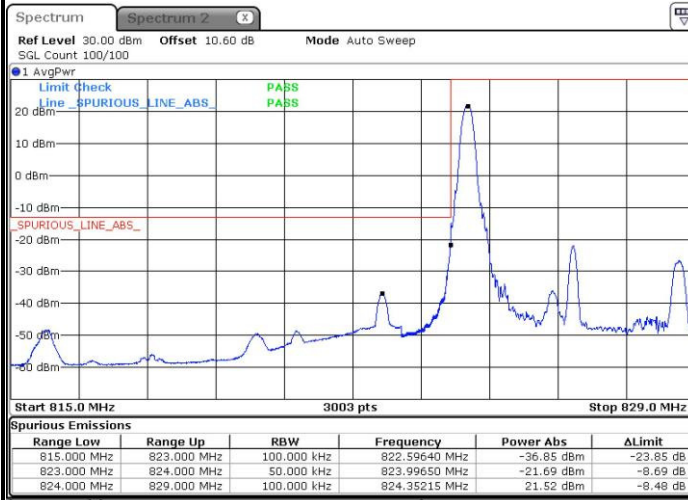


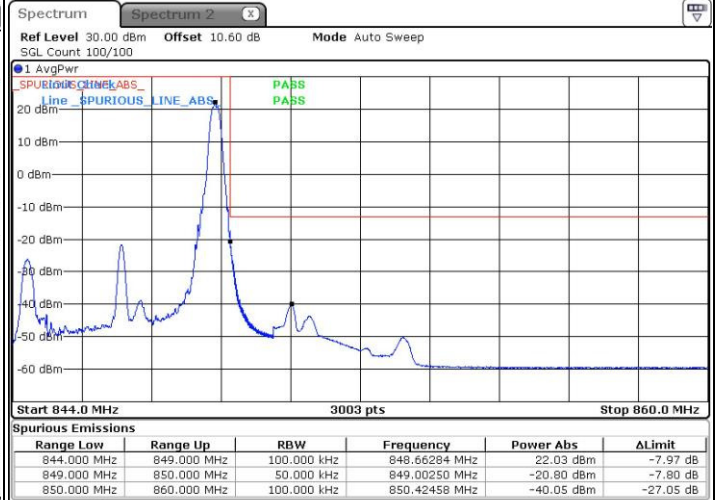


LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



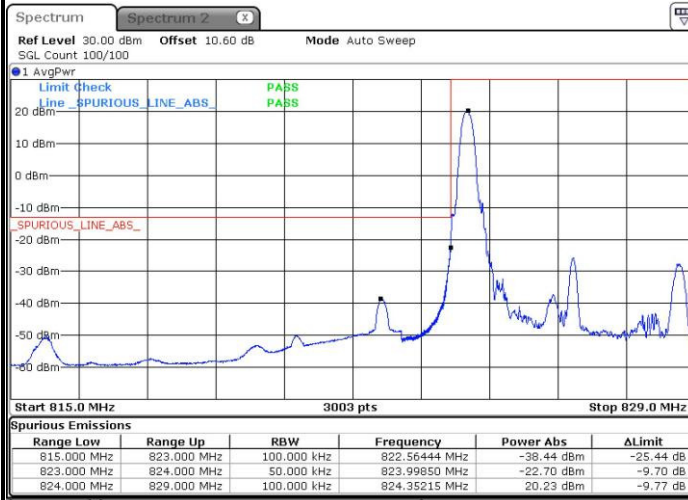
Highest Band Edge / Full RB



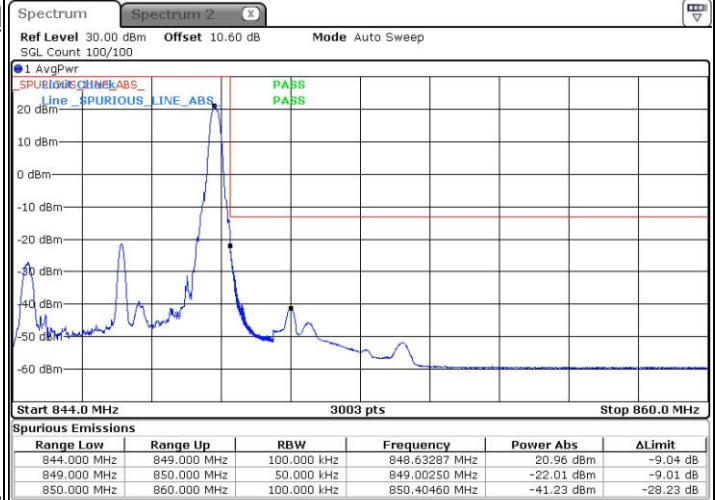


LTE Band 5 / 5MHz / 16QAM

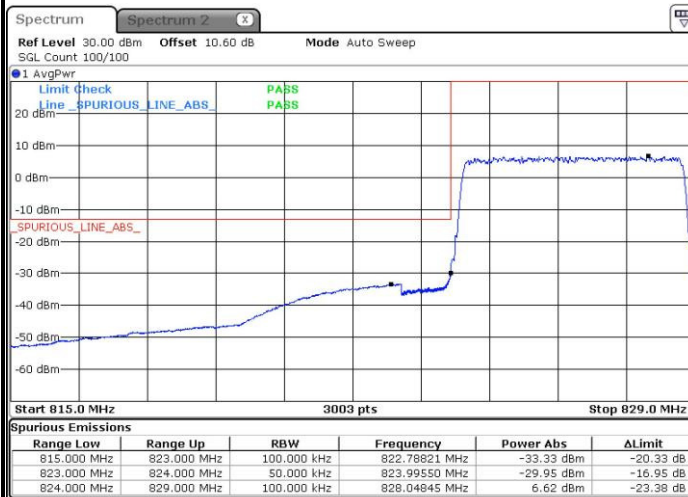
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



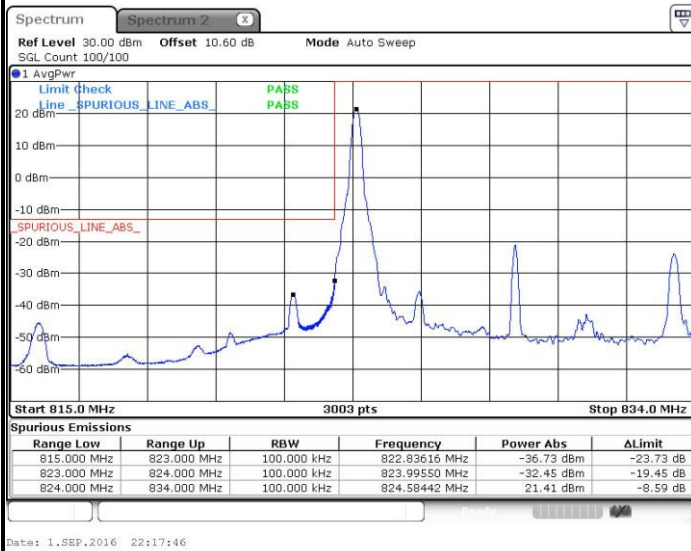
Highest Band Edge / Full RB



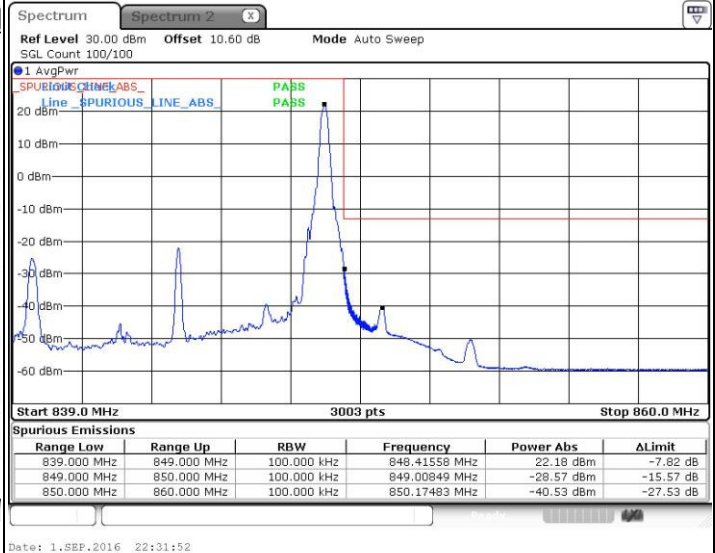


LTE Band 5 / 10MHz / QPSK

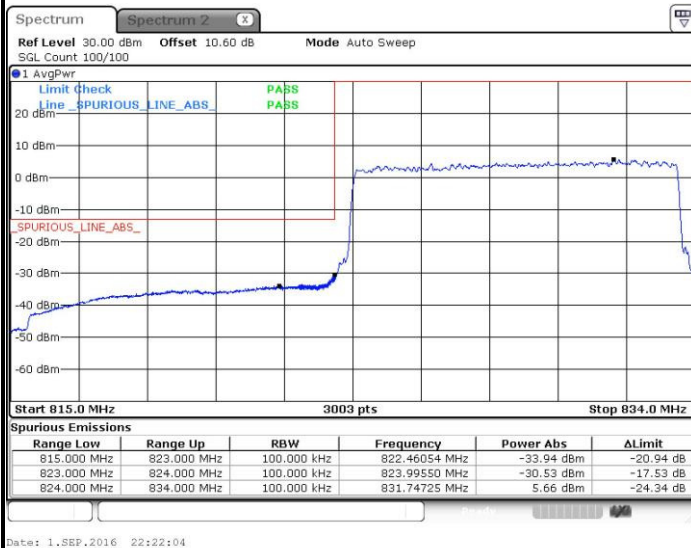
Lowest Band Edge / 1 RB



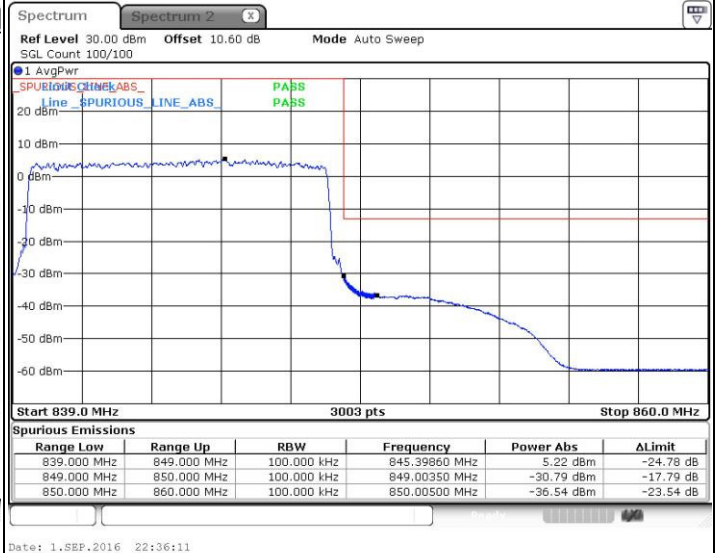
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



