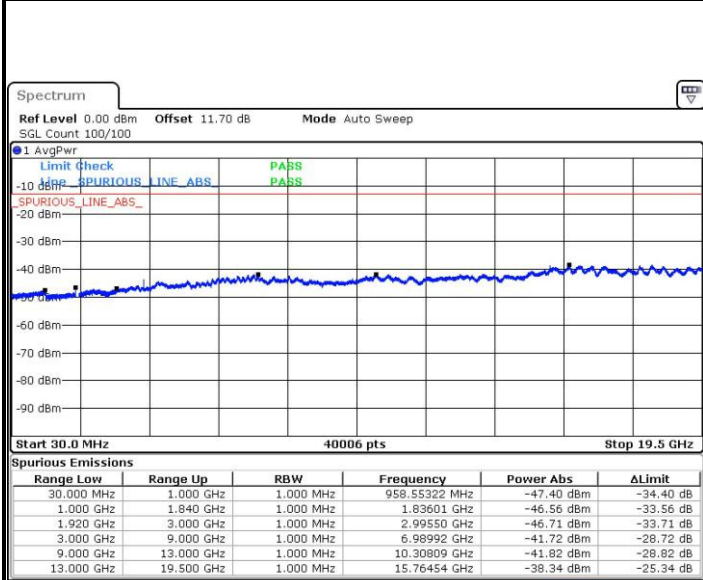




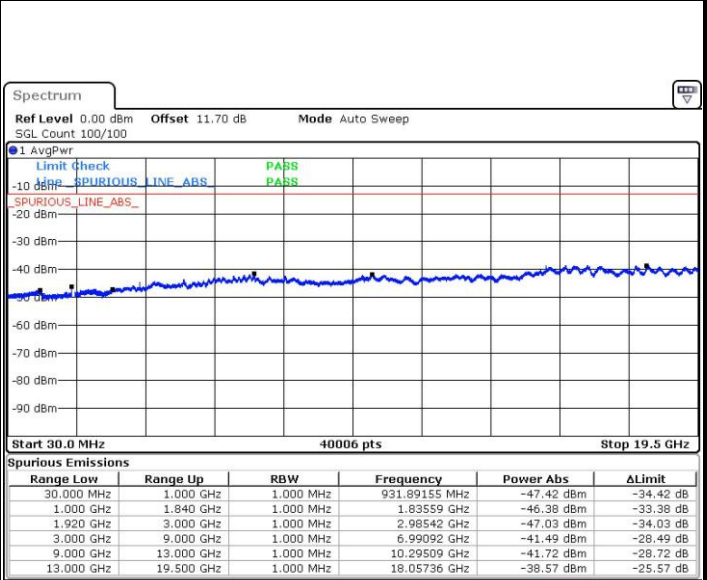
LTE Band 2 / 20MHz

Middle Channel / QPSK



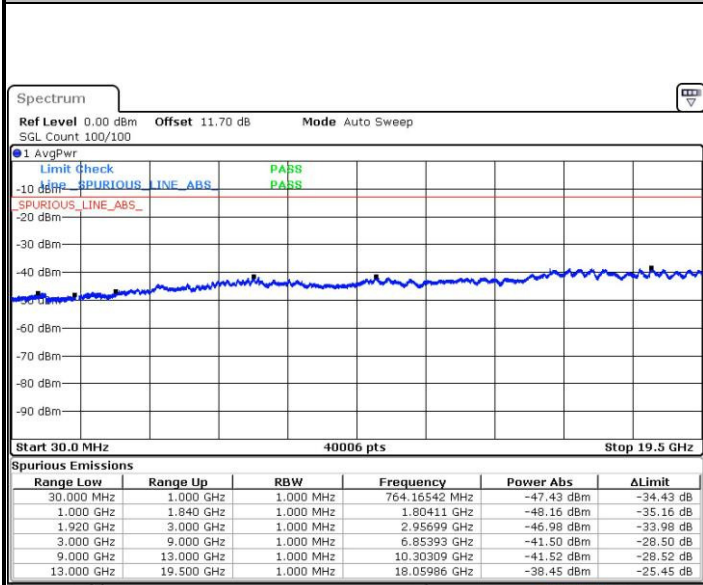
Date: 19.DEC.2016 16:49:20

Middle Channel / 16QAM



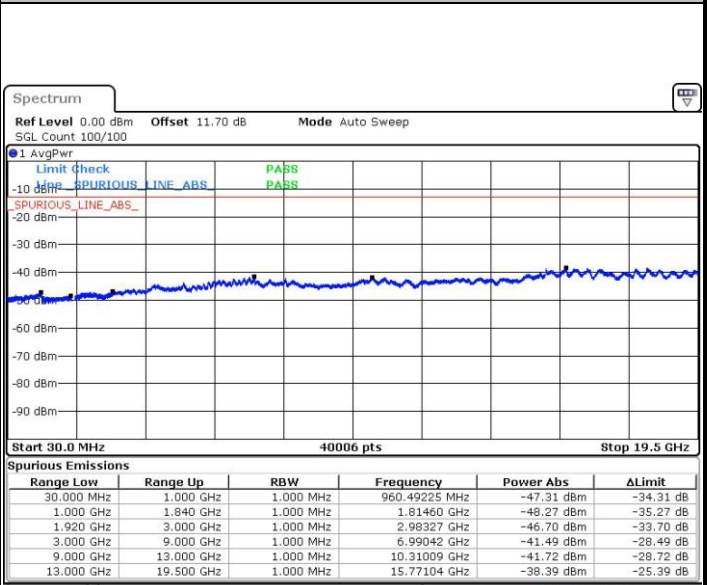
Date: 19.DEC.2016 16:50:15

Highest Channel / QPSK



Date: 19.DEC.2016 17:38:53

Highest Channel / 16QAM



Date: 19.DEC.2016 17:37:26



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	0.0082	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0076	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

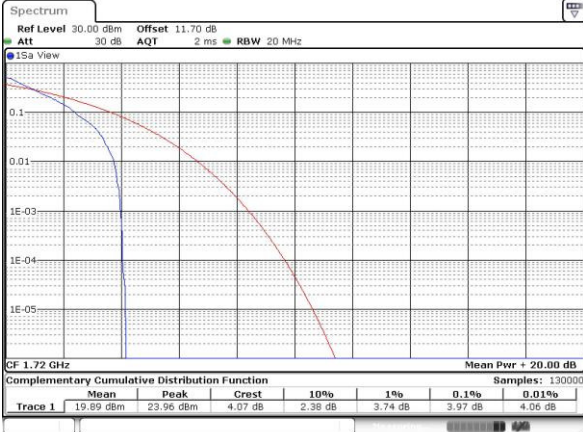
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.97	5.13	5.28	6.03	PASS
Middle CH	3.88	4.96	5.16	5.8	
Highest CH	3.65	4.9	4.64	5.8	



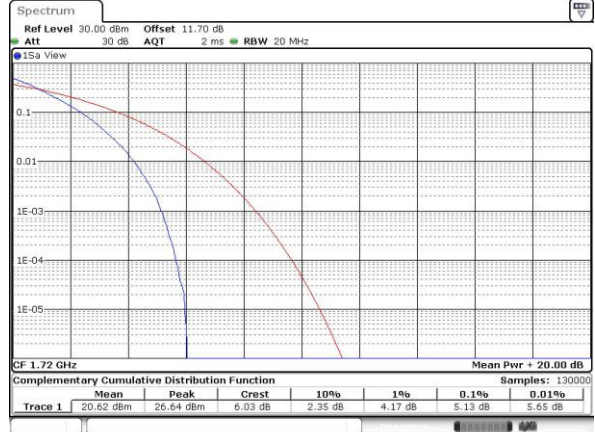
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



