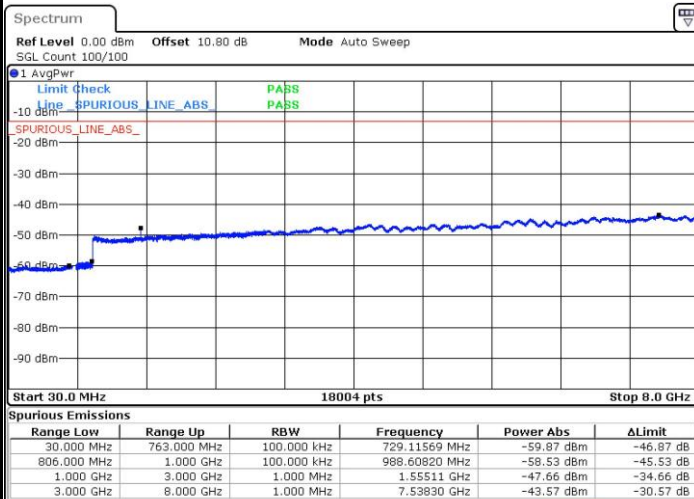




Conducted Spurious Emission

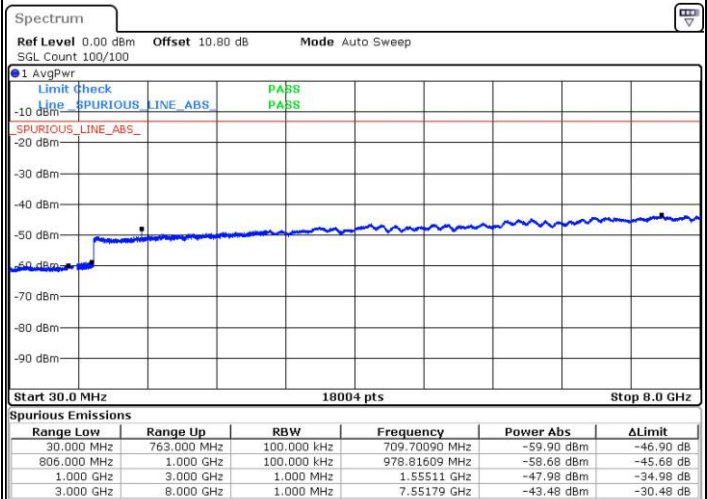
LTE Band 13 / 5MHz

Lowest Channel / QPSK



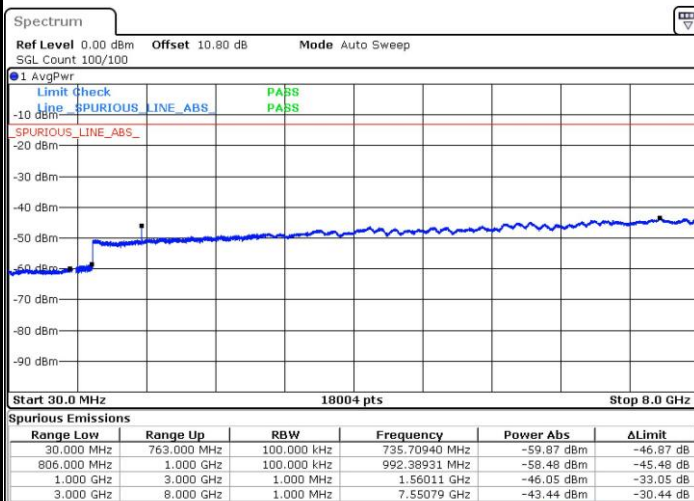
Date: 17.OCT.2018 13:55:35

Lowest Channel / 16QAM



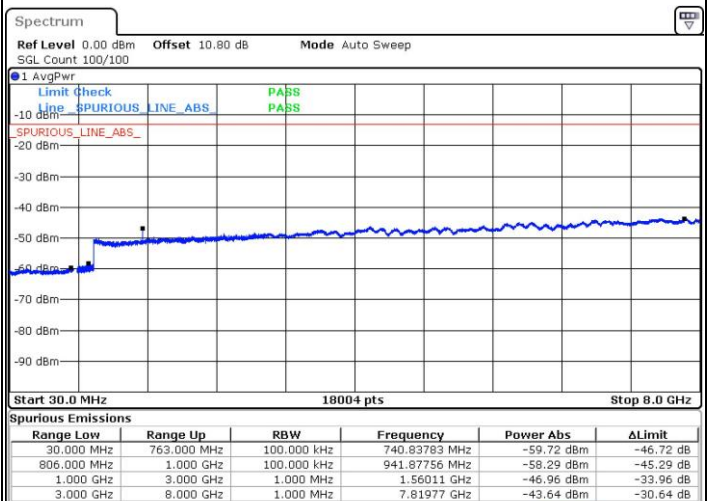
Date: 17.OCT.2018 13:56:15

Middle Channel / QPSK



Date: 17.OCT.2018 13:57:34

Middle Channel / 16QAM

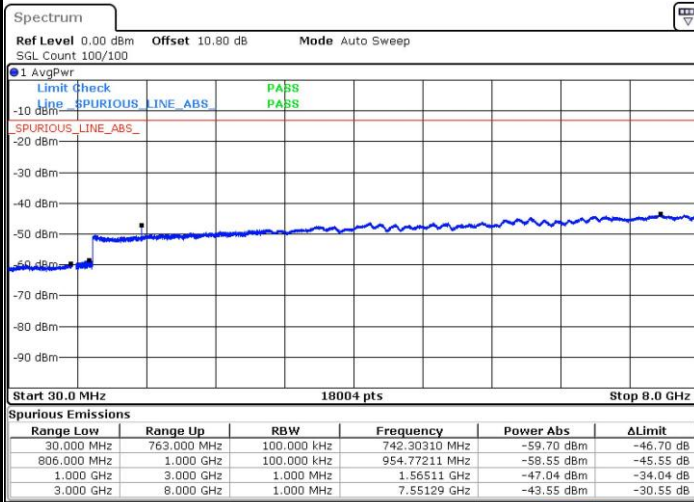


Date: 17.OCT.2018 13:56:54



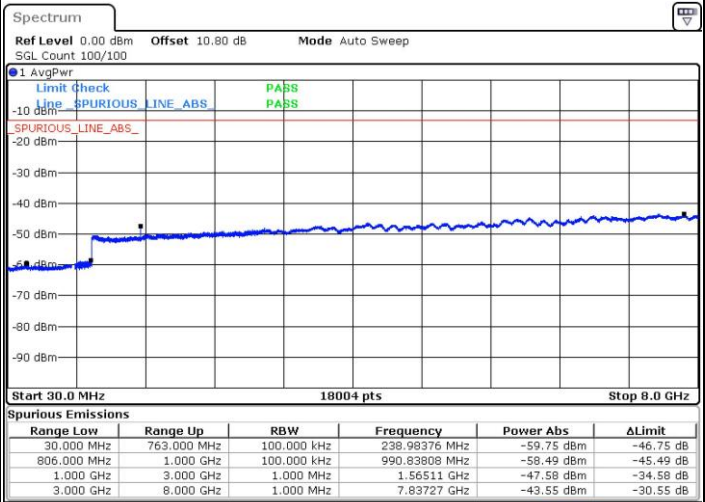
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 17.OCT.2018 14:14:58

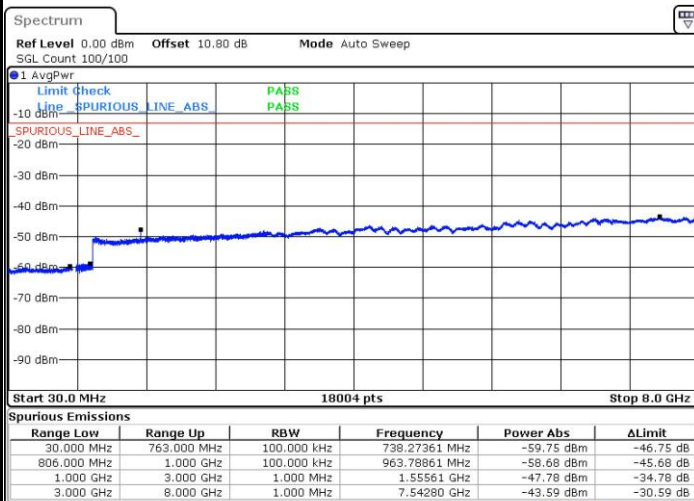
Highest Channel / 16QAM



Date: 17.OCT.2018 14:15:38

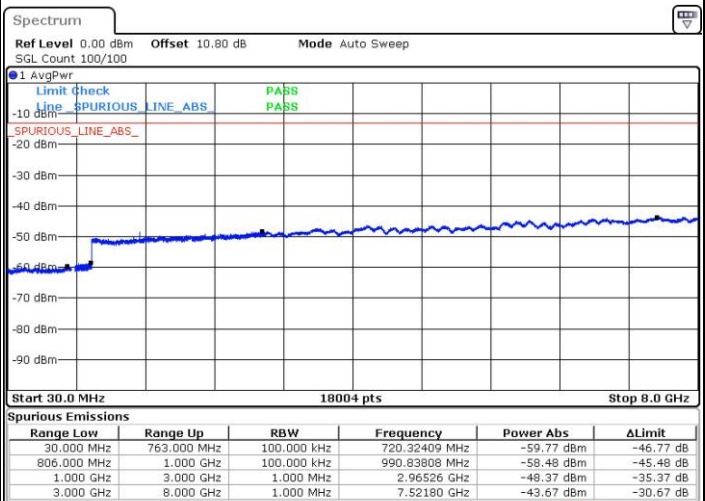
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 17.OCT.2018 14:37:35

