

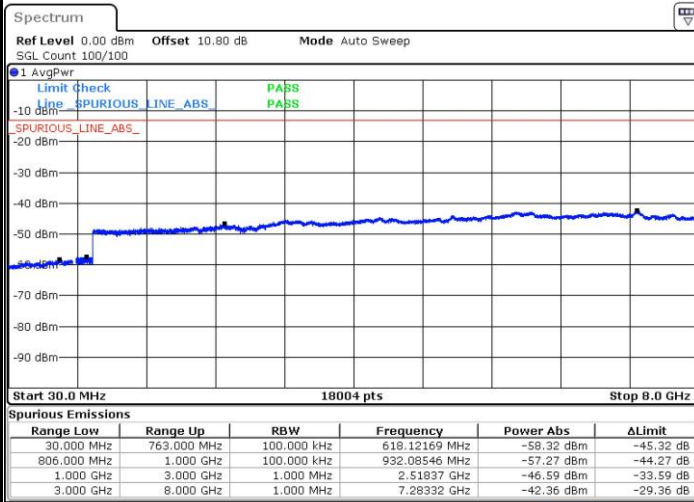


Conducted Spurious Emission



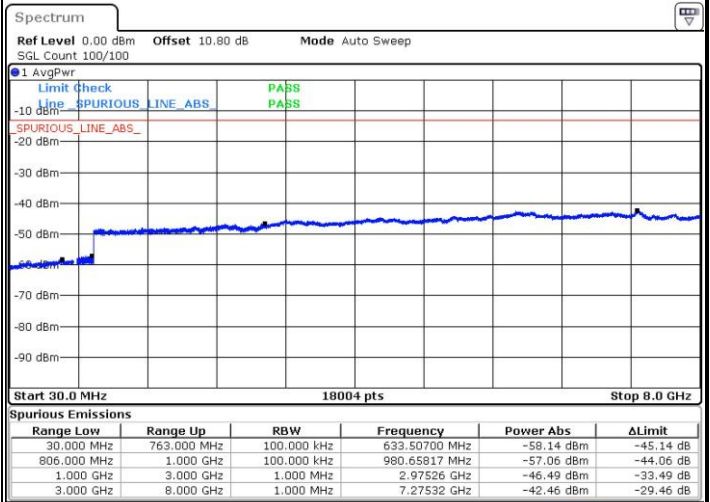
LTE Band 13 / 5MHz

Lowest Channel / QPSK



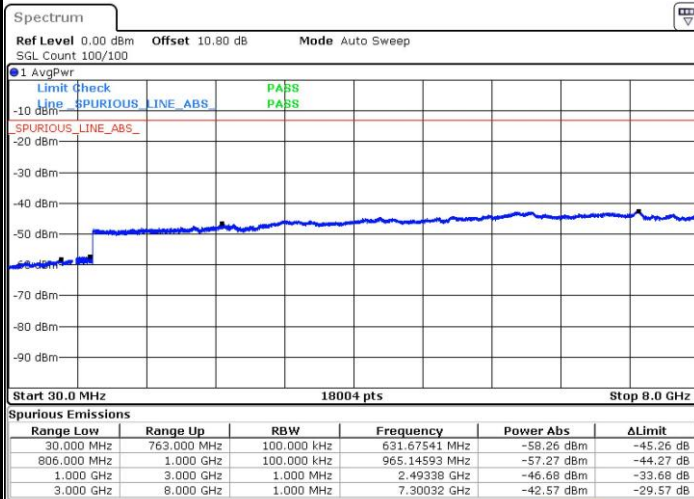
Date: 7.NOV.2018 19:42:13

Lowest Channel / 16QAM



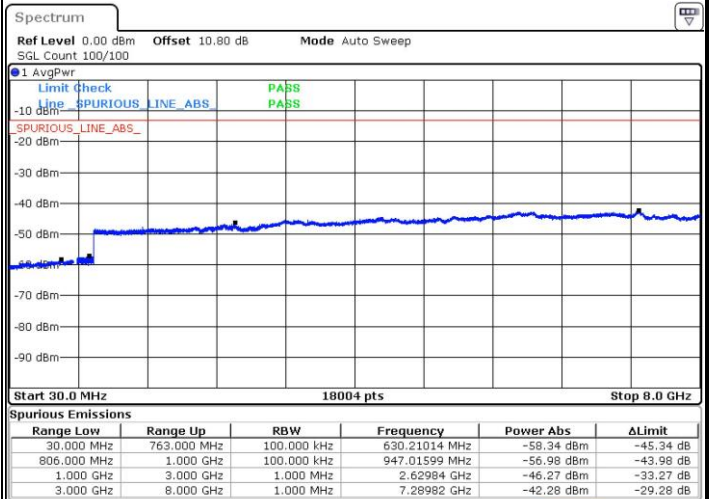
Date: 7.NOV.2018 19:42:52

Middle Channel / QPSK



Date: 7.NOV.2018 19:44:10

Middle Channel / 16QAM

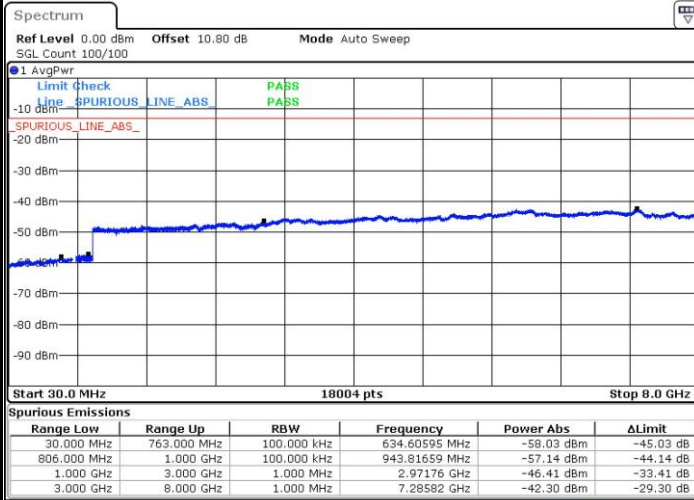


Date: 7.NOV.2018 19:43:31



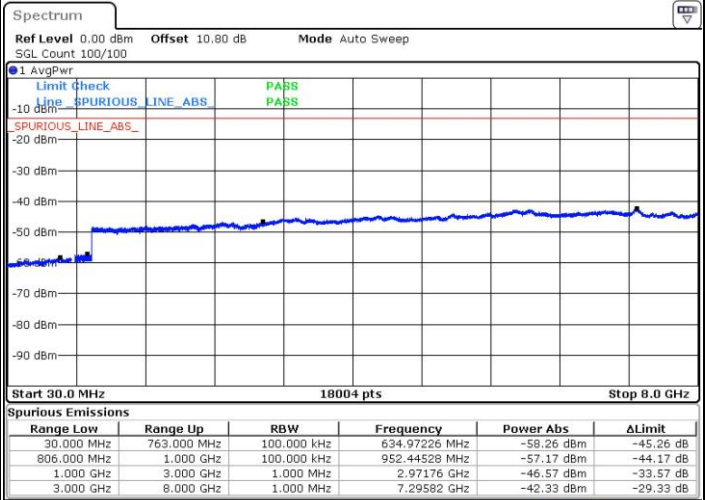
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 7.NOV.2018 19:52:59

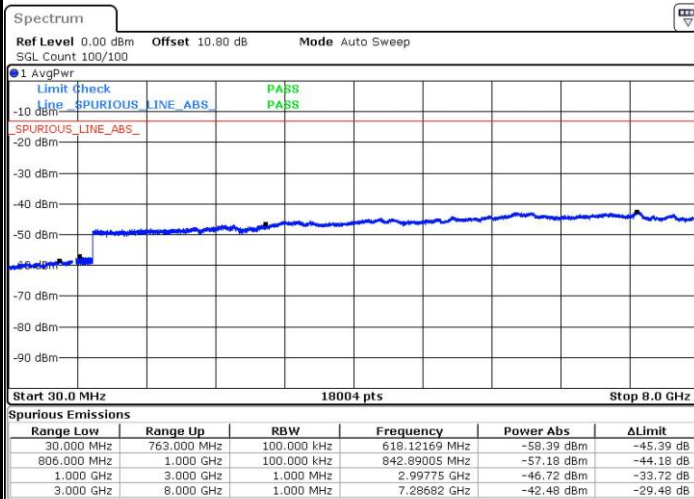
Highest Channel / 16QAM



Date: 7.NOV.2018 19:53:39

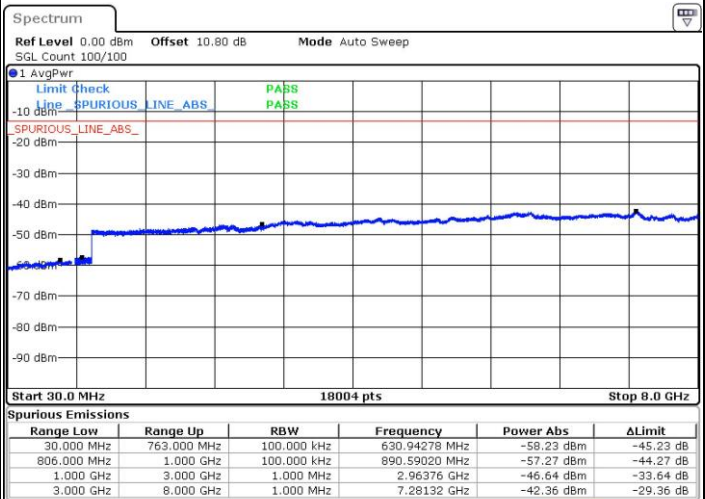
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 7.NOV.2018 20:15:24

