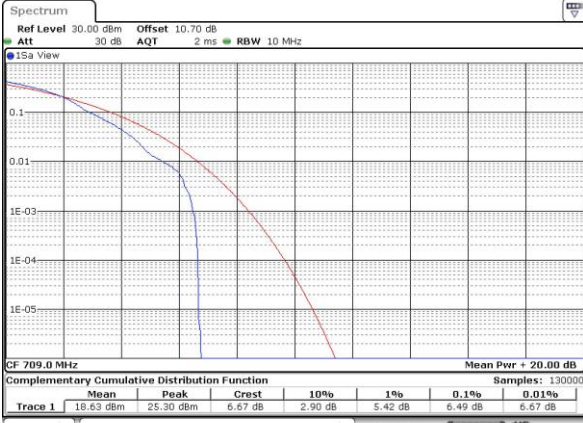




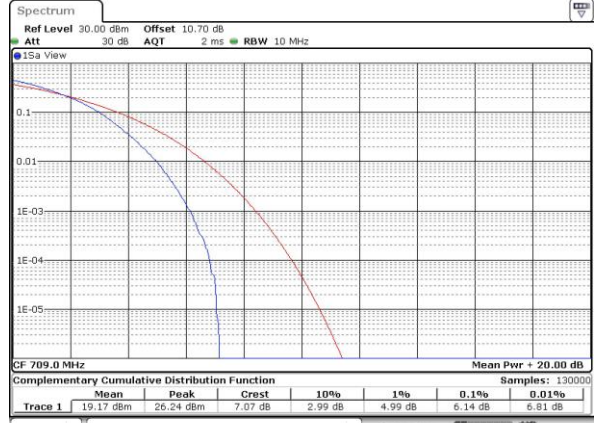
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 27 DEC 2016 16:47:55

Lowest Channel / Full RB



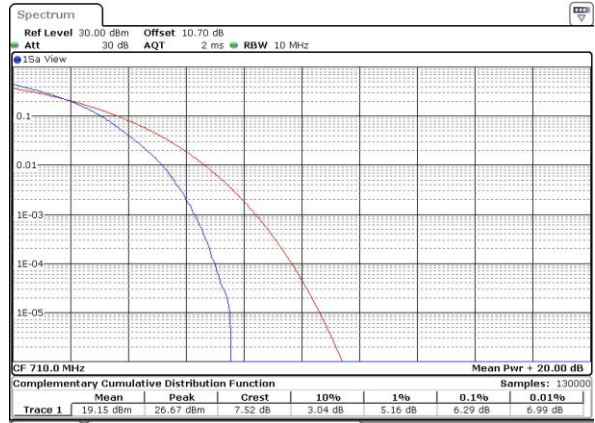
Date: 27 DEC 2016 16:56:22

Middle Channel / 1RB



Date: 27 DEC 2016 16:57:05

Middle Channel / Full RB



Date: 27 DEC 2016 16:57:17

Highest Channel / 1RB



Date: 27 DEC 2016 16:57:27

Highest Channel / Full RB



Date: 27 DEC 2016 16:57:41



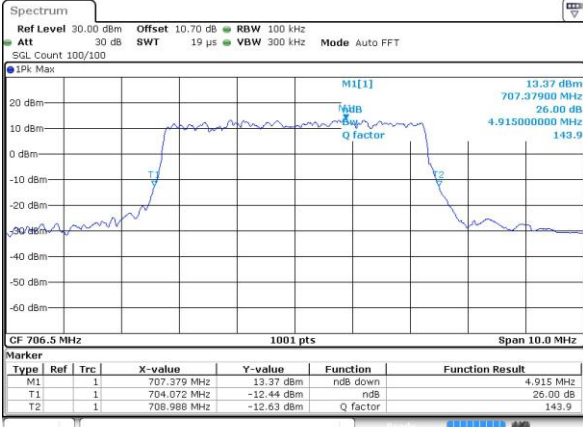
**26dB Bandwidth**

Mode	LTE Band 17 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.92	4.93	9.85	9.77	-	-	-	-
Middle CH	-	-	-	-	5.00	5.00	9.65	9.83	-	-	-	-
Highest CH	-	-	-	-	4.93	4.93	9.75	9.75	-	-	-	-