Middle Channel / 16QAM

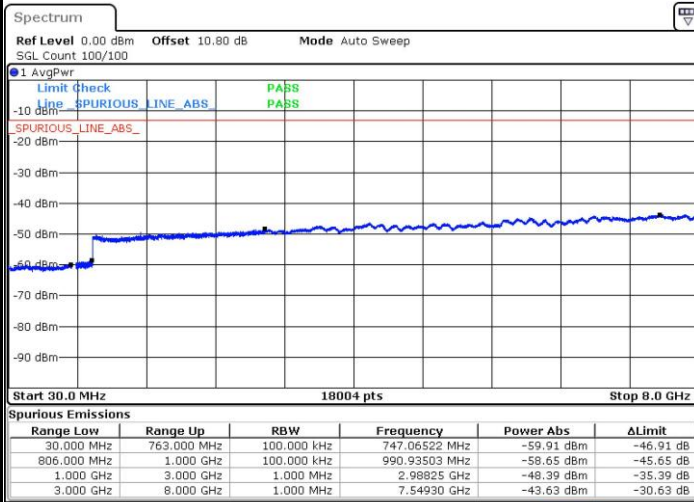


Date: 17.OCT.2018 14:36:55



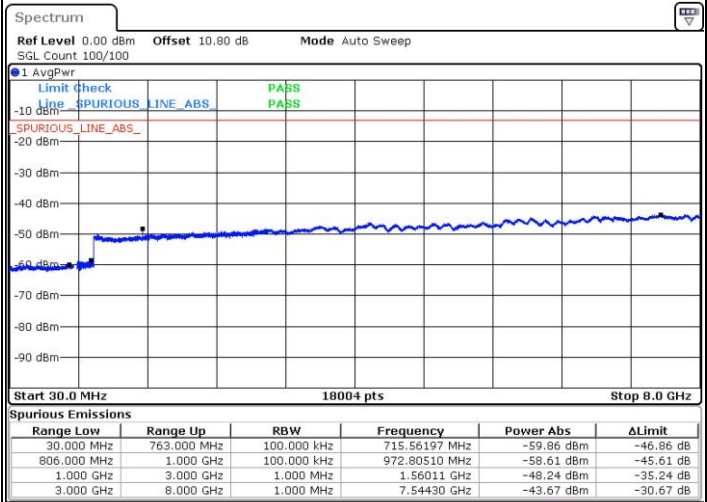
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



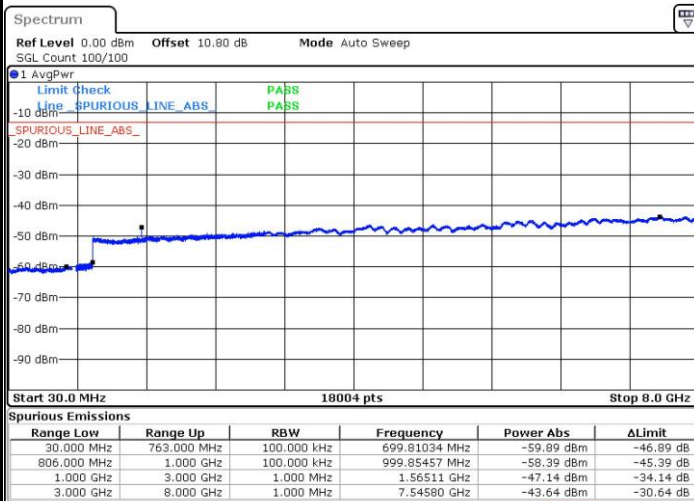
Date: 17.OCT.2018 14:20:01

Middle Channel / 64QAM



Date: 17.OCT.2018 14:20:41

Highest Channel / 64QAM

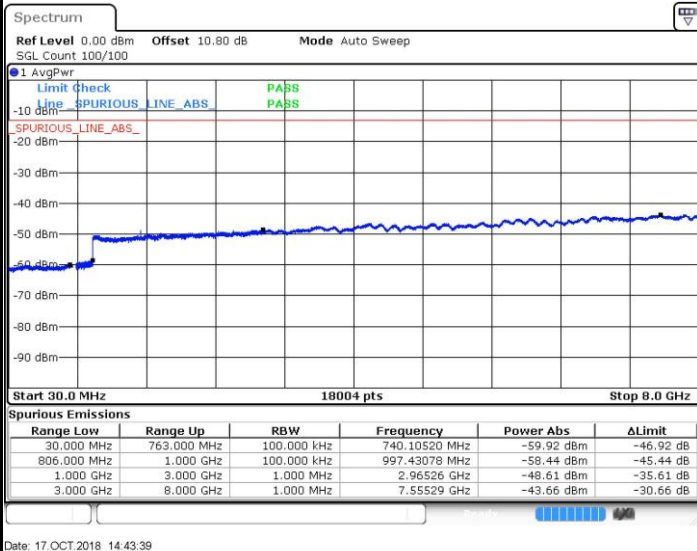


Date: 17.OCT.2018 14:25:28



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	0.0020	PASS
40	Normal Voltage	0.0096	
30	Normal Voltage	0.0102	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0101	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0121	
-30	Normal Voltage	0.0111	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0092	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

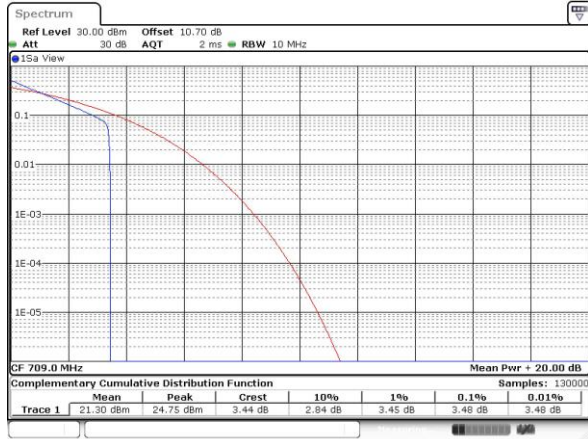
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.48	4.58	4.14	5.83	PASS
Middle CH	3.42	4.58	4.14	5.8	
Highest CH	3.48	4.43	4.26	5.74	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.13	6.38	-	-	PASS
Middle CH	5.16	6.38	-	-	
Highest CH	5.30	6.38	-	-	

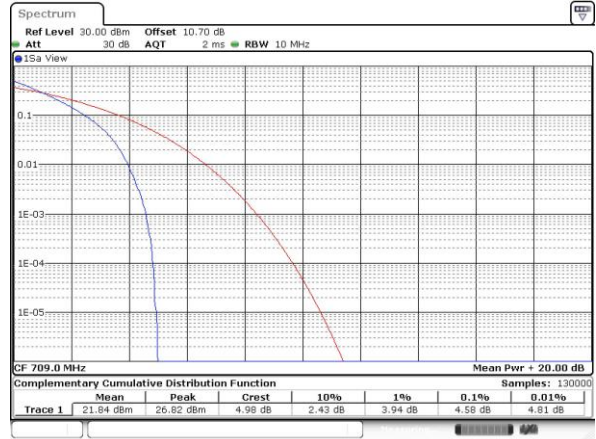


LTE Band 17 / 10MHz / QPSK

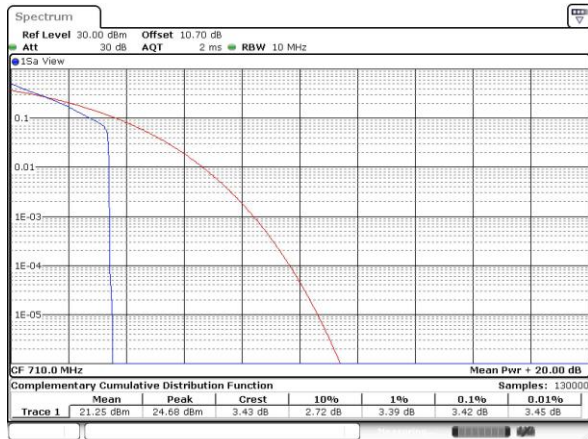
Lowest Channel / 1RB



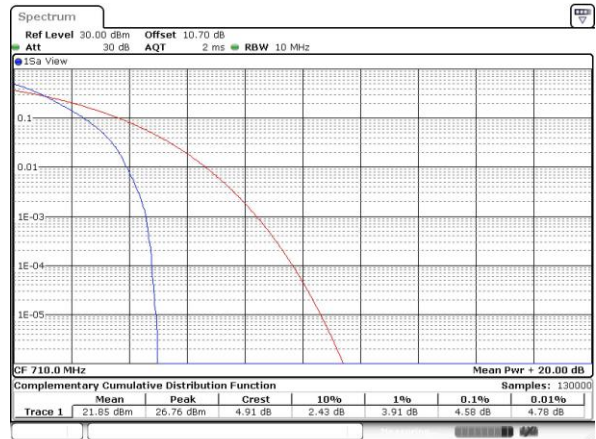
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



