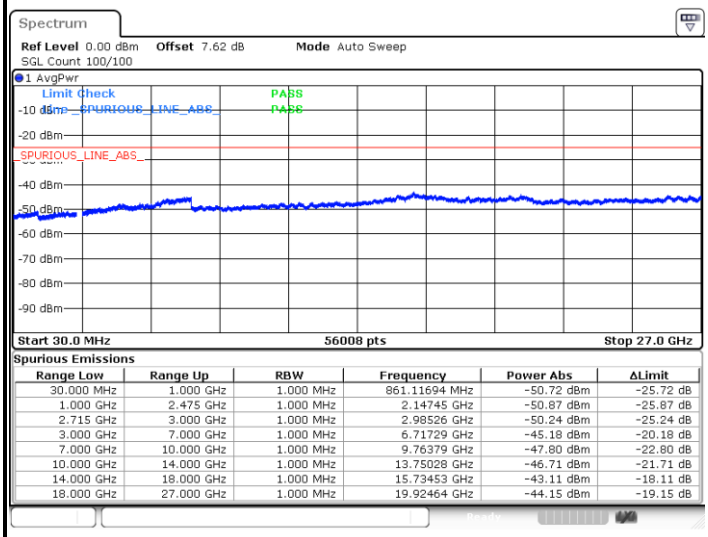
LTE Band 41 / 20MHz

Lowest Channel / QPSK

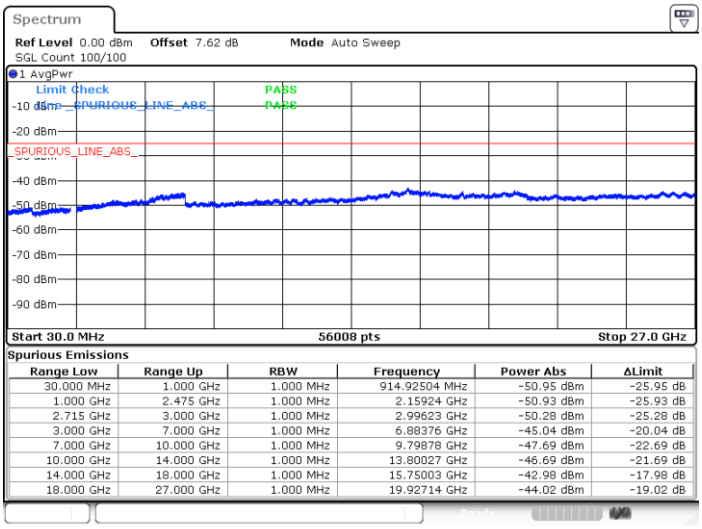


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	861.11694 MHz	-50.72 dBm	-25.72 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.14745 GHz	-50.87 dBm	-25.87 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.98526 GHz	-50.24 dBm	-25.24 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.71729 GHz	-45.18 dBm	-20.18 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.76379 GHz	-47.80 dBm	-22.80 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.75028 GHz	-46.71 dBm	-21.71 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73453 GHz	-43.11 dBm	-18.11 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92464 GHz	-44.15 dBm	-19.15 dB

Date: 1.JAN.2021 09:02:33

Middle Channel / QPSK

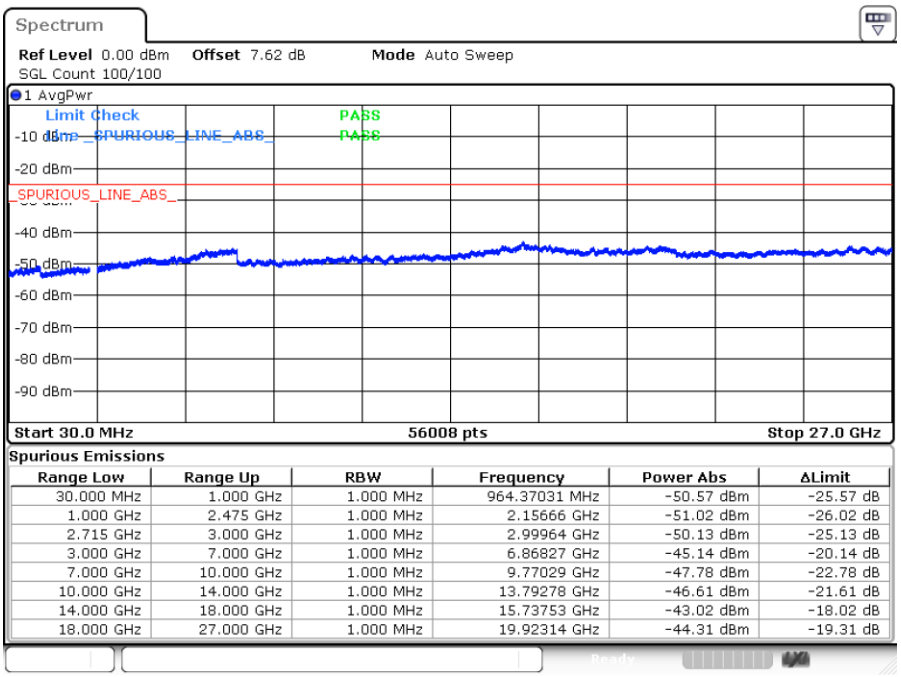


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	914.92504 MHz	-50.95 dBm	-25.95 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.15924 GHz	-50.93 dBm	-25.93 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.99623 GHz	-50.28 dBm	-25.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88376 GHz	-45.04 dBm	-20.04 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.79878 GHz	-47.69 dBm	-22.69 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.80027 GHz	-46.69 dBm	-21.69 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.75003 GHz	-42.98 dBm	-17.98 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92714 GHz	-44.02 dBm	-19.02 dB

Date: 1.JAN.2021 09:05:13

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	964.37031 MHz	-50.57 dBm	-25.57 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.15666 GHz	-51.02 dBm	-26.02 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.99964 GHz	-50.13 dBm	-25.13 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86827 GHz	-45.14 dBm	-20.14 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.77029 GHz	-47.78 dBm	-22.78 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.79278 GHz	-46.61 dBm	-21.61 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73753 GHz	-43.02 dBm	-18.02 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92314 GHz	-44.31 dBm	-19.31 dB

Date: 1.JAN.2021 09:06:08

Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.87 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 7C

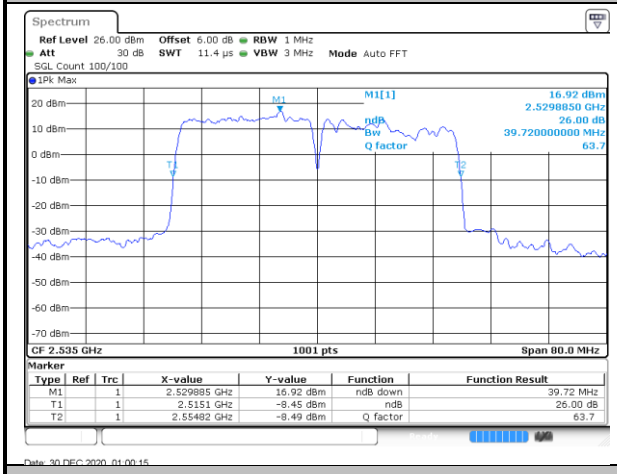
26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)	
	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.72	39.88

LTE Band 7C

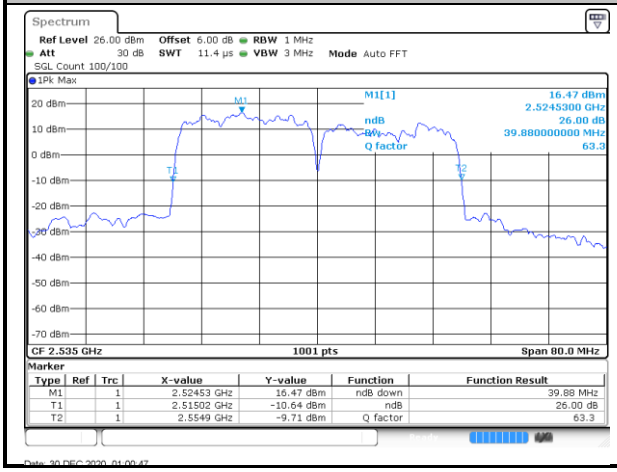
QPSK

Middle Channel / 20MHz+20MHz



16QAM

Middle Channel / 20MHz+20MHz



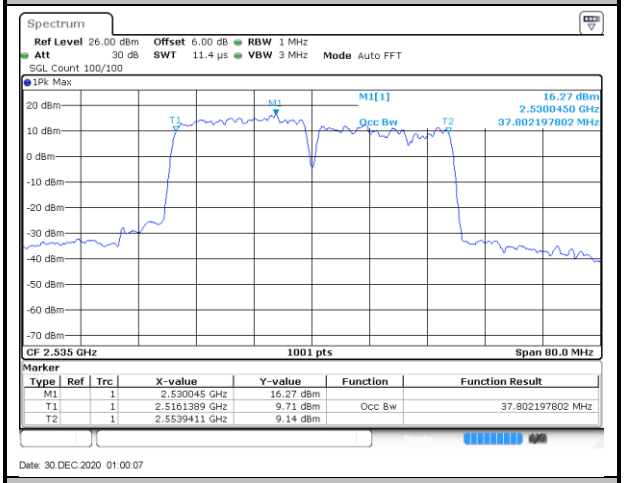
Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)	
	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.80	37.56