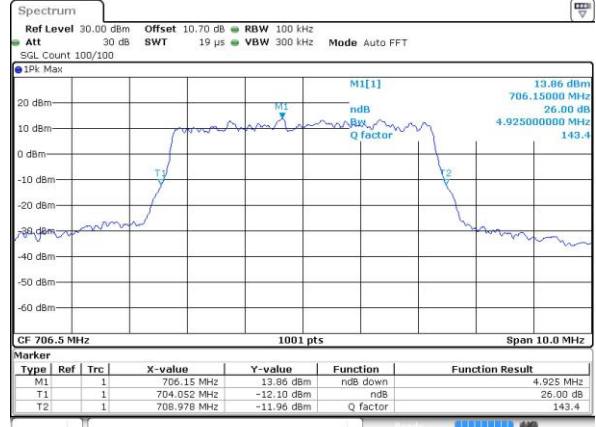
LTE Band 17

Lowest Channel / 5MHz / QPSK



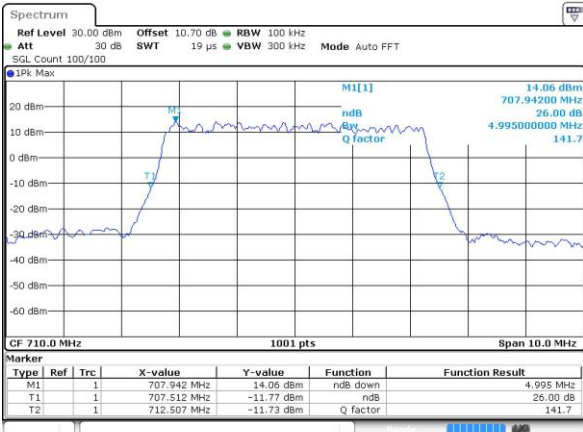
Date: 27 DEC 2016 16:10:40

Lowest Channel / 5MHz / 16QAM



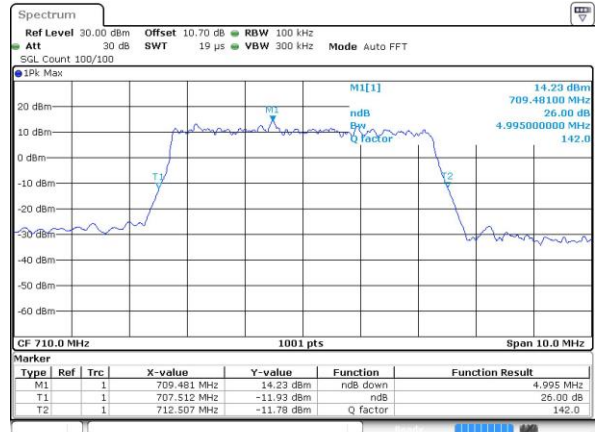
Date: 27 DEC 2016 16:10:51

Middle Channel / 5MHz / QPSK



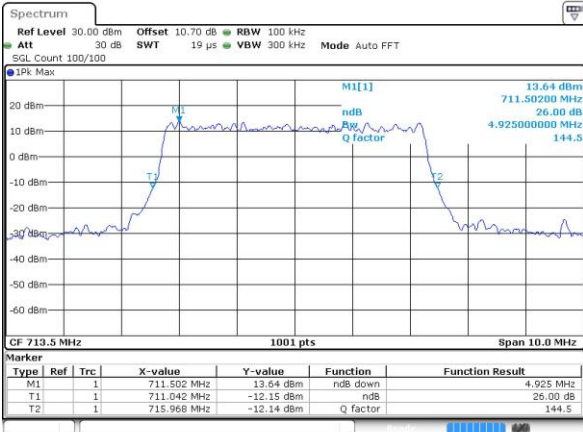
Date: 27 DEC 2016 16:17:47

Middle Channel / 5MHz / 16QAM



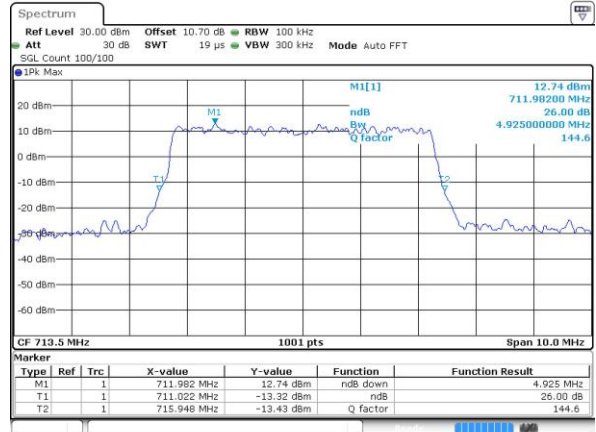
Date: 27 DEC 2016 16:17:57

Highest Channel / 5MHz / QPSK



Date: 27 DEC 2016 16:20:17

Highest Channel / 5MHz / 16QAM

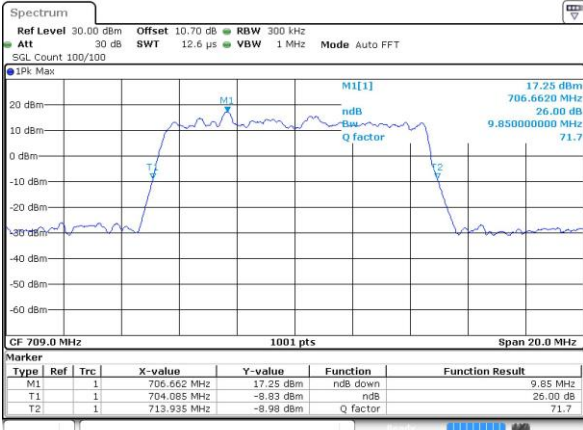


Date: 27 DEC 2016 16:20:28



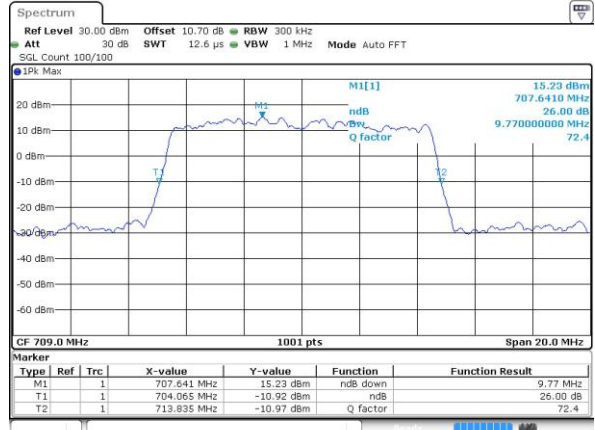
LTE Band 17

Lowest Channel / 10MHz / QPSK



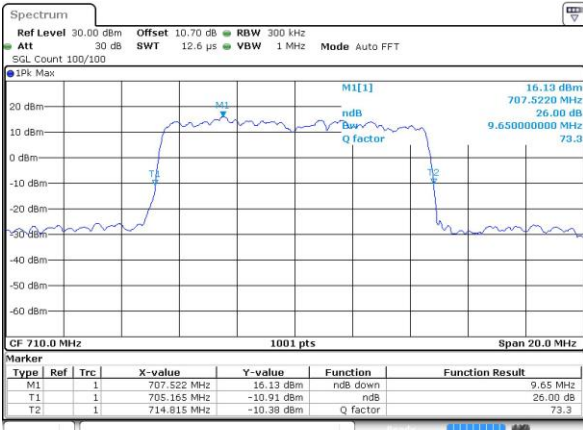
Date: 27 DEC 2016 16:27:24

Lowest Channel / 10MHz / 16QAM



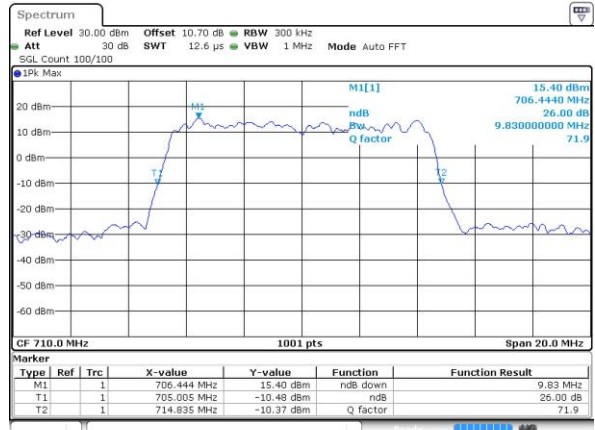
Date: 27 DEC 2016 16:27:34

Middle Channel / 10MHz / QPSK



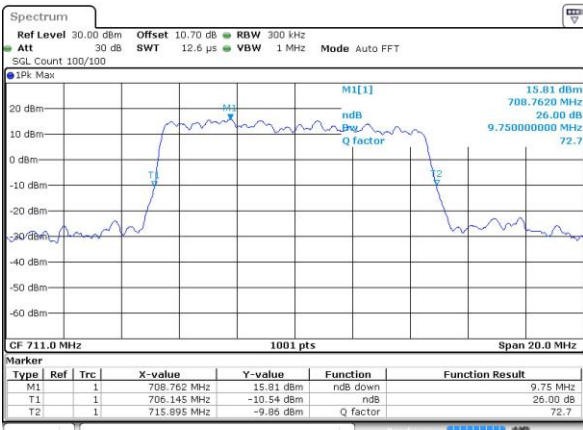
Date: 27 DEC 2016 16:34:30

Middle Channel / 10MHz / 16QAM



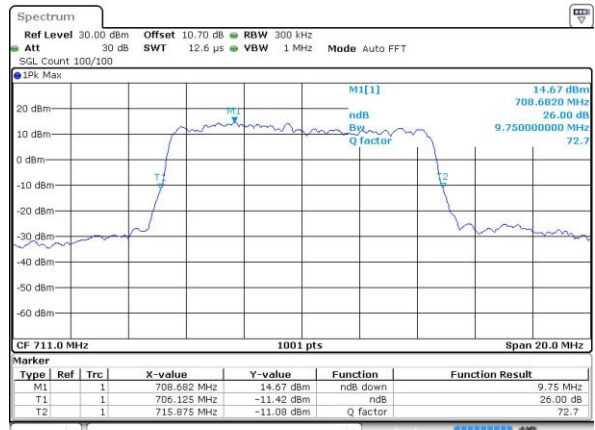
Date: 27 DEC 2016 16:34:40

Highest Channel / 10MHz / QPSK



Date: 27 DEC 2016 16:37:00

Highest Channel / 10MHz / 16QAM



Date: 27 DEC 2016 16:37:10



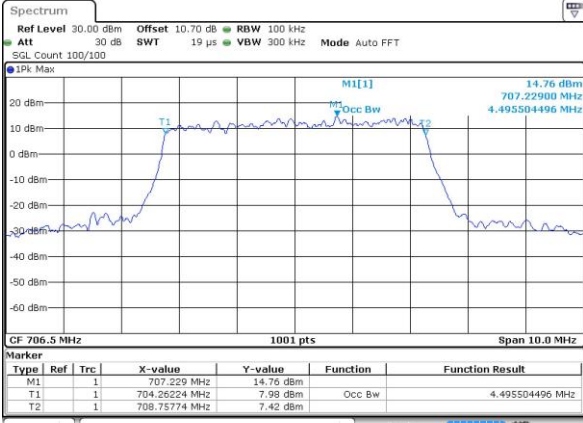
### Occupied Bandwidth

Mode	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.5	4.51	9.03	8.97	-	-	-	-
Middle CH	-	-	-	-	4.5	4.49	9.03	9.03	-	-	-	-
Highest CH	-	-	-	-	4.51	4.52	8.99	9.07	-	-	-	-



