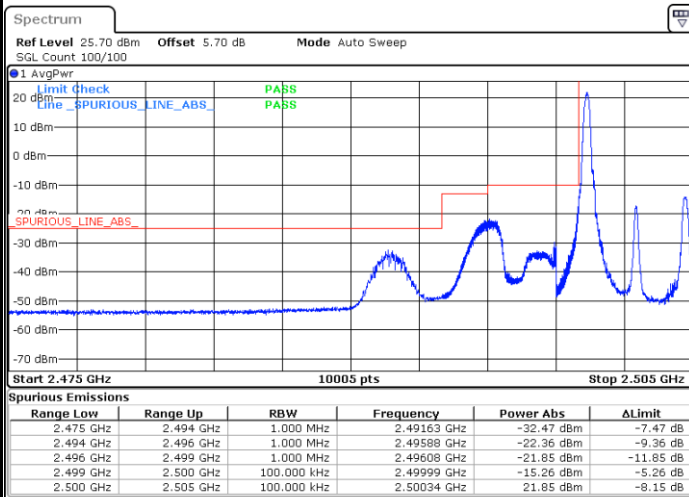




Conducted Band Edge

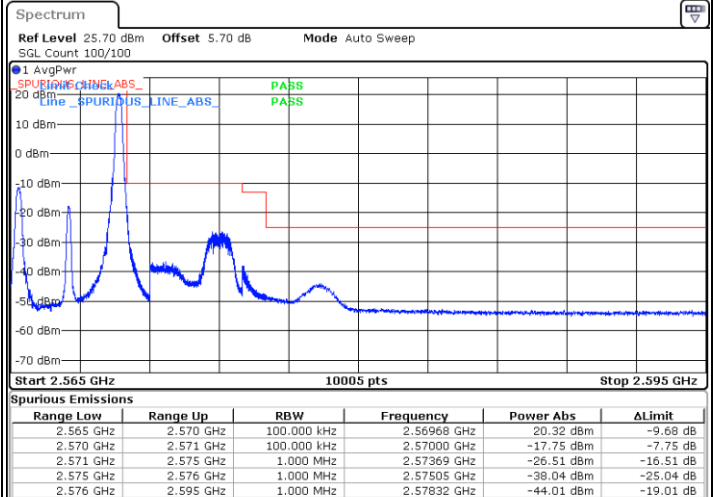
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



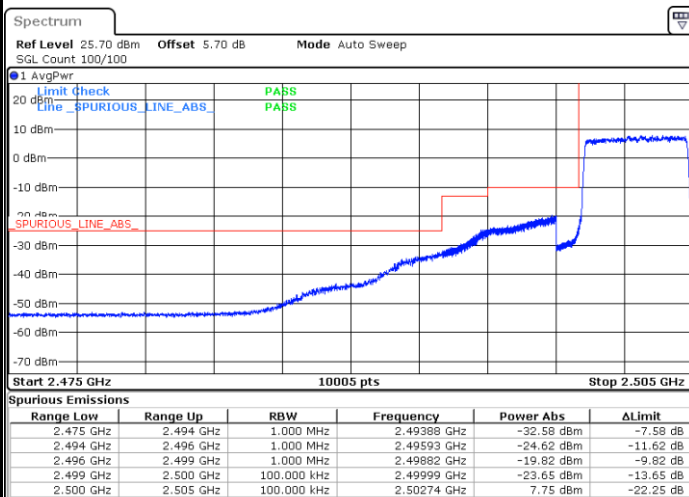
Date: 31 DEC 2019 14:35:21

Highest Band Edge / 1 RB



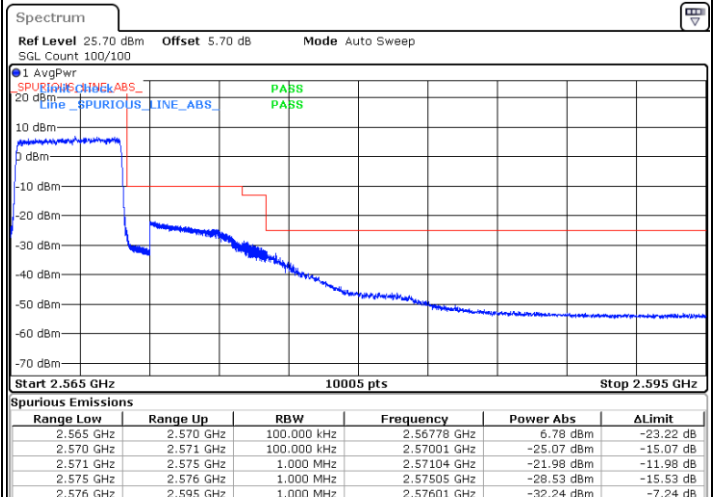
Date: 31 DEC 2019 13:54:20

Lowest Band Edge / Full RB



Date: 31 DEC 2019 14:34:58

Highest Band Edge / Full RB

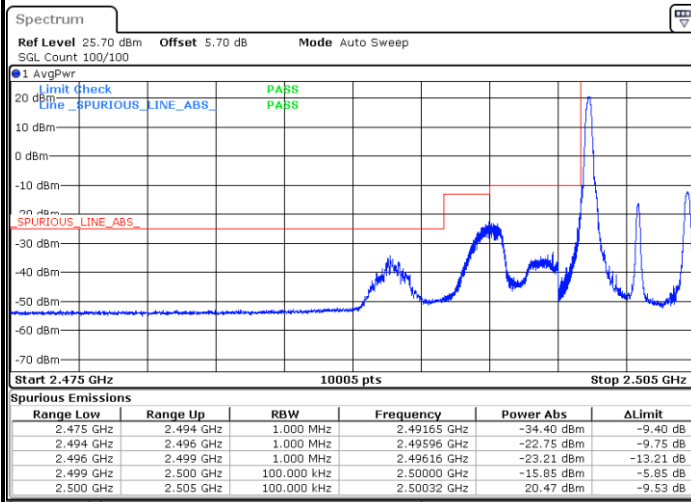


Date: 31 DEC 2019 13:50:56

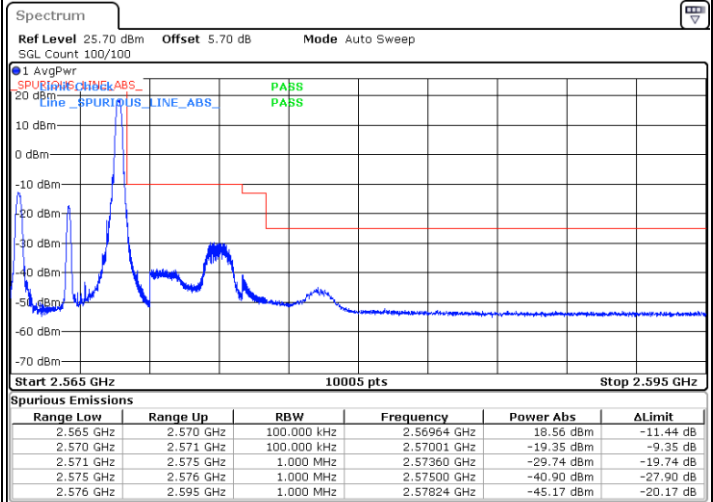


LTE Band 7 / 5MHz / 16QAM

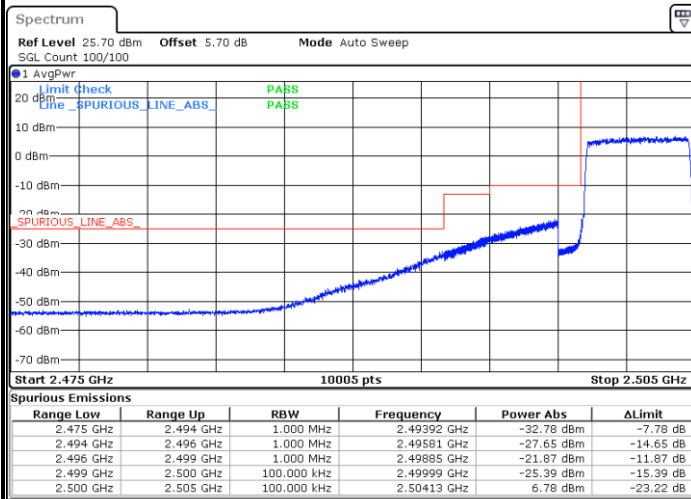
Lowest Band Edge / 1 RB



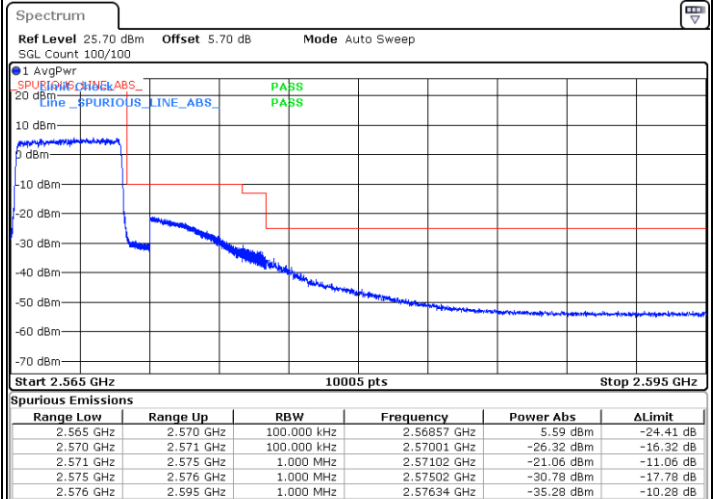
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



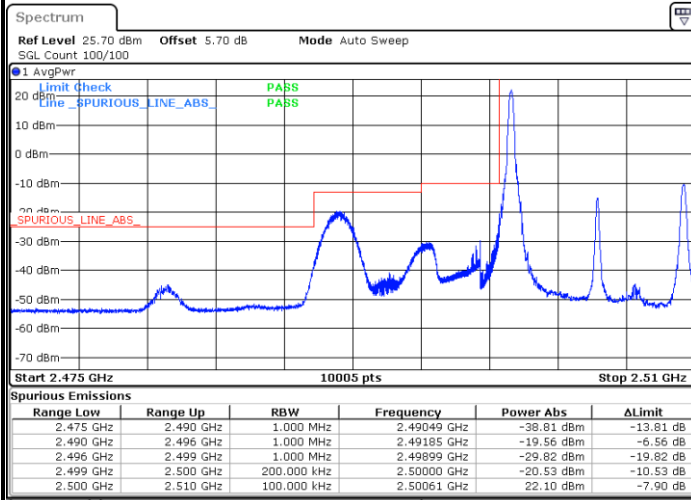
Highest Band Edge / Full RB



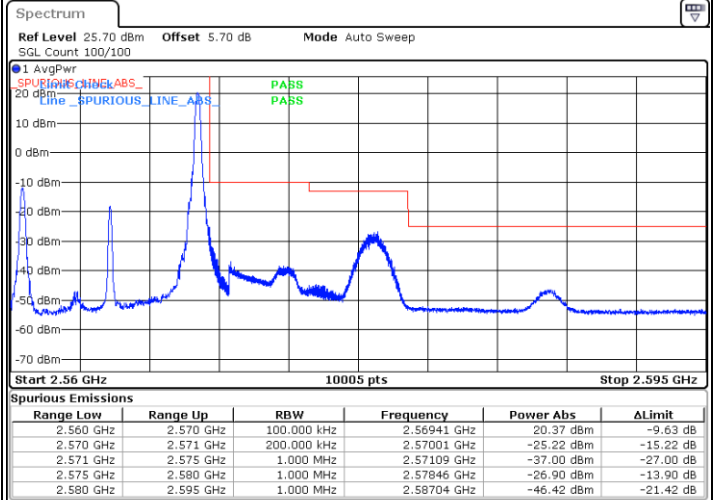


LTE Band 7 / 10MHz / QPSK

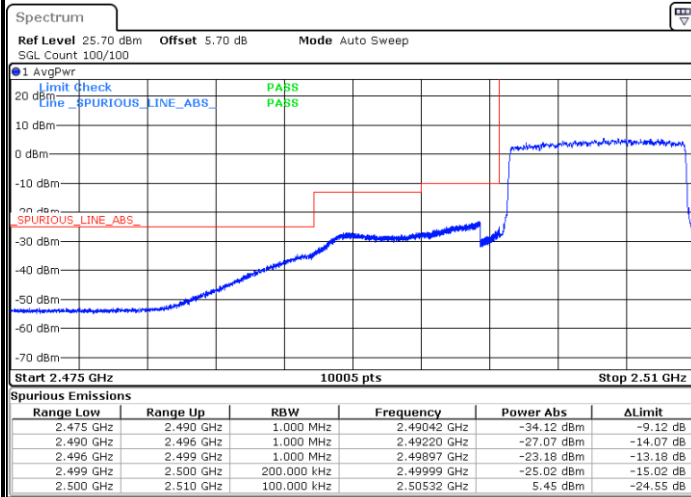
Lowest Band Edge / 1 RB



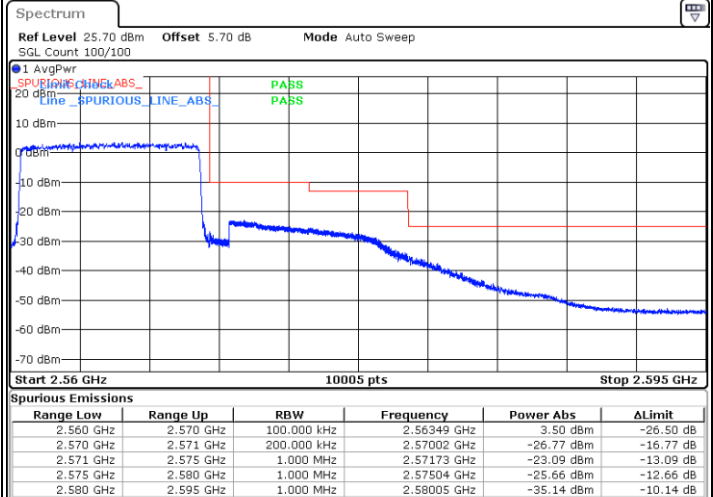
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



