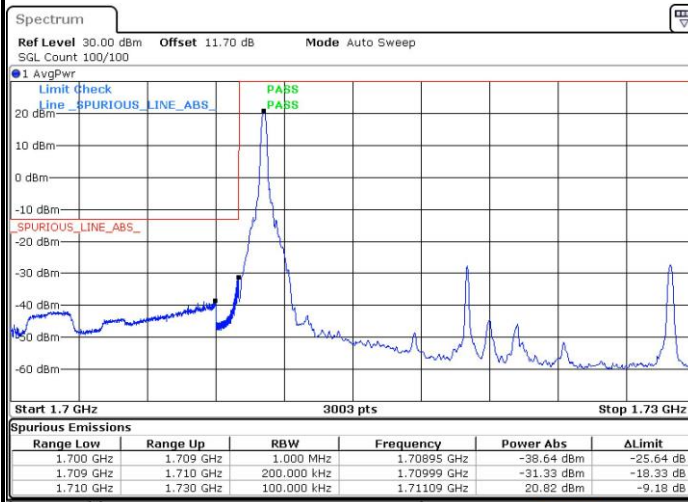


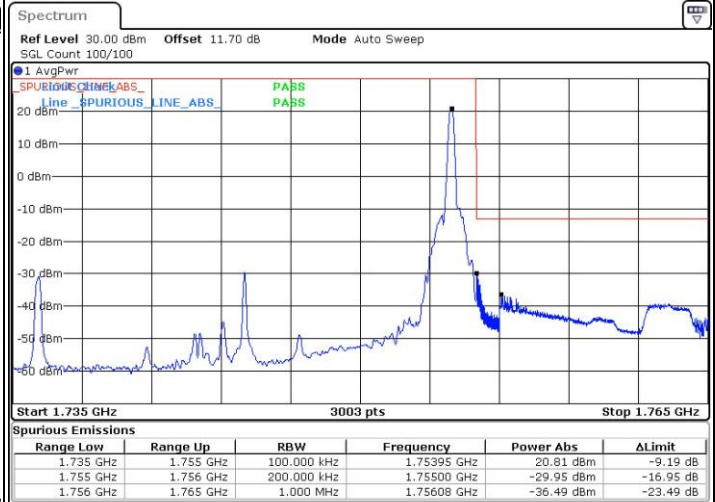


LTE Band 4 / 20MHz / QPSK

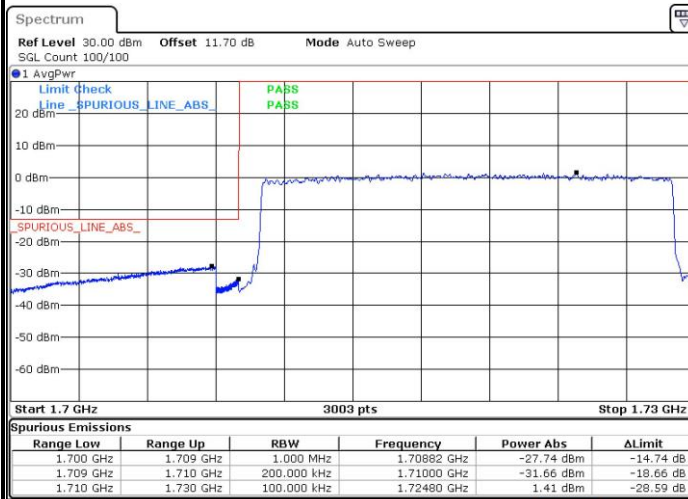
Lowest Band Edge / 1 RB



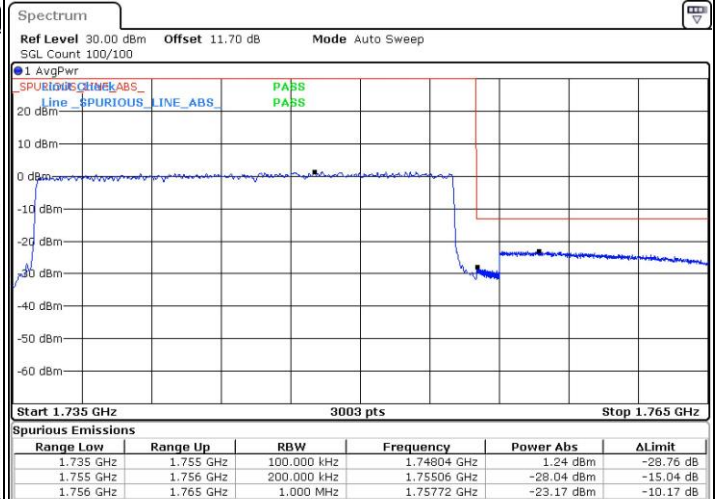
Highest Band Edge / 1 RB

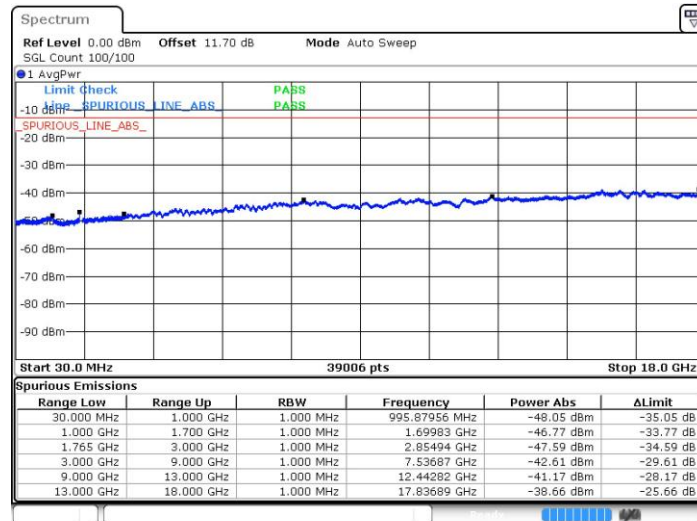


Lowest Band Edge / Full RB

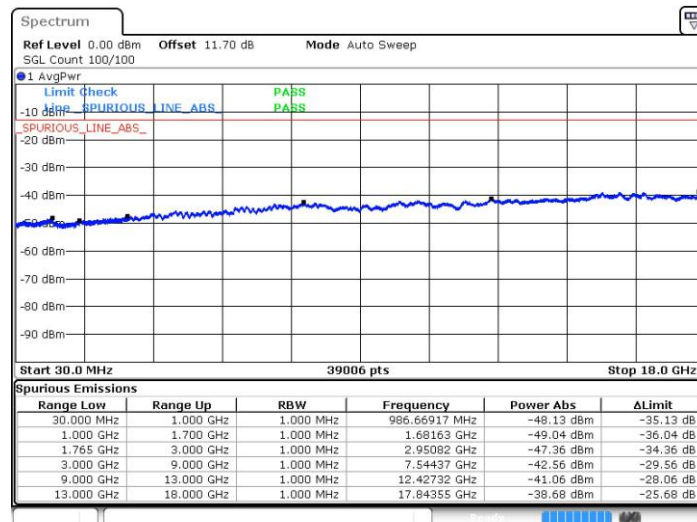


Highest Band Edge / Full RB



**Conducted Spurious Emission****LTE Band 4 / 1.4MHz****Lowest Channel / QPSK**

Date: 15 JUL 2018 17:42:36

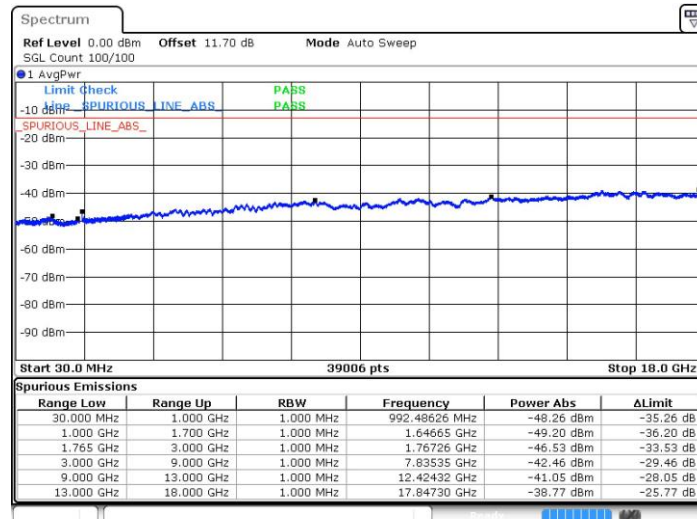
Middle Channel / QPSK

Date: 15 JUL 2018 17:45:43



LTE Band 4 / 1.4MHz

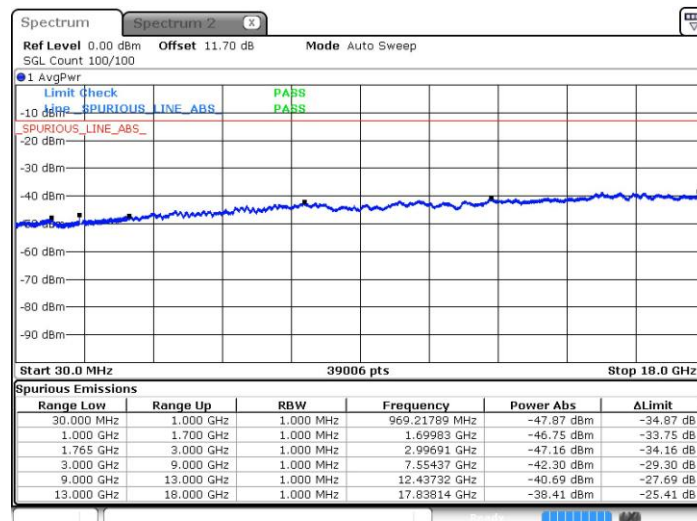
Highest Channel / QPSK



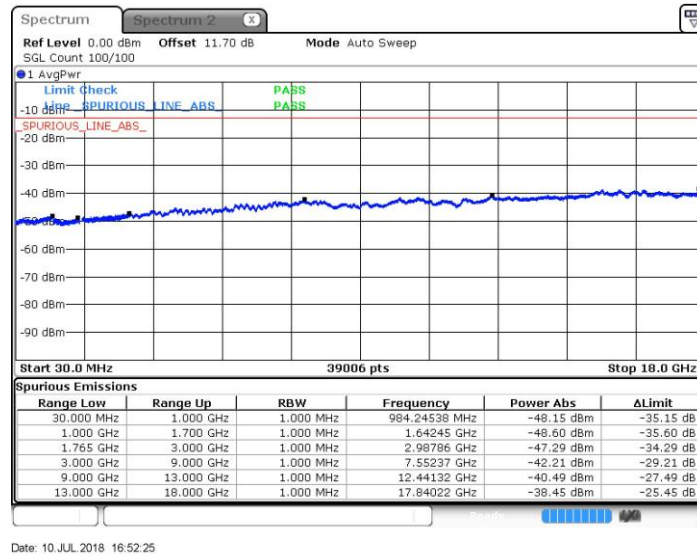
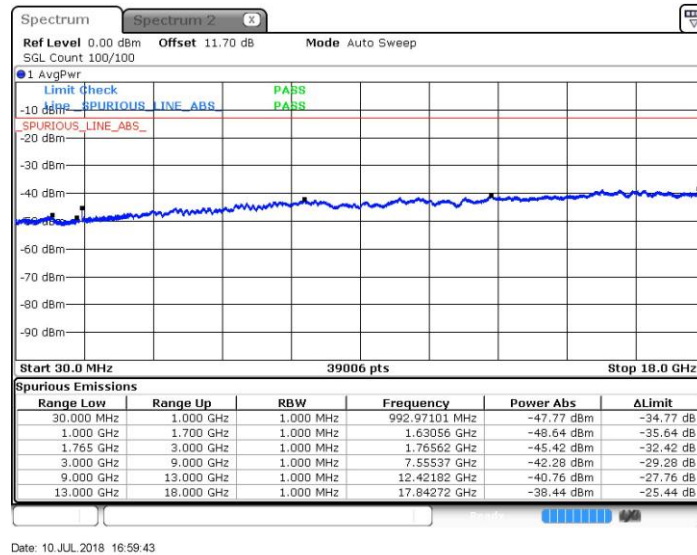
Date: 15 JUL 2018 17:53:31

