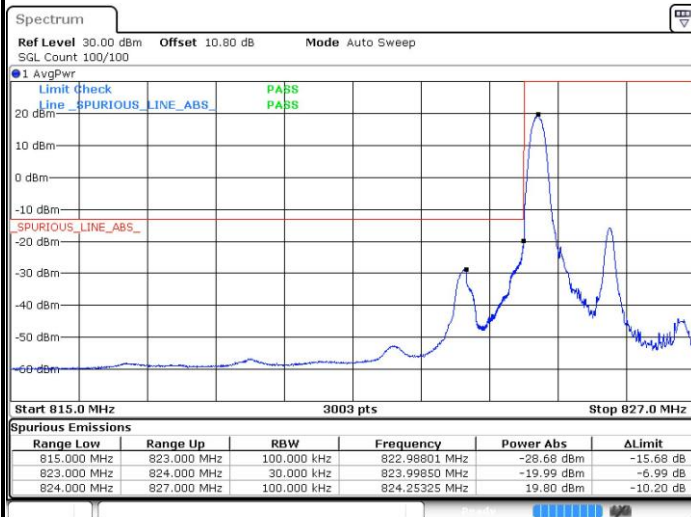




LTE Band 5 / 3MHz / 16QAM

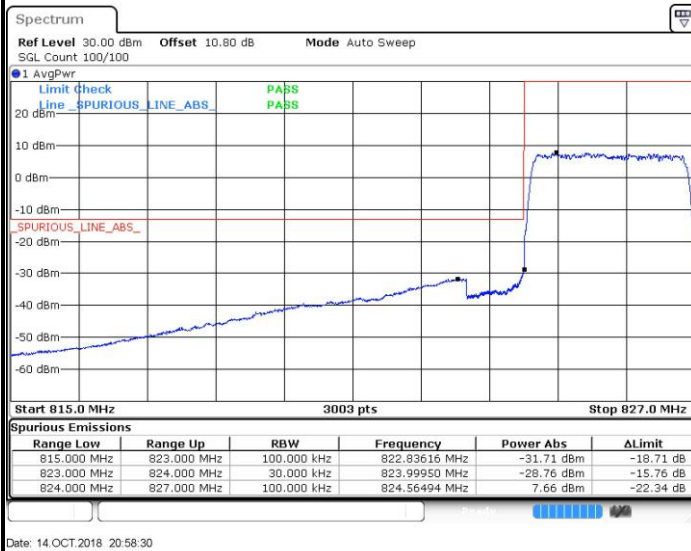
Lowest Band Edge / 1 RB



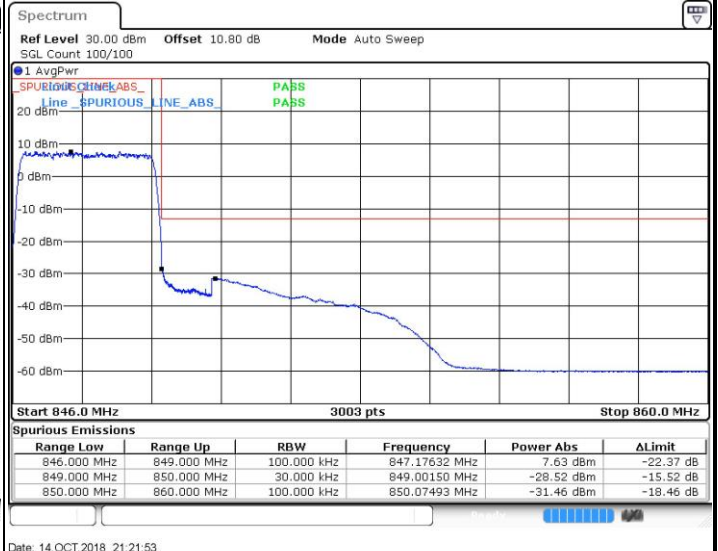
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



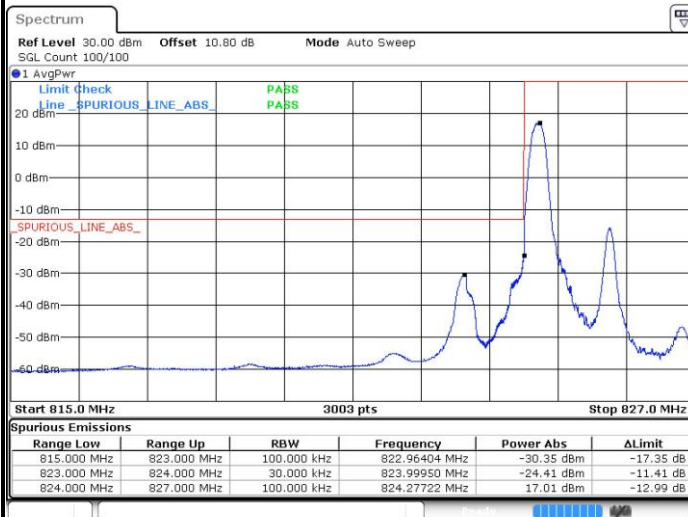
Highest Band Edge / Full RB



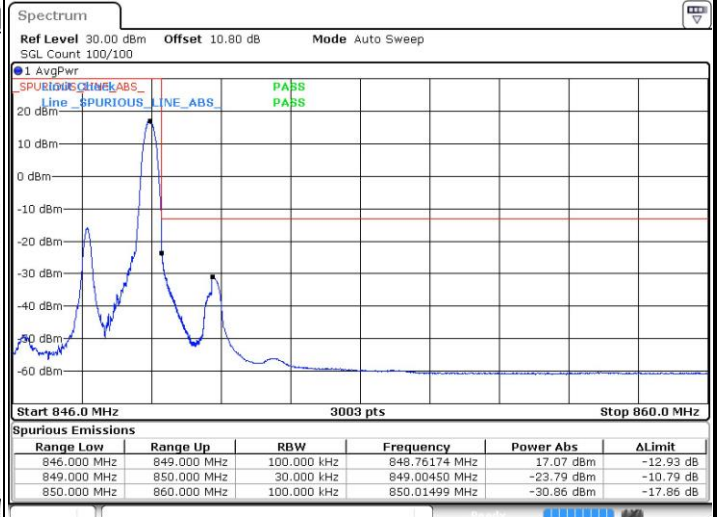


LTE Band 5 / 3MHz / 64QAM

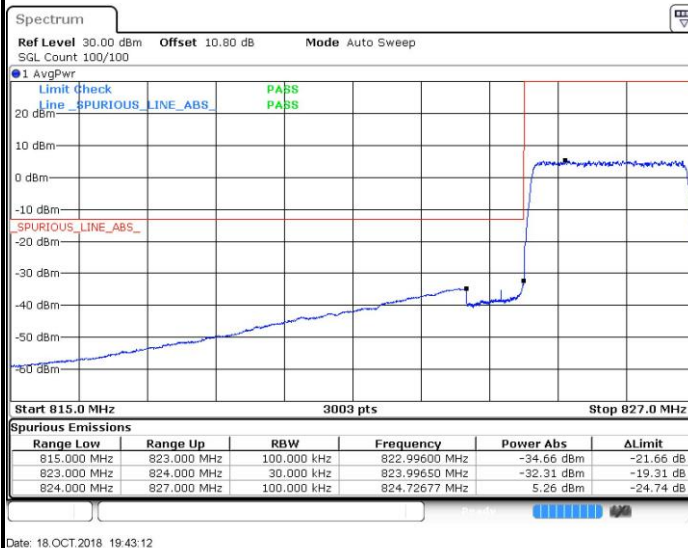
Lowest Band Edge / 1 RB



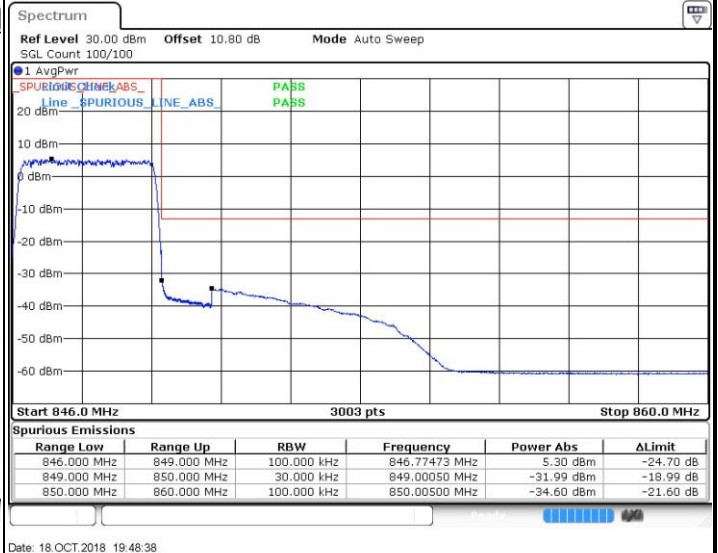
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



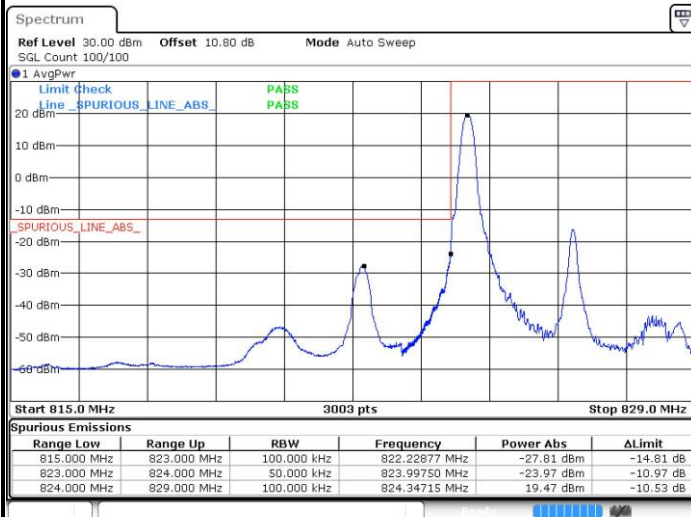
Highest Band Edge / Full RB



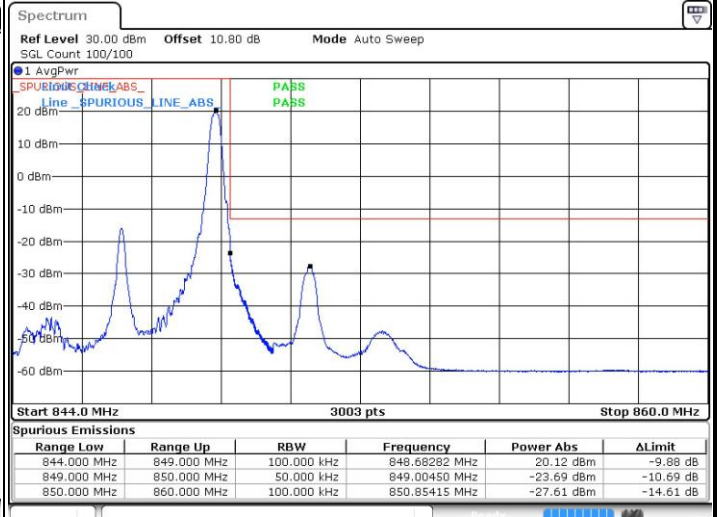


LTE Band 5 / 5MHz / QPSK

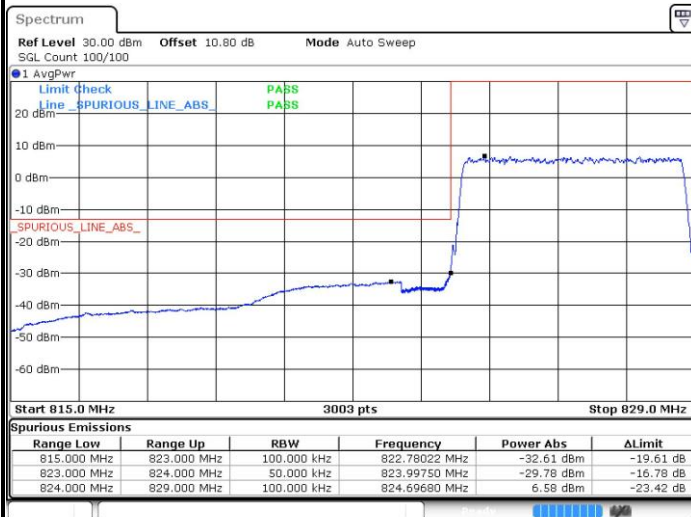
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