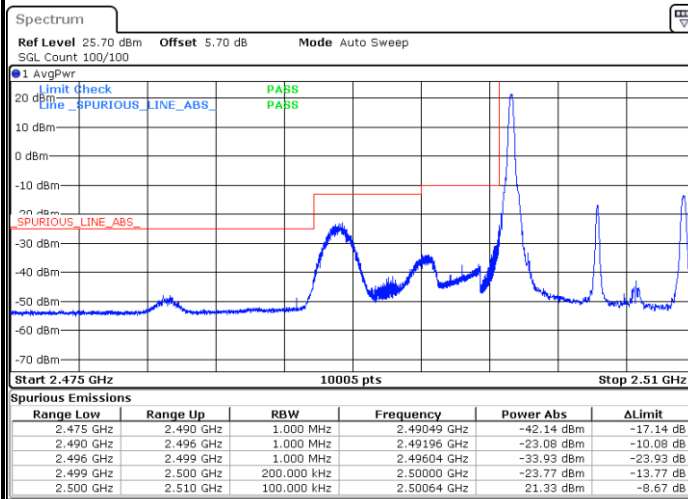
Highest Band Edge / Full RB



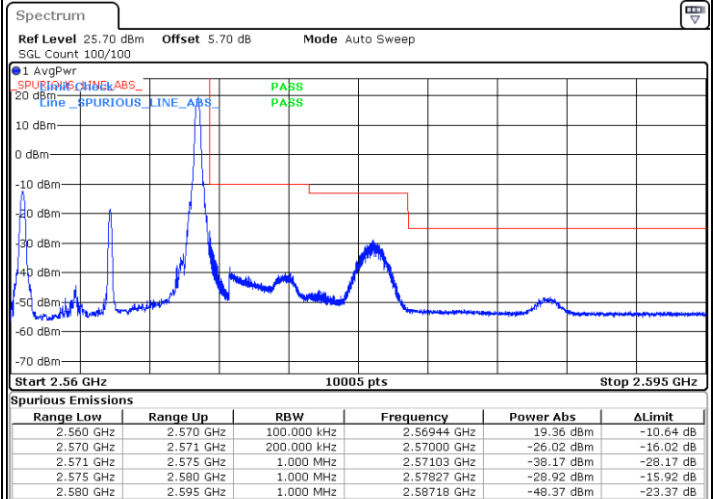


LTE Band 7 / 10MHz / 16QAM

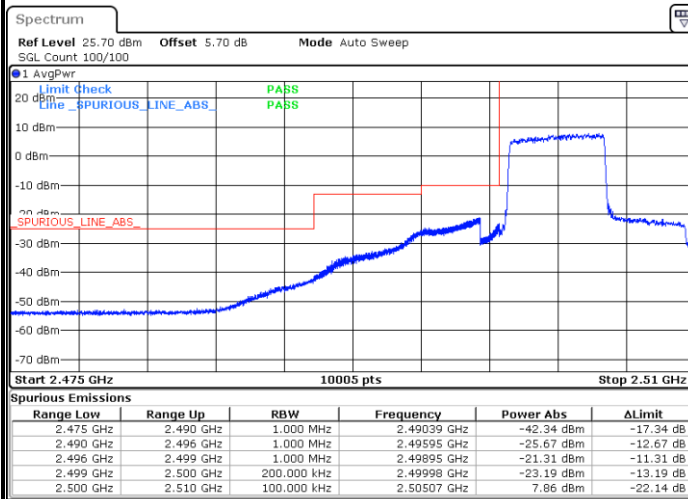
Lowest Band Edge / 1 RB



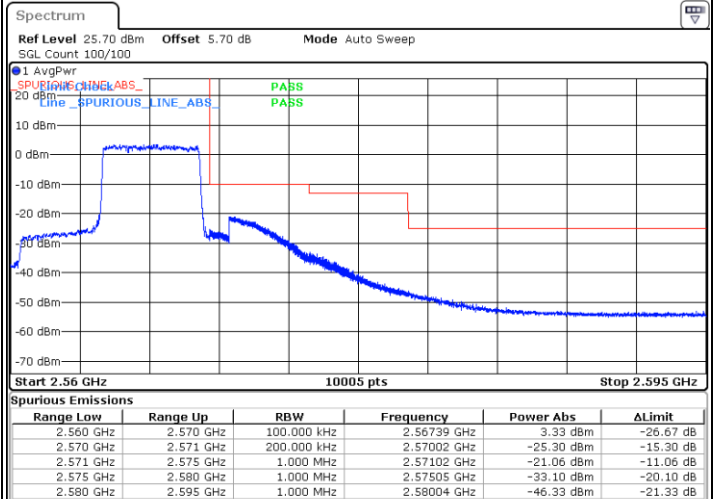
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



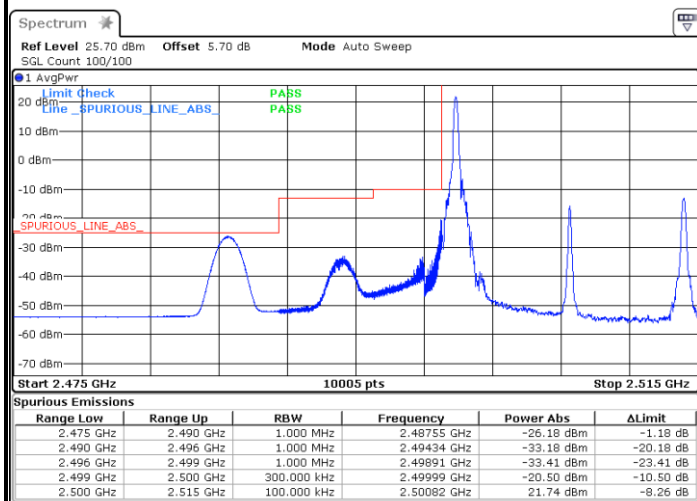
Highest Band Edge / Full RB



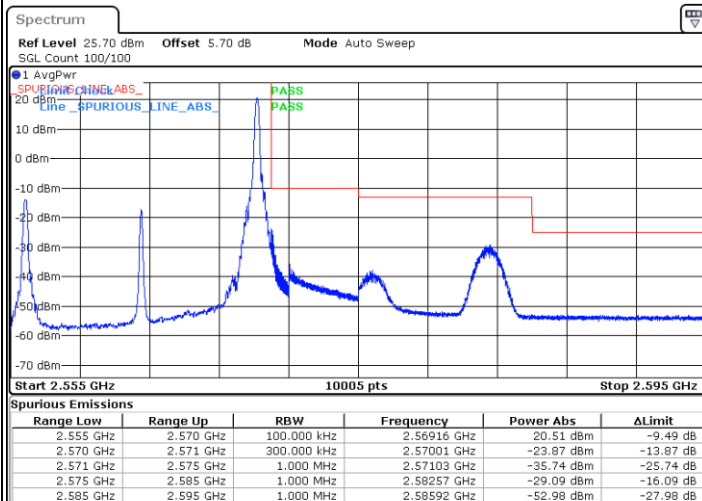


LTE Band 7 / 15MHz / QPSK

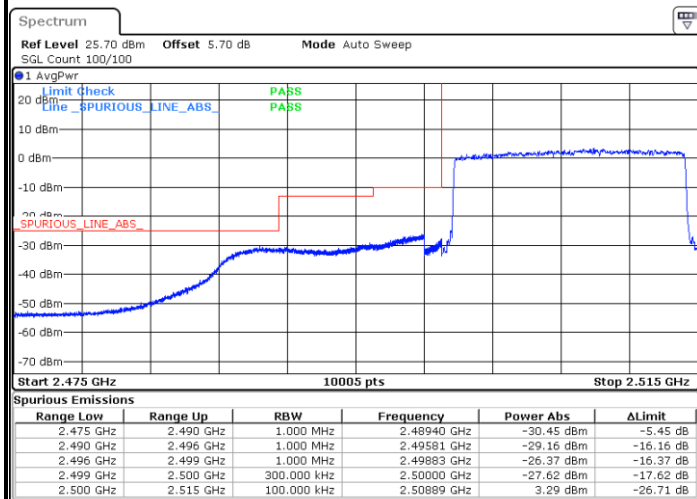
Lowest Band Edge / 1 RB



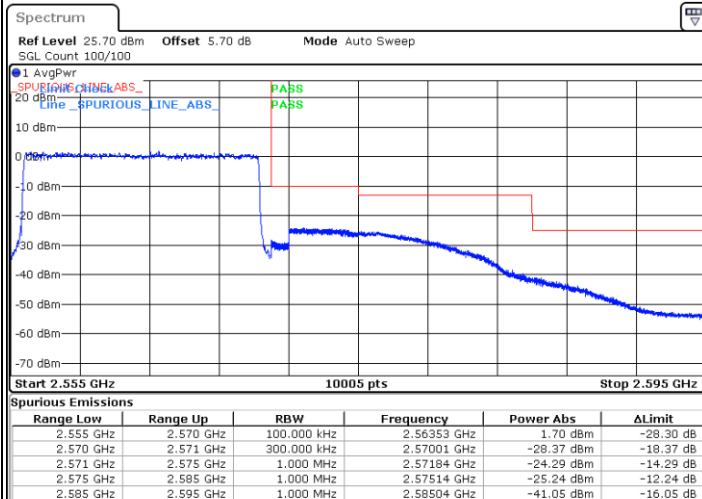
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



