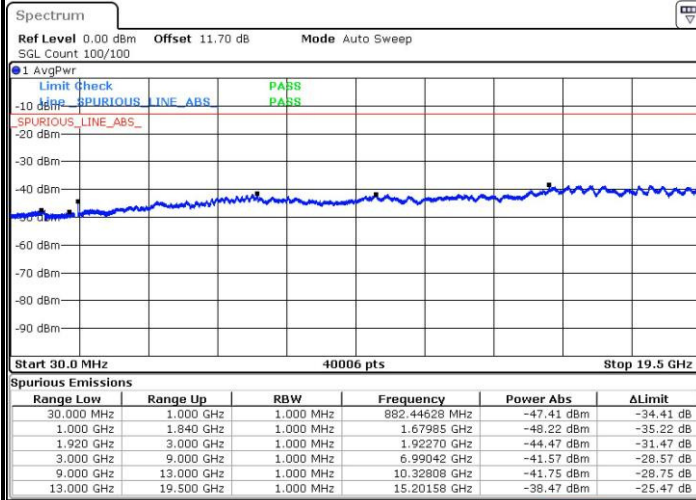


Date: 18 MAR 2017 00:53:06



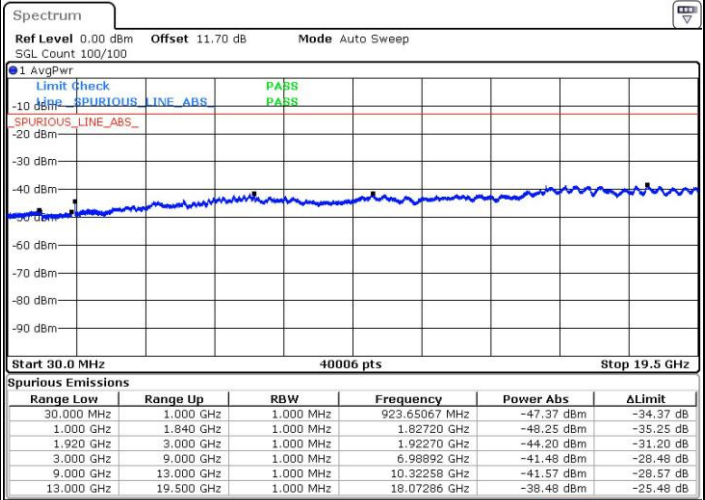
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 18 MAR 2017 00:59:19

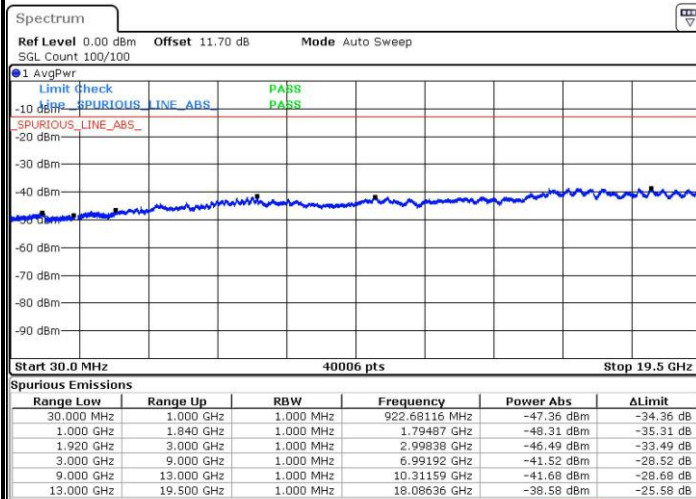
Highest Channel / 16QAM



Date: 18 MAR 2017 01:00:13

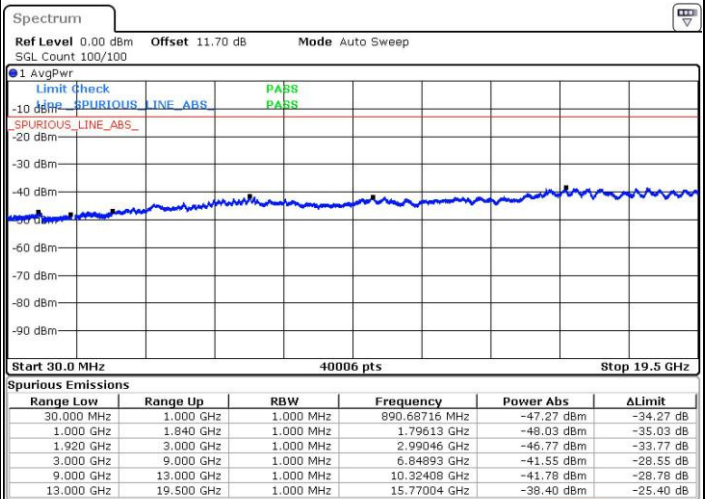
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 18 MAR 2017 01:06:26

Lowest Channel / 16QAM

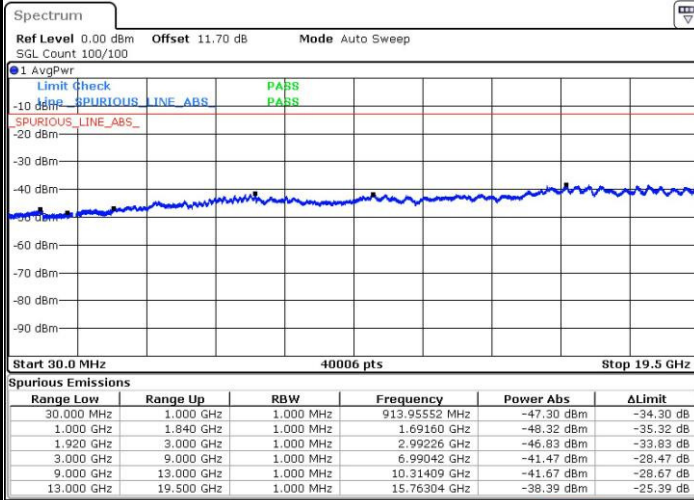


Date: 18 MAR 2017 01:07:20



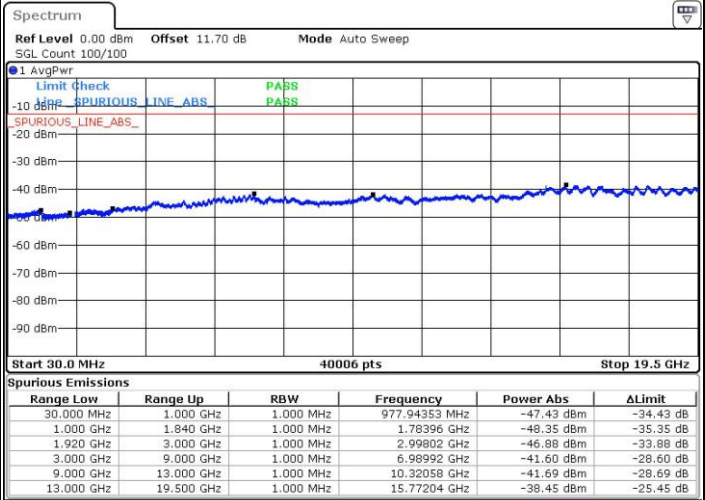
LTE Band 2 / 20MHz

Middle Channel / QPSK



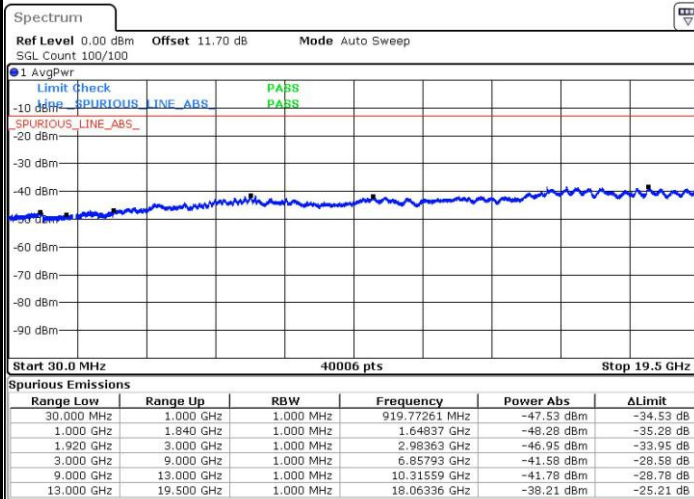
Date: 18 MAR 2017 01:08:56

Middle Channel / 16QAM



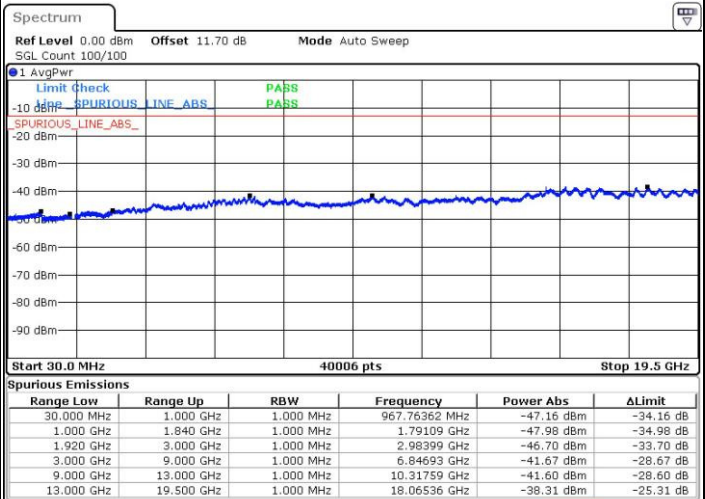
Date: 18 MAR 2017 01:09:51

Highest Channel / QPSK



Date: 18 MAR 2017 01:16:04

Highest Channel / 16QAM



Date: 18 MAR 2017 01:16:58

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	0.0070	PASS
40	Normal Voltage	0.0073	
30	Normal Voltage	0.0076	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0076	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0077	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

