

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	0.0113	
30	Normal Voltage	0.0107	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0116	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.9 V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



LTE Band 17

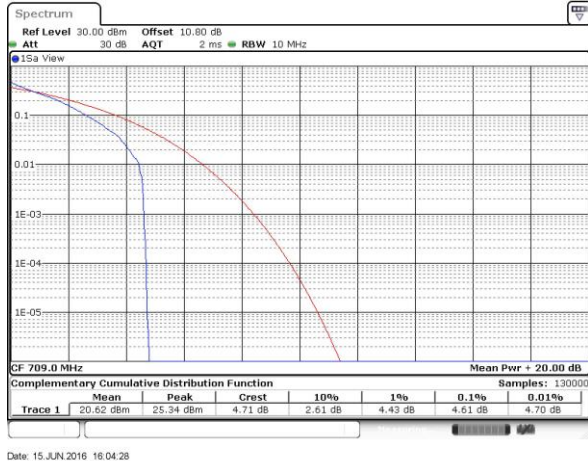
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.61	4.72	5.65	5.77	PASS
Middle CH	4.72	4.67	5.59	5.77	
Highest CH	4.81	4.72	5.51	5.65	

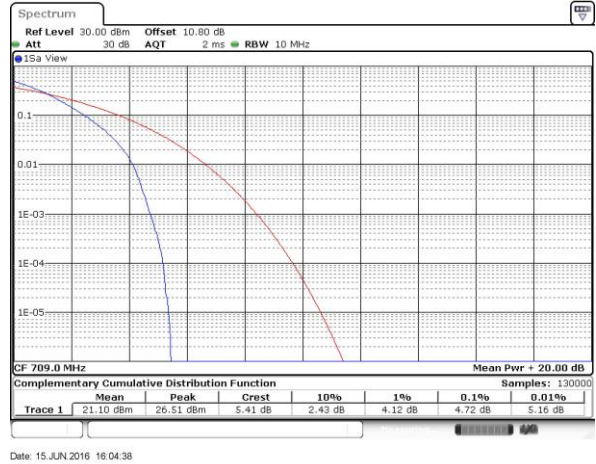


LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



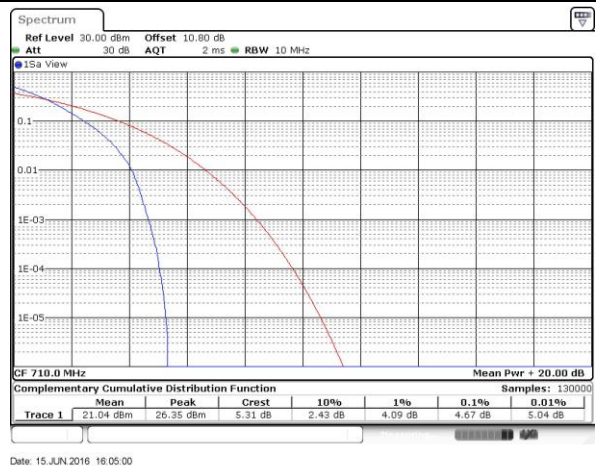
Lowest Channel / Full RB



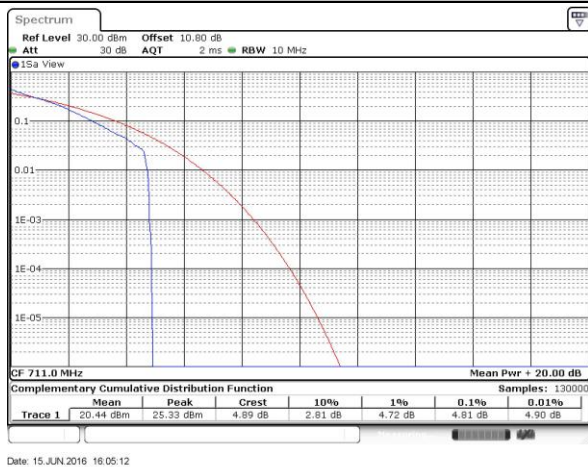
Middle Channel/ 1RB



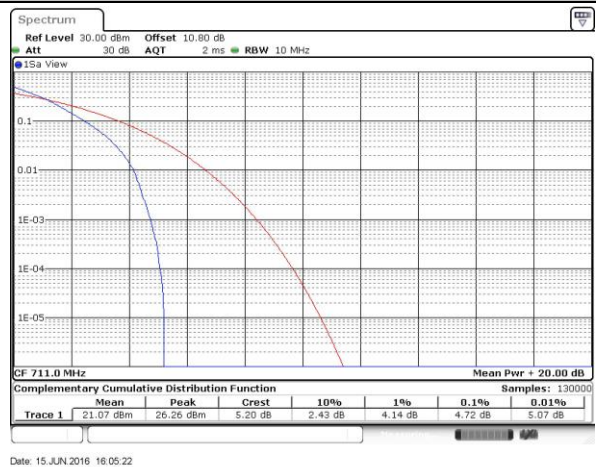
Middle Channel / Full RB

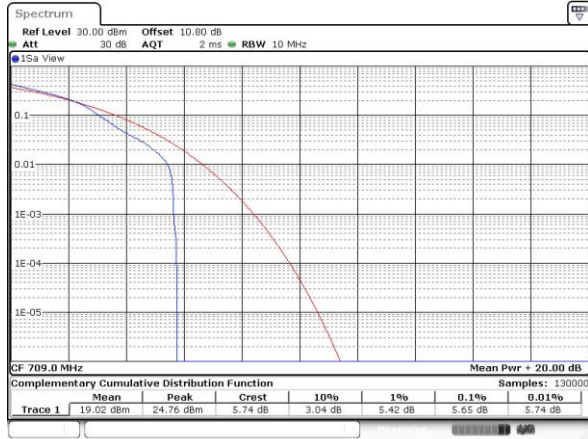


Highest Channel/ 1RB