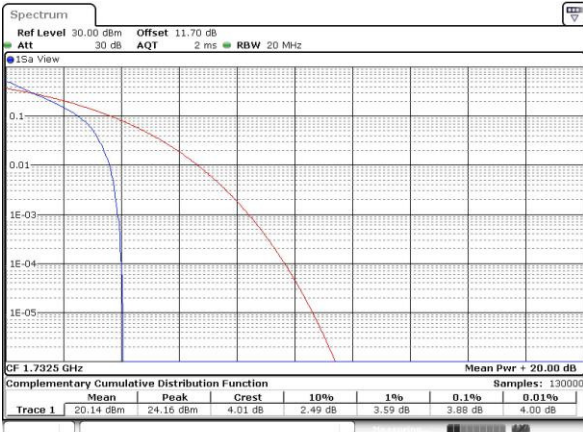
Date: 20 DEC 2016 15:10:04

Lowest Channel / Full RB



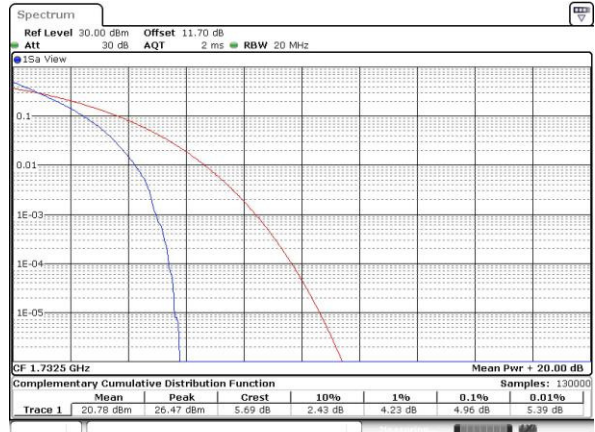
Date: 20 DEC 2016 15:10:15

Middle Channel / 1RB



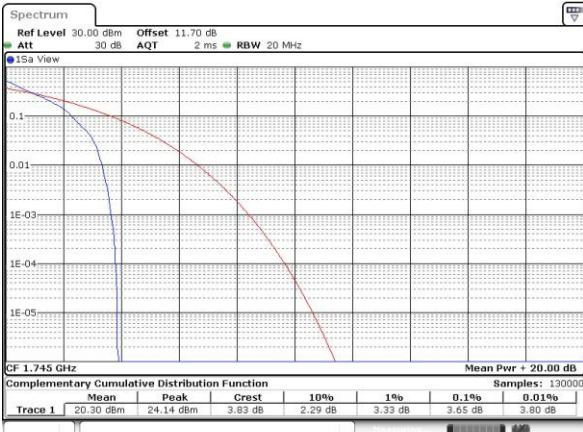
Date: 20 DEC 2016 15:10:28

Middle Channel / Full RB



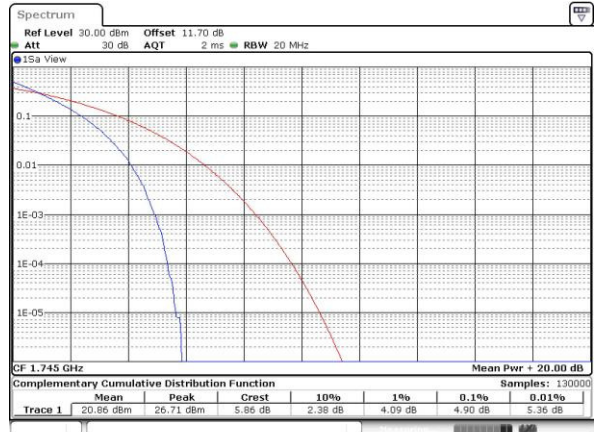
Date: 20 DEC 2016 15:10:36

Highest Channel / 1RB



Date: 20 DEC 2016 15:10:48

Highest Channel / Full RB

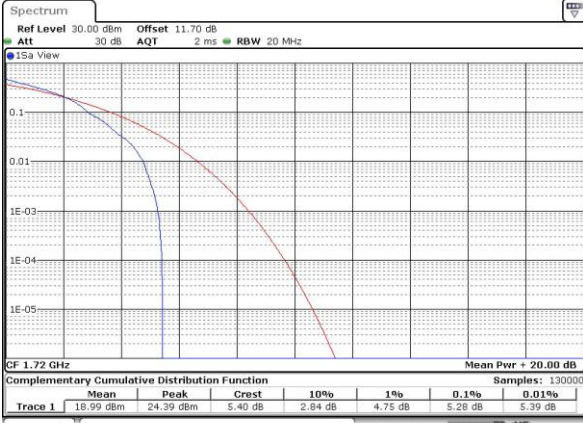


Date: 20 DEC 2016 15:11:01



LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



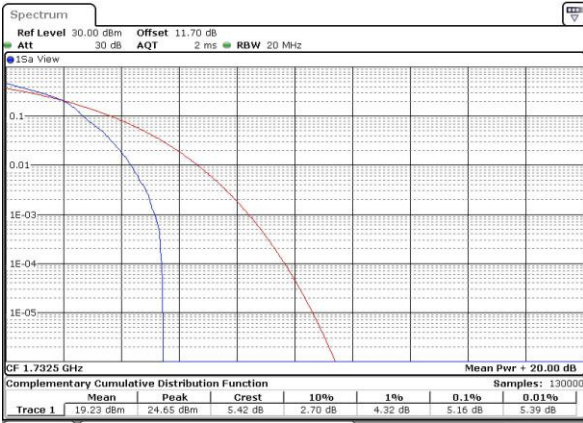
Date: 20 DEC 2016 15:09:05

Lowest Channel / Full RB



Date: 20 DEC 2016 15:09:15

Middle Channel / 1RB



Date: 20 DEC 2016 15:09:25

Middle Channel / Full RB



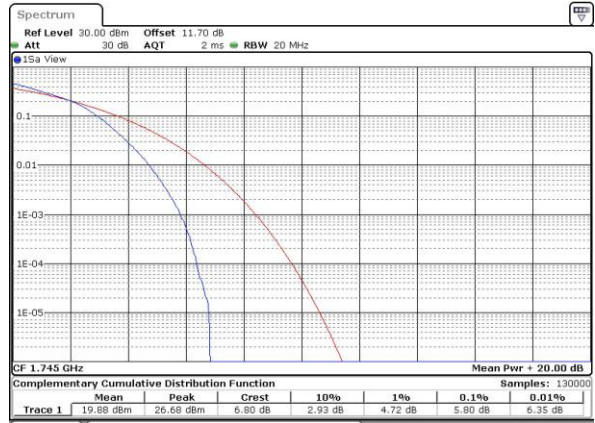
Date: 20 DEC 2016 15:09:36

Highest Channel / 1RB



Date: 20 DEC 2016 15:09:45

Highest Channel / Full RB



Date: 20 DEC 2016 15:09:55



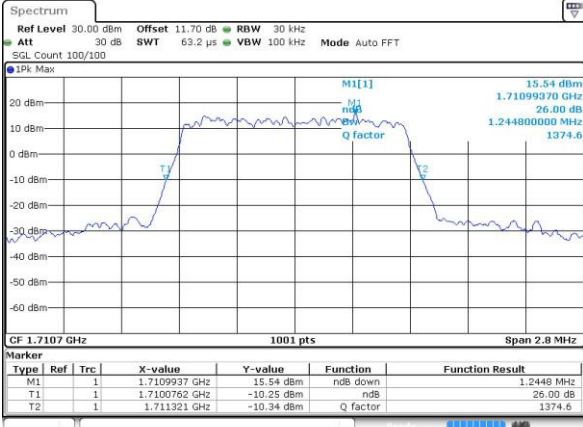
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.25	1.27	2.93	3.00	4.97	4.94	9.79	9.89	14.54	14.54	20.10	20.46
Middle CH	1.25	1.27	3.02	3.03	4.89	4.95	10.03	9.83	14.54	14.75	20.10	20.22
Highest CH	1.27	1.24	3.01	2.95	4.90	5.00	9.91	9.77	14.69	14.33	20.22	20.30



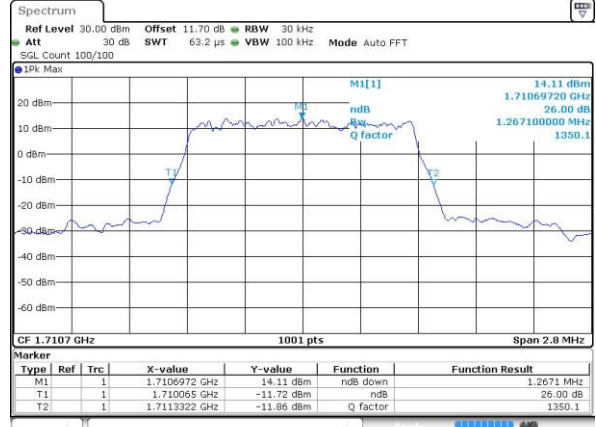
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



