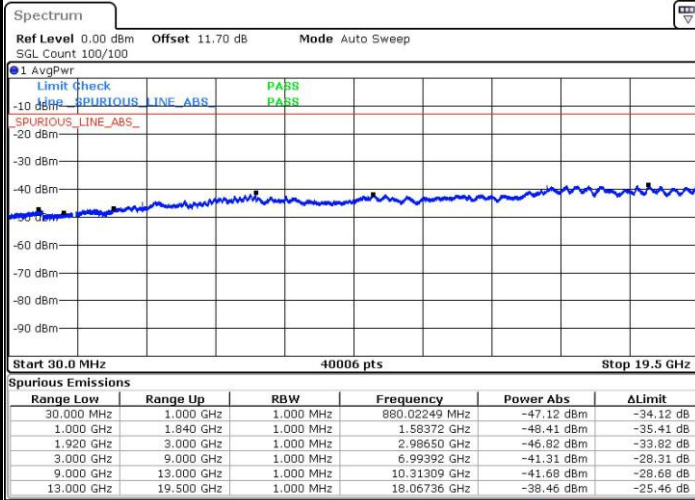




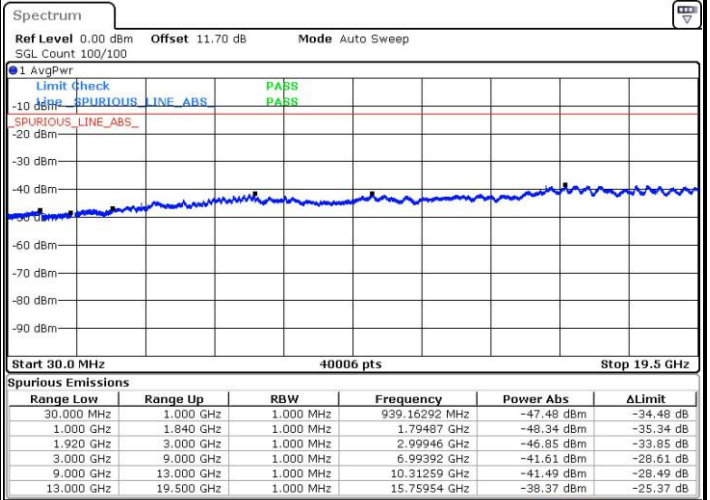
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 31.JAN.2017 05:54:49

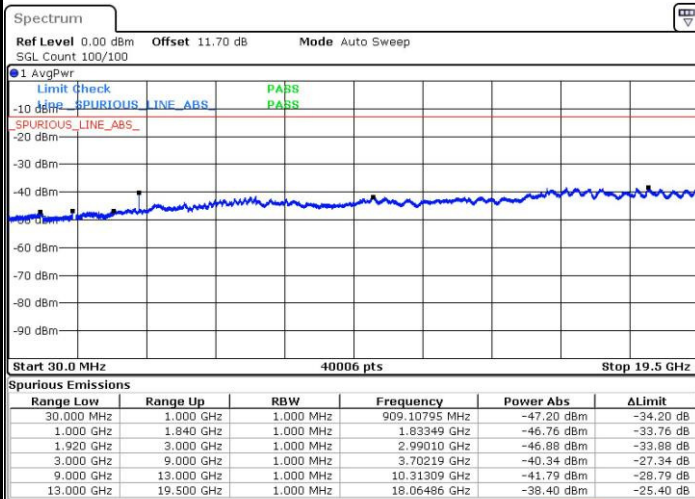
Highest Channel / 16QAM



Date: 31.JAN.2017 05:55:49

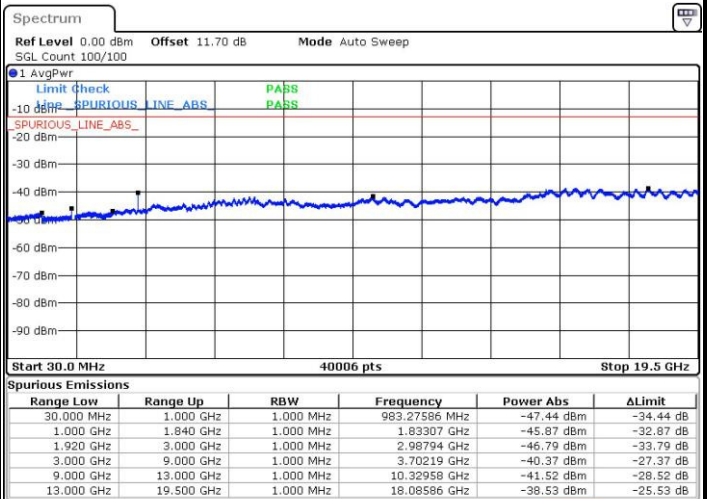
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 31.JAN.2017 06:02:23

Lowest Channel / 16QAM



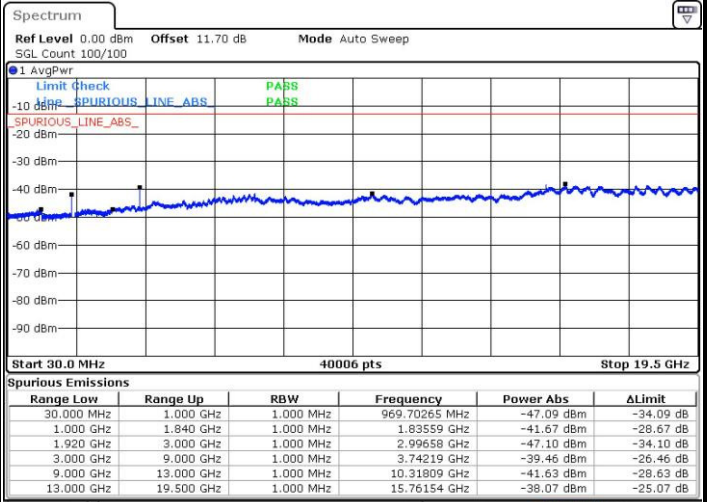
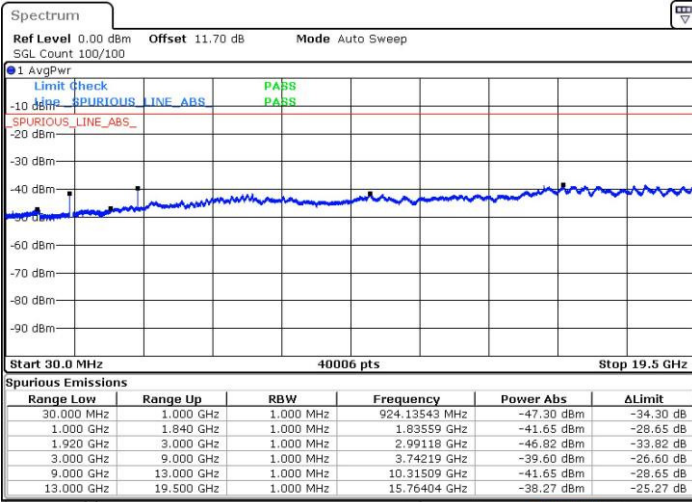
Date: 31.JAN.2017 06:03:23



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

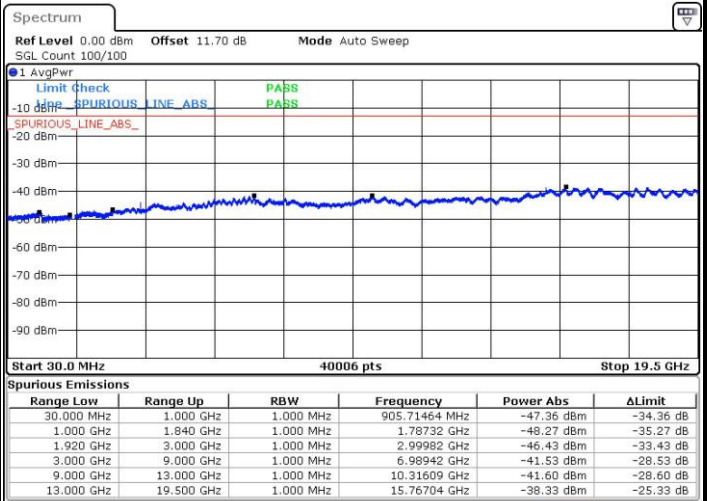
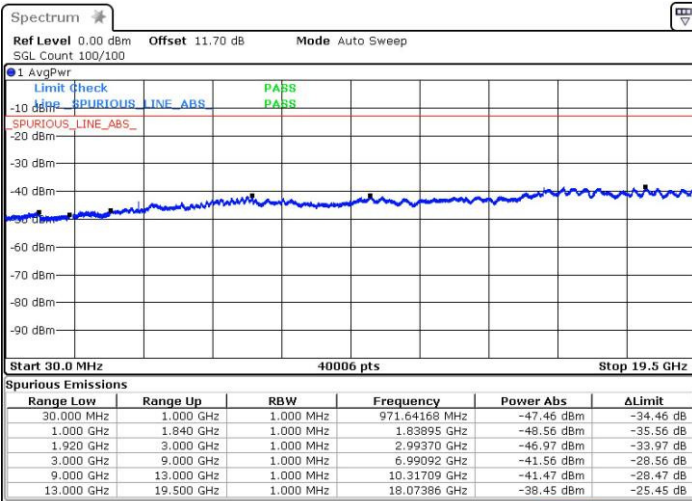


Date: 31.JAN.2017 06:05:05

Date: 31.JAN.2017 06:06:07

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 31.JAN.2017 06:12:43

Date: 31.JAN.2017 06:13:47



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	0.0099	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0091	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0091	
-30	Normal Voltage	0.0102	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 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	4.46	4.9	4.84	5.42	PASS
Middle CH	4.64	4.81	4.61	5.33	
Highest CH	4.43	4.93	4.67	5.42	