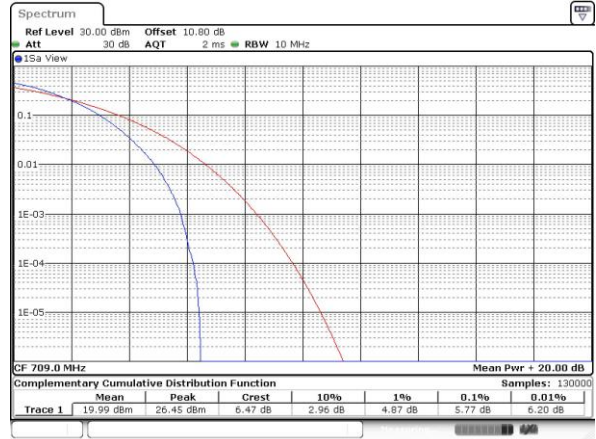


Highest Channel / Full RB

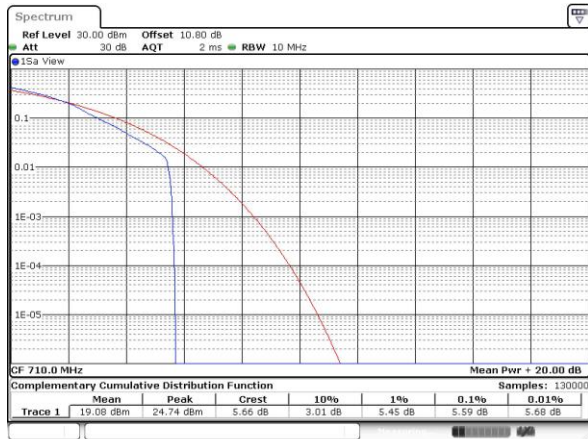


LTE Band 17 / 10MHz / 16QAM
Lowest Channel / 1RB


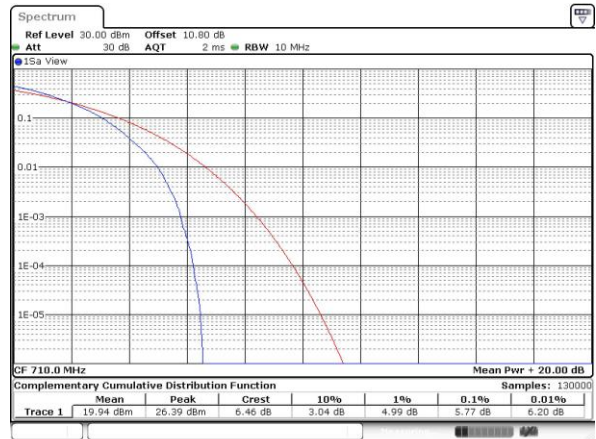
Date: 15 JUN 2016 16:03:09

Lowest Channel / Full RB


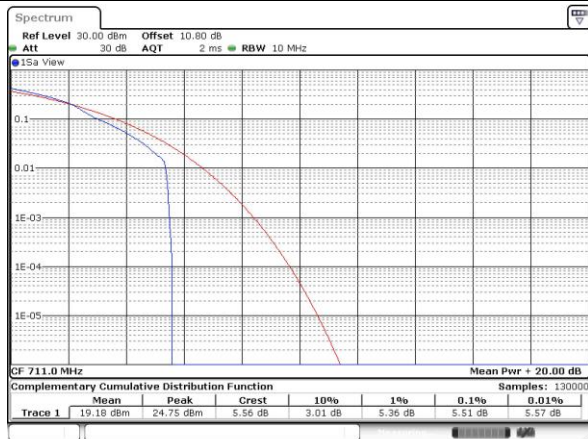
Date: 15 JUN 2016 16:03:20

Middle Channel/ 1RB


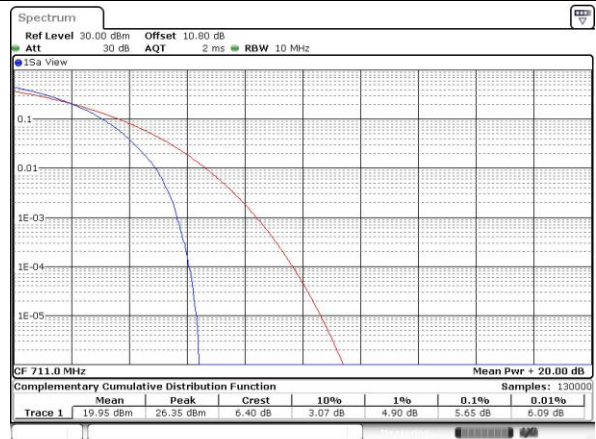
Date: 15 JUN 2016 16:03:33

Middle Channel / Full RB


Date: 15 JUN 2016 16:03:44

Highest Channel/ 1RB


Date: 15 JUN 2016 16:03:59

Highest Channel / Full RB


Date: 15 JUN 2016 16:04:14



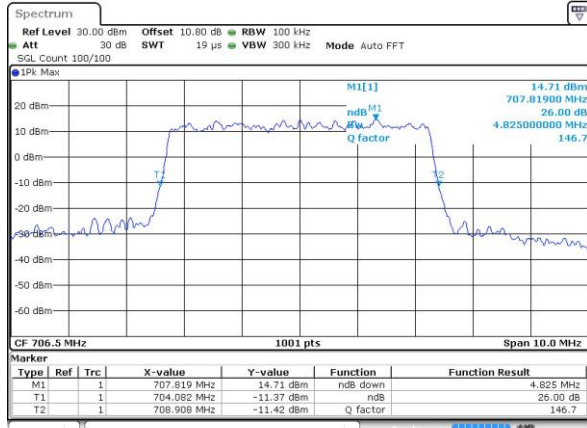
26dB Bandwidth

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	-	-	-	-	4.83	4.90	9.79	9.87	-	-	-	-
Middle CH	-	-	-	-	4.88	4.86	9.63	9.79	-	-	-	-
Highest CH	-	-	-	-	4.89	4.95	9.63	9.77	-	-	-	-