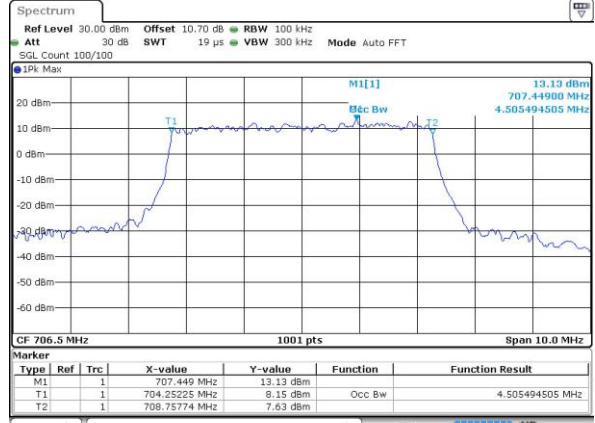
LTE Band 17

Lowest Channel / 5MHz / QPSK



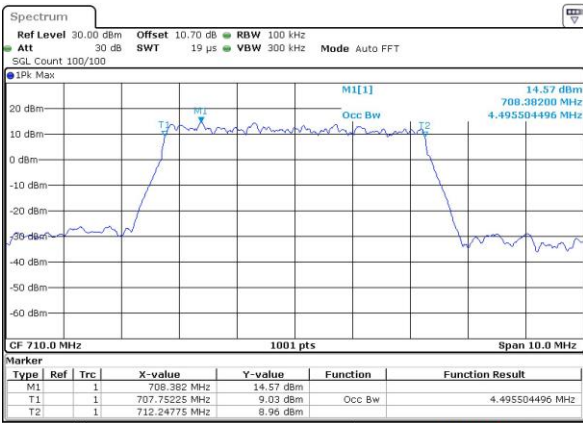
Date: 27 DEC 2016 16:10:20

Lowest Channel / 5MHz / 16QAM



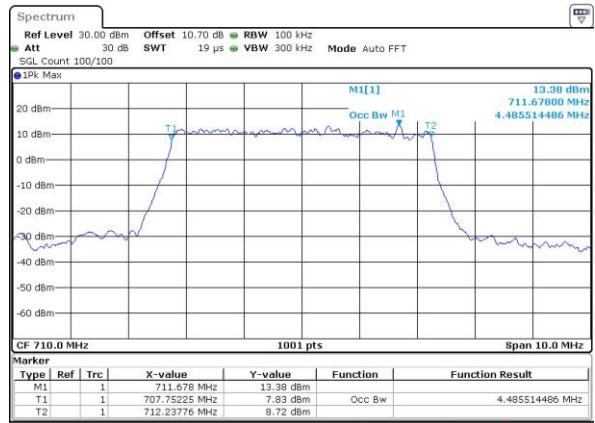
Date: 27 DEC 2016 16:10:30

Middle Channel / 5MHz / QPSK



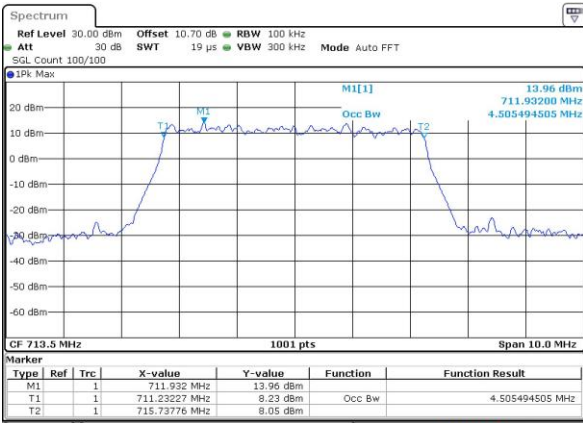
Date: 27 DEC 2016 16:17:28

Middle Channel / 5MHz / 16QAM



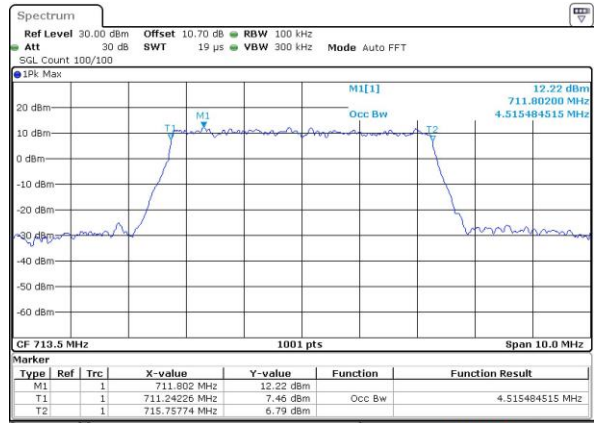
Date: 27 DEC 2016 16:17:37

Highest Channel / 5MHz / QPSK



Date: 27 DEC 2016 16:19:56

Highest Channel / 5MHz / 16QAM

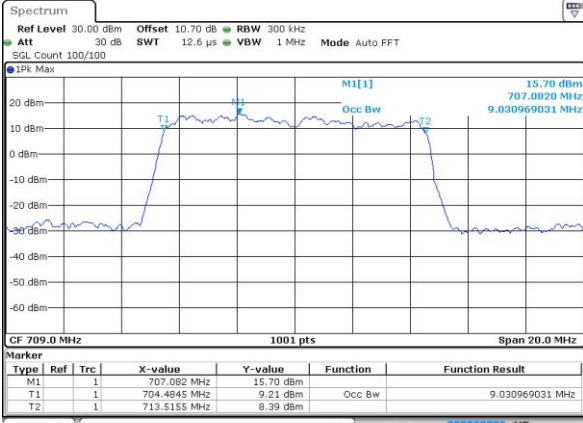


Date: 27 DEC 2016 16:20:07



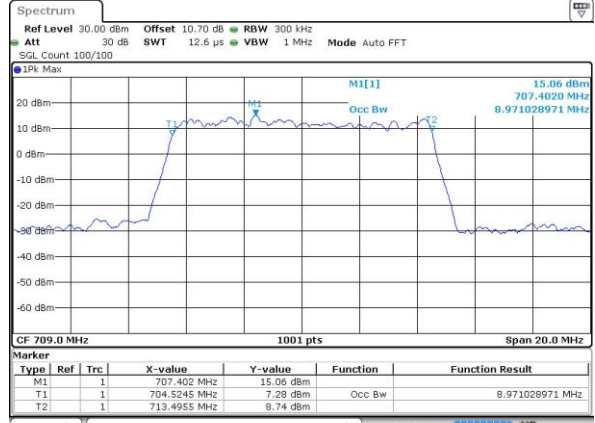
LTE Band 17

Lowest Channel / 10MHz / QPSK



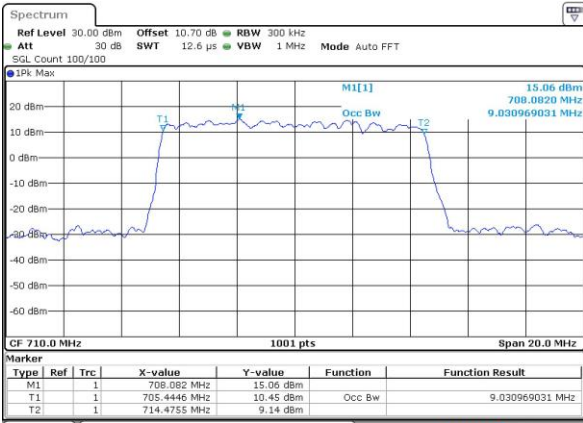
Date: 27 DEC 2016 16:27:03

Lowest Channel / 10MHz / 16QAM



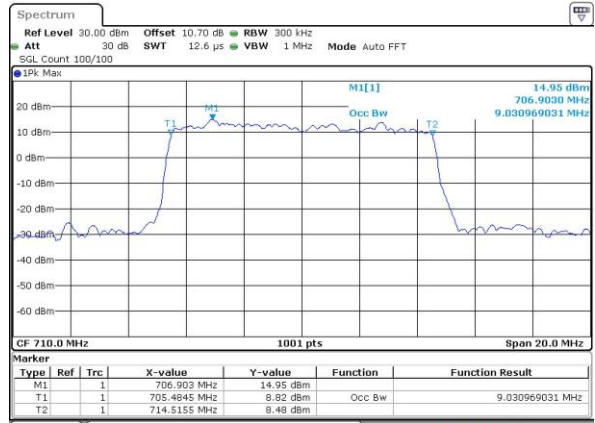
Date: 27 DEC 2016 16:27:13

Middle Channel / 10MHz / QPSK



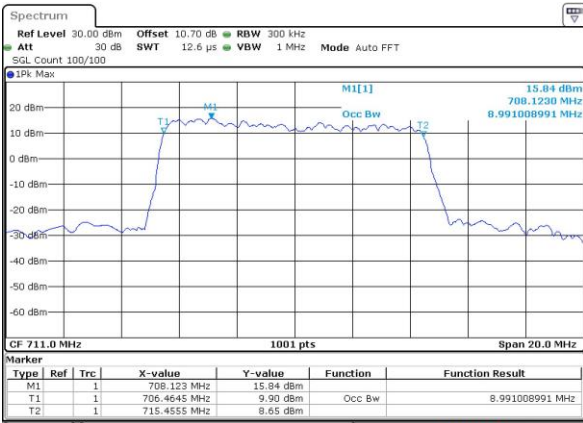
Date: 27 DEC 2016 16:34:09

Middle Channel / 10MHz / 16QAM



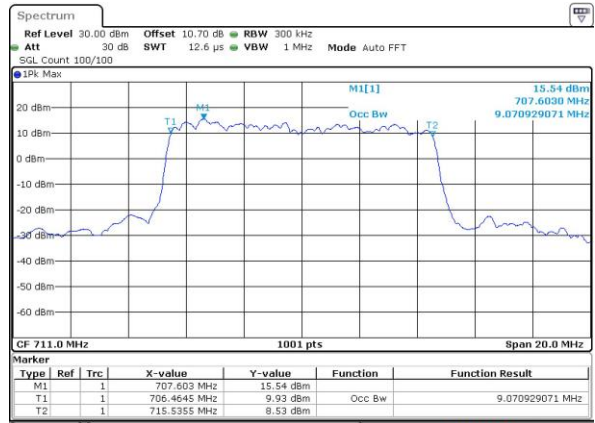
Date: 27 DEC 2016 16:34:20

Highest Channel / 10MHz / QPSK



Date: 27 DEC 2016 16:36:39

Highest Channel / 10MHz / 16QAM



Date: 27 DEC 2016 16:36:49



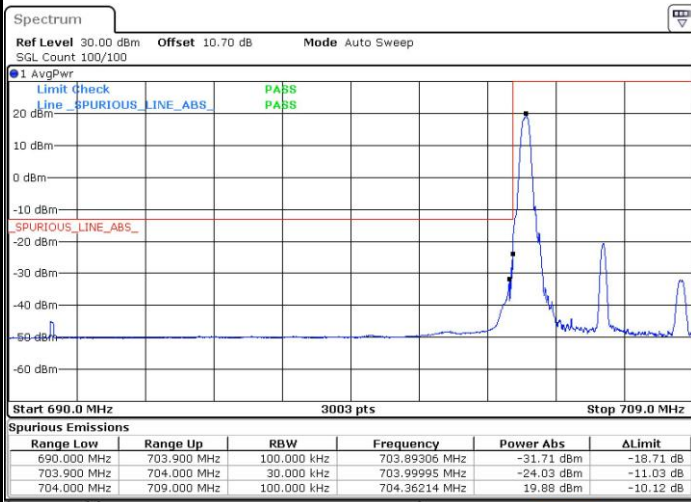
**Conducted Band Edge**





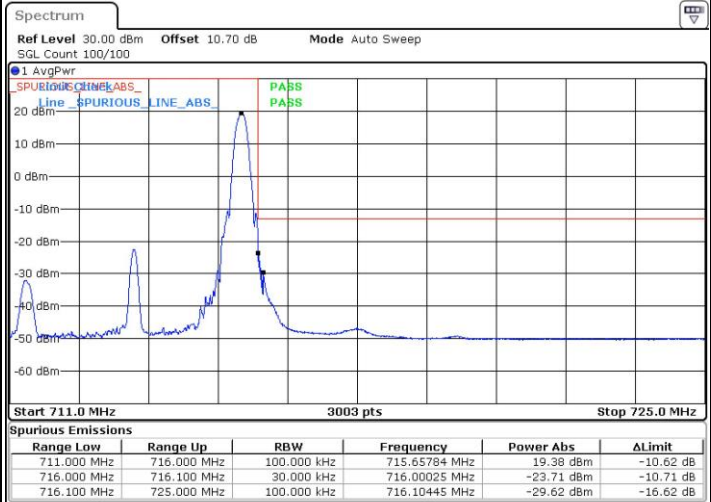
LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



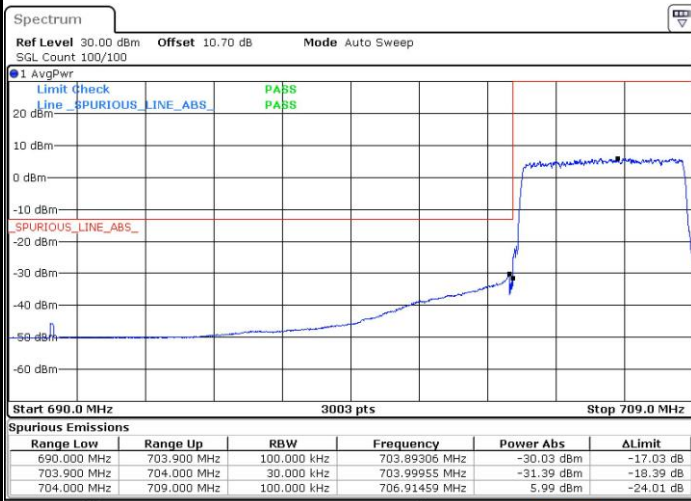
Date: 27.DEC.2016 16:11:59

Highest Band Edge / 1 RB



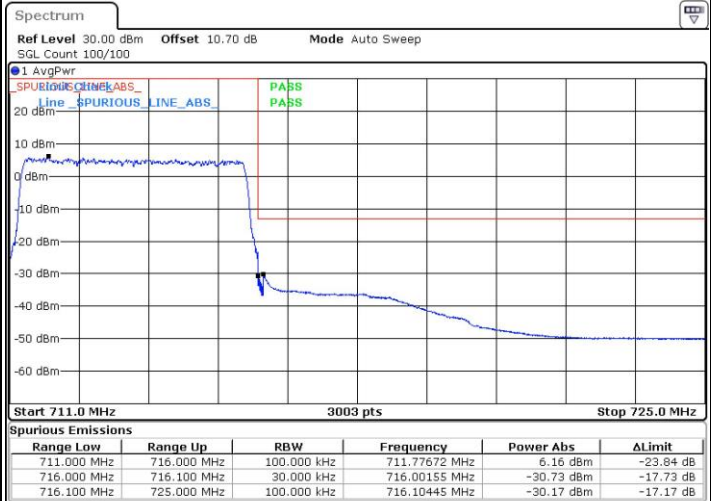
Date: 27.DEC.2016 16:21:36

Lowest Band Edge / Full RB



Date: 27.DEC.2016 16:14:18

Highest Band Edge / Full RB

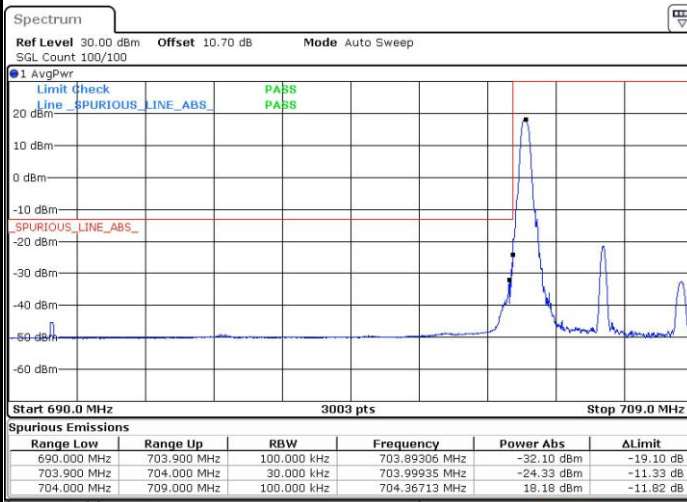


Date: 27.DEC.2016 16:23:54



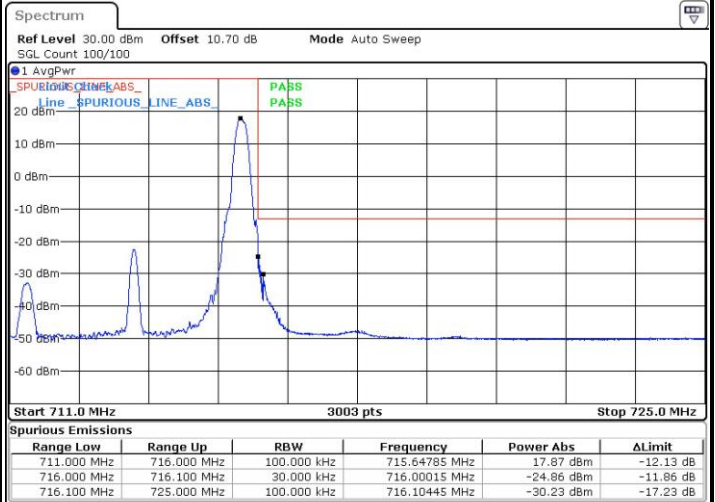
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