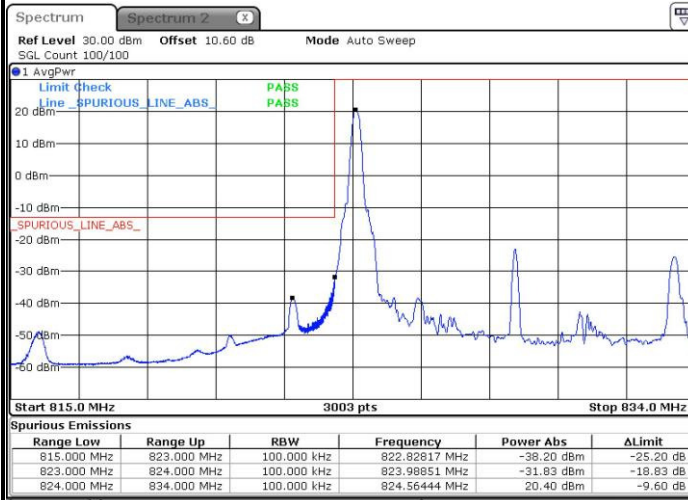
Highest Band Edge / Full RB



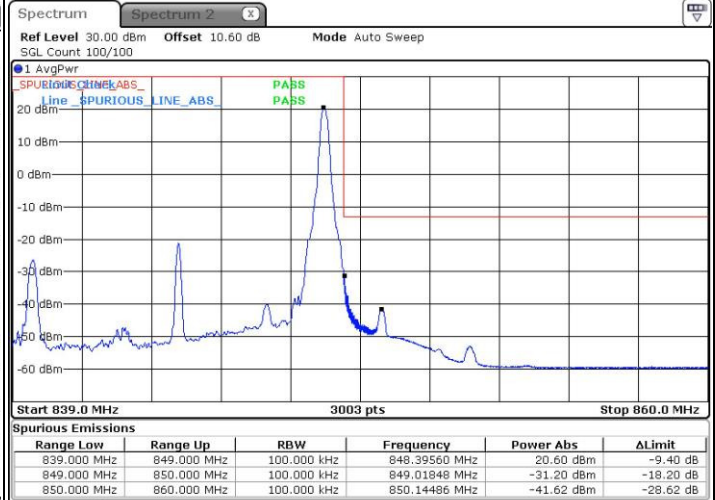


LTE Band 5 / 10MHz / 16QAM

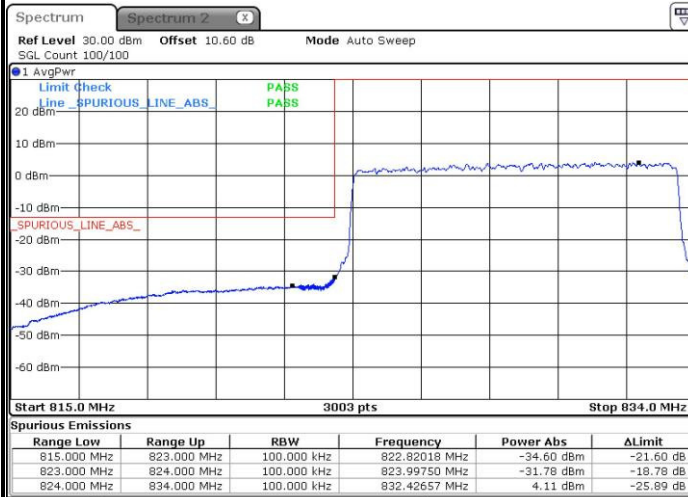
Lowest Band Edge / 1 RB



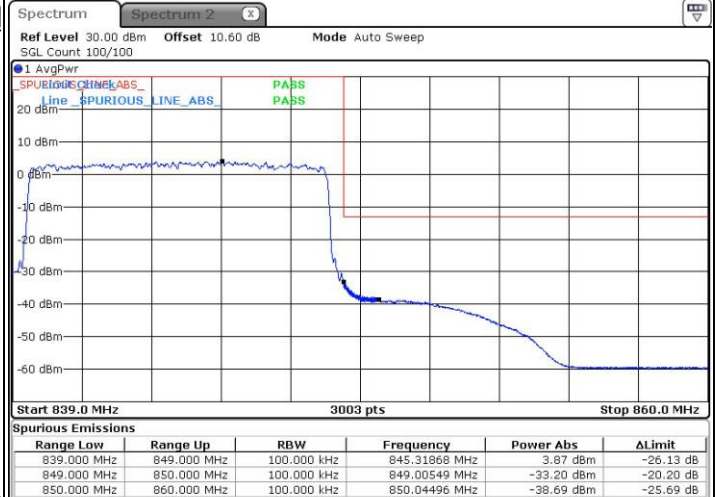
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



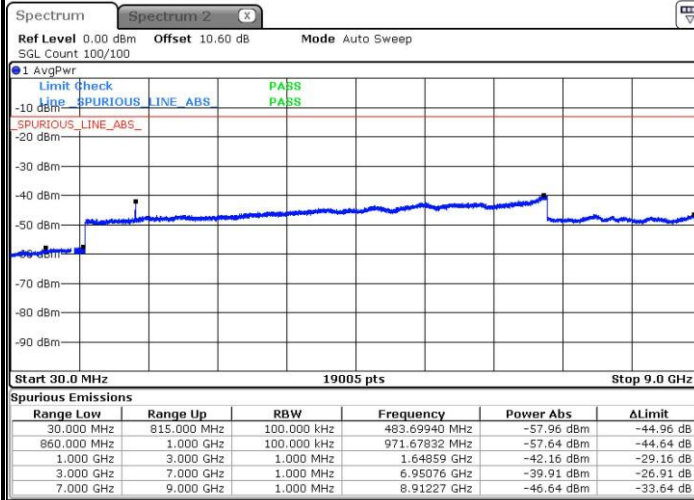


Conducted Spurious Emission



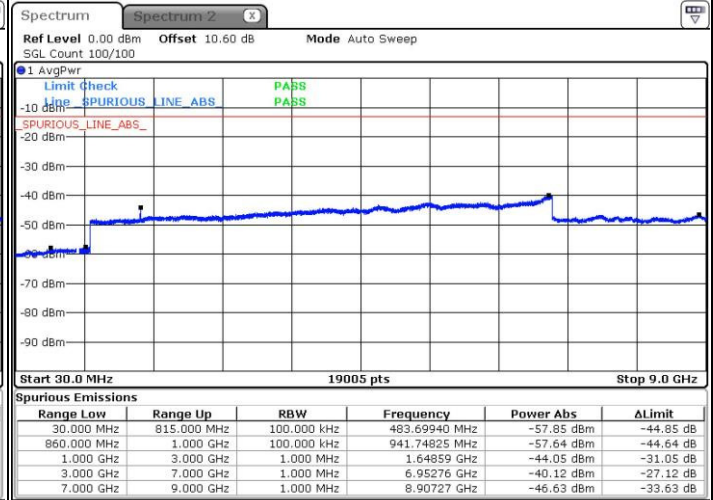
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