LTE Band 7C

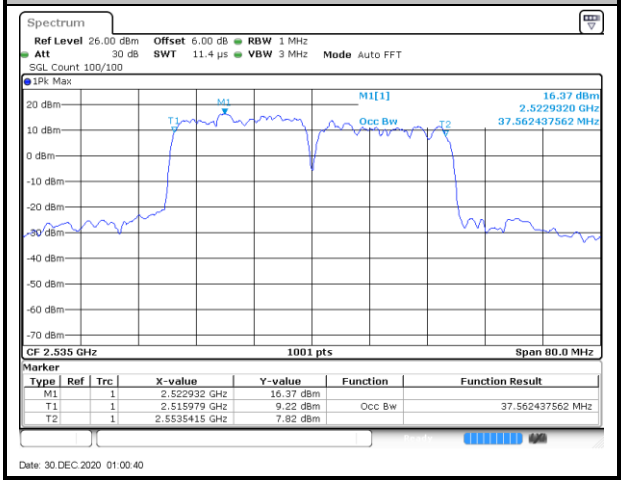
QPSK

Middle Channel / 20MHz+20MHz



16QAM

Middle Channel / 20MHz+20MHz

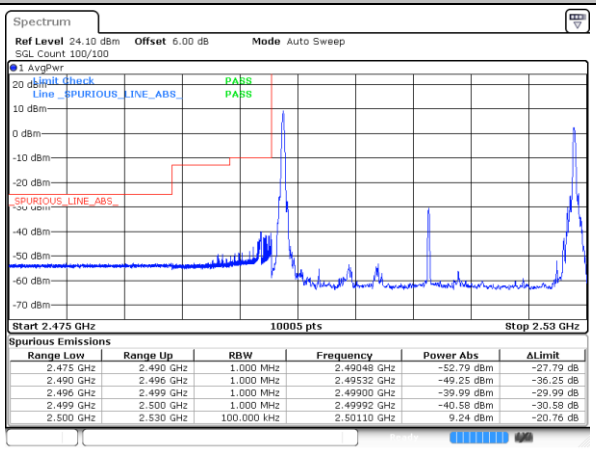


Conducted Band Edge

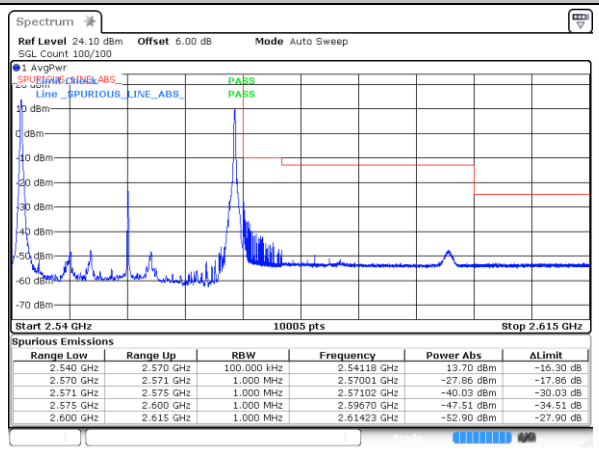
LTE Band 7C / 10MHz+20MHz

QPSK

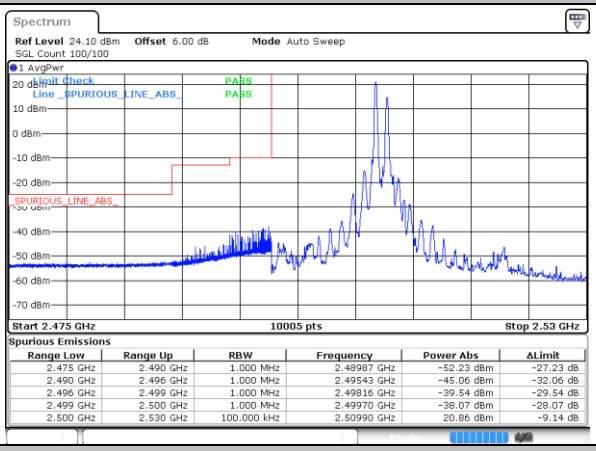
Lowest Band Edge / 1RB0 and 1RB74



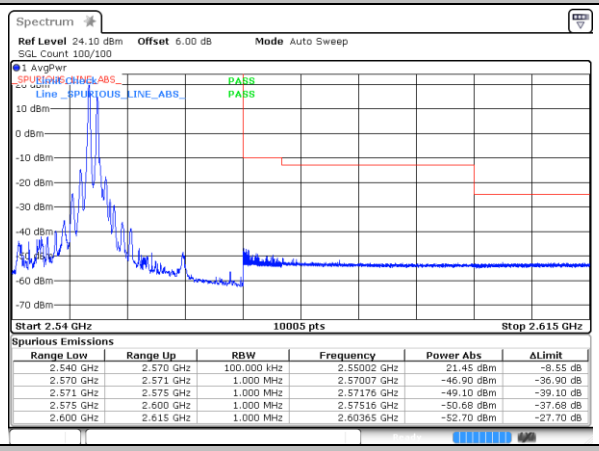
Highest Band Edge / 1RB0 and 1RB74



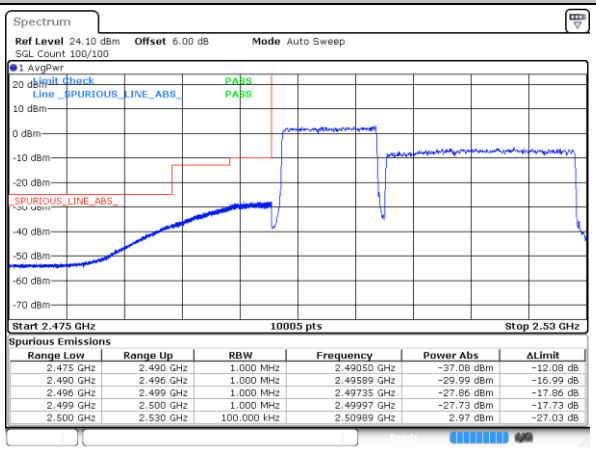
Lowest Band Edge / 1RB74 and 1RB0



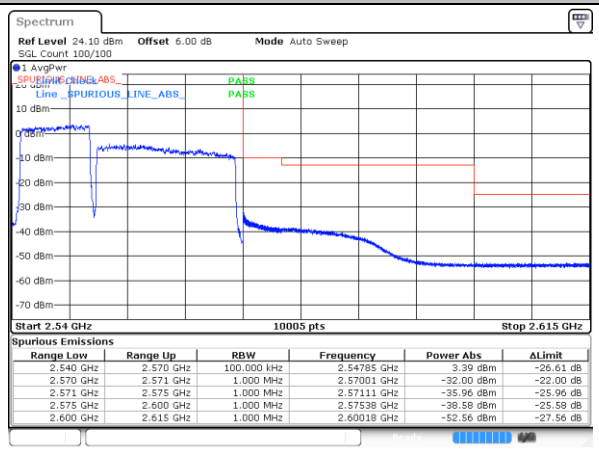
Highest Band Edge / 1RB74 and 1RB0

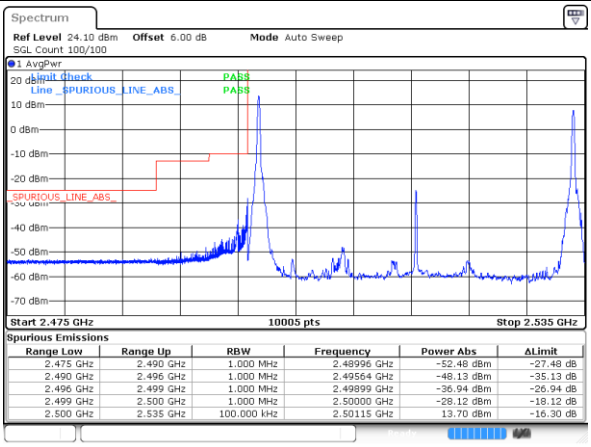
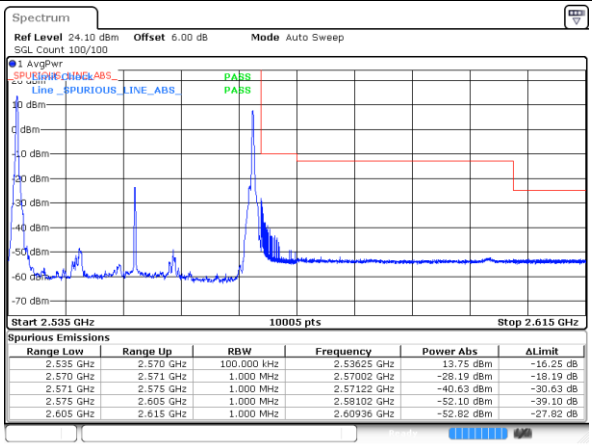
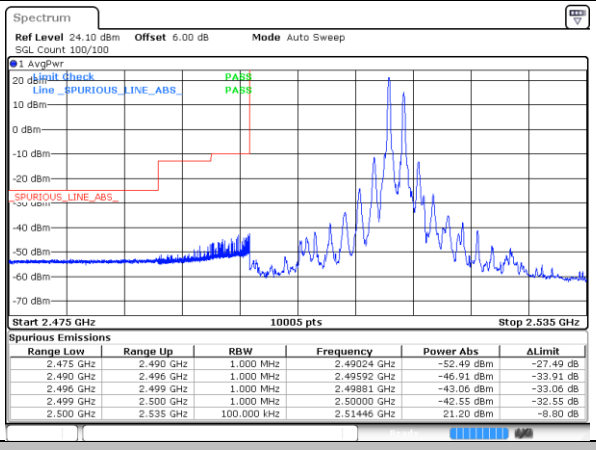
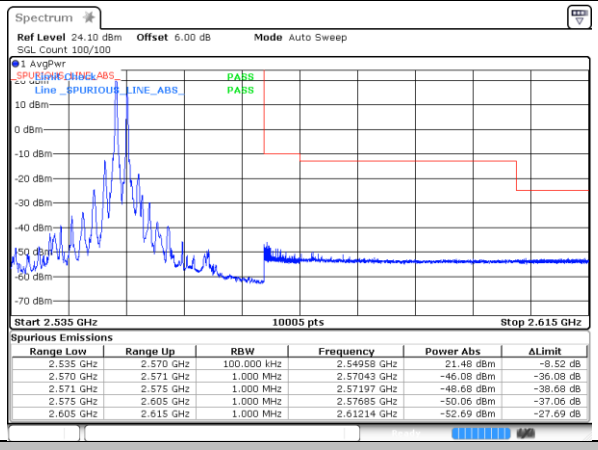
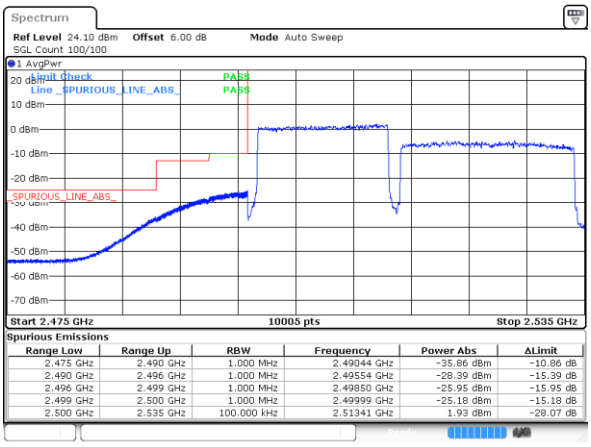
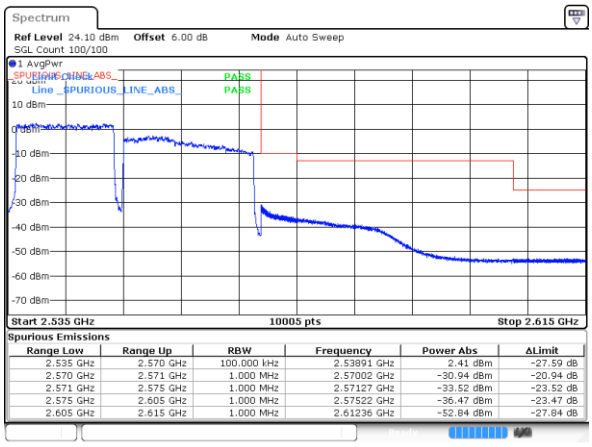


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

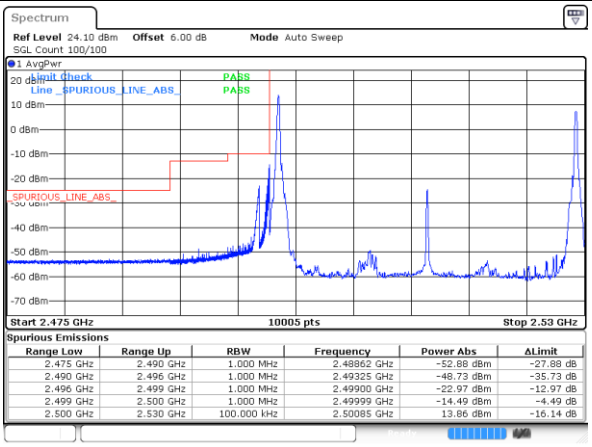


LTE Band 7C / 15MHz+20MHz	
QPSK	
Lowest Band Edge / 1RB0 and 1RB74	Highest Band Edge / 1RB0 and 1RB74
	
Lowest Band Edge / 1RB74 and 1RB0	Highest Band Edge / 1RB74 and 1RB0
	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

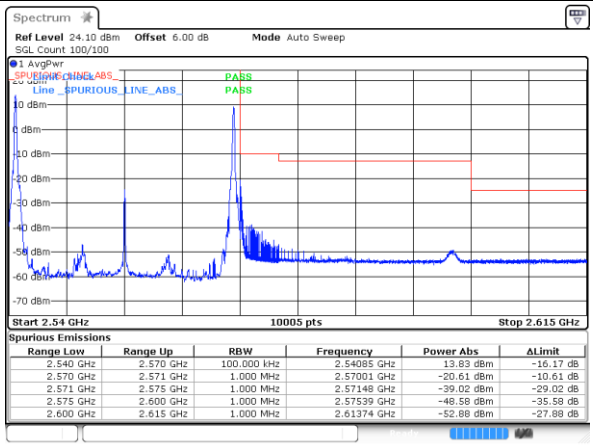
LTE Band 7C / 15MHz+15MHz

QPSK

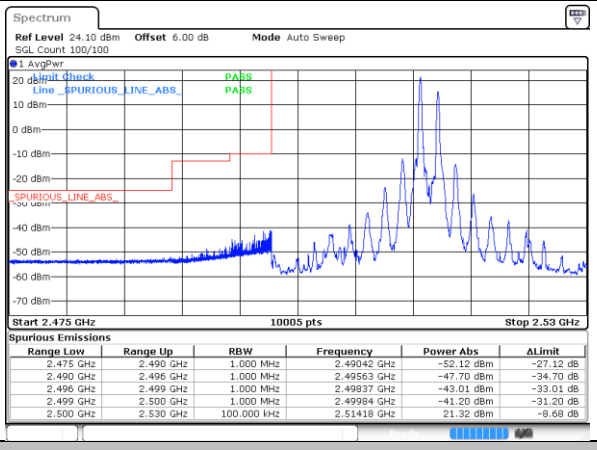
Lowest Band Edge / 1RB0 and 1RB74



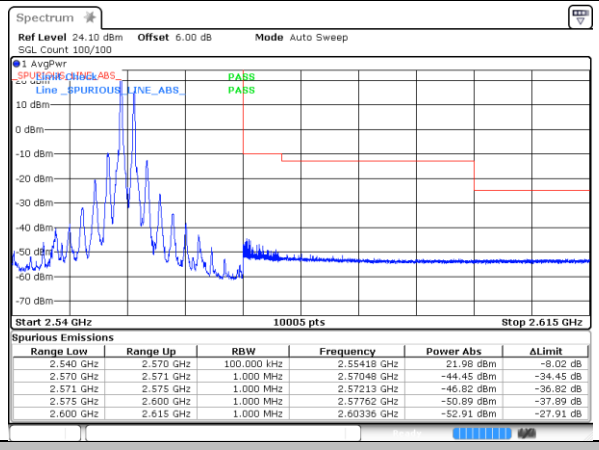
Highest Band Edge / 1RB0 and 1RB74



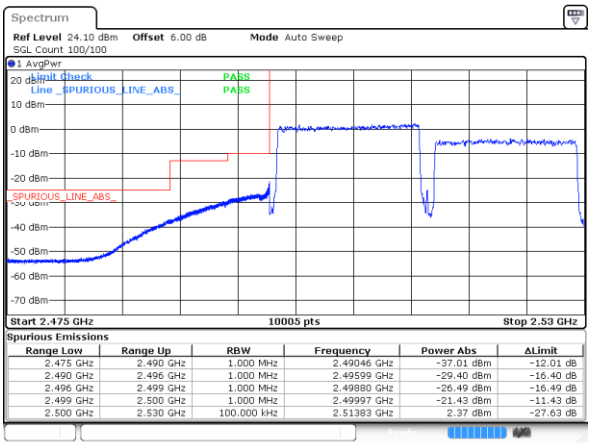
Lowest Band Edge / 1RB74 and 1RB0



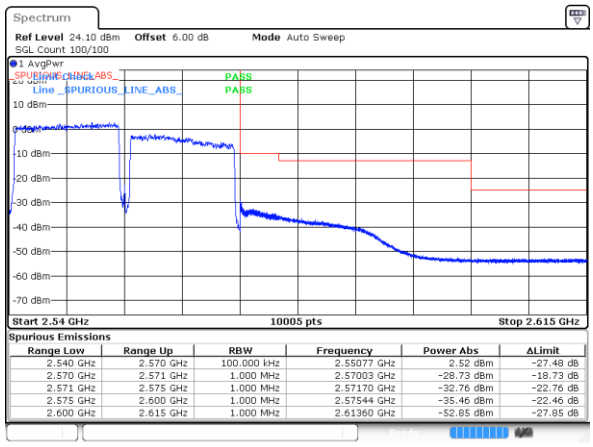
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