Middle Channel / 16QAM

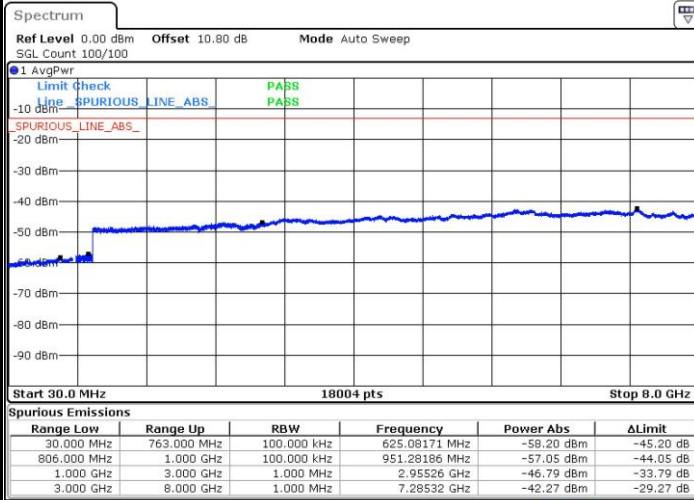


Date: 7.NOV.2018 20:14:45



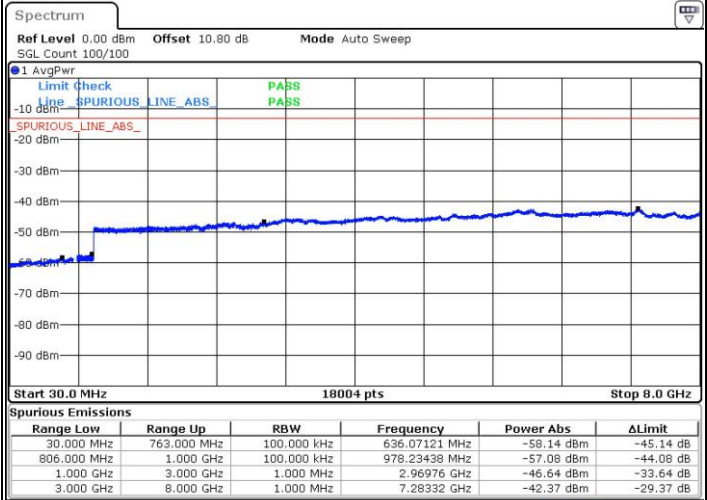
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



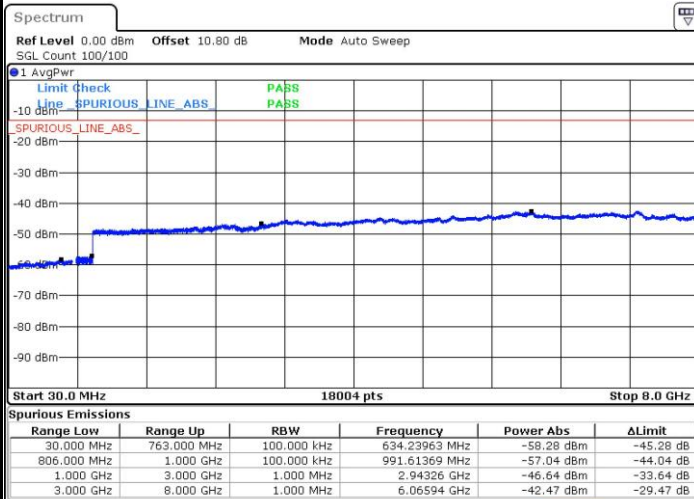
Date: 7.NOV.2018 19:58:00

Middle Channel / 64QAM



Date: 7.NOV.2018 19:58:39

Highest Channel / 64QAM

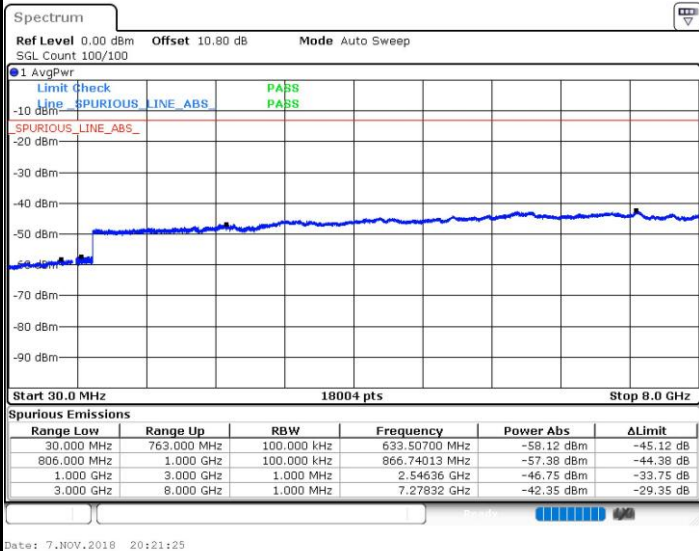


Date: 7.NOV.2018 20:03:23



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	0.0059	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0107	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0070	

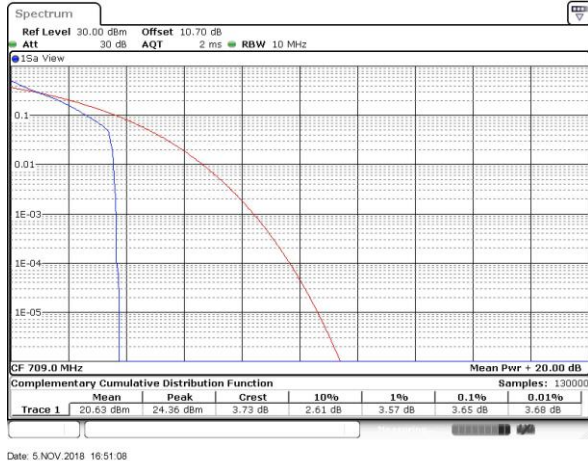
Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

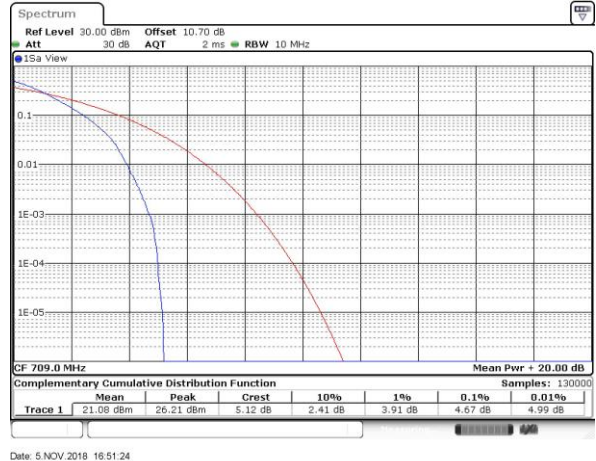
LTE Band 17

Peak-to-Average Ratio

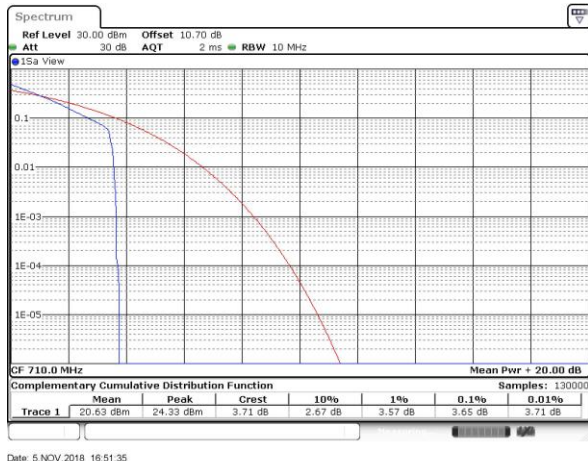
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	4.67	5.62	5.91	PASS
Middle CH	3.65	4.64	5.65	5.94	
Highest CH	3.68	4.64	5.57	6	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.52	6.55	-	-	PASS
Middle CH	6.35	6.35	-	-	
Highest CH	7.01	6.49	-	-	

