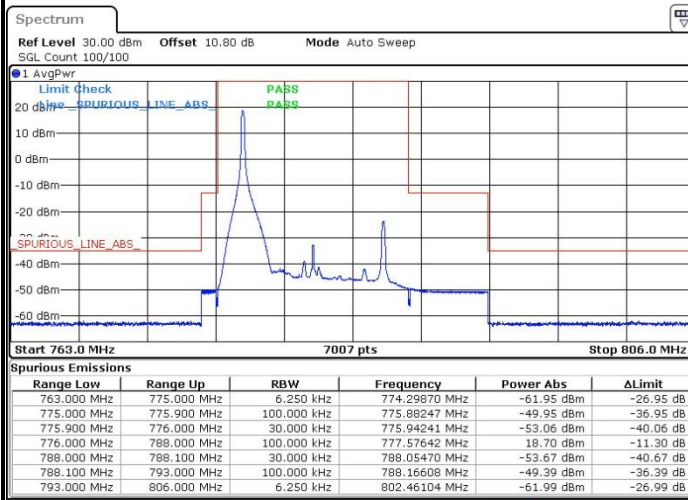




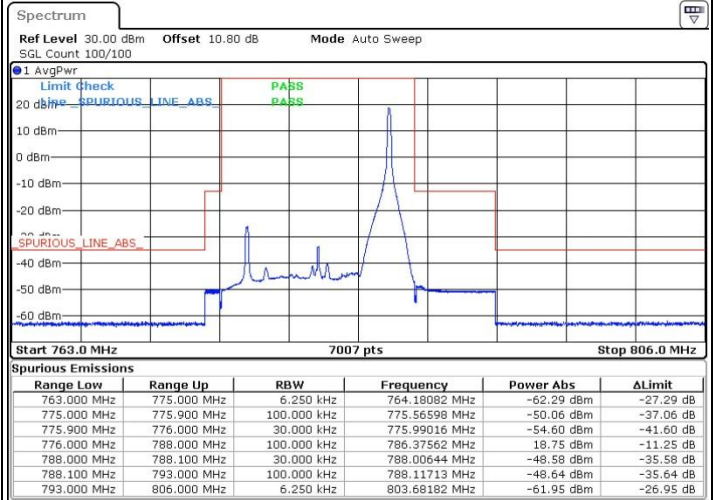
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



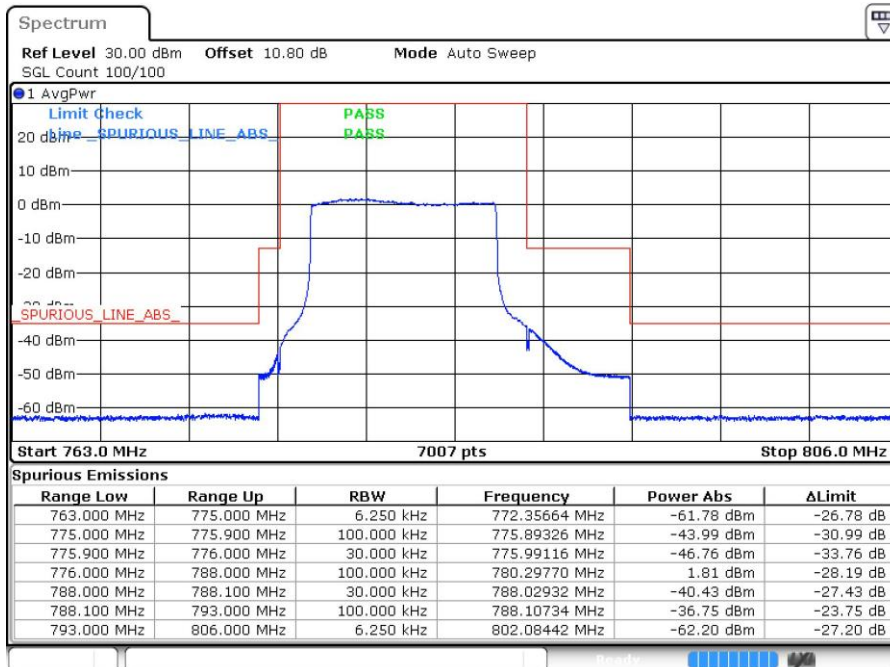
Date: 13 JUN 2018 11:44:20

Highest Band Edge / 1 RB



Date: 13 JUN 2018 11:49:18

Band Edge / Full RB

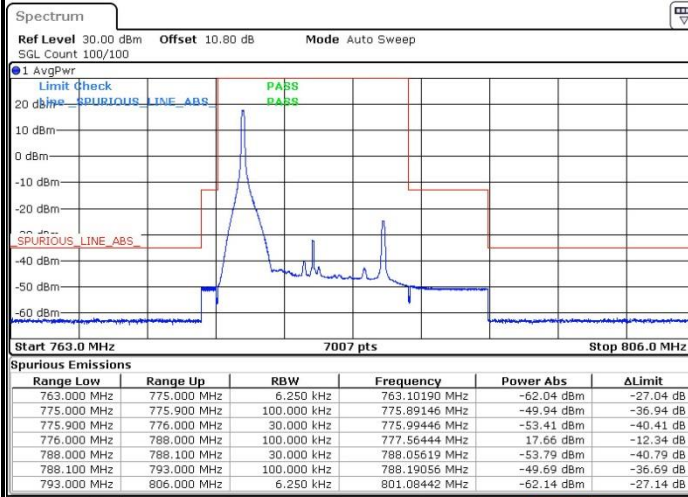


Date: 13 JUN 2018 11:42:41



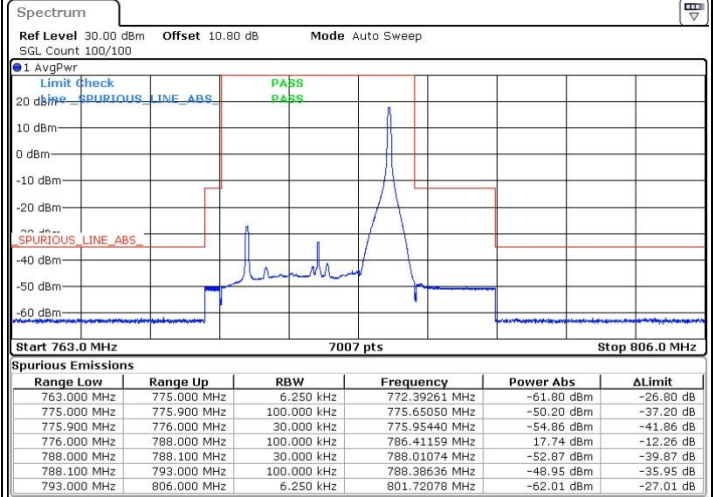
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