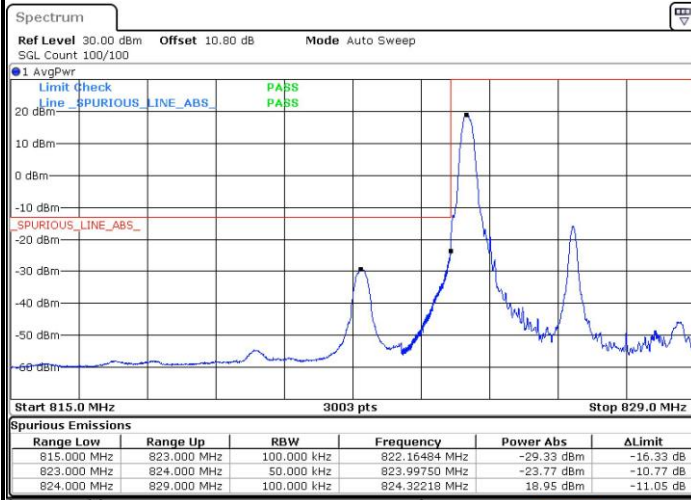
Highest Band Edge / Full RB





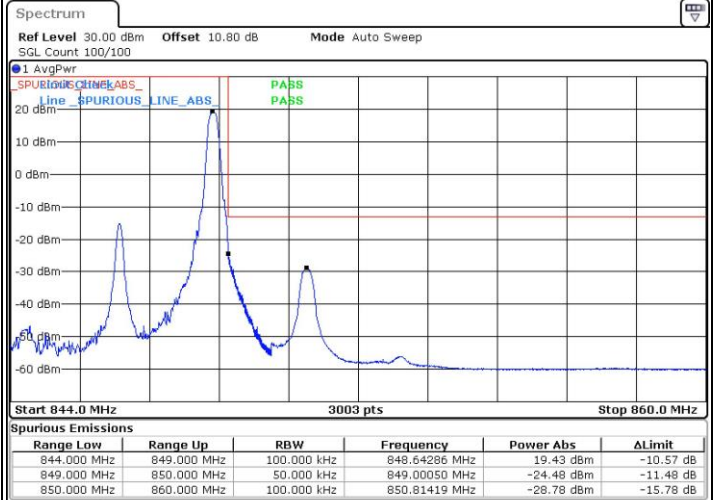
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



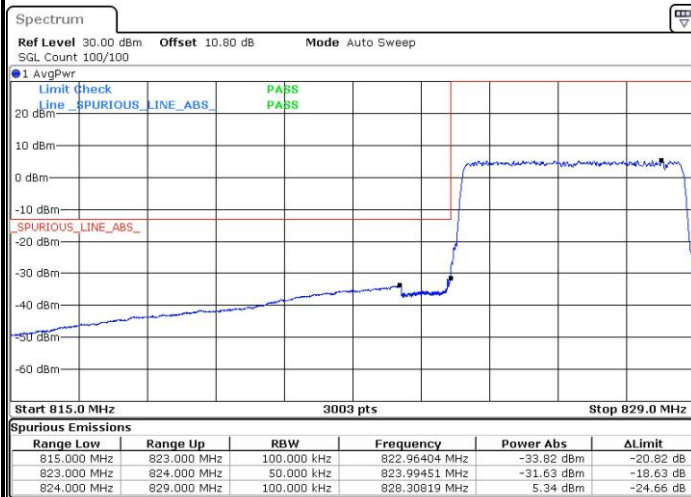
Date: 14.OCT.2018 21:27:10

Highest Band Edge / 1 RB



Date: 14.OCT.2018 21:37:42

Lowest Band Edge / Full RB



Date: 14.OCT.2018 21:30:30

Highest Band Edge / Full RB

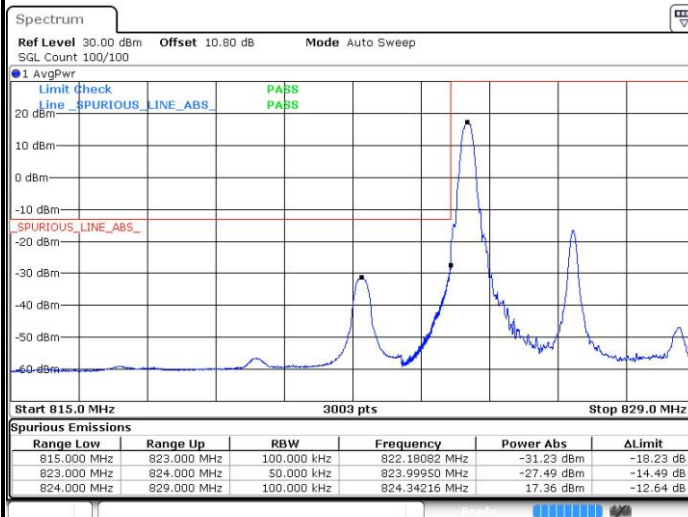


Date: 14.OCT.2018 21:41:02

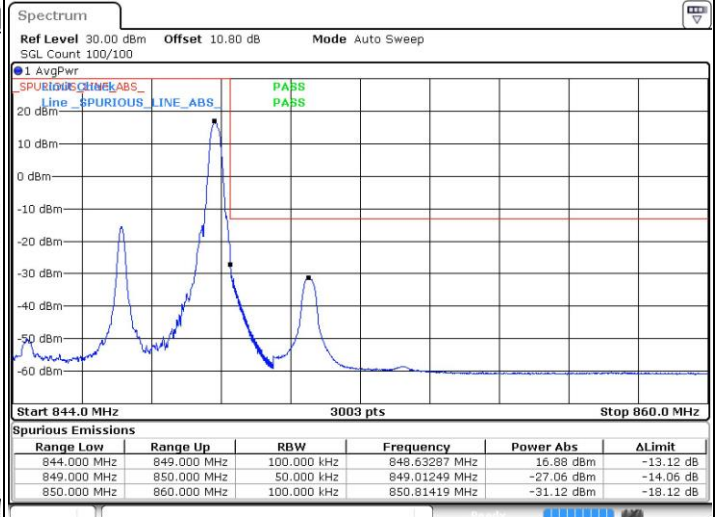


LTE Band 5 / 5MHz / 64QAM

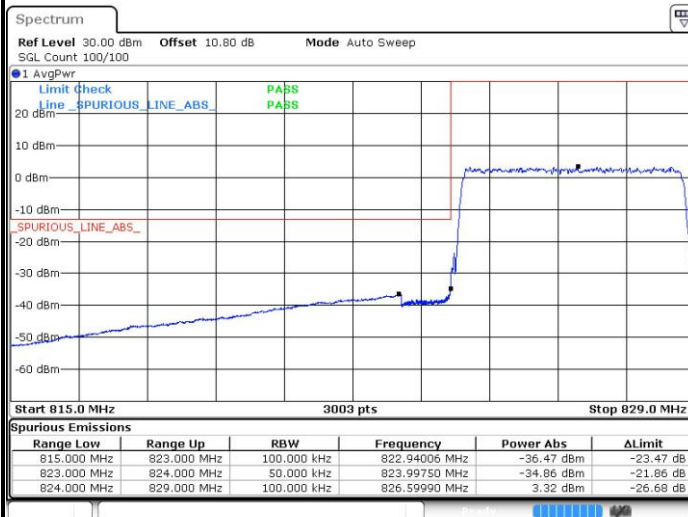
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



