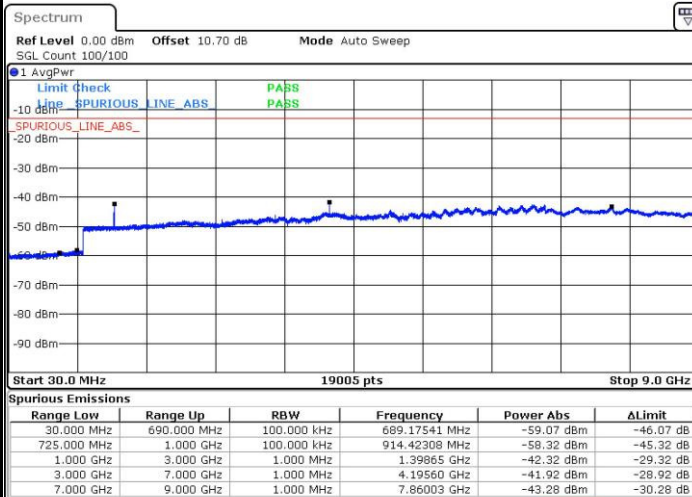




Conducted Spurious Emission

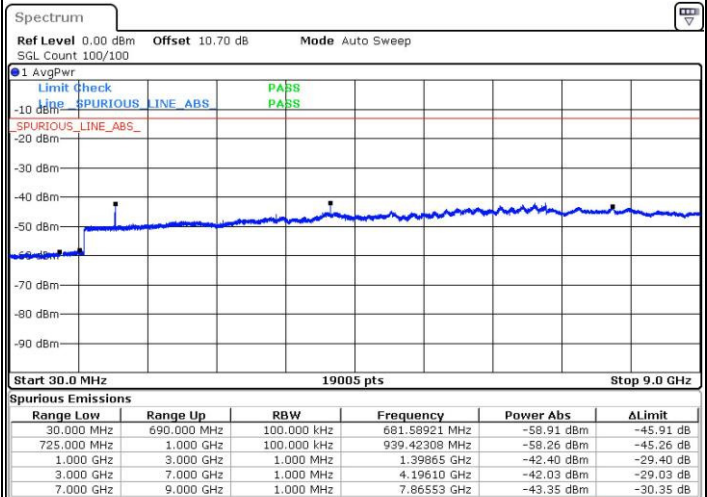
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



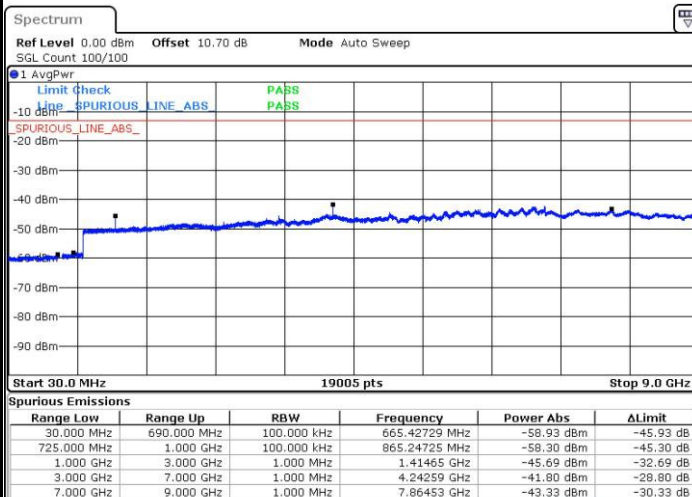
Date: 17.JAN.2017 20:39:45

Lowest Channel / 16QAM



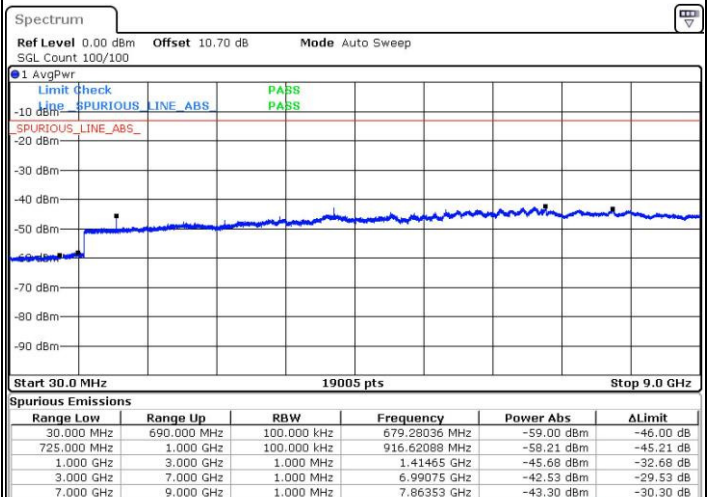
Date: 17.JAN.2017 20:40:39

Middle Channel / QPSK



Date: 17.JAN.2017 20:43:09

Middle Channel / 16QAM

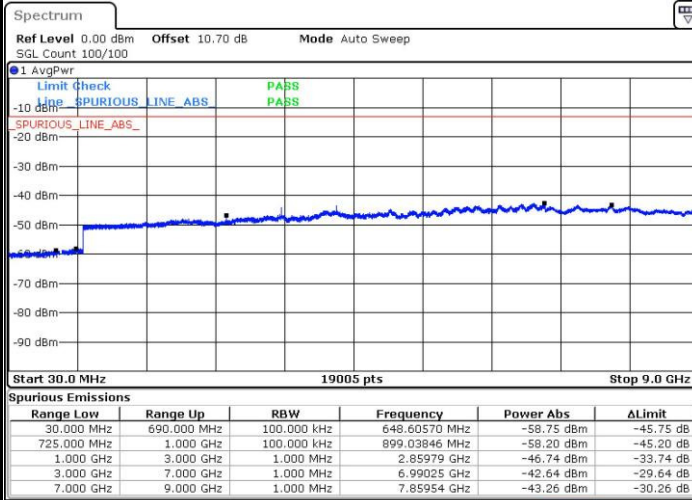


Date: 17.JAN.2017 20:42:15



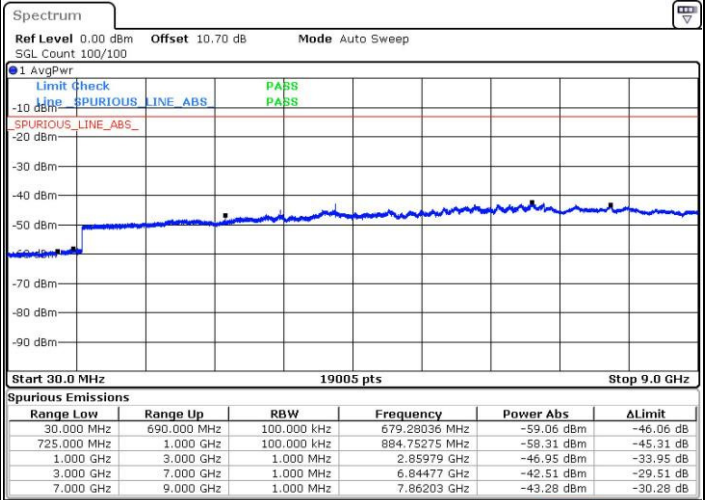
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