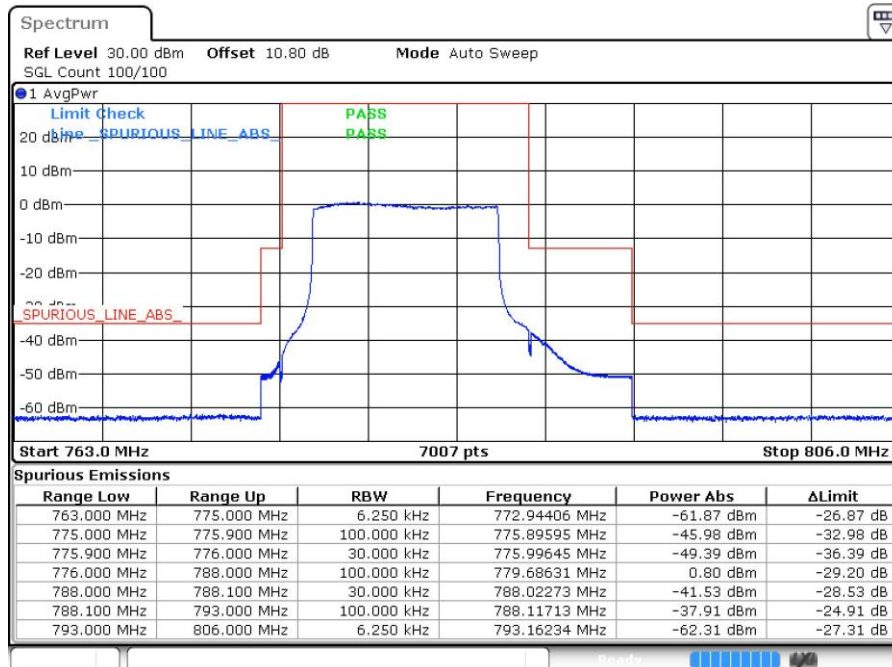
Date: 13 JUN 2018 11:54:46

Highest Band Edge / 1 RB



Date: 13 JUN 2018 11:56:26

Band Edge / Full RB



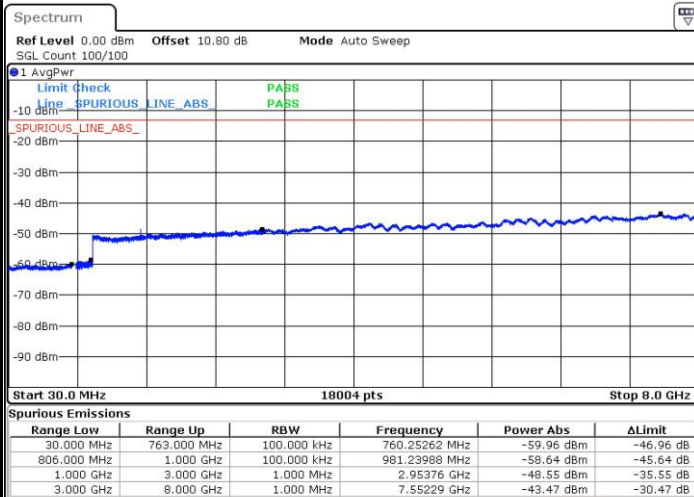
Date: 13 JUN 2018 11:53:07



Conducted Spurious Emission

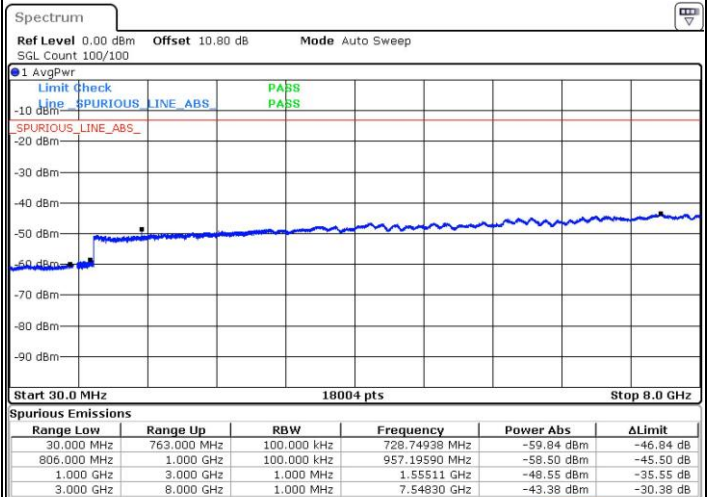
LTE Band 13 / 5MHz

Lowest Channel / QPSK



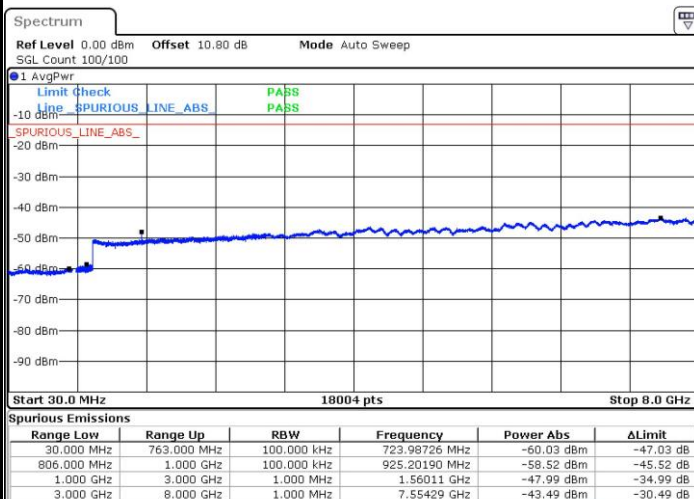
Date: 13 JUN 2018 11:15:46

Lowest Channel / 16QAM



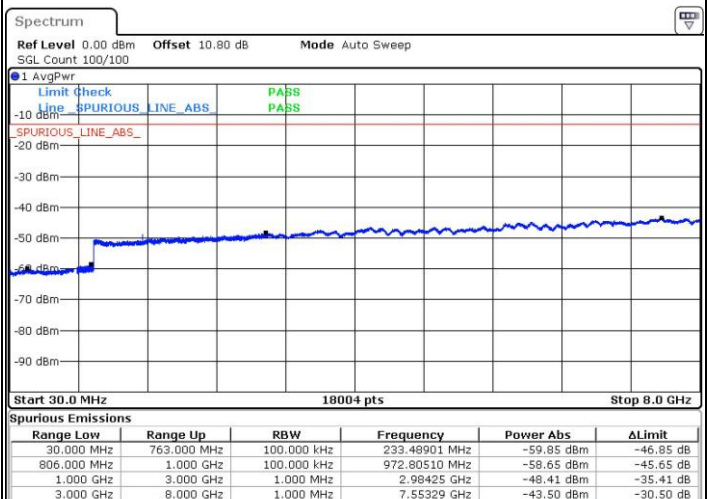
Date: 13 JUN 2018 11:16:40

Middle Channel / QPSK



Date: 13 JUN 2018 11:18:28

Middle Channel / 16QAM

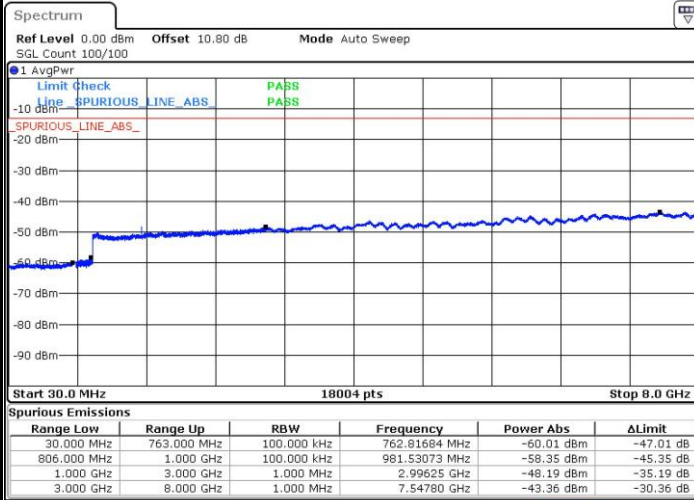


Date: 13 JUN 2018 11:17:34



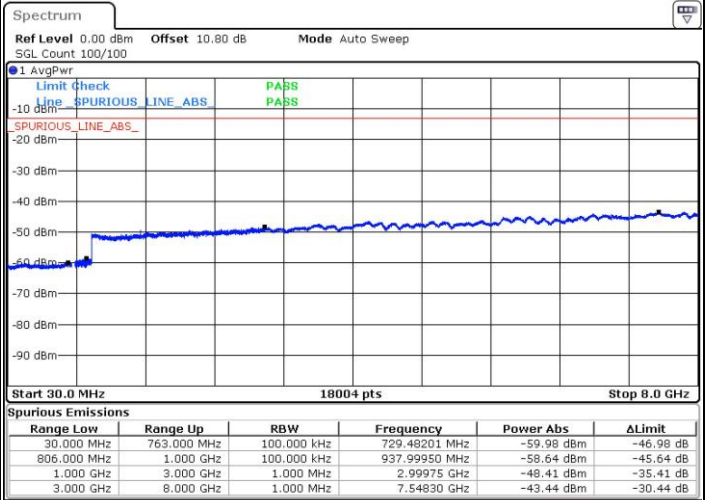
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 13 JUN 2018 11:27:24

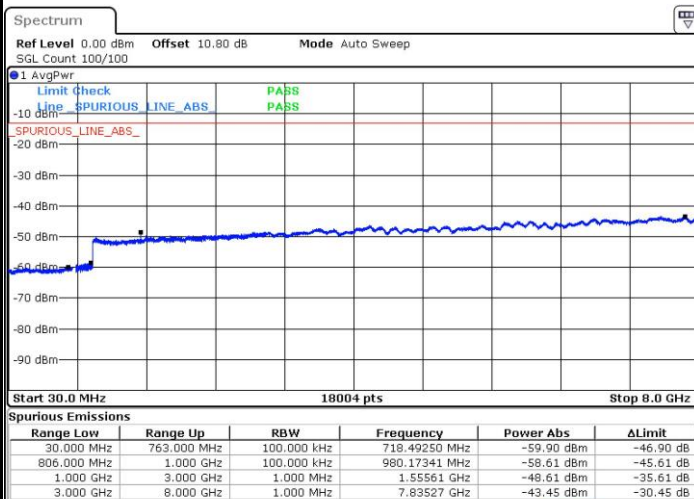
Highest Channel / 16QAM



Date: 13 JUN 2018 11:28:18

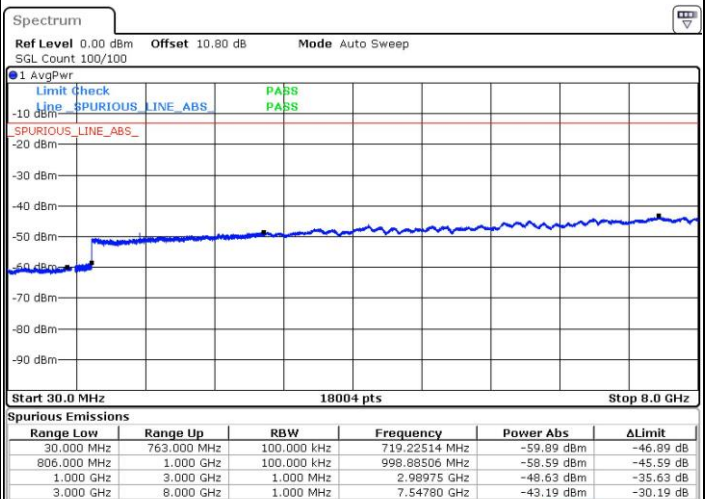
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 13 JUN 2018 11:51:07