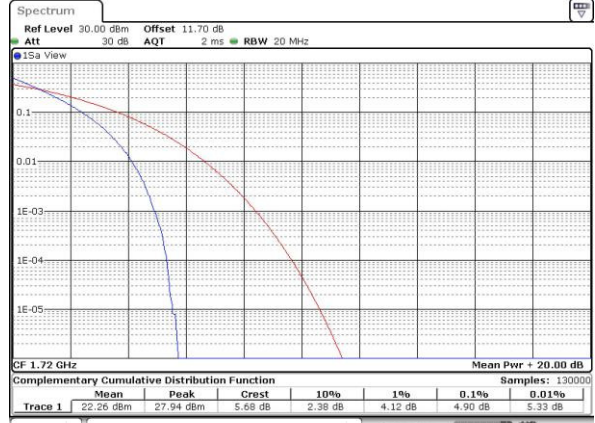
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 31 JAN 2017 09:09:42

Lowest Channel / Full RB



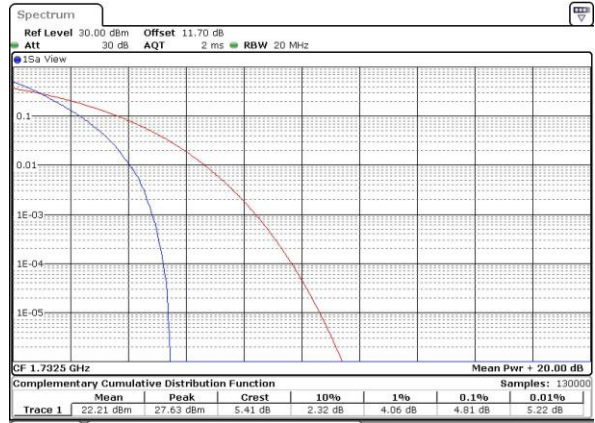
Date: 31 JAN 2017 09:09:52

Middle Channel / 1RB



Date: 31 JAN 2017 09:10:02

Middle Channel / Full RB



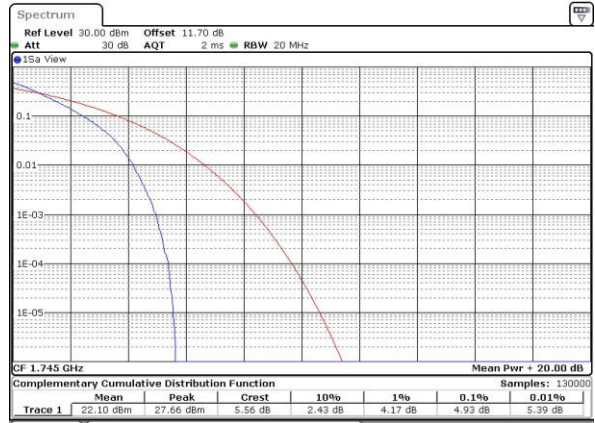
Date: 31 JAN 2017 09:10:12

Highest Channel / 1RB



Date: 31 JAN 2017 09:10:22

Highest Channel / Full RB



Date: 31 JAN 2017 09:10:33



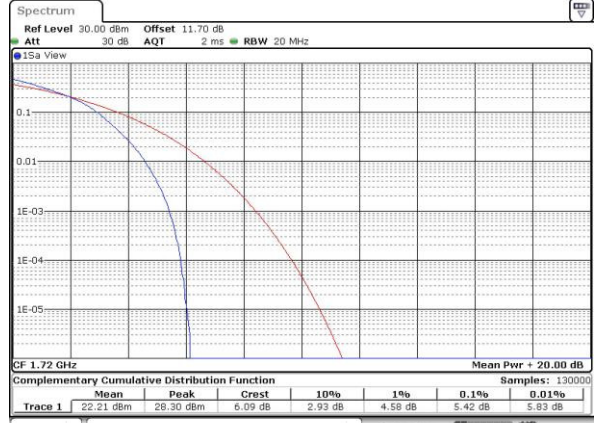
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



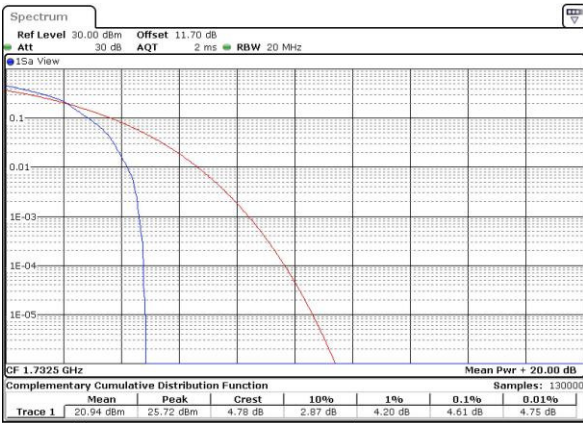
Date: 31 JAN 2017 09 08 43

Lowest Channel / Full RB



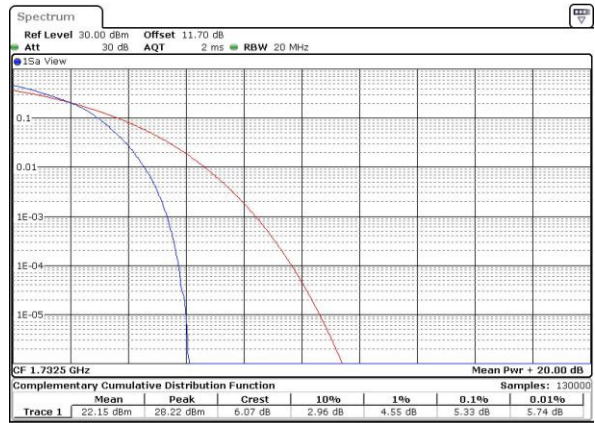
Date: 31 JAN 2017 09 08 54

Middle Channel / 1RB



Date: 31 JAN 2017 09 09 04

Middle Channel / Full RB



Date: 31 JAN 2017 09 09 14

Highest Channel / 1RB



Date: 31 JAN 2017 09 09 23

Highest Channel / Full RB



Date: 31 JAN 2017 09 09 33



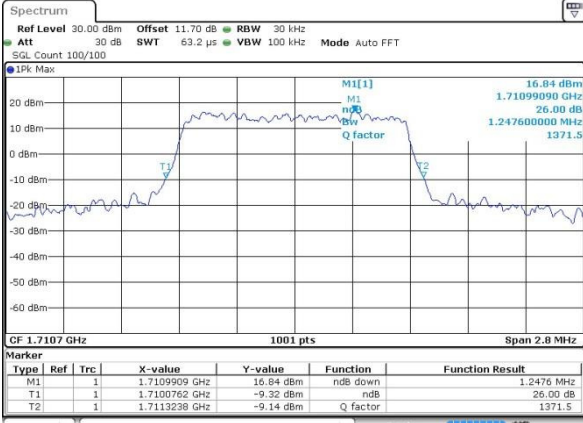
26dB Bandwidth

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	1.26	3.00	2.98	4.94	5.07	9.79	9.59	14.57	14.57	20.18	20.22
Middle CH	1.26	1.29	2.98	3.01	4.94	5.04	9.81	9.65	14.69	14.33	20.14	20.42
Highest CH	1.25	1.26	2.99	2.97	5.05	4.93	9.89	9.83	14.63	14.69	20.18	20.18



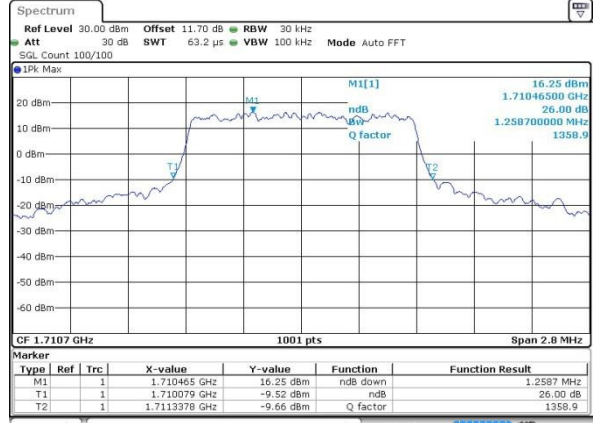
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



