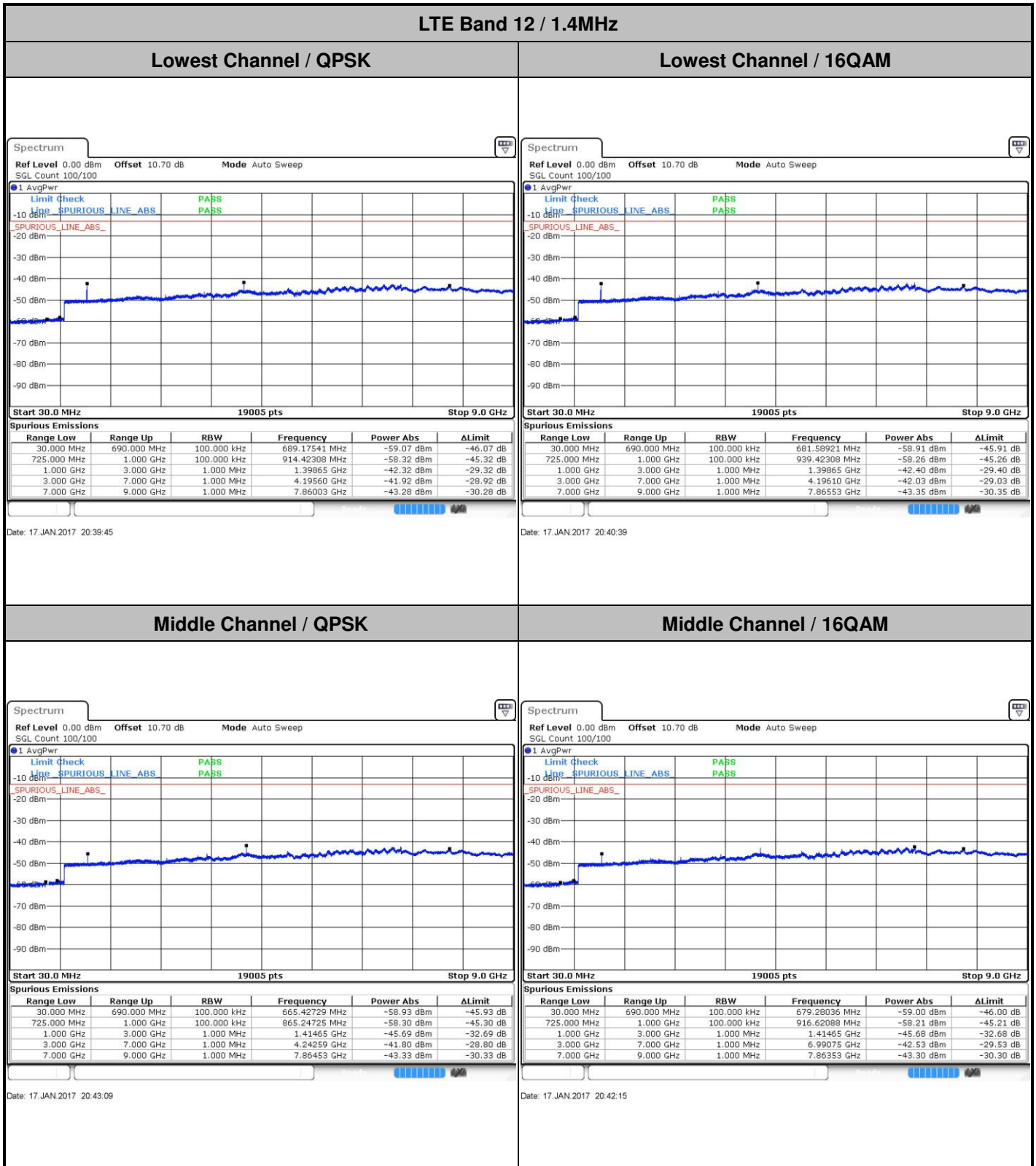




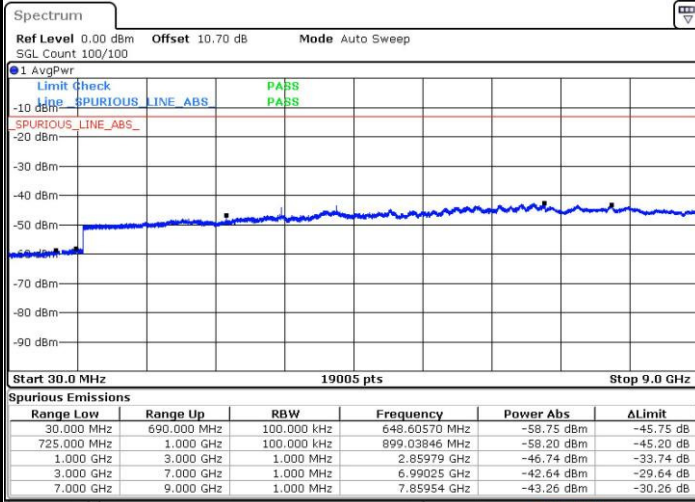
# Conducted Spurious Emission





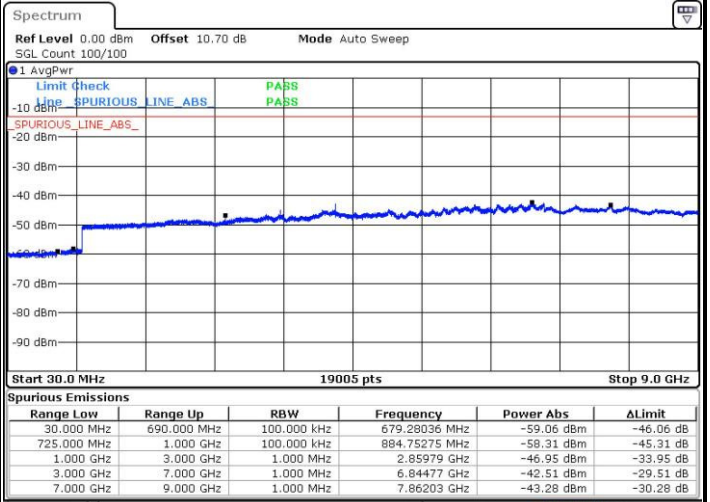
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 17.JAN.2017 20:49:21

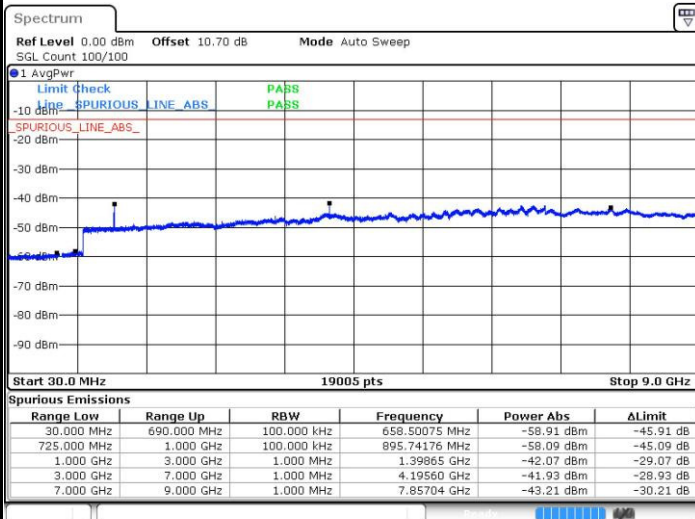
Highest Channel / 16QAM



Date: 17.JAN.2017 20:50:15

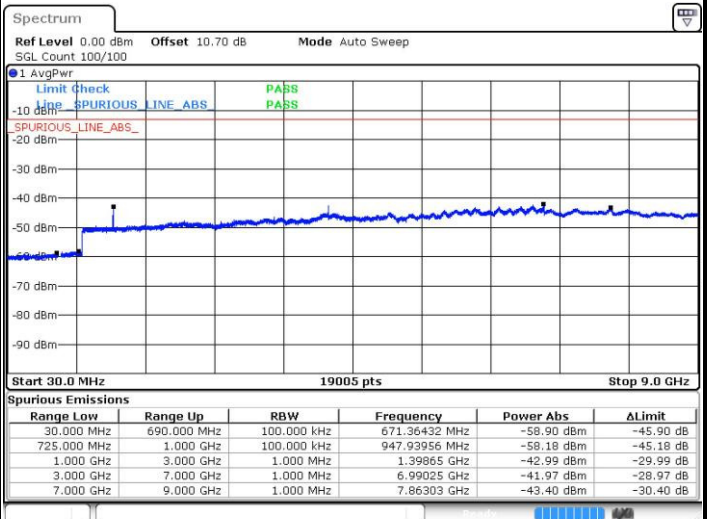
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 17.JAN.2017 19:17:58

