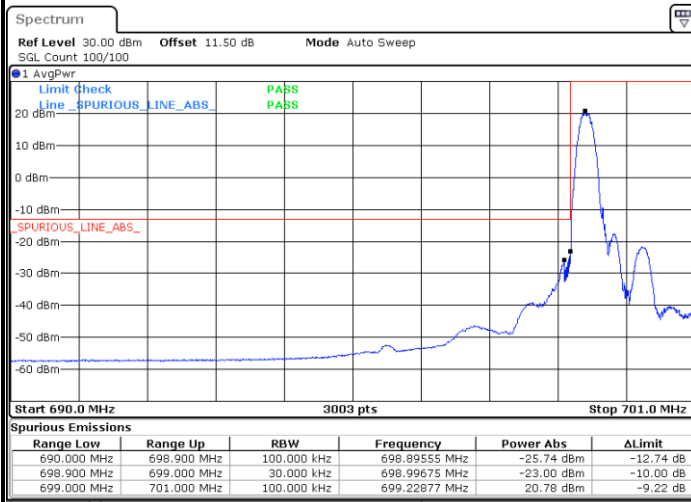


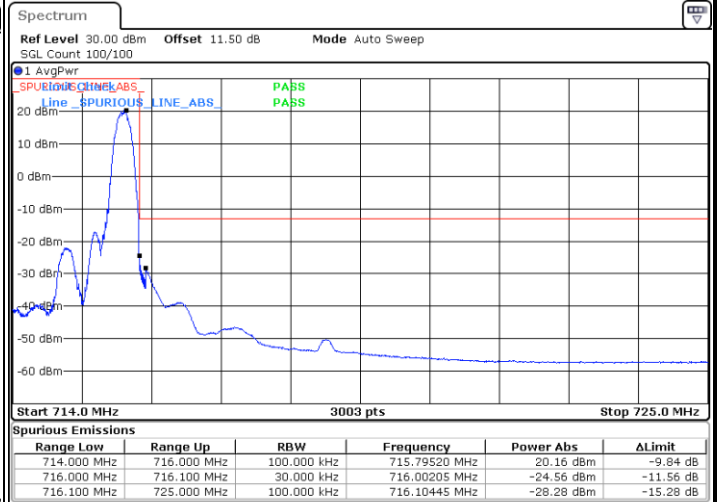


LTE Band 12 / 1.4MHz / 16QAM

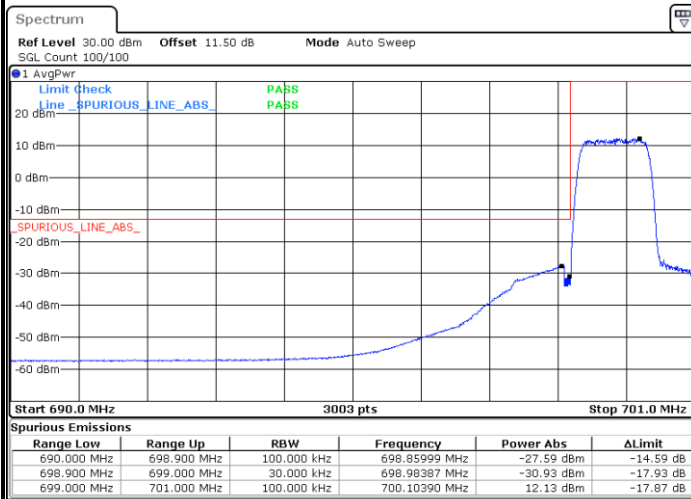
Lowest Band Edge / 1 RB



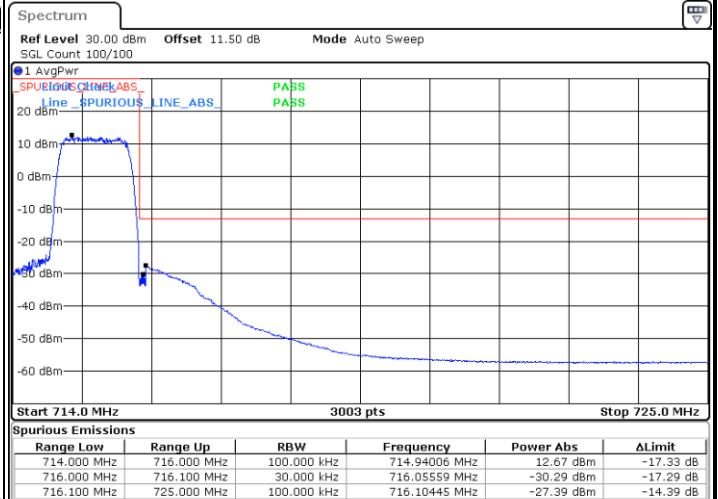
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



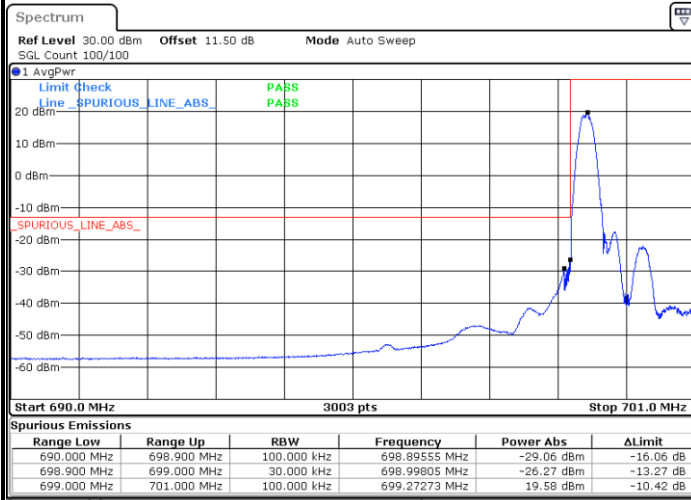
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 64QAM

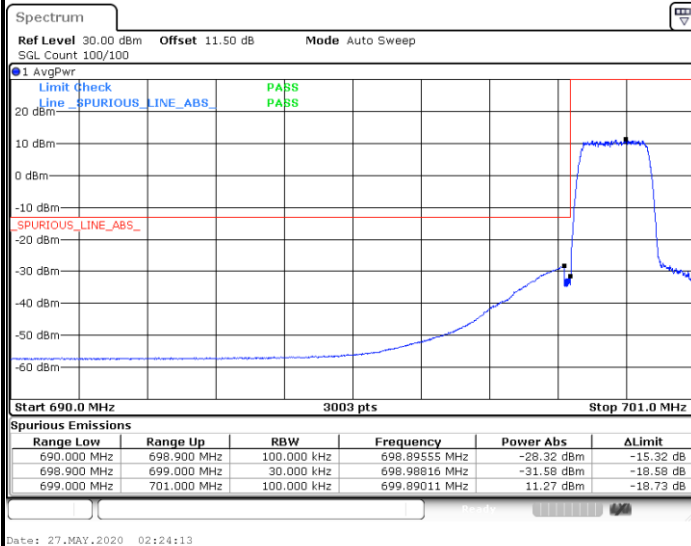
Lowest Band Edge / 1 RB



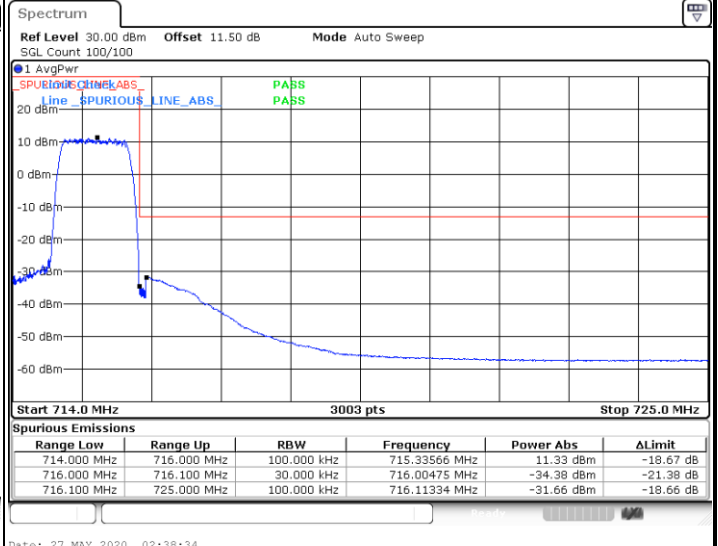
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



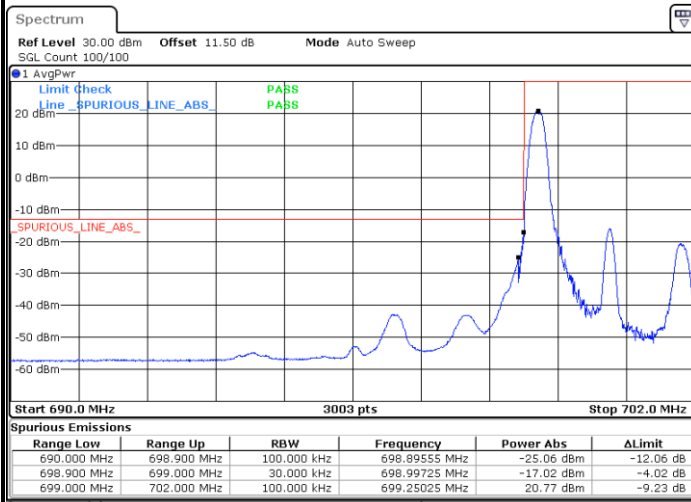
Highest Band Edge / Full RB



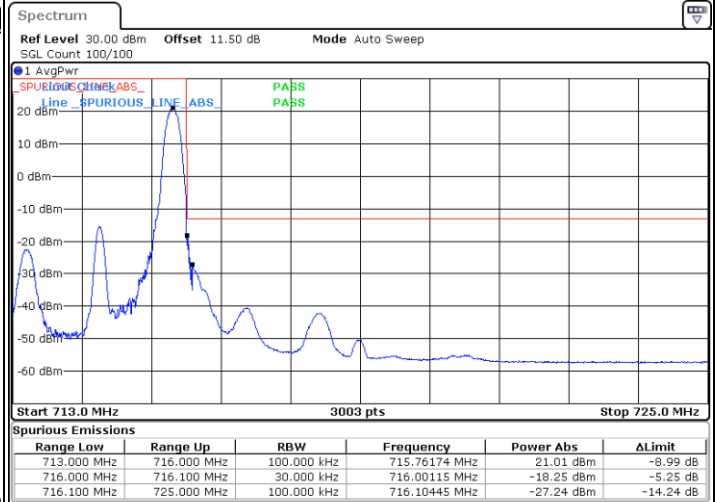


LTE Band 12 / 3MHz / QPSK

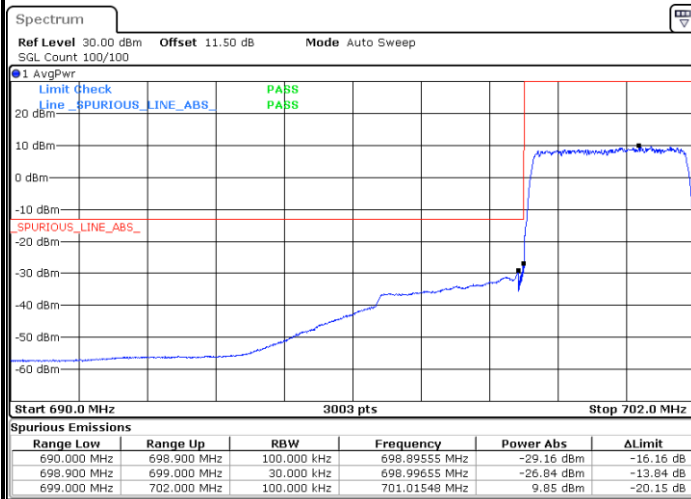
Lowest Band Edge / 1RB



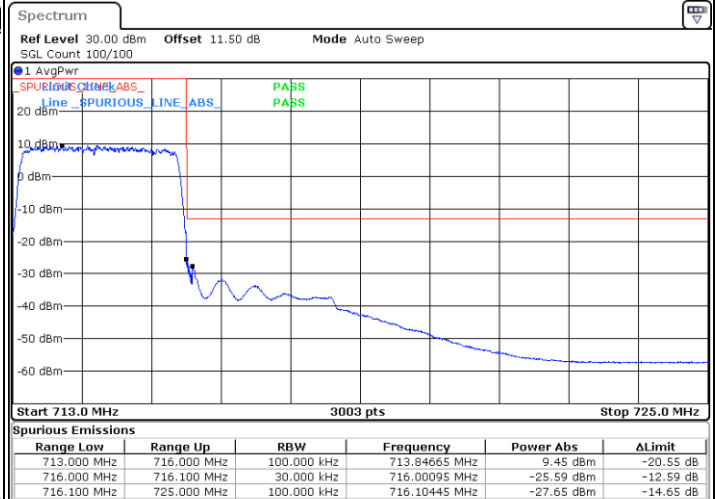
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



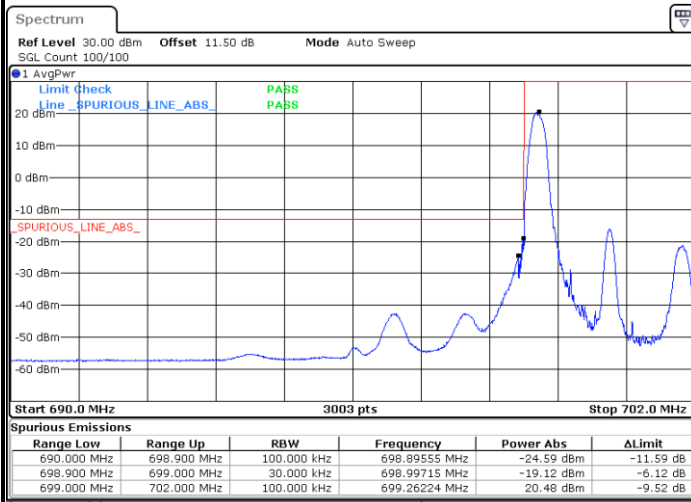
Highest Band Edge / Full RB



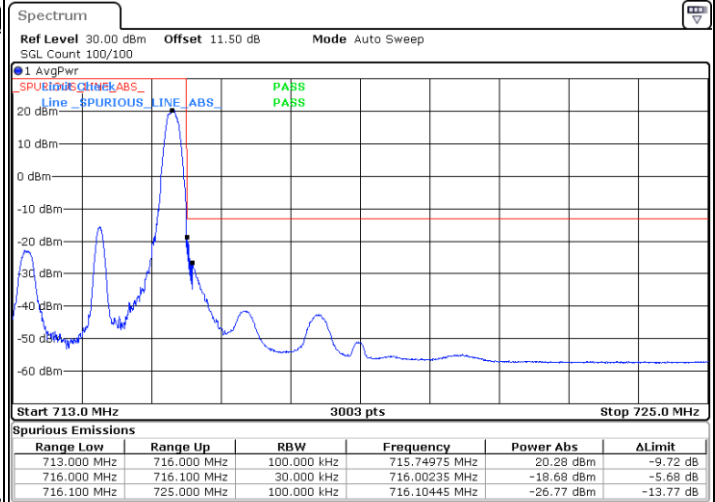


LTE Band 12 / 3MHz / 16QAM

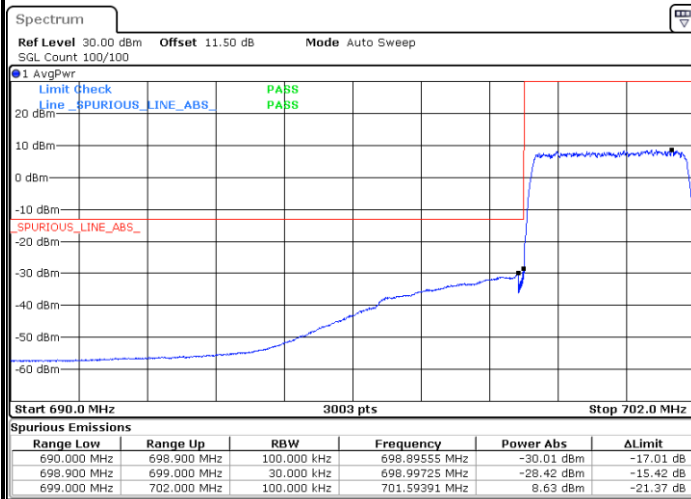
Lowest Band Edge / 1 RB



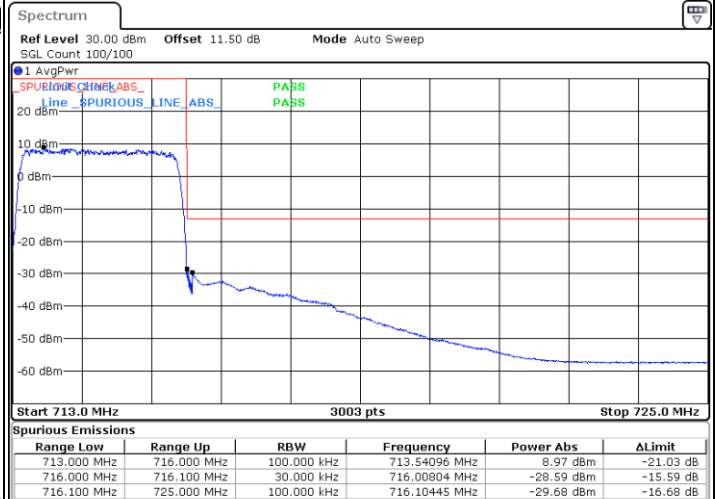
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



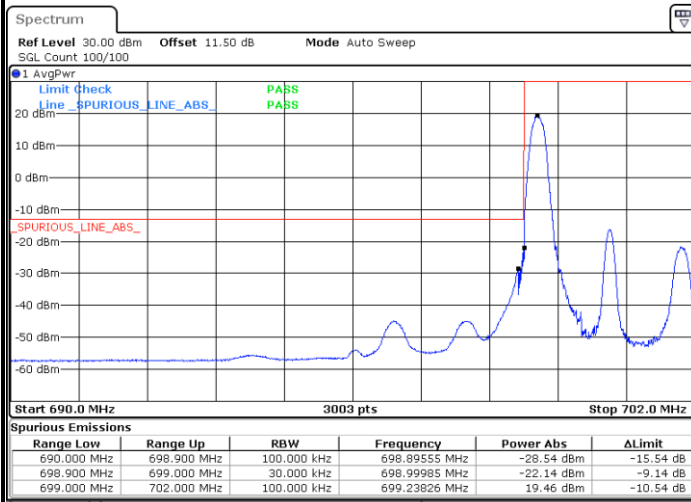
Highest Band Edge / Full RB



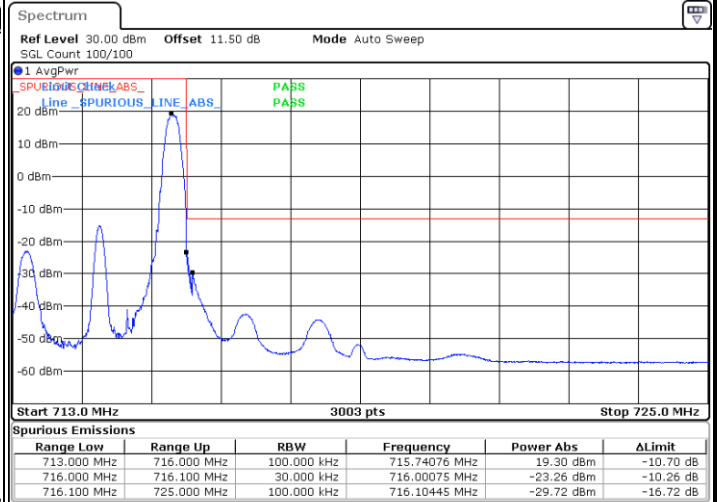


LTE Band 12 / 3MHz / 64QAM

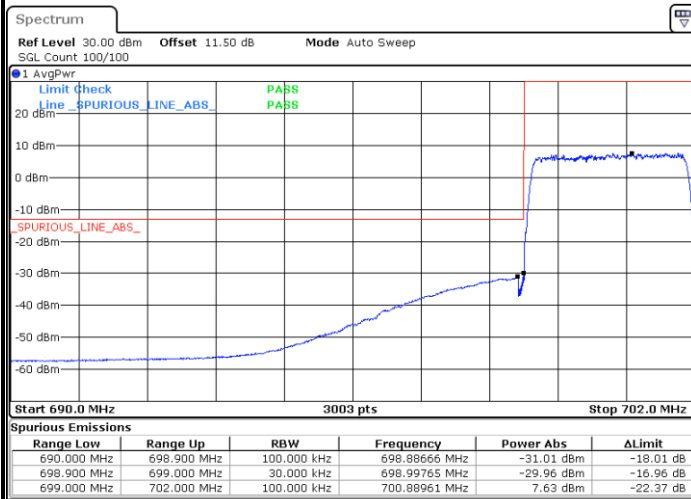
Lowest Band Edge / 1 RB



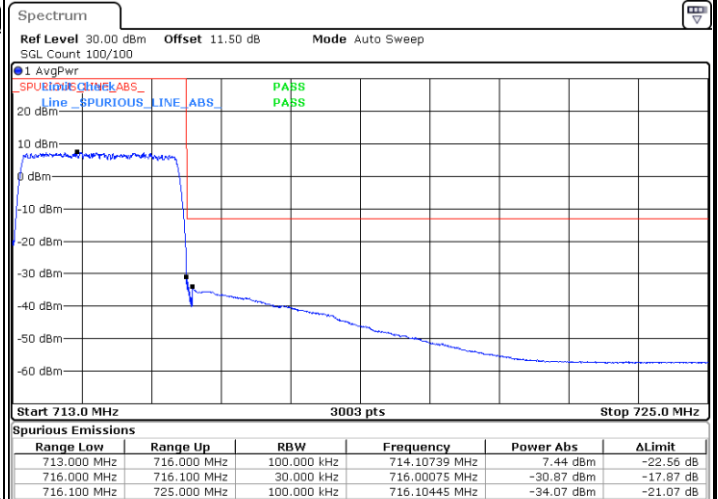
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



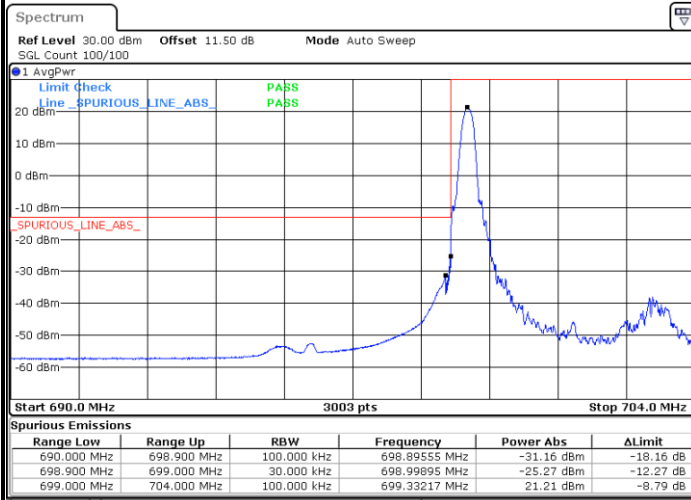
Highest Band Edge / Full RB



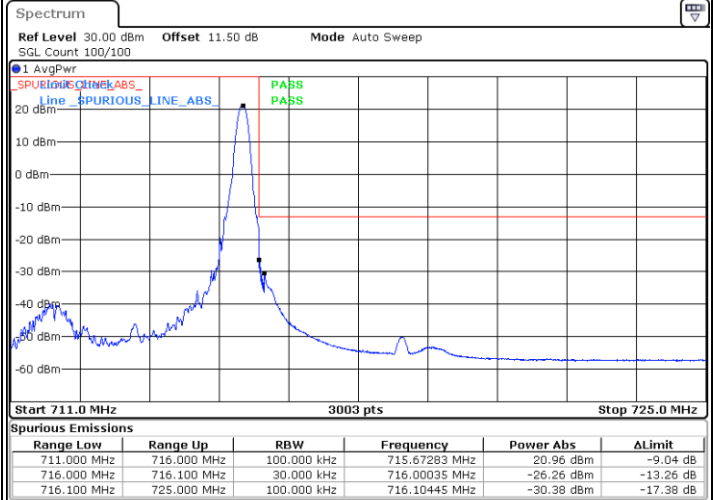


LTE Band 12 / 5MHz / QPSK

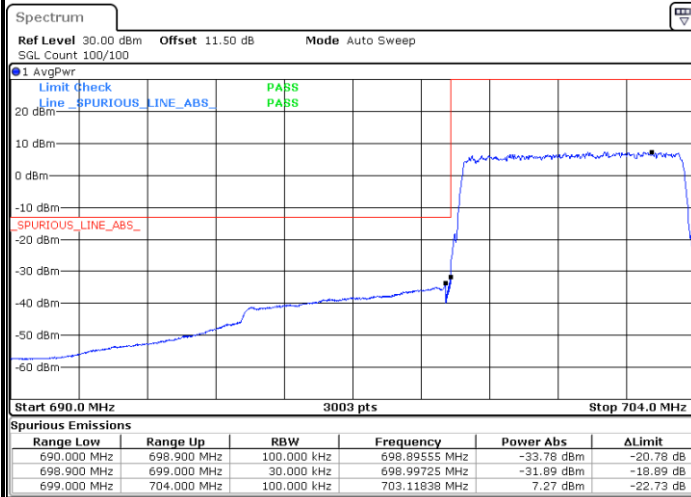
Lowest Band Edge / 1 RB



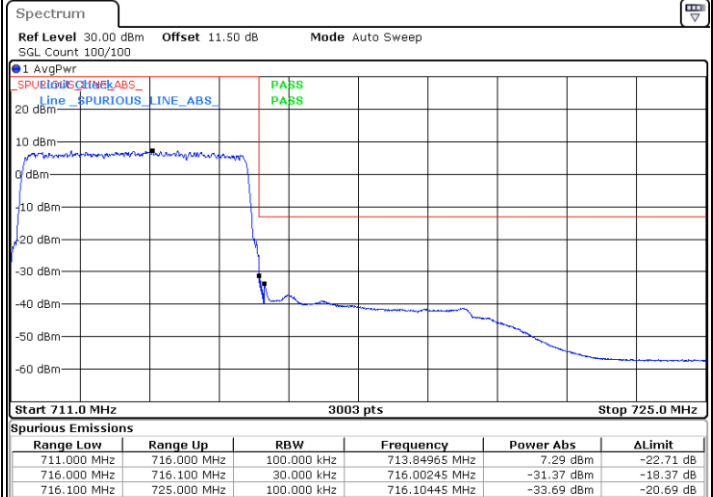
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



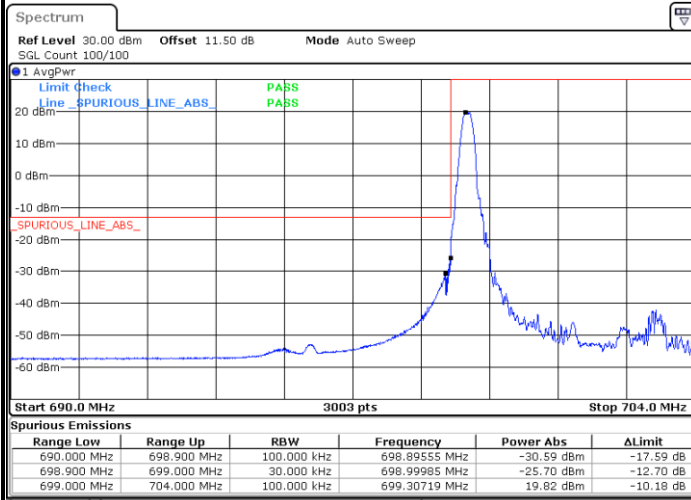
Highest Band Edge / Full RB



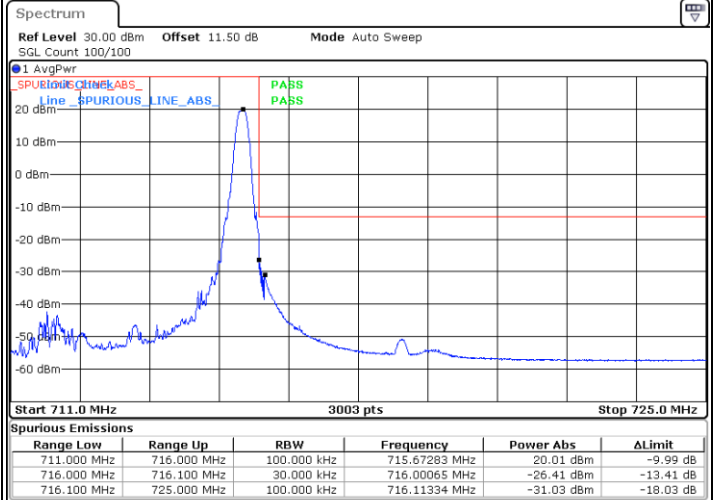


LTE Band 12 / 5MHz / 16QAM

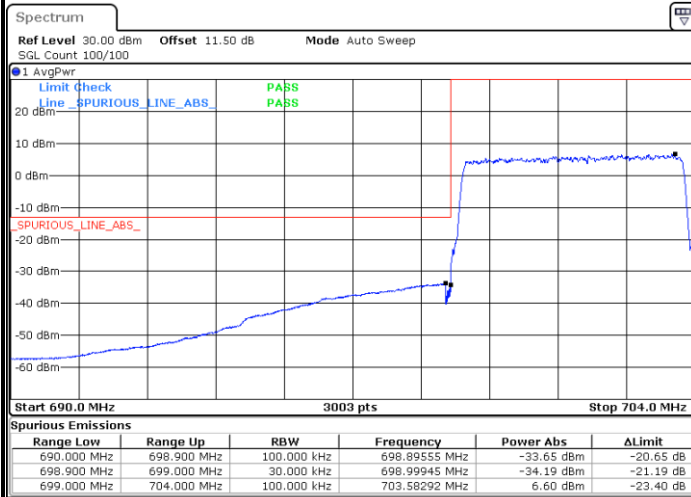
Lowest Band Edge / 1RB



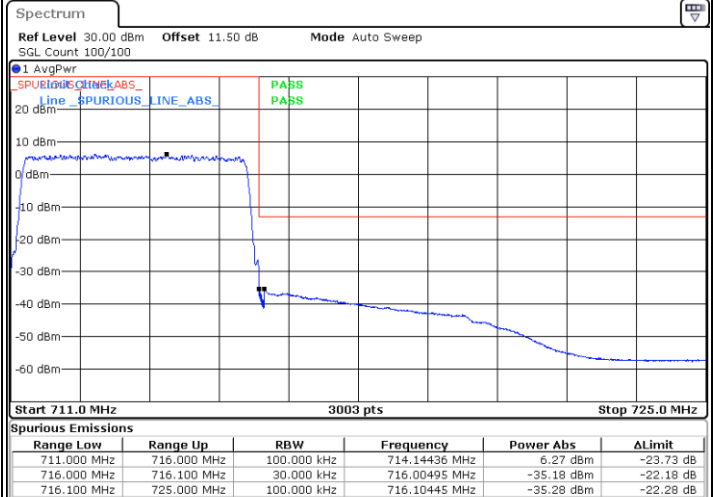
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



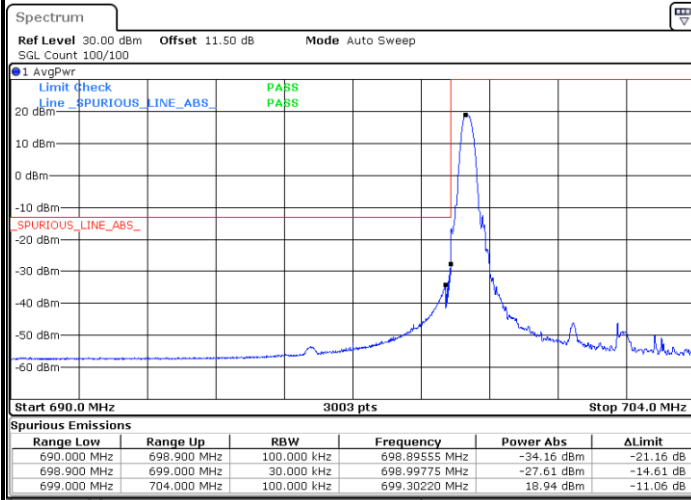
Highest Band Edge / Full RB



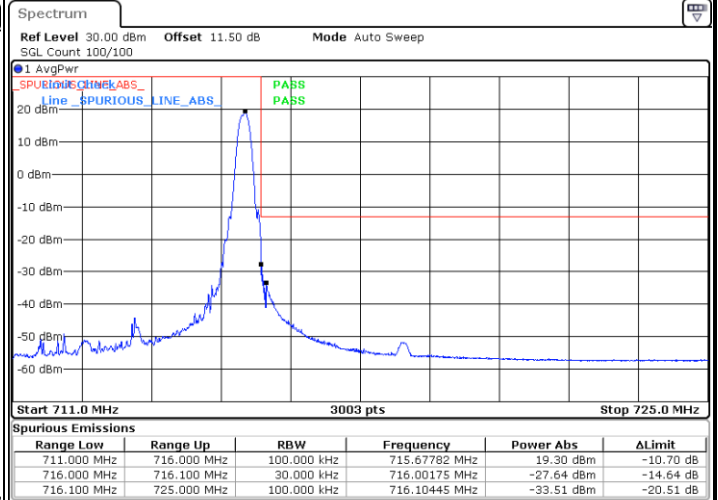


LTE Band 12 / 5MHz / 64QAM

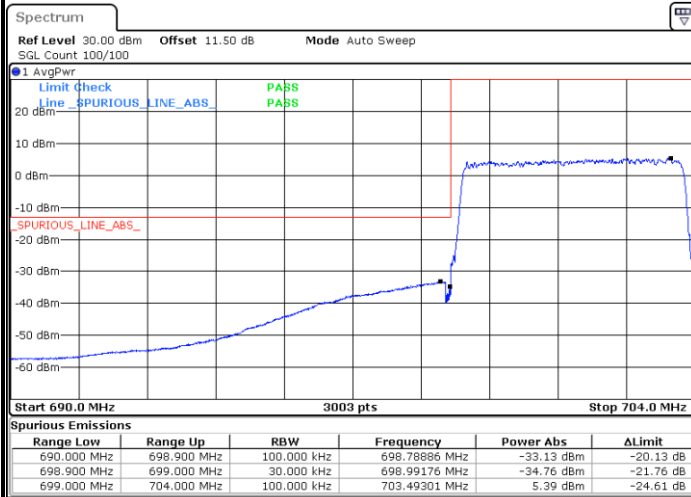
Lowest Band Edge / 1RB



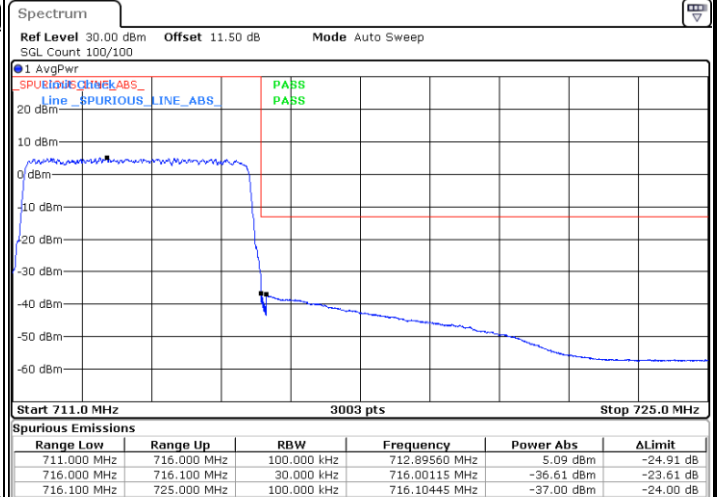
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



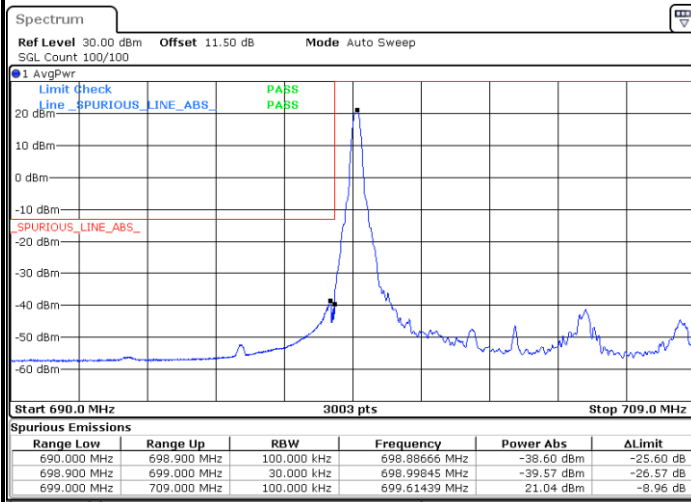
Highest Band Edge / Full RB



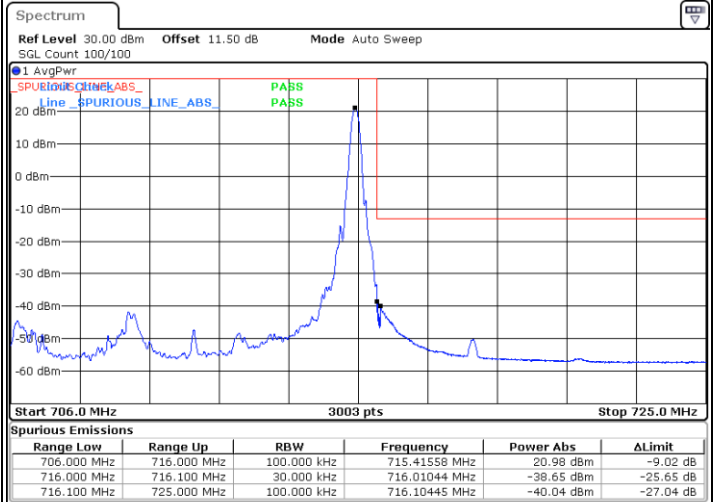


LTE Band 12 / 10MHz / QPSK

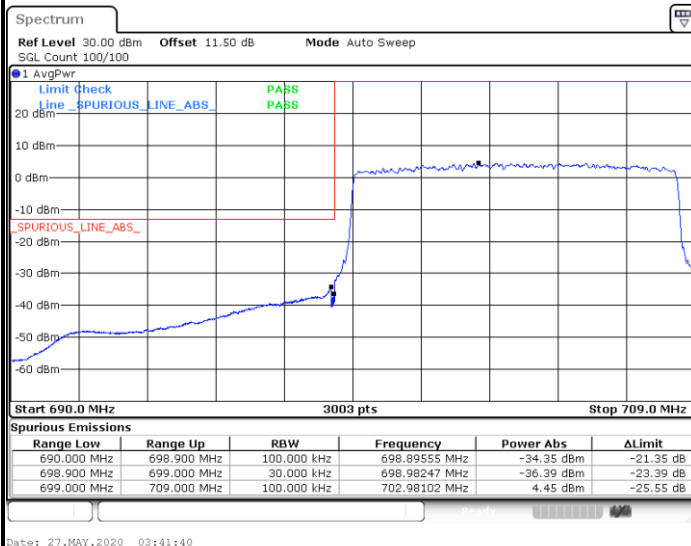
Lowest Band Edge / 1 RB



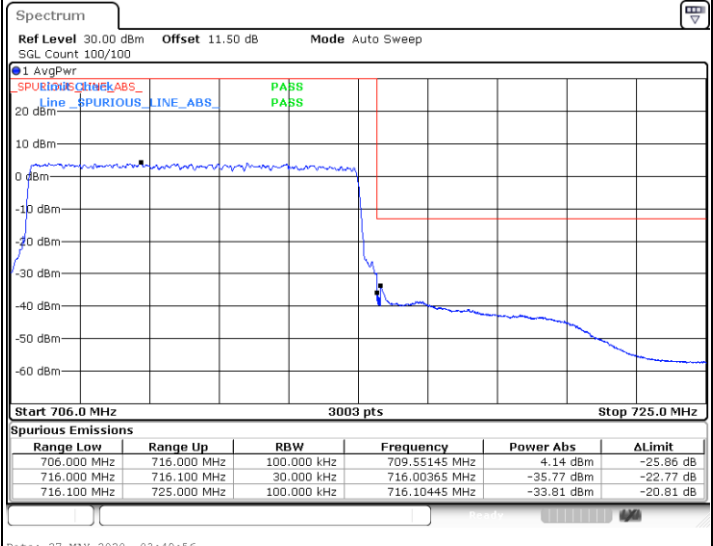
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



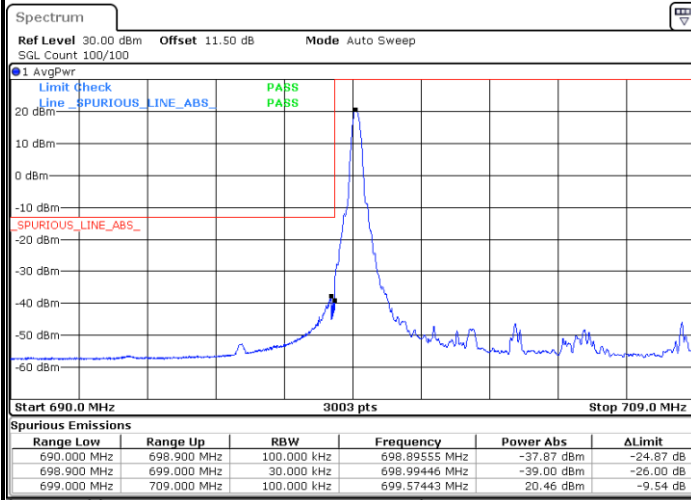
Highest Band Edge / Full RB



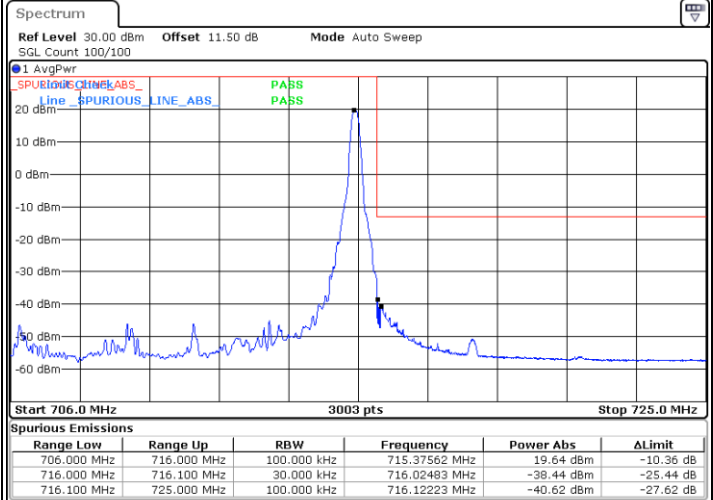


LTE Band 12 / 10MHz / 16QAM

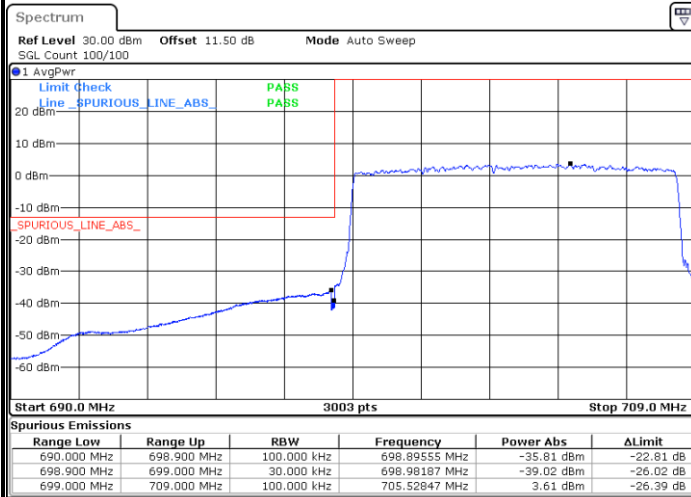
Lowest Band Edge / 1 RB



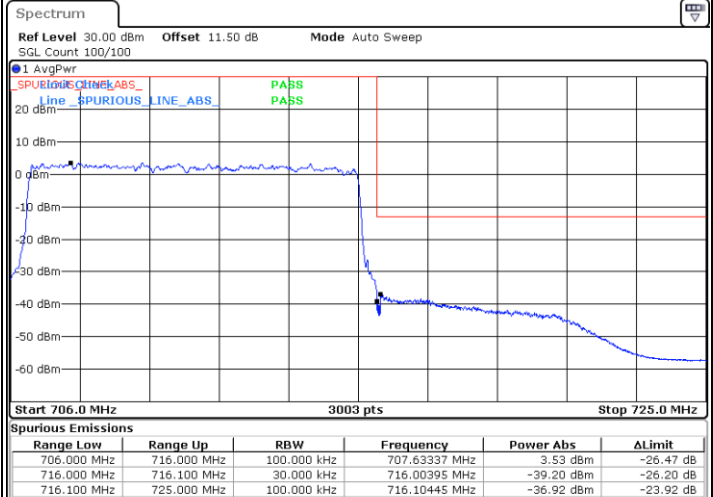
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



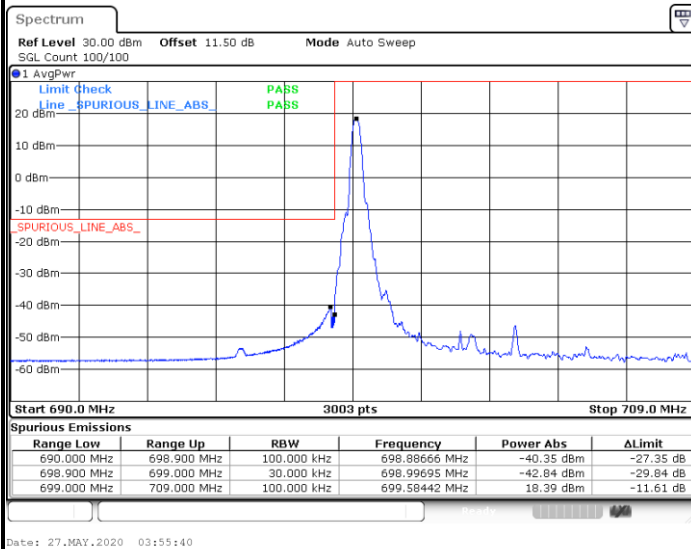
Highest Band Edge / Full RB



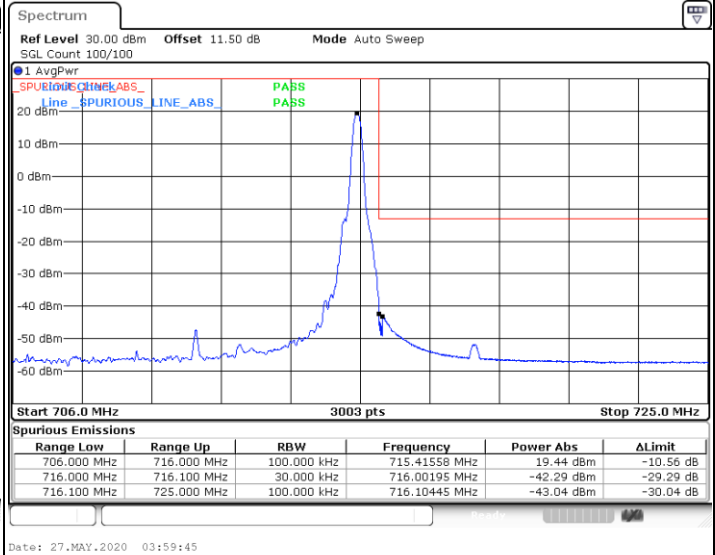


LTE Band 12 / 10MHz / 64QAM

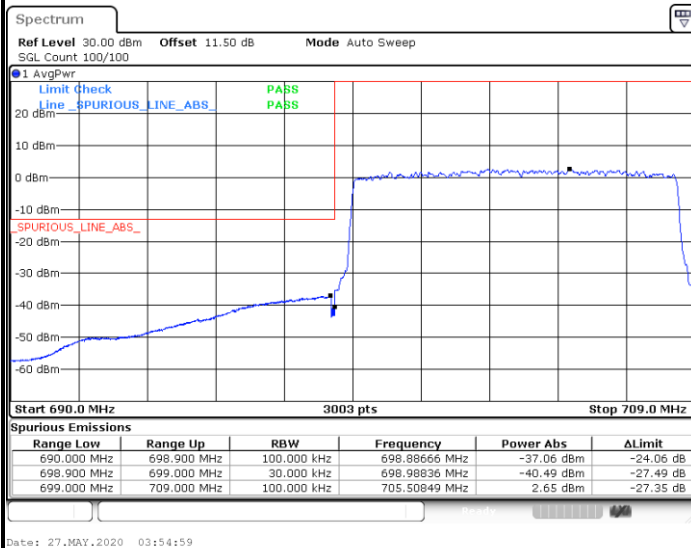
Lowest Band Edge / 1 RB



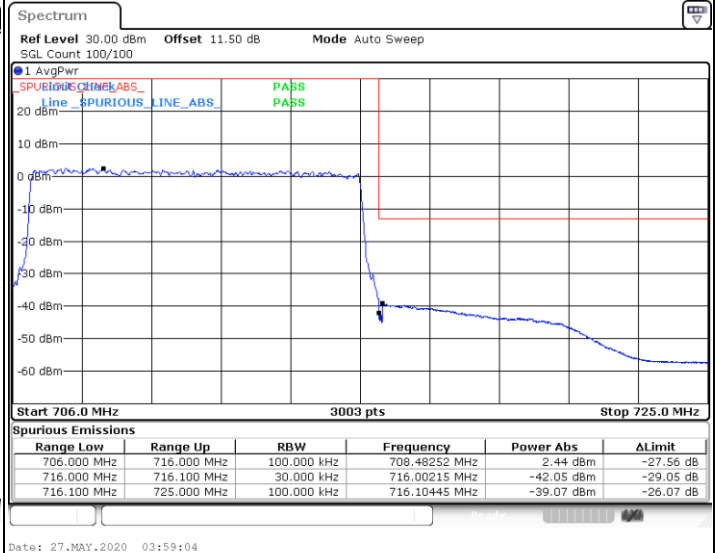
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

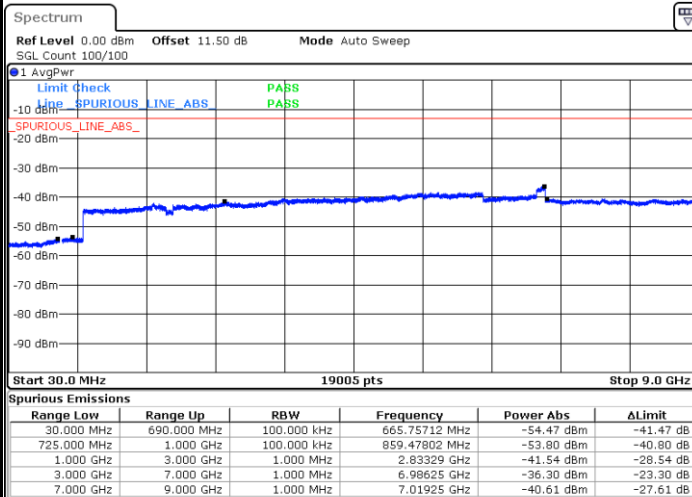




Conducted Spurious Emission

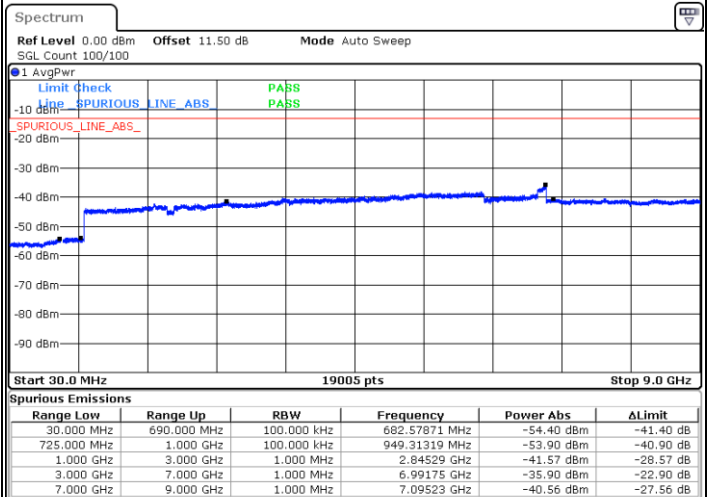
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



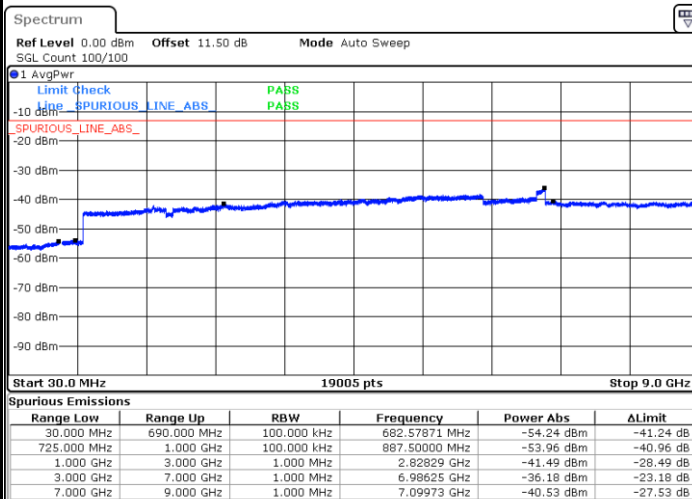
Date: 27.MAY.2020 02:12:17

Lowest Channel / 16QAM



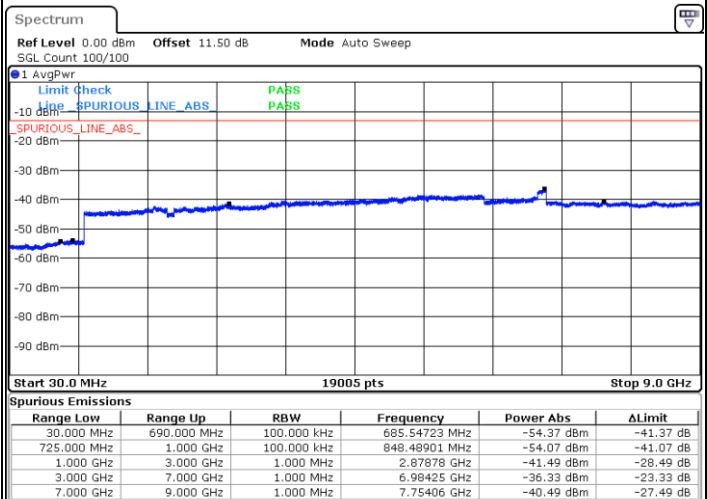
Date: 27.MAY.2020 02:13:12

Middle Channel / QPSK



Date: 27.MAY.2020 02:15:53

Middle Channel / 16QAM

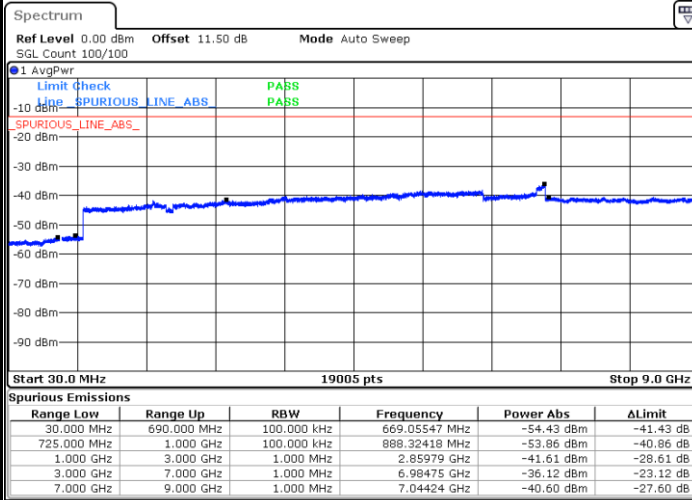


Date: 27.MAY.2020 02:14:59



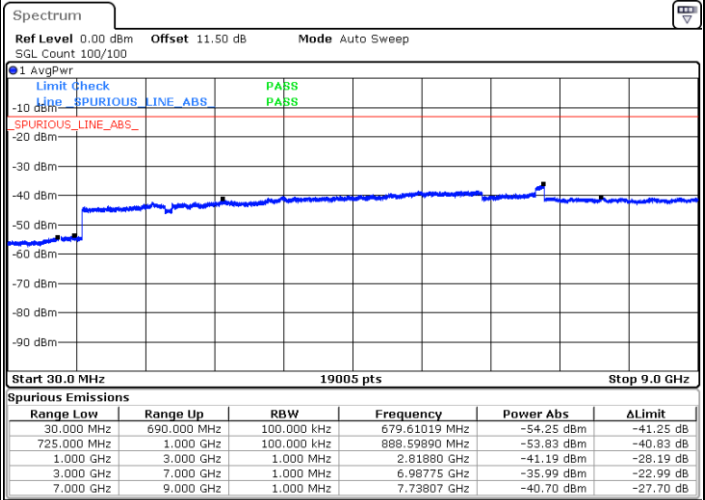
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 27.MAY.2020 02:21:49

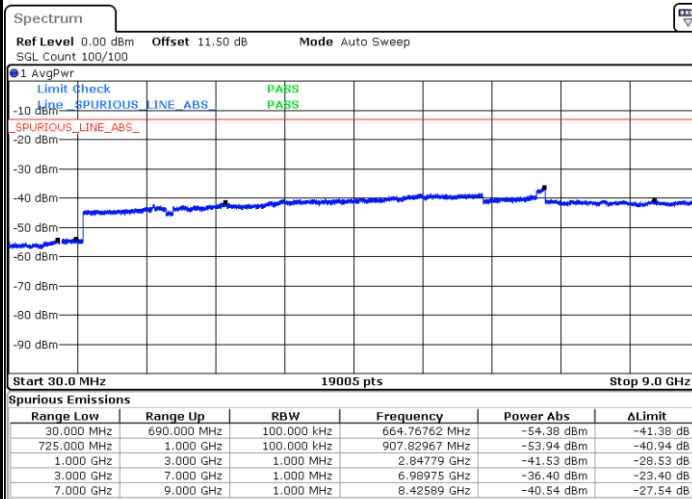
Highest Channel / 16QAM



Date: 27.MAY.2020 02:22:44

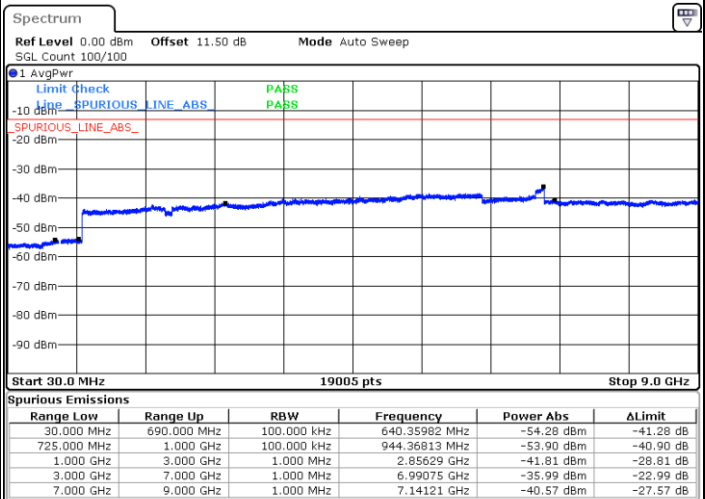
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 27.MAY.2020 02:46:25

Lowest Channel / 16QAM

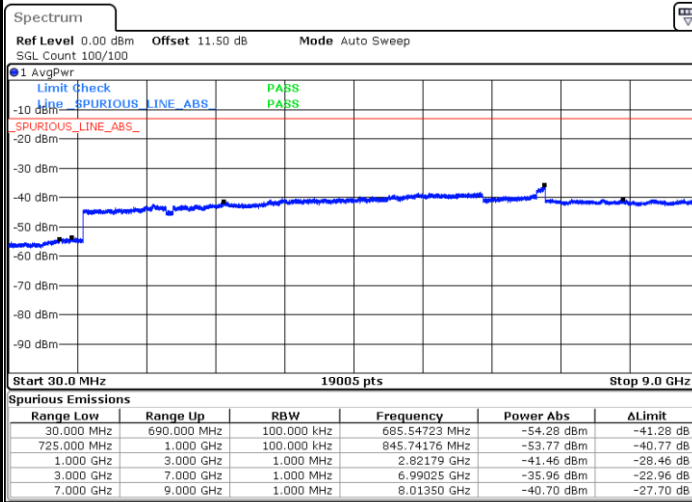


Date: 27.MAY.2020 02:47:20



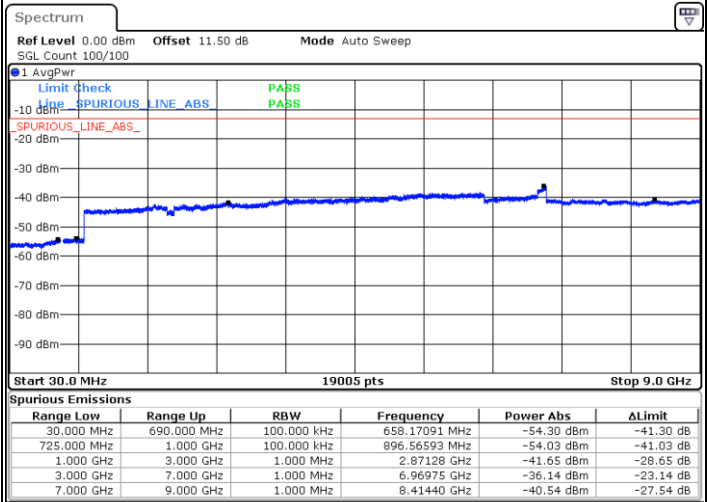
LTE Band 12 / 3MHz

Middle Channel / QPSK



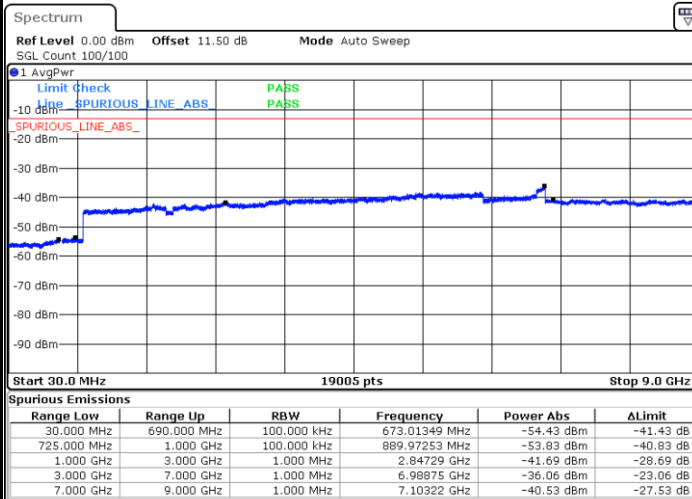
Date: 27.MAY.2020 02:50:03

Middle Channel / 16QAM



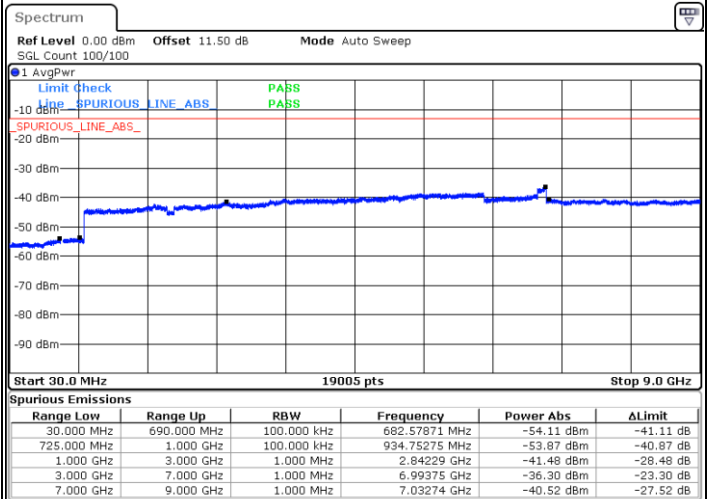
Date: 27.MAY.2020 02:49:08

Highest Channel / QPSK



Date: 27.MAY.2020 02:55:58

Highest Channel / 16QAM

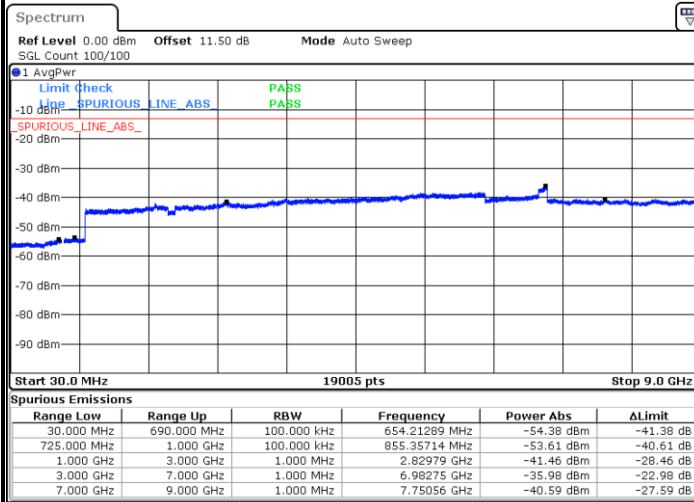


Date: 27.MAY.2020 02:56:53



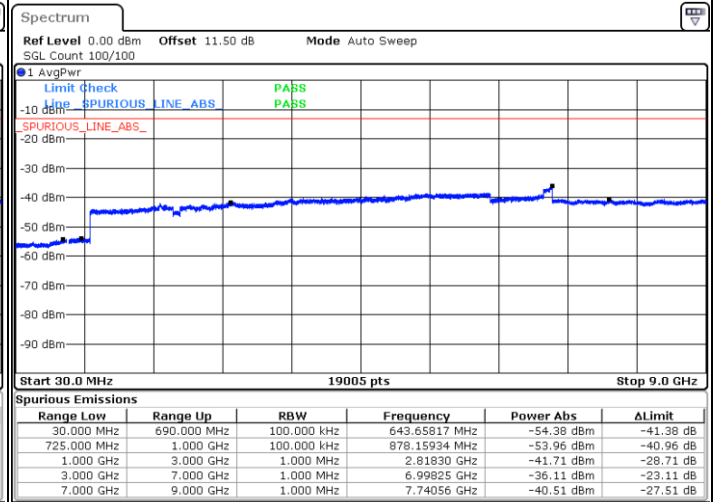
LTE Band 12 / 5MHz

Lowest Channel / QPSK



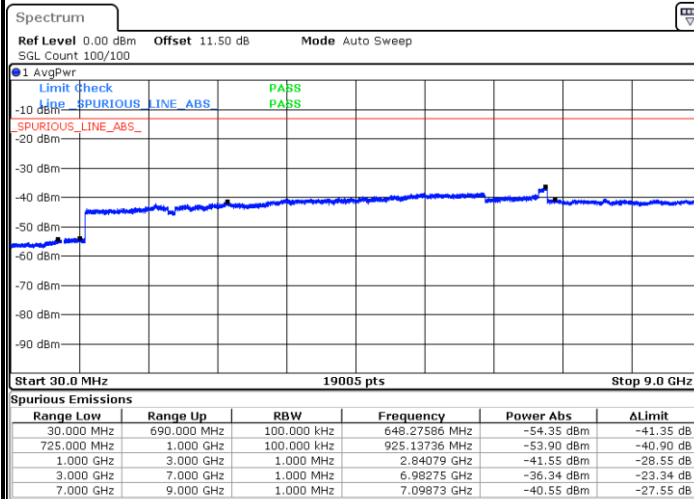
Date: 27.MAY.2020 03:24:51

Lowest Channel / 16QAM



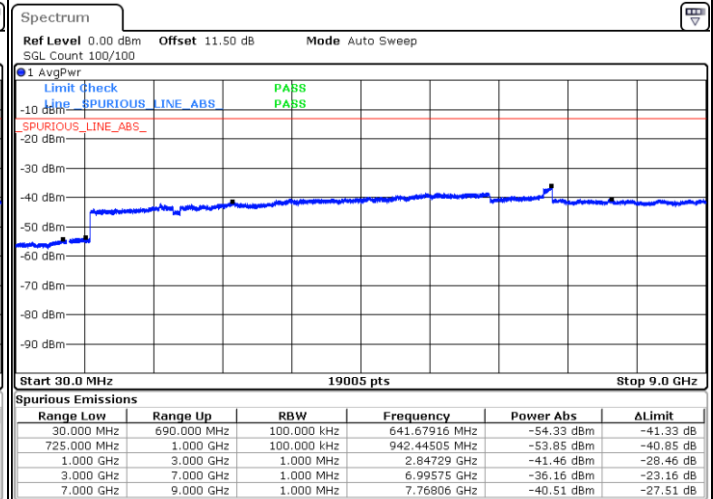
Date: 27.MAY.2020 03:25:47

Middle Channel / QPSK



Date: 27.MAY.2020 03:28:30

Middle Channel / 16QAM

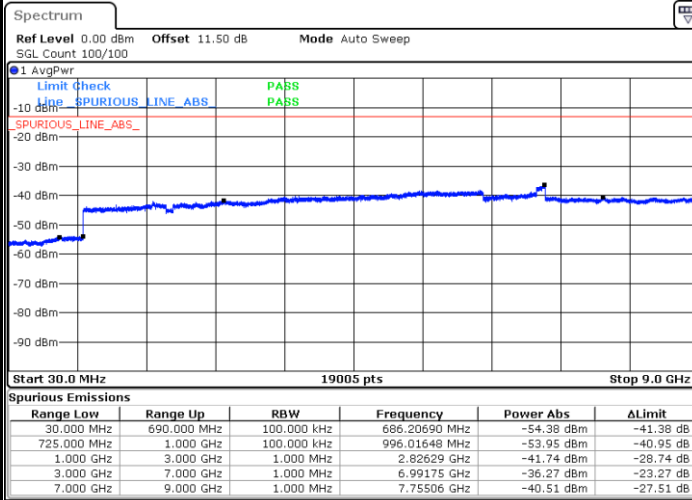


Date: 27.MAY.2020 03:27:35



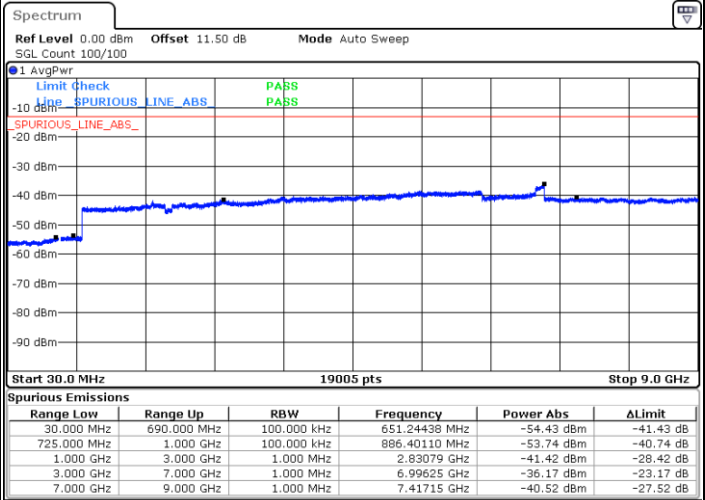
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 27.MAY.2020 03:40:03

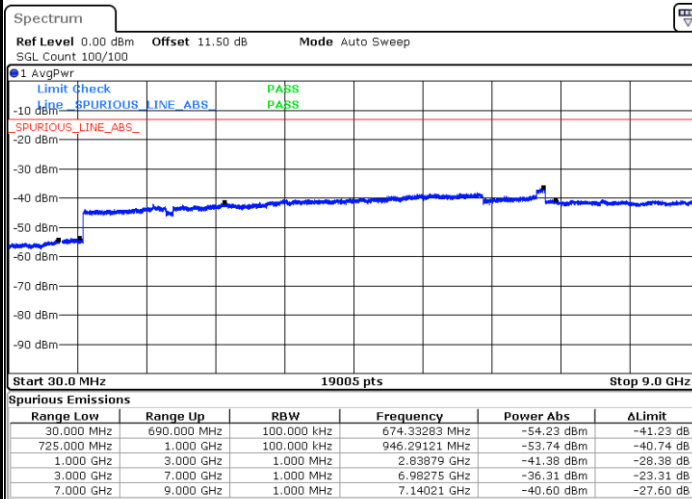
Highest Channel / 16QAM



Date: 27.MAY.2020 03:39:08

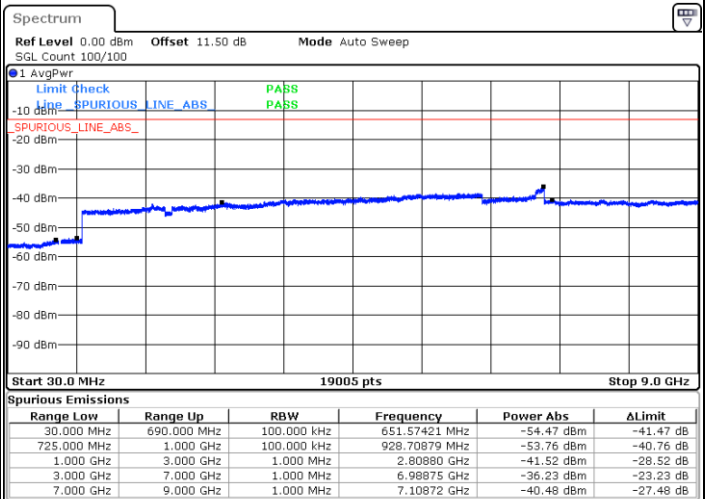
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 27.MAY.2020 03:44:41

Lowest Channel / 16QAM

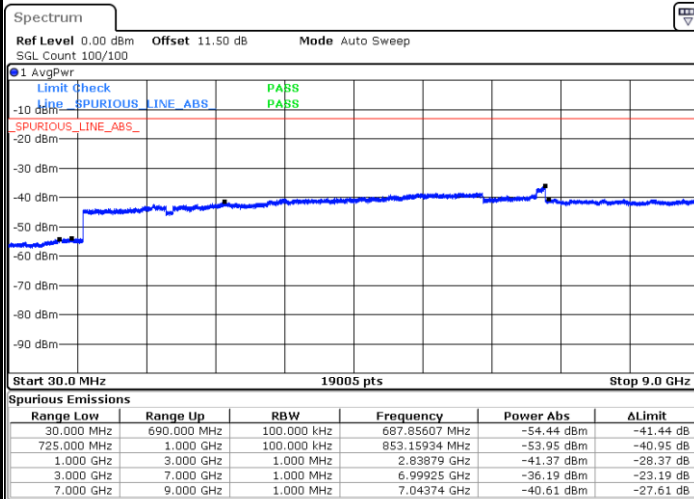


Date: 27.MAY.2020 03:45:37



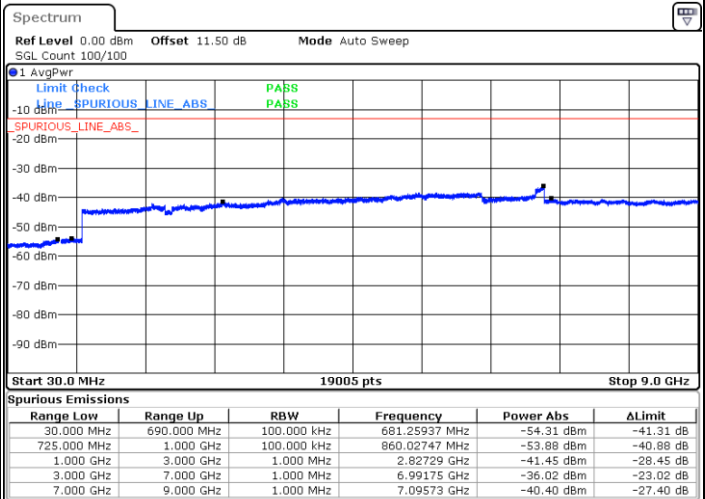
LTE Band 12 / 10MHz

Middle Channel / QPSK



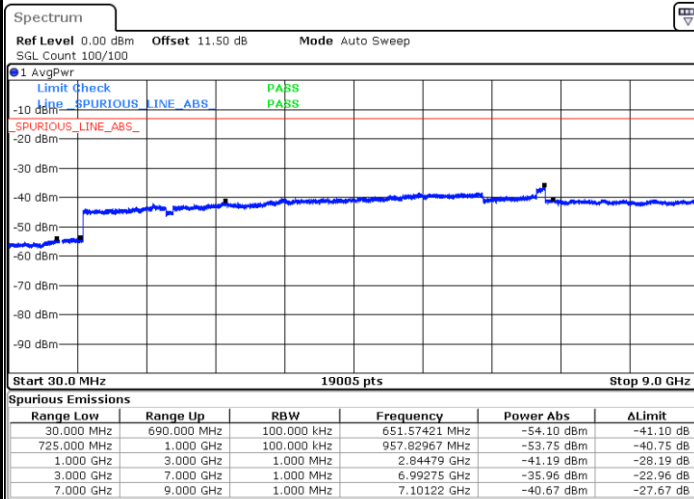
Date: 27.MAY.2020 03:48:19

Middle Channel / 16QAM



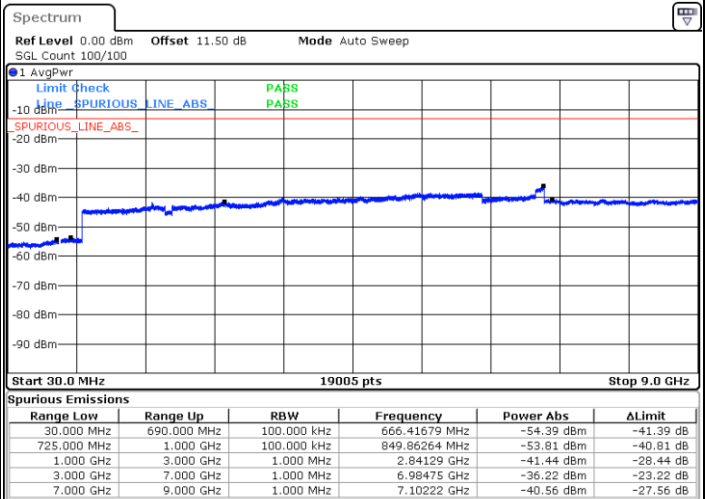
Date: 27.MAY.2020 03:47:24

Highest Channel / QPSK



Date: 27.MAY.2020 03:52:54

Highest Channel / 16QAM

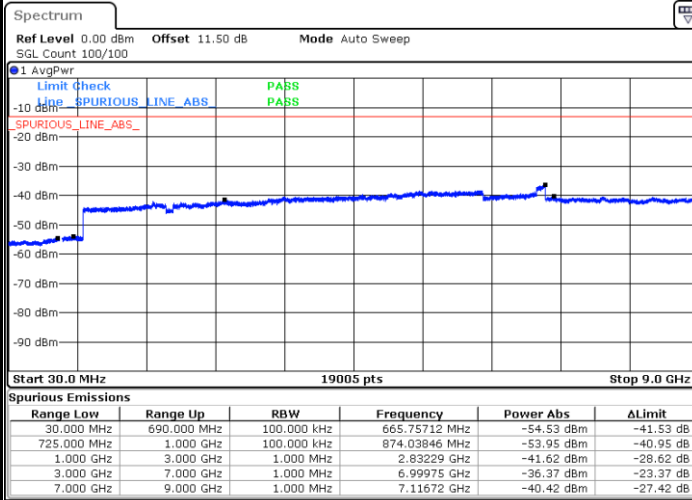


Date: 27.MAY.2020 03:53:49



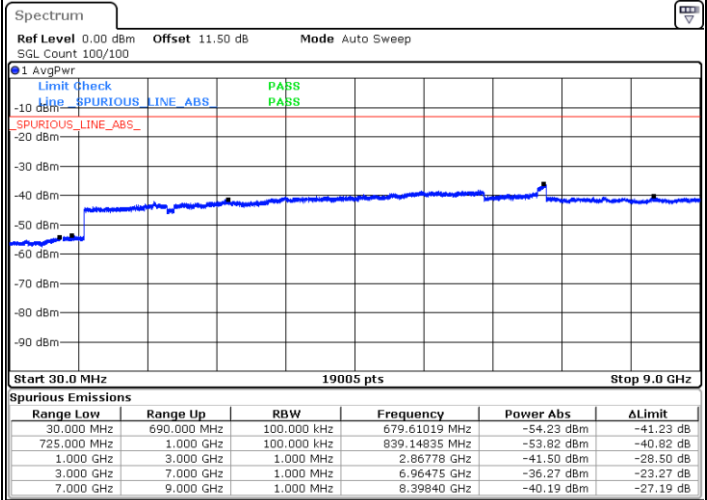
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



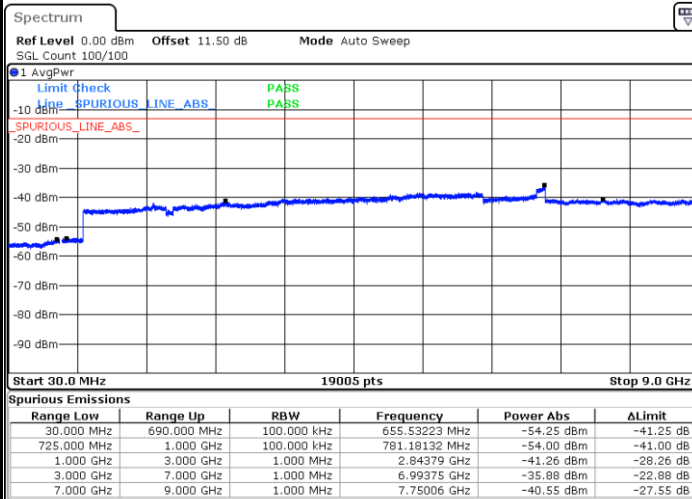
Date: 27.MAY.2020 02:26:09

Middle Channel / 64QAM



Date: 27.MAY.2020 02:27:30

Highest Channel / 64QAM

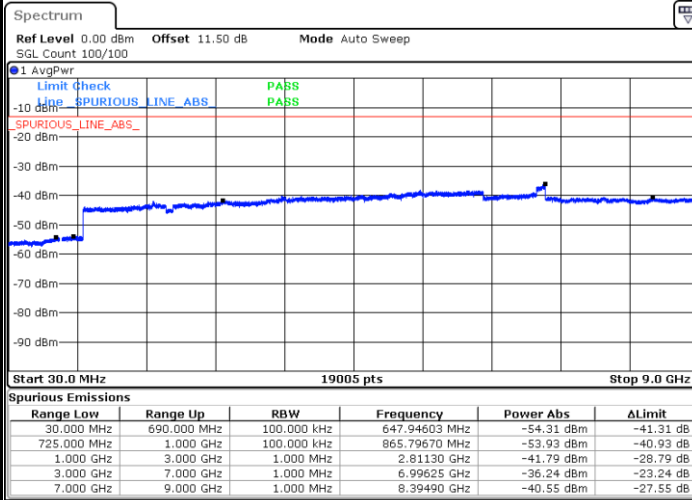


Date: 27.MAY.2020 02:40:29



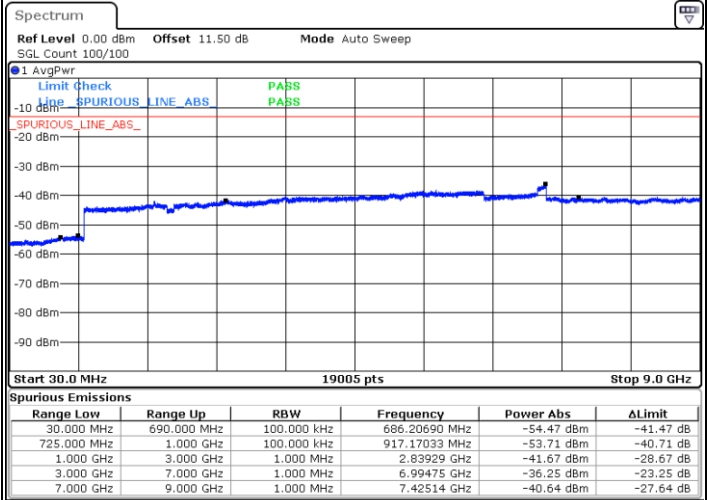
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



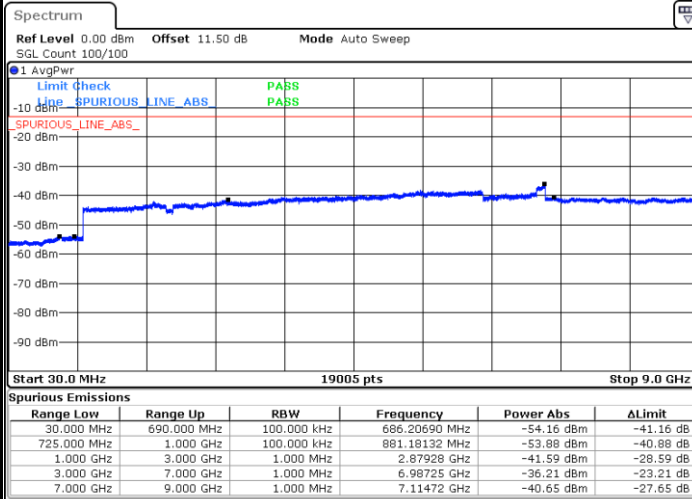
Date: 27.MAY.2020 03:00:18

Middle Channel / 64QAM



Date: 27.MAY.2020 03:01:40

Highest Channel / 64QAM

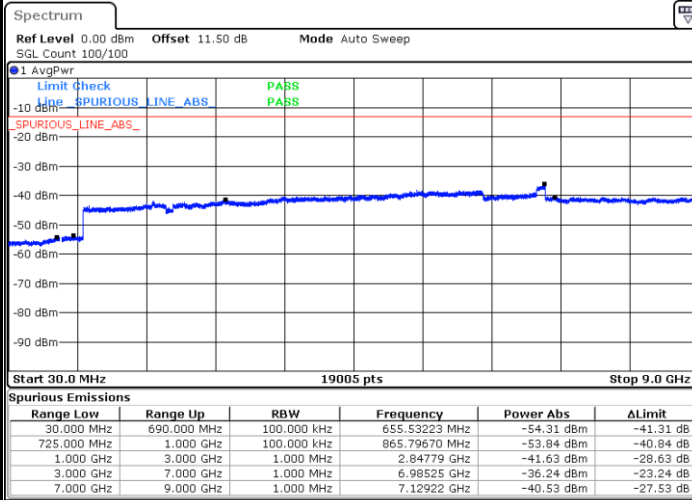


Date: 27.MAY.2020 03:06:09



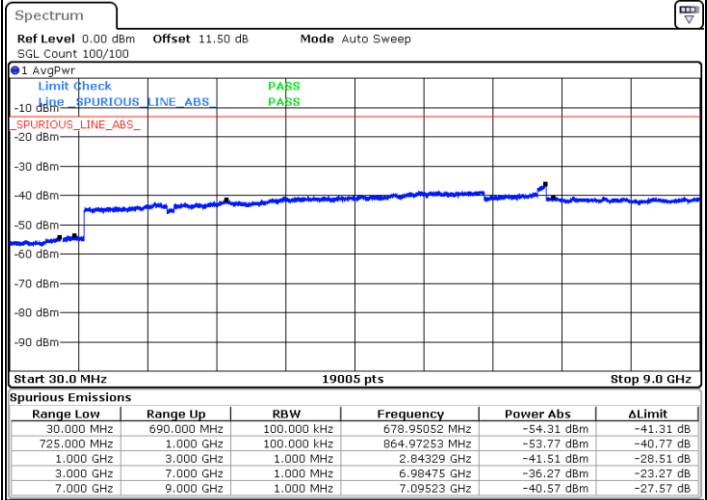
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