LTE Band 4 / 3MHz

Lowest Channel / QPSK



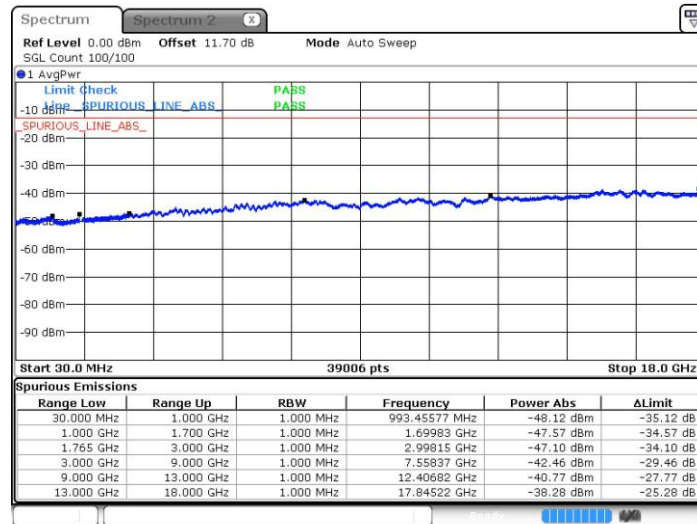
Date: 10 JUL 2018 16:49:48

LTE Band 4 / 3MHz
Middle Channel / QPSK

Highest Channel / QPSK




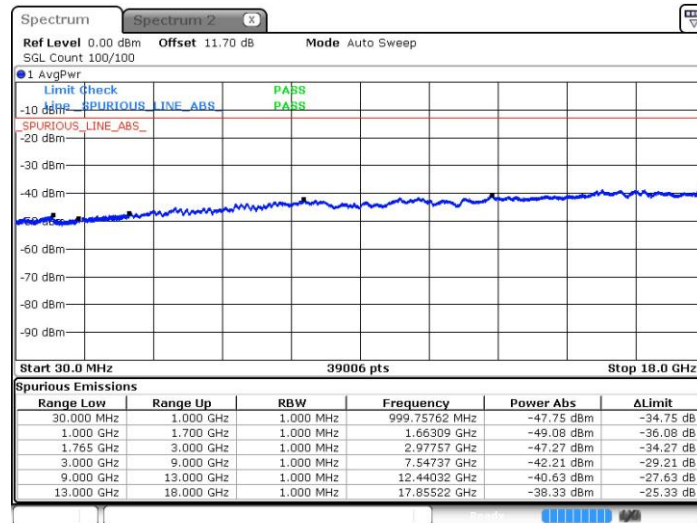
LTE Band 4 / 5MHz

Lowest Channel / QPSK



Date: 10 JUL 2018 17:07:02

Middle Channel / QPSK

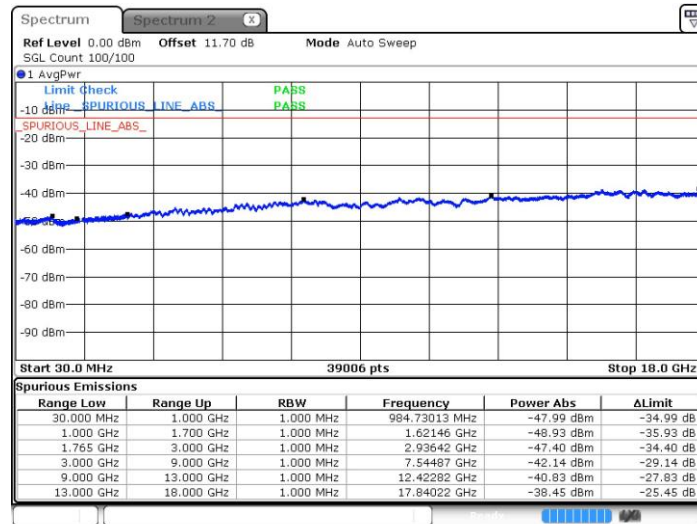


Date: 10 JUL 2018 17:09:39



LTE Band 4 / 5MHz

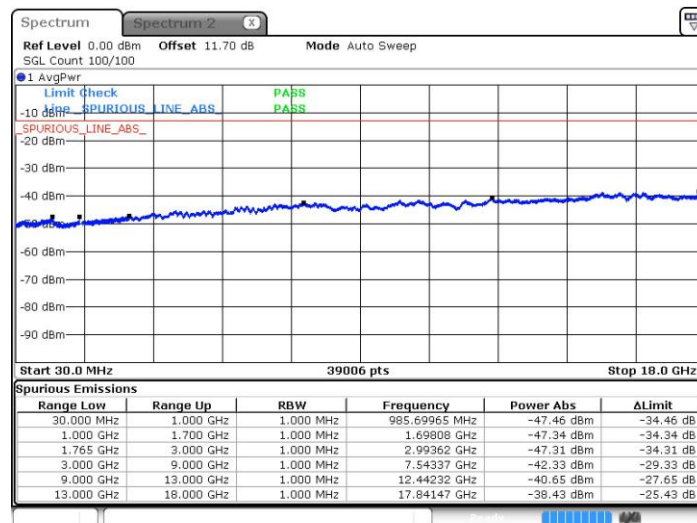
Highest Channel / QPSK



Date: 10 JUL 2018 17:16:57

LTE Band 4 / 10MHz

Lowest Channel / QPSK

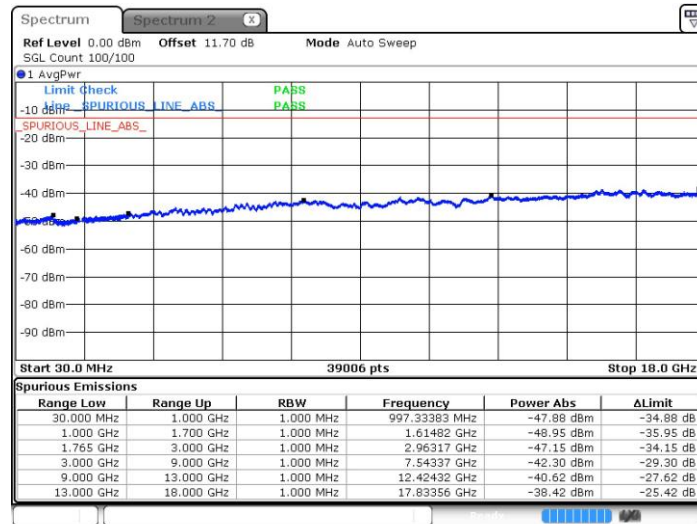


Date: 10 JUL 2018 17:24:15



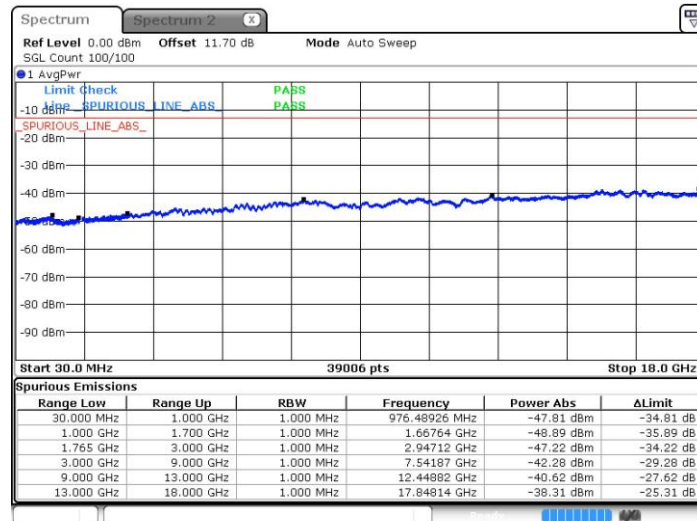
LTE Band 4 / 10MHz

Middle Channel / QPSK



Date: 10 JUL 2018 17:26:53

Highest Channel / QPSK

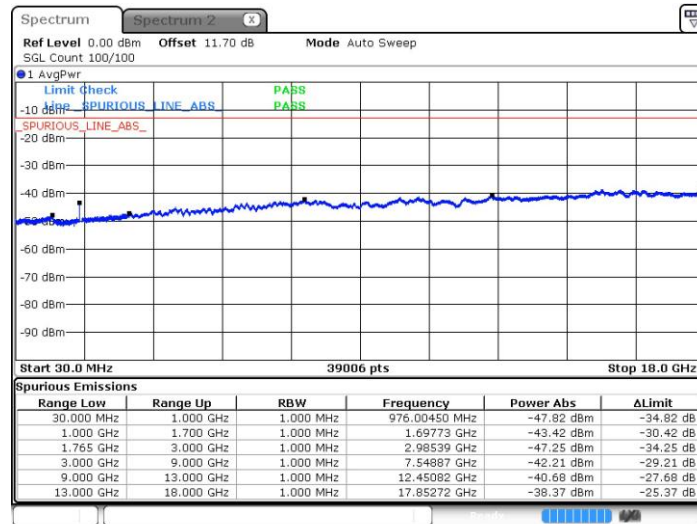


Date: 10 JUL 2018 17:34:12



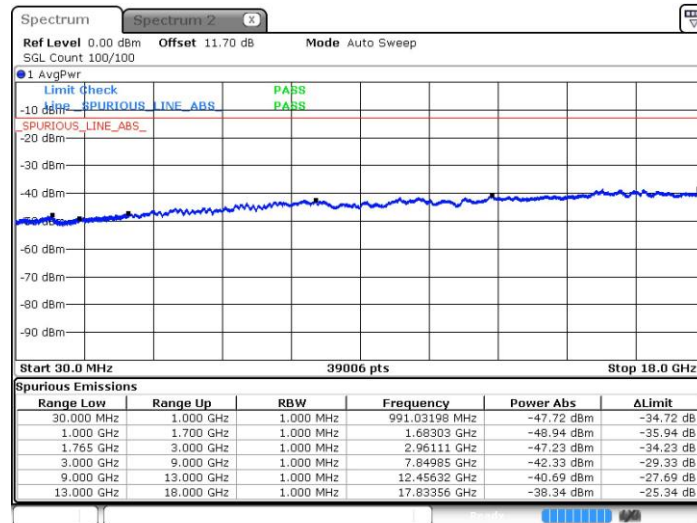