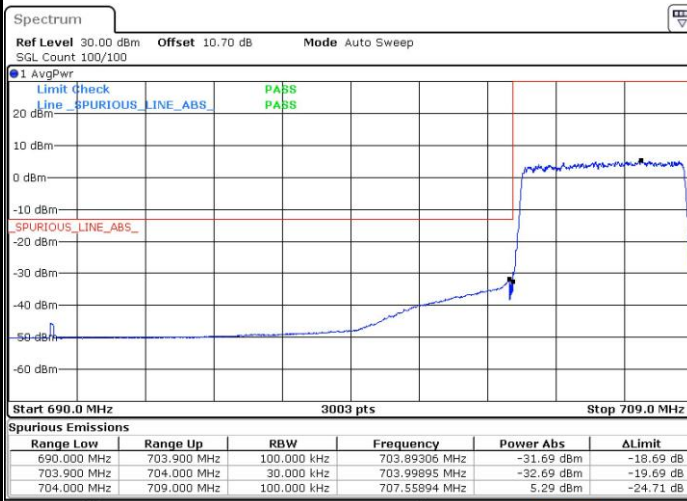
Date: 27.DEC.2016 16:13:08

Highest Band Edge / 1 RB



Date: 27.DEC.2016 16:22:45

Lowest Band Edge / Full RB



Date: 27.DEC.2016 16:15:27

Highest Band Edge / Full RB

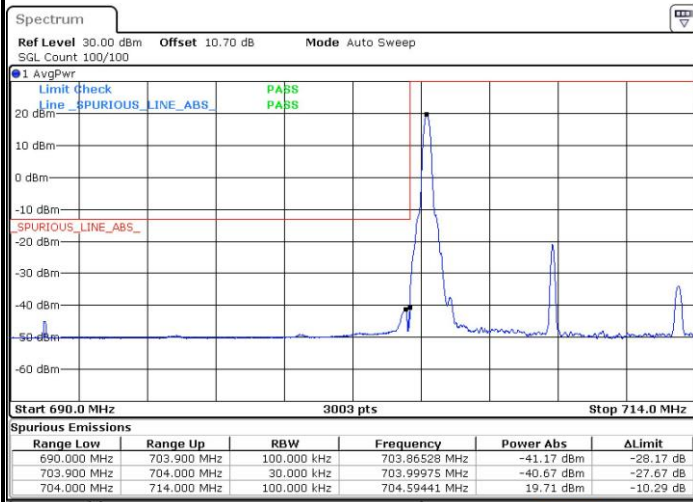


Date: 27.DEC.2016 16:25:04



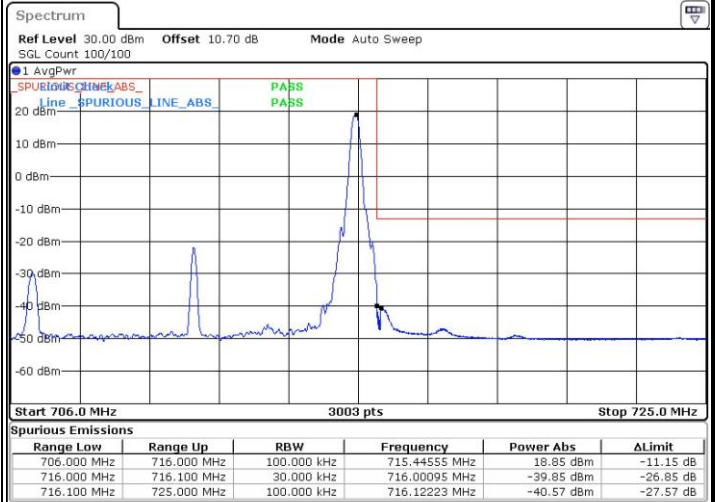
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



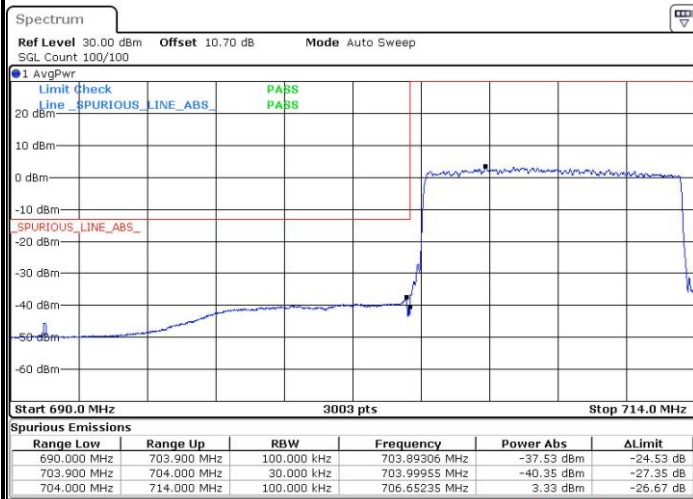
Date: 27.DEC.2016 16:28:43

Highest Band Edge / 1 RB



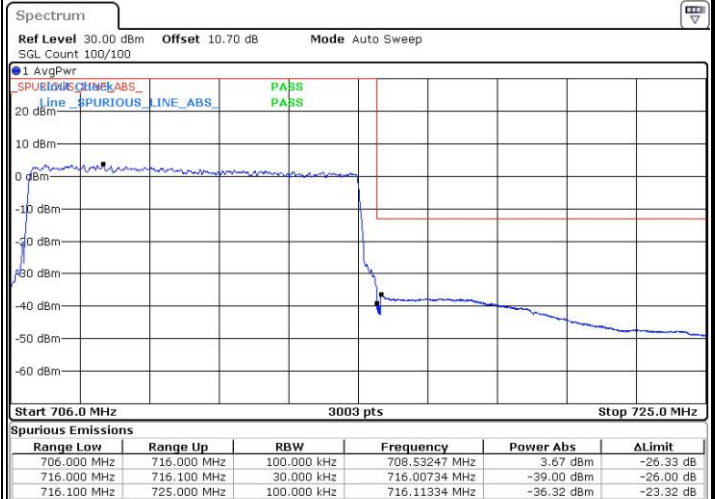
Date: 27.DEC.2016 16:38:19

Lowest Band Edge / Full RB



Date: 27.DEC.2016 16:31:01

Highest Band Edge / Full RB

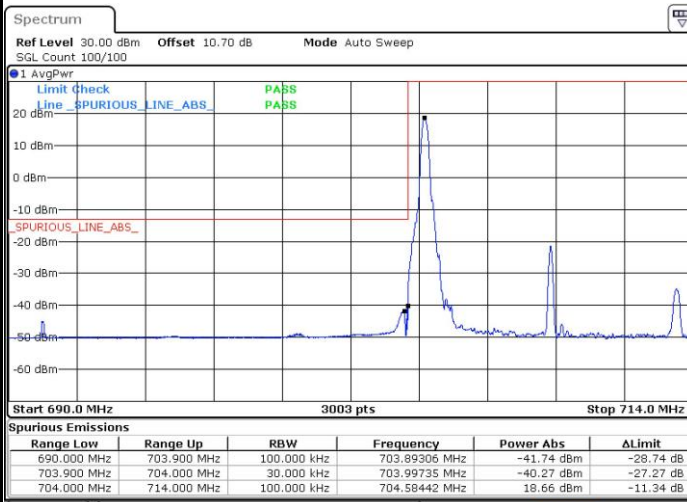


Date: 27.DEC.2016 16:40:37



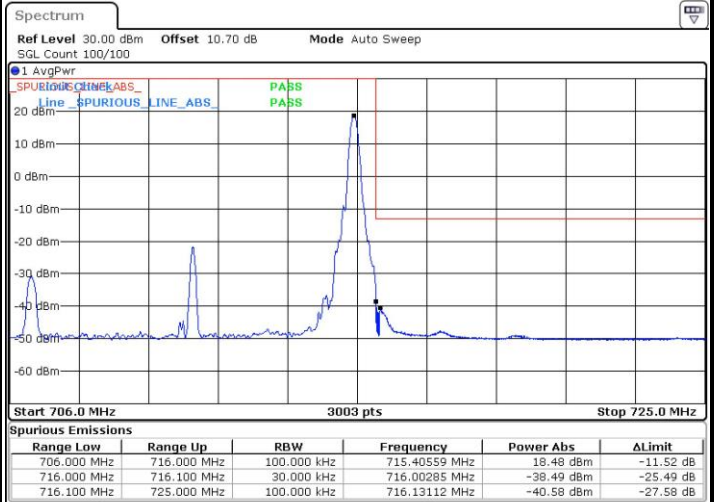
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