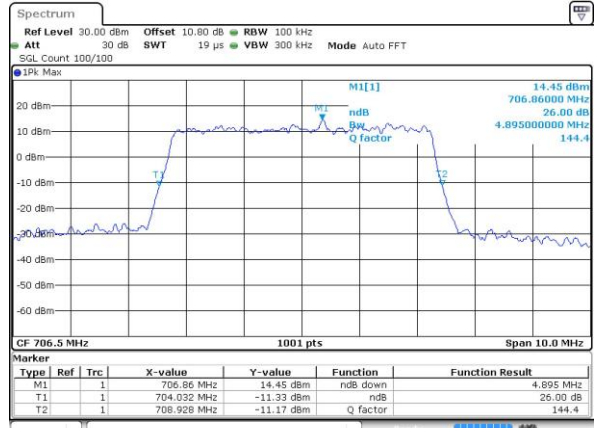


LTE Band 17

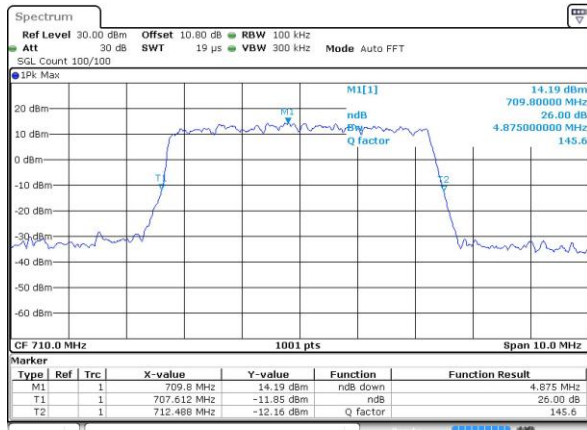
Lowest Channel / 5MHz / QPSK



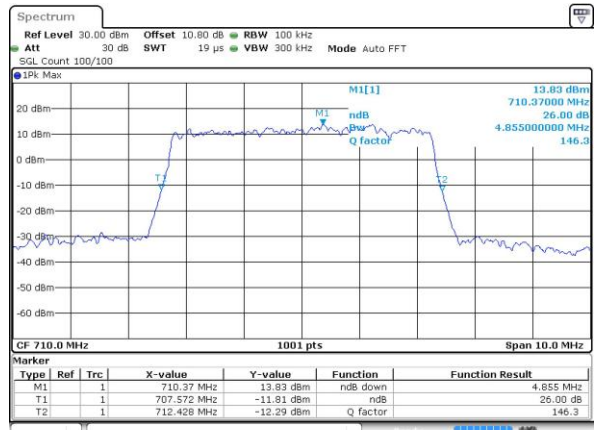
Lowest Channel / 5MHz / 16QAM



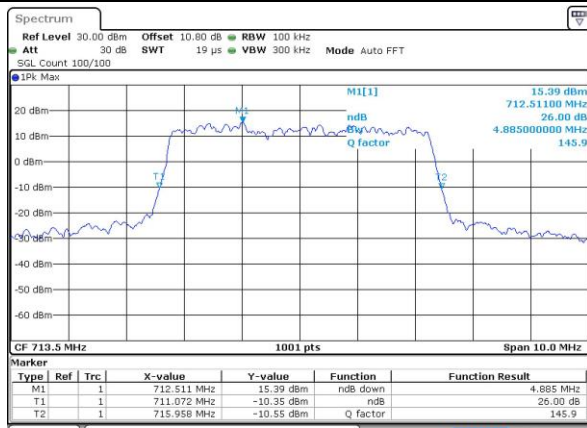
Middle Channel / 5MHz / QPSK



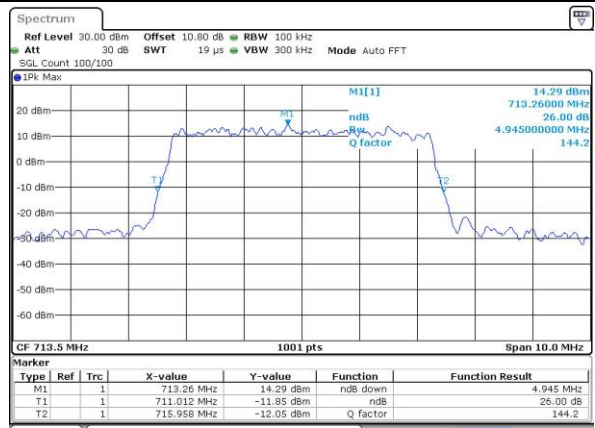
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



