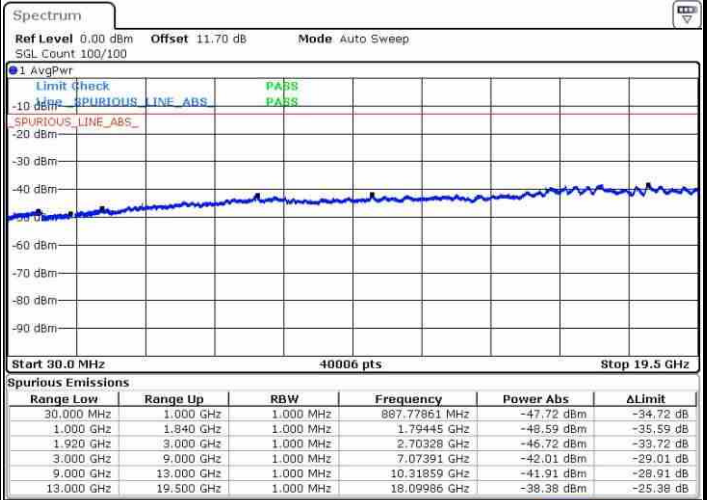
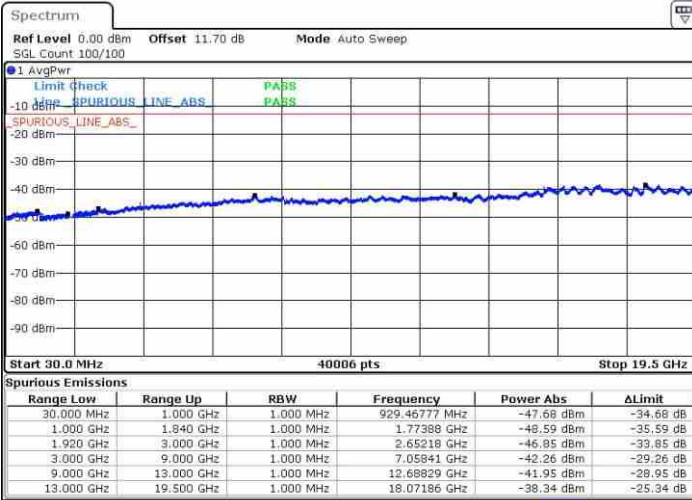




LTE Band 2 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



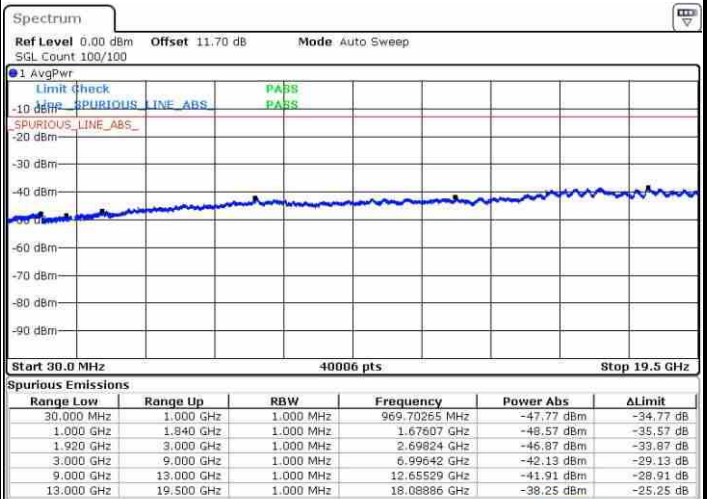
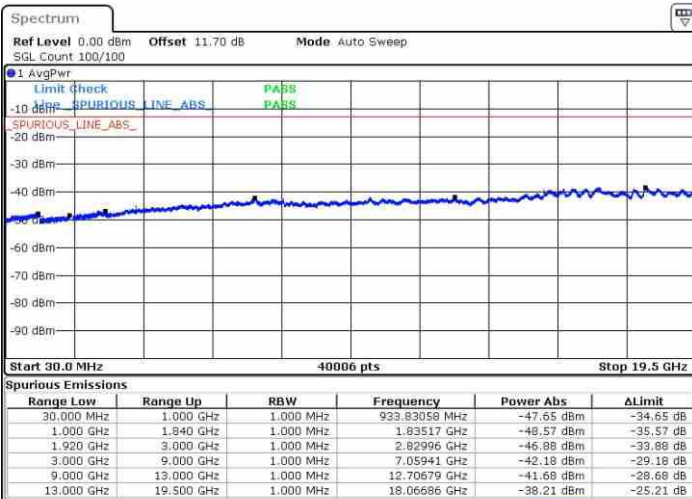
Date: 19.FEB 2016 22:42:38

Date: 19.FEB 2016 22:43:32

LTE Band 2 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 19.FEB 2016 21:08:48

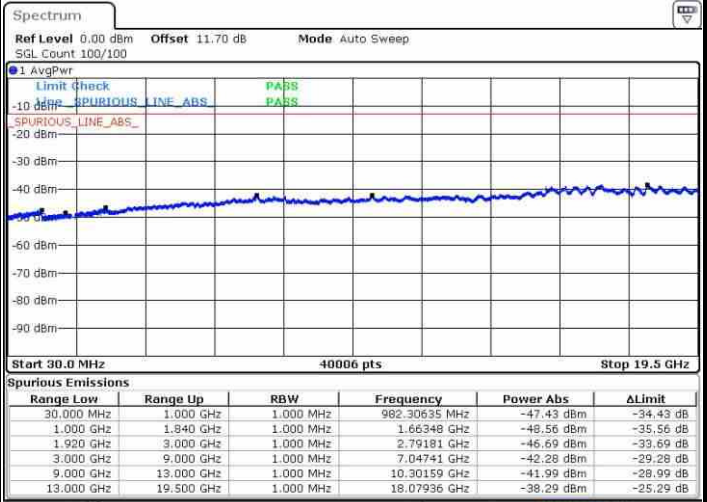
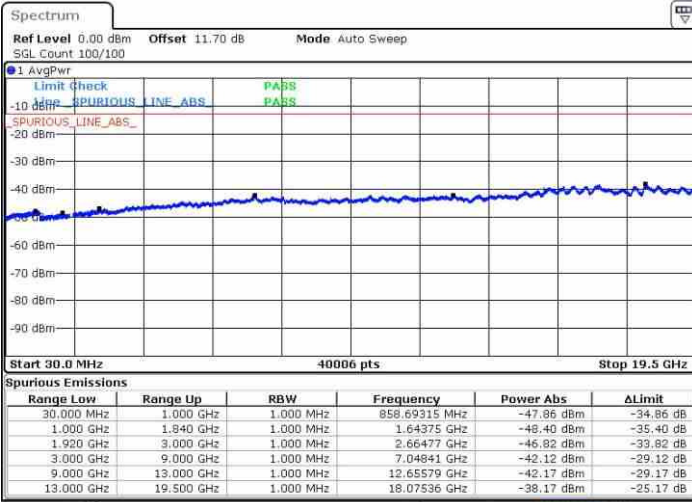
Date: 19.FEB 2016 21:09:43



LTE Band 2 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

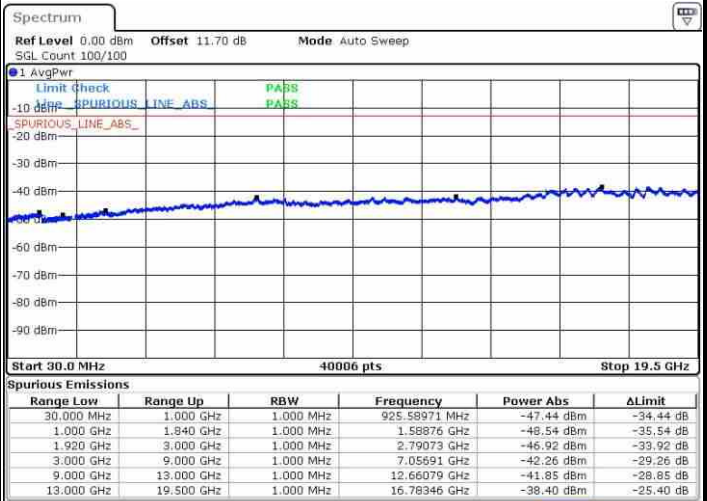
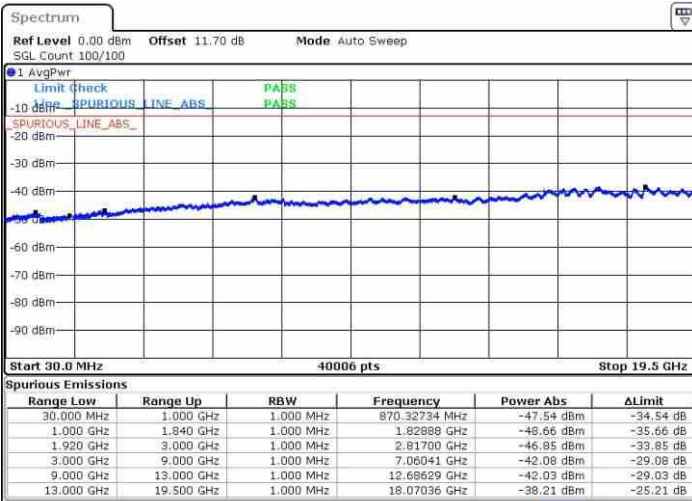


Date: 19.FEB 2016 21:11:20

Date: 19.FEB 2016 21:12:14

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.FEB 2016 21:18:28

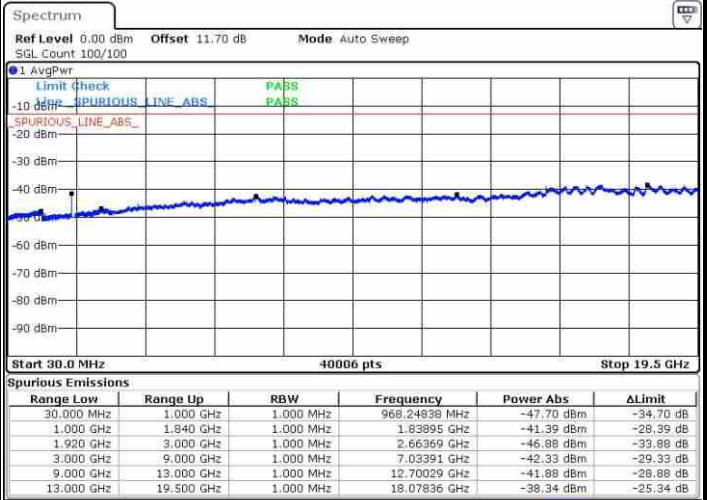
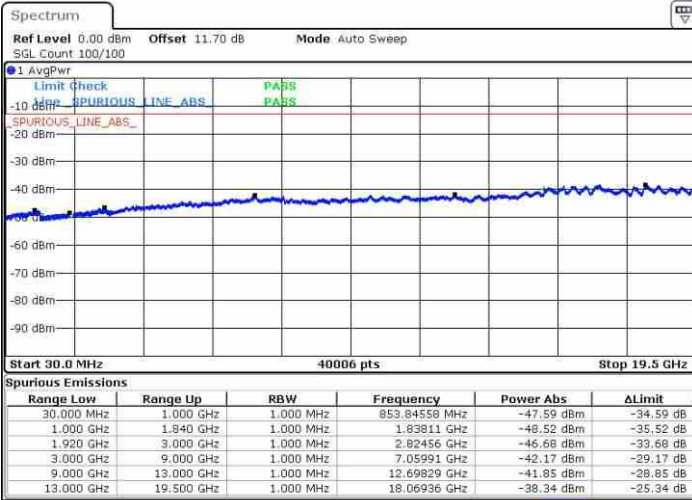
Date: 19.FEB 2016 21:19:23



LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

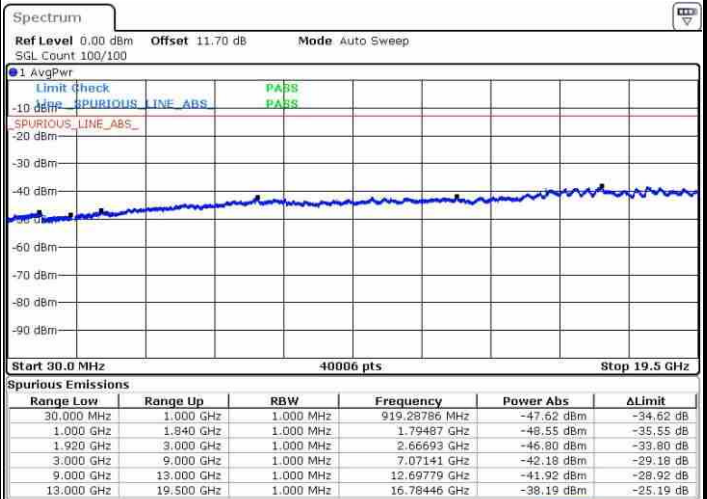
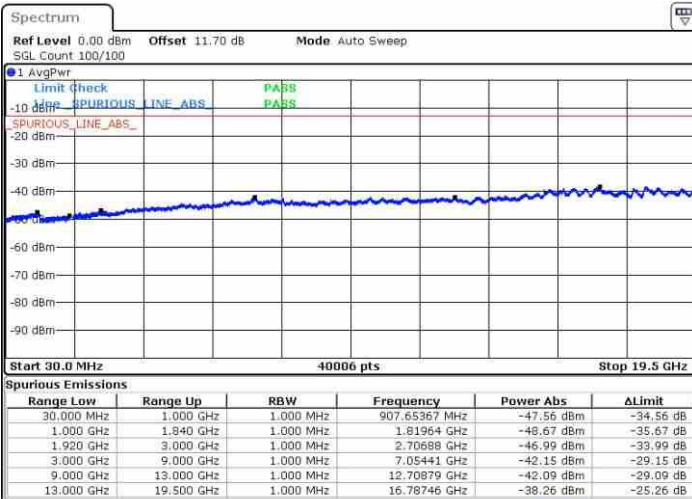


Date: 19.FEB 2016 21:25:37

Date: 19.FEB 2016 21:26:32

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 19.FEB 2016 21:28:09

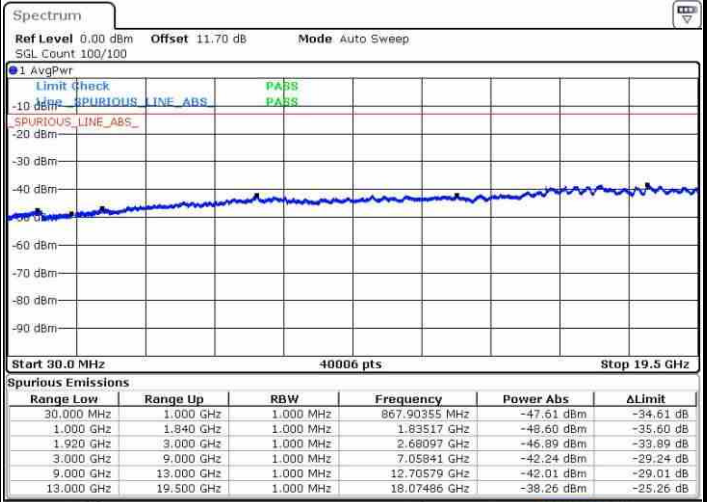
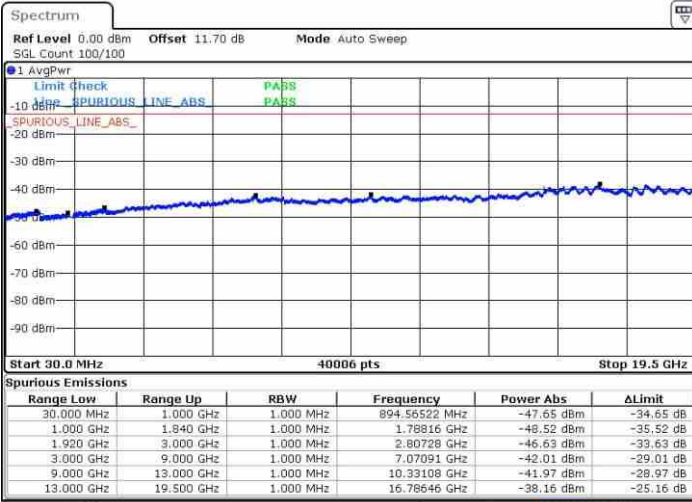
Date: 19.FEB 2016 21:29:04