LTE Band 4 / 15MHz

Lowest Channel / QPSK



Date: 10 JUL 2018 17:41:30

Middle Channel / QPSK

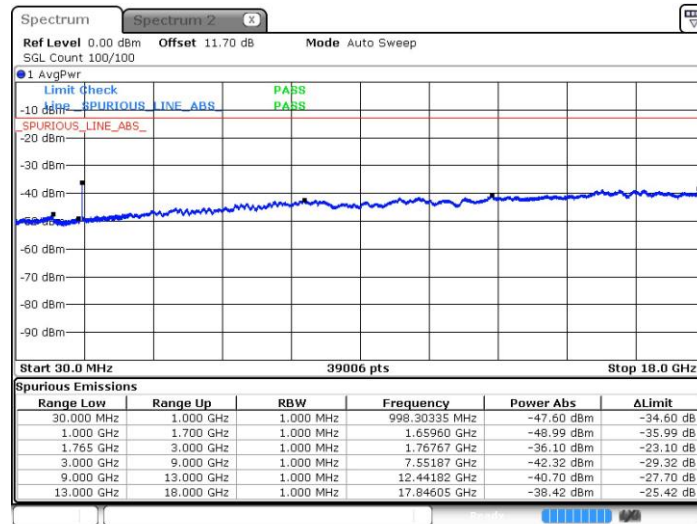


Date: 10 JUL 2018 17:44:08



LTE Band 4 / 15MHz

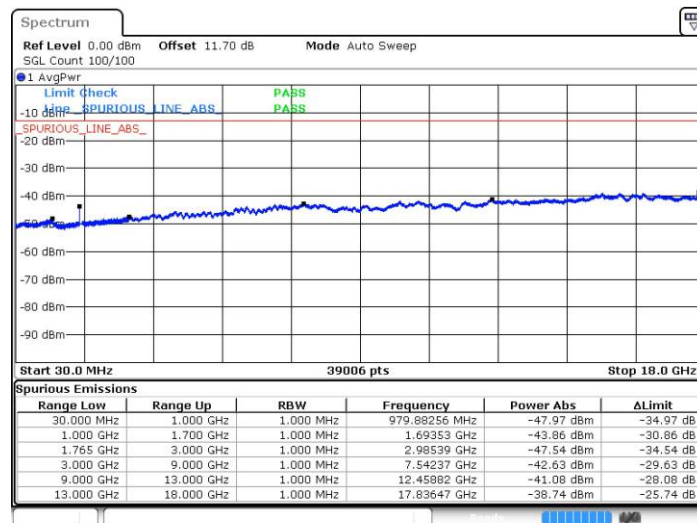
Highest Channel / QPSK



Date: 10 JUL 2018 17:51:26

LTE Band 4 / 20MHz

Lowest Channel / QPSK

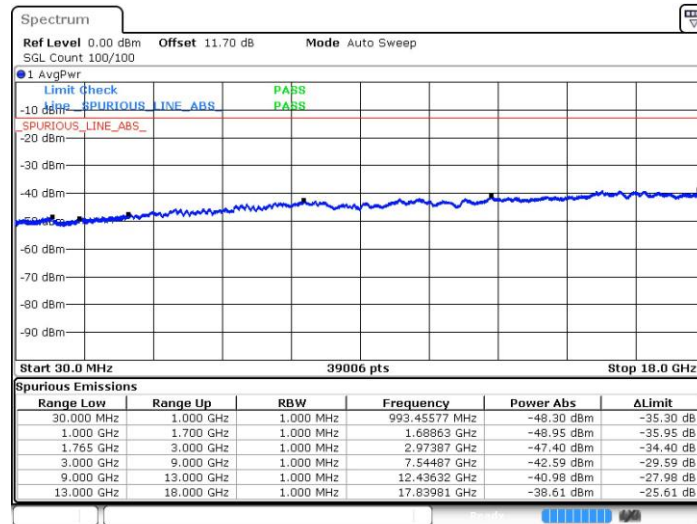


Date: 15 JUL 2018 18:04:48



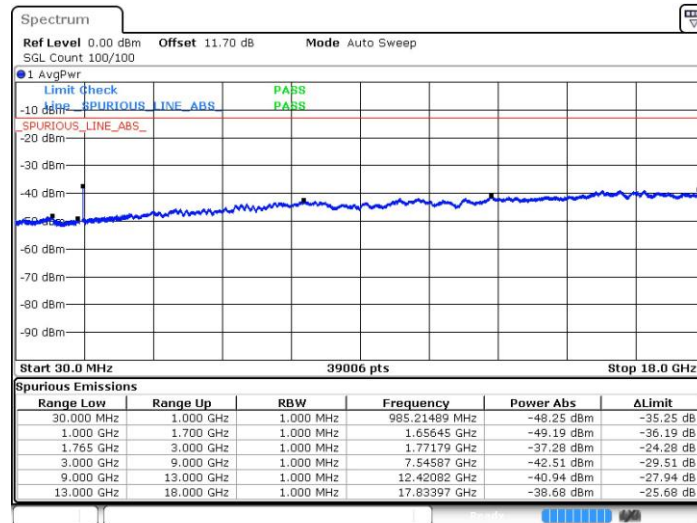
LTE Band 4 / 20MHz

Middle Channel / QPSK



Date: 15 JUL 2018 18:07:54

Highest Channel / QPSK



Date: 15 JUL 2018 18:15:41

Frequency Stability

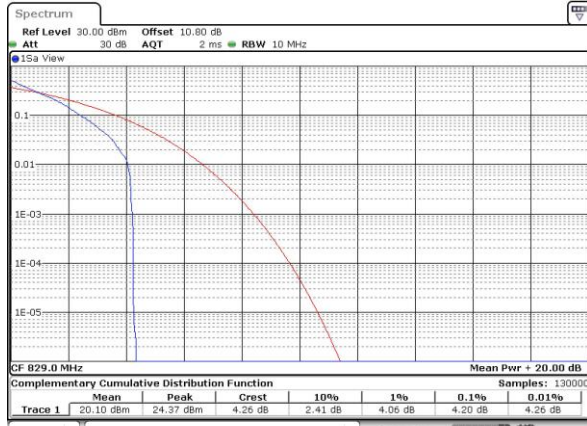
Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

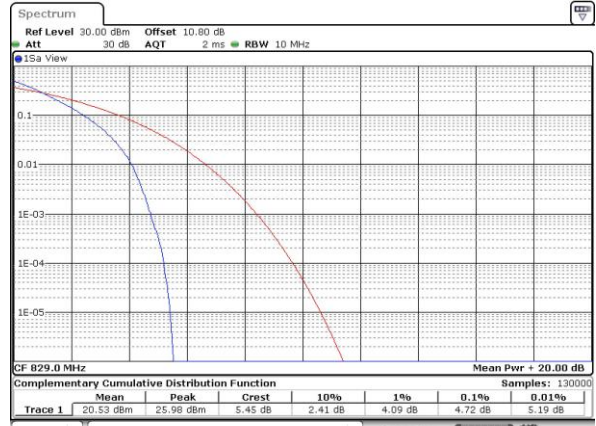
1. Normal Voltage =12.0 V. ; Battery End Point (BEP) =10.8 V. ; Maximum Voltage =13.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