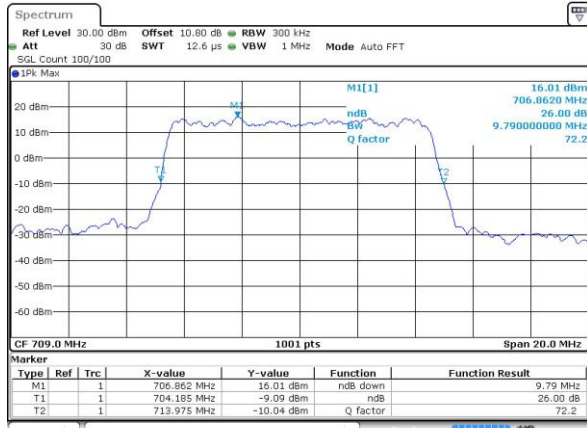
Highest Channel / 5MHz / 16QAM





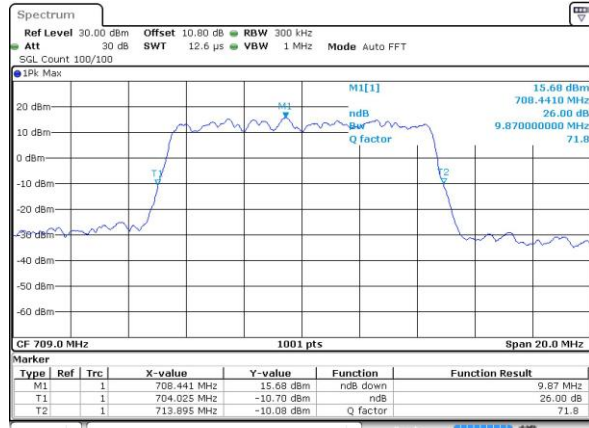
LTE Band 17

Lowest Channel / 10MHz / QPSK



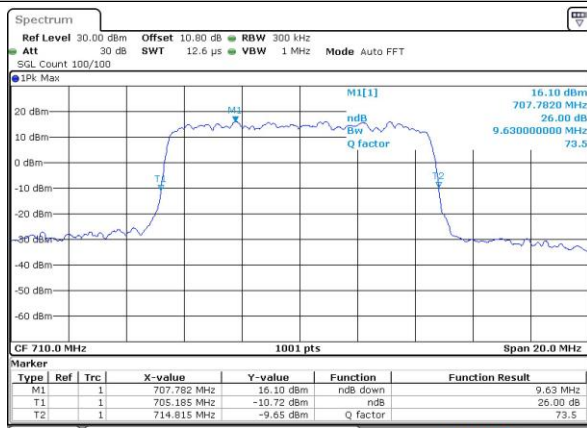
Date: 15 JUN 2016 13:46:25

Lowest Channel / 10MHz / 16QAM



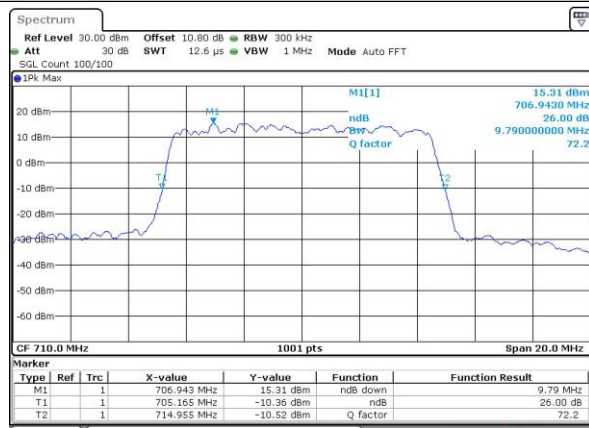
Date: 15 JUN 2016 13:46:36

Middle Channel / 10MHz / QPSK



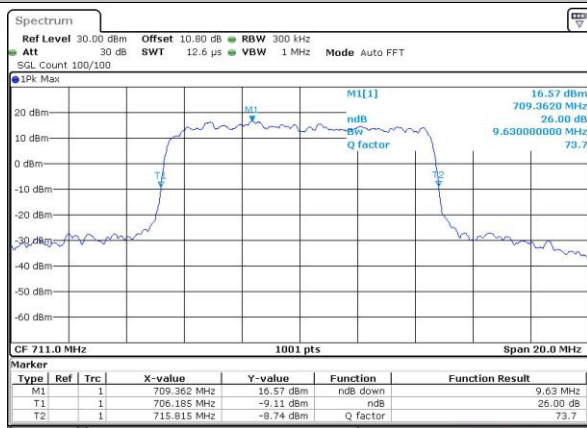
Date: 15 JUN 2016 14:35:54

Middle Channel / 10MHz / 16QAM



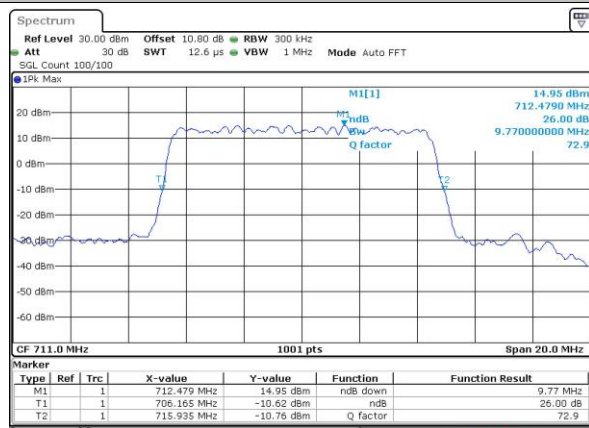
Date: 15 JUN 2016 14:36:05

Highest Channel / 10MHz / QPSK



Date: 15 JUN 2016 14:38:42

Highest Channel / 10MHz / 16QAM



Date: 15 JUN 2016 14:38:53



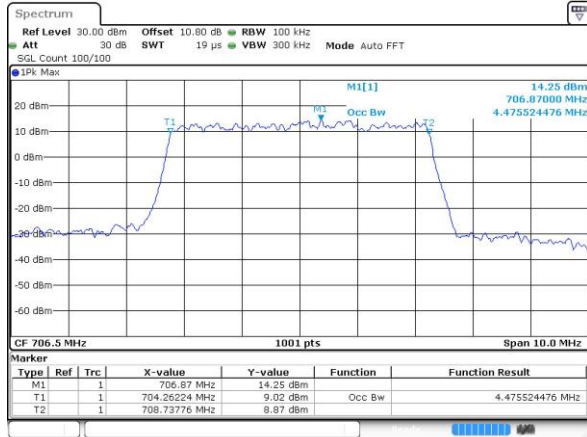
Occupied Bandwidth

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	-	-	-	-	4.48	4.49	8.95	8.99	-	-	-	-
Middle CH	-	-	-	-	4.47	4.47	8.99	8.99	-	-	-	-
Highest CH	-	-	-	-	4.48	4.5	9.01	9.01	-	-	-	-