Middle Channel / 16QAM

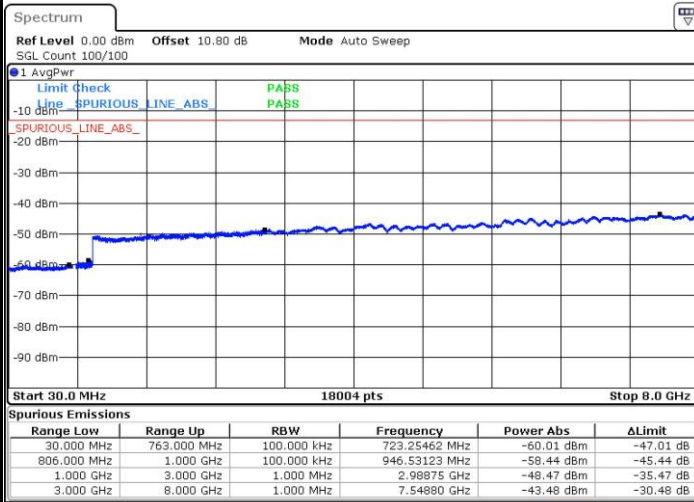


Date: 13 JUN 2018 11:50:13



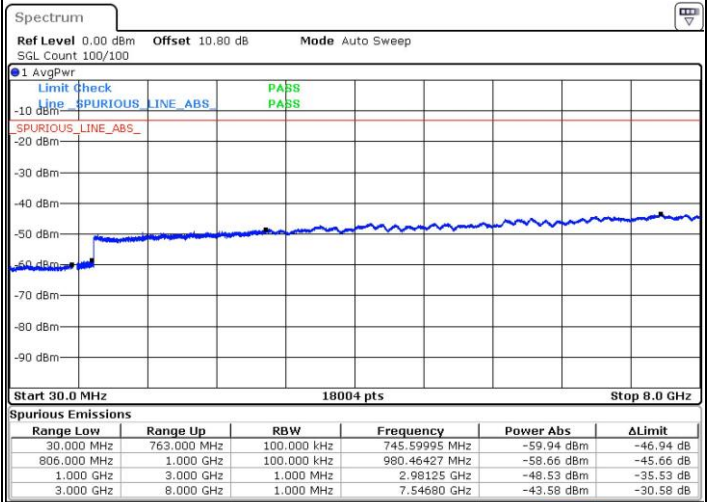
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



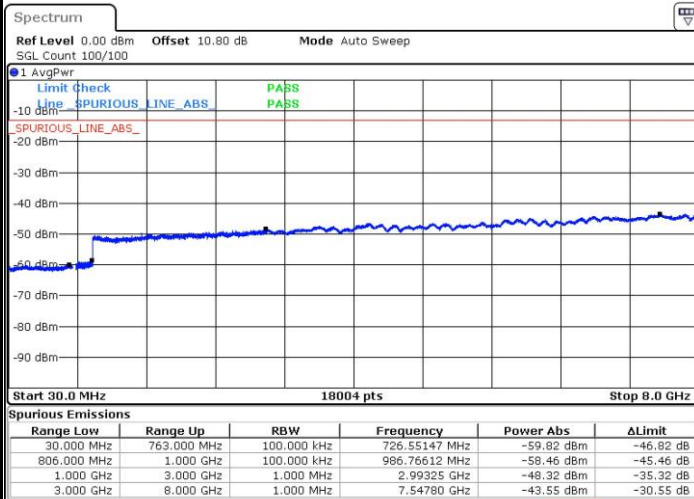
Date: 13 JUN 2018 11:32:52

Middle Channel / 64QAM



Date: 13 JUN 2018 11:33:46

Highest Channel / 64QAM

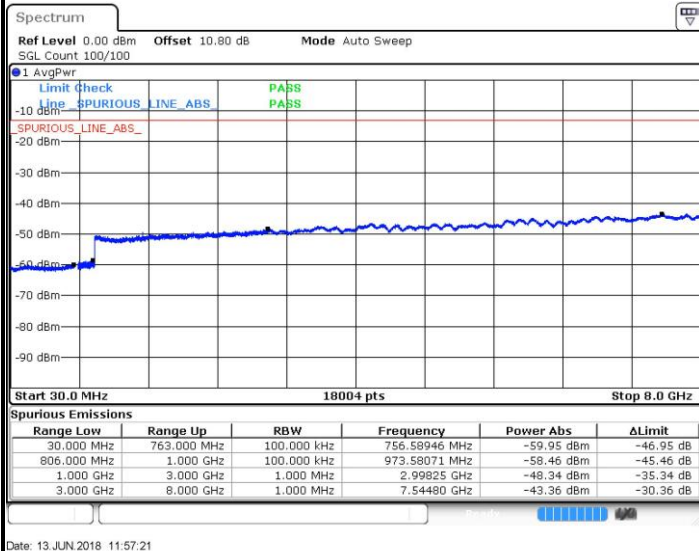


Date: 13 JUN 2018 11:38:41



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0088	PASS
40	Normal Voltage	0.0058	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0026	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0040	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

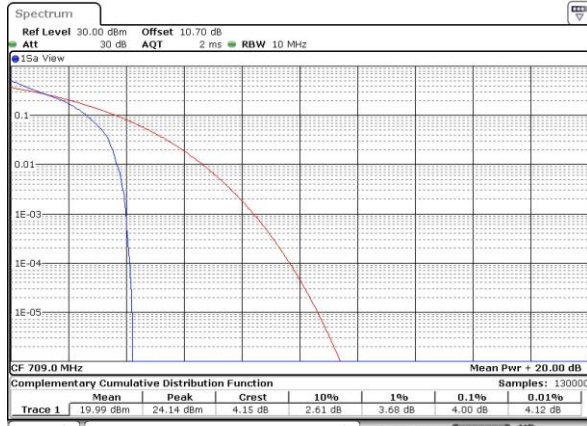
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4	5.07	5.01	6.03	PASS
Middle CH	4.26	4.96	5.19	6	
Highest CH	4.72	4.93	5.51	5.97	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.57	6.38	-	-	PASS
Middle CH	6.38	6.26	-	-	
Highest CH	6.14	6.35	-	-	

