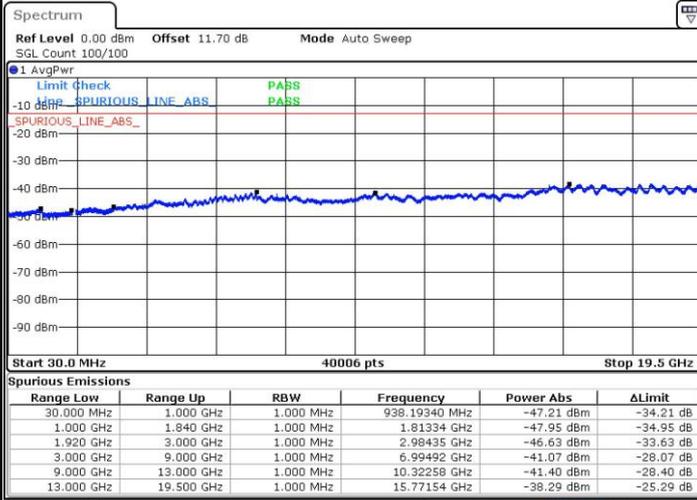




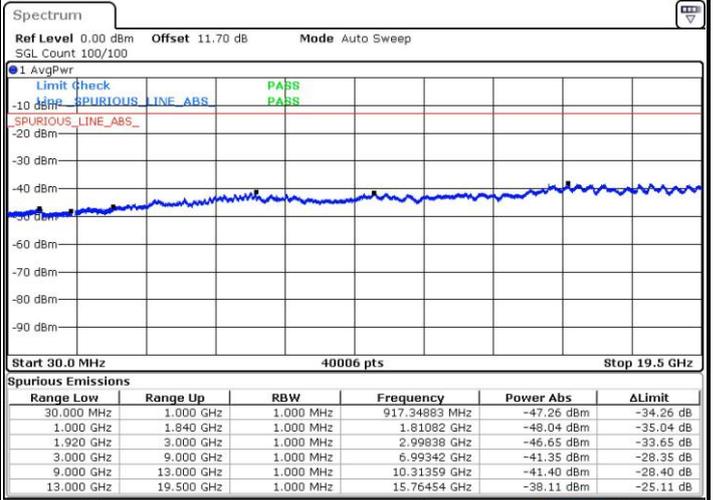
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 8 JAN 2017 18:23:39

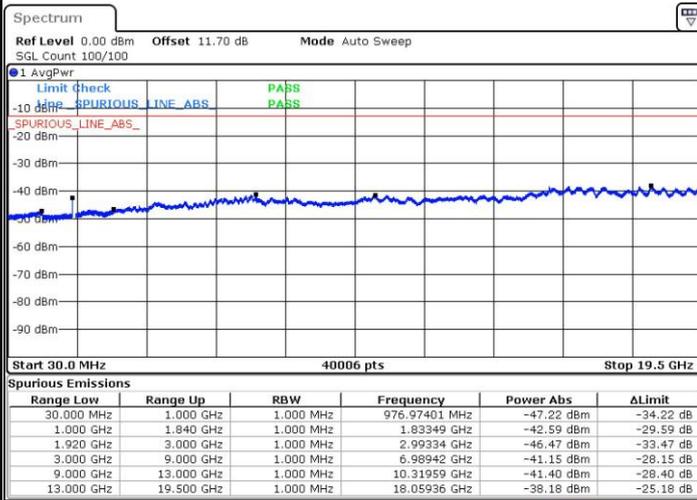
Highest Channel / 16QAM



Date: 8 JAN 2017 18:24:34

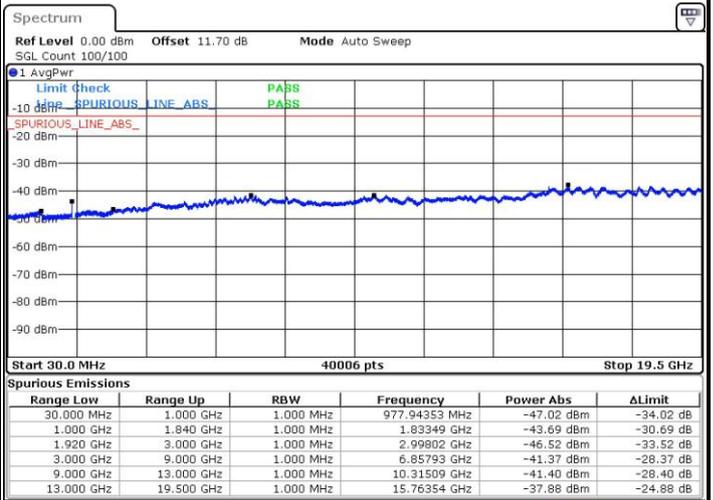
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 8 JAN 2017 18:30:46

Lowest Channel / 16QAM



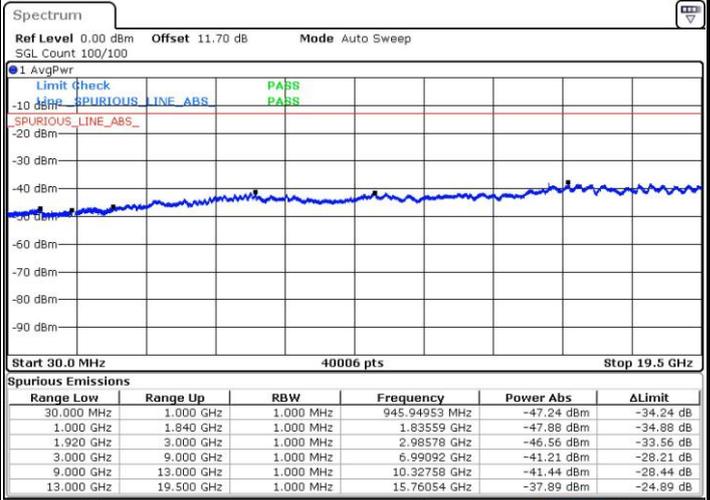
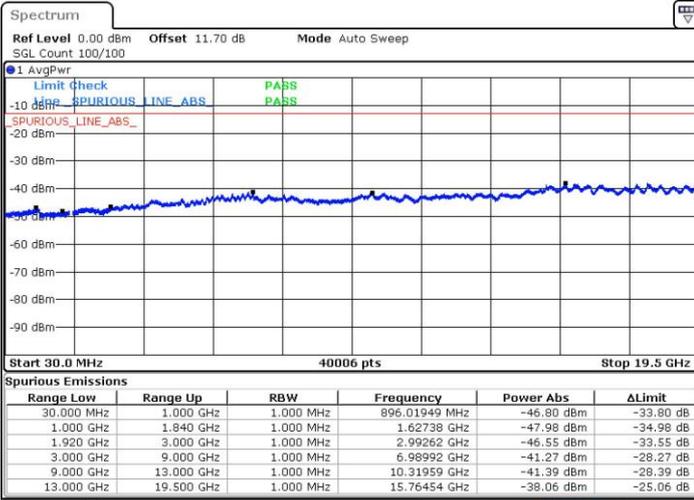
Date: 8 JAN 2017 18:31:40



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

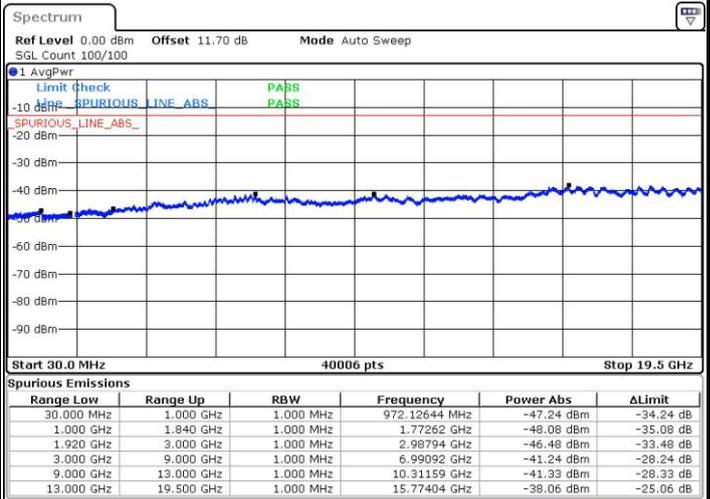
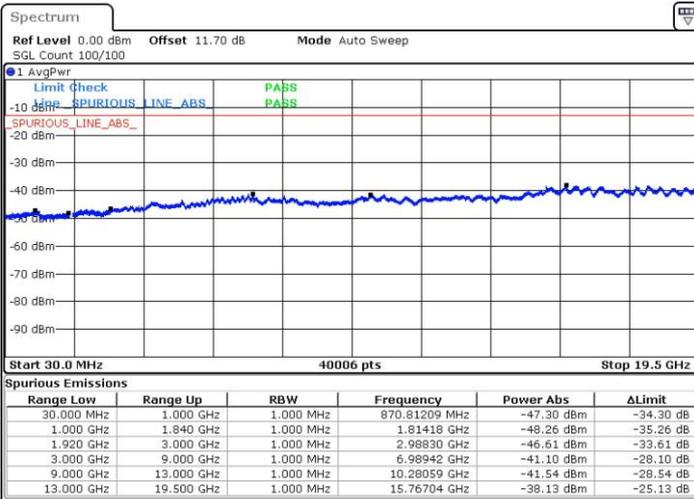


Date: 8 JAN 2017 18:33:16

Date: 8 JAN 2017 18:34:11

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 8 JAN 2017 18:40:23

Date: 8 JAN 2017 18:41:17



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	0.0015	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

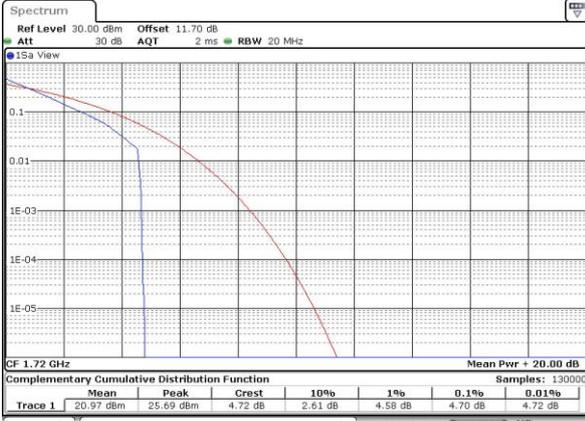
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.7	5.04	5.65	6.03	PASS
Middle CH	4.75	5.19	5.51	6.03	
Highest CH	4.72	5.22	5.57	6.14	