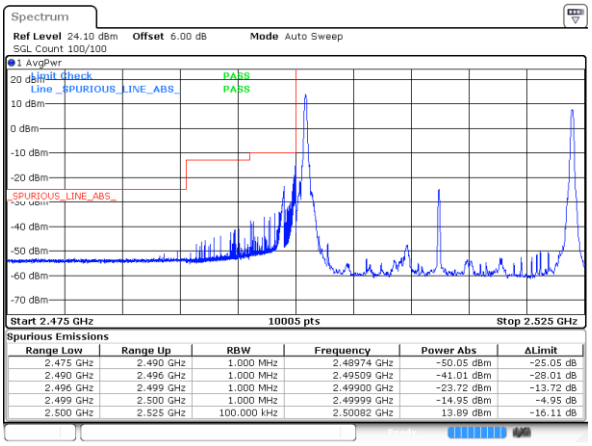
Highest Band Edge / Full RB



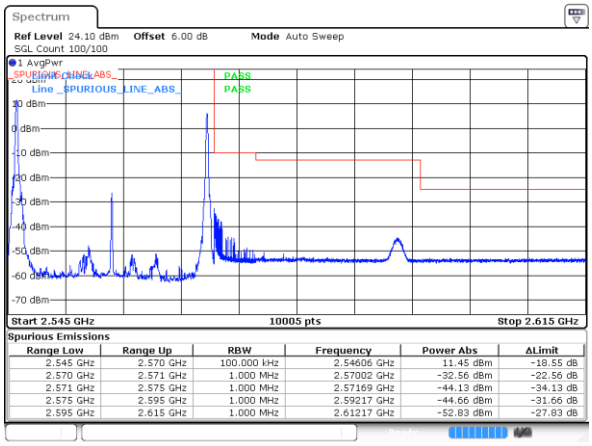
LTE Band 7C / 15MHz+10MHz

QPSK

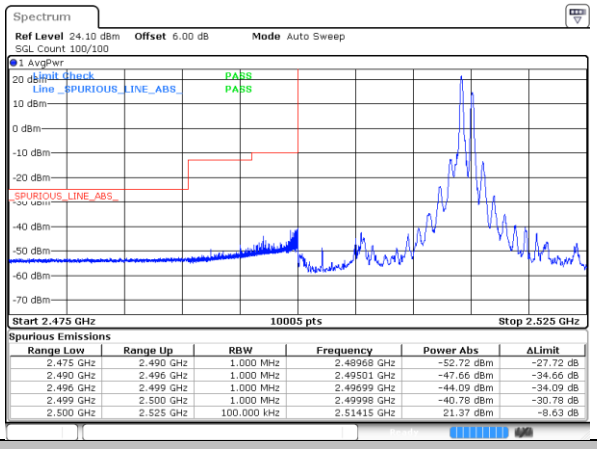
Lowest Band Edge / 1RB0 and 1RB74



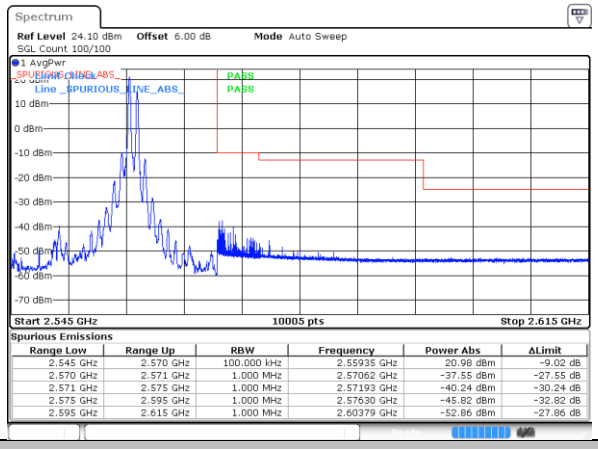
Highest Band Edge / 1RB0 and 1RB74



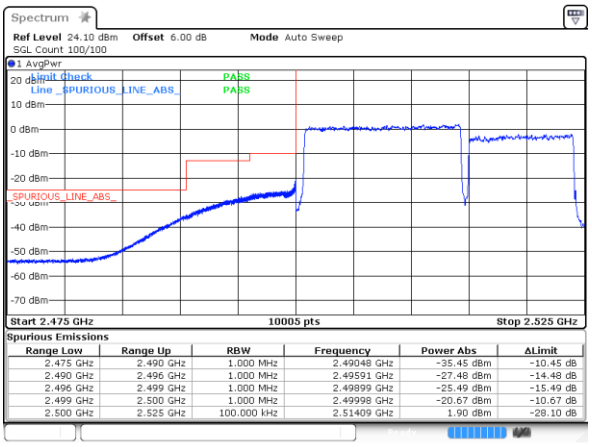
Lowest Band Edge / 1RB74 and 1RB0



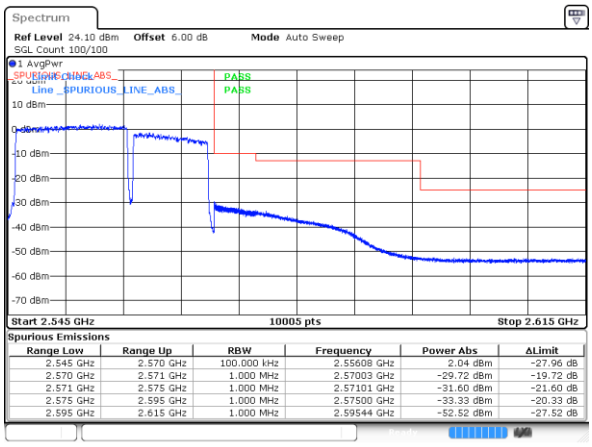
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



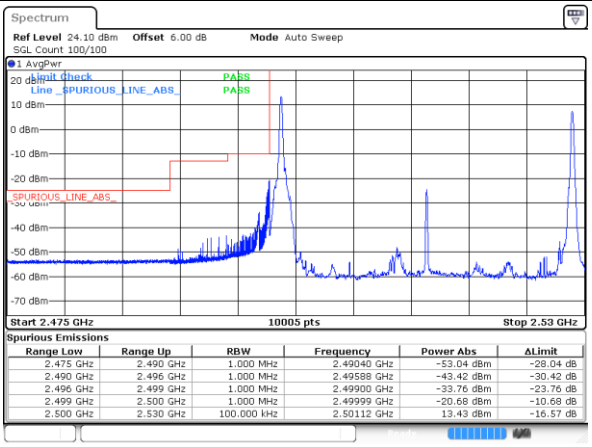
Highest Band Edge / Full RB



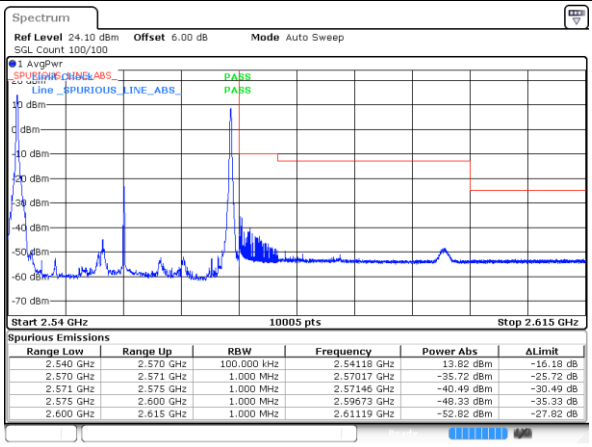
LTE Band 7C / 20MHz+10MHz

QPSK

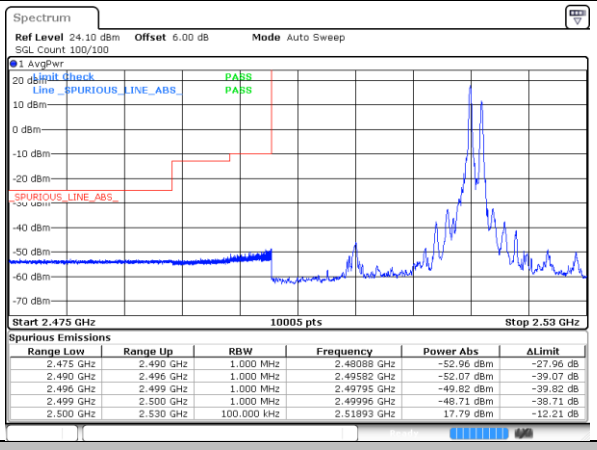
Lowest Band Edge / 1RB0 and 1RB99



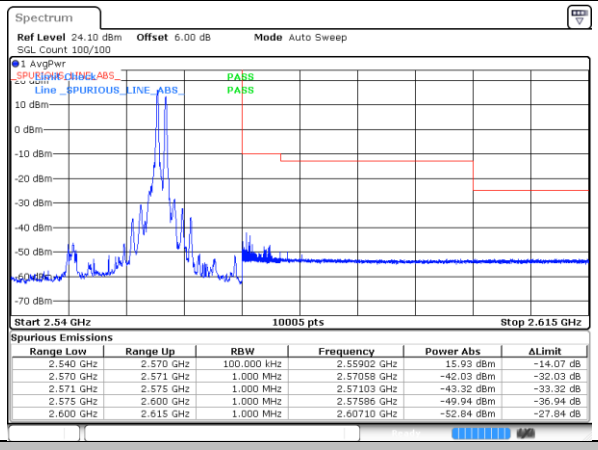
Highest Band Edge / 1RB0 and 1RB99



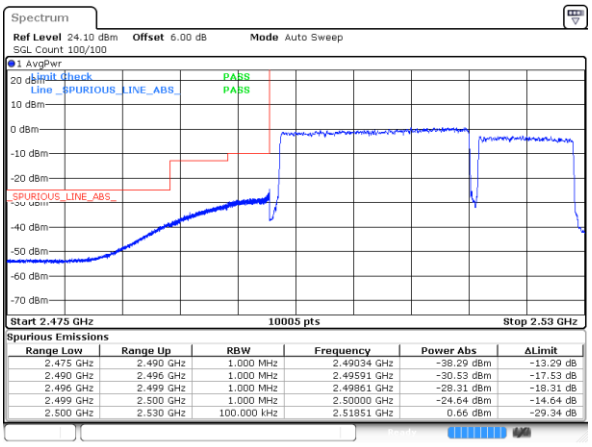
Lowest Band Edge / 1RB99 and 1RB0



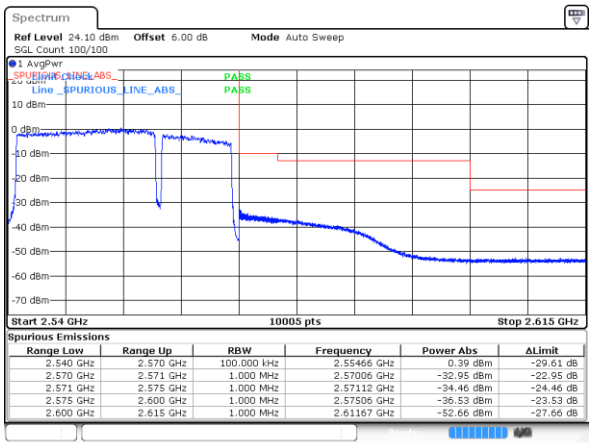
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



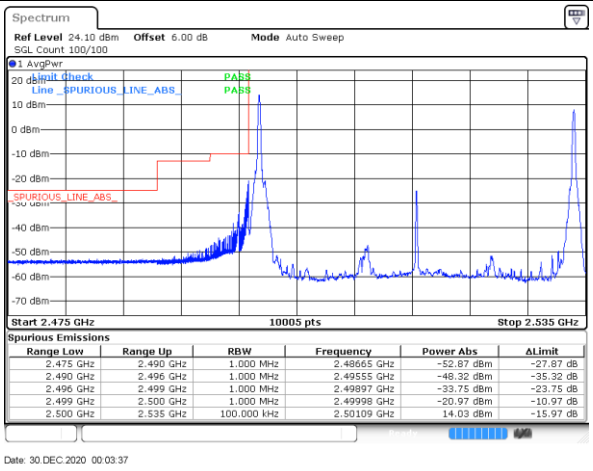
Highest Band Edge / Full RB



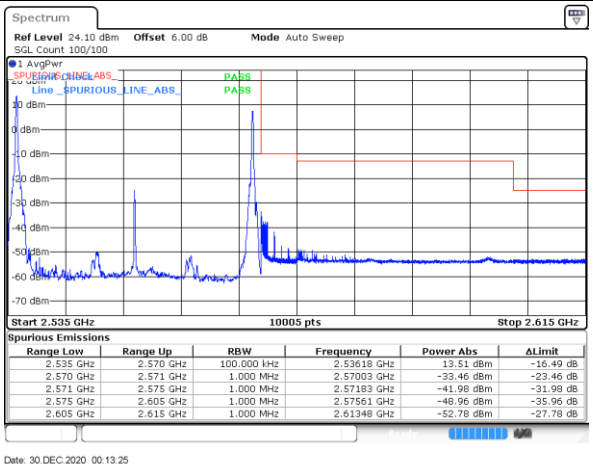
LTE Band 7C / 20MHz+15MHz

QPSK

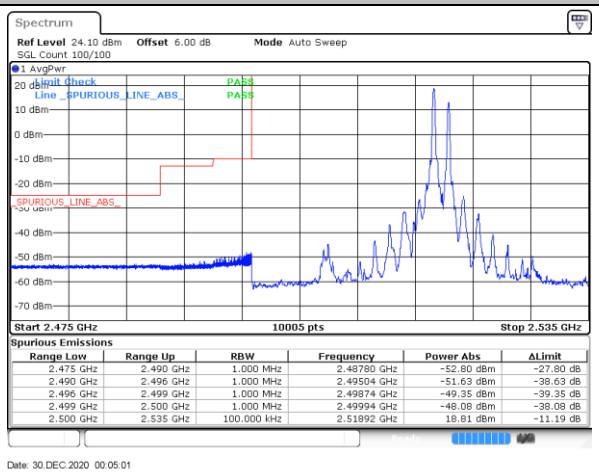
Lowest Band Edge / 1RB0 and 1RB99



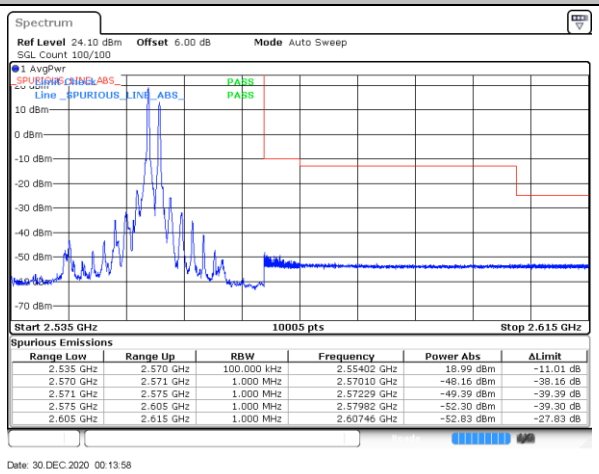
Highest Band Edge / 1RB0 and 1RB99



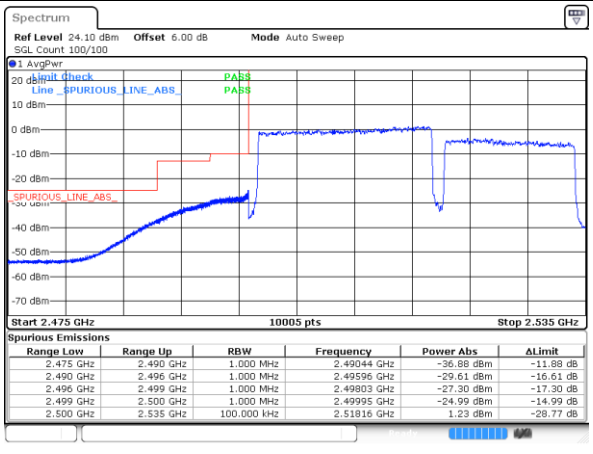
Lowest Band Edge / 1RB99 and 1RB0



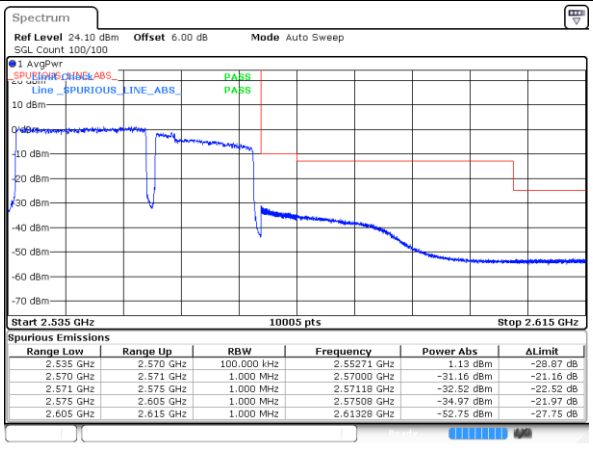
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



