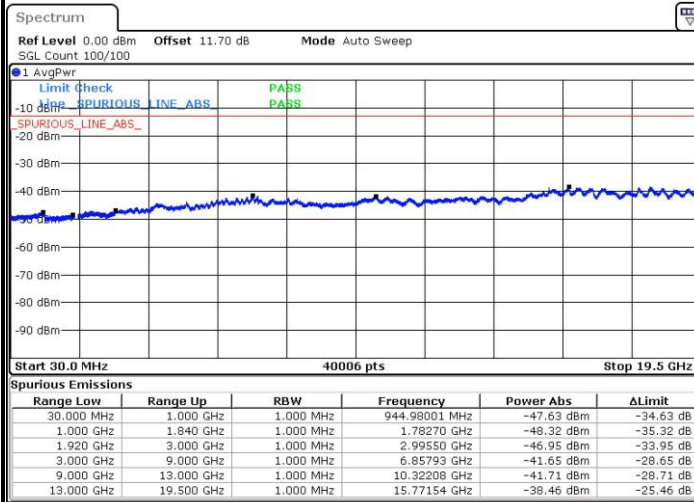




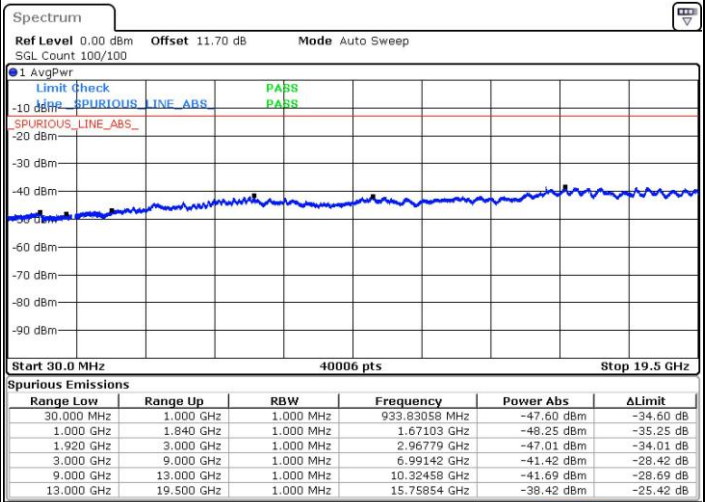
LTE Band 2 / 20MHz

Middle Channel / QPSK



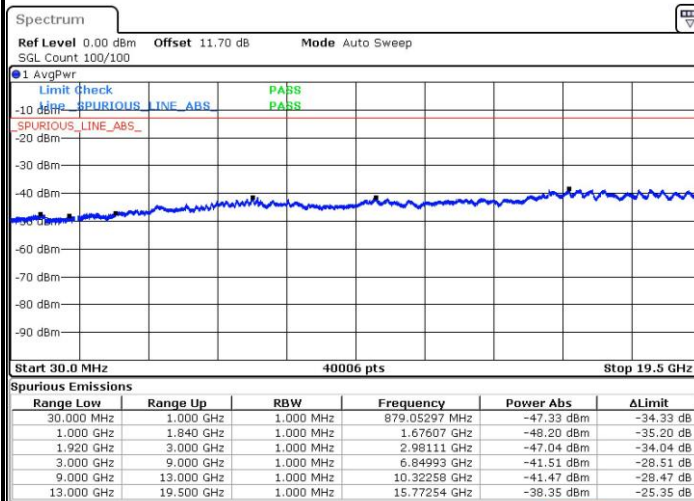
Date: 2 MAY 2017 11:51:52

Middle Channel / 16QAM



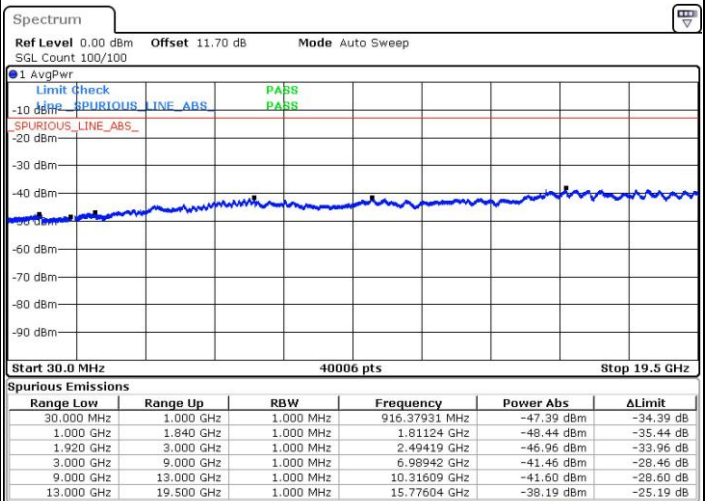
Date: 2 MAY 2017 11:52:47

Highest Channel / QPSK



Date: 2 MAY 2017 11:58:59

Highest Channel / 16QAM



Date: 2 MAY 2017 11:59:54

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	0.0013	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

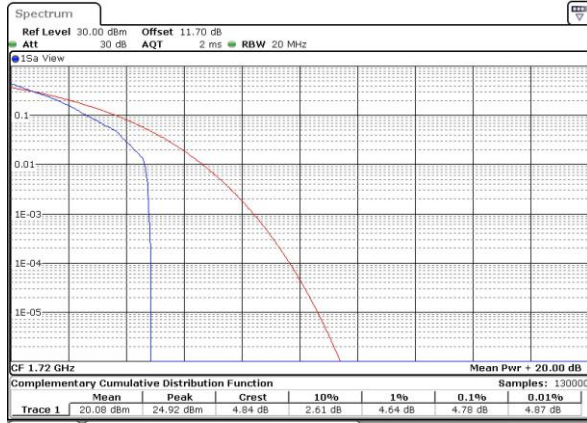
1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.0 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



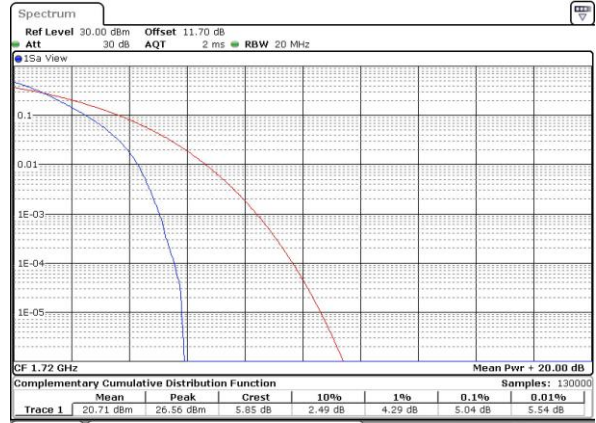
LTE Band 4

Peak-to-Average Ratio

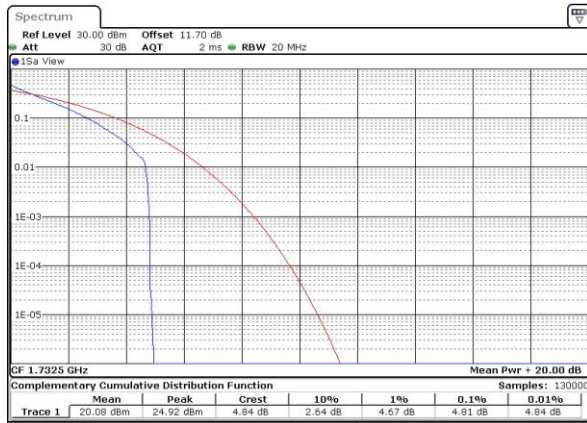
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.78	5.04	5.54	6.03	PASS
Middle CH	4.81	5.19	5.25	6.17	
Highest CH	4.78	4.99	5.71	6.06	