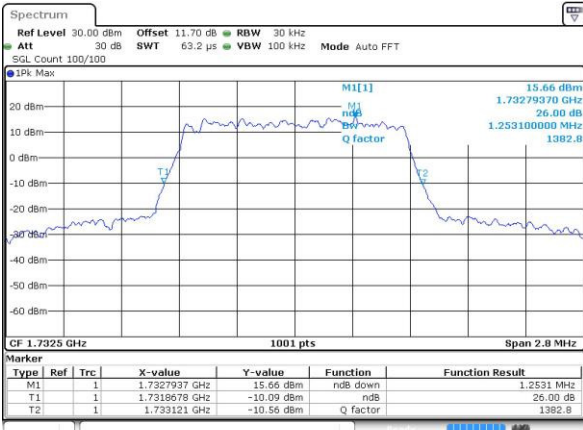
Date: 20 DEC 2016 14:52:38

Lowest Channel / 1.4MHz / 16QAM



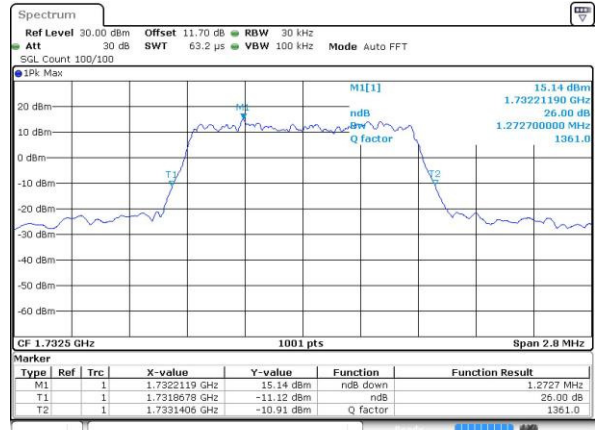
Date: 20 DEC 2016 14:52:48

Middle Channel / 1.4MHz / QPSK



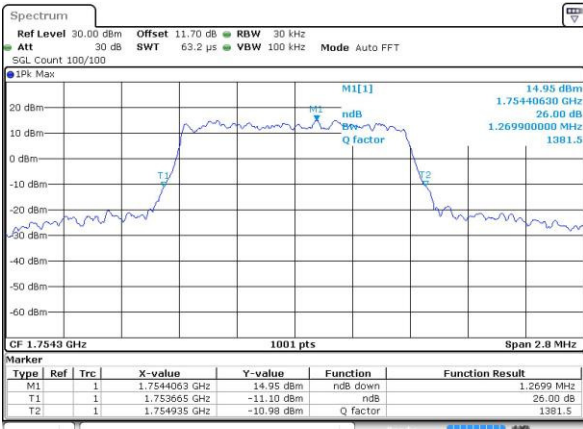
Date: 20 DEC 2016 14:59:44

Middle Channel / 1.4MHz / 16QAM



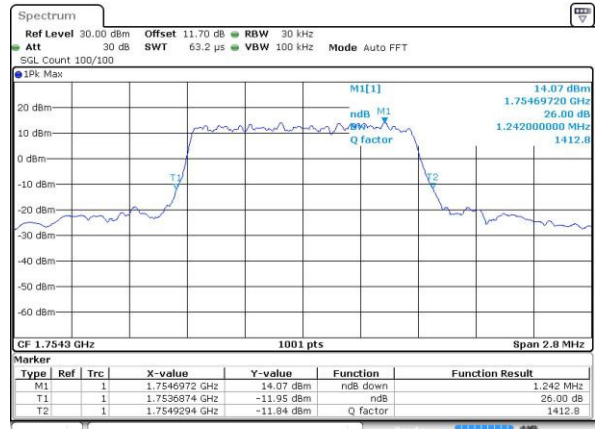
Date: 20 DEC 2016 14:59:54

Highest Channel / 1.4MHz / QPSK



Date: 20 DEC 2016 15:02:14

Highest Channel / 1.4MHz / 16QAM

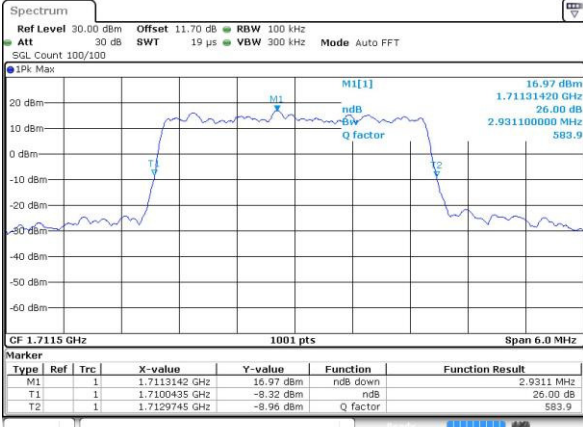


Date: 20 DEC 2016 15:02:24



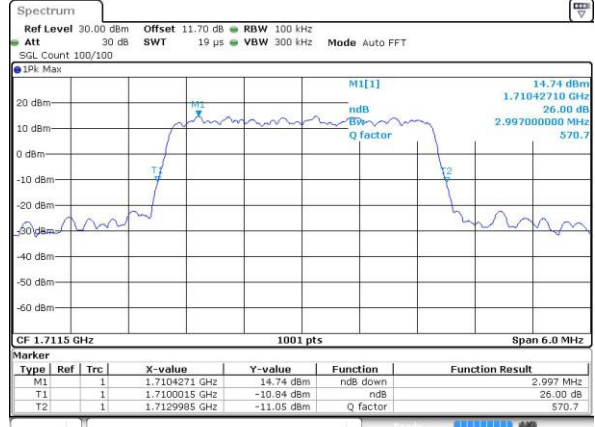
LTE Band 4

Lowest Channel / 3MHz / QPSK



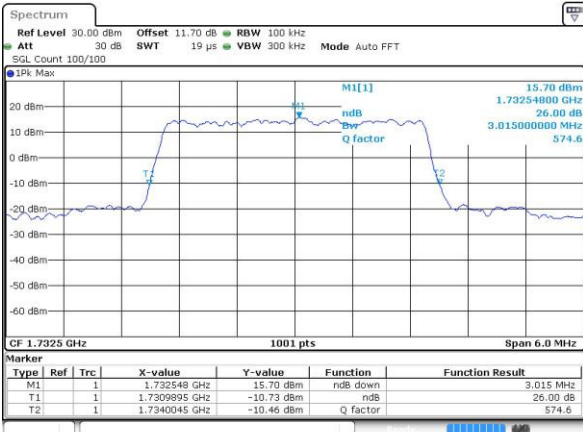
Date: 19 DEC 2016 18:07:56

Lowest Channel / 3MHz / 16QAM



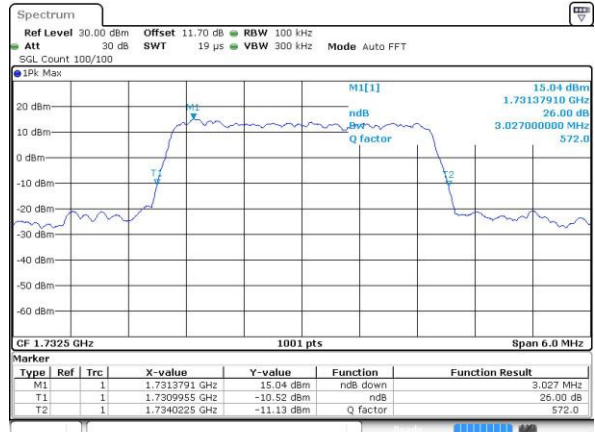
Date: 19 DEC 2016 18:08:07

Middle Channel / 3MHz / QPSK



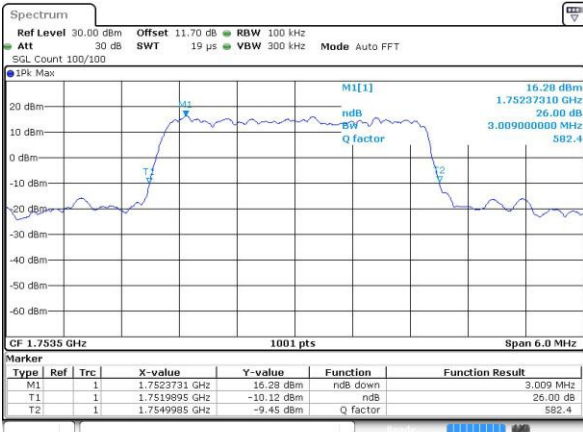
Date: 19 DEC 2016 18:15:03

Middle Channel / 3MHz / 16QAM



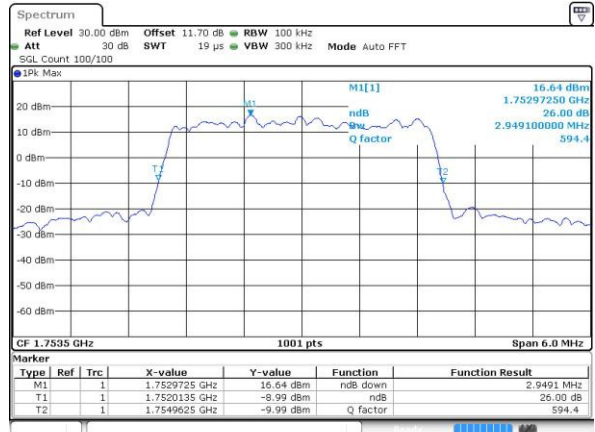
Date: 19 DEC 2016 18:15:14

Highest Channel / 3MHz / QPSK



Date: 19 DEC 2016 18:17:34

Highest Channel / 3MHz / 16QAM

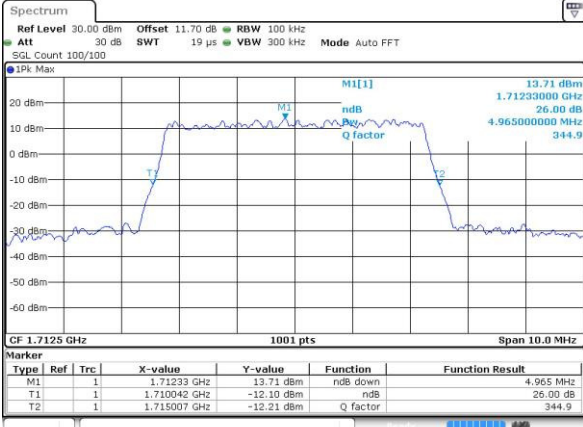


Date: 19 DEC 2016 18:17:44



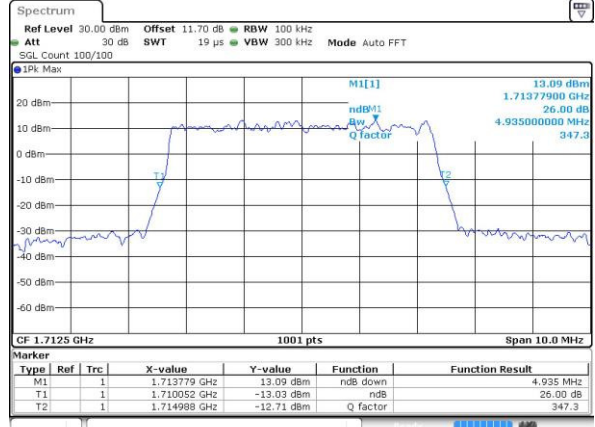
LTE Band 4

Lowest Channel / 5MHz / QPSK



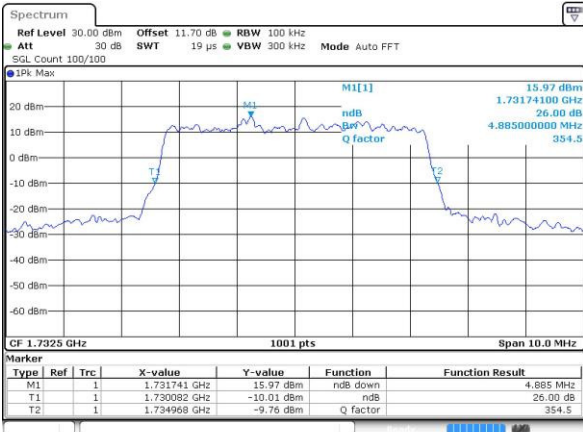
Date: 19 DEC 2016 18:24:41