**LTE Band 5****Peak-to-Average Ratio**

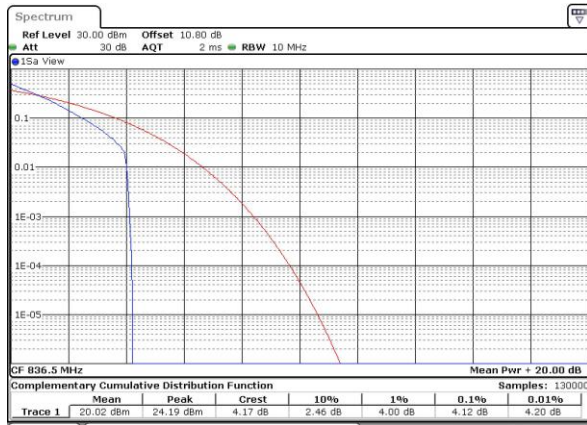
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.20	4.72	-	-	PASS
Middle CH	4.12	4.72	-	-	
Highest CH	4.03	4.61	-	-	

LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB


Date: 15 JUL 2018 20:04:54

Lowest Channel / Full RB


Date: 15 JUL 2018 20:05:04

Middle Channel / 1RB


Date: 15 JUL 2018 20:05:14

Middle Channel / Full RB


Date: 15 JUL 2018 20:05:24

Highest Channel / 1RB


Date: 15 JUL 2018 20:05:33

Highest Channel / Full RB


Date: 15 JUL 2018 20:05:43

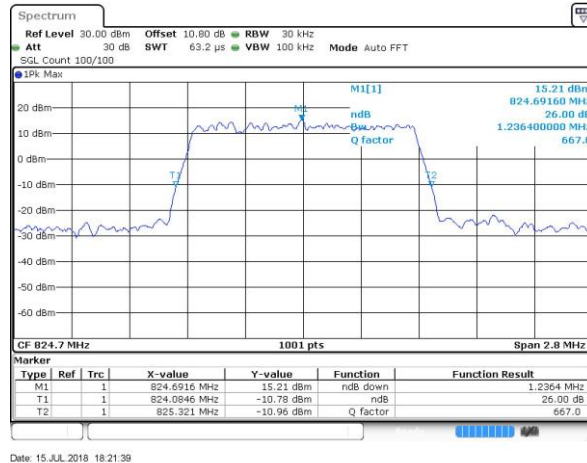
**26dB Bandwidth**

Mode	LTE Band 5 : 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	1.24	-	3.03	-	4.92	-	9.77	-	-	-	-	-
Middle CH	1.23	-	3.01	-	4.87	-	9.95	-	-	-	-	-
Highest CH	1.23	-	3.06	-	4.89	-	9.89	-	-	-	-	-

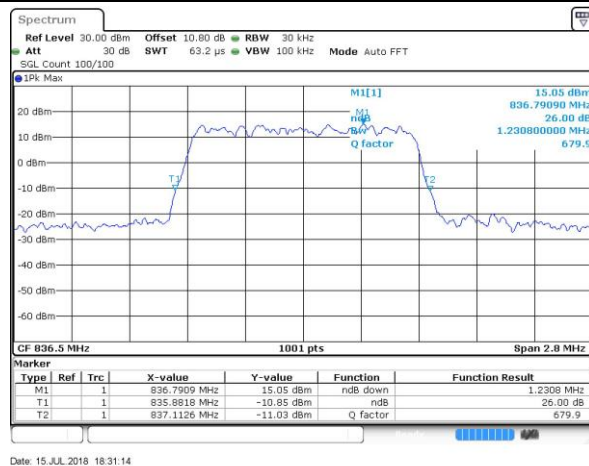


LTE Band 5

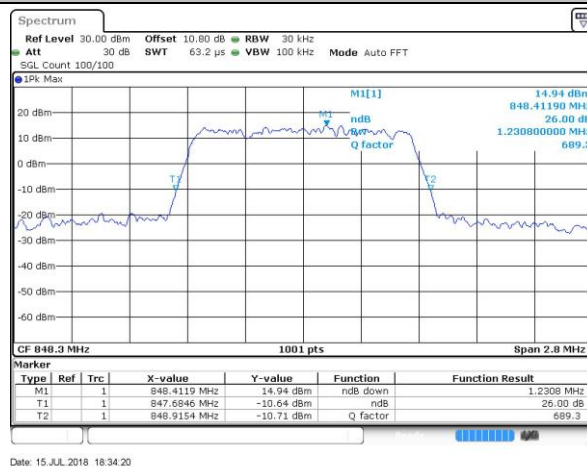
Lowest Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / QPSK