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


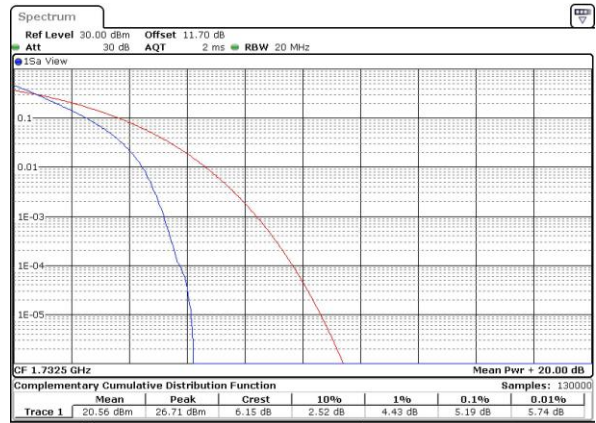
Date: 2 MAY 2017 20:01:51

Lowest Channel / Full RB


Date: 2 MAY 2017 20:02:01

Middle Channel / 1RB


Date: 2 MAY 2017 20:02:10

Middle Channel / Full RB


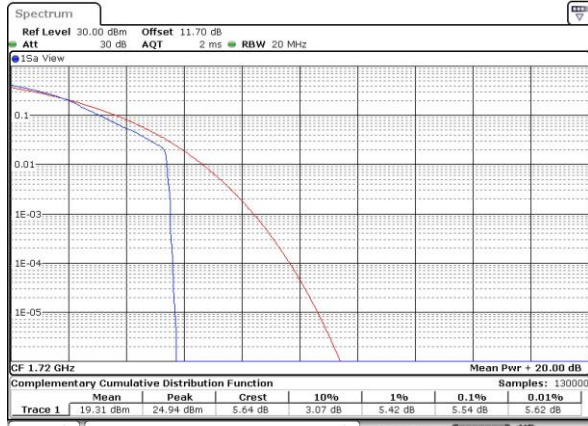
Date: 2 MAY 2017 20:02:20

Highest Channel / 1RB

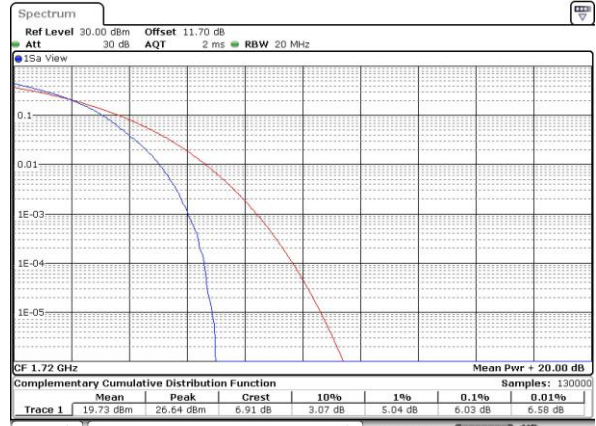

Date: 2 MAY 2017 20:02:30

Highest Channel / Full RB

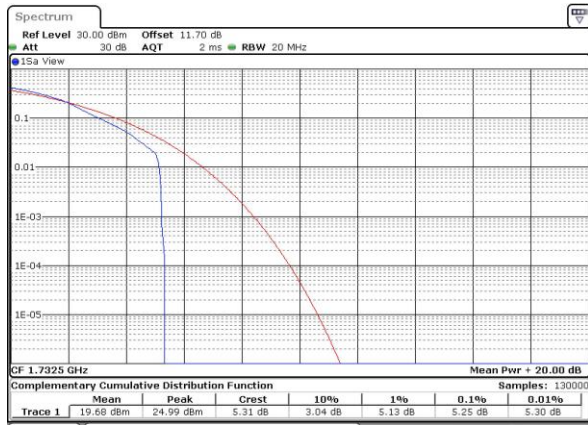

Date: 2 MAY 2017 20:02:40

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


Date: 2 MAY 2017 20:00:51

Lowest Channel / Full RB


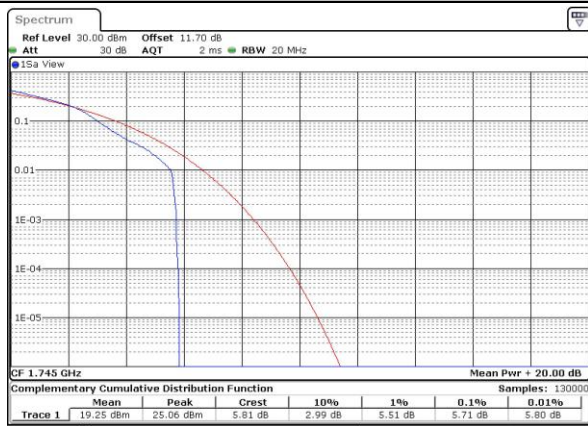
Date: 2 MAY 2017 20:01:02

Middle Channel / 1RB


Date: 2 MAY 2017 20:01:12

Middle Channel / Full RB


Date: 2 MAY 2017 20:01:21

Highest Channel / 1RB


Date: 2 MAY 2017 20:01:30

Highest Channel / Full RB


Date: 2 MAY 2017 20:01:41



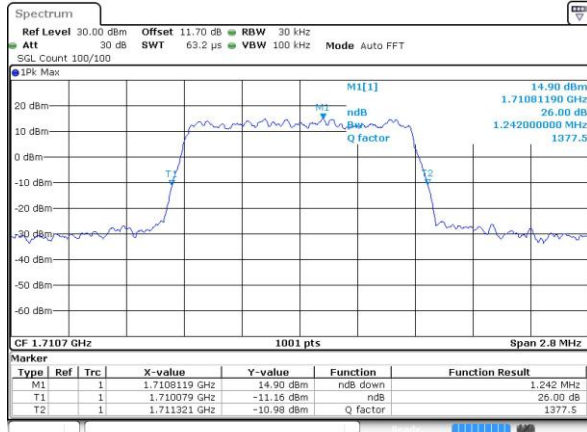
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.242	1.225	3.015	3.003	4.955	4.885	9.69	9.77	14.296	14.236	20.18	20.1
Middle CH	1.228	1.228	3.039	3.057	4.855	4.875	9.67	9.69	14.655	14.505	20.18	20.34
Highest CH	1.228	1.211	3.009	2.991	4.875	4.885	9.73	9.73	14.356	14.236	20.14	20.18



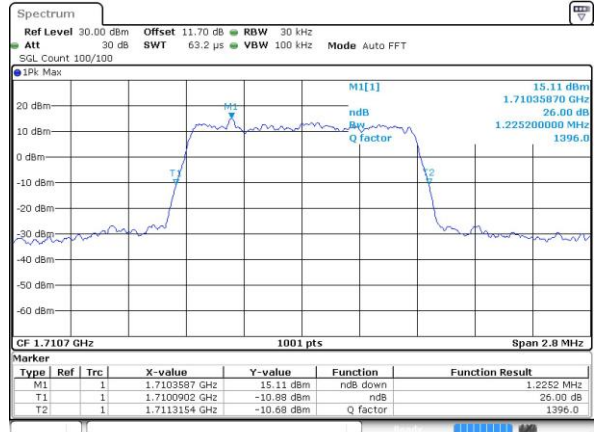
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