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

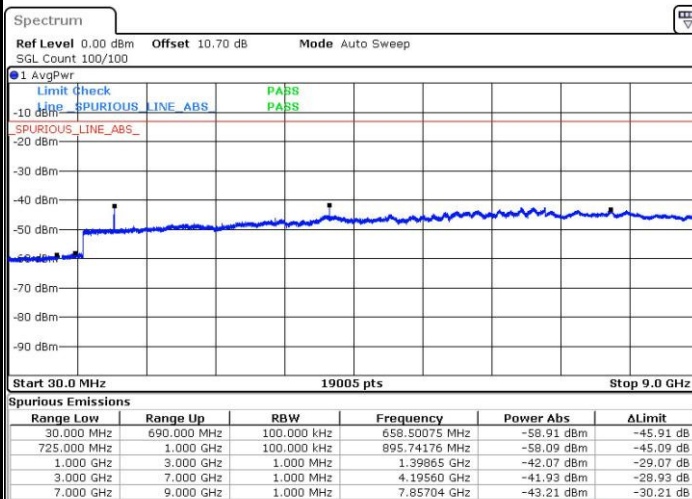
Highest Channel / 16QAM



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

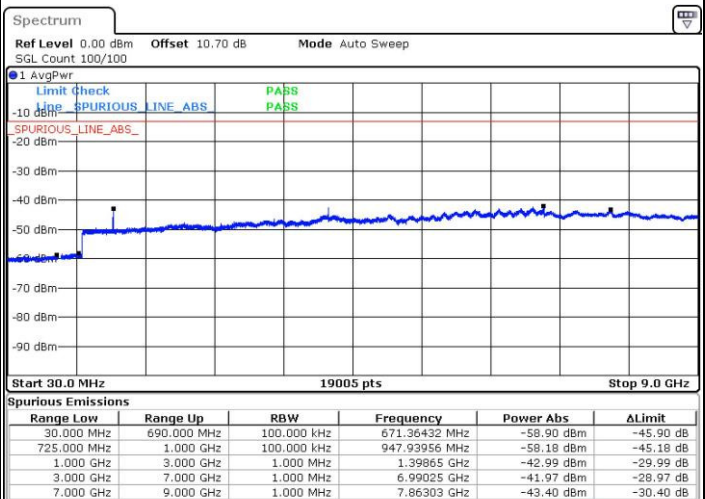
LTE Band 12 / 3MHz

Lowest Channel / QPSK



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

Lowest Channel / 16QAM

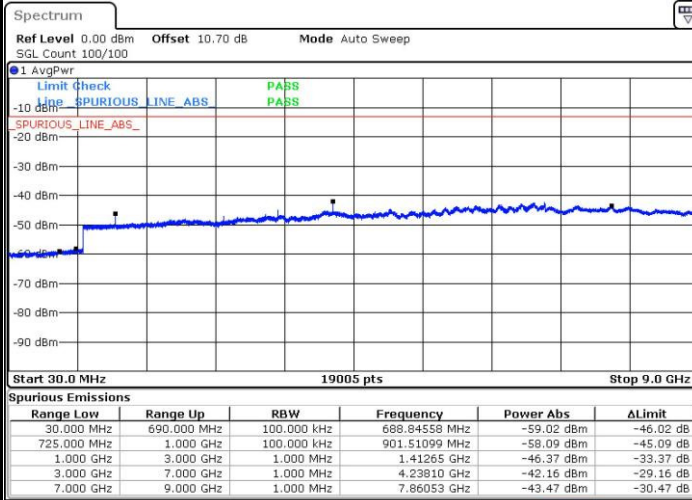


Date: 17.JAN.2017 19:18:52



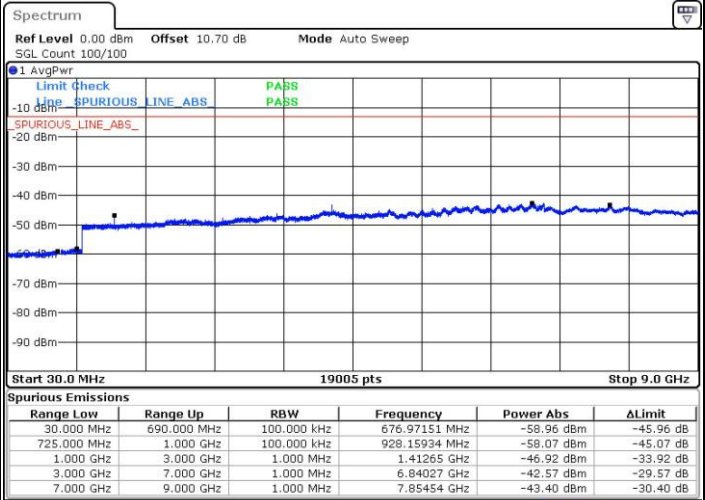
LTE Band 12 / 3MHz

Middle Channel / QPSK



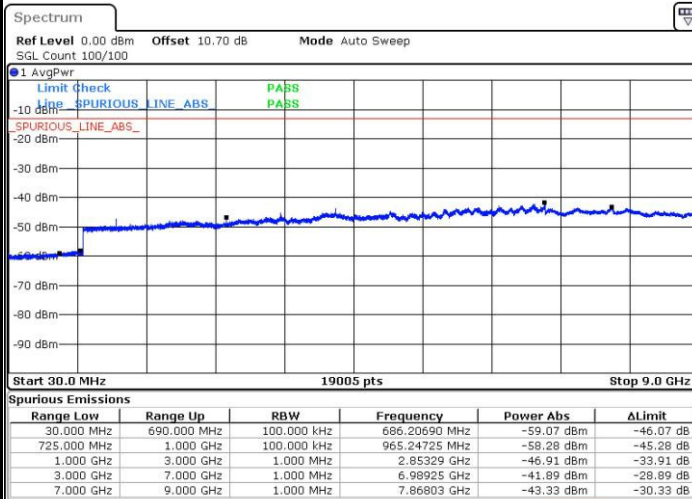
Date: 17.JAN.2017 19:21:22

Middle Channel / 16QAM



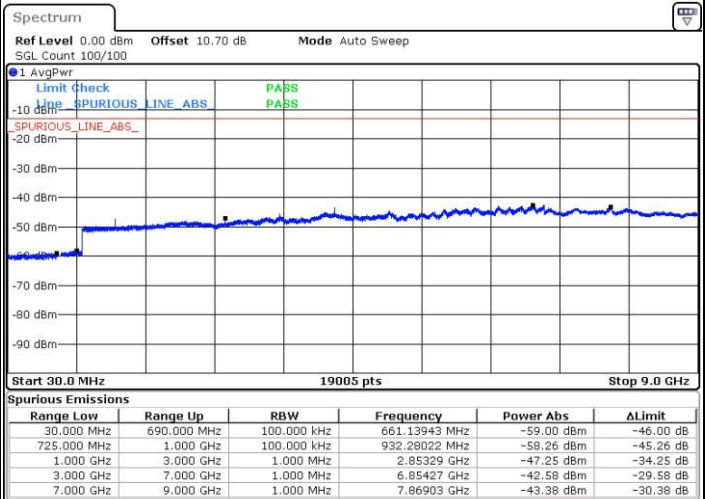
Date: 17.JAN.2017 19:20:27

Highest Channel / QPSK



Date: 17.JAN.2017 19:27:34

Highest Channel / 16QAM

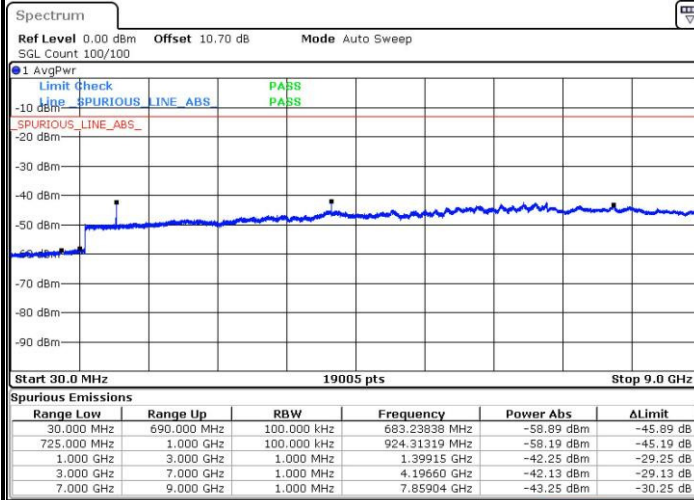


Date: 17.JAN.2017 19:28:28



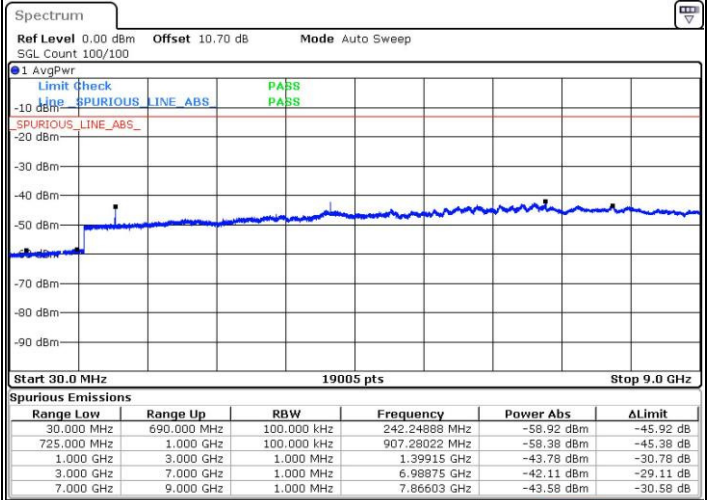
LTE Band 12 / 5MHz

Lowest Channel / QPSK



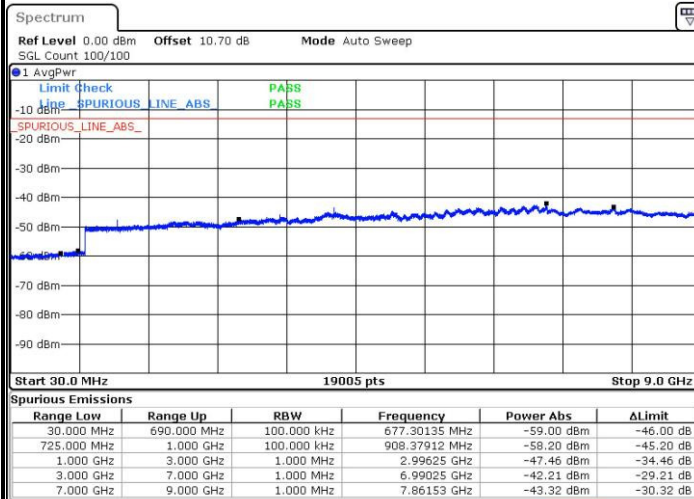
Date: 17.JAN.2017 19:34:41

Lowest Channel / 16QAM



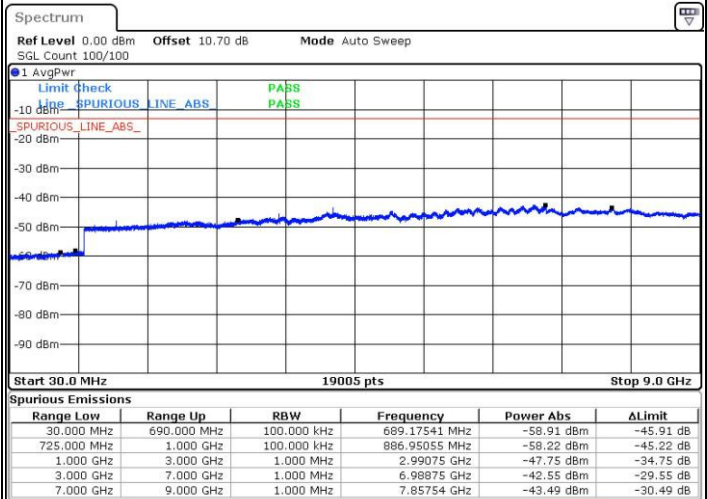
Date: 17.JAN.2017 19:35:35

Middle Channel / QPSK



Date: 17.JAN.2017 19:38:05

Middle Channel / 16QAM

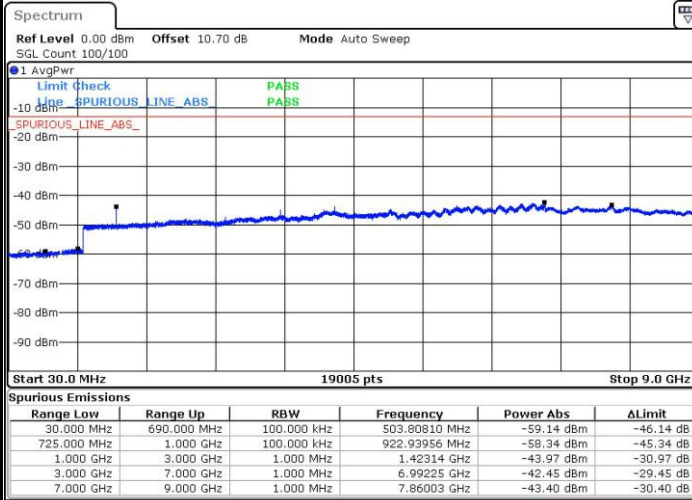


Date: 17.JAN.2017 19:37:11



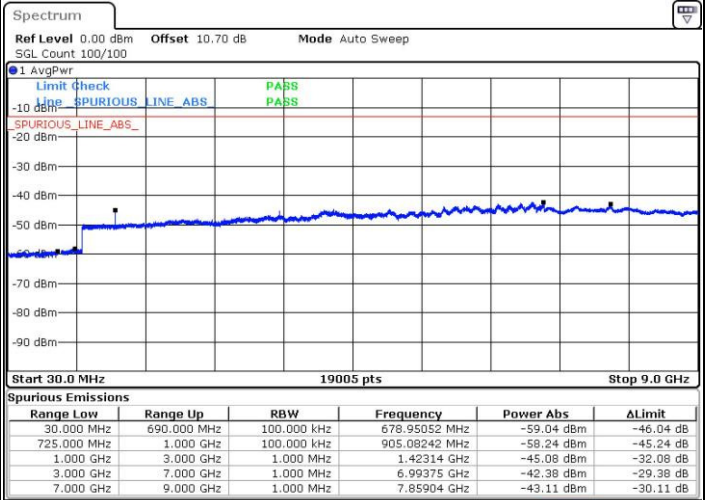
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 17.JAN.2017 19:45:12

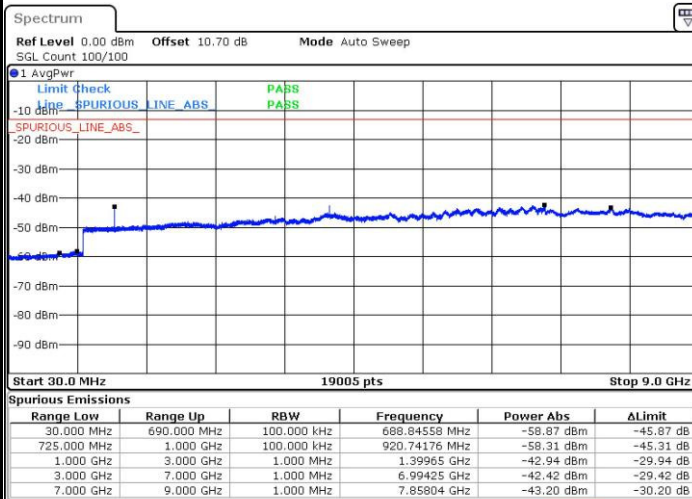
Highest Channel / 16QAM



Date: 17.JAN.2017 19:44:18

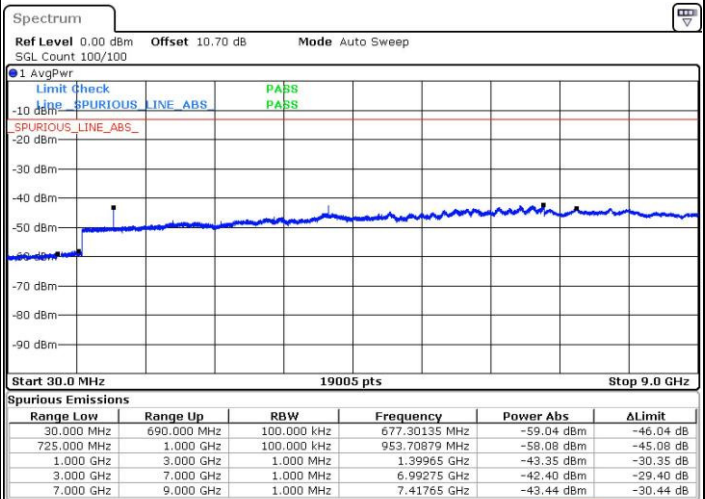
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 17.JAN.2017 19:51:25

Lowest Channel / 16QAM

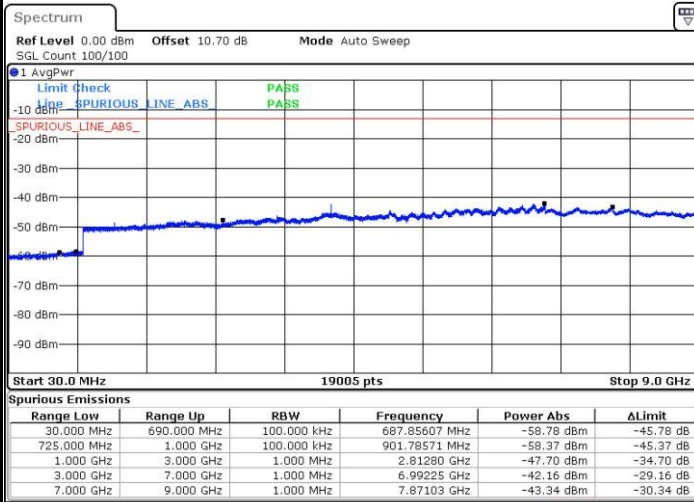


Date: 17.JAN.2017 19:52:19



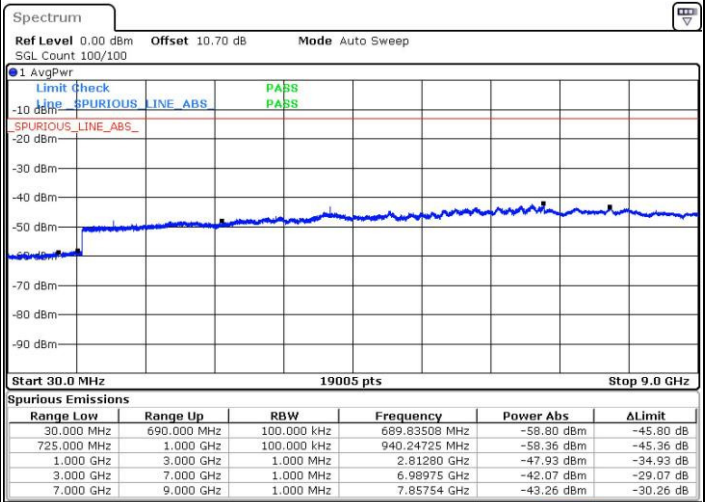
LTE Band 12 / 10MHz

Middle Channel / QPSK



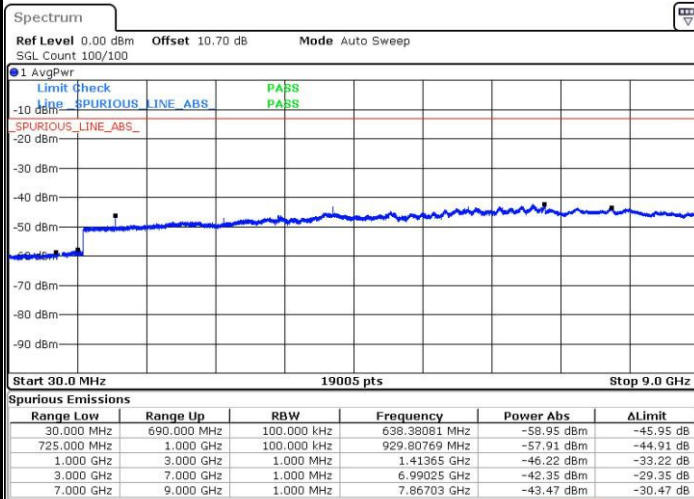
Date: 17.JAN.2017 19:54:49

Middle Channel / 16QAM



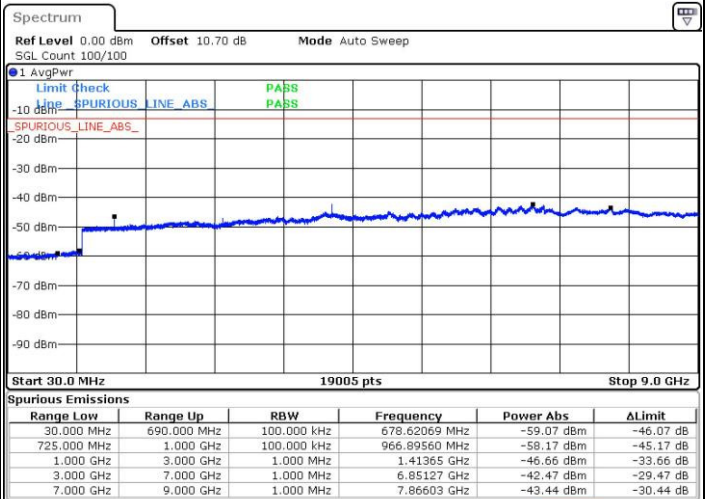
Date: 17.JAN.2017 19:53:55

Highest Channel / QPSK



Date: 17.JAN.2017 20:01:01

Highest Channel / 16QAM



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:

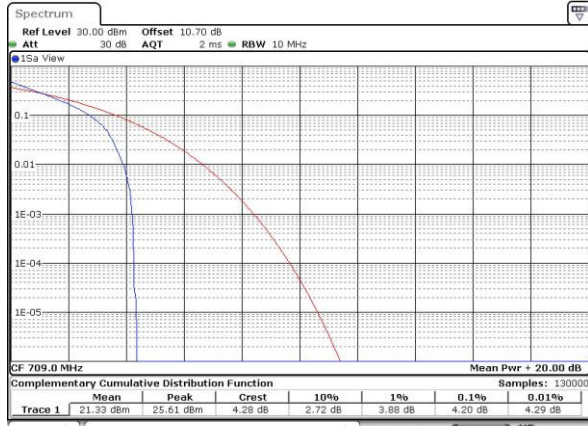
1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



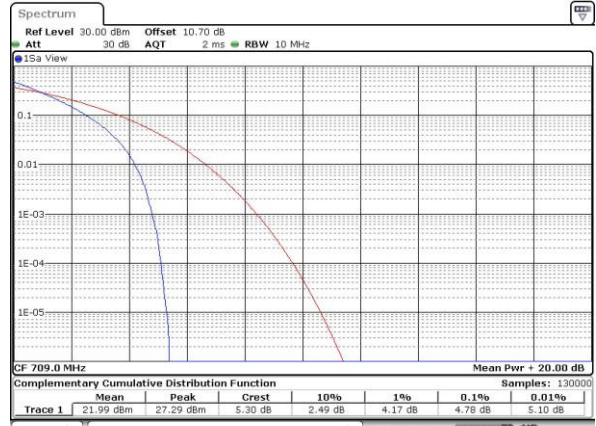
LTE Band 17

Peak-to-Average Ratio

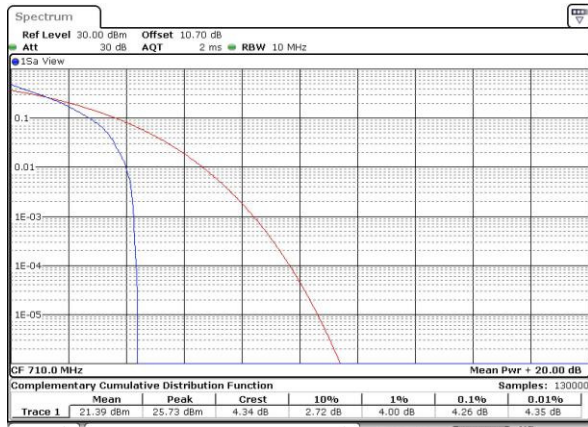
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.2	4.78	4.99	5.71	PASS
Middle CH	4.26	4.67	5.13	5.68	
Highest CH	4.2	4.72	5.07	5.59	

LTE Band 17 / 10MHz / QPSK
Lowest Channel / 1RB


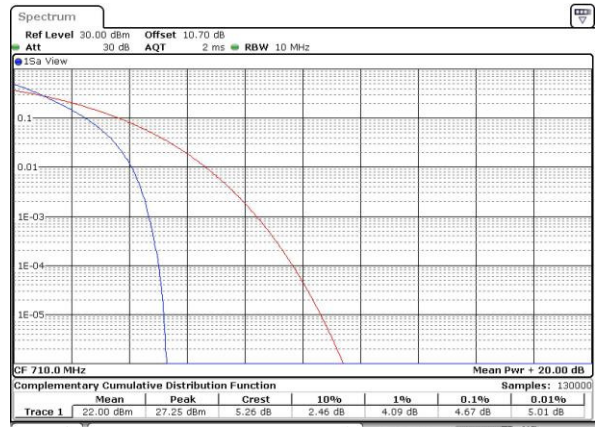
Date: 17 JAN 2017 20:55:37

Lowest Channel / Full RB


Date: 17 JAN 2017 20:55:46

Middle Channel/ 1RB


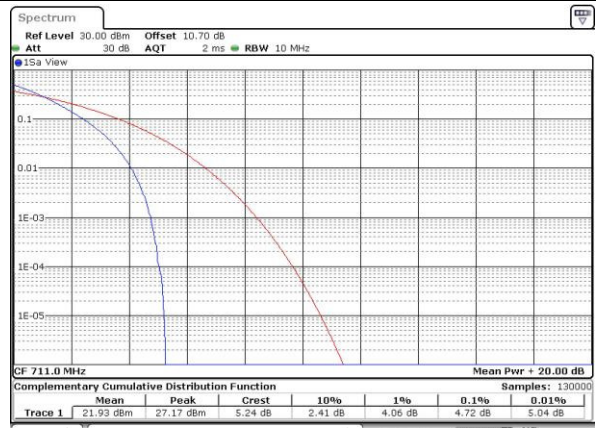
Date: 17 JAN 2017 20:55:56

Middle Channel / Full RB


Date: 17 JAN 2017 20:56:07

Highest Channel/ 1RB


Date: 17 JAN 2017 20:56:17

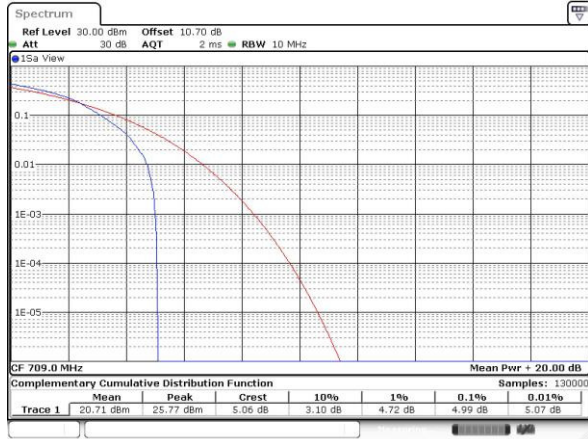
Highest Channel / Full RB


Date: 17 JAN 2017 20:56:26

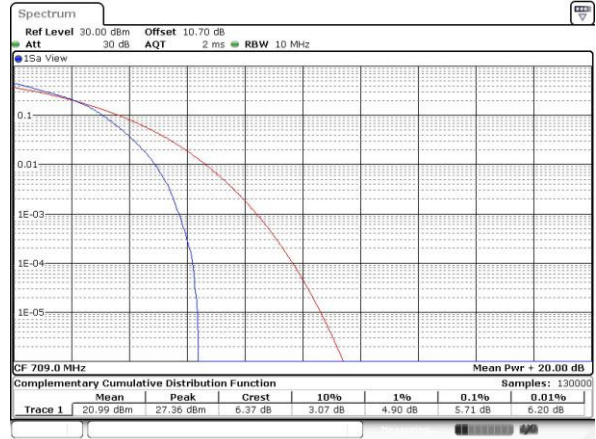


LTE Band 17 / 10MHz / 16QAM

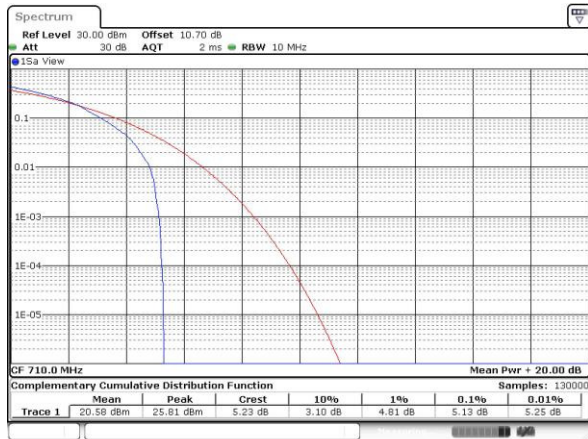
Lowest Channel / 1RB



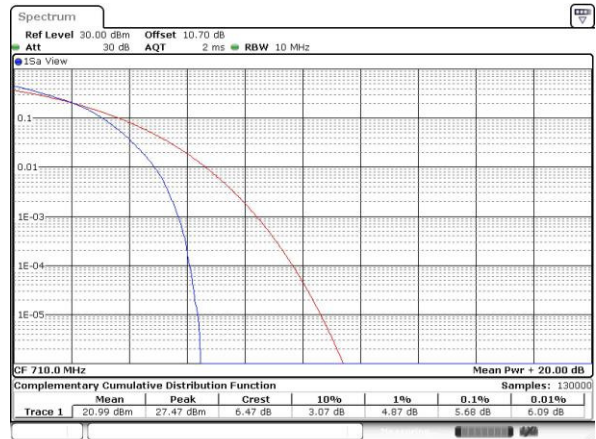
Lowest Channel / Full RB



Middle Channel/ 1RB



Middle Channel / Full RB



Highest Channel/ 1RB



Highest Channel / Full RB



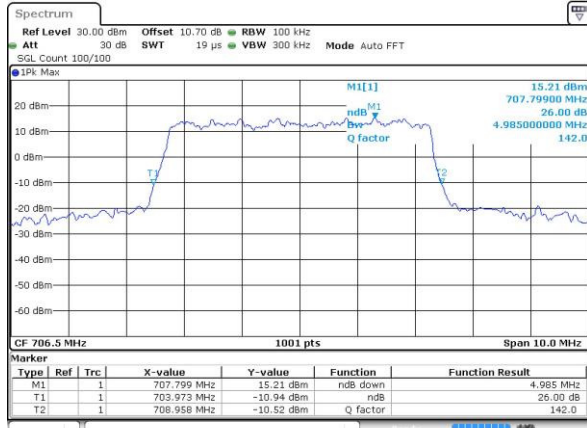
**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	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	-	-	-	-



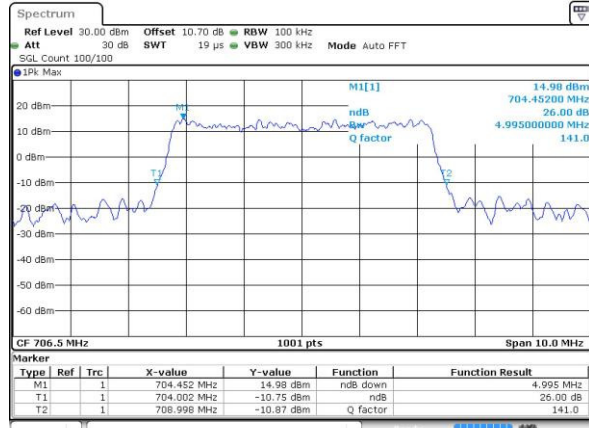
LTE Band 17

Lowest Channel / 5MHz / QPSK



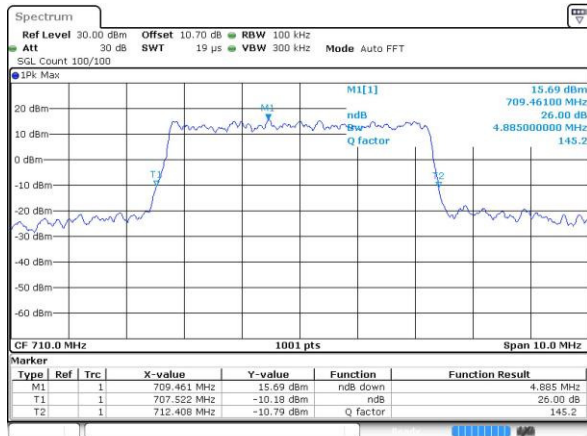
Date: 17 JAN 2017 20:02:26

Lowest Channel / 5MHz / 16QAM



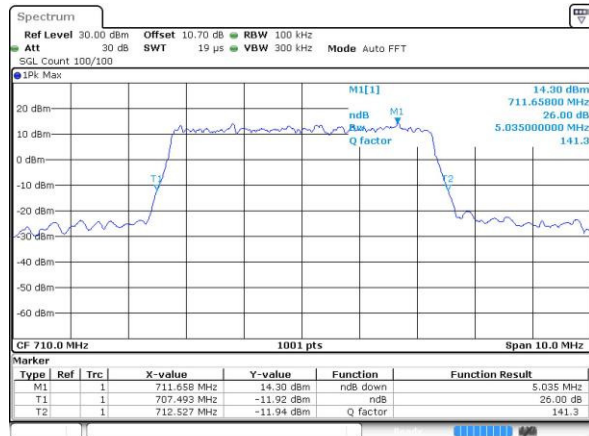
Date: 17 JAN 2017 20:02:36

Middle Channel / 5MHz / QPSK



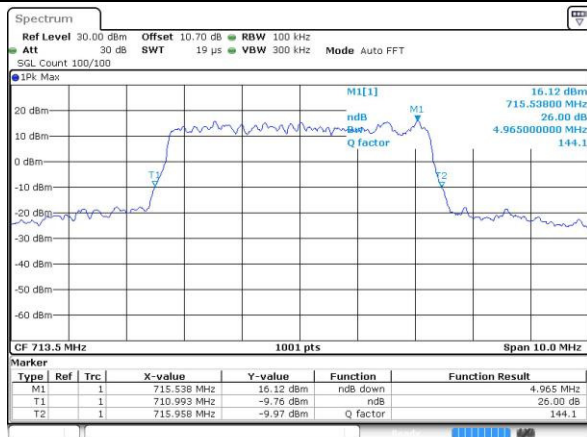
Date: 17 JAN 2017 20:09:32

Middle Channel / 5MHz / 16QAM



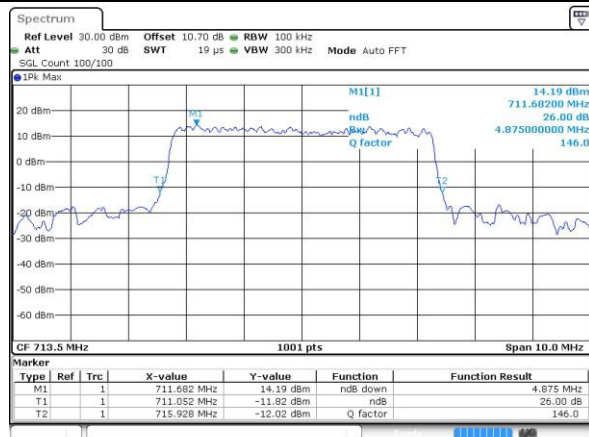
Date: 17 JAN 2017 20:09:43

Highest Channel / 5MHz / QPSK



Date: 17 JAN 2017 20:12:03

Highest Channel / 5MHz / 16QAM

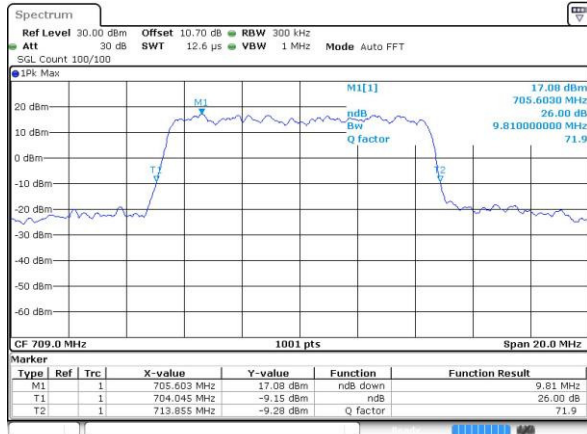


Date: 17 JAN 2017 20:12:13



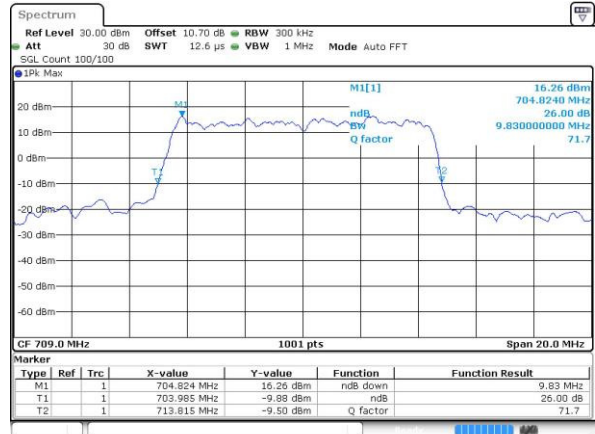
LTE Band 17

Lowest Channel / 10MHz / QPSK



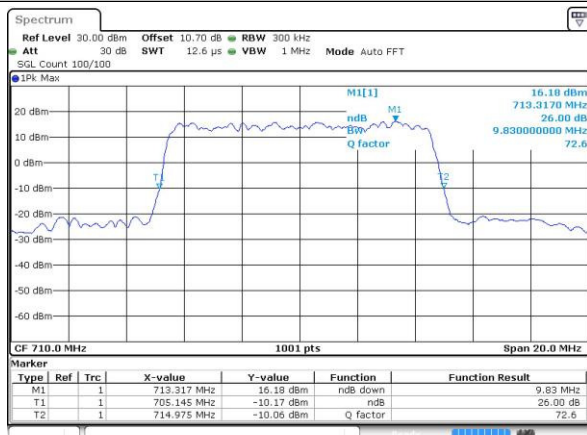
Date: 17 JAN 2017 20:19:09

Lowest Channel / 10MHz / 16QAM



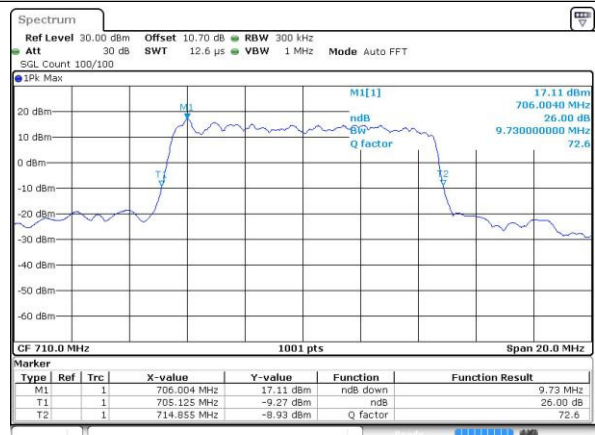
Date: 17 JAN 2017 20:19:20

Middle Channel / 10MHz / QPSK



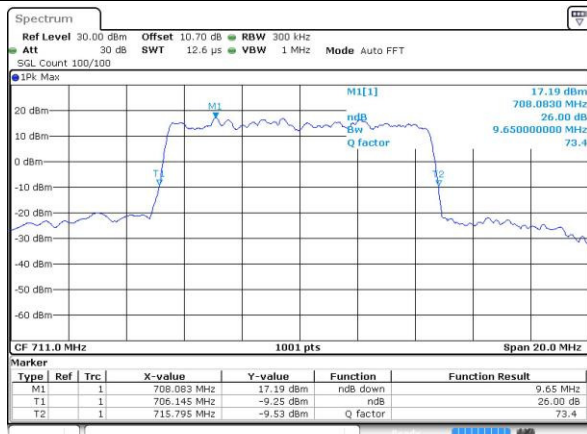
Date: 17 JAN 2017 20:26:16

Middle Channel / 10MHz / 16QAM



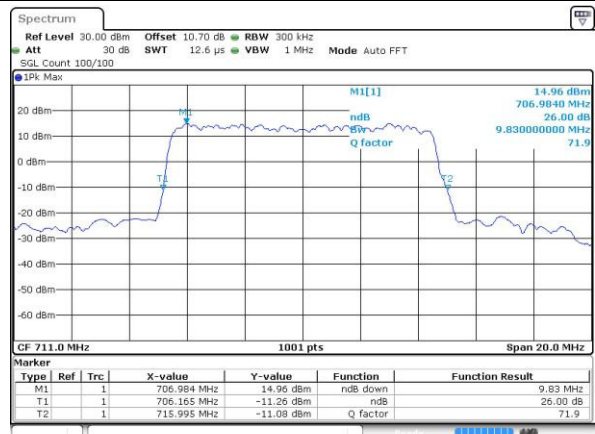
Date: 17 JAN 2017 20:26:26

Highest Channel / 10MHz / QPSK



Date: 17 JAN 2017 20:28:46

Highest Channel / 10MHz / 16QAM



Date: 17 JAN 2017 20:28:56

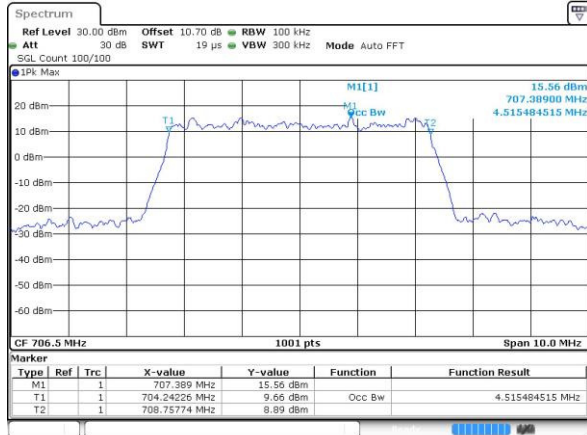
**Occupied Bandwidth**

Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
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	-	-	-	-



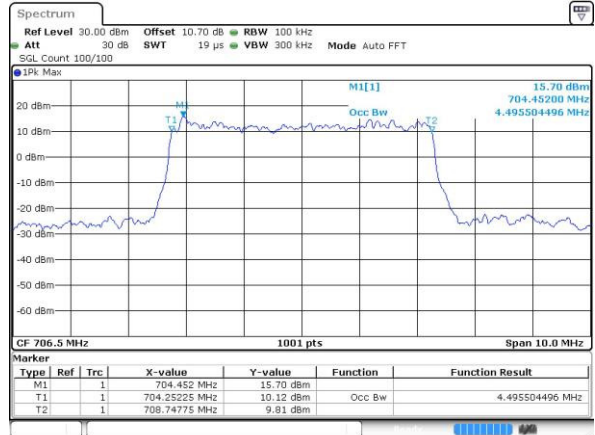
LTE Band 17

Lowest Channel / 5MHz / QPSK



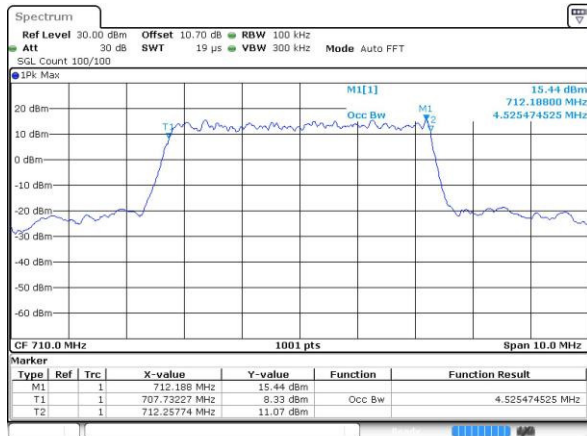
Date: 17 JAN 2017 20:02:05

Lowest Channel / 5MHz / 16QAM



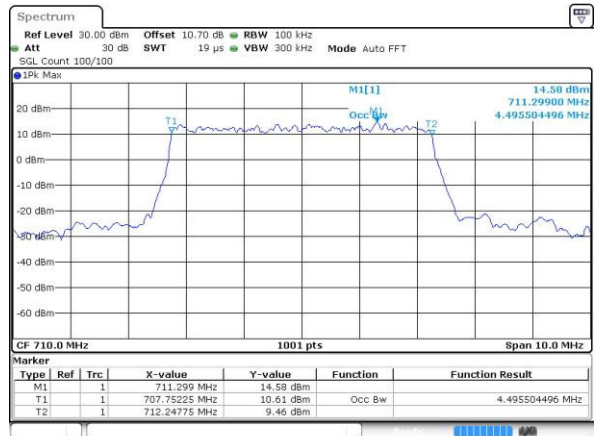
Date: 17 JAN 2017 20:02:16

Middle Channel / 5MHz / QPSK



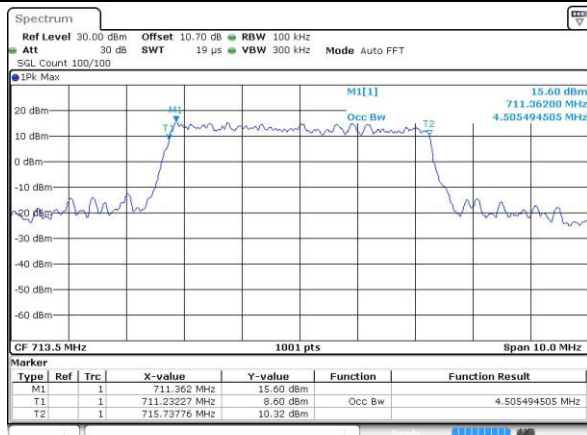
Date: 17 JAN 2017 20:09:12

Middle Channel / 5MHz / 16QAM



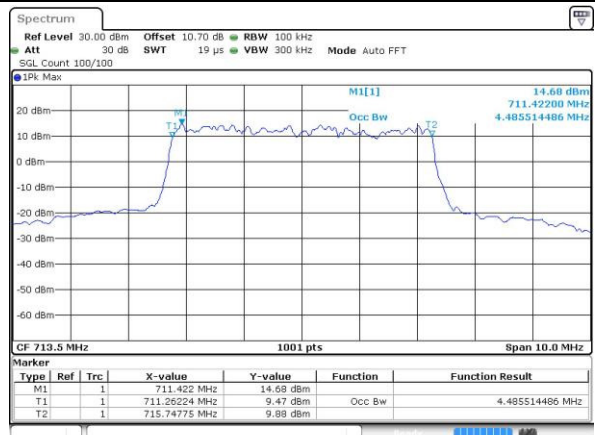
Date: 17 JAN 2017 20:09:22

Highest Channel / 5MHz / QPSK



Date: 17 JAN 2017 20:11:42

Highest Channel / 5MHz / 16QAM

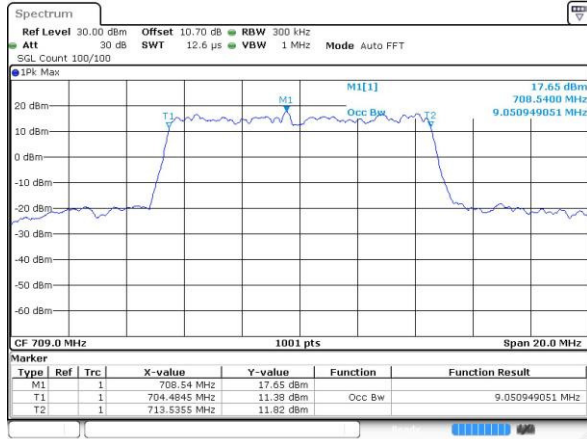


Date: 17 JAN 2017 20:11:52

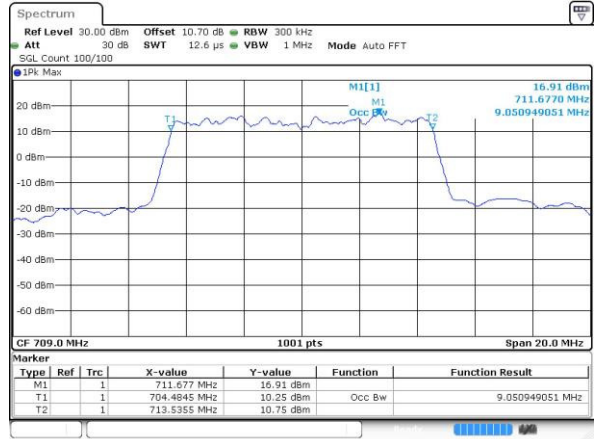


LTE Band 17

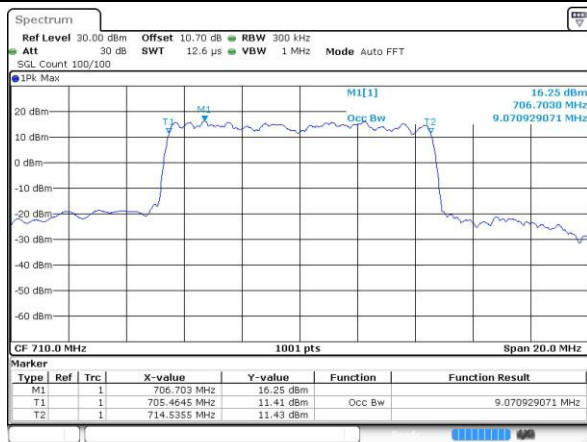
Lowest Channel / 10MHz / QPSK



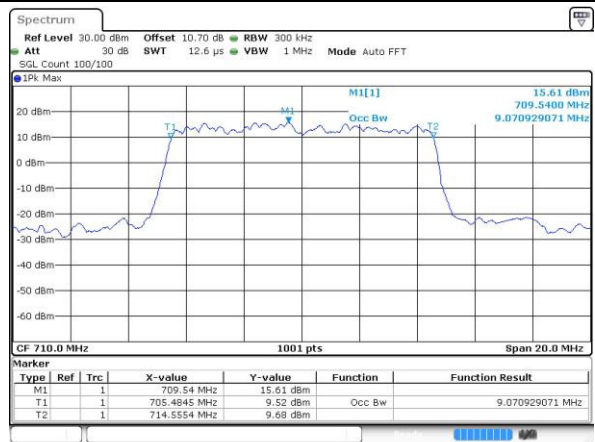
Lowest Channel / 10MHz / 16QAM



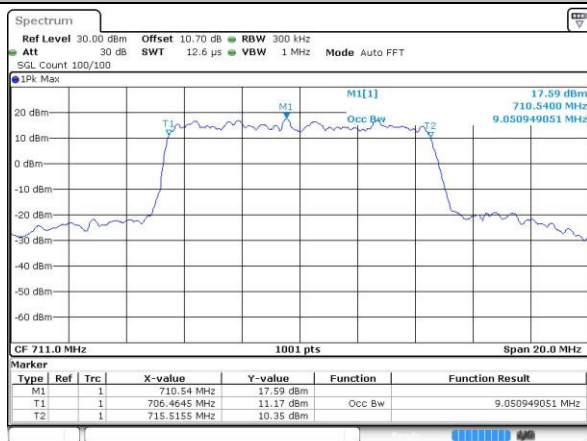
Middle Channel / 10MHz / QPSK



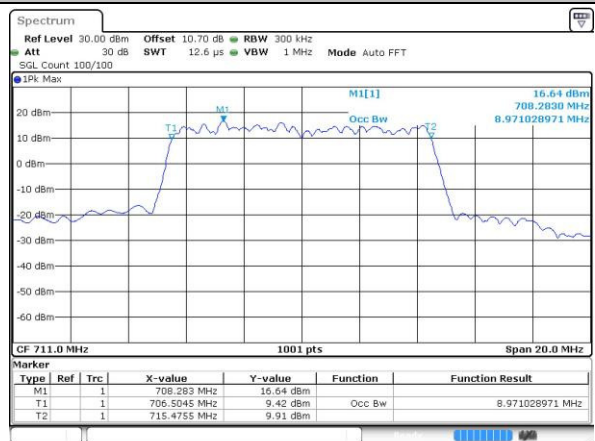
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

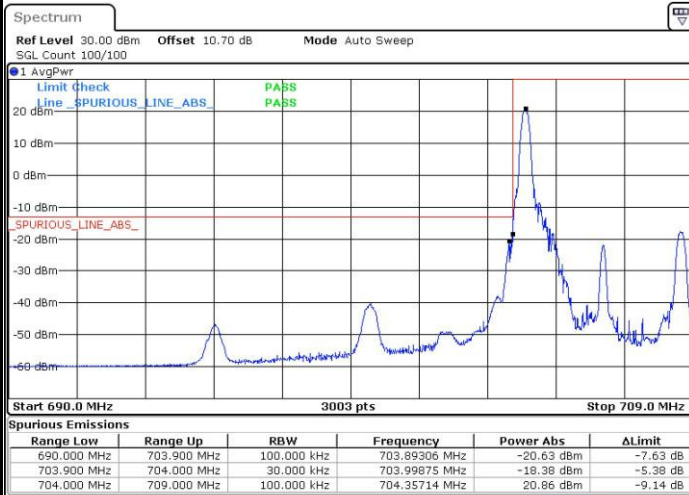




Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



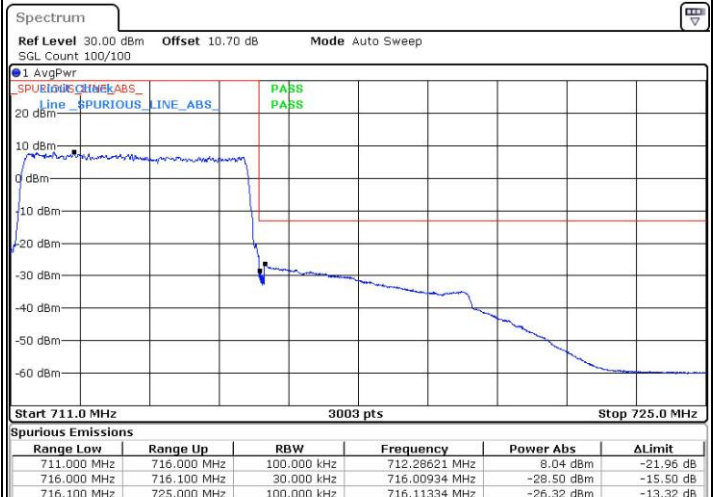
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



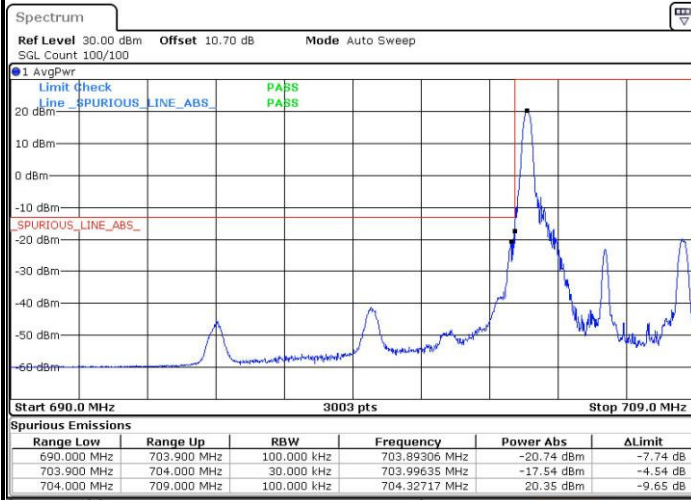
Highest Band Edge / Full RB





LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



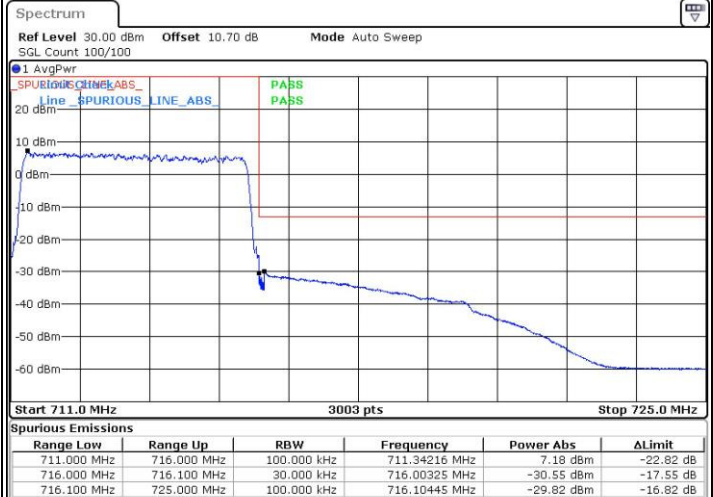
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



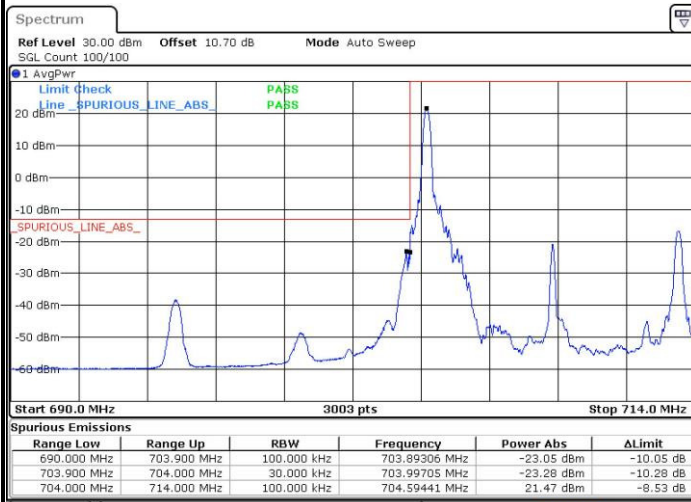
Highest Band Edge / Full RB



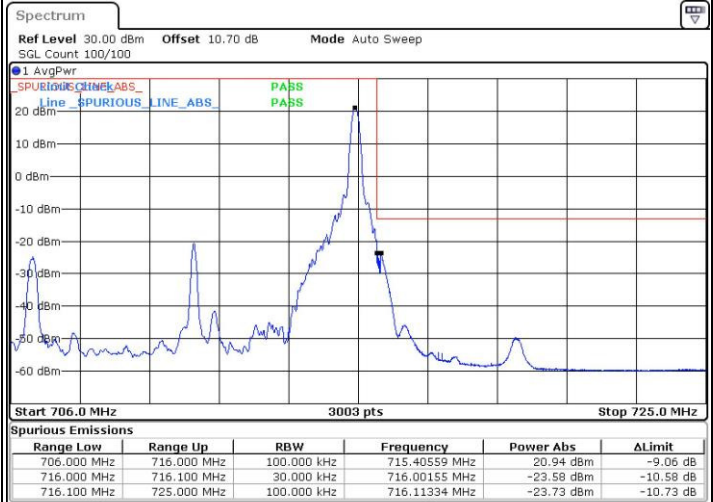


LTE Band 17 / 10MHz / QPSK

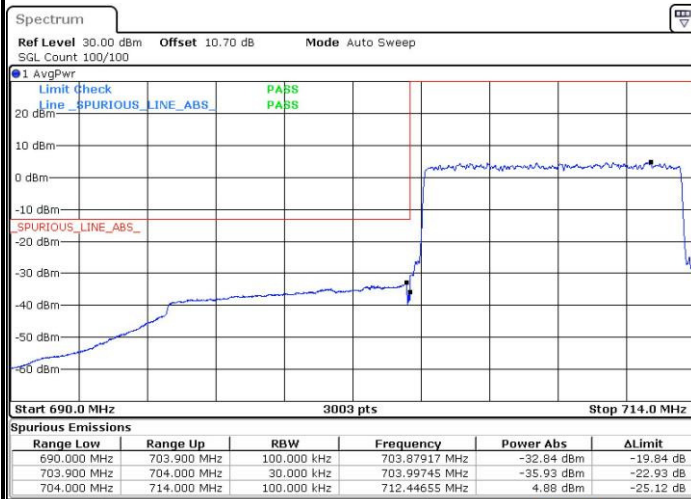
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



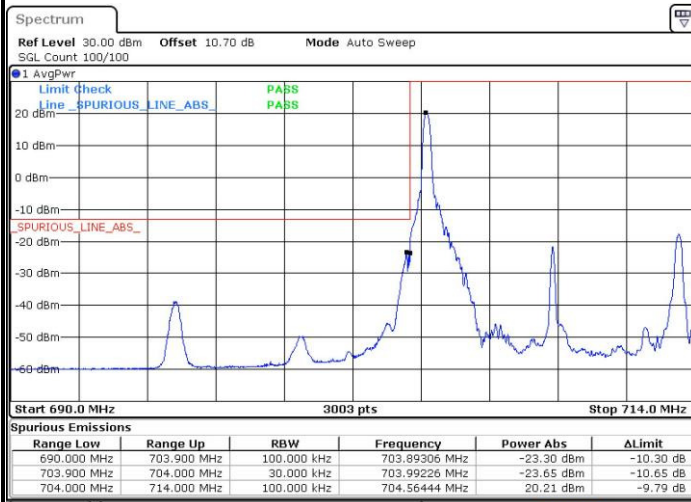
Highest Band Edge / Full RB



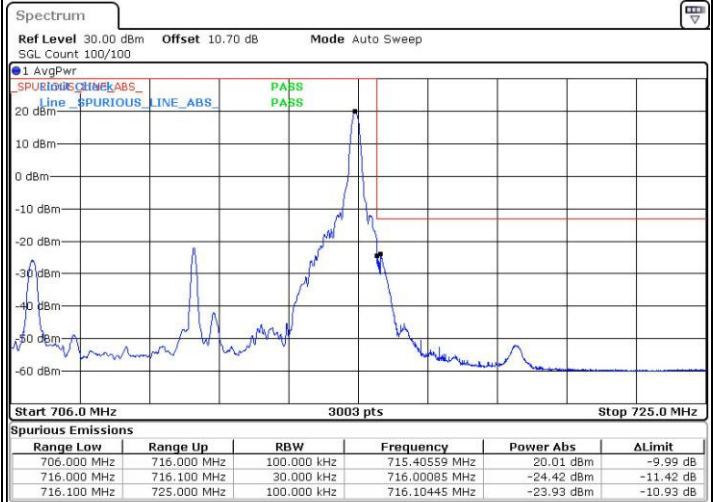


LTE Band 17 / 10MHz / 16QAM

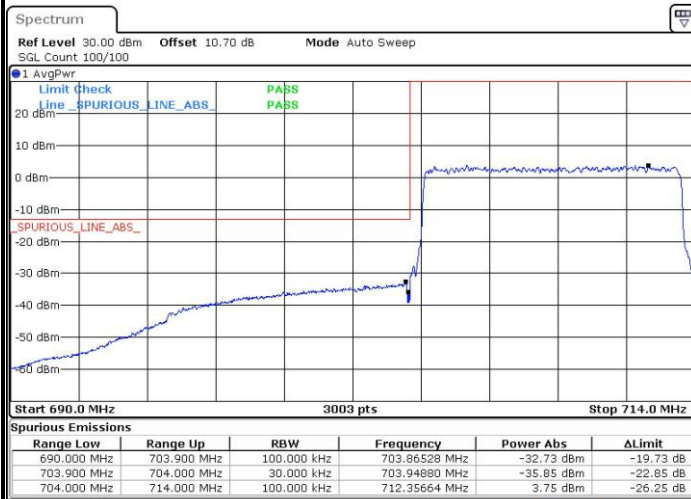
Lowest Band Edge / 1 RB



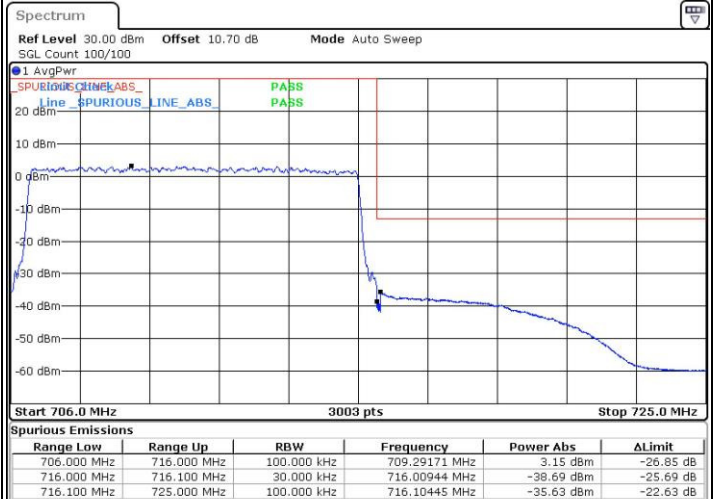
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

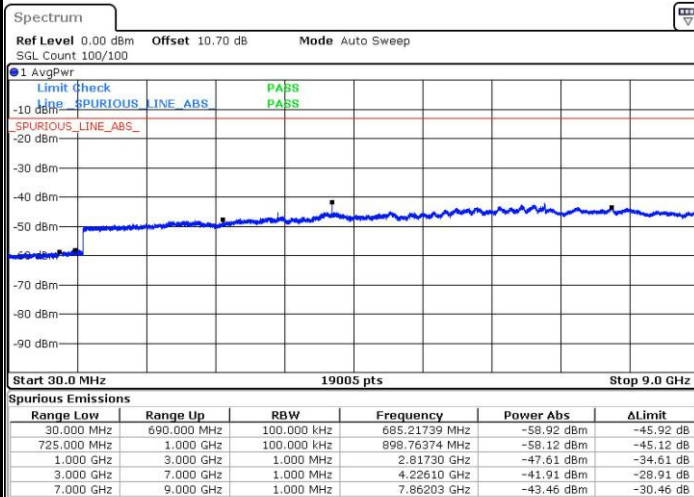




Conducted Spurious Emission

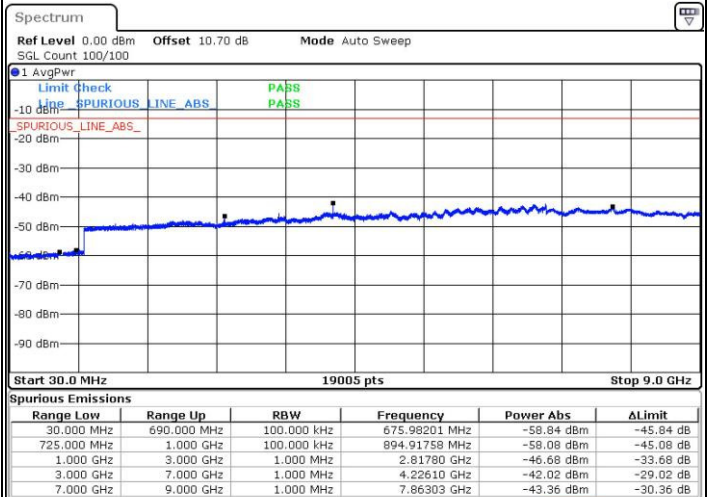
LTE Band 17 / 5MHz

Lowest Channel / QPSK



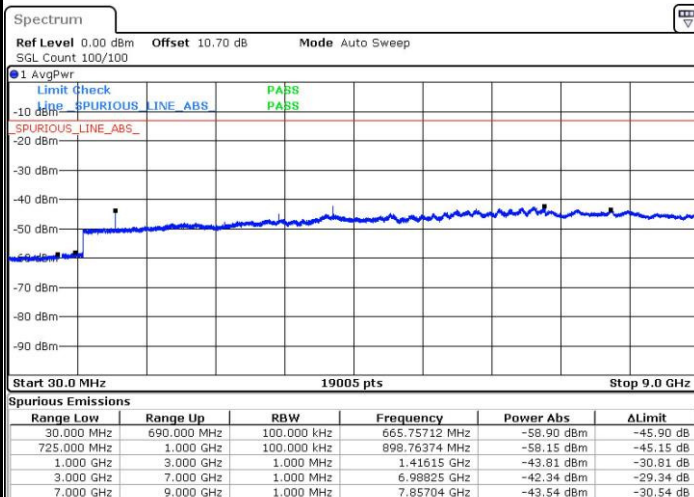
Date: 17.JAN.2017 20:08:07

Lowest Channel / 16QAM



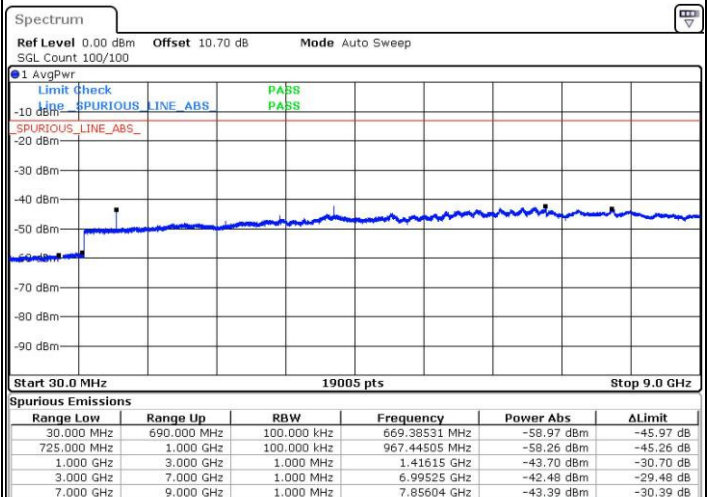
Date: 17.JAN.2017 20:09:02

Middle Channel / QPSK



Date: 17.JAN.2017 20:10:37

Middle Channel / 16QAM



Date: 17.JAN.2017 20:11:32