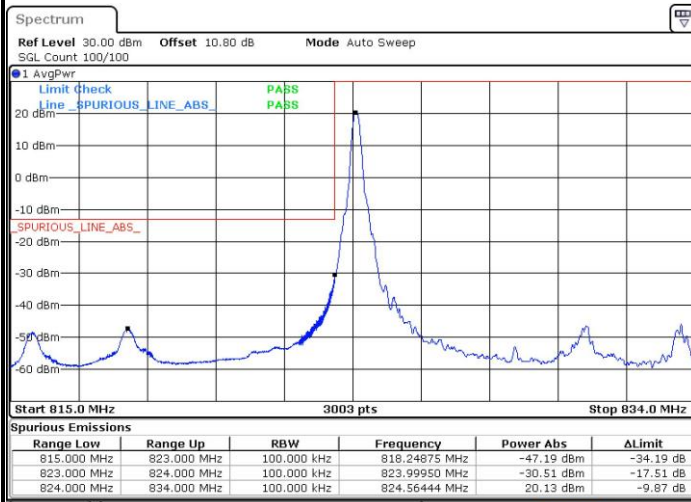
Highest Band Edge / Full RB



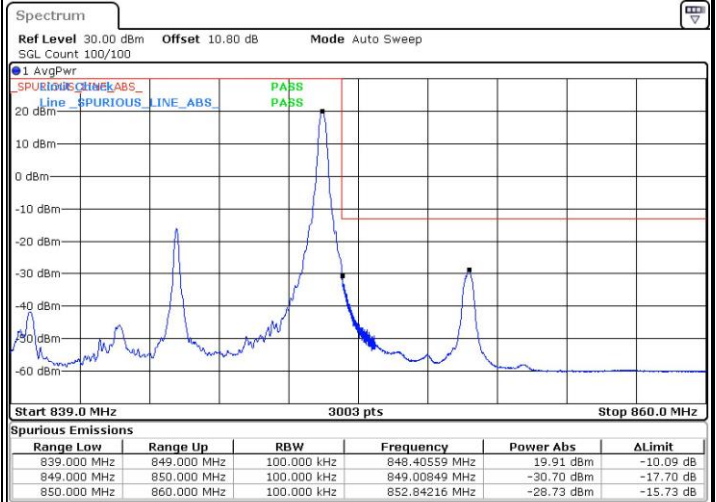


LTE Band 5 / 10MHz / QPSK

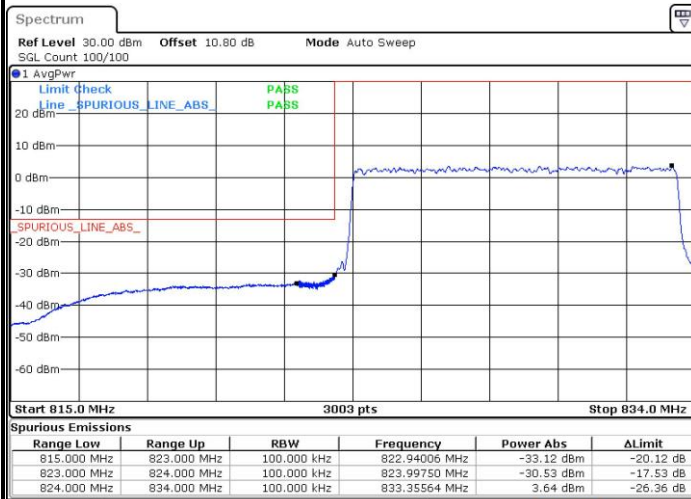
Lowest Band Edge / 1 RB



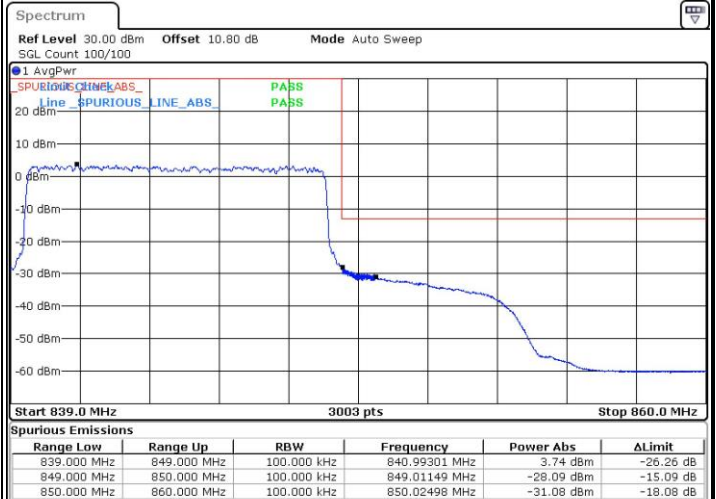
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



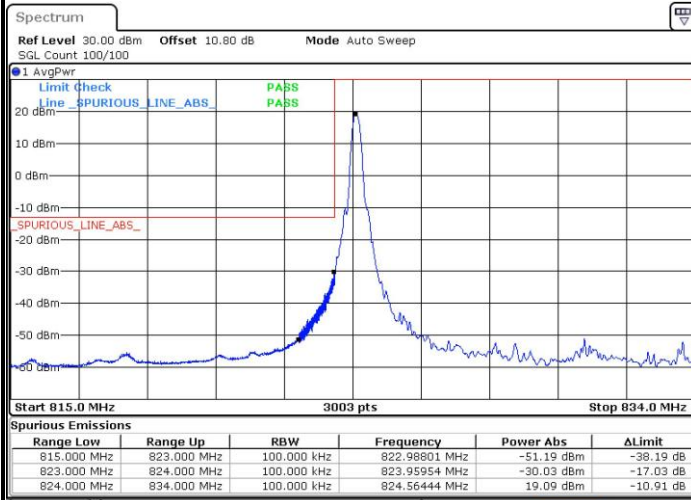
Highest Band Edge / Full RB



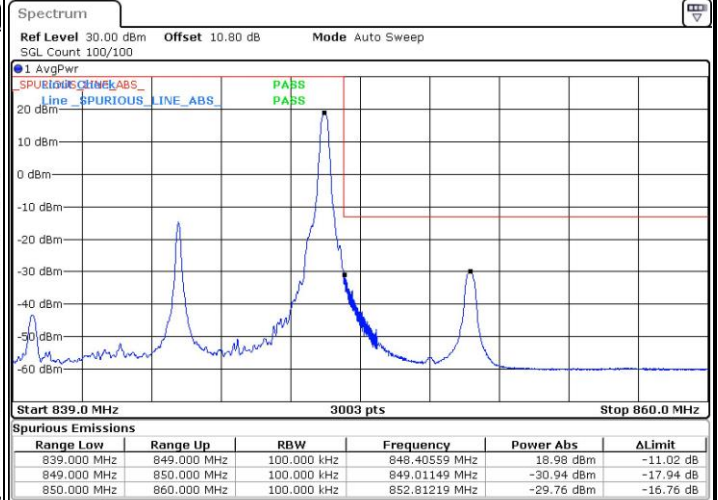


LTE Band 5 / 10MHz / 16QAM

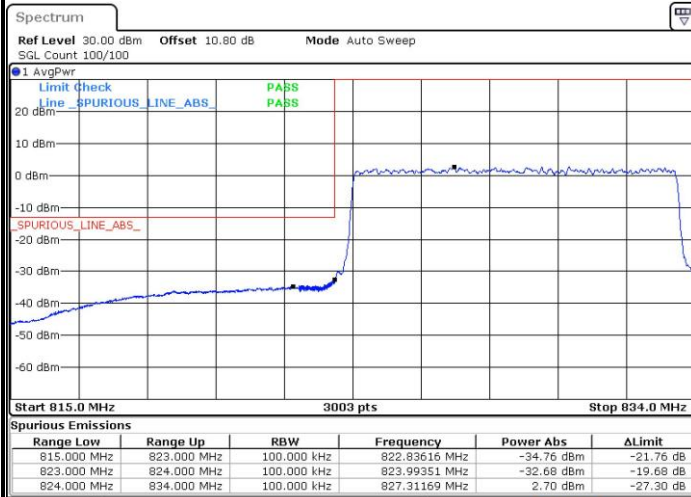
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



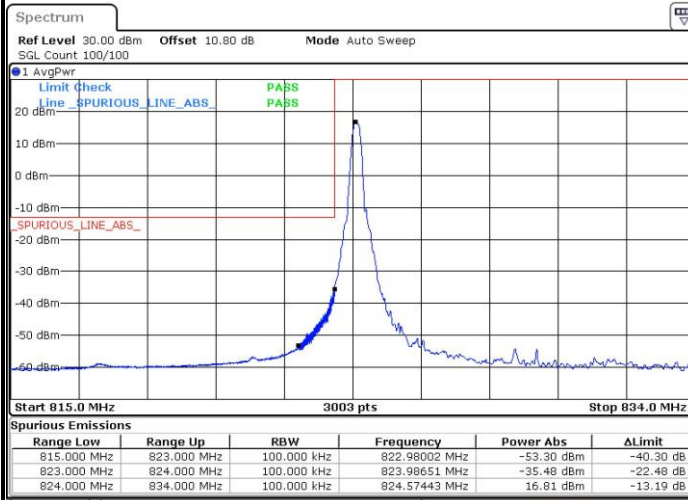
Highest Band Edge / Full RB



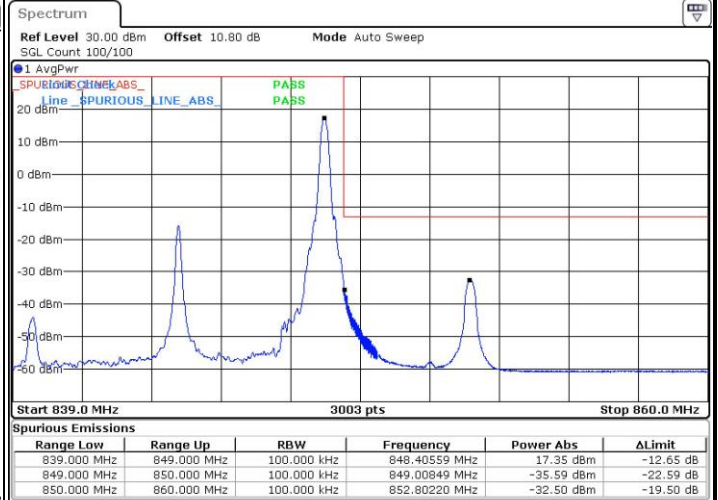


LTE Band 5 / 10MHz / 64QAM

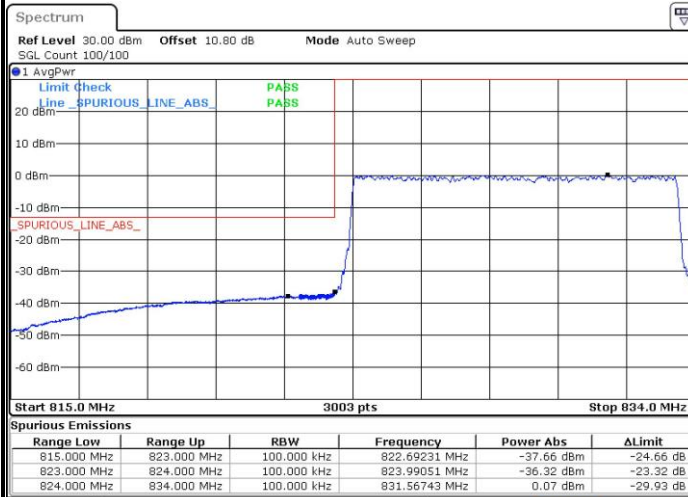
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

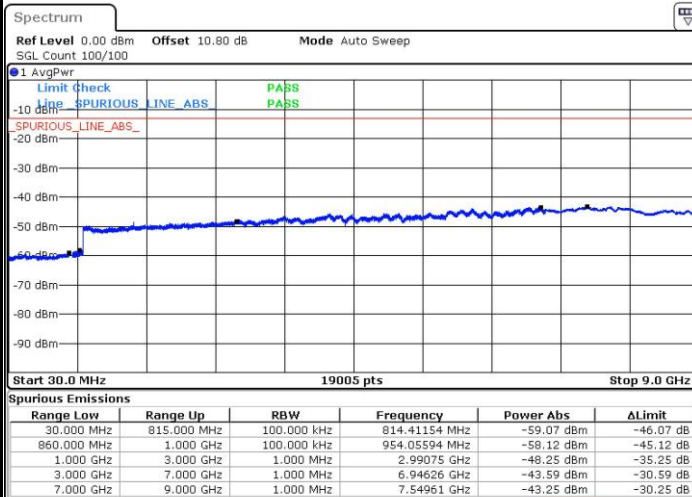




Conducted Spurious Emission

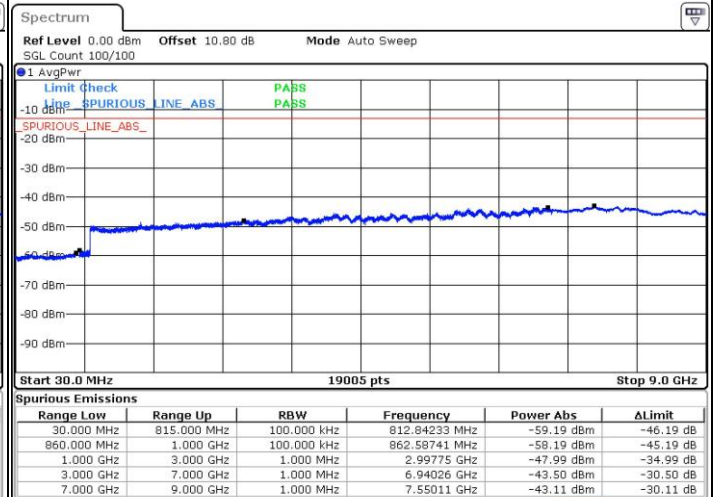
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