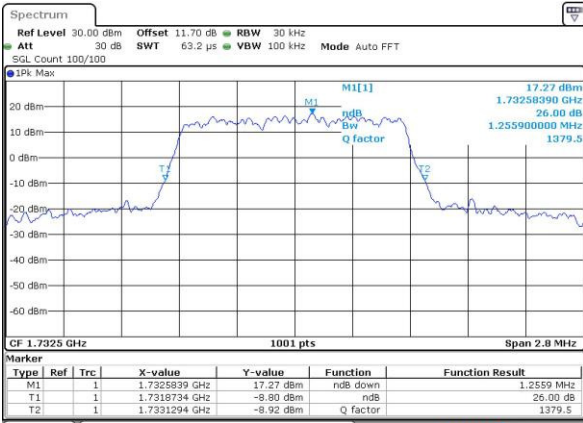
Date: 31 JAN 2017 08:50:34

Lowest Channel / 1.4MHz / 16QAM



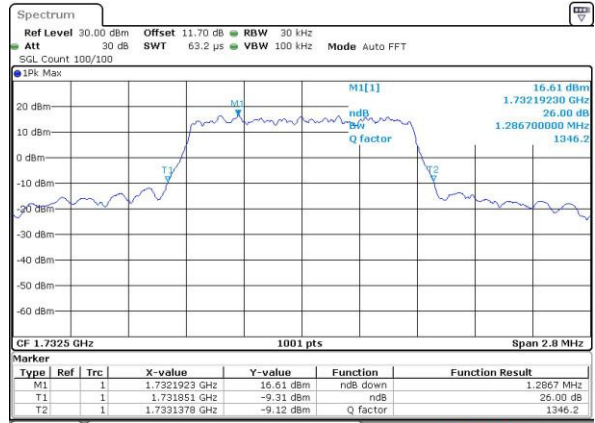
Date: 31 JAN 2017 08:50:44

Middle Channel / 1.4MHz / QPSK



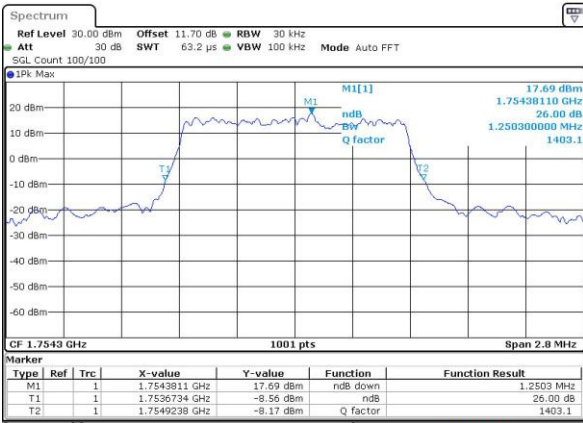
Date: 31 JAN 2017 08:58:23

Middle Channel / 1.4MHz / 16QAM



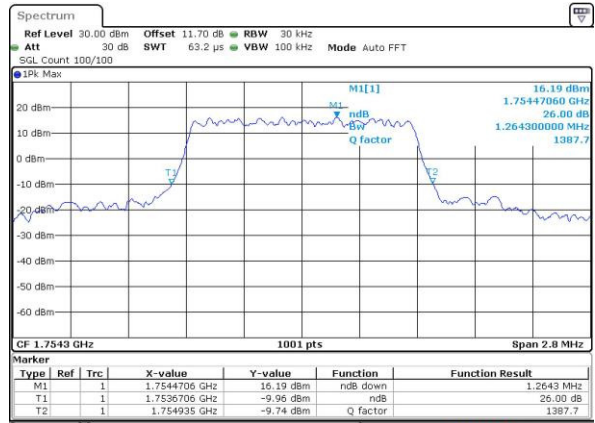
Date: 31 JAN 2017 08:58:34

Highest Channel / 1.4MHz / QPSK



Date: 31 JAN 2017 09:01:14

Highest Channel / 1.4MHz / 16QAM

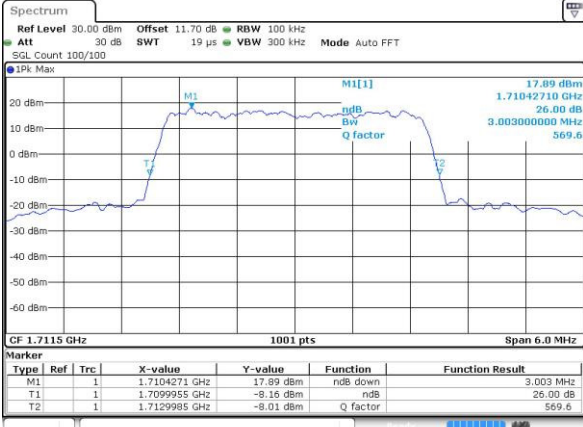


Date: 31 JAN 2017 09:01:25



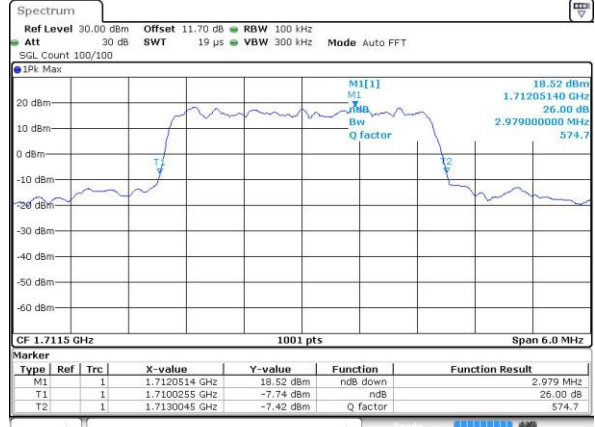
LTE Band 4

Lowest Channel / 3MHz / QPSK



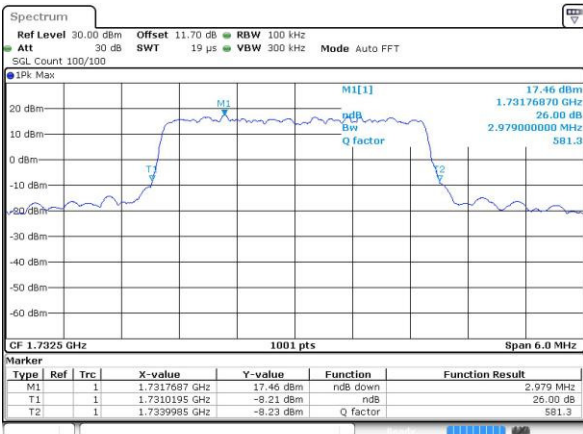
Date: 31 JAN 2017 07:18:36

Lowest Channel / 3MHz / 16QAM



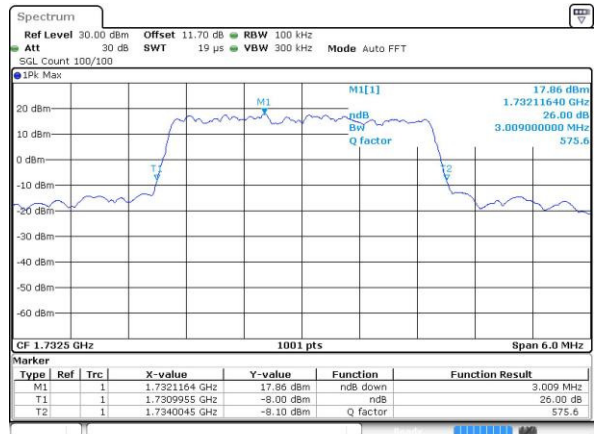
Date: 31 JAN 2017 07:18:47

Middle Channel / 3MHz / QPSK



Date: 31 JAN 2017 07:26:23

Middle Channel / 3MHz / 16QAM



Date: 31 JAN 2017 07:26:34

Highest Channel / 3MHz / QPSK



Date: 31 JAN 2017 07:29:14

Highest Channel / 3MHz / 16QAM

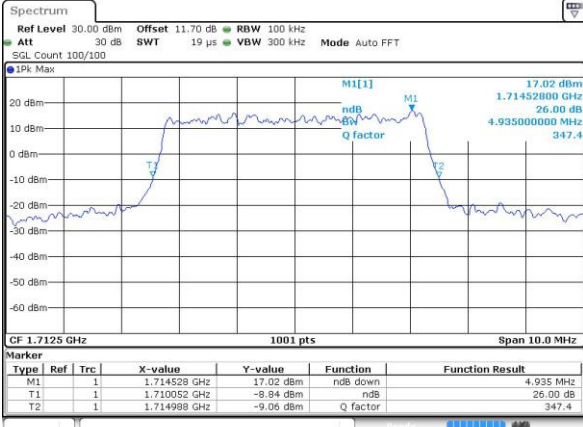


Date: 31 JAN 2017 07:29:25



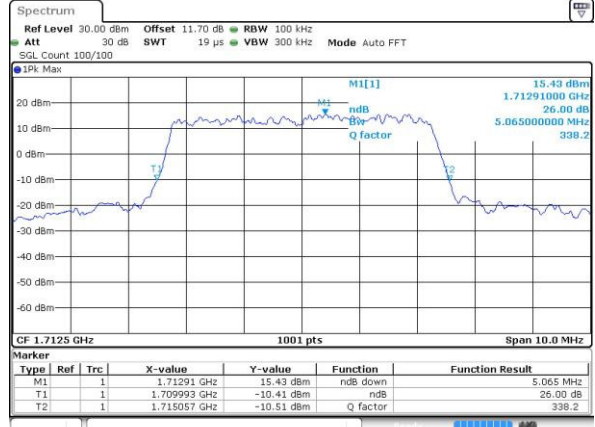
LTE Band 4

Lowest Channel / 5MHz / QPSK



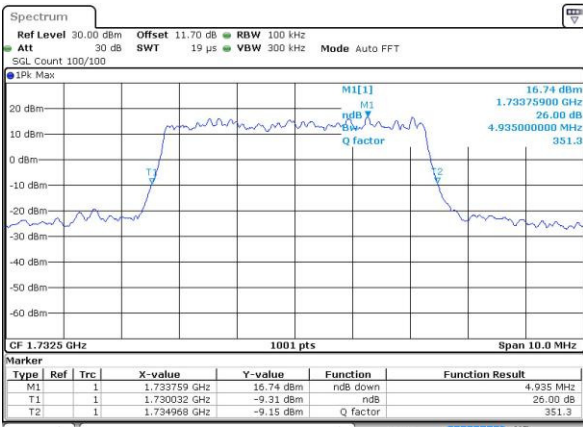
Date: 31 JAN 2017 07:37:02

Lowest Channel / 5MHz / 16QAM



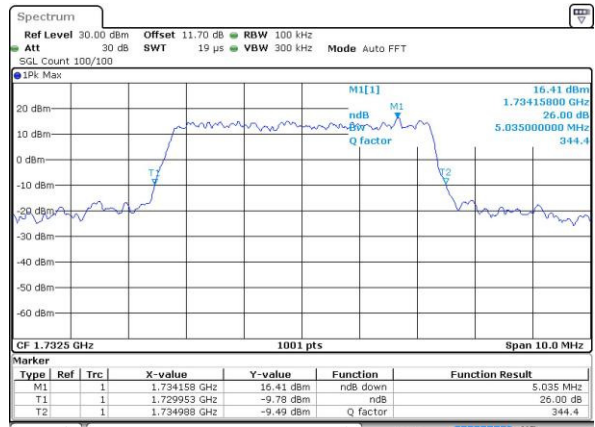