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


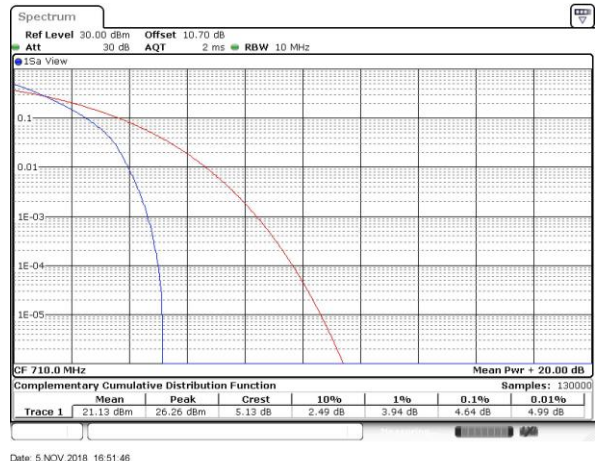
Date: 5 NOV 2018 16:51:08

Lowest Channel / Full RB


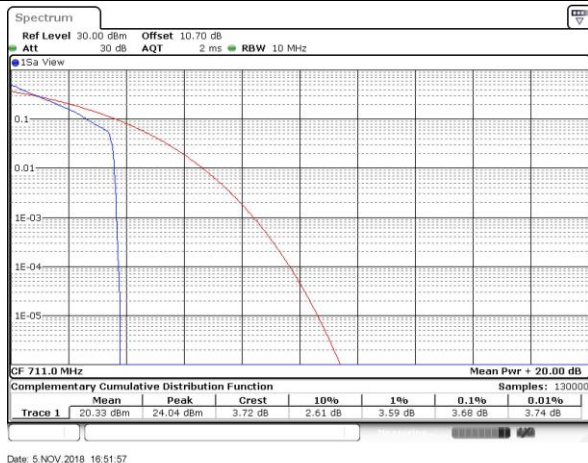
Date: 5 NOV 2018 16:51:24

Middle Channel / 1RB


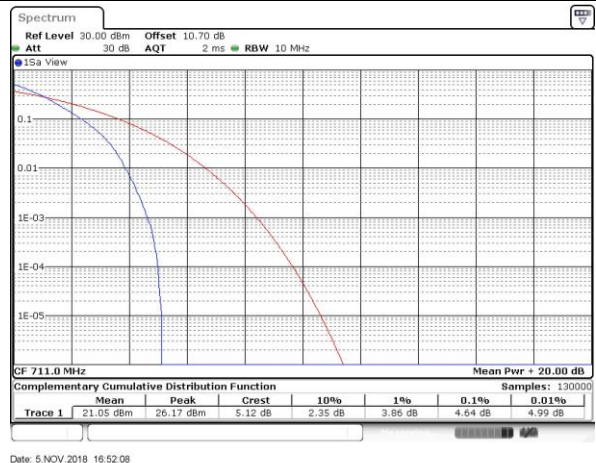
Date: 5 NOV 2018 16:51:35

Middle Channel / Full RB


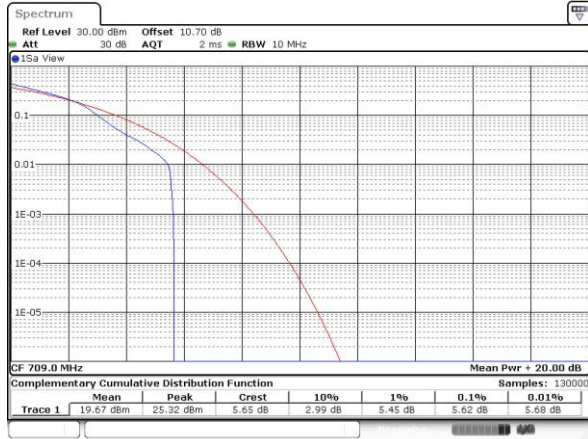
Date: 5 NOV 2018 16:51:46

Highest Channel / 1RB


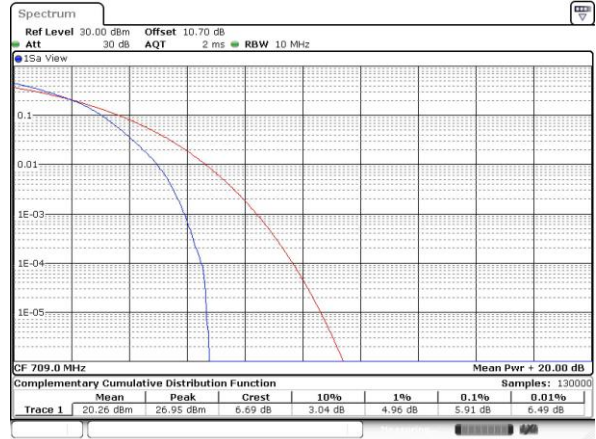
Date: 5 NOV 2018 16:51:57

Highest Channel / Full RB


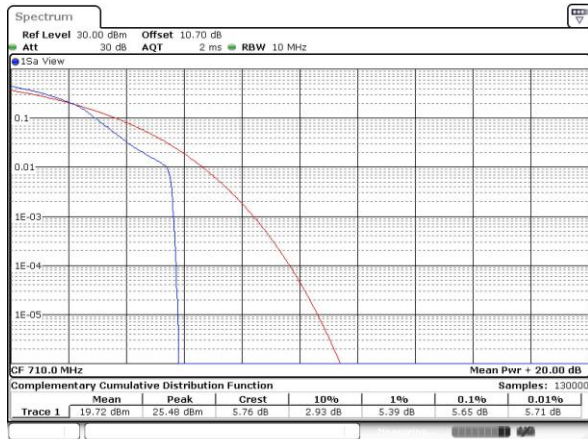
Date: 5 NOV 2018 16:52:08

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


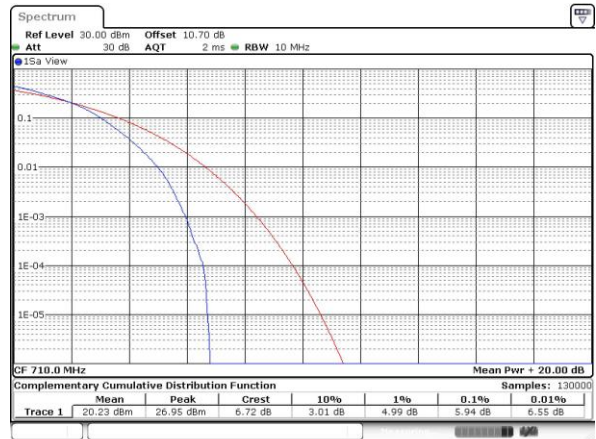
Date: 5 NOV 2018 16:55:52

Lowest Channel / Full RB


Date: 5 NOV 2018 16:49:09

Middle Channel / 1RB


Date: 5 NOV 2018 16:49:19

Middle Channel / Full RB


Date: 5 NOV 2018 16:50:19

Highest Channel / 1RB


Date: 5 NOV 2018 16:50:30

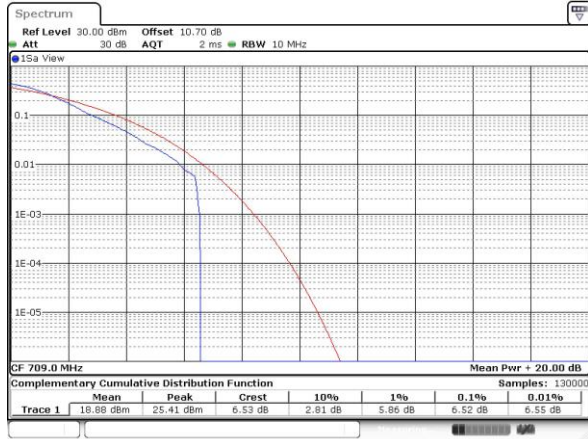
Highest Channel / Full RB


Date: 5 NOV 2018 16:50:47

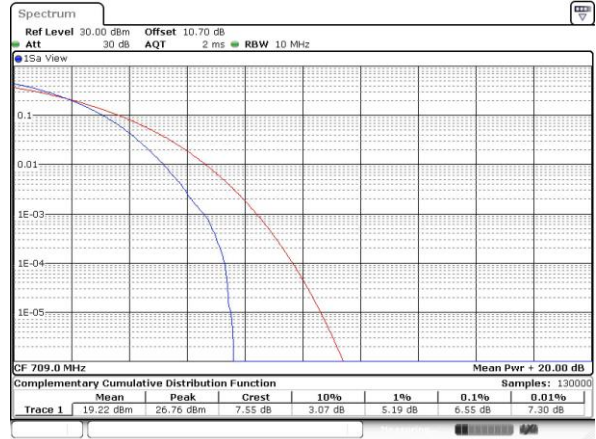


LTE Band 17 / 10MHz / 64QAM

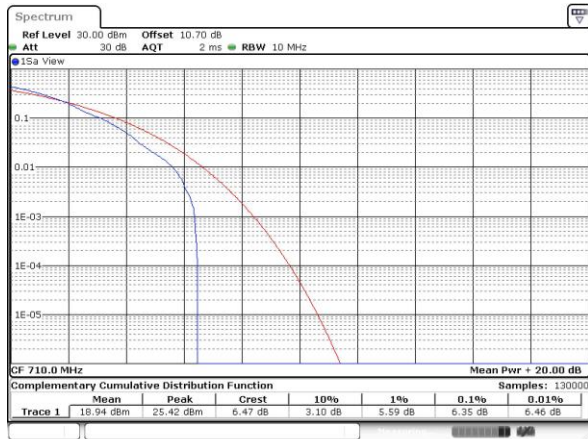
Lowest Channel / 1RB



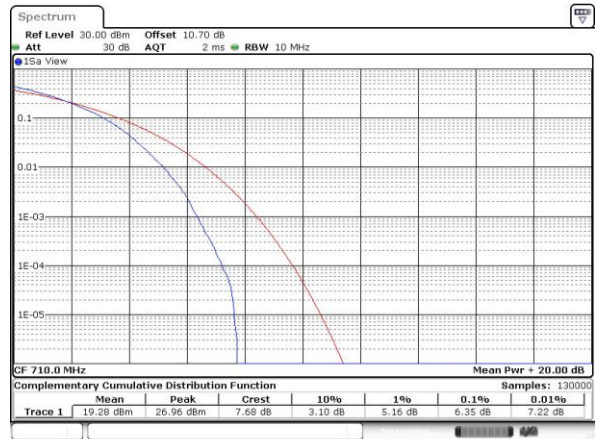
Lowest Channel / Full RB



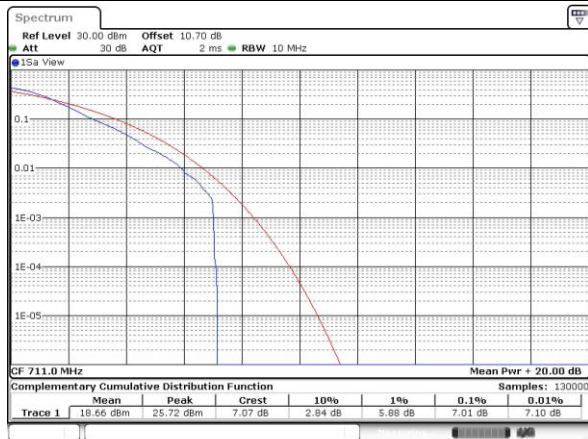
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