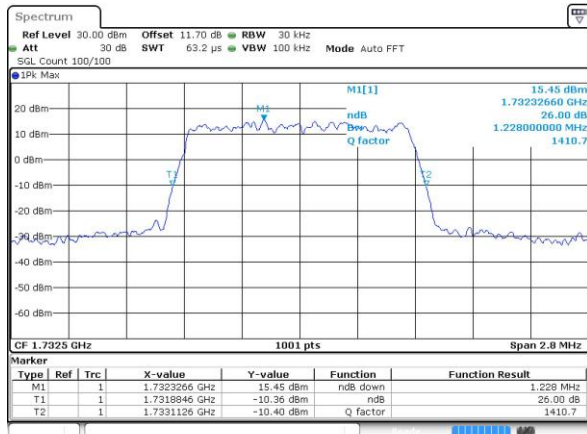
Date: 2 MAY 2017 19:44:16

Lowest Channel / 1.4MHz / 16QAM



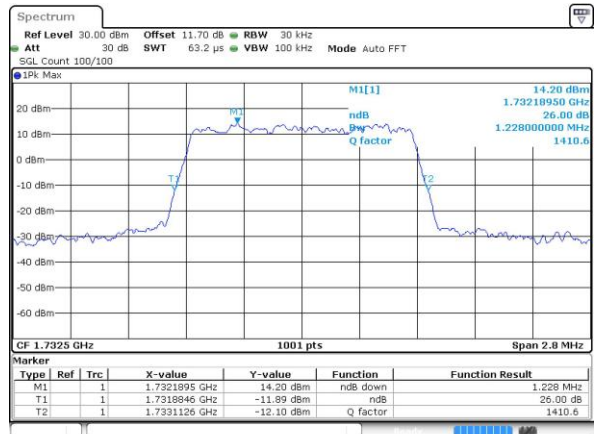
Date: 2 MAY 2017 19:44:26

Middle Channel / 1.4MHz / QPSK



Date: 2 MAY 2017 19:51:23

Middle Channel / 1.4MHz / 16QAM



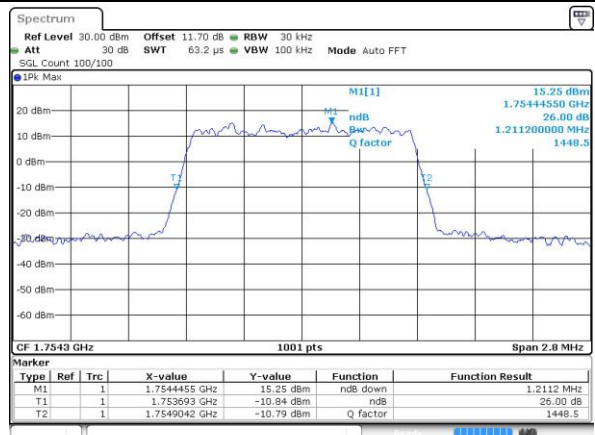
Date: 2 MAY 2017 19:51:33

Highest Channel / 1.4MHz / QPSK



Date: 2 MAY 2017 19:53:53

Highest Channel / 1.4MHz / 16QAM

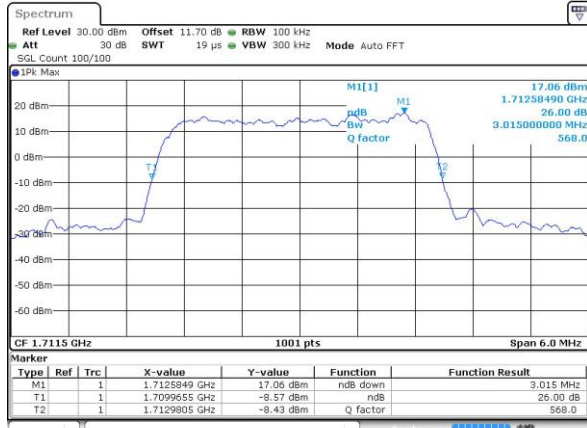


Date: 2 MAY 2017 19:54:04

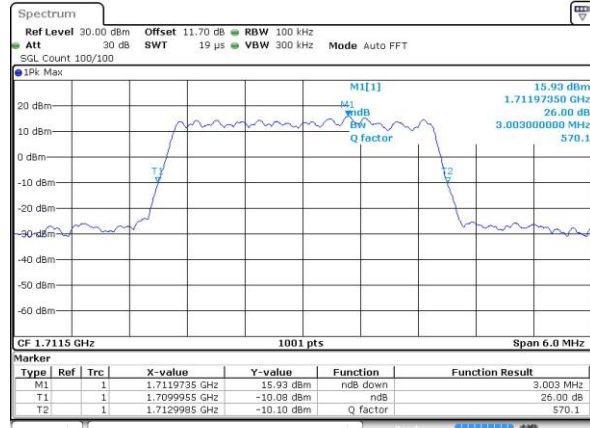


LTE Band 4

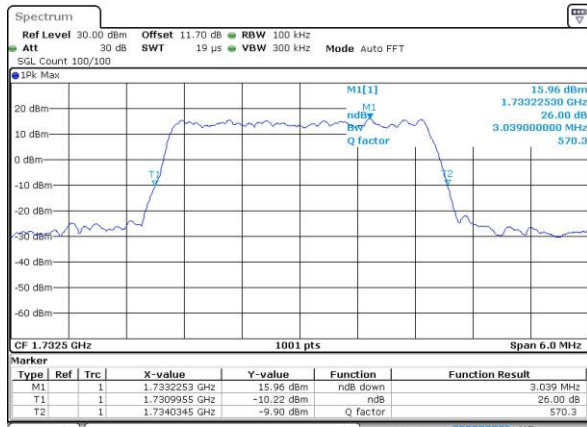
Lowest Channel / 3MHz / QPSK



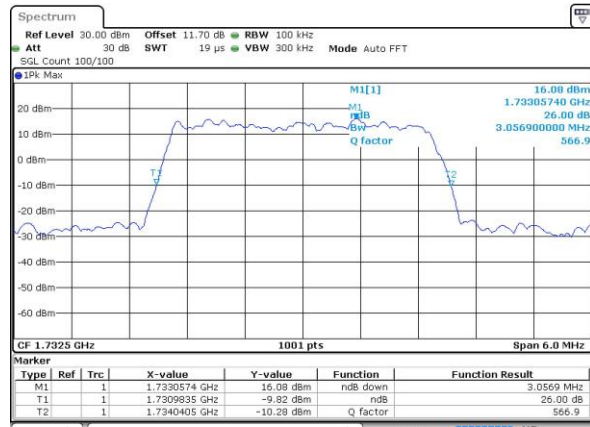
Lowest Channel / 3MHz / 16QAM



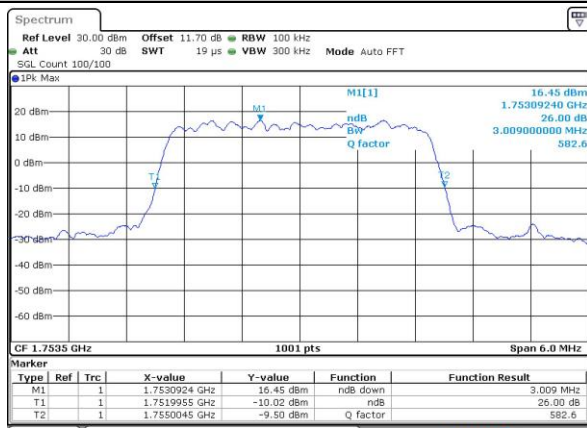
Middle Channel / 3MHz / QPSK



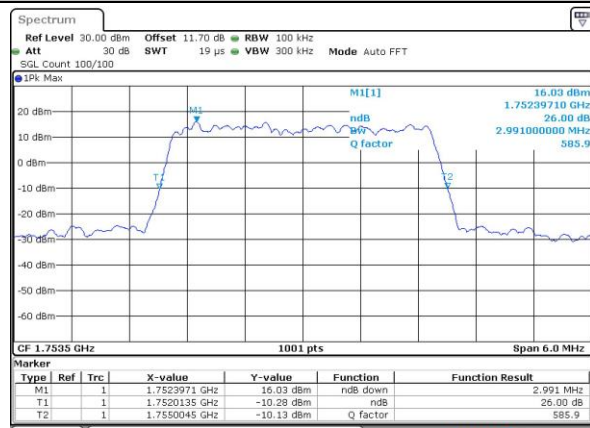
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