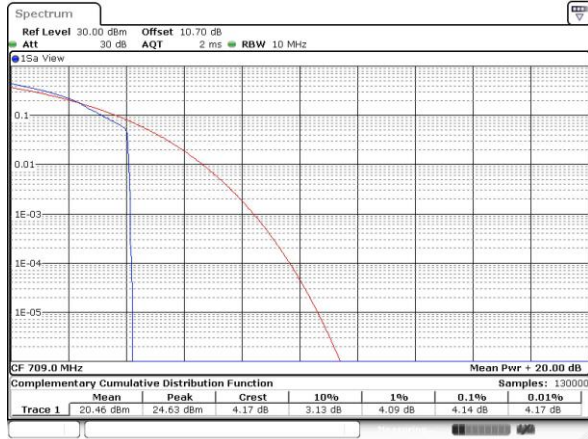
Highest Channel / Full RB



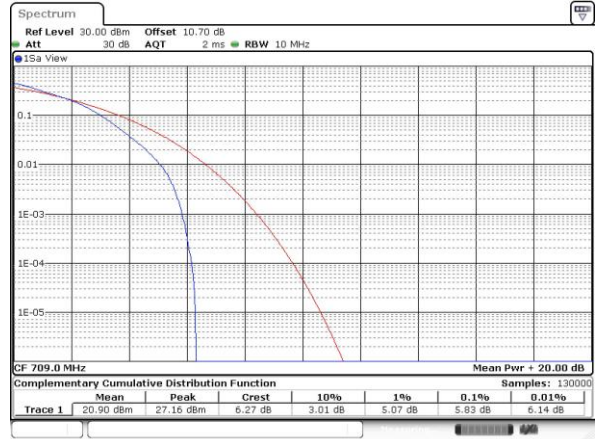


LTE Band 17 / 10MHz / 16QAM

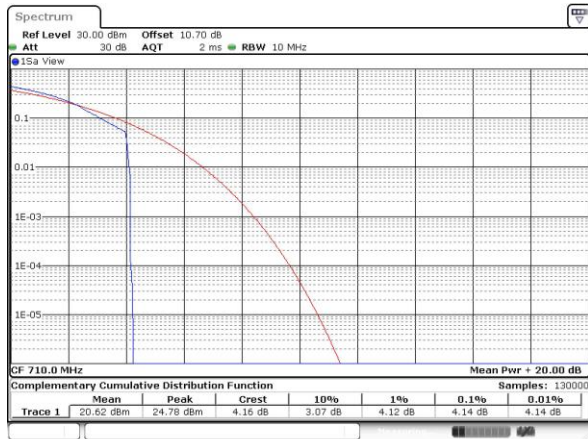
Lowest Channel / 1RB



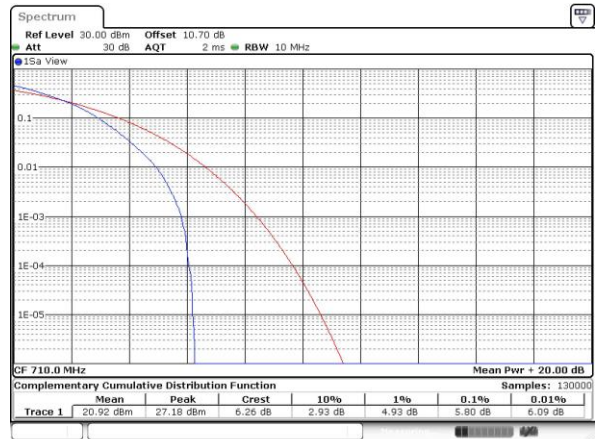
Lowest Channel / Full RB



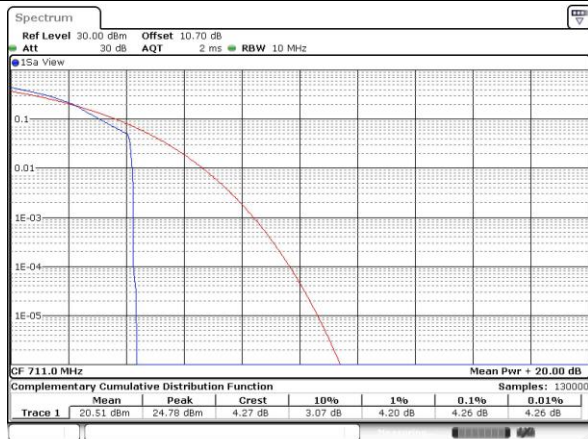
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



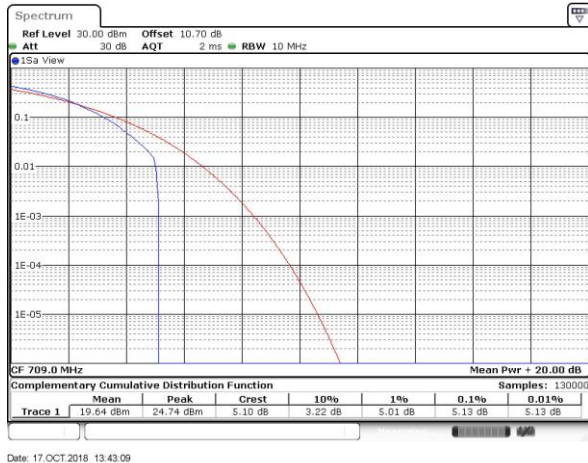
Highest Channel / Full RB



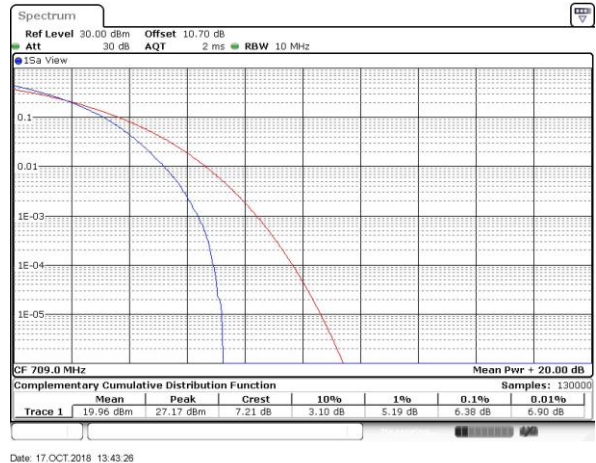


LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



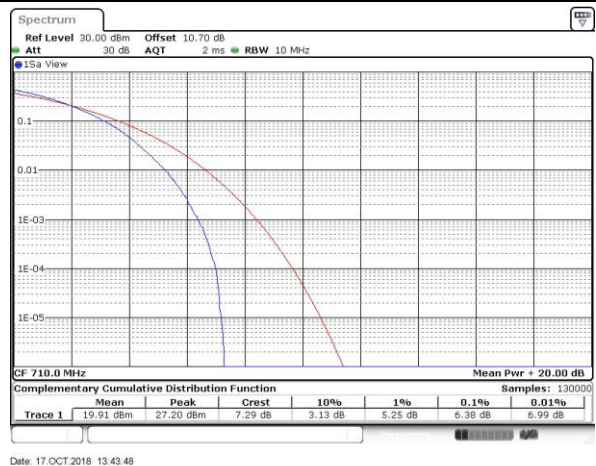
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



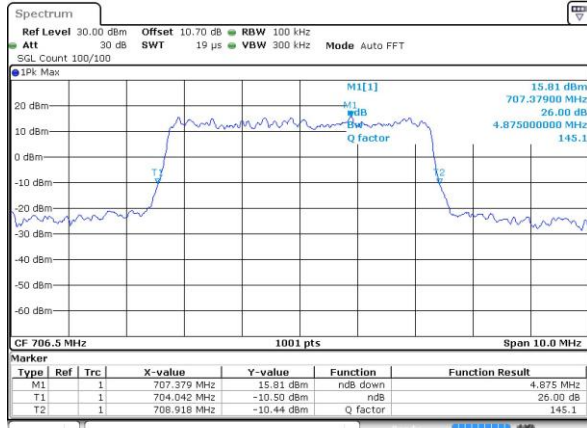
**26dB Bandwidth**

Mode BW Mod.	LTE Band 17 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.88	4.90	9.83	9.77	-	-	-	-
Middle CH	-	-	-	-	4.91	4.92	9.71	9.63	-	-	-	-
Highest CH	-	-	-	-	4.88	4.83	9.75	9.91	-	-	-	-
Mode BW Mod.	LTE Band 17 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	9.85	-	-	-	-	-
Middle CH	-	-	-	-	4.83	-	9.87	-	-	-	-	-
Highest CH	-	-	-	-	4.94	-	9.83	-	-	-	-	-