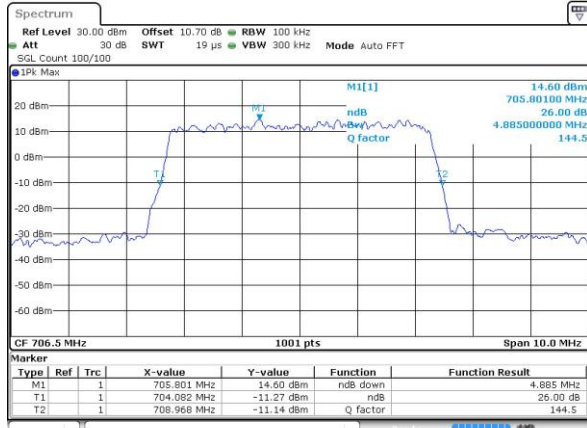
**26dB Bandwidth**

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	-	-	-	-	4.89	4.87	9.79	9.91	-	-	-	-
Middle CH	-	-	-	-	4.88	4.93	9.71	9.65	-	-	-	-
Highest CH	-	-	-	-	4.93	4.90	9.93	9.79	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.87	-	9.71	-	-	-	-	-
Middle CH	-	-	-	-	4.89	-	9.69	-	-	-	-	-
Highest CH	-	-	-	-	4.87	-	9.69	-	-	-	-	-

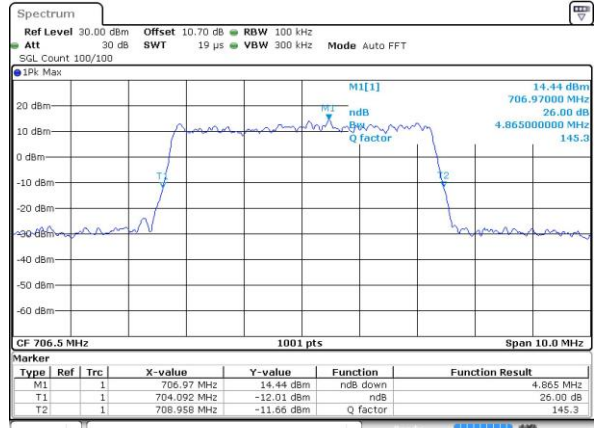


LTE Band 17

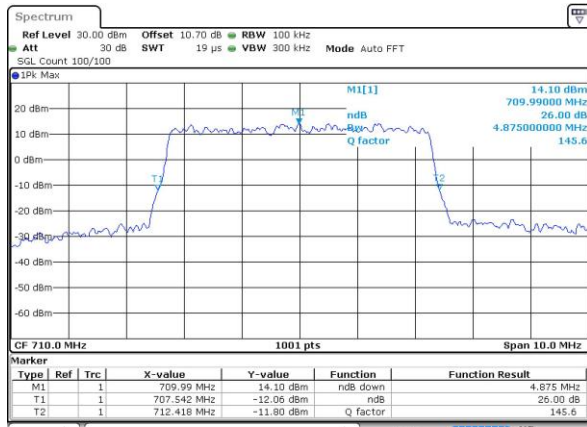
Lowest Channel / 5MHz / QPSK



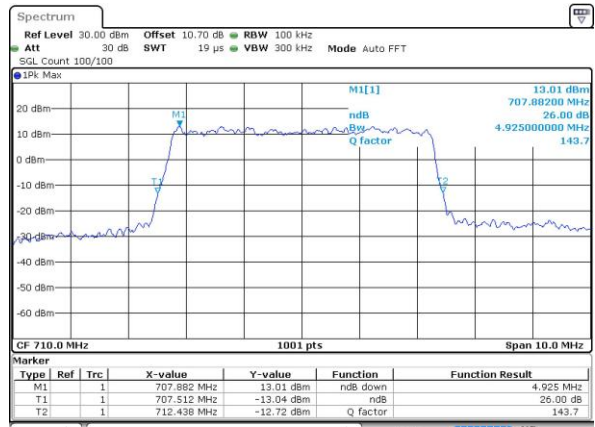
Lowest Channel / 5MHz / 16QAM



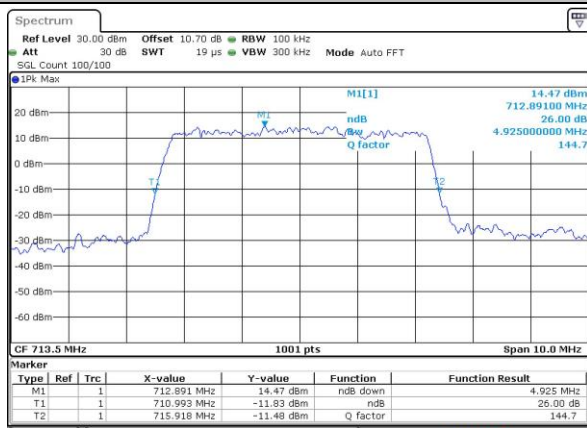
Middle Channel / 5MHz / QPSK



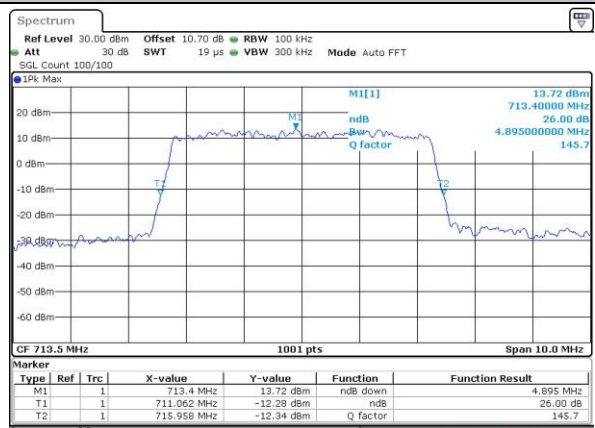
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