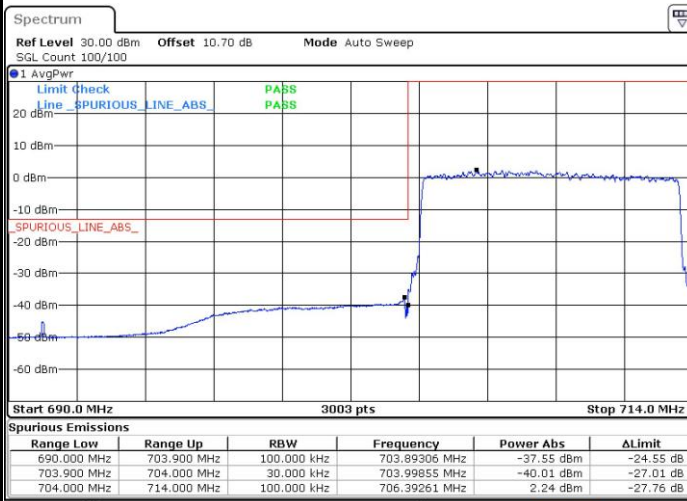
Date: 27.DEC.2016 16:29:52

Highest Band Edge / 1 RB



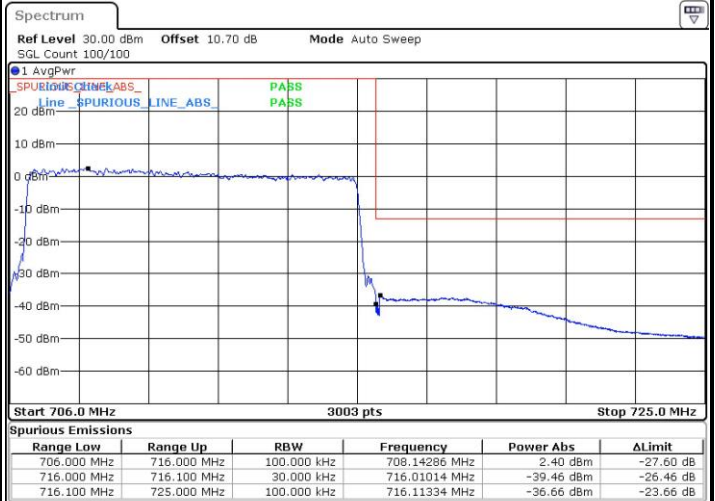
Date: 27.DEC.2016 16:39:28

Lowest Band Edge / Full RB



Date: 27.DEC.2016 16:32:10

Highest Band Edge / Full RB



Date: 27.DEC.2016 16:41:46



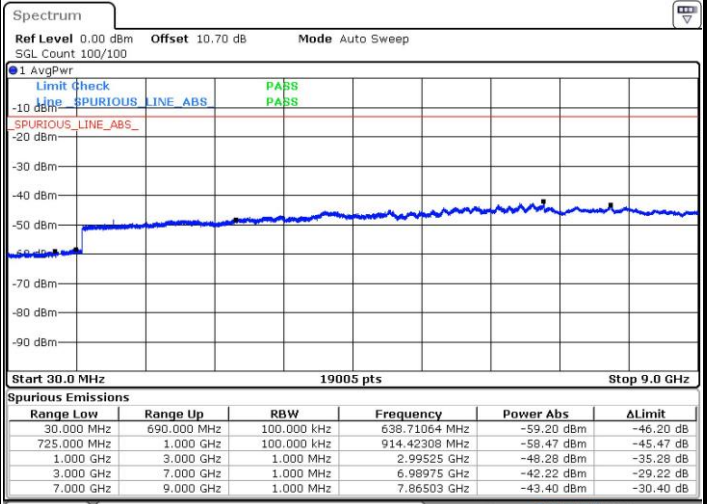
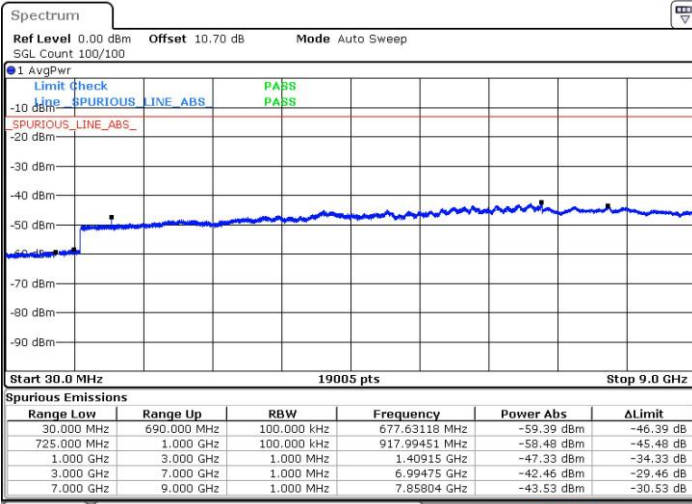
**Conducted Spurious Emission**



LTE Band 17 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

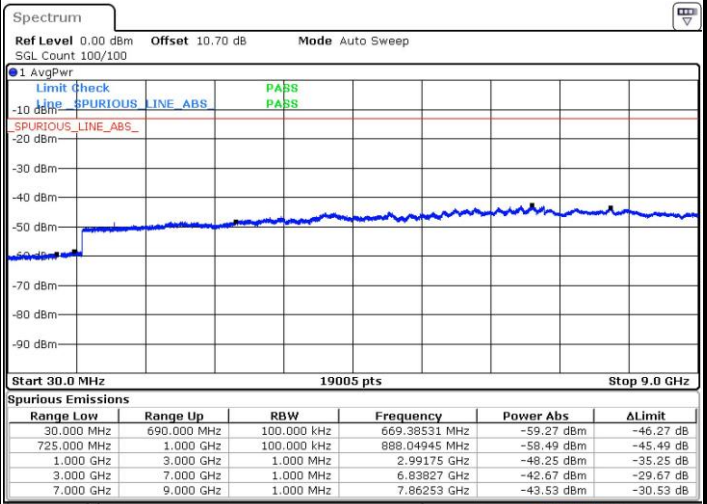
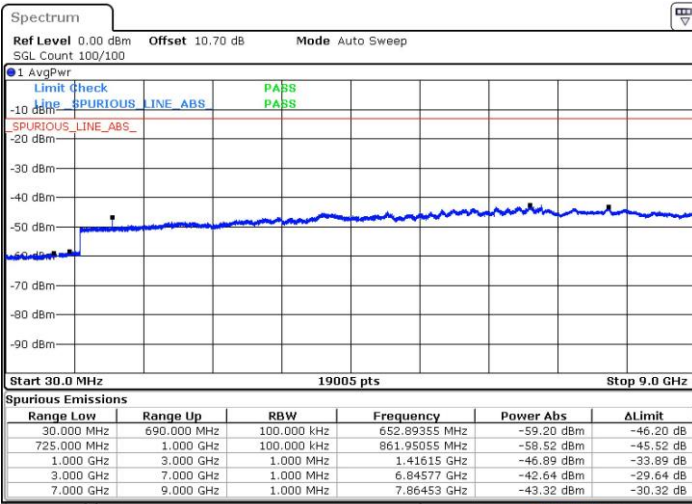


Date: 27.DEC.2016 16:16:22

Date: 27.DEC.2016 16:17:16

Middle Channel / QPSK

Middle Channel / 16QAM



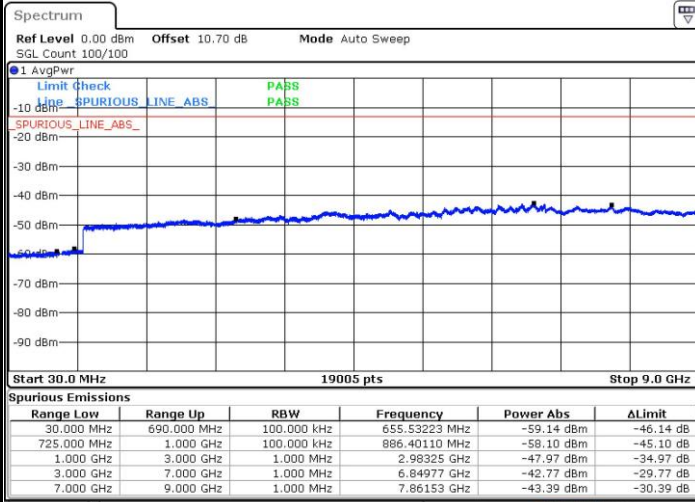
Date: 27.DEC.2016 16:18:52

Date: 27.DEC.2016 16:19:46



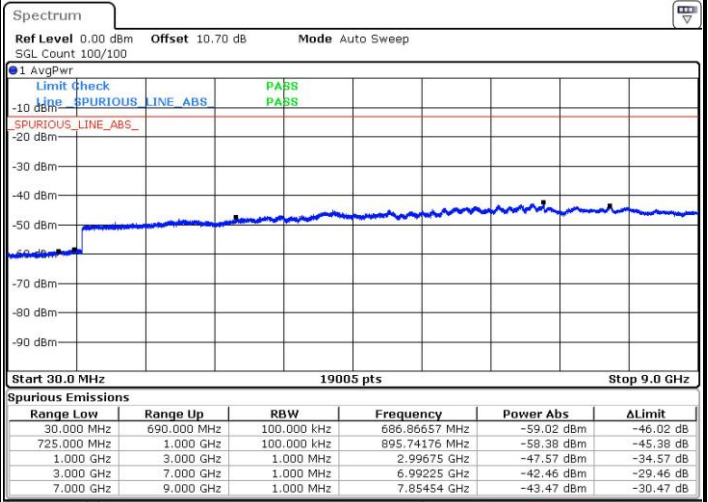
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 27.DEC.2016 16:25:58

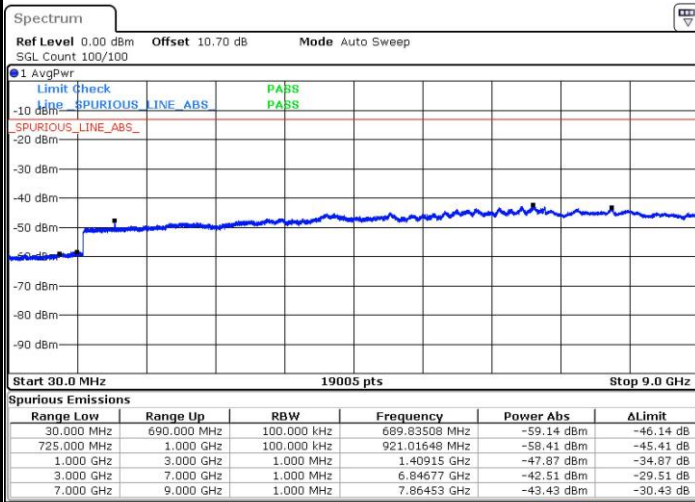
Highest Channel / 16QAM



Date: 27.DEC.2016 16:26:52

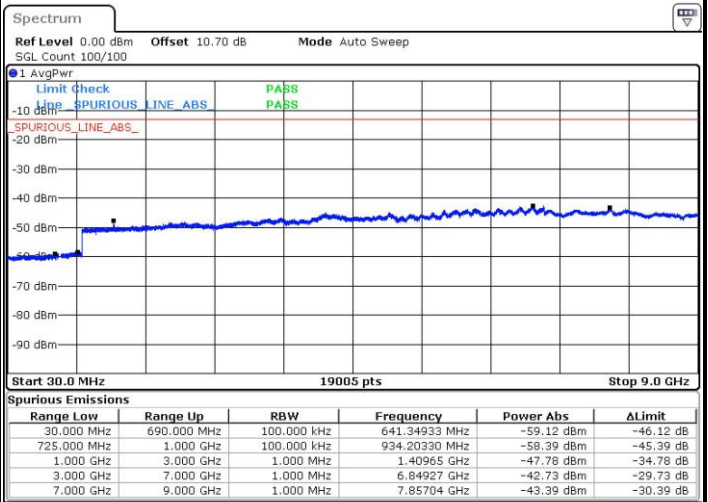
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 27.DEC.2016 16:33:05