LTE Band 2 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



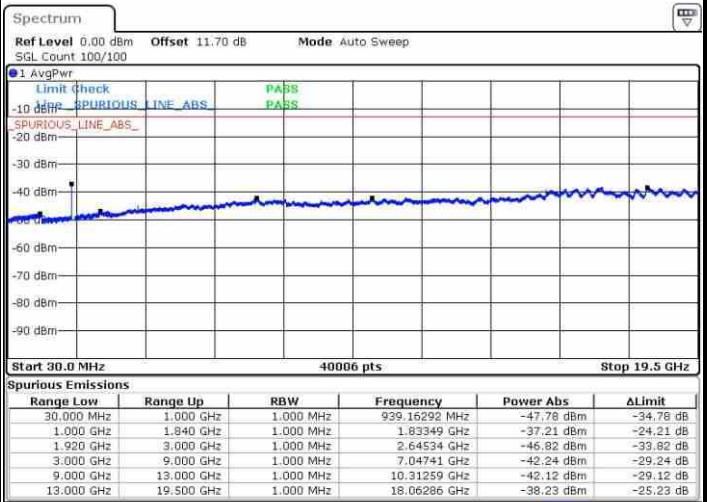
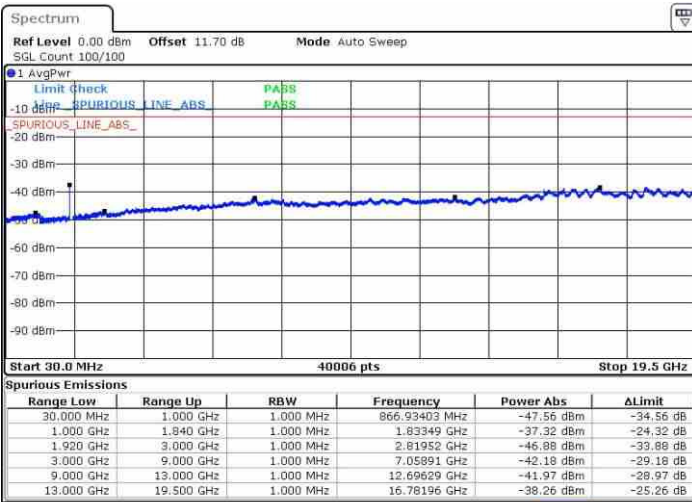
Date: 19.FEB 2016 21:35:18

Date: 19.FEB 2016 21:36:13

LTE Band 2 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 19.FEB 2016 21:42:27

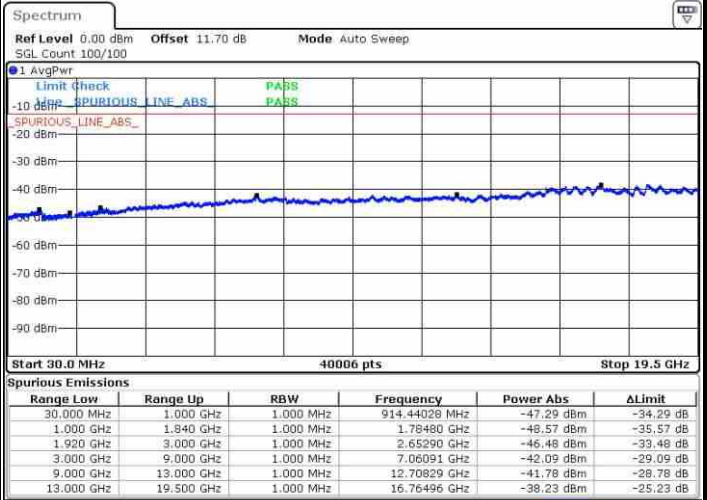
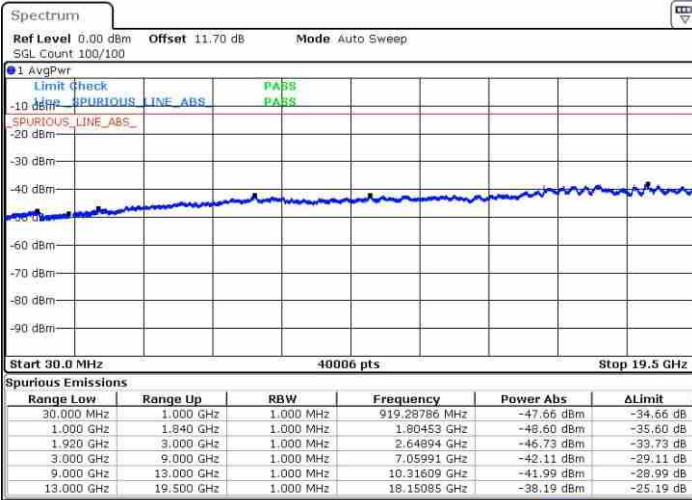
Date: 19.FEB 2016 21:43:22



LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

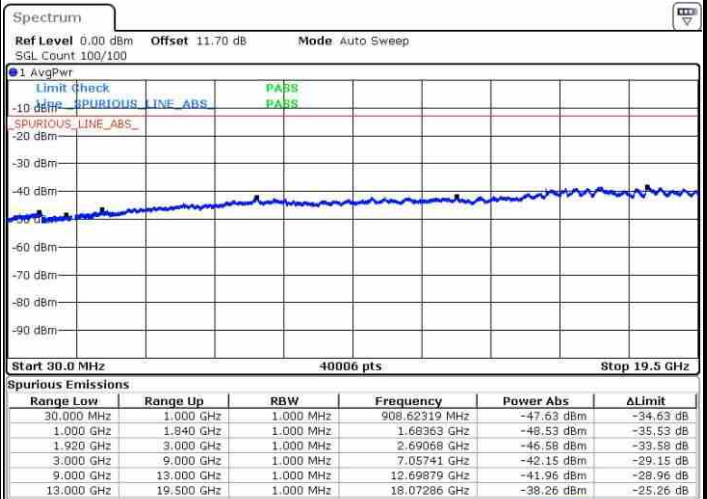
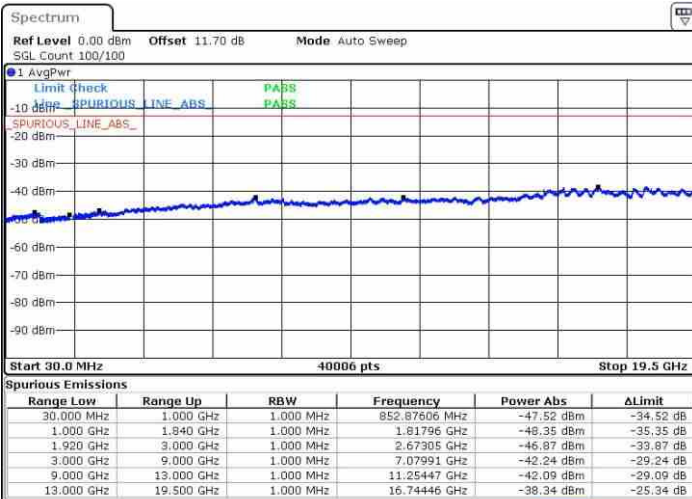


Date: 19.FEB 2016 21:44:59

Date: 19.FEB 2016 21:45:54

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.FEB 2016 21:52:08

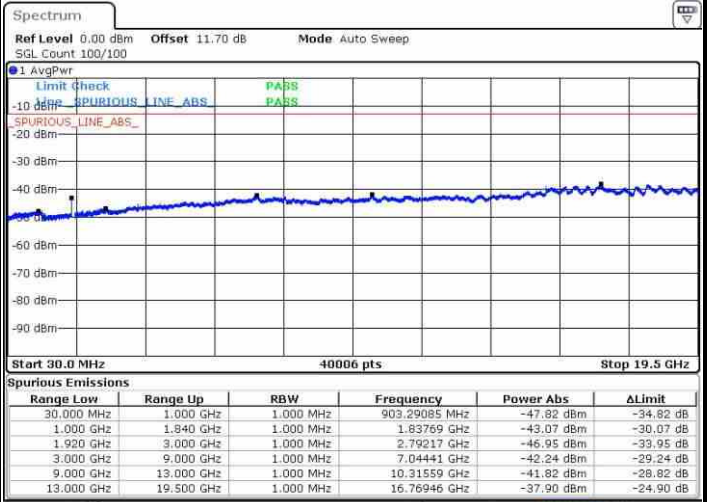
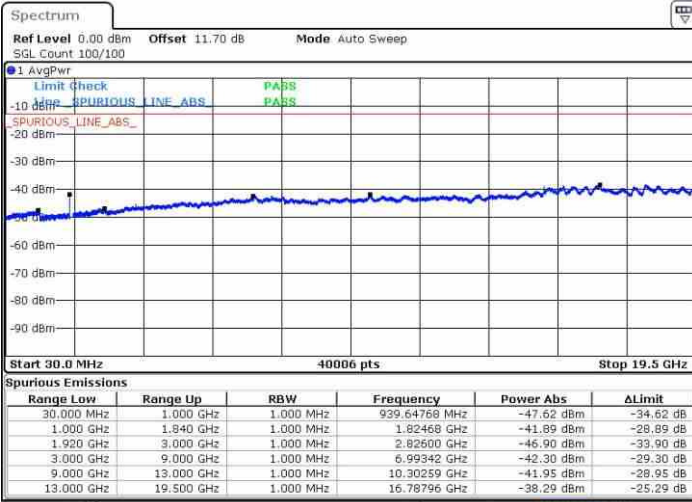
Date: 19.FEB 2016 21:53:03



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

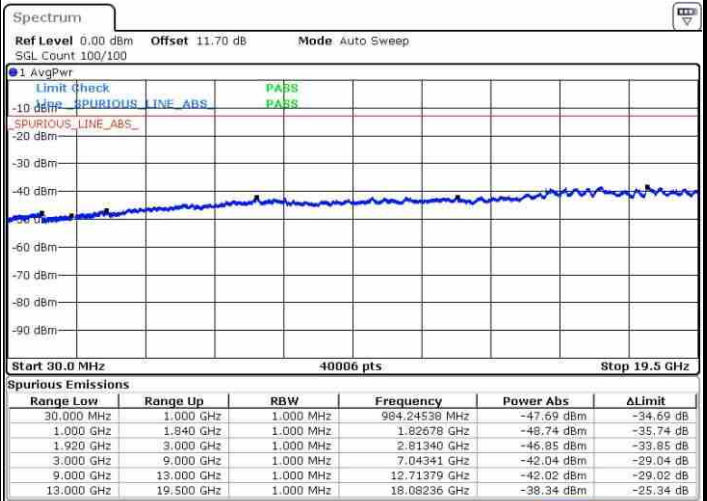
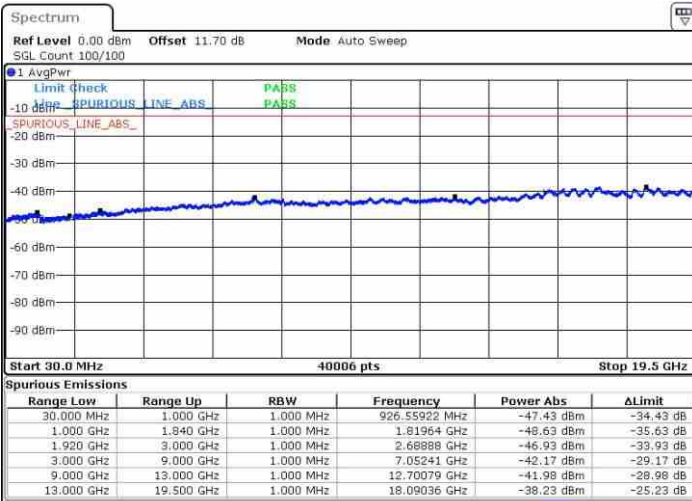


Date: 19.FEB 2016 21:59:17

Date: 19.FEB 2016 22:00:12

Middle Channel / QPSK

Middle Channel / 16QAM



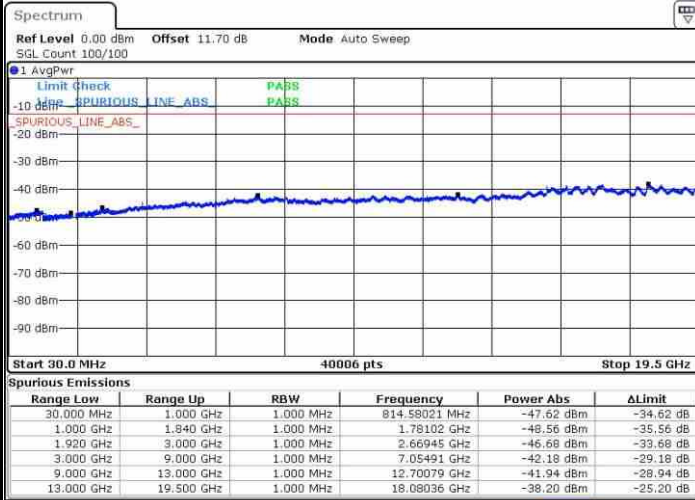
Date: 19.FEB 2016 22:01:49

Date: 19.FEB 2016 22:02:44



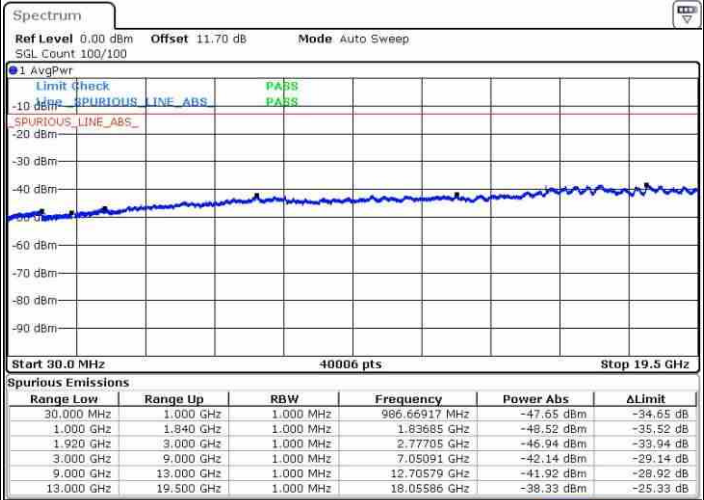
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 19.FEB 2016 22:08:58

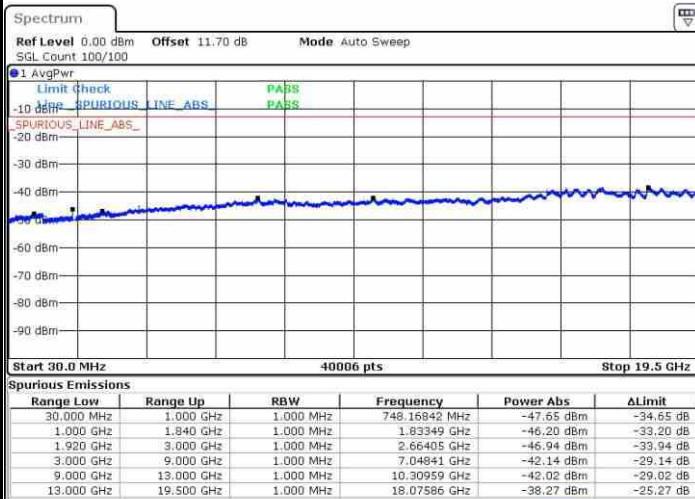
Highest Channel / 16QAM



Date: 19.FEB 2016 22:09:53

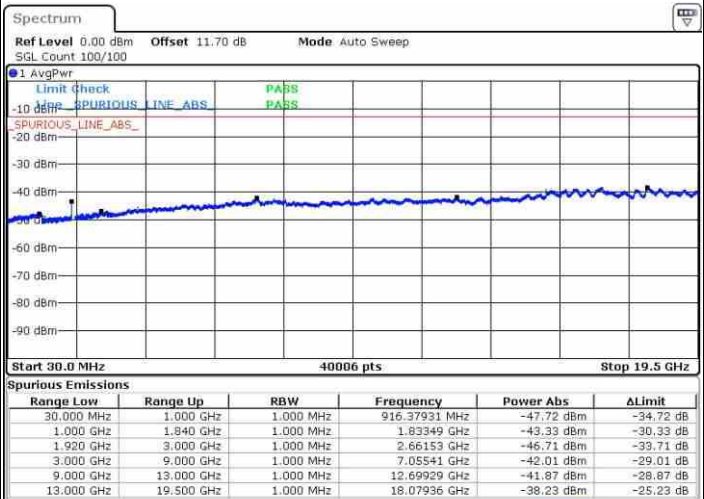
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 19.FEB 2016 22:16:07