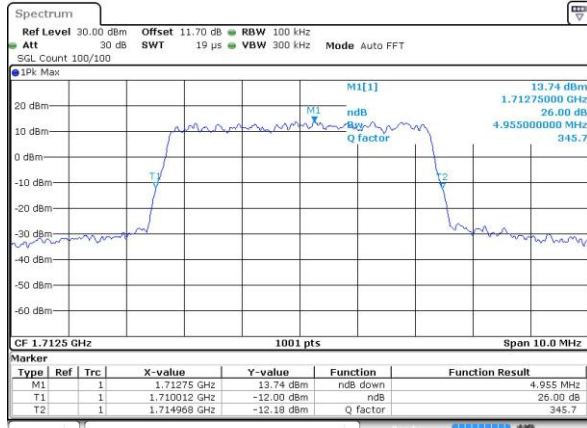
Highest Channel / 3MHz / 16QAM





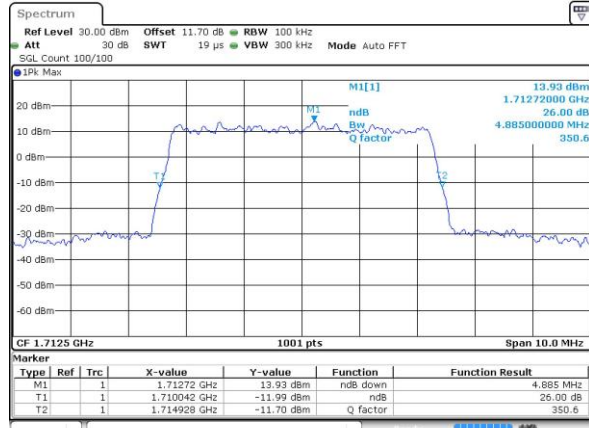
LTE Band 4

Lowest Channel / 5MHz / QPSK



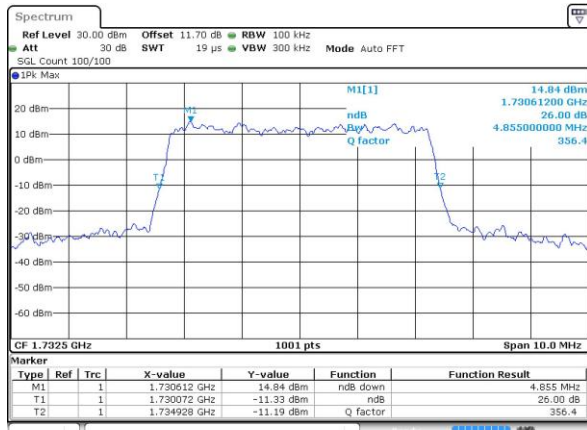
Date: 2 MAY 2017 18:36:05

Lowest Channel / 5MHz / 16QAM



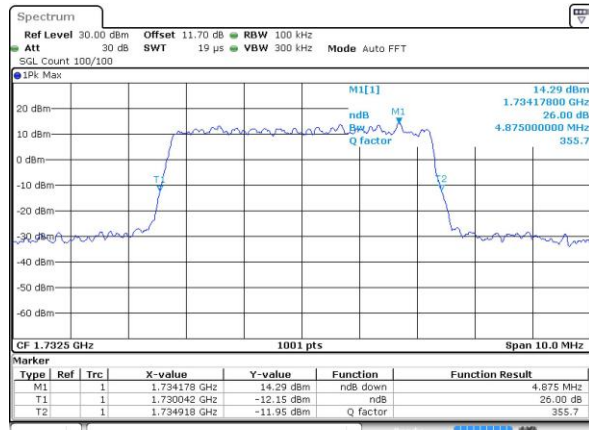
Date: 2 MAY 2017 18:36:15

Middle Channel / 5MHz / QPSK



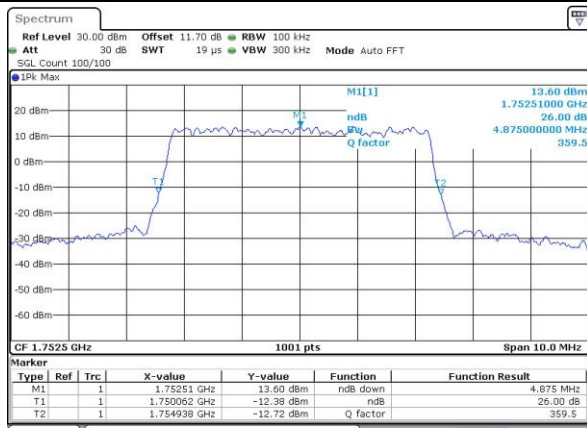
Date: 2 MAY 2017 18:43:12

Middle Channel / 5MHz / 16QAM



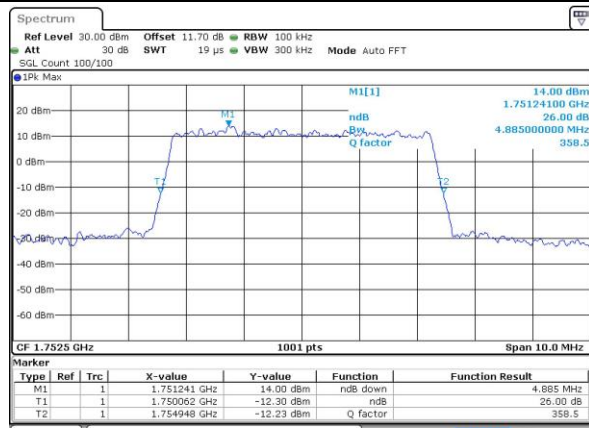
Date: 2 MAY 2017 18:43:22

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2017 18:45:43

Highest Channel / 5MHz / 16QAM

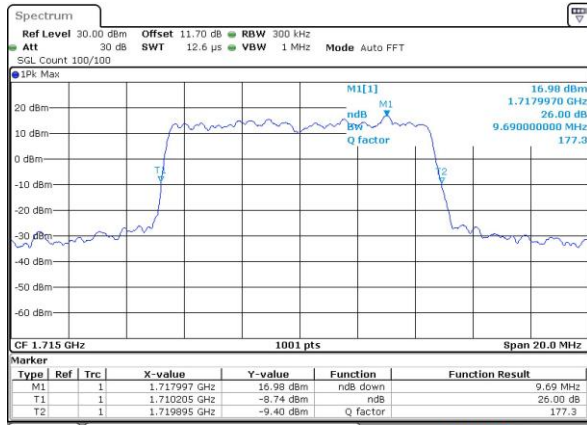


Date: 2 MAY 2017 18:45:53



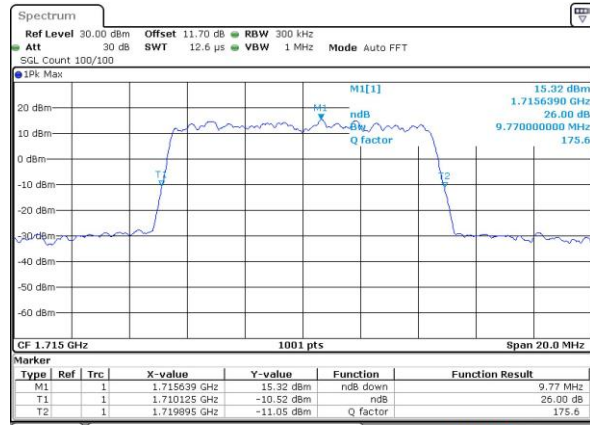
LTE Band 4

Lowest Channel / 10MHz / QPSK



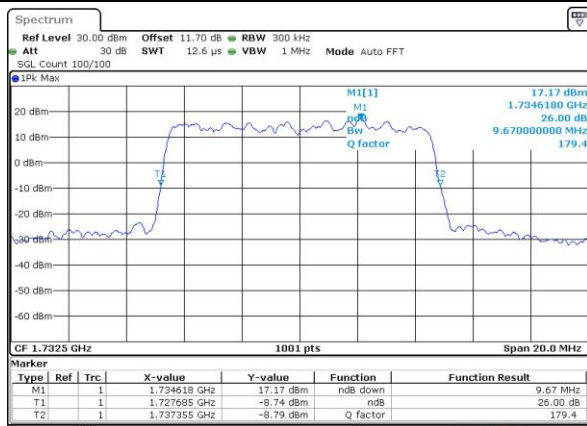
Date: 2 MAY 2017 18:52:49

Lowest Channel / 10MHz / 16QAM



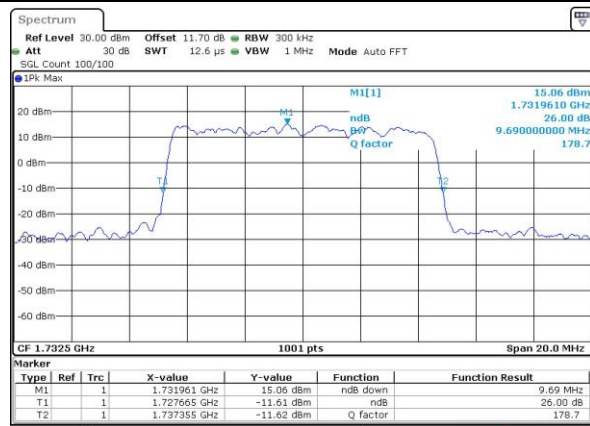
Date: 2 MAY 2017 18:53:00

Middle Channel / 10MHz / QPSK



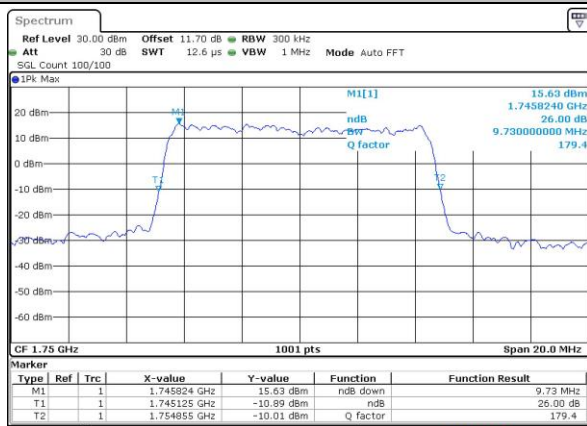
Date: 2 MAY 2017 18:59:56

Middle Channel / 10MHz / 16QAM



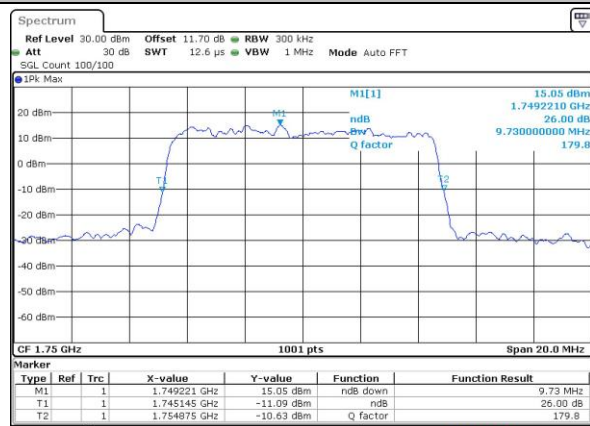
Date: 2 MAY 2017 19:00:07

Highest Channel / 10MHz / QPSK



Date: 2 MAY 2017 19:02:27

Highest Channel / 10MHz / 16QAM

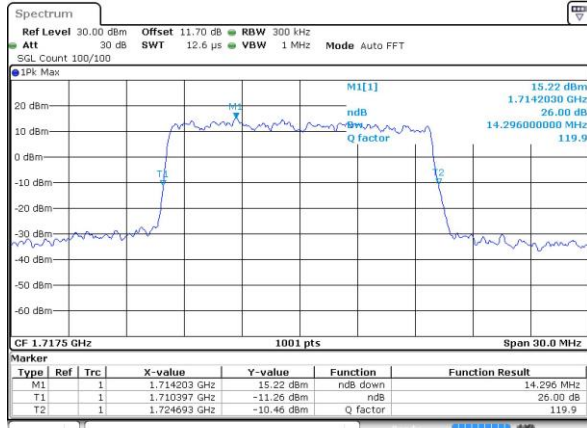


Date: 2 MAY 2017 19:02:37



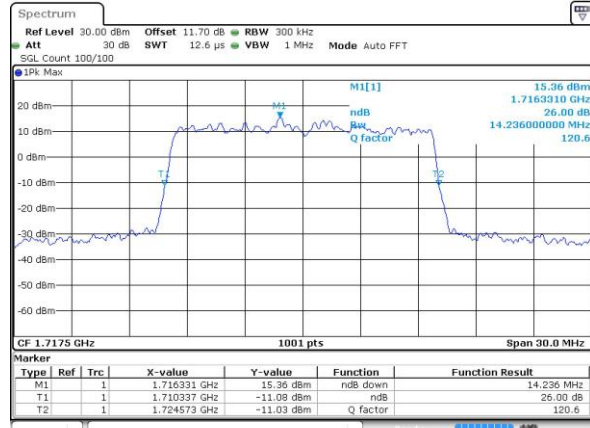