Lowest Channel / 16QAM

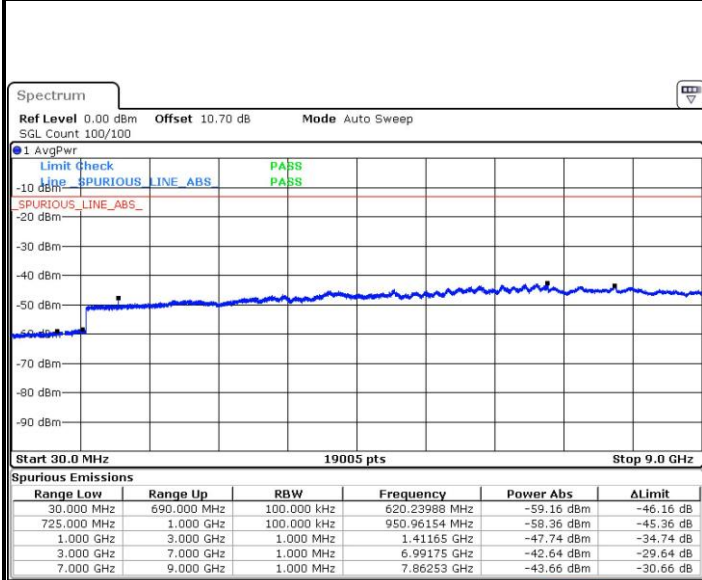


Date: 27.DEC.2016 16:33:59



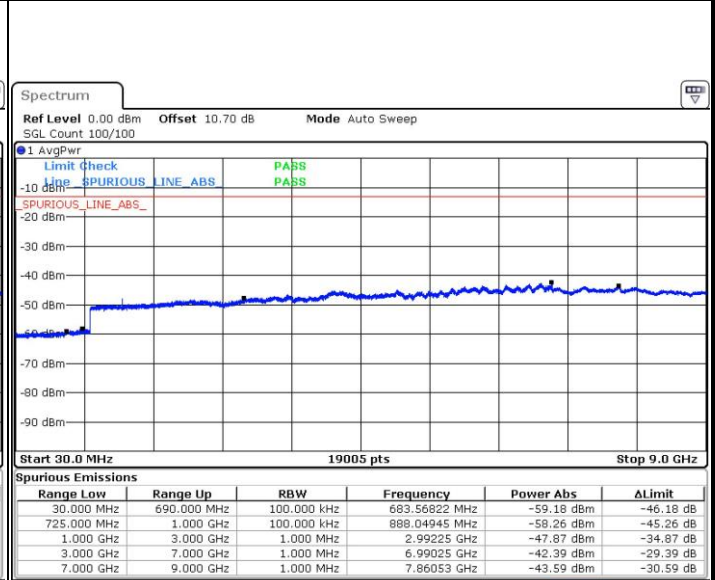
LTE Band 17 / 10MHz

Middle Channel / QPSK



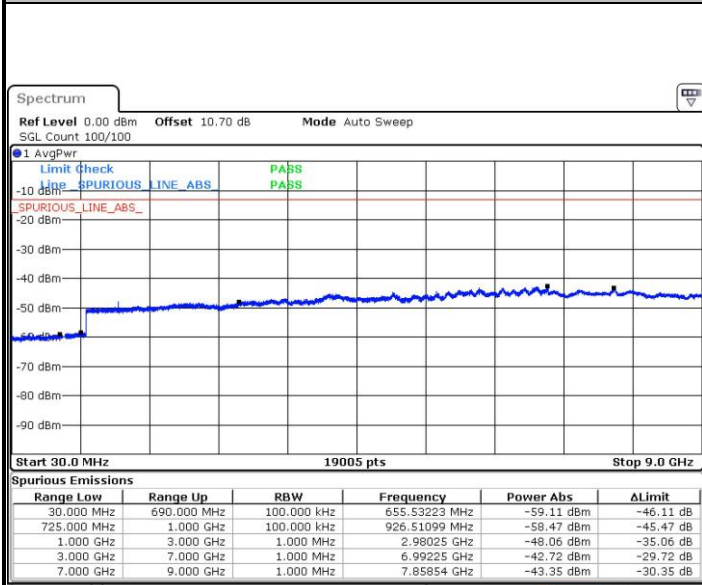
Date: 27.DEC.2016 16:35:35

Middle Channel / 16QAM



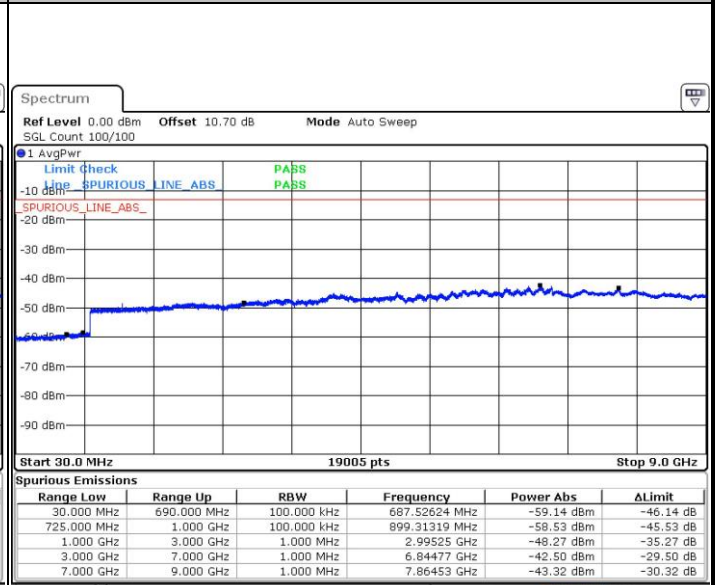
Date: 27.DEC.2016 16:36:29

Highest Channel / QPSK



Date: 27.DEC.2016 16:42:41

Highest Channel / 16QAM



Date: 27.DEC.2016 16:43:35





Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0123	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0097	
0	Normal Voltage	0.0107	
-10	Normal Voltage	0.0120	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =24.0 V. ; Battery End Point (BEP) =12.0 V. ; Maximum Voltage =48.0 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 25

### Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	-	-	-	-	
Highest CH	5.16	5.51	6.03	6.49	



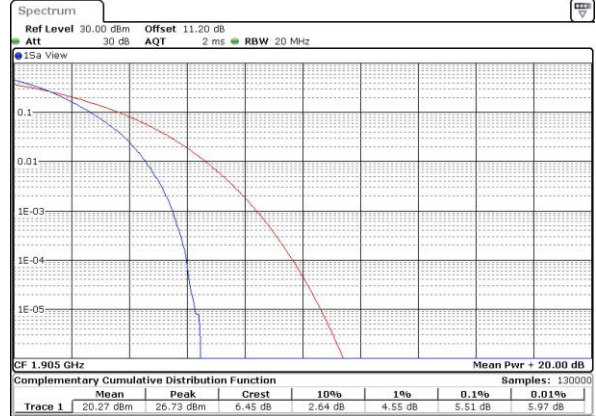
LTE Band 25 / 20MHz / QPSK

Highest Channel / 1RB



Date: 27 DEC 2016 12:06:38

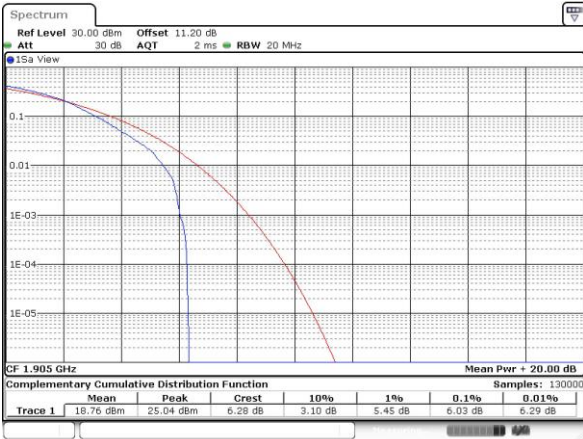
Highest Channel / Full RB



Date: 27 DEC 2016 12:07:44

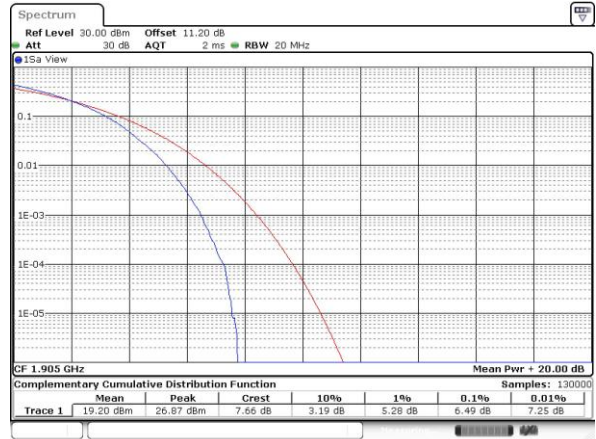
LTE Band 25 / 20MHz / 16QAM

Highest Channel / 1RB



Date: 27 DEC 2016 12:03:41

Highest Channel / Full RB



Date: 27 DEC 2016 12:08:28



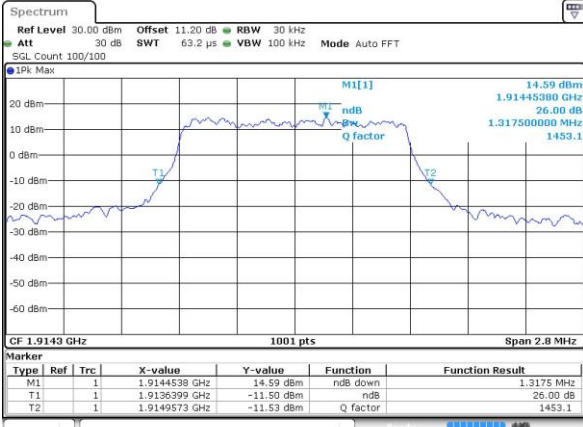
**26dB Bandwidth**

Mode	LTE Band 25 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	-	-	-	-	-	-	-	-
Middle CH	-	-	-	-	-	-	-	-	-	-	-	-
Highest CH	1.32	1.28	3.00	3.14	4.98	4.95	9.85	9.87	14.48	14.12	20.22	20.14