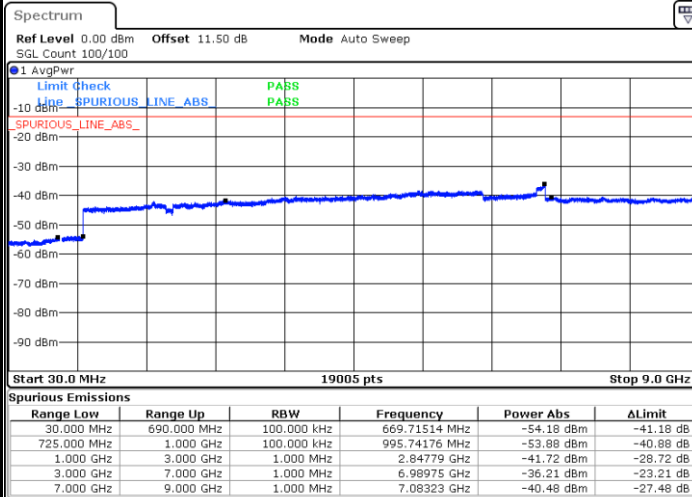
Date: 27.MAY.2020 03:16:08

Middle Channel / 64QAM



Date: 27.MAY.2020 03:17:31

Highest Channel / 64QAM

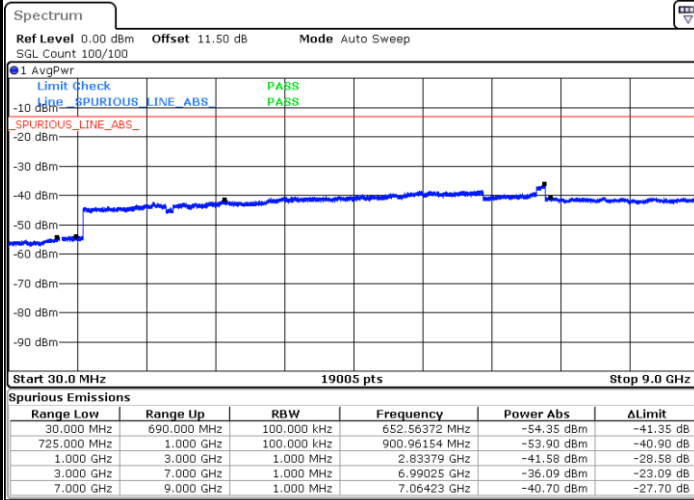


Date: 27.MAY.2020 03:20:17



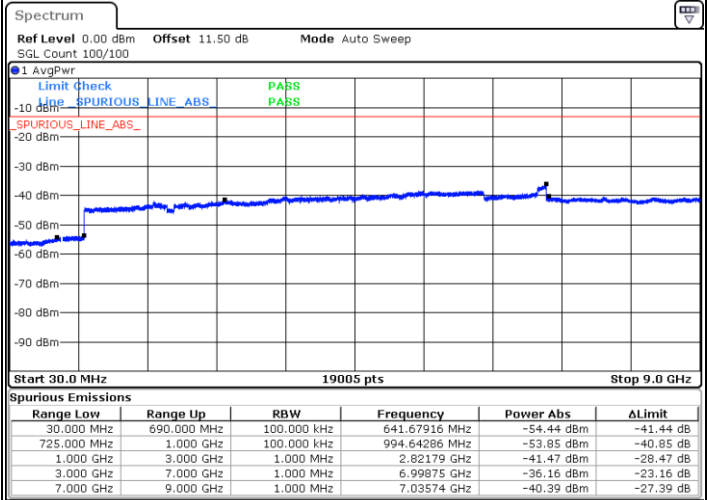
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



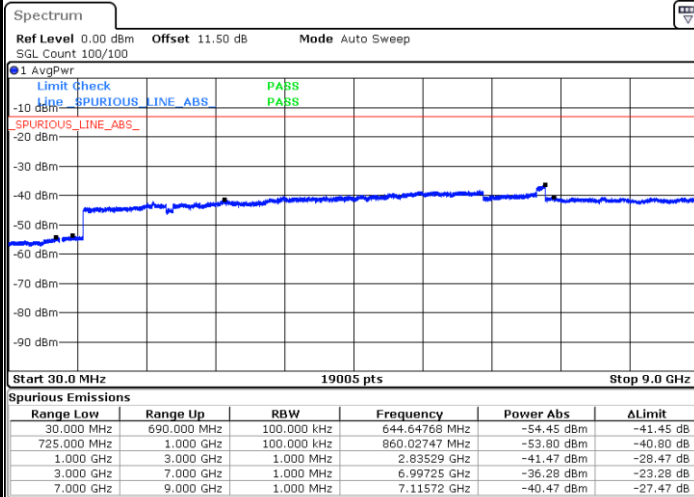
Date: 27.MAY.2020 03:56:34

Middle Channel / 64QAM



Date: 27.MAY.2020 03:57:56

Highest Channel / 64QAM



Date: 27.MAY.2020 04:00:40

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0123	PASS
40	Normal Voltage	0.0122	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0123	
0	Normal Voltage	0.0073	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0106	
-30	Normal Voltage	0.0093	
20	Maximum Voltage	0.0045	
20	Normal Voltage	0.0123	
20	Battery End Point	0.0038	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.8 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

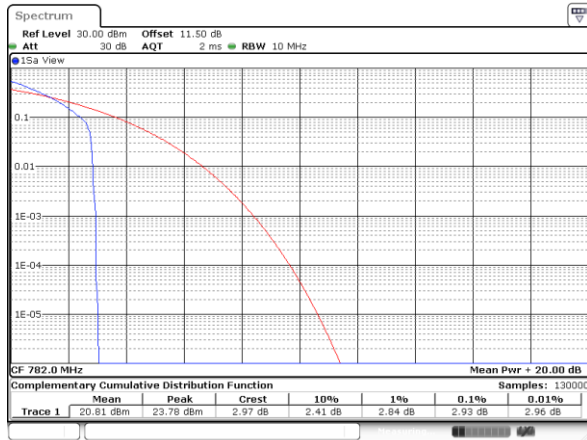
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	2.93	4.26	3.91	5.39	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.87	5.94	-	-	
Highest CH	-	-	-	-	

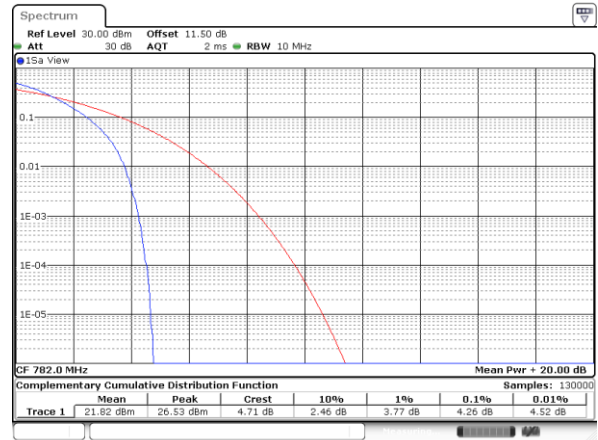


LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

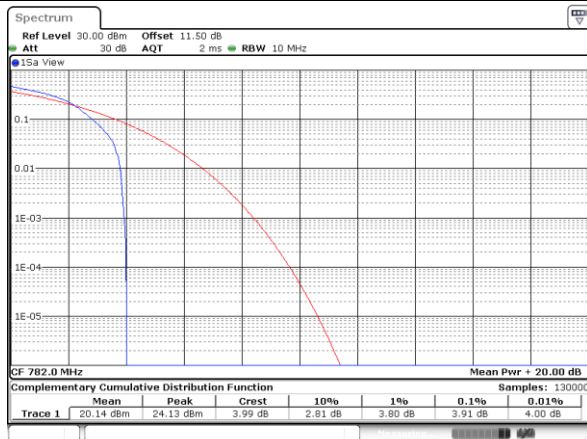


Middle Channel / Full RB

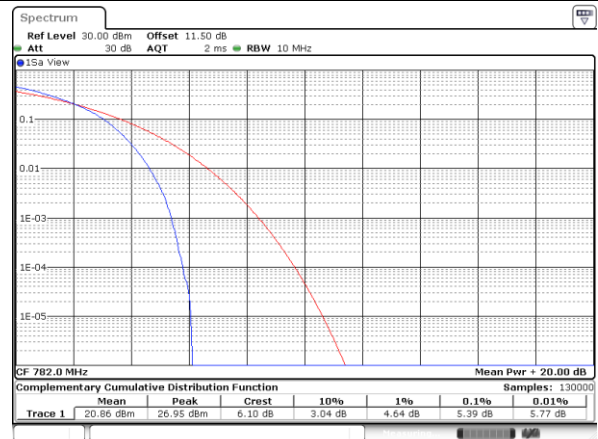


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB

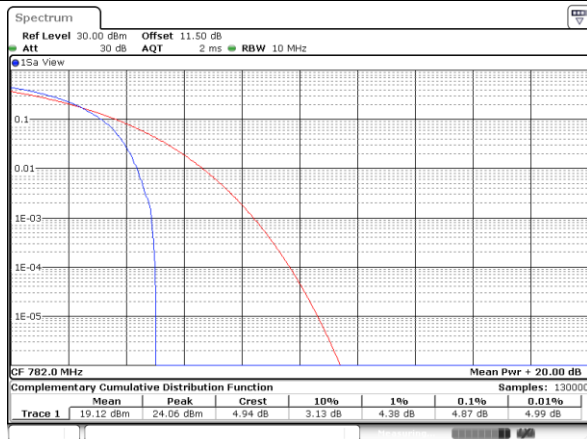


Middle Channel / Full RB

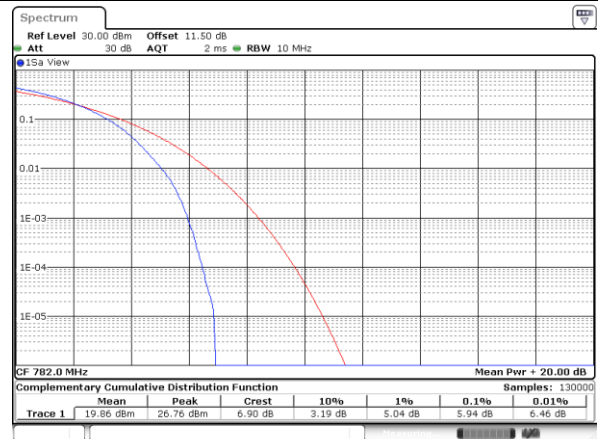


LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB



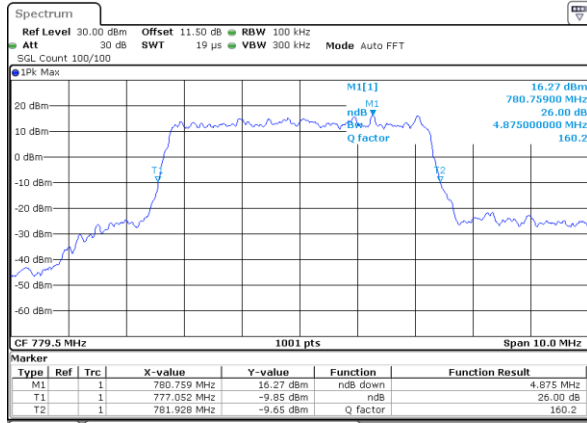
**26dB Bandwidth**

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	-	-	-	-	4.88	4.95	-	-	-	-	-	-
Middle CH	-	-	-	-	5.00	4.88	9.83	9.73	-	-	-	-
Highest CH	-	-	-	-	4.91	4.85	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.84	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.95	-	9.69	-	-	-	-	-
Highest CH	-	-	-	-	4.95	-	-	-	-	-	-	-

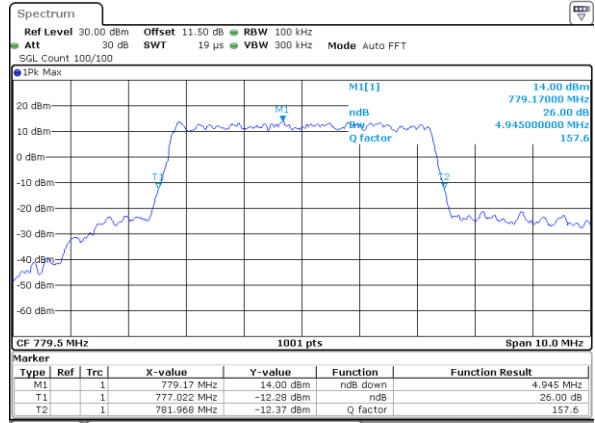


LTE Band 13

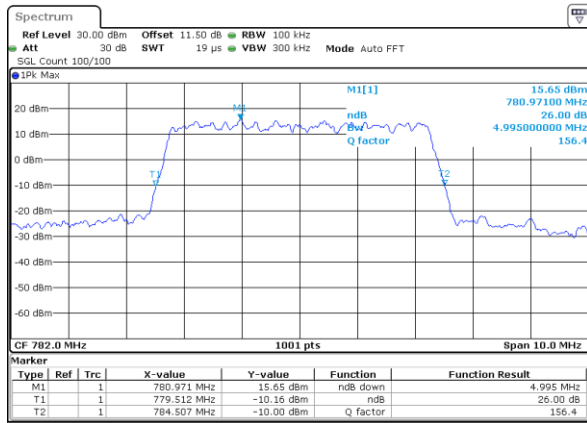
Lowest Channel / 5MHz / QPSK



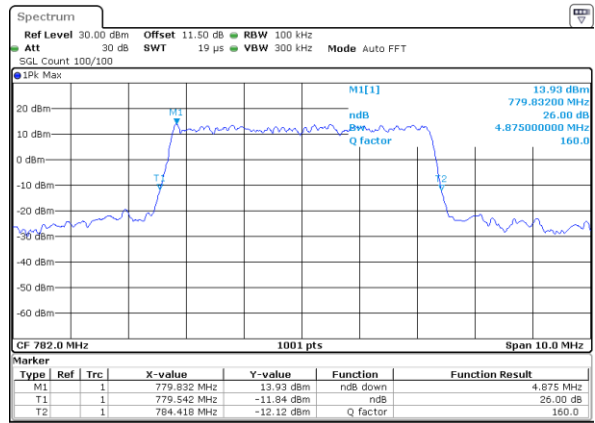
Lowest Channel / 5MHz / 16QAM



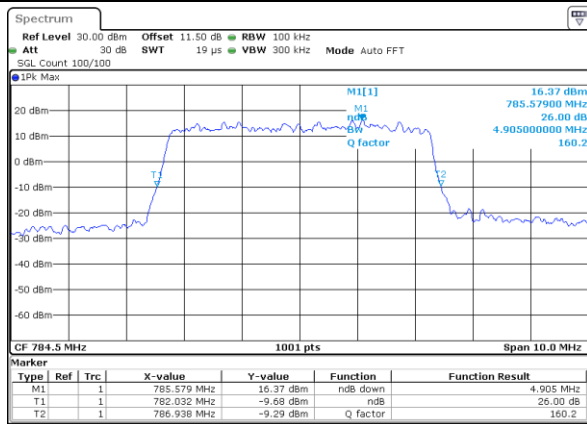
Middle Channel / 5MHz / QPSK



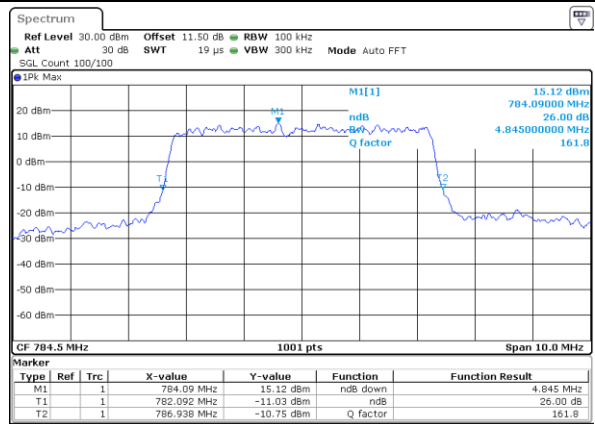
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