Date: 31 JAN 2017 07:37:13

Middle Channel / 5MHz / QPSK



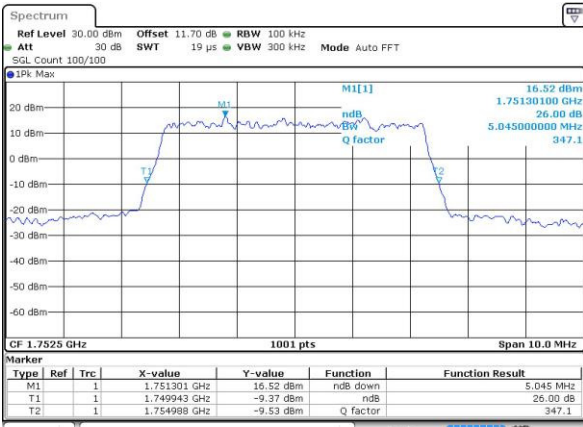
Date: 31 JAN 2017 07:44:47

Middle Channel / 5MHz / 16QAM



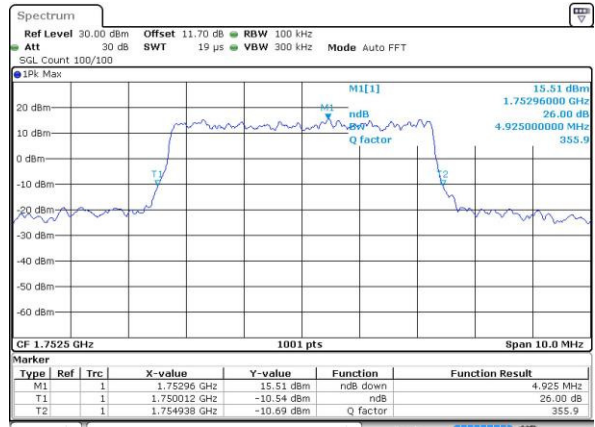
Date: 31 JAN 2017 07:44:58

Highest Channel / 5MHz / QPSK



Date: 31 JAN 2017 07:47:39

Highest Channel / 5MHz / 16QAM

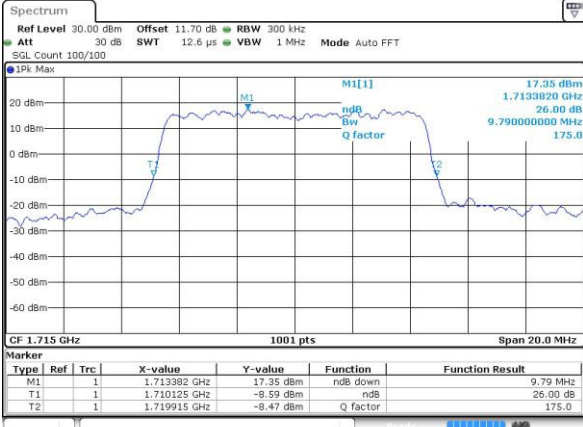


Date: 31 JAN 2017 07:47:49



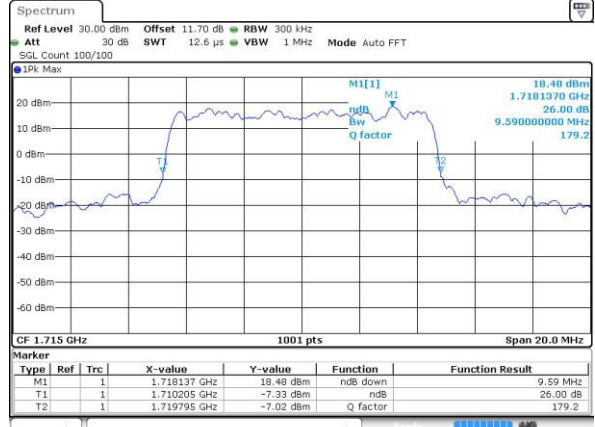
LTE Band 4

Lowest Channel / 10MHz / QPSK



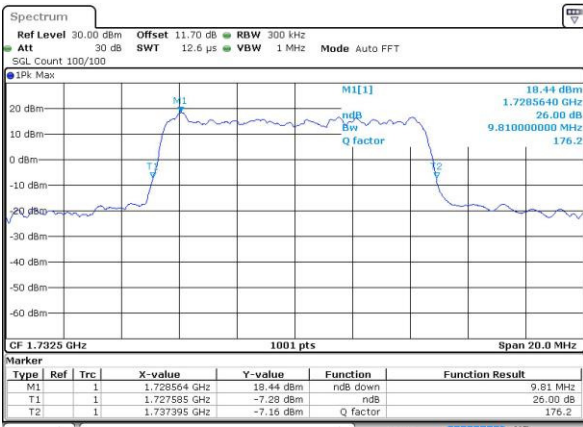
Date: 31 JAN 2017 07:55:28

Lowest Channel / 10MHz / 16QAM



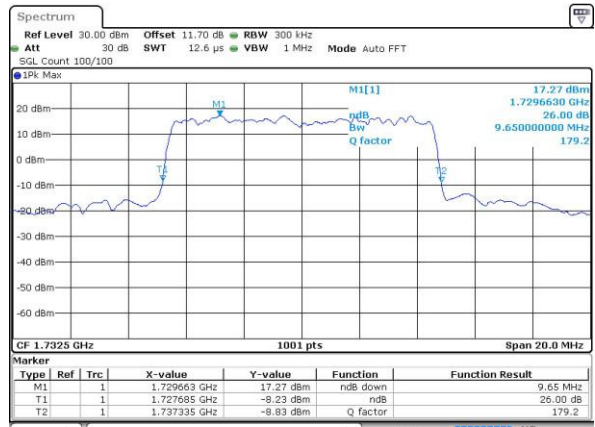
Date: 31 JAN 2017 07:55:38

Middle Channel / 10MHz / QPSK



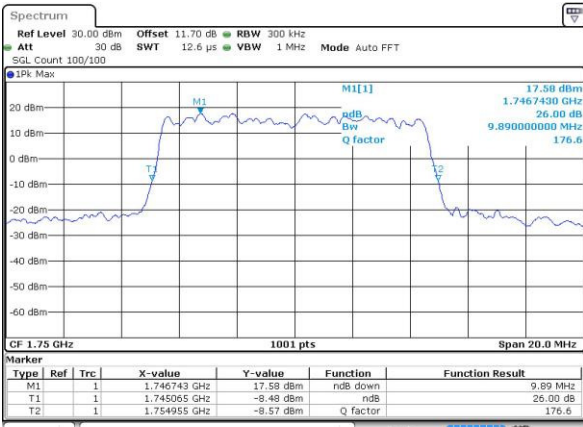
Date: 31 JAN 2017 08:03:12

Middle Channel / 10MHz / 16QAM



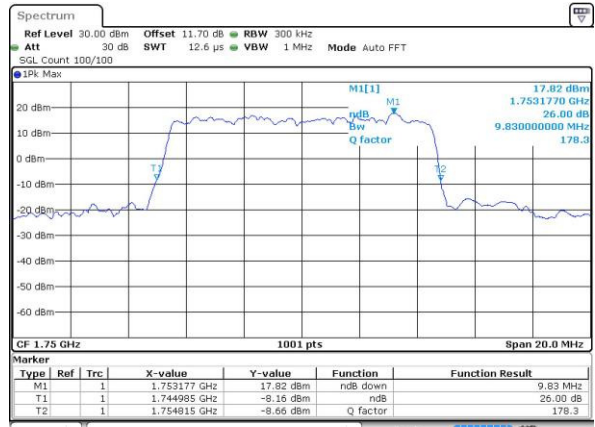
Date: 31 JAN 2017 08:03:23

Highest Channel / 10MHz / QPSK



Date: 31 JAN 2017 08:06:03

Highest Channel / 10MHz / 16QAM

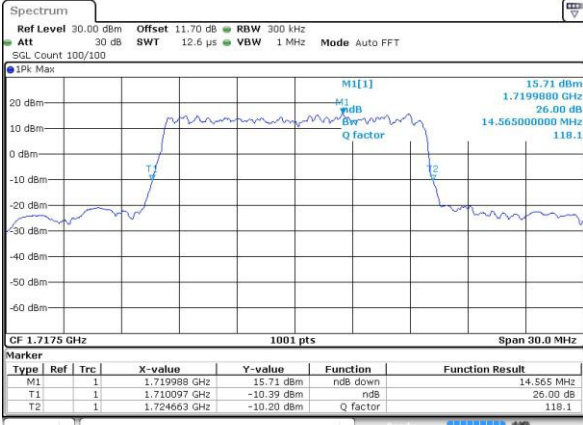


Date: 31 JAN 2017 08:06:14



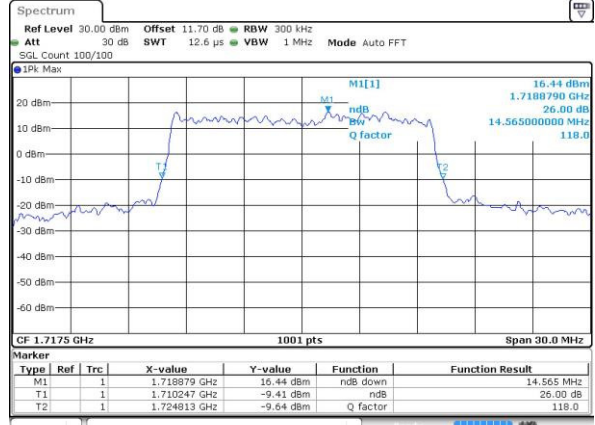
LTE Band 4

Lowest Channel / 15MHz / QPSK



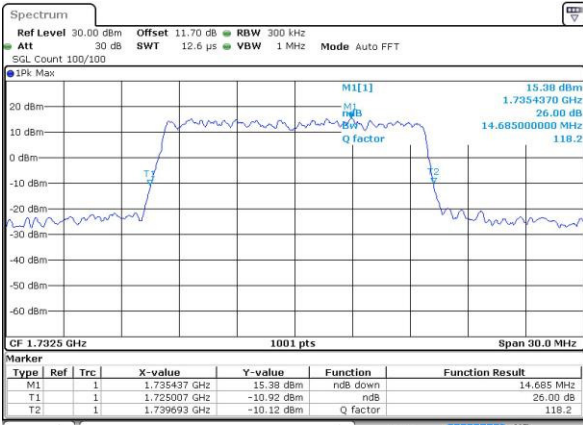
Date: 31 JAN 2017 08:13:50

Lowest Channel / 15MHz / 16QAM



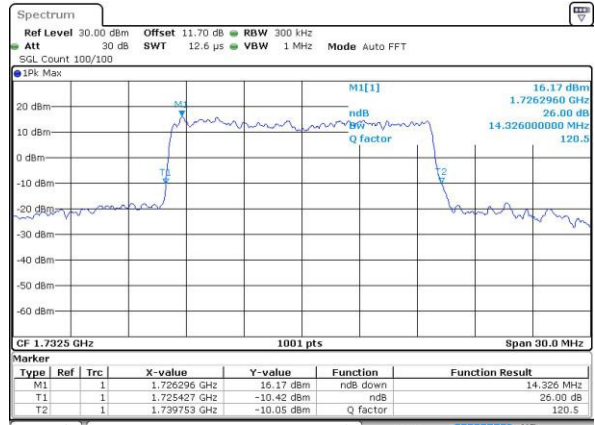
Date: 31 JAN 2017 08:14:01