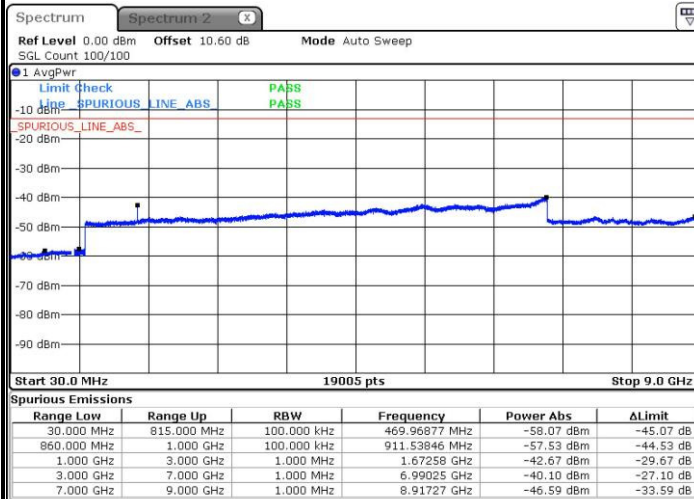
Date: 1.SEP.2016 22:51:40

Lowest Channel / 16QAM



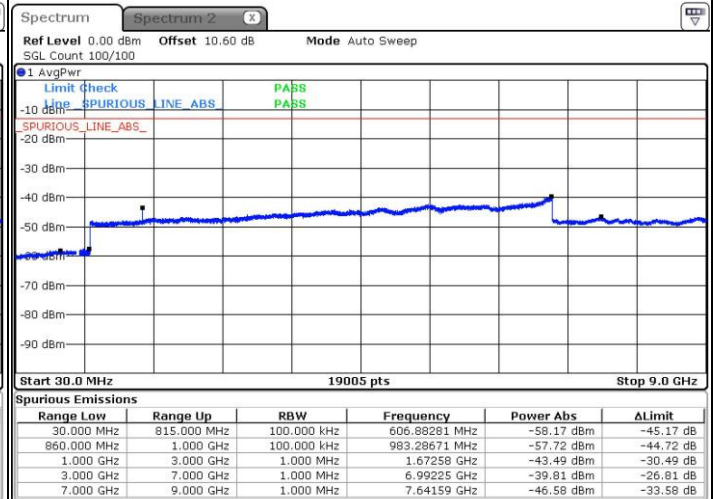
Date: 1.SEP.2016 22:52:38

Middle Channel / QPSK



Date: 1.SEP.2016 22:54:24

Middle Channel / 16QAM

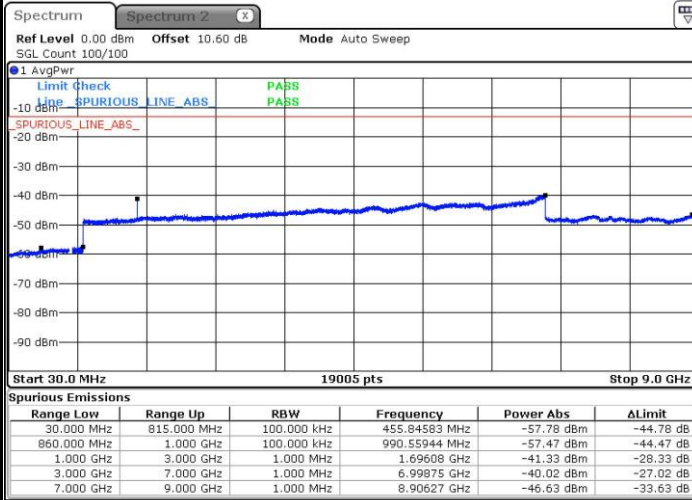


Date: 1.SEP.2016 22:55:22



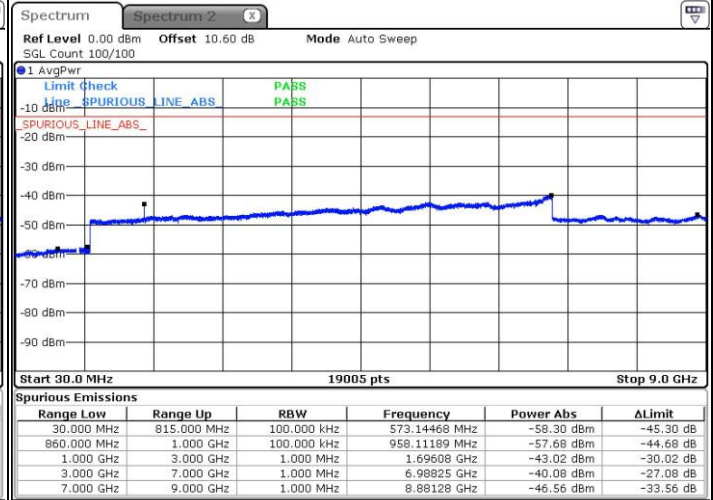
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 1.SEP.2016 23:05:46

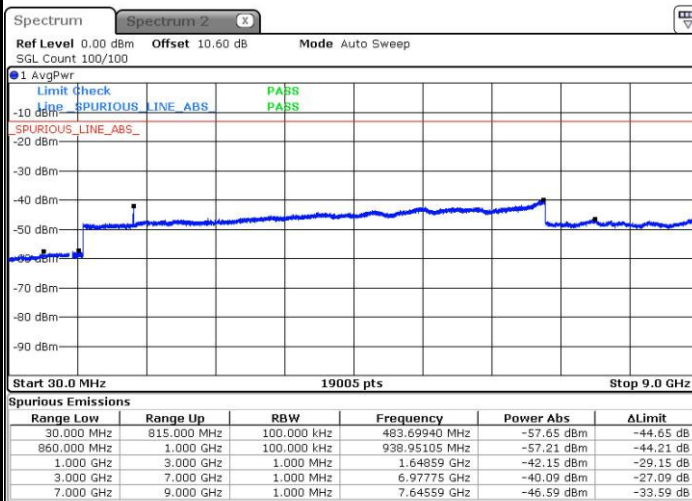
Highest Channel / 16QAM



Date: 1.SEP.2016 23:06:44

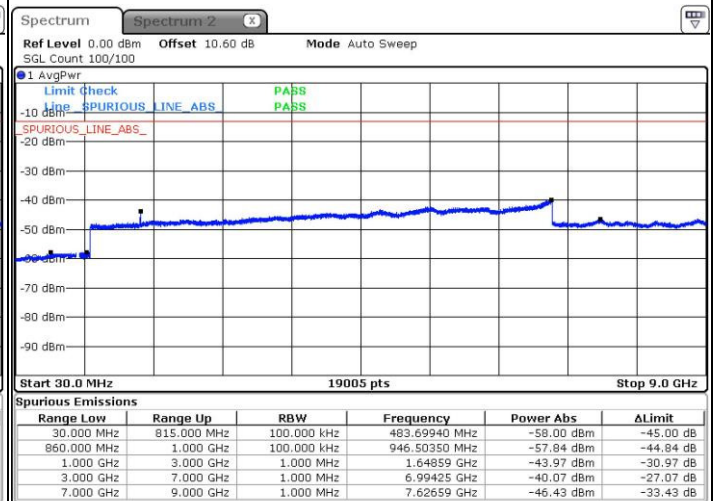
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 1.SEP.2016 21:34:15