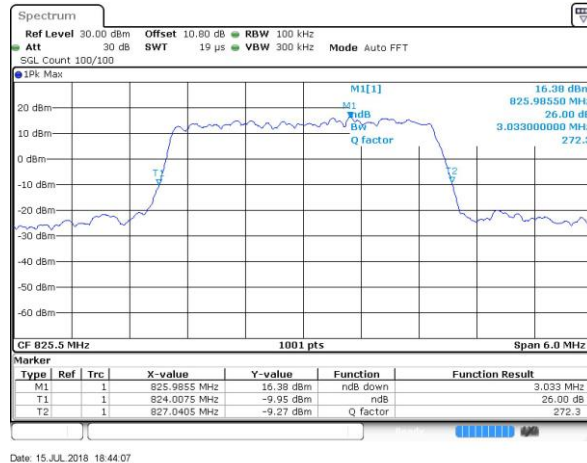
Highest Channel / 1.4MHz / QPSK



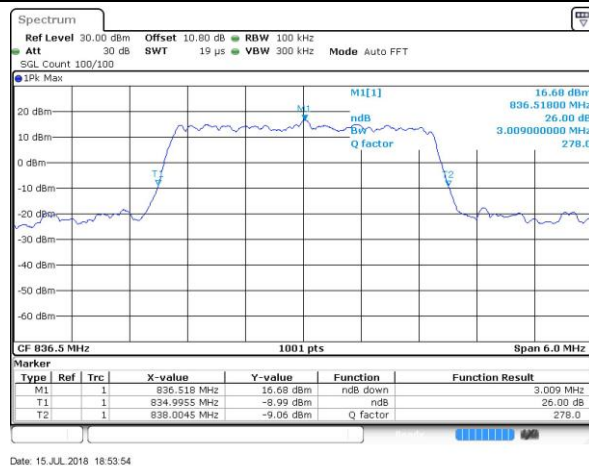


LTE Band 5

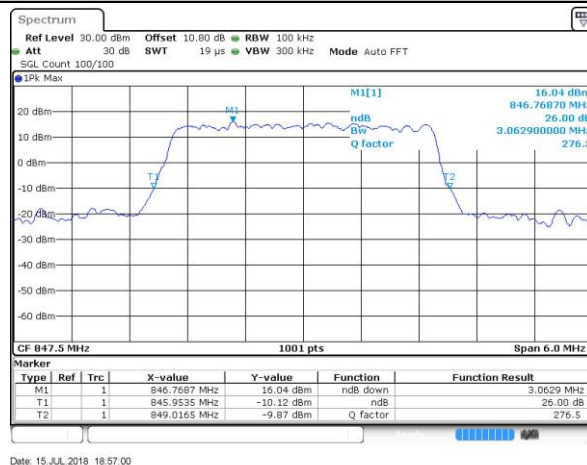
Lowest Channel / 3MHz / QPSK



Middle Channel / 3MHz / QPSK



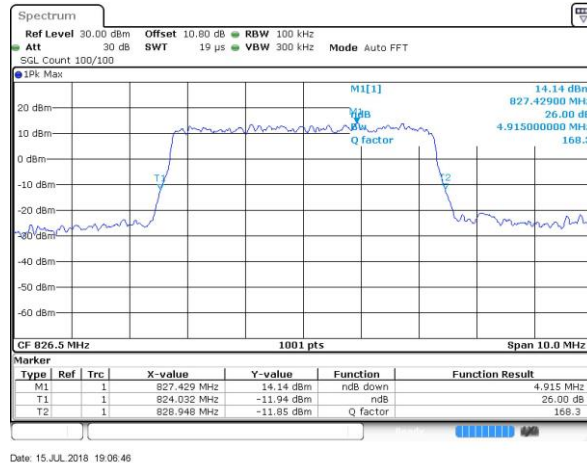
Highest Channel / 3MHz / QPSK



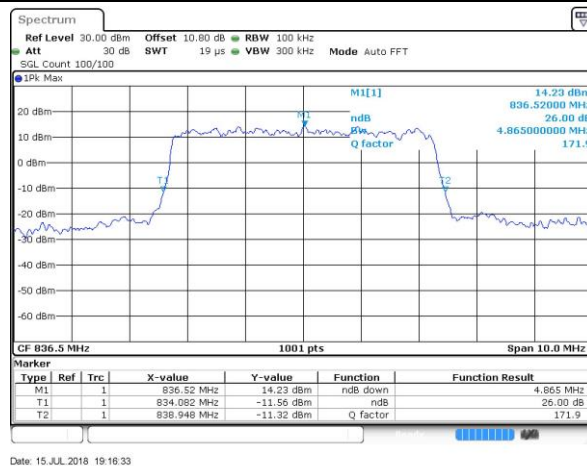


LTE Band 5

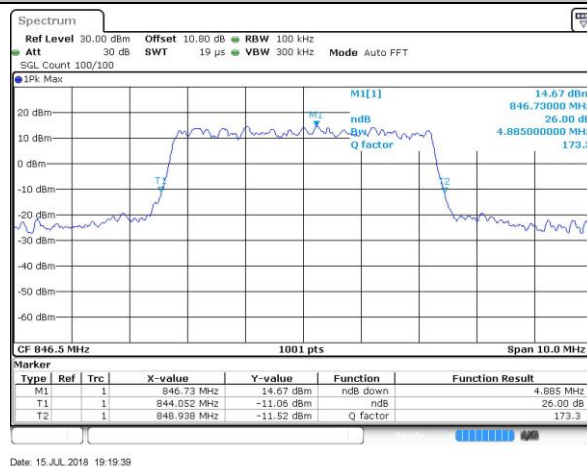
Lowest Channel / 5MHz / QPSK



Middle Channel / 5MHz / QPSK



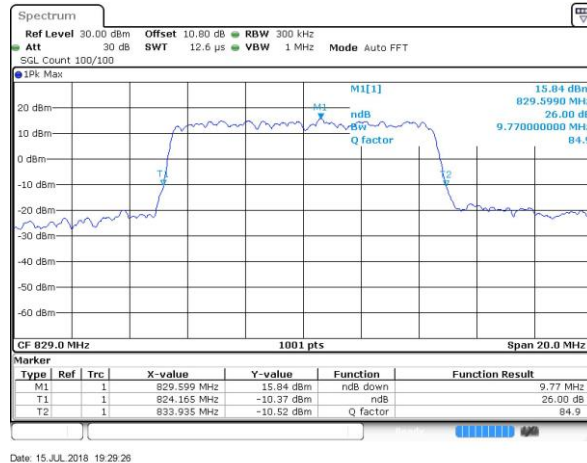
Highest Channel / 5MHz / QPSK



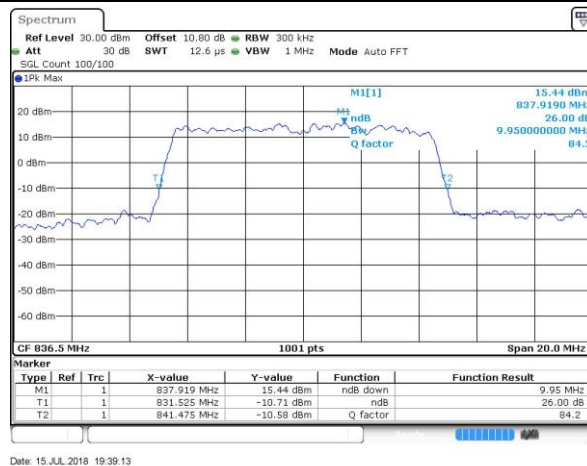


LTE Band 5

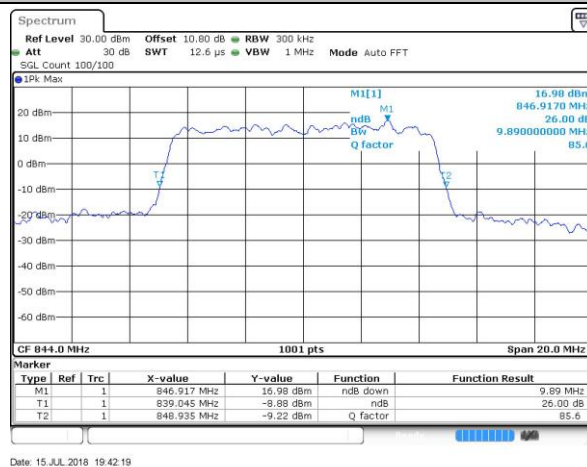
Lowest Channel / 10MHz / QPSK



Middle Channel / 10MHz / QPSK

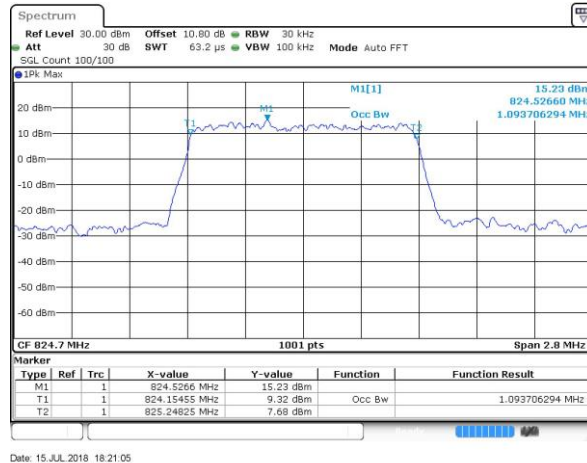
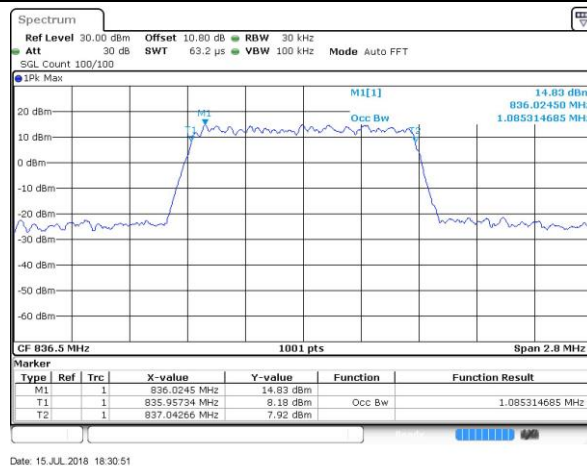
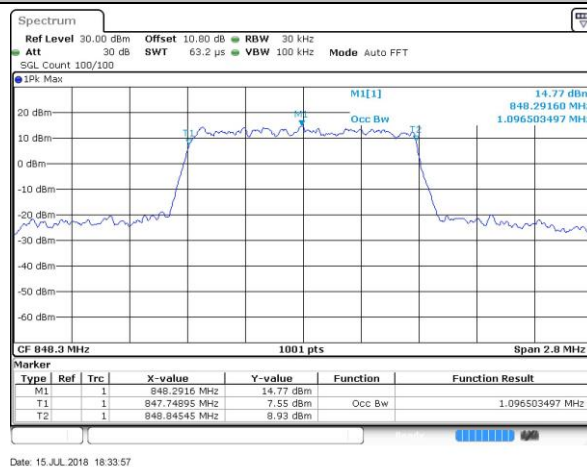


Highest Channel / 10MHz / QPSK



**Occupied Bandwidth**

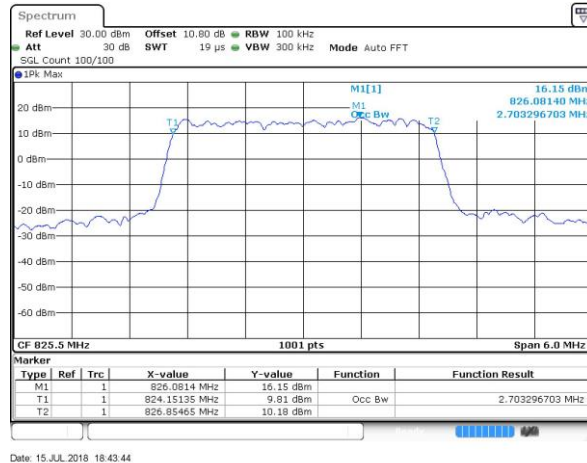
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	-	2.70	-	4.49	-	9.05	-	-	-	-	-
Middle CH	1.09	-	2.72	-	4.48	-	9.01	-	-	-	-	-
Highest CH	1.10	-	2.72	-	4.47	-	9.05	-	-	-	-	-