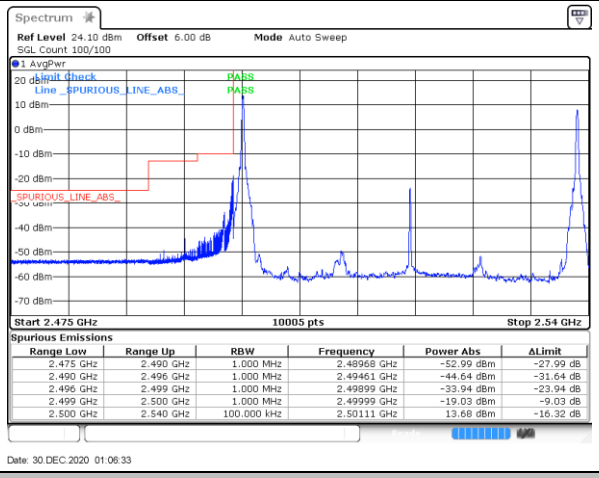
Highest Band Edge / Full RB



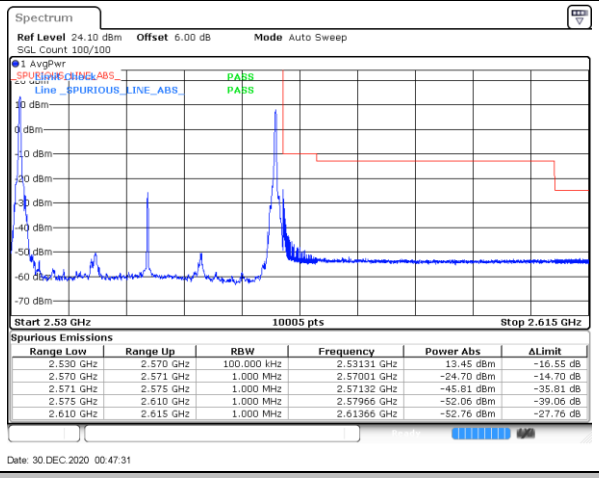
LTE Band 7C / 20MHz+20MHz

QPSK

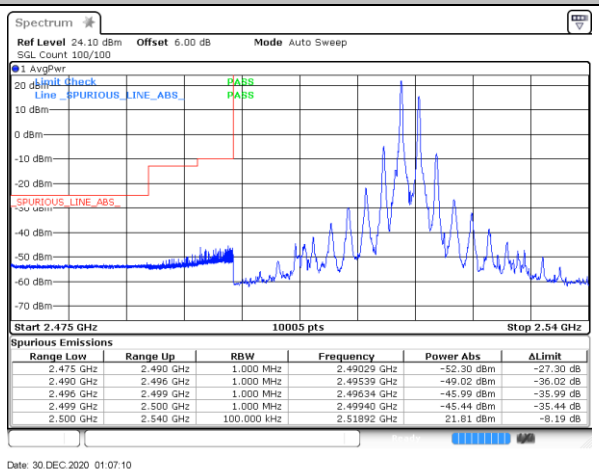
Lowest Band Edge / 1RB0 and 1RB99



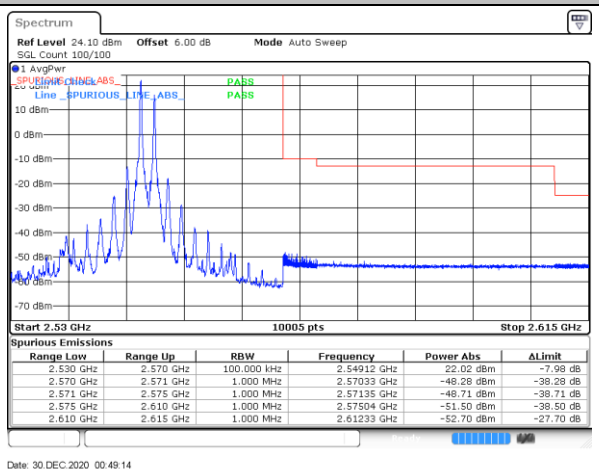
Highest Band Edge / 1RB0 and 1RB99



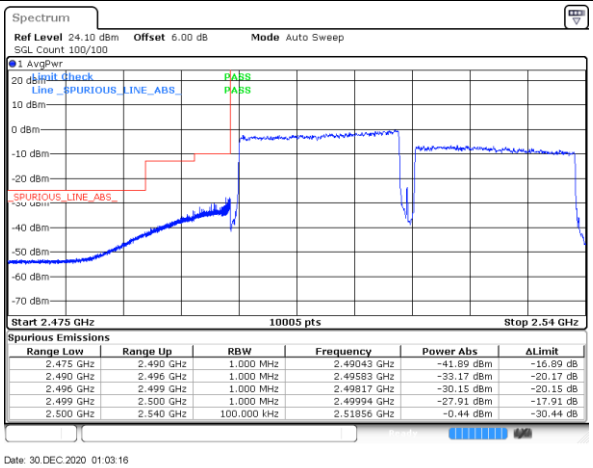
Lowest Band Edge / 1RB99 and 1RB0



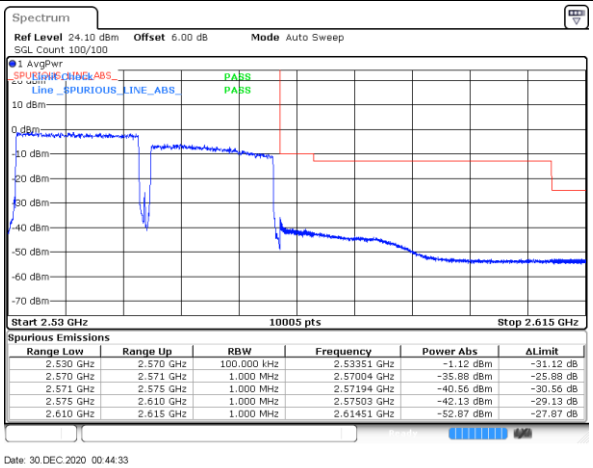
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



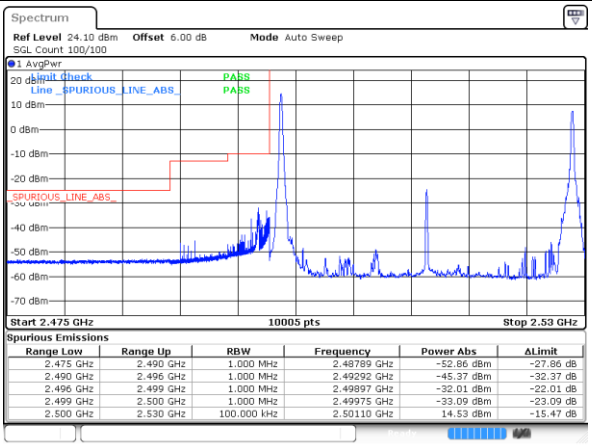
Highest Band Edge / Full RB



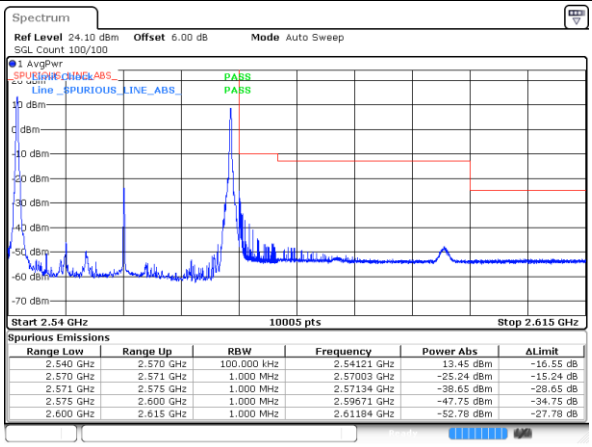
LTE Band 7C / 10MHz+20MHz

16QAM

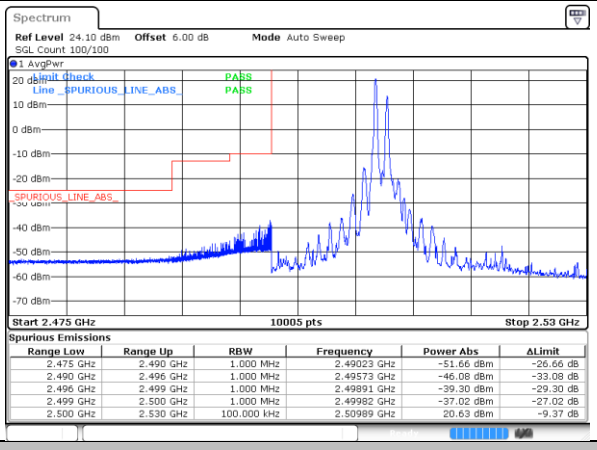
Lowest Band Edge / 1RB0 and 1RB74



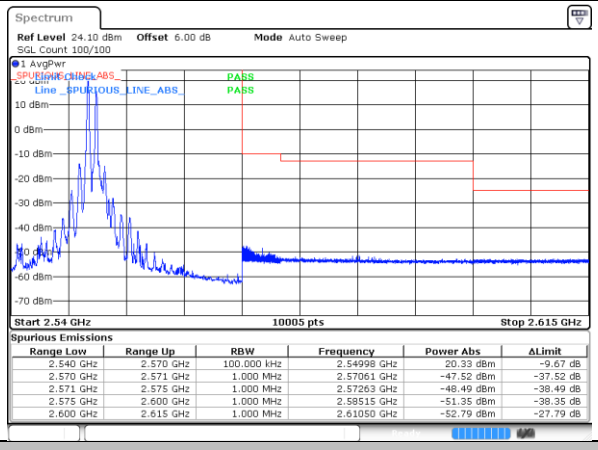
Highest Band Edge / 1RB0 and 1RB74



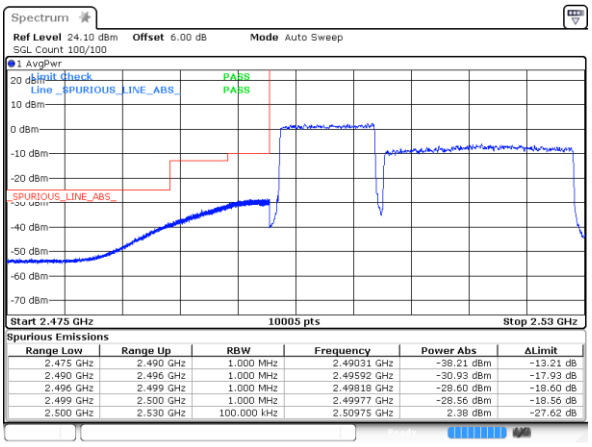
Lowest Band Edge / 1RB74 and 1RB0



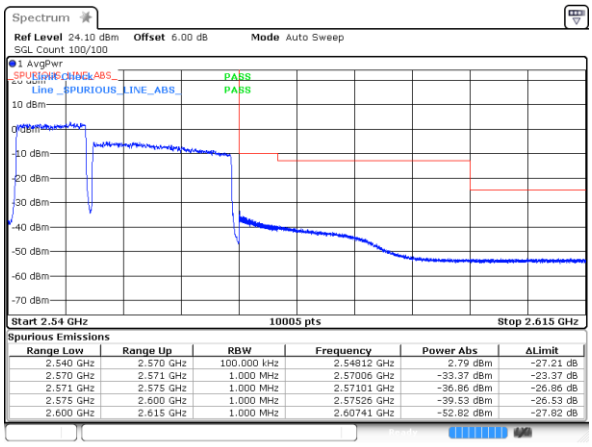
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