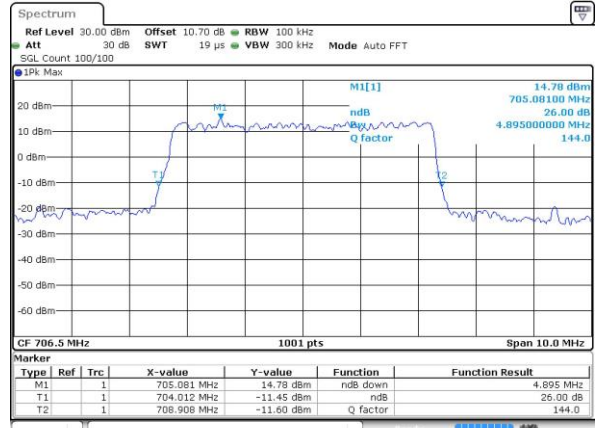


LTE Band 17

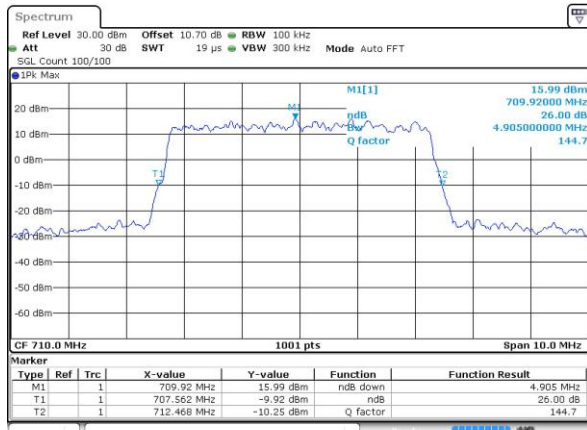
Lowest Channel / 5MHz / QPSK



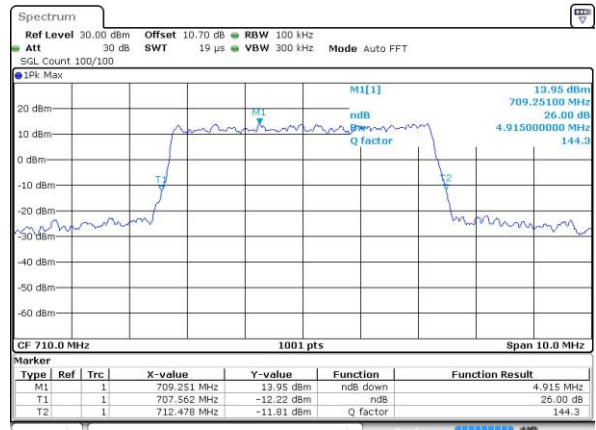
Lowest Channel / 5MHz / 16QAM



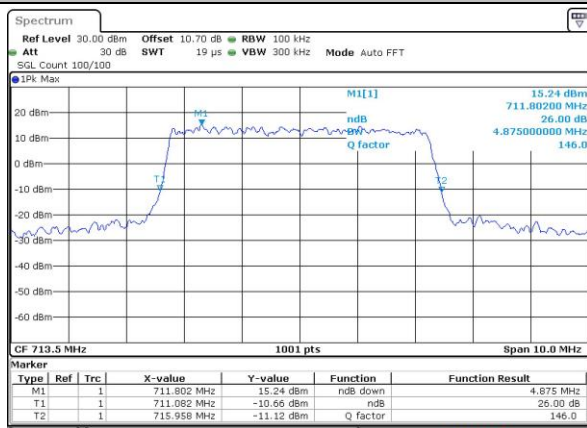
Middle Channel / 5MHz / QPSK



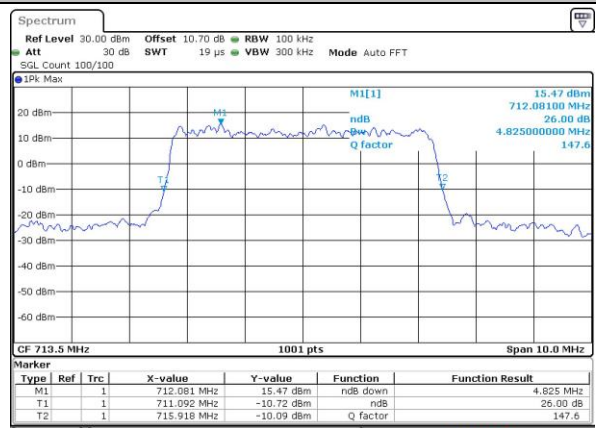
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



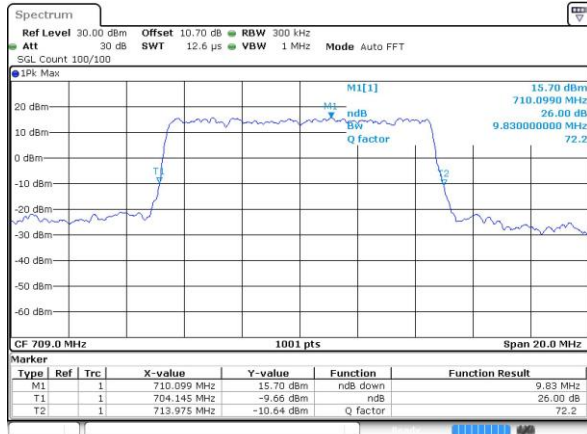
Highest Channel / 5MHz / 16QAM



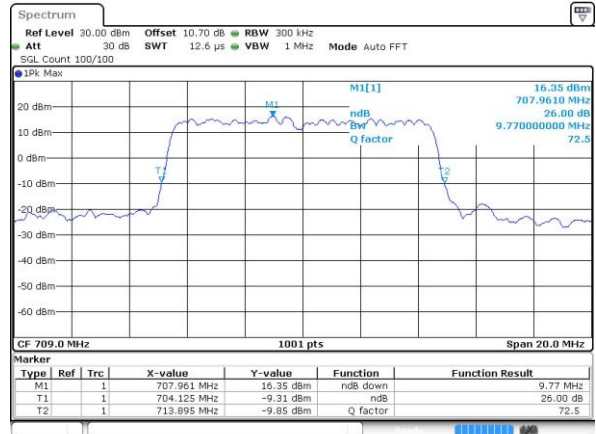


LTE Band 17

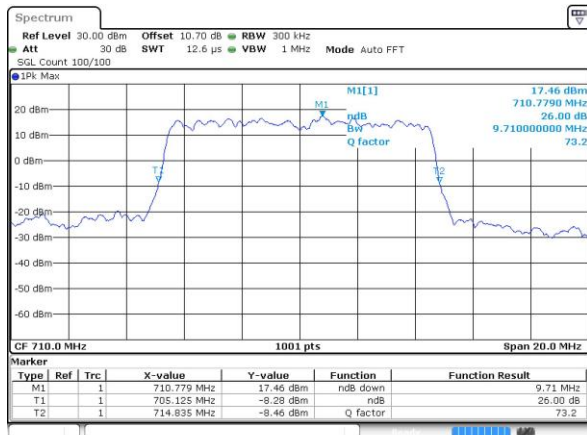
Lowest Channel / 10MHz / QPSK



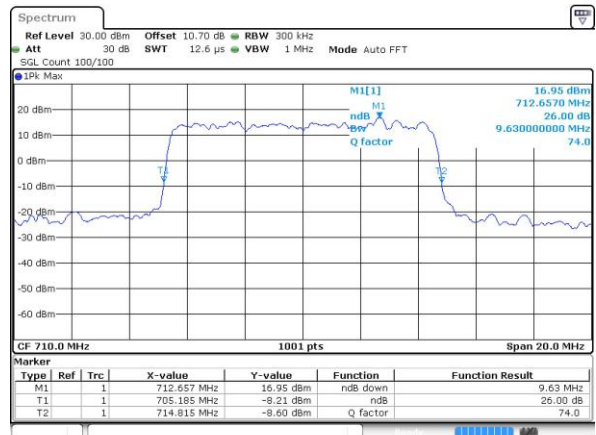
Lowest Channel / 10MHz / 16QAM



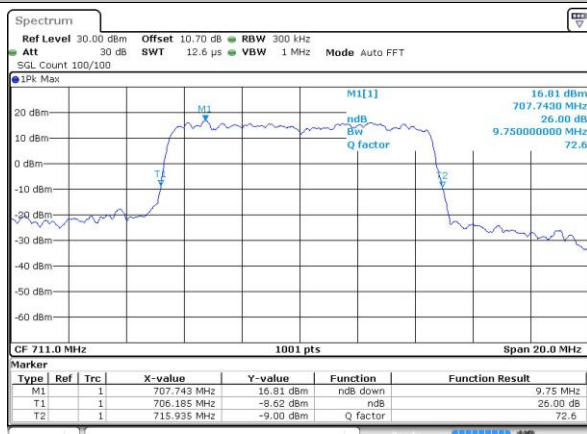
Middle Channel / 10MHz / QPSK



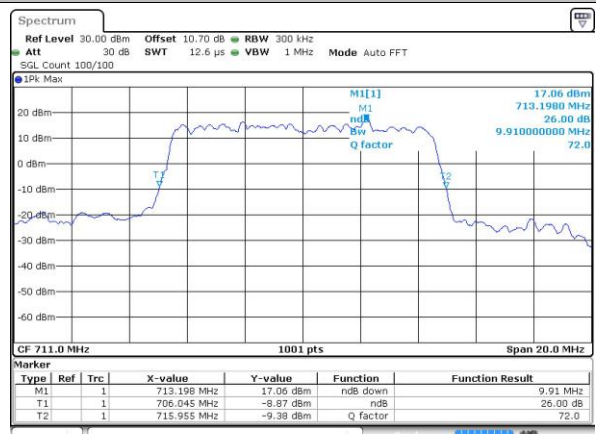
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