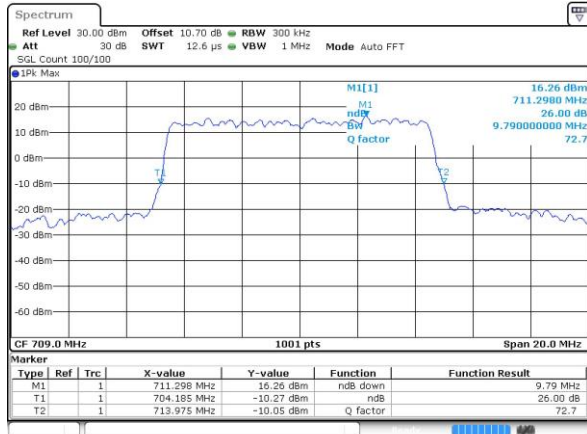
Highest Channel / 5MHz / 16QAM





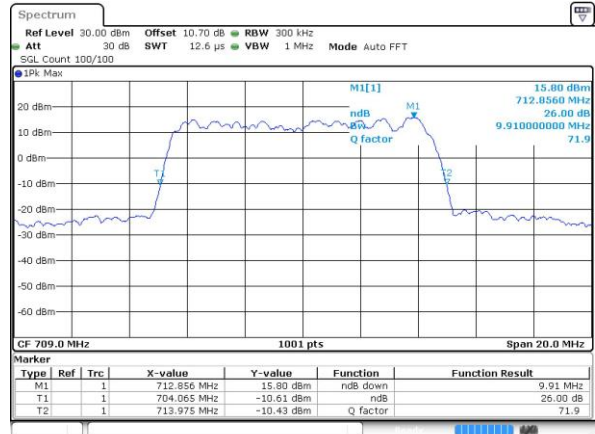
LTE Band 17

Lowest Channel / 10MHz / QPSK



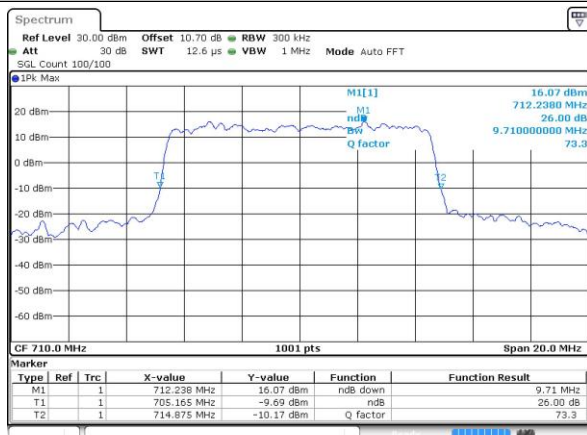
Date: 5 NOV 2018 15:47:41

Lowest Channel / 10MHz / 16QAM



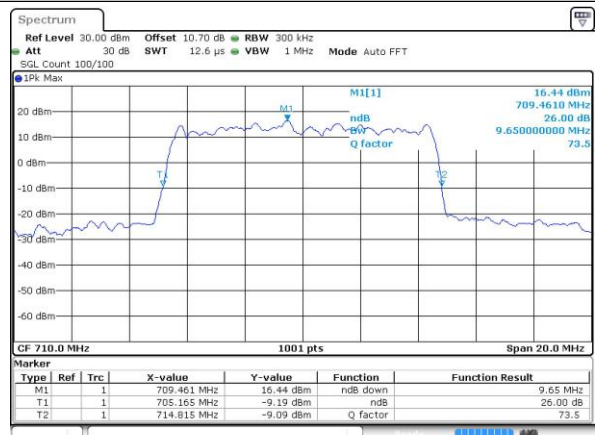
Date: 5 NOV 2018 15:47:52

Middle Channel / 10MHz / QPSK



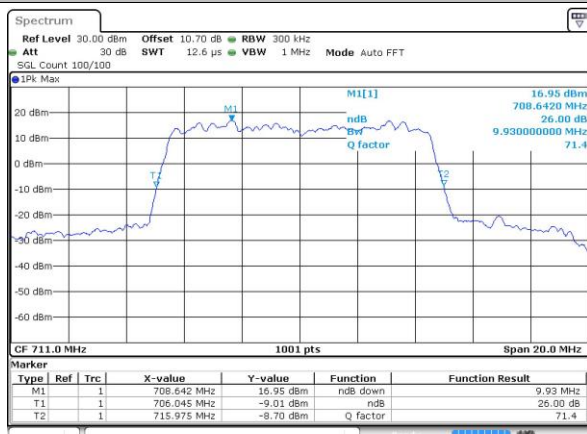
Date: 5 NOV 2018 15:53:47

Middle Channel / 10MHz / 16QAM



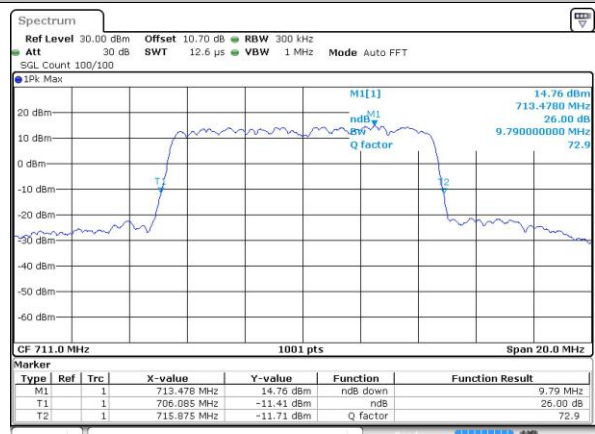
Date: 5 NOV 2018 15:53:58

Highest Channel / 10MHz / QPSK



Date: 5 NOV 2018 15:55:53

Highest Channel / 10MHz / 16QAM

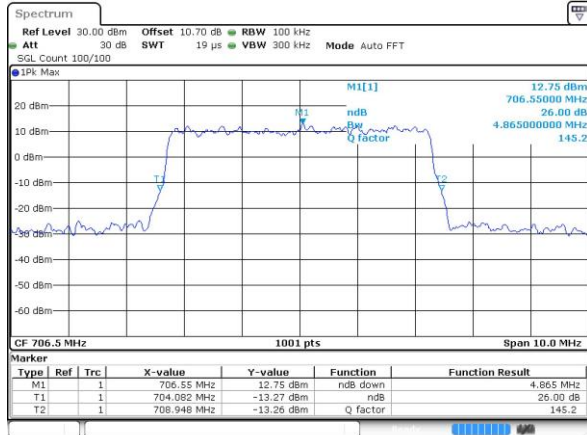


Date: 5 NOV 2018 15:56:04

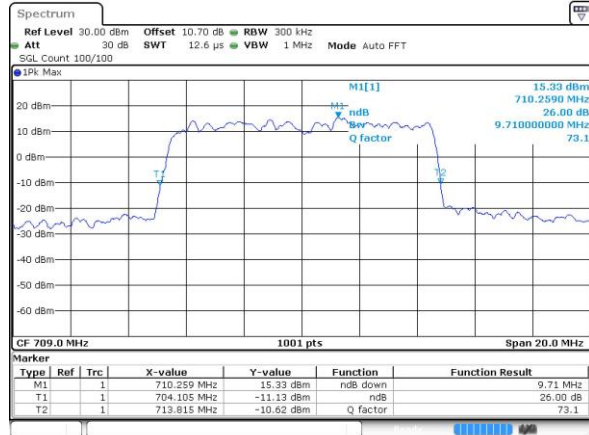


LTE Band 17

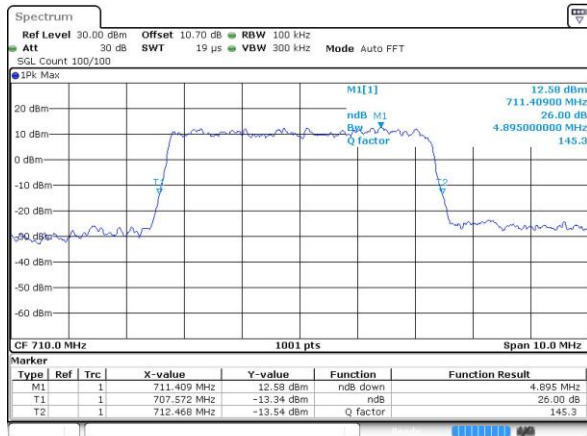
Lowest Channel / 5MHz / 64QAM



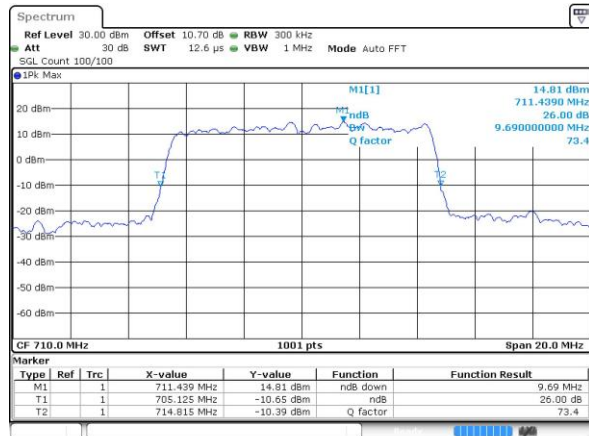
Lowest Channel / 10MHz / 64QAM



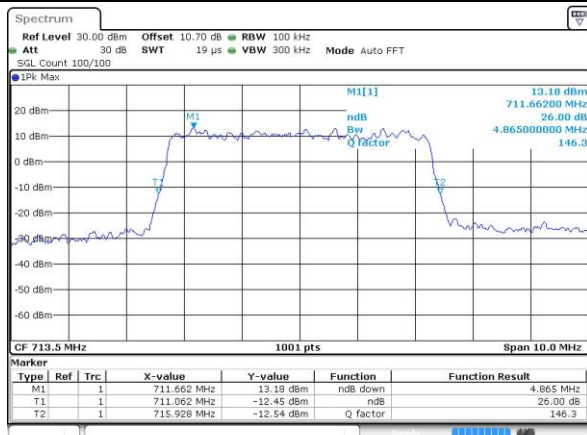
Middle Channel / 5MHz / 64QAM



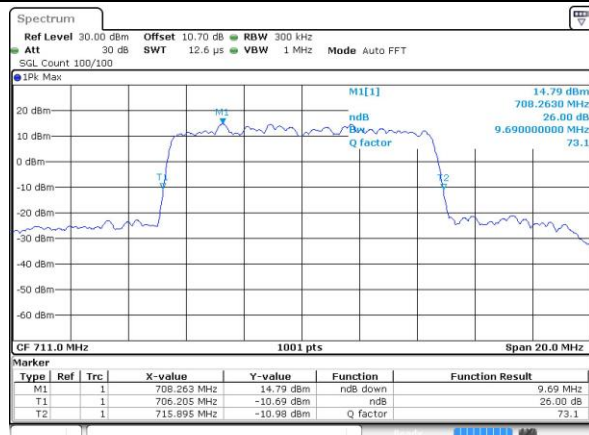
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM



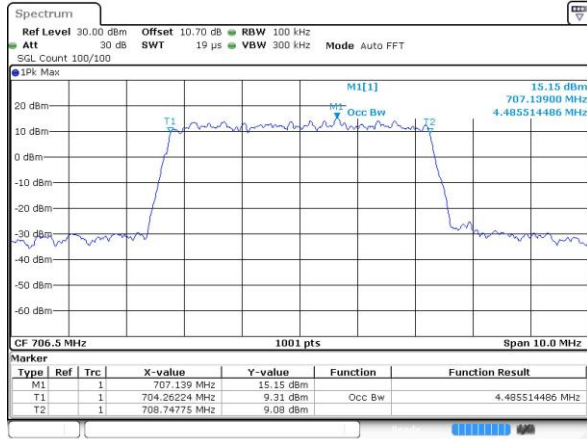
**Occupied Bandwidth**

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	-	-	-	-	4.49	4.48	9.11	9.01	-	-	-	-
Middle CH	-	-	-	-	4.5	4.47	8.99	9.05	-	-	-	-
Highest CH	-	-	-	-	4.48	4.5	8.97	9.01	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.53	-	8.97	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	8.99	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	9.03	-	-	-	-	-