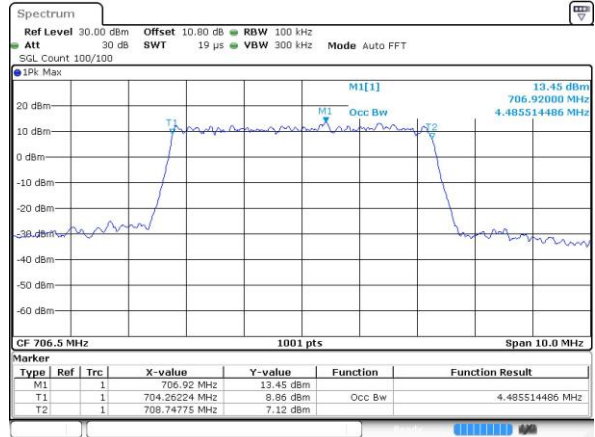


LTE Band 17

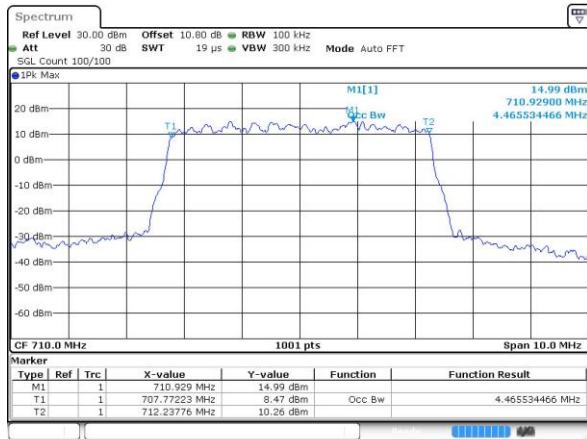
Lowest Channel / 5MHz / QPSK



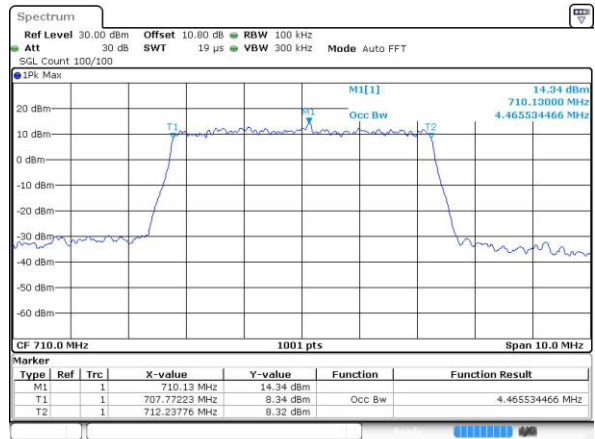
Lowest Channel / 5MHz / 16QAM



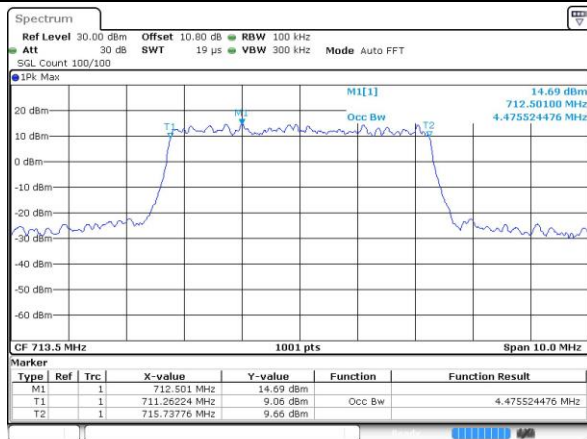
Middle Channel / 5MHz / QPSK



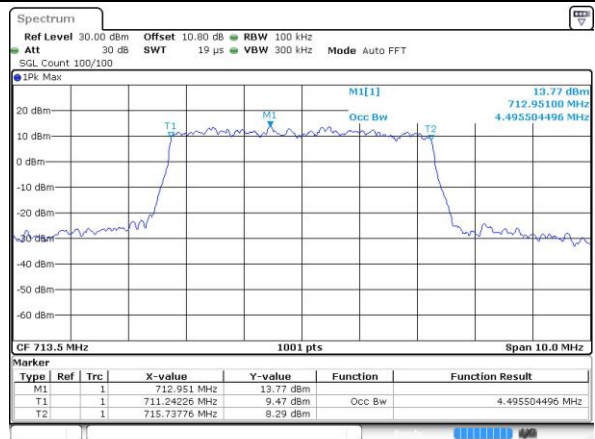
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