LTE Band 4

Lowest Channel / 15MHz / QPSK



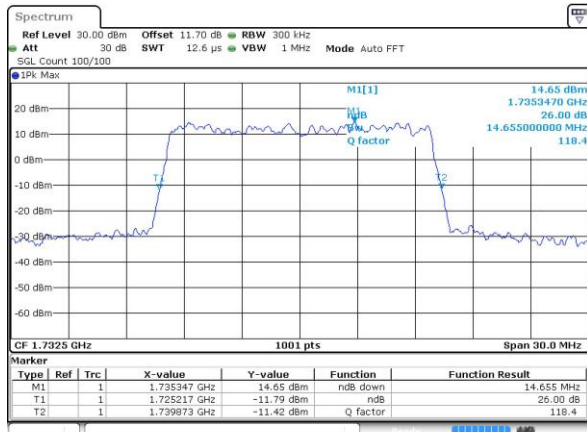
Date: 2 MAY 2017 19:09:34

Lowest Channel / 15MHz / 16QAM



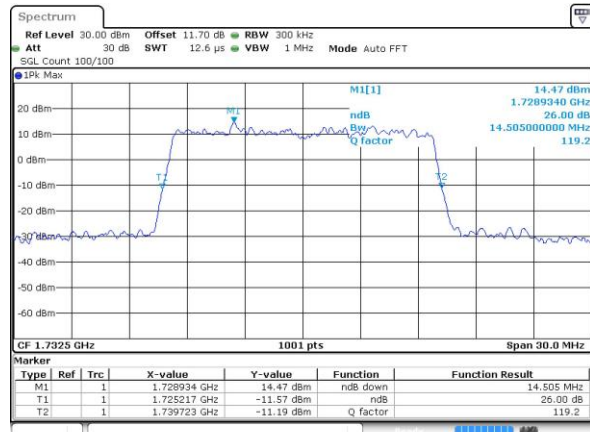
Date: 2 MAY 2017 19:09:44

Middle Channel / 15MHz / QPSK



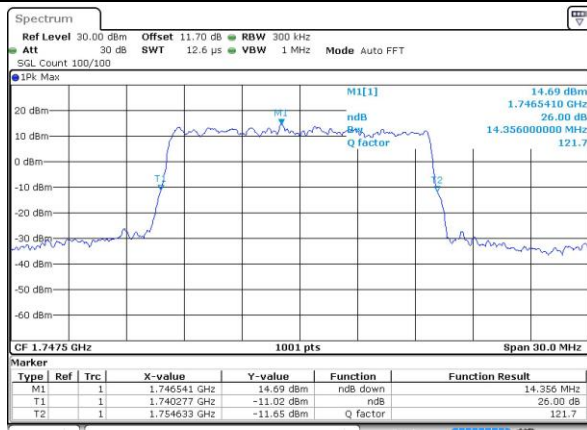
Date: 2 MAY 2017 19:16:40

Middle Channel / 15MHz / 16QAM



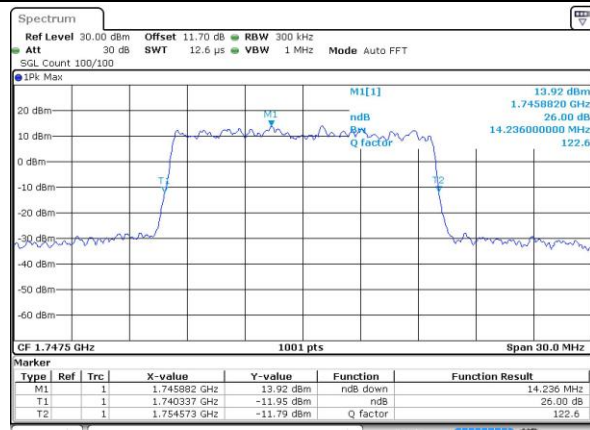
Date: 2 MAY 2017 19:16:51

Highest Channel / 15MHz / QPSK



Date: 2 MAY 2017 19:19:11

Highest Channel / 15MHz / 16QAM

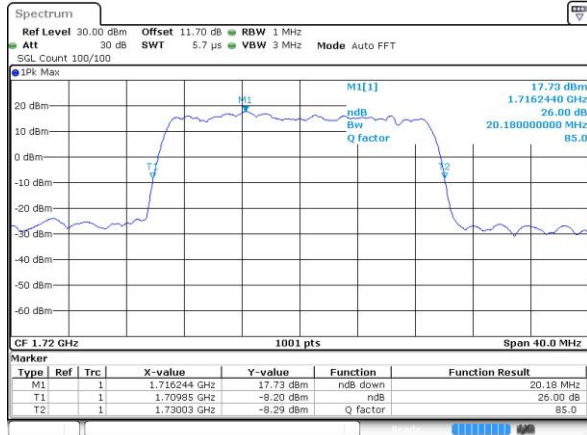


Date: 2 MAY 2017 19:19:21

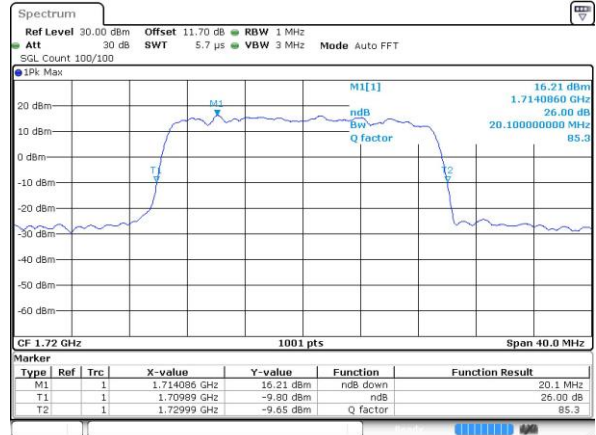


LTE Band 4

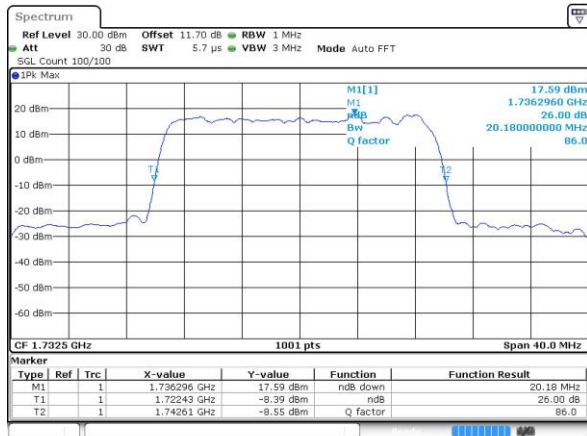
Lowest Channel / 20MHz / QPSK



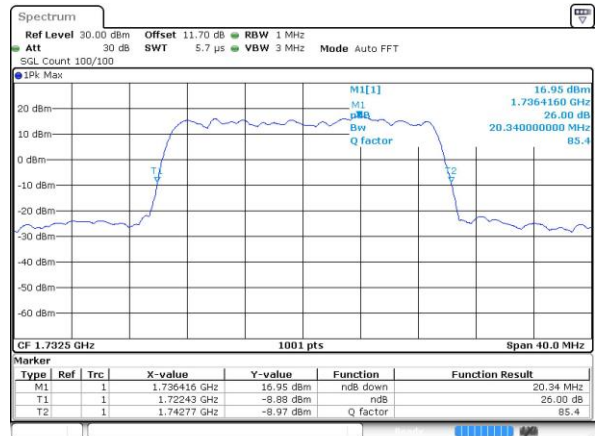
Lowest Channel / 20MHz / 16QAM



Middle Channel / 20MHz / QPSK



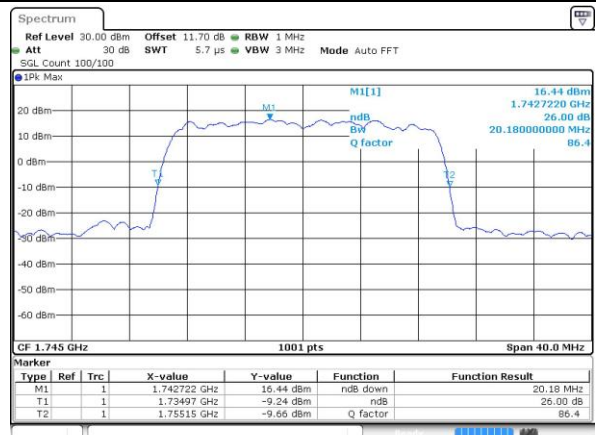
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM





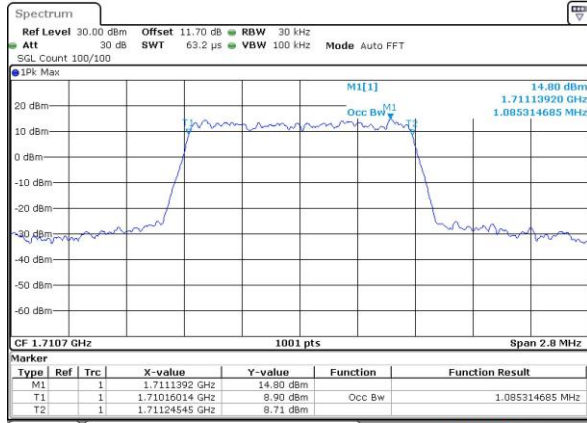
Occupied Bandwidth

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	1.1	2.71	2.7	4.48	4.49	9.01	8.95	13.43	13.46	18.26	18.26
Middle CH	1.09	1.09	2.73	2.72	4.5	4.5	9.07	9.01	13.52	13.49	18.46	18.38
Highest CH	1.08	1.09	2.71	2.7	4.5	4.5	9.03	9.01	13.43	13.4	18.22	18.38



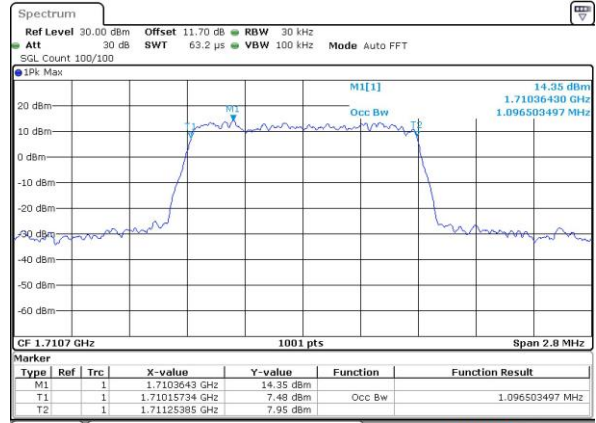
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