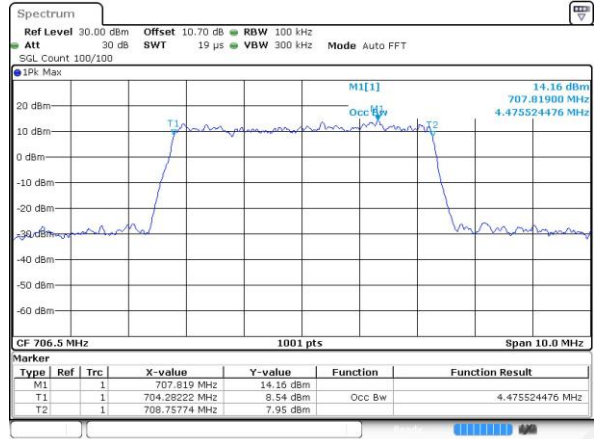


LTE Band 17

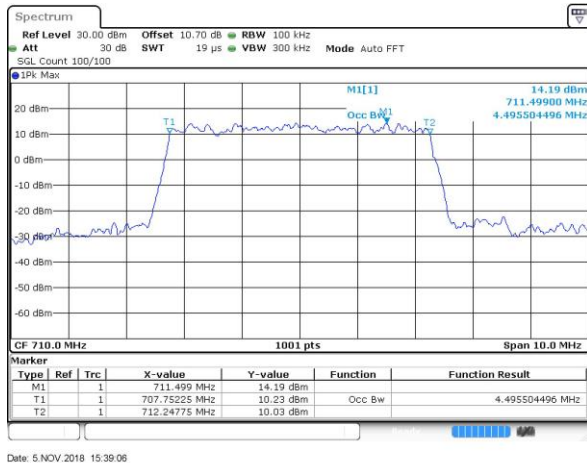
Lowest Channel / 5MHz / QPSK



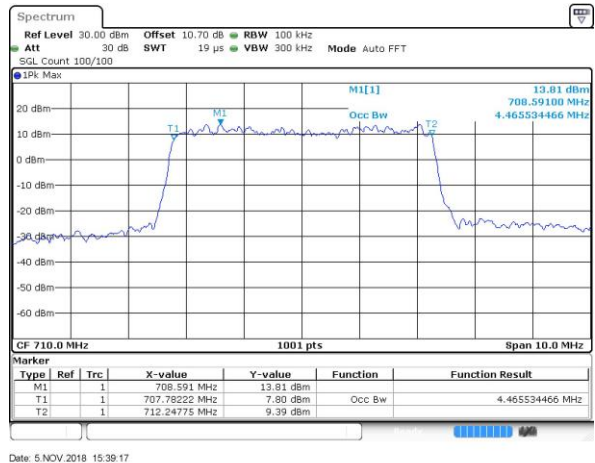
Lowest Channel / 5MHz / 16QAM



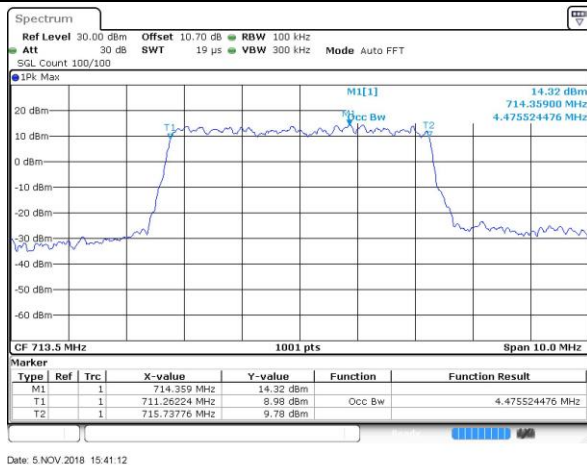
Middle Channel / 5MHz / QPSK



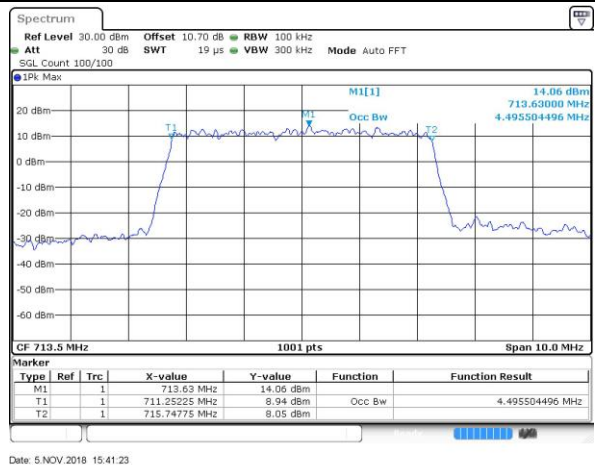
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



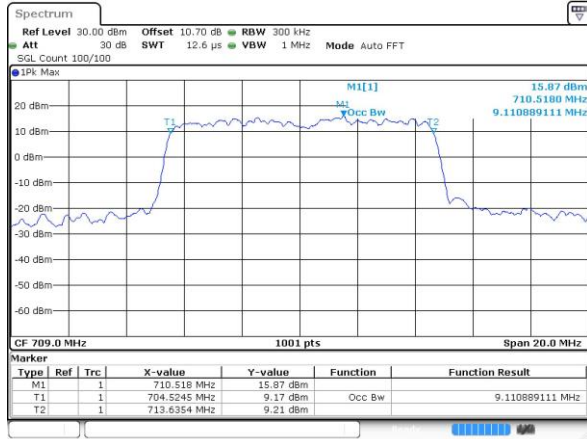
Highest Channel / 5MHz / 16QAM



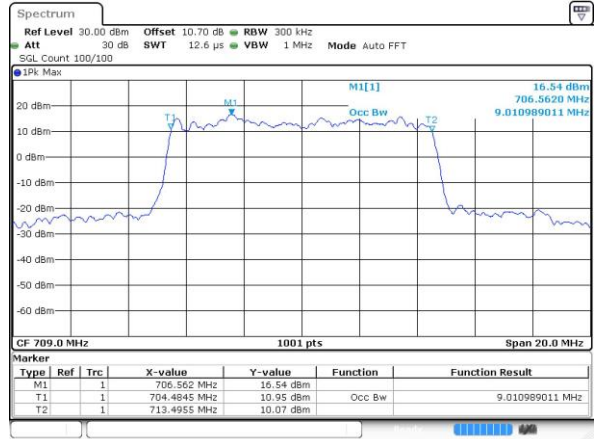


LTE Band 17

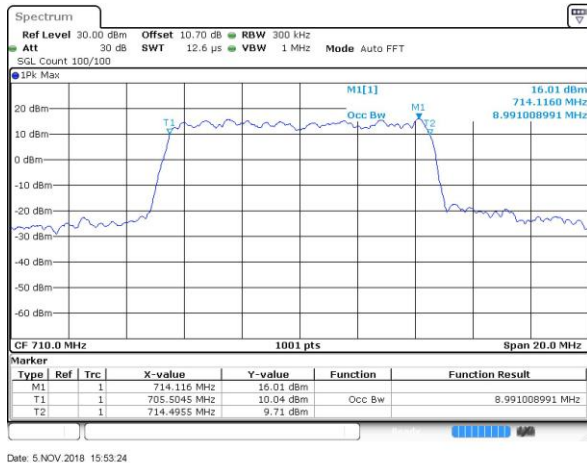
Lowest Channel / 10MHz / QPSK



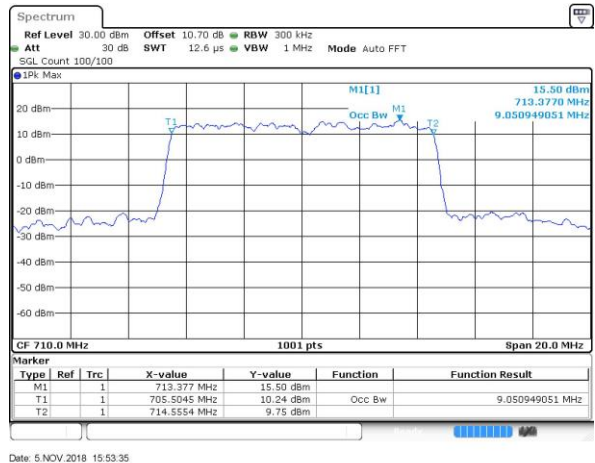
Lowest Channel / 10MHz / 16QAM



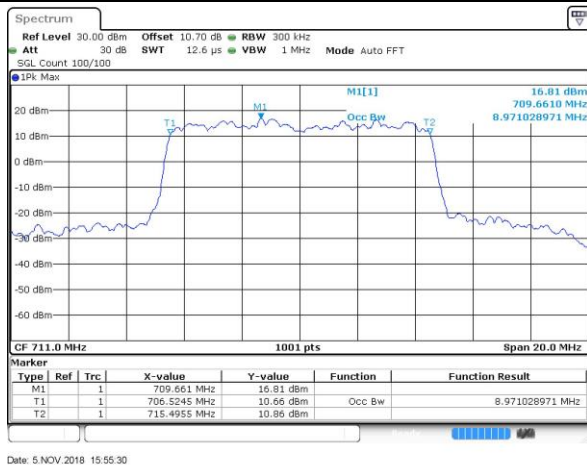
Middle Channel / 10MHz / QPSK



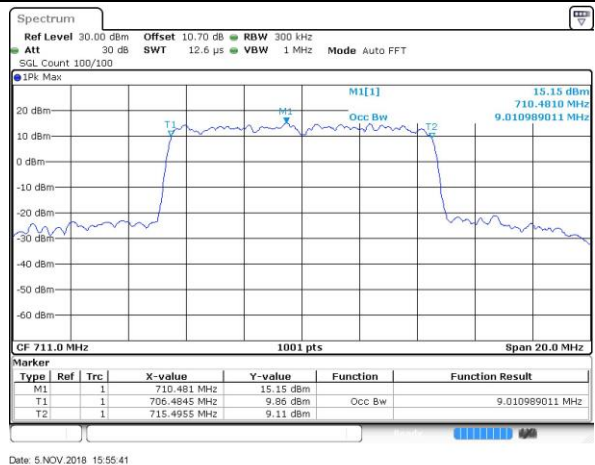
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