Middle Channel / 15MHz / QPSK



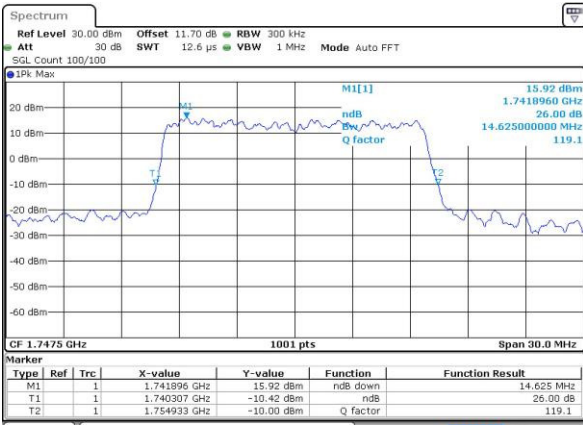
Date: 31 JAN 2017 08:21:34

Middle Channel / 15MHz / 16QAM



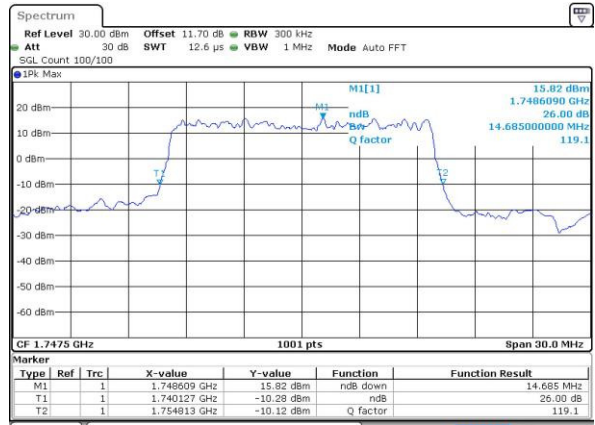
Date: 31 JAN 2017 08:21:44

Highest Channel / 15MHz / QPSK



Date: 31 JAN 2017 08:24:24

Highest Channel / 15MHz / 16QAM

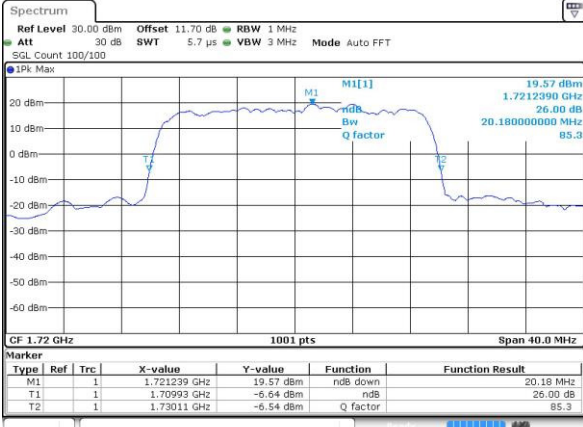


Date: 31 JAN 2017 08:24:34



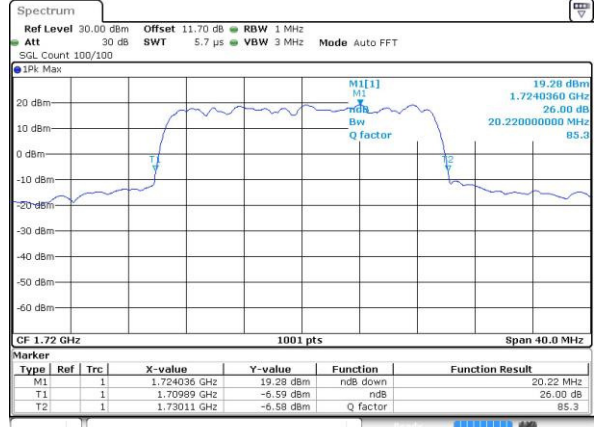
LTE Band 4

Lowest Channel / 20MHz / QPSK



Date: 31 JAN 2017 08:32:08

Lowest Channel / 20MHz / 16QAM



Date: 31 JAN 2017 08:32:18

Middle Channel / 20MHz / QPSK



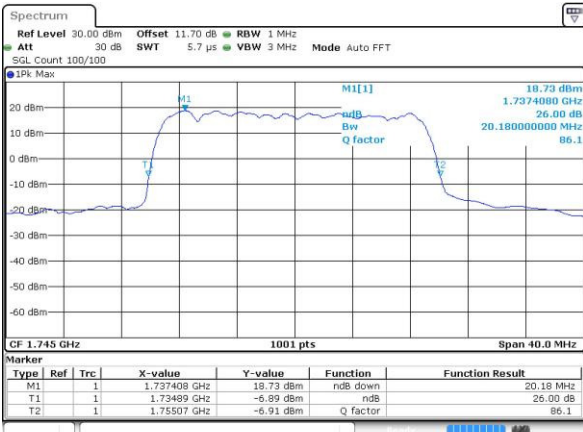
Date: 31 JAN 2017 08:39:53

Middle Channel / 20MHz / 16QAM



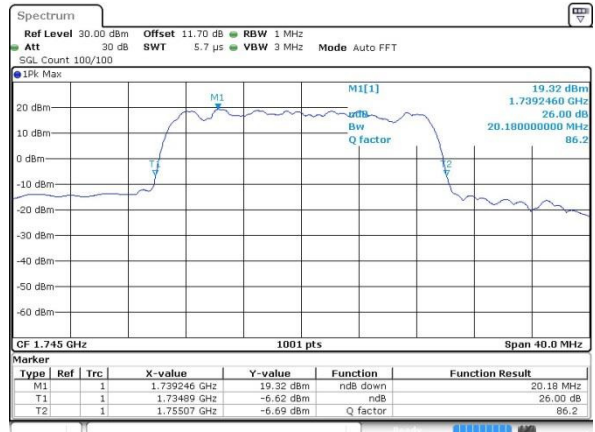
Date: 31 JAN 2017 08:40:04

Highest Channel / 20MHz / QPSK



Date: 31 JAN 2017 08:42:46

Highest Channel / 20MHz / 16QAM



Date: 31 JAN 2017 08:42:56



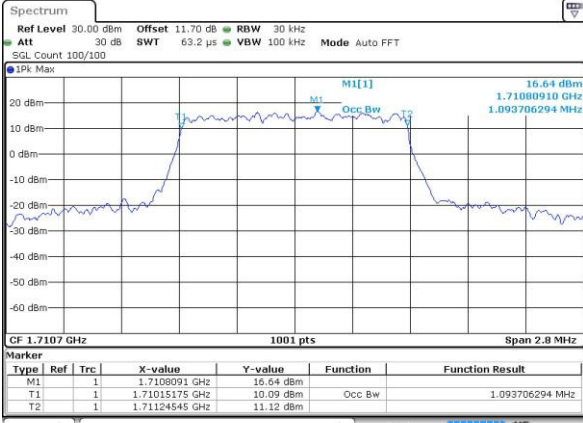
Occupied Bandwidth

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	1.09	2.74	2.72	4.5	4.5	9.07	9.01	13.4	13.46	18.3	18.42
Middle CH	1.09	1.09	2.73	2.72	4.5	4.51	9.05	9.05	13.52	13.46	18.34	18.38
Highest CH	1.09	1.09	2.73	2.72	4.5	4.5	8.97	8.95	13.52	13.46	18.26	18.38



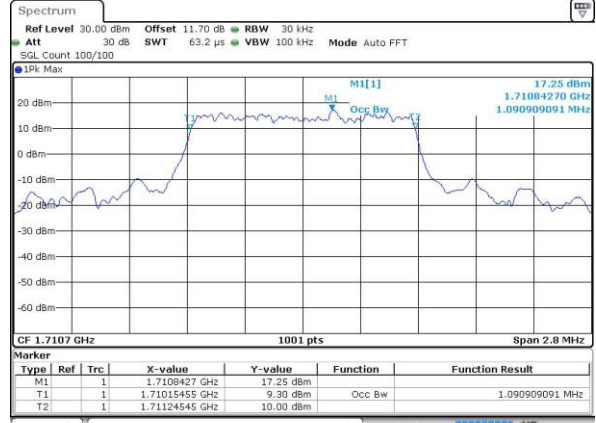
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