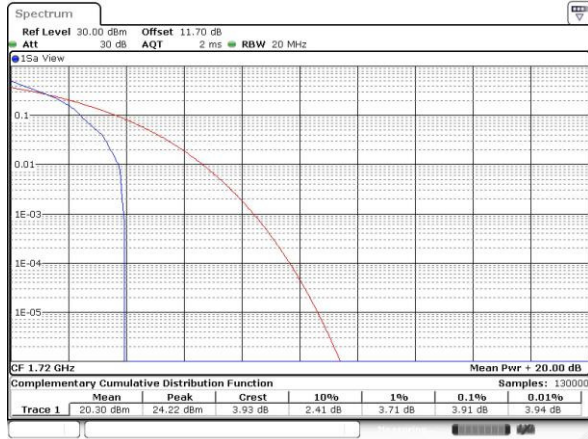
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.91	4.99	4.52	6.06	PASS
Middle CH	4.52	4.41	5.13	5.42	
Highest CH	3.19	4.46	4.03	5.45	

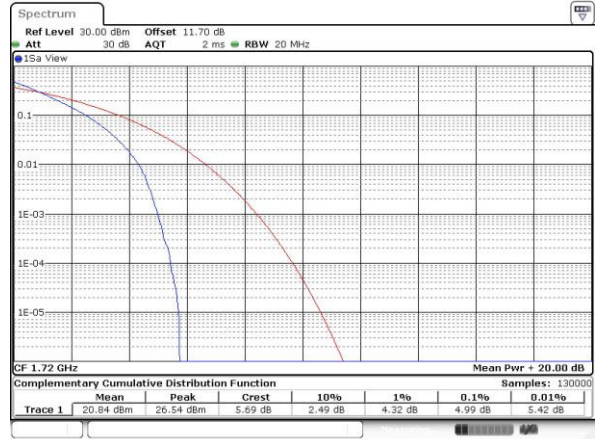


LTE Band 4 / 20MHz / QPSK

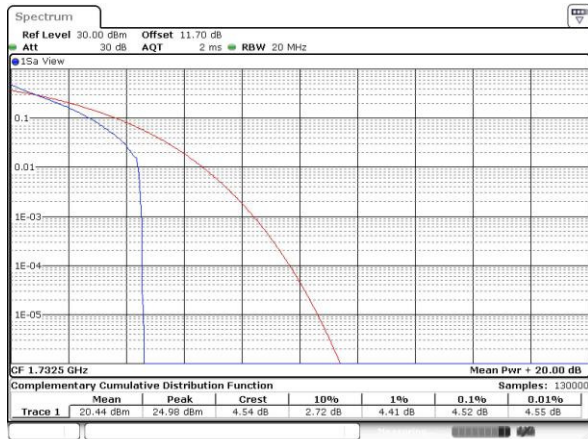
Lowest Channel / 1RB



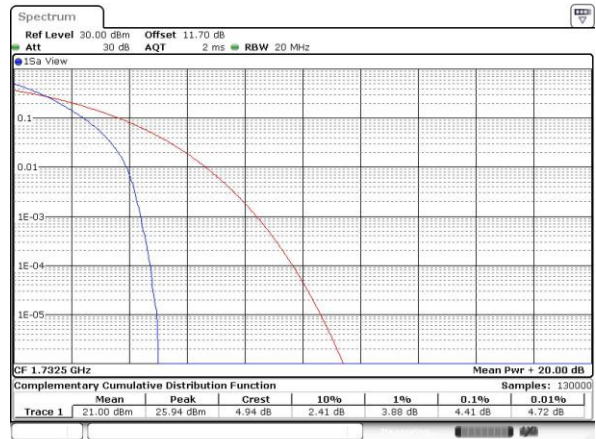
Lowest Channel / Full RB



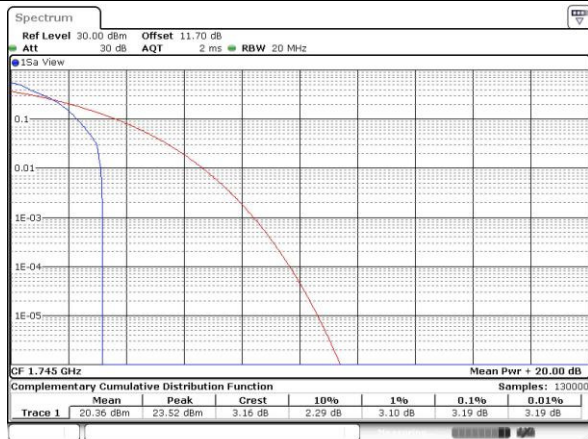
Middle Channel / 1RB



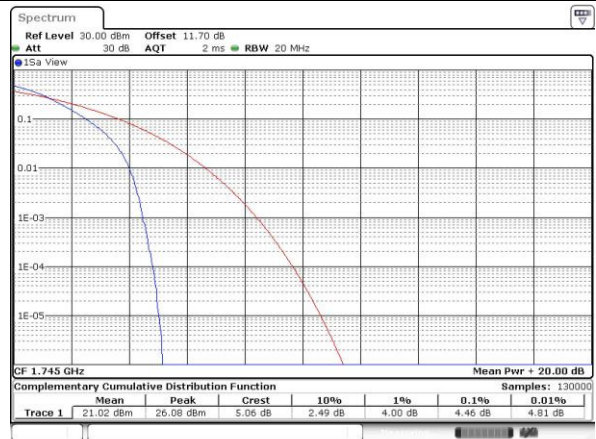
Middle Channel / Full RB

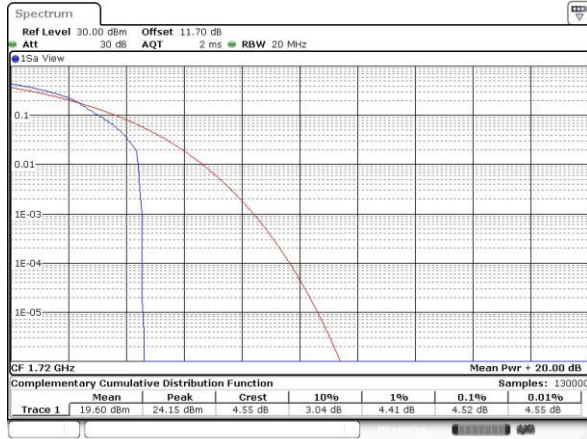


Highest Channel / 1RB

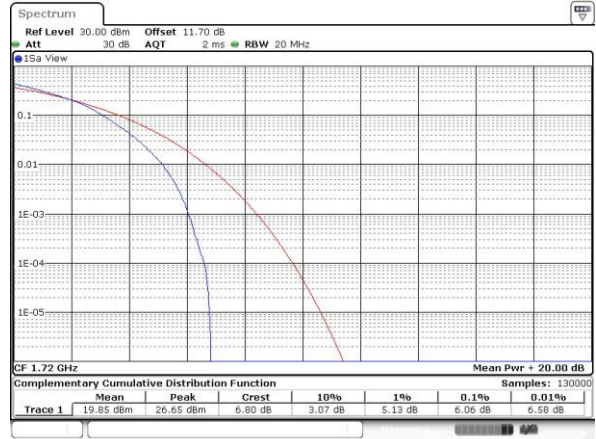


Highest Channel / Full RB

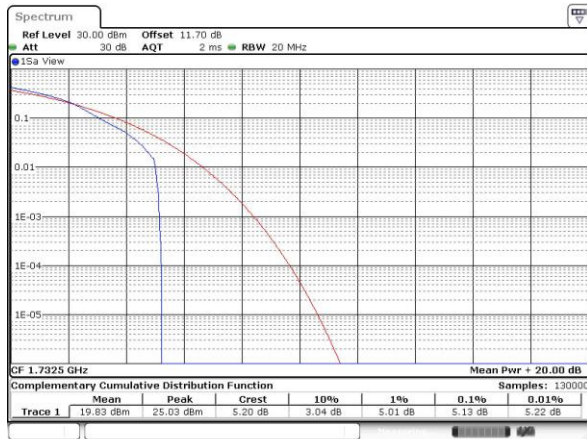


LTE Band 4 / 20MHz / 16QAM
Lowest Channel / 1RB


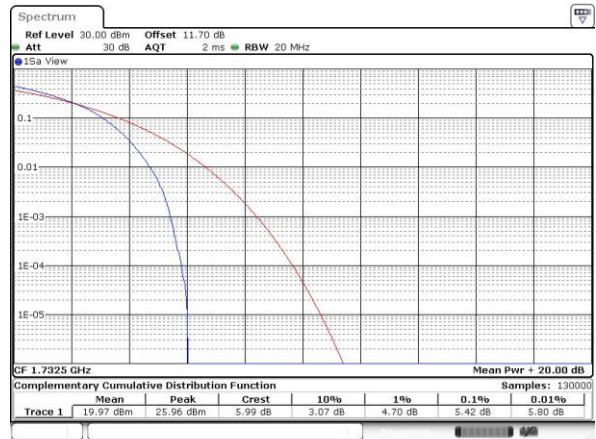
Date: 20 MAR 2017 13:56:13

Lowest Channel / Full RB


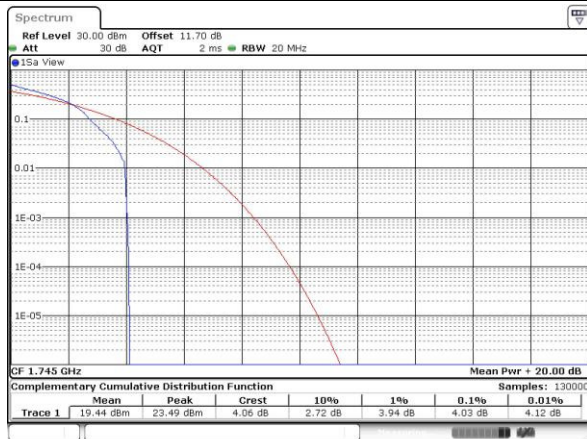
Date: 20 MAR 2017 13:57:44

Middle Channel / 1RB


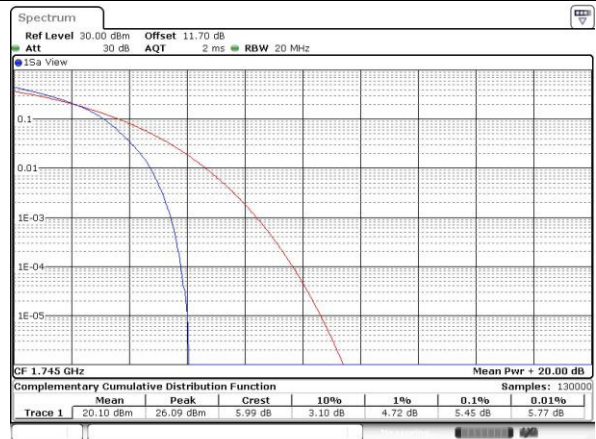
Date: 20 MAR 2017 14:00:42

Middle Channel / Full RB


Date: 20 MAR 2017 14:00:51

Highest Channel / 1RB


Date: 20 MAR 2017 14:01:01

Highest Channel / Full RB


Date: 20 MAR 2017 14:01:10

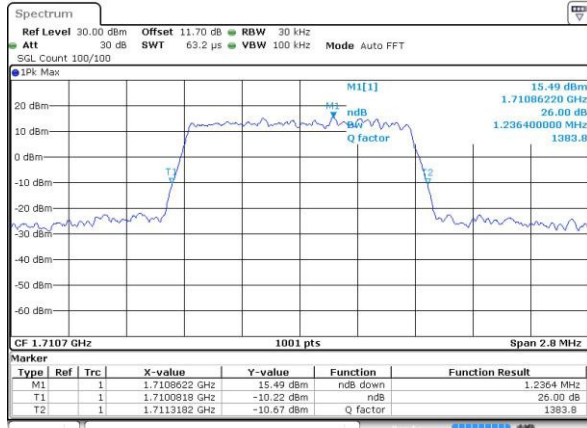
**26dB Bandwidth**

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	1.24	1.22	3.01	3.03	4.93	4.89	9.71	9.71	14.42	14.45	20.30	20.30
Middle CH	1.23	1.23	3.00	3.00	4.88	4.99	9.87	9.75	14.39	14.33	20.14	20.14
Highest CH	1.23	1.23	3.00	3.00	4.95	4.87	9.83	9.83	14.45	14.39	20.14	19.94



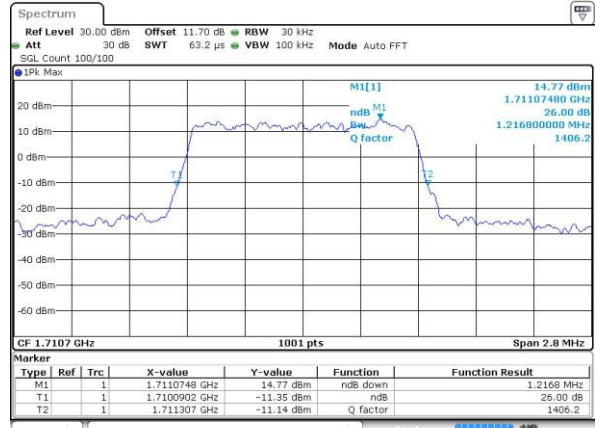
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