Lowest Channel / 16QAM

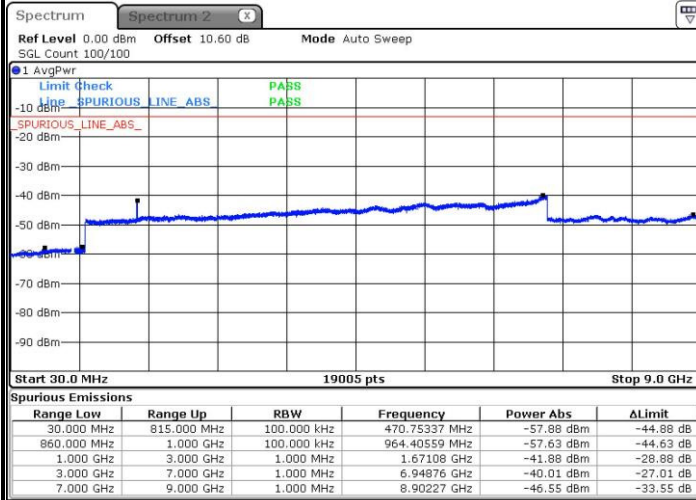


Date: 1.SEP.2016 21:35:14



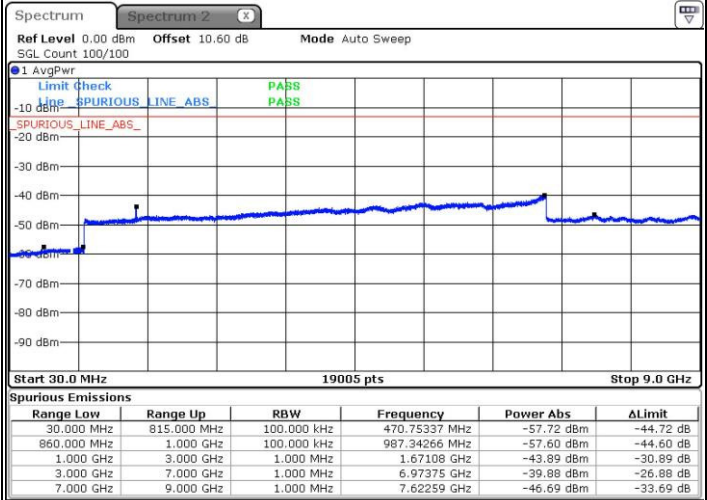
LTE Band 5 / 3MHz

Middle Channel / QPSK



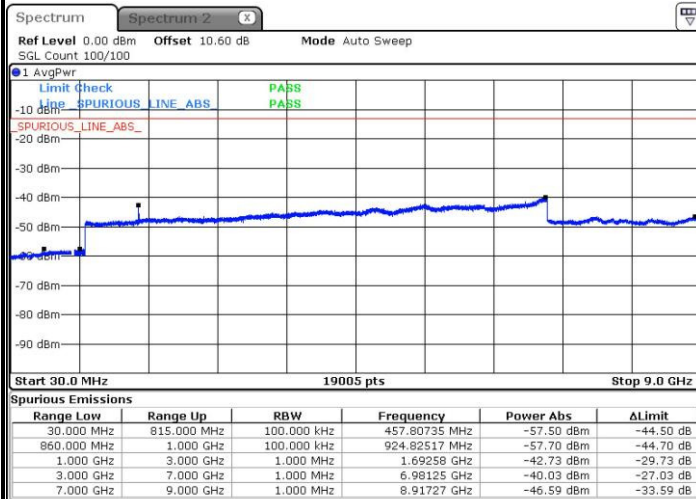
Date: 1.SEP.2016 21:36:59

Middle Channel / 16QAM



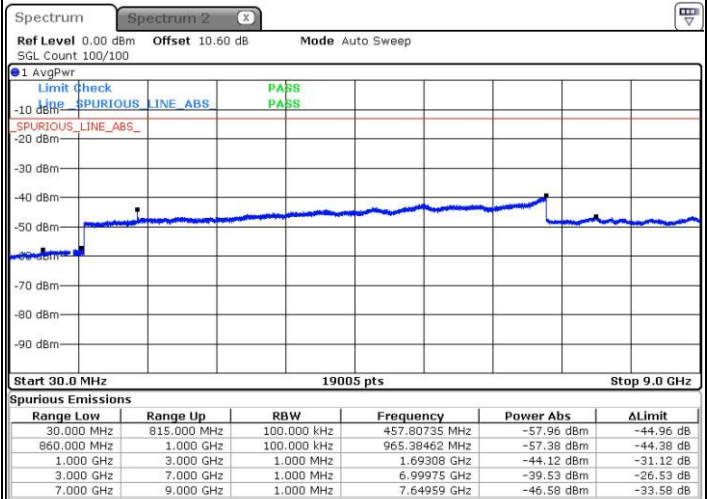
Date: 1.SEP.2016 21:37:58

Highest Channel / QPSK



Date: 1.SEP.2016 21:48:21

Highest Channel / 16QAM

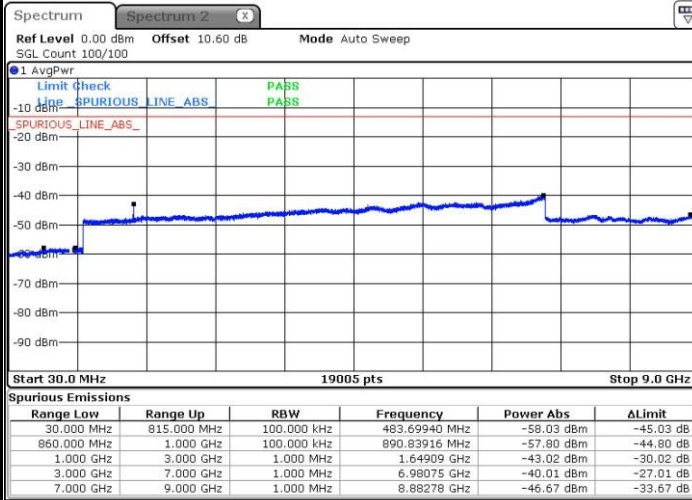


Date: 1.SEP.2016 21:49:20



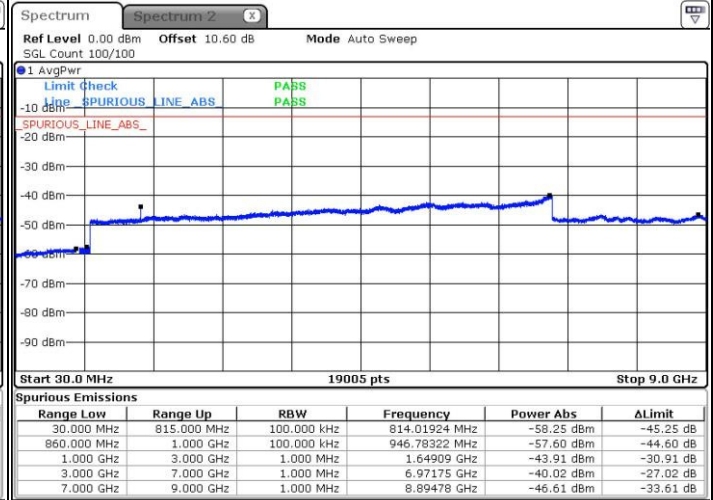
LTE Band 5 / 5MHz

Lowest Channel / QPSK



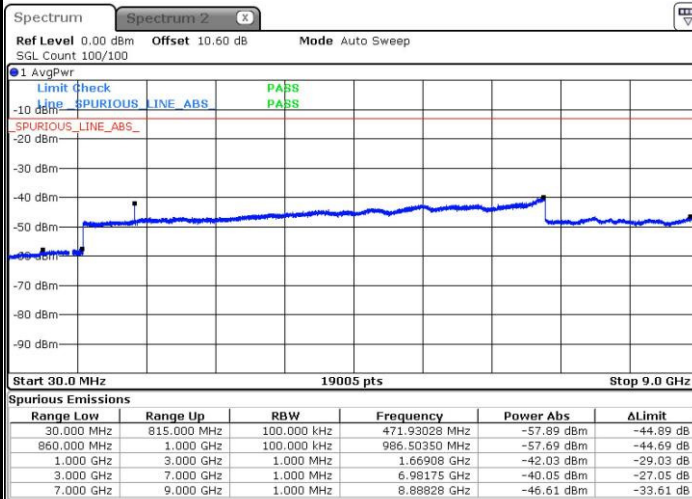
Date: 1.SEP.2016 21:59:43

Lowest Channel / 16QAM



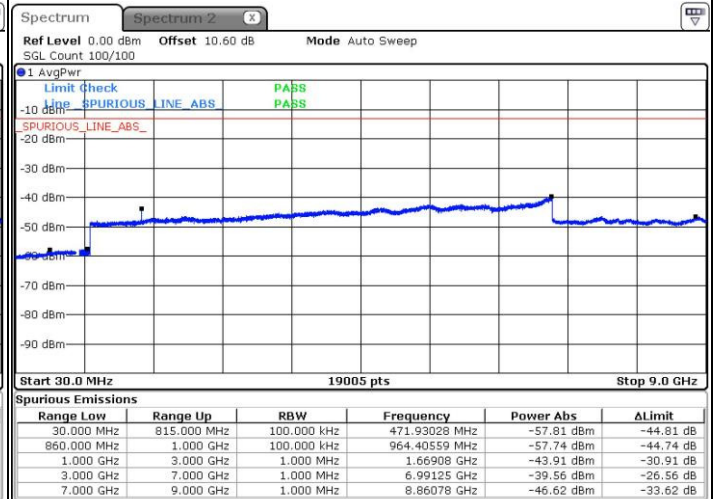
Date: 1.SEP.2016 22:00:42

Middle Channel / QPSK



Date: 1.SEP.2016 22:02:28

Middle Channel / 16QAM

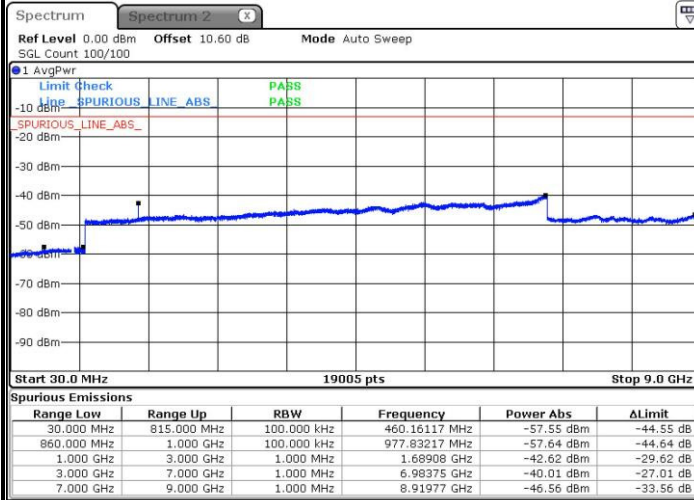


Date: 1.SEP.2016 22:03:26



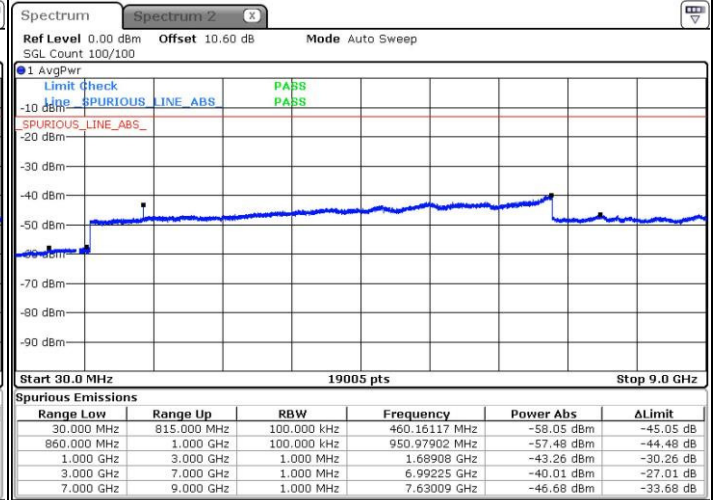
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 1.SEP.2016 22:13:50

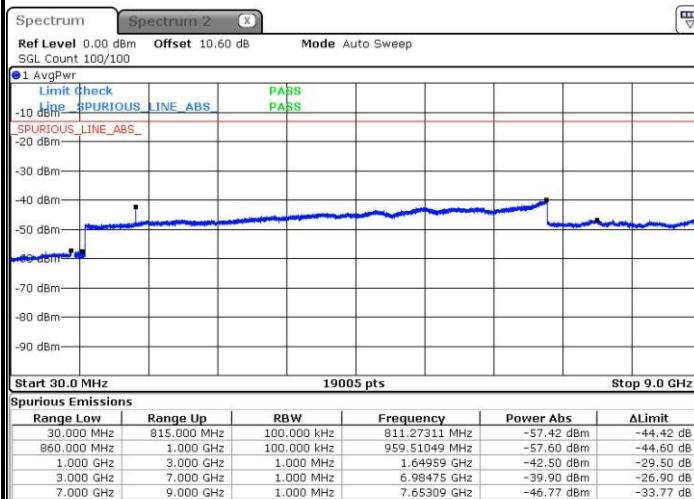
Highest Channel / 16QAM



Date: 1.SEP.2016 22:14:48

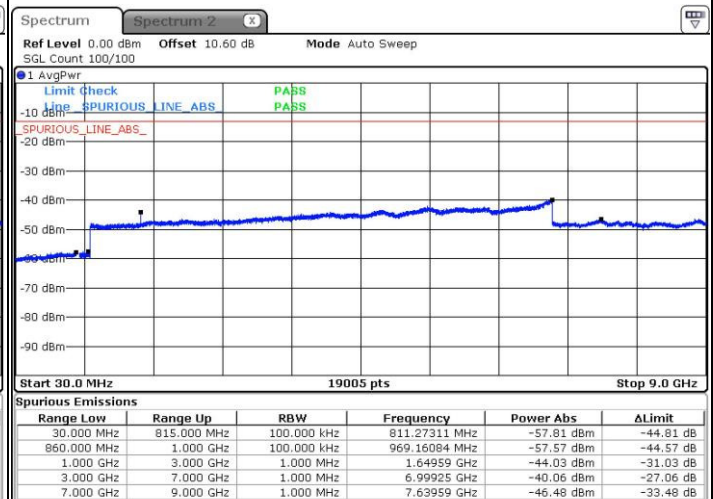
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 1.SEP.2016 22:25:12