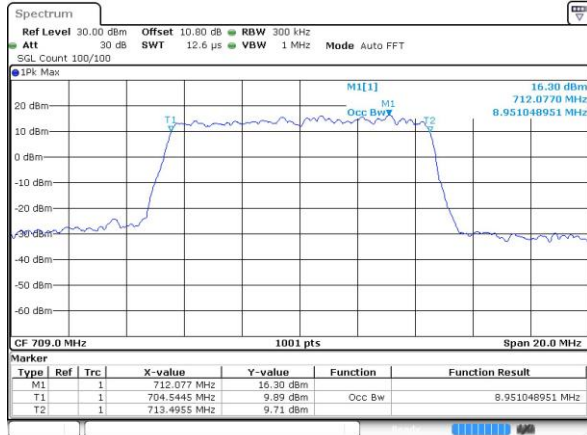
Highest Channel / 5MHz / 16QAM



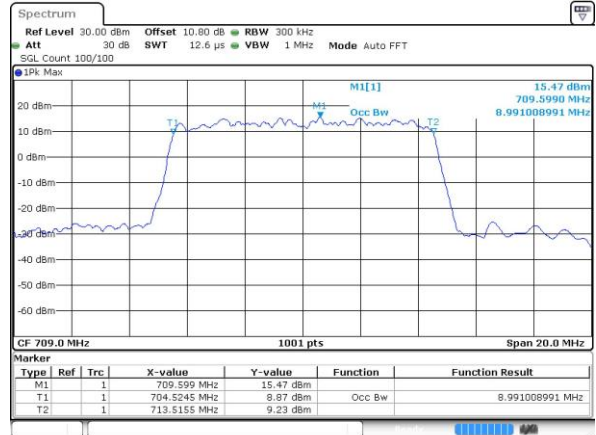


LTE Band 17

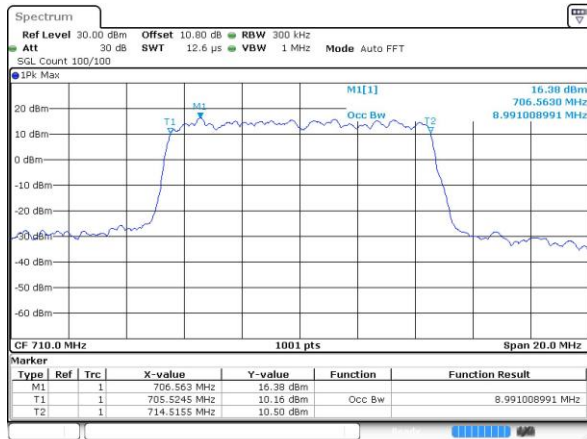
Lowest Channel / 10MHz / QPSK



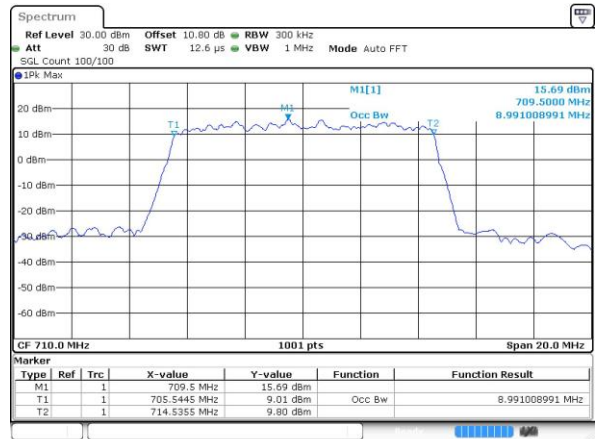
Lowest Channel / 10MHz / 16QAM



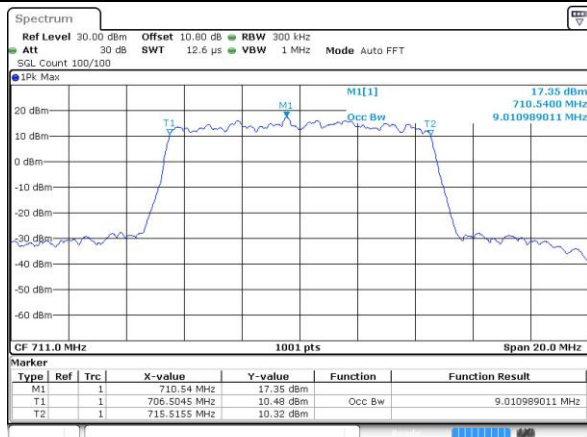
Middle Channel / 10MHz / QPSK



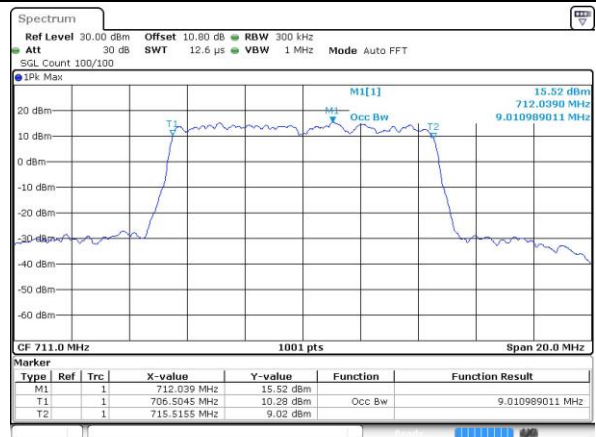
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