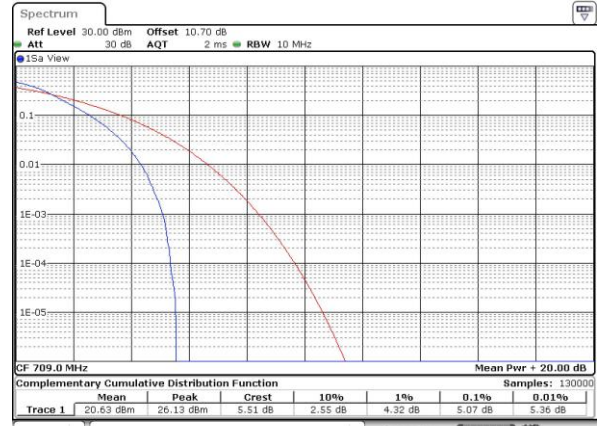


LTE Band 17 / 10MHz / QPSK

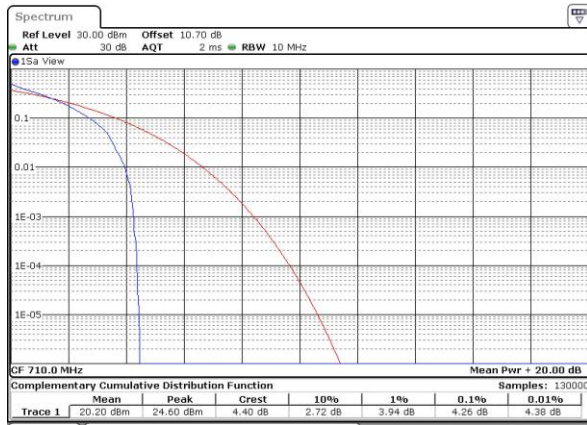
Lowest Channel / 1RB



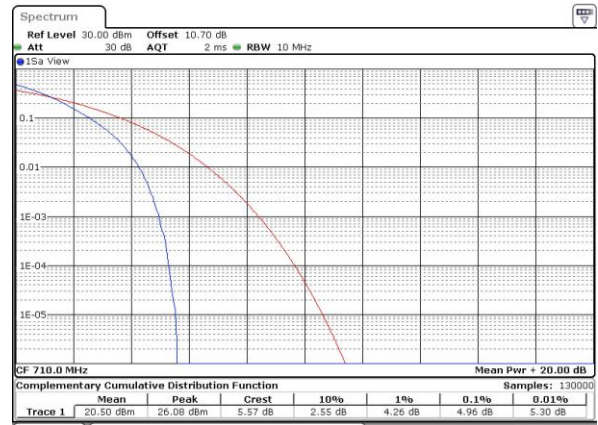
Lowest Channel / Full RB



Middle Channel / 1RB



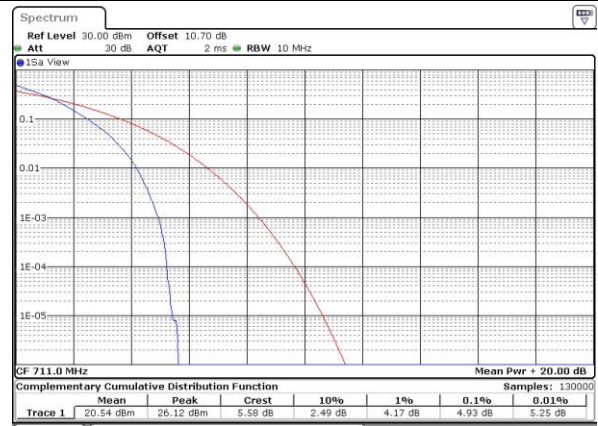
Middle Channel / Full RB



Highest Channel / 1RB



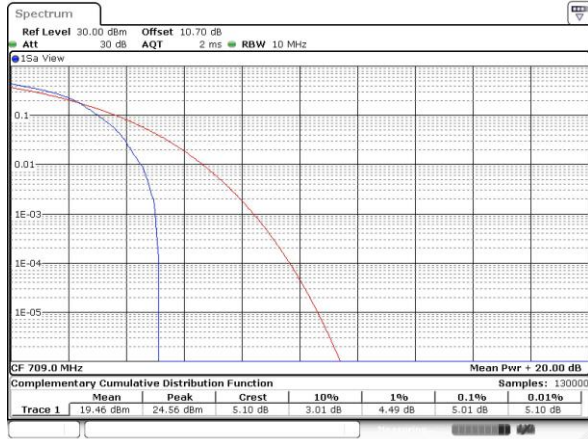
Highest Channel / Full RB



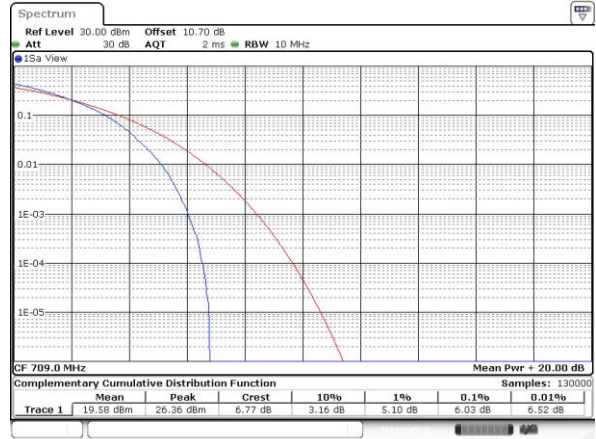


LTE Band 17 / 10MHz / 16QAM

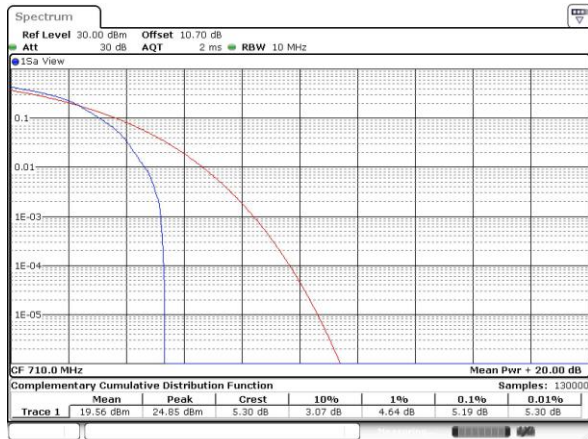
Lowest Channel / 1RB



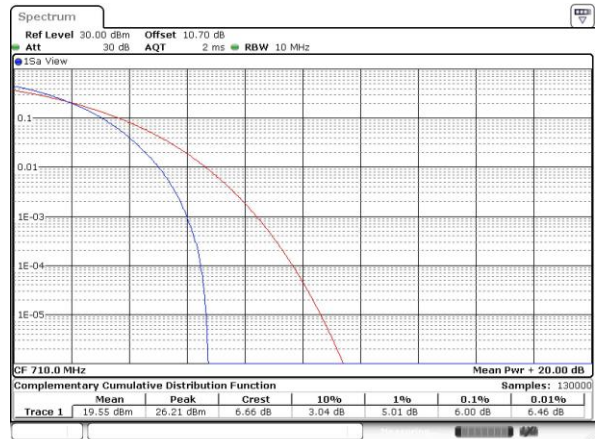
Lowest Channel / Full RB



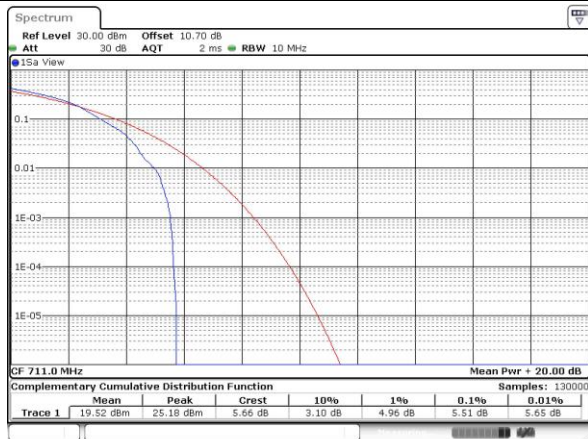
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



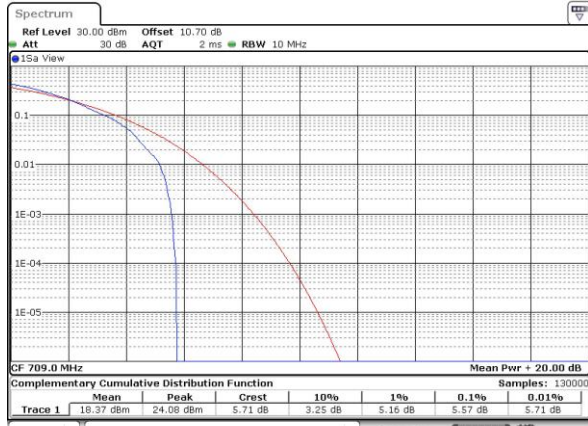
Highest Channel / Full RB



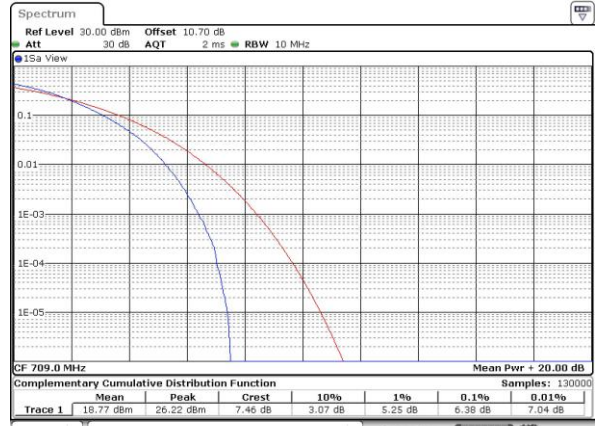


LTE Band 17 / 10MHz / 64QAM

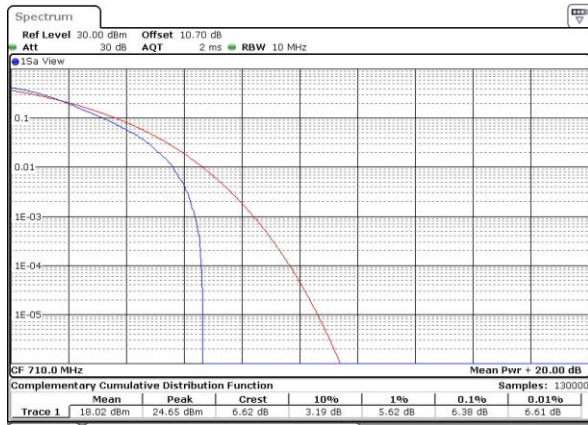
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



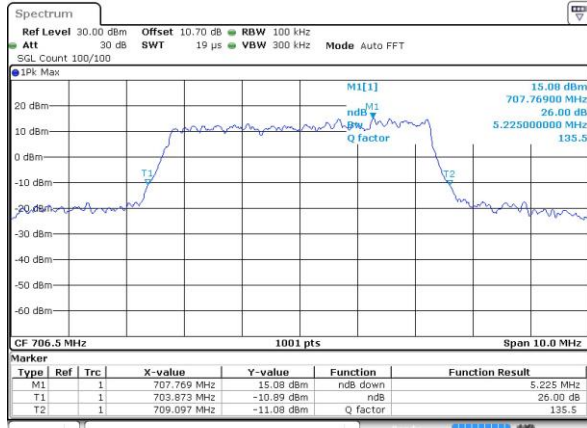
**26dB Bandwidth**

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	-	-	-	-	5.23	4.98	9.79	9.99	-	-	-	-
Middle CH	-	-	-	-	5.03	4.98	9.63	9.87	-	-	-	-
Highest CH	-	-	-	-	4.93	5.12	9.67	9.61	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.07	-	10.01	-	-	-	-	-
Middle CH	-	-	-	-	4.99	-	9.71	-	-	-	-	-
Highest CH	-	-	-	-	4.92	-	9.77	-	-	-	-	-

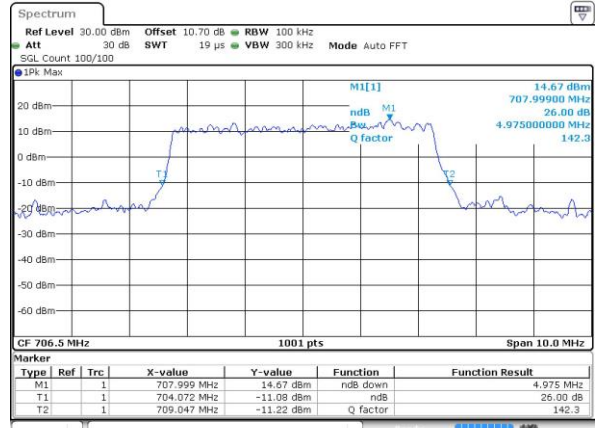


LTE Band 17

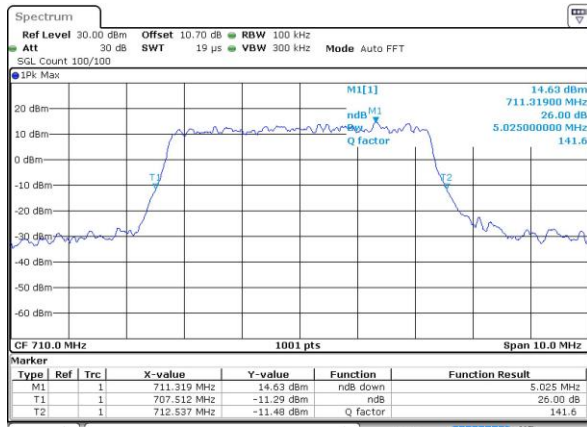
Lowest Channel / 5MHz / QPSK



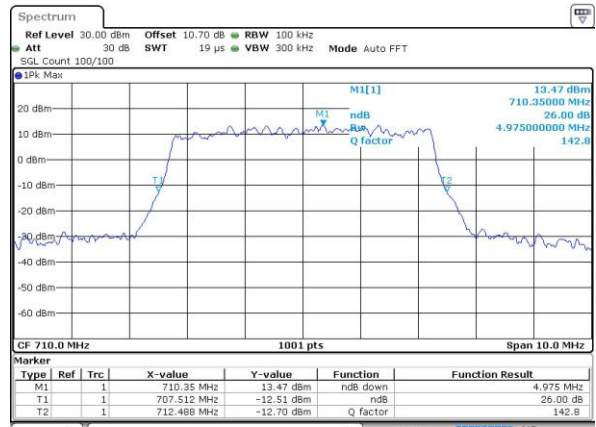
Lowest Channel / 5MHz / 16QAM



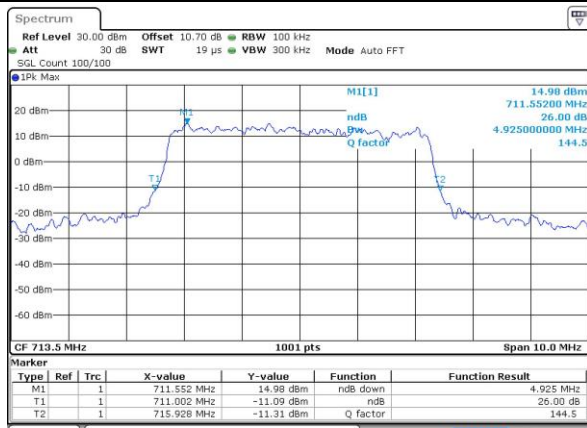
Middle Channel / 5MHz / QPSK



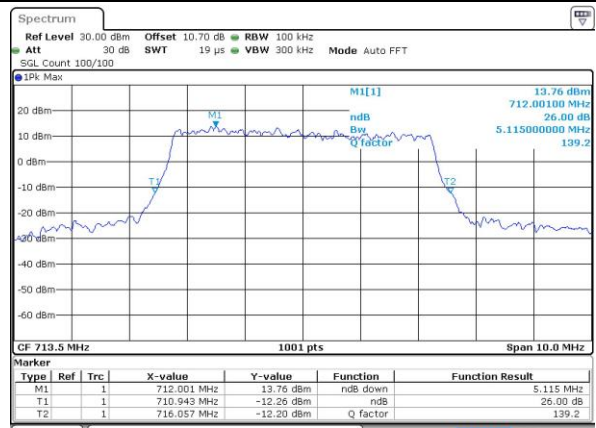
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



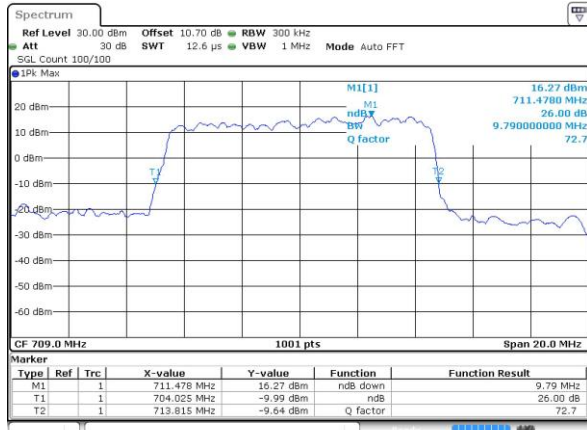
Highest Channel / 5MHz / 16QAM





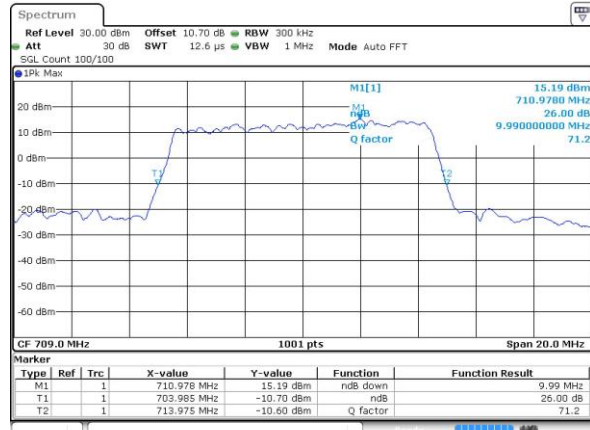
LTE Band 17

Lowest Channel / 10MHz / QPSK



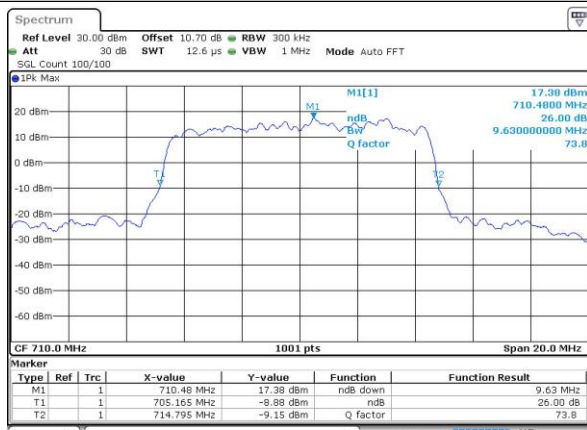
Date: 13 JUN 2018 10:26:30

Lowest Channel / 10MHz / 16QAM



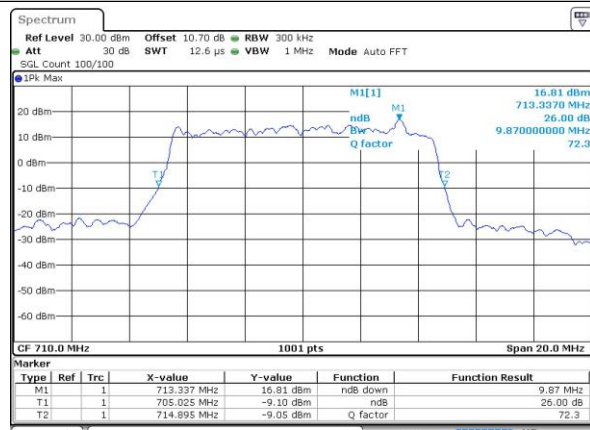
Date: 13 JUN 2018 10:26:41

Middle Channel / 10MHz / QPSK



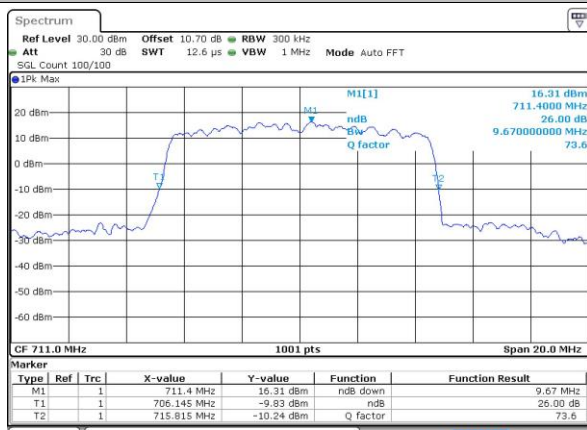
Date: 13 JUN 2018 10:33:38

Middle Channel / 10MHz / 16QAM



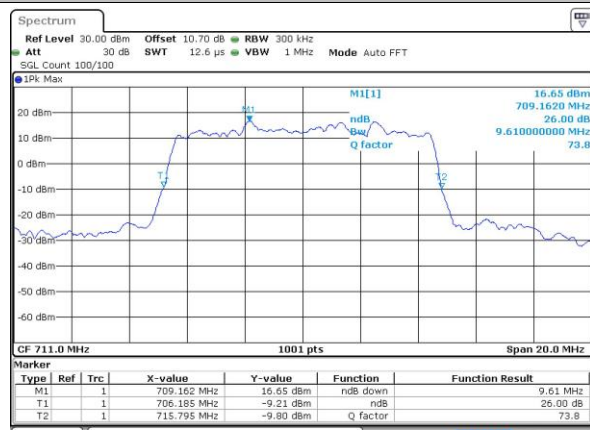
Date: 13 JUN 2018 10:33:48

Highest Channel / 10MHz / QPSK



Date: 13 JUN 2018 10:36:08

Highest Channel / 10MHz / 16QAM

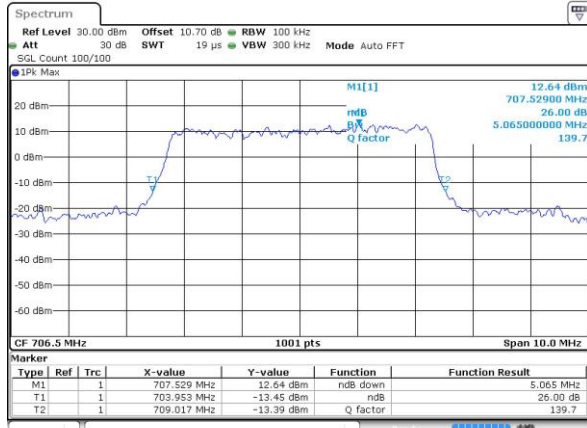


Date: 13 JUN 2018 10:36:19

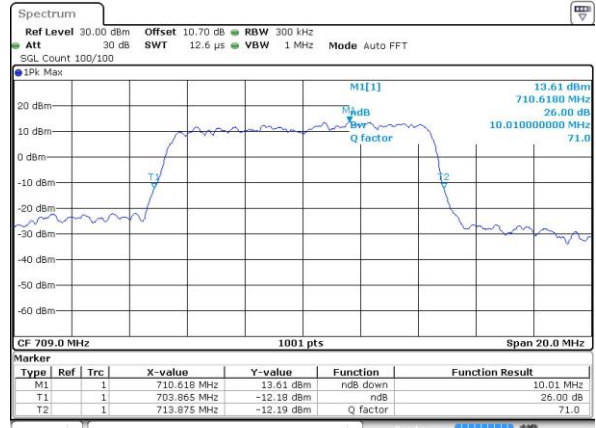


LTE Band 17

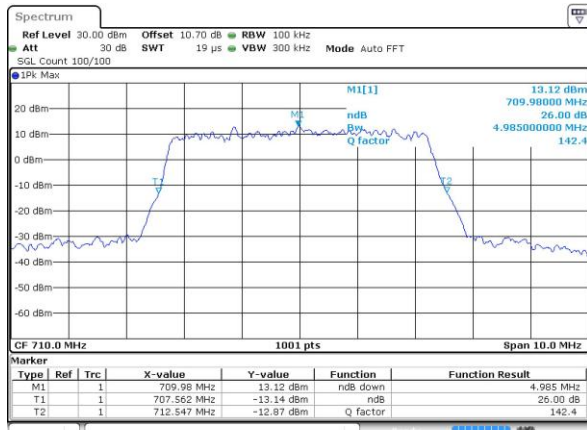
Lowest Channel / 5MHz / 64QAM



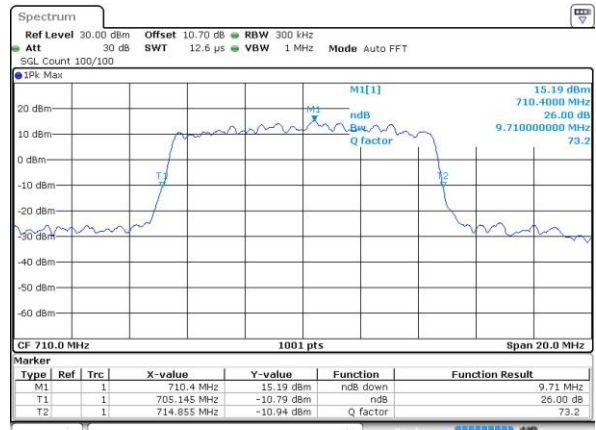
Lowest Channel / 10MHz / 64QAM



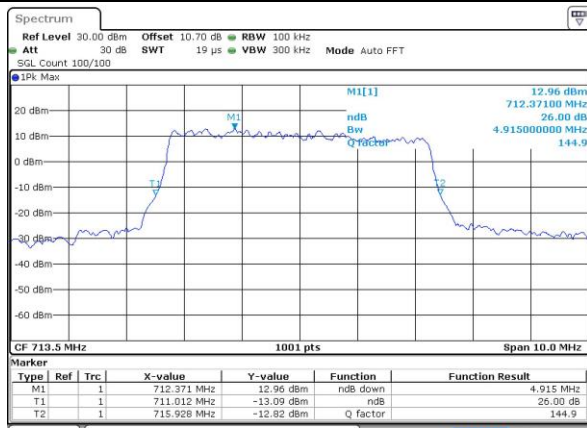
Middle Channel / 5MHz / 64QAM



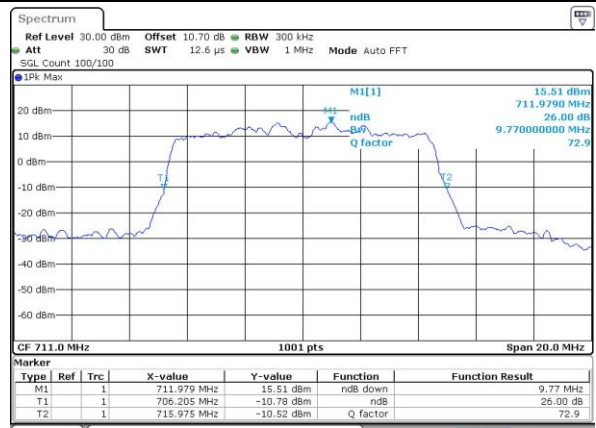
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM



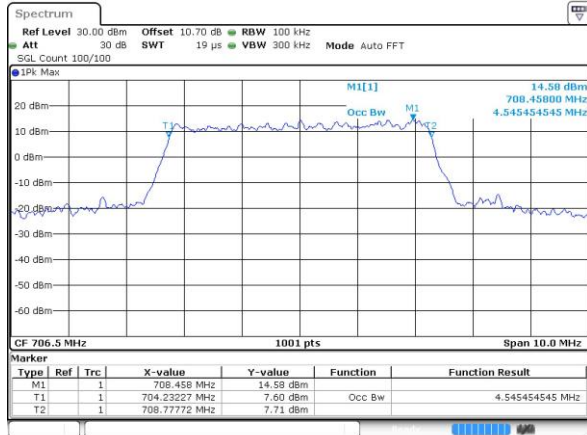
**Occupied Bandwidth**

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	-	-	-	-	4.55	4.49	8.99	8.95	-	-	-	-
Middle CH	-	-	-	-	4.49	4.46	8.99	8.87	-	-	-	-
Highest CH	-	-	-	-	4.51	4.49	8.97	8.97	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.54	-	8.99	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	8.95	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	8.89	-	-	-	-	-

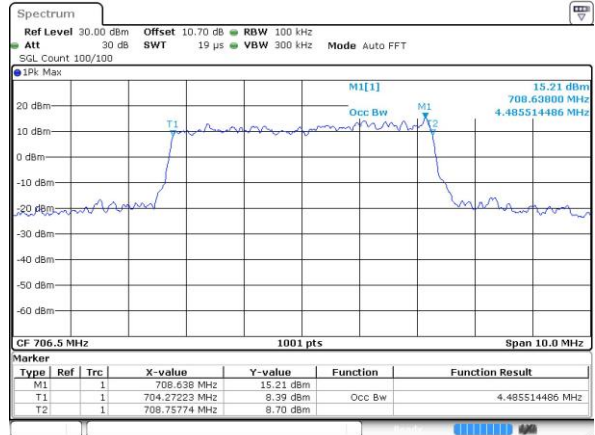


LTE Band 17

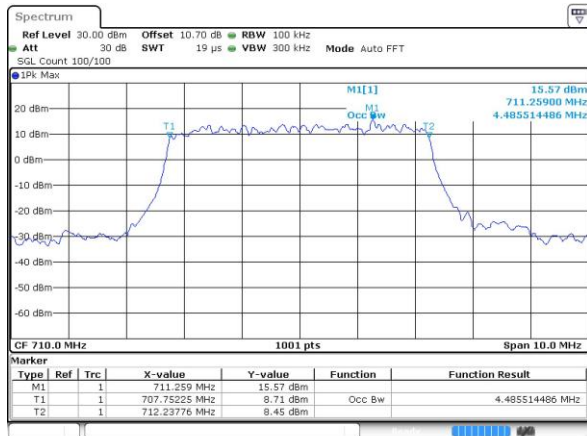
Lowest Channel / 5MHz / QPSK



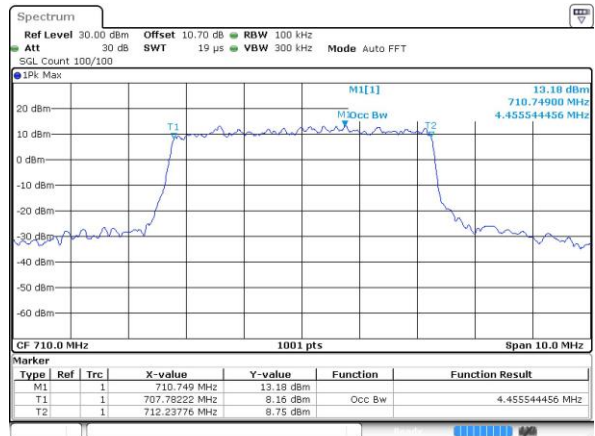
Lowest Channel / 5MHz / 16QAM



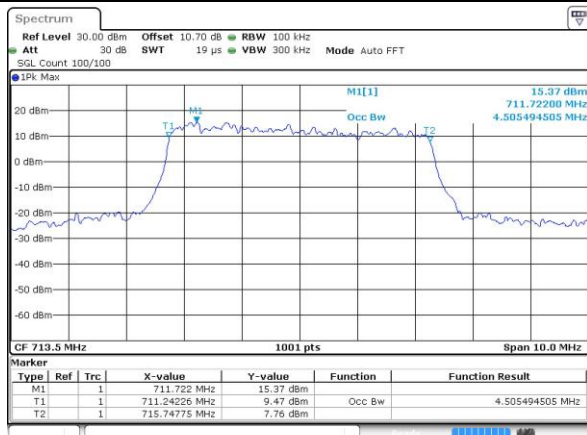
Middle Channel / 5MHz / QPSK



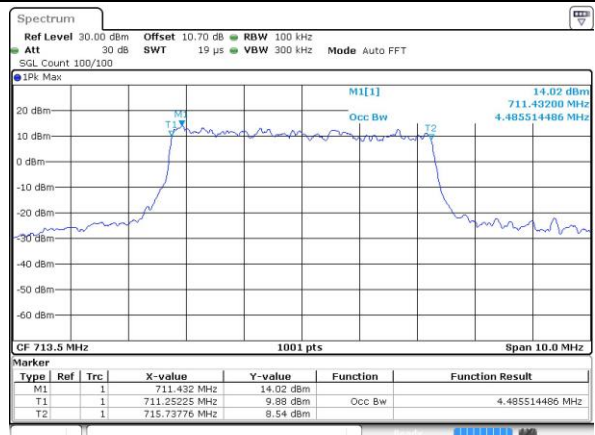
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