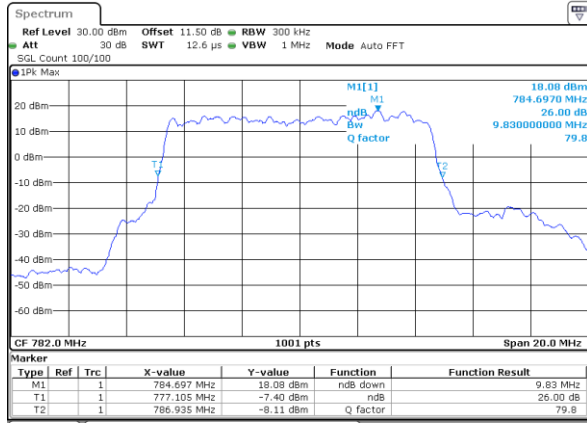
Highest Channel / 5MHz / 16QAM





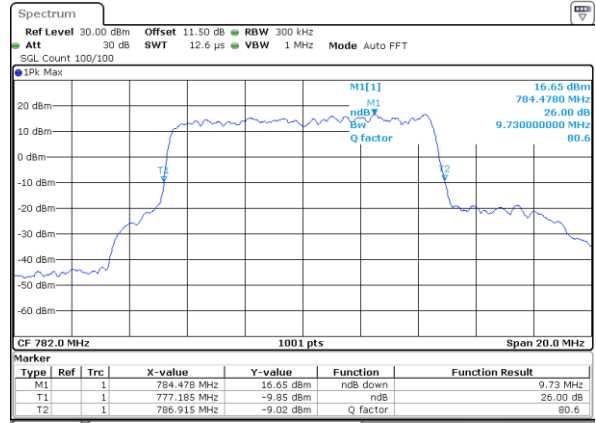
LTE Band 13

Middle Channel / 10MHz / QPSK



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Middle Channel / 10MHz / 16QAM

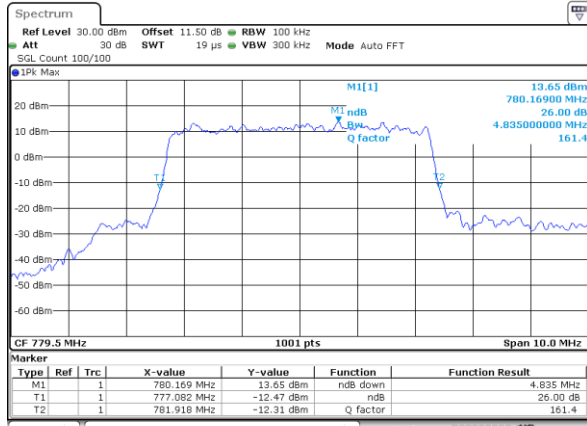


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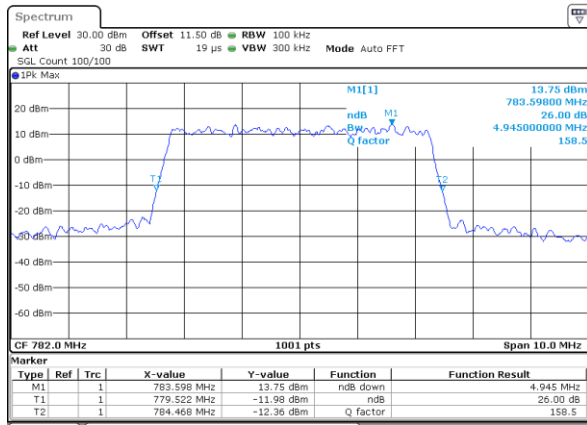


LTE Band 13

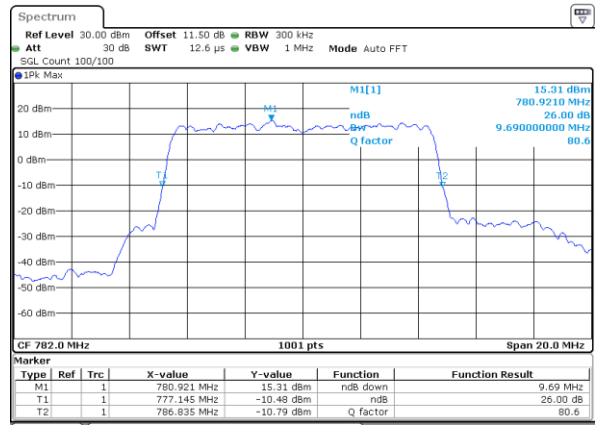
Lowest Channel / 5MHz / 64QAM



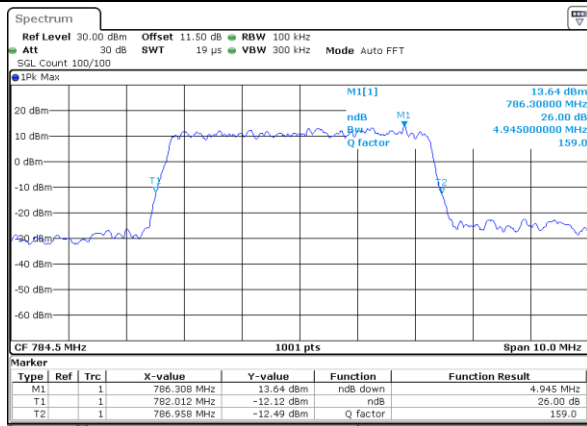
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



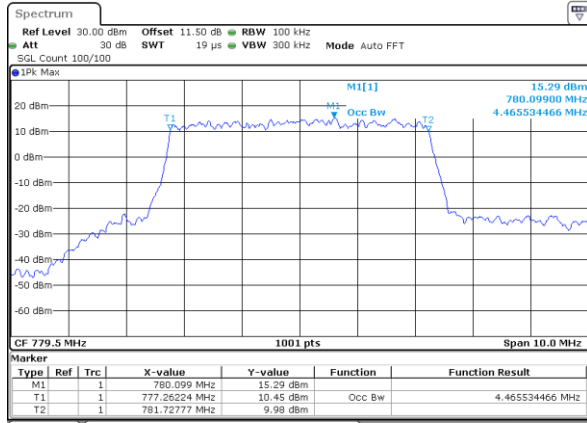
**Occupied Bandwidth**

Mode	LTE Band 13 : 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	-	-	-	-	4.47	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.50	9.01	9.01	-	-	-	-
Highest CH	-	-	-	-	4.50	4.50	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	-	9.01	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	-	-	-	-	-	-

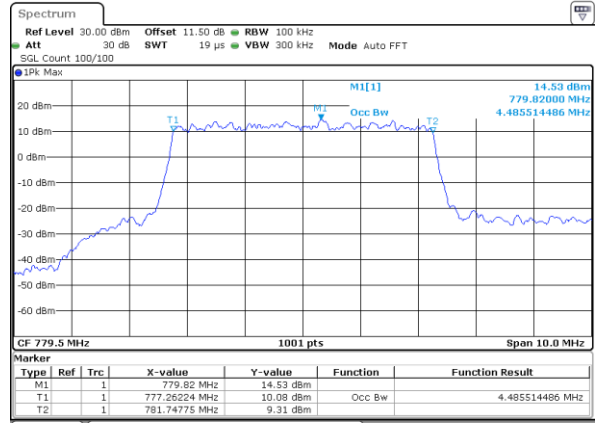


LTE Band 13

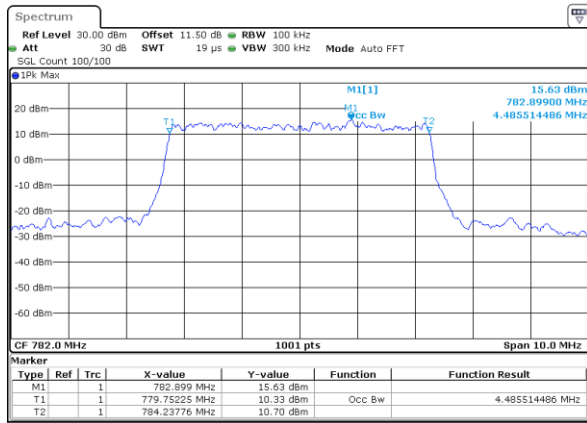
Lowest Channel / 5MHz / QPSK



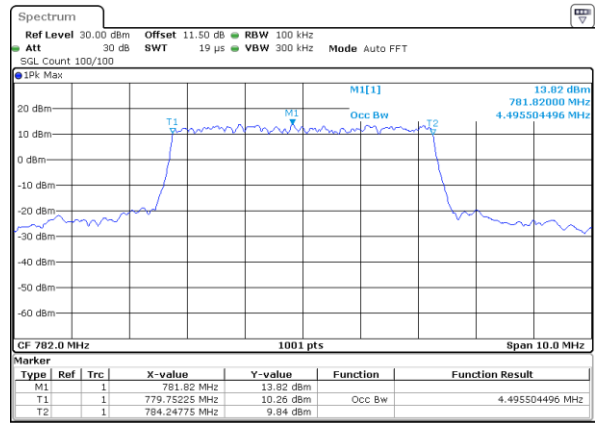
Lowest Channel / 5MHz / 16QAM



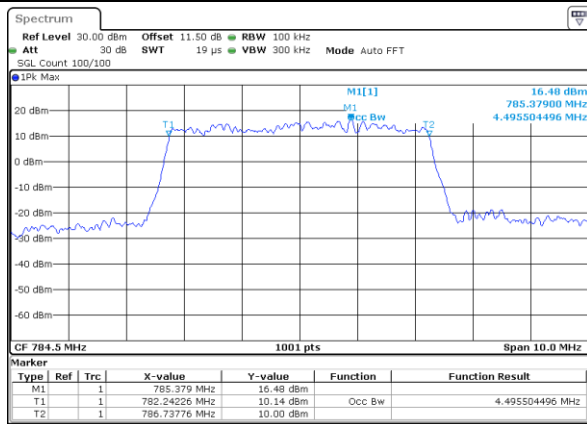
Middle Channel / 5MHz / QPSK



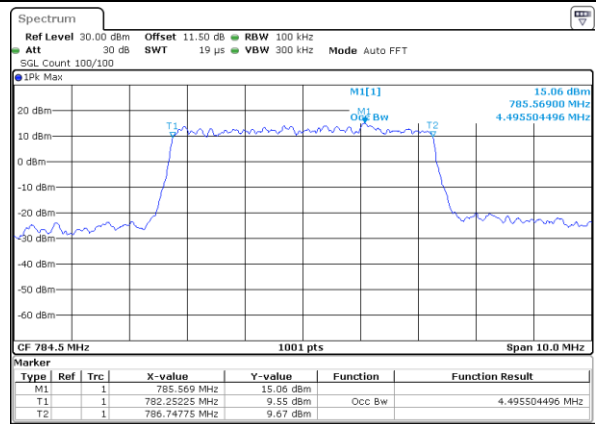
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



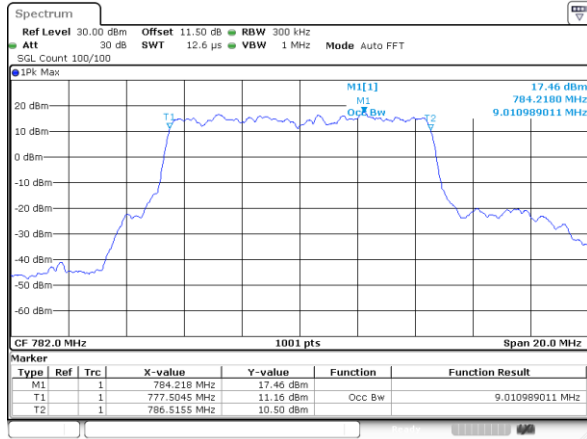
Highest Channel / 5MHz / 16QAM





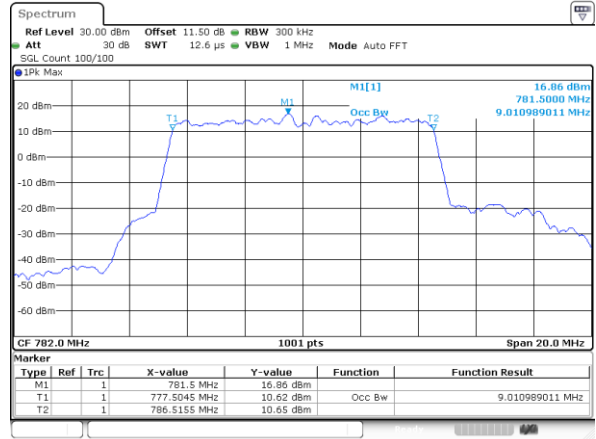
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 27.MAY.2020 05:30:43

Middle Channel / 10MHz / 16QAM



Date: 27.MAY.2020 05:30:56