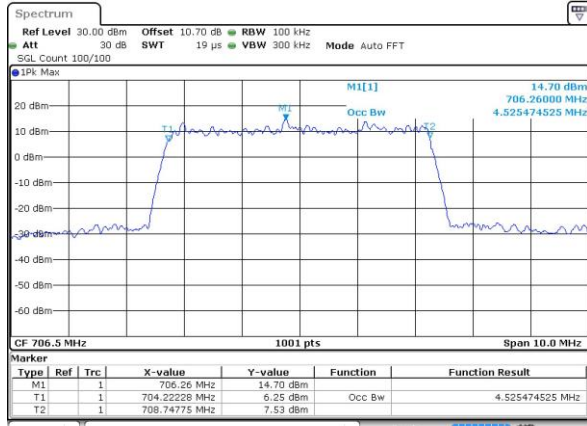
Highest Channel / 10MHz / 16QAM





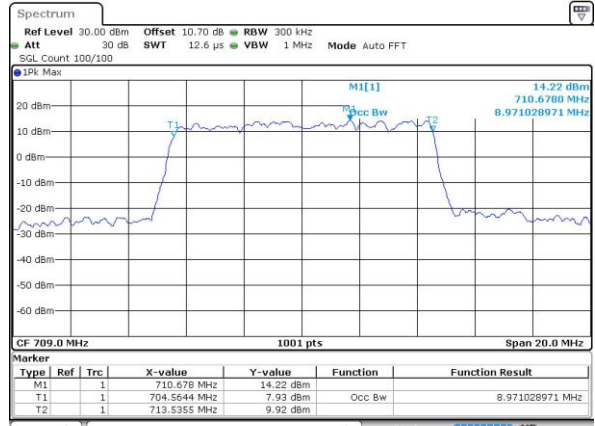
LTE Band 17

Lowest Channel / 5MHz / 64QAM



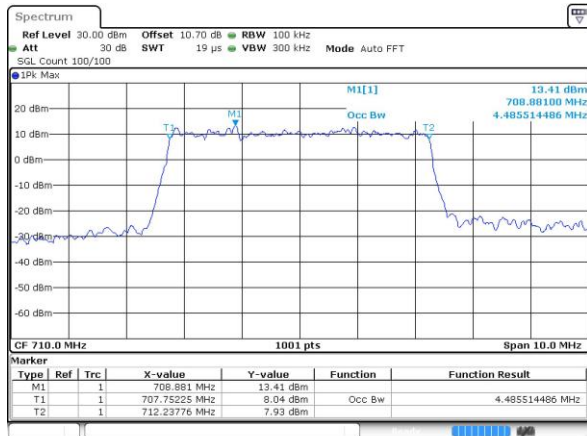
Date: 5 NOV 2018 16:01:36

Lowest Channel / 10MHz / 64QAM



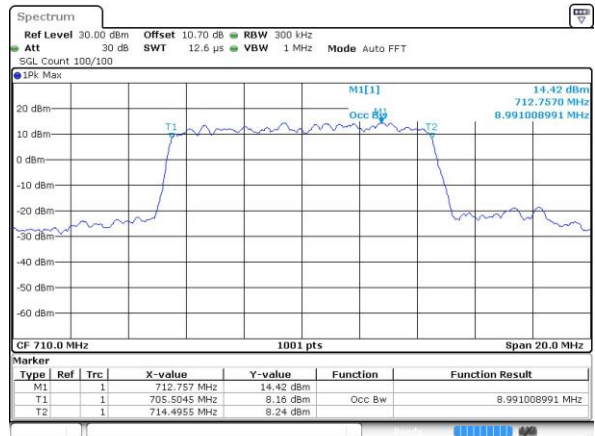
Date: 5 NOV 2018 16:08:45

Middle Channel / 5MHz / 64QAM



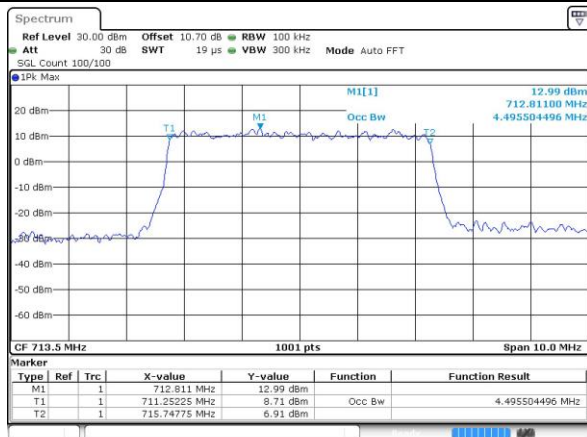
Date: 5 NOV 2018 16:04:39

Middle Channel / 10MHz / 64QAM



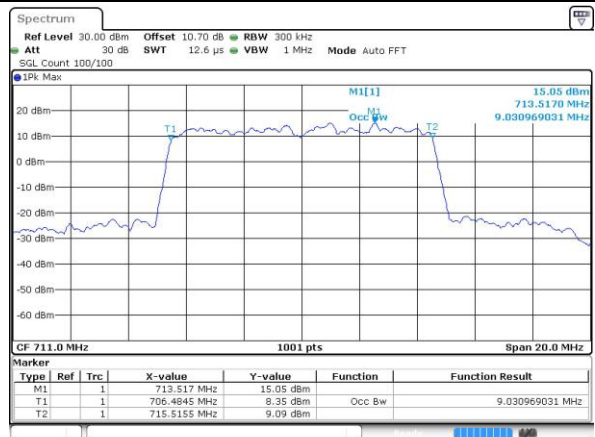
Date: 5 NOV 2018 16:11:48

Highest Channel / 5MHz / 64QAM



Date: 5 NOV 2018 16:05:42

Highest Channel / 10MHz / 64QAM



Date: 5 NOV 2018 16:12:51

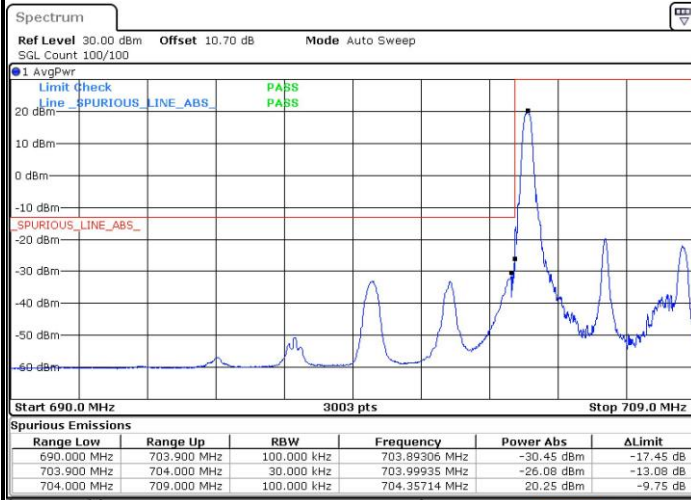


Conducted Band Edge