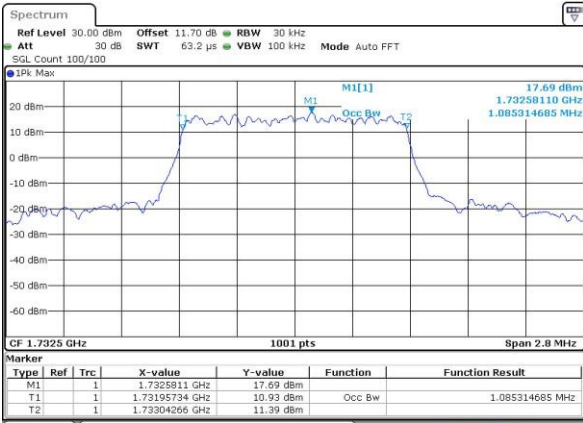
Date: 31 JAN 2017 08:50:12

Lowest Channel / 1.4MHz / 16QAM



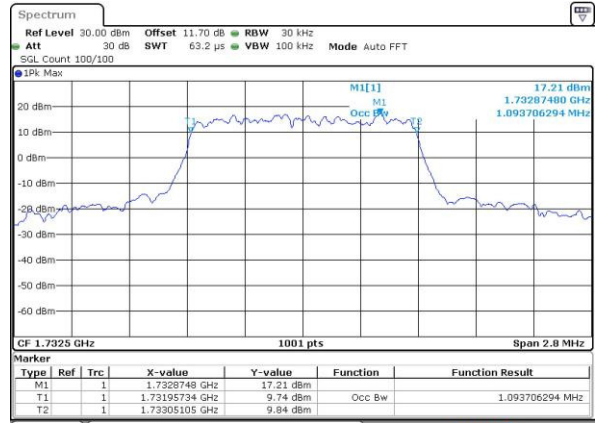
Date: 31 JAN 2017 08:50:23

Middle Channel / 1.4MHz / QPSK



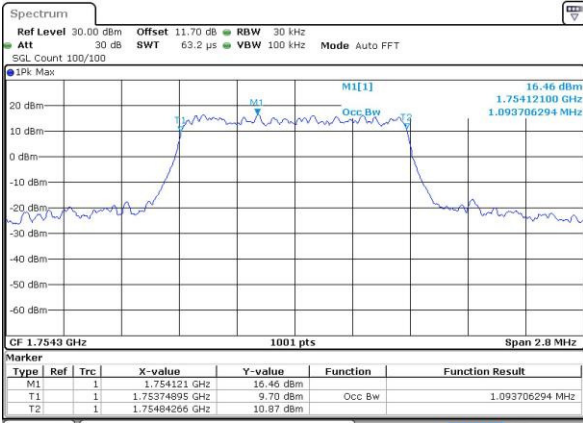
Date: 31 JAN 2017 08:58:02

Middle Channel / 1.4MHz / 16QAM



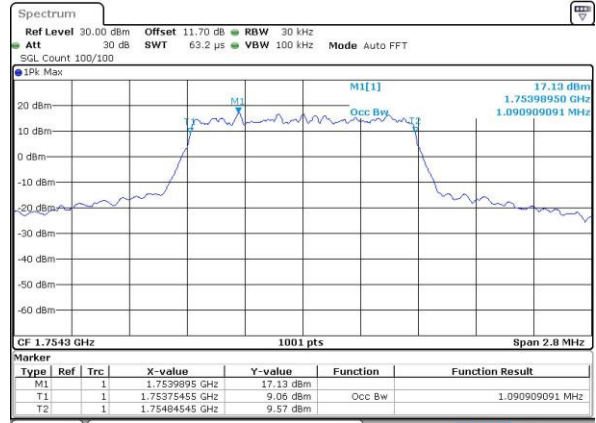
Date: 31 JAN 2017 08:58:13

Highest Channel / 1.4MHz / QPSK



Date: 31 JAN 2017 09:00:53

Highest Channel / 1.4MHz / 16QAM

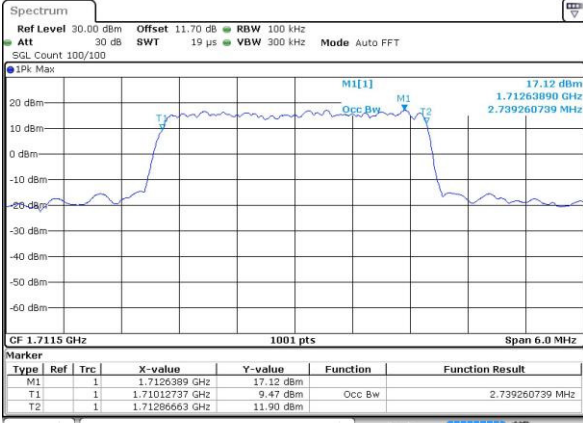


Date: 31 JAN 2017 09:01:03



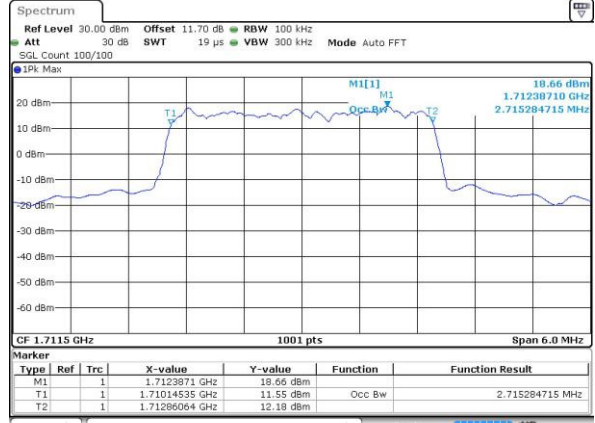
LTE Band 4

Lowest Channel / 3MHz / QPSK



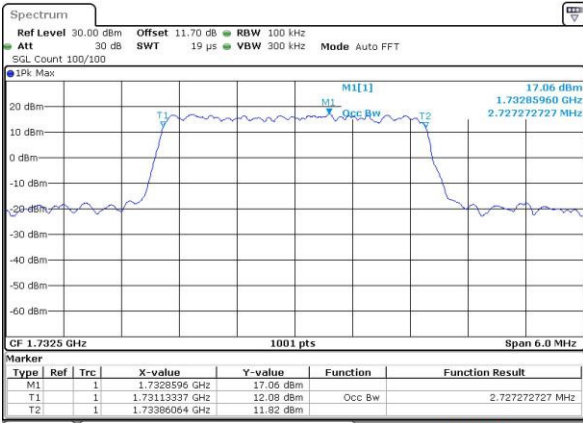
Date: 31 JAN 2017 07:18:15

Lowest Channel / 3MHz / 16QAM



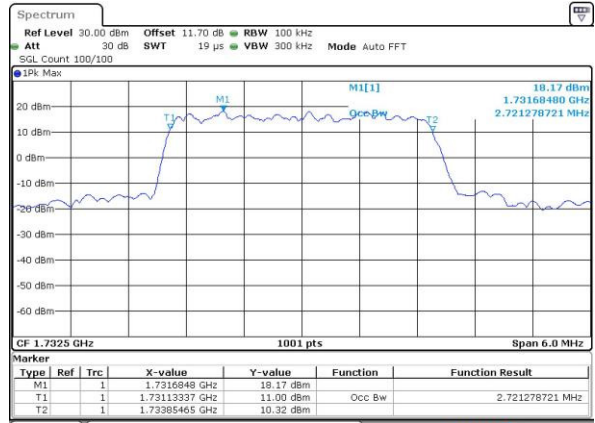
Date: 31 JAN 2017 07:18:25

Middle Channel / 3MHz / QPSK



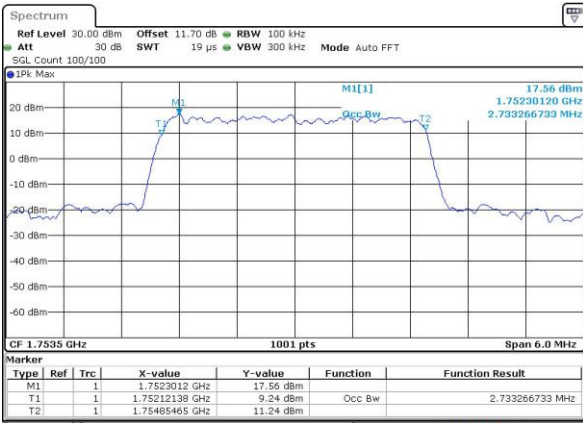
Date: 31 JAN 2017 07:26:02

Middle Channel / 3MHz / 16QAM



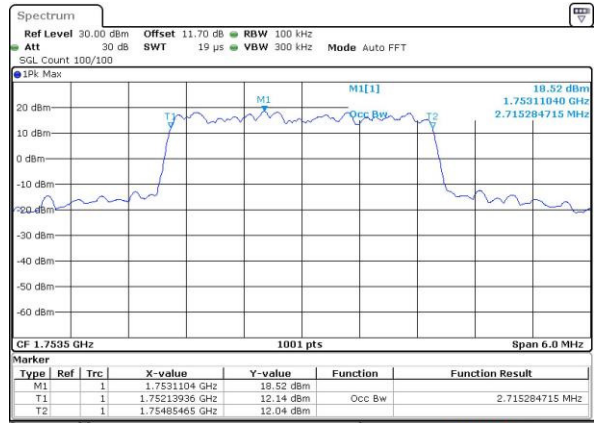
Date: 31 JAN 2017 07:26:12

Highest Channel / 3MHz / QPSK



Date: 31 JAN 2017 07:28:53

Highest Channel / 3MHz / 16QAM

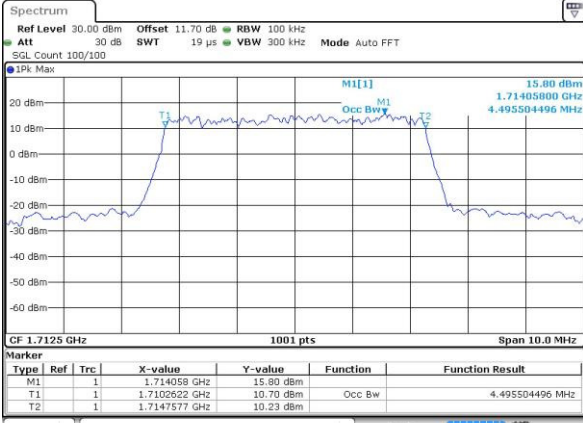


Date: 31 JAN 2017 07:29:03



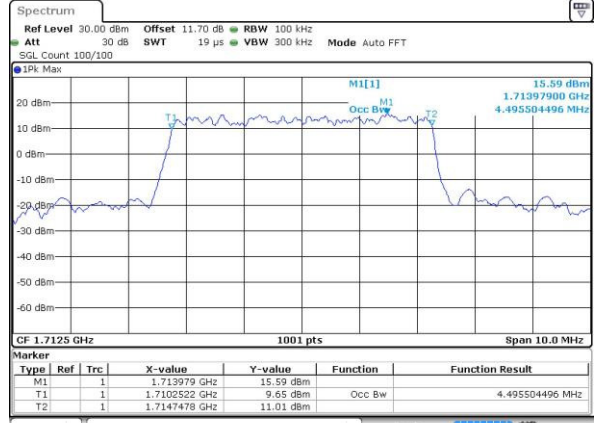
LTE Band 4