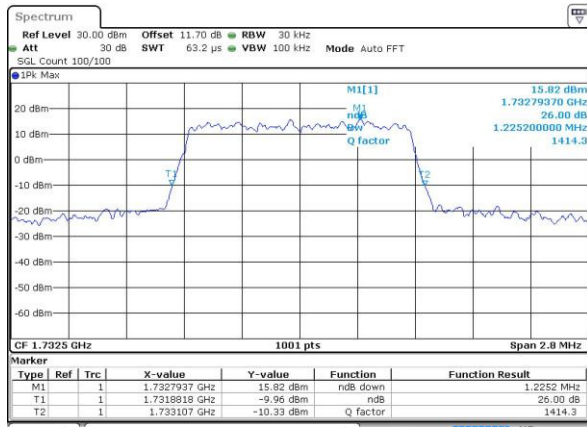
Date: 20 MAR 2017 13:37:35

Lowest Channel / 1.4MHz / 16QAM



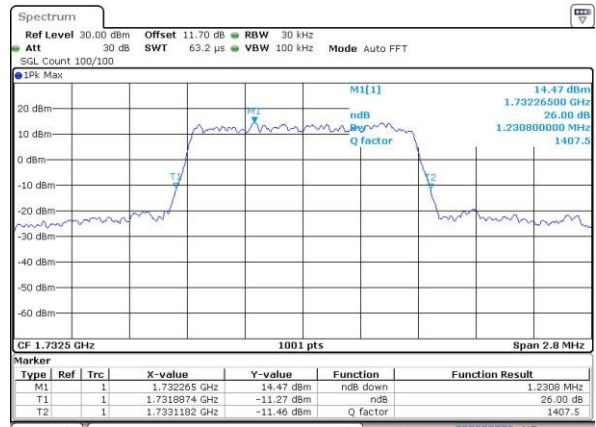
Date: 20 MAR 2017 13:37:46

Middle Channel / 1.4MHz / QPSK



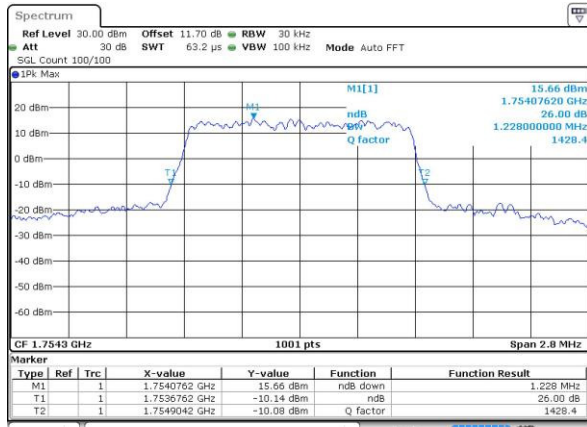
Date: 20 MAR 2017 13:44:43

Middle Channel / 1.4MHz / 16QAM



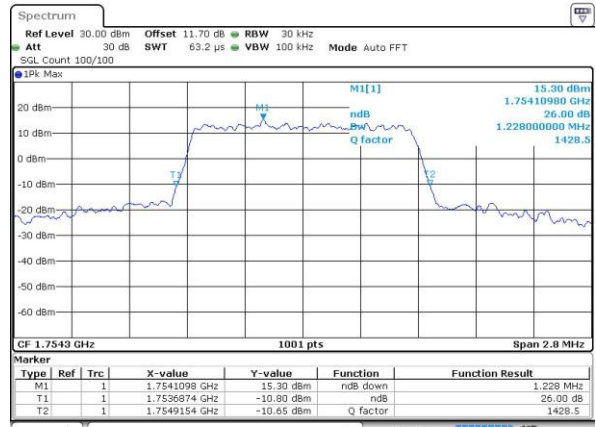
Date: 20 MAR 2017 13:44:53

Highest Channel / 1.4MHz / QPSK



Date: 20 MAR 2017 13:47:14

Highest Channel / 1.4MHz / 16QAM

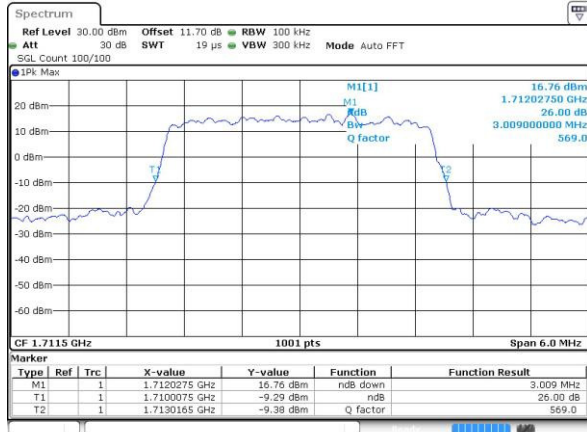


Date: 20 MAR 2017 13:47:24



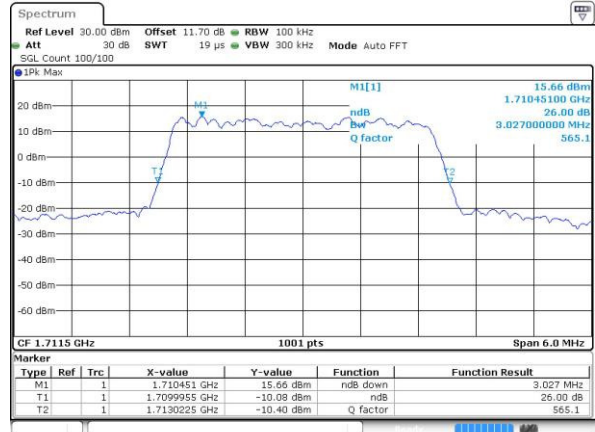
LTE Band 4

Lowest Channel / 3MHz / QPSK



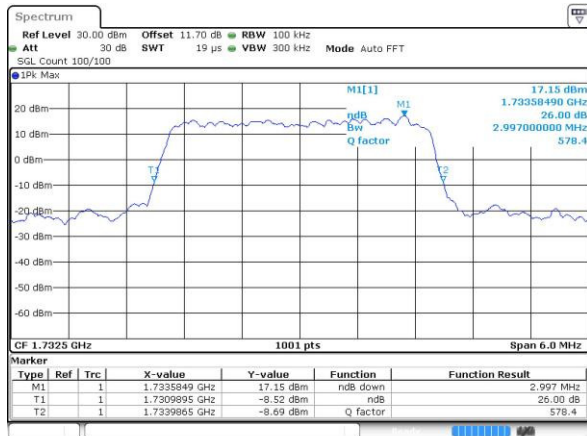
Date: 20 MAR 2017 10:45:59

Lowest Channel / 3MHz / 16QAM



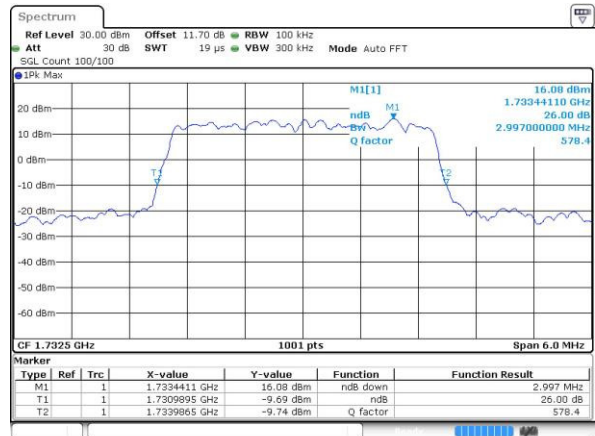
Date: 20 MAR 2017 10:46:09

Middle Channel / 3MHz / QPSK



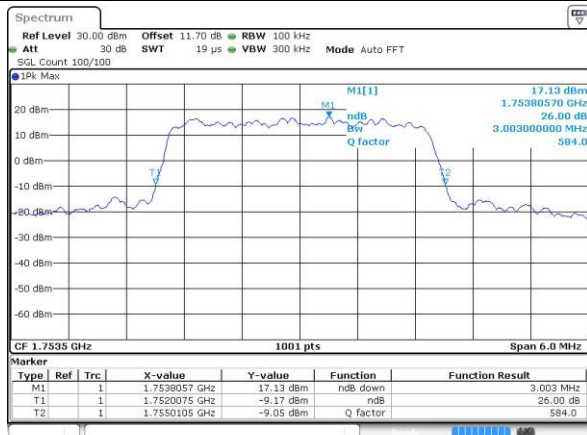
Date: 20 MAR 2017 10:53:07

Middle Channel / 3MHz / 16QAM



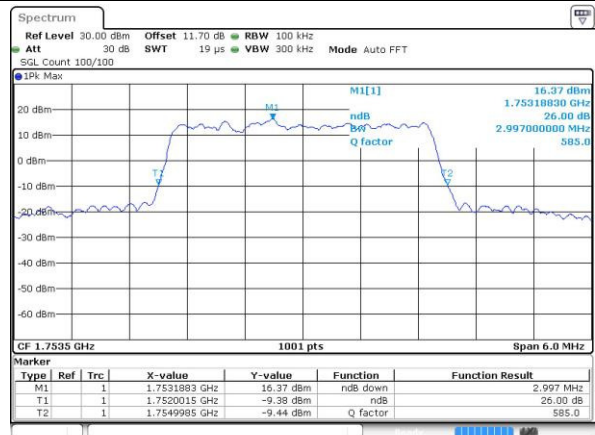
Date: 20 MAR 2017 10:53:18