Lowest Channel / 5MHz / 16QAM



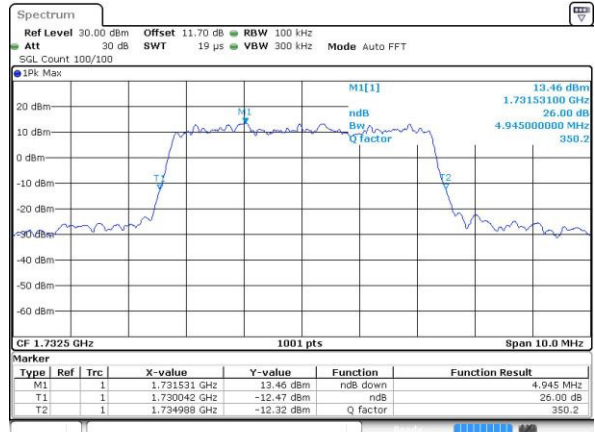
Date: 19 DEC 2016 18:24:51

Middle Channel / 5MHz / QPSK



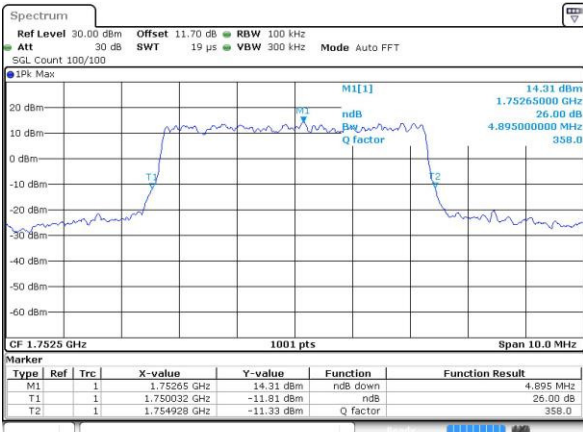
Date: 19 DEC 2016 18:31:48

Middle Channel / 5MHz / 16QAM



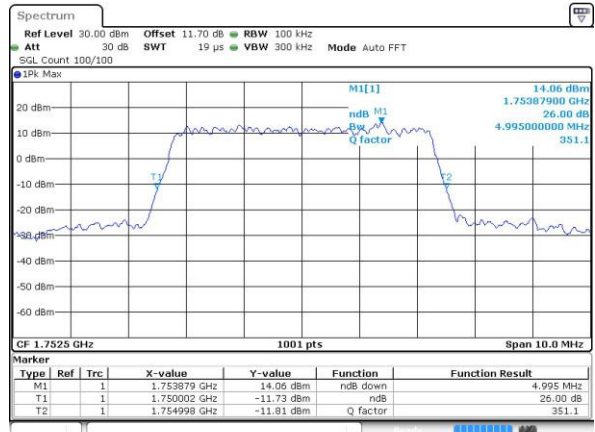
Date: 19 DEC 2016 18:31:58

Highest Channel / 5MHz / QPSK



Date: 19 DEC 2016 18:34:18

Highest Channel / 5MHz / 16QAM

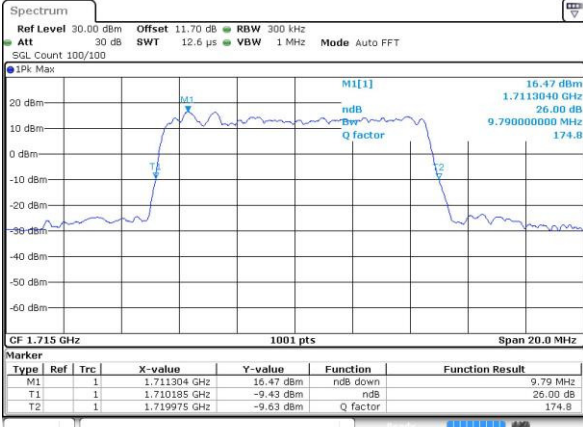


Date: 19 DEC 2016 18:34:28



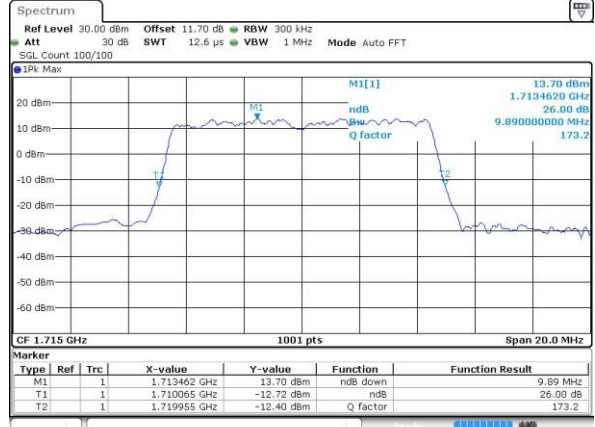
LTE Band 4

Lowest Channel / 10MHz / QPSK



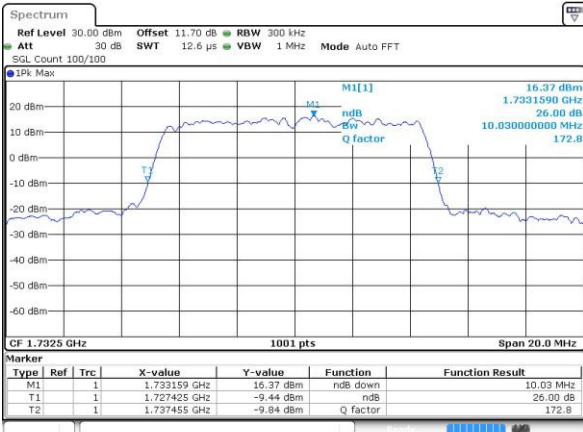
Date: 19 DEC 2016 18:41:24

Lowest Channel / 10MHz / 16QAM



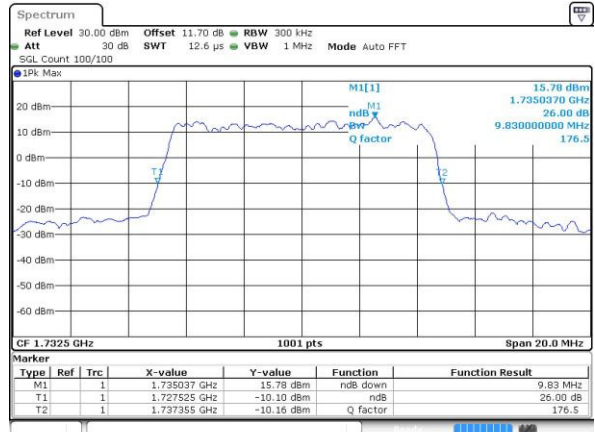
Date: 19 DEC 2016 18:41:35

Middle Channel / 10MHz / QPSK



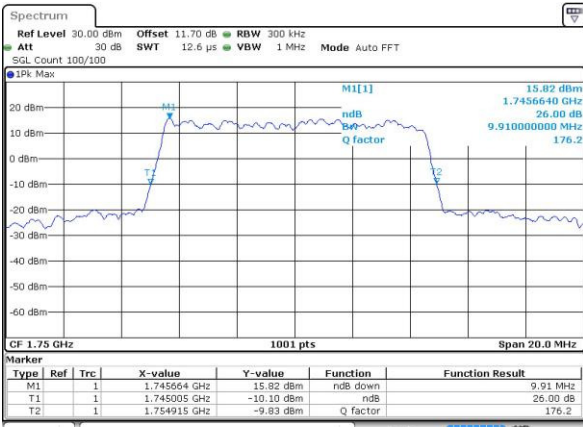
Date: 19 DEC 2016 18:48:31

Middle Channel / 10MHz / 16QAM



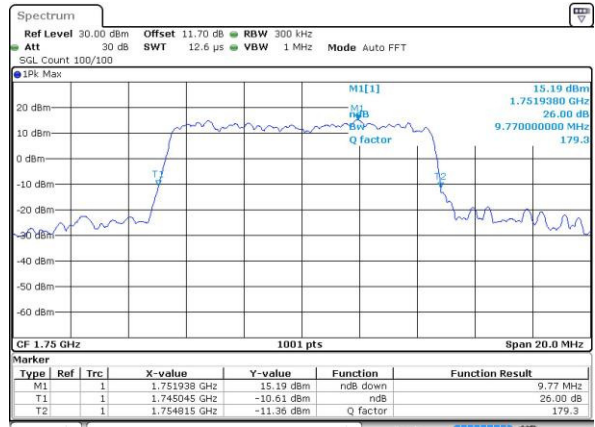
Date: 19 DEC 2016 18:48:41

Highest Channel / 10MHz / QPSK



Date: 19 DEC 2016 19:07:00

Highest Channel / 10MHz / 16QAM

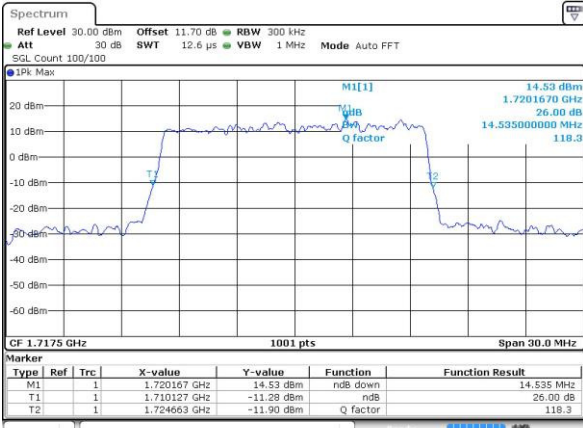


Date: 19 DEC 2016 19:07:10



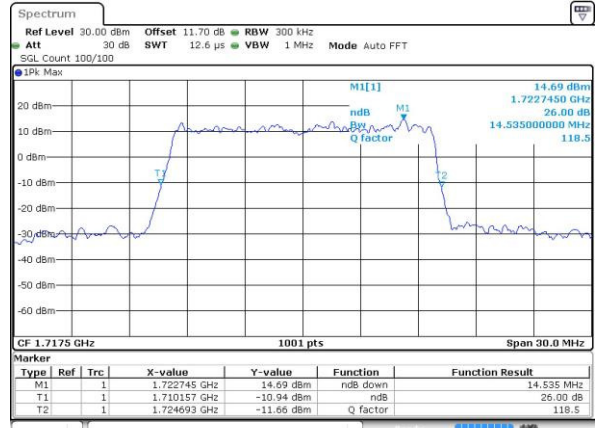
LTE Band 4

Lowest Channel / 15MHz / QPSK



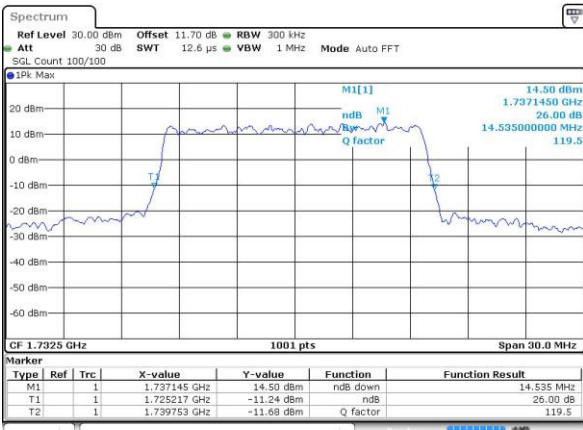
Date: 20 DEC 2016 14:18:52

Lowest Channel / 15MHz / 16QAM



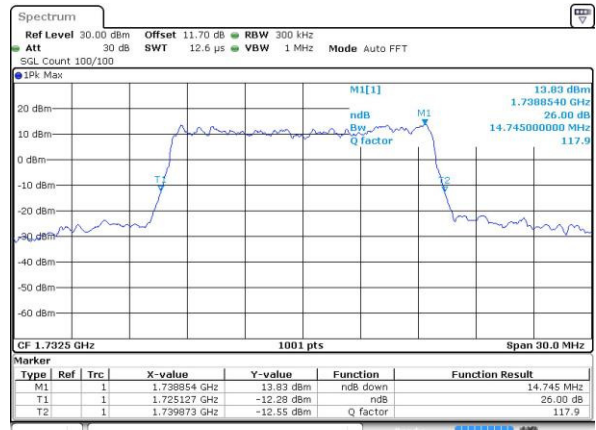