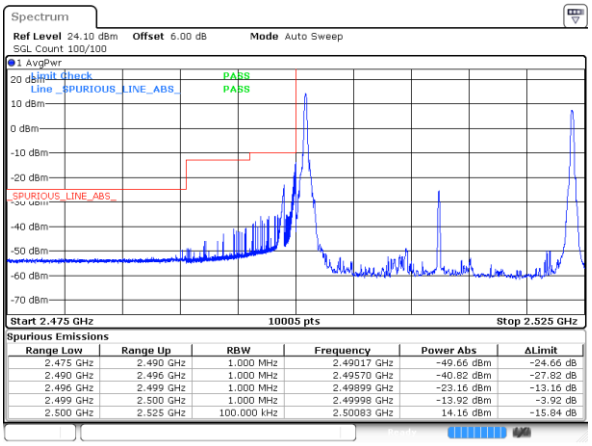
Highest Band Edge / Full RB



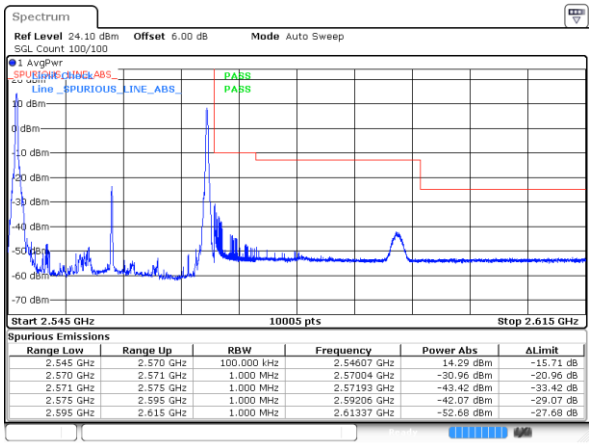
LTE Band 7C / 15MHz+10MHz

16QAM

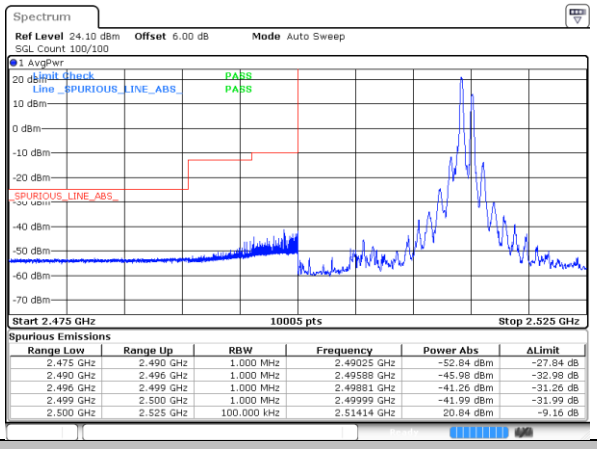
Lowest Band Edge / 1RB0 and 1RB99



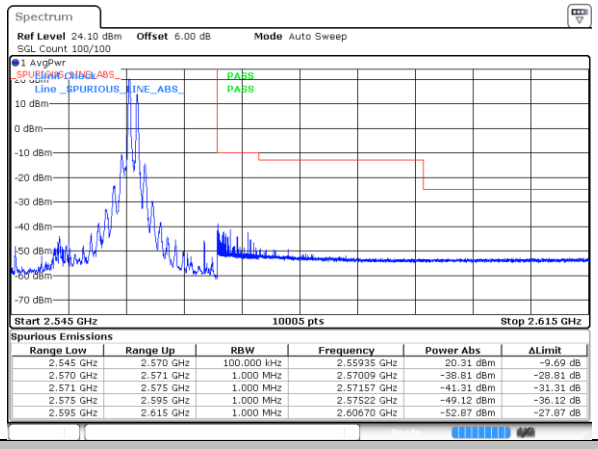
Highest Band Edge / 1RB0 and 1RB99



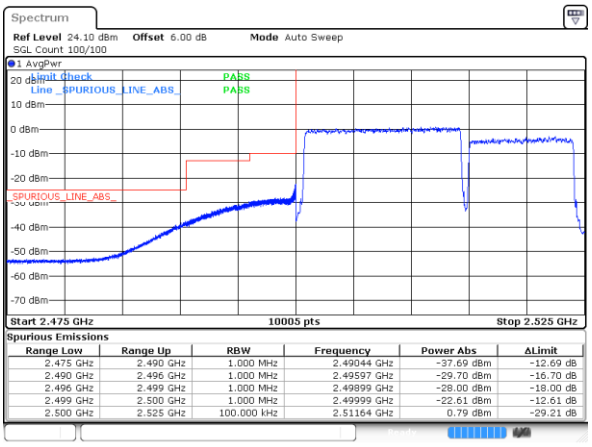
Lowest Band Edge / 1RB99 and 1RB0



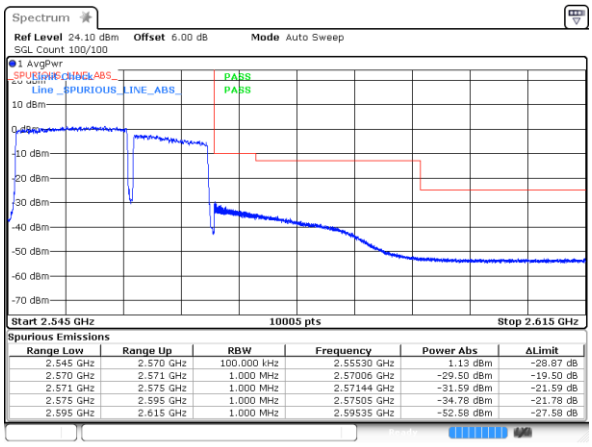
Highest Band Edge / 1RB99 and 1RB0

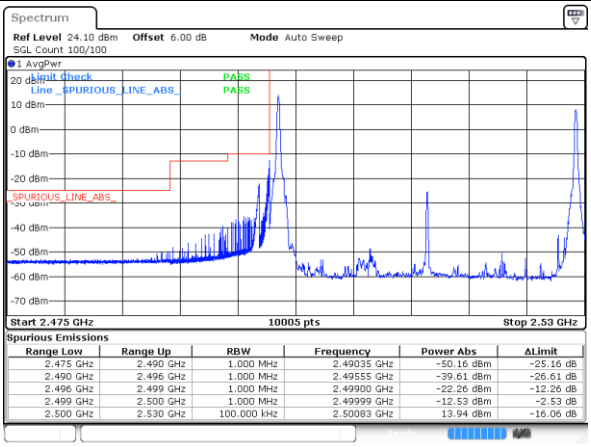
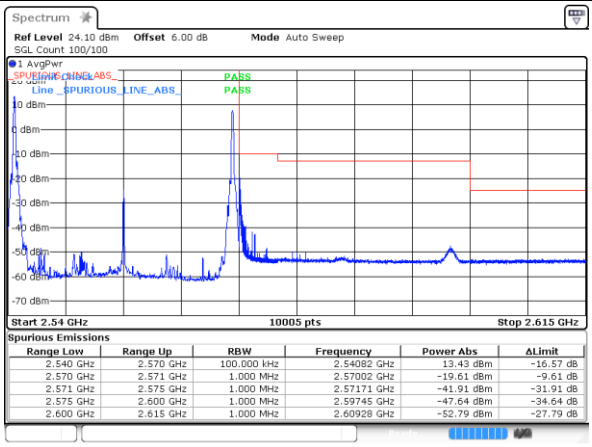
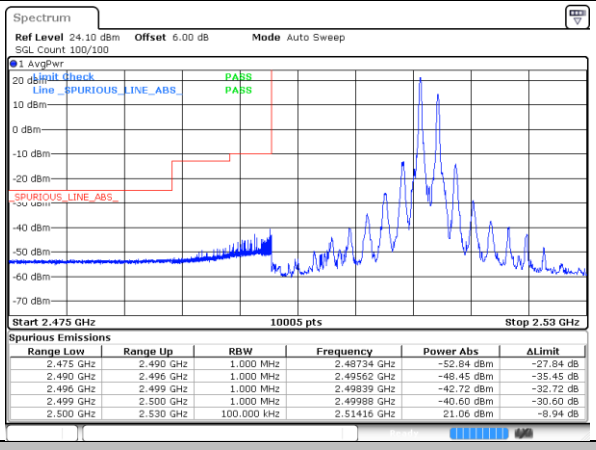
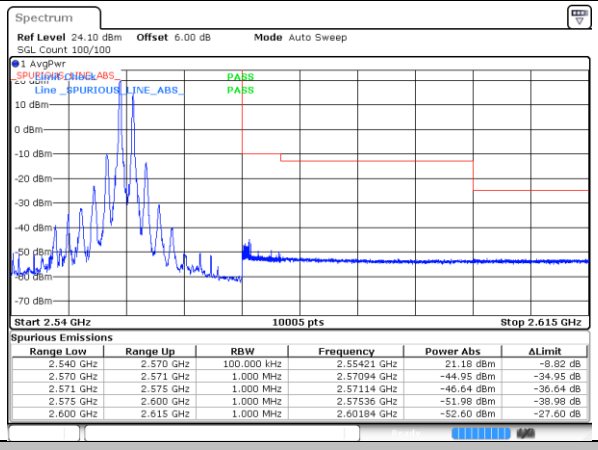
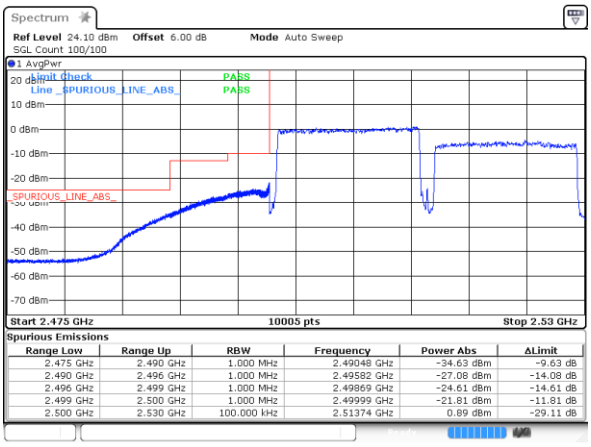
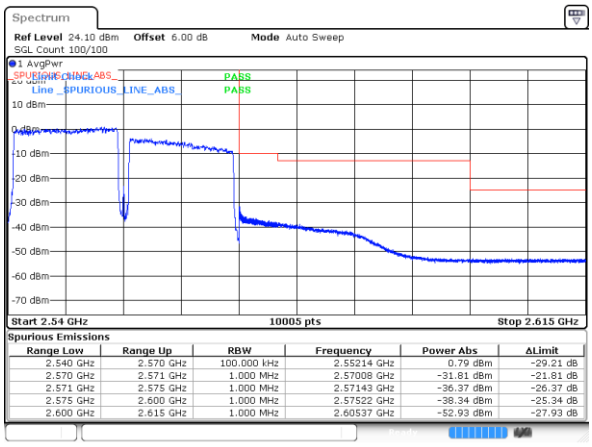


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

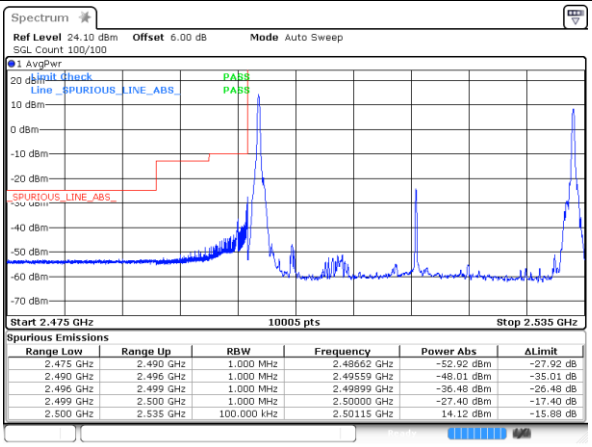


LTE Band 7C / 15MHz+15MHz	
64QAM	
Lowest Band Edge / 1RB0 and 1RB74	Highest Band Edge / 1RB0 and 1RB74
	
Lowest Band Edge / 1RB74 and 1RB0	Highest Band Edge / 1RB74 and 1RB0
	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