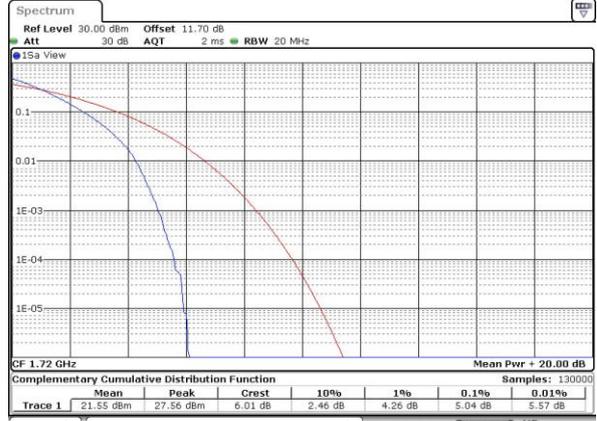
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



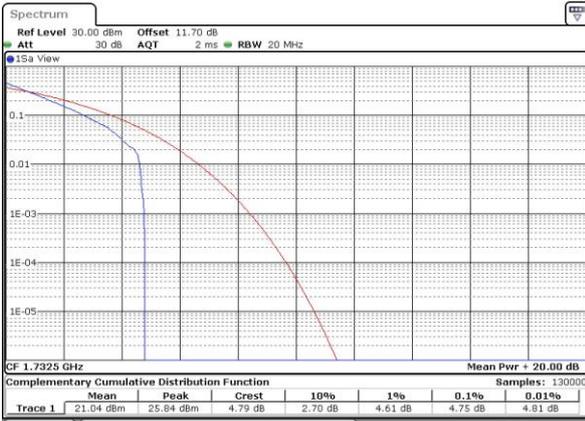
Date: 8 JAN 2017 22:59:13

Lowest Channel / Full RB



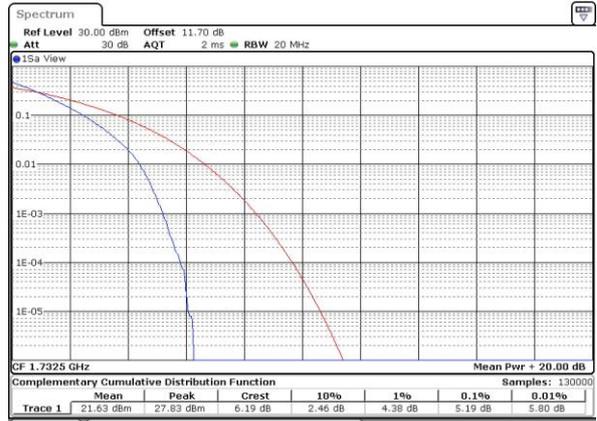
Date: 8 JAN 2017 22:59:23

Middle Channel / 1RB



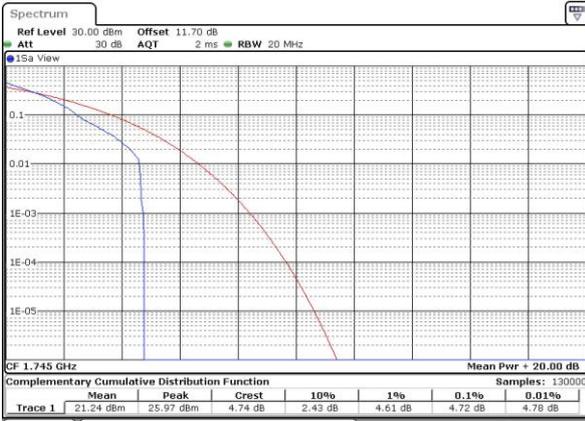
Date: 8 JAN 2017 22:59:33

Middle Channel / Full RB



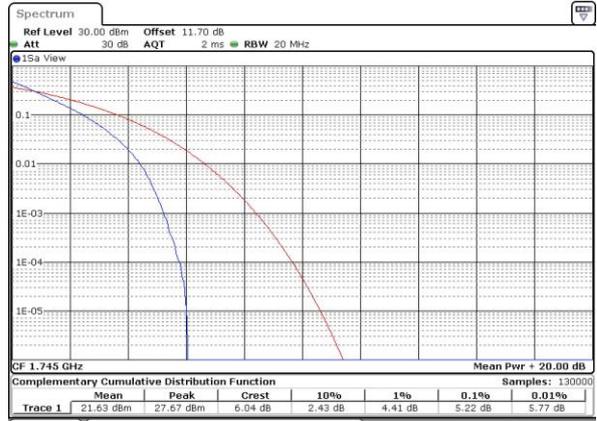
Date: 8 JAN 2017 22:59:42

Highest Channel / 1RB



Date: 8 JAN 2017 22:59:52

Highest Channel / Full RB

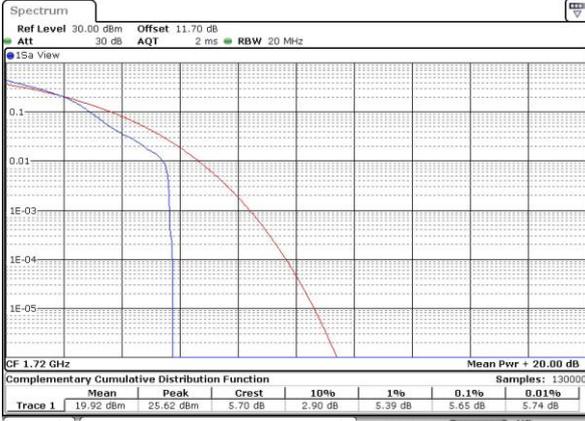


Date: 8 JAN 2017 23:00:01



LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



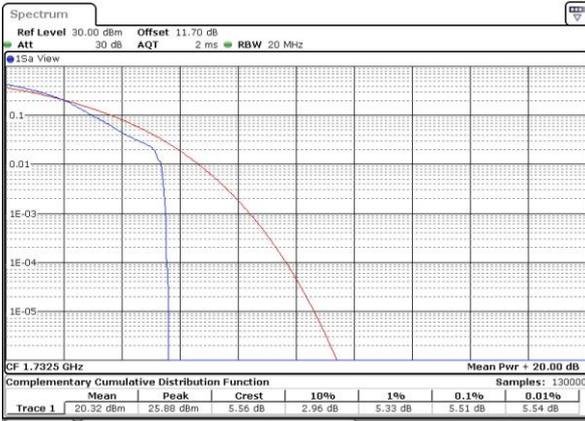
Date: 8 JAN 2017 22:52:28

Lowest Channel / Full RB



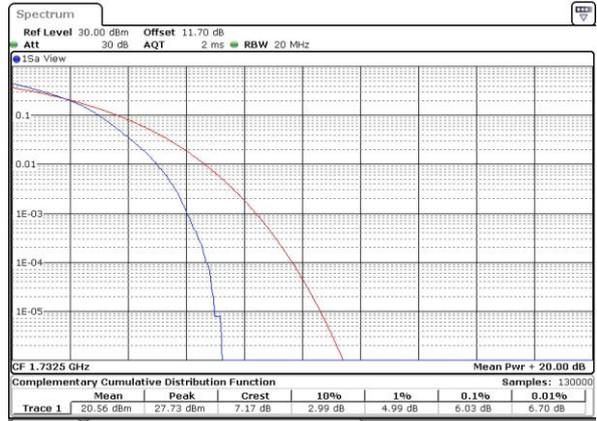
Date: 8 JAN 2017 22:52:39

Middle Channel / 1RB



Date: 8 JAN 2017 22:52:50

Middle Channel / Full RB



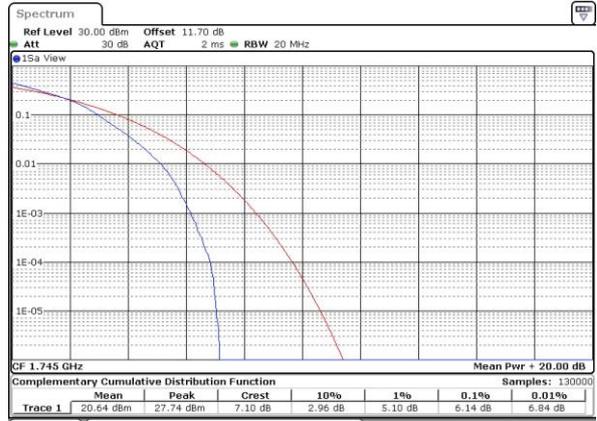
Date: 8 JAN 2017 22:56:56

Highest Channel / 1RB



Date: 8 JAN 2017 22:58:54

Highest Channel / Full RB



Date: 8 JAN 2017 22:59:04



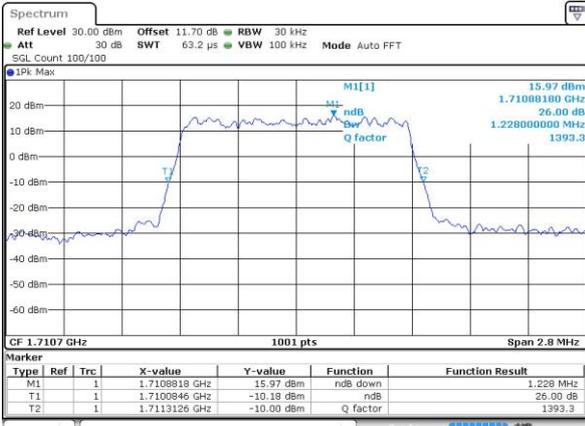
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.228	1.222	2.985	3.027	4.965	4.885	9.85	9.73	14.296	14.476	20.1	20.26
Middle CH	1.231	1.222	2.979	3.039	4.885	4.925	9.75	9.69	14.476	14.565	20.18	20.18
Highest CH	1.242	1.225	3.033	3.057	4.935	4.965	9.79	9.71	14.326	14.206	20.3	20.26