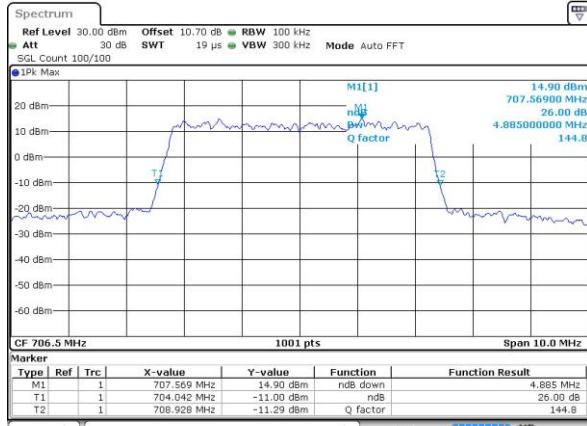
Highest Channel / 10MHz / 16QAM



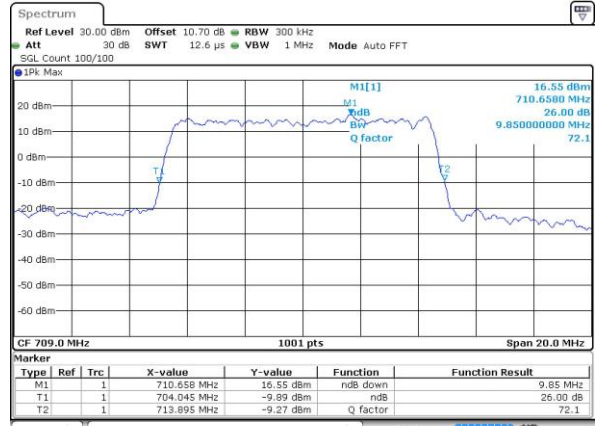


LTE Band 17

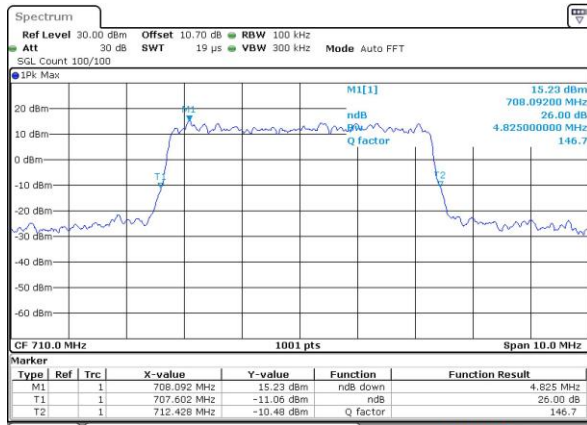
Lowest Channel / 5MHz / 64QAM



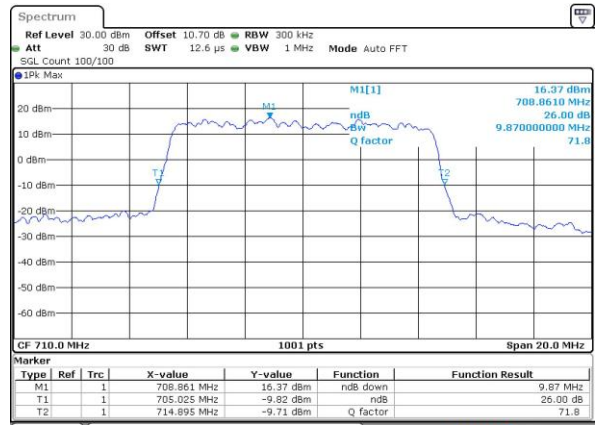
Lowest Channel / 10MHz / 64QAM



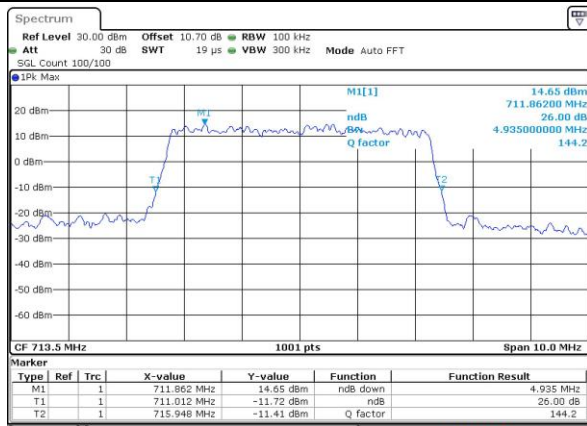
Middle Channel / 5MHz / 64QAM



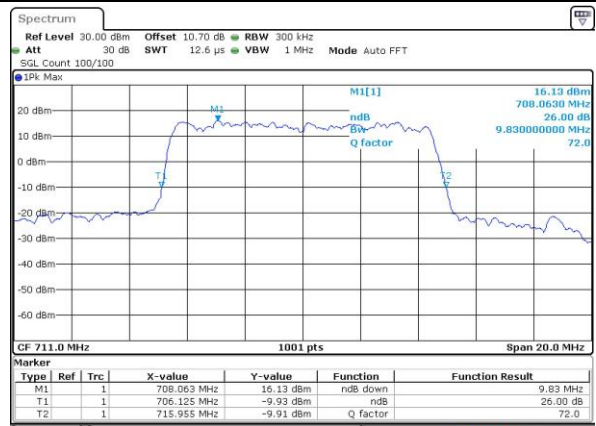
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM



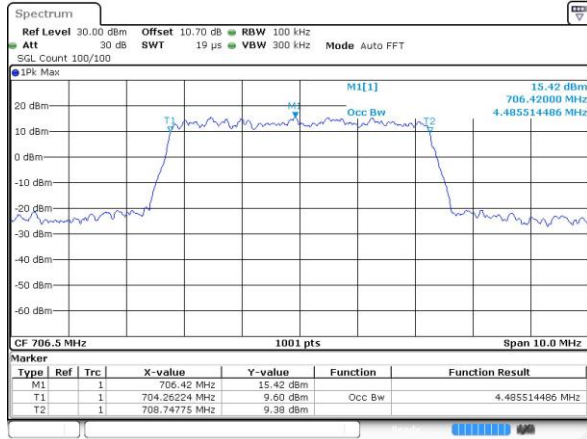
**Occupied Bandwidth**

Mode BW Mod.	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.51	9.07	9.03	-	-	-	-
Middle CH	-	-	-	-	4.5	4.52	9.01	9.03	-	-	-	-
Highest CH	-	-	-	-	4.5	4.49	9.01	8.97	-	-	-	-
Mode BW Mod.	LTE Band 17 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.03	-	-	-	-	-
Middle CH	-	-	-	-	4.48	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	9.03	-	-	-	-	-