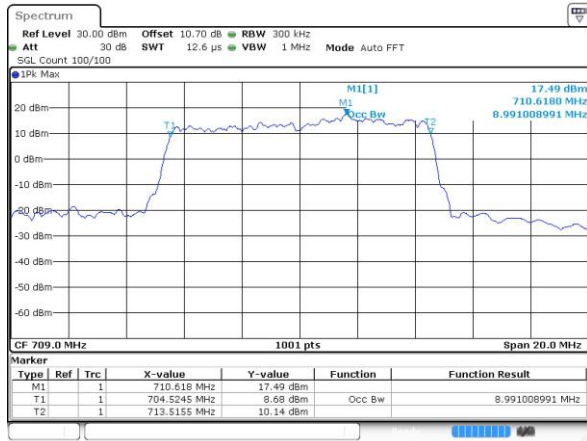
Highest Channel / 5MHz / 16QAM



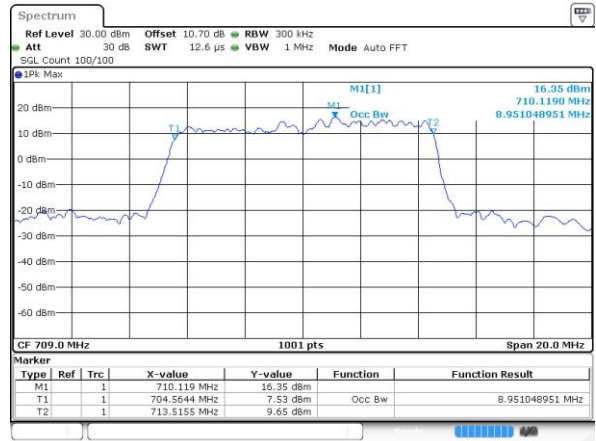


LTE Band 17

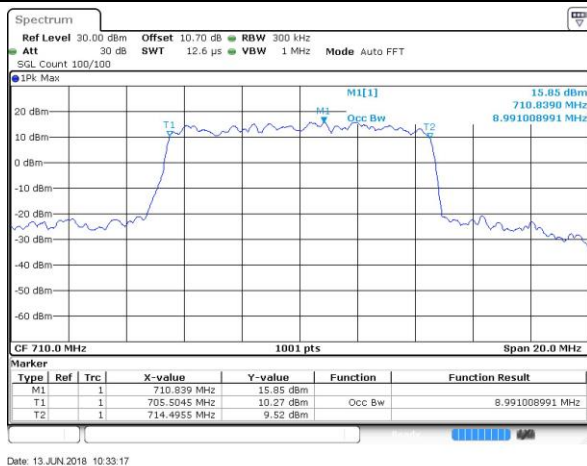
Lowest Channel / 10MHz / QPSK



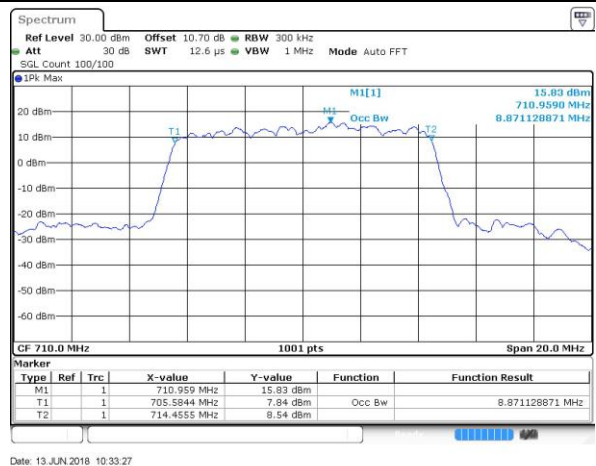
Lowest Channel / 10MHz / 16QAM



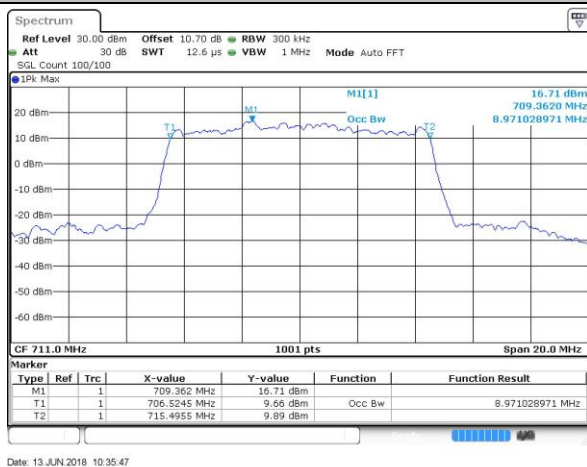
Middle Channel / 10MHz / QPSK



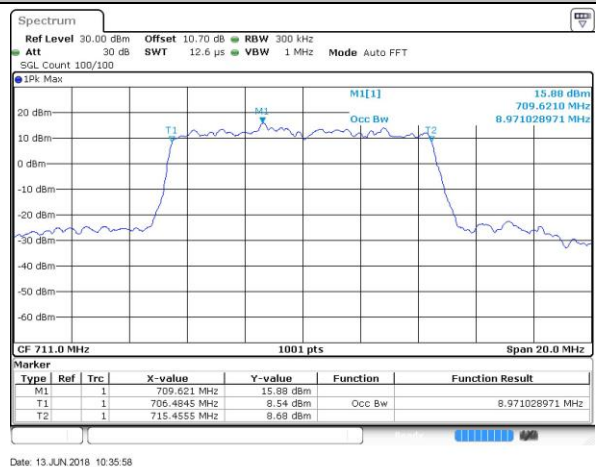
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