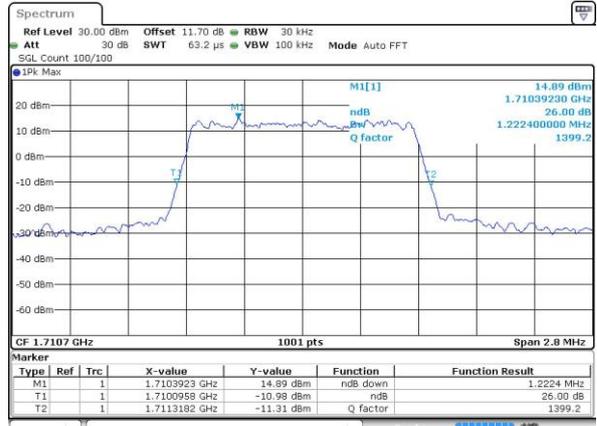
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



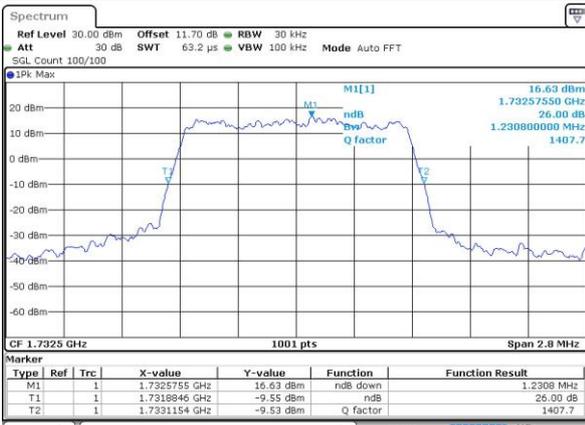
Date: 8 JAN 2017 22:34:08

Lowest Channel / 1.4MHz / 16QAM



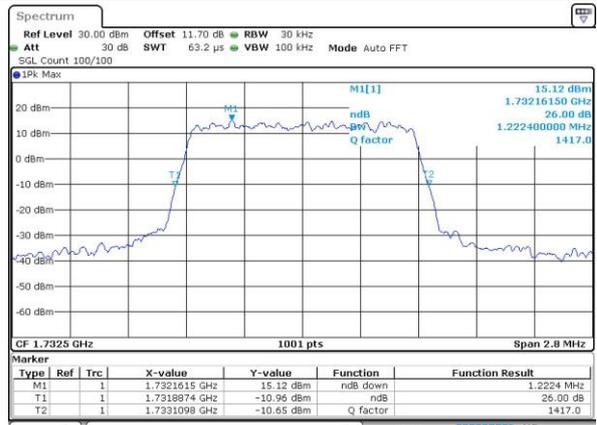
Date: 8 JAN 2017 22:34:19

Middle Channel / 1.4MHz / QPSK



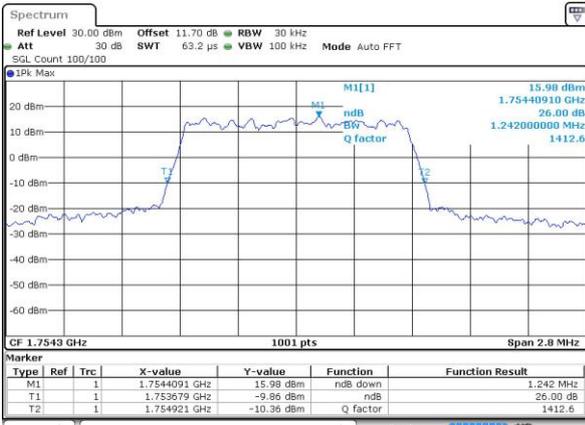
Date: 8 JAN 2017 22:41:15

Middle Channel / 1.4MHz / 16QAM



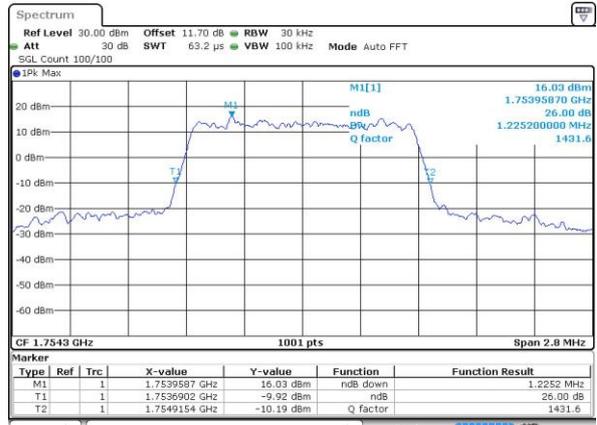
Date: 8 JAN 2017 22:41:27

Highest Channel / 1.4MHz / QPSK



Date: 8 JAN 2017 22:43:47

Highest Channel / 1.4MHz / 16QAM

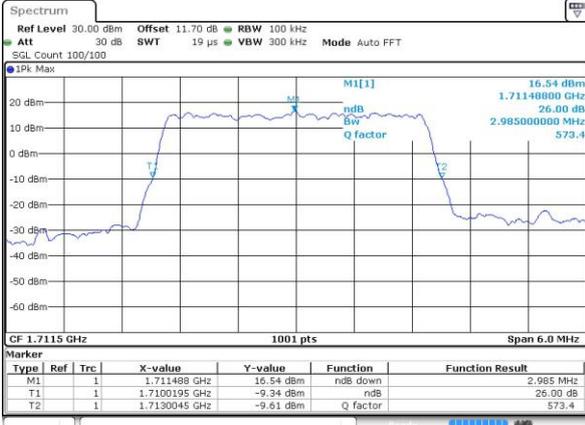


Date: 8 JAN 2017 22:43:57



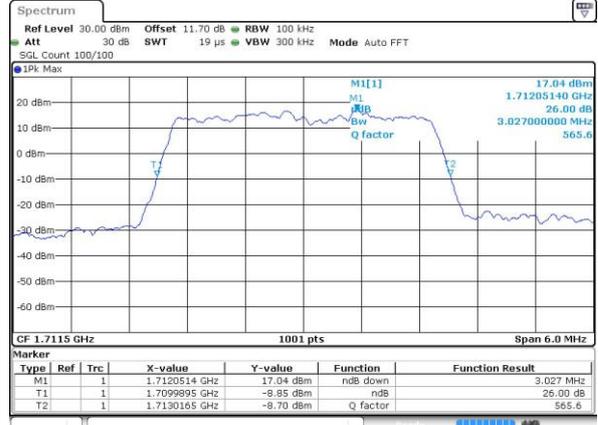
LTE Band 4

Lowest Channel / 3MHz / QPSK



Date: 8 JAN 2017 19:18:31

Lowest Channel / 3MHz / 16QAM



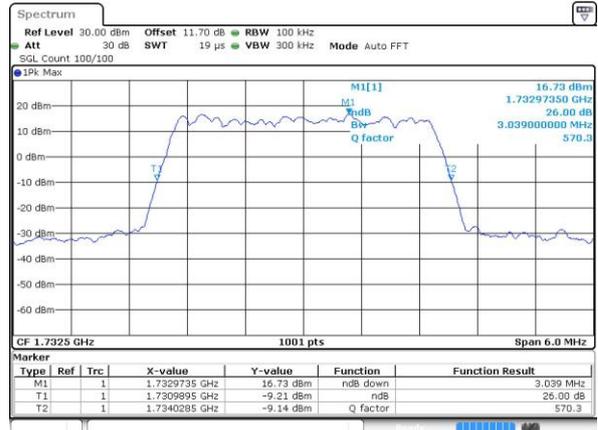
Date: 8 JAN 2017 19:18:41

Middle Channel / 3MHz / QPSK



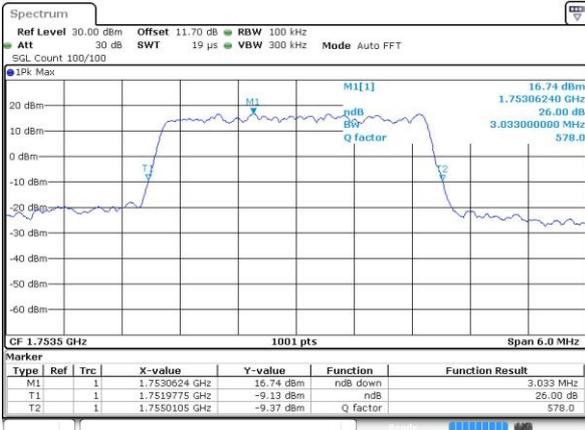
Date: 8 JAN 2017 20:33:35

Middle Channel / 3MHz / 16QAM



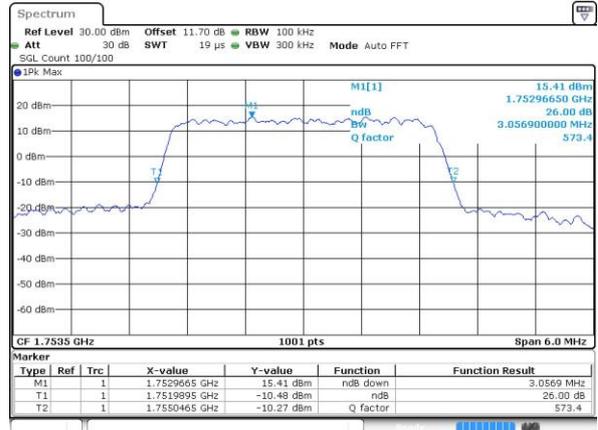
Date: 8 JAN 2017 20:33:45

Highest Channel / 3MHz / QPSK



Date: 8 JAN 2017 20:36:05

Highest Channel / 3MHz / 16QAM

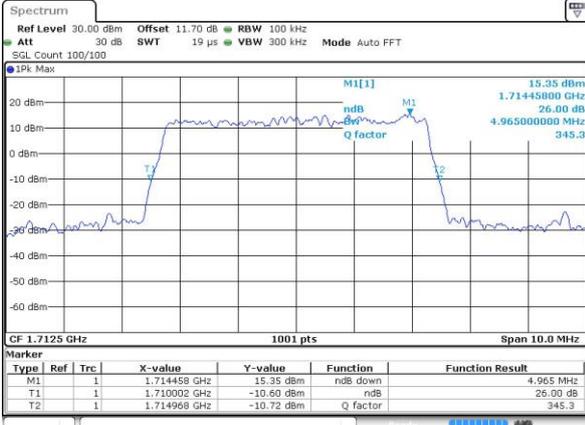


Date: 8 JAN 2017 20:36:16



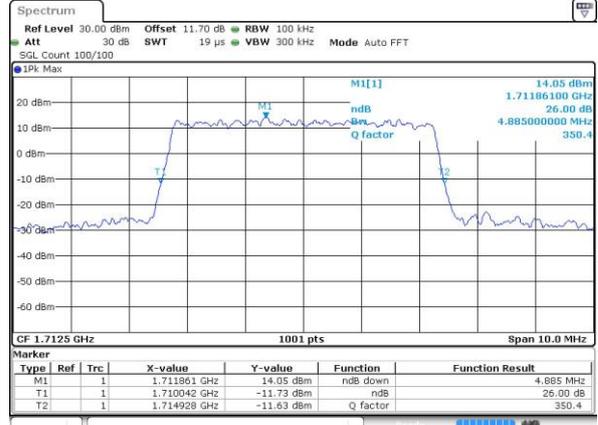
LTE Band 4