Highest Channel / 3MHz / QPSK



Date: 20 MAR 2017 10:55:38

Highest Channel / 3MHz / 16QAM

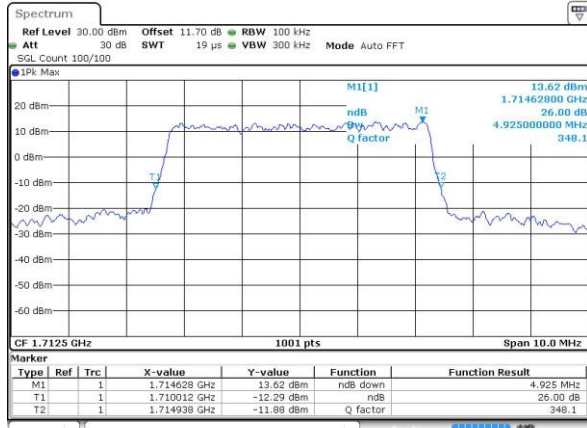


Date: 20 MAR 2017 10:55:48

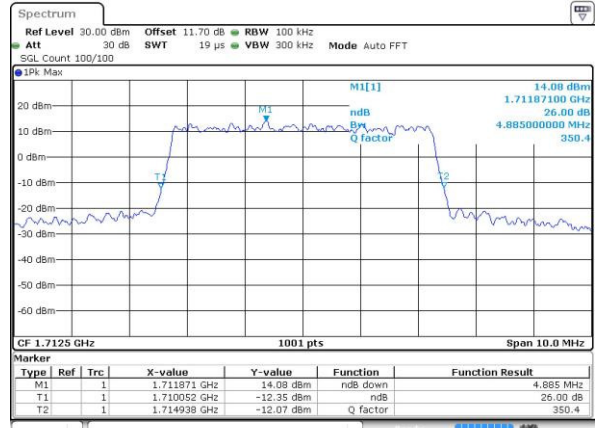


LTE Band 4

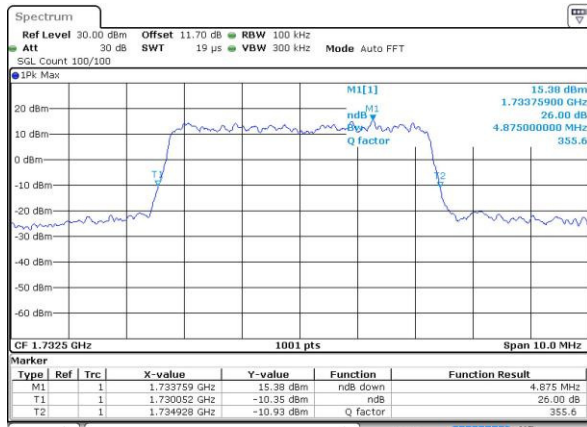
Lowest Channel / 5MHz / QPSK



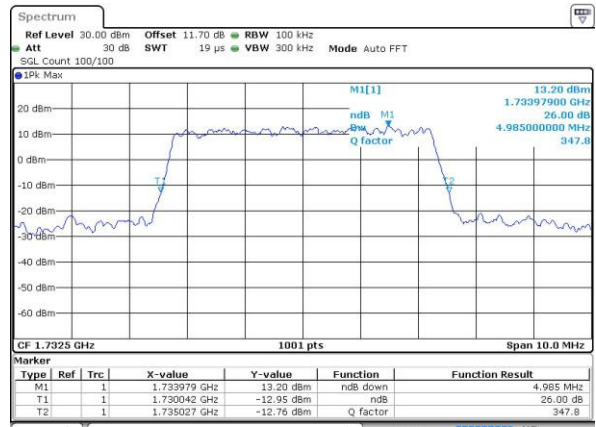
Lowest Channel / 5MHz / 16QAM



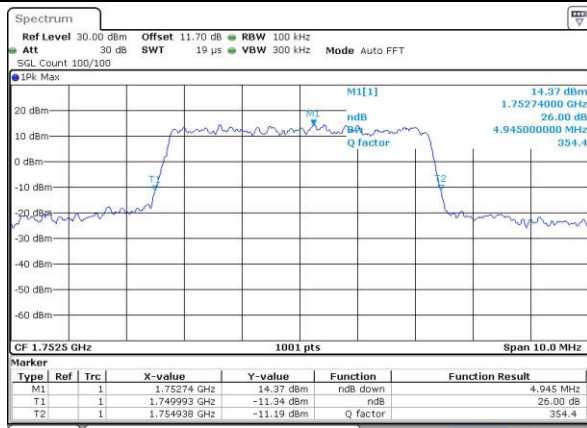
Middle Channel / 5MHz / QPSK



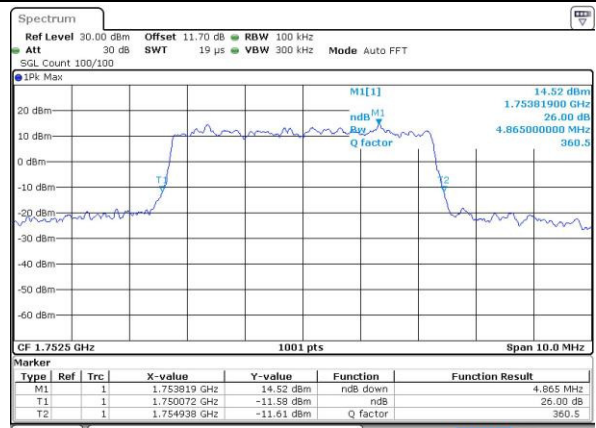
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



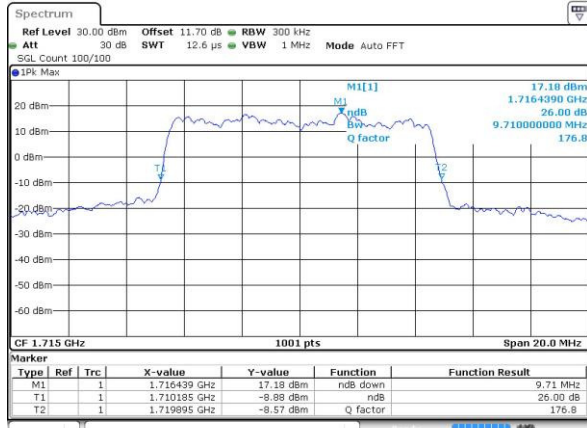
Highest Channel / 5MHz / 16QAM



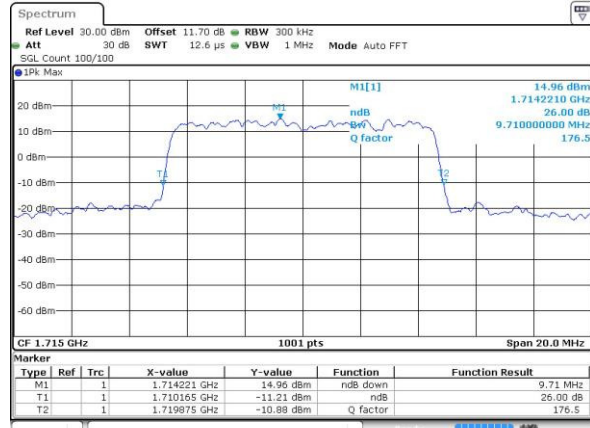


LTE Band 4

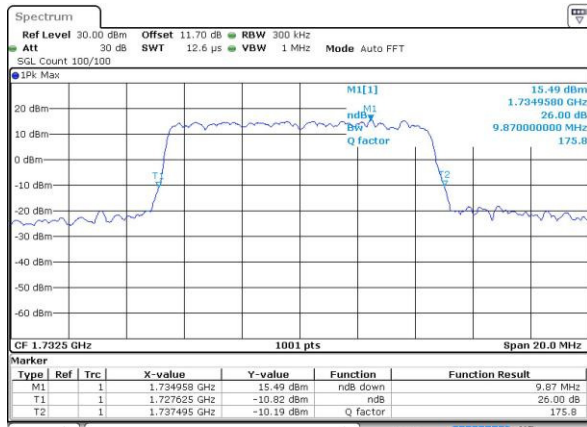
Lowest Channel / 10MHz / QPSK



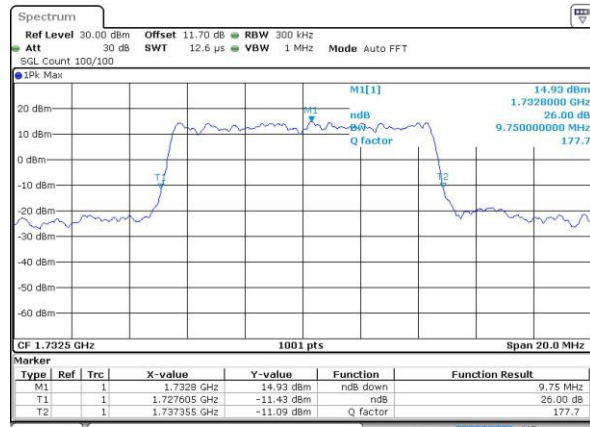
Lowest Channel / 10MHz / 16QAM



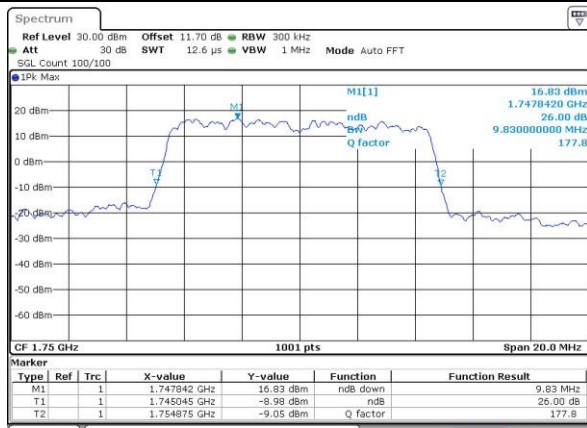
Middle Channel / 10MHz / QPSK



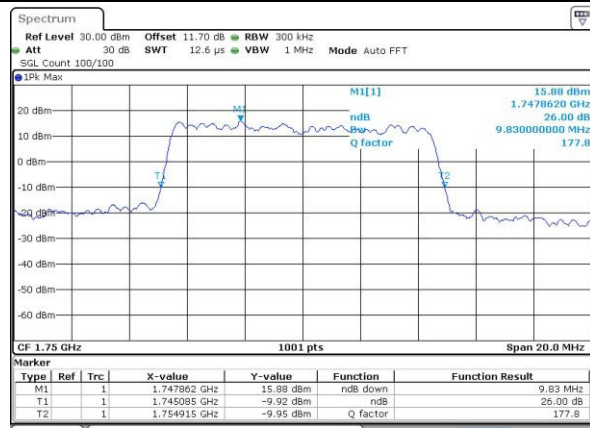
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