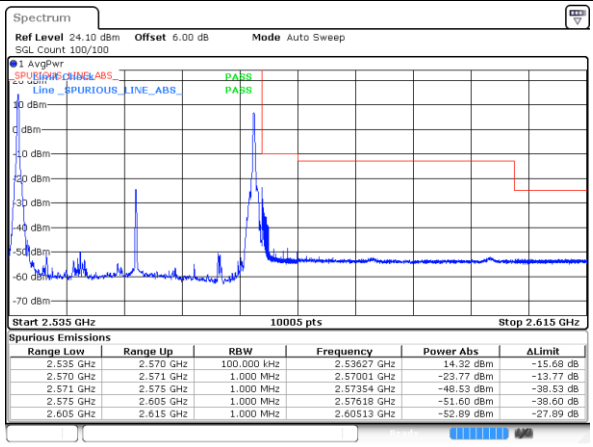
LTE Band 7C / 15MHz+20MHz

64QAM

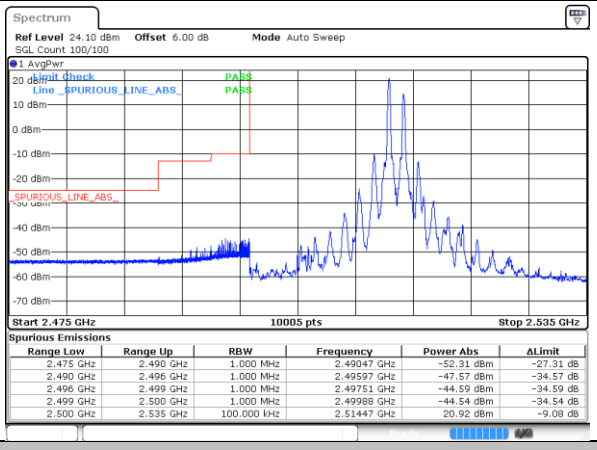
Lowest Band Edge / 1RB0 and 1RB74



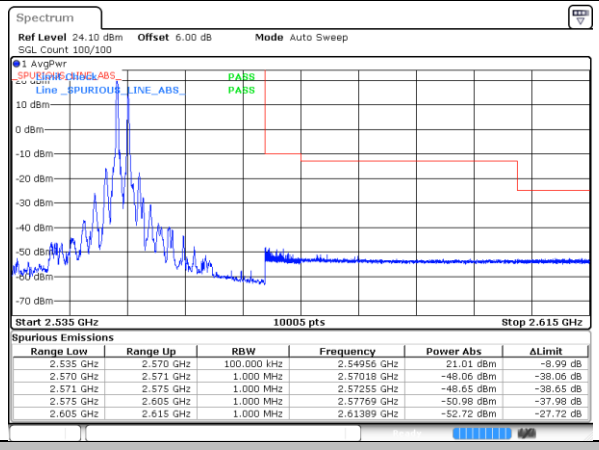
Highest Band Edge / 1RB0 and 1RB74



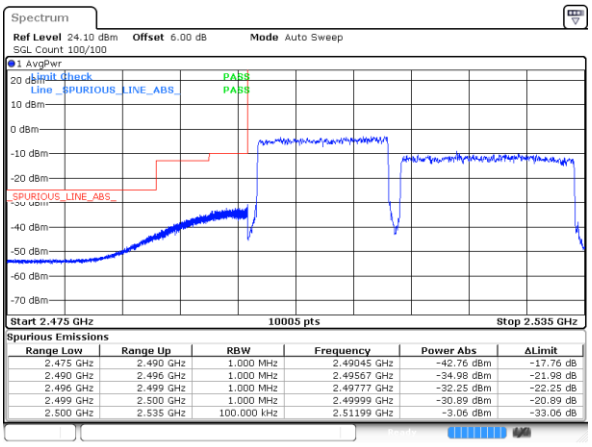
Lowest Band Edge / 1RB74 and 1RB0



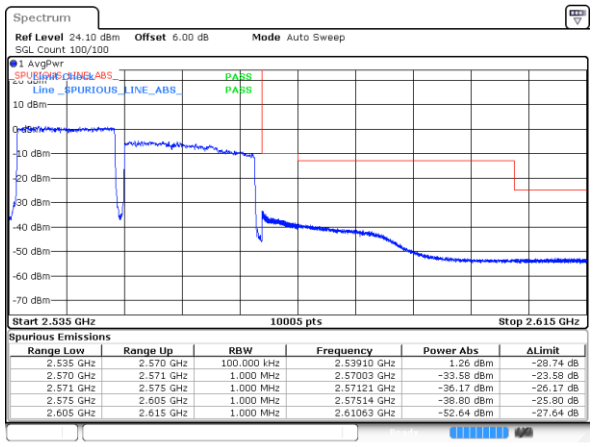
Highest Band Edge / 1RB74 and 1RB0

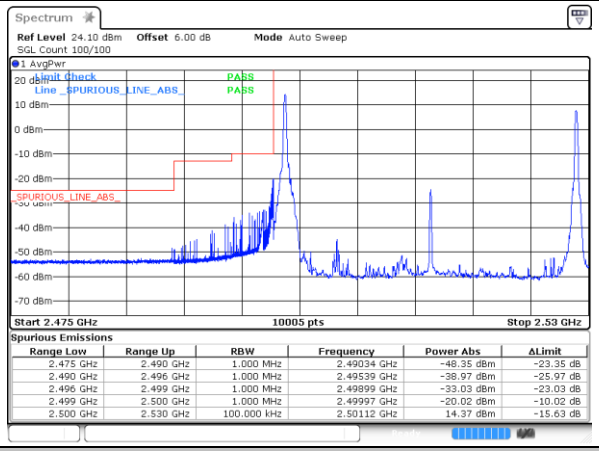
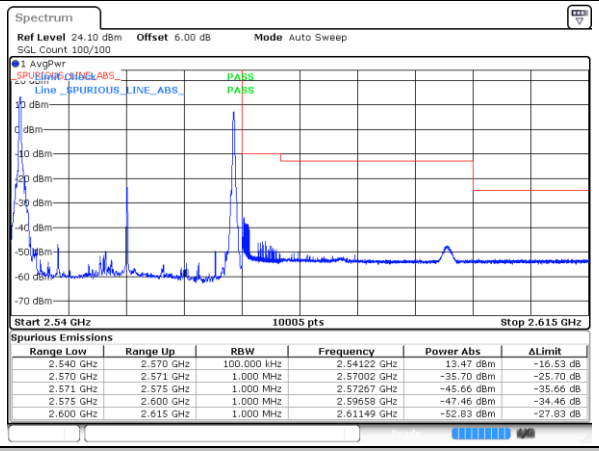
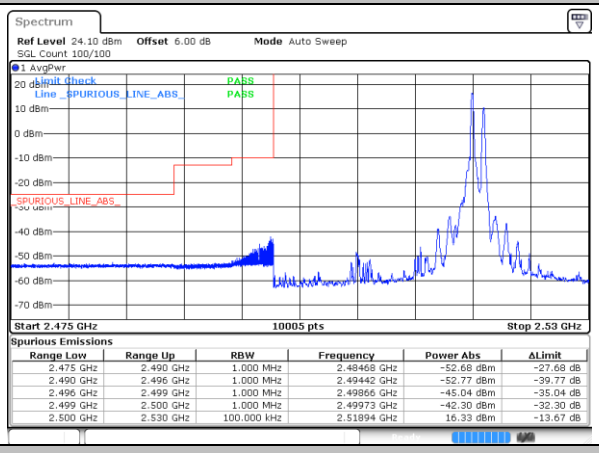
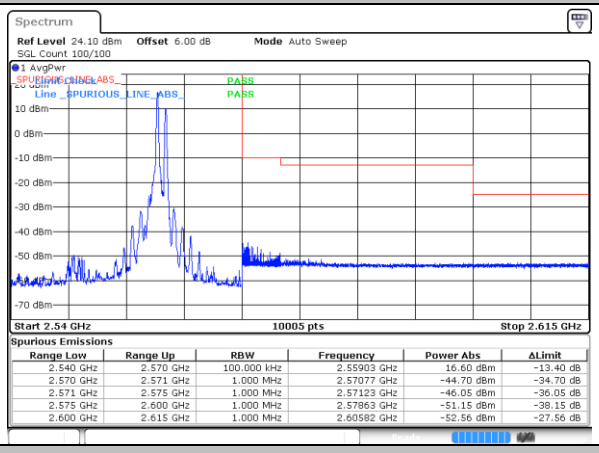
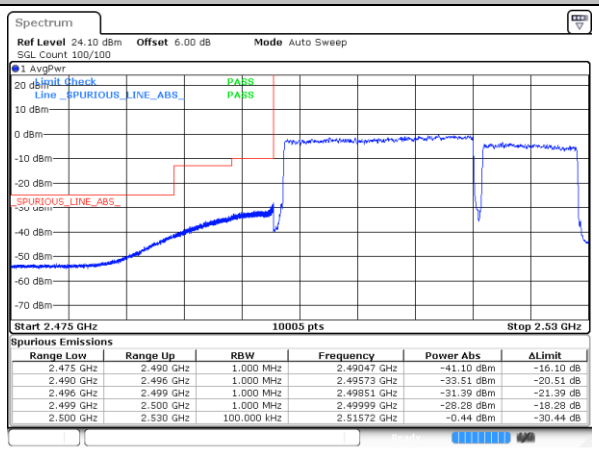
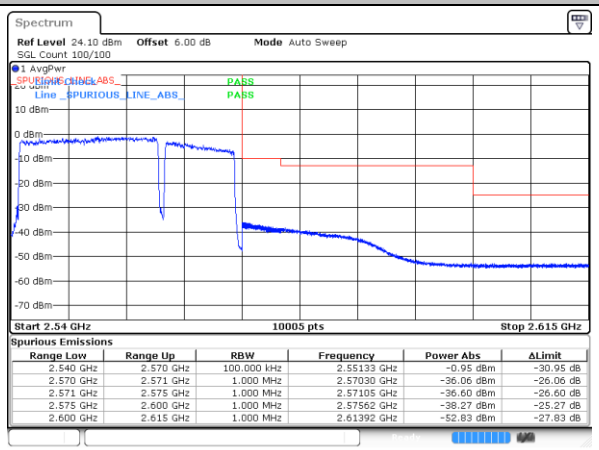


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

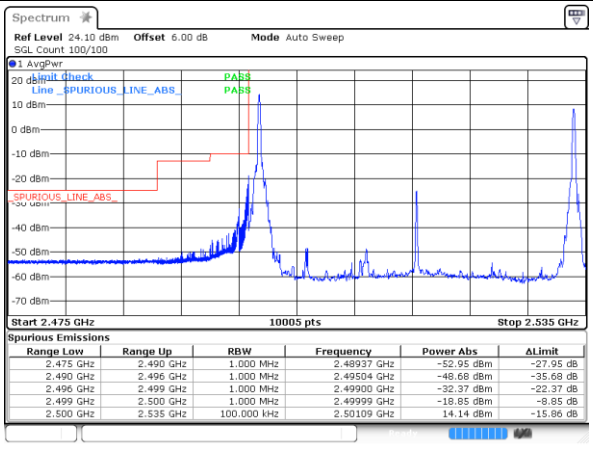


LTE Band 7C / 20MHz+10MHz	
64QAM	
Lowest Band Edge / 1RB0 and 1RB74	Highest Band Edge / 1RB0 and 1RB74
	
Lowest Band Edge / 1RB74 and 1RB0	Highest Band Edge / 1RB74 and 1RB0
	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

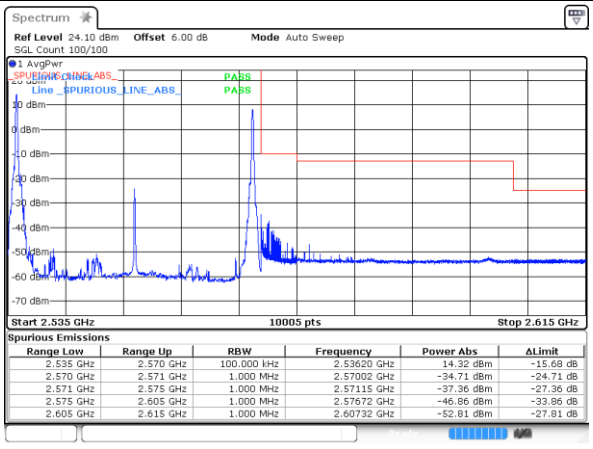
LTE Band 7C / 20MHz+15MHz

64QAM

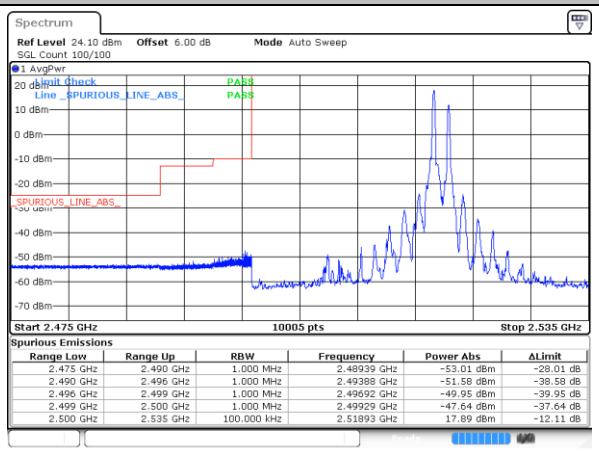
Lowest Band Edge / 1RB0 and 1RB74



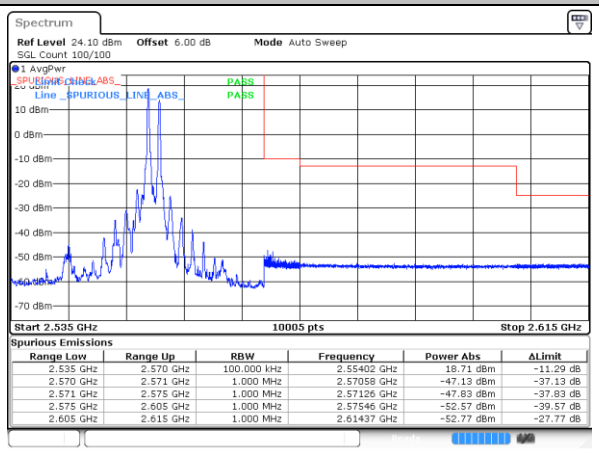
Highest Band Edge / 1RB0 and 1RB74



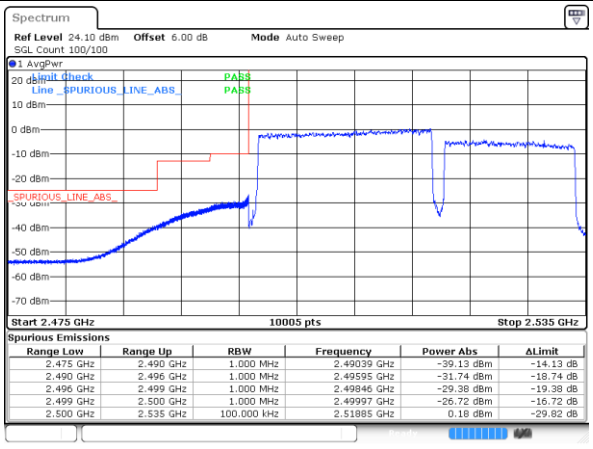
Lowest Band Edge / 1RB74 and 1RB0



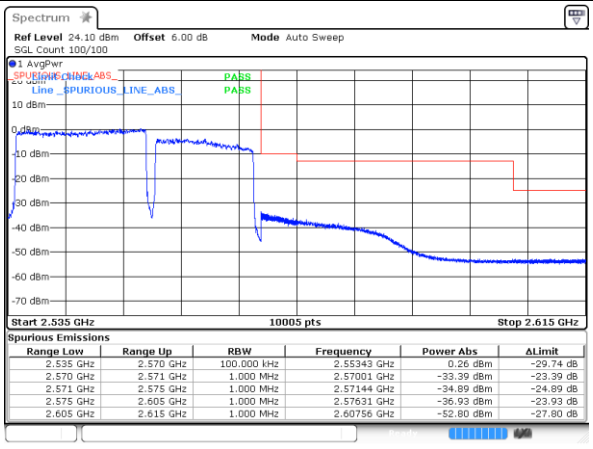
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