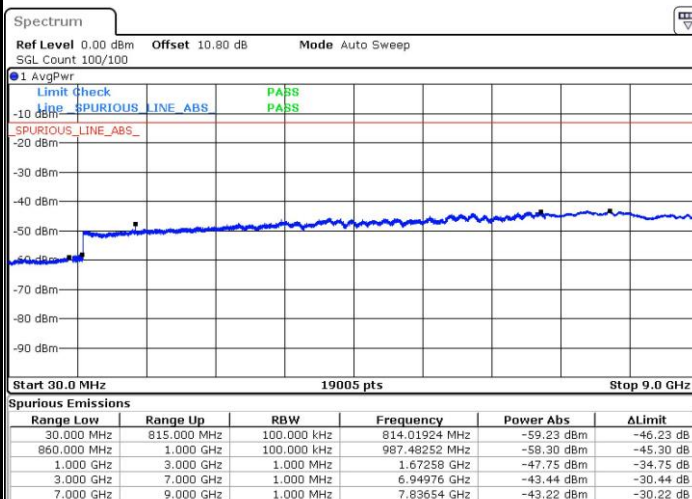
Date: 16.OCT.2018 01:22:18

Lowest Channel / 16QAM



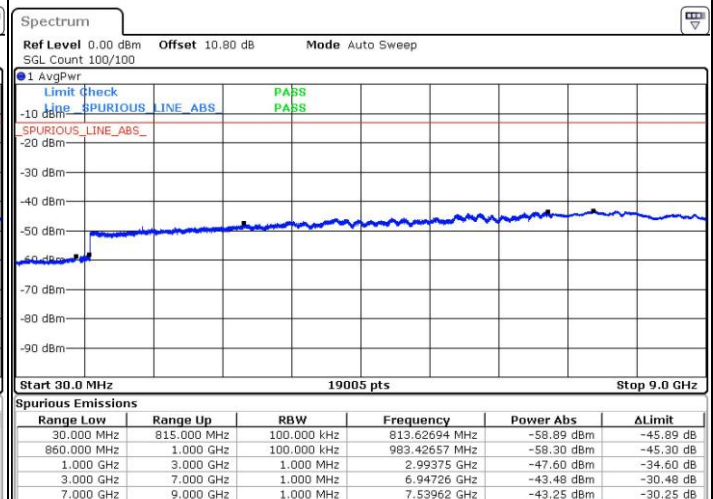
Date: 16.OCT.2018 01:23:09

Middle Channel / QPSK



Date: 16.OCT.2018 01:24:44

Middle Channel / 16QAM

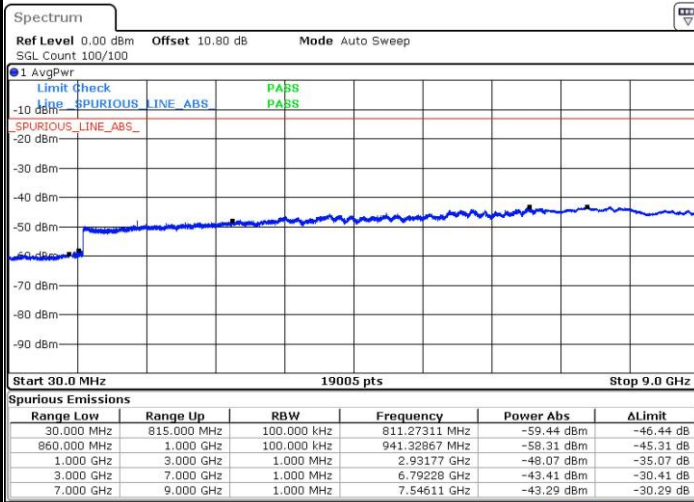


Date: 16.OCT.2018 01:25:34



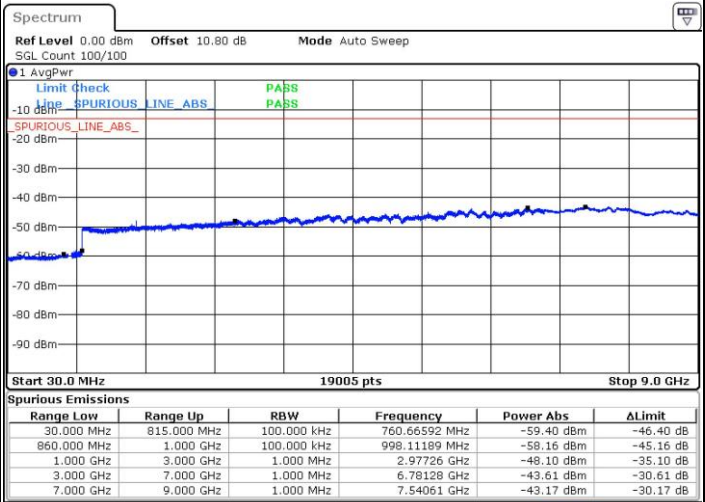
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 16.OCT.2018 01:33:51

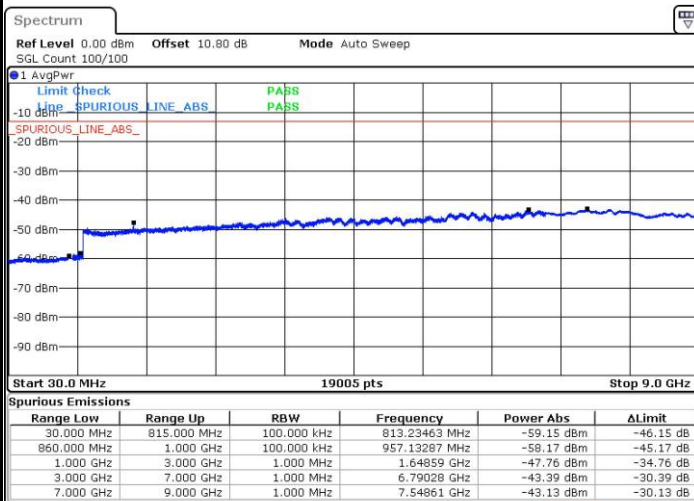
Highest Channel / 16QAM



Date: 16.OCT.2018 01:34:41

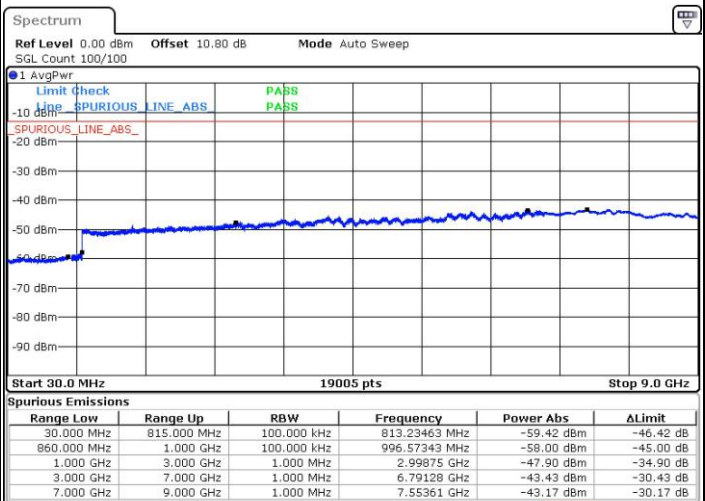
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 14.OCT.2018 20:59:21

Lowest Channel / 16QAM

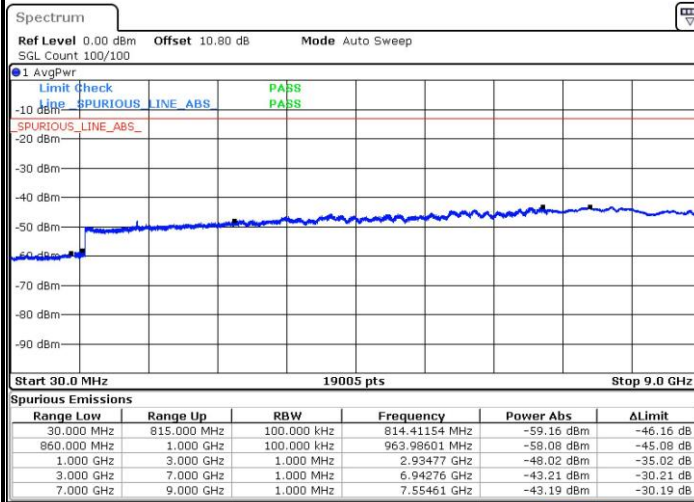


Date: 14.OCT.2018 21:00:11



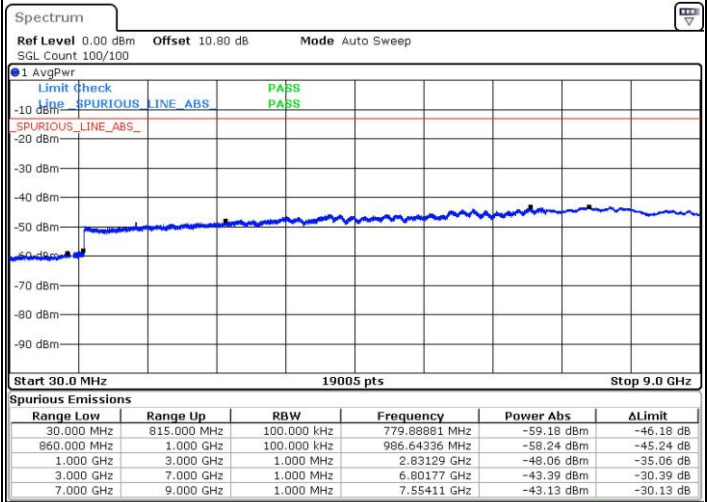
LTE Band 5 / 3MHz

Middle Channel / QPSK



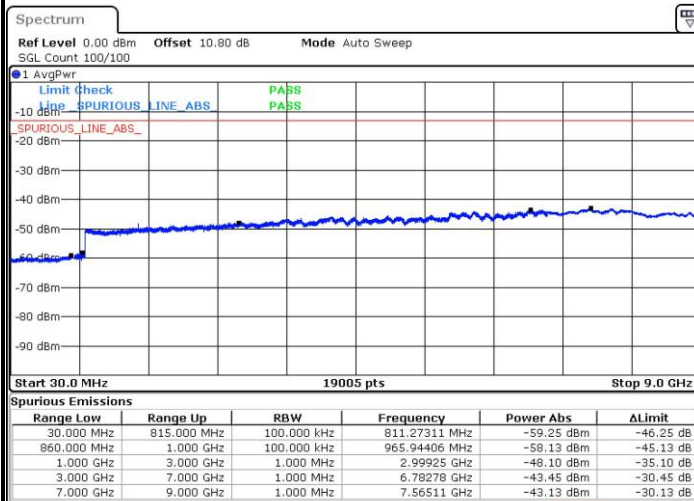
Date: 14.OCT.2018 21:01:47

Middle Channel / 16QAM



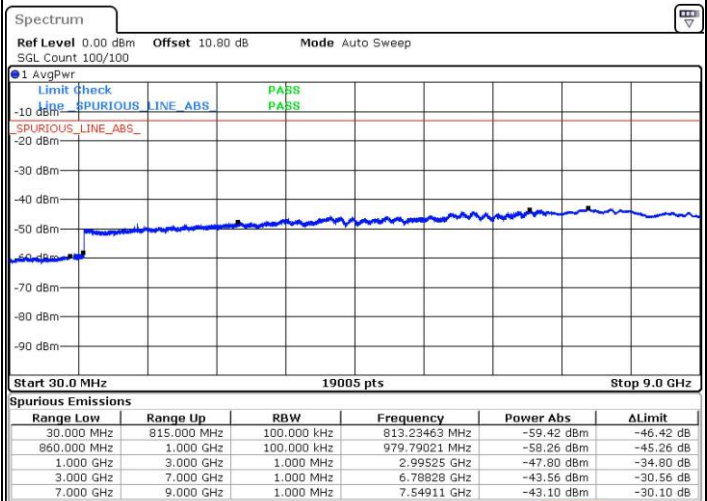
Date: 14.OCT.2018 21:02:37

Highest Channel / QPSK



Date: 14.OCT.2018 21:22:29

Highest Channel / 16QAM

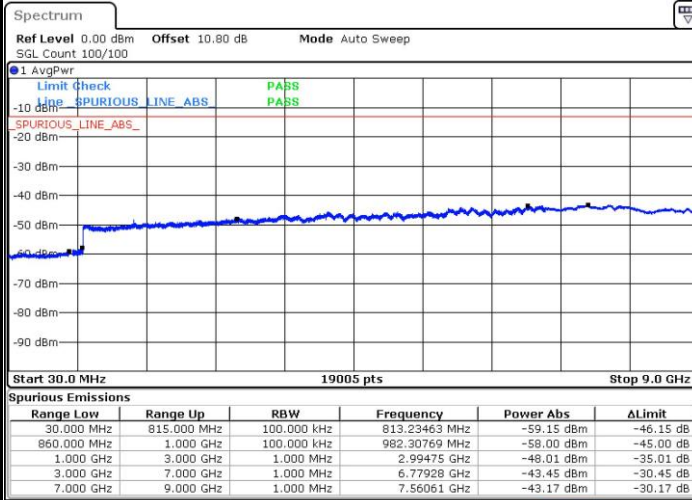


Date: 14.OCT.2018 21:23:04



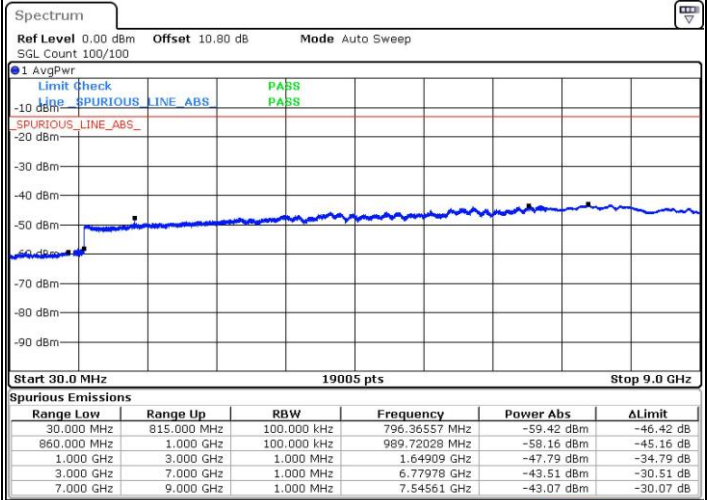
LTE Band 5 / 5MHz

Lowest Channel / QPSK



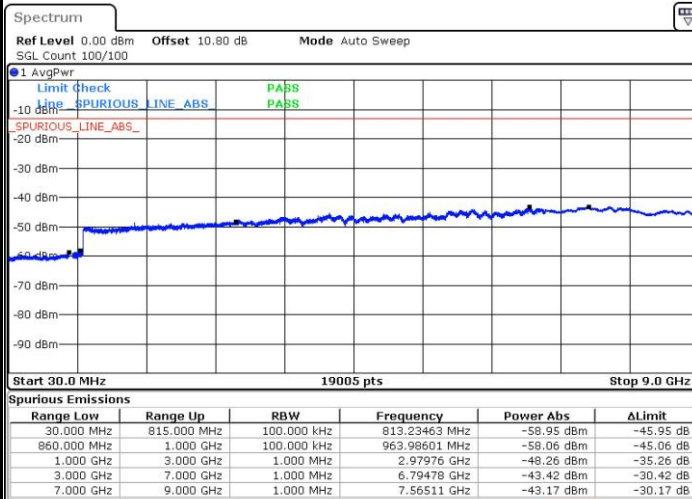
Date: 14.OCT.2018 21:31:06

Lowest Channel / 16QAM



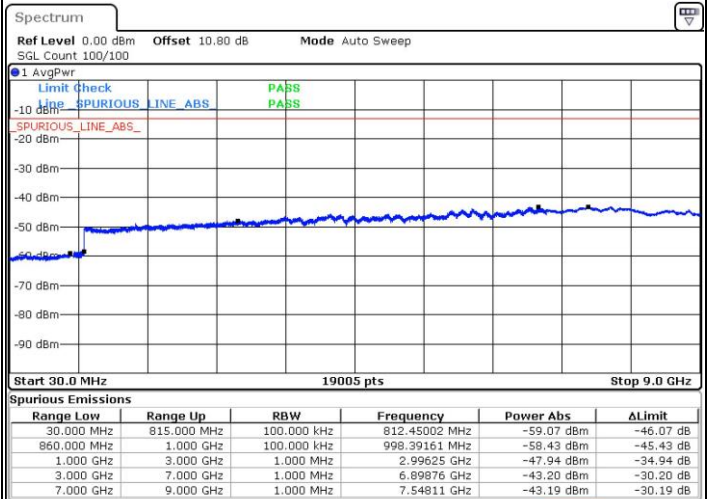
Date: 14.OCT.2018 21:31:41

Middle Channel / QPSK



Date: 14.OCT.2018 21:33:02

Middle Channel / 16QAM

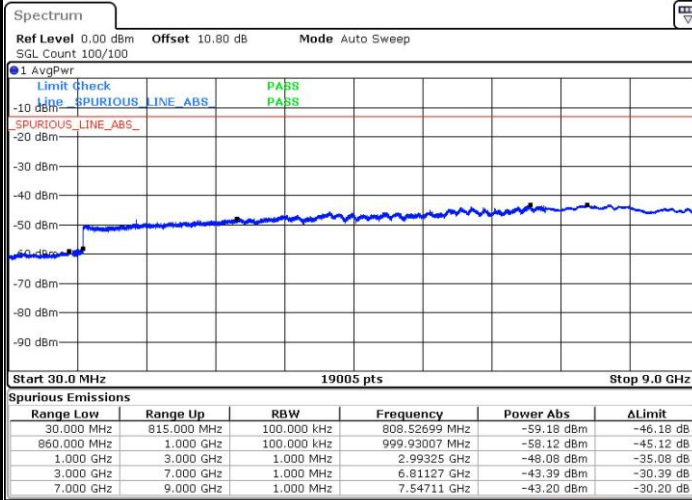


Date: 14.OCT.2018 21:33:37



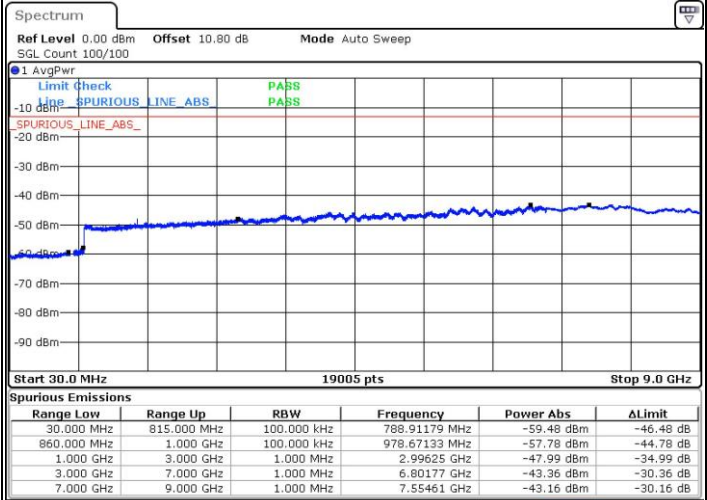
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 14.OCT.2018 21:41:38

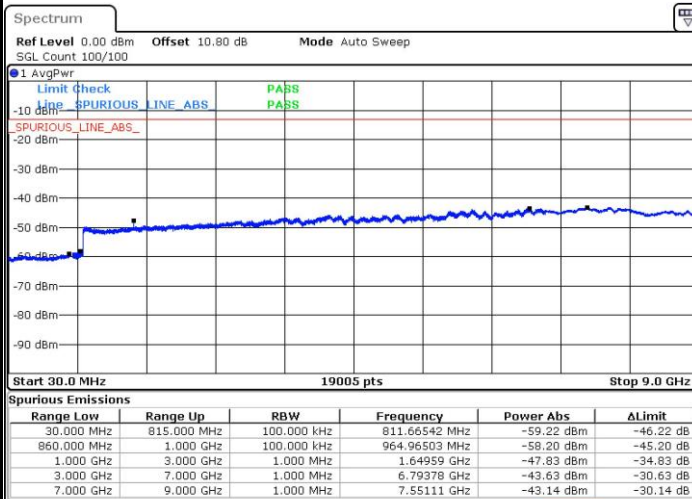
Highest Channel / 16QAM



Date: 14.OCT.2018 21:42:13

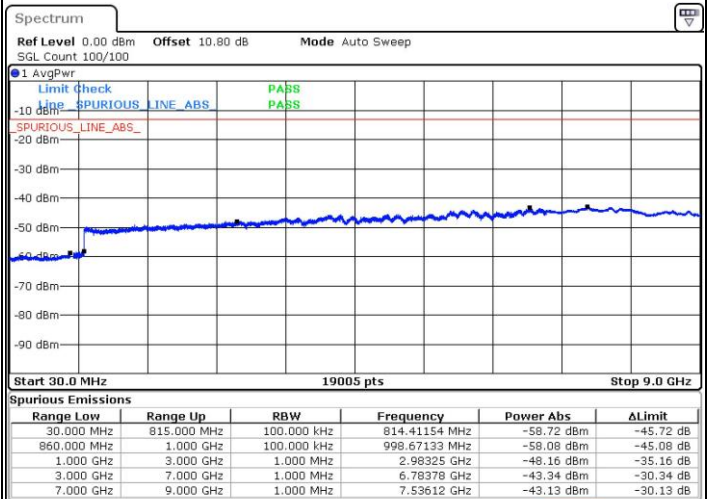
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 14.OCT.2018 21:50:14