LTE Band 5
Lowest Channel / 1.4MHz / QPSK

Middle Channel / 1.4MHz / QPSK

Highest Channel / 1.4MHz / QPSK


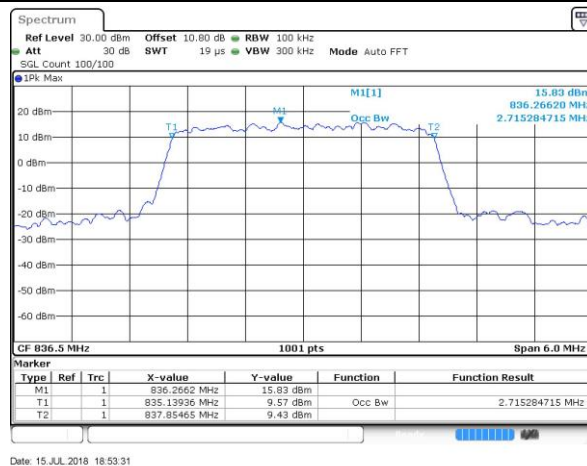


LTE Band 5

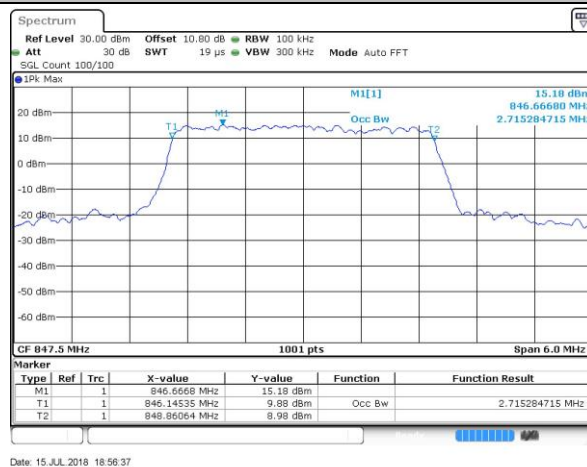
Lowest Channel / 3MHz / QPSK



Middle Channel / 3MHz / QPSK



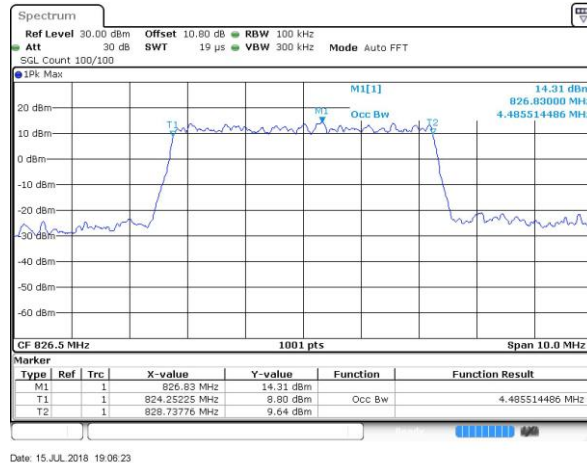
Highest Channel / 3MHz / QPSK



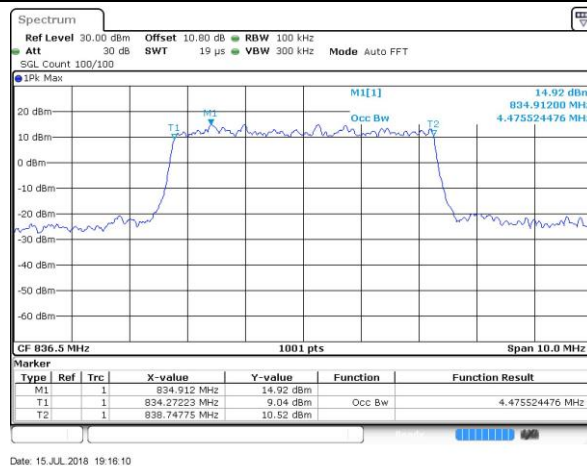


LTE Band 5

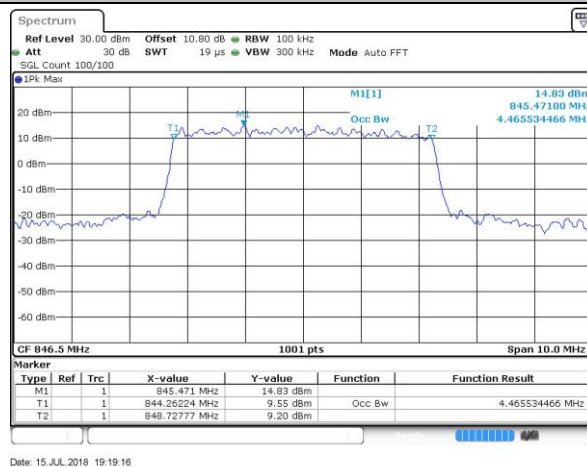
Lowest Channel / 5MHz / QPSK



Middle Channel / 5MHz / QPSK



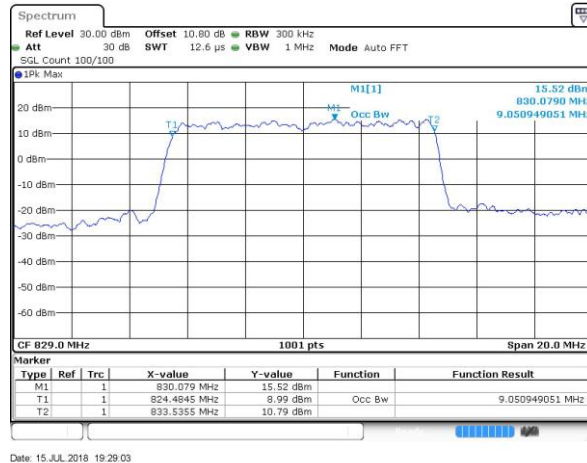
Highest Channel / 5MHz / QPSK



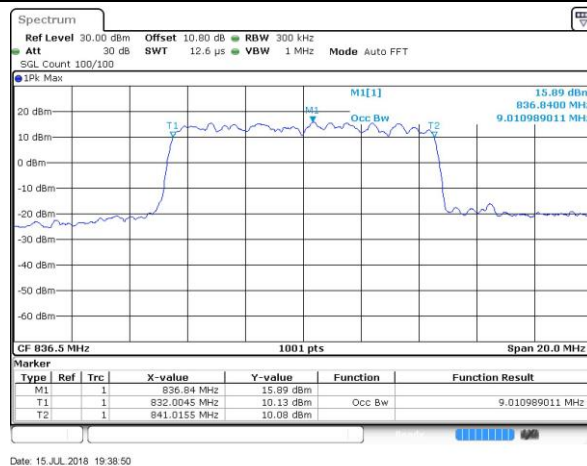


LTE Band 5

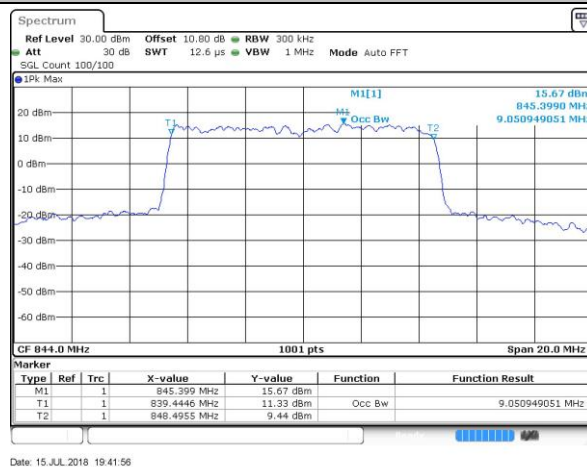
Lowest Channel / 10MHz / QPSK

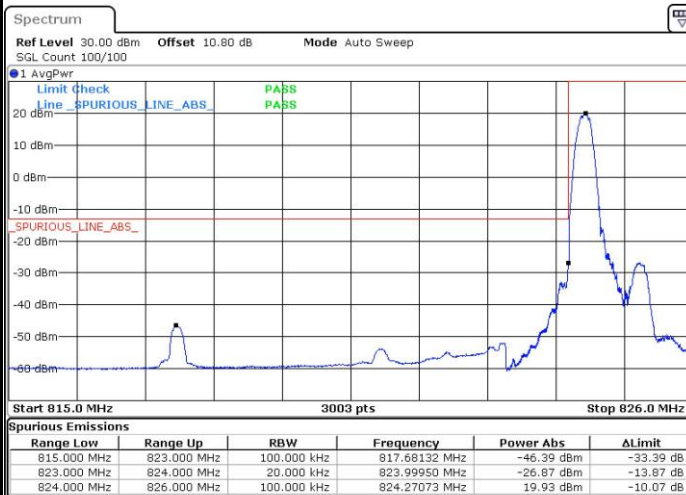
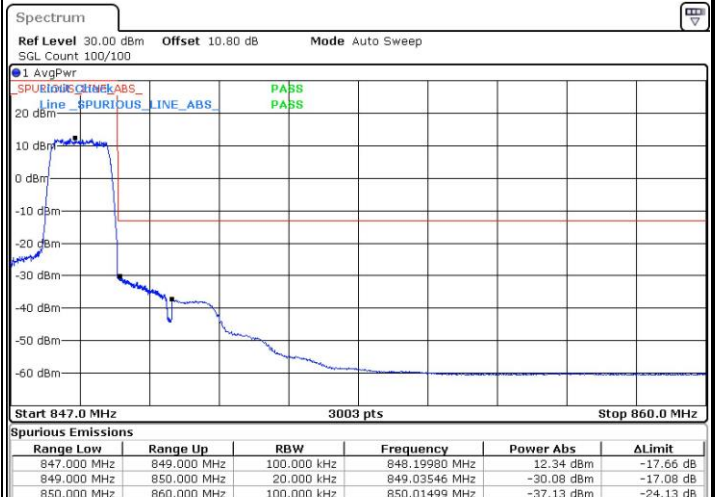