Lowest Channel / 5MHz / QPSK



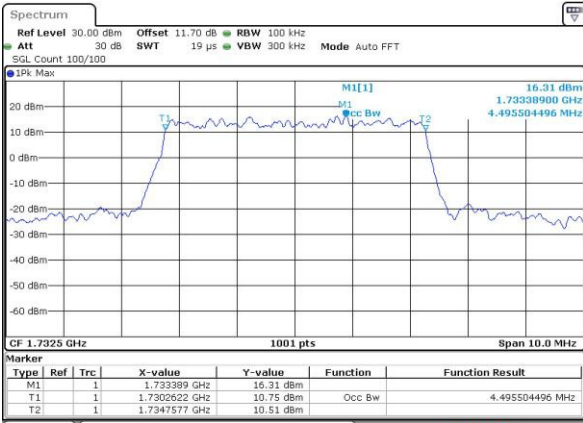
Date: 31 JAN 2017 07:36:41

Lowest Channel / 5MHz / 16QAM



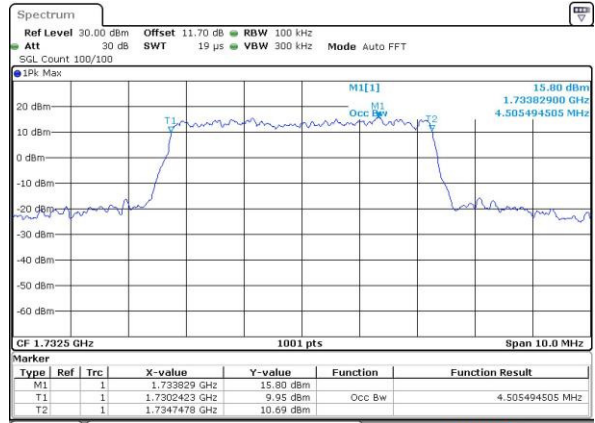
Date: 31 JAN 2017 07:36:52

Middle Channel / 5MHz / QPSK



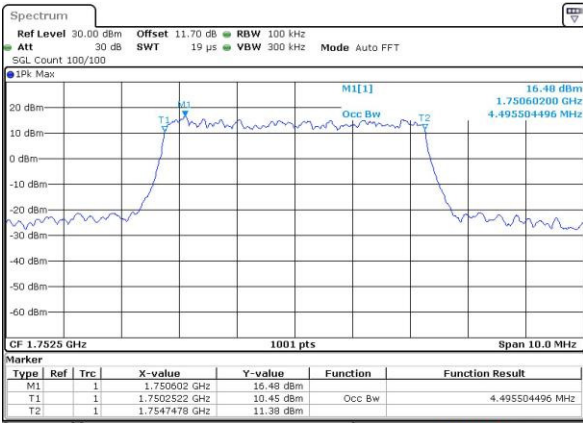
Date: 31 JAN 2017 07:44:26

Middle Channel / 5MHz / 16QAM



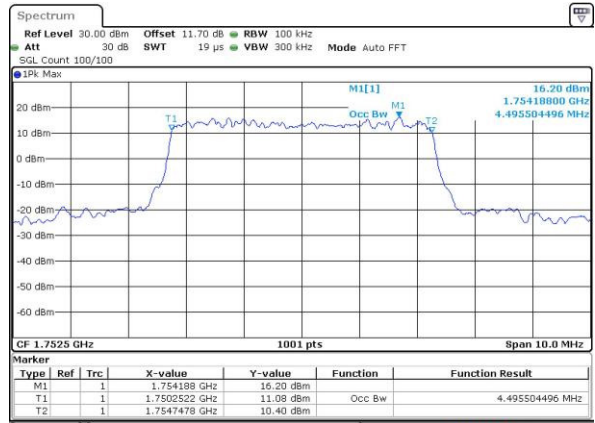
Date: 31 JAN 2017 07:44:37

Highest Channel / 5MHz / QPSK



Date: 31 JAN 2017 07:47:18

Highest Channel / 5MHz / 16QAM

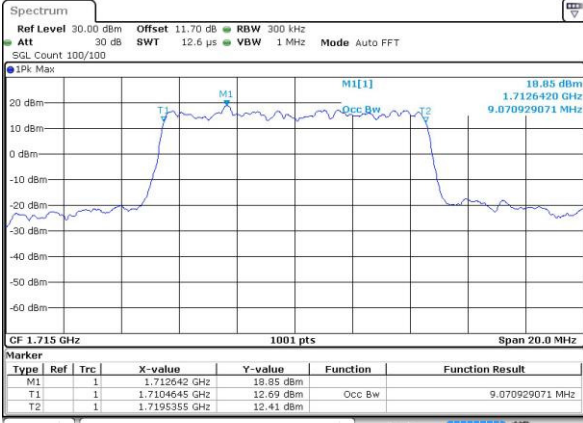


Date: 31 JAN 2017 07:47:28



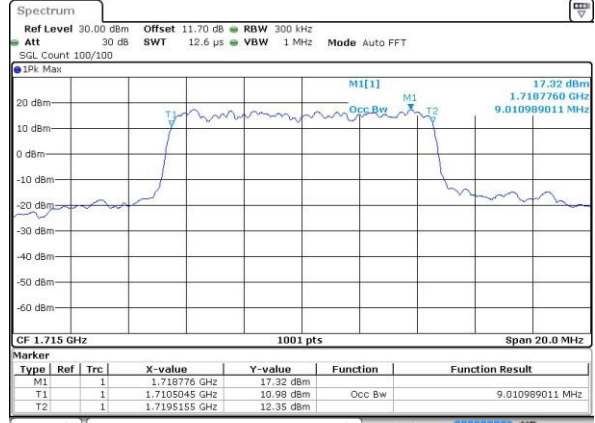
LTE Band 4

Lowest Channel / 10MHz / QPSK



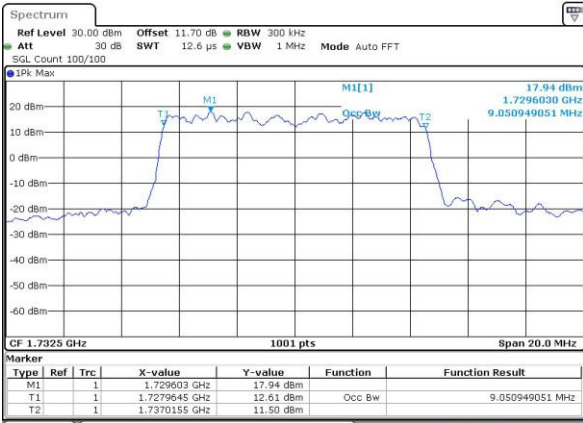
Date: 31 JAN 2017 07:55:07

Lowest Channel / 10MHz / 16QAM



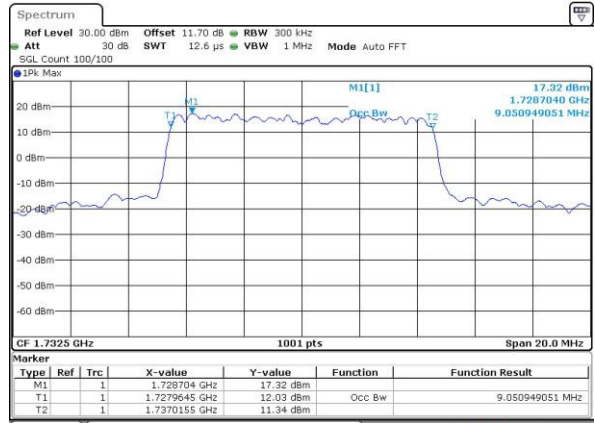
Date: 31 JAN 2017 07:55:18

Middle Channel / 10MHz / QPSK



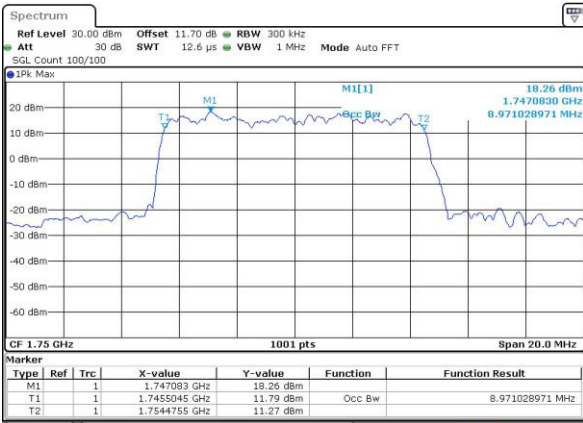
Date: 31 JAN 2017 08:02:51

Middle Channel / 10MHz / 16QAM



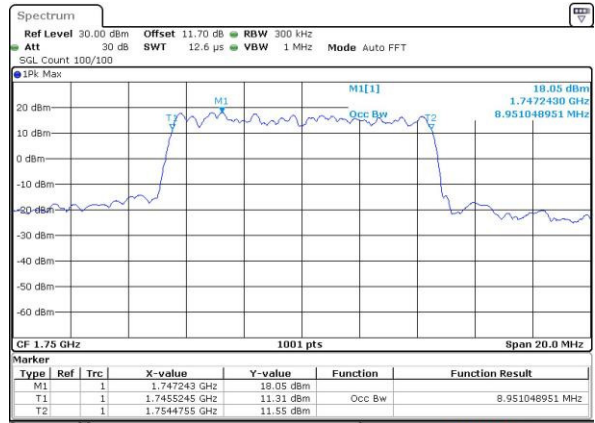
Date: 31 JAN 2017 08:03:01

Highest Channel / 10MHz / QPSK



Date: 31 JAN 2017 08:05:42

Highest Channel / 10MHz / 16QAM

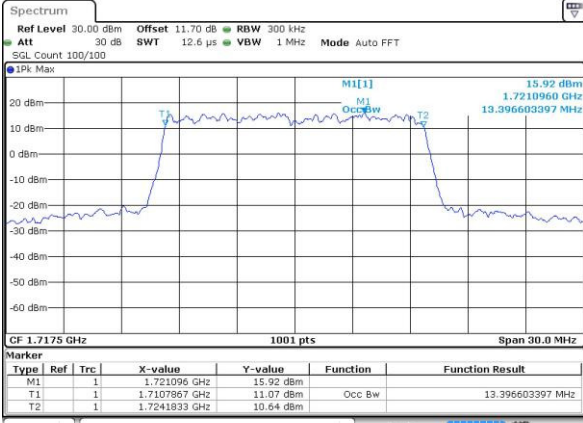


Date: 31 JAN 2017 08:05:53