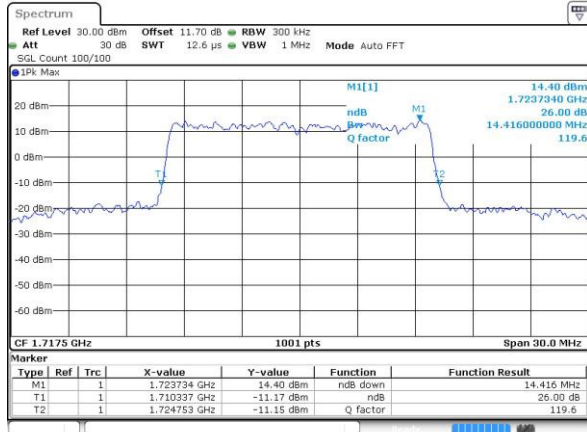
Highest Channel / 10MHz / 16QAM





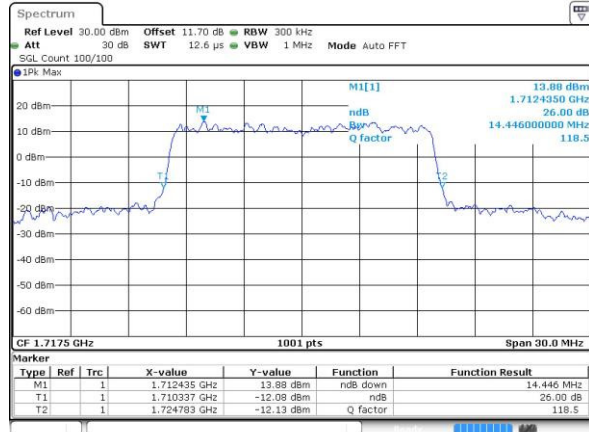
LTE Band 4

Lowest Channel / 15MHz / QPSK



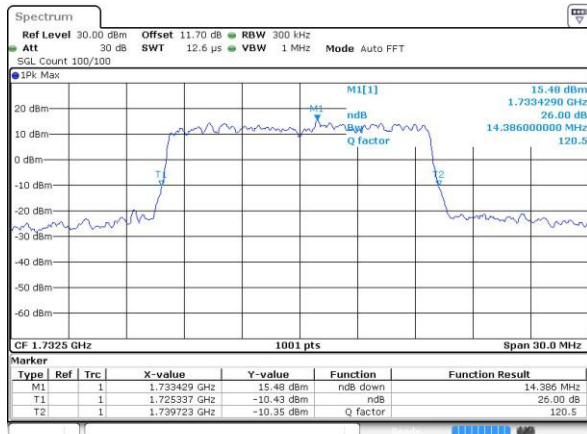
Date: 20 MAR 2017 11:36:14

Lowest Channel / 15MHz / 16QAM



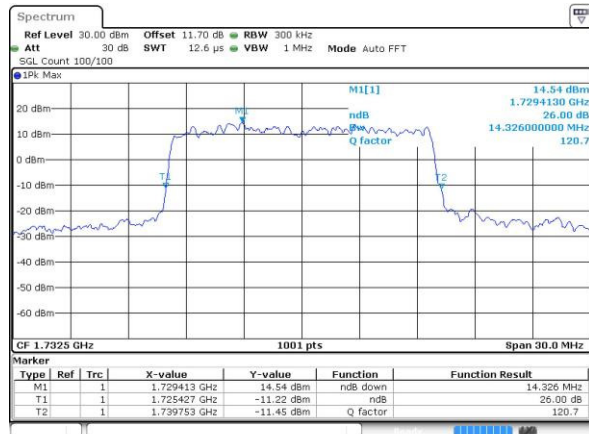
Date: 20 MAR 2017 11:36:24

Middle Channel / 15MHz / QPSK



Date: 20 MAR 2017 11:43:21

Middle Channel / 15MHz / 16QAM



Date: 20 MAR 2017 11:43:31

Highest Channel / 15MHz / QPSK



Date: 20 MAR 2017 11:45:51

Highest Channel / 15MHz / 16QAM

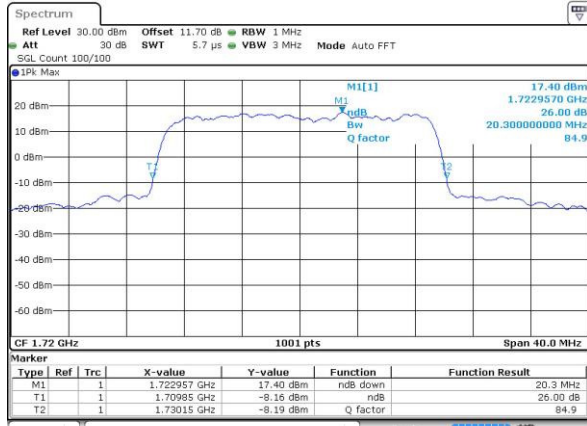


Date: 20 MAR 2017 11:46:01

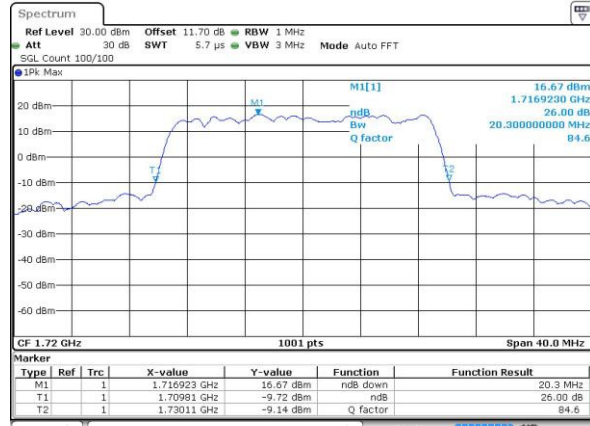


LTE Band 4

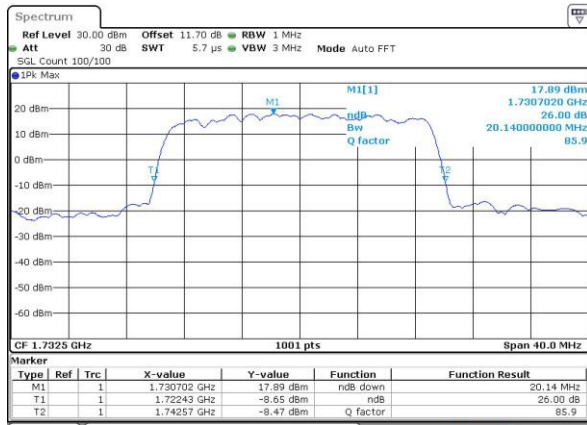
Lowest Channel / 20MHz / QPSK



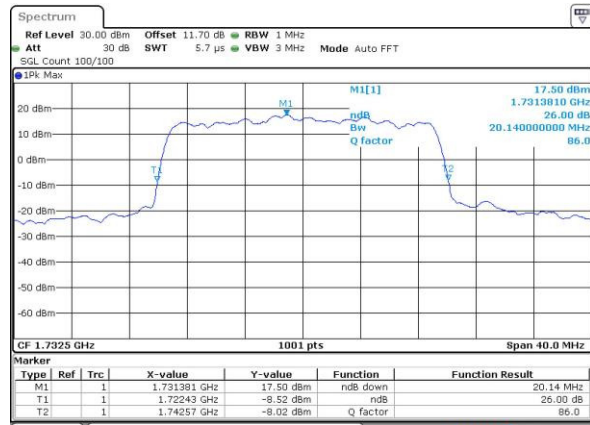
Lowest Channel / 20MHz / 16QAM



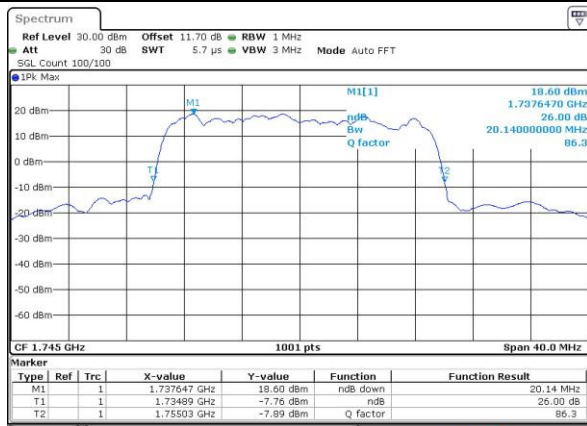
Middle Channel / 20MHz / QPSK



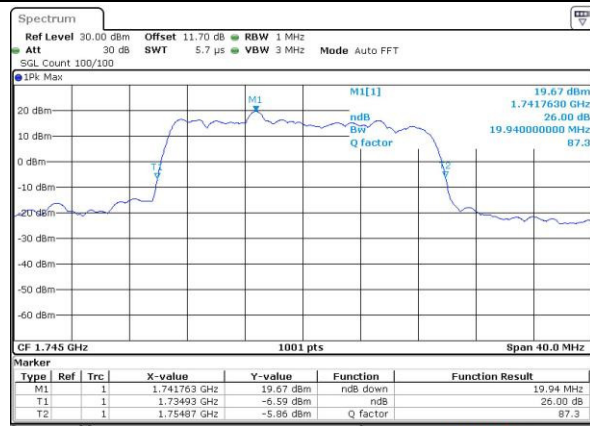
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