Middle Channel / 10MHz / QPSK



Highest Channel / 10MHz / QPSK

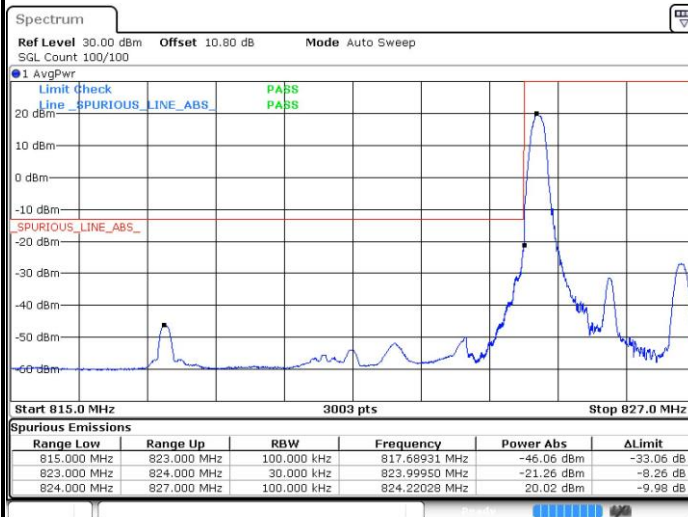


**Conducted Band Edge****LTE Band 5 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

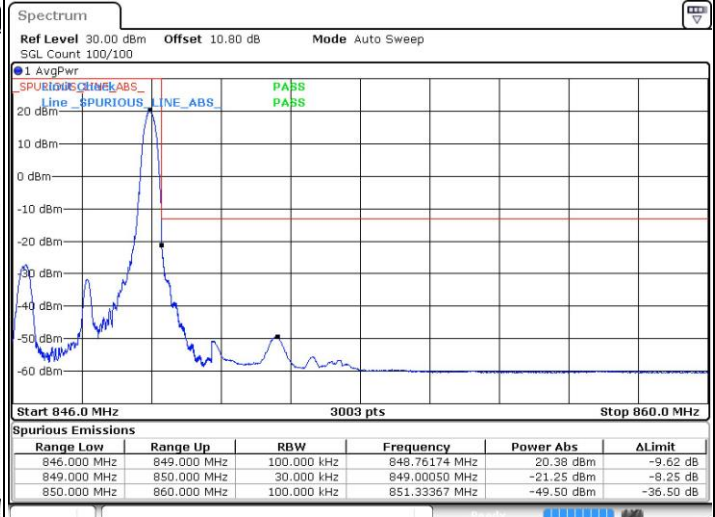


LTE Band 5 / 3MHz / QPSK

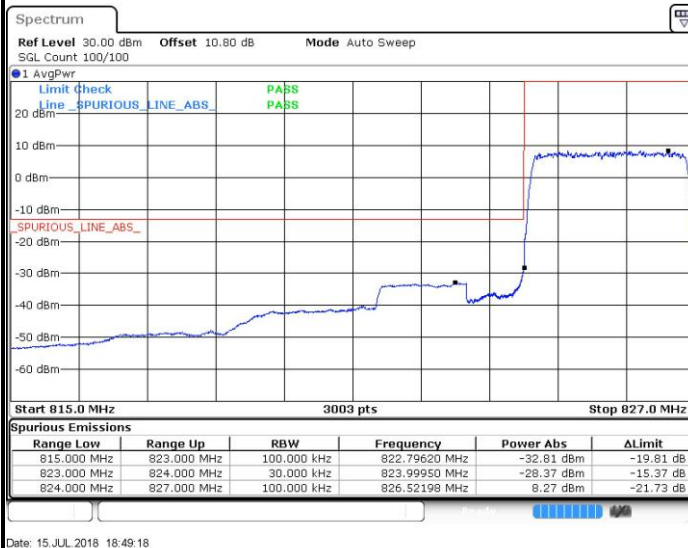
Lowest Band Edge / 1RB



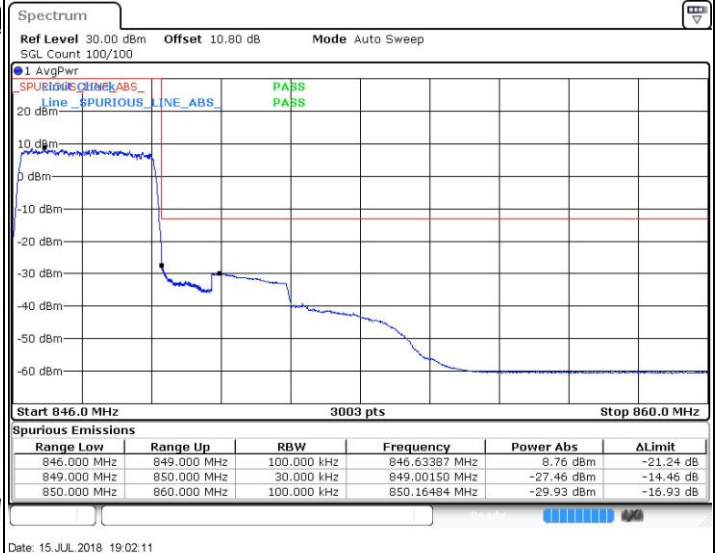
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



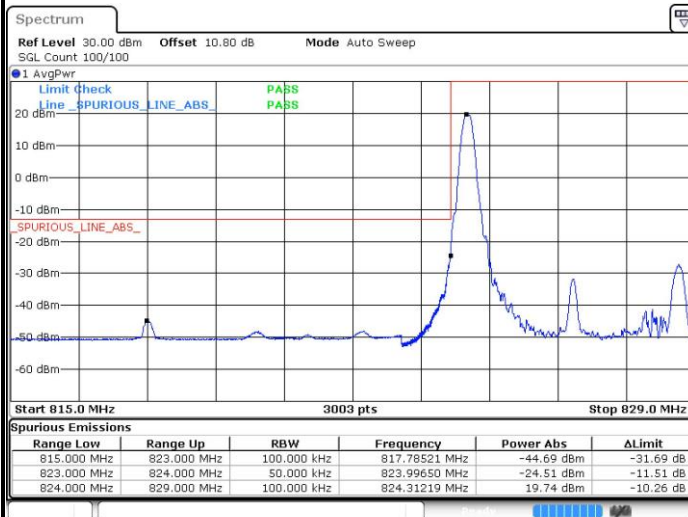
Highest Band Edge / Full RB



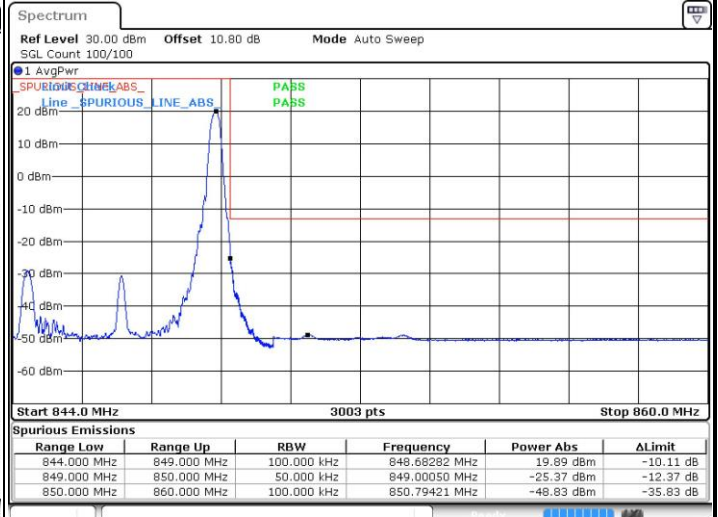


LTE Band 5 / 5MHz / QPSK

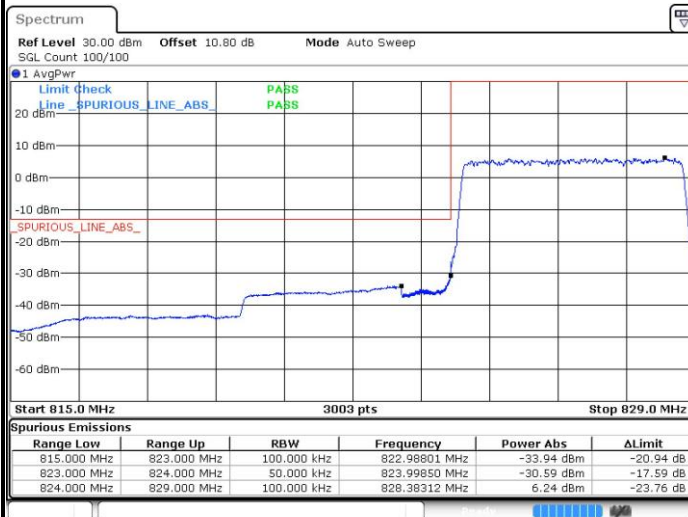
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