Lowest Channel / 5MHz / QPSK



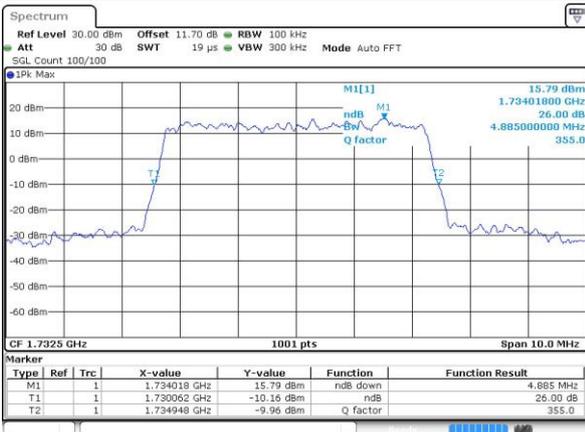
Date: 8 JAN 2017 20:43:12

Lowest Channel / 5MHz / 16QAM



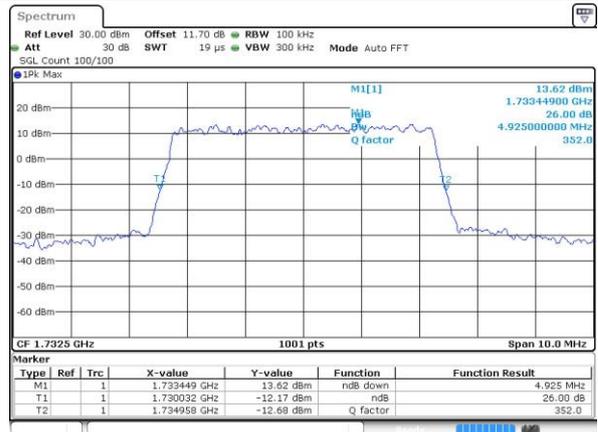
Date: 8 JAN 2017 20:43:22

Middle Channel / 5MHz / QPSK



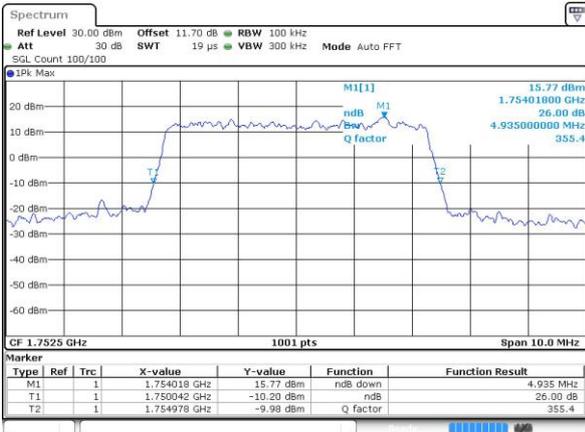
Date: 8 JAN 2017 20:50:19

Middle Channel / 5MHz / 16QAM



Date: 8 JAN 2017 20:50:29

Highest Channel / 5MHz / QPSK



Date: 8 JAN 2017 20:52:49

Highest Channel / 5MHz / 16QAM

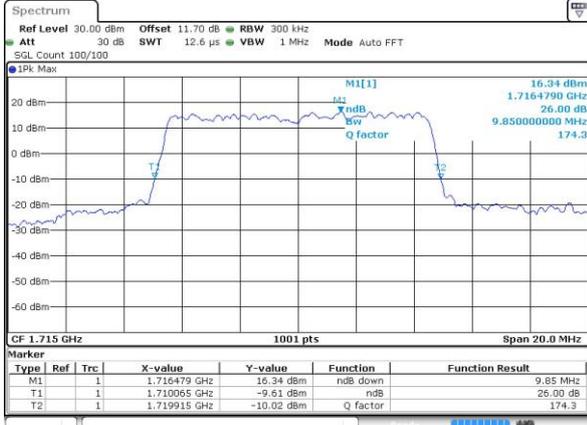


Date: 8 JAN 2017 20:52:59



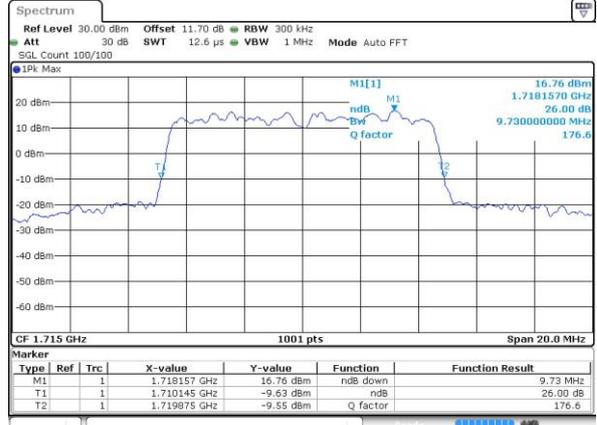
LTE Band 4

Lowest Channel / 10MHz / QPSK



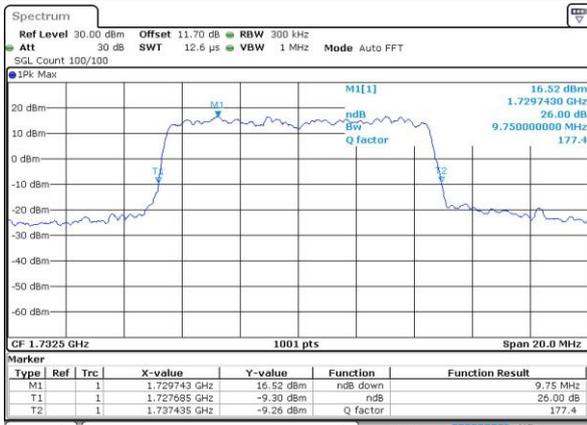
Date: 8 JAN 2017 20:59:56

Lowest Channel / 10MHz / 16QAM



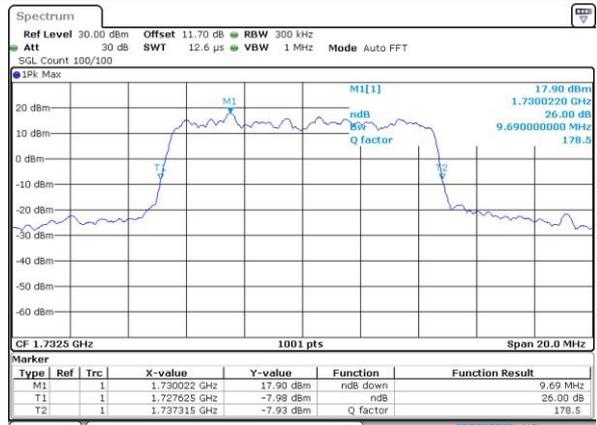
Date: 8 JAN 2017 21:12:03

Middle Channel / 10MHz / QPSK



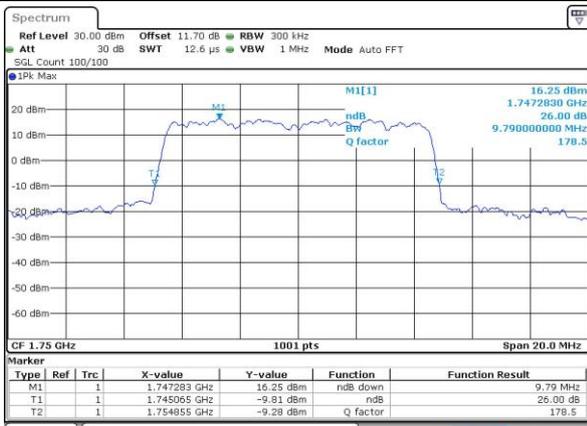
Date: 8 JAN 2017 21:18:59

Middle Channel / 10MHz / 16QAM



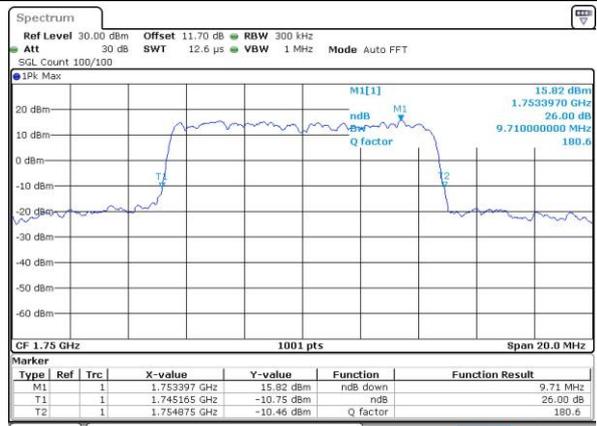
Date: 8 JAN 2017 21:19:10

Highest Channel / 10MHz / QPSK



Date: 8 JAN 2017 21:21:30

Highest Channel / 10MHz / 16QAM

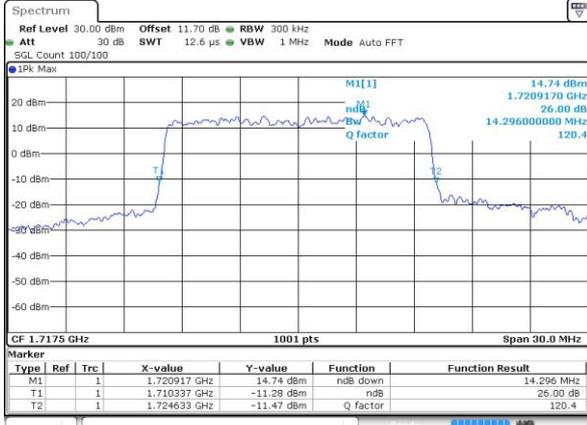


Date: 8 JAN 2017 21:21:40



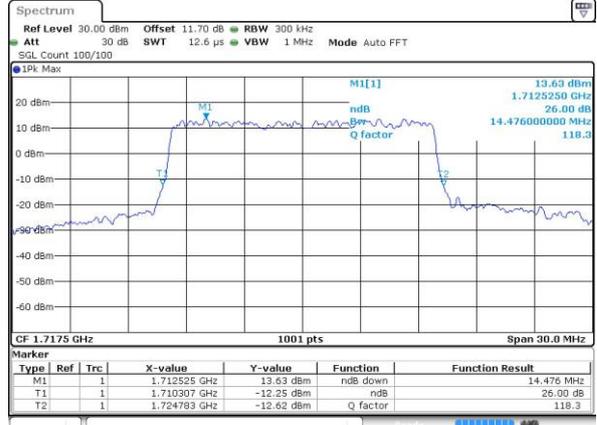
LTE Band 4

Lowest Channel / 15MHz / QPSK



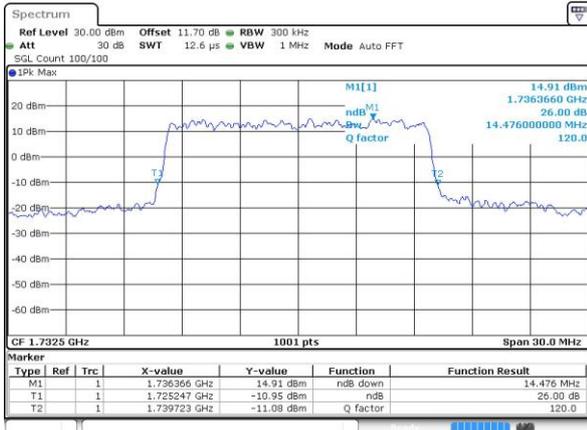
Date: 8 JAN 2017 21:28:36