Lowest Channel / 16QAM



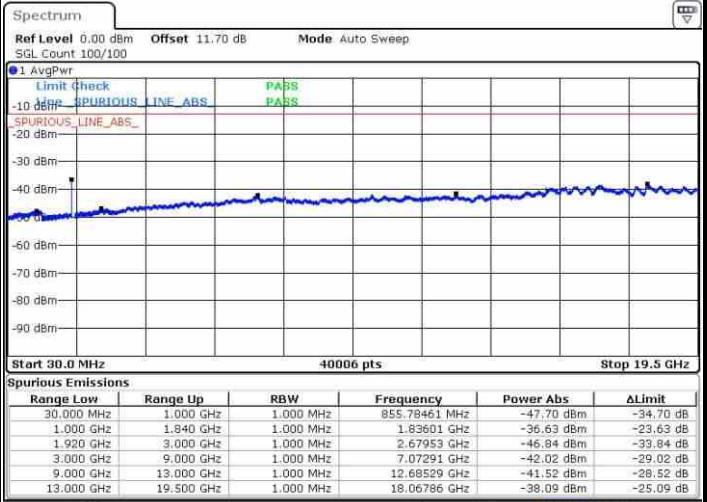
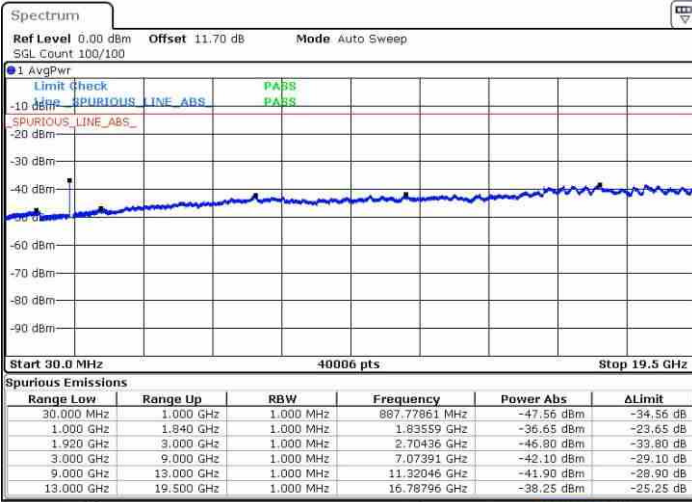
Date: 19.FEB 2016 22:17:01



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

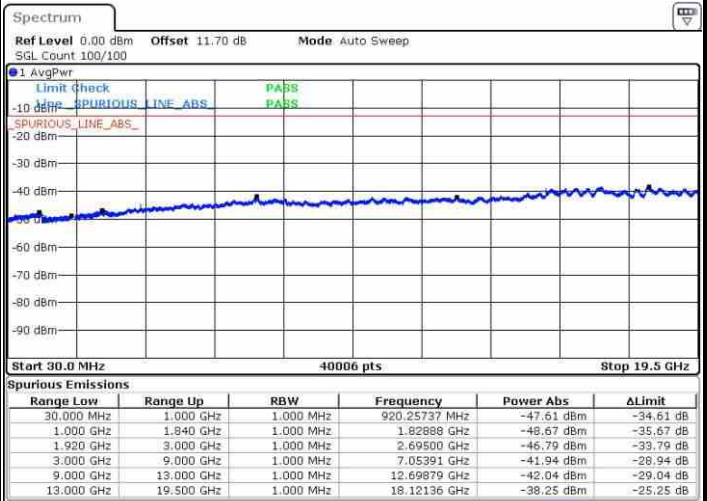
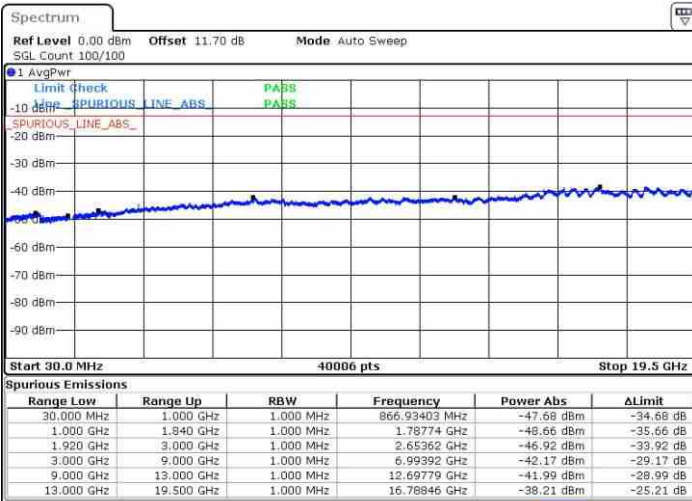


Date: 19.FEB 2016 22:18:39

Date: 19.FEB 2016 22:19:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19.FEB 2016 22:25:48

Date: 19.FEB 2016 22:26:43





**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	0.0021	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35V
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	3.88	4.72	4.78	5.65	PASS
Middle CH	3.57	4.72	4.9	5.59	
Highest CH	3.54	4.87	4.72	5.83	



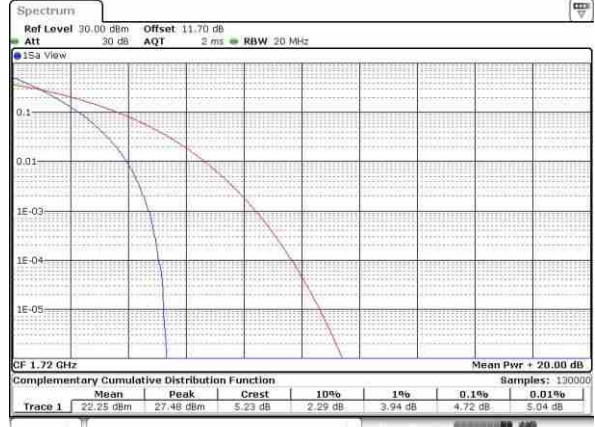
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



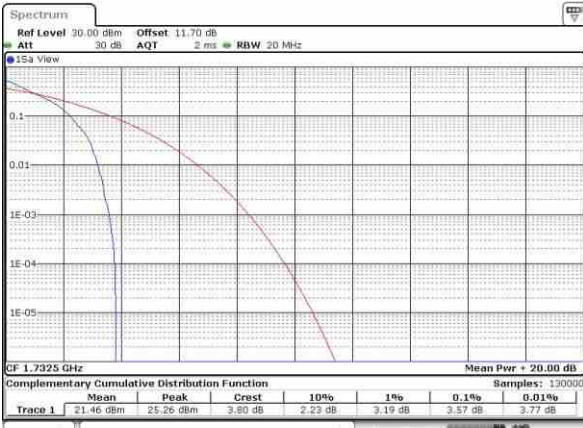
Date: 22.FEB.2016 16:56:14

Lowest Channel / Full RB



Date: 22.FEB.2016 16:56:25

Middle Channel / 1RB



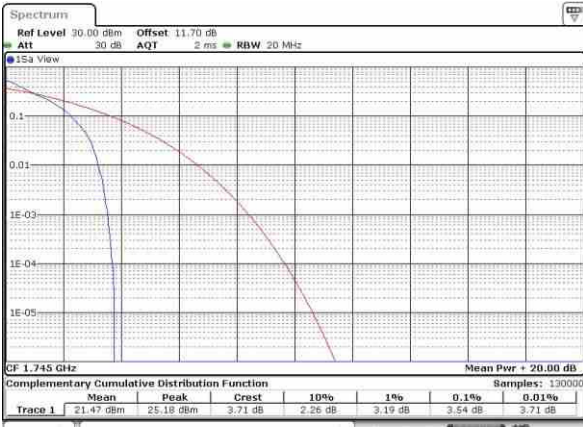
Date: 22.FEB.2016 16:56:49

Middle Channel / Full RB



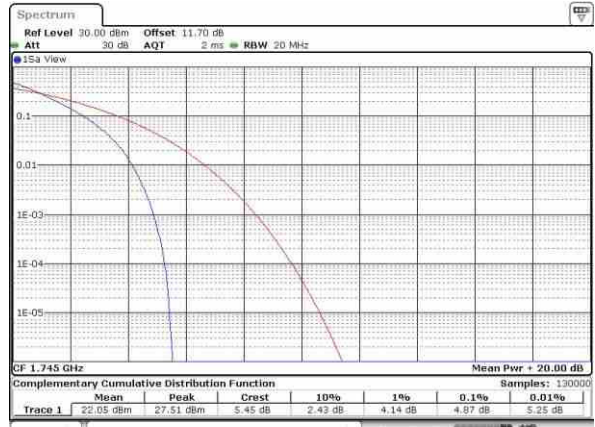
Date: 22.FEB.2016 16:57:00

Highest Channel / 1RB



Date: 22.FEB.2016 16:57:15

Highest Channel / Full RB



Date: 22.FEB.2016 16:57:33



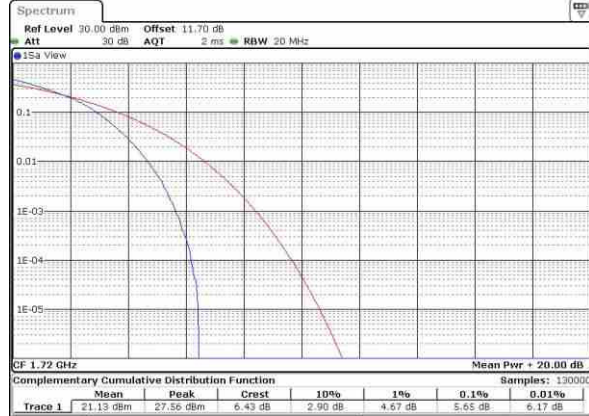
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 22.FEB.2016 16:55:13

Lowest Channel / Full RB



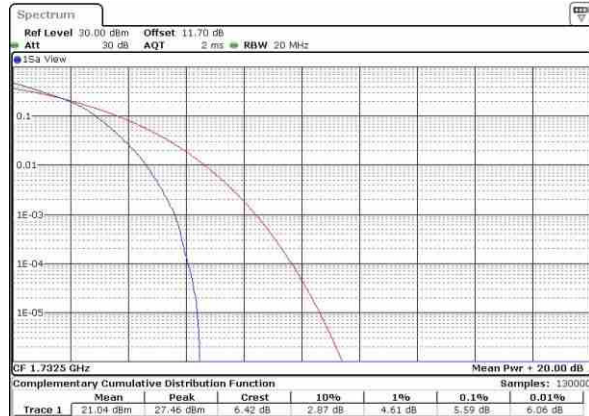
Date: 22.FEB.2016 16:55:23

Middle Channel / 1RB



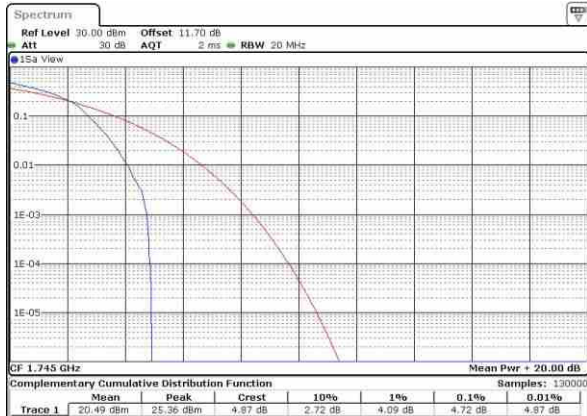
Date: 22.FEB.2016 16:55:35

Middle Channel / Full RB



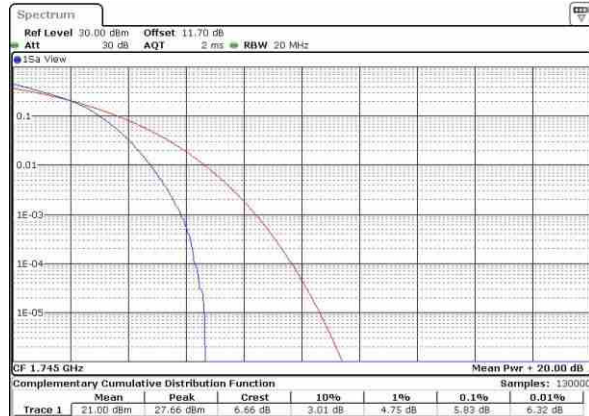
Date: 22.FEB.2016 16:55:45

Highest Channel / 1RB



Date: 22.FEB.2016 16:55:55

Highest Channel / Full RB



Date: 22.FEB.2016 16:56:05



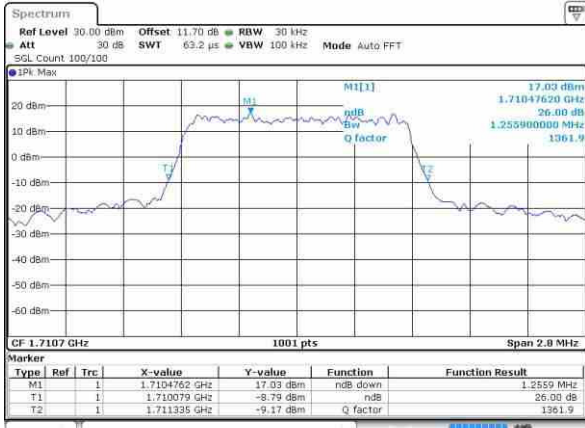
**26dB Bandwidth**

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	1.26	1.28	2.98	2.99	4.94	4.87	9.93	9.81	14.33	14.54	20.18	20.14
Middle CH	1.26	1.27	3.01	2.99	5.07	4.99	9.91	9.69	14.48	14.54	20.18	20.18
Highest CH	1.26	1.27	2.98	2.99	4.94	4.97	9.89	10.01	14.54	14.51	20.22	20.06



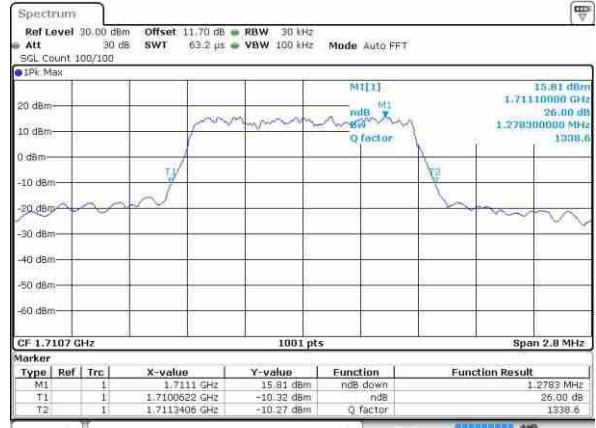
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