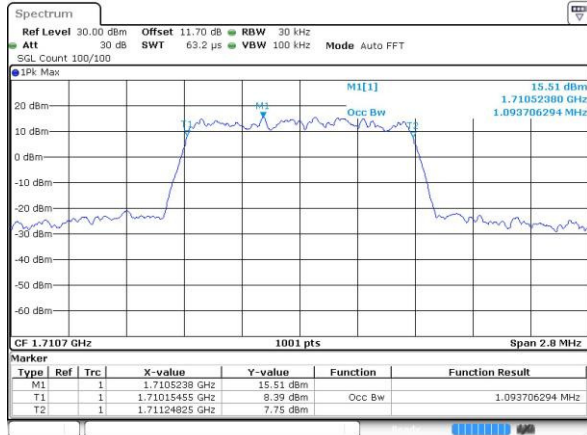
**Occupied Bandwidth**

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	1.09	1.09	2.72	2.73	4.5	4.51	9.05	9.01	13.43	13.4	18.38	18.5
Middle CH	1.1	1.09	2.73	2.72	4.5	4.49	8.97	9.03	13.49	13.4	18.3	18.26
Highest CH	1.09	1.09	2.76	2.74	4.5	4.5	9.03	9.03	13.43	13.49	18.34	18.34



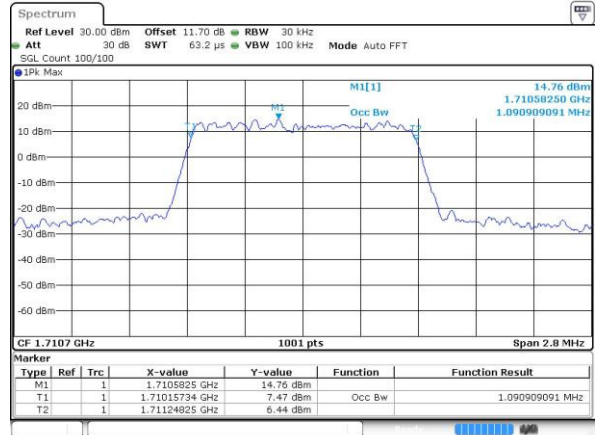
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