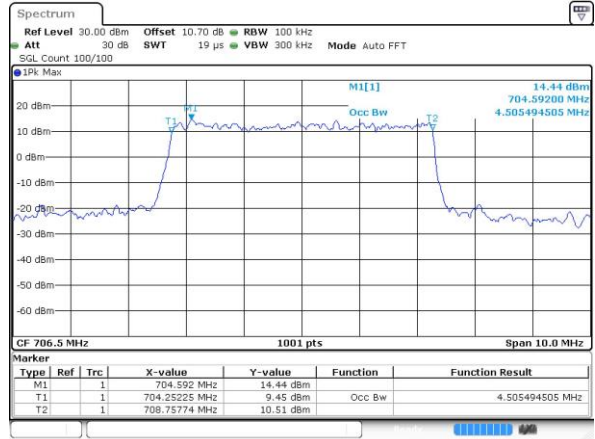
LTE Band 17

Lowest Channel / 5MHz / QPSK



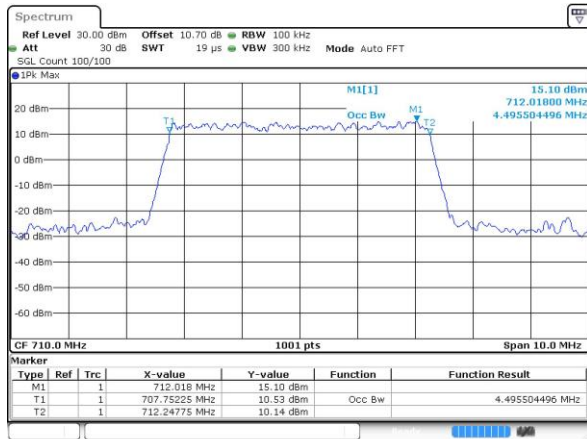
Date: 17.OCT.2018 11:36:36

Lowest Channel / 5MHz / 16QAM



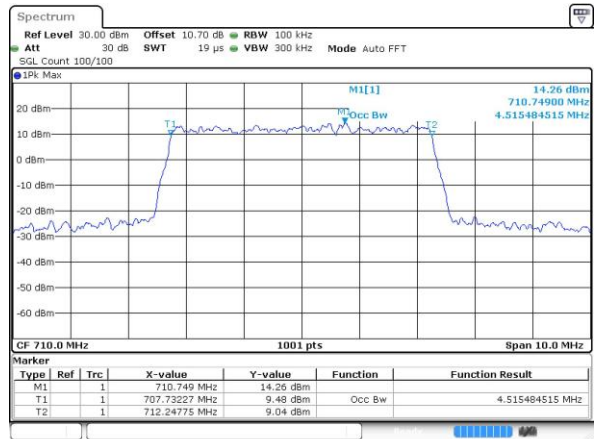
Date: 17.OCT.2018 11:36:48

Middle Channel / 5MHz / QPSK



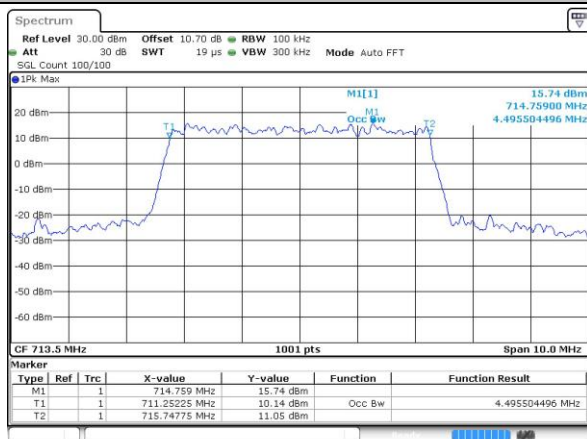
Date: 17.OCT.2018 11:43:42

Middle Channel / 5MHz / 16QAM



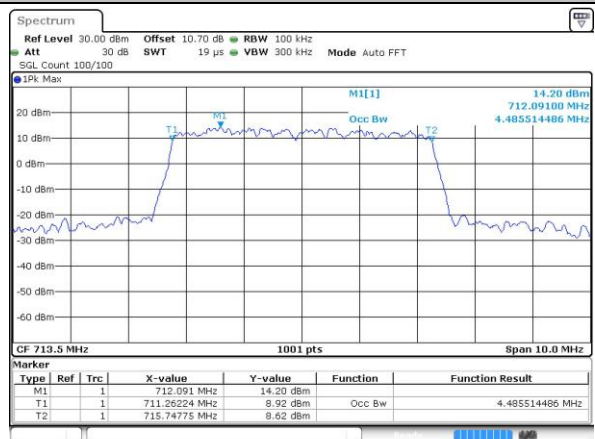
Date: 17.OCT.2018 11:43:54

Highest Channel / 5MHz / QPSK



Date: 17.OCT.2018 11:46:08

Highest Channel / 5MHz / 16QAM

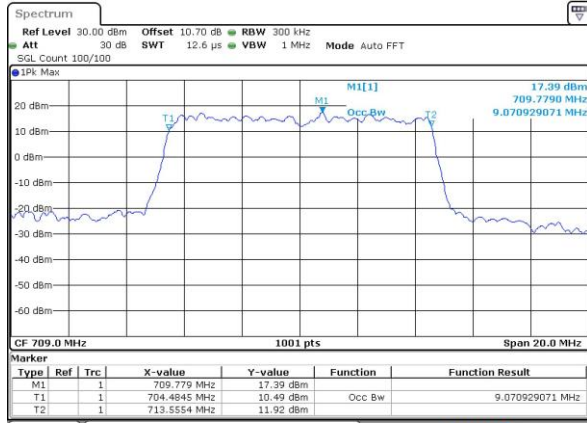


Date: 17.OCT.2018 11:46:20



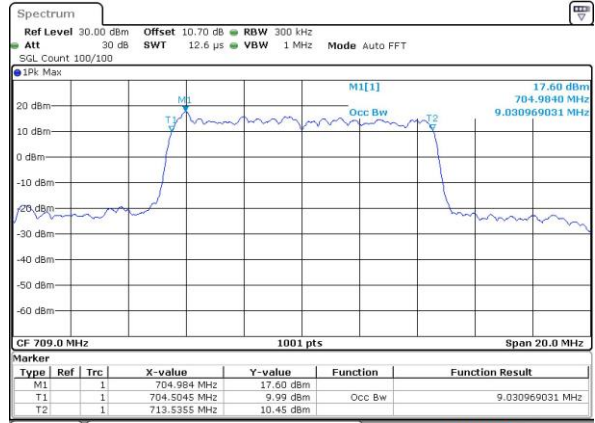
LTE Band 17

Lowest Channel / 10MHz / QPSK



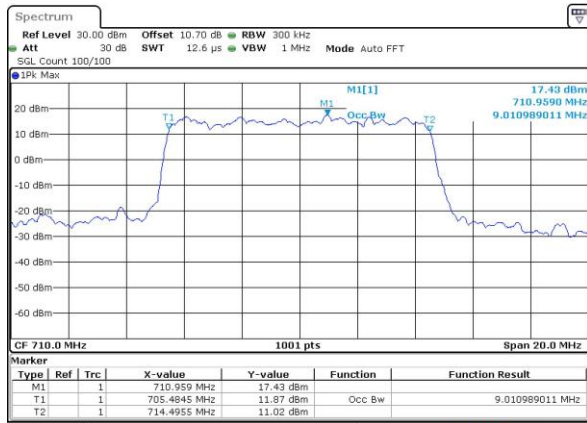
Date: 17.OCT.2018 11:53:15

Lowest Channel / 10MHz / 16QAM



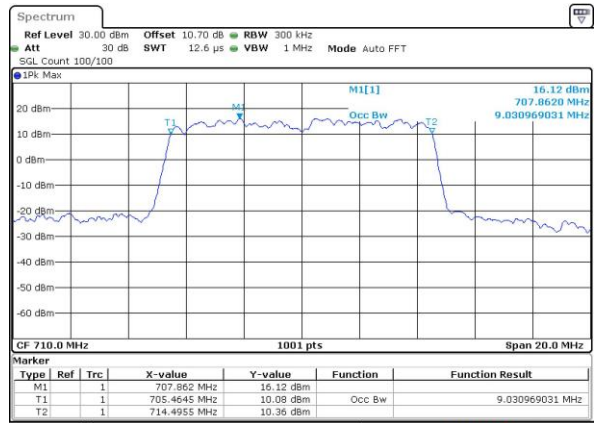
Date: 17.OCT.2018 11:53:26

Middle Channel / 10MHz / QPSK



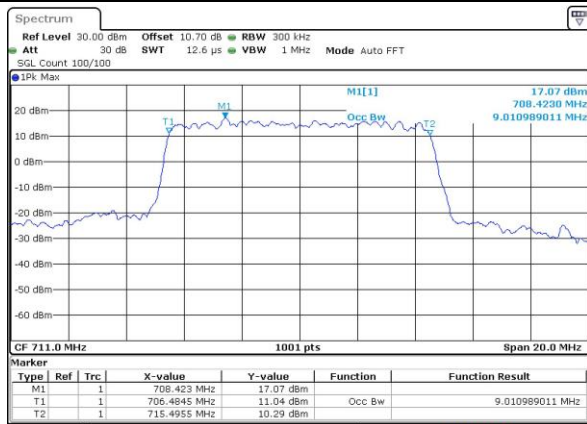
Date: 17.OCT.2018 12:00:21

Middle Channel / 10MHz / 16QAM



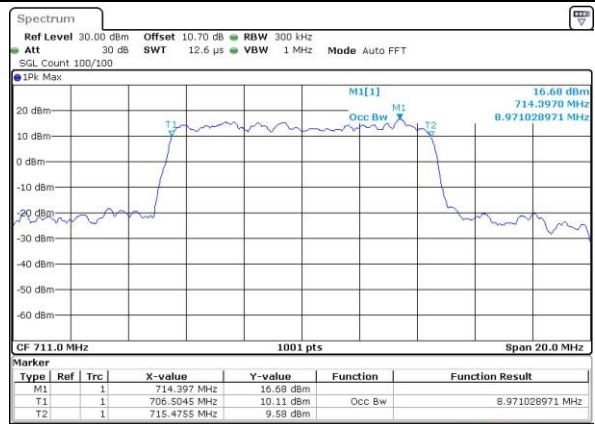
Date: 17.OCT.2018 12:00:33

Highest Channel / 10MHz / QPSK



Date: 17.OCT.2018 12:02:47