Date: 20 DEC 2016 14:19:02

Middle Channel / 15MHz / QPSK



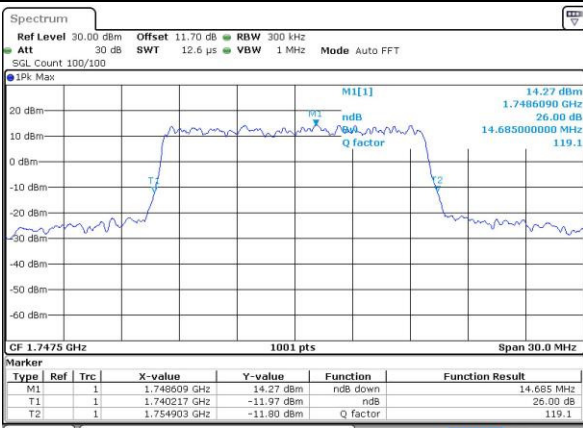
Date: 20 DEC 2016 14:26:18

Middle Channel / 15MHz / 16QAM



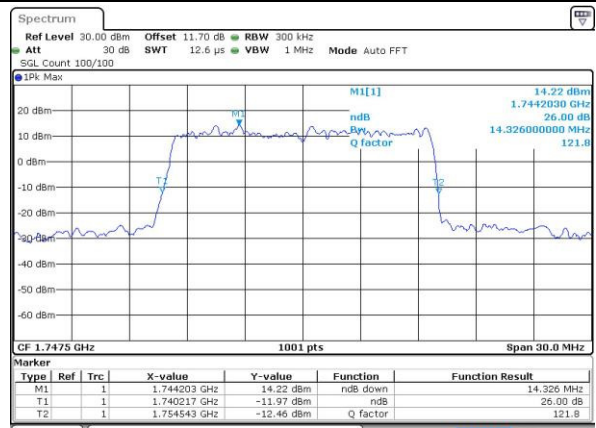
Date: 20 DEC 2016 14:26:28

Highest Channel / 15MHz / QPSK



Date: 20 DEC 2016 14:28:48

Highest Channel / 15MHz / 16QAM

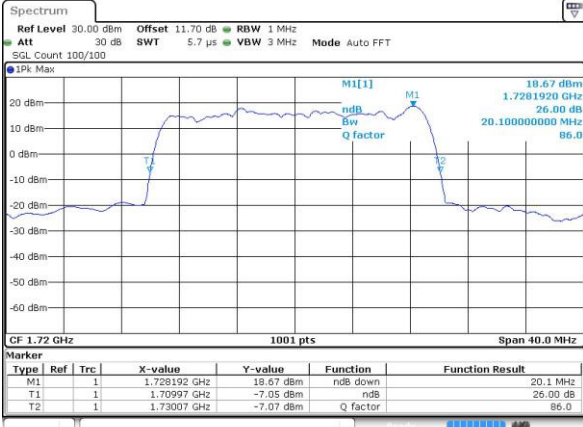


Date: 20 DEC 2016 14:28:59



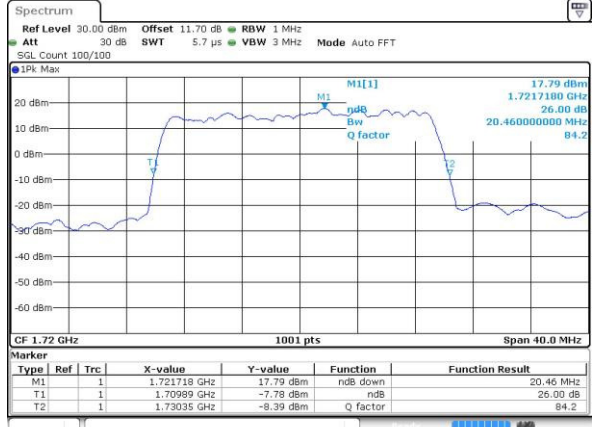
LTE Band 4

Lowest Channel / 20MHz / QPSK



Date: 20 DEC 2016 14:35:55

Lowest Channel / 20MHz / 16QAM



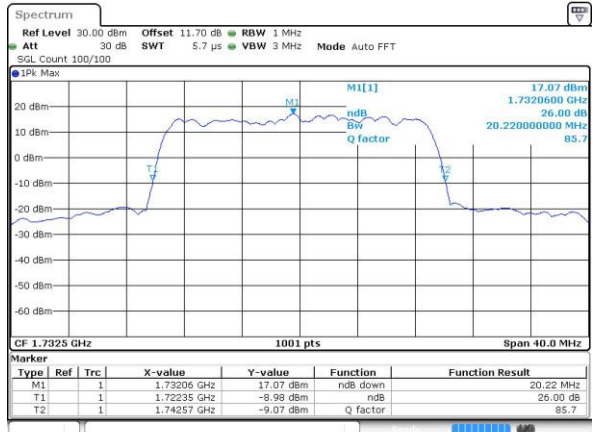
Date: 20 DEC 2016 14:36:06

Middle Channel / 20MHz / QPSK



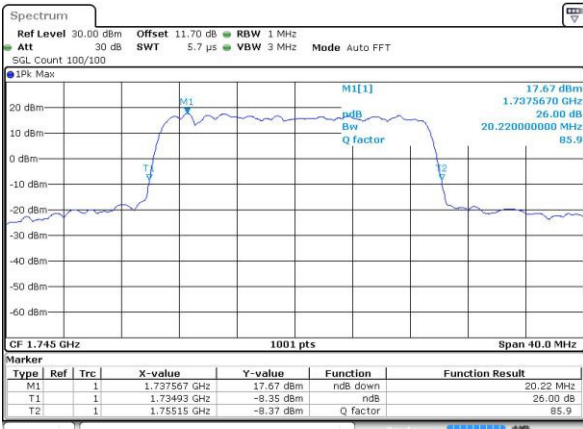
Date: 20 DEC 2016 14:43:02

Middle Channel / 20MHz / 16QAM



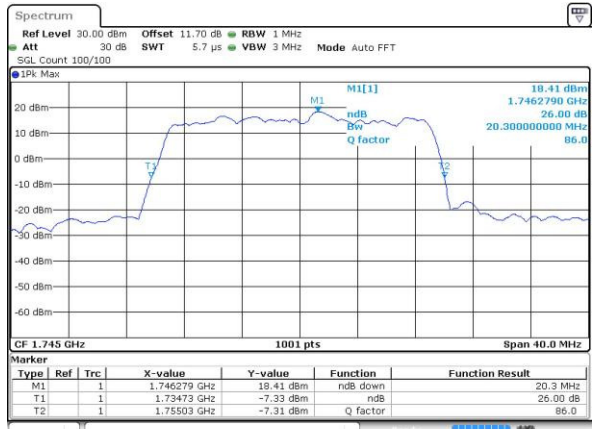
Date: 20 DEC 2016 14:43:12

Highest Channel / 20MHz / QPSK



Date: 20 DEC 2016 14:45:32

Highest Channel / 20MHz / 16QAM



Date: 20 DEC 2016 14:45:42



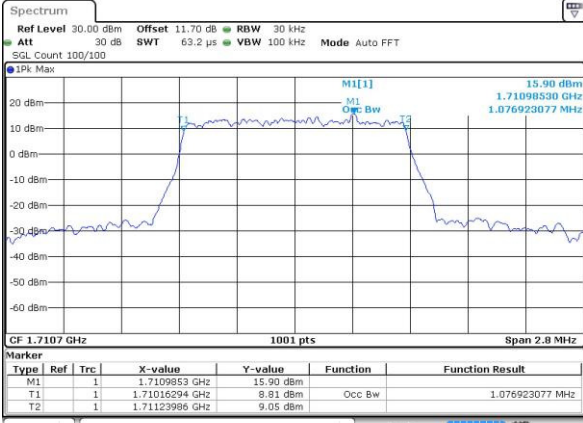
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.08	1.09	2.73	2.75	4.49	4.5	9.01	9.05	13.43	13.43	18.3	18.42
Middle CH	1.1	1.1	2.75	2.71	4.5	4.49	9.09	9.01	13.46	13.46	18.54	18.58
Highest CH	1.09	1.09	2.71	2.73	4.52	4.5	9.09	9.07	13.43	13.46	18.34	18.54



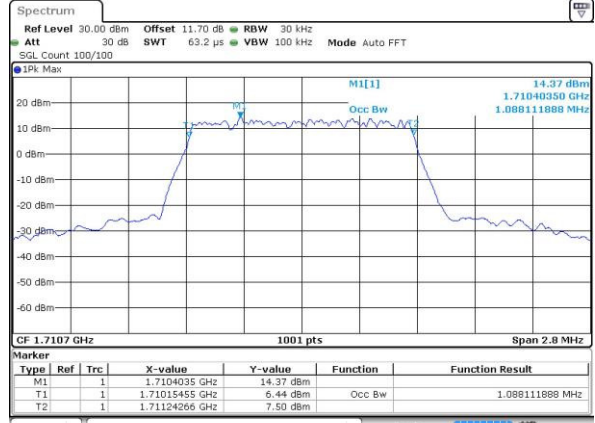
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