Lowest Channel / 16QAM

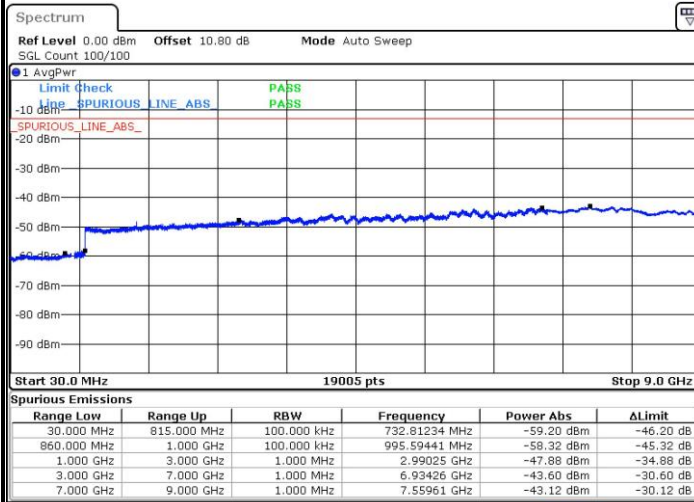


Date: 14.OCT.2018 21:50:50



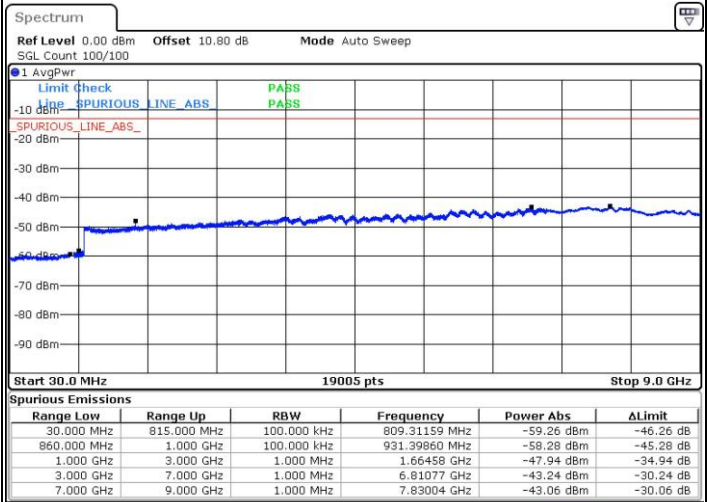
LTE Band 5 / 10MHz

Middle Channel / QPSK



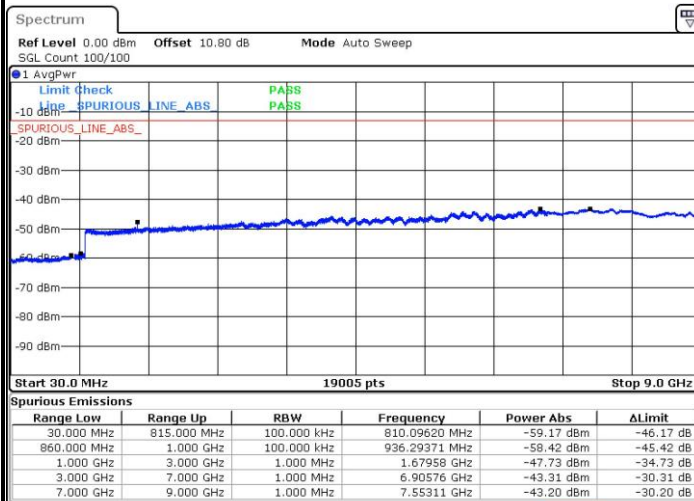
Date: 14.OCT.2018 21:52:10

Middle Channel / 16QAM



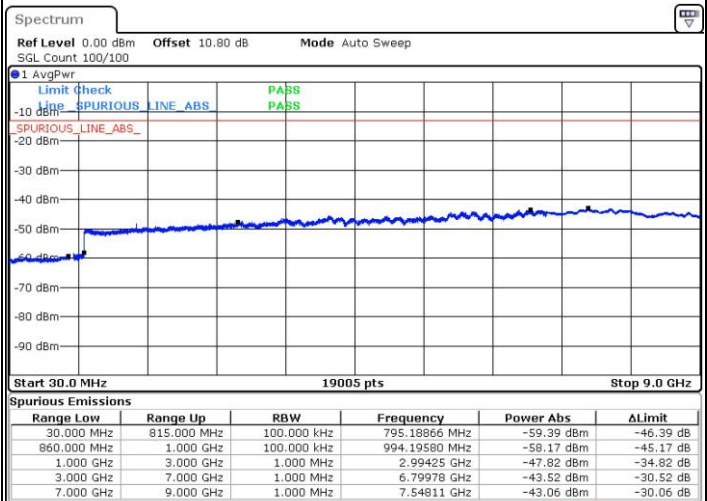
Date: 14.OCT.2018 21:52:46

Highest Channel / QPSK



Date: 14.OCT.2018 22:00:47

Highest Channel / 16QAM

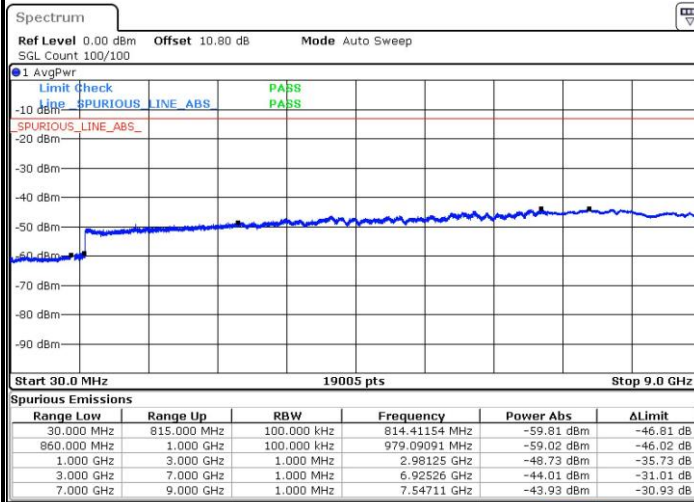


Date: 14.OCT.2018 22:01:22



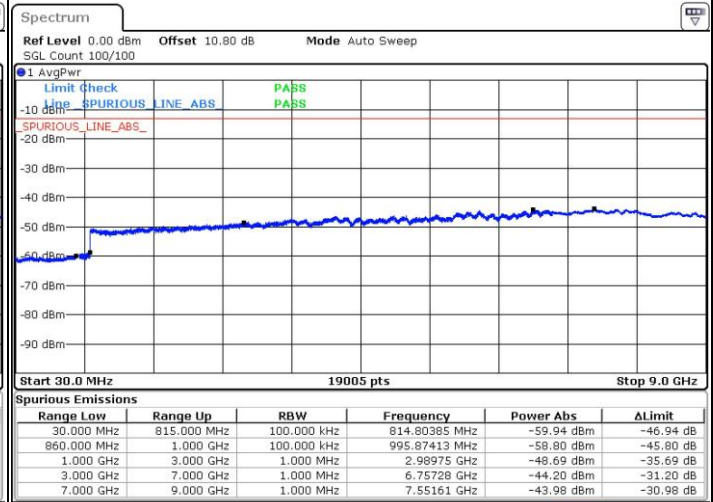
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



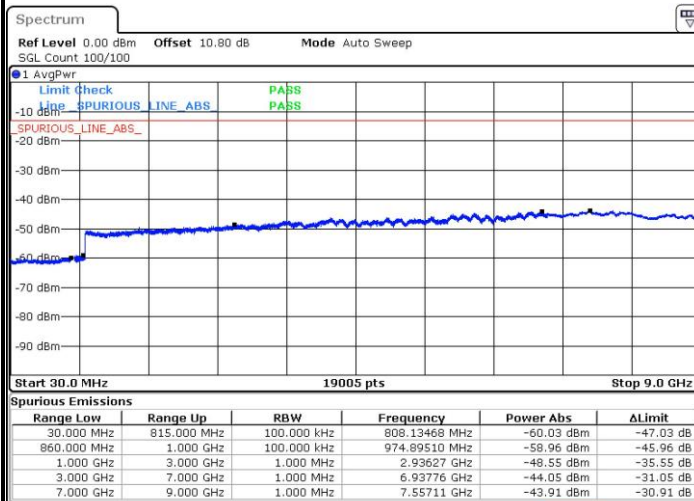
Date: 18.OCT.2018 20:19:32

Middle Channel / 64QAM



Date: 18.OCT.2018 20:20:35

Highest Channel / 64QAM

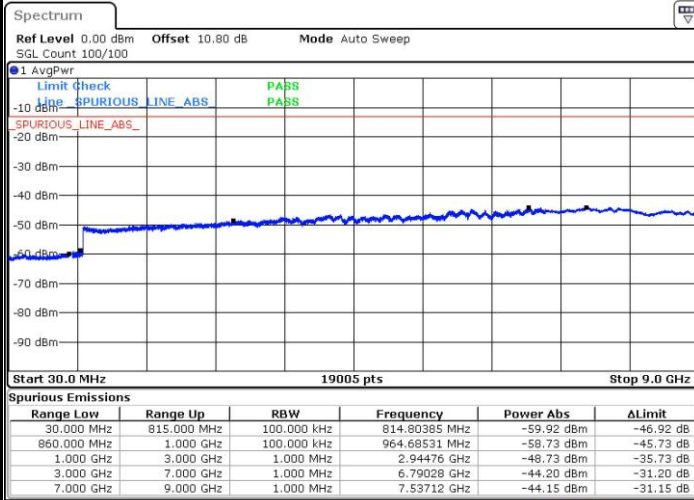


Date: 18.OCT.2018 20:24:59



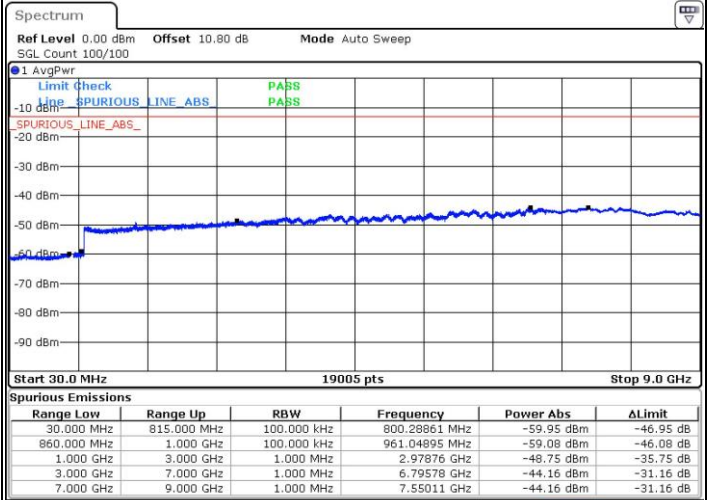
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