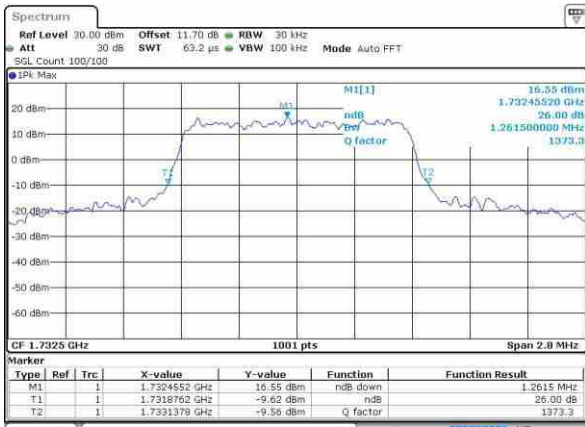
Date: 22 FEB 2016 16:37:33

Lowest Channel / 1.4MHz / 16QAM



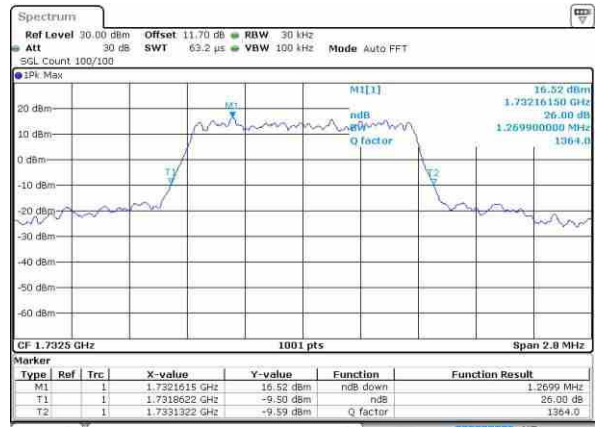
Date: 22 FEB 2016 16:37:44

Middle Channel / 1.4MHz / QPSK



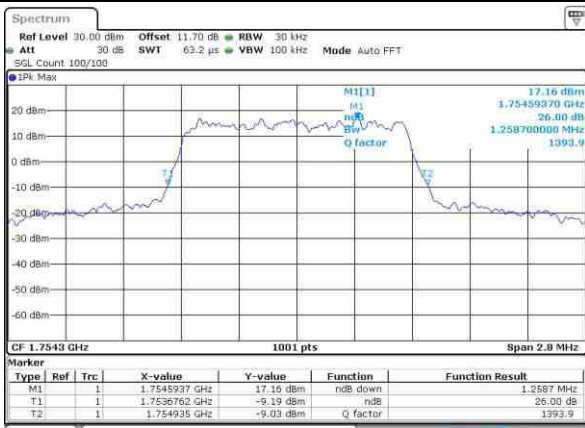
Date: 22 FEB 2016 16:44:41

Middle Channel / 1.4MHz / 16QAM



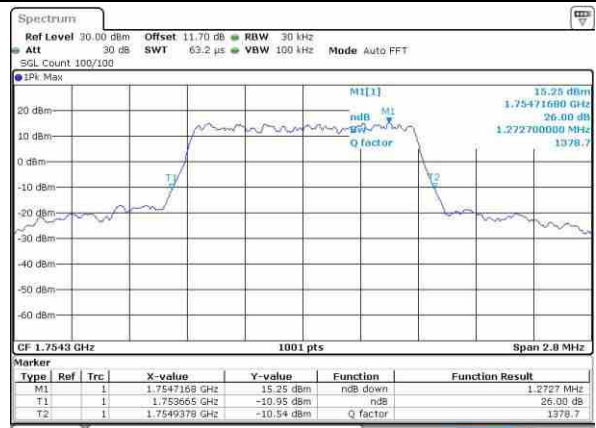
Date: 22 FEB 2016 16:44:51

Highest Channel / 1.4MHz / QPSK



Date: 22 FEB 2016 16:47:12

Highest Channel / 1.4MHz / 16QAM

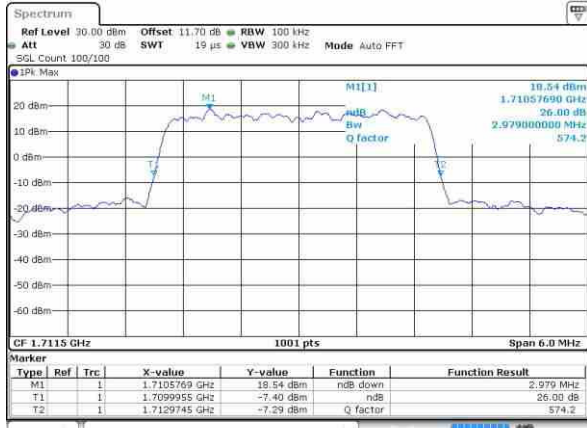


Date: 22 FEB 2016 16:47:22



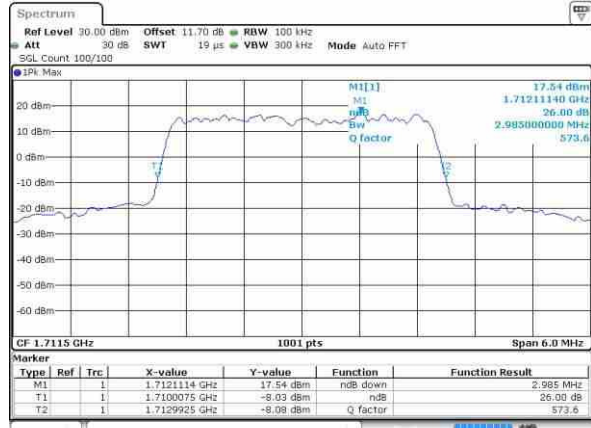
LTE Band 4

Lowest Channel / 3MHz / QPSK



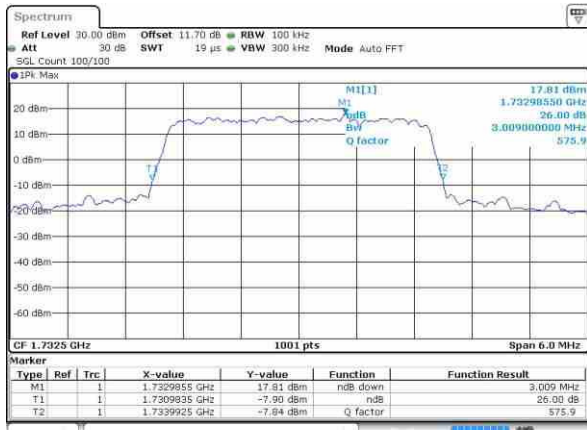
Date: 22.FEB.2016 15:13:31

Lowest Channel / 3MHz / 16QAM



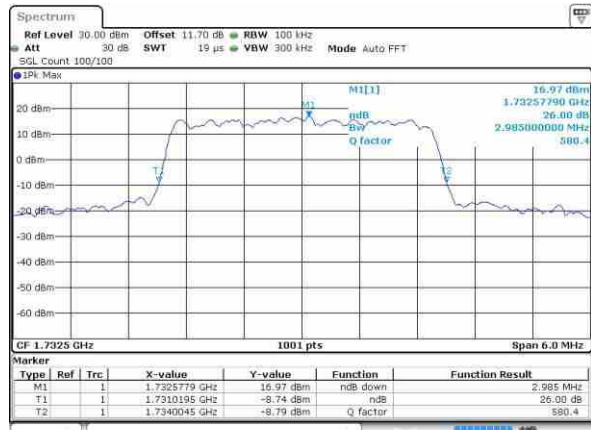
Date: 22.FEB.2016 15:13:42

Middle Channel / 3MHz / QPSK



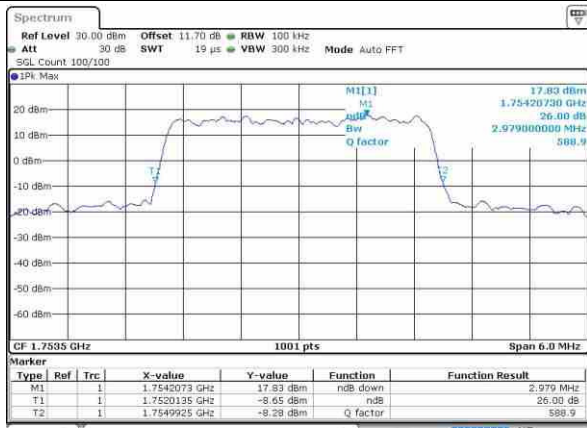
Date: 22.FEB.2016 15:20:40

Middle Channel / 3MHz / 16QAM



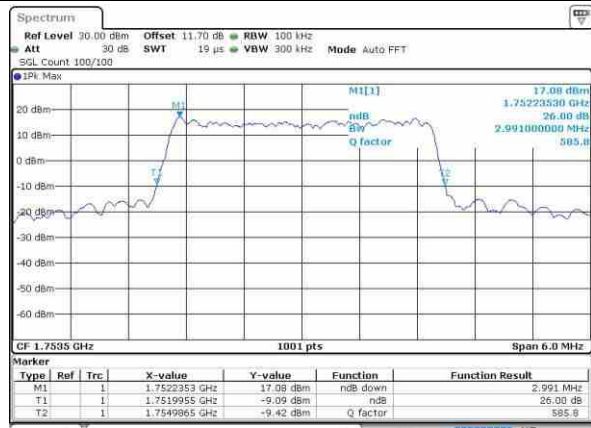
Date: 22.FEB.2016 15:20:50

Highest Channel / 3MHz / QPSK



Date: 22.FEB.2016 15:23:11

Highest Channel / 3MHz / 16QAM

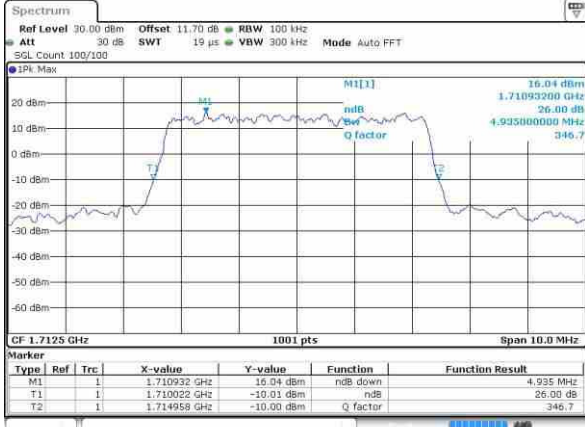


Date: 22.FEB.2016 15:23:22



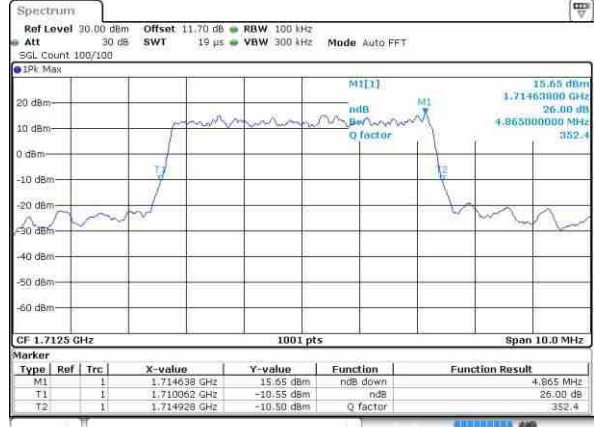
LTE Band 4

Lowest Channel / 5MHz / QPSK



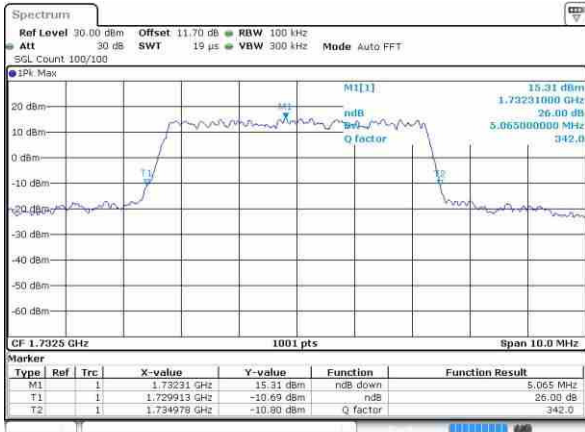
Date: 22 FEB 2016 15:30:20

Lowest Channel / 5MHz / 16QAM



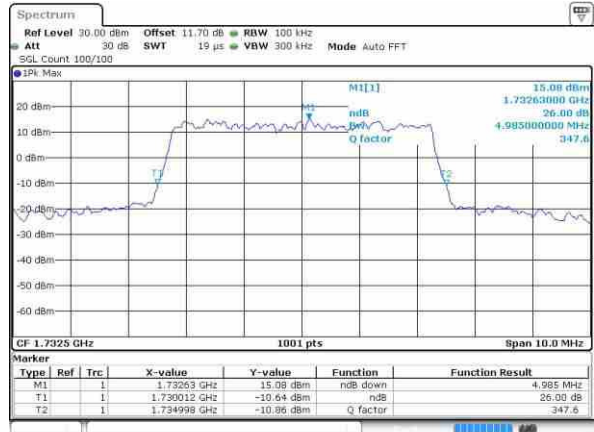
Date: 22 FEB 2016 15:30:30

Middle Channel / 5MHz / QPSK



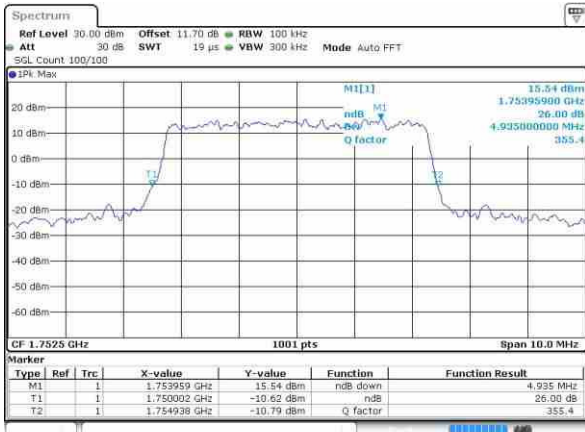
Date: 22 FEB 2016 15:37:28

Middle Channel / 5MHz / 16QAM



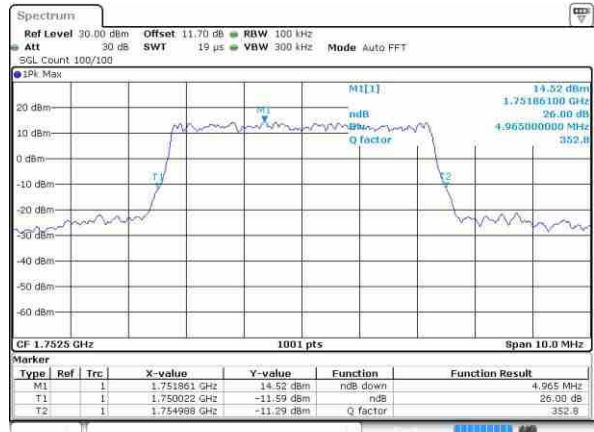
Date: 22 FEB 2016 15:37:39

Highest Channel / 5MHz / QPSK



Date: 22 FEB 2016 15:40:00

Highest Channel / 5MHz / 16QAM



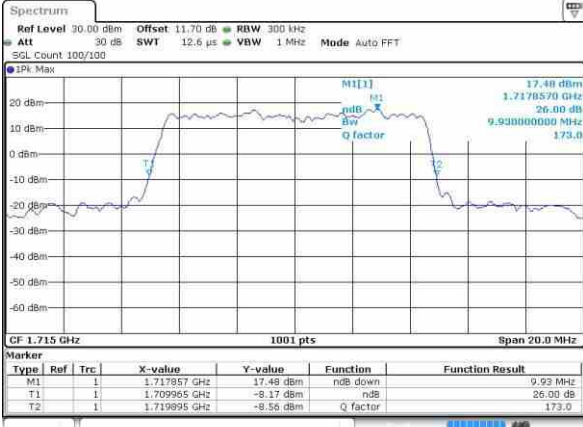
Date: 22 FEB 2016 15:40:10





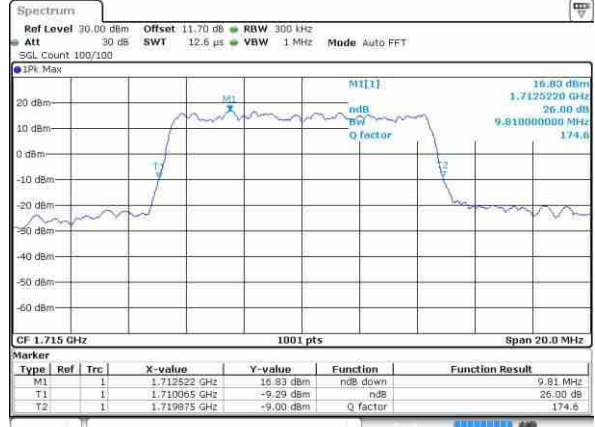
LTE Band 4

Lowest Channel / 10MHz / QPSK



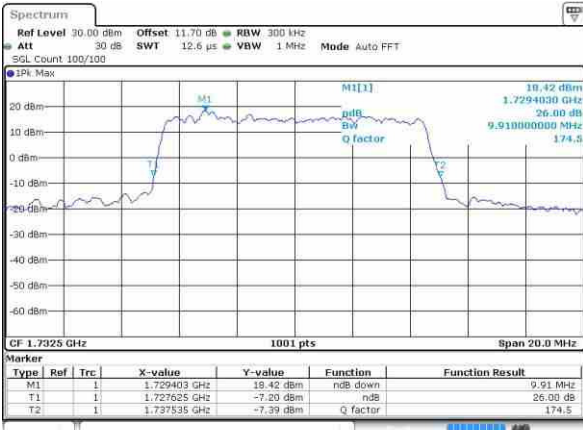
Date: 22 FEB 2016 15:47:08

Lowest Channel / 10MHz / 16QAM



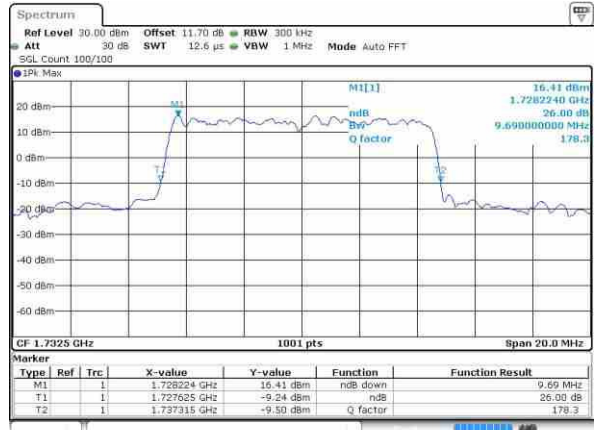