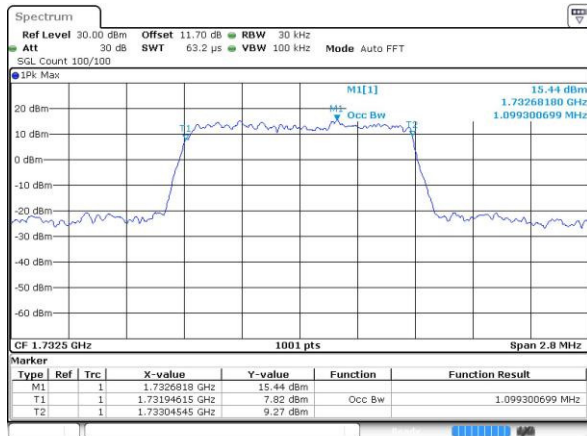
Date: 20 MAR 2017 13:37:14

Lowest Channel / 1.4MHz / 16QAM



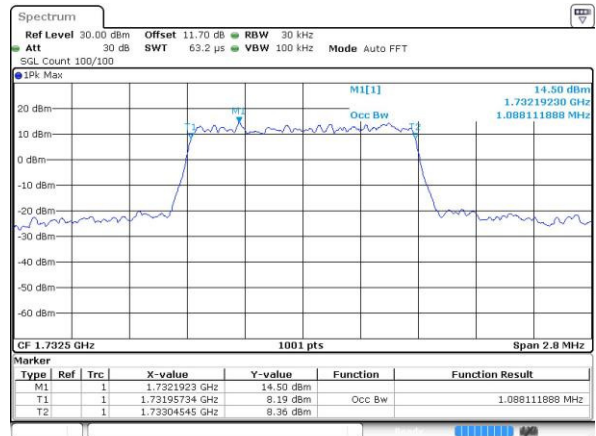
Date: 20 MAR 2017 13:37:25

Middle Channel / 1.4MHz / QPSK



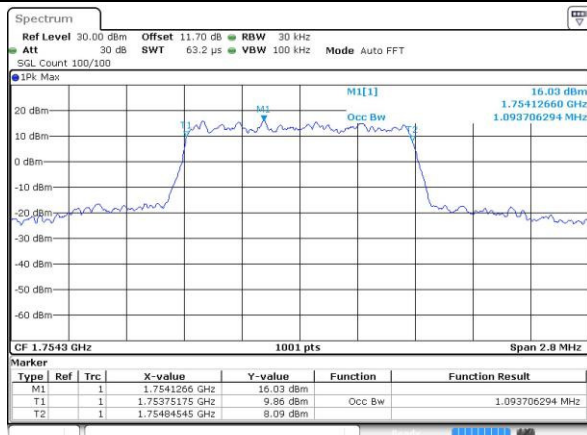
Date: 20 MAR 2017 13:44:22

Middle Channel / 1.4MHz / 16QAM



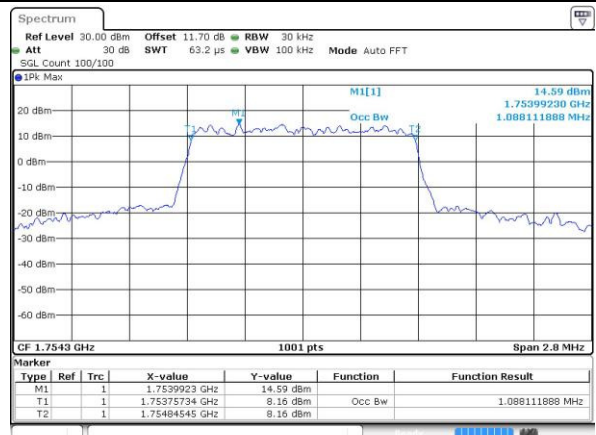
Date: 20 MAR 2017 13:44:33

Highest Channel / 1.4MHz / QPSK



Date: 20 MAR 2017 13:46:53

Highest Channel / 1.4MHz / 16QAM

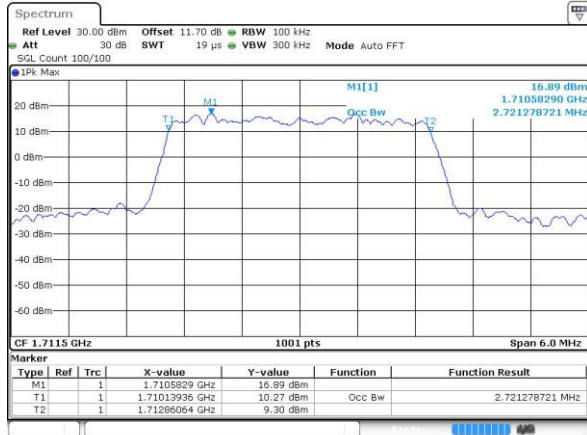


Date: 20 MAR 2017 13:47:04



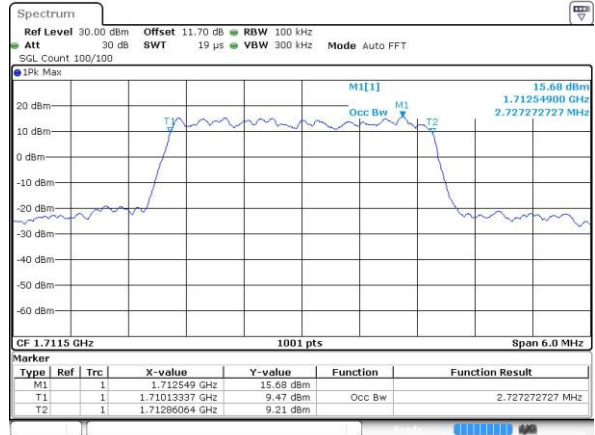
LTE Band 4

Lowest Channel / 3MHz / QPSK



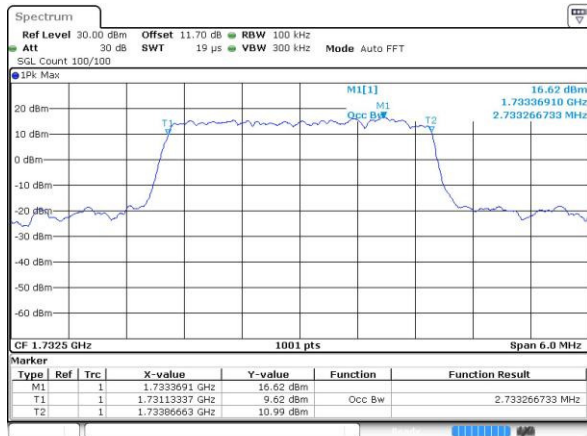
Date: 20 MAR 2017 10:45:38

Lowest Channel / 3MHz / 16QAM



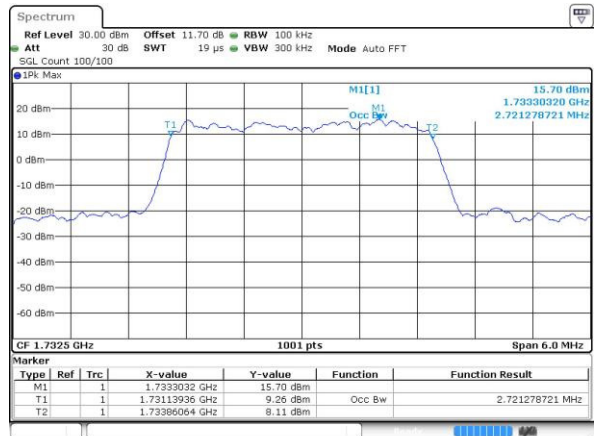
Date: 20 MAR 2017 10:45:49

Middle Channel / 3MHz / QPSK



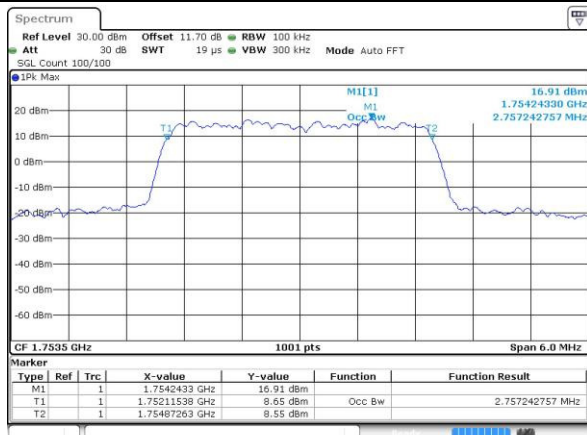