Lowest Channel / 16QAM



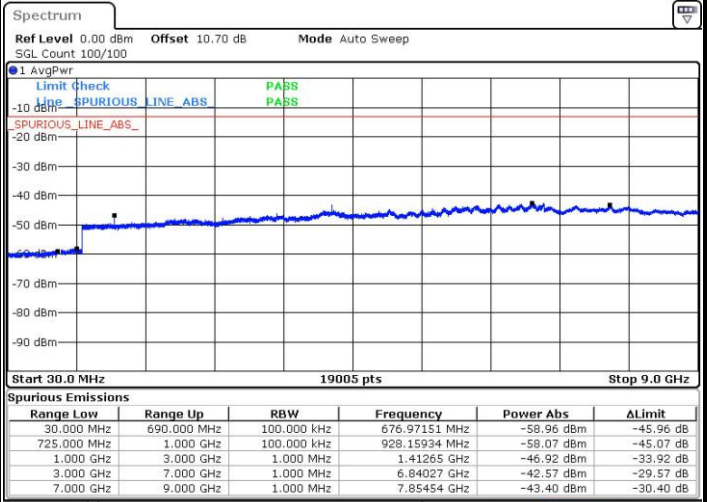
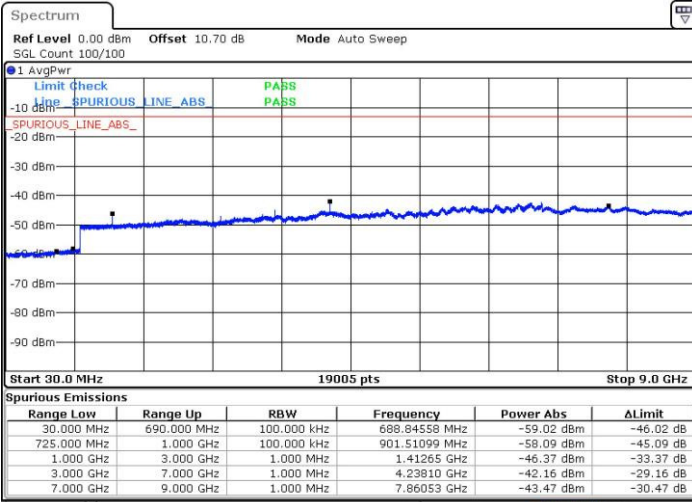
Date: 17.JAN.2017 19:18:52



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

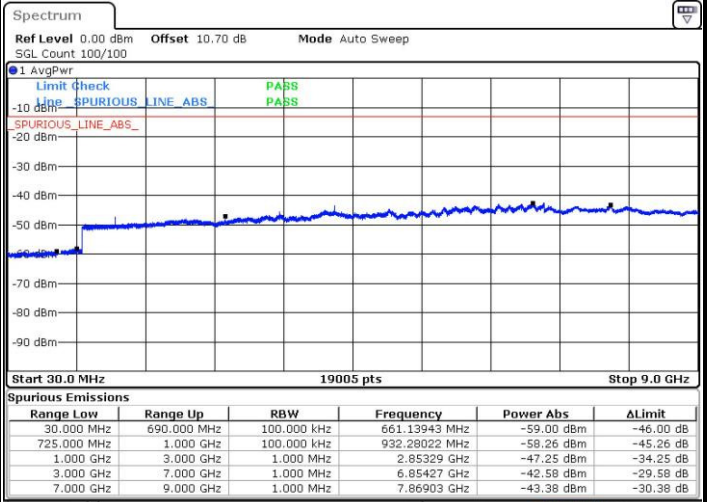
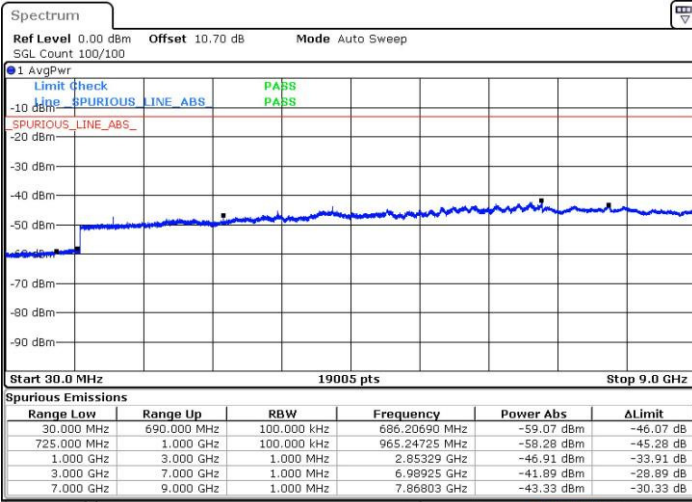


Date: 17. JAN 2017 19:21:22

Date: 17. JAN 2017 19:20:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 17. JAN 2017 19:27:34

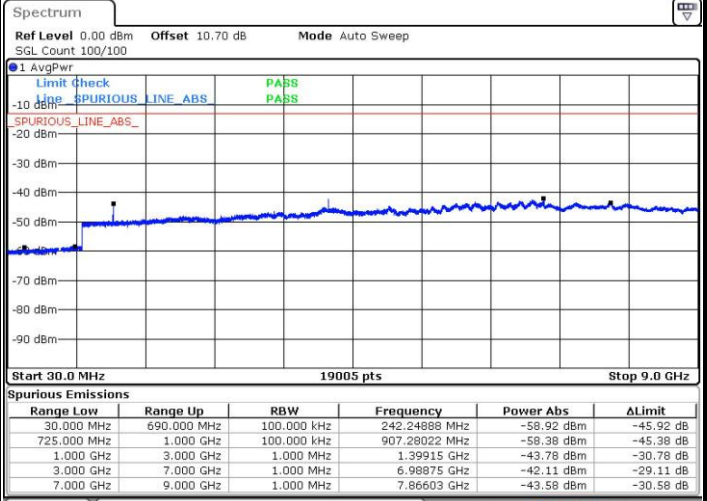
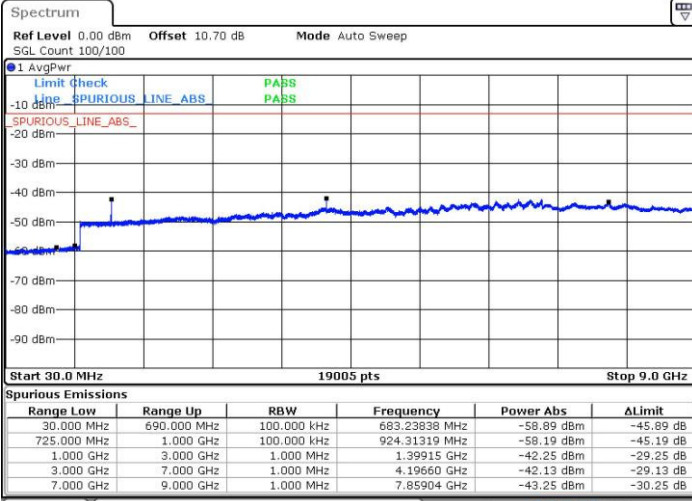
Date: 17. JAN 2017 19:28:28



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

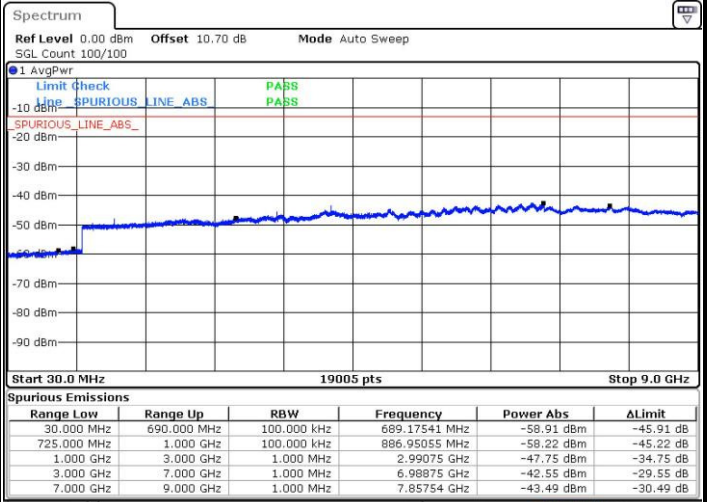
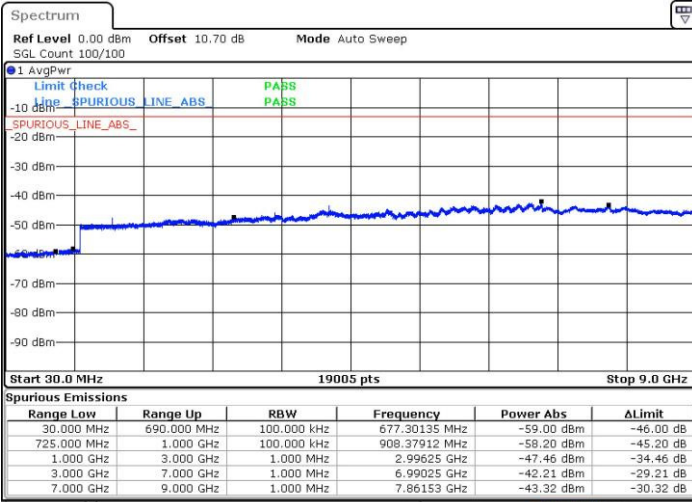


Date: 17. JAN 2017 19:34:41

Date: 17. JAN 2017 19:35:35

Middle Channel / QPSK

Middle Channel / 16QAM



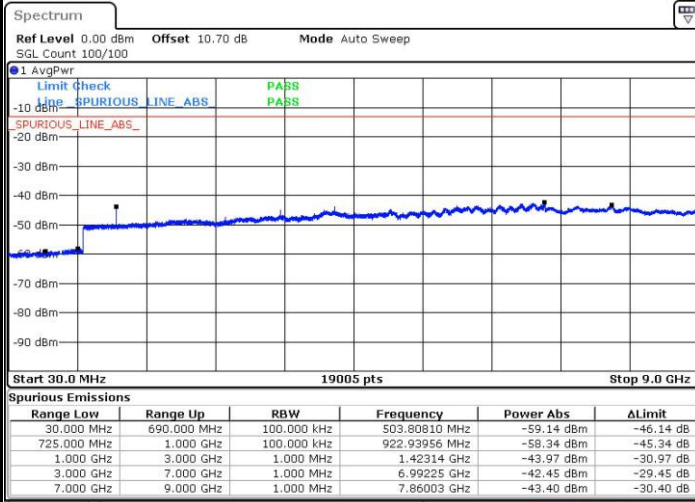
Date: 17. JAN 2017 19:38:05

Date: 17. JAN 2017 19:37:11



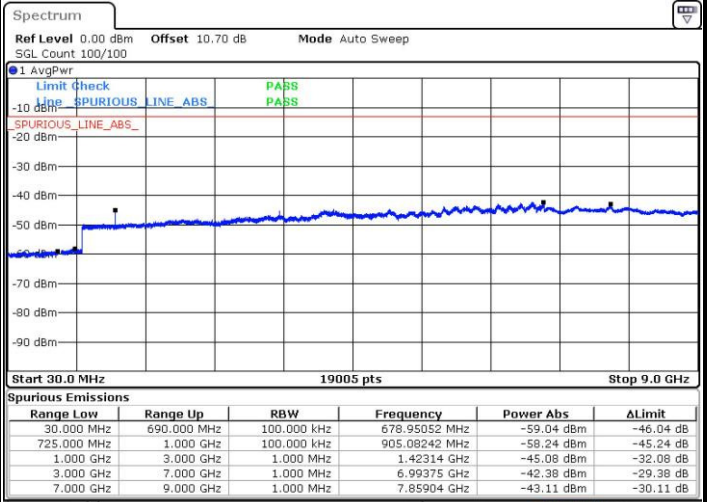
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 17. JAN 2017 19:45:12

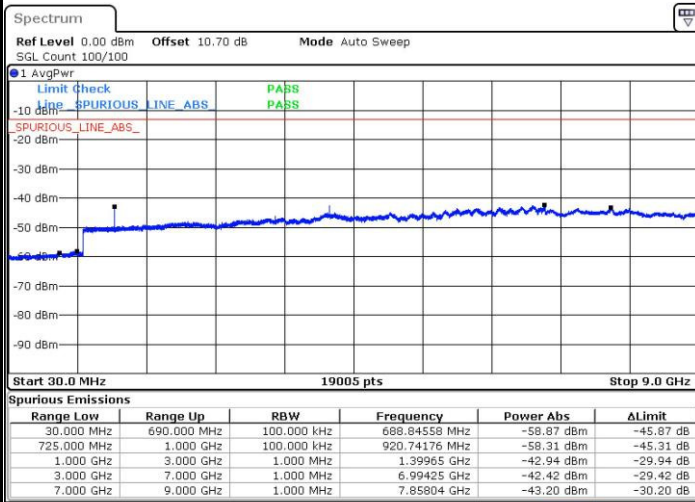
Highest Channel / 16QAM



Date: 17. JAN 2017 19:44:18

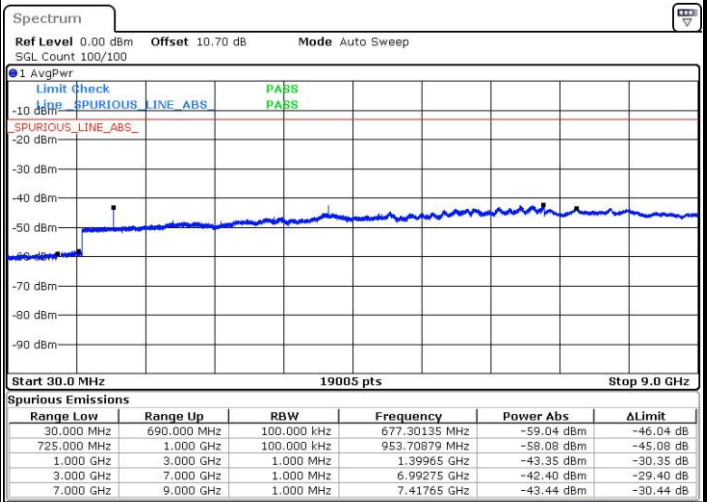
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 17. JAN 2017 19:51:25

Lowest Channel / 16QAM



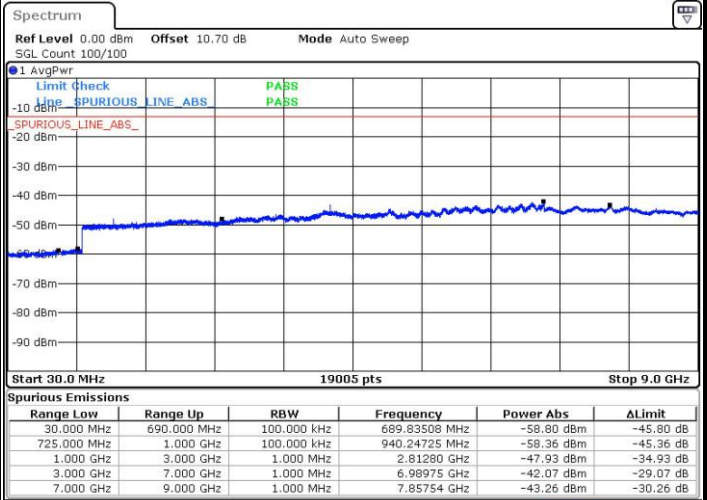
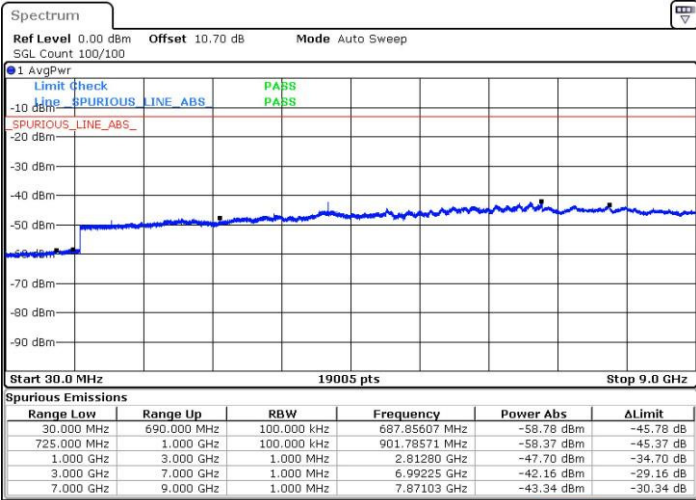
Date: 17. JAN 2017 19:52:19



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

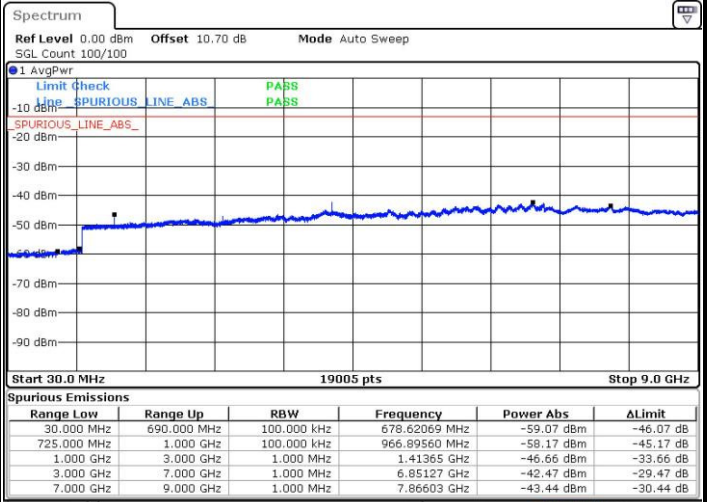
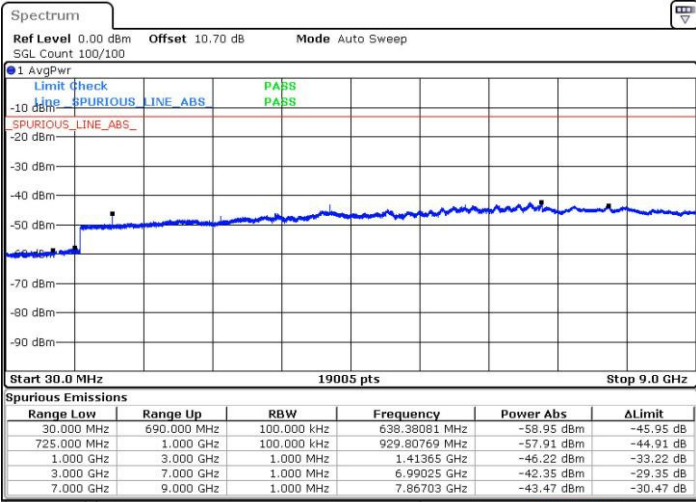


Date: 17. JAN 2017 19:54:49

Date: 17. JAN 2017 19:53:55

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 17. JAN 2017 20:01:01

Date: 17. JAN 2017 20:01:55



Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0068	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0057	
0	Normal Voltage	0.0062	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0055	
-30	Normal Voltage	0.0048	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0073	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





## LTE Band 17

### Peak-to-Average Ratio

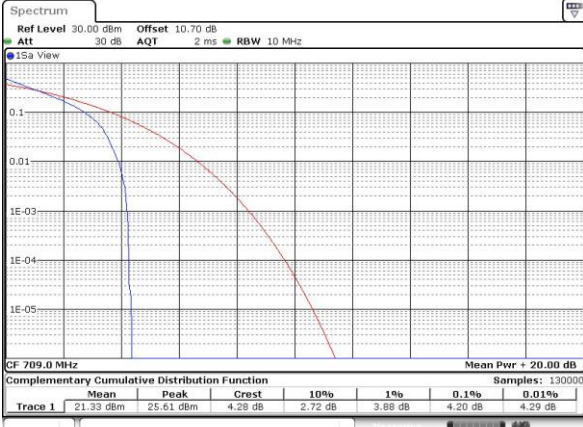
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.2	4.78	4.99	5.71	<b>PASS</b>
Middle CH	4.26	4.67	5.13	5.68	
Highest CH	4.2	4.72	5.07	5.59	





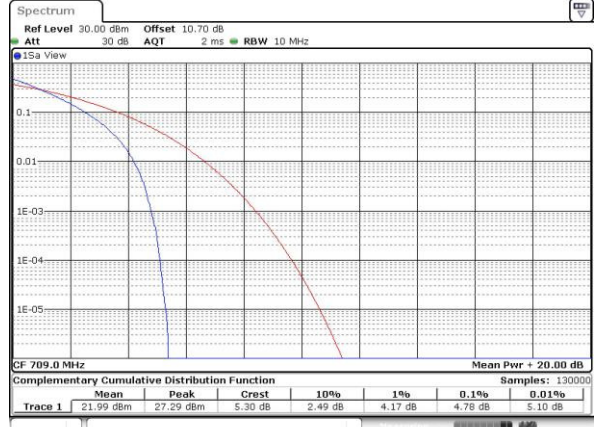
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



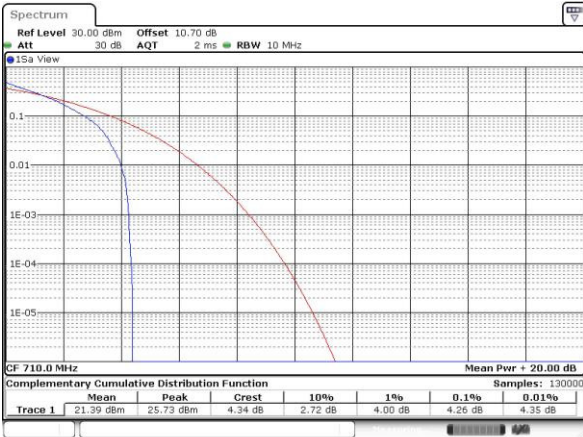
Date: 17 JAN 2017 20:55:37

Lowest Channel / Full RB



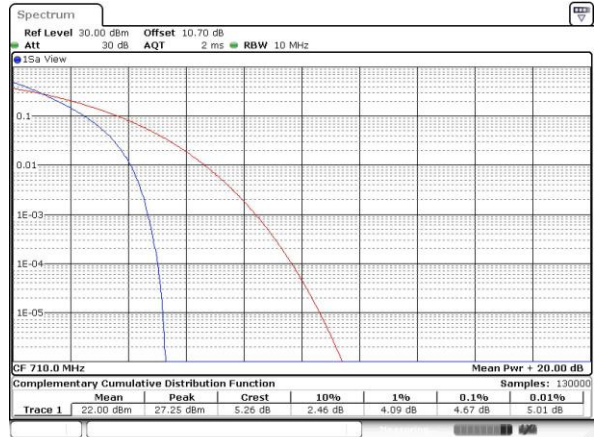
Date: 17 JAN 2017 20:55:46

Middle Channel / 1RB



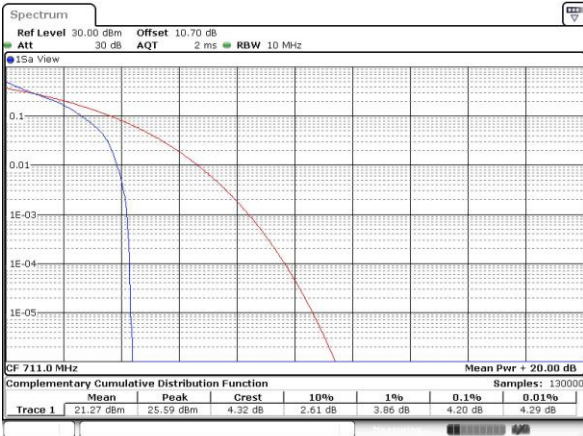
Date: 17 JAN 2017 20:55:56

Middle Channel / Full RB



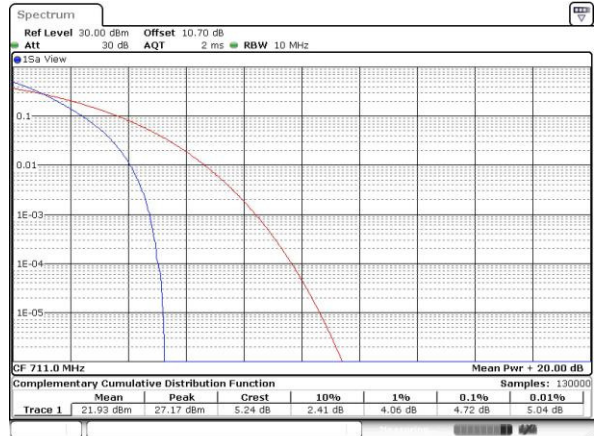
Date: 17 JAN 2017 20:56:07

Highest Channel / 1RB



Date: 17 JAN 2017 20:56:17

Highest Channel / Full RB

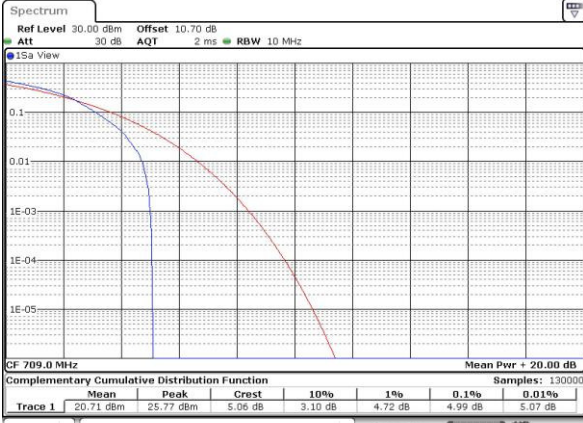


Date: 17 JAN 2017 20:56:26



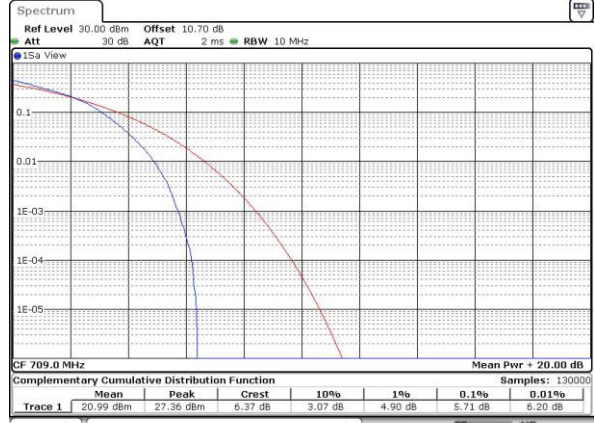
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 17 JAN 2017 20:54:26

Lowest Channel / Full RB



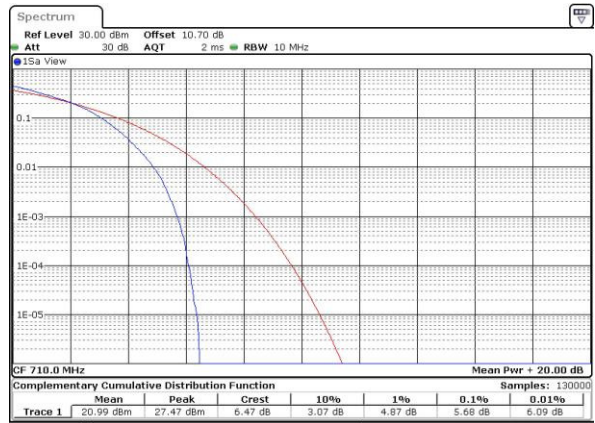
Date: 17 JAN 2017 20:54:36

Middle Channel / 1RB



Date: 17 JAN 2017 20:54:46

Middle Channel / Full RB



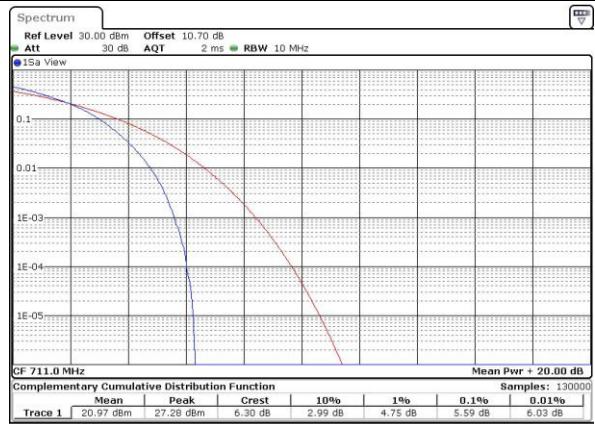
Date: 17 JAN 2017 20:55:00

Highest Channel / 1RB



Date: 17 JAN 2017 20:55:17

Highest Channel / Full RB



Date: 17 JAN 2017 20:55:26



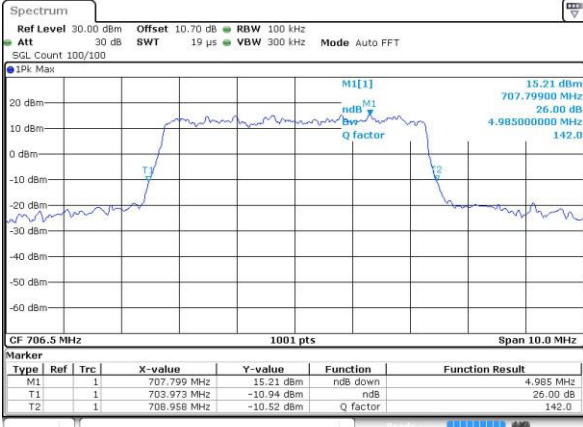
**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.985	4.995	9.81	9.83	-	-	-	-
Middle CH	-	-	-	-	4.885	5.035	9.83	9.73	-	-	-	-
Highest CH	-	-	-	-	4.965	4.875	9.65	9.83	-	-	-	-



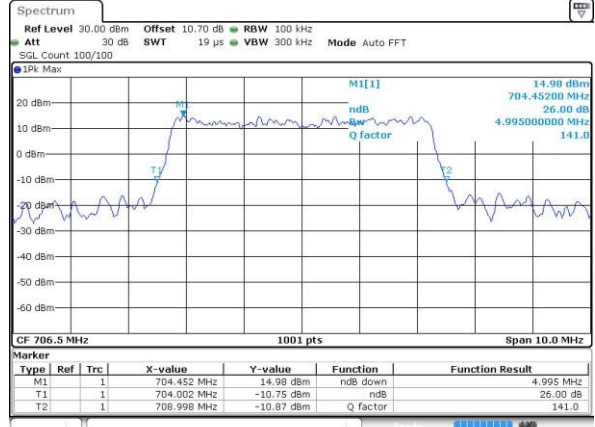
LTE Band 17

Lowest Channel / 5MHz / QPSK



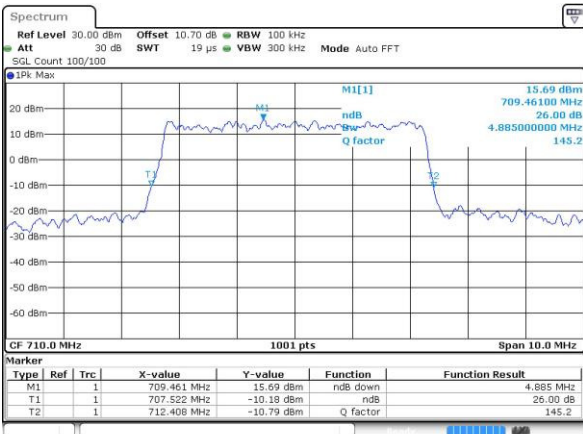
Date: 17 JAN 2017 20:02:26

Lowest Channel / 5MHz / 16QAM



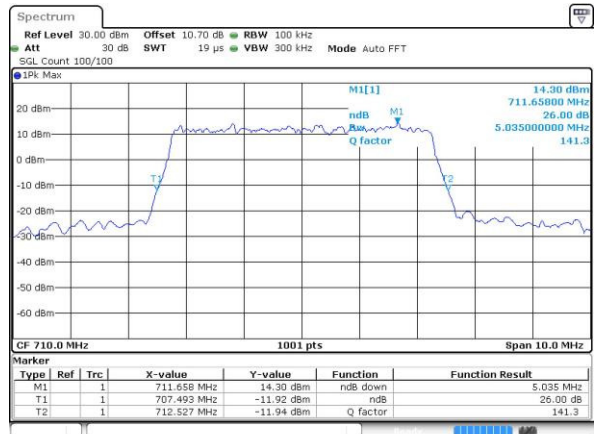
Date: 17 JAN 2017 20:02:36

Middle Channel / 5MHz / QPSK



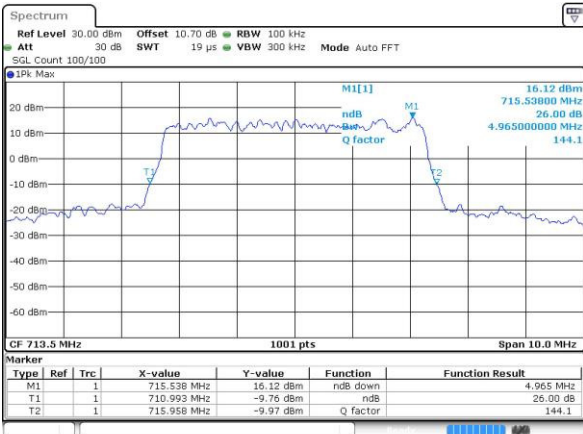
Date: 17 JAN 2017 20:09:32

Middle Channel / 5MHz / 16QAM



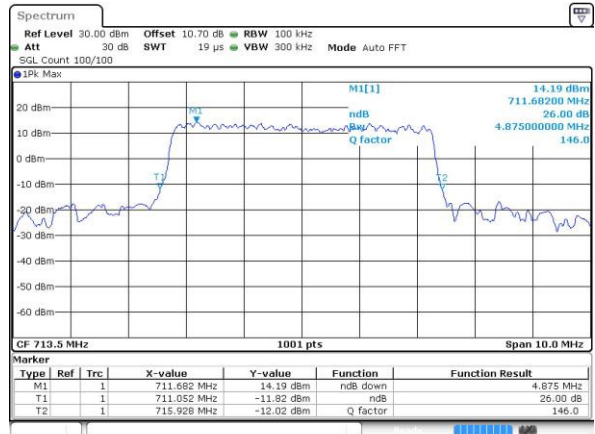
Date: 17 JAN 2017 20:09:43

Highest Channel / 5MHz / QPSK



Date: 17 JAN 2017 20:12:03

Highest Channel / 5MHz / 16QAM

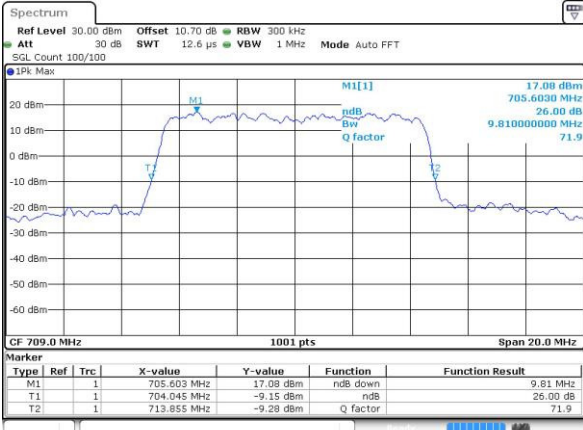


Date: 17 JAN 2017 20:12:13



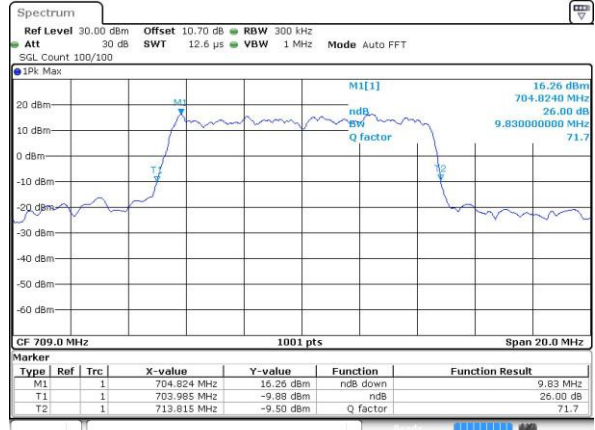
LTE Band 17

Lowest Channel / 10MHz / QPSK



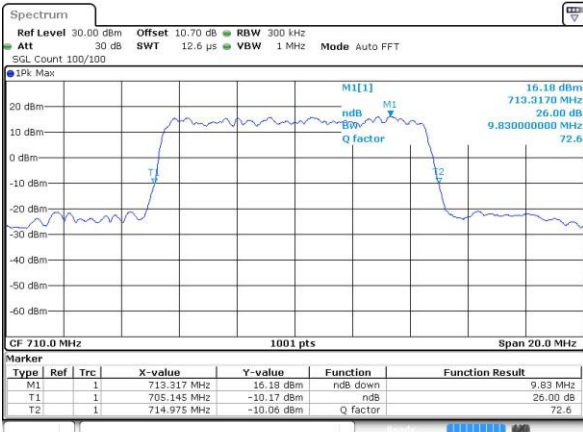
Date: 17 JAN 2017 20:19:09

Lowest Channel / 10MHz / 16QAM



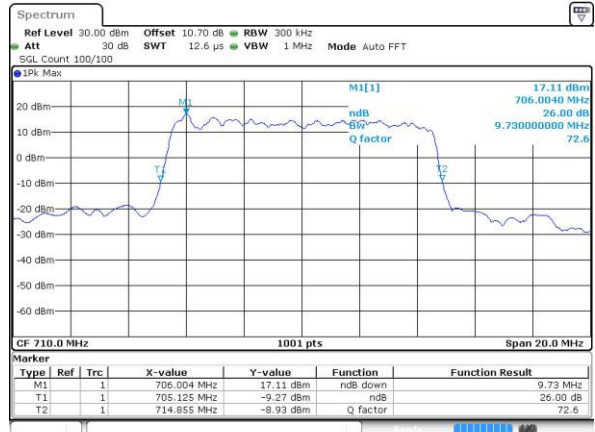
Date: 17 JAN 2017 20:19:20

Middle Channel / 10MHz / QPSK



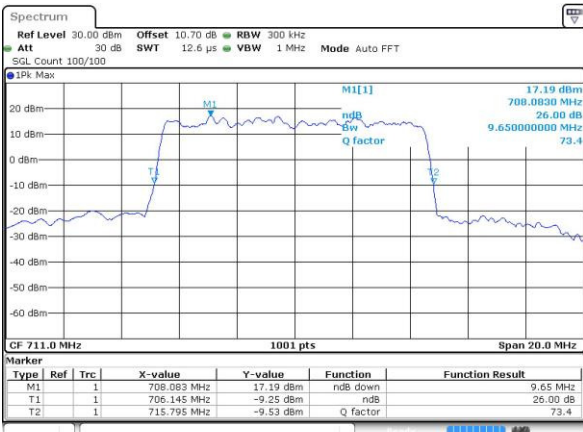
Date: 17 JAN 2017 20:26:16

Middle Channel / 10MHz / 16QAM



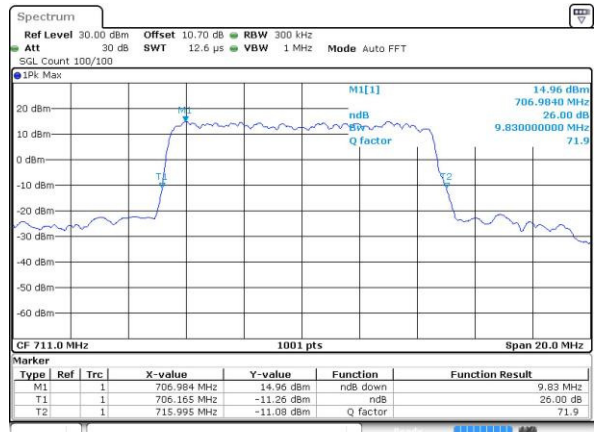
Date: 17 JAN 2017 20:26:26

Highest Channel / 10MHz / QPSK



Date: 17 JAN 2017 20:28:46

Highest Channel / 10MHz / 16QAM



Date: 17 JAN 2017 20:28:56



### Occupied Bandwidth

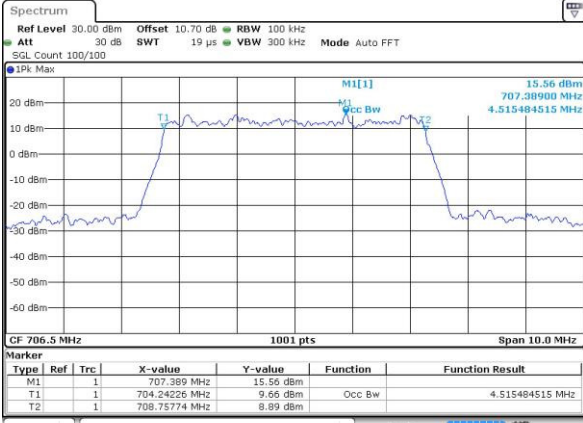
Mode	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.52	4.5	9.05	9.05	-	-	-	-
Middle CH	-	-	-	-	4.53	4.5	9.07	9.07	-	-	-	-
Highest CH	-	-	-	-	4.51	4.49	9.05	8.97	-	-	-	-





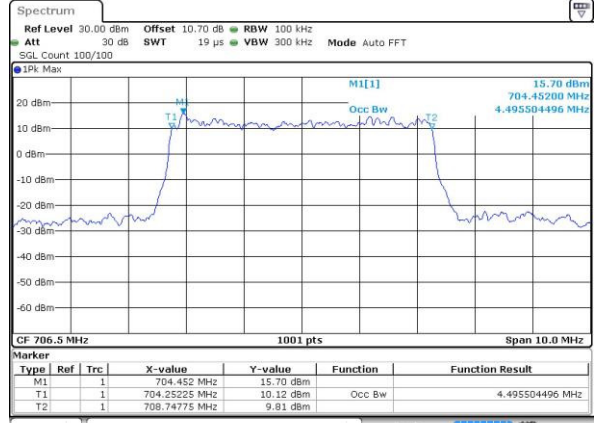
LTE Band 17

Lowest Channel / 5MHz / QPSK



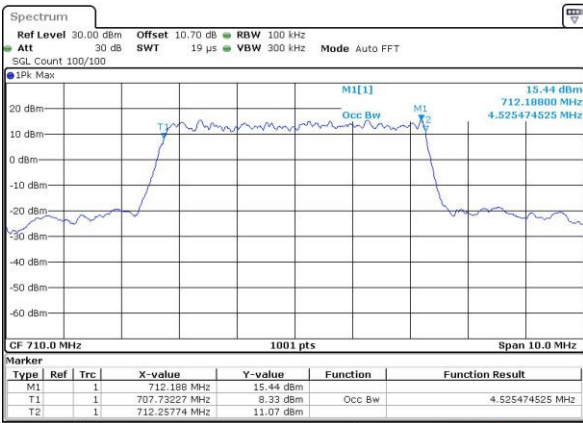
Date: 17 JAN 2017 20:02:05

Lowest Channel / 5MHz / 16QAM



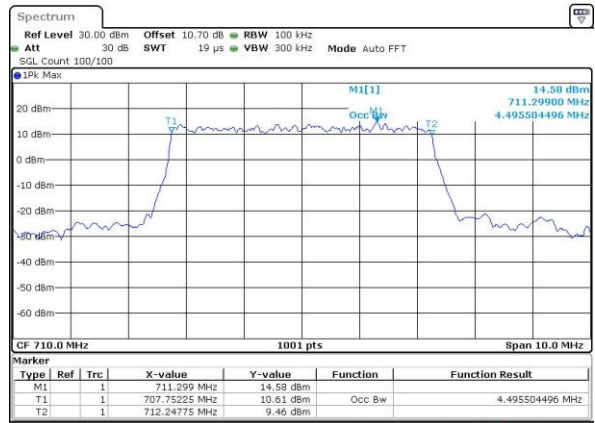
Date: 17 JAN 2017 20:02:16

Middle Channel / 5MHz / QPSK



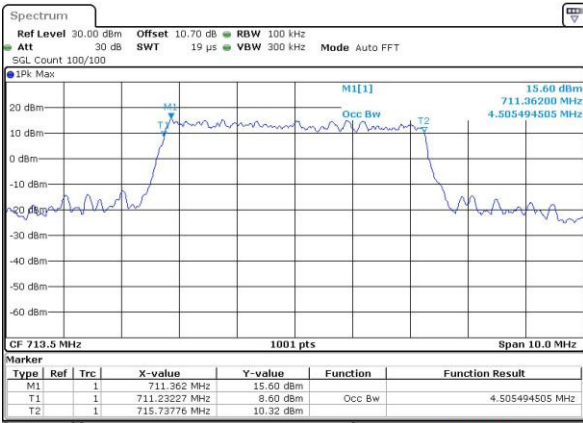
Date: 17 JAN 2017 20:09:12

Middle Channel / 5MHz / 16QAM



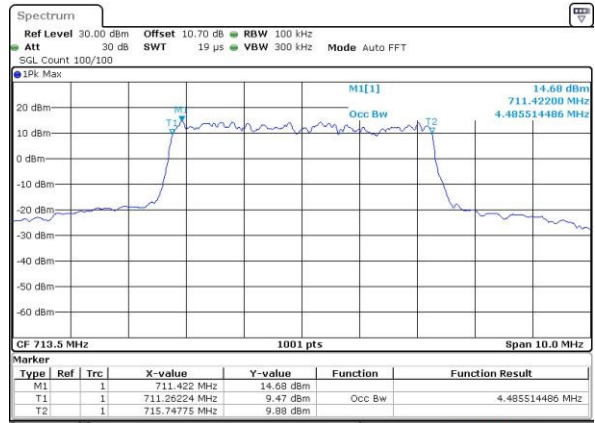
Date: 17 JAN 2017 20:09:22

Highest Channel / 5MHz / QPSK



Date: 17 JAN 2017 20:11:42

Highest Channel / 5MHz / 16QAM



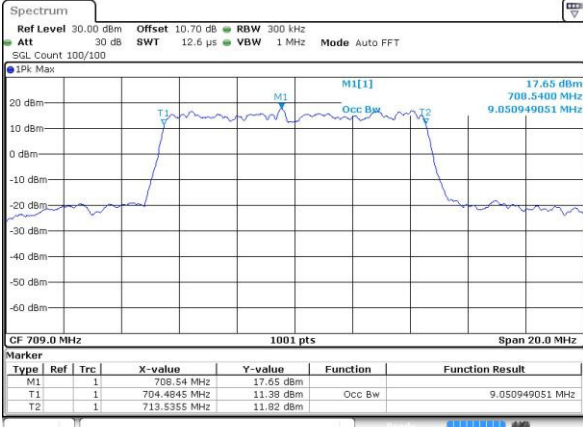
Date: 17 JAN 2017 20:11:52





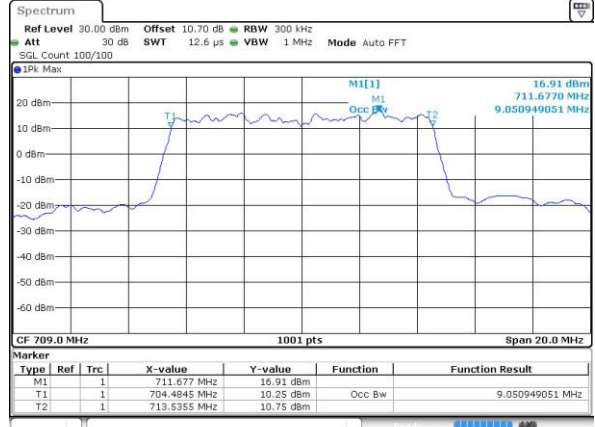
LTE Band 17

Lowest Channel / 10MHz / QPSK



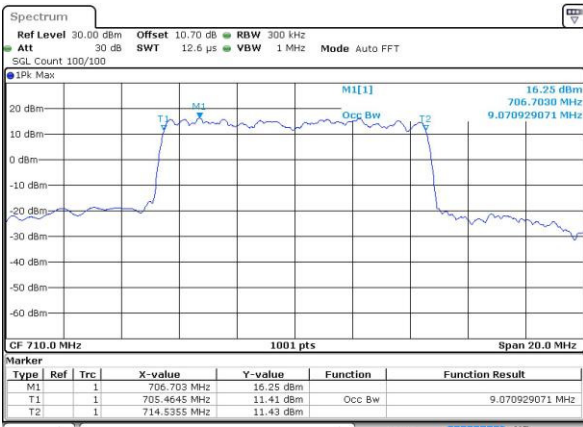
Date: 17 JAN 2017 20:18:49

Lowest Channel / 10MHz / 16QAM



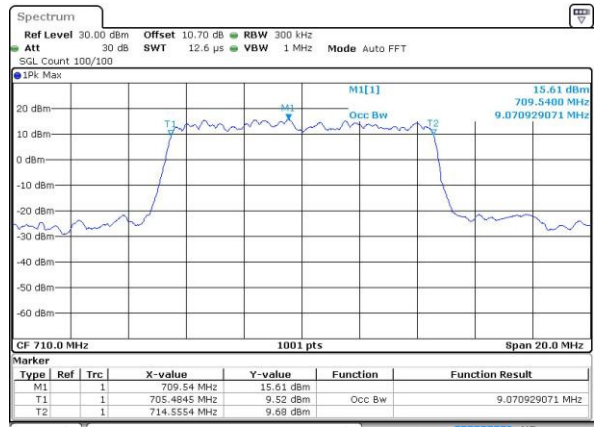
Date: 17 JAN 2017 20:18:59

Middle Channel / 10MHz / QPSK



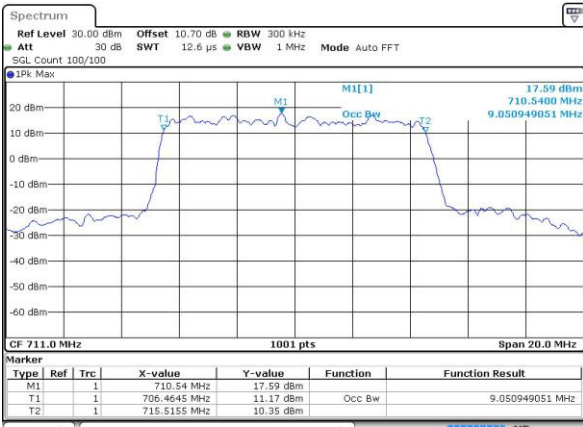
Date: 17 JAN 2017 20:25:55

Middle Channel / 10MHz / 16QAM



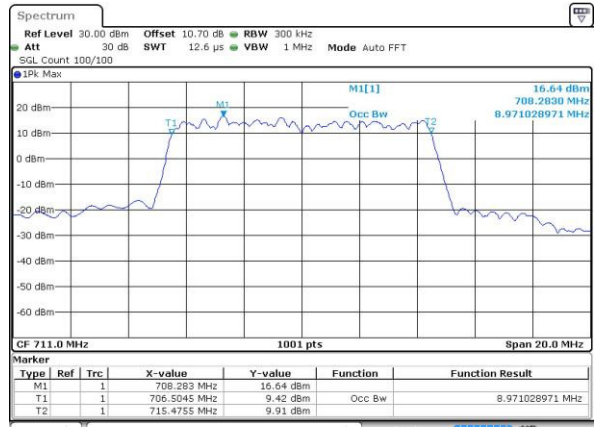
Date: 17 JAN 2017 20:26:06

Highest Channel / 10MHz / QPSK



Date: 17 JAN 2017 20:28:25

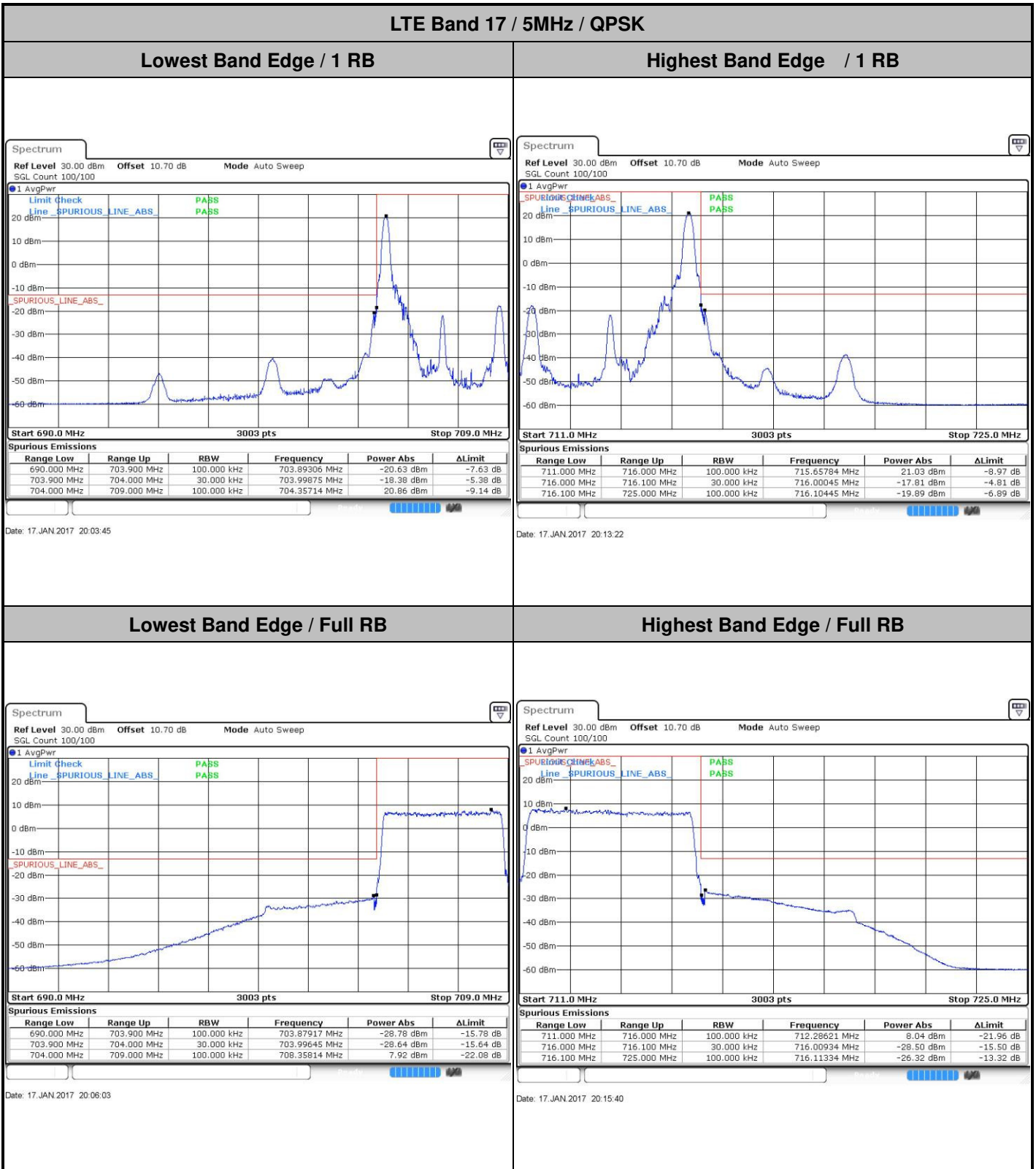
Highest Channel / 10MHz / 16QAM



Date: 17 JAN 2017 20:28:35



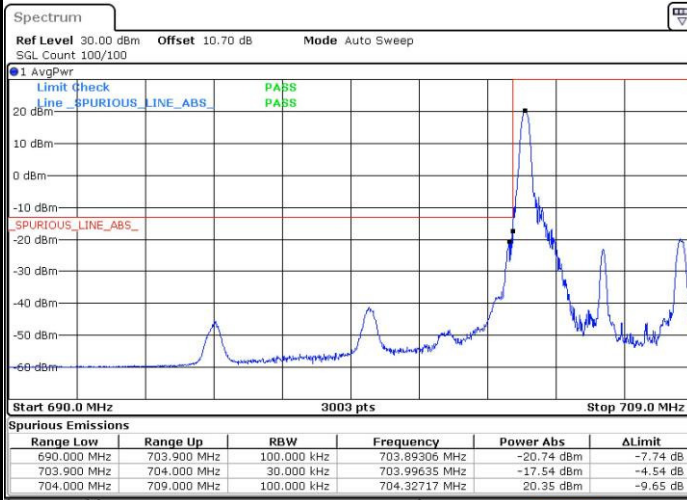
# Conducted Band Edge





LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



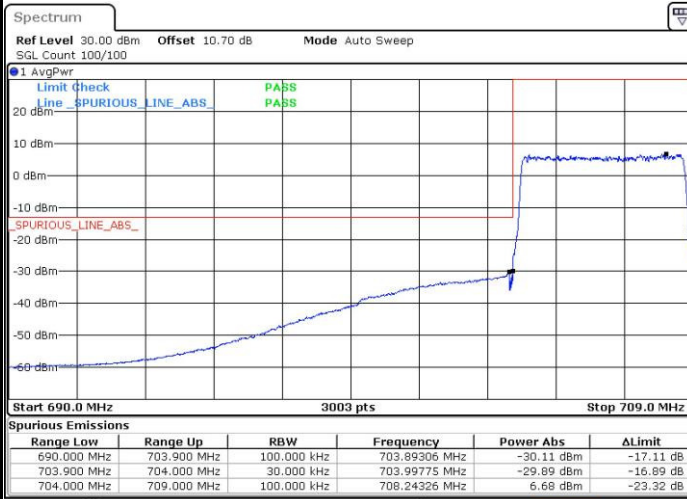
Date: 17.JAN.2017 20:04:54

Highest Band Edge / 1 RB



Date: 17.JAN.2017 20:14:31

Lowest Band Edge / Full RB



Date: 17.JAN.2017 20:07:13

Highest Band Edge / Full RB

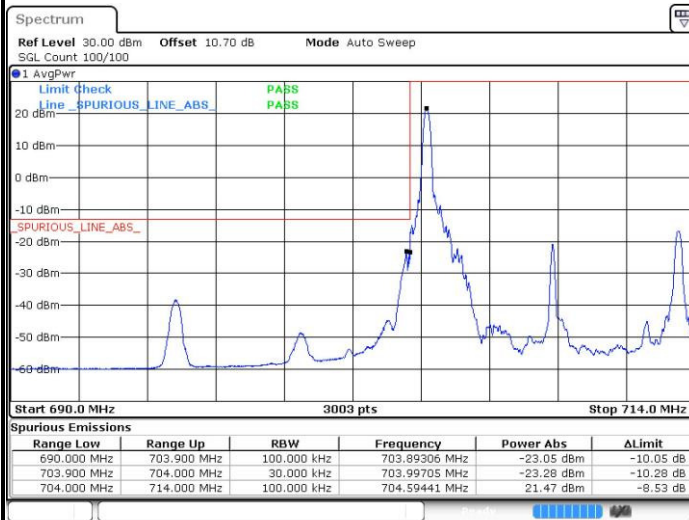


Date: 17.JAN.2017 20:16:49



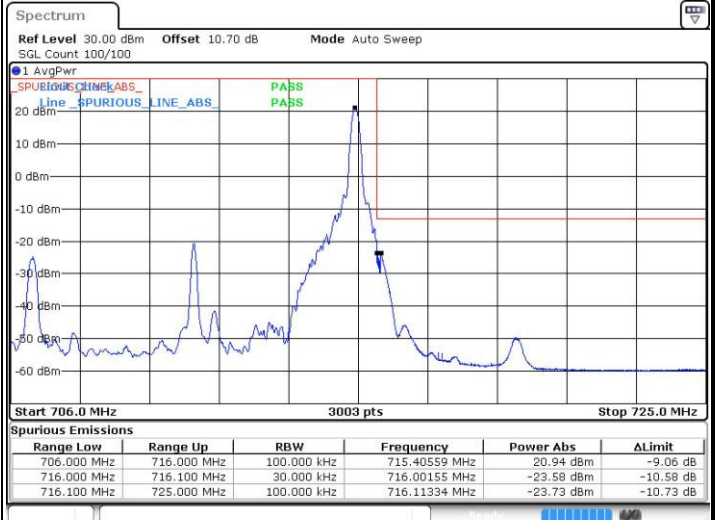
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



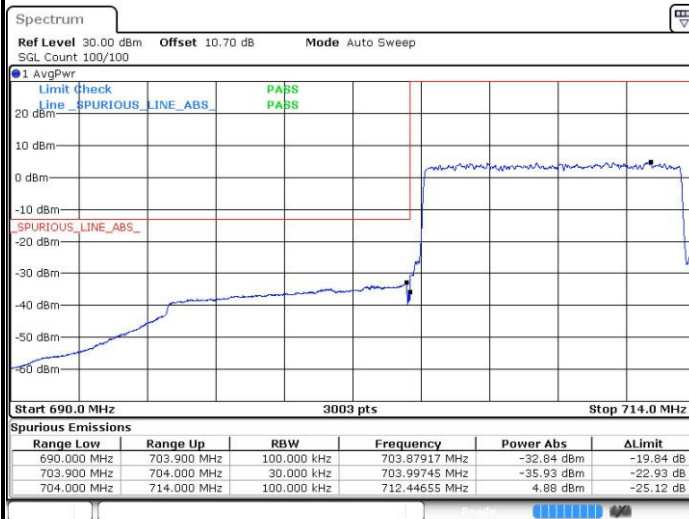
Date: 17.JAN.2017 20:20:28

Highest Band Edge / 1 RB



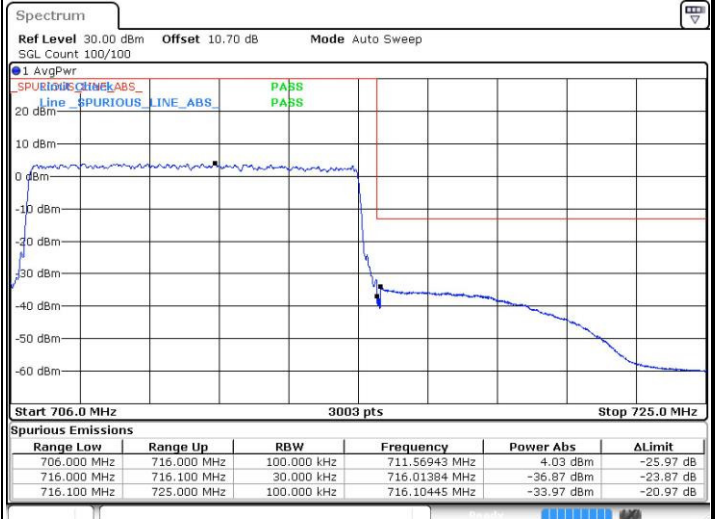
Date: 17.JAN.2017 20:30:05

Lowest Band Edge / Full RB



Date: 17.JAN.2017 20:22:47

Highest Band Edge / Full RB



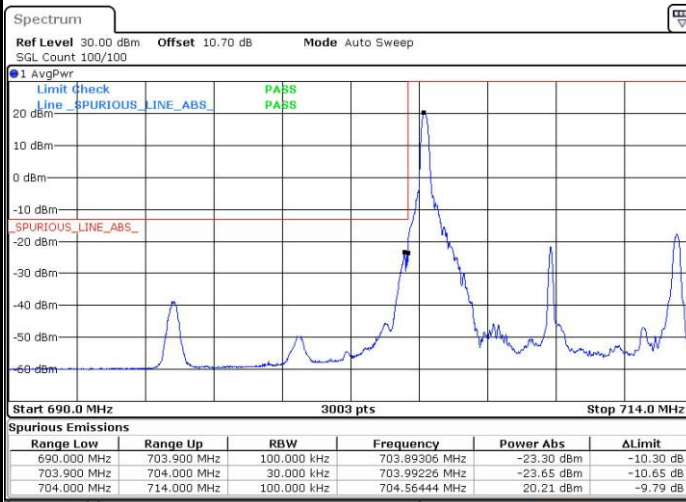
Date: 17.JAN.2017 20:32:23





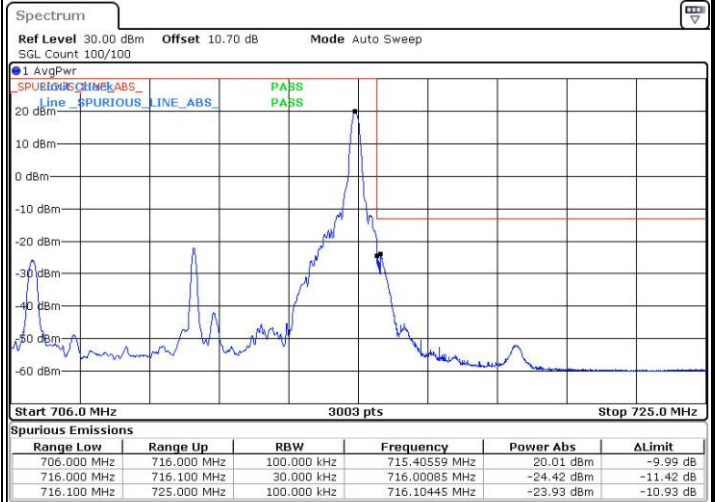
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



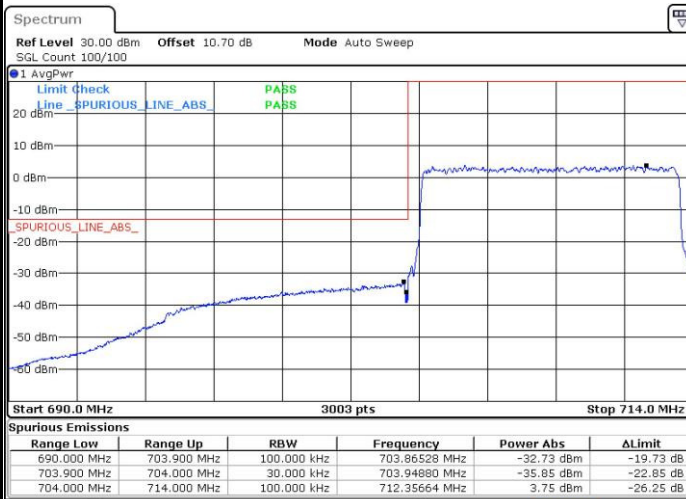
Date: 17.JAN.2017 20:21:38

Highest Band Edge / 1 RB



Date: 17.JAN.2017 20:31:14

Lowest Band Edge / Full RB



Date: 17.JAN.2017 20:23:56

Highest Band Edge / Full RB



Date: 17.JAN.2017 20:33:32



# Conducted Spurious Emission