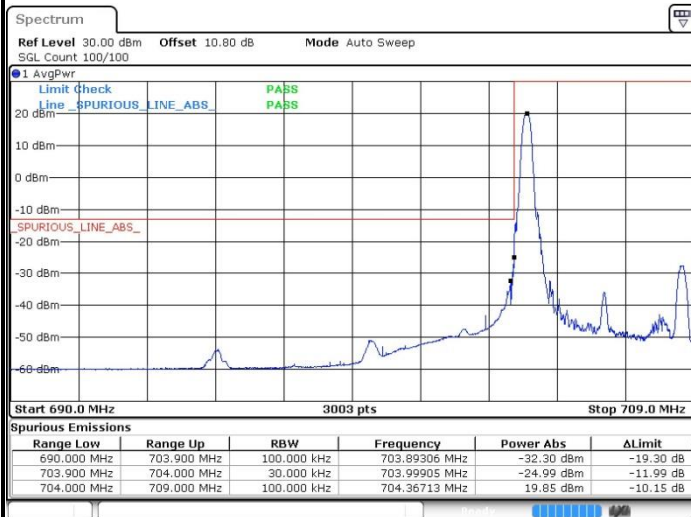


Conducted Band Edge

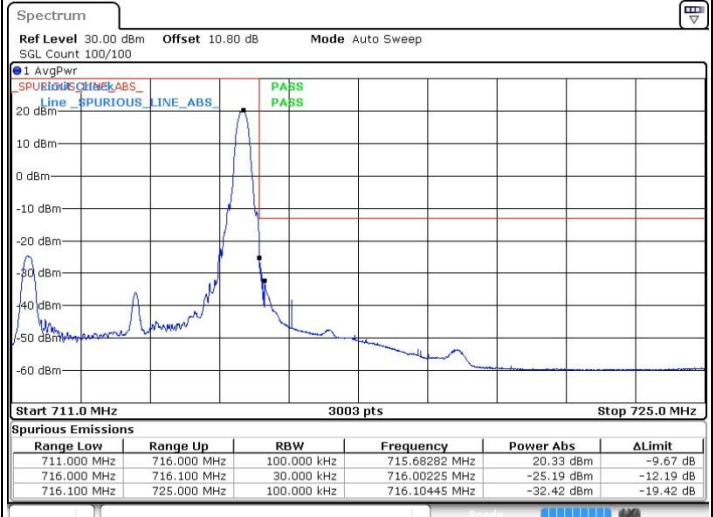


LTE Band 17 / 5MHz / QPSK

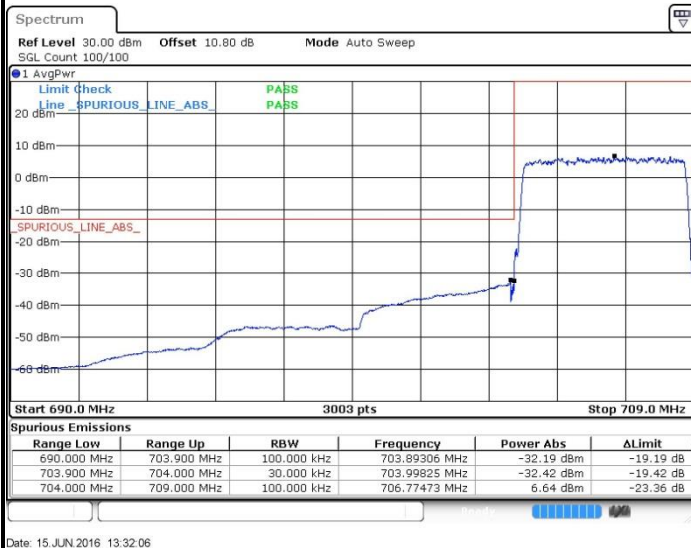
Lowest Band Edge / 1 RB



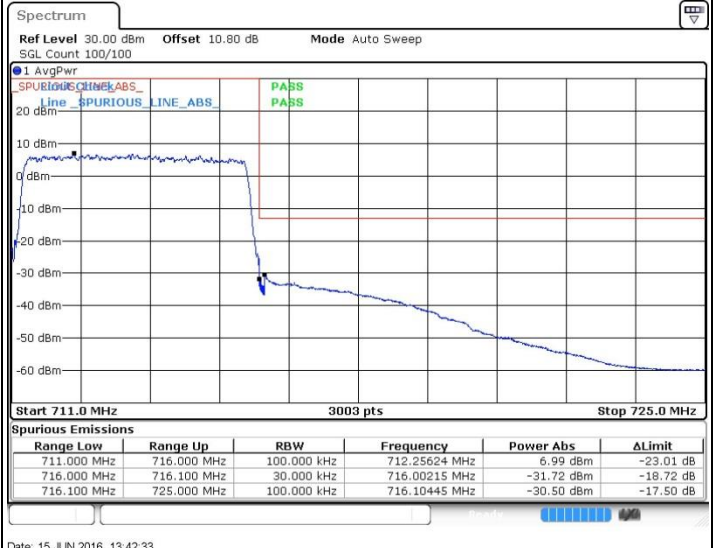
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



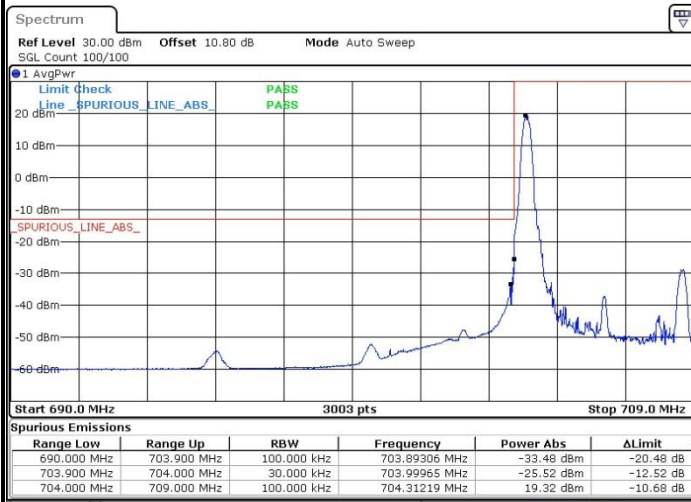
Highest Band Edge / Full RB





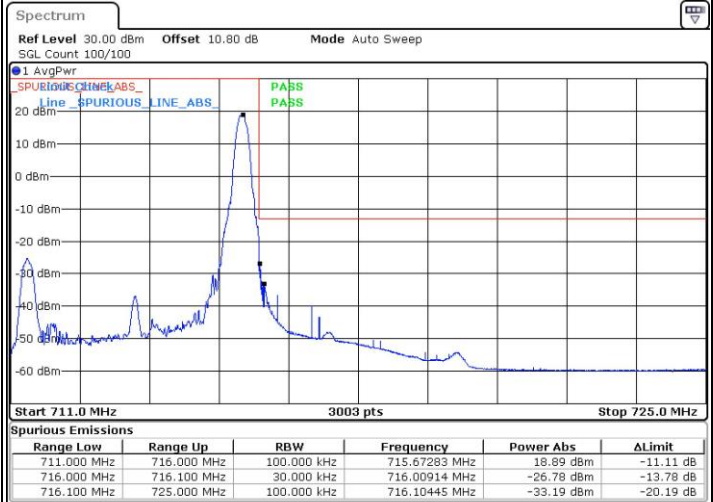
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