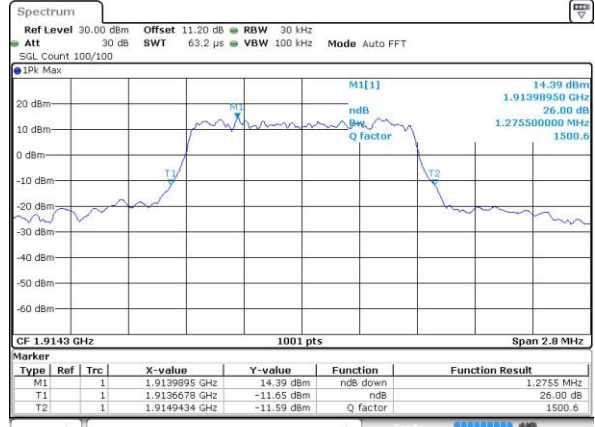
LTE Band 25

Highest Channel / 1.4MHz / QPSK



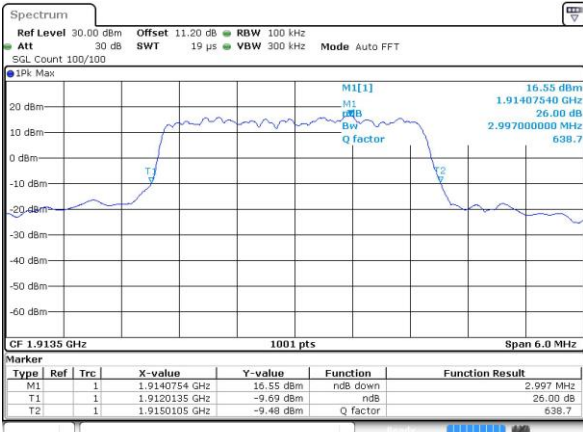
Date: 27 DEC 2016 11:54:22

Highest Channel / 1.4MHz / 16QAM



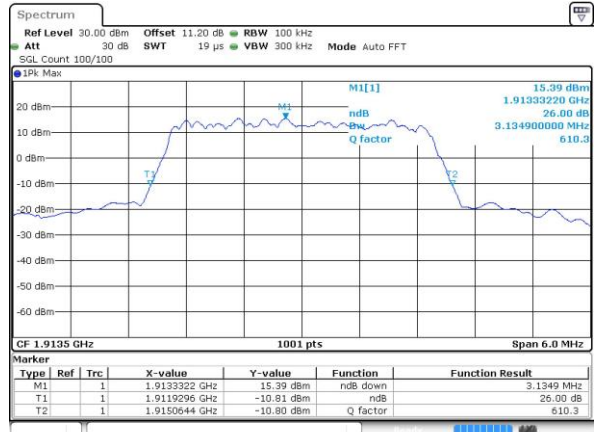
Date: 27 DEC 2016 11:54:12

Highest Channel / 3MHz / QPSK



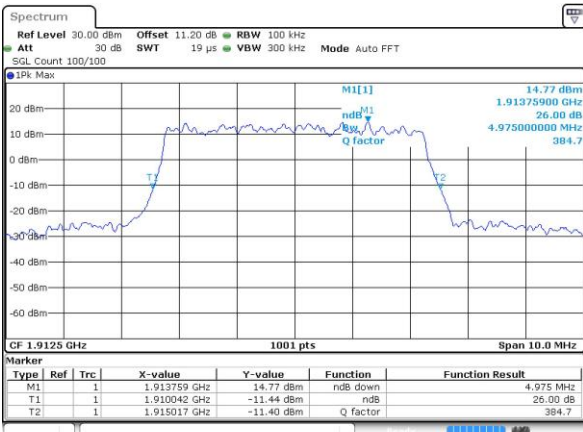
Date: 27 DEC 2016 11:18:45

Highest Channel / 3MHz / 16QAM



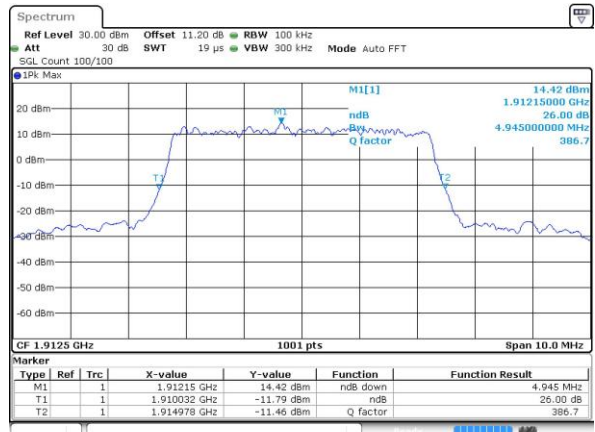
Date: 27 DEC 2016 11:18:35

Highest Channel / 5MHz / QPSK



Date: 27 DEC 2016 11:25:52

Highest Channel / 5MHz / 16QAM

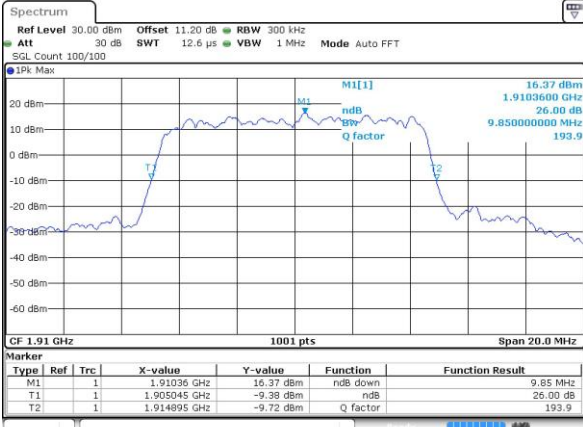


Date: 27 DEC 2016 11:25:42



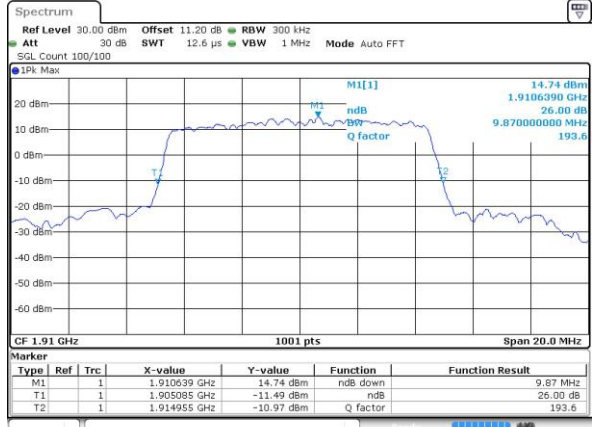
LTE Band 25

Highest Channel / 10MHz / QPSK



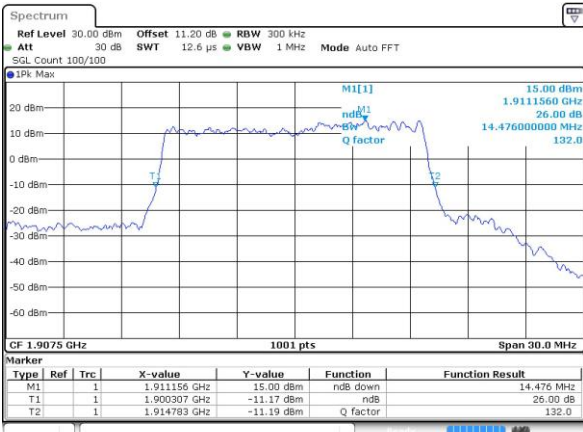
Date: 27 DEC 2016 11:33:00

Highest Channel / 10MHz / 16QAM



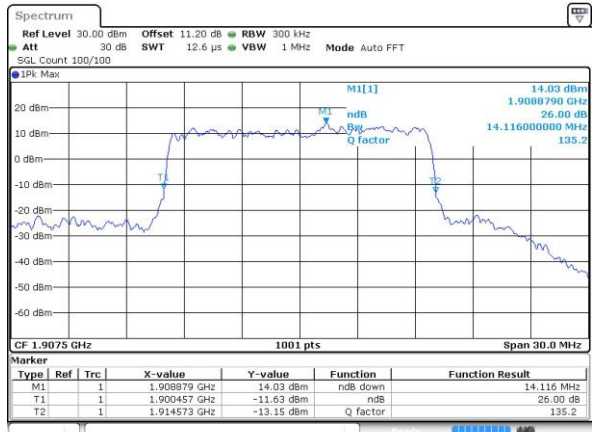
Date: 27 DEC 2016 11:32:50

Highest Channel / 15MHz / QPSK



Date: 27 DEC 2016 11:40:07

Highest Channel / 15MHz / 16QAM



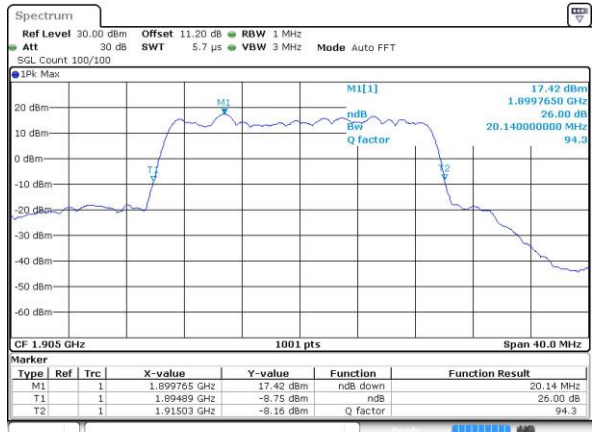
Date: 27 DEC 2016 11:39:57

Highest Channel / 20MHz / QPSK



Date: 27 DEC 2016 11:47:14

Highest Channel / 20MHz / 16QAM



Date: 27 DEC 2016 11:47:04



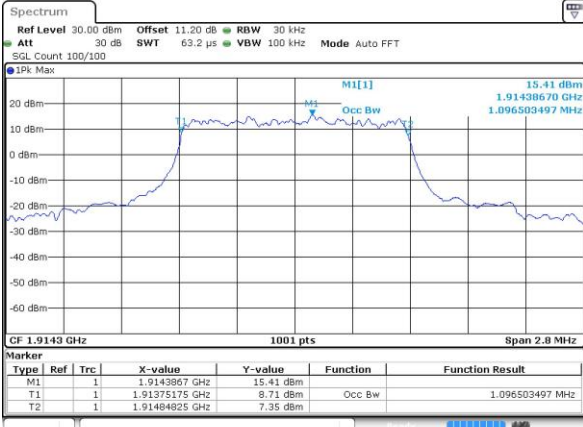
### Occupied Bandwidth

Mode	LTE Band 25 : 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	-	-	-	-	-	-	-	-	-	-	-	-
Middle CH	-	-	-	-	-	-	-	-	-	-	-	-
Highest CH	1.1	1.09	2.73	2.7	4.48	4.47	9.01	8.99	13.43	13.43	18.38	18.42