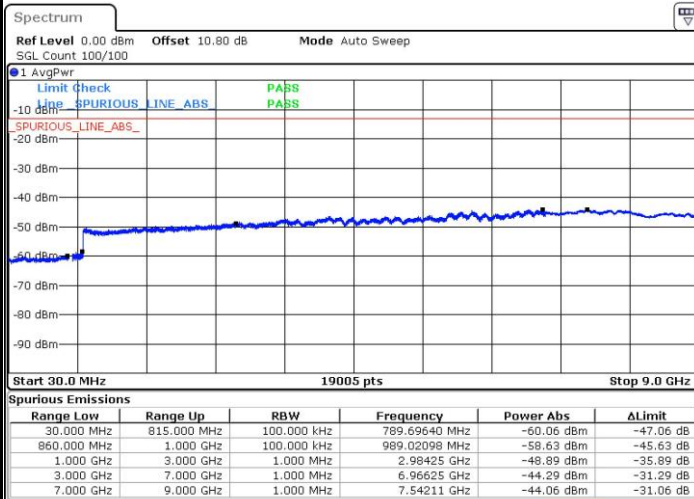
Date: 18.OCT.2018 19:43:53

Middle Channel / 64QAM



Date: 18.OCT.2018 19:44:56

Highest Channel / 64QAM

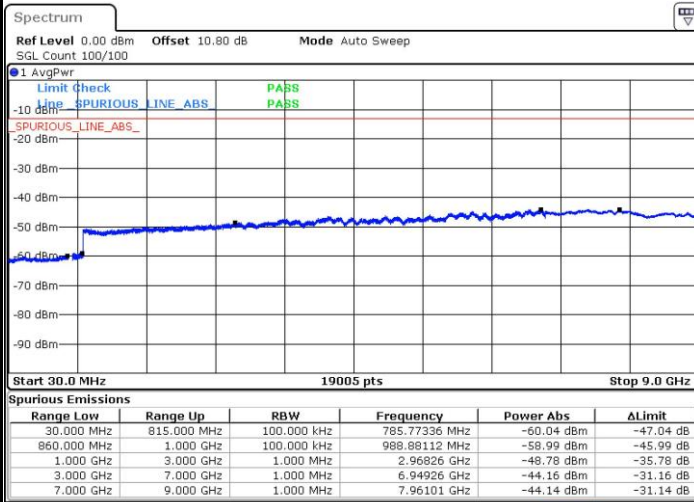


Date: 18.OCT.2018 19:49:19



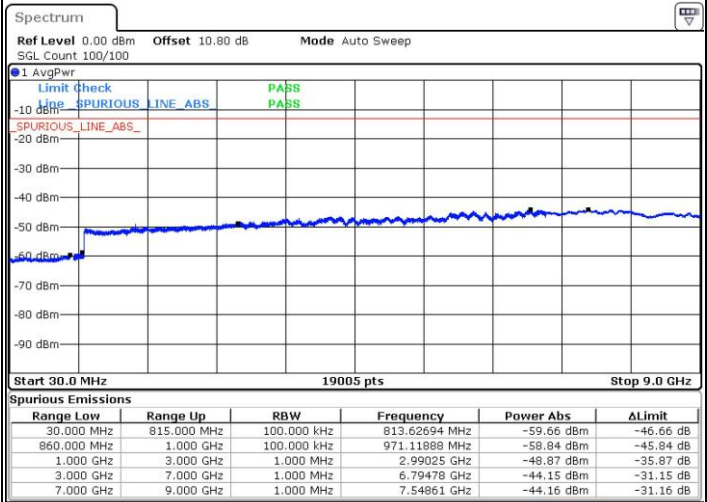
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



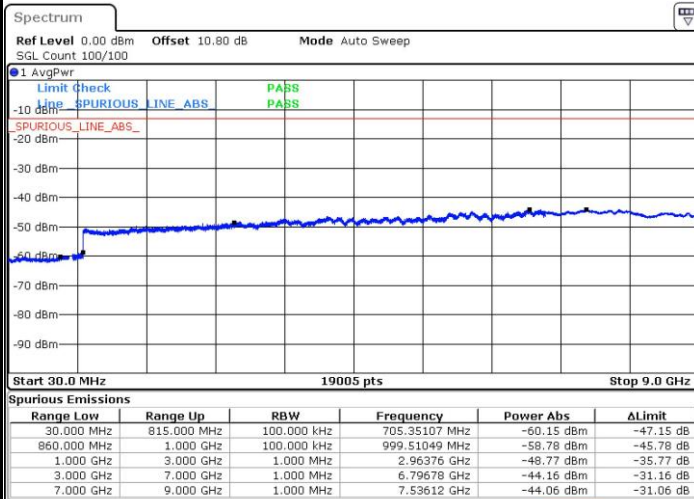
Date: 18.OCT.2018 19:53:43

Middle Channel / 64QAM



Date: 18.OCT.2018 19:54:46

Highest Channel / 64QAM

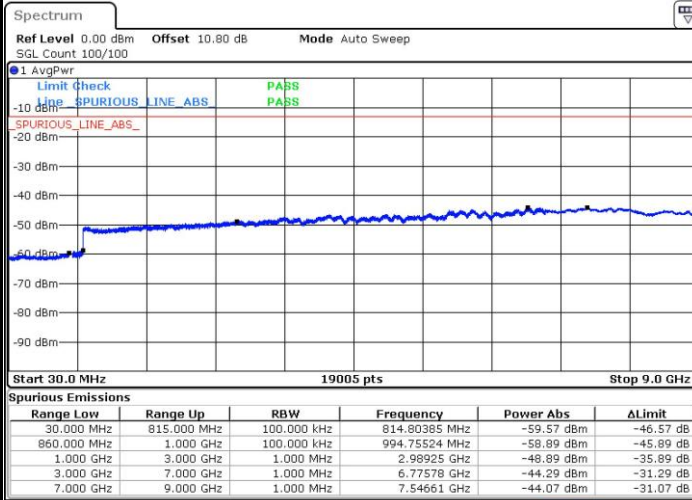


Date: 18.OCT.2018 19:59:10



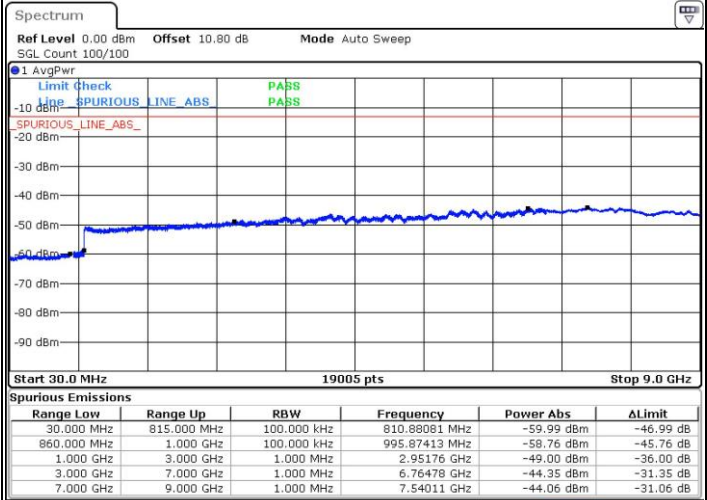
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



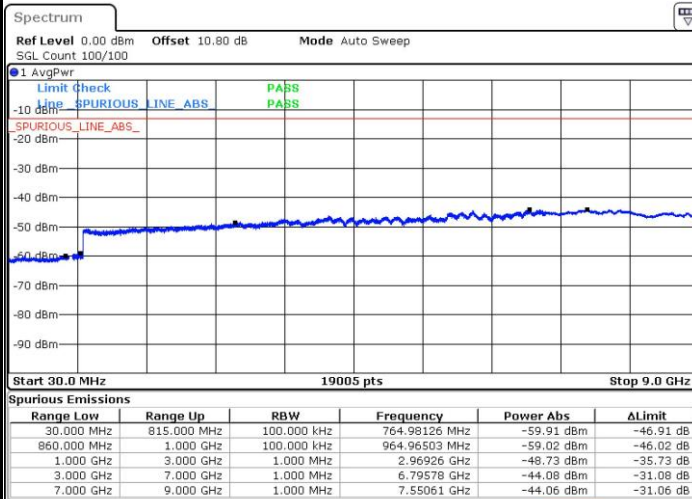
Date: 18.OCT.2018 20:03:33

Middle Channel / 64QAM



Date: 18.OCT.2018 20:04:36

Highest Channel / 64QAM



Date: 18.OCT.2018 20:09:00

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0068	PASS
40	Normal Voltage	0.0054	
30	Normal Voltage	0.0093	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0042	
-10	Normal Voltage	0.0057	
-20	Normal Voltage	0.0080	
-30	Normal Voltage	0.0122	
20	Maximum Voltage	0.0075	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0073	

Note:

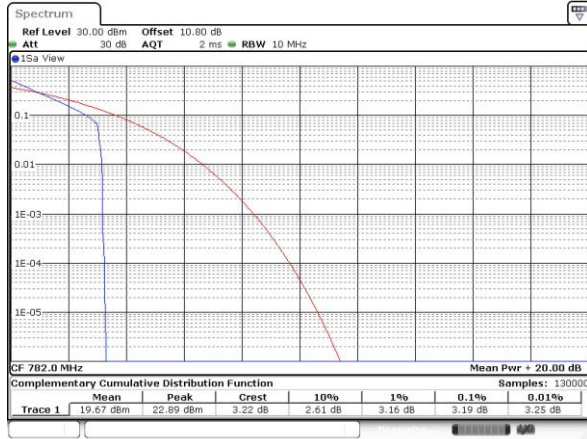
1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



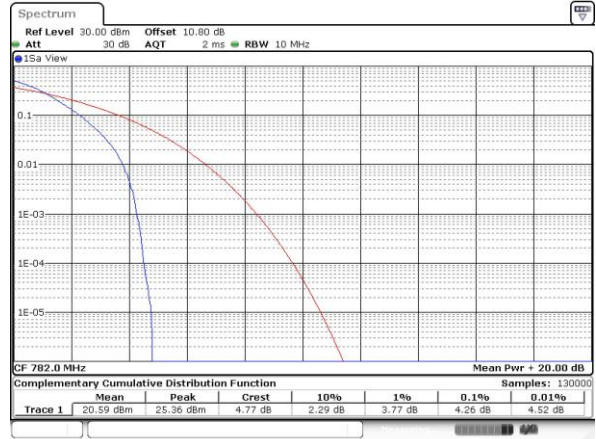
LTE Band 13

Peak-to-Average Ratio

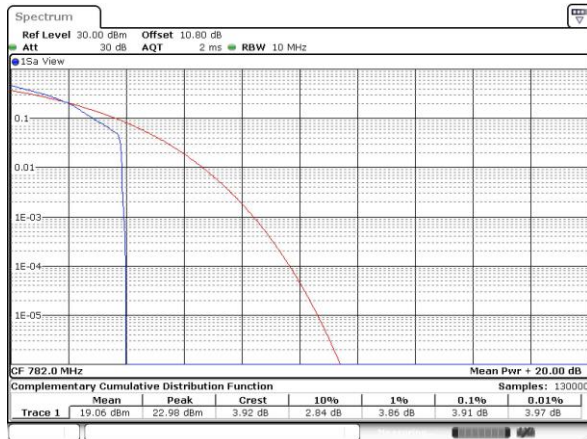
Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.19	4.26	3.91	5.3	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.96	5.86	-	-	
Highest CH	-	-	-	-	

LTE Band 13 / 10MHz / QPSK
Middle Channel / 1RB


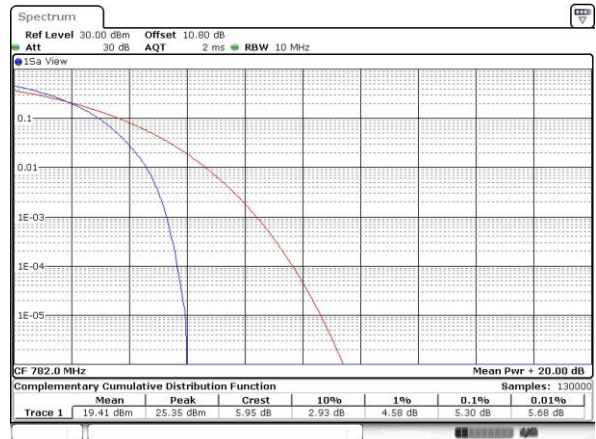
Date: 16.OCT.2018 09:51:17

Middle Channel / Full RB


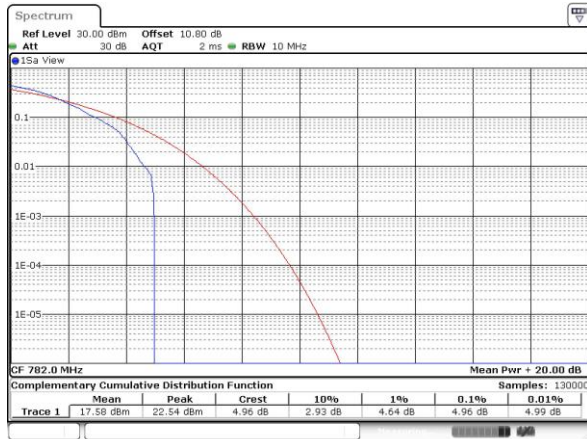
Date: 16.OCT.2018 09:51:27

LTE Band 13 / 10MHz / 16QAM
Middle Channel / 1RB


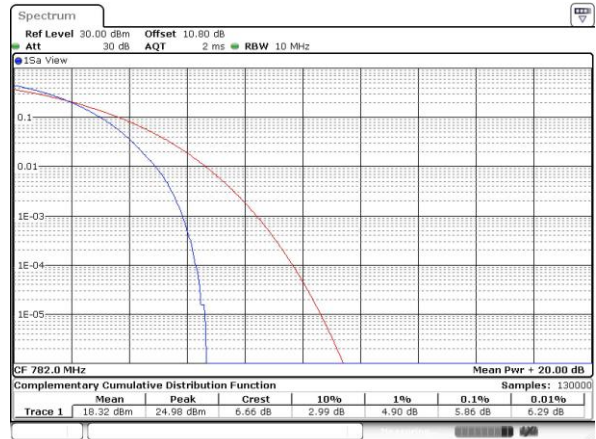
Date: 16.OCT.2018 09:50:56

Middle Channel / Full RB


Date: 16.OCT.2018 09:51:07

LTE Band 13 / 10MHz / 64QAM
Middle Channel / 1RB


Date: 18.OCT.2018 21:55:18

Middle Channel / Full RB


Date: 18.OCT.2018 21:55:32

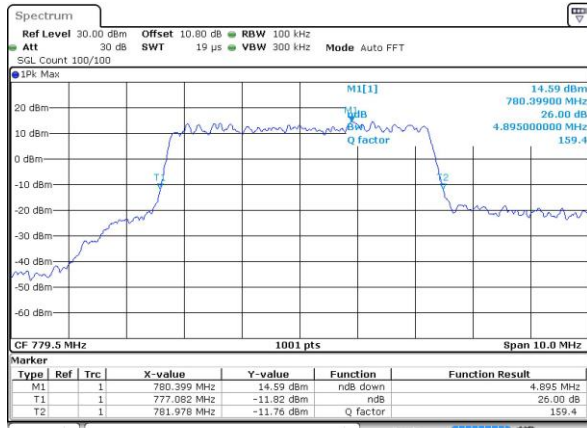
**26dB Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	4.90	4.86	-	-	-	-	-	-
Middle CH	-	-	-	-	4.89	4.93	9.79	9.81	-	-	-	-
Highest CH	-	-	-	-	4.99	4.93	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.85	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.95	-	9.81	-	-	-	-	-
Highest CH	-	-	-	-	4.98	-	-	-	-	-	-	-



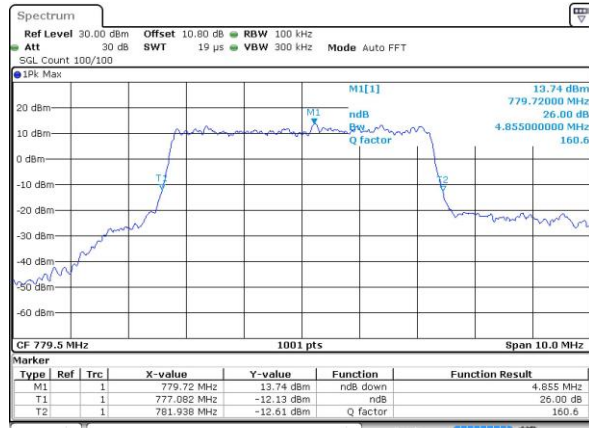
LTE Band 13

Lowest Channel / 5MHz / QPSK



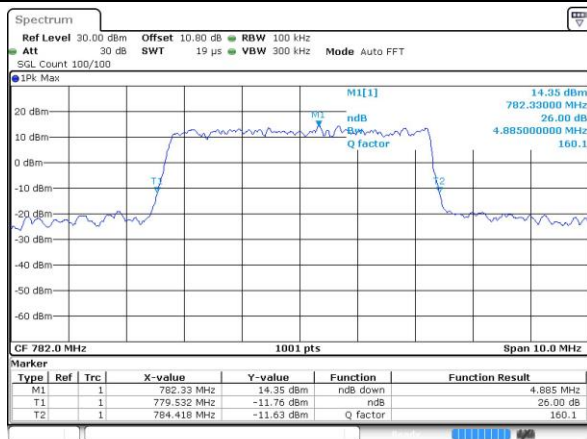
Date: 16.OCT.2018 09:15:11

Lowest Channel / 5MHz / 16QAM



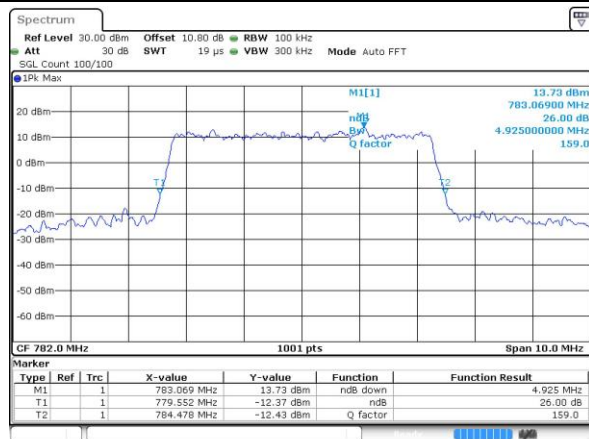
Date: 16.OCT.2018 09:15:00

Middle Channel / 5MHz / QPSK



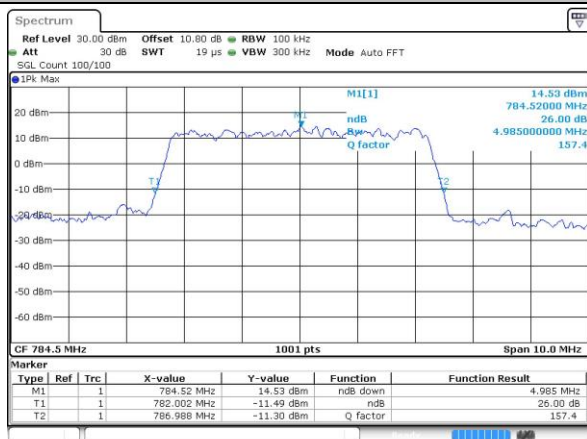
Date: 16.OCT.2018 09:25:24

Middle Channel / 5MHz / 16QAM



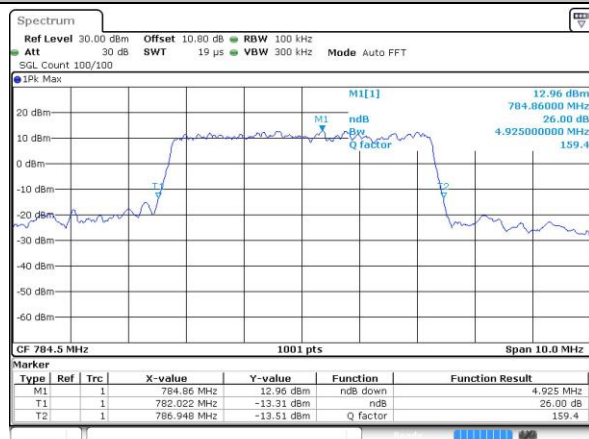
Date: 16.OCT.2018 09:25:36

Highest Channel / 5MHz / QPSK



Date: 16.OCT.2018 09:26:44

Highest Channel / 5MHz / 16QAM

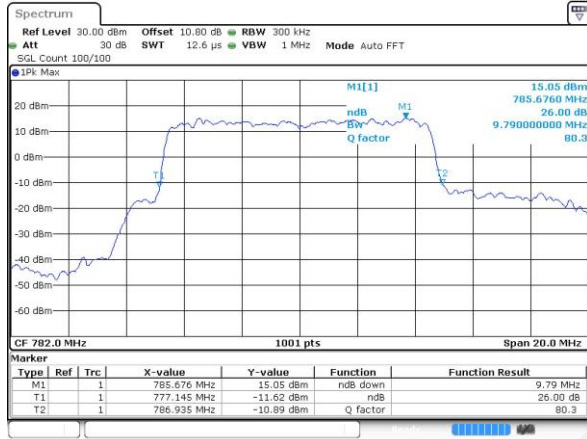


Date: 16.OCT.2018 09:26:32



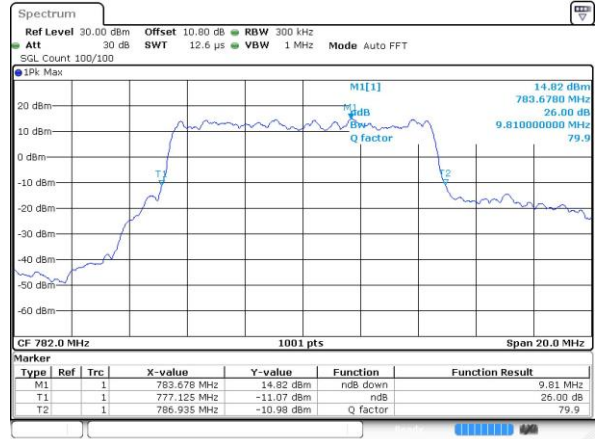
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 16.OCT.2018 09:35:50

Middle Channel / 10MHz / 16QAM



Date: 16.OCT.2018 09:35:39