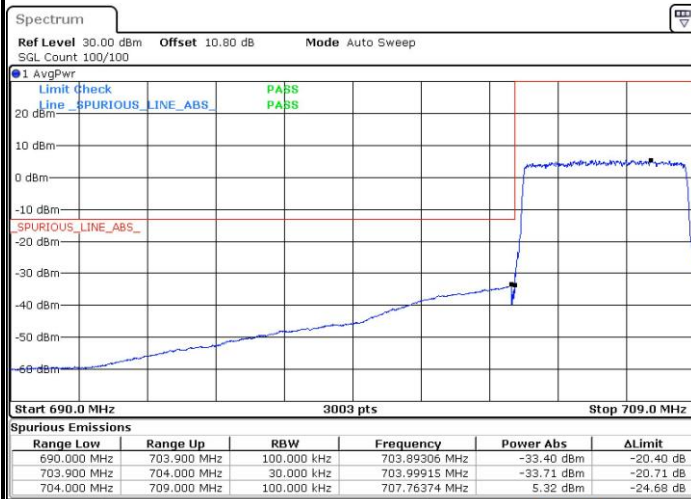
Date: 15 JUN 2016 13:30:54

Highest Band Edge / 1 RB



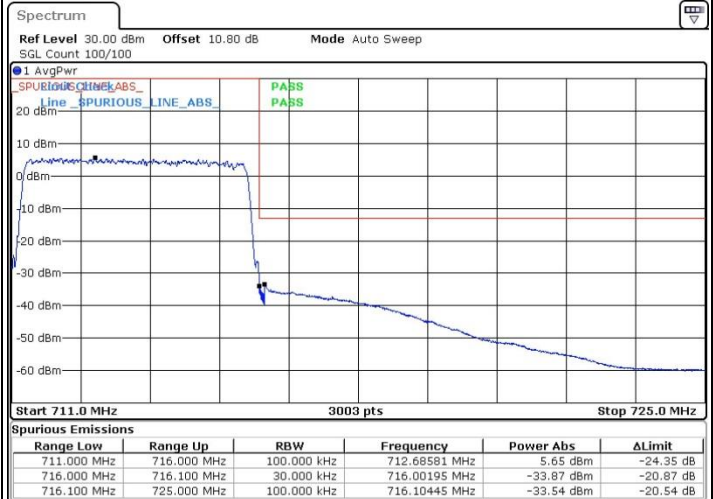
Date: 15 JUN 2016 13:41:20

Lowest Band Edge / Full RB



Date: 15 JUN 2016 13:33:19

Highest Band Edge / Full RB

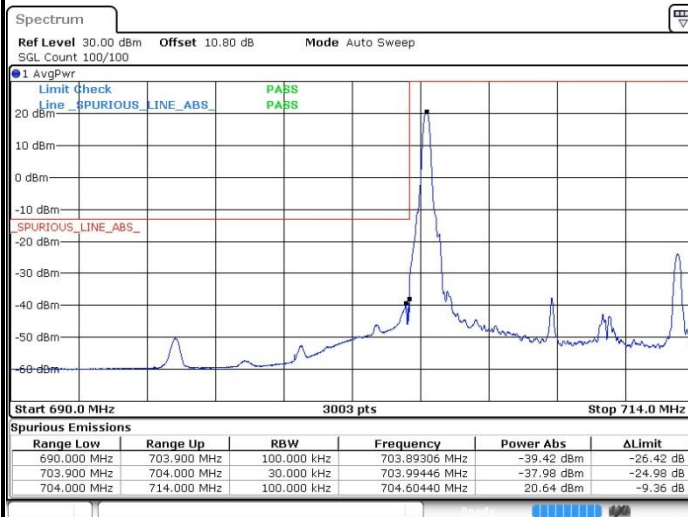


Date: 15 JUN 2016 13:43:45

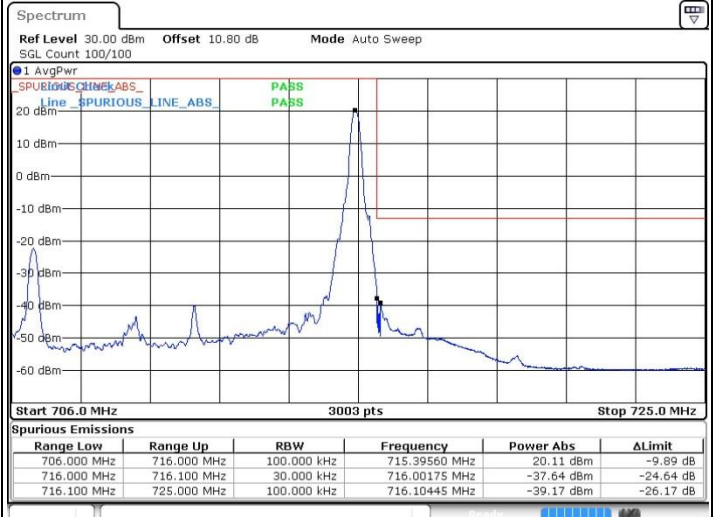


LTE Band 17 / 10MHz / QPSK

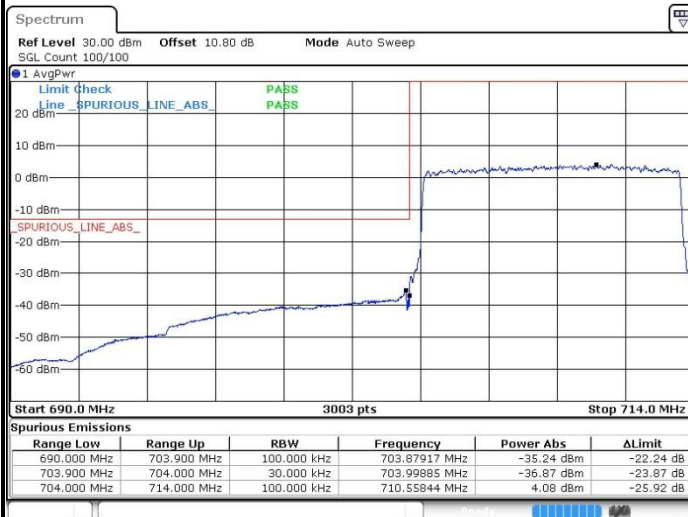
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