Lowest Channel / 16QAM

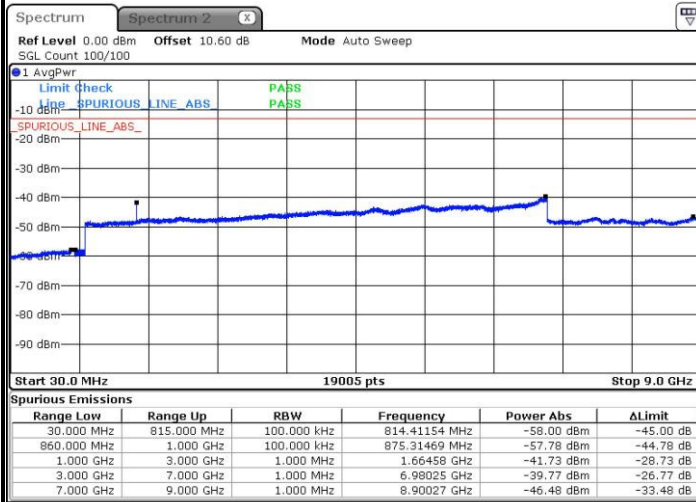


Date: 1.SEP.2016 22:26:10



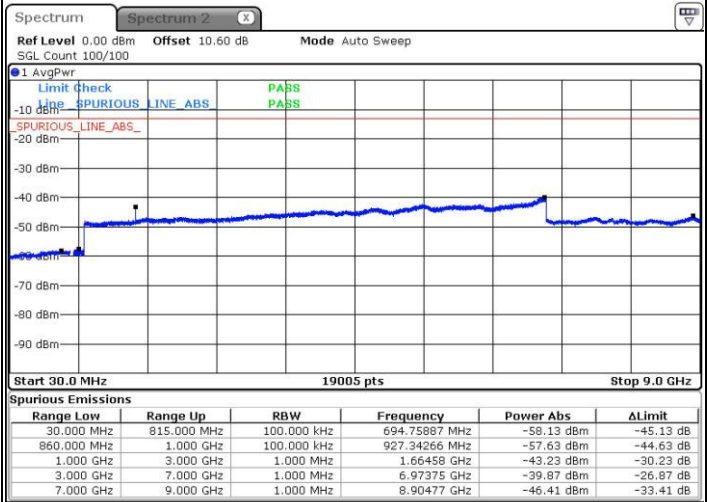
LTE Band 5 / 10MHz

Middle Channel / QPSK



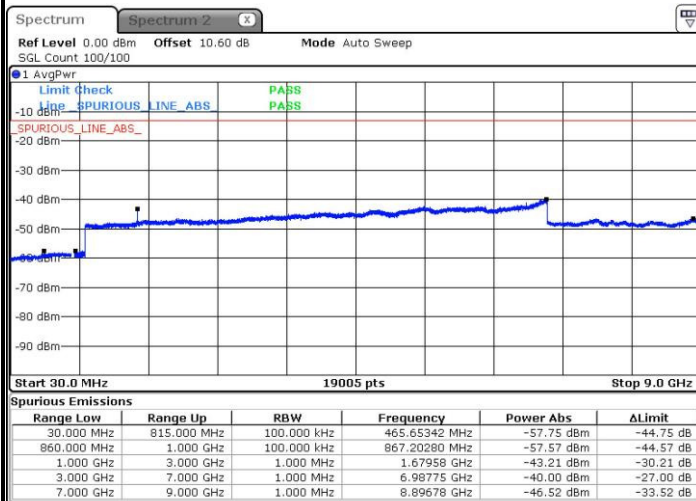
Date: 1.SEP.2016 22:27:56

Middle Channel / 16QAM



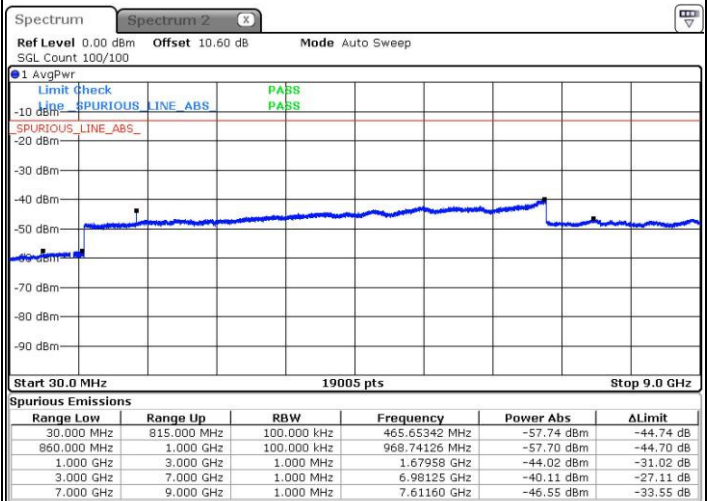
Date: 1.SEP.2016 22:28:54

Highest Channel / QPSK



Date: 1.SEP.2016 22:39:18

Highest Channel / 16QAM



Date: 1.SEP.2016 22:40:16

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0080	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0092	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0091	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0105	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0102	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.71	4.64	5.22	5.54	PASS
Middle CH	3.71	4.81	4.52	5.77	
Highest CH	4.06	4.72	4.93	5.68	