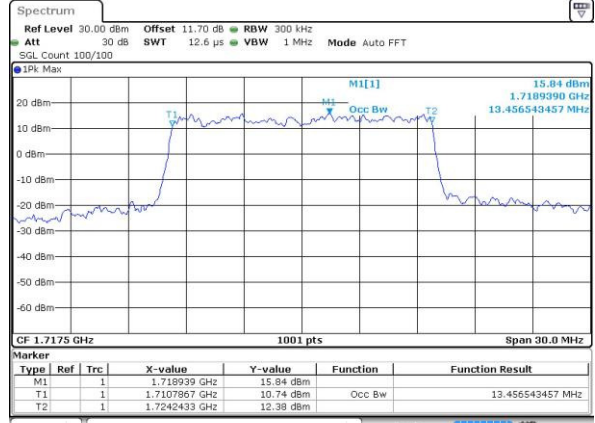
LTE Band 4

Lowest Channel / 15MHz / QPSK



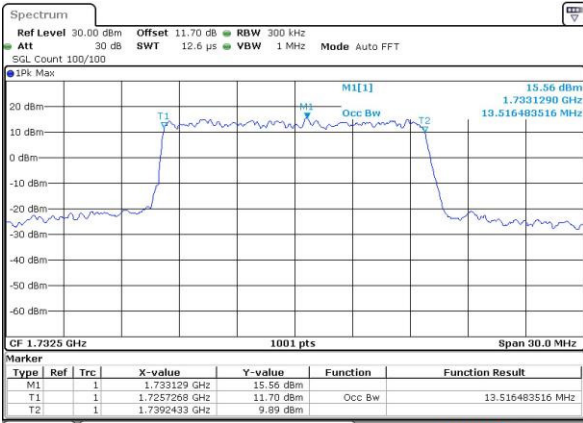
Date: 31 JAN 2017 08:13:29

Lowest Channel / 15MHz / 16QAM



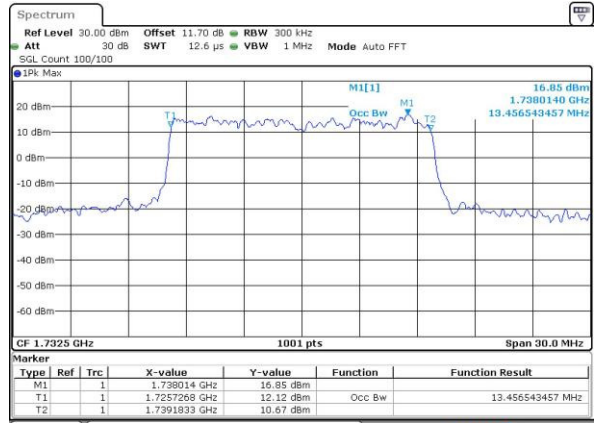
Date: 31 JAN 2017 08:13:40

Middle Channel / 15MHz / QPSK



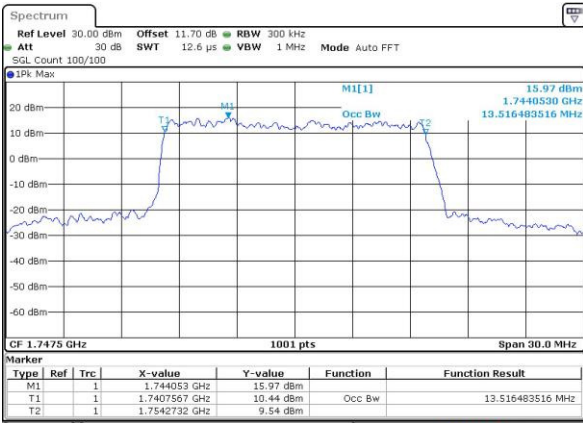
Date: 31 JAN 2017 08:21:12

Middle Channel / 15MHz / 16QAM



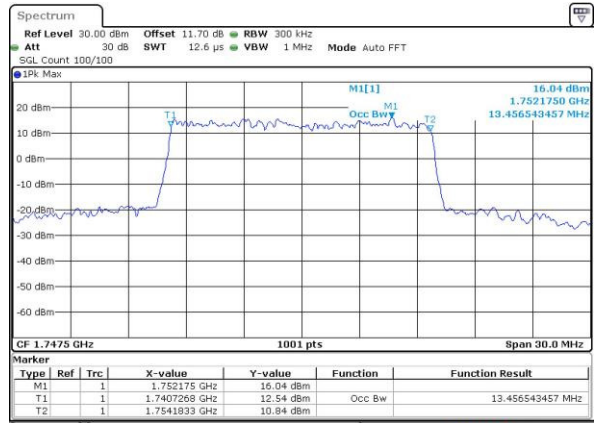
Date: 31 JAN 2017 08:21:23

Highest Channel / 15MHz / QPSK



Date: 31 JAN 2017 08:24:02

Highest Channel / 15MHz / 16QAM

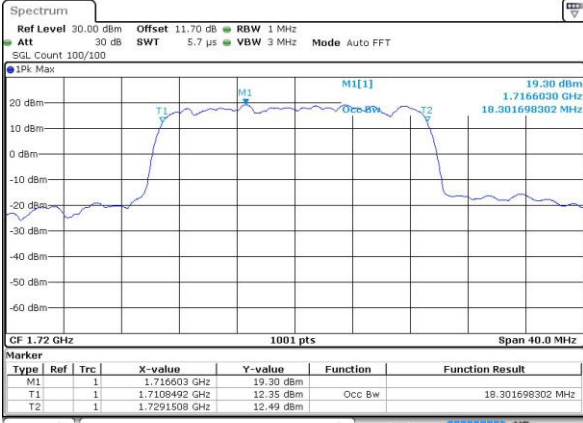


Date: 31 JAN 2017 08:24:13



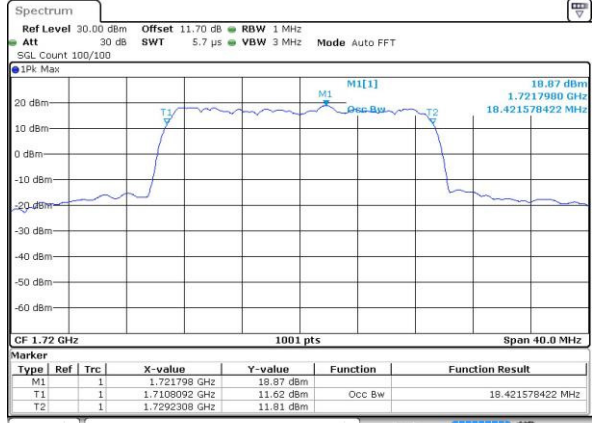
LTE Band 4

Lowest Channel / 20MHz / QPSK



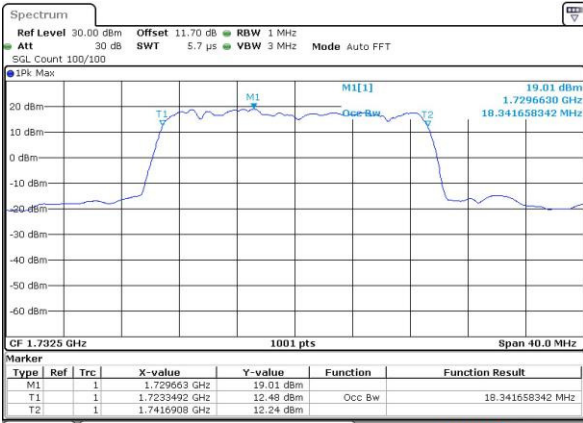
Date: 31 JAN 2017 08 31:46

Lowest Channel / 20MHz / 16QAM



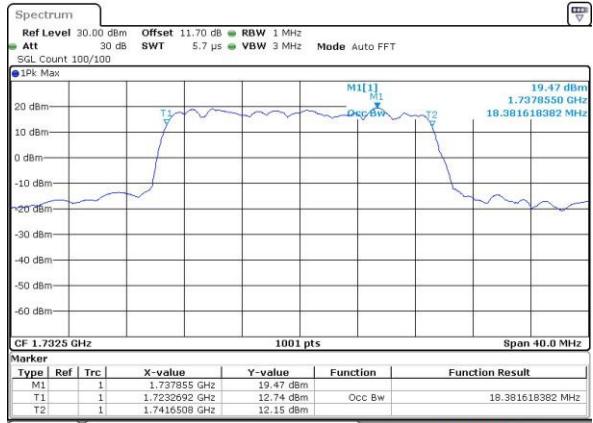
Date: 31 JAN 2017 08 31:57

Middle Channel / 20MHz / QPSK



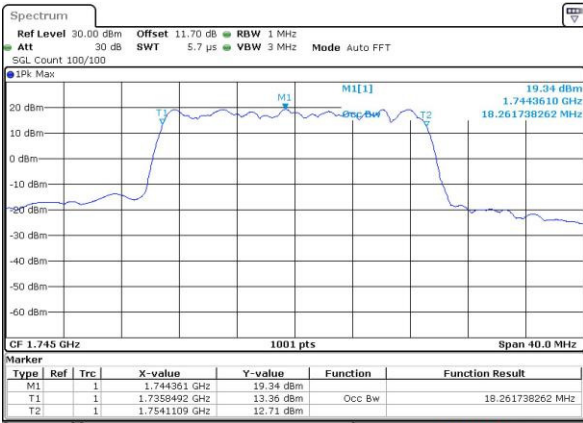
Date: 31 JAN 2017 08 39:32

Middle Channel / 20MHz / 16QAM



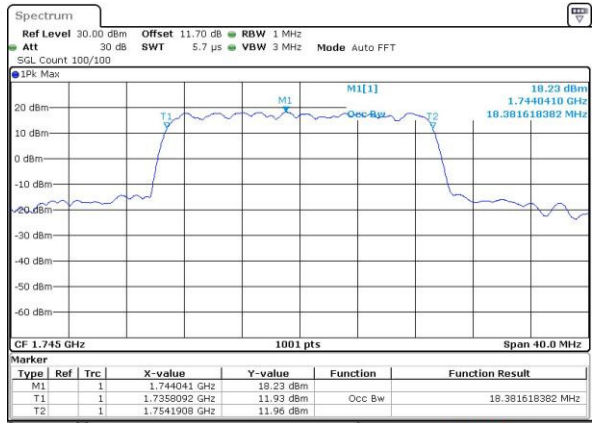
Date: 31 JAN 2017 08 39:43

Highest Channel / 20MHz / QPSK



Date: 31 JAN 2017 08 42:25

Highest Channel / 20MHz / 16QAM



Date: 31 JAN 2017 08 42:35



Conducted Band Edge