Highest Channel / 10MHz / 16QAM

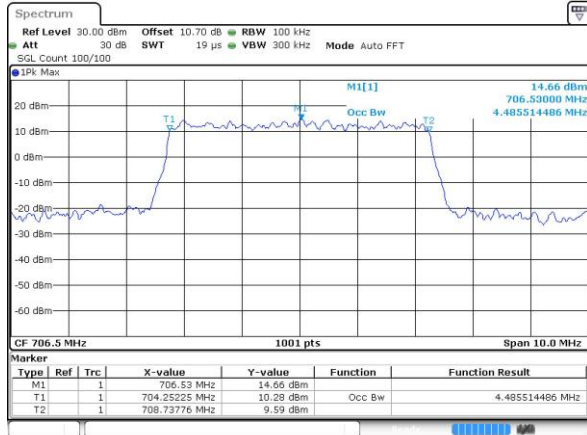


Date: 17.OCT.2018 12:02:58



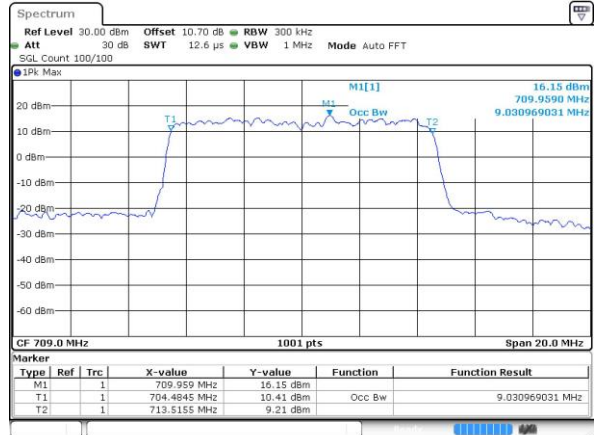
LTE Band 17

Lowest Channel / 5MHz / 64QAM



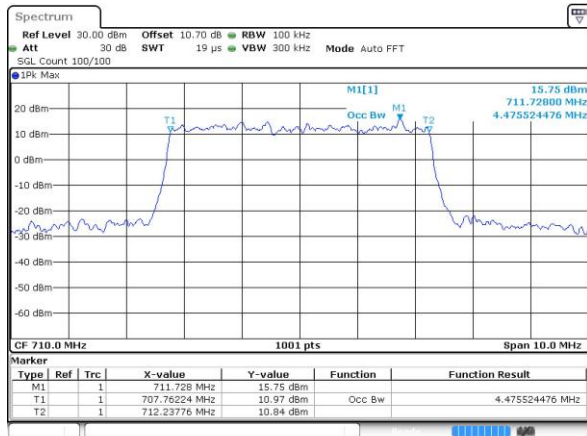
Date: 17.OCT.2018 12:09:53

Lowest Channel / 10MHz / 64QAM



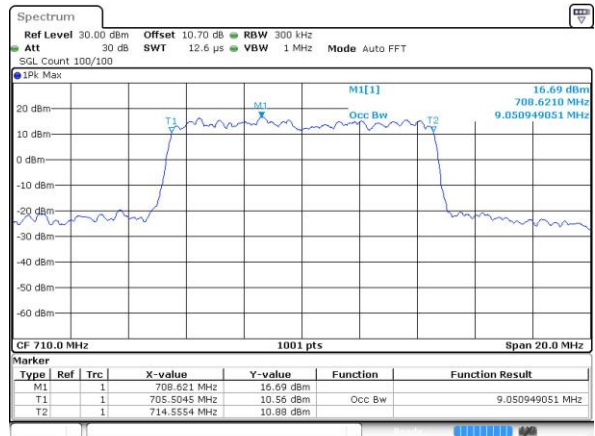
Date: 17.OCT.2018 12:18:13

Middle Channel / 5MHz / 64QAM



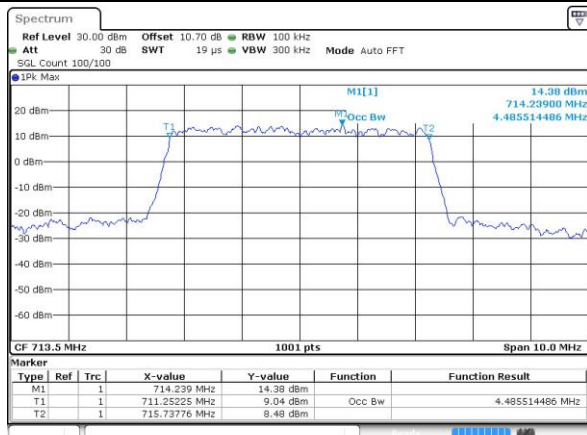
Date: 17.OCT.2018 12:13:28

Middle Channel / 10MHz / 64QAM



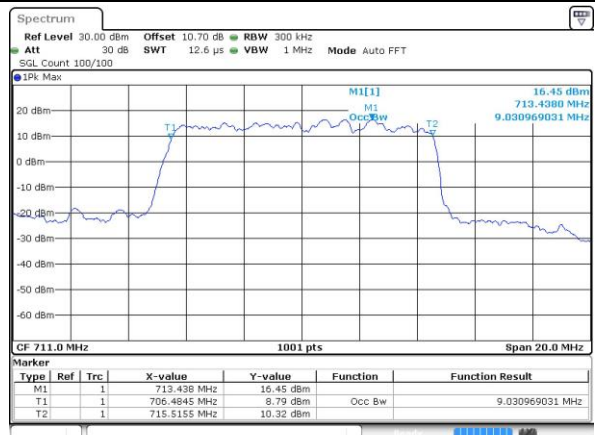
Date: 17.OCT.2018 12:21:46

Highest Channel / 5MHz / 64QAM

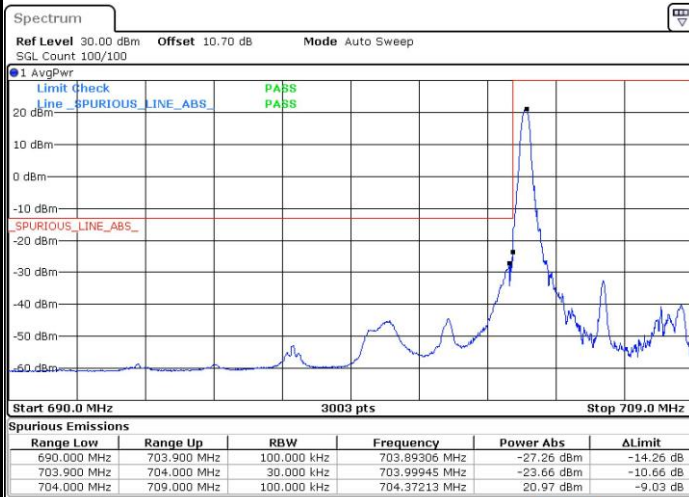
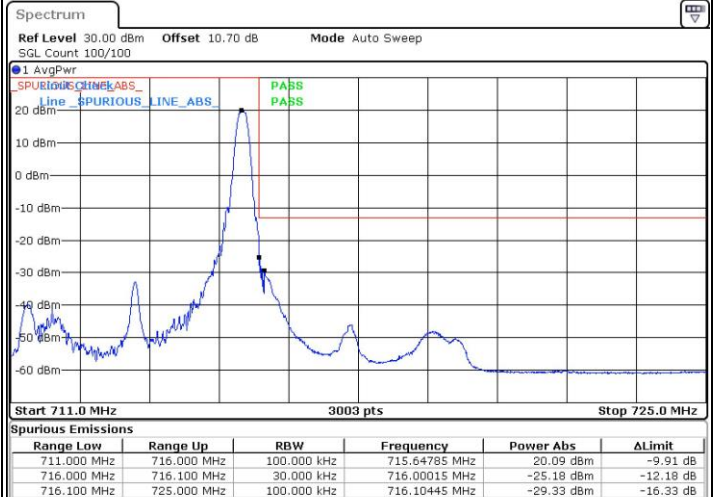
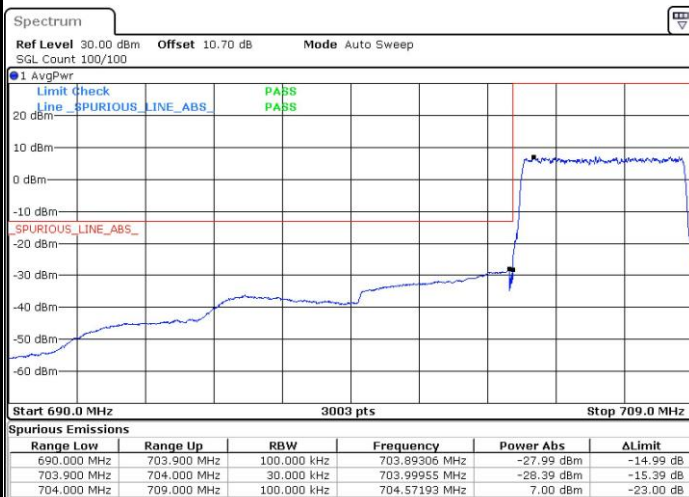


Date: 17.OCT.2018 12:14:39

Highest Channel / 10MHz / 64QAM



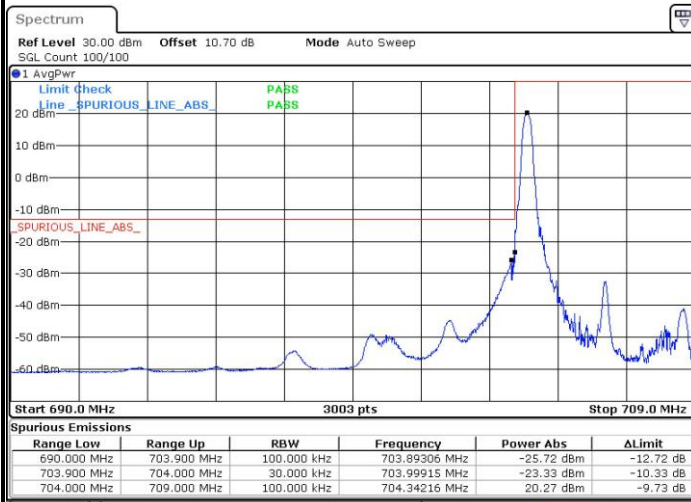
Date: 17.OCT.2018 12:22:59

**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**

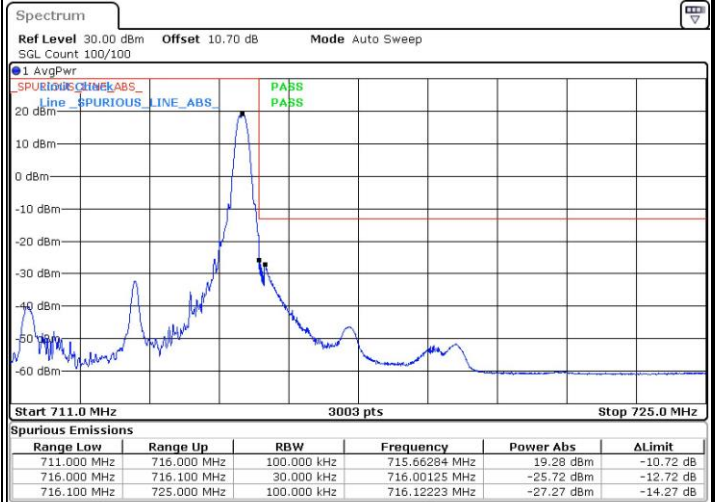


LTE Band 17 / 5MHz / 16QAM

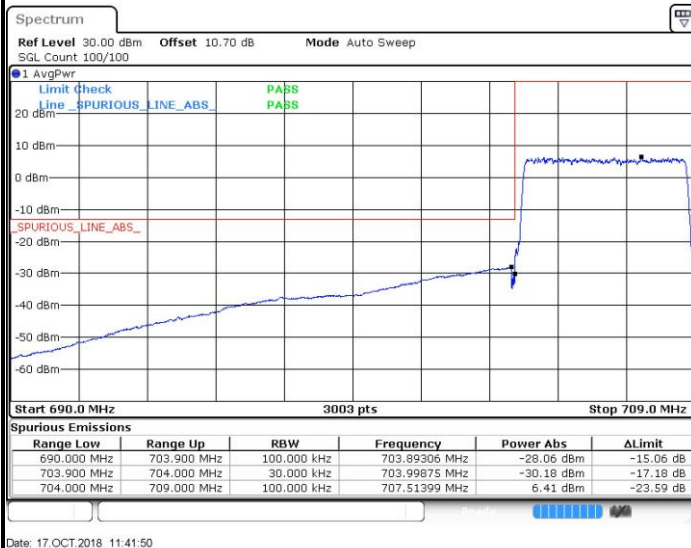
Lowest Band Edge / 1 RB



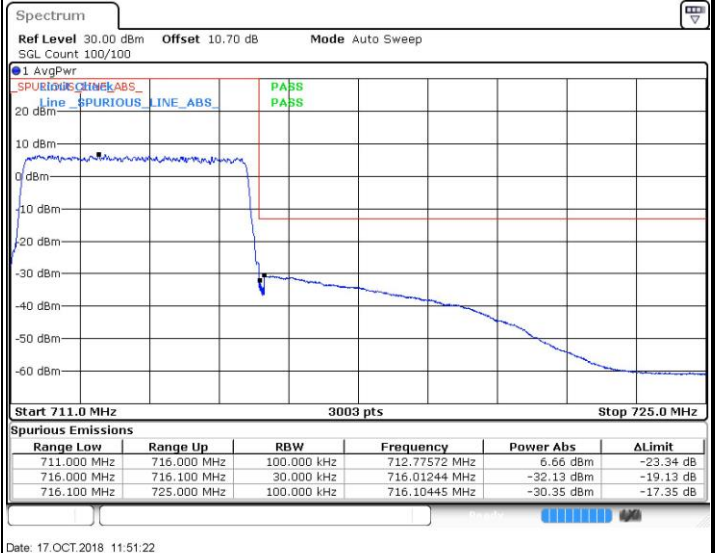
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