Date: 22 FEB 2016 15:47:19

Middle Channel / 10MHz / QPSK



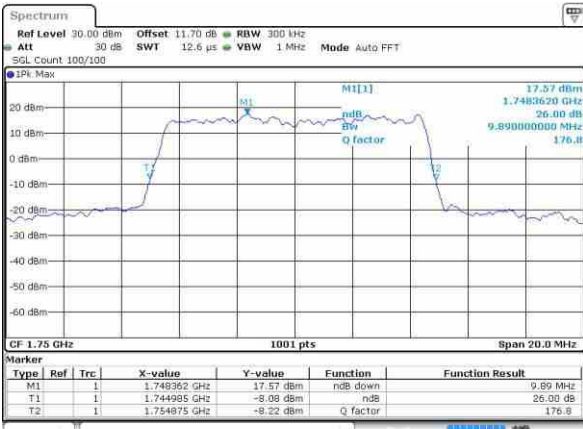
Date: 22 FEB 2016 15:54:17

Middle Channel / 10MHz / 16QAM



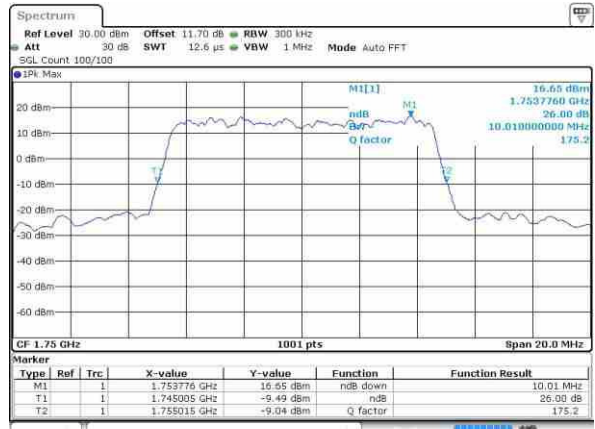
Date: 22 FEB 2016 15:54:28

Highest Channel / 10MHz / QPSK



Date: 22 FEB 2016 15:56:48

Highest Channel / 10MHz / 16QAM

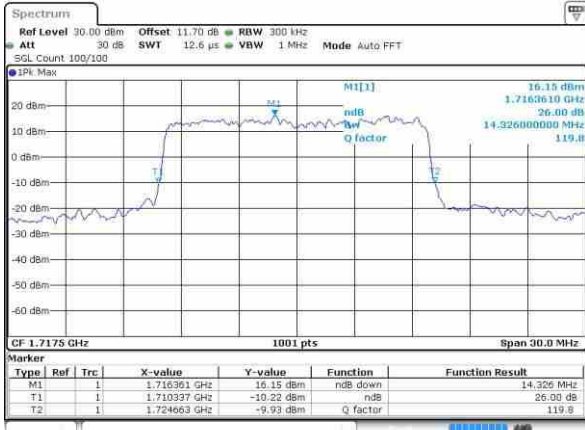


Date: 22 FEB 2016 15:56:59



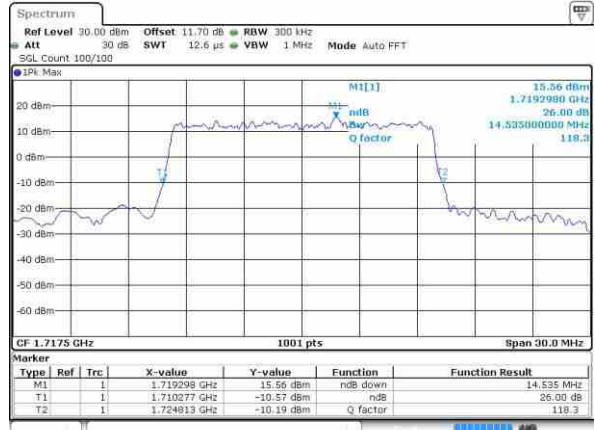
LTE Band 4

Lowest Channel / 15MHz / QPSK



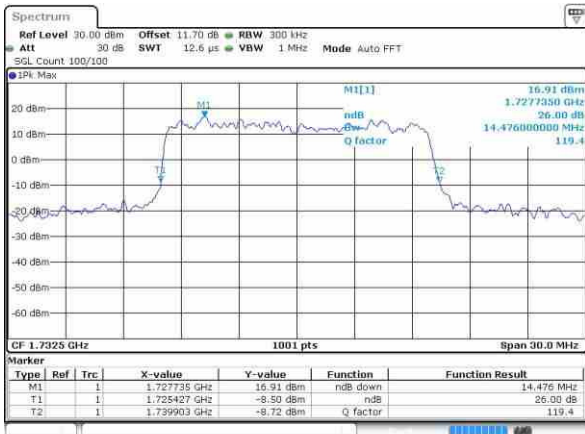
Date: 22.FEB.2016 16:03:57

Lowest Channel / 15MHz / 16QAM



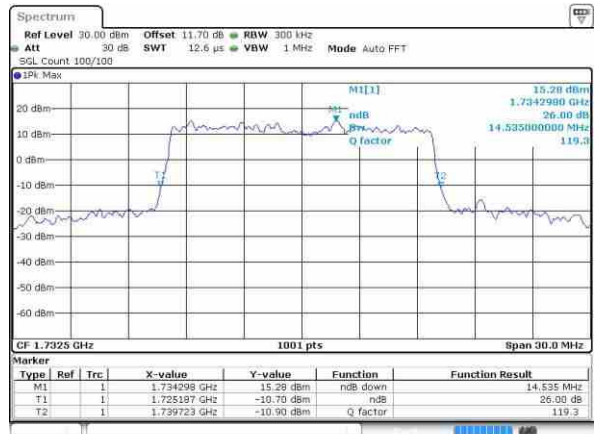
Date: 22.FEB.2016 16:04:08

Middle Channel / 15MHz / QPSK



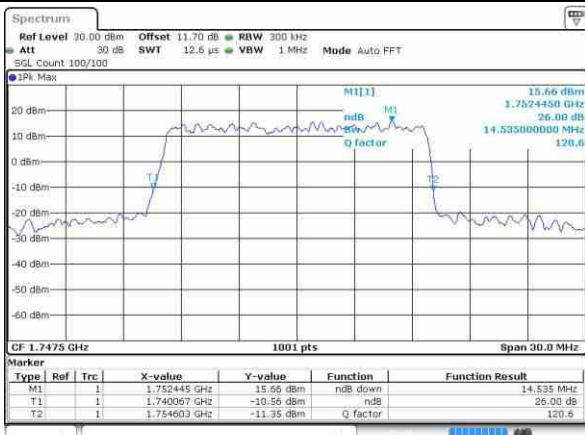
Date: 22.FEB.2016 16:11:08

Middle Channel / 15MHz / 16QAM



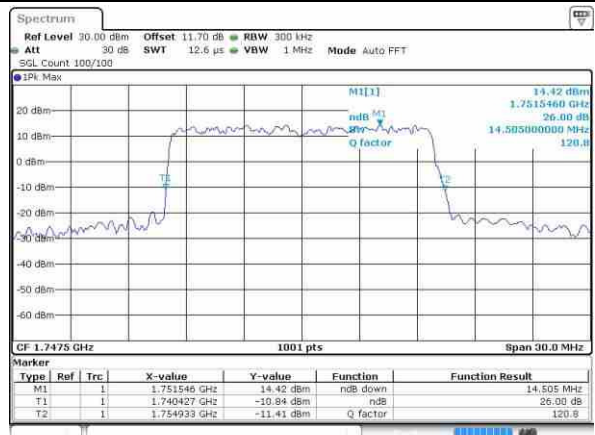
Date: 22.FEB.2016 16:11:17

Highest Channel / 15MHz / QPSK



Date: 22.FEB.2016 16:13:38

Highest Channel / 15MHz / 16QAM

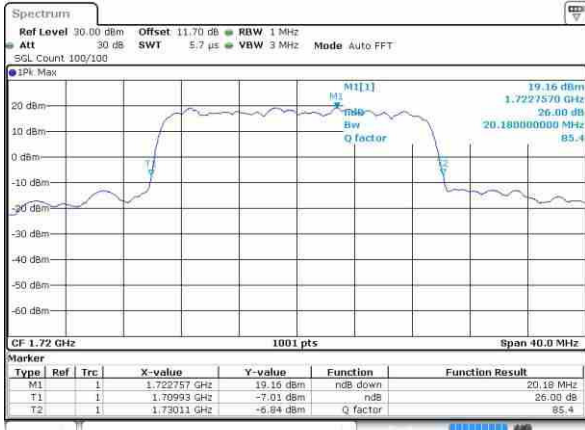


Date: 22.FEB.2016 16:13:48



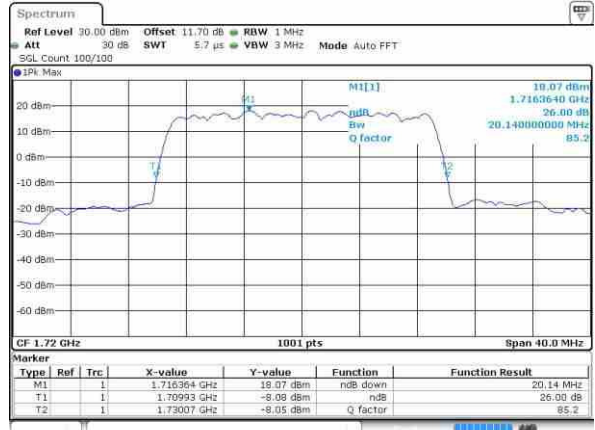
LTE Band 4

Lowest Channel / 20MHz / QPSK



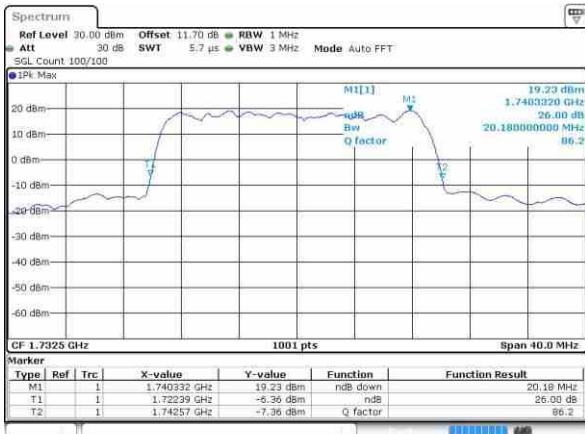
Date: 22 FEB 2016 16:20:46

Lowest Channel / 20MHz / 16QAM



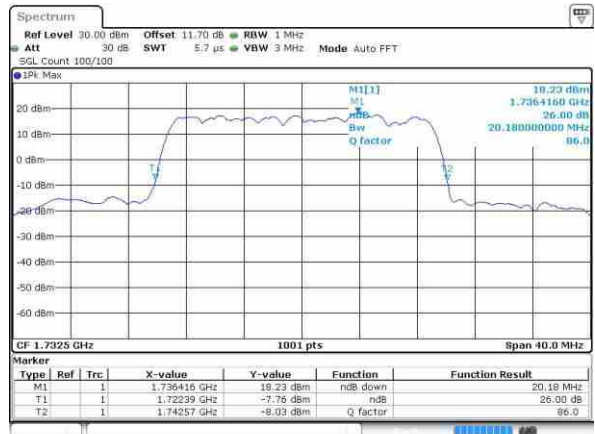
Date: 22 FEB 2016 16:20:57

Middle Channel / 20MHz / QPSK



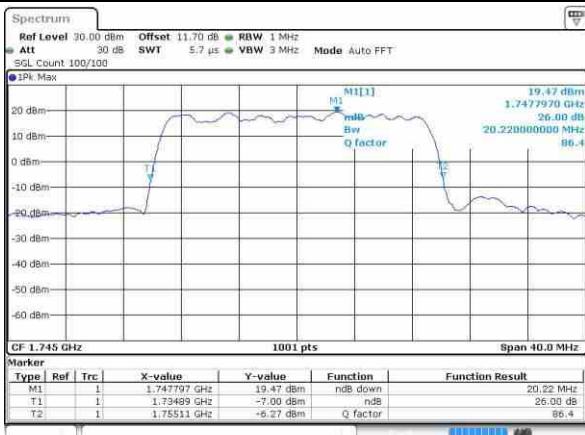
Date: 22 FEB 2016 16:27:54

Middle Channel / 20MHz / 16QAM



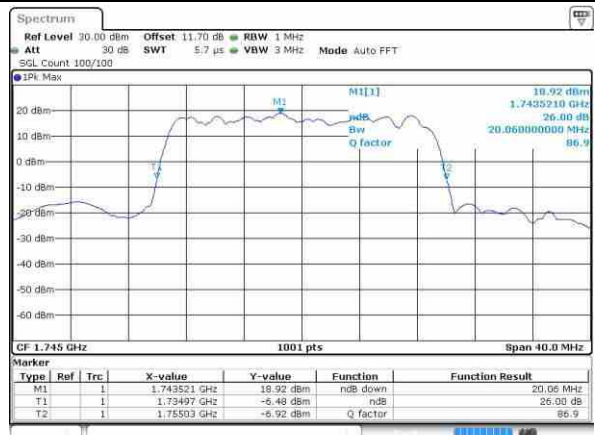
Date: 22 FEB 2016 16:28:05

Highest Channel / 20MHz / QPSK



Date: 22 FEB 2016 16:30:25

Highest Channel / 20MHz / 16QAM



Date: 22 FEB 2016 16:30:36



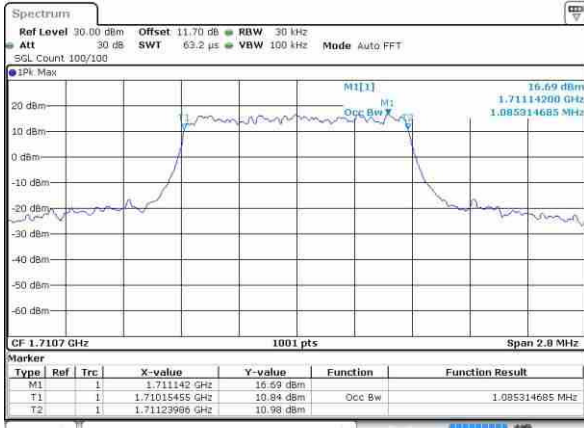
### Occupied Bandwidth

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	2.7	2.72	4.51	4.53	9.07	9.03	13.43	13.4	18.34	18.38
Middle CH	1.1	1.1	2.73	2.72	4.5	4.52	9.01	9.03	13.52	13.49	18.34	18.5
Highest CH	1.09	1.09	2.72	2.71	4.52	4.49	9.05	9.05	13.34	13.43	18.46	18.54



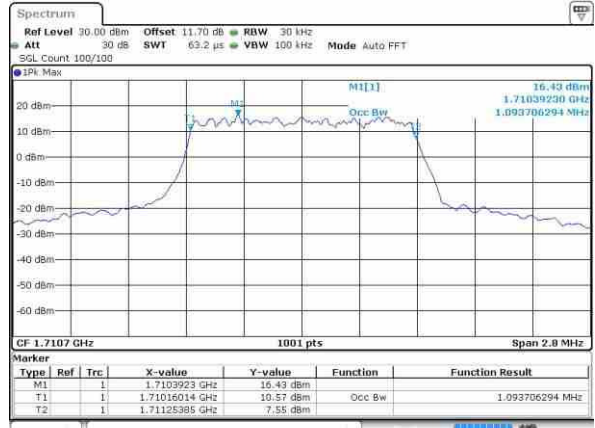
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