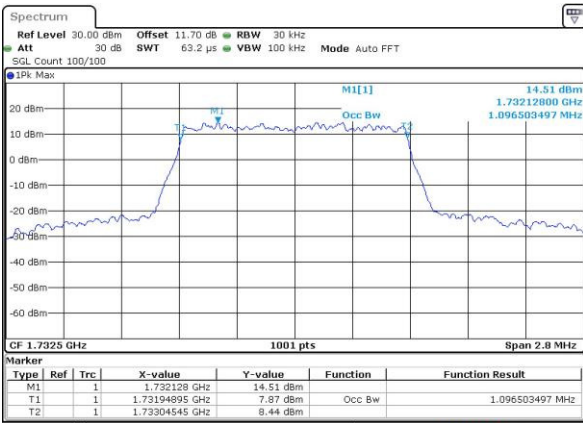
Date: 20 DEC 2016 14:52:17

Lowest Channel / 1.4MHz / 16QAM



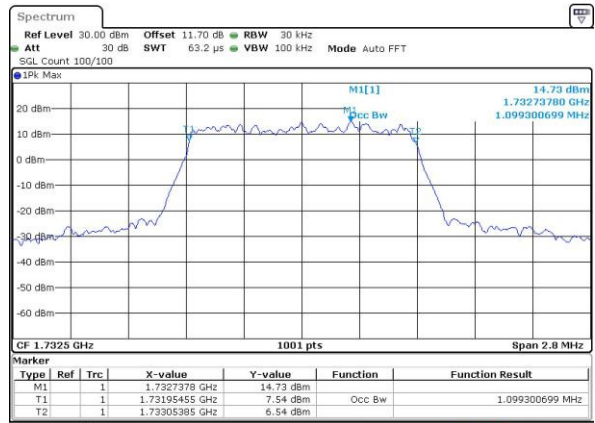
Date: 20 DEC 2016 14:52:28

Middle Channel / 1.4MHz / QPSK



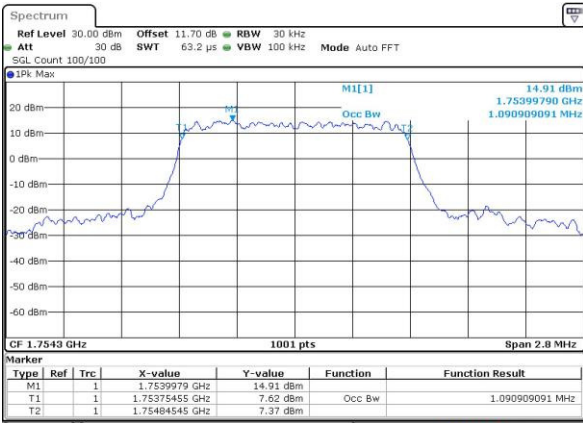
Date: 20 DEC 2016 14:59:23

Middle Channel / 1.4MHz / 16QAM



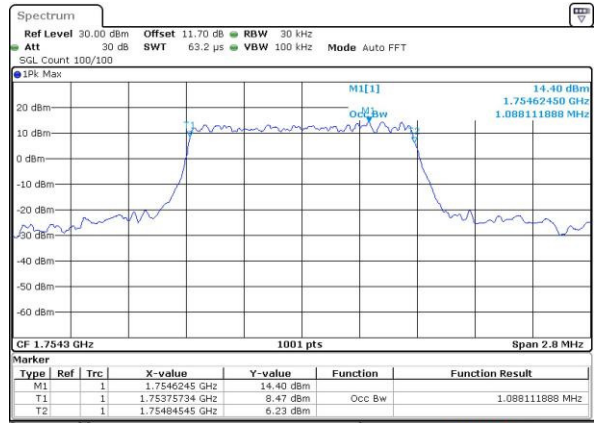
Date: 20 DEC 2016 14:59:34

Highest Channel / 1.4MHz / QPSK



Date: 20 DEC 2016 15:01:53

Highest Channel / 1.4MHz / 16QAM

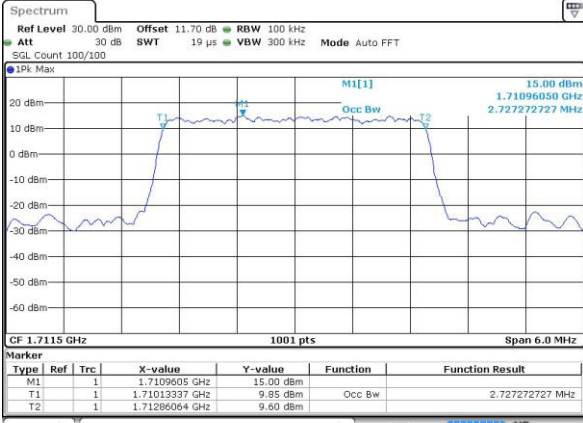


Date: 20 DEC 2016 15:02:04



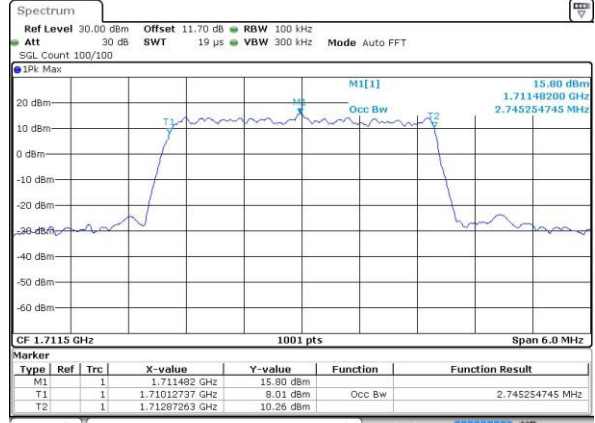
LTE Band 4

Lowest Channel / 3MHz / QPSK



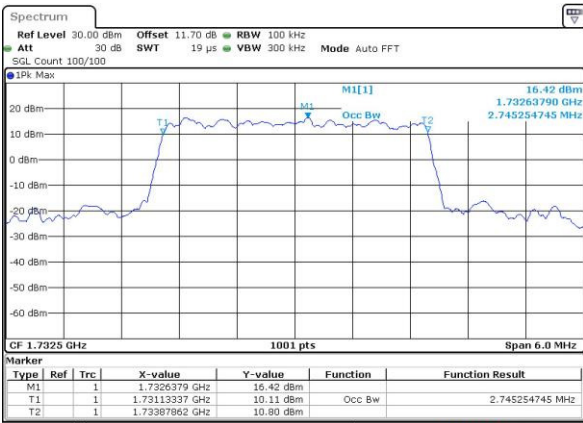
Date: 19 DEC 2016 18:07:36

Lowest Channel / 3MHz / 16QAM



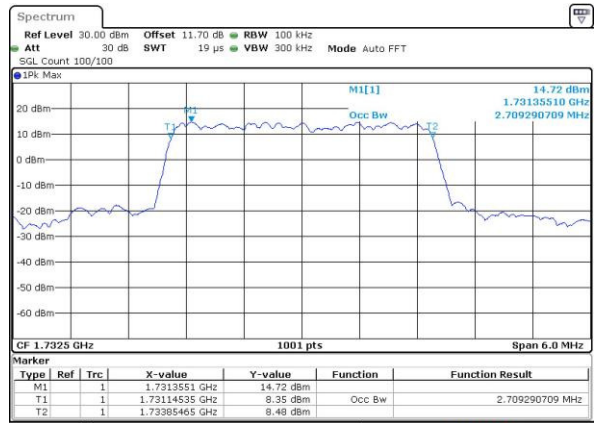
Date: 19 DEC 2016 18:07:46

Middle Channel / 3MHz / QPSK



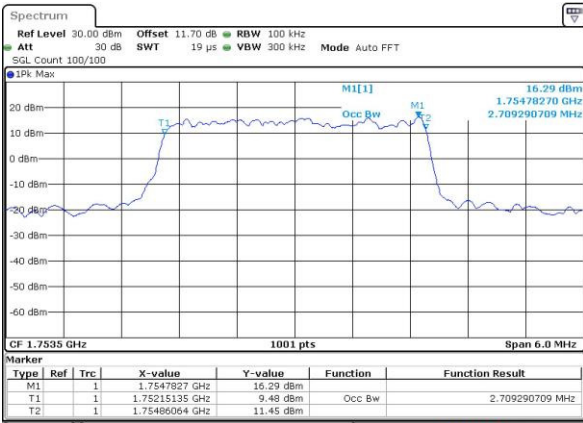
Date: 19 DEC 2016 18:14:43

Middle Channel / 3MHz / 16QAM



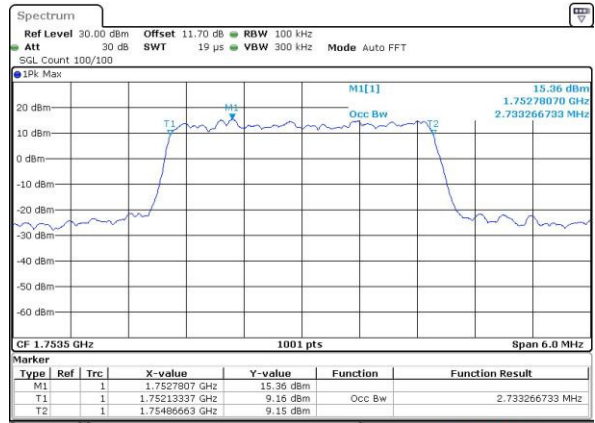
Date: 19 DEC 2016 18:14:53

Highest Channel / 3MHz / QPSK



Date: 19 DEC 2016 18:17:13

Highest Channel / 3MHz / 16QAM

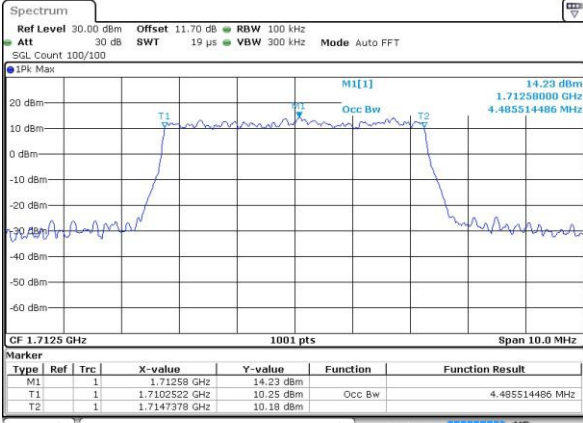


Date: 19 DEC 2016 18:17:23



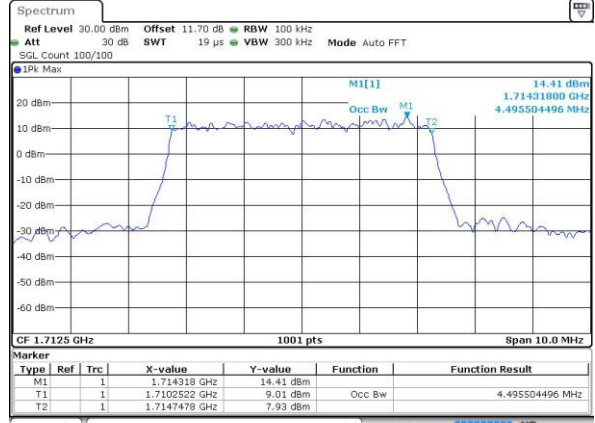
LTE Band 4

Lowest Channel / 5MHz / QPSK



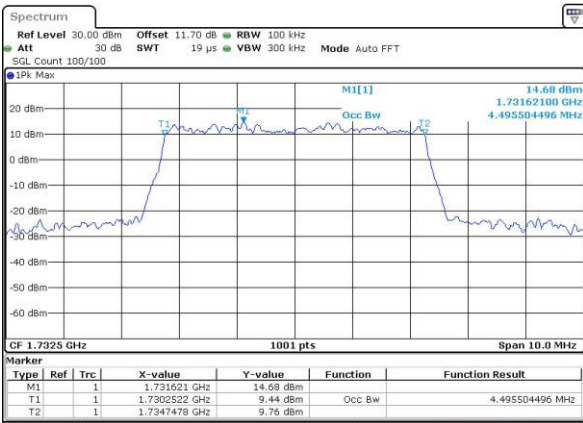
Date: 19 DEC 2016 18:24:20

Lowest Channel / 5MHz / 16QAM