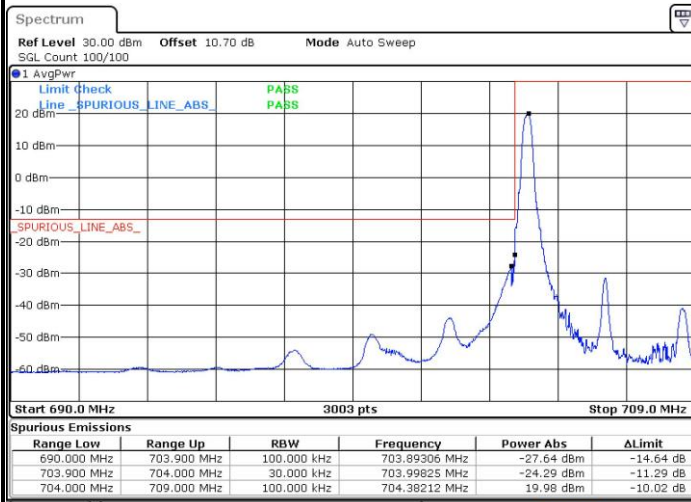
Highest Band Edge / Full RB



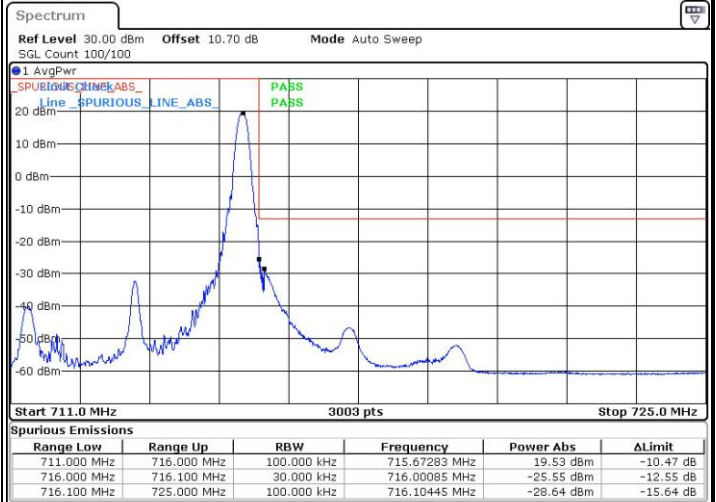


LTE Band 17 / 5MHz / 64QAM

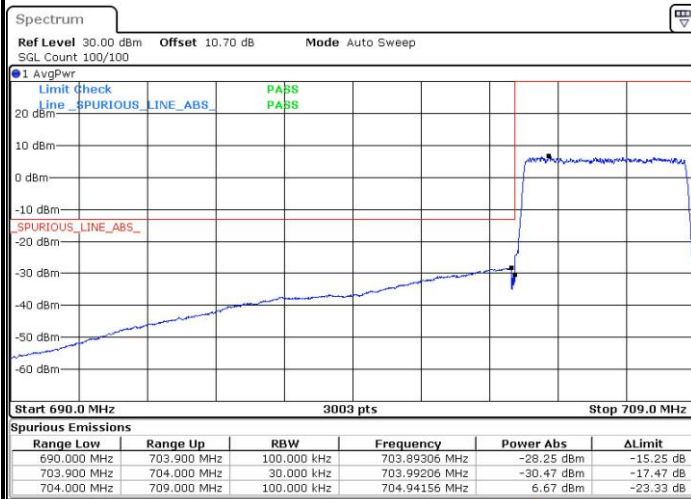
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



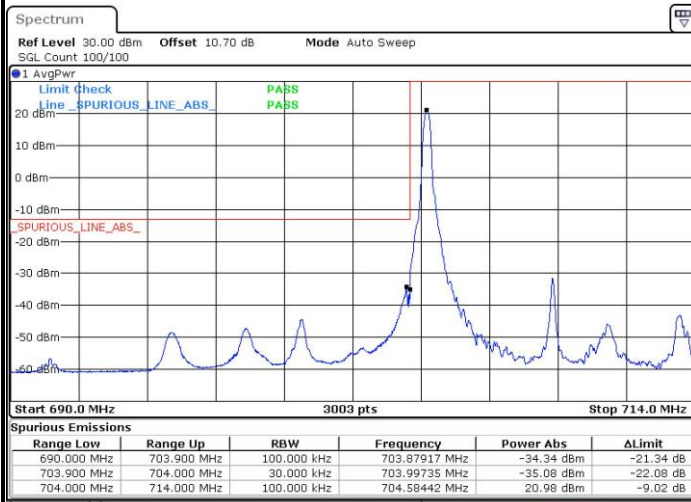
Highest Band Edge / Full RB



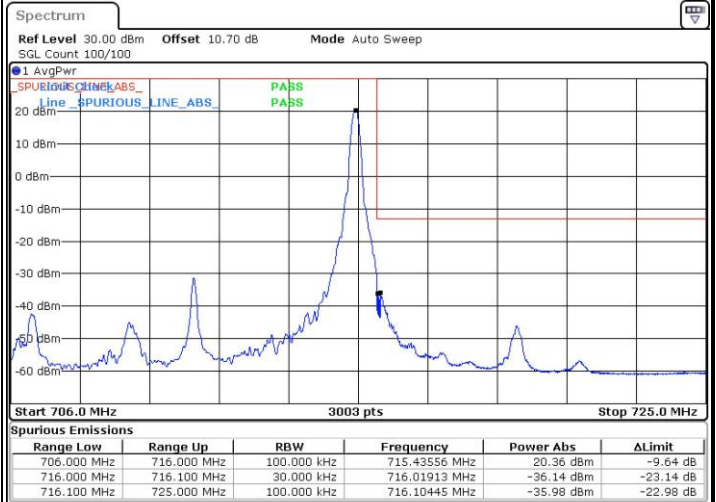


LTE Band 17 / 10MHz / QPSK

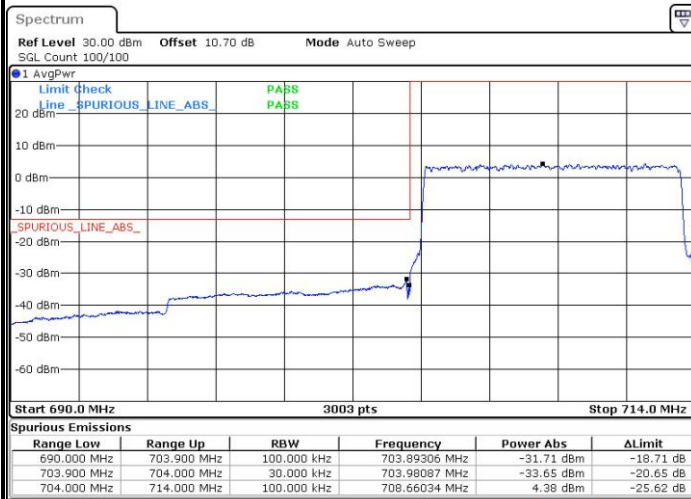
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



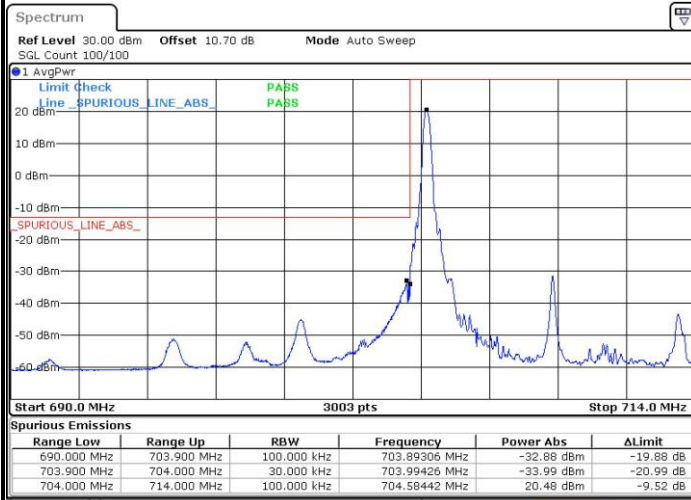
Highest Band Edge / Full RB



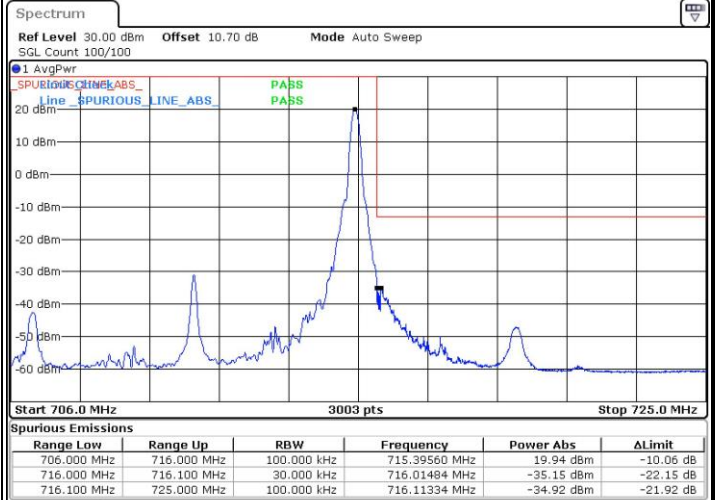


LTE Band 17 / 10MHz / 16QAM

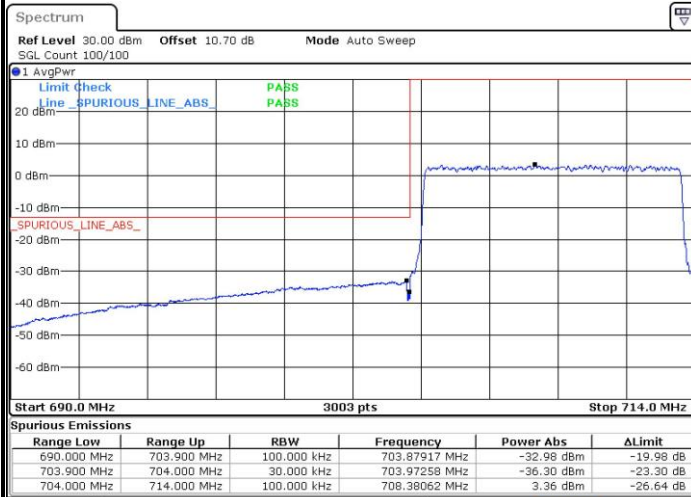
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