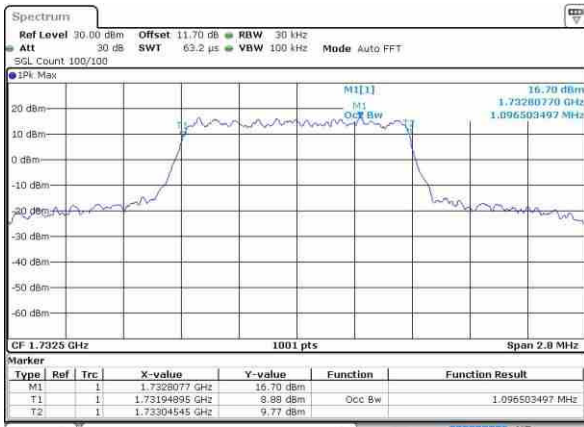
Date: 22 FEB 2016 16:37:12

Lowest Channel / 1.4MHz / 16QAM



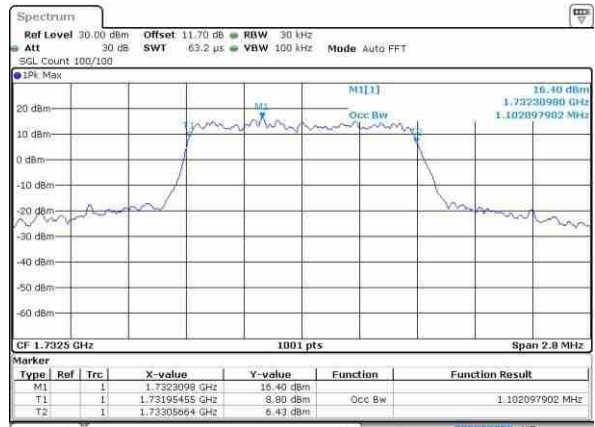
Date: 22 FEB 2016 16:37:23

Middle Channel / 1.4MHz / QPSK



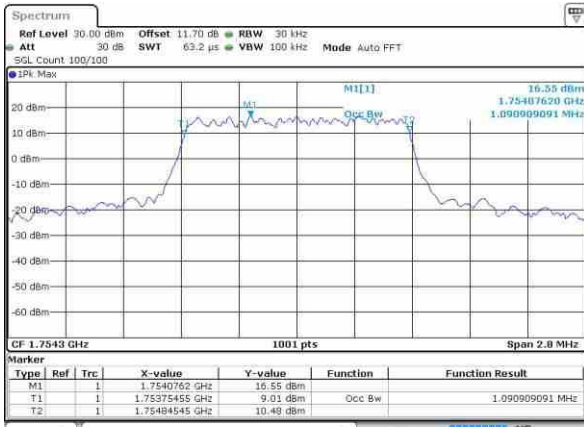
Date: 22 FEB 2016 16:44:20

Middle Channel / 1.4MHz / 16QAM



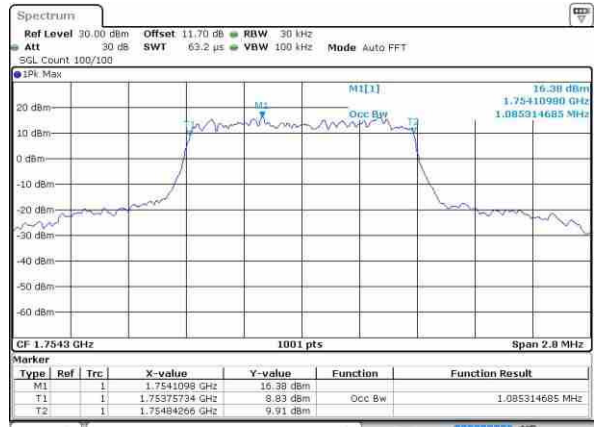
Date: 22 FEB 2016 16:44:30

Highest Channel / 1.4MHz / QPSK



Date: 22 FEB 2016 16:46:51

Highest Channel / 1.4MHz / 16QAM

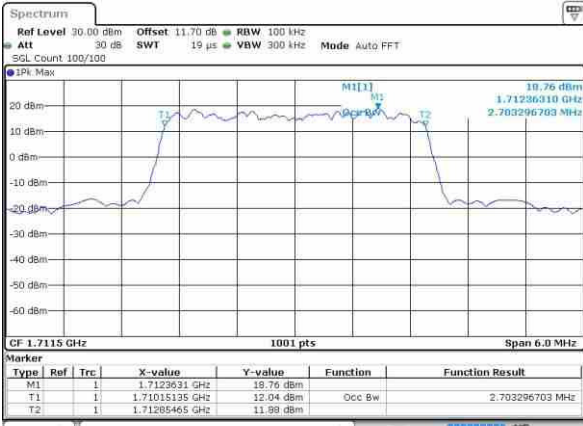


Date: 22 FEB 2016 16:47:01



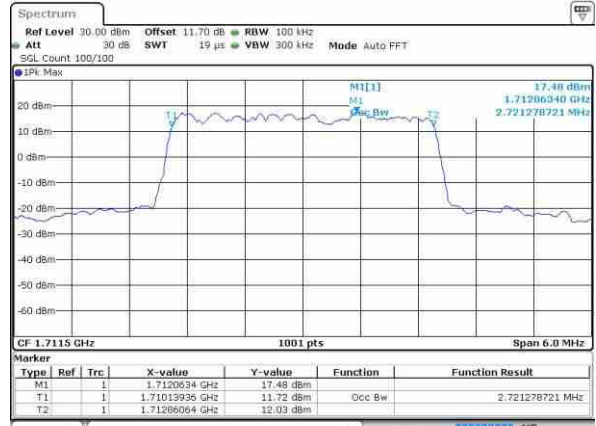
LTE Band 4

Lowest Channel / 3MHz / QPSK



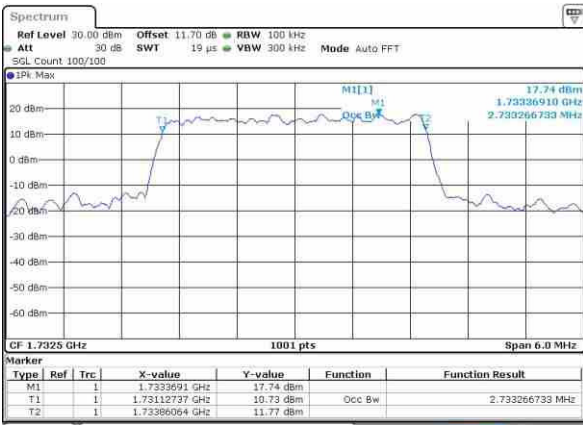
Date: 22.FEB.2016 15:13:10

Lowest Channel / 3MHz / 16QAM



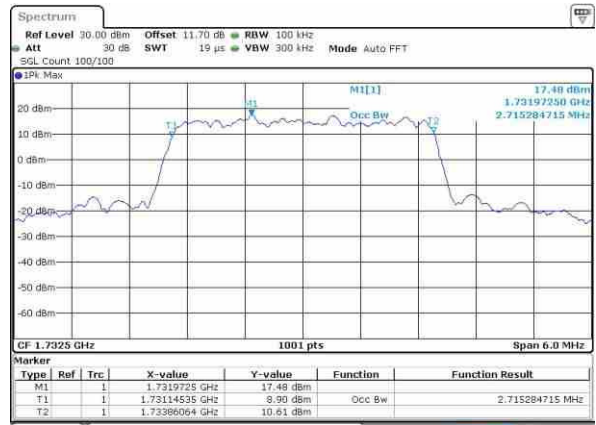
Date: 22.FEB.2016 15:13:21

Middle Channel / 3MHz / QPSK



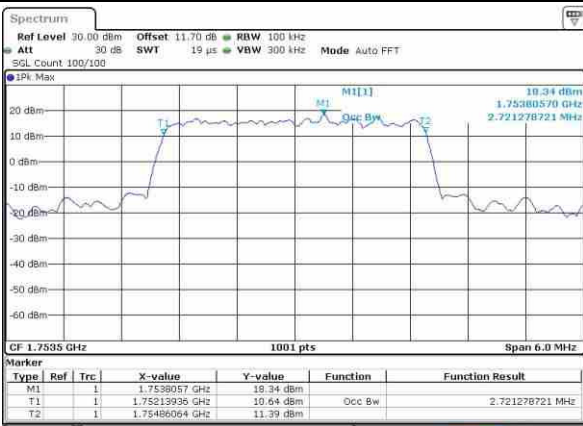
Date: 22.FEB.2016 15:20:19

Middle Channel / 3MHz / 16QAM



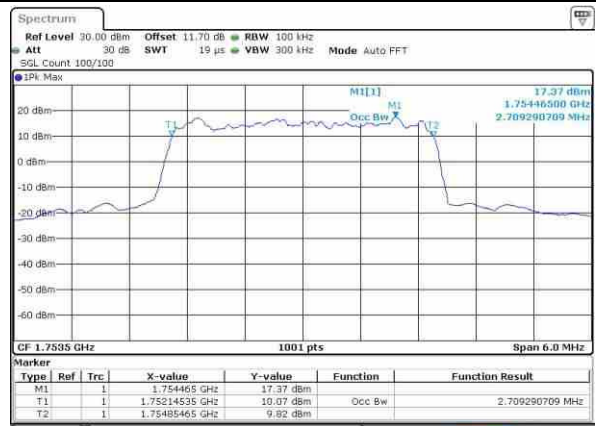
Date: 22.FEB.2016 15:20:29

Highest Channel / 3MHz / QPSK



Date: 22.FEB.2016 15:22:50

Highest Channel / 3MHz / 16QAM

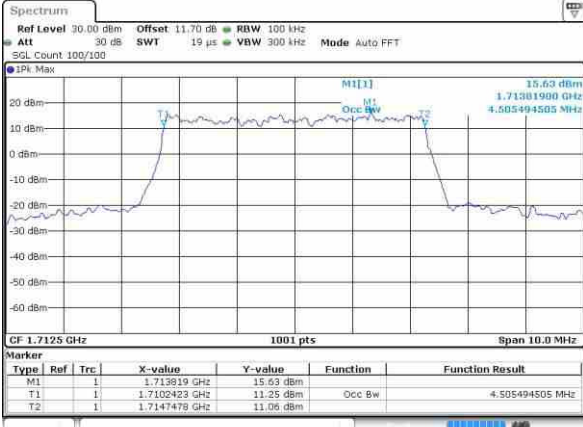


Date: 22.FEB.2016 15:23:01



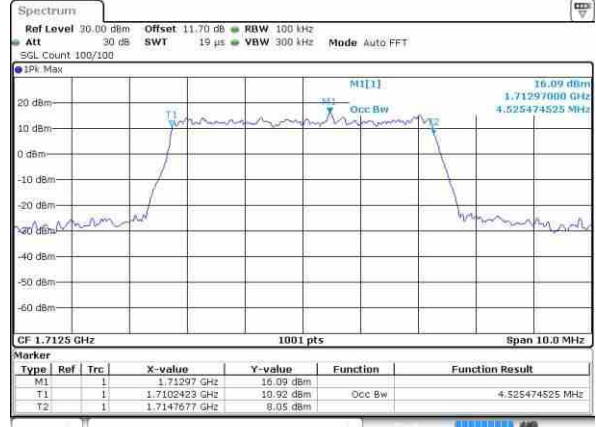
LTE Band 4

Lowest Channel / 5MHz / QPSK



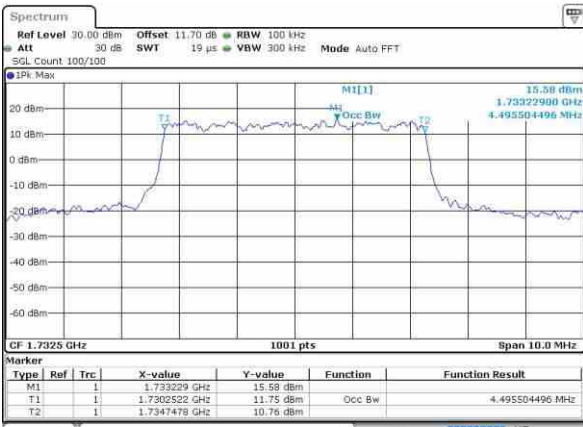
Date: 22 FEB 2016 15:29:59

Lowest Channel / 5MHz / 16QAM



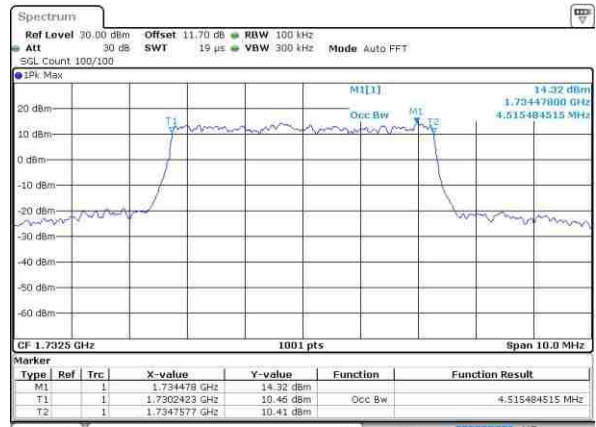
Date: 22 FEB 2016 15:30:09

Middle Channel / 5MHz / QPSK



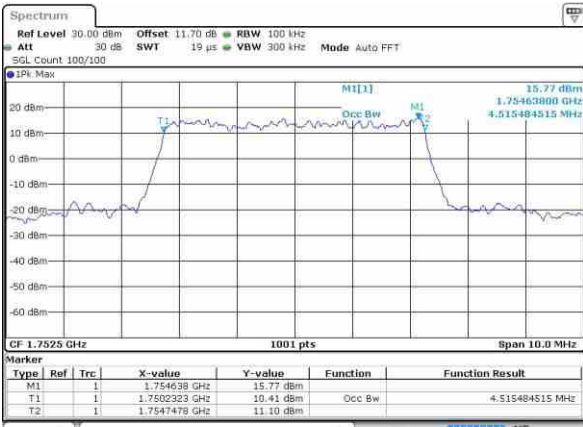
Date: 22 FEB 2016 15:37:07

Middle Channel / 5MHz / 16QAM



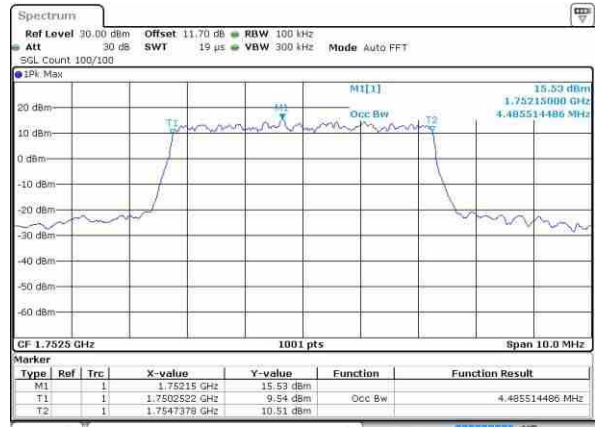
Date: 22 FEB 2016 15:37:18

Highest Channel / 5MHz / QPSK



Date: 22 FEB 2016 15:39:39

Highest Channel / 5MHz / 16QAM

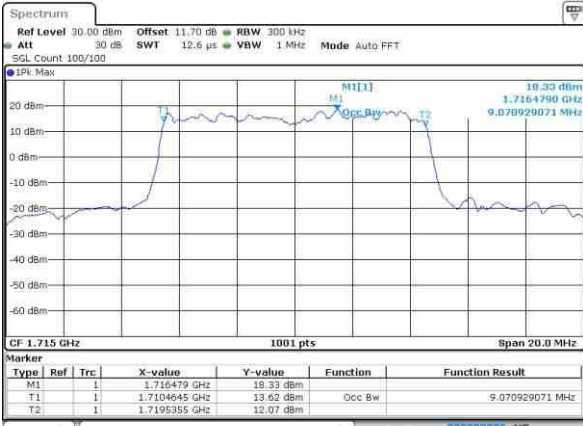


Date: 22 FEB 2016 15:39:49



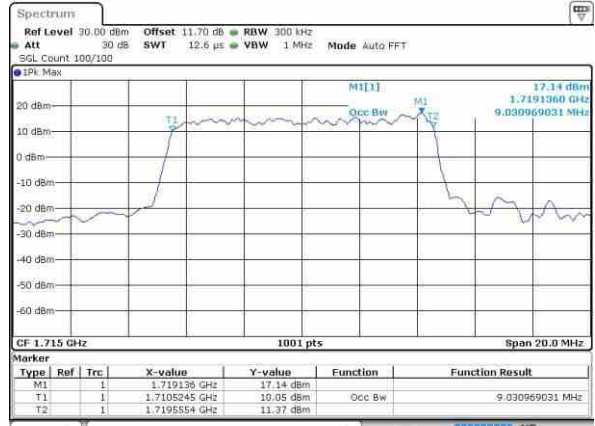
LTE Band 4

Lowest Channel / 10MHz / QPSK



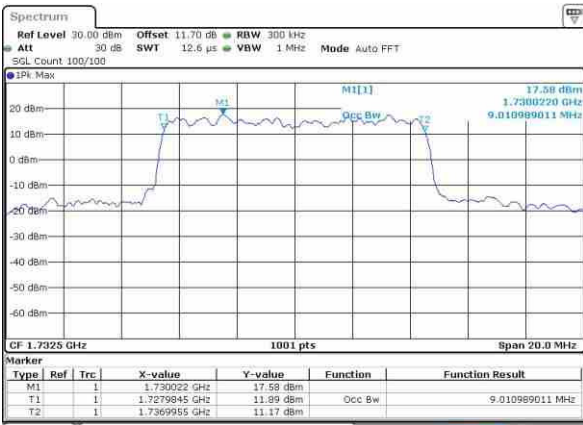
Date: 22 FEB 2016 15:46:47

Lowest Channel / 10MHz / 16QAM



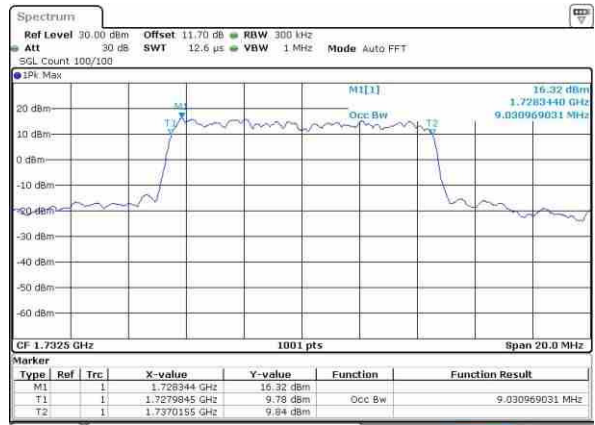
Date: 22 FEB 2016 15:46:58

Middle Channel / 10MHz / QPSK



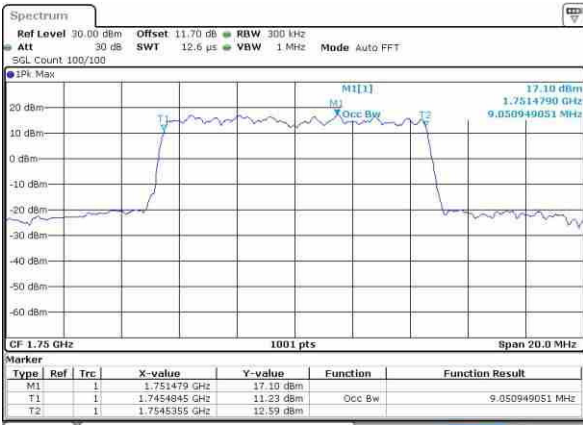
Date: 22 FEB 2016 15:53:56

Middle Channel / 10MHz / 16QAM



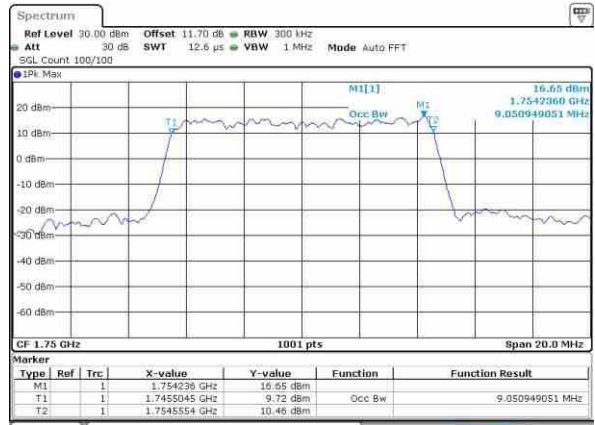
Date: 22 FEB 2016 15:54:07

Highest Channel / 10MHz / QPSK



Date: 22 FEB 2016 15:56:27

Highest Channel / 10MHz / 16QAM



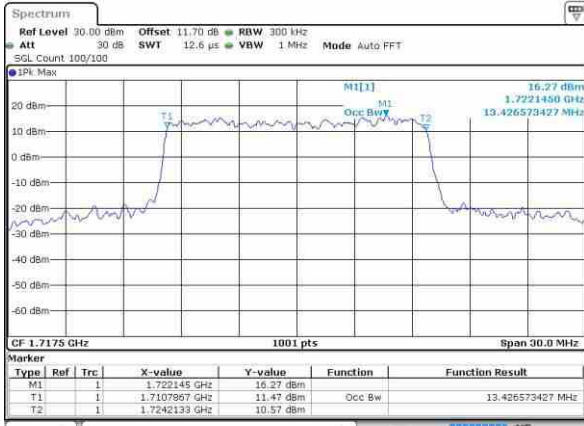
Date: 22 FEB 2016 15:56:38





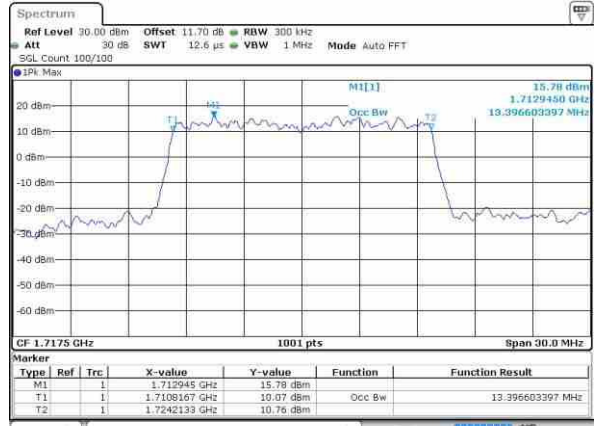
LTE Band 4

Lowest Channel / 15MHz / QPSK



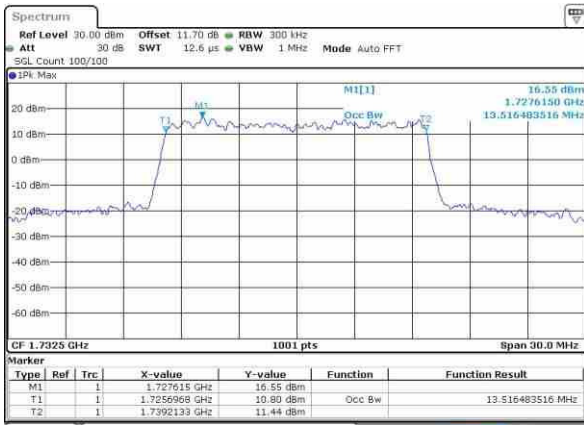
Date: 22 FEB 2016 16:03:36

Lowest Channel / 15MHz / 16QAM



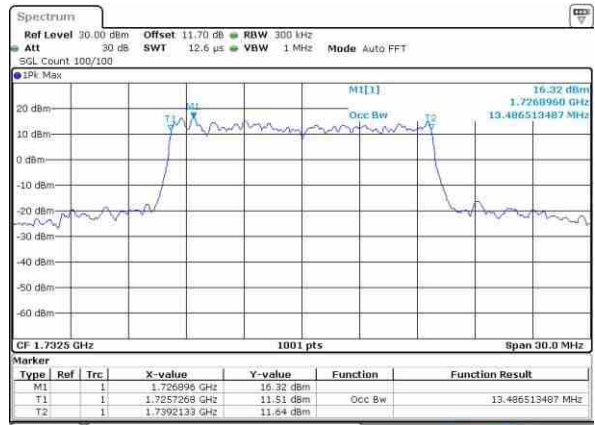
Date: 22 FEB 2016 16:03:47

Middle Channel / 15MHz / QPSK



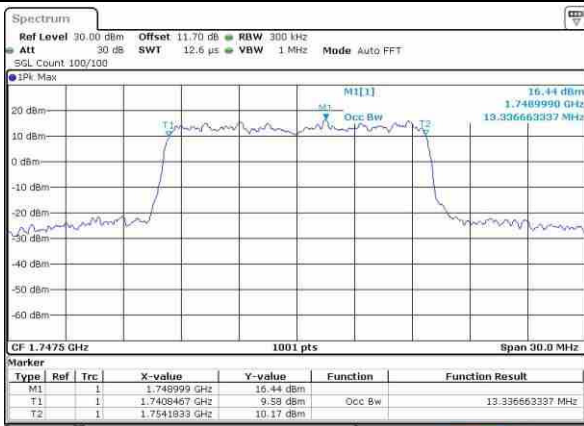
Date: 22 FEB 2016 16:10:45

Middle Channel / 15MHz / 16QAM



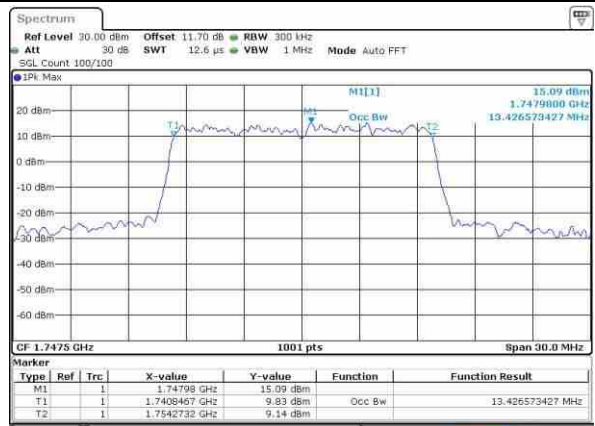
Date: 22 FEB 2016 16:10:56

Highest Channel / 15MHz / QPSK



Date: 22 FEB 2016 16:13:17

Highest Channel / 15MHz / 16QAM

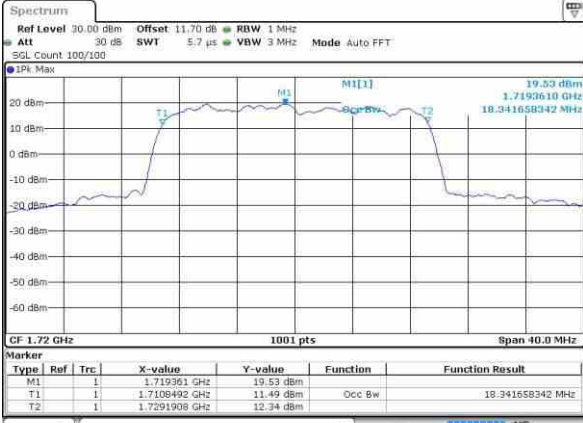


Date: 22 FEB 2016 16:13:27



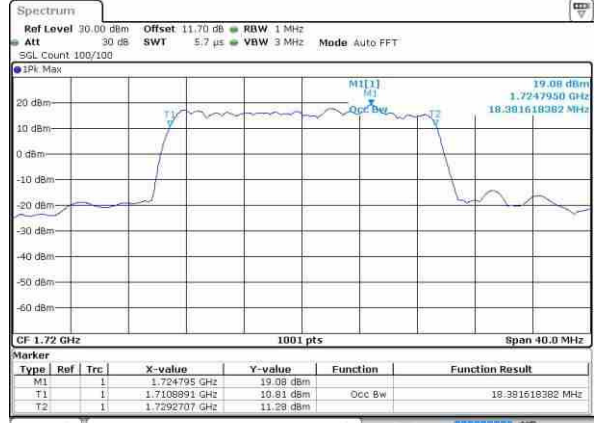
LTE Band 4

Lowest Channel / 20MHz / QPSK



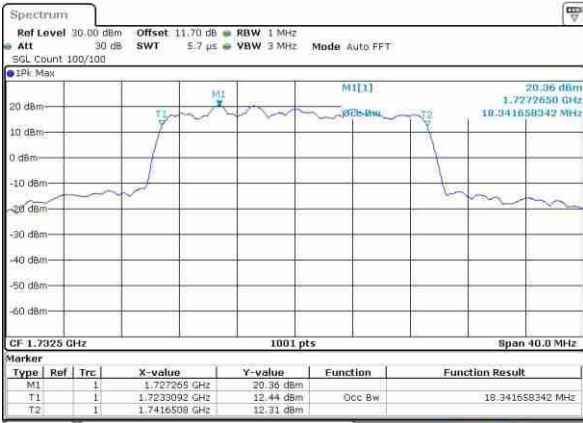
Date: 22 FEB 2016 16:20:25

Lowest Channel / 20MHz / 16QAM



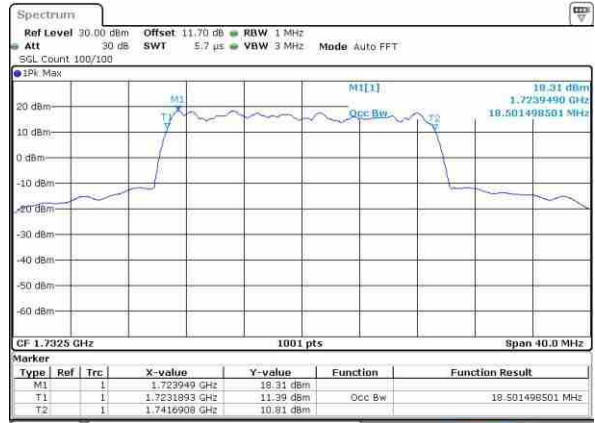
Date: 22 FEB 2016 16:20:38

Middle Channel / 20MHz / QPSK



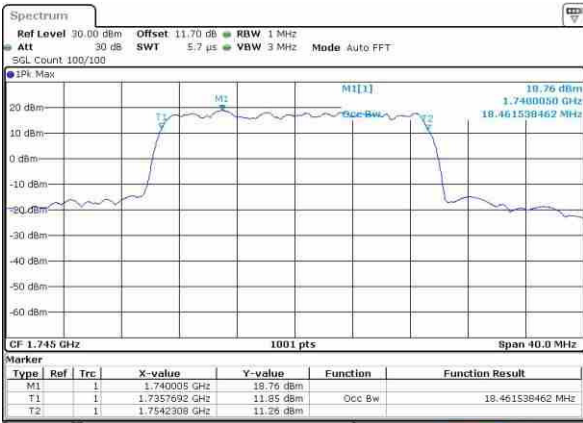
Date: 22 FEB 2016 16:27:33

Middle Channel / 20MHz / 16QAM



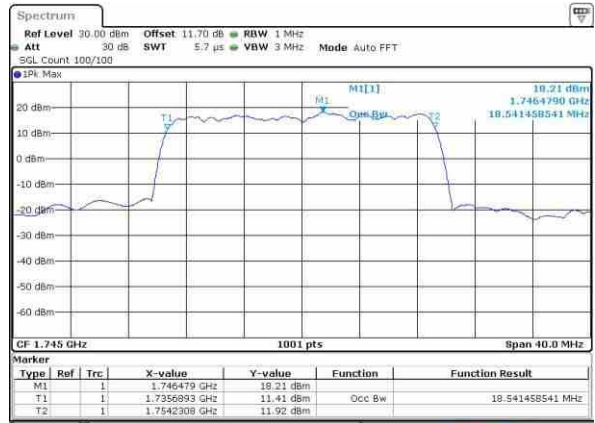
Date: 22 FEB 2016 16:27:44

Highest Channel / 20MHz / QPSK



Date: 22 FEB 2016 16:30:05

Highest Channel / 20MHz / 16QAM



Date: 22 FEB 2016 16:30:15

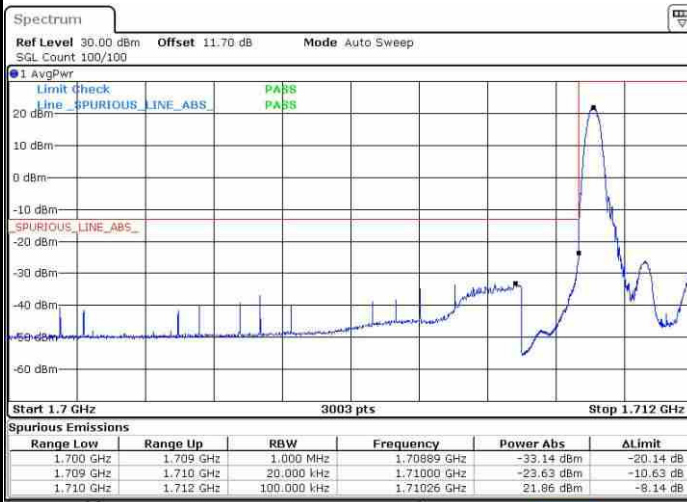


**Conducted Band Edge**



LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



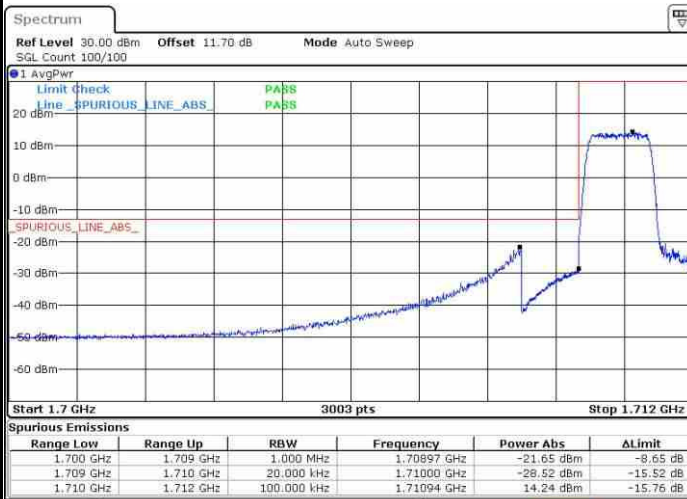
Date: 22.FEB.2016 16:38:52

Highest Band Edge / 1RB



Date: 22.FEB.2016 16:48:31

Lowest Band Edge / Full RB



Date: 22.FEB.2016 16:41:11

Highest Band Edge / Full RB

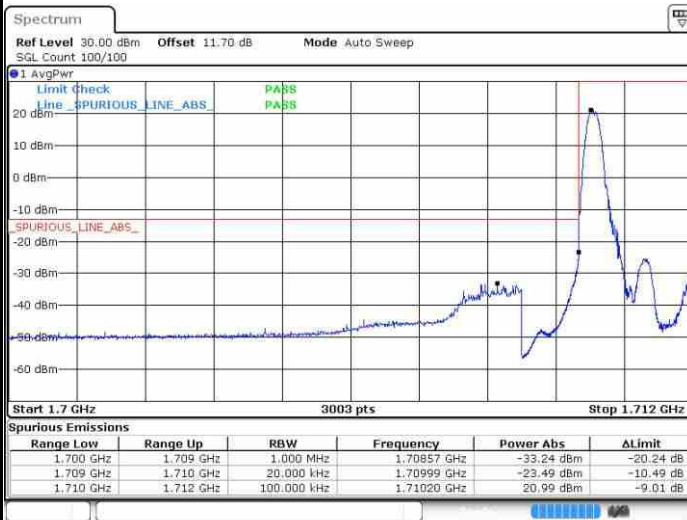


Date: 22.FEB.2016 16:50:49



LTE Band 4 / 1.4MHz / 16QAM

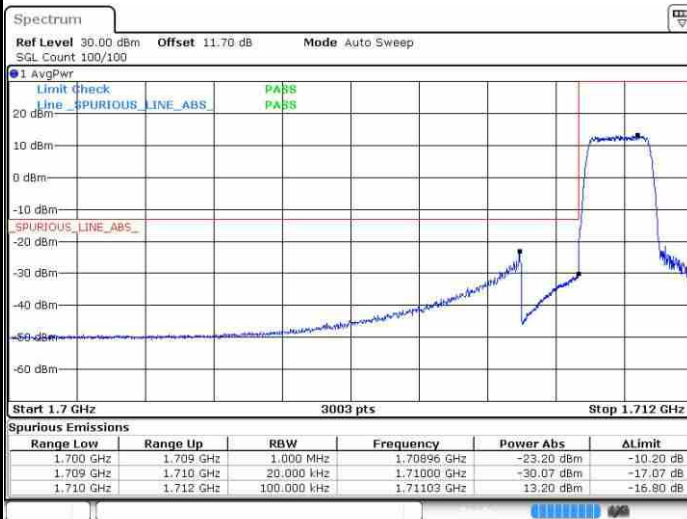
Lowest Band Edge / 1 RB



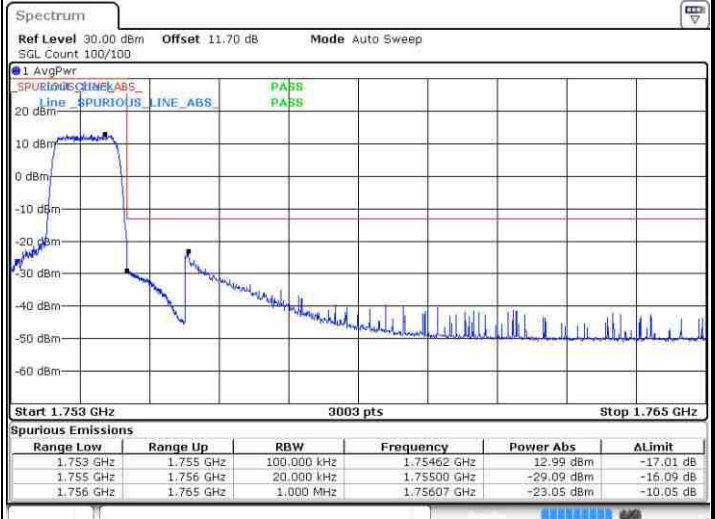
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