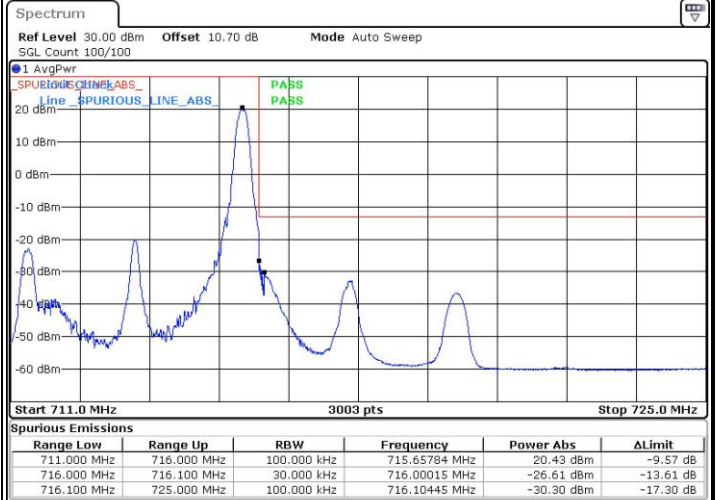


LTE Band 17 / 5MHz / QPSK

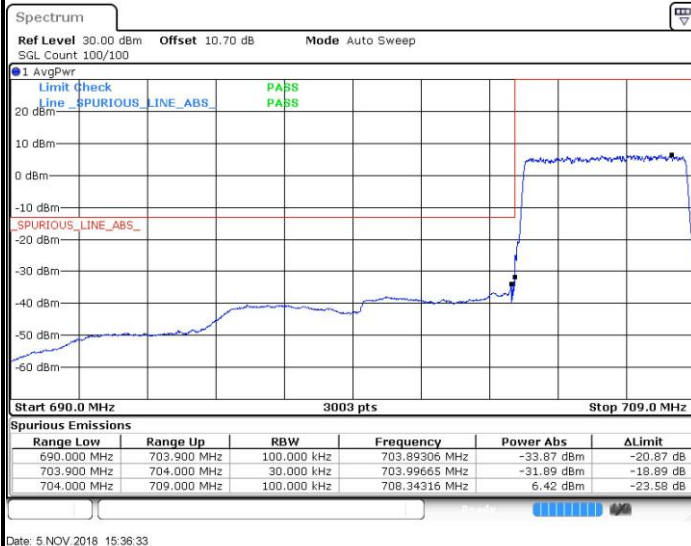
Lowest Band Edge / 1 RB



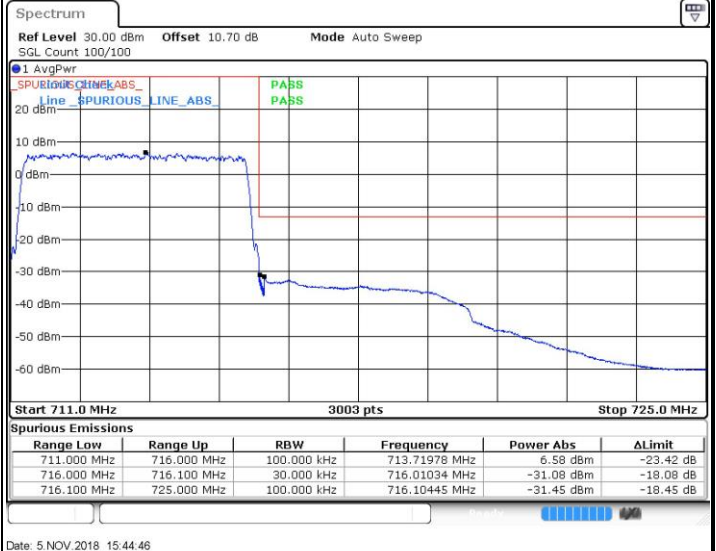
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



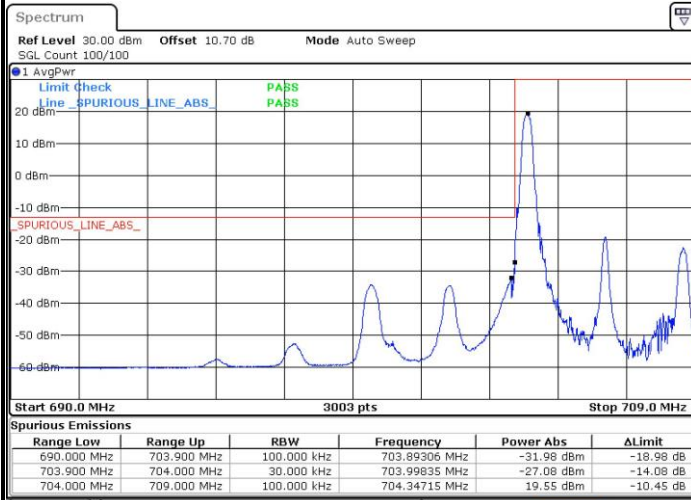
Highest Band Edge / Full RB



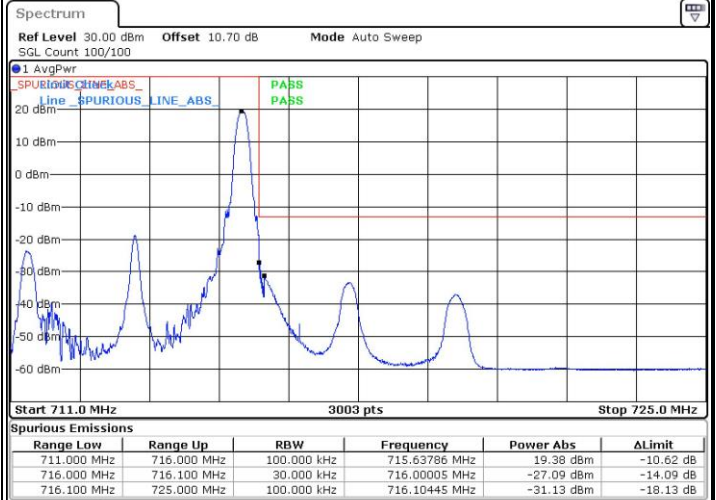


LTE Band 17 / 5MHz / 16QAM

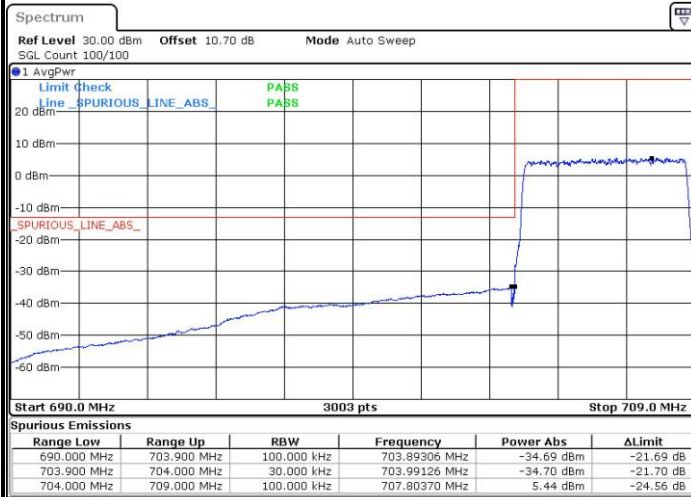
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



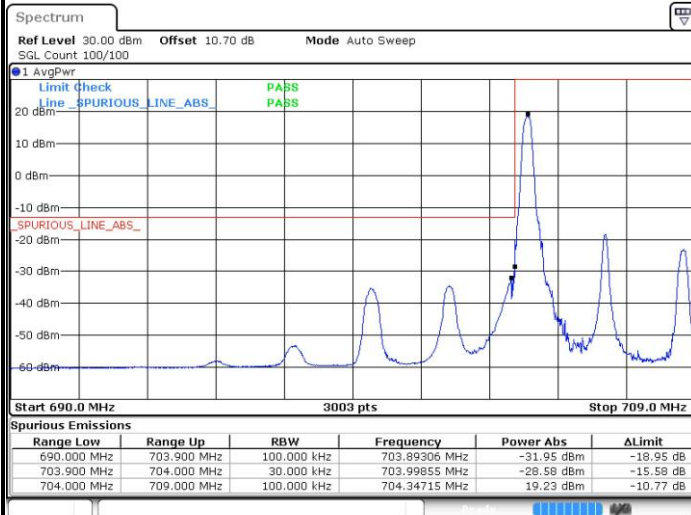
Highest Band Edge / Full RB



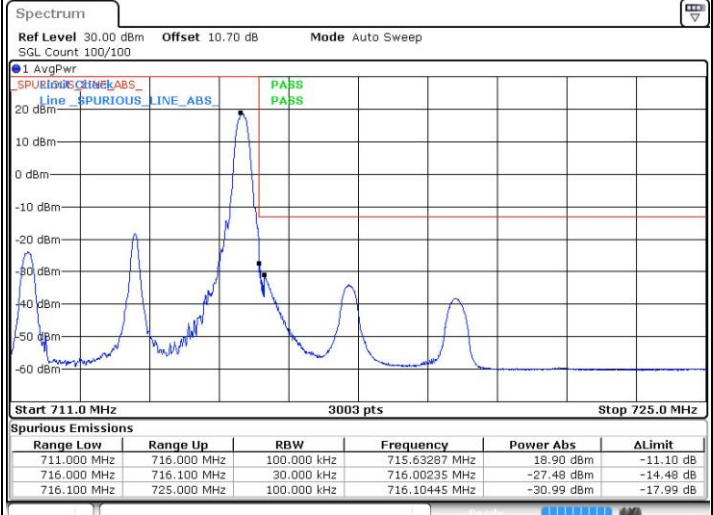


LTE Band 17 / 5MHz / 64QAM

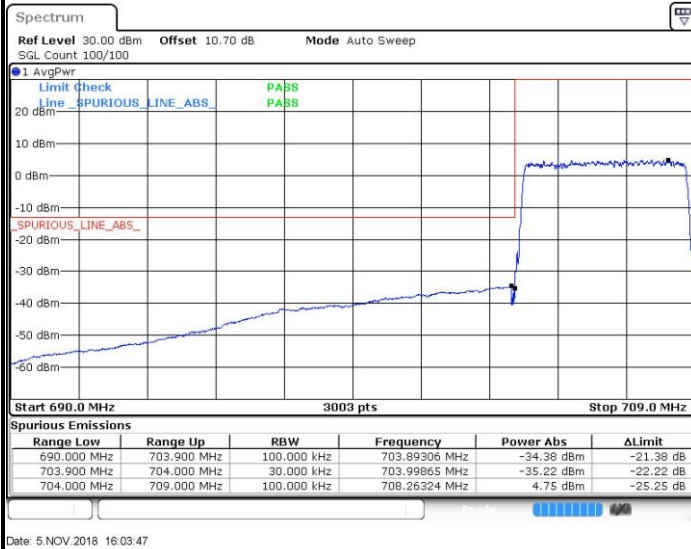
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