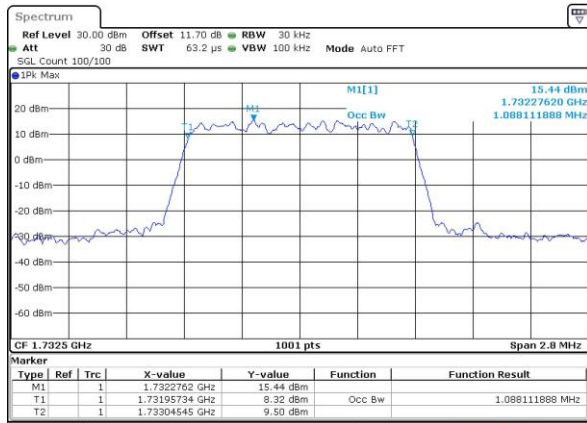
Date: 2 MAY 2017 19:43:55

Lowest Channel / 1.4MHz / 16QAM



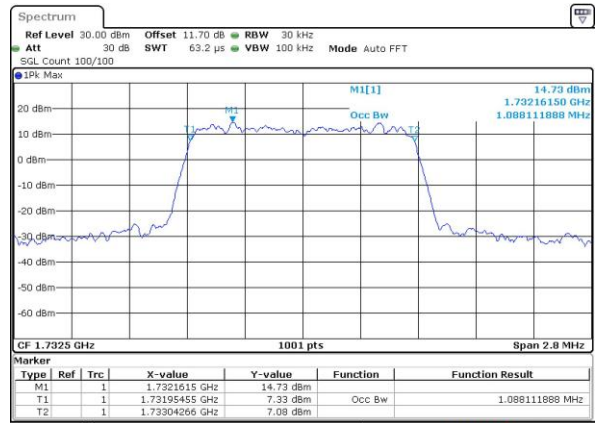
Date: 2 MAY 2017 19:44:06

Middle Channel / 1.4MHz / QPSK



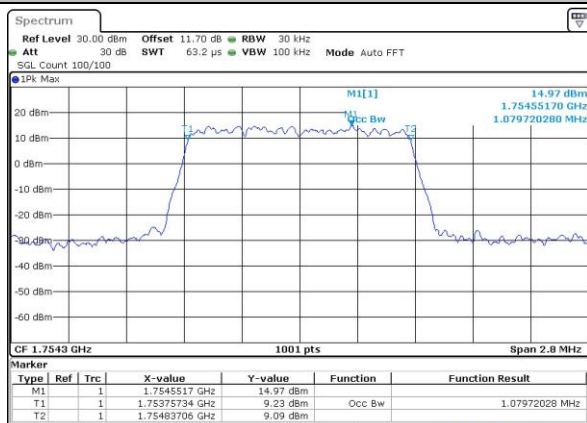
Date: 2 MAY 2017 19:51:02

Middle Channel / 1.4MHz / 16QAM



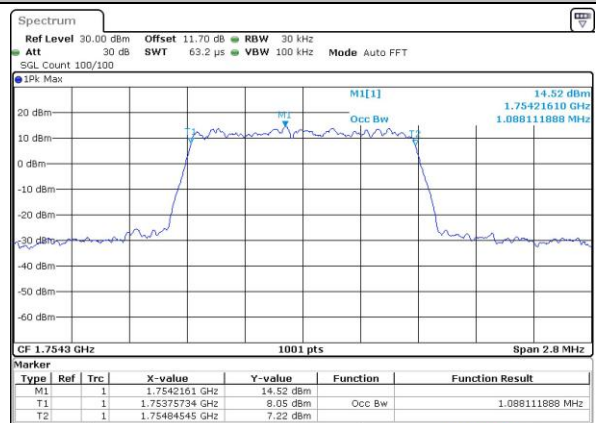
Date: 2 MAY 2017 19:51:12

Highest Channel / 1.4MHz / QPSK



Date: 2 MAY 2017 19:53:32

Highest Channel / 1.4MHz / 16QAM

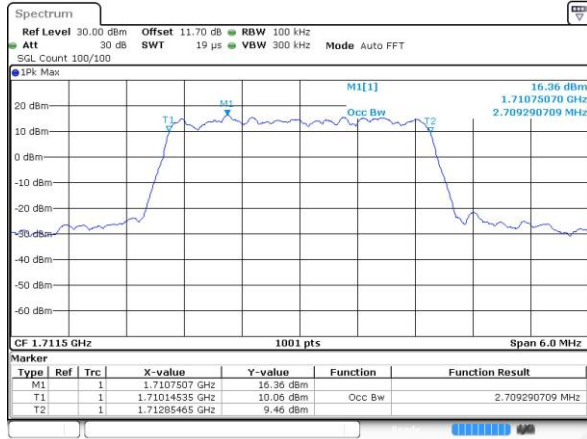


Date: 2 MAY 2017 19:53:43

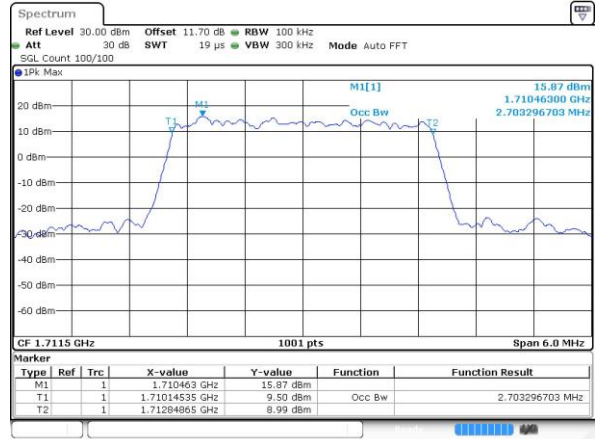


LTE Band 4

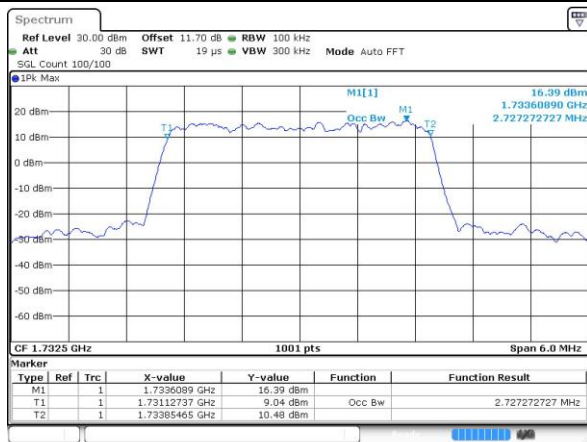
Lowest Channel / 3MHz / QPSK



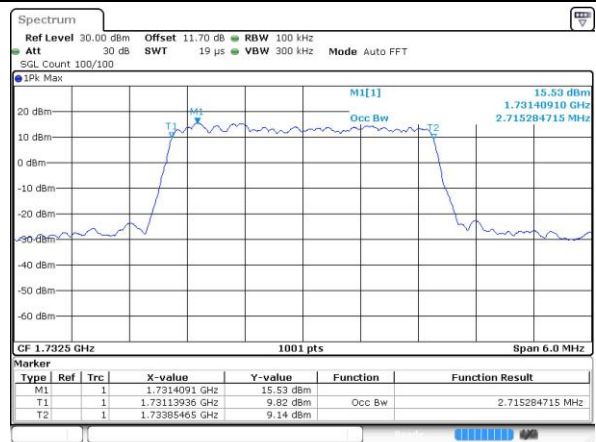
Lowest Channel / 3MHz / 16QAM



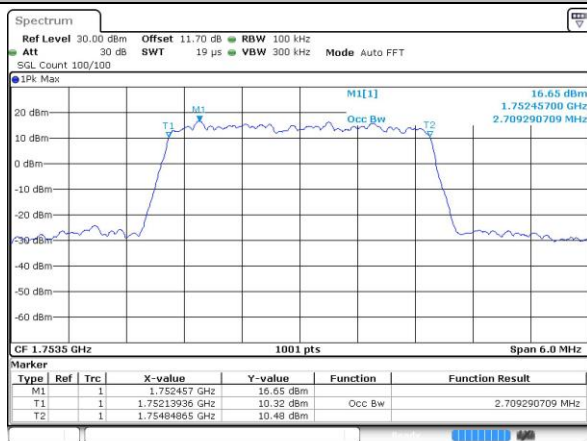
Middle Channel / 3MHz / QPSK



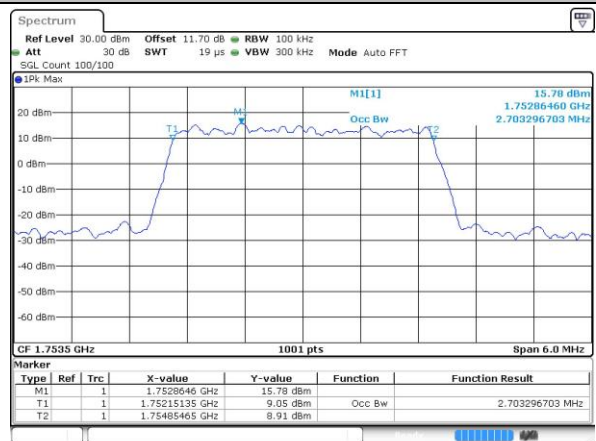
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