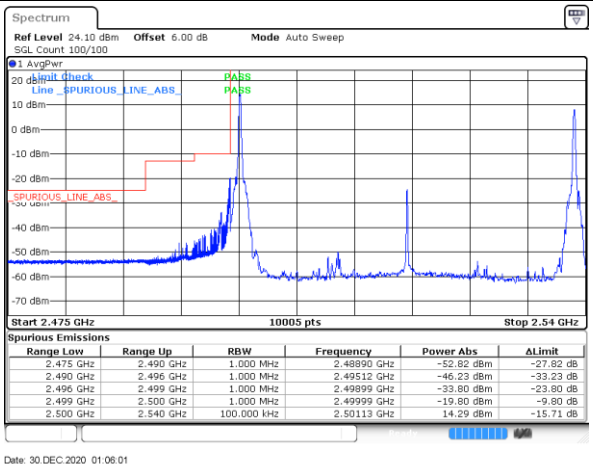
Highest Band Edge / Full RB



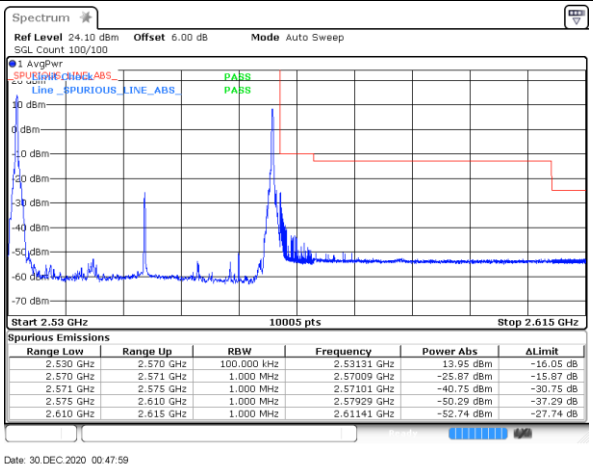
LTE Band 7C / 20MHz+20MHz

64QAM

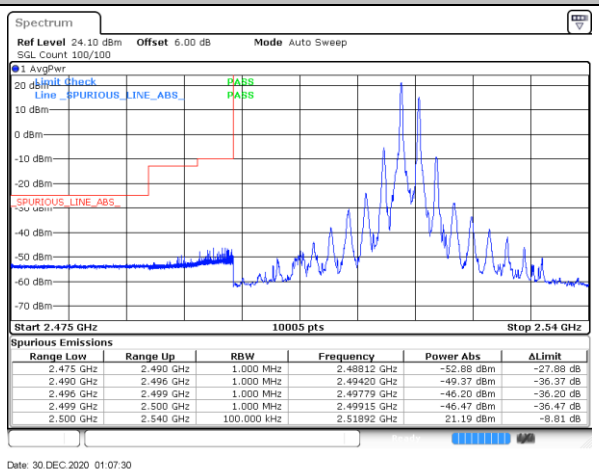
Lowest Band Edge / 1RB0 and 1RB74



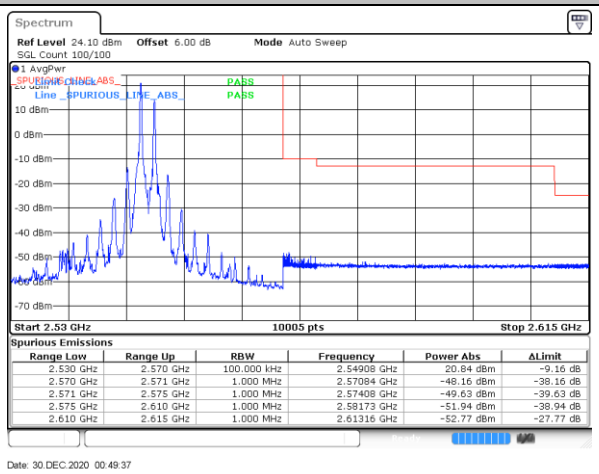
Highest Band Edge / 1RB0 and 1RB74



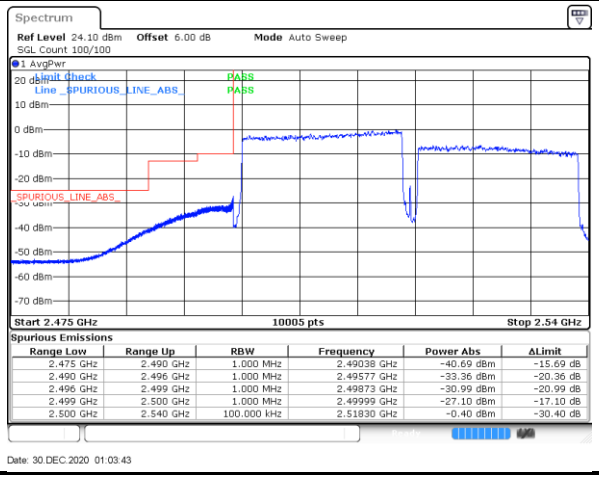
Lowest Band Edge / 1RB74 and 1RB0



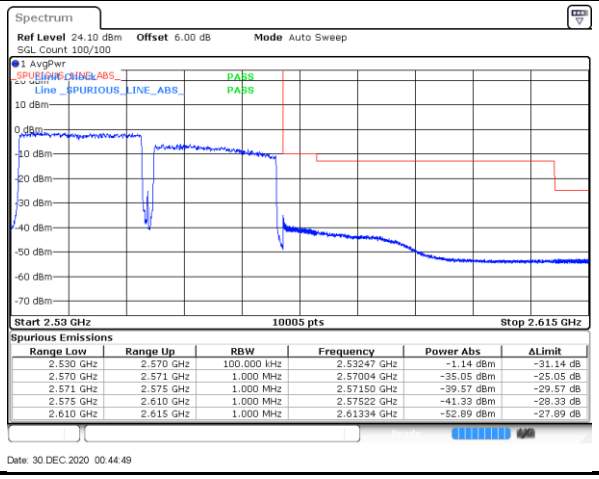
Highest Band Edge / 1RB74 and 1RB0



Lowest Band Edge / Full RB



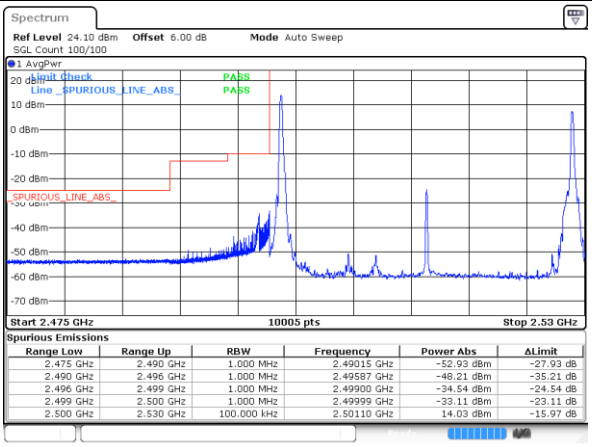
Highest Band Edge / Full RB



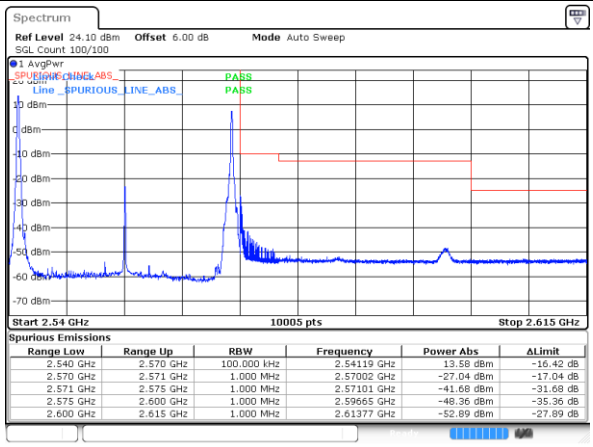
LTE Band 7C / 10MHz+20MHz

64QAM

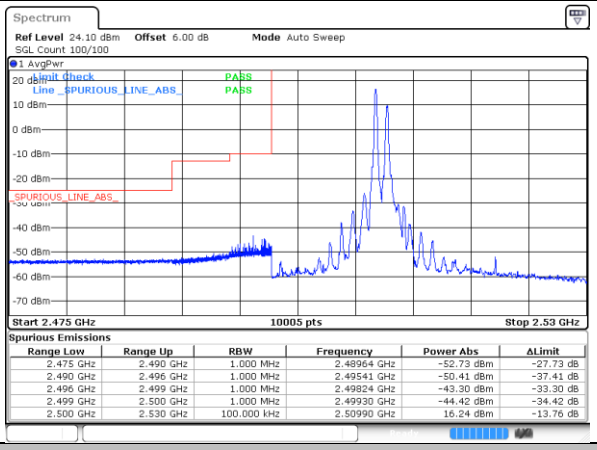
Lowest Band Edge / 1RB0 and 1RB99



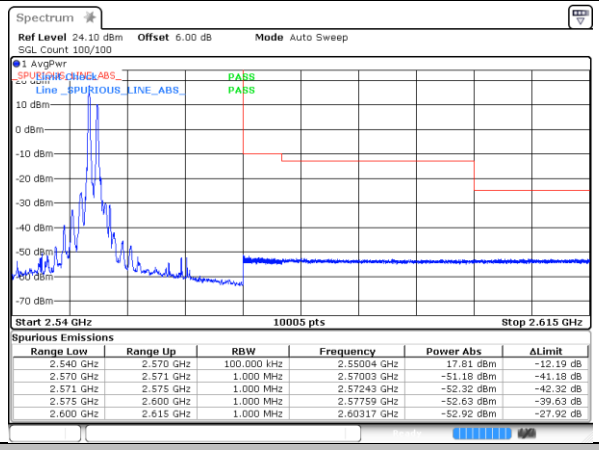
Highest Band Edge / 1RB0 and 1RB99



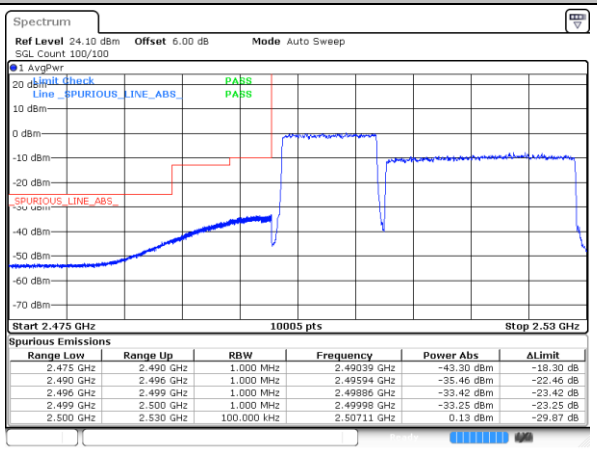
Lowest Band Edge / 1RB99 and 1RB0



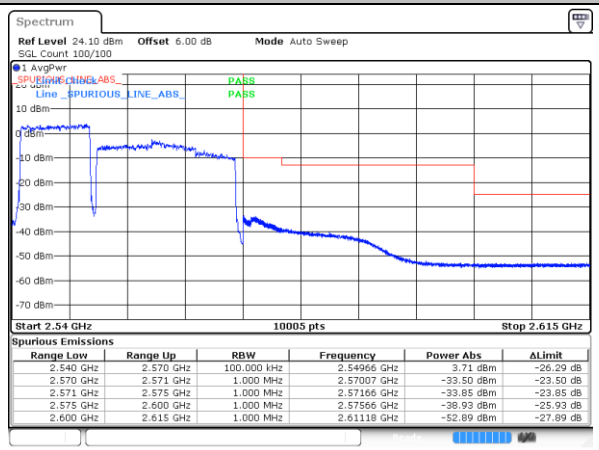
Highest Band Edge / 1RB99 and 1RB0

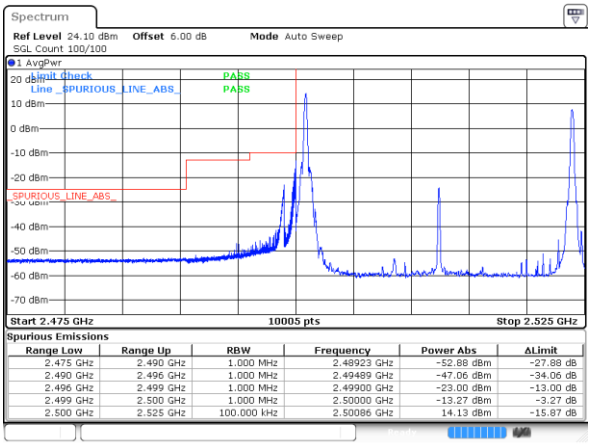
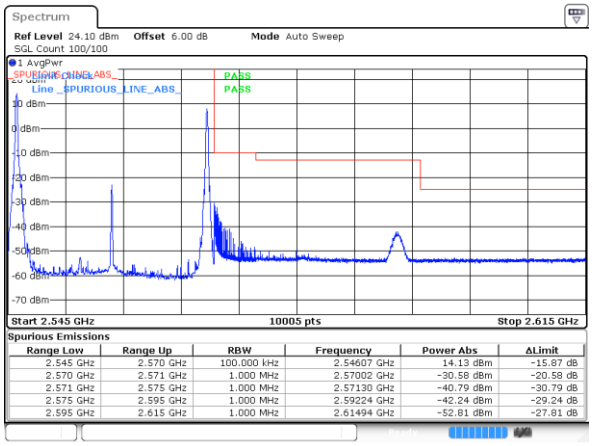
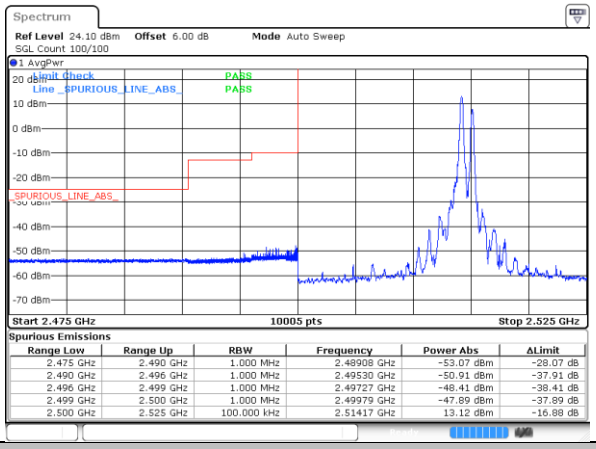
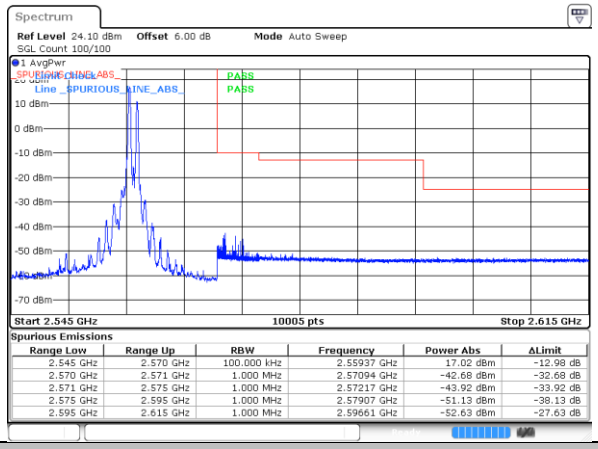
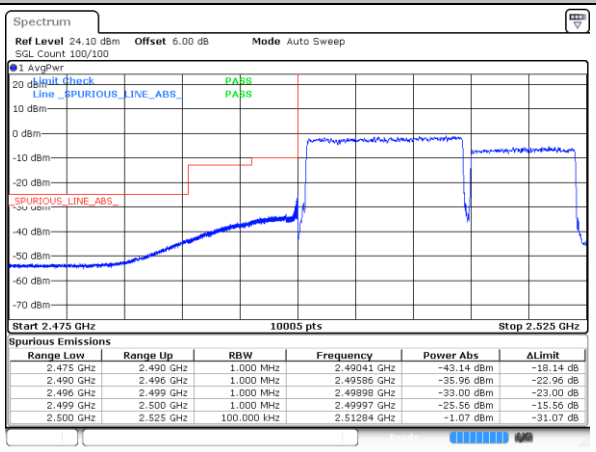
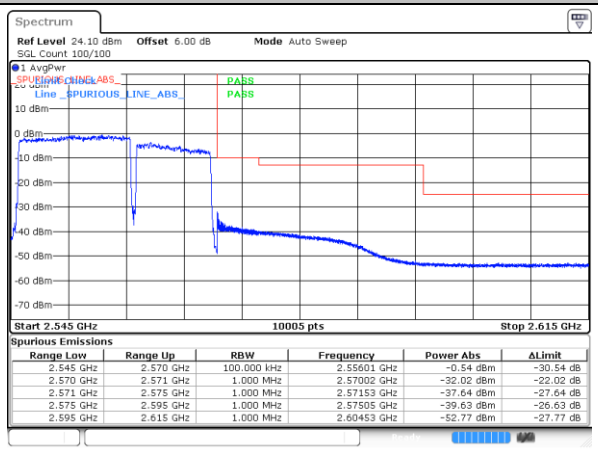