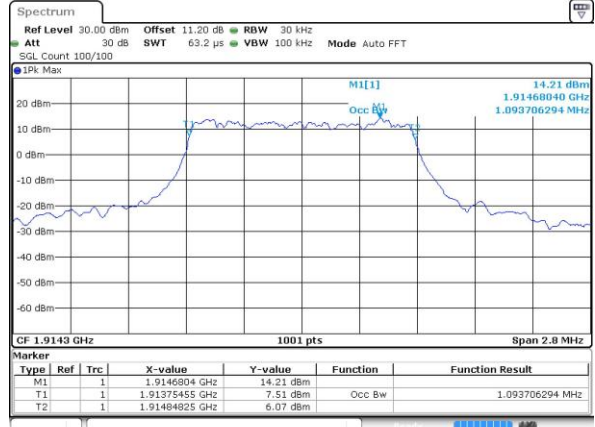
LTE Band 25

Highest Channel / 1.4MHz / QPSK



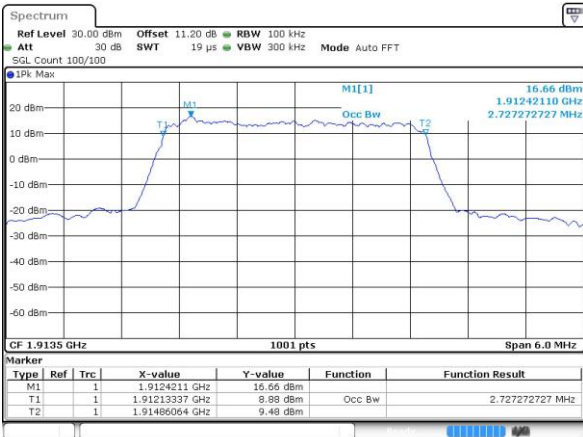
Date: 27 DEC 2016 11:53:51

Highest Channel / 1.4MHz / 16QAM



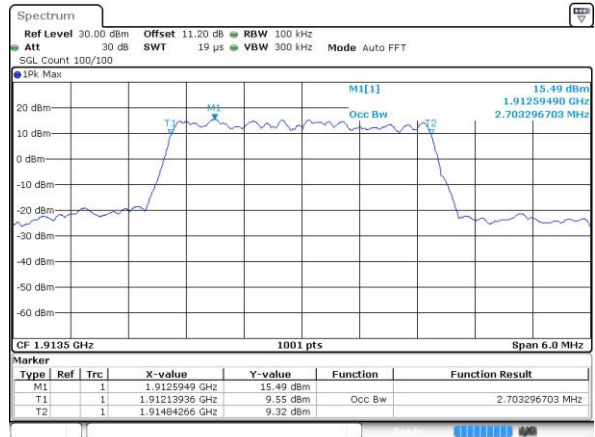
Date: 27 DEC 2016 11:54:01

Highest Channel / 3MHz / QPSK



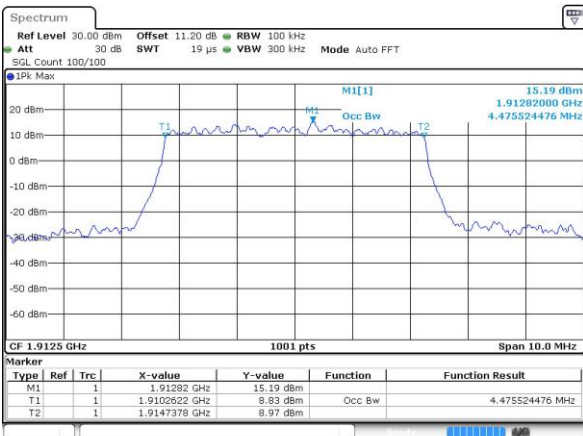
Date: 27 DEC 2016 11:18:14

Highest Channel / 3MHz / 16QAM



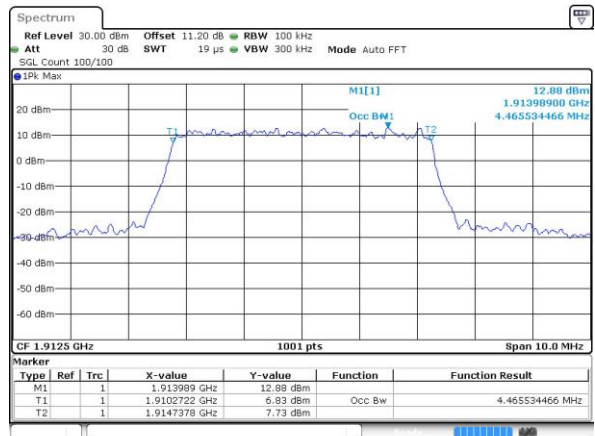
Date: 27 DEC 2016 11:18:25

Highest Channel / 5MHz / QPSK



Date: 27 DEC 2016 11:25:21

Highest Channel / 5MHz / 16QAM



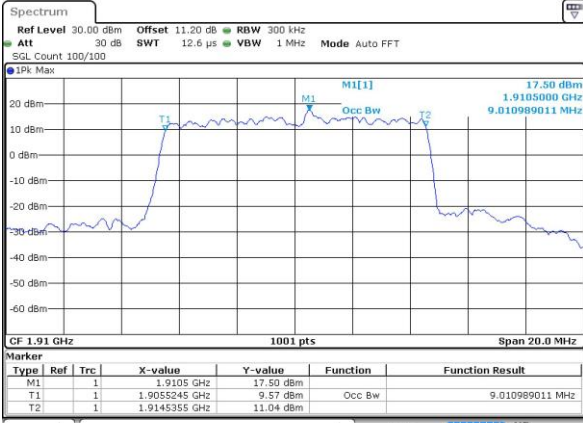
Date: 27 DEC 2016 11:25:32





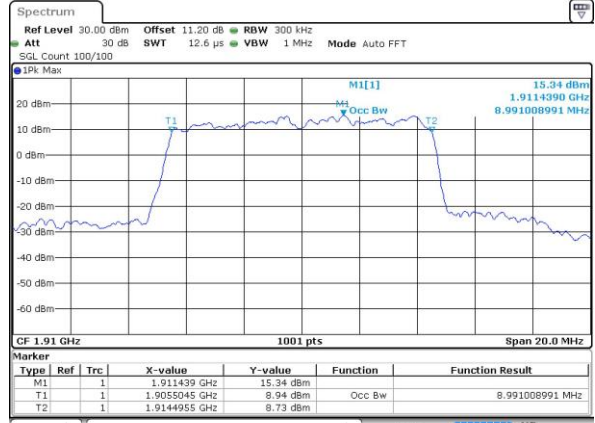
LTE Band 25

Highest Channel / 10MHz / QPSK



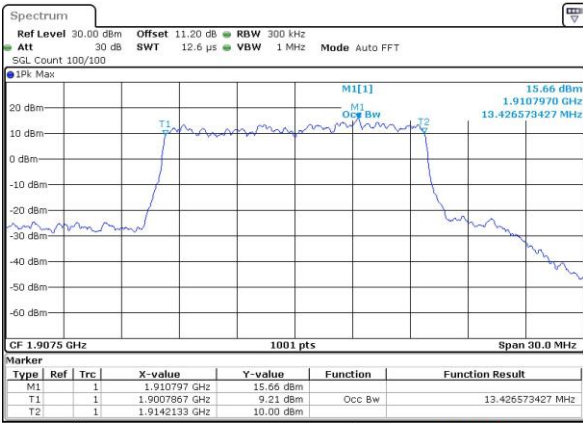
Date: 27 DEC 2016 11:32:29

Highest Channel / 10MHz / 16QAM



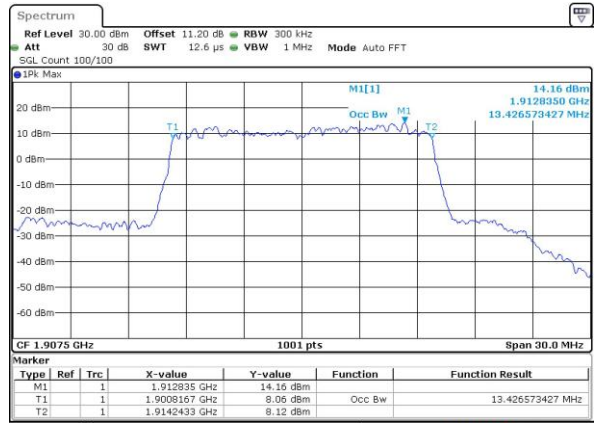
Date: 27 DEC 2016 11:32:39

Highest Channel / 15MHz / QPSK



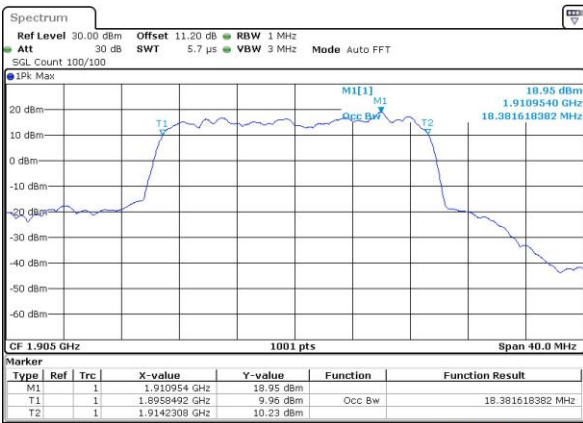
Date: 27 DEC 2016 11:39:36

Highest Channel / 15MHz / 16QAM



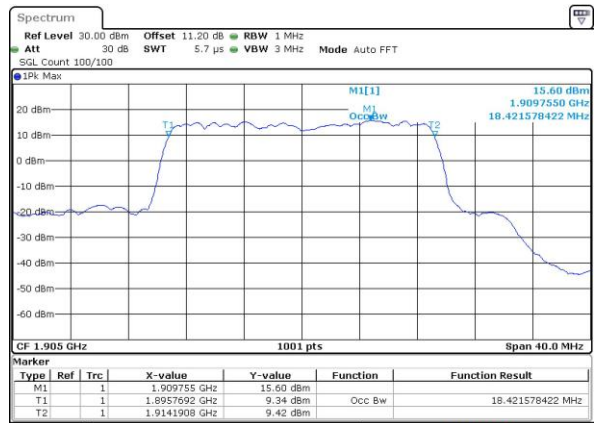
Date: 27 DEC 2016 11:39:47

Highest Channel / 20MHz / QPSK



Date: 27 DEC 2016 11:46:43

Highest Channel / 20MHz / 16QAM



Date: 27 DEC 2016 11:46:54

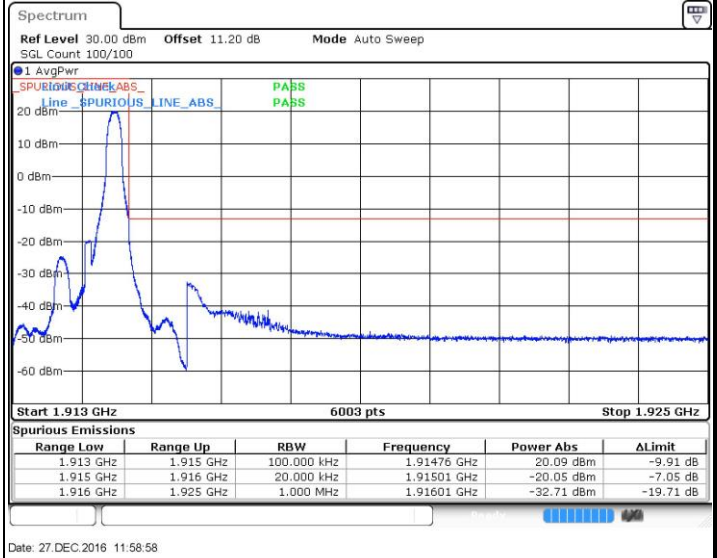


**Conducted Band Edge**



LTE Band 25 / 1.4MHz / QPSK

Highest Band Edge / 1RB



Highest Band Edge / Full RB