Date: 20 MAR 2017 10:52:47

Middle Channel / 3MHz / 16QAM



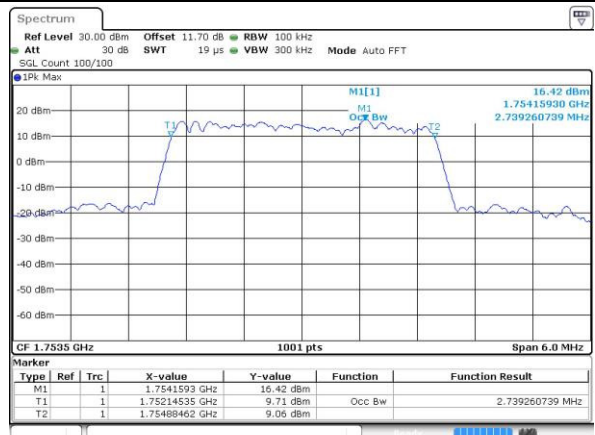
Date: 20 MAR 2017 10:52:57

Highest Channel / 3MHz / QPSK



Date: 20 MAR 2017 10:55:17

Highest Channel / 3MHz / 16QAM

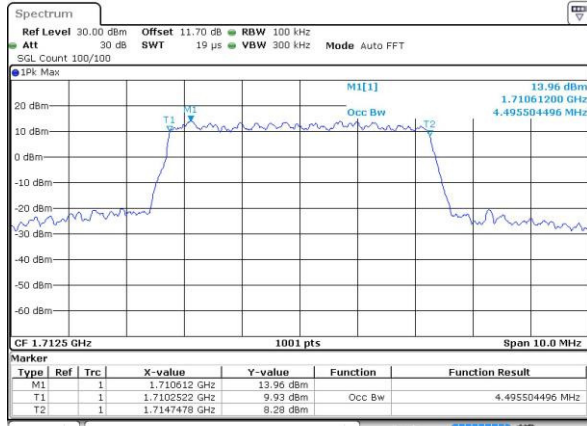


Date: 20 MAR 2017 10:55:27



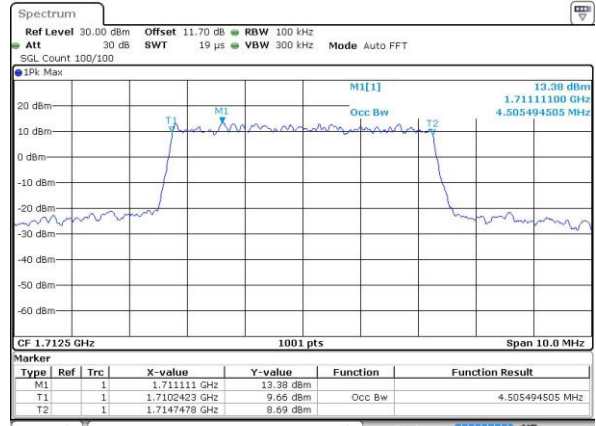
LTE Band 4

Lowest Channel / 5MHz / QPSK



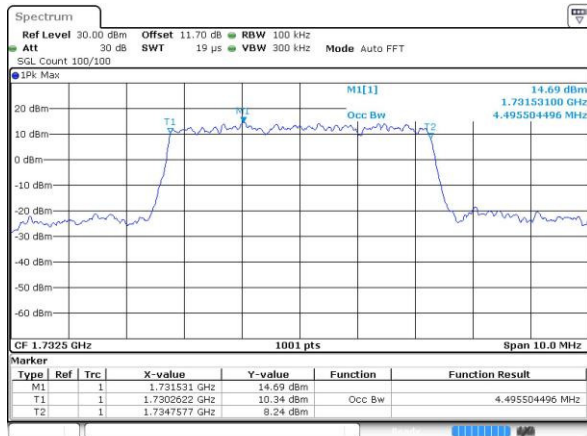
Date: 20 MAR 2017 11:02:24

Lowest Channel / 5MHz / 16QAM



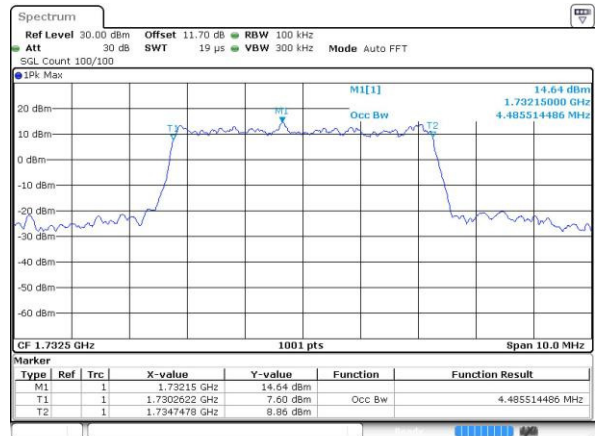
Date: 20 MAR 2017 11:02:34

Middle Channel / 5MHz / QPSK



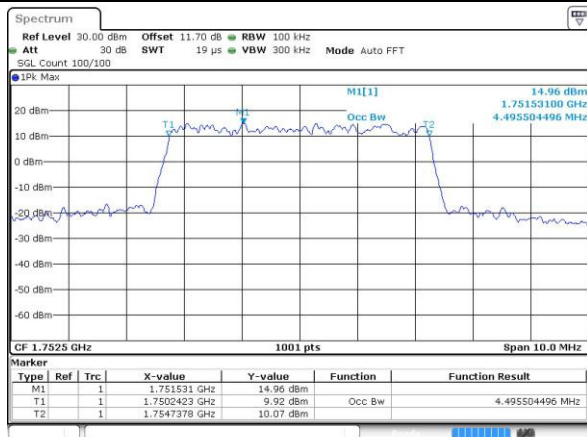
Date: 20 MAR 2017 11:09:31

Middle Channel / 5MHz / 16QAM



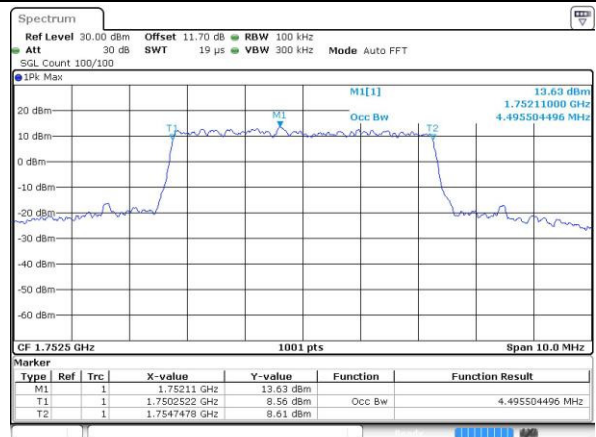
Date: 20 MAR 2017 11:09:41

Highest Channel / 5MHz / QPSK



Date: 20 MAR 2017 11:12:02

Highest Channel / 5MHz / 16QAM



Date: 20 MAR 2017 11:12:12