Lowest Channel / 15MHz / 16QAM



Date: 8 JAN 2017 21:35:26

Middle Channel / 15MHz / QPSK



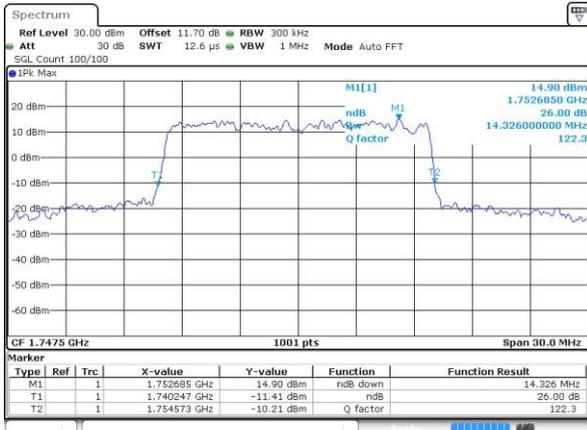
Date: 8 JAN 2017 22:00:23

Middle Channel / 15MHz / 16QAM



Date: 8 JAN 2017 22:00:34

Highest Channel / 15MHz / QPSK



Date: 8 JAN 2017 22:02:54

Highest Channel / 15MHz / 16QAM

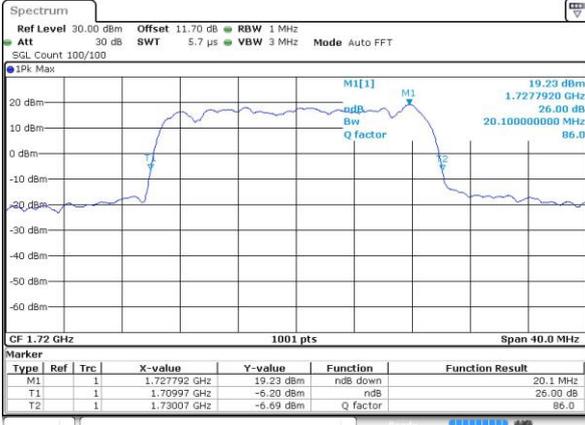


Date: 8 JAN 2017 22:03:04



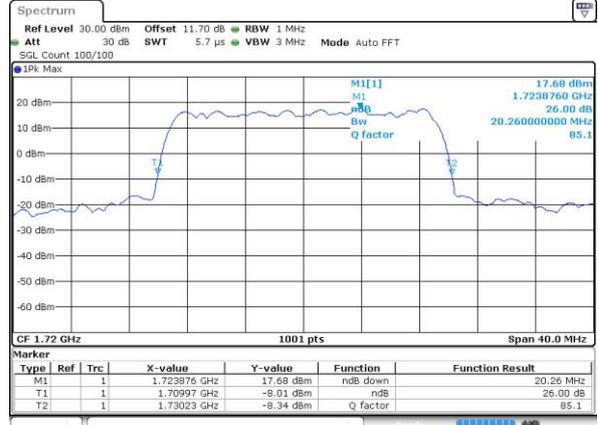
LTE Band 4

Lowest Channel / 20MHz / QPSK



Date: 8 JAN 2017 22:10:01

Lowest Channel / 20MHz / 16QAM



Date: 8 JAN 2017 22:10:11

Middle Channel / 20MHz / QPSK



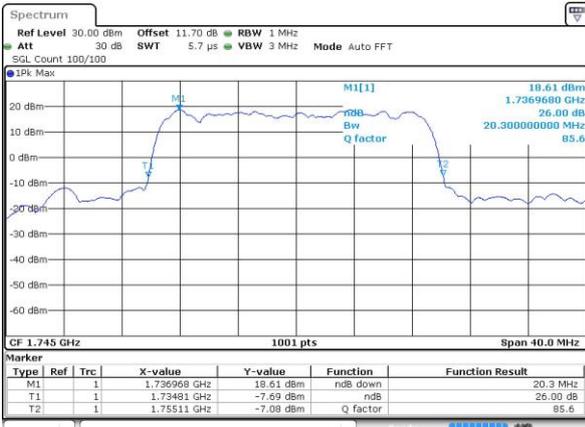
Date: 8 JAN 2017 22:17:07

Middle Channel / 20MHz / 16QAM



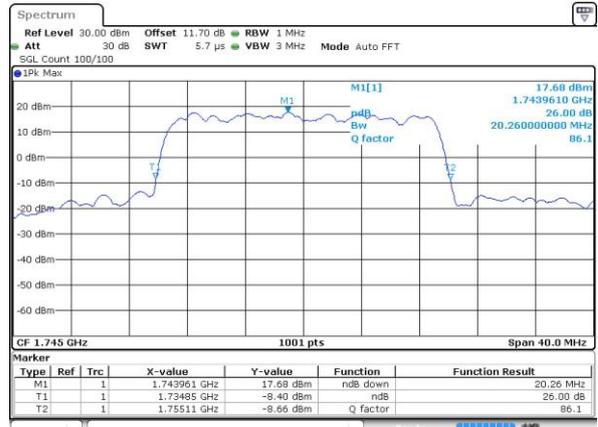
Date: 8 JAN 2017 22:17:18

Highest Channel / 20MHz / QPSK



Date: 8 JAN 2017 22:19:38

Highest Channel / 20MHz / 16QAM



Date: 8 JAN 2017 22:19:48



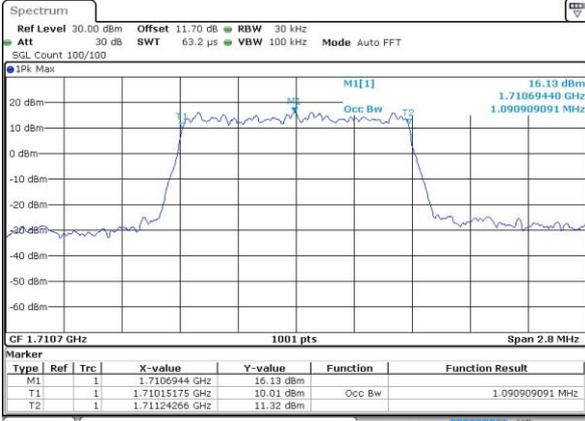
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.1	2.72	2.72	4.48	4.49	9.05	8.99	13.43	13.43	18.46	18.34
Middle CH	1.09	1.09	2.73	2.72	4.49	4.5	9.01	9.03	13.43	13.46	18.3	18.38
Highest CH	1.09	1.09	2.74	2.72	4.49	4.5	9.05	8.99	13.58	13.49	18.58	18.34



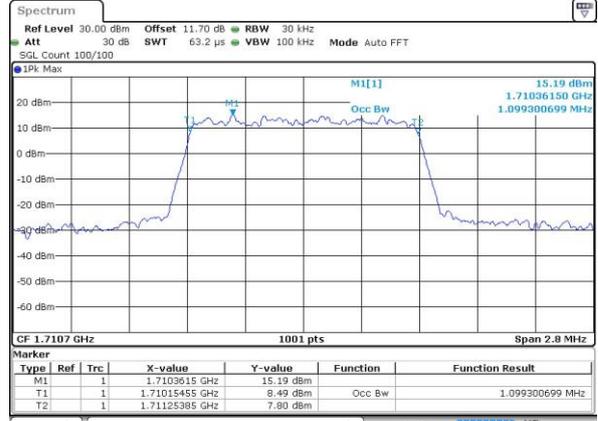
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



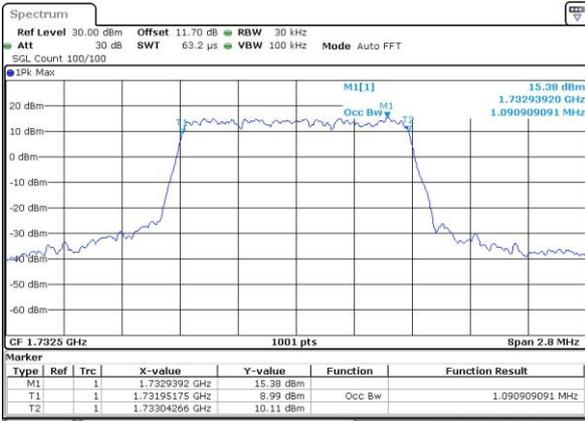
Date: 8 JAN 2017 22:33:48

Lowest Channel / 1.4MHz / 16QAM



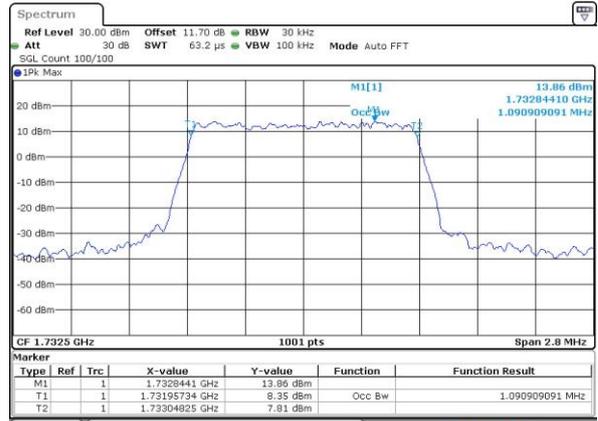
Date: 8 JAN 2017 22:33:58

Middle Channel / 1.4MHz / QPSK



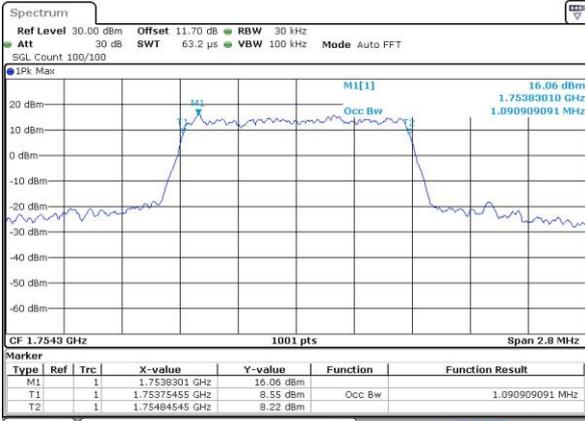
Date: 8 JAN 2017 22:40:54

Middle Channel / 1.4MHz / 16QAM



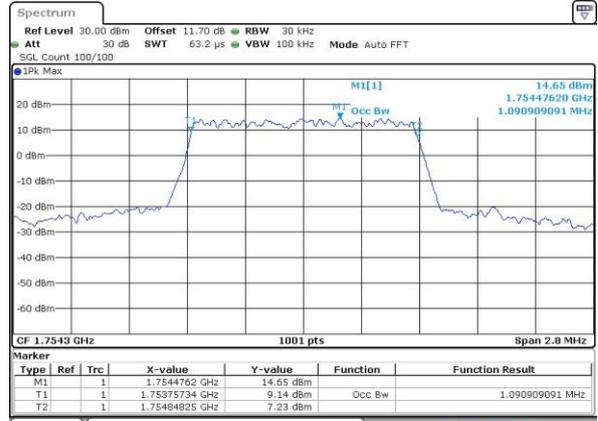
Date: 8 JAN 2017 22:41:05

Highest Channel / 1.4MHz / QPSK



Date: 8 JAN 2017 22:43:26

Highest Channel / 1.4MHz / 16QAM

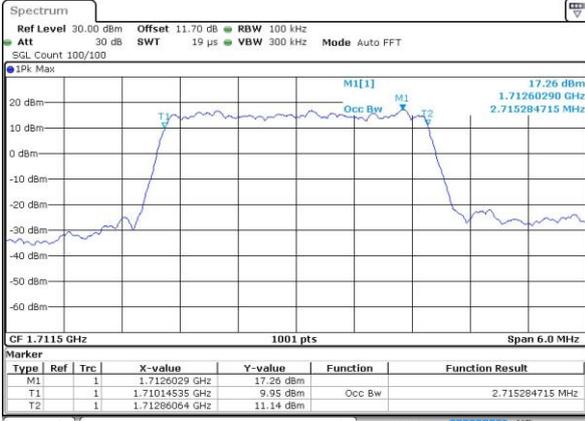


Date: 8 JAN 2017 22:43:36



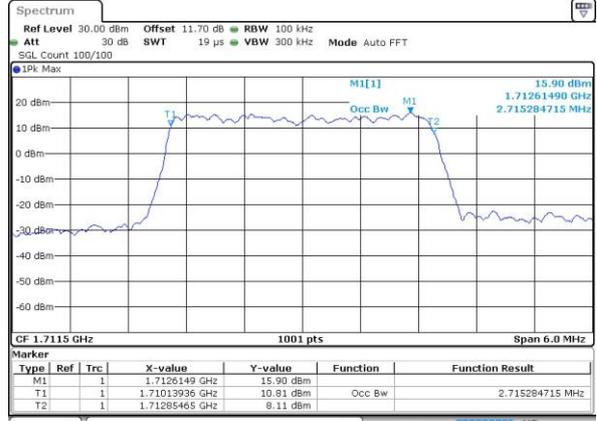
LTE Band 4

Lowest Channel / 3MHz / QPSK



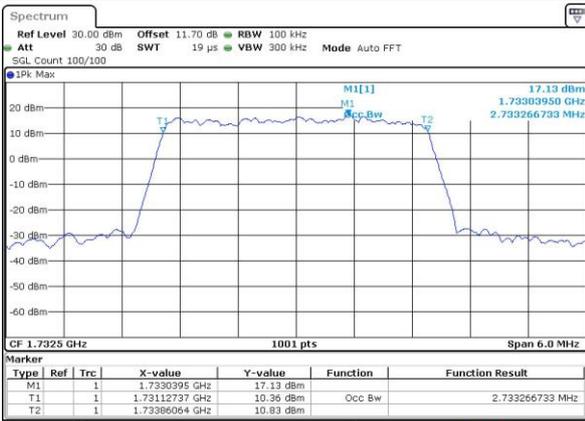
Date: 8 JAN 2017 19:18:10

Lowest Channel / 3MHz / 16QAM



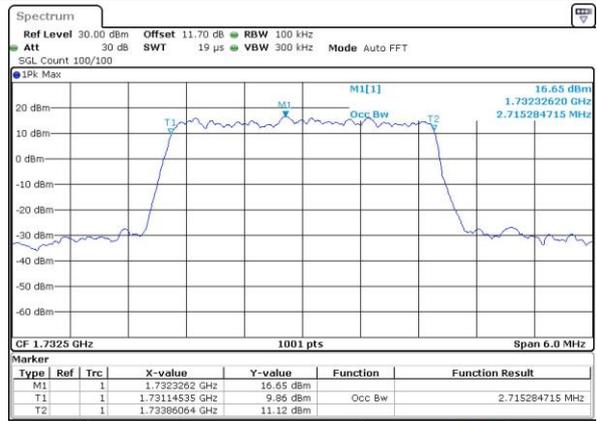
Date: 8 JAN 2017 19:18:20

Middle Channel / 3MHz / QPSK



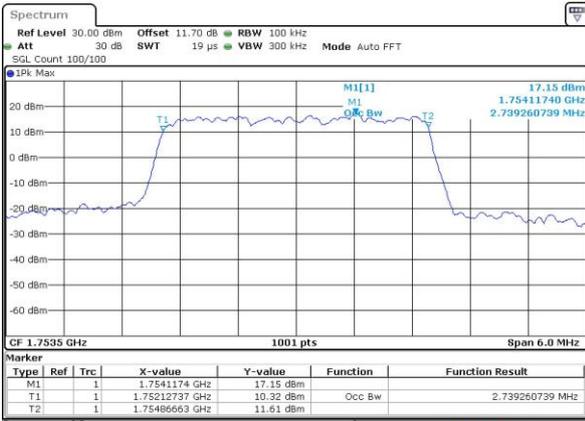
Date: 8 JAN 2017 20:33:14

Middle Channel / 3MHz / 16QAM



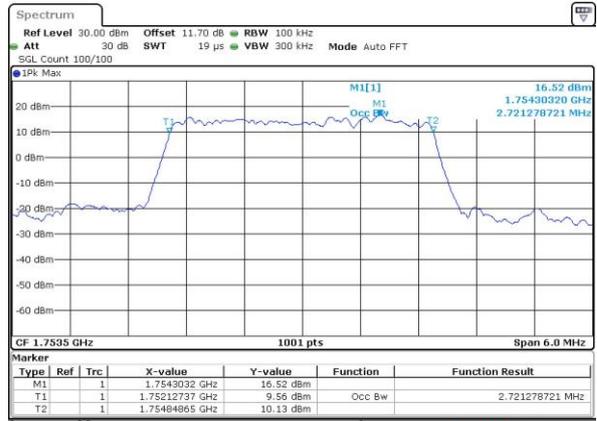
Date: 8 JAN 2017 20:33:25

Highest Channel / 3MHz / QPSK



Date: 8 JAN 2017 20:35:45

Highest Channel / 3MHz / 16QAM

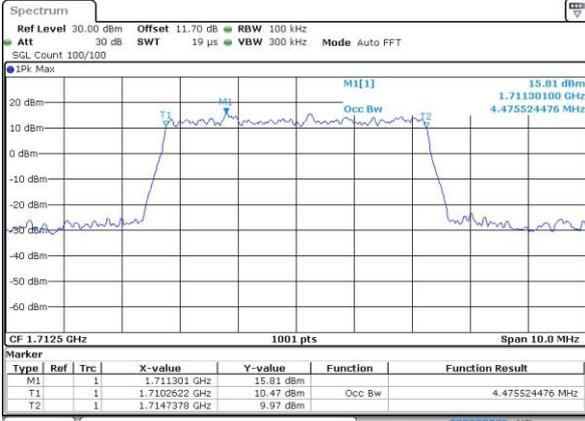


Date: 8 JAN 2017 20:35:55



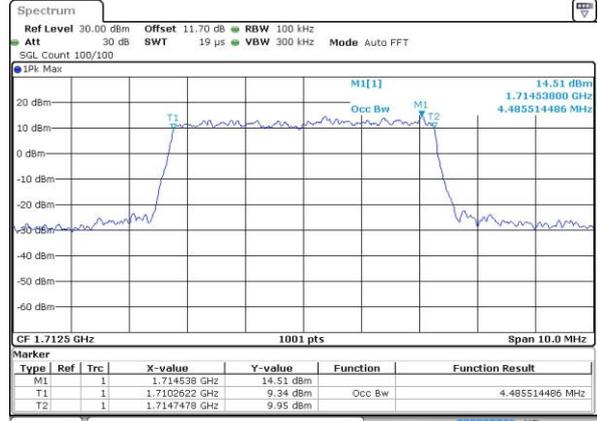
LTE Band 4

Lowest Channel / 5MHz / QPSK



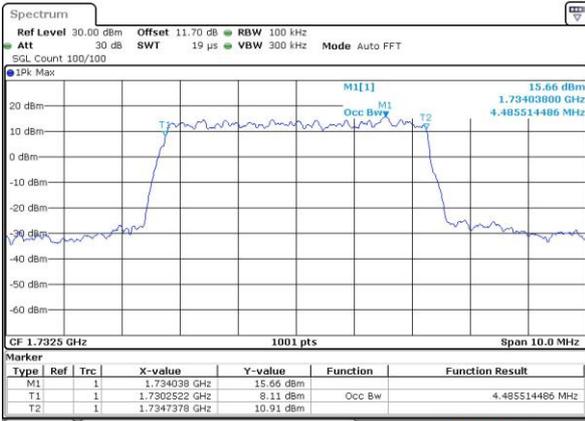
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Lowest Channel / 5MHz / 16QAM



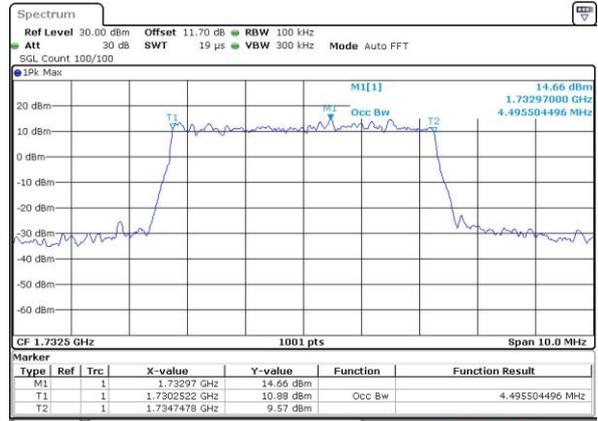
Date: 8 JAN 2017 20:43:02

Middle Channel / 5MHz / QPSK



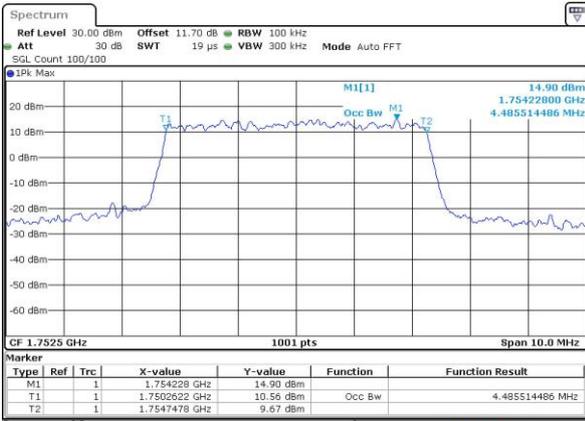
Date: 8 JAN 2017 20:49:58

Middle Channel / 5MHz / 16QAM



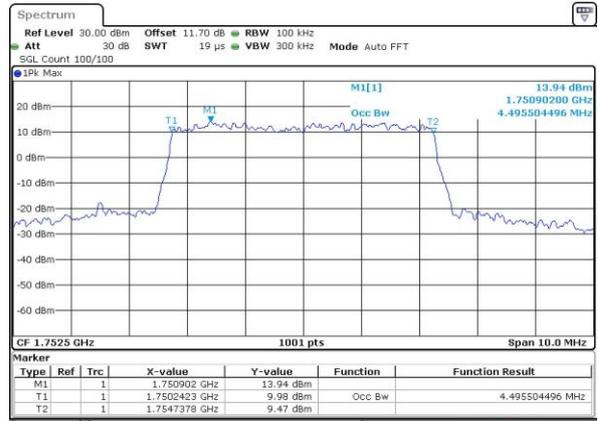
Date: 8 JAN 2017 20:50:08

Highest Channel / 5MHz / QPSK



Date: 8 JAN 2017 20:52:28

Highest Channel / 5MHz / 16QAM

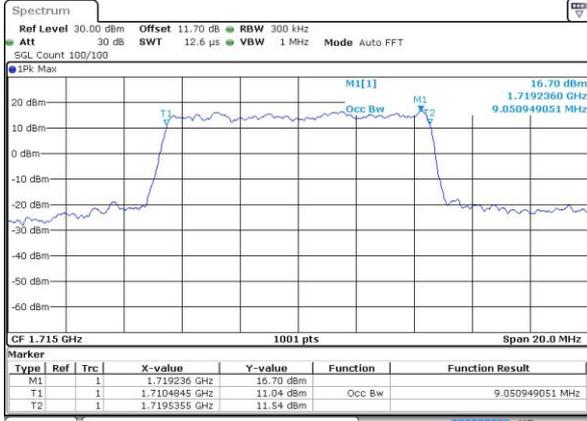


Date: 8 JAN 2017 20:52:39



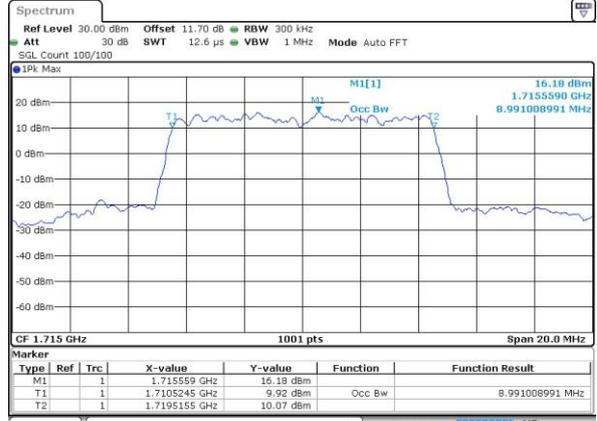
LTE Band 4

Lowest Channel / 10MHz / QPSK



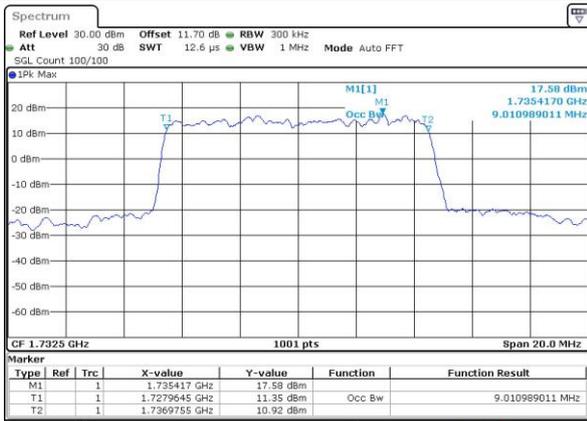
Date: 8 JAN 2017 20:59:35

Lowest Channel / 10MHz / 16QAM



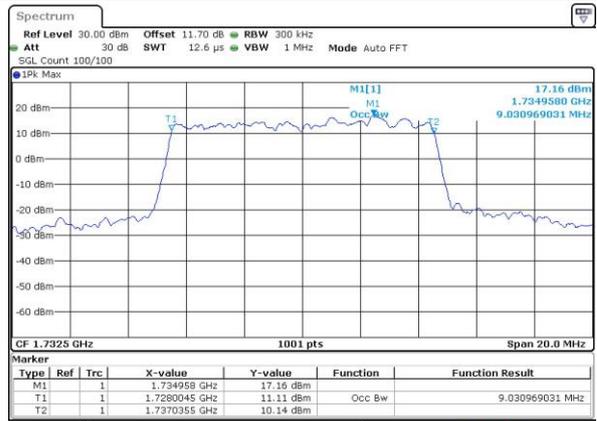
Date: 8 JAN 2017 20:59:46

Middle Channel / 10MHz / QPSK



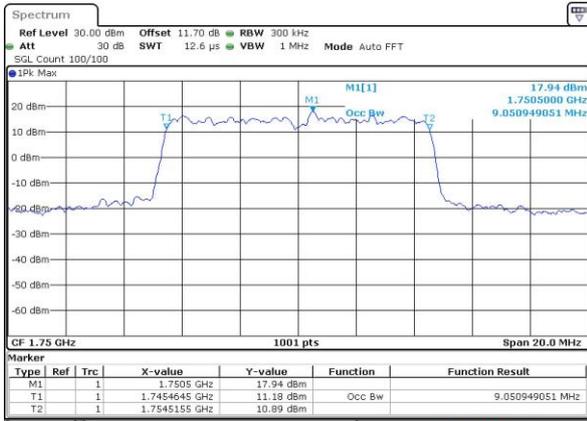
Date: 8 JAN 2017 21:18:39

Middle Channel / 10MHz / 16QAM



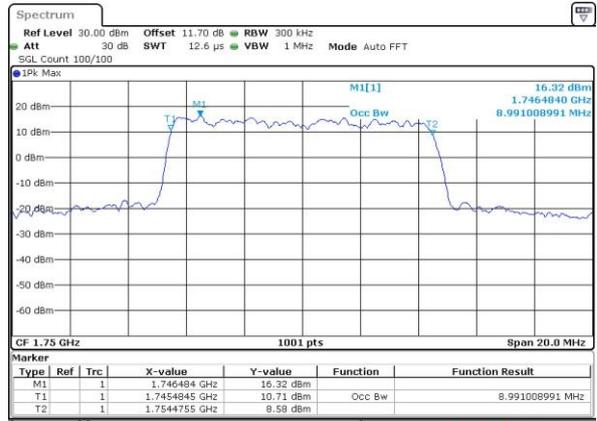
Date: 8 JAN 2017 21:18:49

Highest Channel / 10MHz / QPSK



Date: 8 JAN 2017 21:21:09

Highest Channel / 10MHz / 16QAM

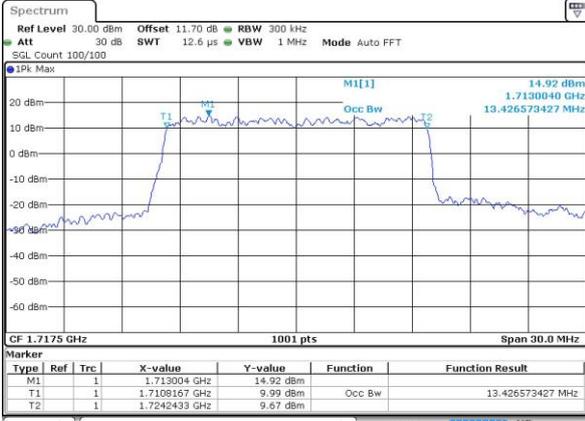


Date: 8 JAN 2017 21:21:19



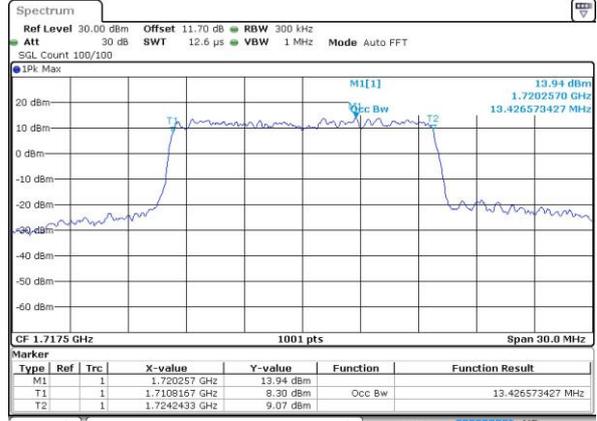
LTE Band 4

Lowest Channel / 15MHz / QPSK



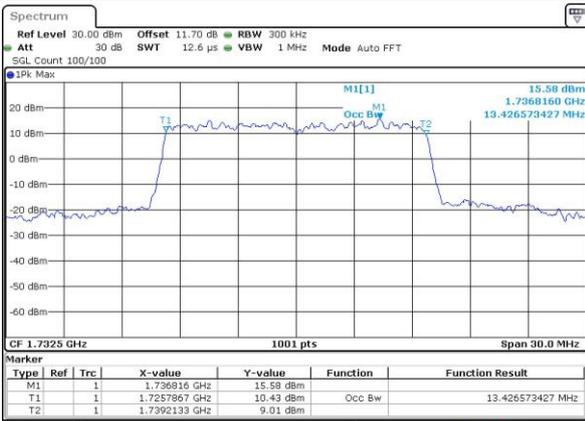
Date: 8 JAN 2017 21:28:15

Lowest Channel / 15MHz / 16QAM



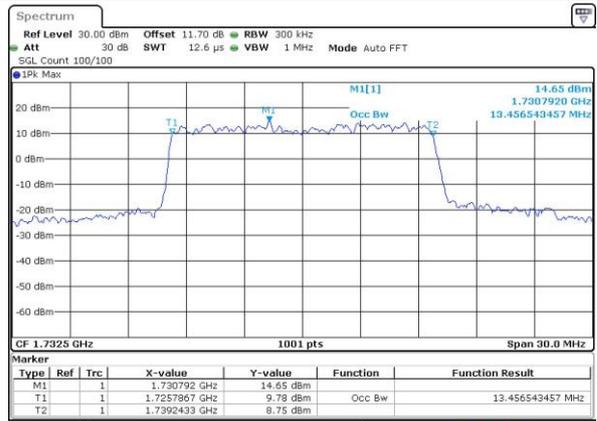
Date: 8 JAN 2017 21:28:26

Middle Channel / 15MHz / QPSK



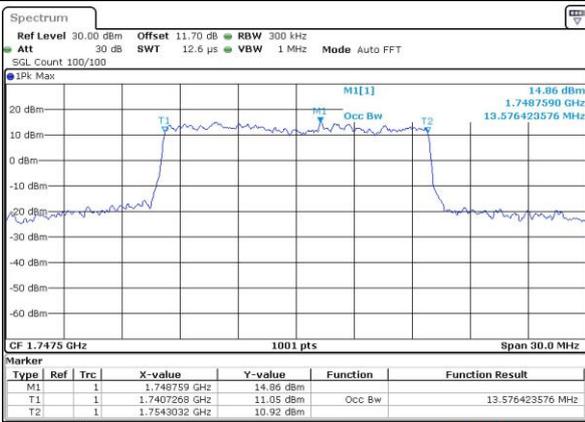
Date: 8 JAN 2017 22:00:02

Middle Channel / 15MHz / 16QAM



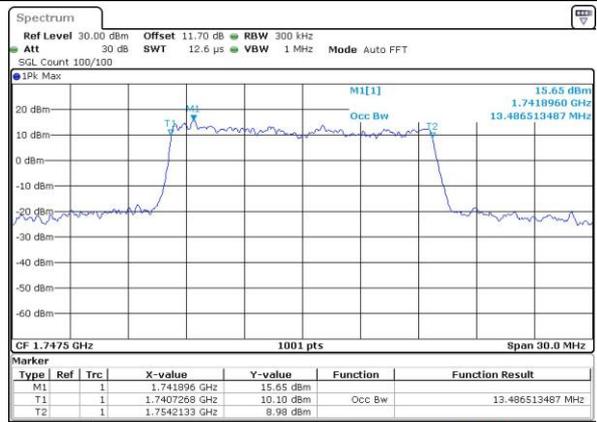
Date: 8 JAN 2017 22:00:13

Highest Channel / 15MHz / QPSK



Date: 8 JAN 2017 22:02:33

Highest Channel / 15MHz / 16QAM

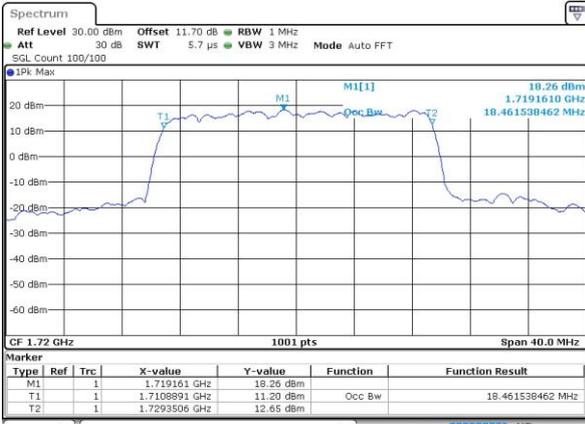


Date: 8 JAN 2017 22:02:43



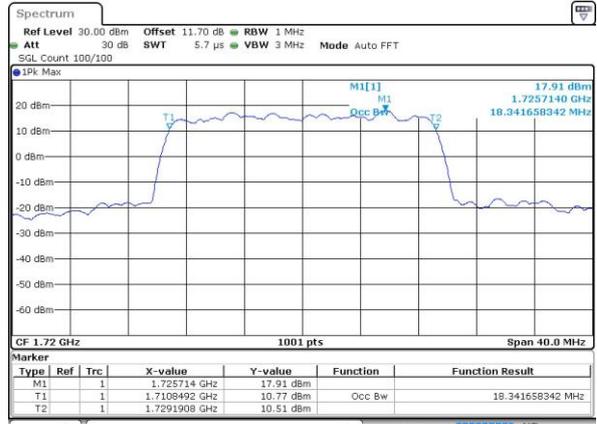
LTE Band 4

Lowest Channel / 20MHz / QPSK



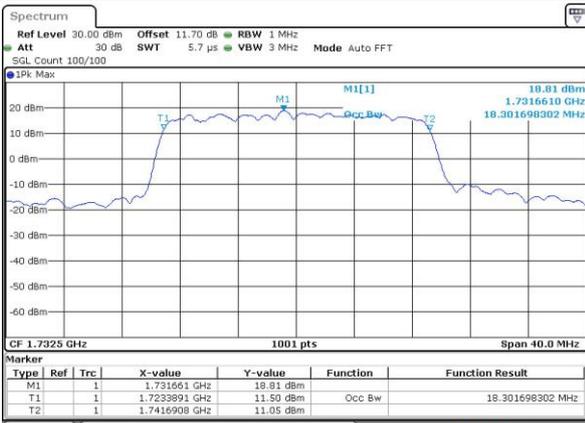
Date: 8 JAN 2017 22:09:40

Lowest Channel / 20MHz / 16QAM



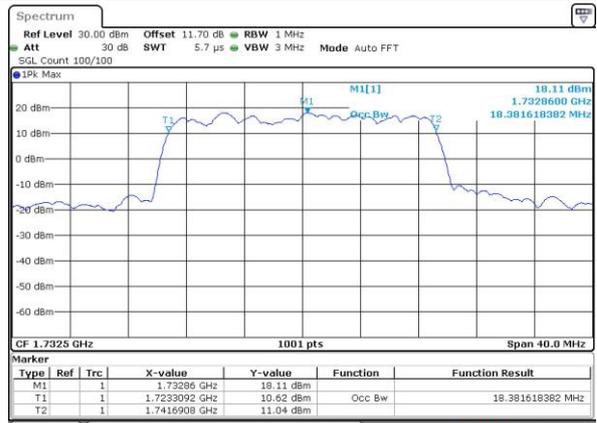
Date: 8 JAN 2017 22:09:50

Middle Channel / 20MHz / QPSK



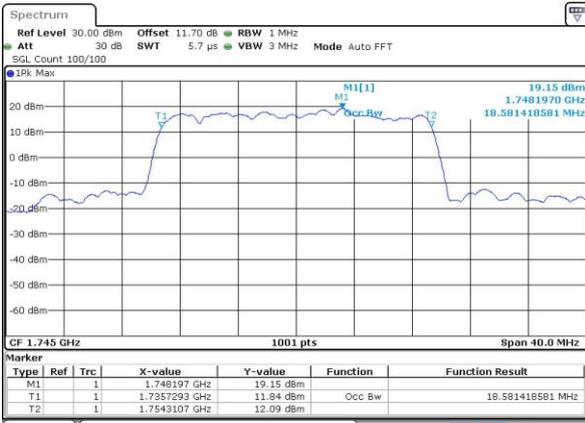
Date: 8 JAN 2017 22:16:47

Middle Channel / 20MHz / 16QAM



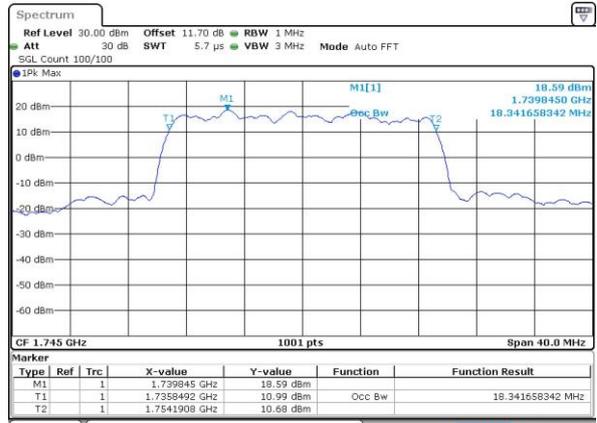
Date: 8 JAN 2017 22:16:57

Highest Channel / 20MHz / QPSK



Date: 8 JAN 2017 22:19:17

Highest Channel / 20MHz / 16QAM



Date: 8 JAN 2017 22:19:27



Conducted Band Edge