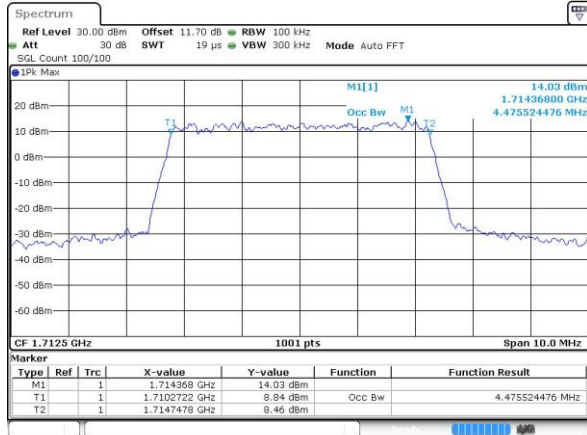
Highest Channel / 3MHz / 16QAM





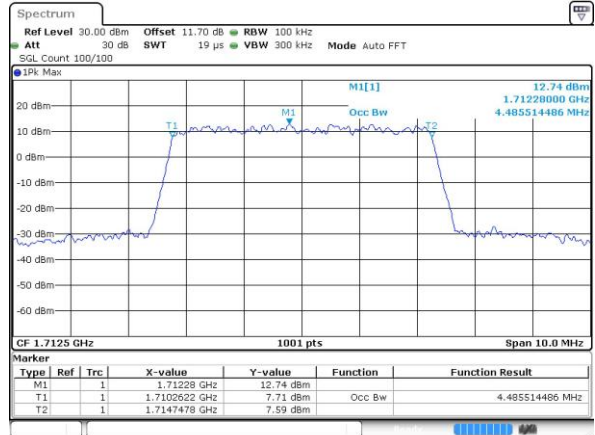
LTE Band 4

Lowest Channel / 5MHz / QPSK



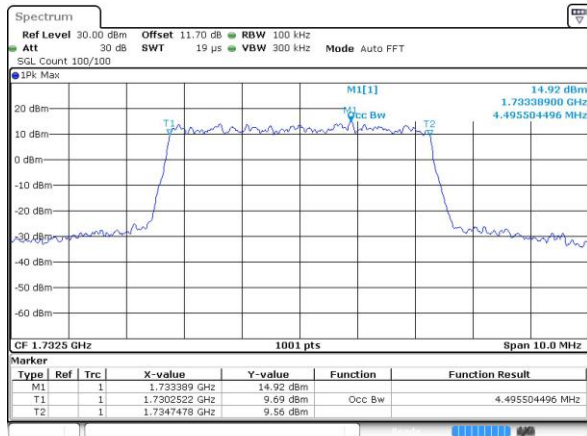
Date: 2 MAY 2017 18:35:44

Lowest Channel / 5MHz / 16QAM



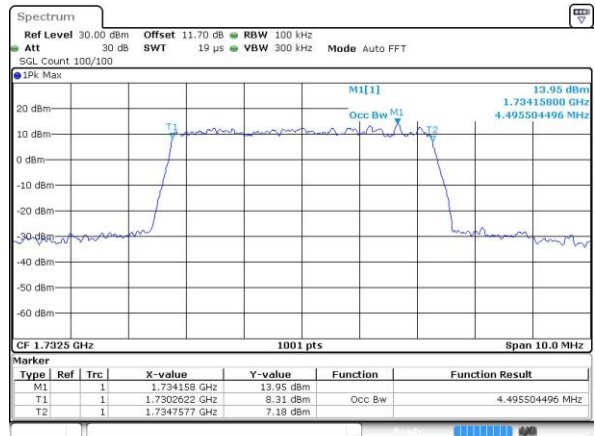
Date: 2 MAY 2017 18:35:55

Middle Channel / 5MHz / QPSK



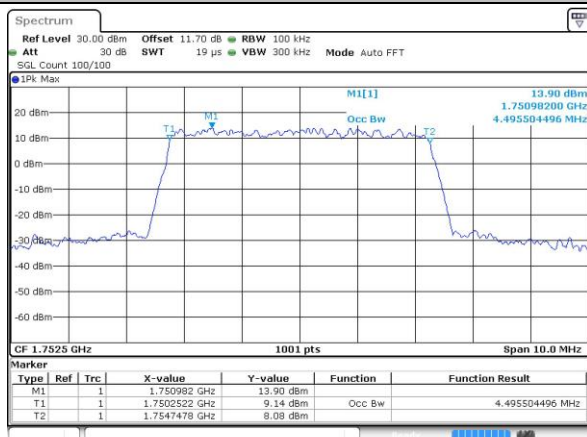
Date: 2 MAY 2017 18:42:51

Middle Channel / 5MHz / 16QAM



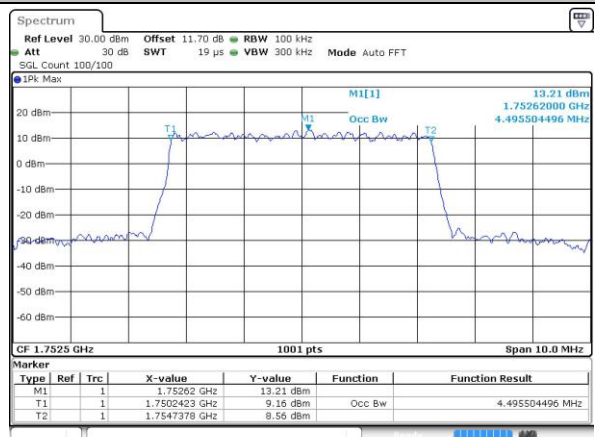
Date: 2 MAY 2017 18:43:02

Highest Channel / 5MHz / QPSK



Date: 2 MAY 2017 18:45:22

Highest Channel / 5MHz / 16QAM

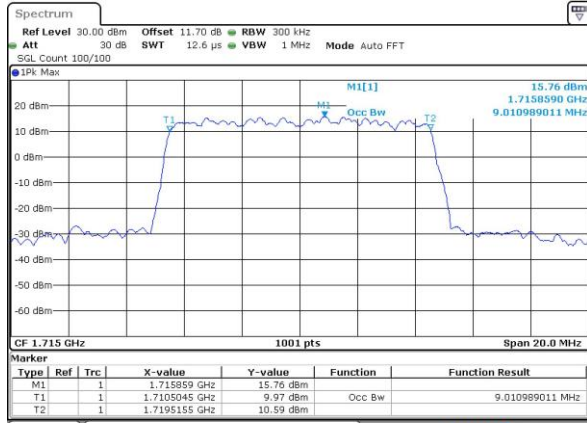


Date: 2 MAY 2017 18:45:32



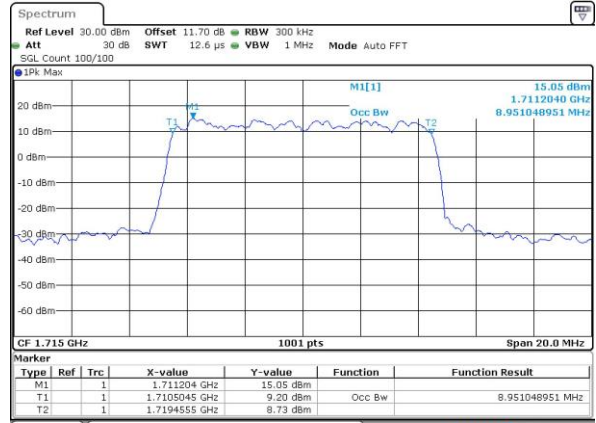
LTE Band 4

Lowest Channel / 10MHz / QPSK



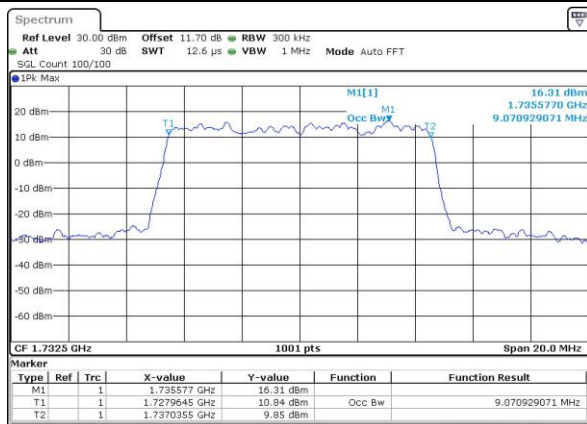
Date: 2 MAY 2017 18:52:29

Lowest Channel / 10MHz / 16QAM



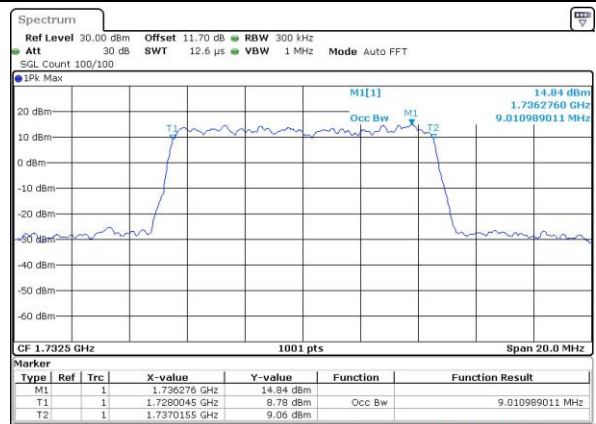
Date: 2 MAY 2017 18:52:39

Middle Channel / 10MHz / QPSK



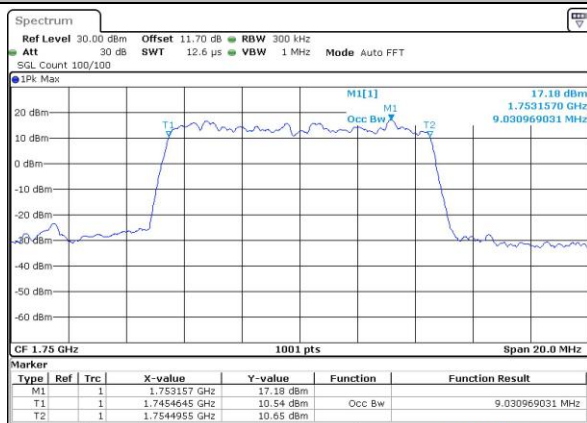
Date: 2 MAY 2017 18:59:36

Middle Channel / 10MHz / 16QAM



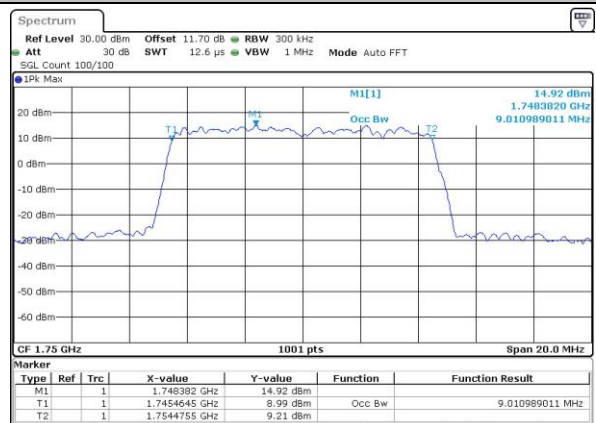
Date: 2 MAY 2017 18:59:46

Highest Channel / 10MHz / QPSK



Date: 2 MAY 2017 19:02:06

Highest Channel / 10MHz / 16QAM

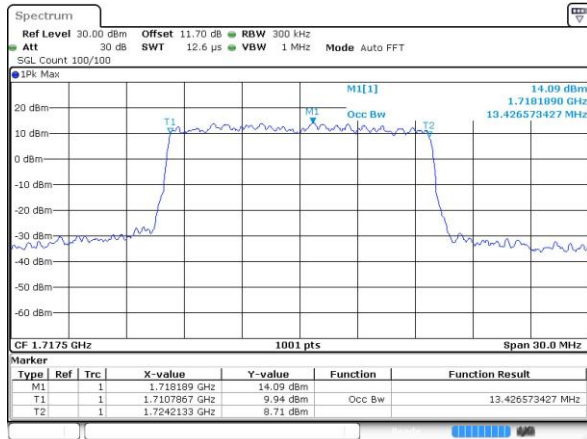