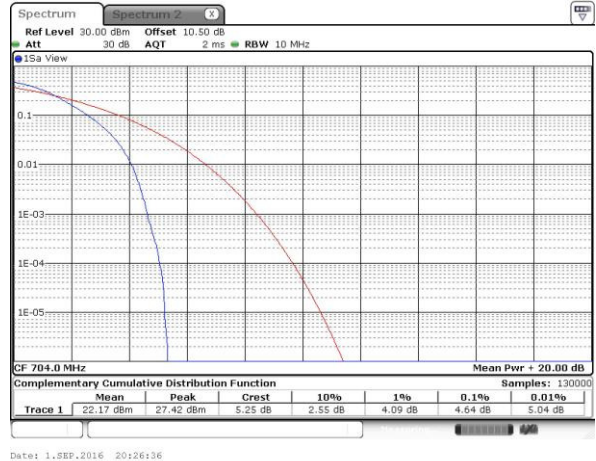


LTE Band 12 / 10MHz / QPSK

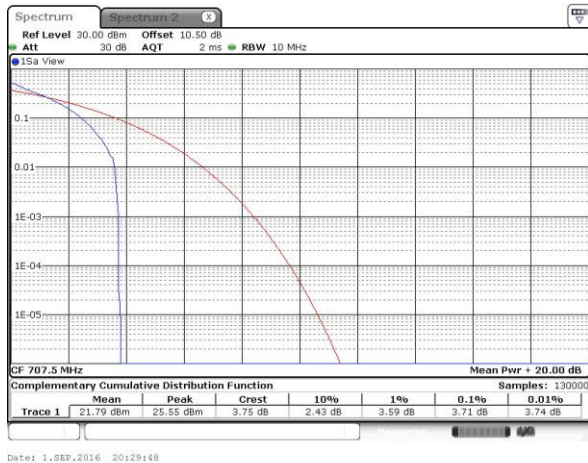
Lowest Channel / 1RB



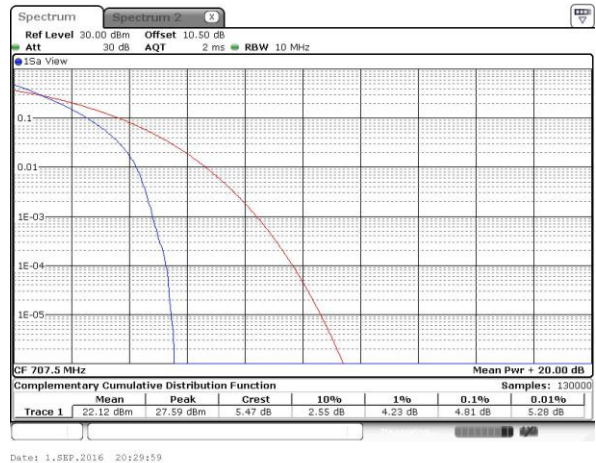
Lowest Channel / Full RB



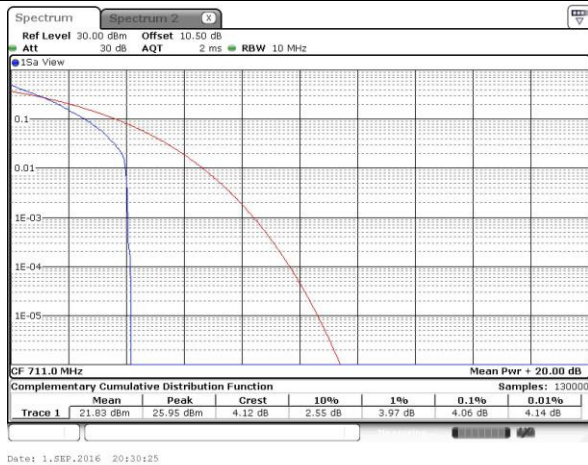
Middle Channel / 1RB



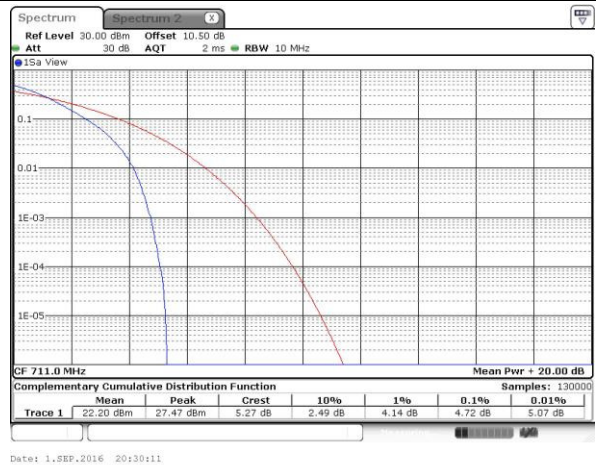
Middle Channel / Full RB



Highest Channel / 1RB

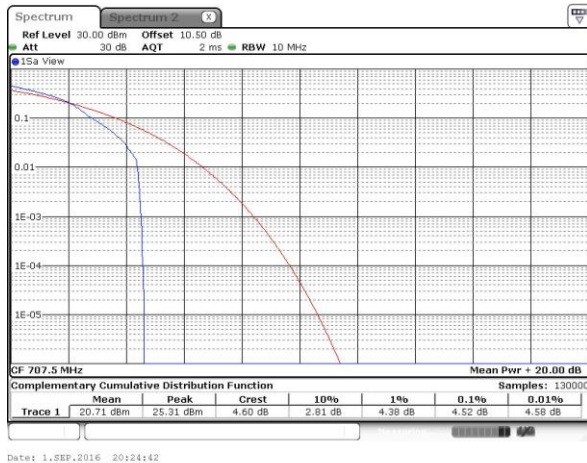
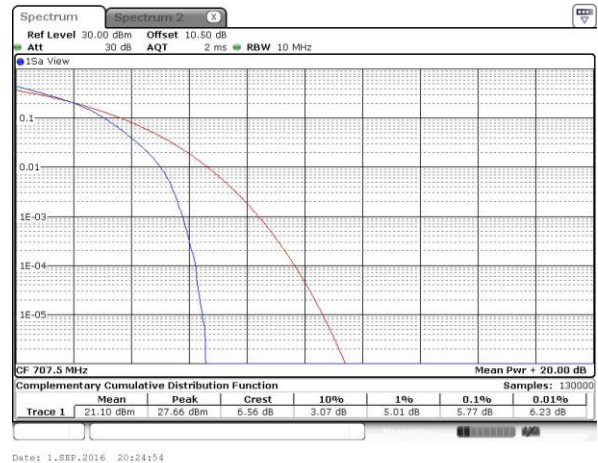


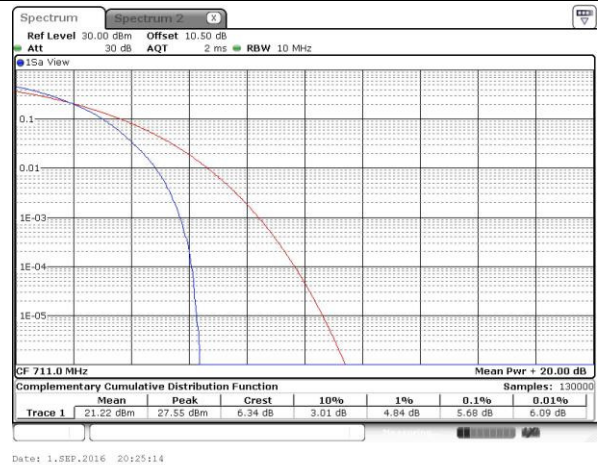
Highest Channel / Full RB



LTE Band 12 / 10MHz / 16QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


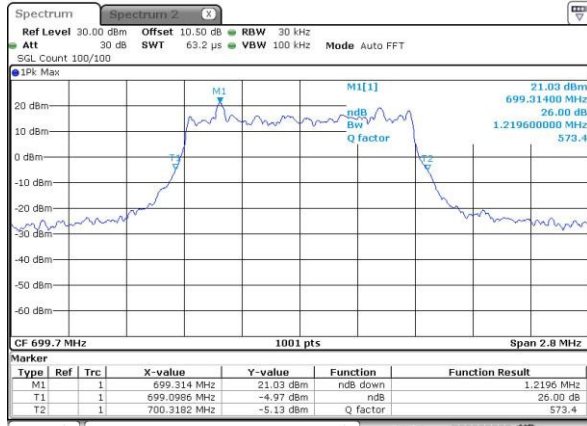
**26dB Bandwidth**

Mode	LTE Band 12 : 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	1.22	1.236	3.009	2.985	4.925	4.885	9.69	9.63	-	-	-	-
Middle CH	1.256	1.276	3.021	2.979	4.895	4.885	9.65	9.77	-	-	-	-
Highest CH	1.295	1.287	2.991	3.039	4.905	4.905	9.85	9.59	-	-	-	-



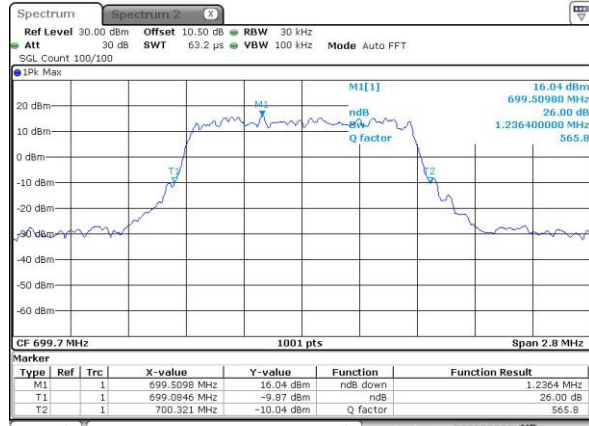
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