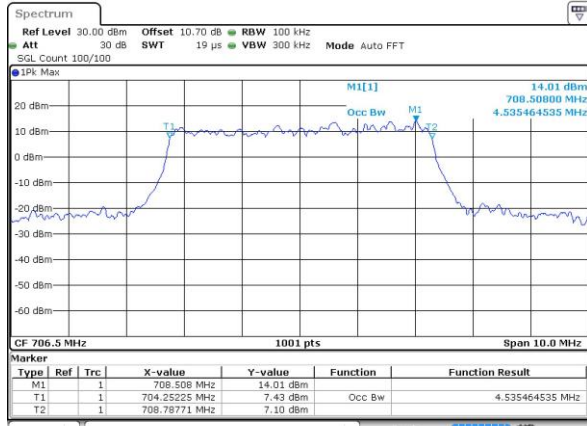
Highest Channel / 10MHz / 16QAM



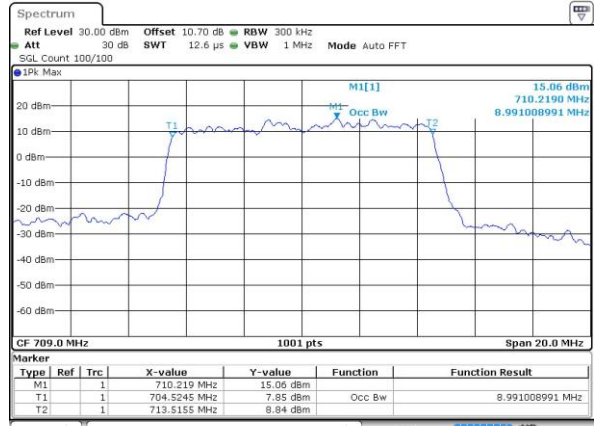


LTE Band 17

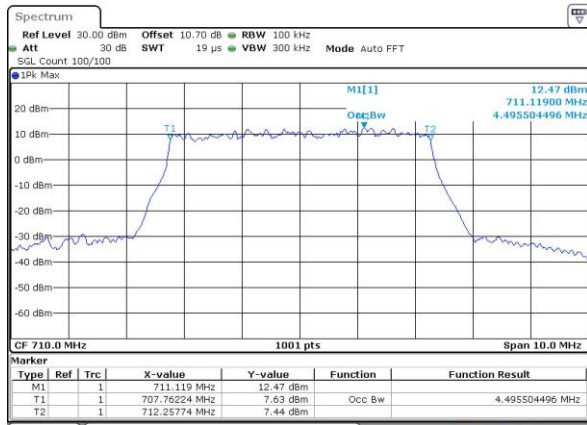
Lowest Channel / 5MHz / 64QAM



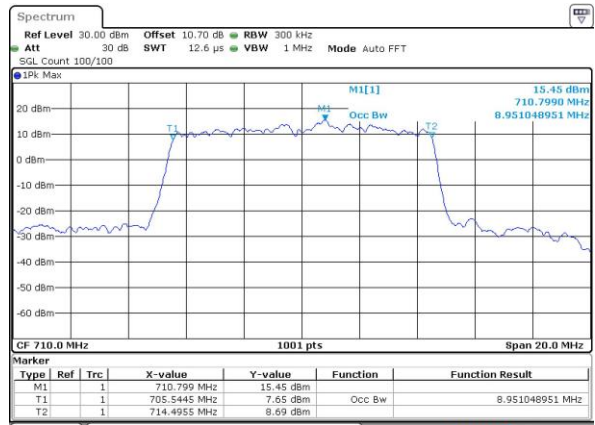
Lowest Channel / 10MHz / 64QAM



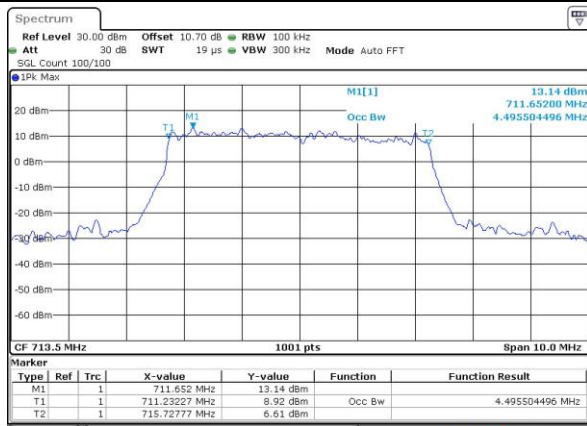
Middle Channel / 5MHz / 64QAM



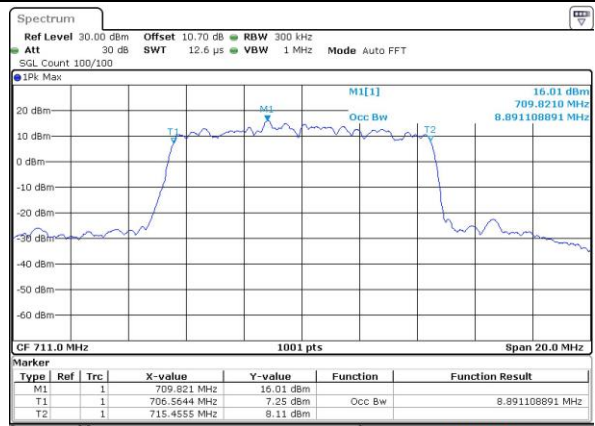
Middle Channel / 10MHz / 64QAM

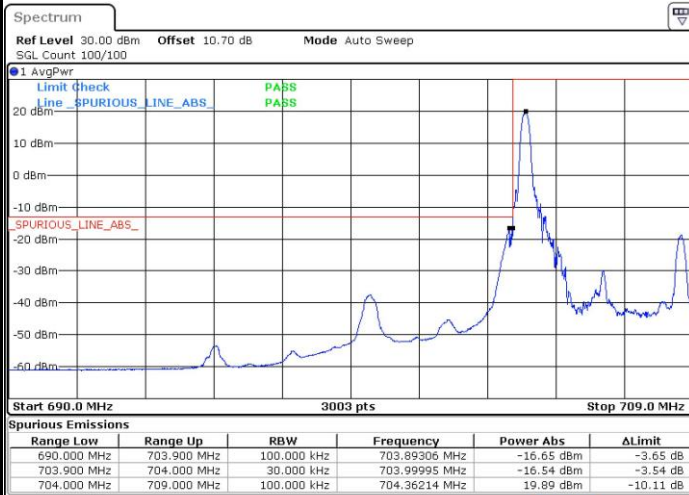
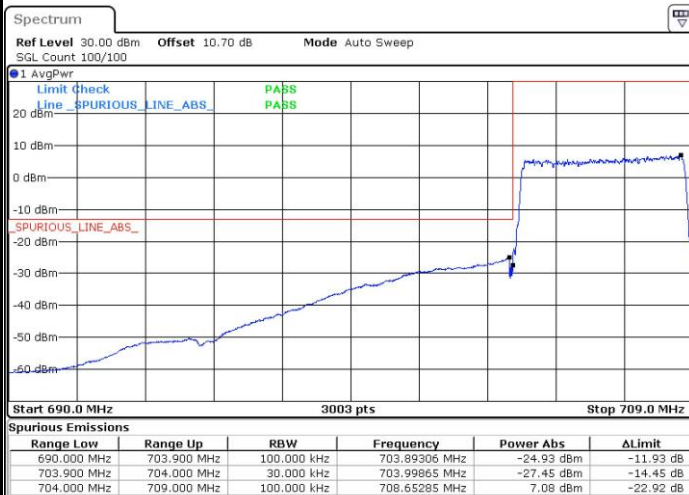


Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

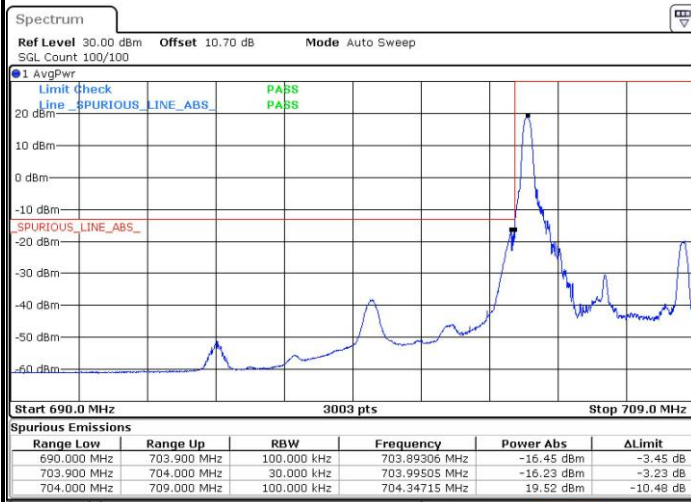


**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 17 / 5MHz / 16QAM

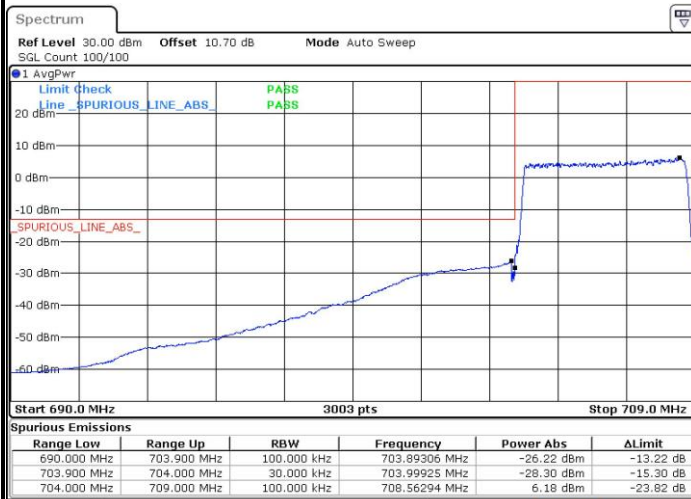
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



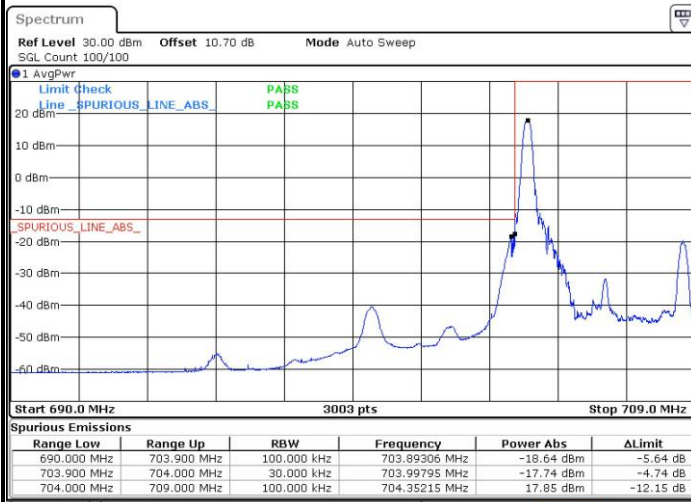
Highest Band Edge / Full RB





LTE Band 17 / 5MHz / 64QAM

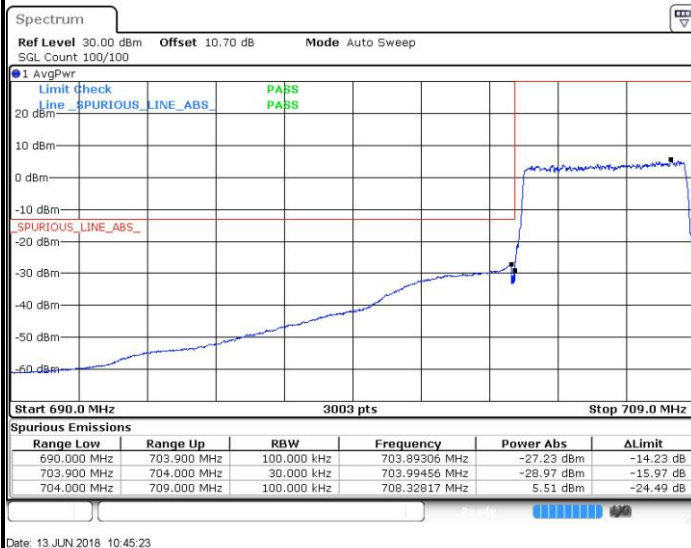
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