Date: 2 MAY 2017 19:02:16

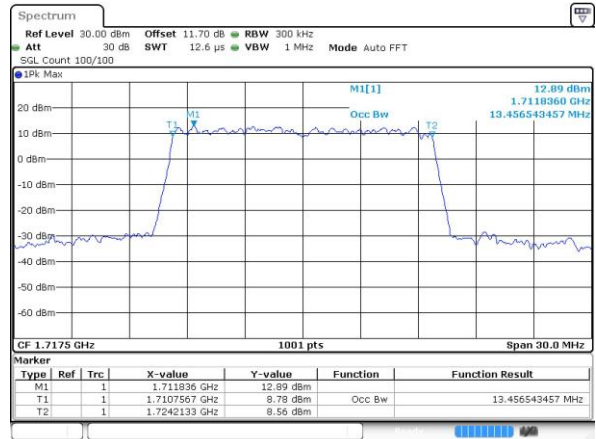


LTE Band 4

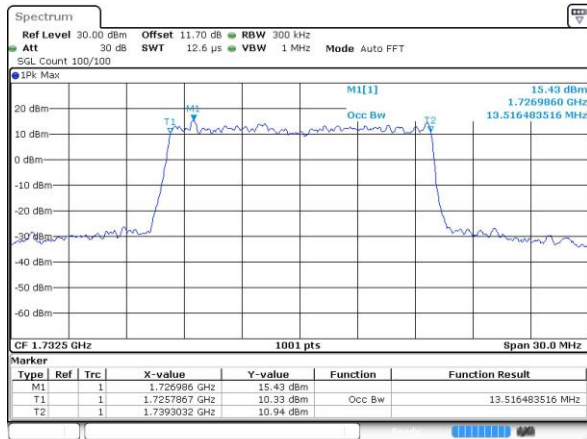
Lowest Channel / 15MHz / QPSK



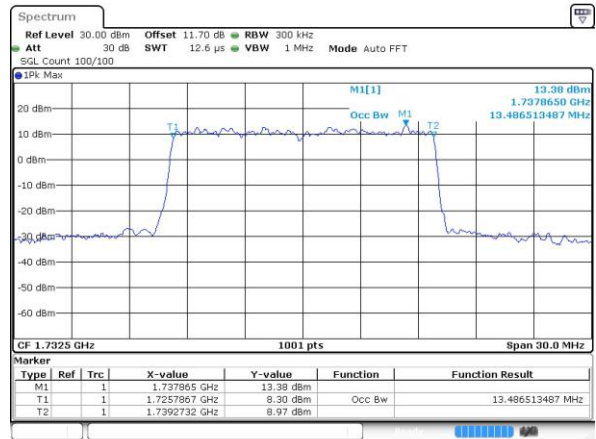
Lowest Channel / 15MHz / 16QAM



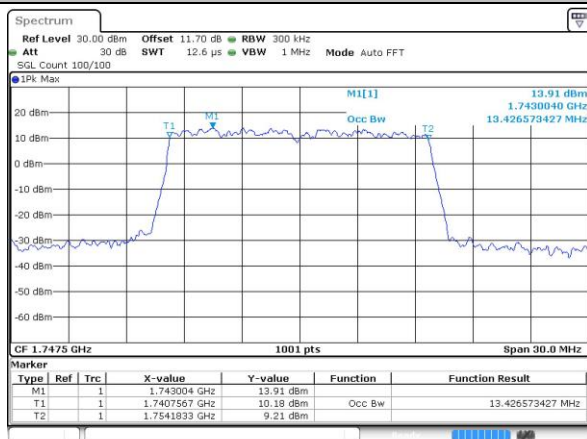
Middle Channel / 15MHz / QPSK



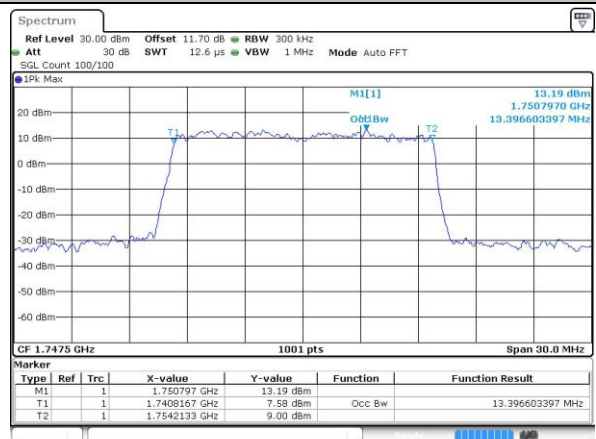
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



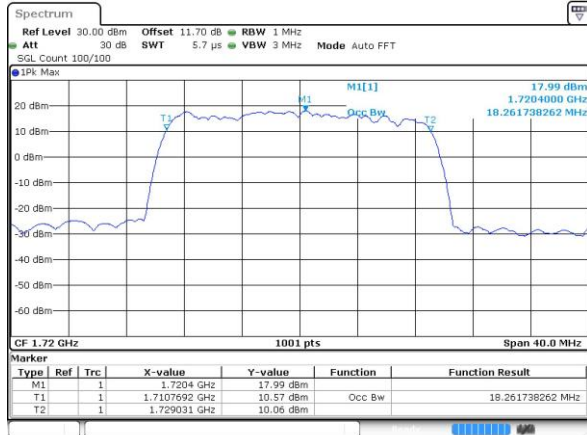
Highest Channel / 15MHz / 16QAM





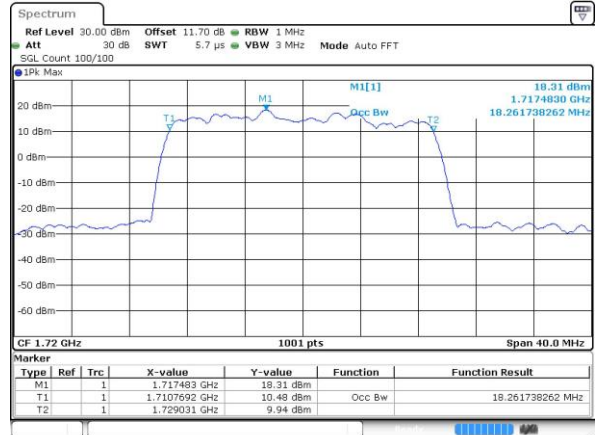
LTE Band 4

Lowest Channel / 20MHz / QPSK



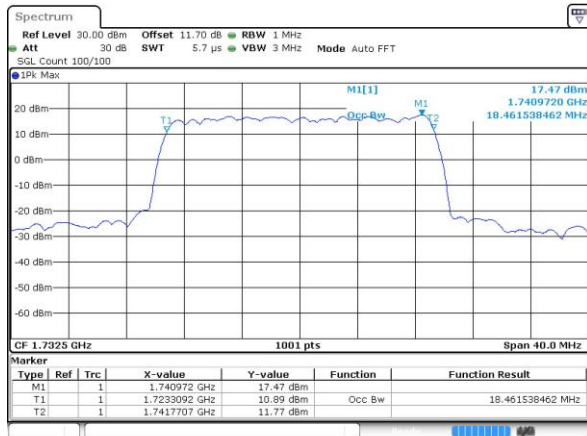
Date: 2 MAY 2017 19:25:57

Lowest Channel / 20MHz / 16QAM



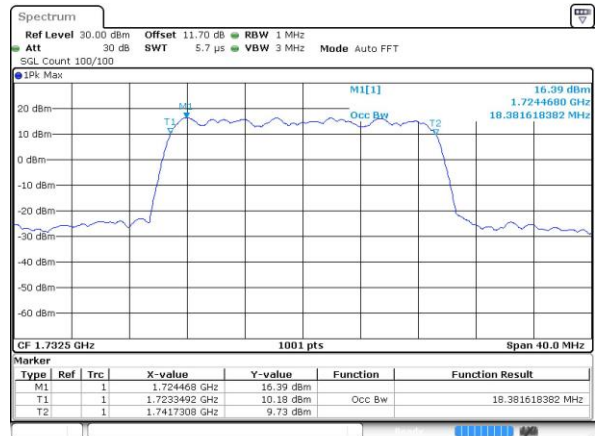
Date: 2 MAY 2017 19:26:08

Middle Channel / 20MHz / QPSK



Date: 2 MAY 2017 19:33:04

Middle Channel / 20MHz / 16QAM



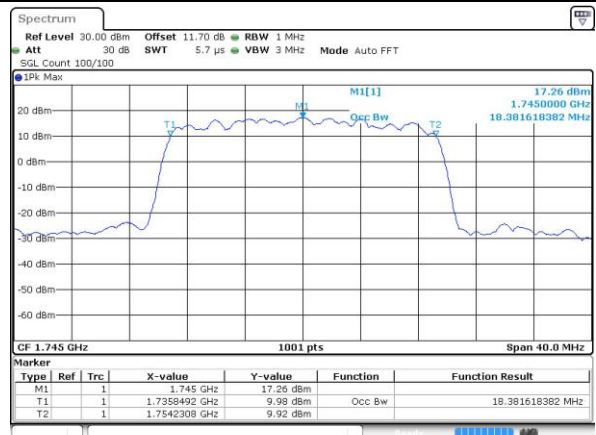
Date: 2 MAY 2017 19:33:14

Highest Channel / 20MHz / QPSK

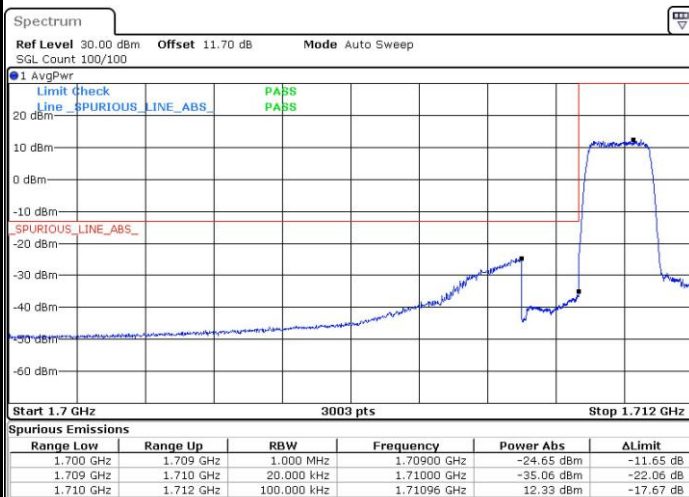


Date: 2 MAY 2017 19:35:34

Highest Channel / 20MHz / 16QAM



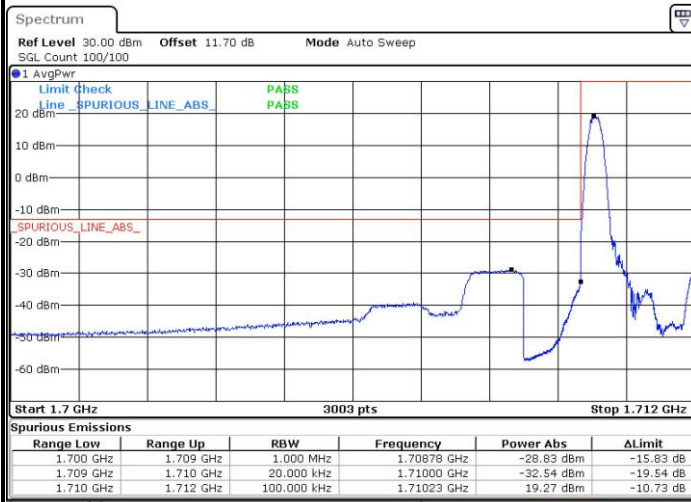
Date: 2 MAY 2017 19:35:44

**Conducted Band Edge****LTE Band 4 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 4 / 1.4MHz / 16QAM

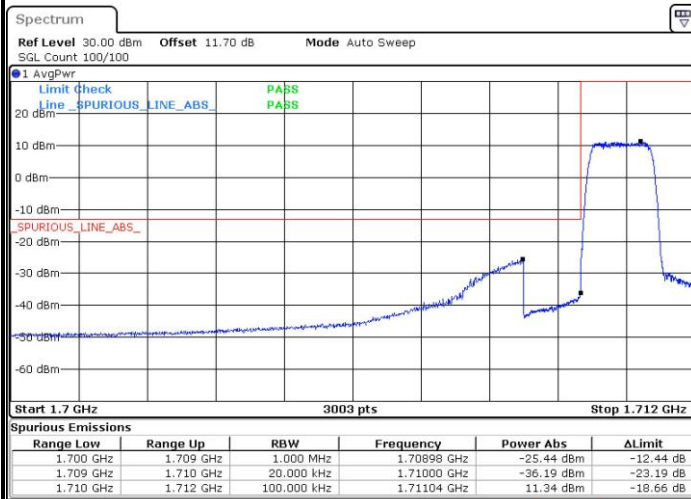
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