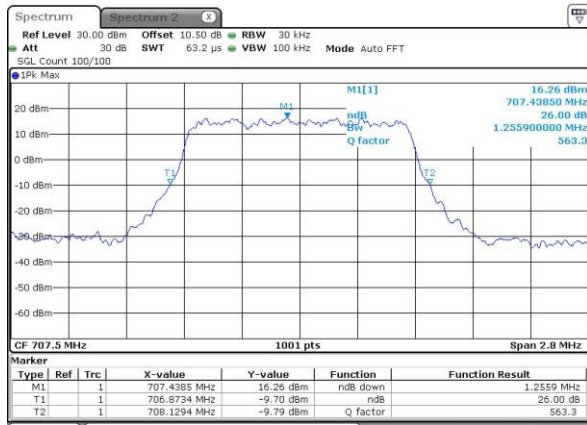
Date: 1.SEP.2016 20:05:50

Lowest Channel / 1.4MHz / 16QAM



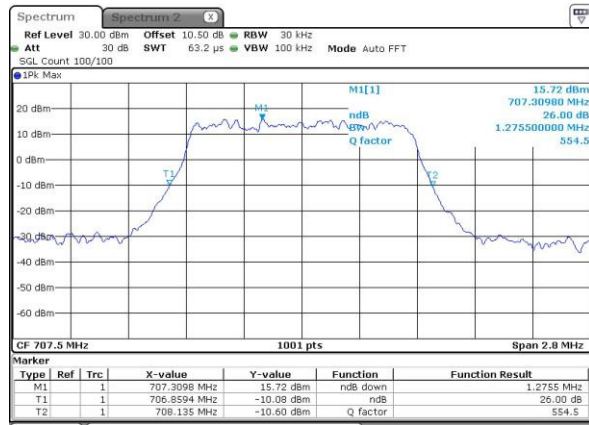
Date: 1.SEP.2016 20:05:38

Middle Channel / 1.4MHz / QPSK



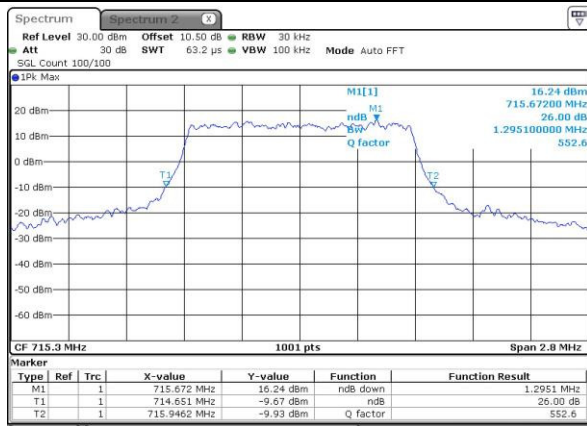
Date: 1.SEP.2016 20:13:00

Middle Channel / 1.4MHz / 16QAM



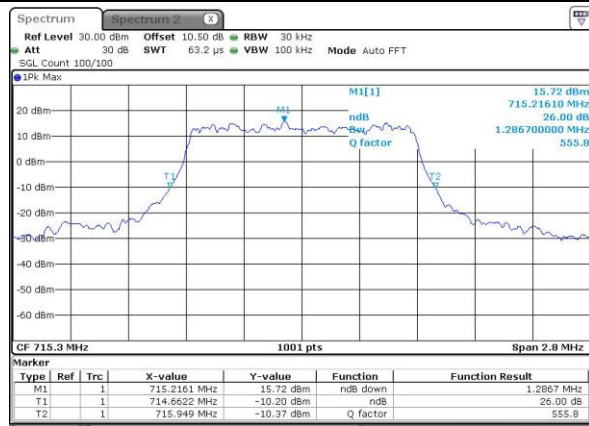
Date: 1.SEP.2016 20:13:12

Highest Channel / 1.4MHz / QPSK



Date: 1.SEP.2016 20:15:57

Highest Channel / 1.4MHz / 16QAM

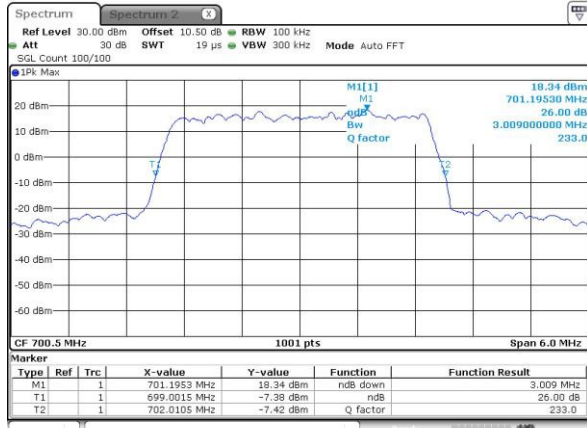


Date: 1.SEP.2016 20:15:45

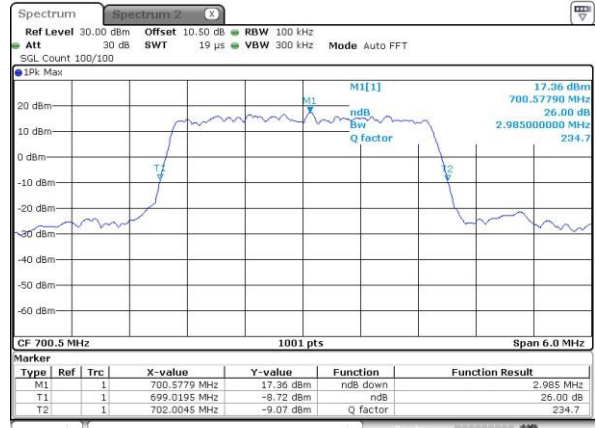


LTE Band 12

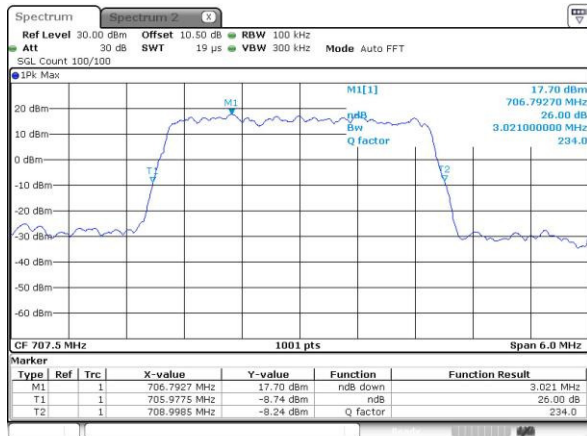
Lowest Channel / 3MHz / QPSK



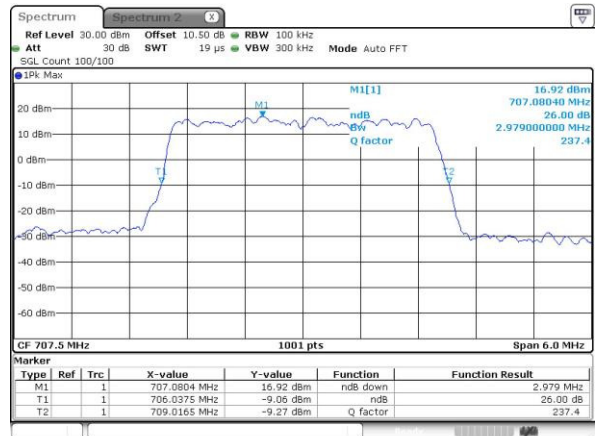
Lowest Channel / 3MHz / 16QAM



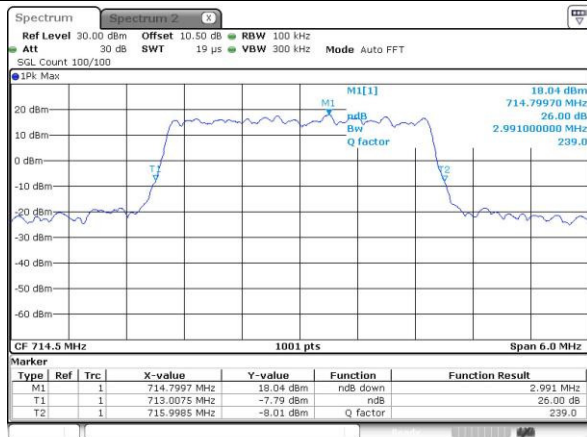
Middle Channel / 3MHz / QPSK



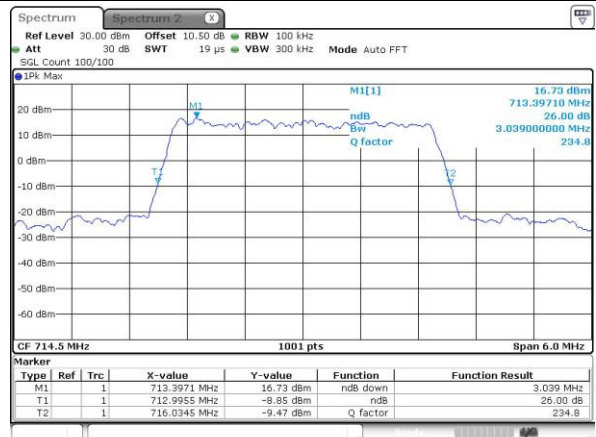
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