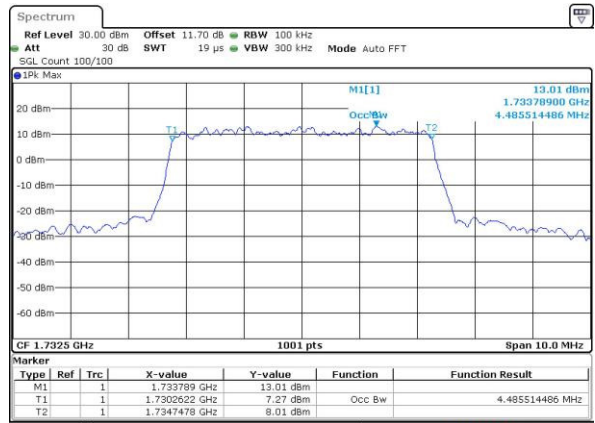
Date: 19 DEC 2016 18:24:30

Middle Channel / 5MHz / QPSK



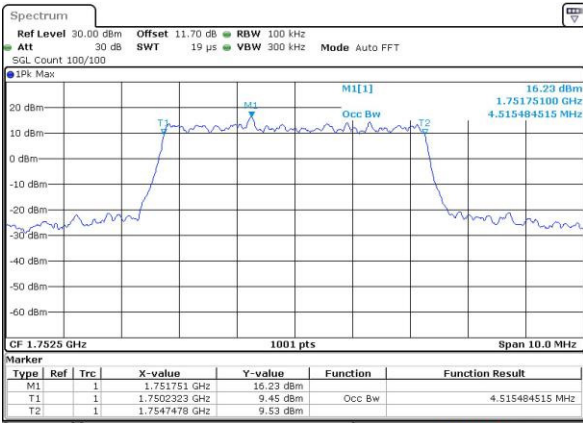
Date: 19 DEC 2016 18:31:27

Middle Channel / 5MHz / 16QAM



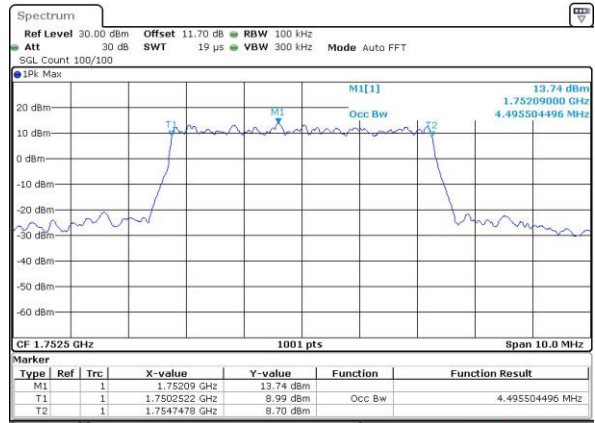
Date: 19 DEC 2016 18:31:37

Highest Channel / 5MHz / QPSK



Date: 19 DEC 2016 18:33:57

Highest Channel / 5MHz / 16QAM

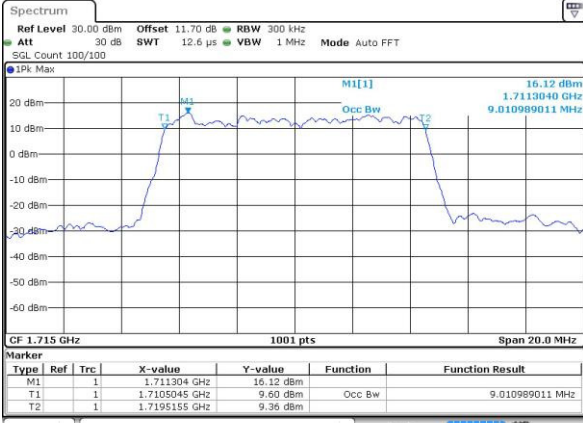


Date: 19 DEC 2016 18:34:08



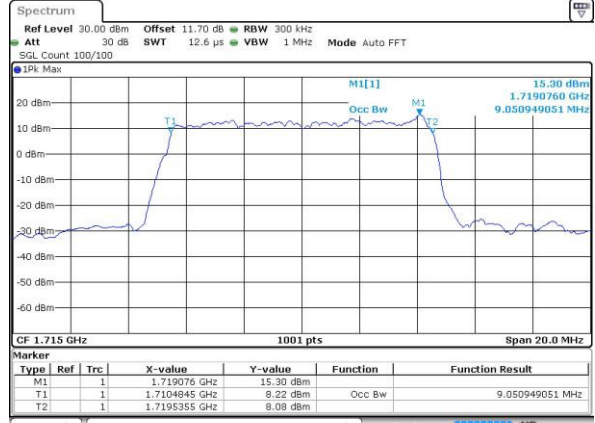
LTE Band 4

Lowest Channel / 10MHz / QPSK



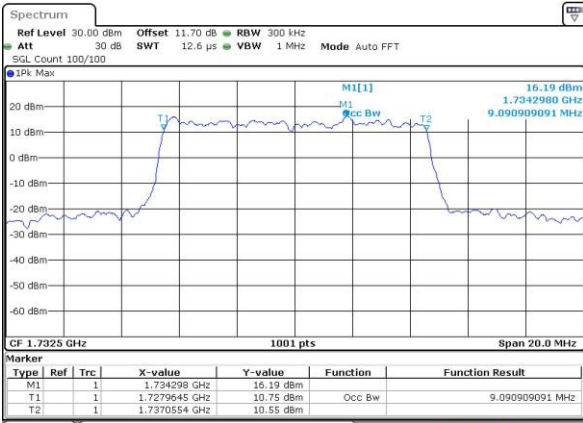
Date: 19 DEC 2016 18:41:04

Lowest Channel / 10MHz / 16QAM



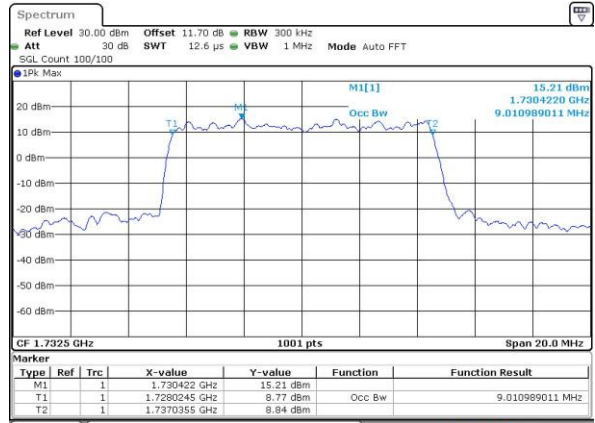
Date: 19 DEC 2016 18:41:14

Middle Channel / 10MHz / QPSK



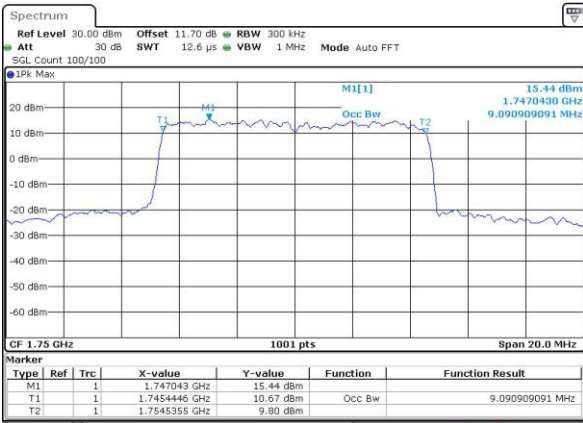
Date: 19 DEC 2016 18:48:10

Middle Channel / 10MHz / 16QAM



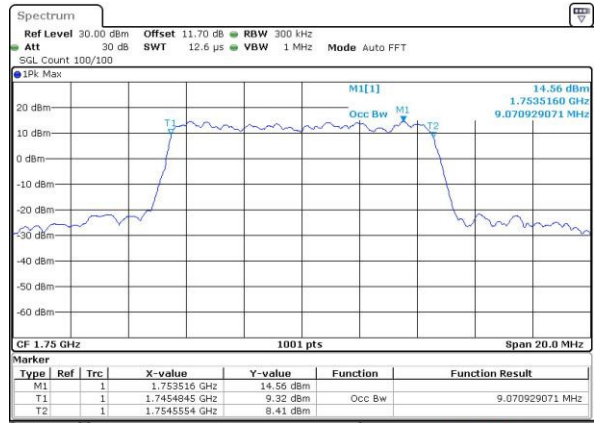
Date: 19 DEC 2016 18:48:21

Highest Channel / 10MHz / QPSK



Date: 19 DEC 2016 19:06:39

Highest Channel / 10MHz / 16QAM

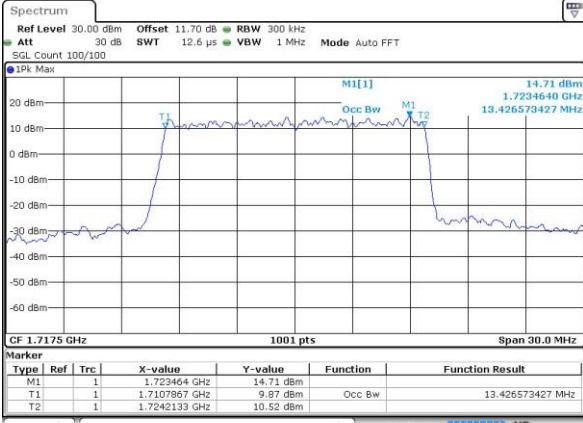


Date: 19 DEC 2016 19:06:49



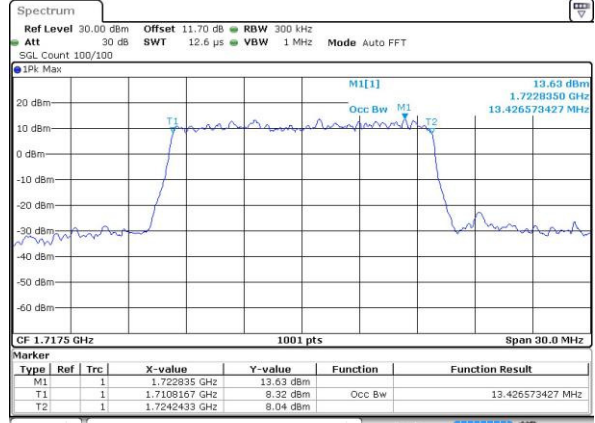
LTE Band 4

Lowest Channel / 15MHz / QPSK



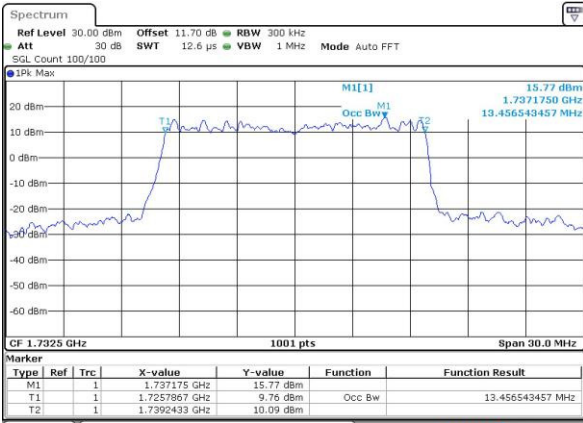
Date: 20 DEC 2016 14:18:30

Lowest Channel / 15MHz / 16QAM



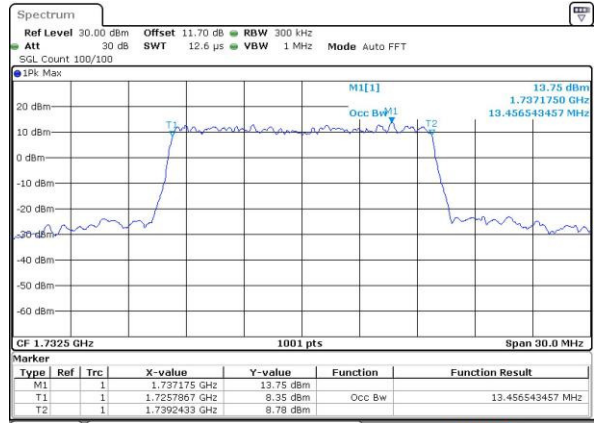
Date: 20 DEC 2016 14:18:41

Middle Channel / 15MHz / QPSK



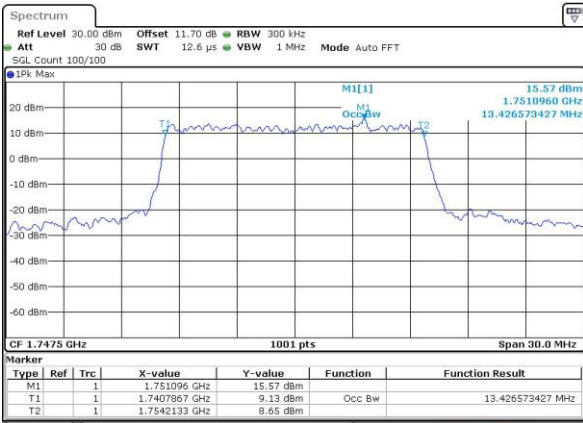
Date: 20 DEC 2016 14:25:57

Middle Channel / 15MHz / 16QAM



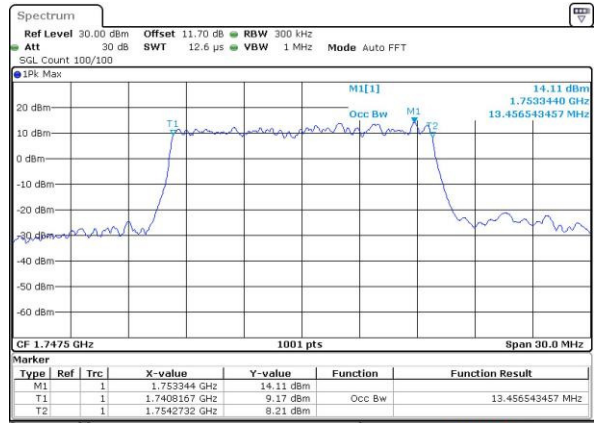
Date: 20 DEC 2016 14:26:08

Highest Channel / 15MHz / QPSK



Date: 20 DEC 2016 14:28:28

Highest Channel / 15MHz / 16QAM

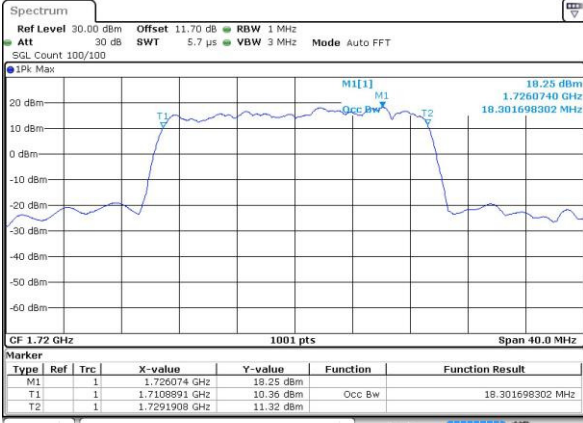


Date: 20 DEC 2016 14:28:38



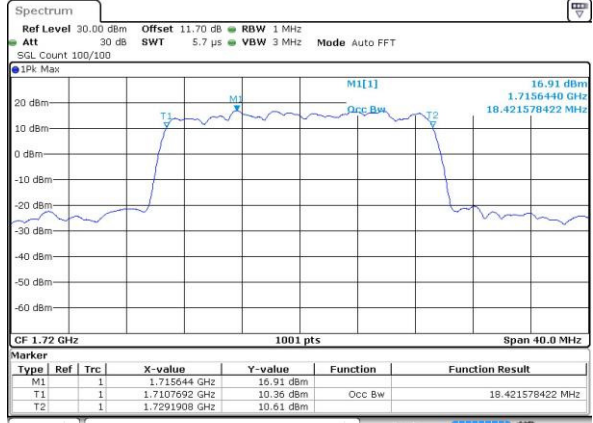
LTE Band 4

Lowest Channel / 20MHz / QPSK



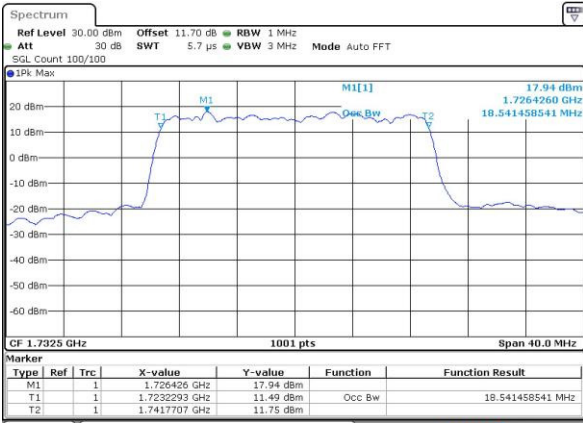
Date: 20 DEC 2016 14:35:35

Lowest Channel / 20MHz / 16QAM



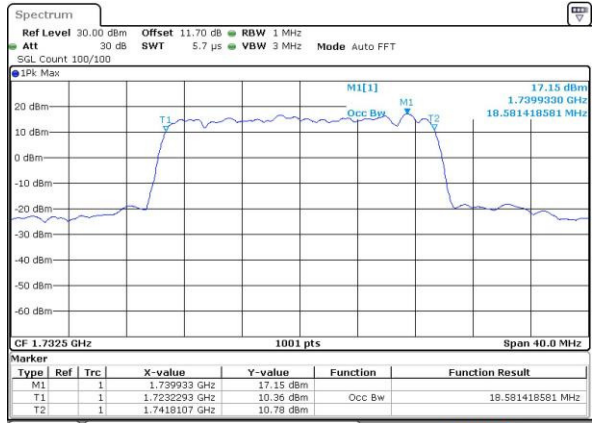
Date: 20 DEC 2016 14:35:45

Middle Channel / 20MHz / QPSK



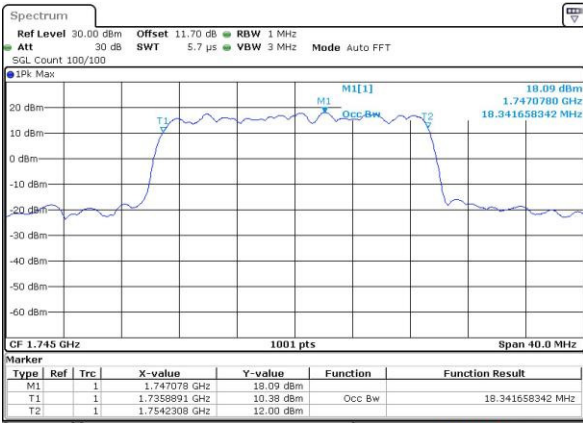
Date: 20 DEC 2016 14:42:41

Middle Channel / 20MHz / 16QAM



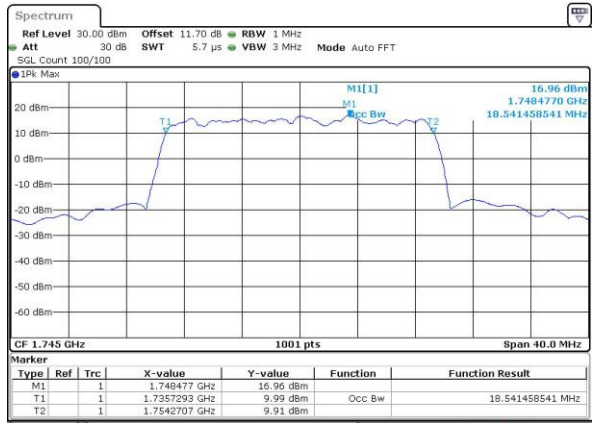
Date: 20 DEC 2016 14:42:52

Highest Channel / 20MHz / QPSK



Date: 20 DEC 2016 14:45:11

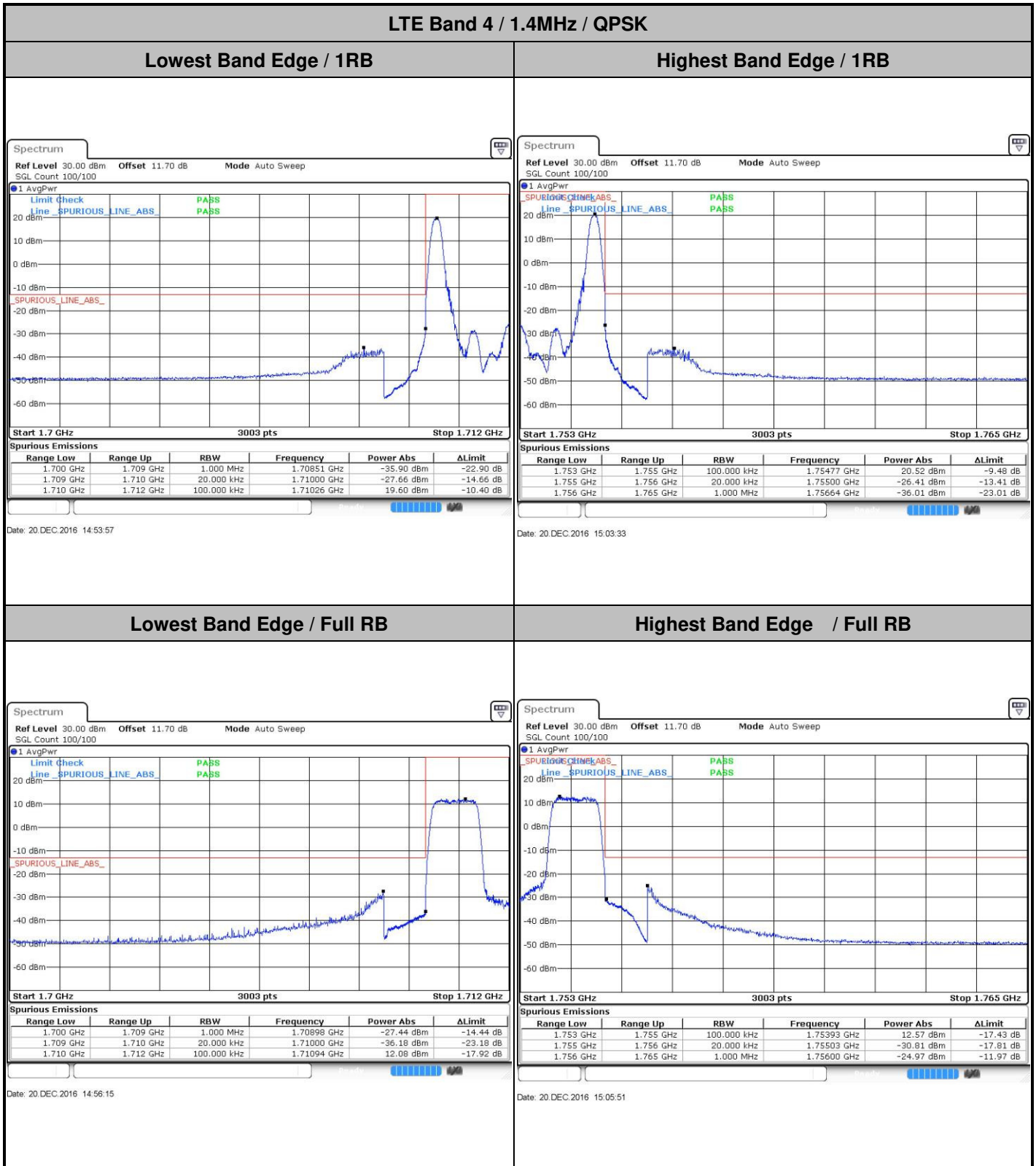
Highest Channel / 20MHz / 16QAM



Date: 20 DEC 2016 14:45:21



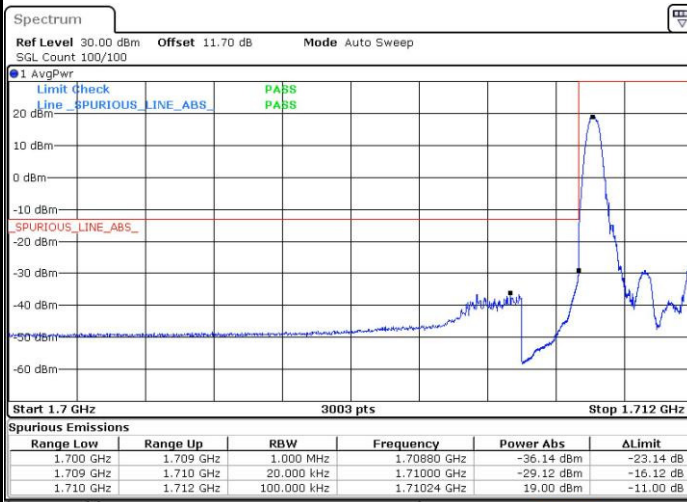
Conducted Band Edge





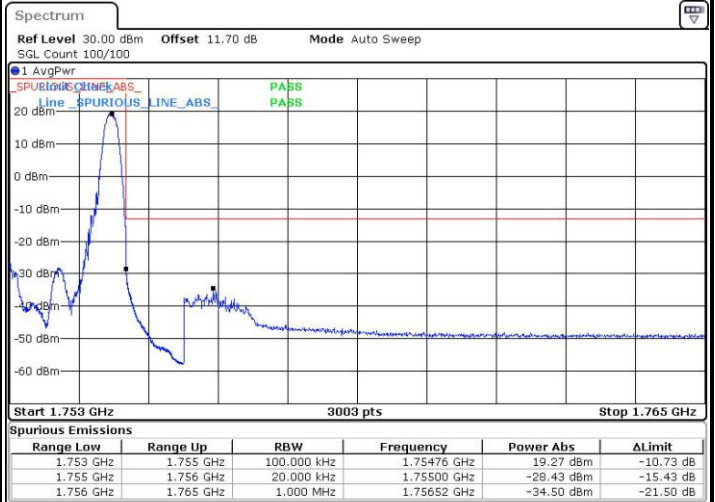
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



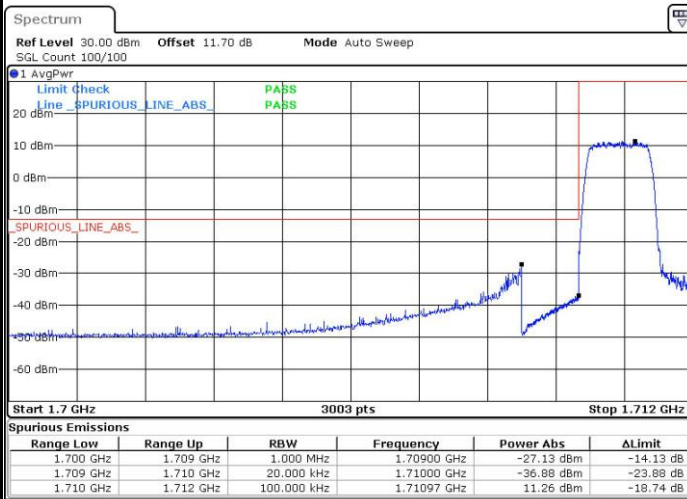
Date: 20 DEC 2016 14:55:06

Highest Band Edge / 1 RB



Date: 20 DEC 2016 15:04:42

Lowest Band Edge / Full RB



Date: 20 DEC 2016 14:57:24

Highest Band Edge / Full RB



Date: 20 DEC 2016 15:07:00