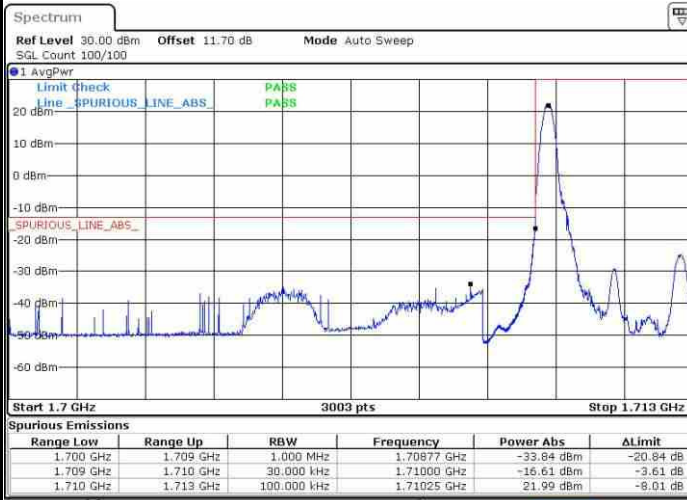
Highest Band Edge / Full RB





LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB



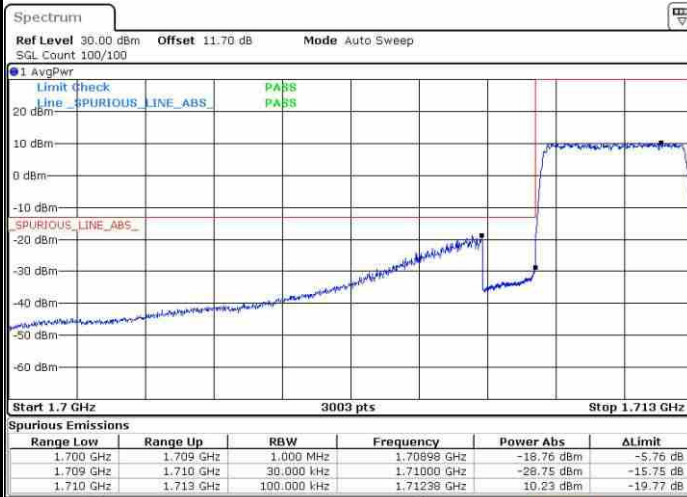
Date: 22.FEB.2016 15:14:51

Highest Band Edge / 1 RB



Date: 22.FEB.2016 17:01:33

Lowest Band Edge / Full RB



Date: 22.FEB.2016 15:17:09

Highest Band Edge / Full RB

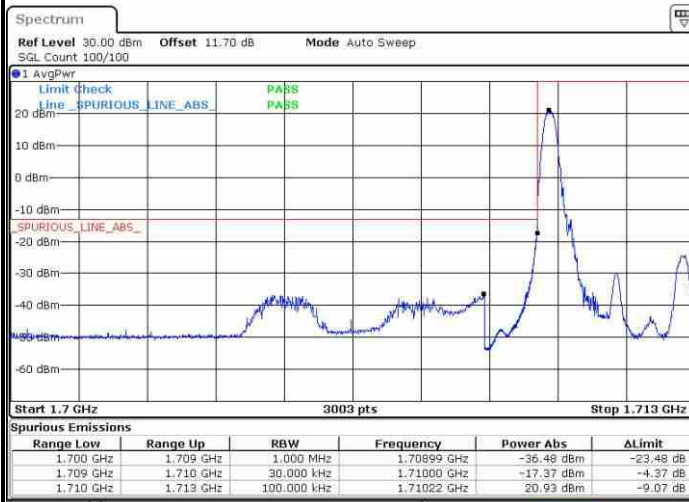


Date: 22.FEB.2016 15:26:49



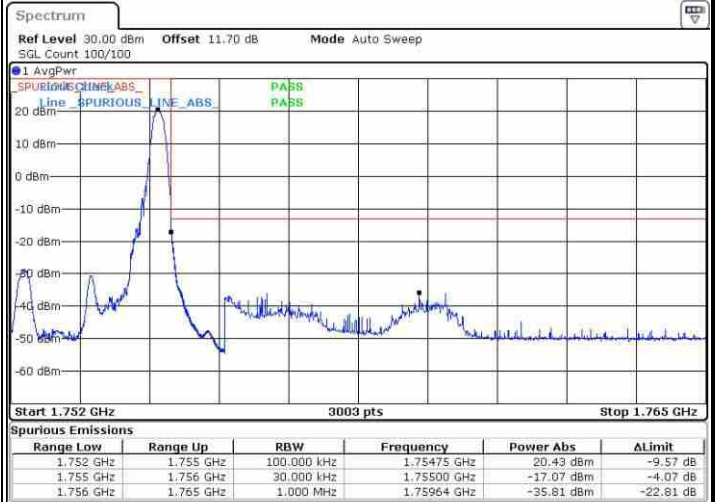
LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



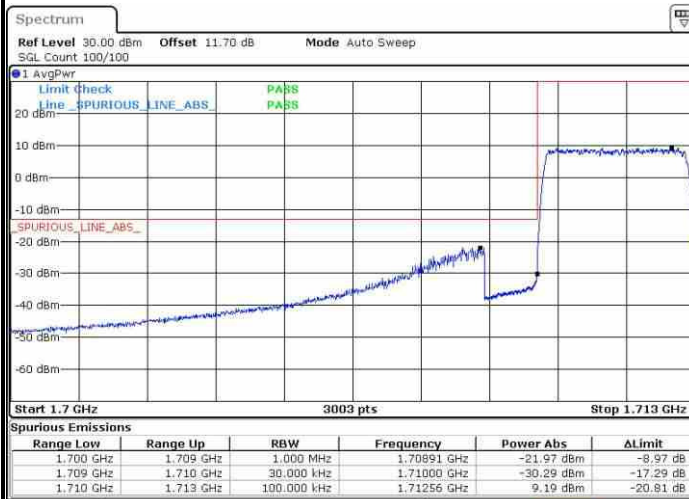
Date: 22.FEB.2016 15:16:00

Highest Band Edge / 1 RB



Date: 22.FEB.2016 15:25:40

Lowest Band Edge / Full RB



Date: 22.FEB.2016 15:18:18

Highest Band Edge / Full RB

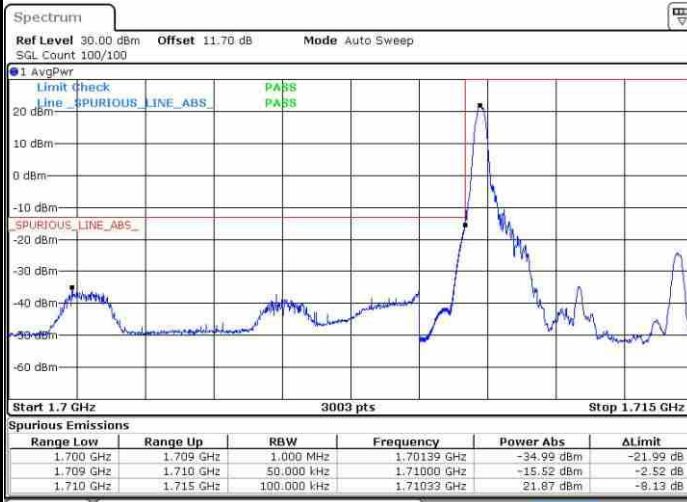


Date: 22.FEB.2016 15:27:59



LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 22.FEB.2016 15:31:38

Highest Band Edge / 1 RB



Date: 22.FEB.2016 15:41:19

Lowest Band Edge / Full RB



Date: 22.FEB.2016 15:33:58

Highest Band Edge / Full RB



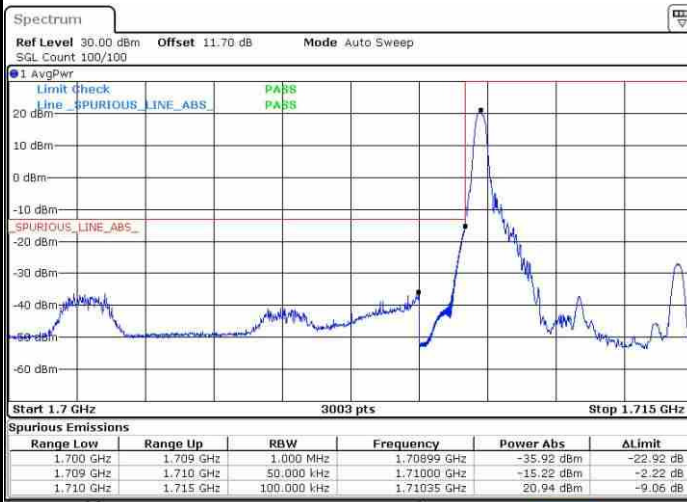
Date: 22.FEB.2016 15:43:38





LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB



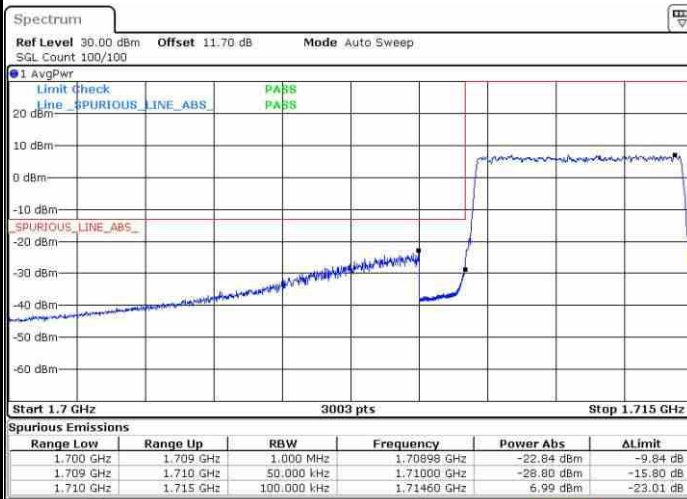
Date: 22.FEB.2016 15:32:48

Highest Band Edge / 1 RB



Date: 22.FEB.2016 15:42:29

Lowest Band Edge / Full RB



Date: 22.FEB.2016 15:35:07

Highest Band Edge / Full RB

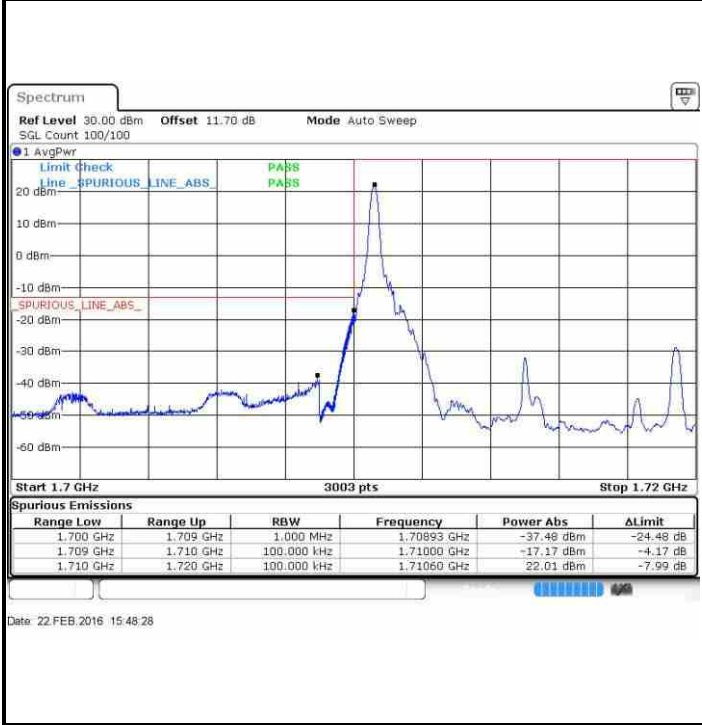


Date: 22.FEB.2016 15:44:47

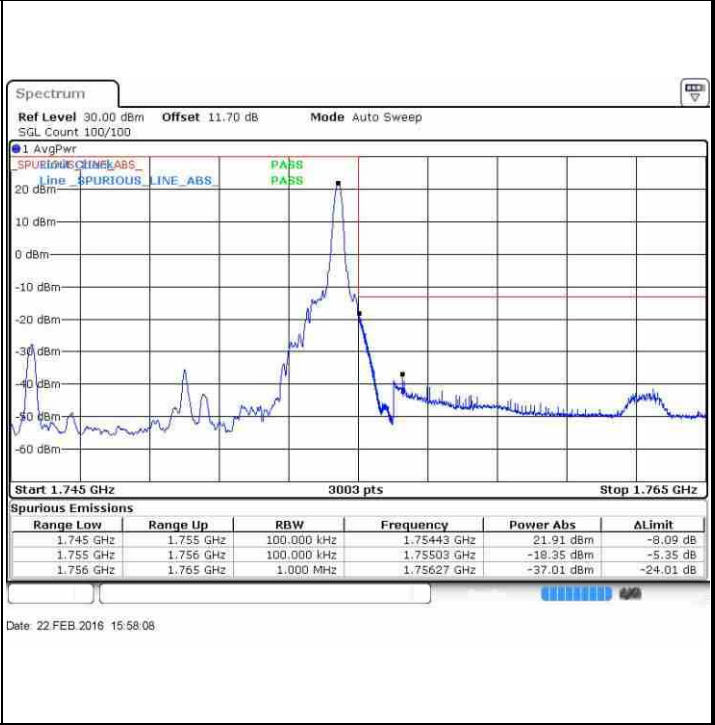


**LTE Band 4 / 10MHz / QPSK**

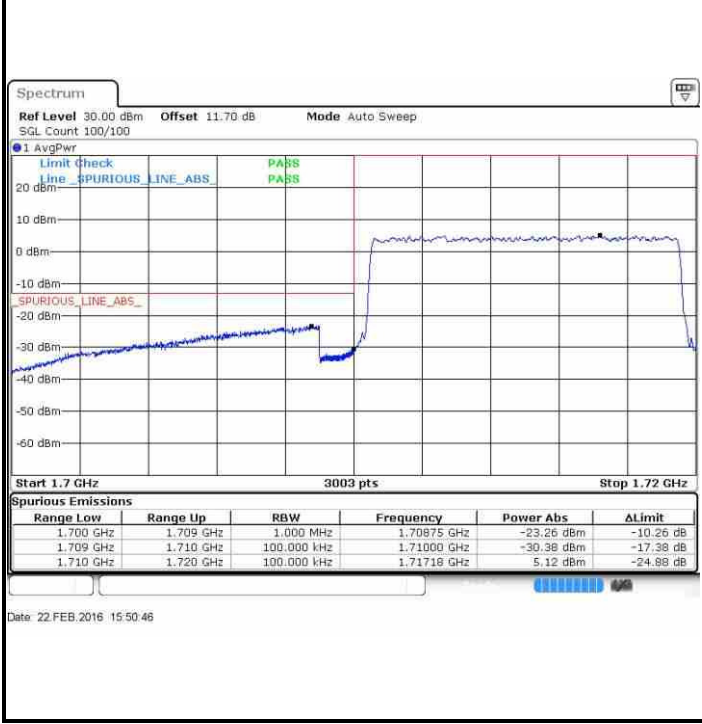
**Lowest Band Edge / 1 RB**



**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**



**Highest Band Edge / Full RB**