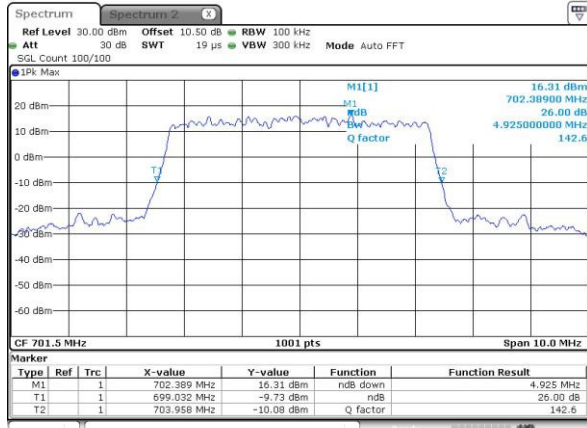
Highest Channel / 3MHz / 16QAM





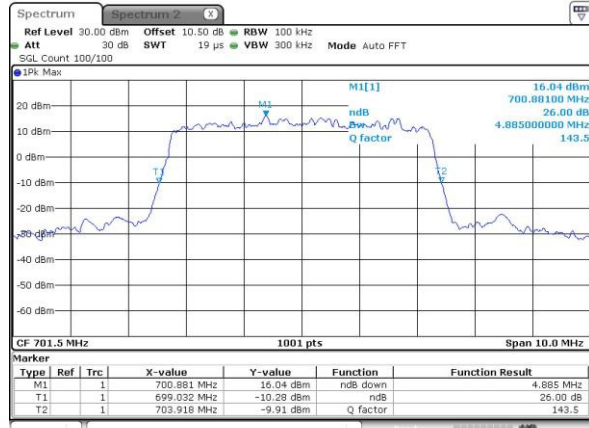
LTE Band 12

Lowest Channel / 5MHz / QPSK



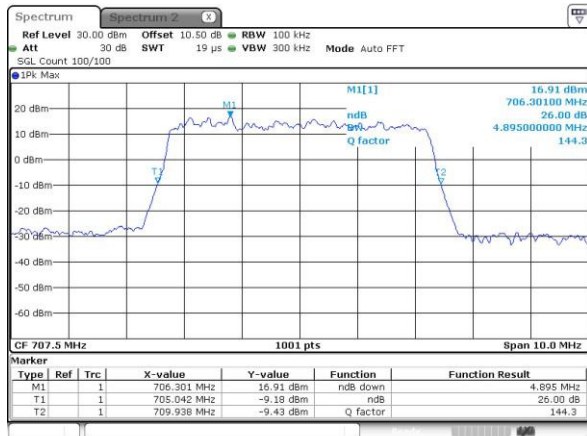
Date: 1.SEP.2016 19:29:01

Lowest Channel / 5MHz / 16QAM



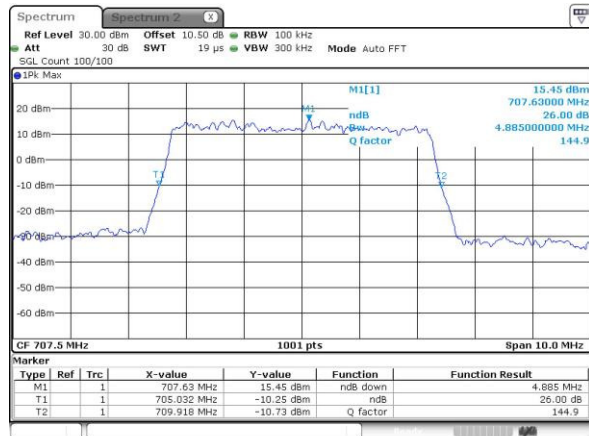
Date: 1.SEP.2016 19:28:49

Middle Channel / 5MHz / QPSK



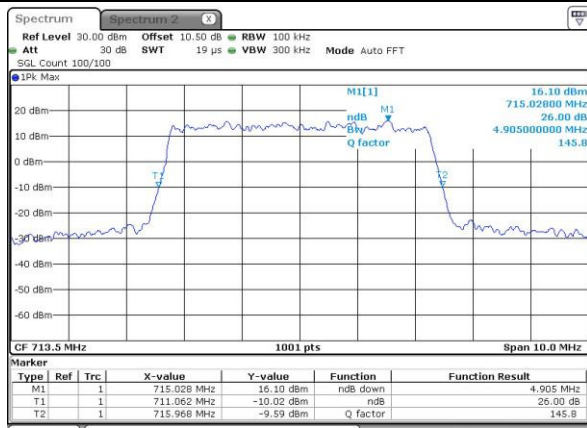
Date: 1.SEP.2016 19:36:11

Middle Channel / 5MHz / 16QAM



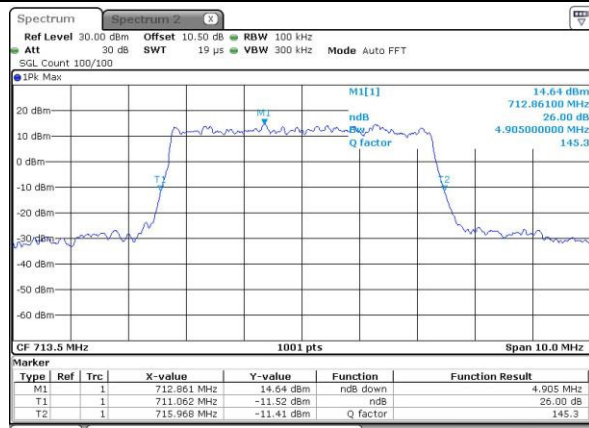
Date: 1.SEP.2016 19:36:23

Highest Channel / 5MHz / QPSK



Date: 1.SEP.2016 19:39:07

Highest Channel / 5MHz / 16QAM

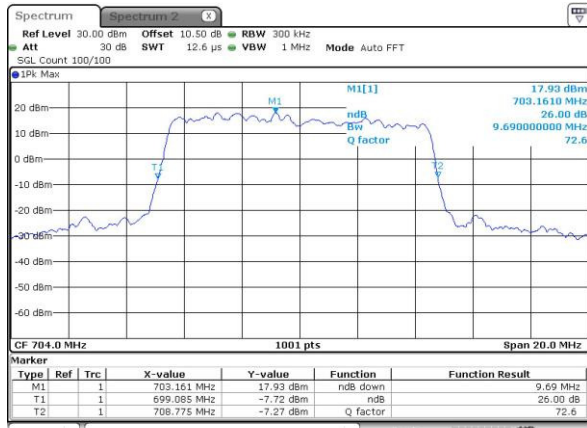


Date: 1.SEP.2016 19:38:55

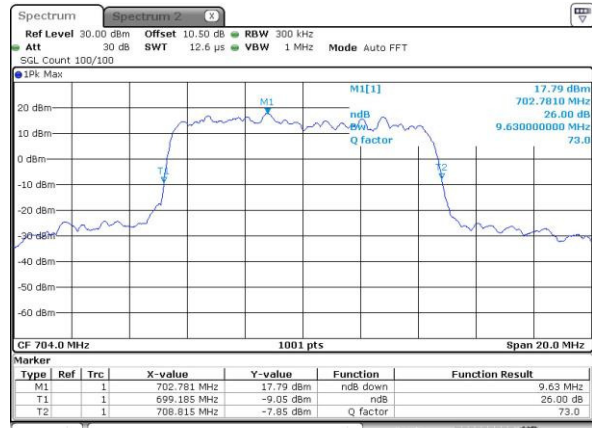


LTE Band 12

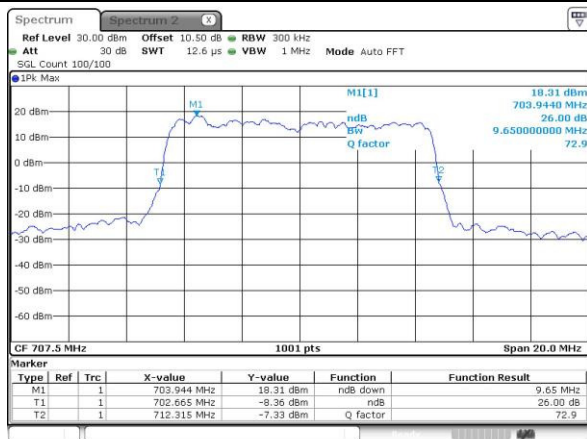
Lowest Channel / 10MHz / QPSK



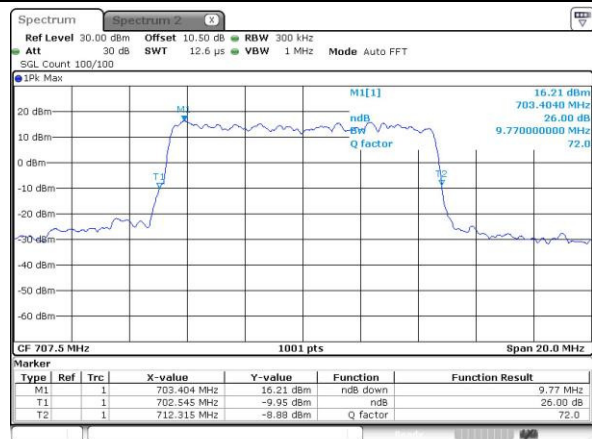
Lowest Channel / 10MHz / 16QAM



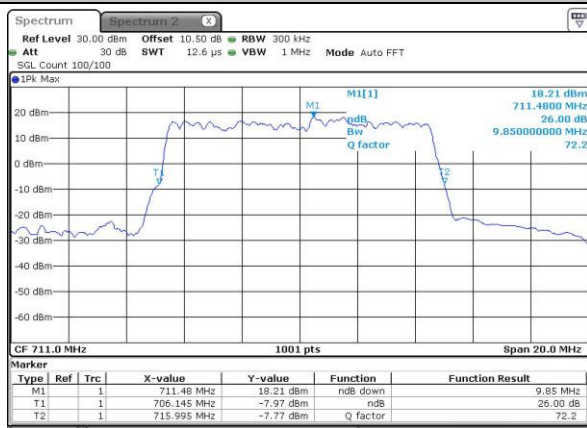
Middle Channel / 10MHz / QPSK



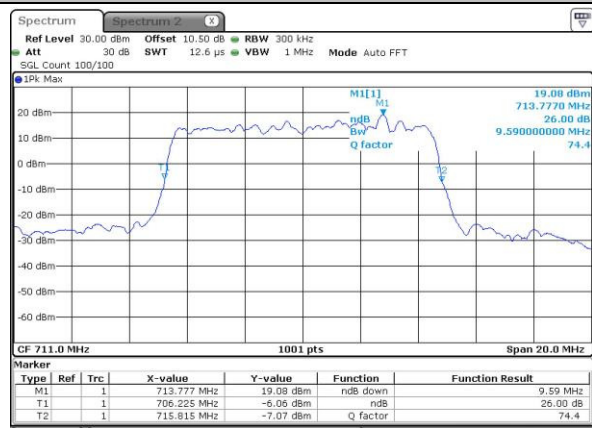
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



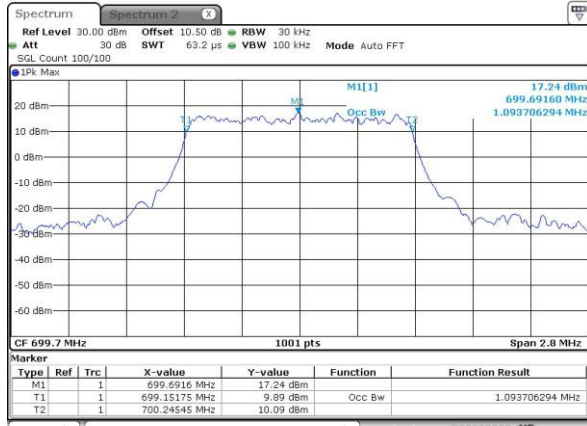
**Occupied Bandwidth**

Mode	LTE Band 12 : 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	2.72	2.7	4.49	4.47	8.97	9.01	-	-	-	-
Middle CH	1.1	1.1	2.72	2.72	4.45	4.48	9.05	9.07	-	-	-	-
Highest CH	1.09	1.09	2.72	2.73	4.51	4.46	8.95	8.95	-	-	-	-

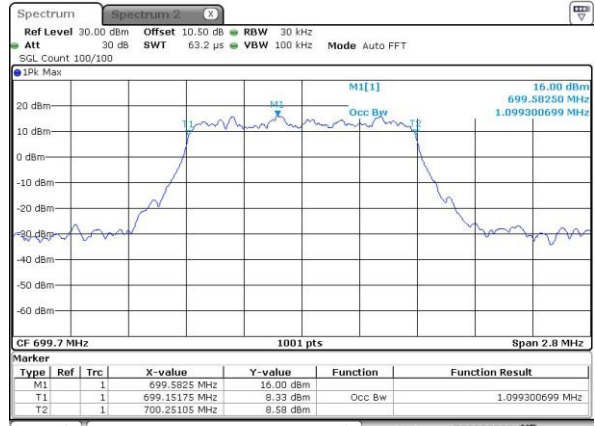


LTE Band 12

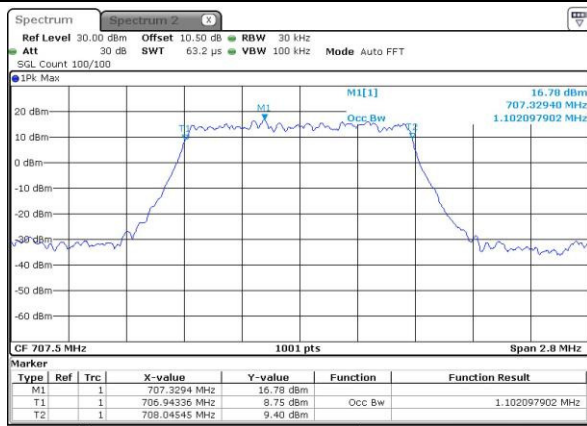
Lowest Channel / 1.4MHz / QPSK



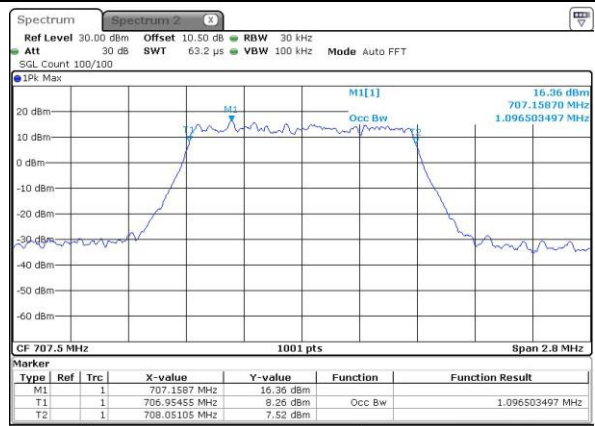
Lowest Channel / 1.4MHz / 16QAM



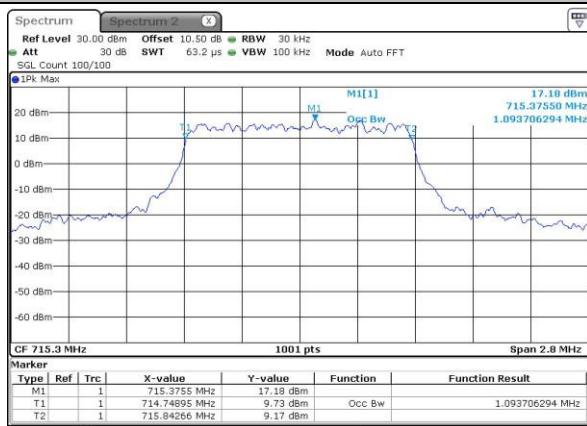
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM