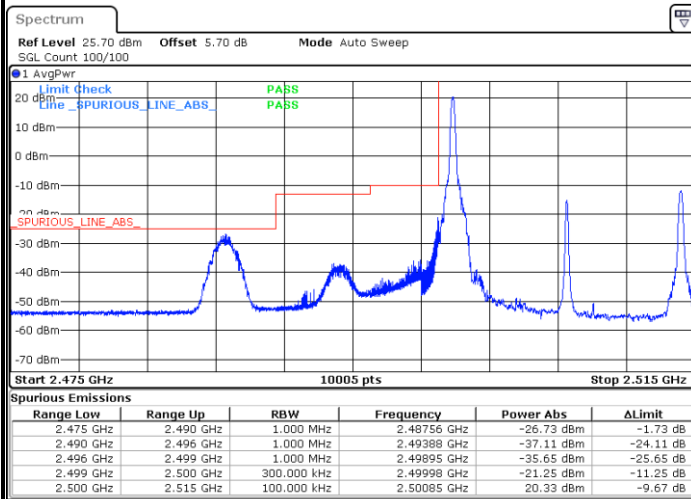
Highest Band Edge / Full RB



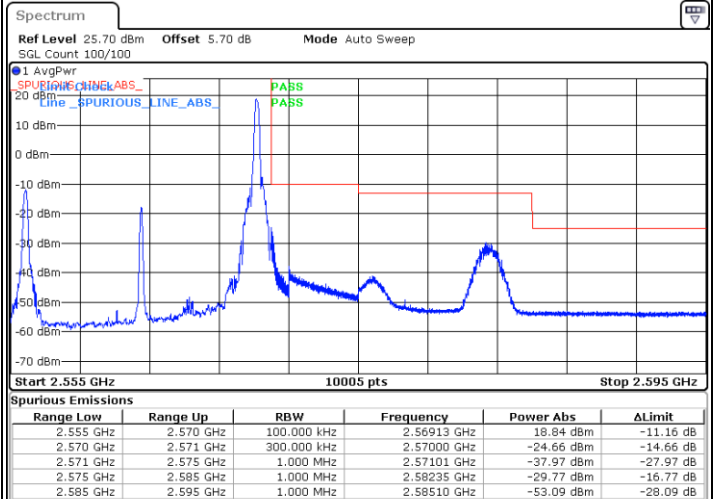


LTE Band 7 / 15MHz / 16QAM

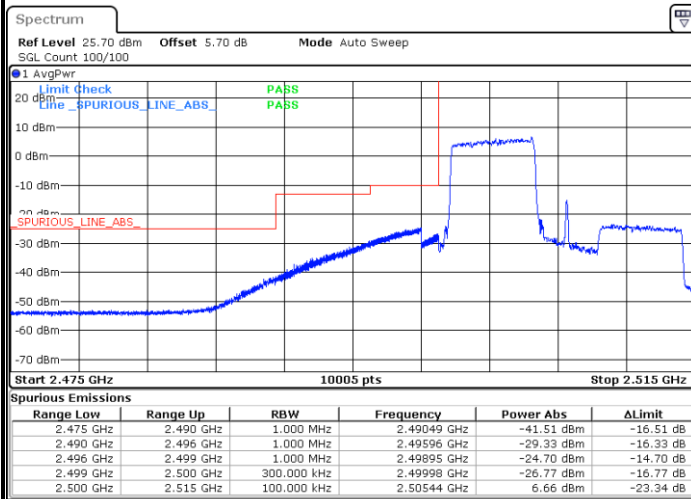
Lowest Band Edge / 1 RB



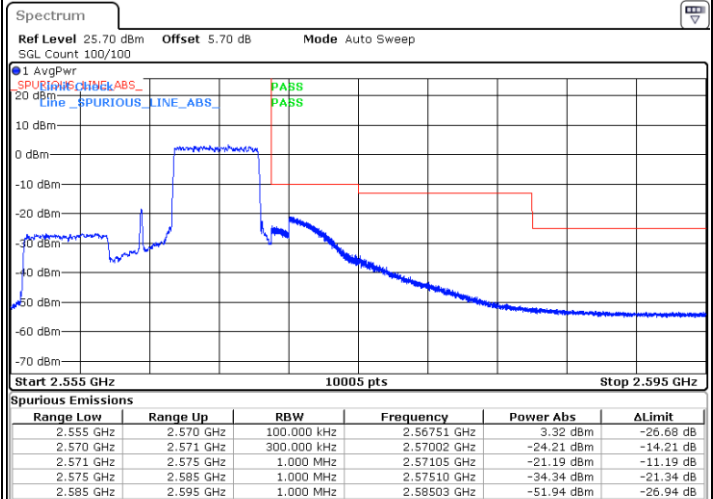
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



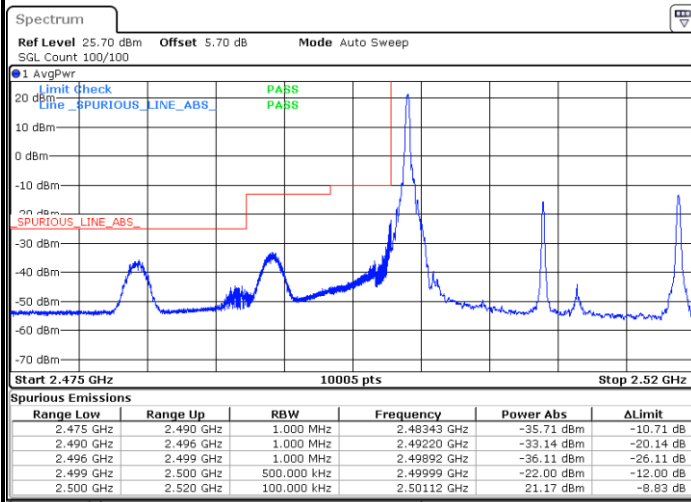
Highest Band Edge / Full RB



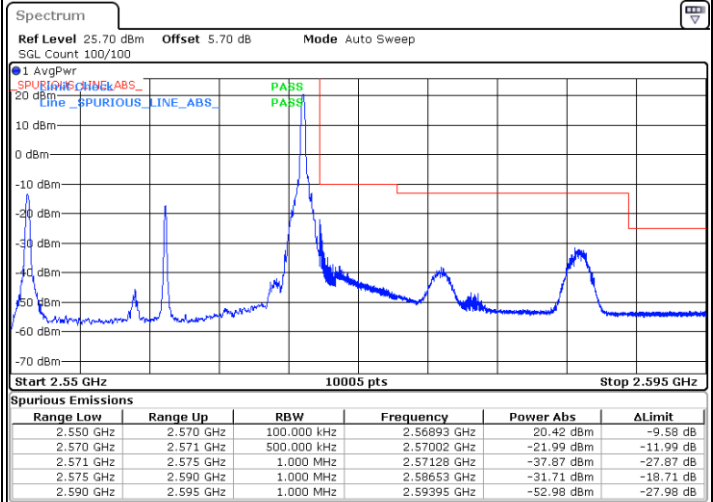


LTE Band 7 / 20MHz / QPSK

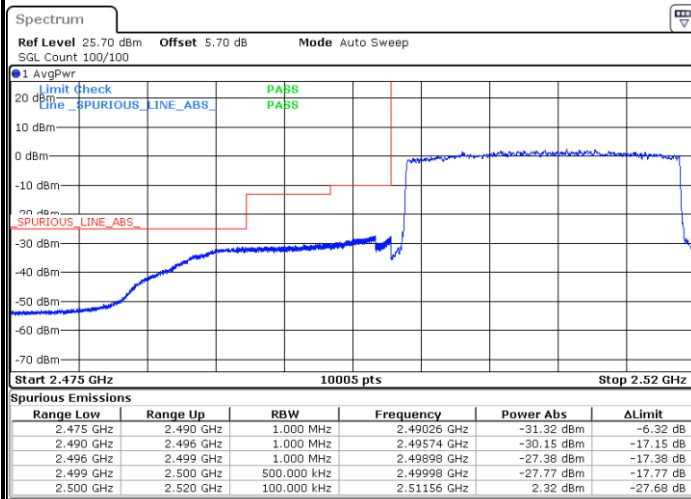
Lowest Band Edge / 1 RB



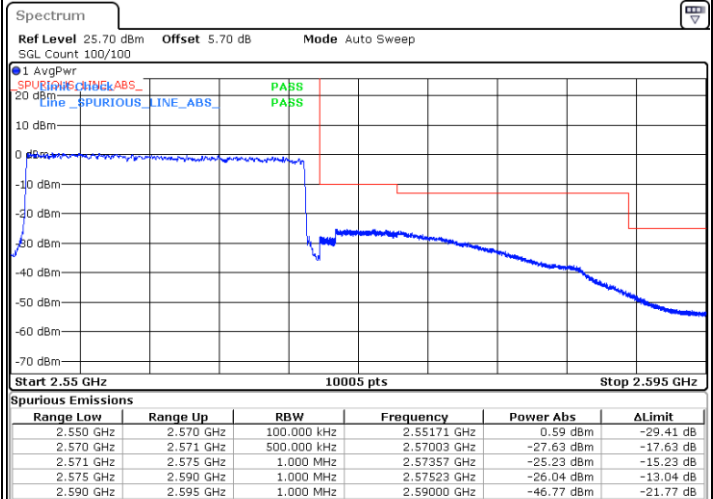
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



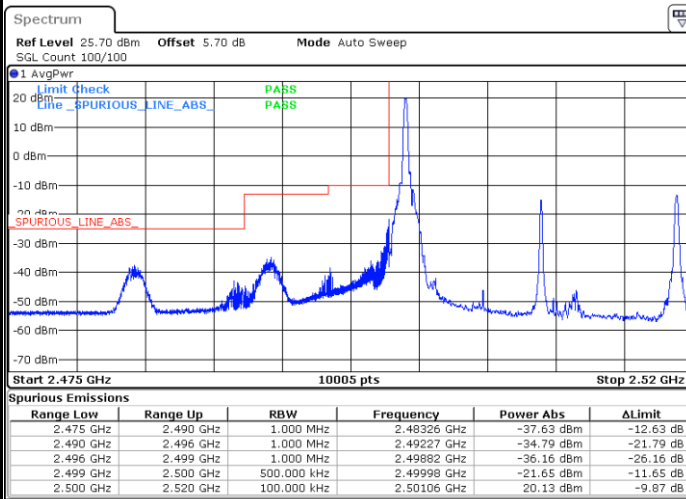
Highest Band Edge / Full RB



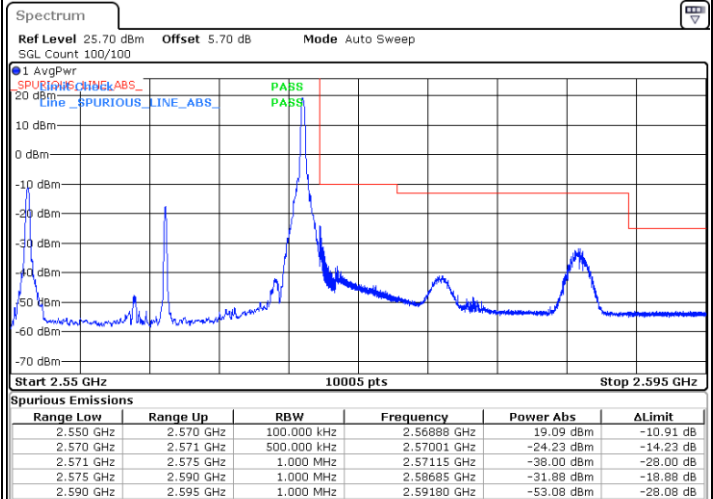


LTE Band 7 / 20MHz / 16QAM

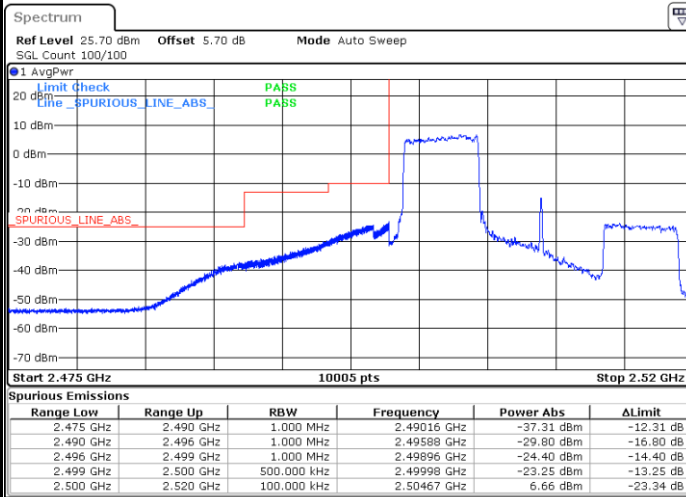
Lowest Band Edge / 1 RB



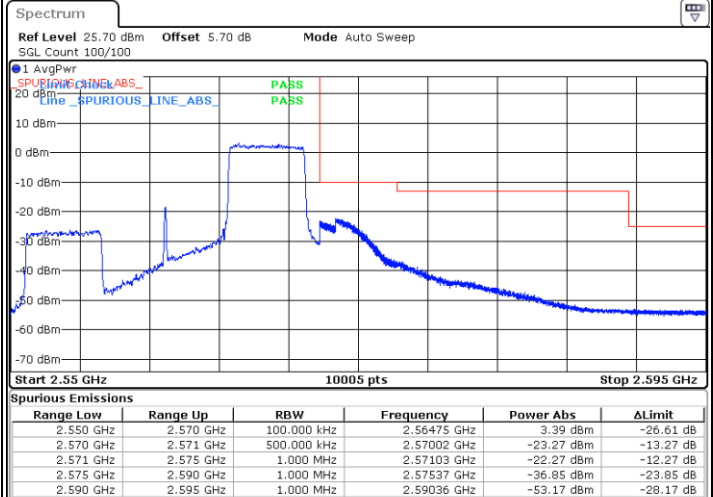
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

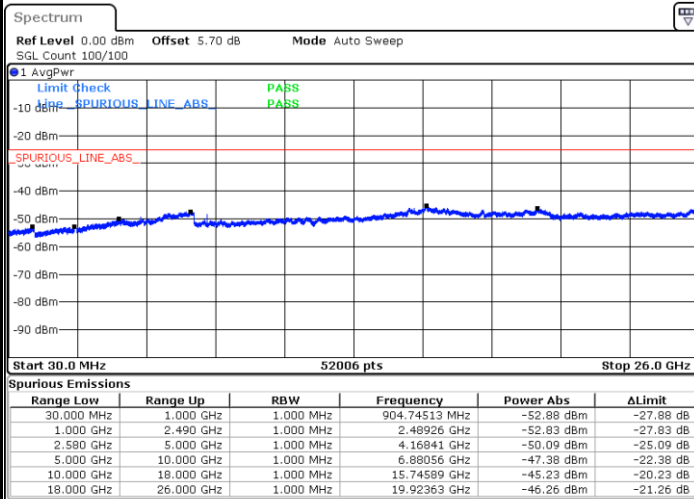




Conducted Spurious Emission

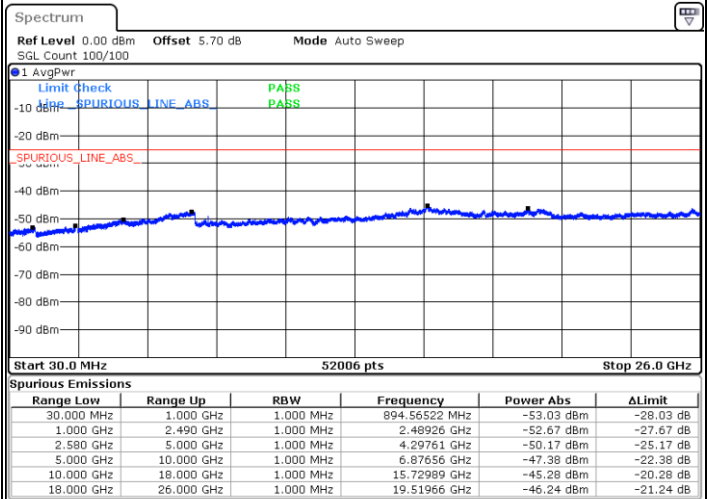
LTE Band 7 / 5MHz

Lowest Channel / QPSK



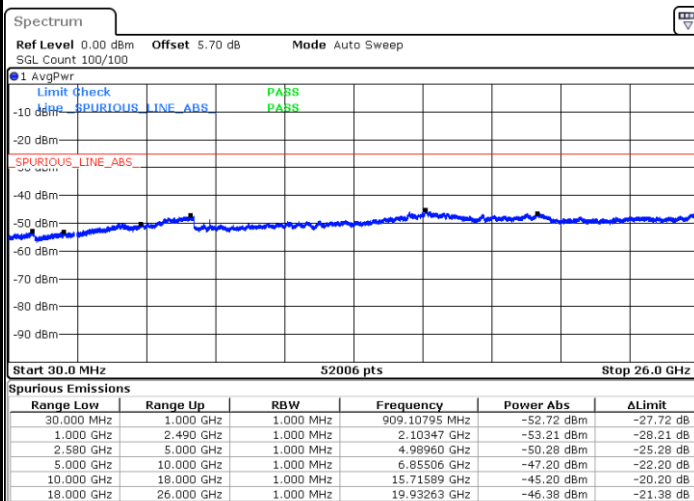
Date: 31 DEC 2019 13:55:13

Lowest Channel / 16QAM



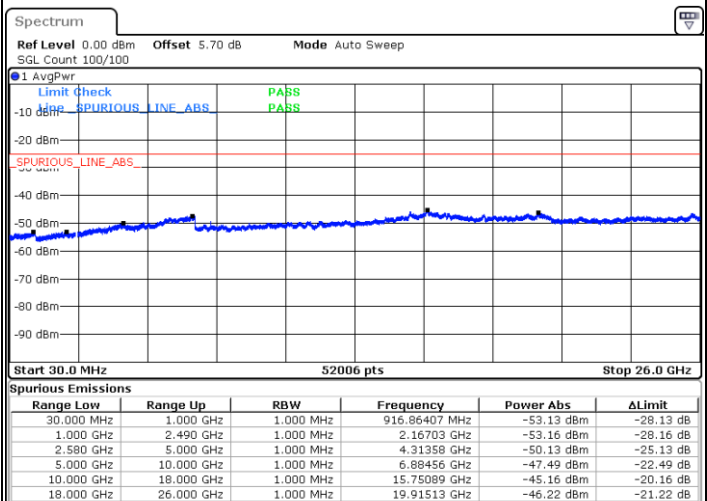
Date: 31 DEC 2019 13:56:07

Middle Channel / QPSK



Date: 31 DEC 2019 13:57:54

Middle Channel / 16QAM

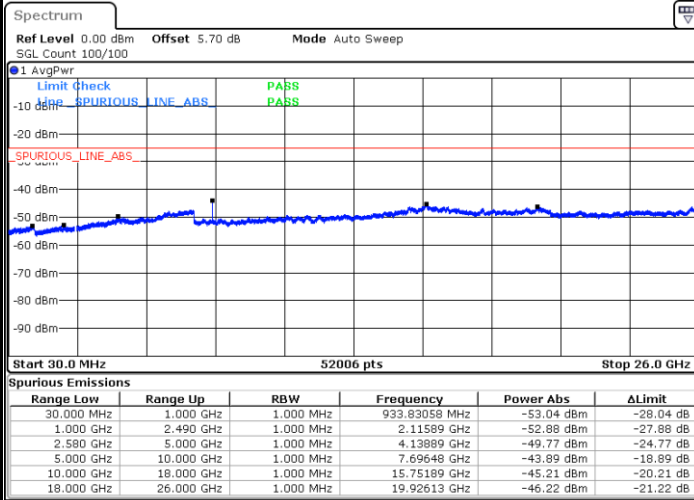


Date: 31 DEC 2019 13:57:01



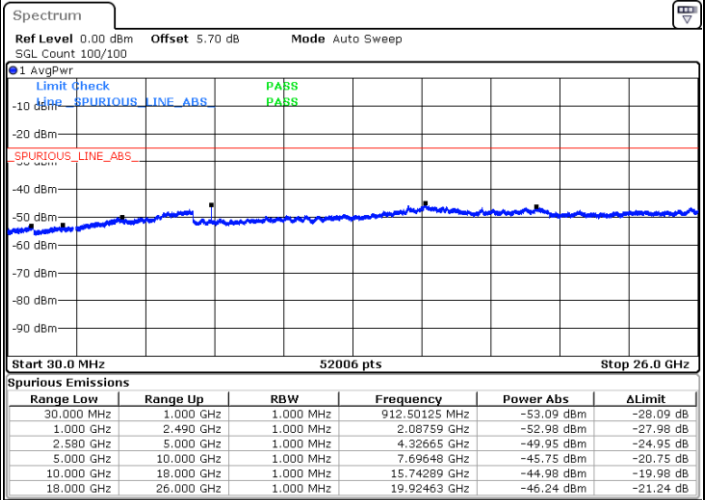
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 31 DEC 2019 13:58:48

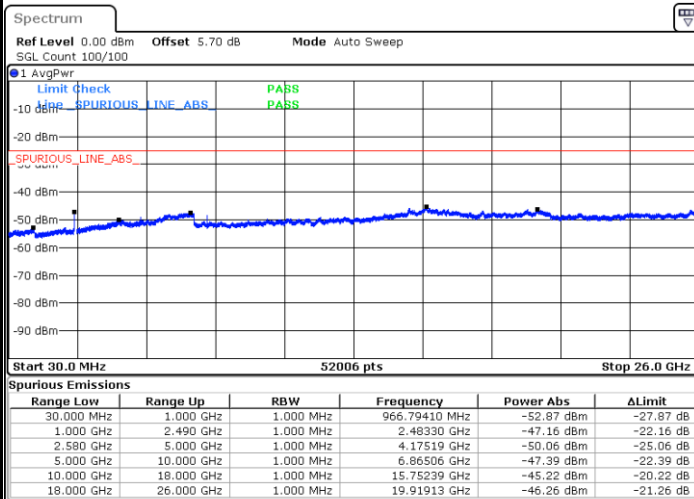
Highest Channel / 16QAM



Date: 31 DEC 2019 13:59:42

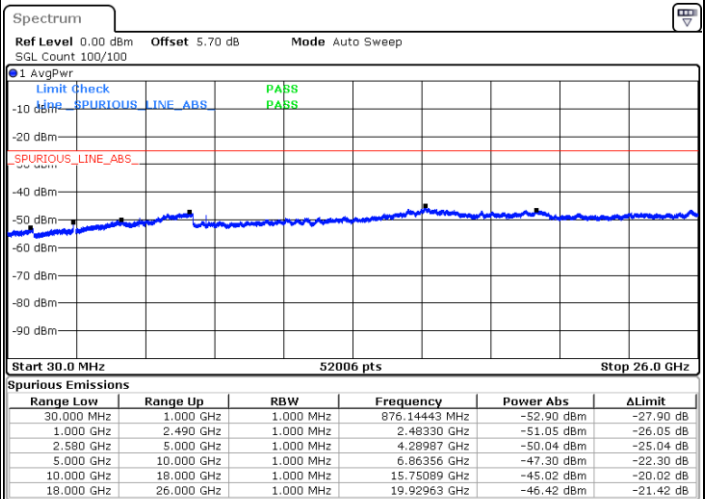
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 31 DEC 2019 14:05:00

Lowest Channel / 16QAM

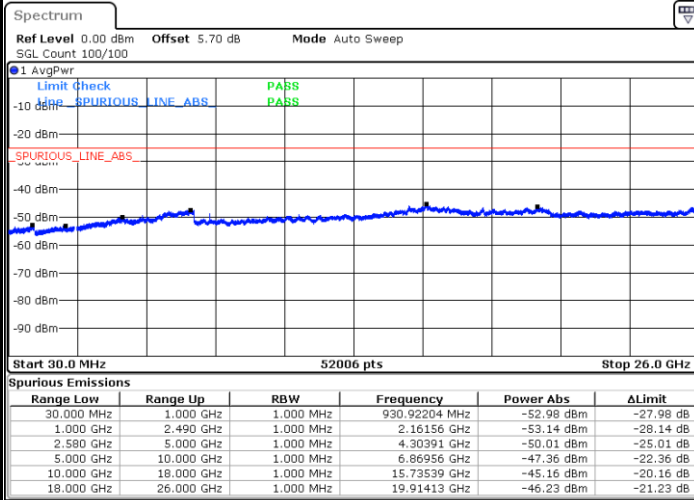


Date: 31 DEC 2019 14:05:53



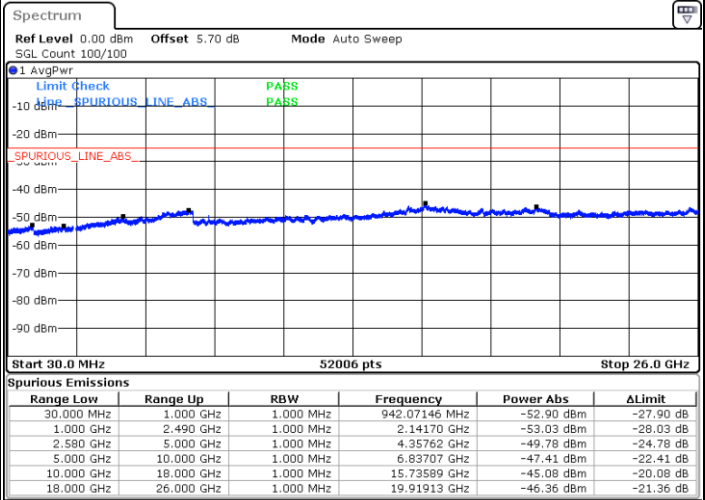
LTE Band 7 / 10MHz

Middle Channel / QPSK



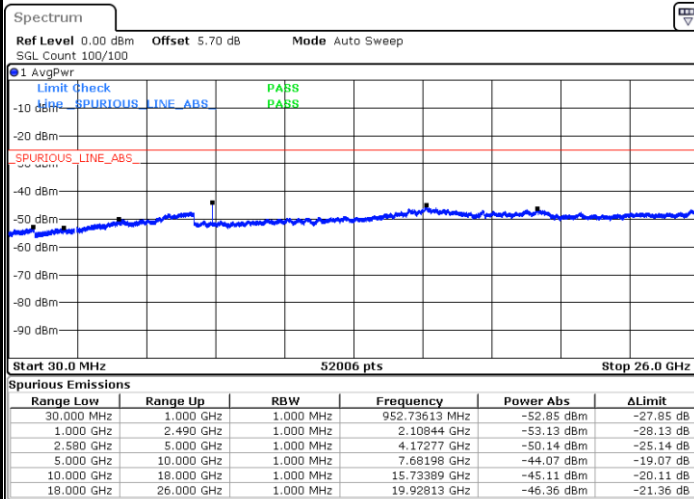
Date: 31 DEC 2019 14:07:41

Middle Channel / 16QAM



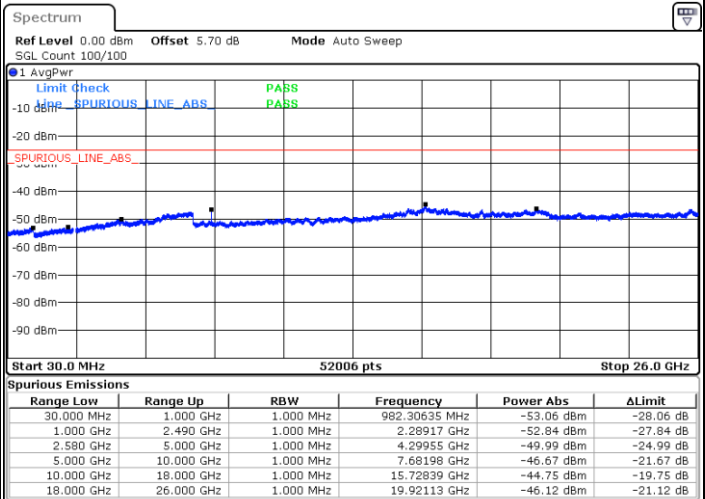
Date: 31 DEC 2019 14:06:47

Highest Channel / QPSK



Date: 31 DEC 2019 14:08:35

Highest Channel / 16QAM

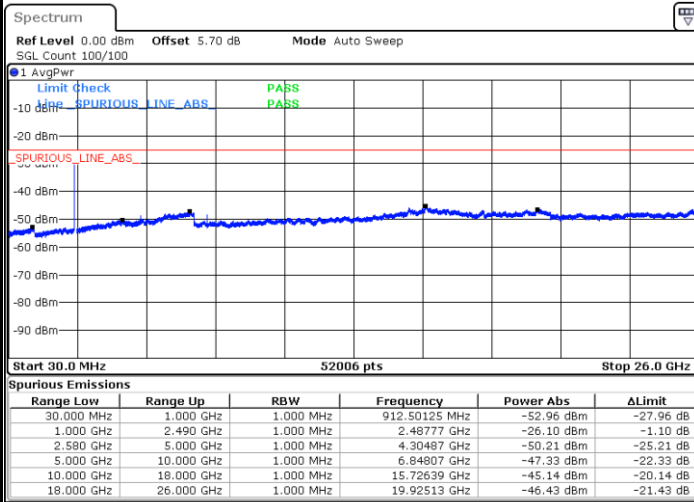


Date: 31 DEC 2019 14:09:29



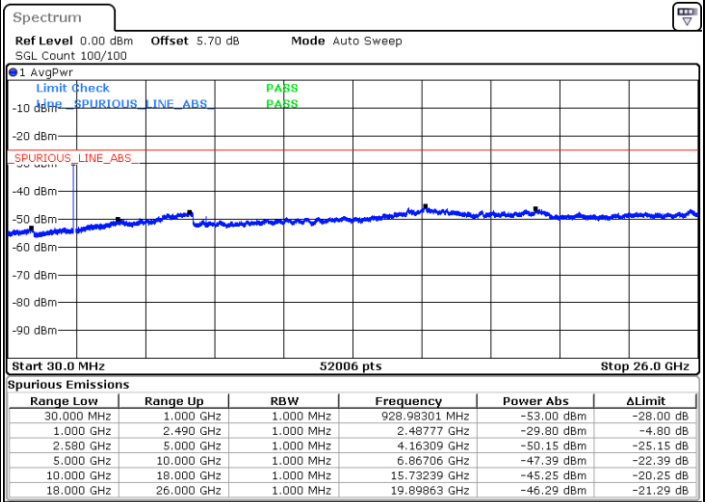
LTE Band 7 / 15MHz

Lowest Channel / QPSK



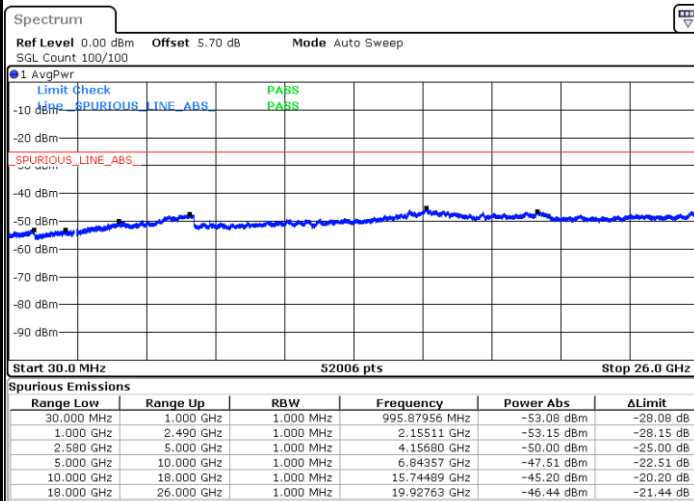
Date: 31 DEC 2019 14:14:46

Lowest Channel / 16QAM



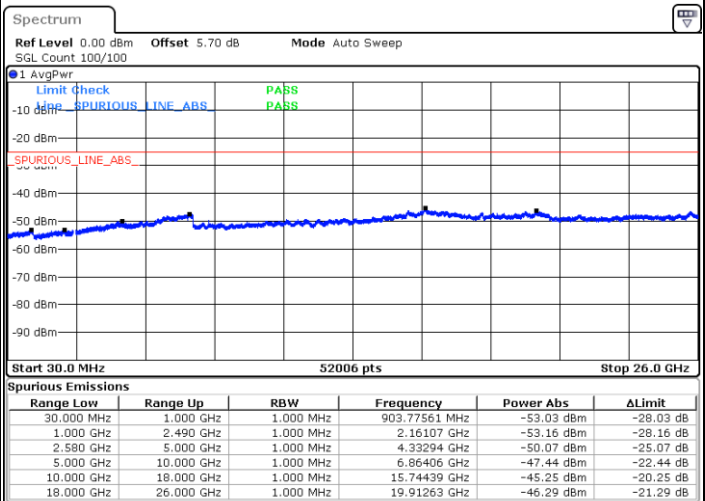
Date: 31 DEC 2019 14:15:40

Middle Channel / QPSK



Date: 31 DEC 2019 14:17:27

Middle Channel / 16QAM

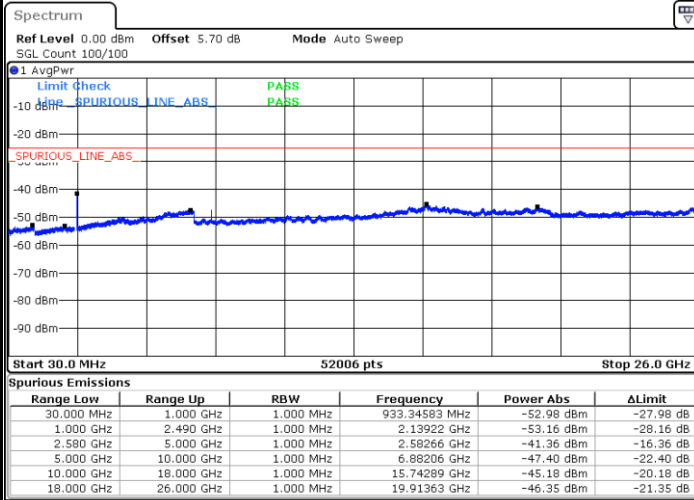


Date: 31 DEC 2019 14:16:34



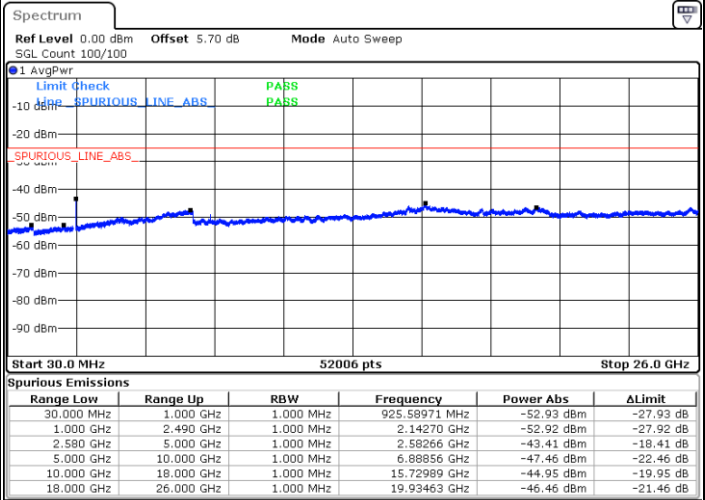
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 31 DEC 2019 14:18:21

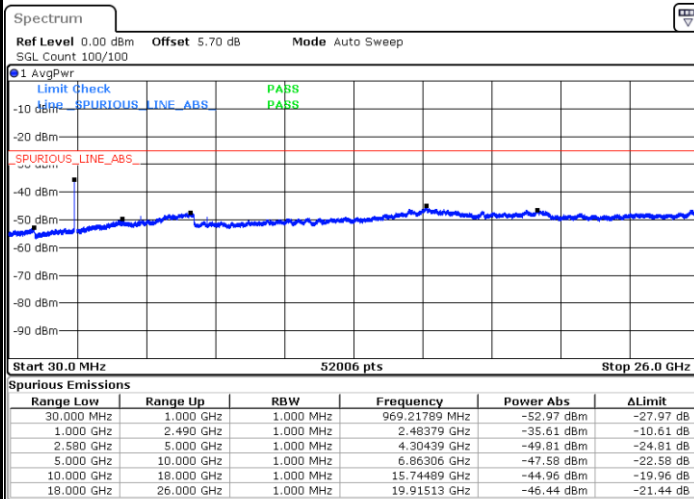
Highest Channel / 16QAM



Date: 31 DEC 2019 14:19:15

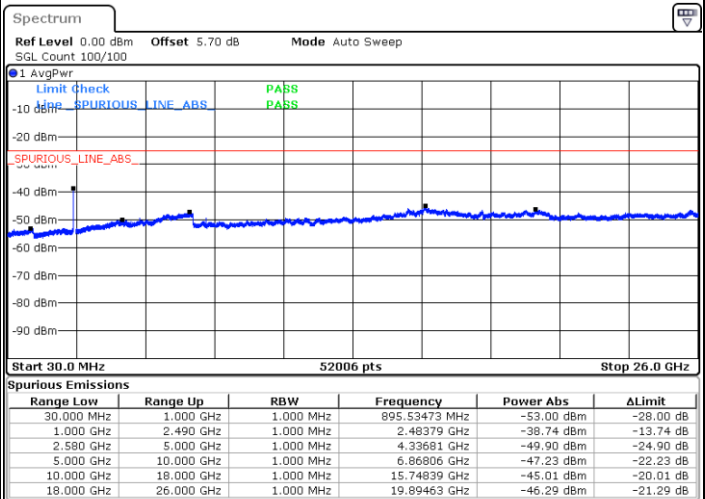
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 31 DEC 2019 14:24:33

Lowest Channel / 16QAM

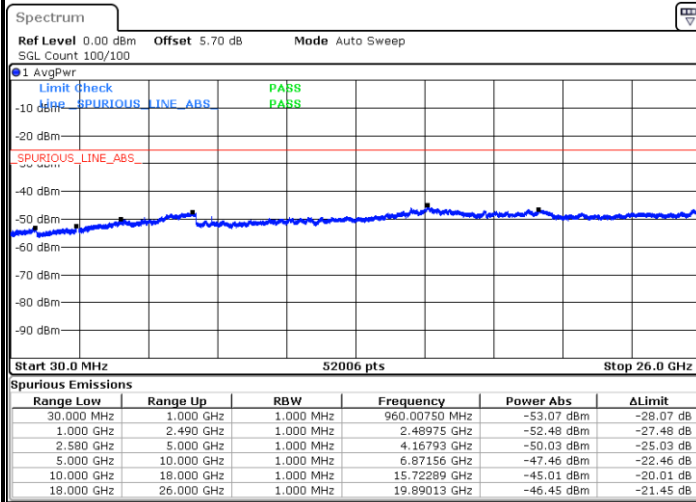


Date: 31 DEC 2019 14:25:27



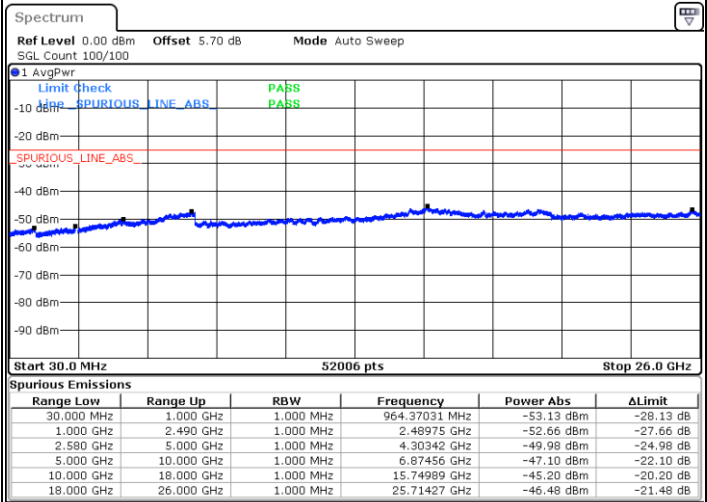
LTE Band 7 / 20MHz

Middle Channel / QPSK



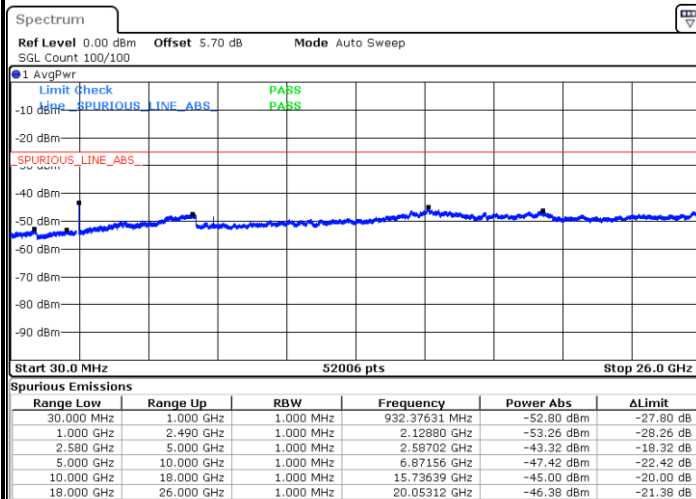
Date: 31 DEC 2019 14:27:14

Middle Channel / 16QAM



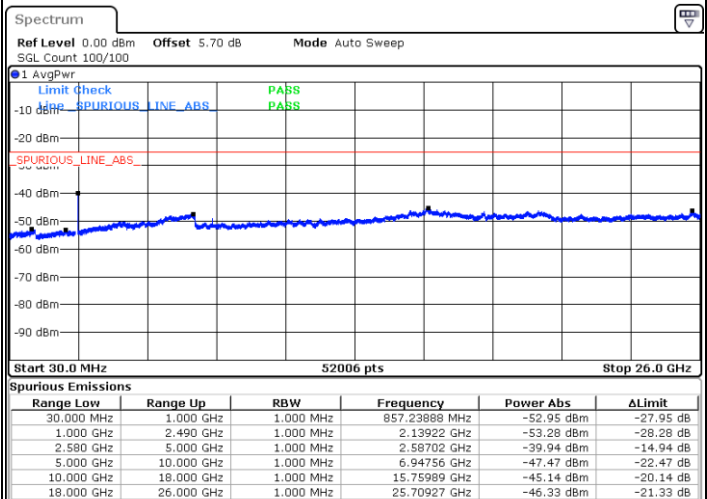
Date: 31 DEC 2019 14:26:21

Highest Channel / QPSK



Date: 31 DEC 2019 14:28:08

Highest Channel / 16QAM



Date: 31 DEC 2019 14:29:02

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =13.2 V. ; Battery End Point (BEP) =10.5 V. ; Maximum Voltage =33.1 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	2.61	4.96	3.59	6.09	
Highest CH					

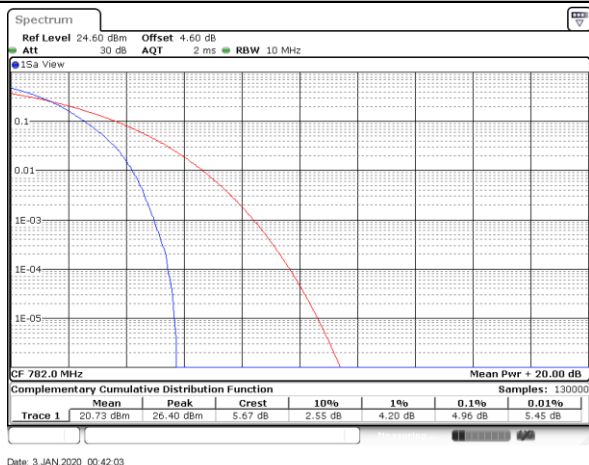


LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB

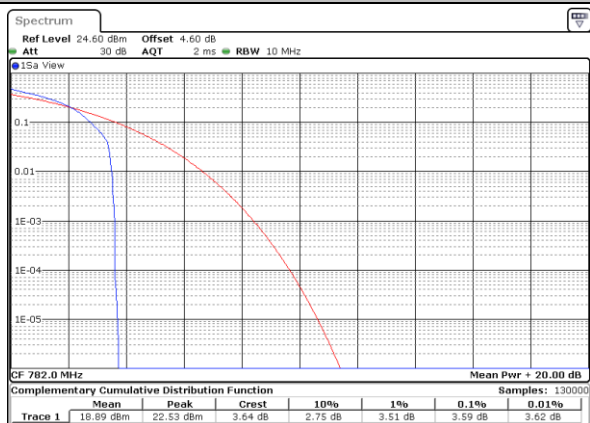


Middle Channel / Full RB

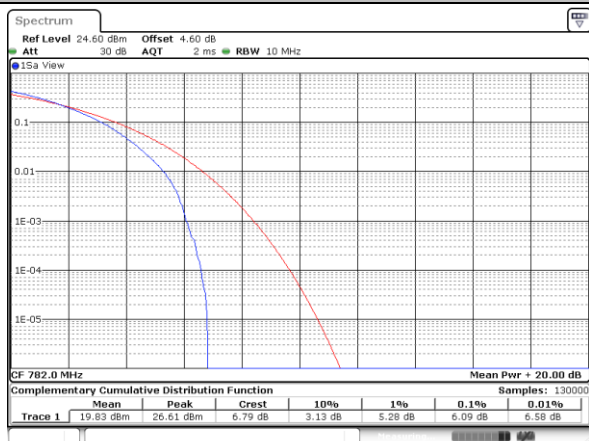


LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Middle Channel / Full RB





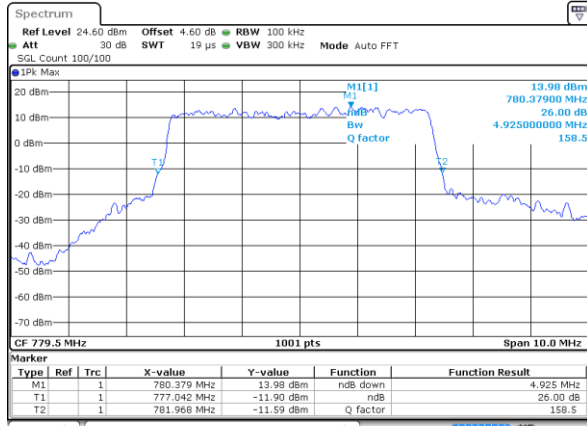
26dB Bandwidth

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					4.925	4.955						
Middle CH					4.905	4.775	9.87	5.674				
Highest CH					4.935	4.945						

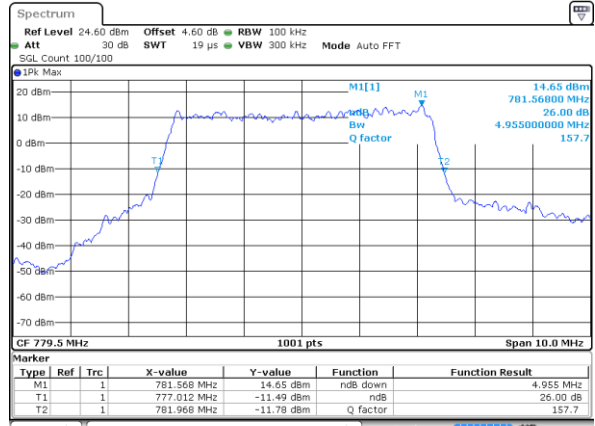


LTE Band 13

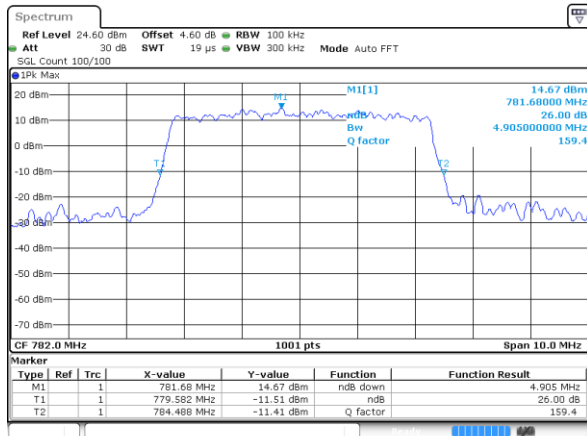
Lowest Channel / 5MHz / QPSK



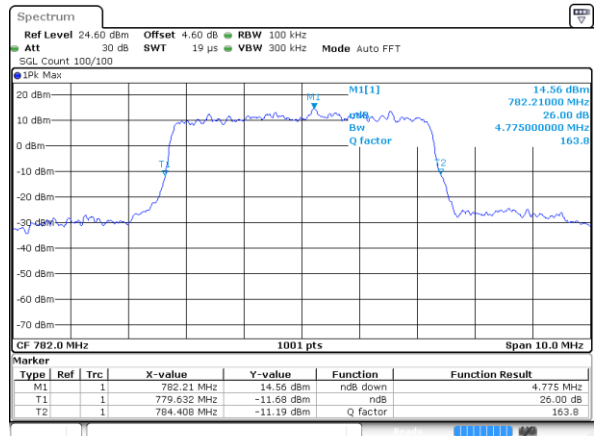
Lowest Channel / 5MHz / 16QAM



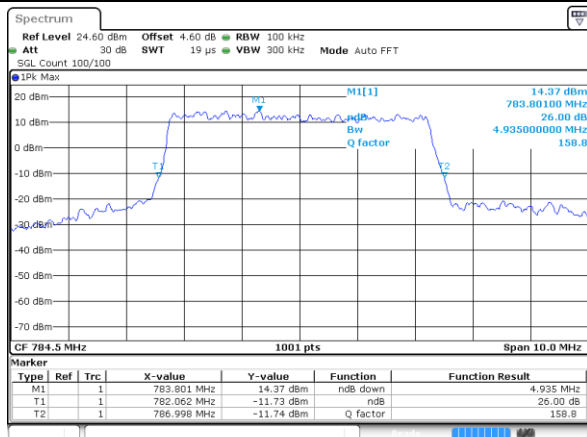
Middle Channel / 5MHz / QPSK



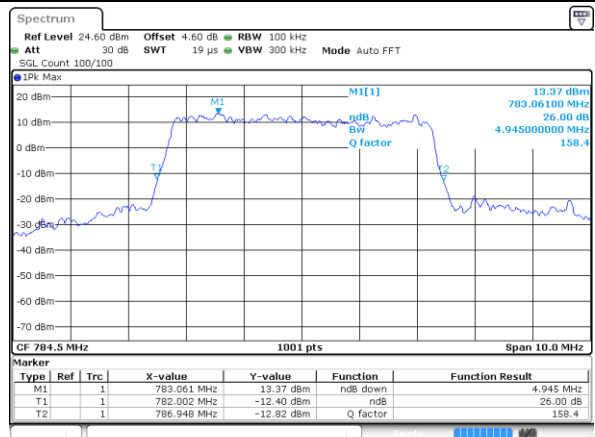
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



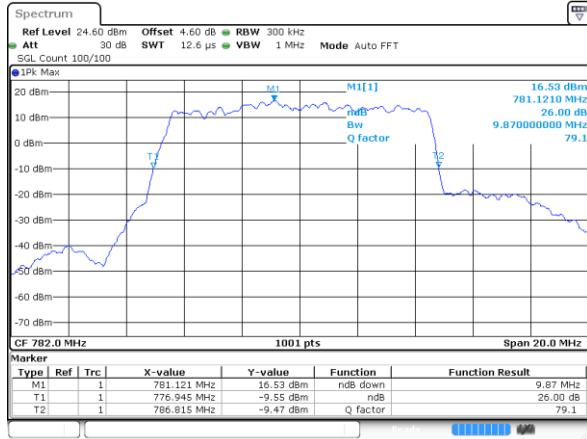
Highest Channel / 5MHz / 16QAM





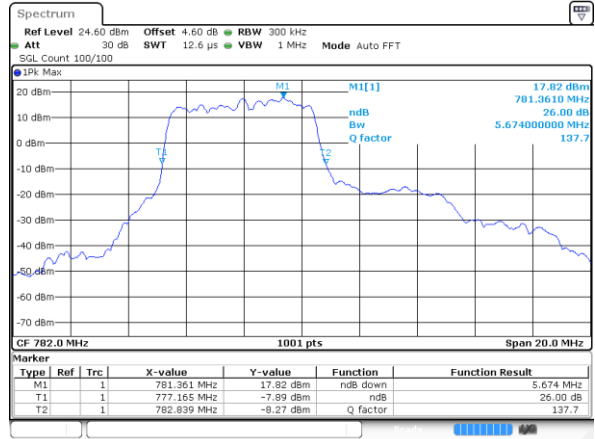
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 3 JAN 2020 00:33:14

Middle Channel / 10MHz / 16QAM



Date: 3 JAN 2020 00:47:43



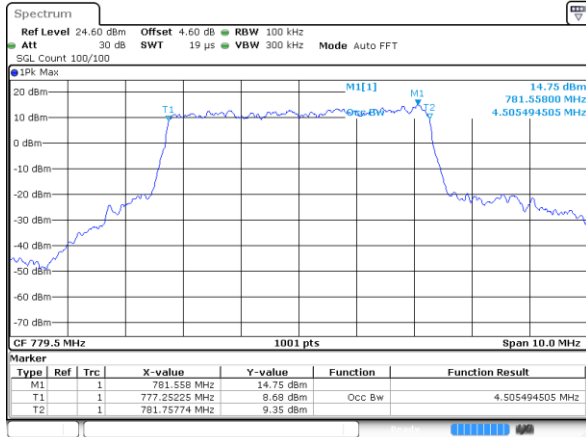
Occupied Bandwidth

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					4.51	4.50						
Middle CH					4.46	4.46	8.97	5.06				
Highest CH					4.50	4.53						

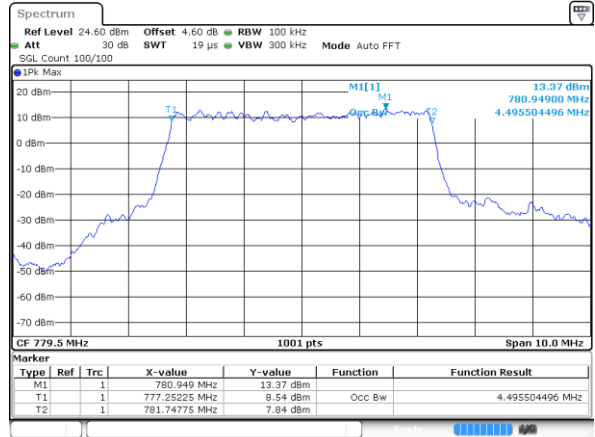


LTE Band 13

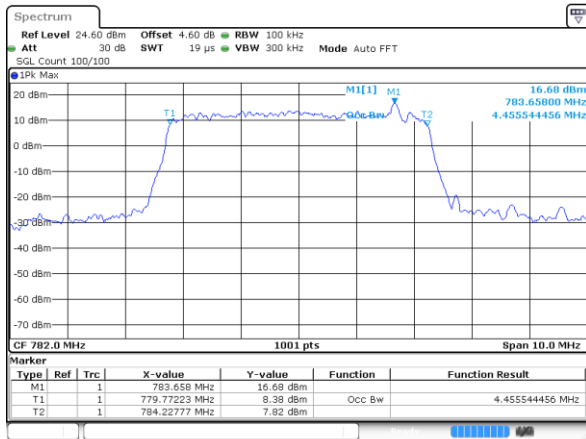
Lowest Channel / 5MHz / QPSK



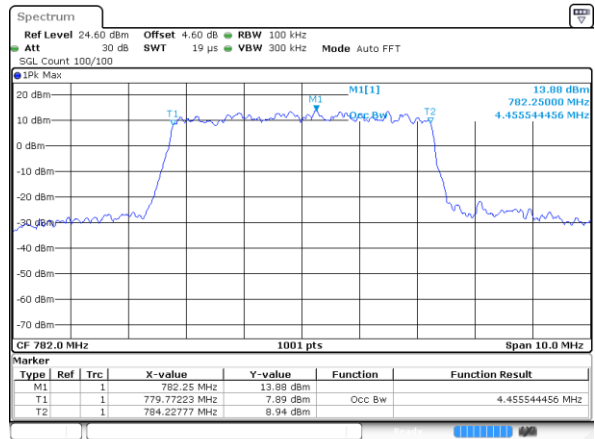
Lowest Channel / 5MHz / 16QAM



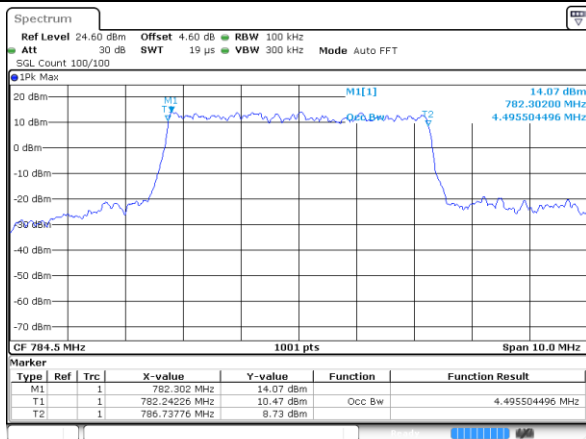
Middle Channel / 5MHz / QPSK



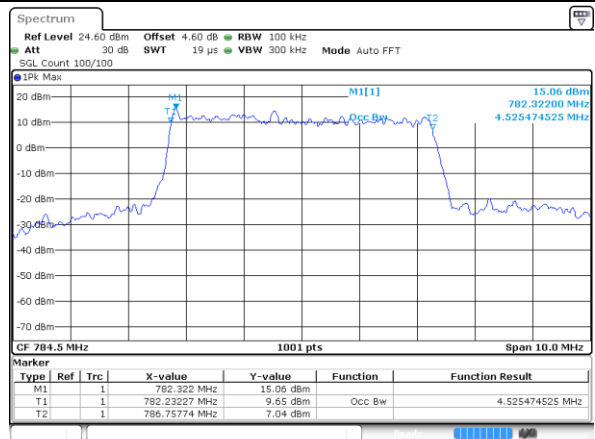
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



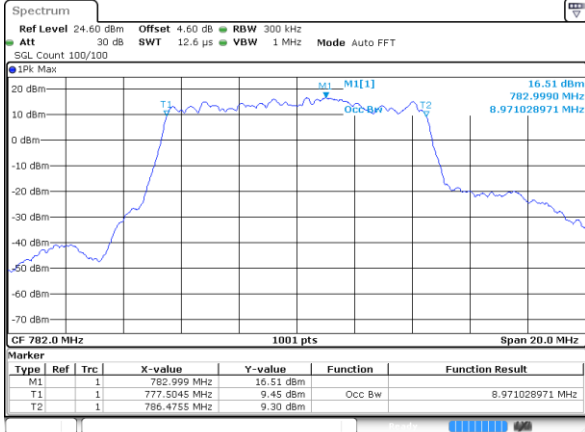
Highest Channel / 5MHz / 16QAM





LTE Band 13

Middle Channel / 10MHz / QPSK

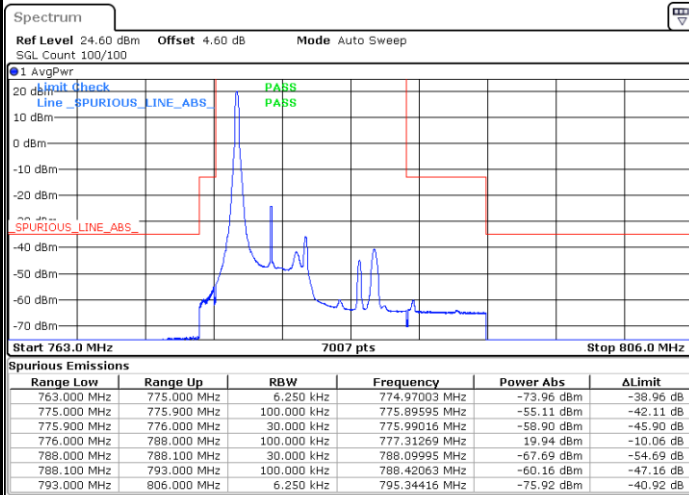
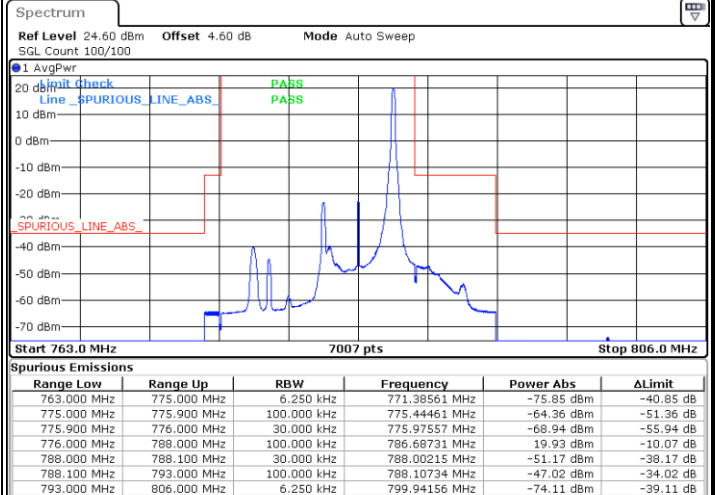
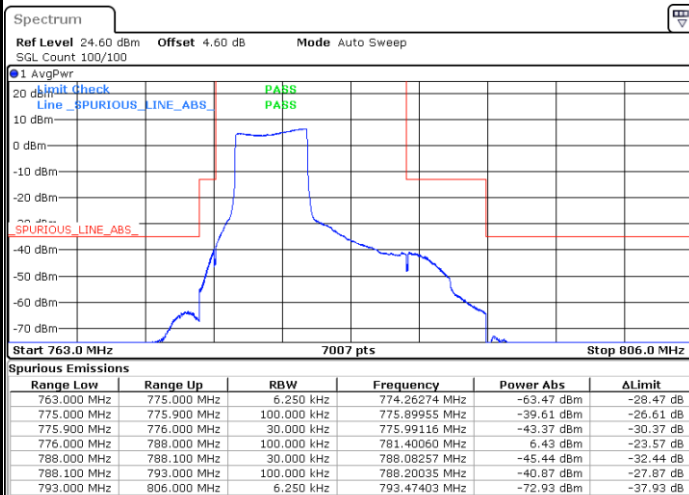
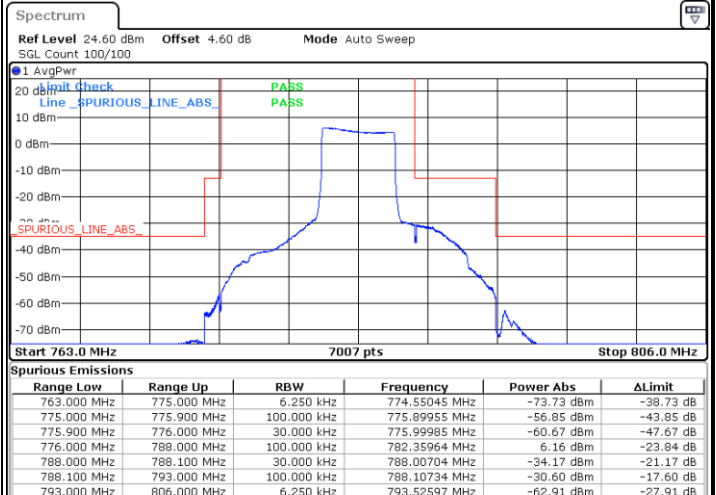


Date: 3 JAN 2020 00:33:24

Middle Channel / 10MHz / 16QAM



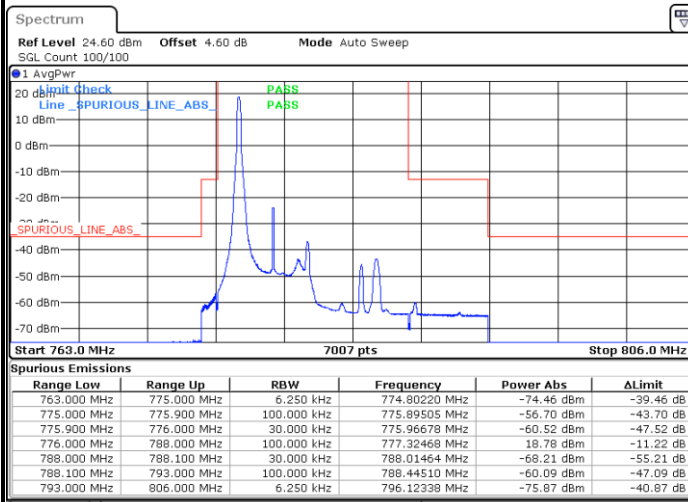
Date: 3 JAN 2020 00:47:50

**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



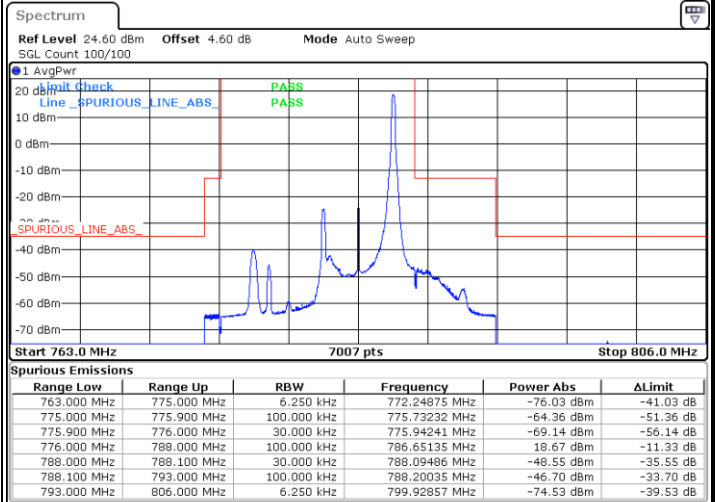
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



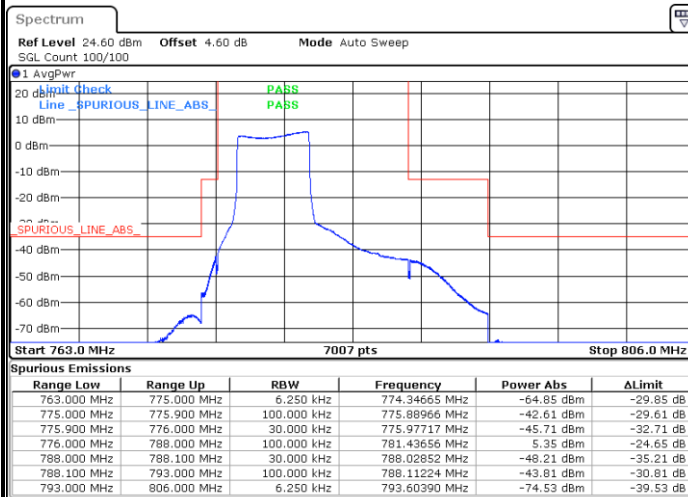
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Highest Band Edge / 1 RB



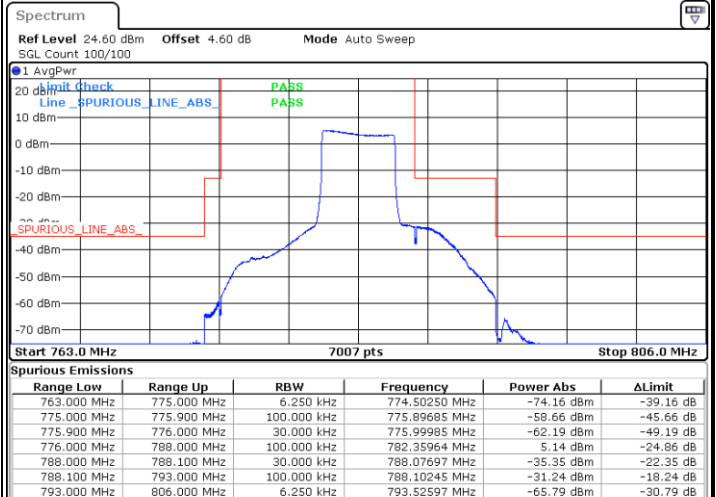
Date: 3.JAN.2020 00:29:26

Lowest Band Edge / Full RB



Date: 3.JAN.2020 00:13:08

Highest Band Edge / Full RB

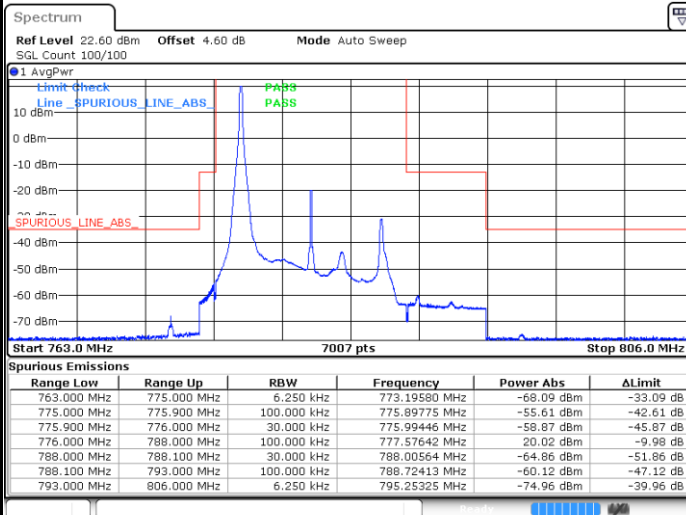


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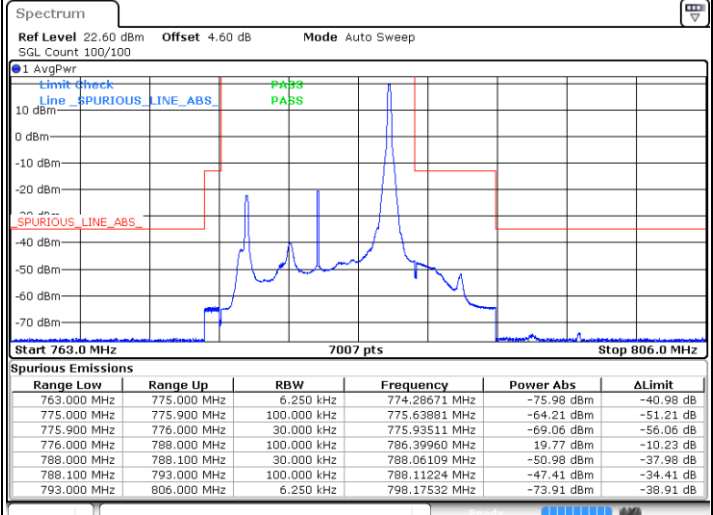


LTE Band 13 / 10MHz / QPSK

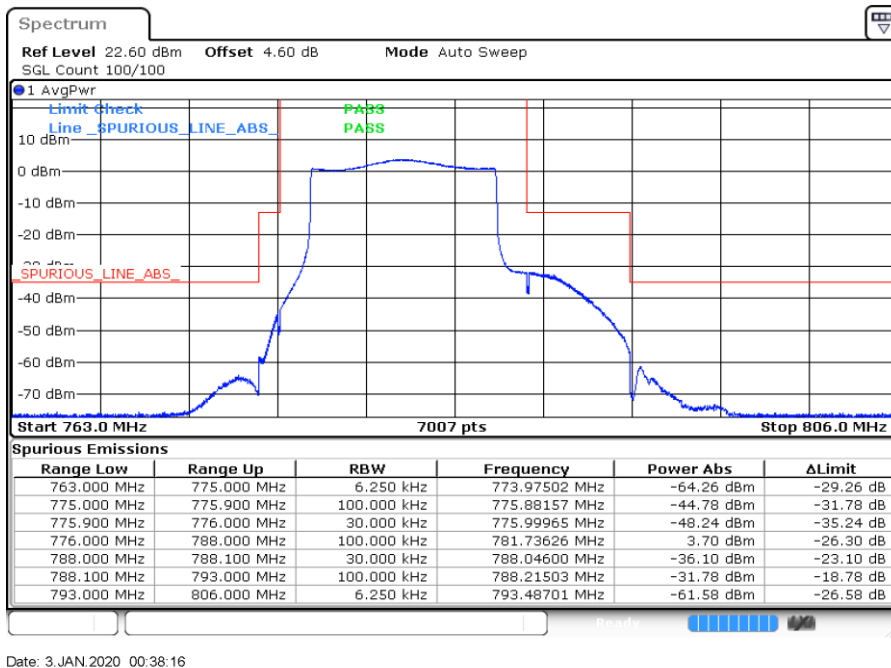
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



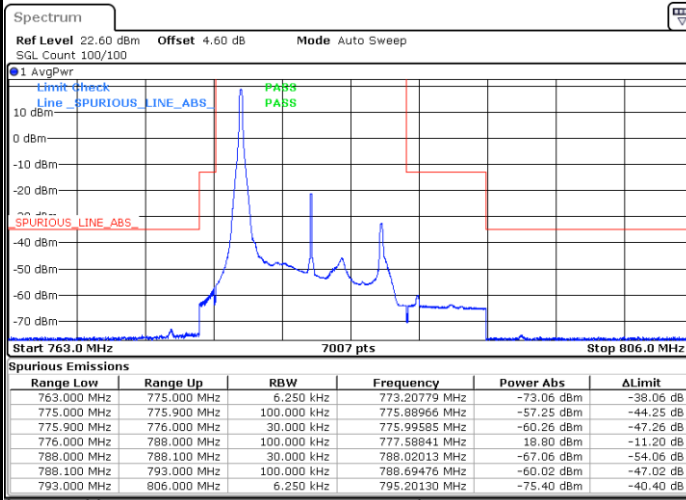
Band Edge / Full RB



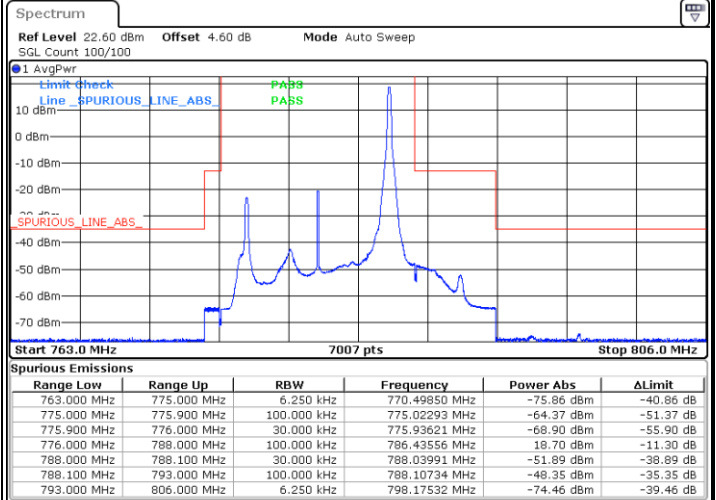


LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