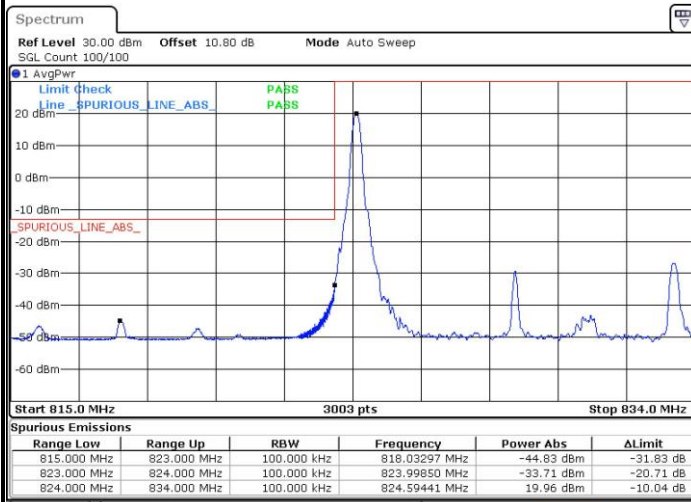
Highest Band Edge / Full RB



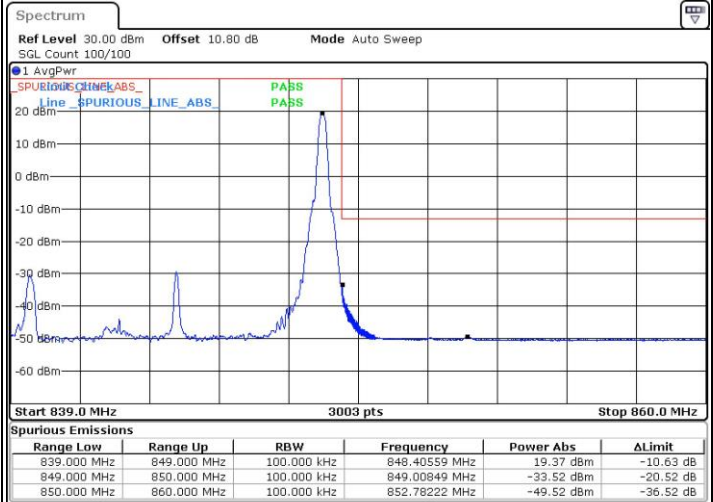


LTE Band 5 / 10MHz / QPSK

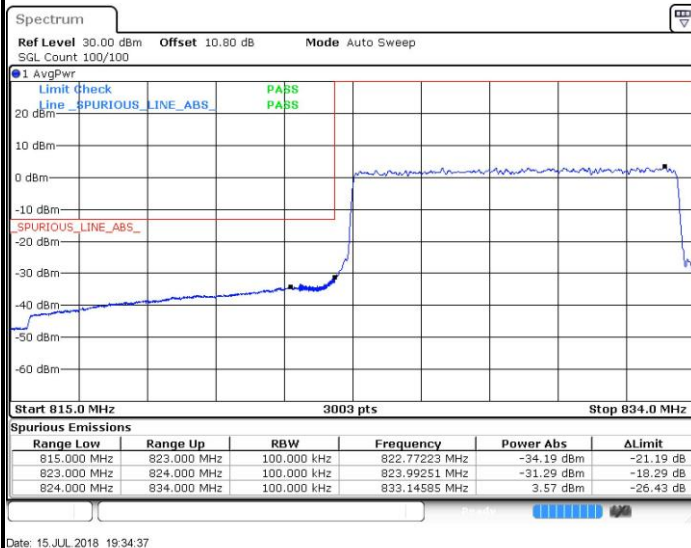
Lowest Band Edge / 1 RB



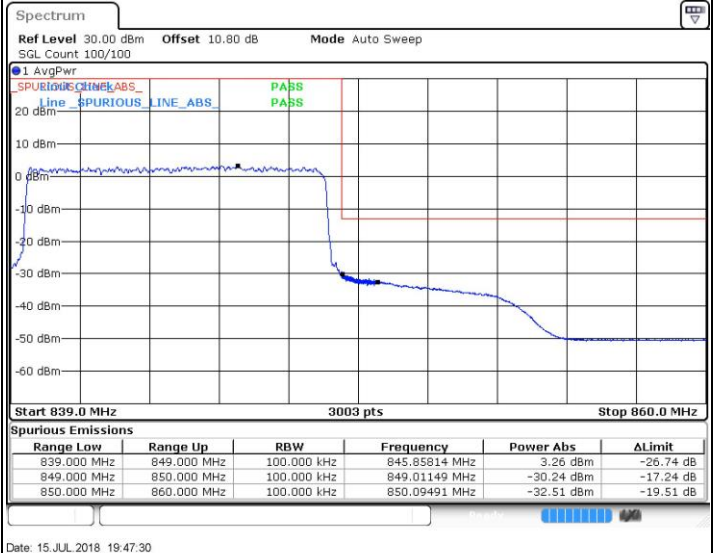
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

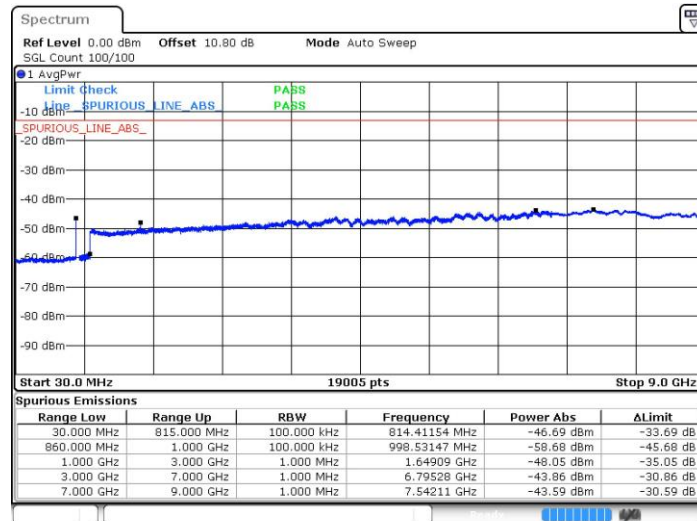




Conducted Spurious Emission

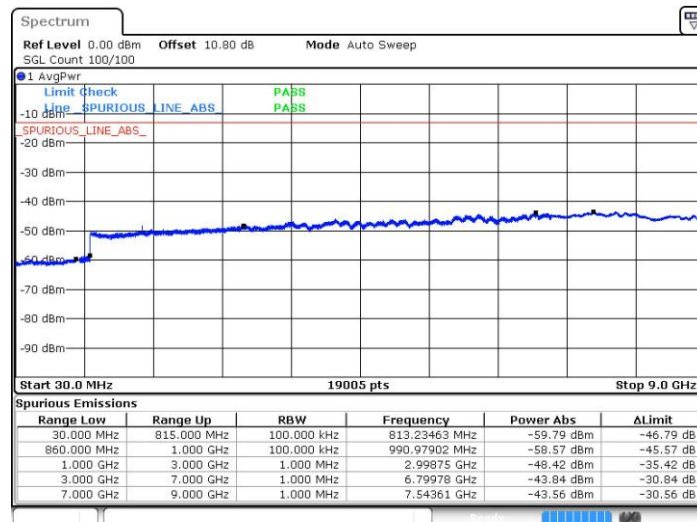
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



Date: 15 JUL 2018 18:29:30

Middle Channel / QPSK

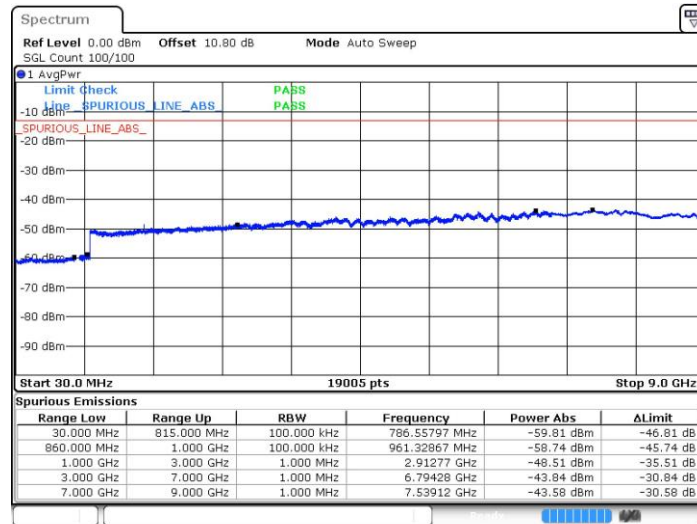


Date: 15 JUL 2018 18:32:36



LTE Band 5 / 1.4MHz

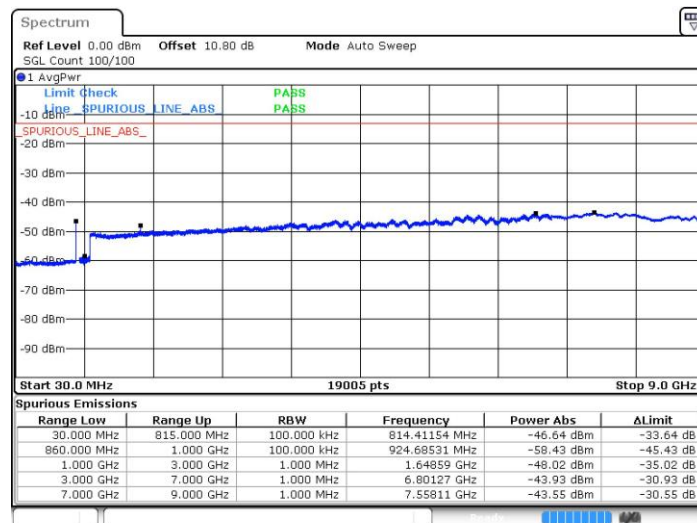
Highest Channel / QPSK



Date: 15 JUL 2018 18:42:23

LTE Band 5 / 3MHz

Lowest Channel / QPSK

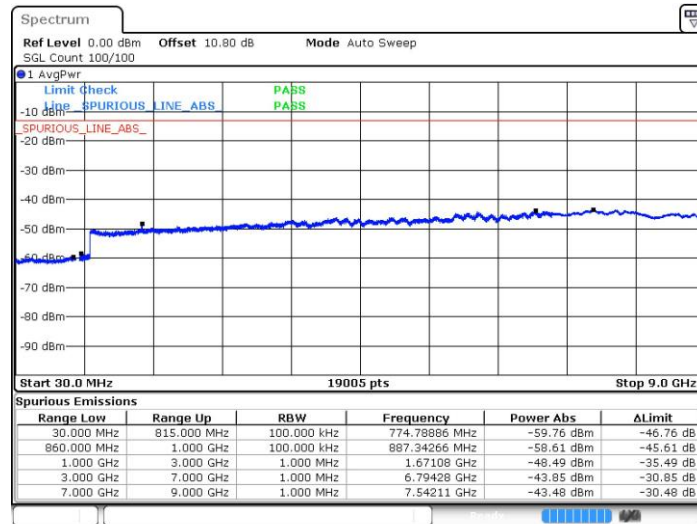


Date: 15 JUL 2018 18:52:09



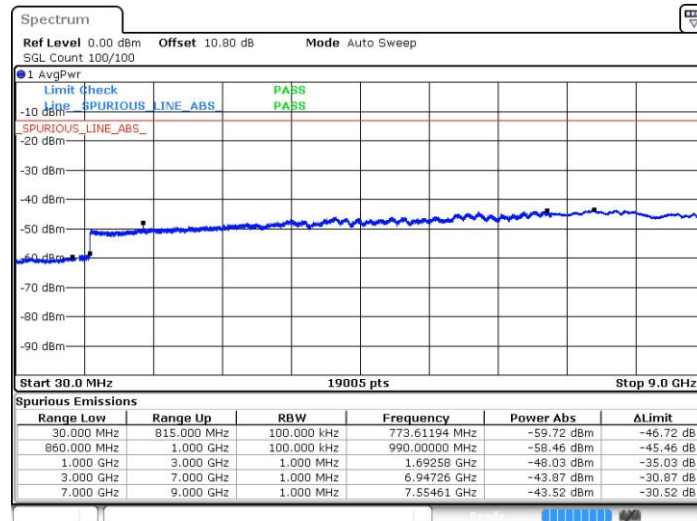
LTE Band 5 / 3MHz

Middle Channel / QPSK



Date: 15 JUL 2018 18:55:15

Highest Channel / QPSK



Date: 15 JUL 2018 19:05:02