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

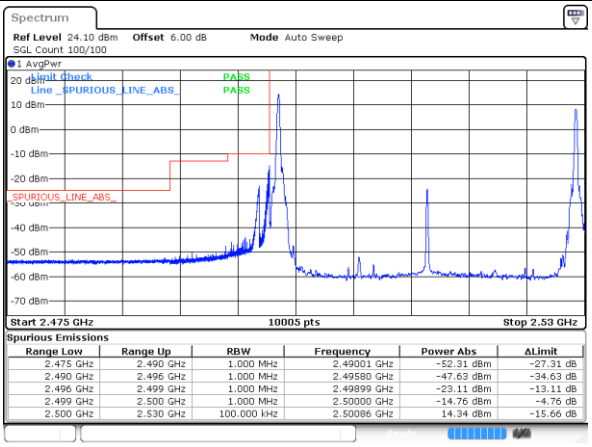


LTE Band 7C / 15MHz+10MHz	
64QAM	
Lowest Band Edge / 1RB0 and 1RB99	Highest Band Edge / 1RB0 and 1RB99
	
Lowest Band Edge / 1RB99 and 1RB0	Highest Band Edge / 1RB99 and 1RB0
	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

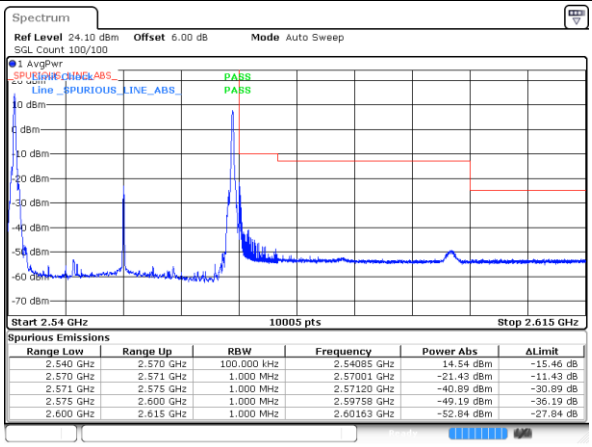
LTE Band 7C / 15MHz+15MHz

64QAM

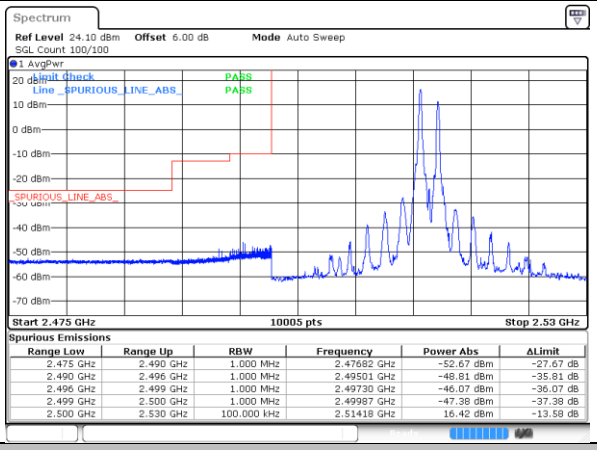
Lowest Band Edge / 1RB0 and 1RB99



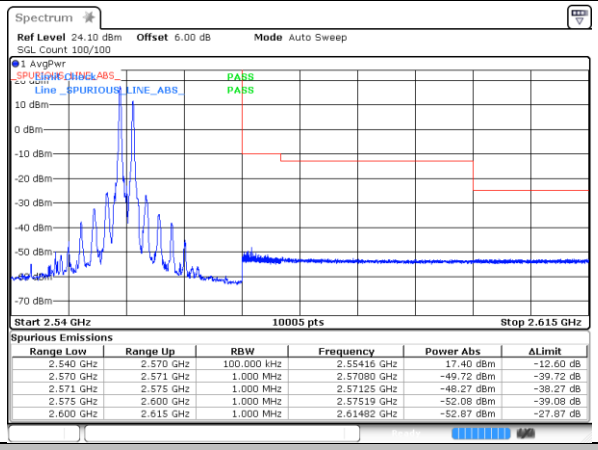
Highest Band Edge / 1RB0 and 1RB99



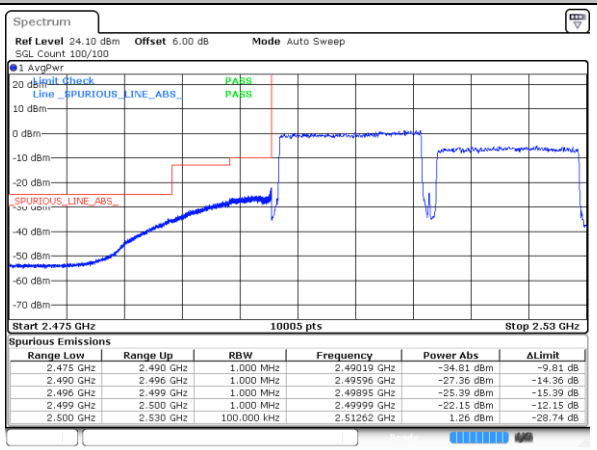
Lowest Band Edge / 1RB99 and 1RB0



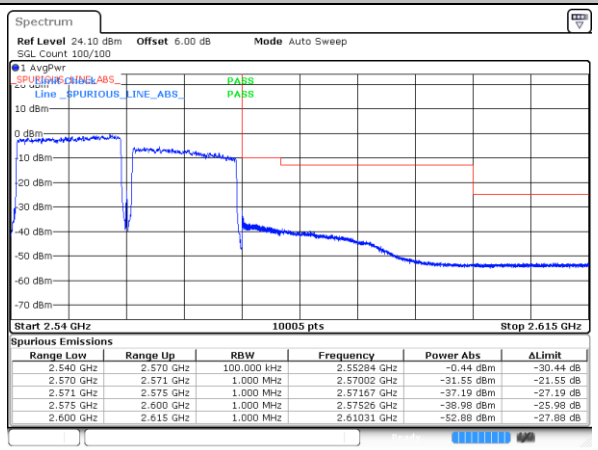
Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



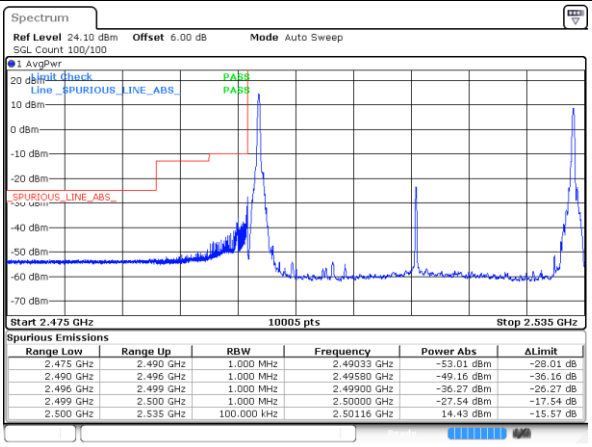
Highest Band Edge / Full RB



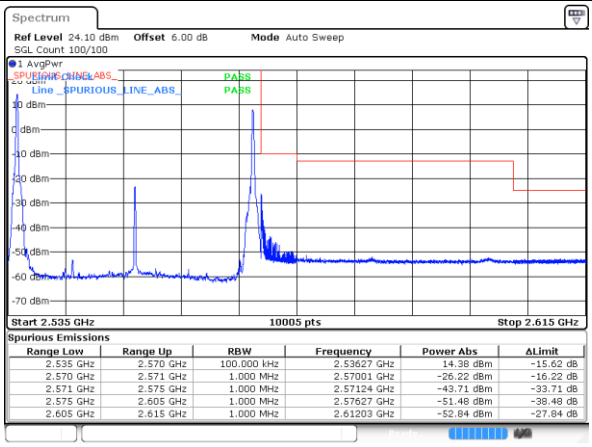
LTE Band 7C / 15MHz+20MHz

64QAM

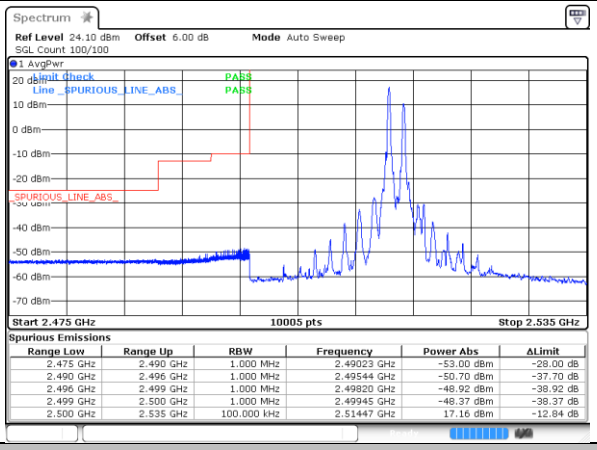
Lowest Band Edge / 1RB0 and 1RB99



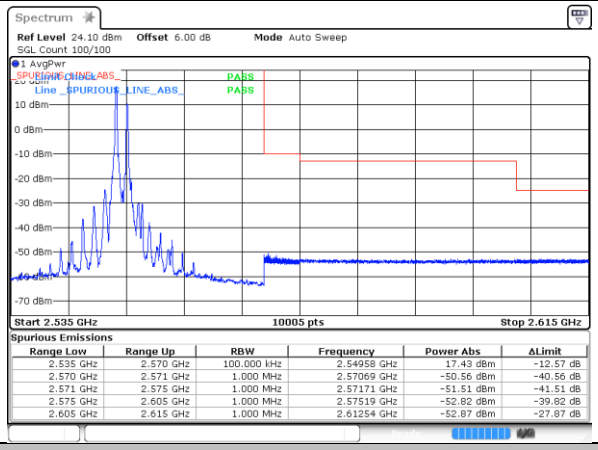
Highest Band Edge / 1RB0 and 1RB99



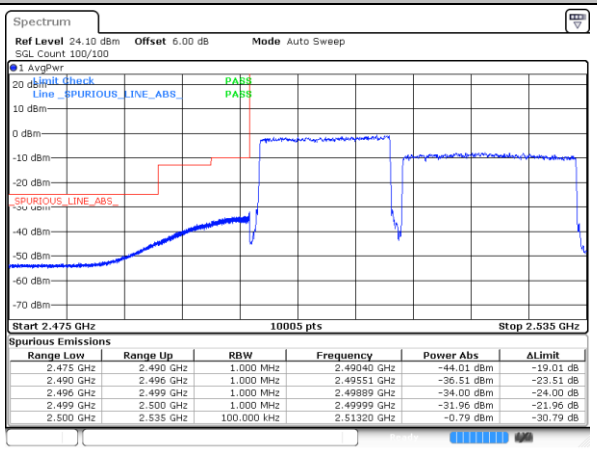
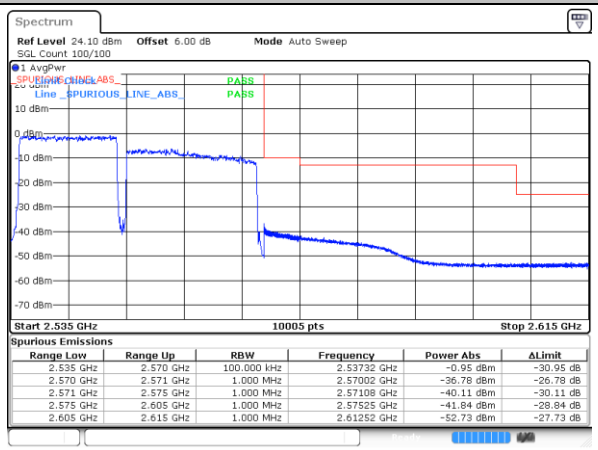
Lowest Band Edge / 1RB99 and 1RB0



Highest Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB