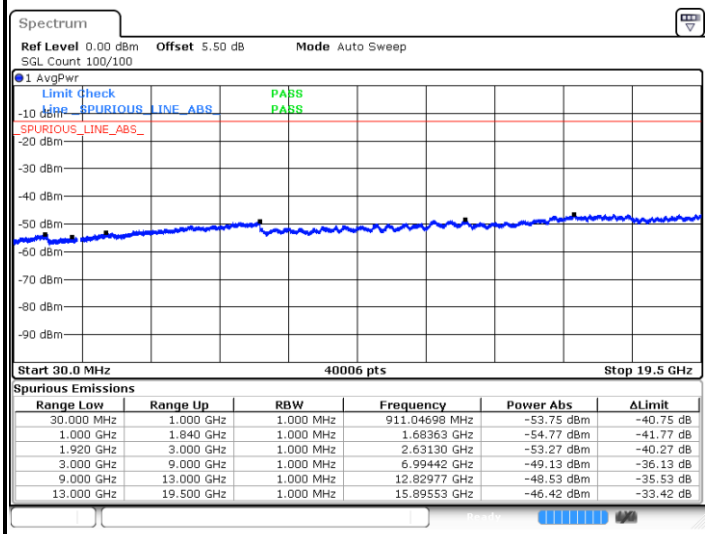
LTE Band 2 / 5MHz

Lowest Channel / QPSK

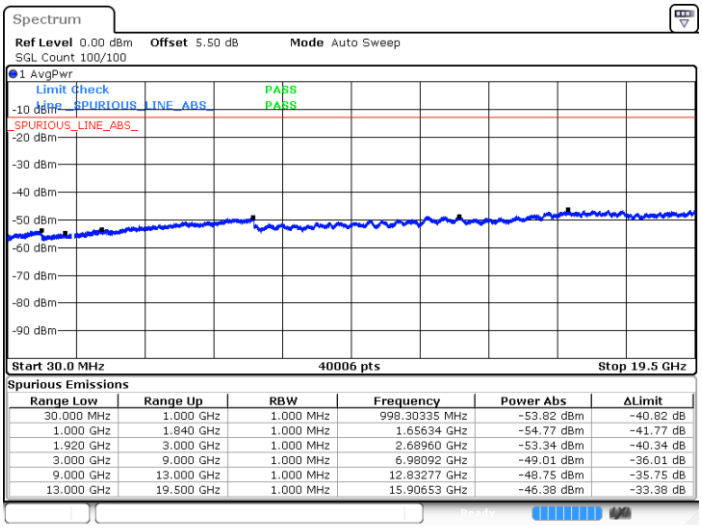


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	911.04698 MHz	-53.75 dBm	-40.75 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.68363 GHz	-54.77 dBm	-41.77 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.63130 GHz	-53.27 dBm	-40.27 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99442 GHz	-49.13 dBm	-36.13 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.82977 GHz	-48.53 dBm	-35.53 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.89553 GHz	-46.42 dBm	-33.42 dB

Date: 16.APR.2021 22:12:12

Middle Channel / QPSK

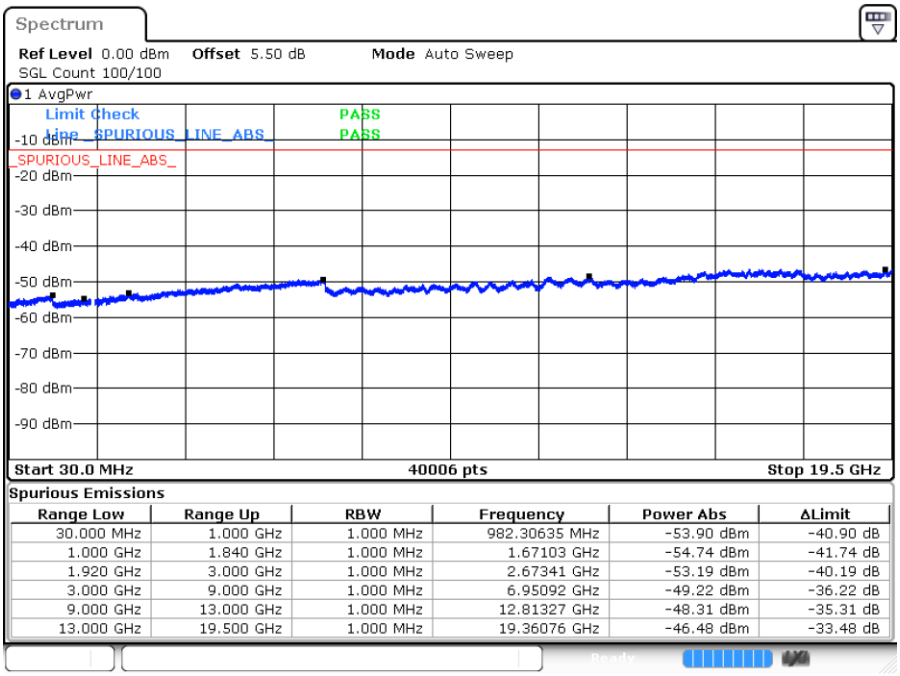


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	998.30335 MHz	-53.82 dBm	-40.82 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.65634 GHz	-54.77 dBm	-41.77 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.68960 GHz	-53.34 dBm	-40.34 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98092 GHz	-49.01 dBm	-36.01 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.83277 GHz	-48.75 dBm	-35.75 dB
13.000 GHz	19.500 GHz	1.000 MHz	15.90653 GHz	-46.38 dBm	-33.38 dB

Date: 16.APR.2021 22:13:28

Highest Channel / QPSK



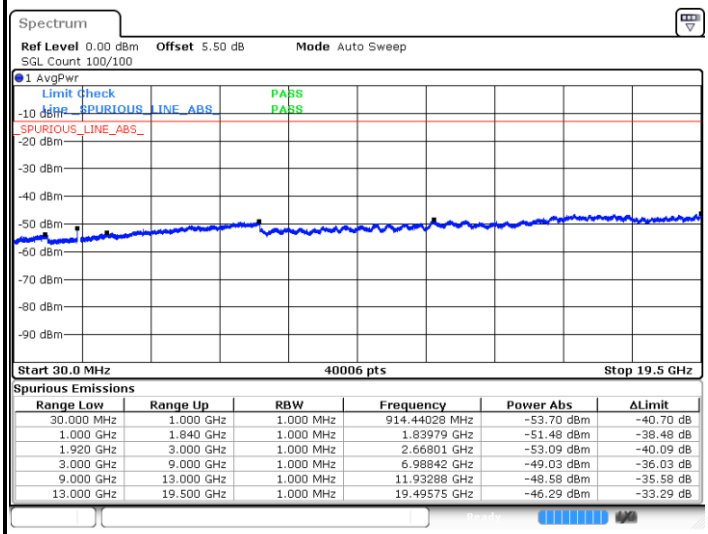
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.30635 MHz	-53.90 dBm	-40.90 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.67103 GHz	-54.74 dBm	-41.74 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.67341 GHz	-53.19 dBm	-40.19 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95092 GHz	-49.22 dBm	-36.22 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.81327 GHz	-48.31 dBm	-35.31 dB
13.000 GHz	19.500 GHz	1.000 MHz	19.36076 GHz	-46.48 dBm	-33.48 dB

Date: 16.APR.2021 22:14:30

LTE Band 2 / 10MHz

Lowest Channel / QPSK

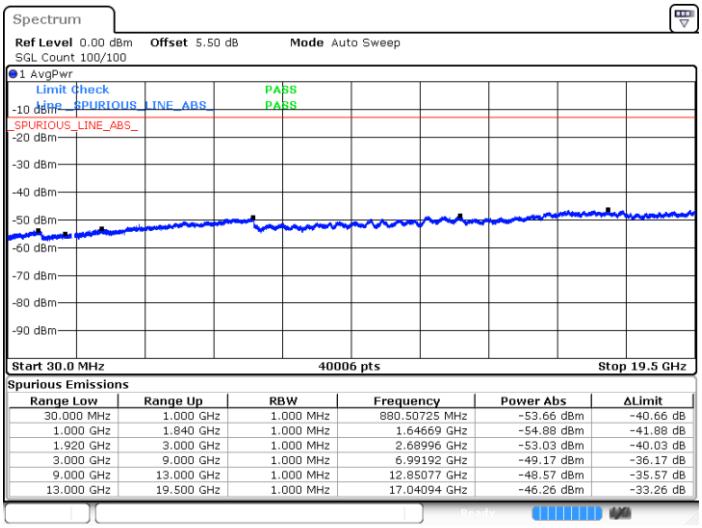


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	914.44028 MHz	-53.70 dBm	-40.70 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-51.48 dBm	-38.48 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.66801 GHz	-53.09 dBm	-40.09 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98842 GHz	-49.03 dBm	-36.03 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.93288 GHz	-48.58 dBm	-35.58 dB
13.000 GHz	19.500 GHz	1.000 MHz	19.49575 GHz	-46.29 dBm	-33.29 dB

Date: 16.APR.2021 22:16:38

Middle Channel / QPSK

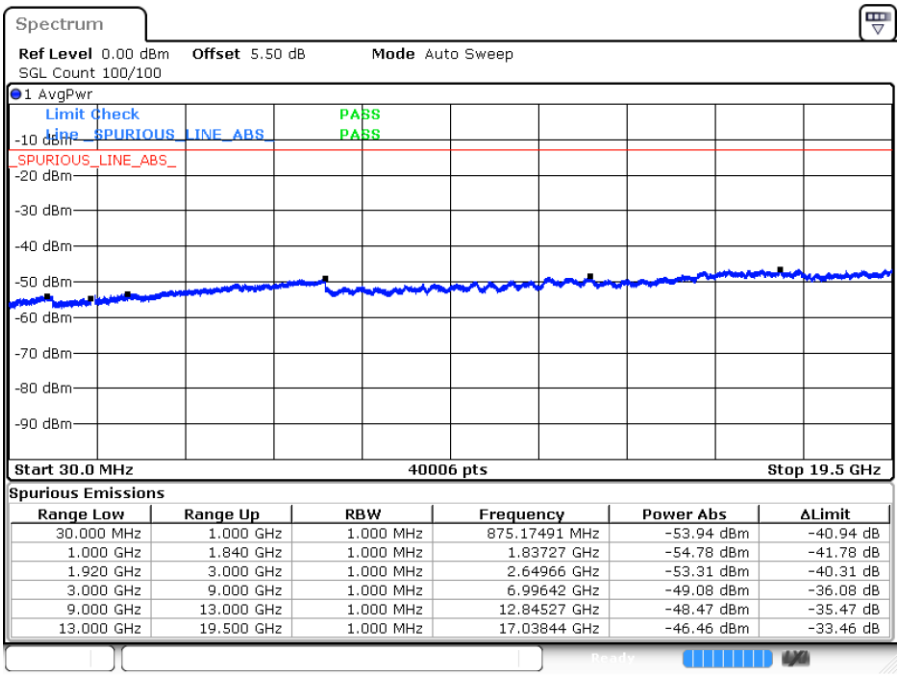


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	880.50725 MHz	-53.66 dBm	-40.66 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.64669 GHz	-54.88 dBm	-41.88 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.68996 GHz	-53.03 dBm	-40.03 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99192 GHz	-49.17 dBm	-36.17 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.85077 GHz	-48.57 dBm	-35.57 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.04094 GHz	-46.26 dBm	-33.26 dB

Date: 16.APR.2021 22:17:22

Highest Channel / QPSK



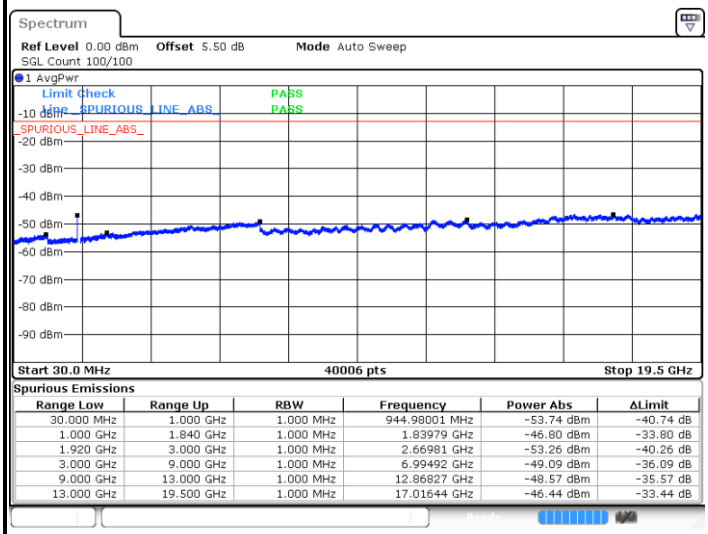
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	875.17491 MHz	-53.94 dBm	-40.94 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83727 GHz	-54.78 dBm	-41.78 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.64966 GHz	-53.31 dBm	-40.31 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99642 GHz	-49.08 dBm	-36.08 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.84527 GHz	-48.47 dBm	-35.47 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.03844 GHz	-46.46 dBm	-33.46 dB

Date: 16.APR.2021 22:18:11

LTE Band 2 / 15MHz

Lowest Channel / QPSK

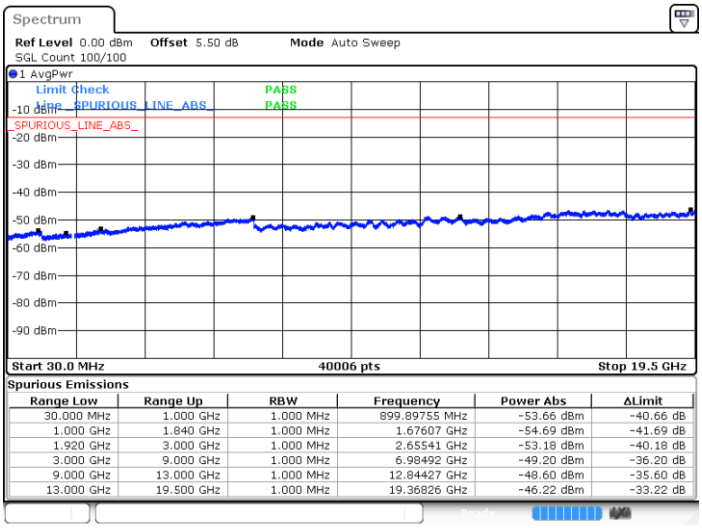


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	944.98001 MHz	-53.74 dBm	-40.74 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-46.80 dBm	-33.80 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.66981 GHz	-53.26 dBm	-40.26 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99492 GHz	-49.09 dBm	-36.09 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.86827 GHz	-48.57 dBm	-35.57 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.01644 GHz	-46.44 dBm	-33.44 dB

Date: 16.APR.2021 22:19:20

Middle Channel / QPSK

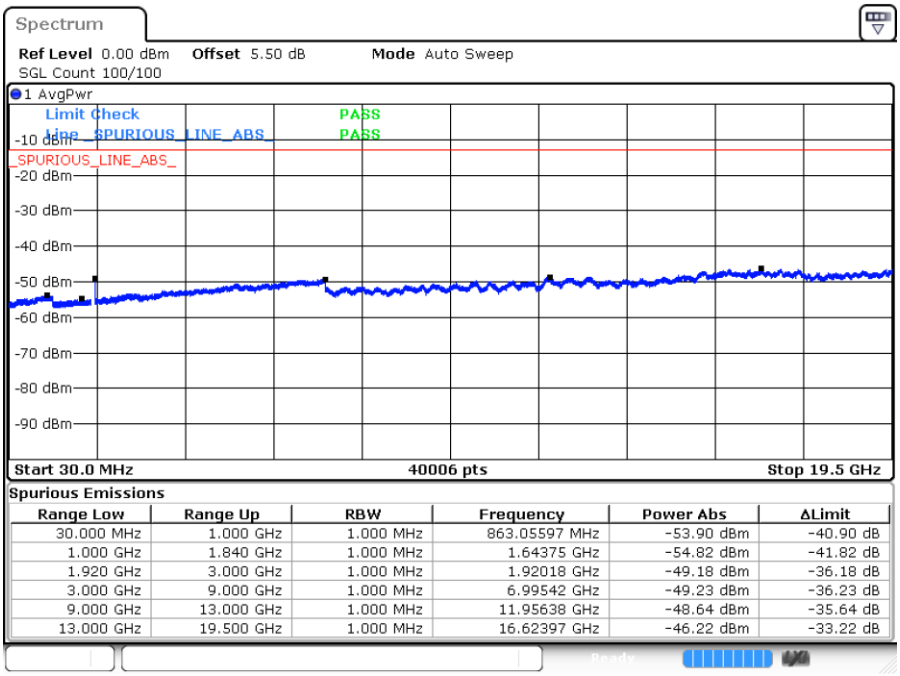


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	899.89755 MHz	-53.66 dBm	-40.66 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.67607 GHz	-54.69 dBm	-41.69 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.65541 GHz	-53.18 dBm	-40.18 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98492 GHz	-49.20 dBm	-36.20 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.84427 GHz	-48.60 dBm	-35.60 dB
13.000 GHz	19.500 GHz	1.000 MHz	19.36826 GHz	-46.22 dBm	-33.22 dB

Date: 16.APR.2021 22:20:06

Highest Channel / QPSK



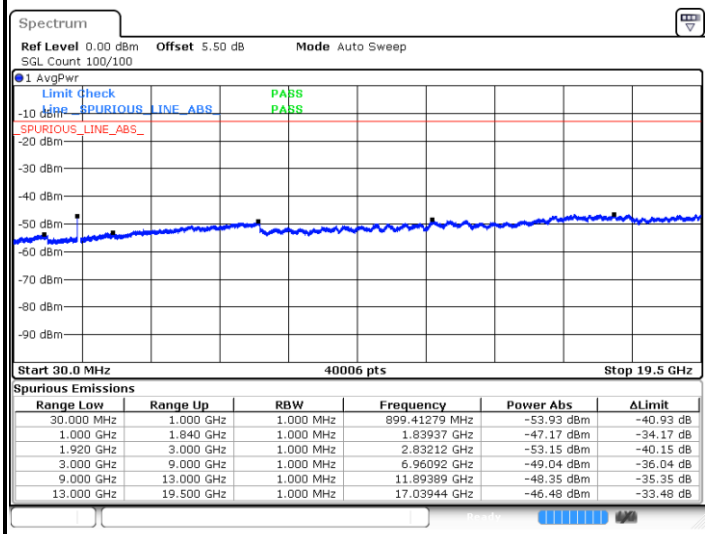
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	863.05597 MHz	-53.90 dBm	-40.90 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.64375 GHz	-54.82 dBm	-41.82 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92018 GHz	-49.18 dBm	-36.18 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99542 GHz	-49.23 dBm	-36.23 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.95638 GHz	-48.64 dBm	-35.64 dB
13.000 GHz	19.500 GHz	1.000 MHz	16.62397 GHz	-46.22 dBm	-33.22 dB

Date: 16.APR.2021 22:20:49

LTE Band 2 / 20MHz

Lowest Channel / QPSK

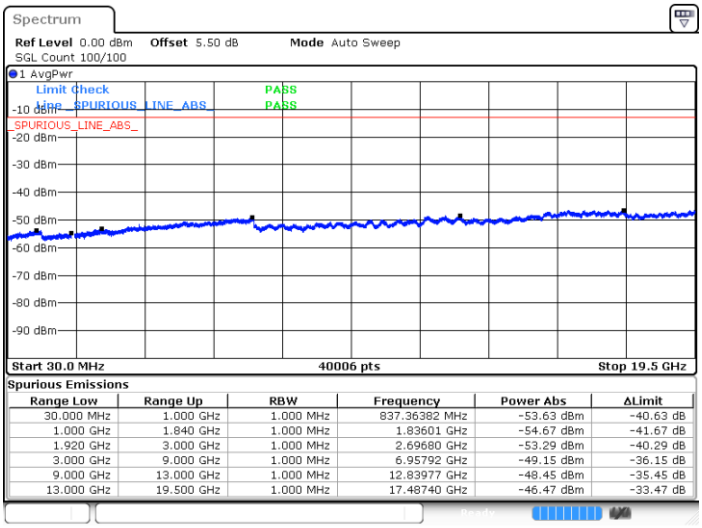


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	899.41279 MHz	-53.93 dBm	-40.93 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83937 GHz	-47.17 dBm	-34.17 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.83212 GHz	-53.15 dBm	-40.15 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.96092 GHz	-49.04 dBm	-36.04 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.89389 GHz	-48.35 dBm	-35.35 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.03944 GHz	-46.48 dBm	-33.48 dB

Date: 16.APR.2021 22:23:15

Middle Channel / QPSK

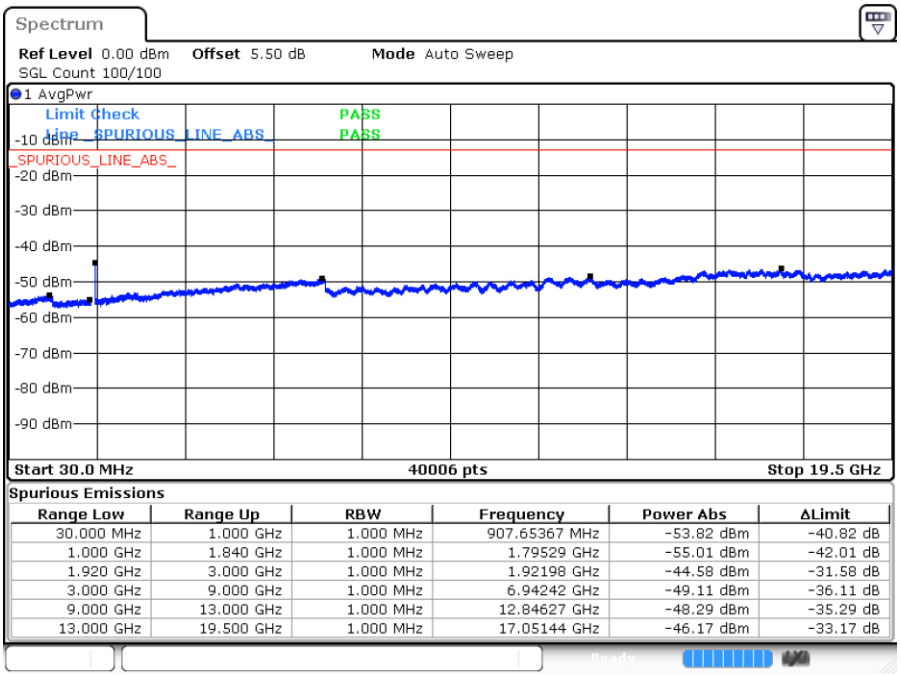


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	837.36382 MHz	-53.63 dBm	-40.63 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83601 GHz	-54.67 dBm	-41.67 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.69680 GHz	-53.29 dBm	-40.29 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.95792 GHz	-49.15 dBm	-36.15 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.83977 GHz	-48.45 dBm	-35.45 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.48740 GHz	-46.47 dBm	-33.47 dB

Date: 16.APR.2021 22:23:57

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	907.65367 MHz	-53.82 dBm	-40.82 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.79529 GHz	-55.01 dBm	-42.01 dB
1.920 GHz	3.000 GHz	1.000 MHz	1.92198 GHz	-44.58 dBm	-31.58 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.94242 GHz	-49.11 dBm	-36.11 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.84627 GHz	-48.29 dBm	-35.29 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.05144 GHz	-46.17 dBm	-33.17 dB

Date: 16.APR.2021 22:24:40

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.35 V.

2. Note: The frequency fundamental emissions stay within the authorized frequency block.

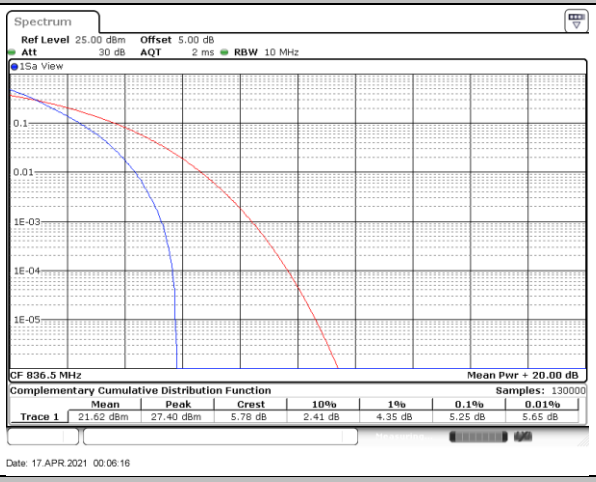
LTE Band 5

Peak-to-Average Ratio

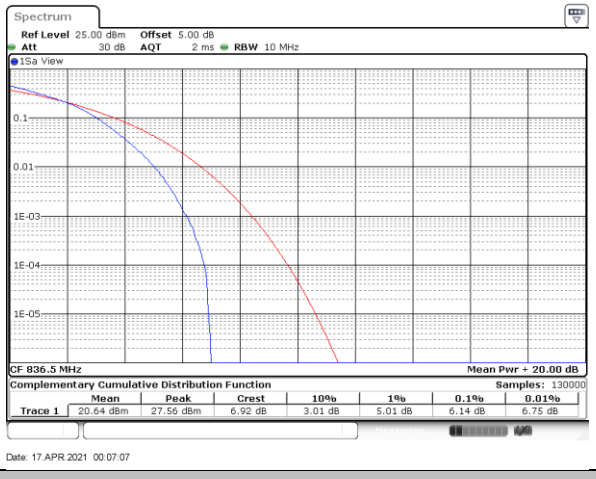
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.14	6.09	PASS

LTE Band 5 / 10MHz

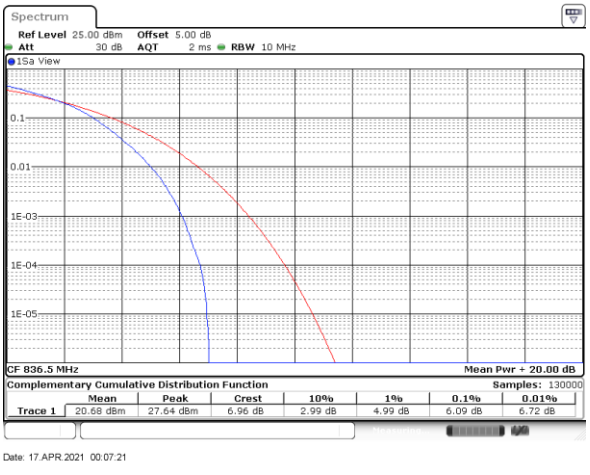
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

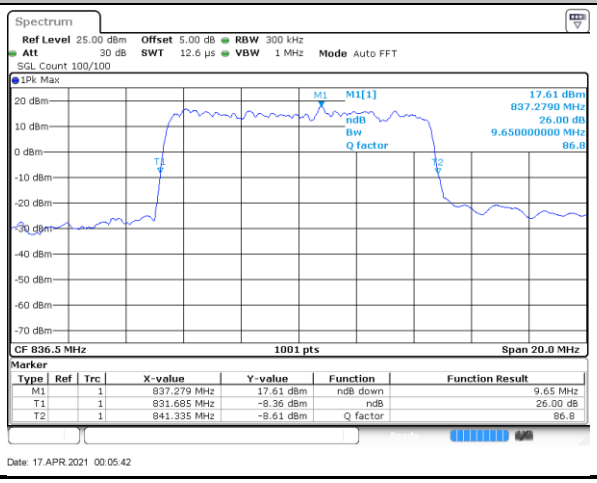


26dB Bandwidth

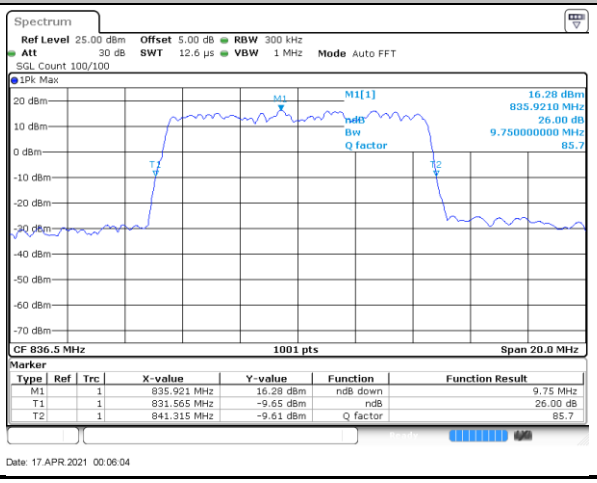
Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.65	9.75

LTE Band 5

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

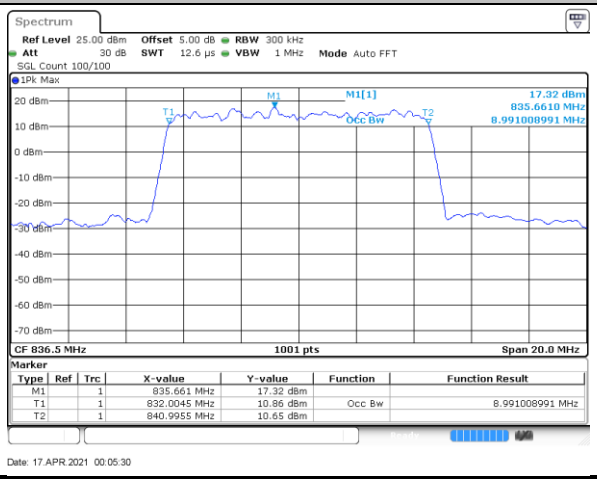


Occupied Bandwidth

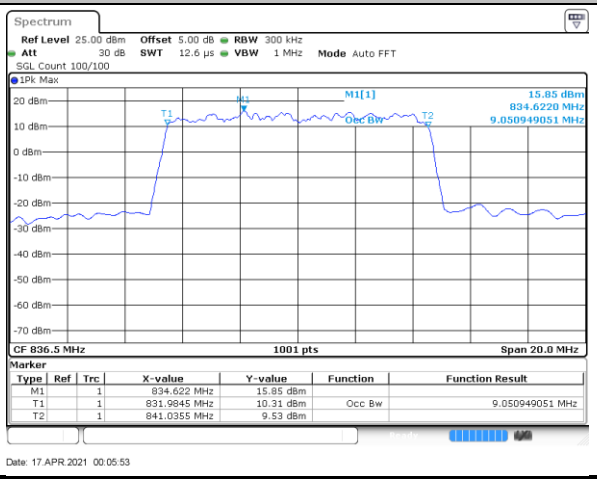
Mode	LTE Band 5 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.05

LTE Band 5

Middle Channel / 10MHz / QPSK



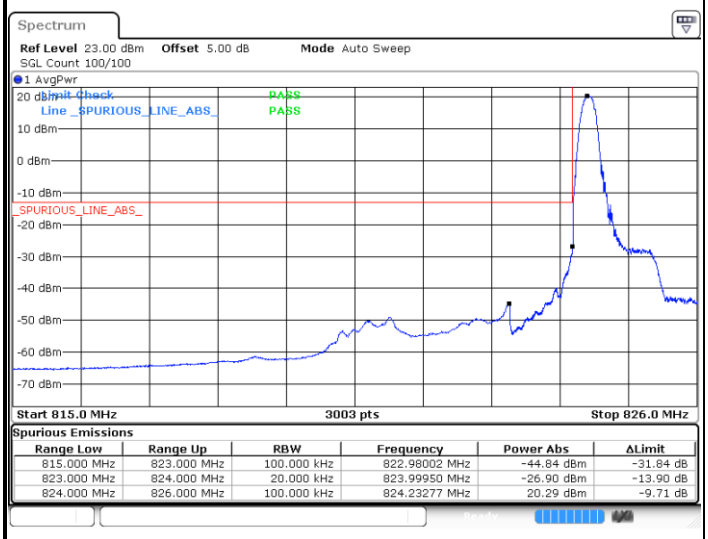
Middle Channel / 10MHz / 16QAM



Conducted Band Edge

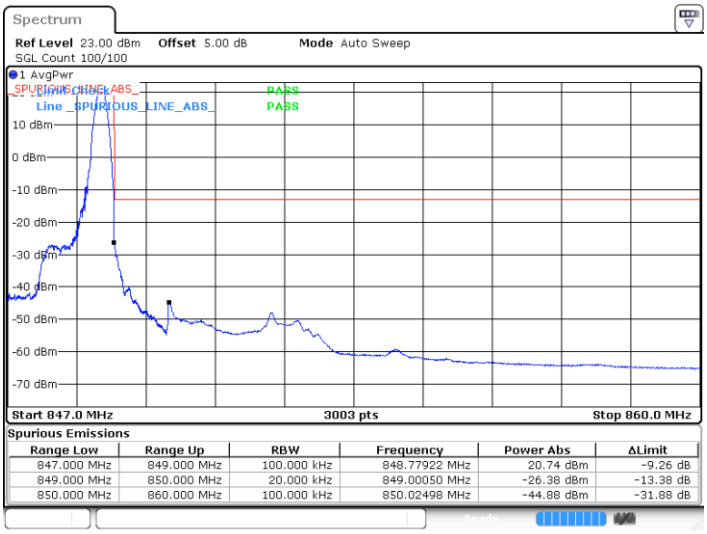
LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



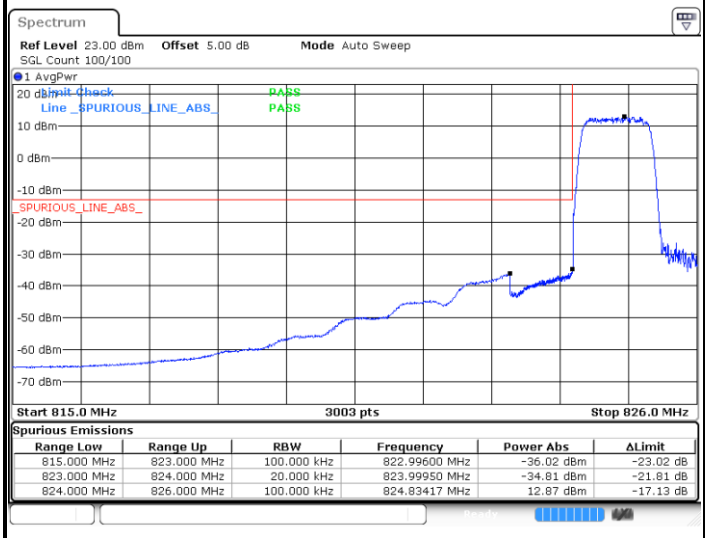
Date: 16.APR.2021 22:34:00

Highest Band Edge / 1RB



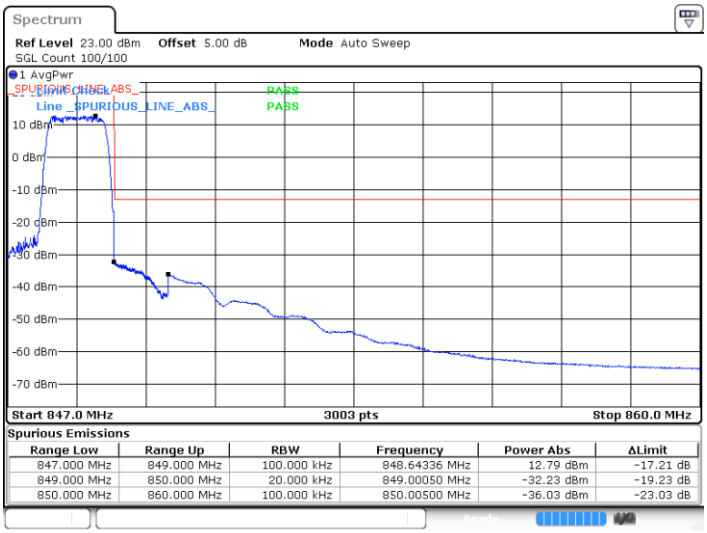
Date: 16.APR.2021 22:43:44

Lowest Band Edge / Full RB



Date: 16.APR.2021 22:37:15

Highest Band Edge / Full RB



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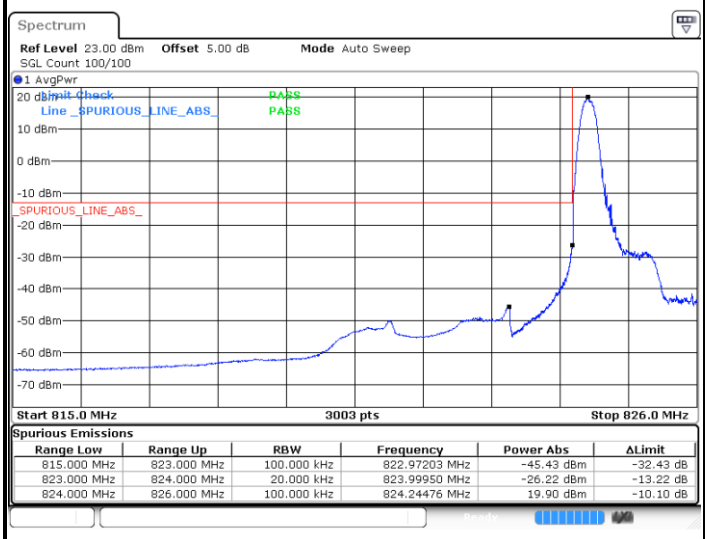
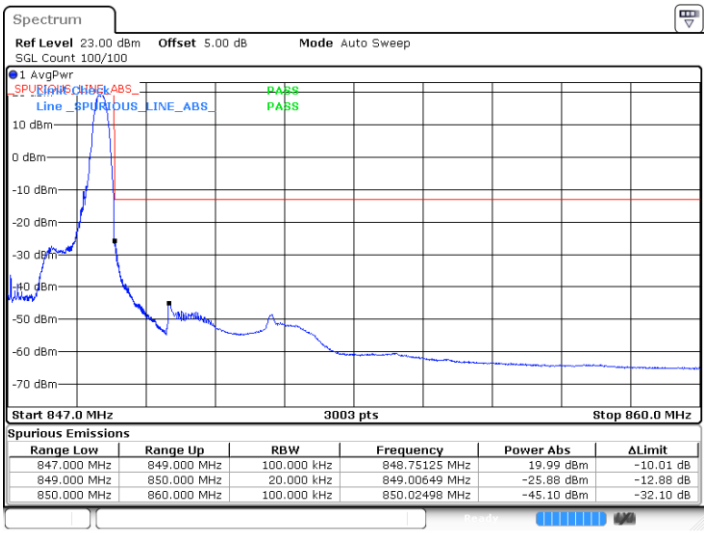
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



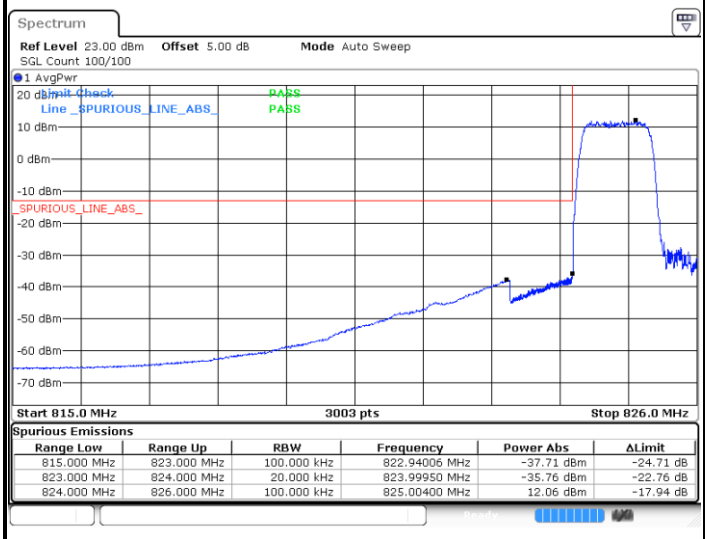
Date: 16.APR.2021 22:35:37

Highest Band Edge / 1 RB



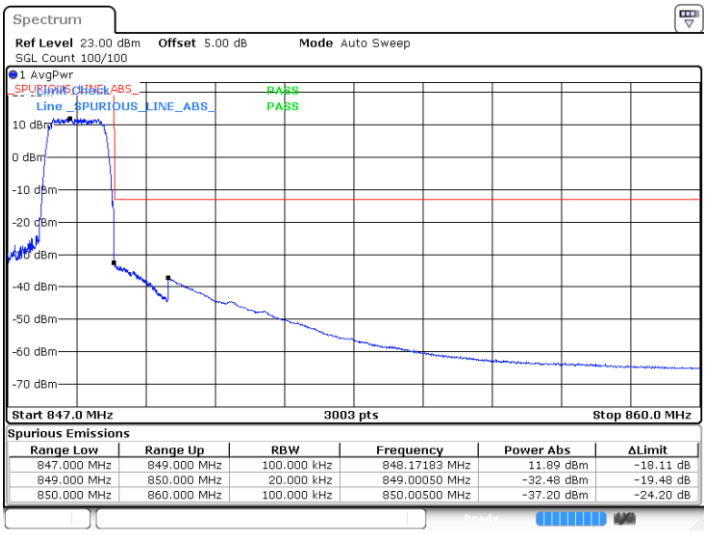
Date: 16.APR.2021 22:45:22

Lowest Band Edge / Full RB

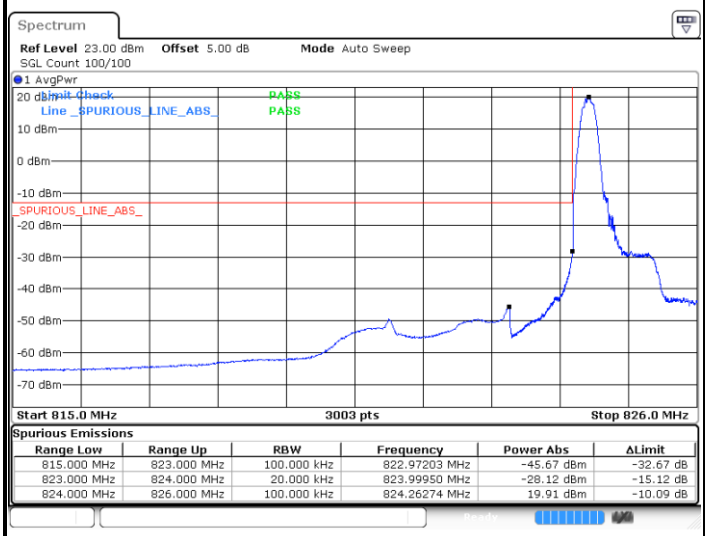
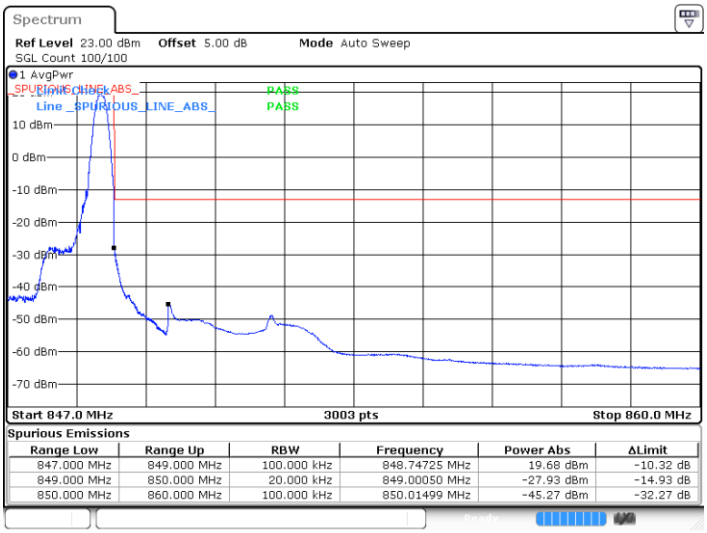
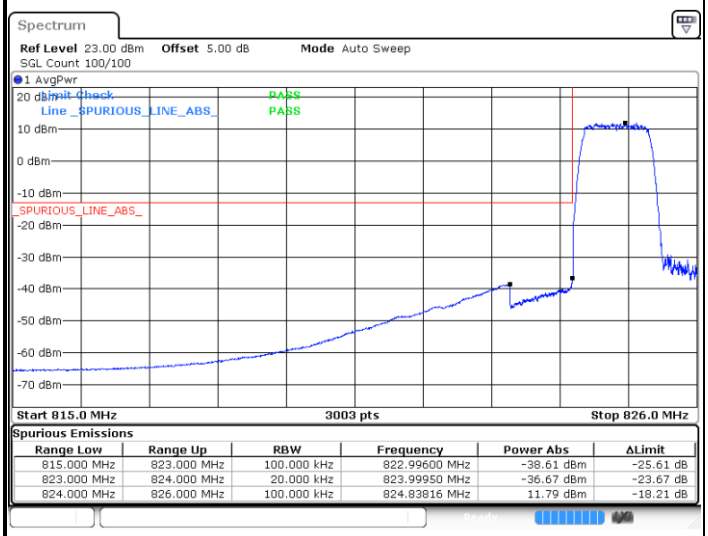
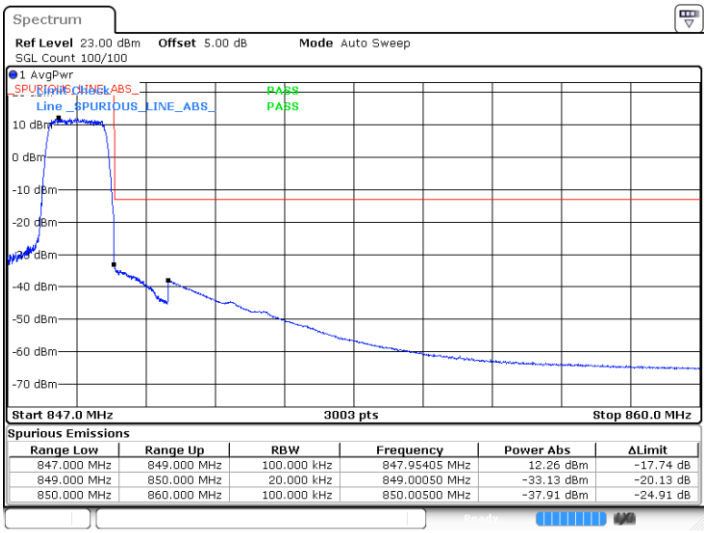


Date: 16.APR.2021 22:38:52

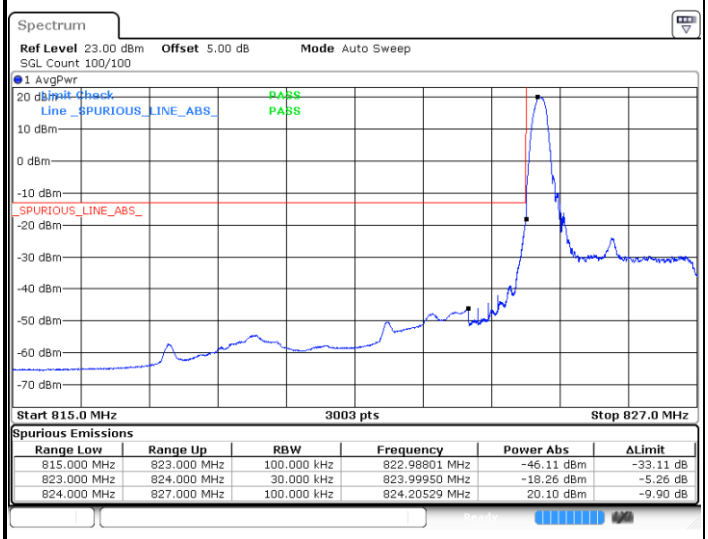
Highest Band Edge / Full RB



Date: 16.APR.2021 22:42:07

LTE Band 5 / 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 5 / 3MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1 RB**
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**



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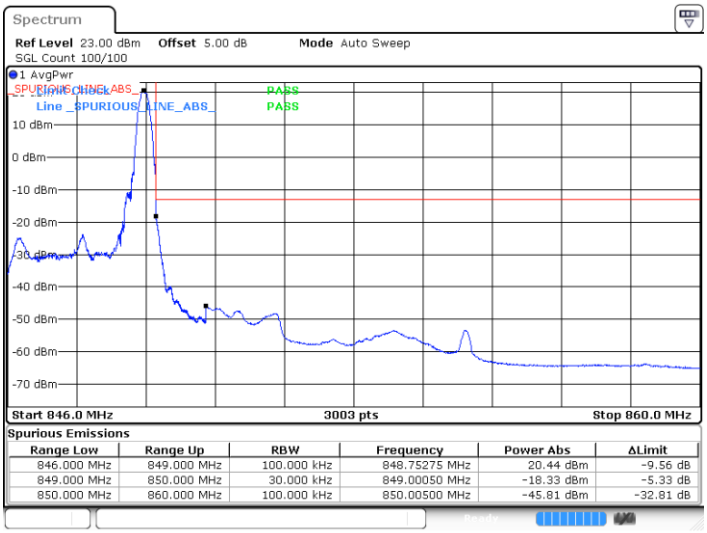

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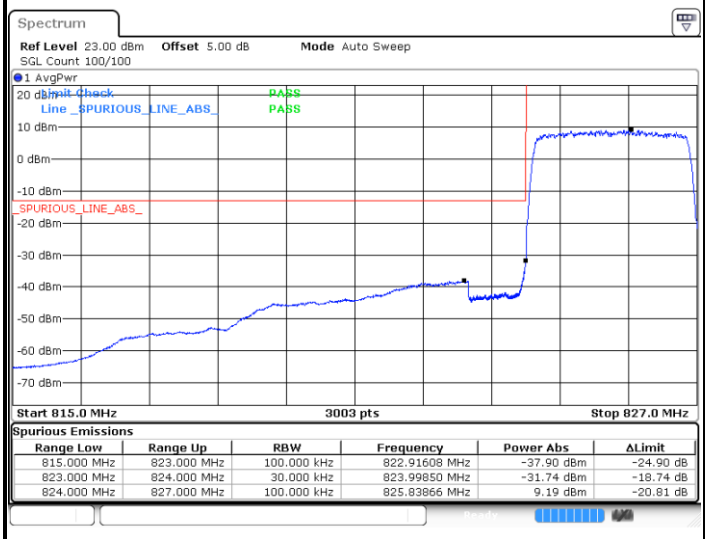

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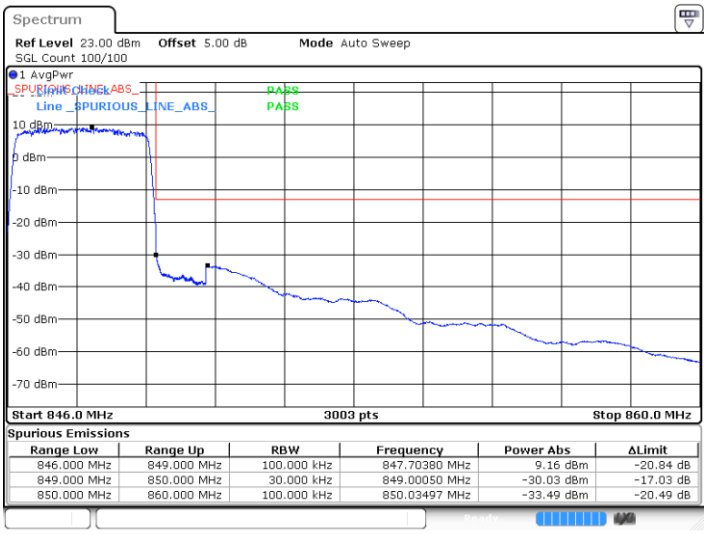
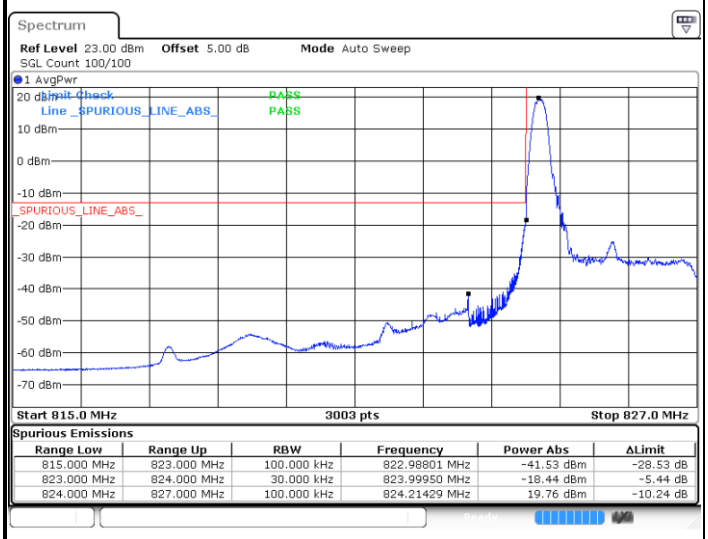


Date: 16.APR.2021 22:56:44

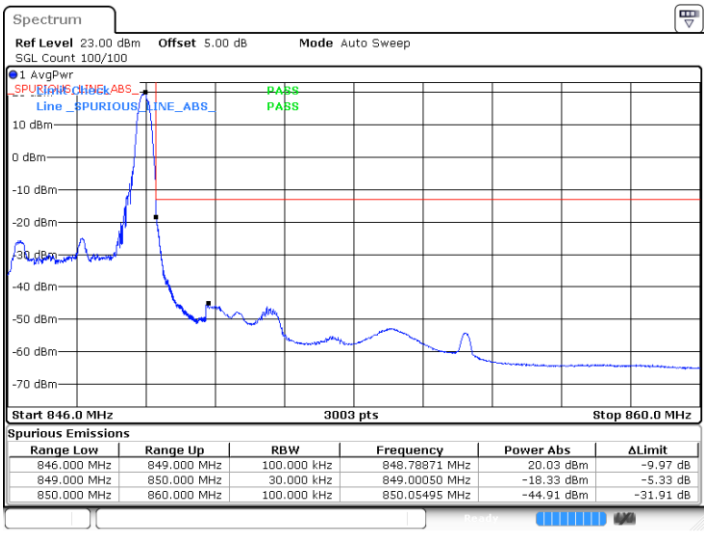
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



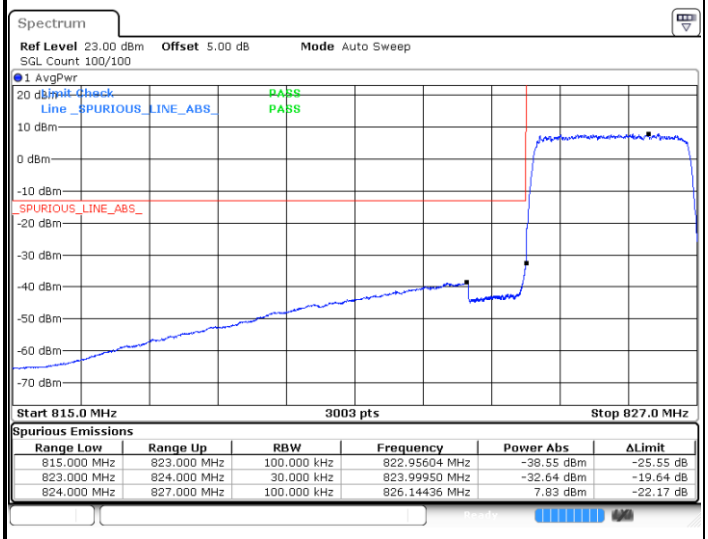
Date: 16.APR.2021 22:48:37

Highest Band Edge /1 RB



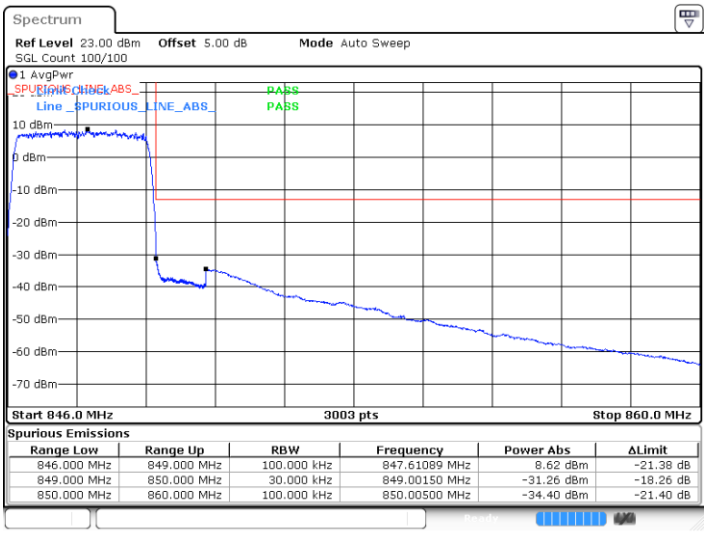
Date: 16.APR.2021 22:55:07

Lowest Band Edge / Full RB



Date: 16.APR.2021 22:51:52

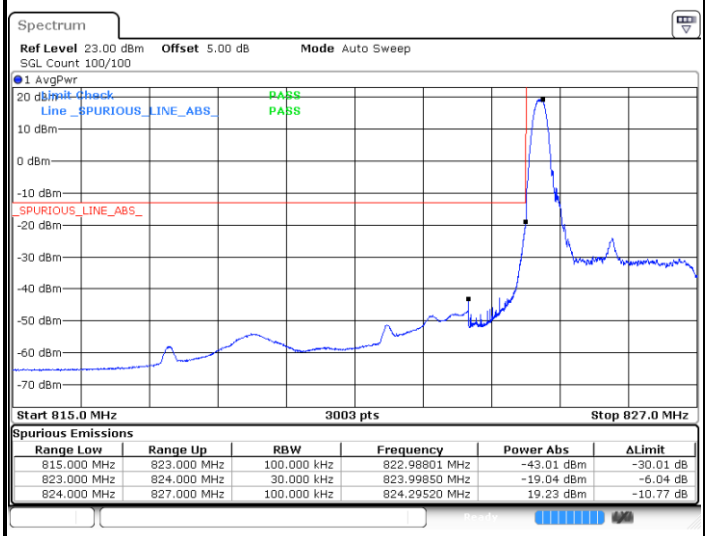
Highest Band Edge / Full RB



Date: 16.APR.2021 22:58:21

LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



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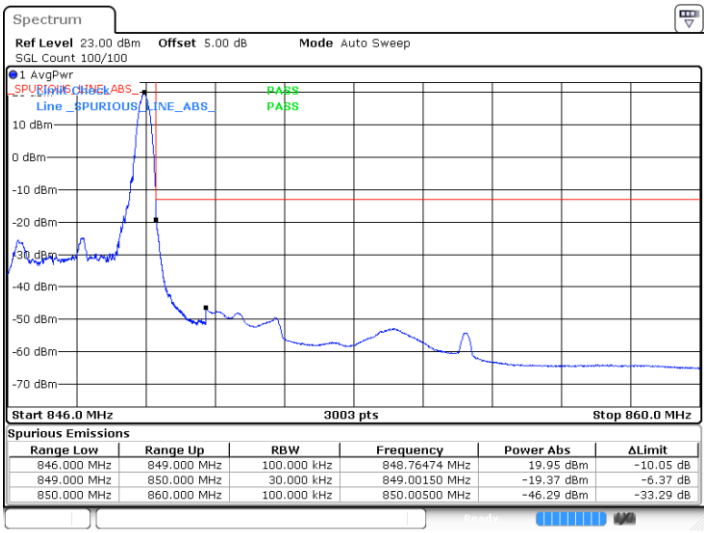
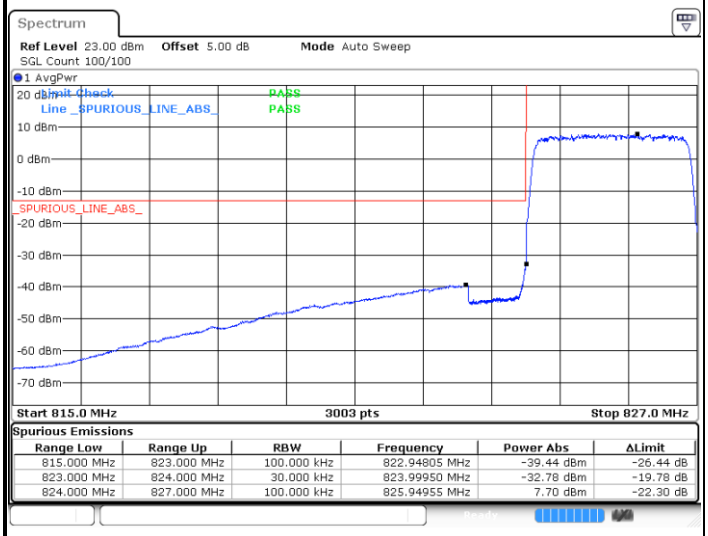
Highest Band Edge /1 RB



Date: 16.APR.2021 23:38:49

Lowest Band Edge / Full RB



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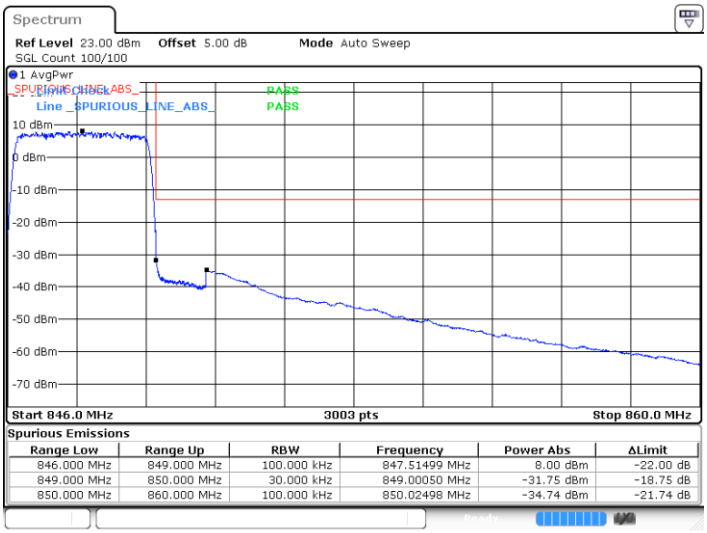
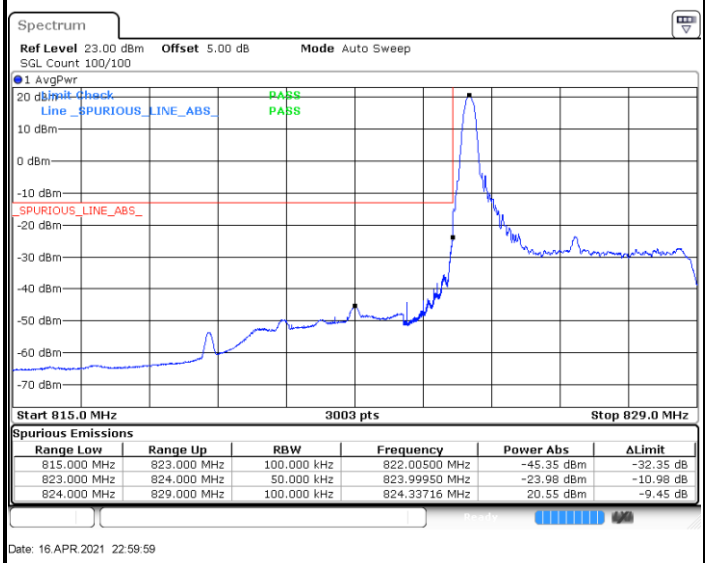
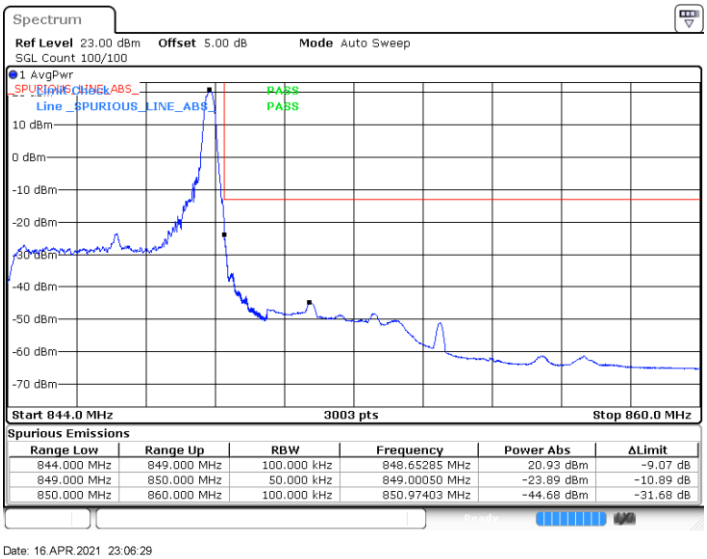
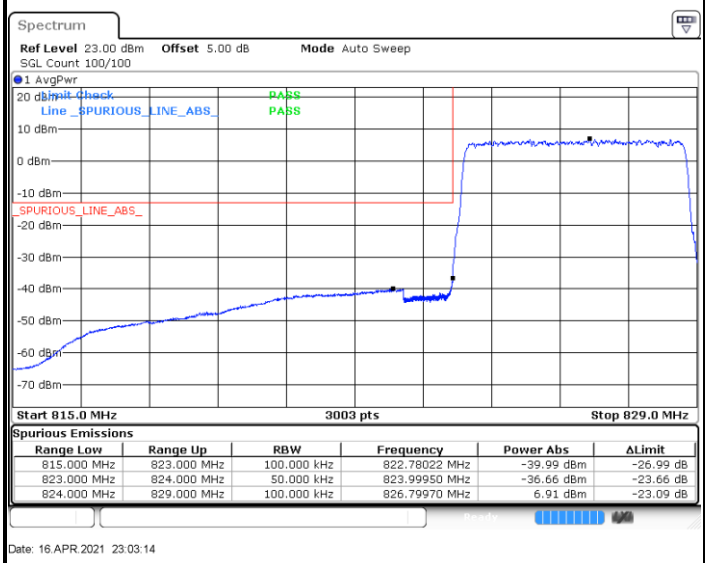
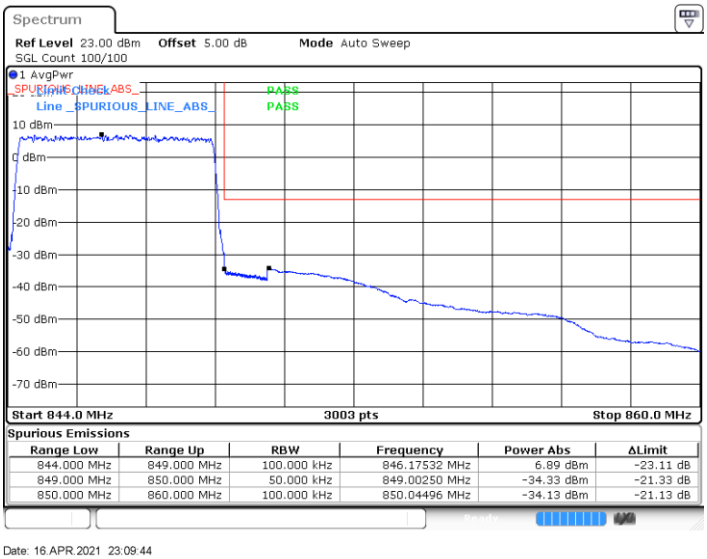
Highest Band Edge / Full RB

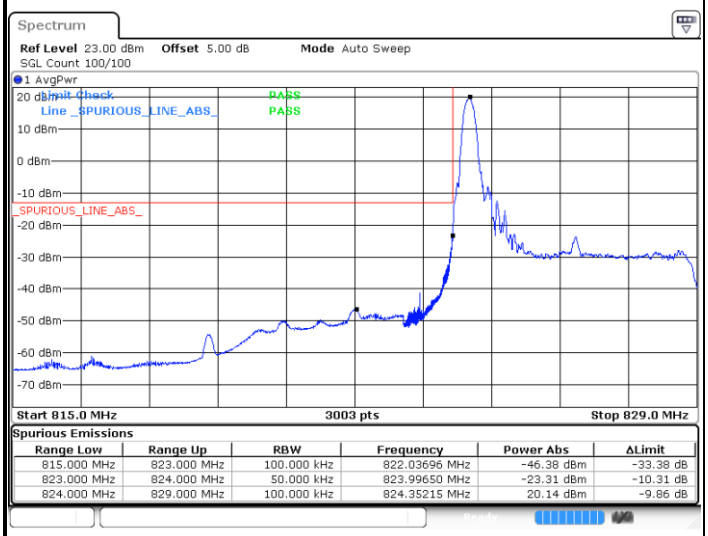


Date: 16.APR.2021 23:37:12

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**
	

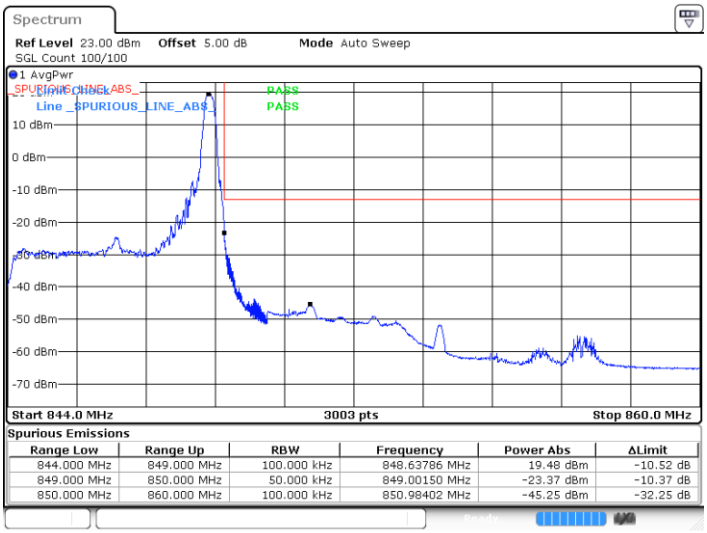
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



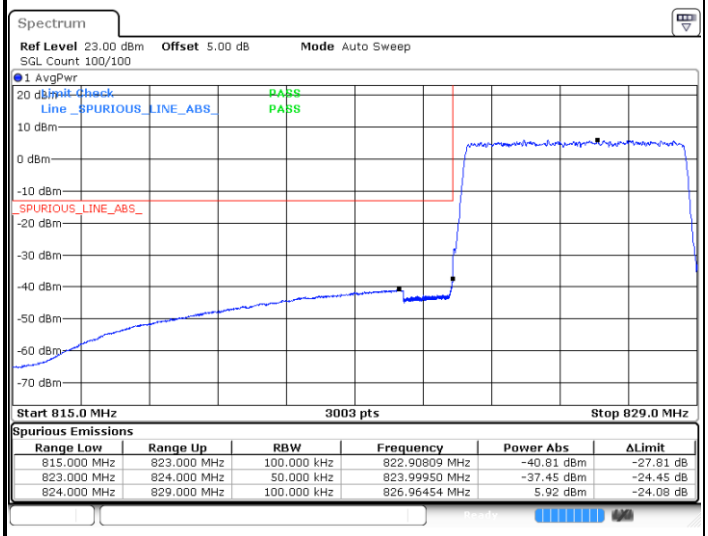
Date: 16.APR.2021 23:01:36

Highest Band Edge / 1 RB



Date: 16.APR.2021 23:08:06

Lowest Band Edge / Full RB



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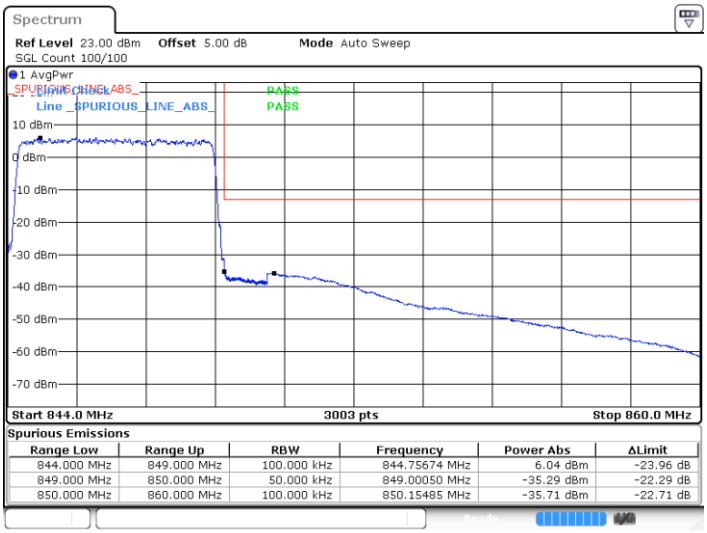
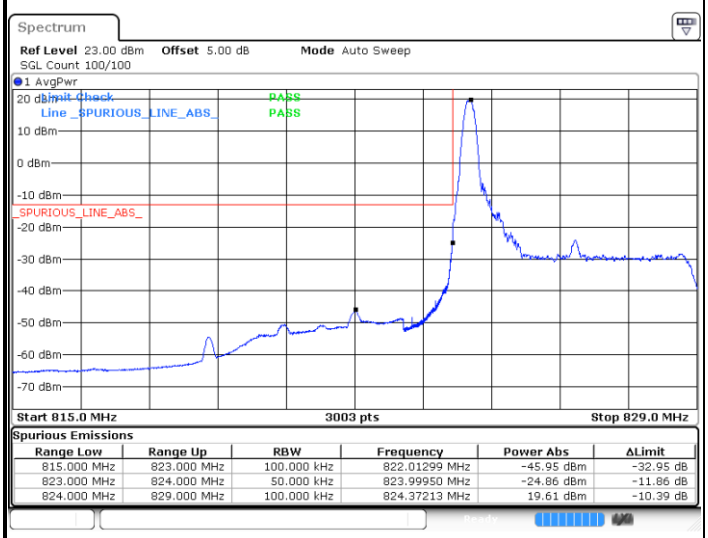
Highest Band Edge / Full RB



Date: 16.APR.2021 23:11:21

LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



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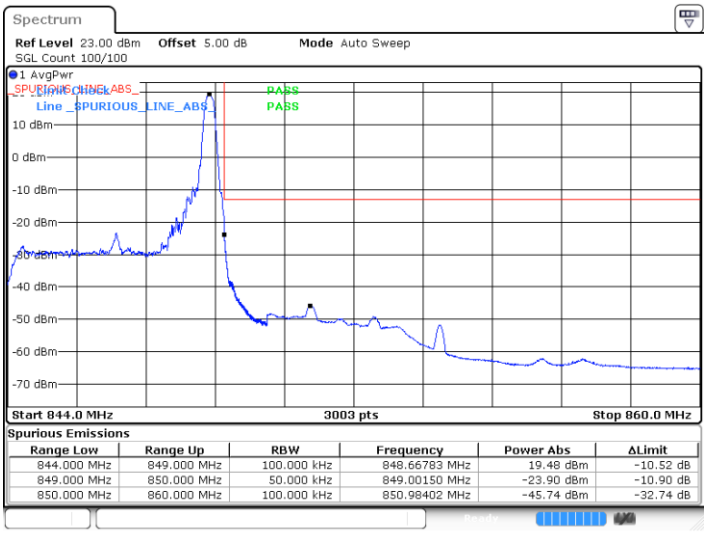
Highest Band Edge / 1 RB



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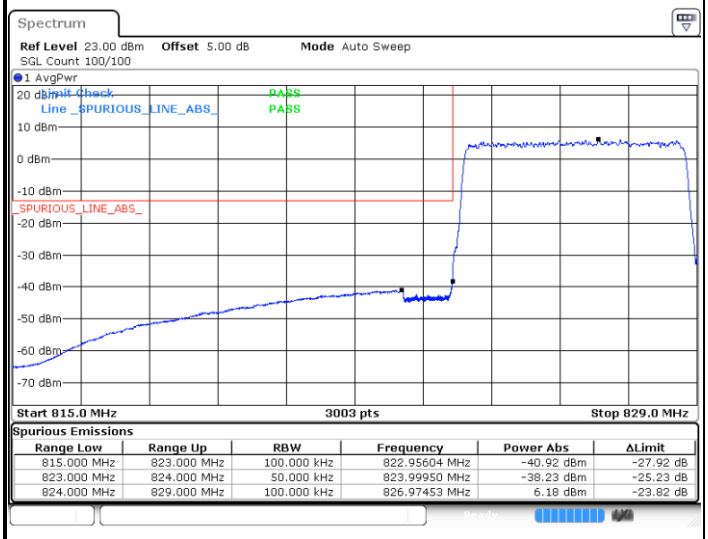
Lowest Band Edge / Full RB



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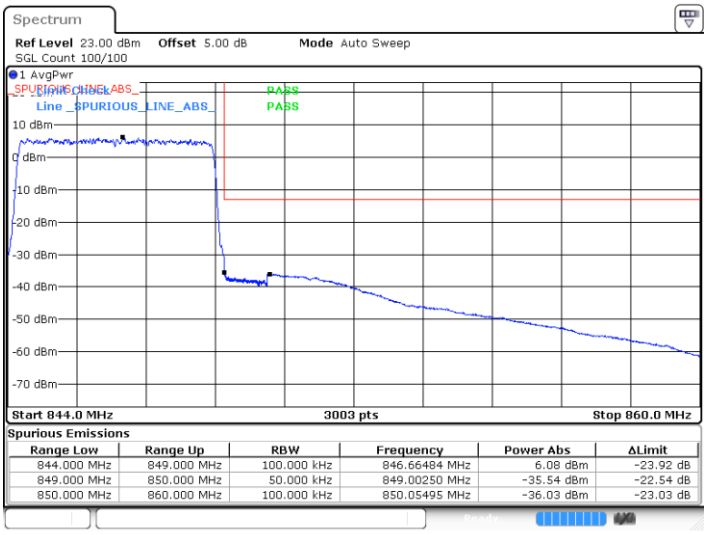
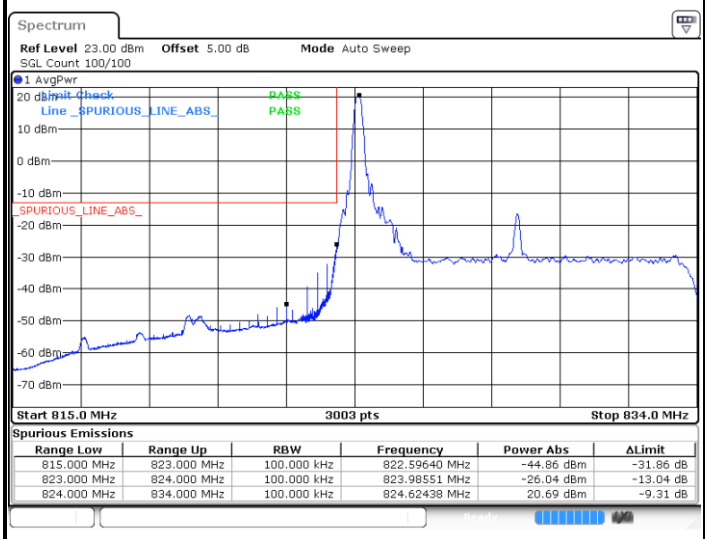
Highest Band Edge / Full RB



Date: 16.APR.2021 23:43:42

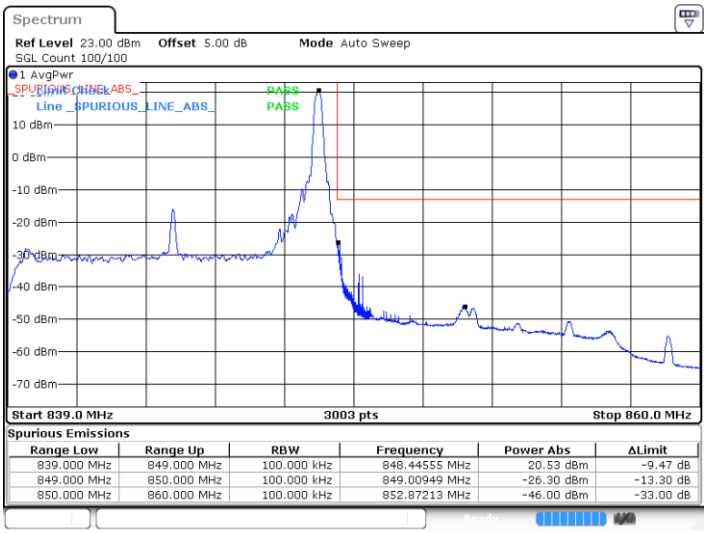
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



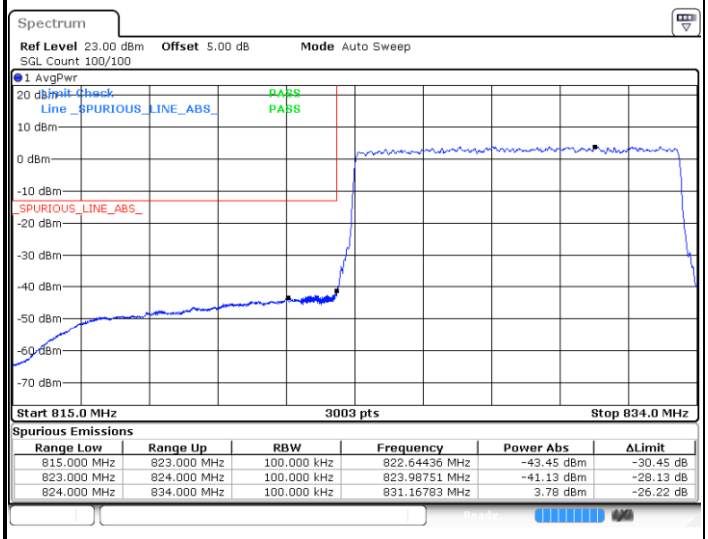
Date: 16.APR.2021 23:12:58

Highest Band Edge / 1 RB



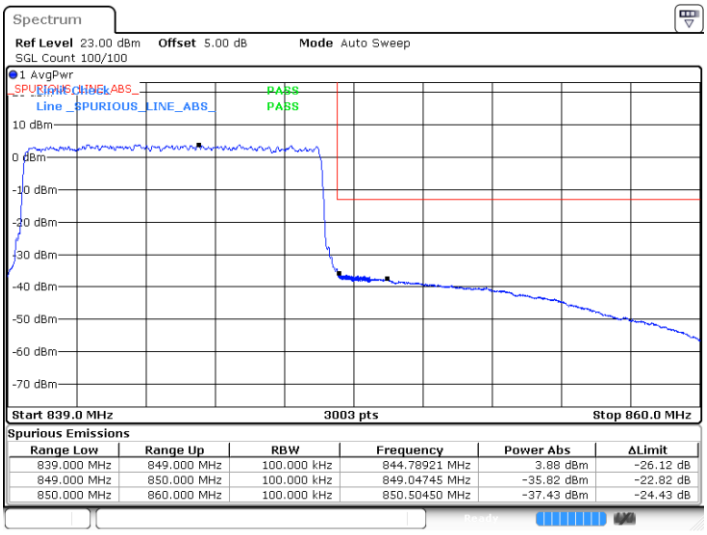
Date: 16.APR.2021 23:19:28

Lowest Band Edge / Full RB



Date: 16.APR.2021 23:16:13

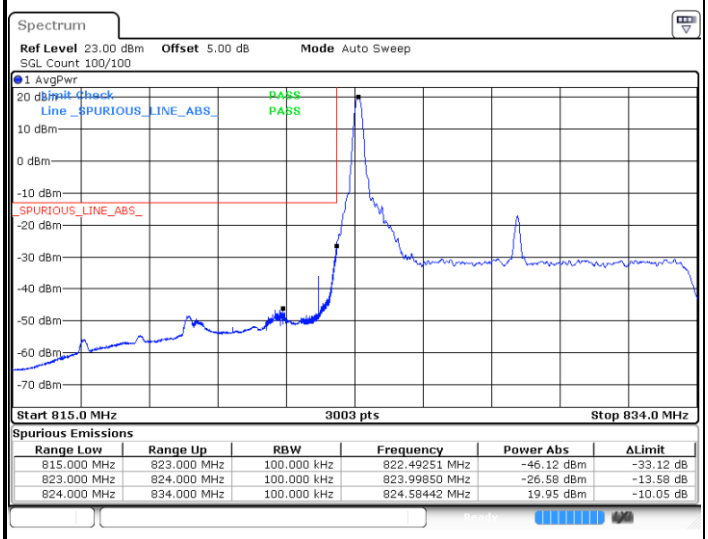
Highest Band Edge / Full RB



Date: 16.APR.2021 23:22:43

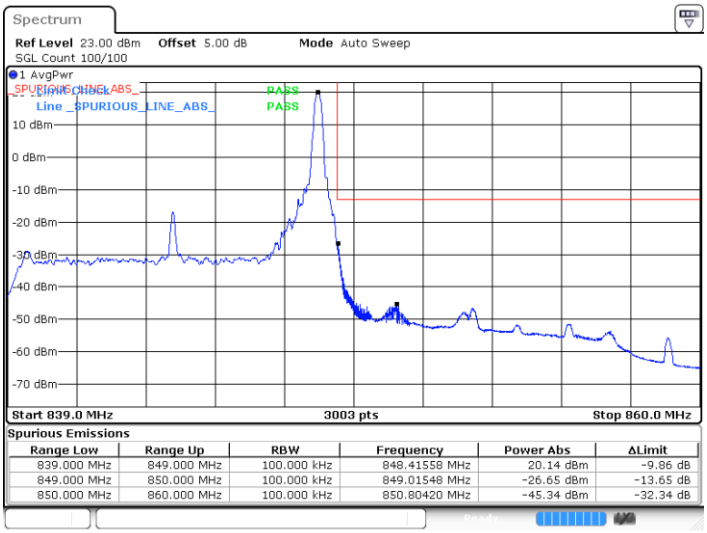
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



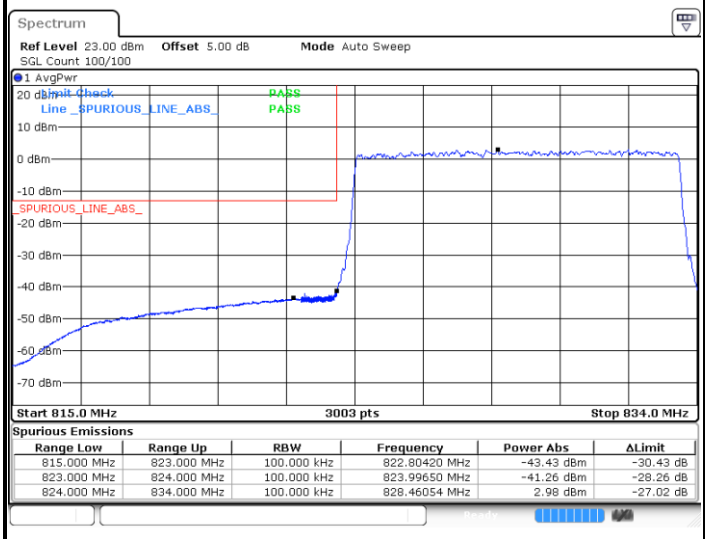
Date: 16.APR.2021 23:14:36

Highest Band Edge / 1 RB



Date: 16.APR.2021 23:21:06

Lowest Band Edge / Full RB



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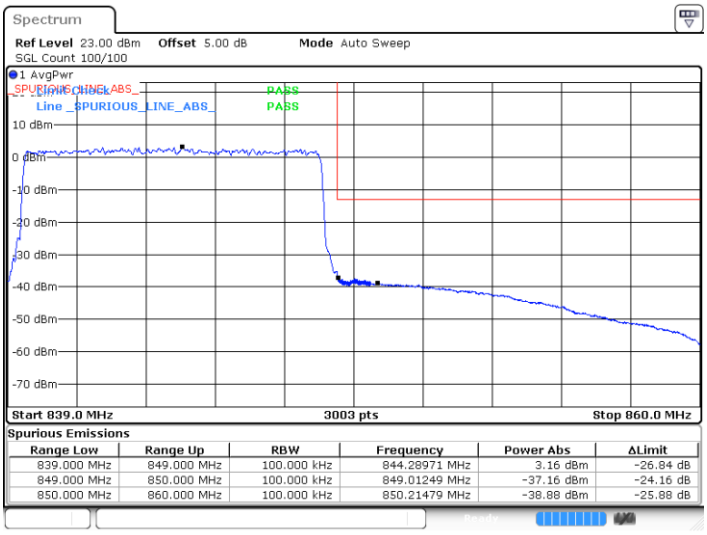
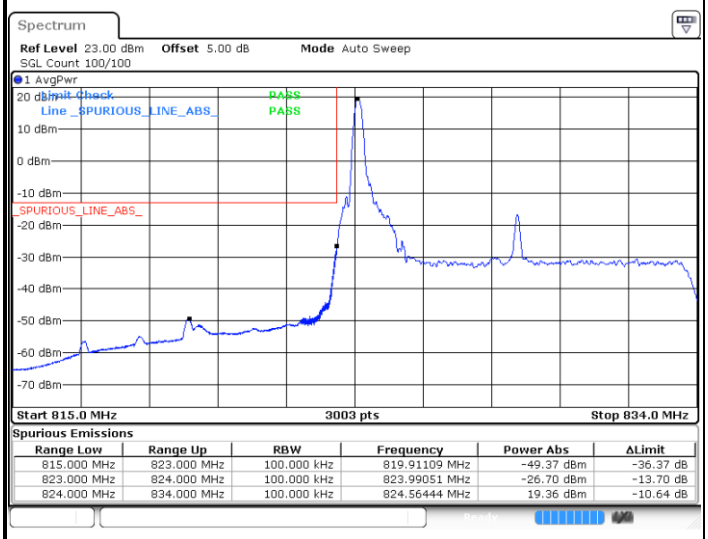
Highest Band Edge / Full RB



Date: 16.APR.2021 23:24:21

LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



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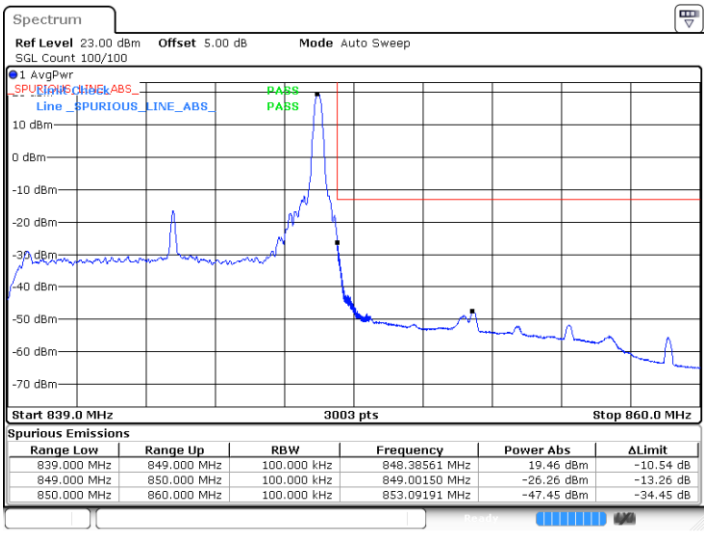
Highest Band Edge / 1 RB



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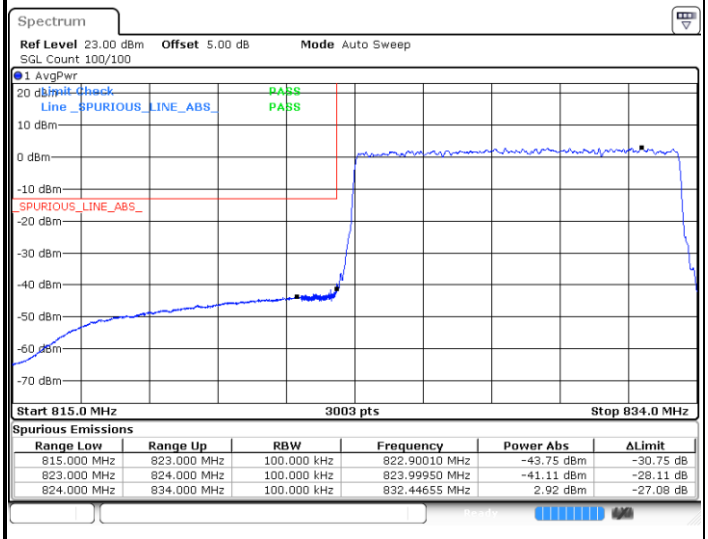
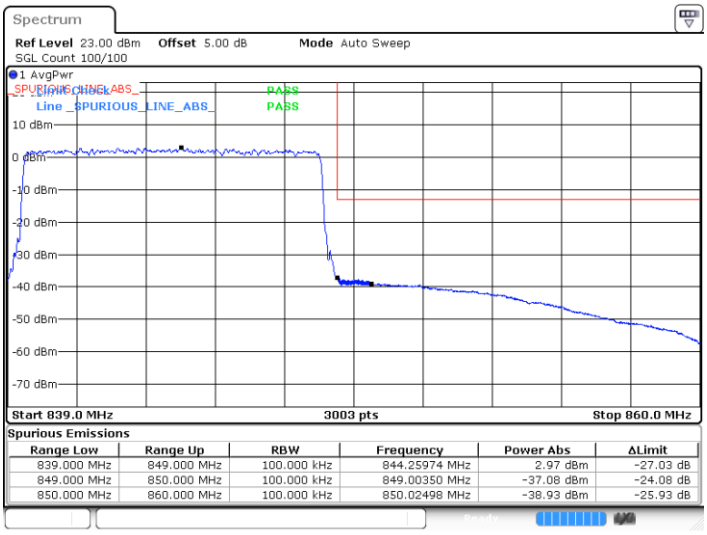
Lowest Band Edge / Full RB



Date: 16.APR.2021 23:48:04

Highest Band Edge / Full RB

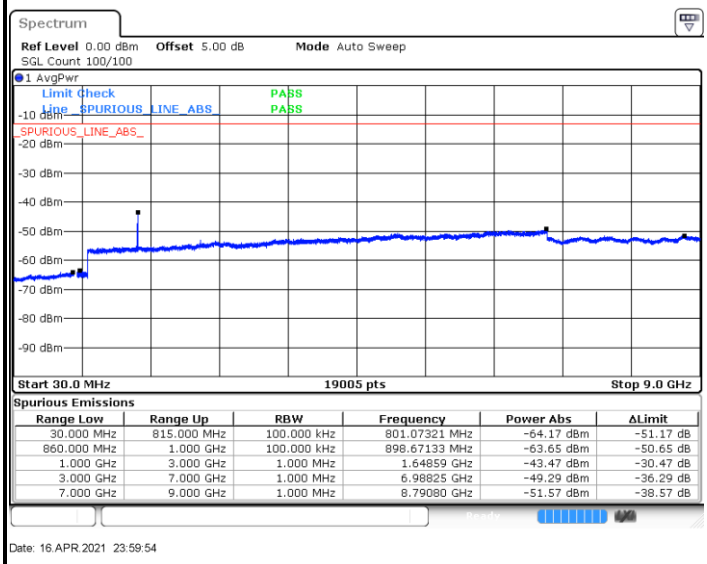


Date: 16.APR.2021 23:51:19

Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	801.07321 MHz	-64.17 dBm	-51.17 dB
860.000 MHz	1.000 GHz	100.000 kHz	898.67133 MHz	-63.65 dBm	-50.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64859 GHz	-43.47 dBm	-30.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98825 GHz	-49.29 dBm	-36.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.79080 GHz	-51.57 dBm	-38.57 dB

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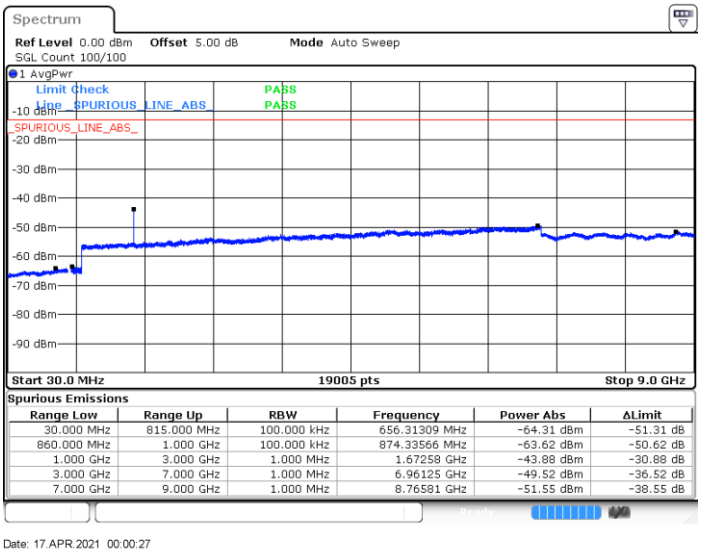
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	656.31309 MHz	-64.31 dBm	-51.31 dB
860.000 MHz	1.000 GHz	100.000 kHz	874.33566 MHz	-63.62 dBm	-50.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67258 GHz	-43.88 dBm	-30.88 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96125 GHz	-49.52 dBm	-36.52 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.76581 GHz	-51.55 dBm	-38.55 dB

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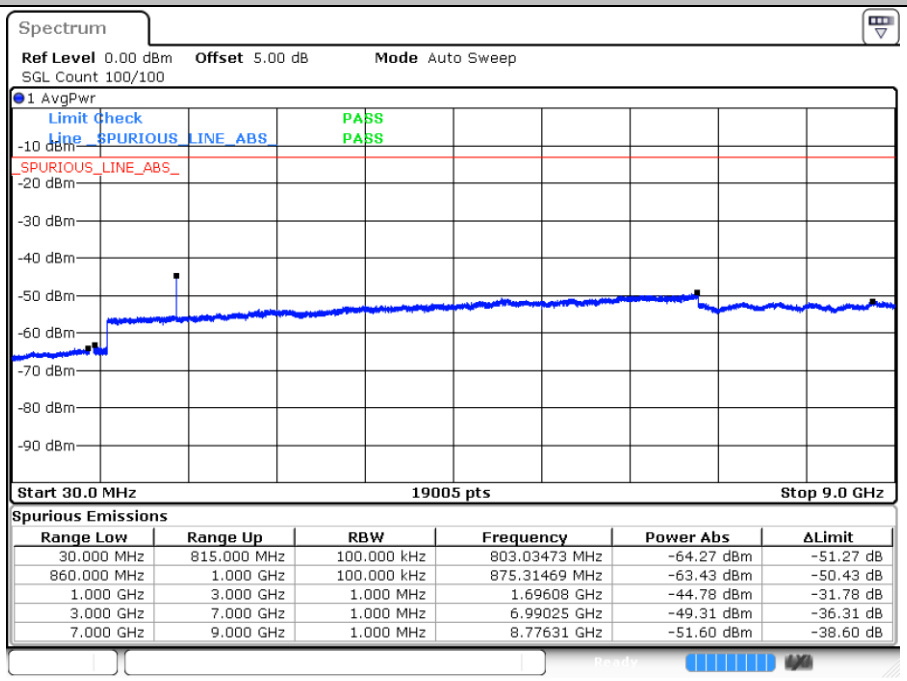
Highest Channel / QPSK



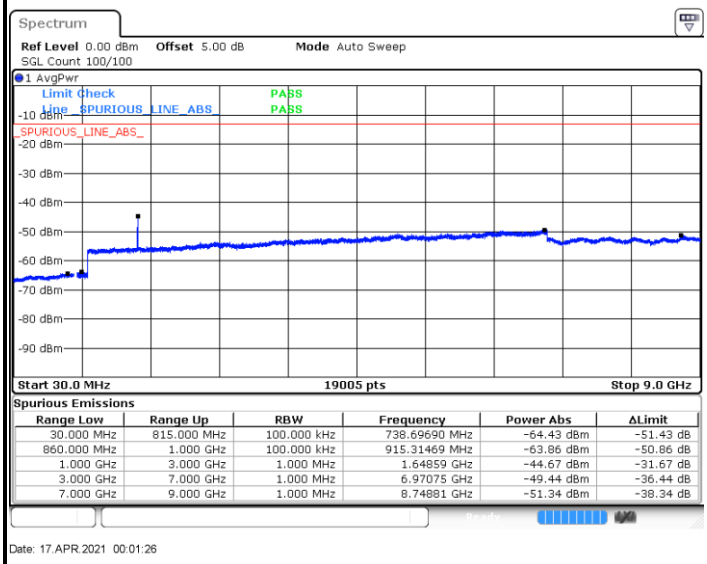
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	803.03473 MHz	-64.27 dBm	-51.27 dB
860.000 MHz	1.000 GHz	100.000 kHz	875.31469 MHz	-63.43 dBm	-50.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69608 GHz	-44.78 dBm	-31.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99025 GHz	-49.31 dBm	-36.31 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.77631 GHz	-51.60 dBm	-38.60 dB

Date: 17.APR.2021 00:00:53

LTE Band 5 / 3MHz

Lowest Channel / QPSK

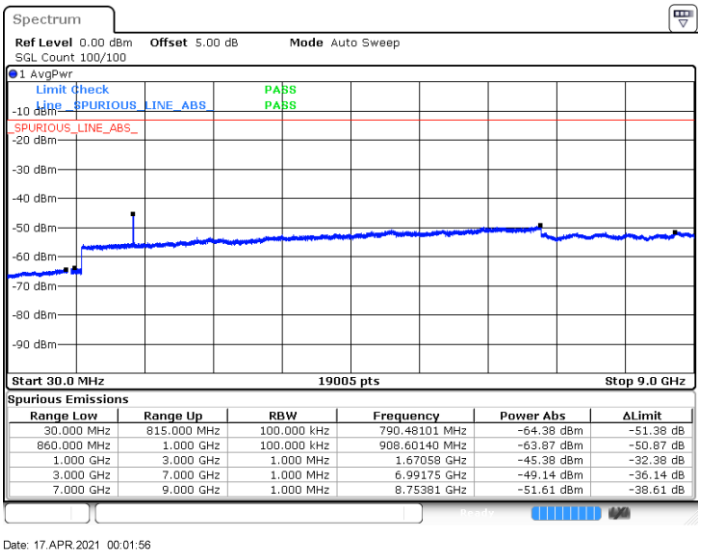


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	738.69690 MHz	-64.43 dBm	-51.43 dB
860.000 MHz	1.000 GHz	100.000 kHz	915.31469 MHz	-63.86 dBm	-50.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64859 GHz	-44.67 dBm	-31.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97075 GHz	-49.44 dBm	-36.44 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.74881 GHz	-51.34 dBm	-38.34 dB

Date: 17.APR.2021 00:01:26

Middle Channel / QPSK

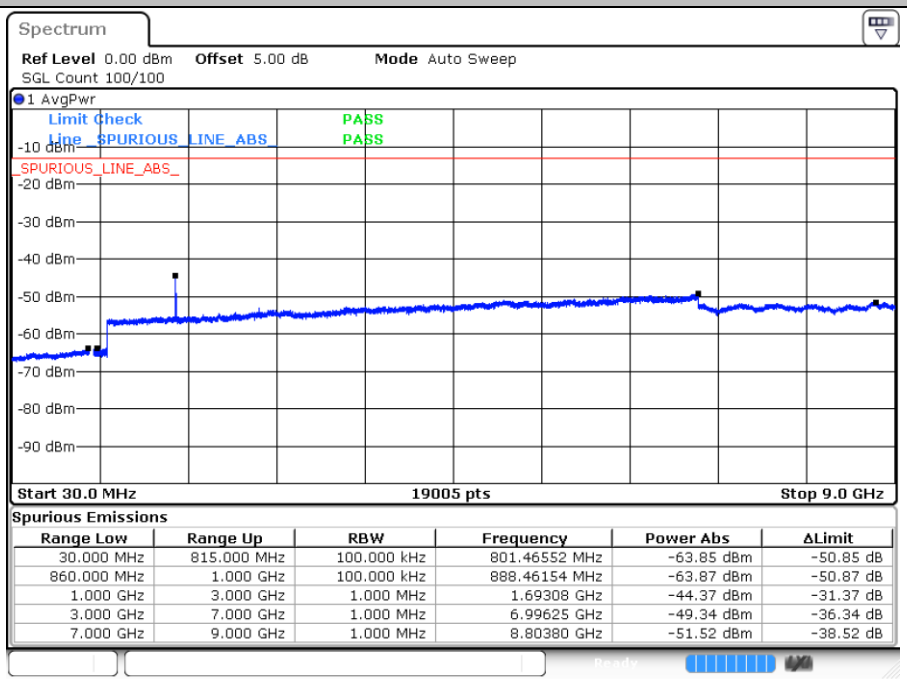


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	790.48101 MHz	-64.38 dBm	-51.38 dB
860.000 MHz	1.000 GHz	100.000 kHz	908.60140 MHz	-63.87 dBm	-50.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67058 GHz	-45.38 dBm	-32.38 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99175 GHz	-49.14 dBm	-36.14 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.75381 GHz	-51.61 dBm	-38.61 dB

Date: 17.APR.2021 00:01:56

Highest Channel / QPSK



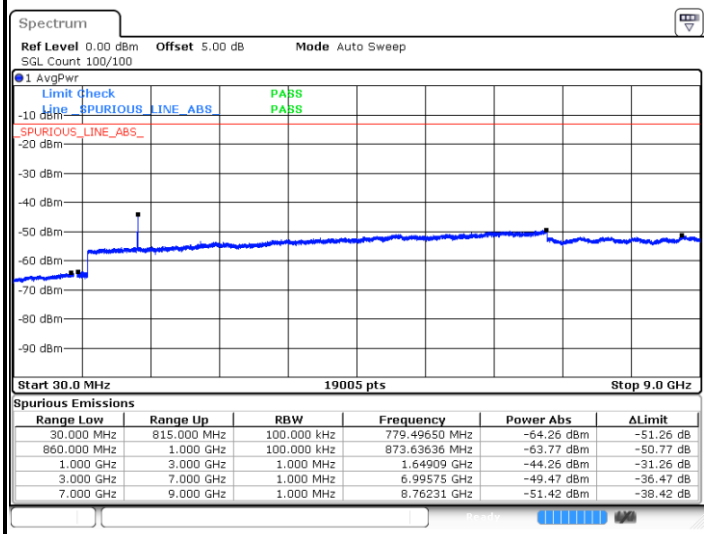
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	801.46552 MHz	-63.85 dBm	-50.85 dB
860.000 MHz	1.000 GHz	100.000 kHz	888.46154 MHz	-63.87 dBm	-50.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.69308 GHz	-44.37 dBm	-31.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-49.34 dBm	-36.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.80380 GHz	-51.52 dBm	-38.52 dB

Date: 17.APR.2021 00:02:23

LTE Band 5 / 5MHz

Lowest Channel / QPSK

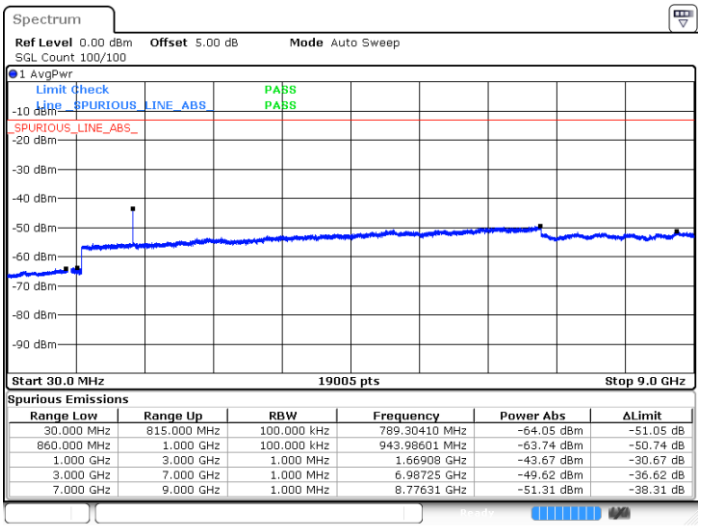


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	779.49650 MHz	-64.26 dBm	-51.26 dB
860.000 MHz	1.000 GHz	100.000 kHz	873.63636 MHz	-63.77 dBm	-50.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64909 GHz	-44.26 dBm	-31.26 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-49.47 dBm	-36.47 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.76231 GHz	-51.42 dBm	-38.42 dB

Date: 17.APR.2021 00:03:00

Middle Channel / QPSK

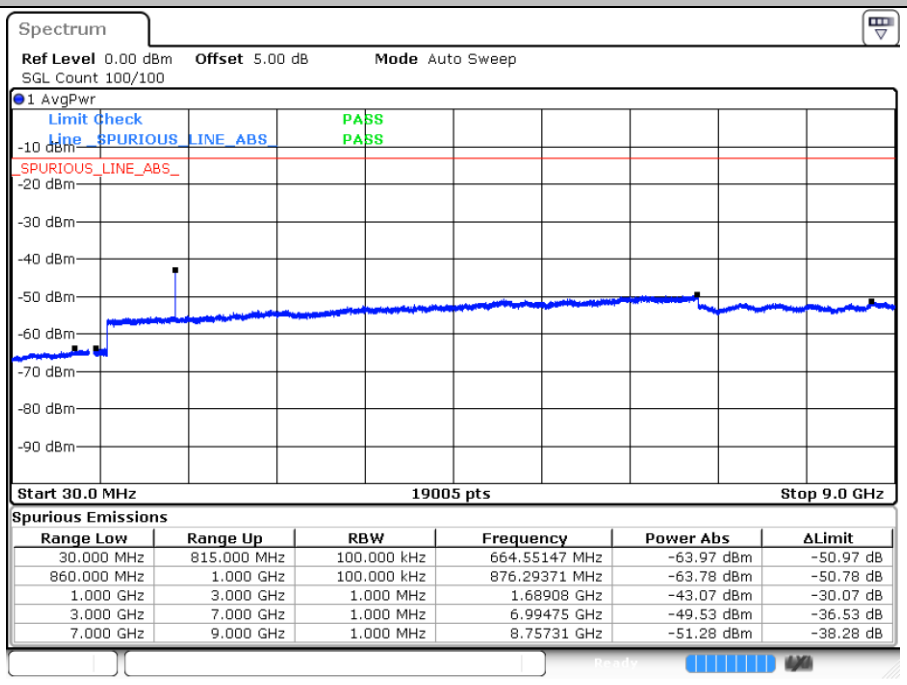


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	789.30410 MHz	-64.05 dBm	-51.05 dB
860.000 MHz	1.000 GHz	100.000 kHz	943.98601 MHz	-63.74 dBm	-50.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66908 GHz	-43.67 dBm	-30.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98725 GHz	-49.62 dBm	-36.62 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.77631 GHz	-51.31 dBm	-38.31 dB

Date: 17.APR.2021 00:03:26

Highest Channel / QPSK



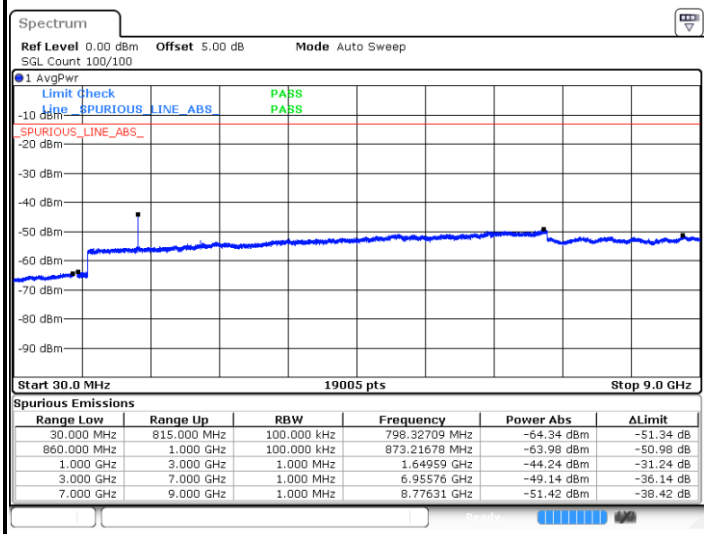
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	664.55147 MHz	-63.97 dBm	-50.97 dB
860.000 MHz	1.000 GHz	100.000 kHz	876.29371 MHz	-63.78 dBm	-50.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.68908 GHz	-43.07 dBm	-30.07 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99475 GHz	-49.53 dBm	-36.53 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.75731 GHz	-51.28 dBm	-38.28 dB

Date: 17.APR.2021 00:03:52

LTE Band 5 / 10MHz

Lowest Channel / QPSK

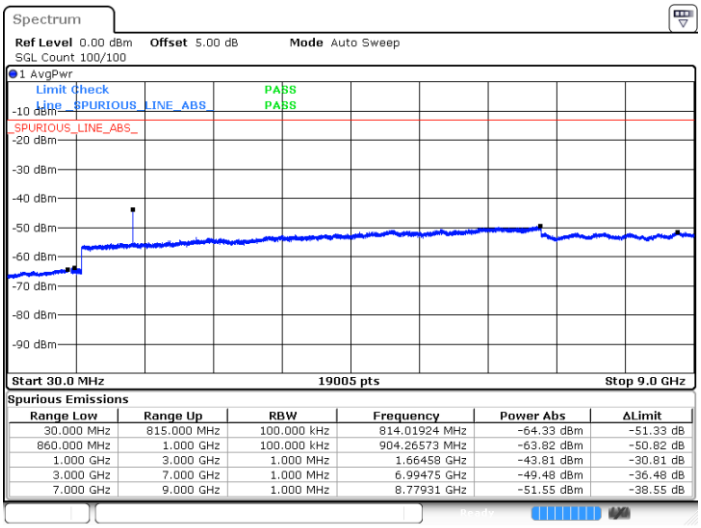


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	798.32709 MHz	-64.34 dBm	-51.34 dB
860.000 MHz	1.000 GHz	100.000 kHz	873.21678 MHz	-63.98 dBm	-50.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64959 GHz	-44.24 dBm	-31.24 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95576 GHz	-49.14 dBm	-36.14 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.77631 GHz	-51.42 dBm	-38.42 dB

Date: 17.APR.2021 00:04:20

Middle Channel / QPSK

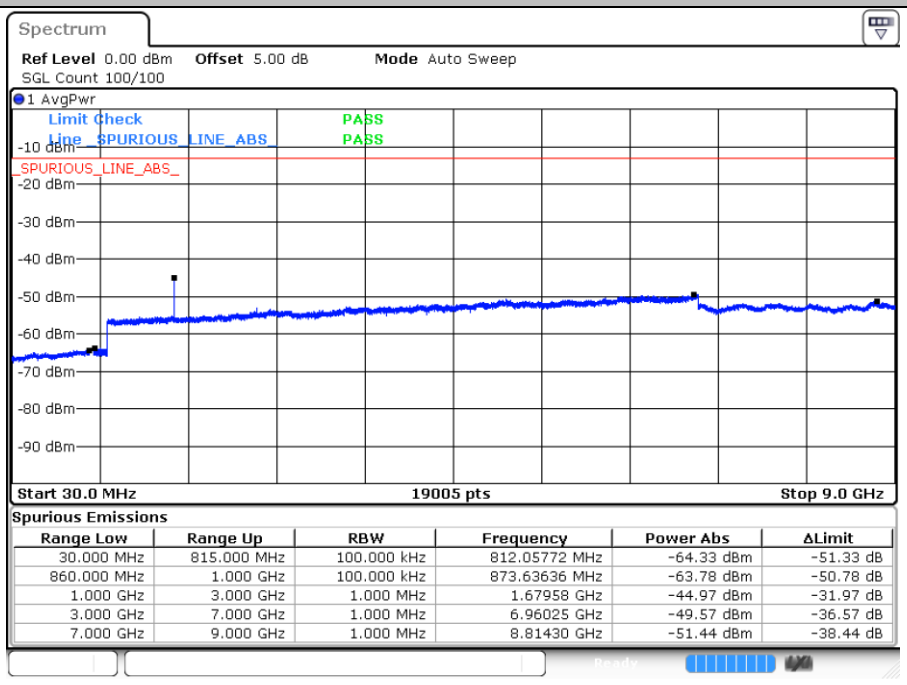


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.01924 MHz	-64.33 dBm	-51.33 dB
860.000 MHz	1.000 GHz	100.000 kHz	904.26573 MHz	-63.82 dBm	-50.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.66458 GHz	-43.81 dBm	-30.81 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99475 GHz	-49.48 dBm	-36.48 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.77931 GHz	-51.55 dBm	-38.55 dB

Date: 17.APR.2021 00:04:46

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	812.05772 MHz	-64.33 dBm	-51.33 dB
860.000 MHz	1.000 GHz	100.000 kHz	873.63636 MHz	-63.78 dBm	-50.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.67958 GHz	-44.97 dBm	-31.97 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96025 GHz	-49.57 dBm	-36.57 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.81430 GHz	-51.44 dBm	-38.44 dB

Date: 17.APR.2021 00:05:12

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	0.0042	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0047	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.

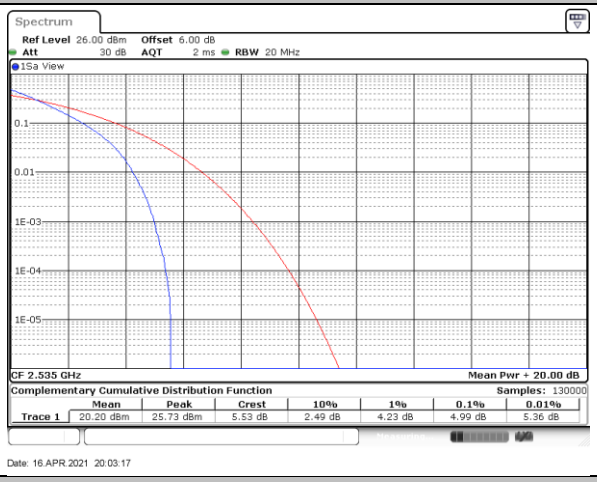
LTE Band 7

Peak-to-Average Ratio

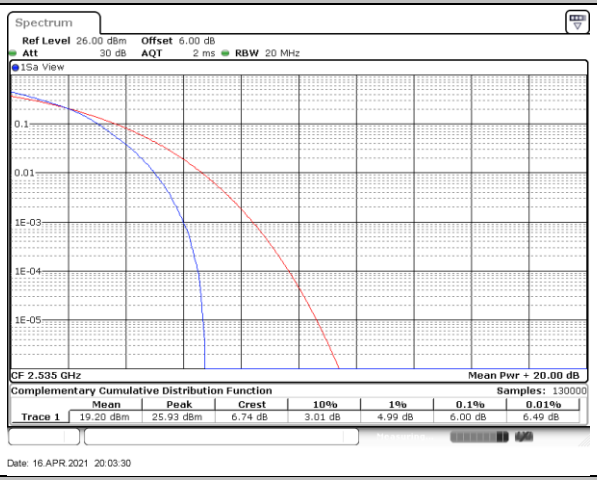
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.99	6.00	5.97	PASS

LTE Band 7 / 20MHz

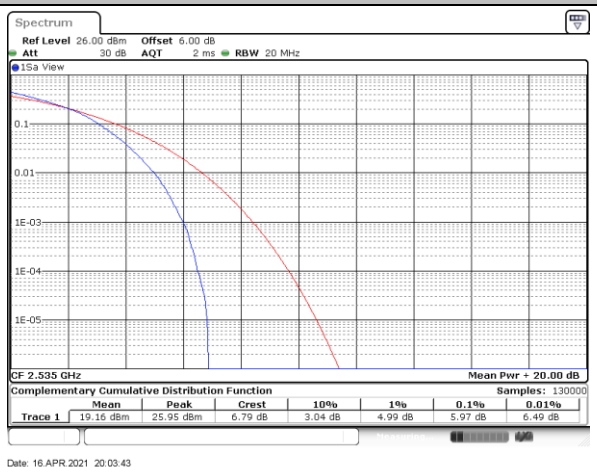
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

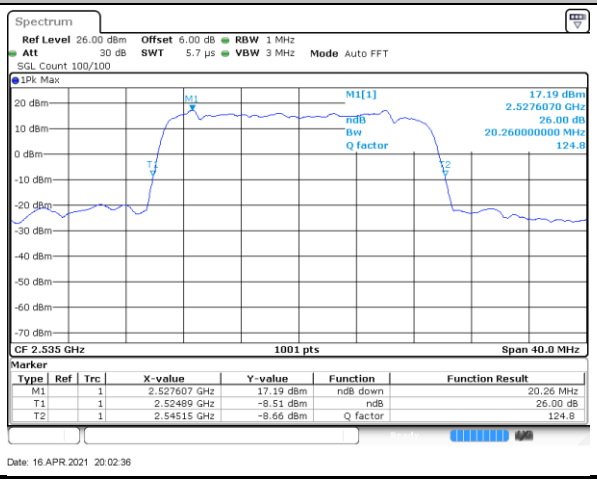


26dB Bandwidth

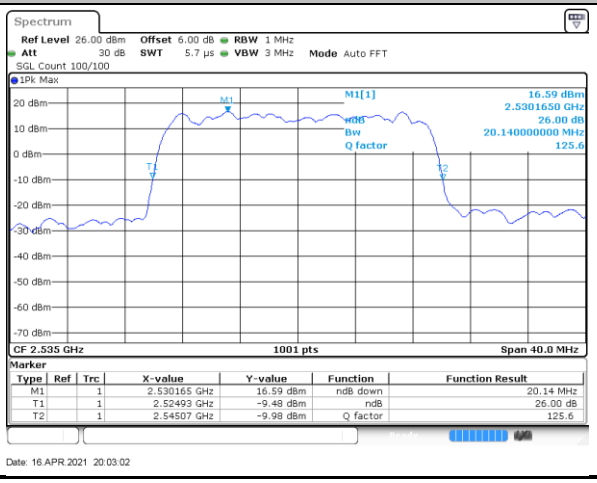
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.26	20.14

LTE Band 7

Middle Channel / 20MHz / QPSK



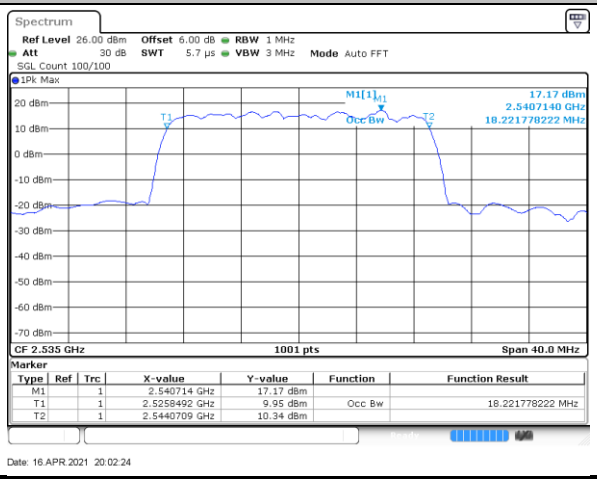
Middle Channel / 20MHz / 16QAM

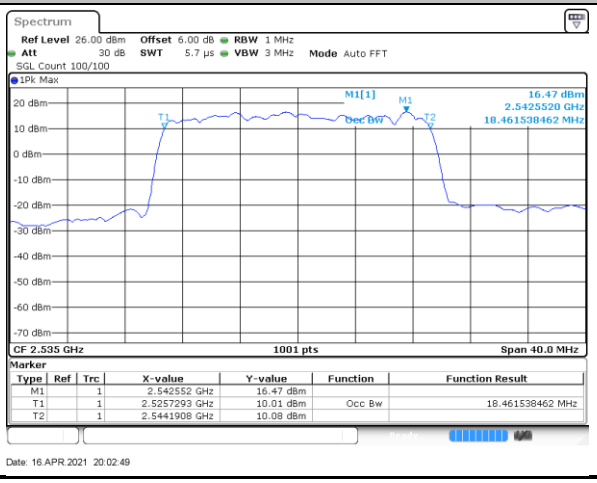


Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.22	18.46

LTE Band 7	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM

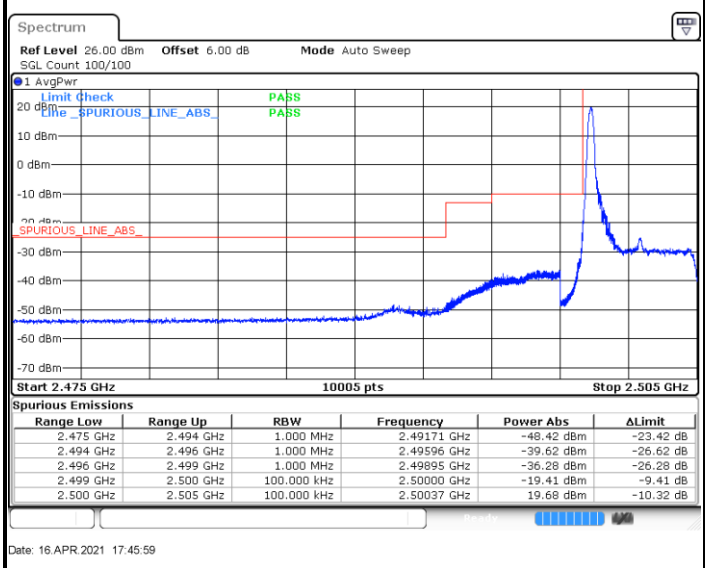




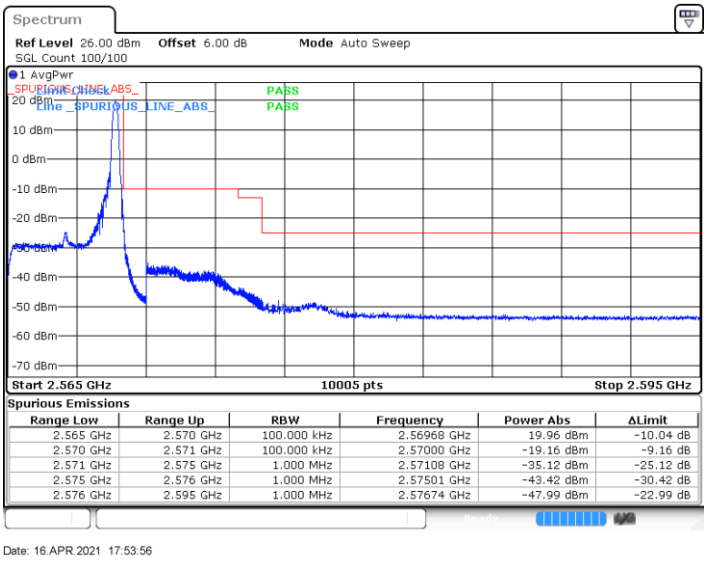
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

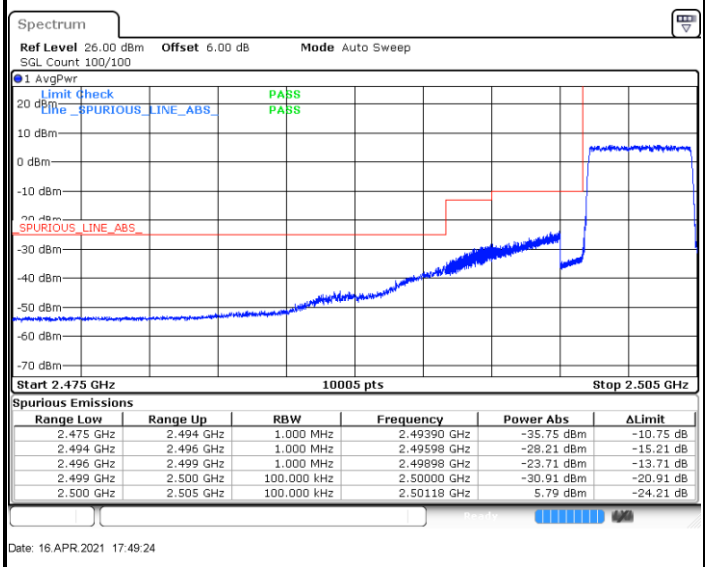
Lowest Band Edge / 1 RB



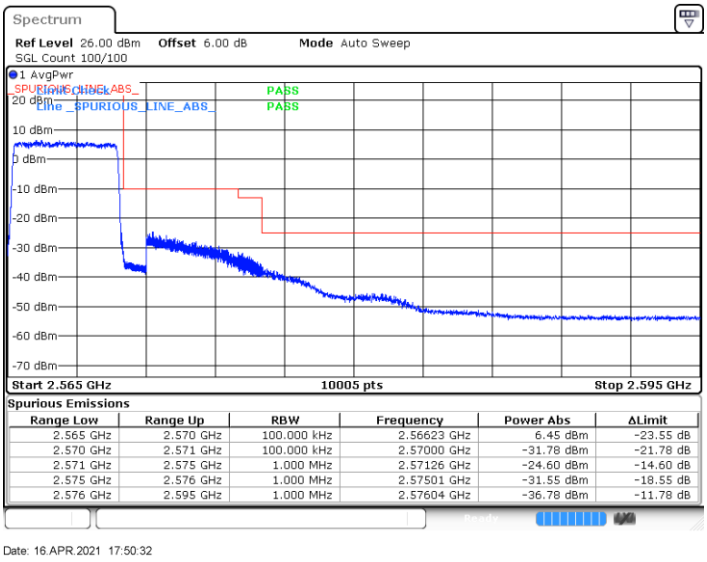
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

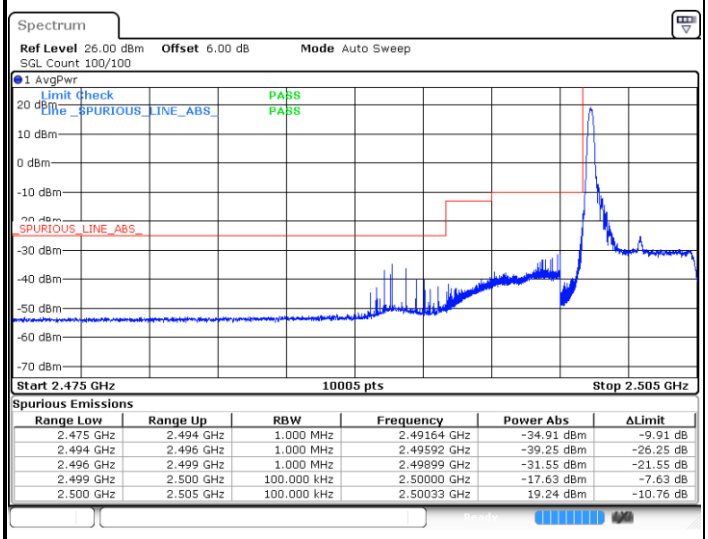


Highest Band Edge / Full RB



LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB

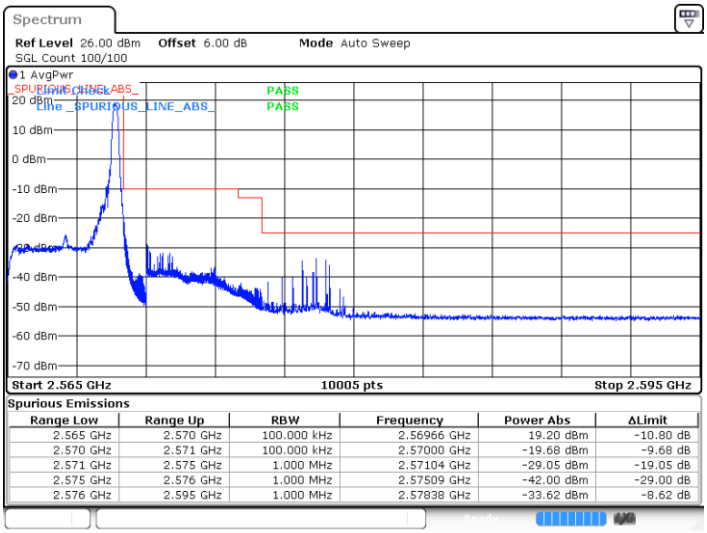


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49164 GHz	-34.91 dBm	-9.91 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49592 GHz	-39.25 dBm	-26.25 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-31.55 dBm	-21.55 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-17.63 dBm	-7.63 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50033 GHz	19.24 dBm	-10.76 dB

Date: 16.APR.2021 17:47:08

Highest Band Edge / 1 RB

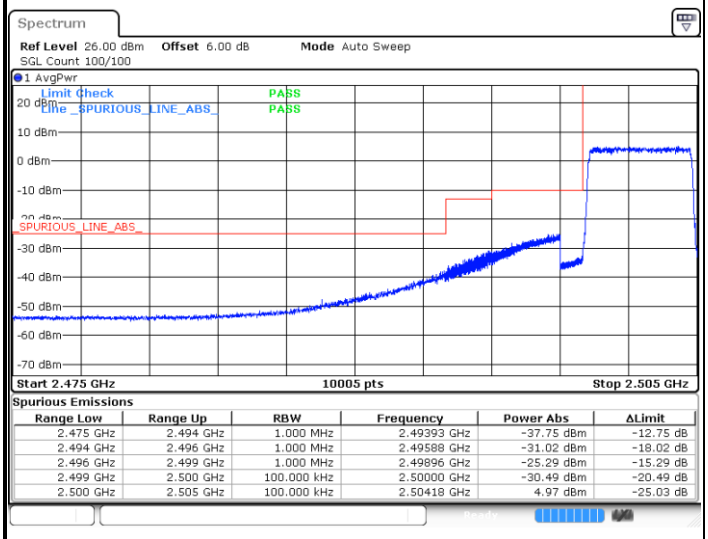


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56966 GHz	19.20 dBm	-10.80 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-19.68 dBm	-9.68 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57104 GHz	-29.05 dBm	-19.05 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57509 GHz	-42.00 dBm	-29.00 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57838 GHz	-33.62 dBm	-8.62 dB

Date: 16.APR.2021 17:52:48

Lowest Band Edge / Full RB

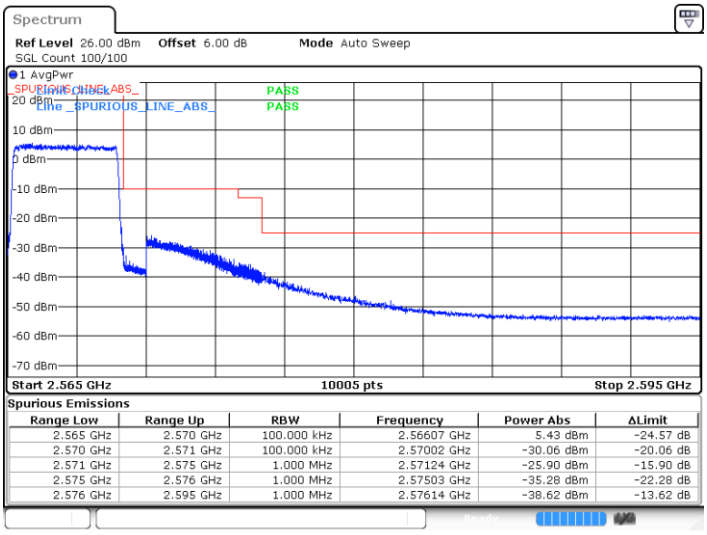


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49393 GHz	-37.75 dBm	-12.75 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49588 GHz	-31.02 dBm	-18.02 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49896 GHz	-25.29 dBm	-15.29 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-30.49 dBm	-20.49 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50418 GHz	4.97 dBm	-25.03 dB

Date: 16.APR.2021 17:48:16

Highest Band Edge / Full RB



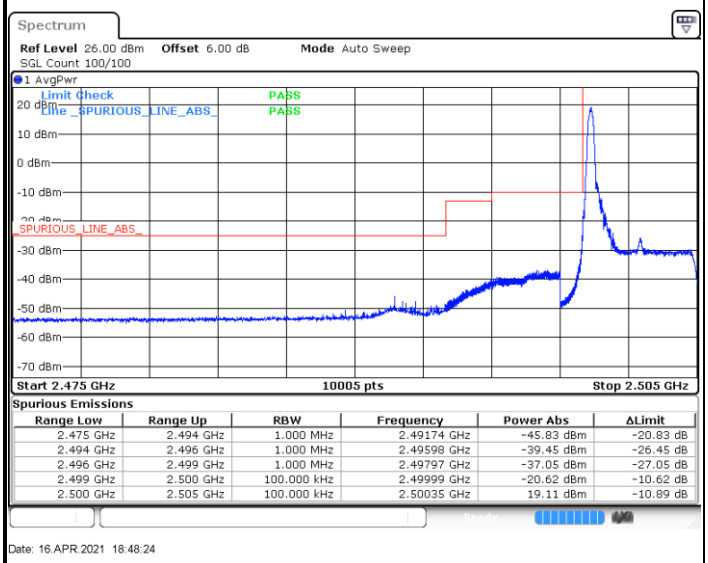
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56607 GHz	5.43 dBm	-24.57 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57002 GHz	-30.06 dBm	-20.06 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57124 GHz	-25.90 dBm	-15.90 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57503 GHz	-35.28 dBm	-22.28 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57614 GHz	-38.62 dBm	-13.62 dB

Date: 16.APR.2021 17:51:40

LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB

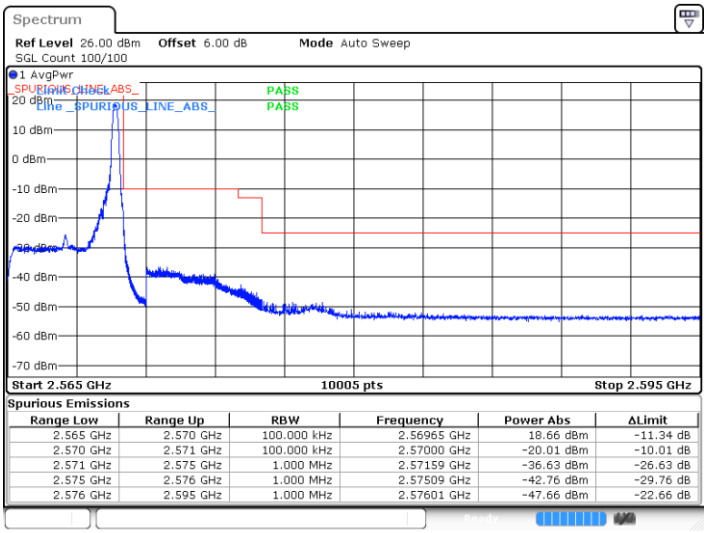


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49174 GHz	-45.83 dBm	-20.83 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49598 GHz	-39.45 dBm	-26.45 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49797 GHz	-37.05 dBm	-27.05 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-20.62 dBm	-10.62 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50035 GHz	19.11 dBm	-10.89 dB

Date: 16.APR.2021 18:48:24

Highest Band Edge / 1 RB

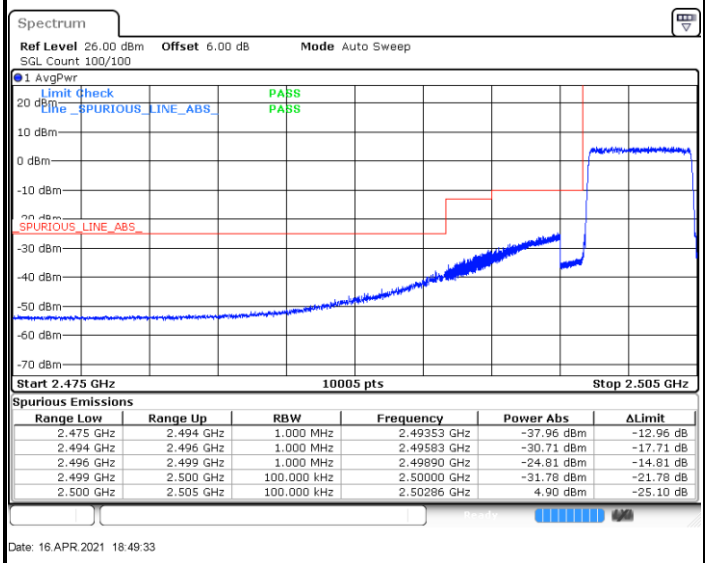


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56965 GHz	18.66 dBm	-11.34 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-20.01 dBm	-10.01 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57159 GHz	-36.63 dBm	-26.63 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57509 GHz	-42.76 dBm	-29.76 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57601 GHz	-47.66 dBm	-22.66 dB

Date: 16.APR.2021 18:50:41

Lowest Band Edge / Full RB

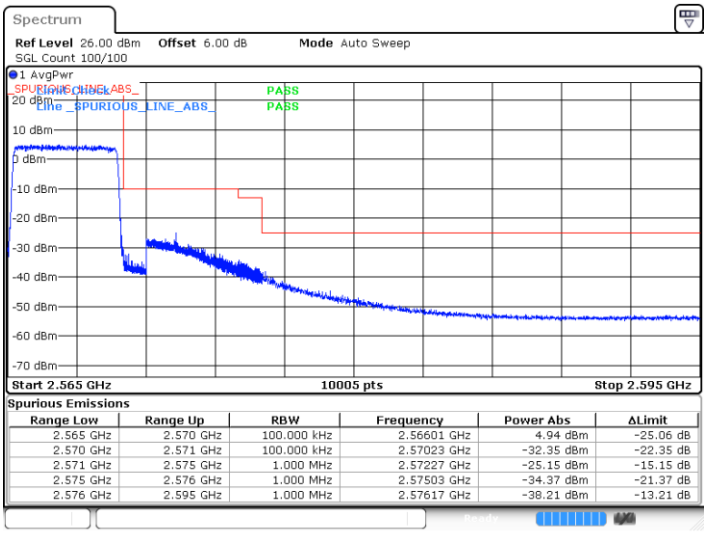


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49353 GHz	-37.96 dBm	-12.96 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49583 GHz	-30.71 dBm	-17.71 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49890 GHz	-24.81 dBm	-14.81 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-31.78 dBm	-21.78 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50286 GHz	4.90 dBm	-25.10 dB

Date: 16.APR.2021 18:49:33

Highest Band Edge / Full RB



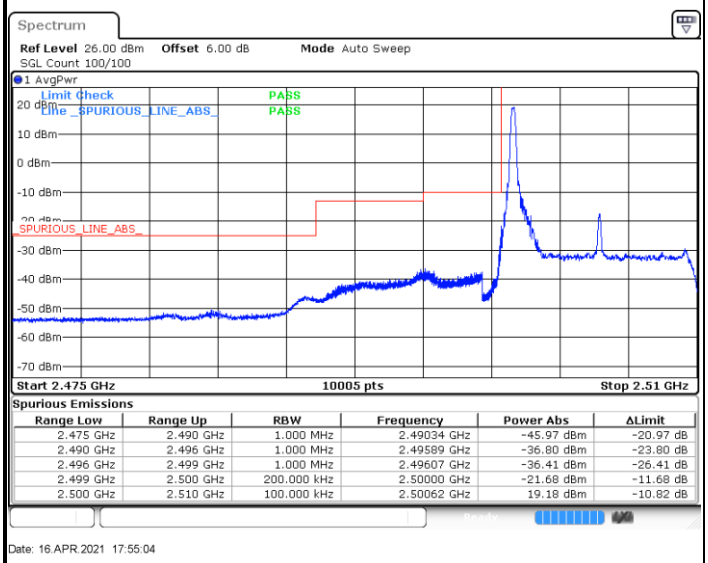
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56601 GHz	4.94 dBm	-25.06 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57023 GHz	-32.35 dBm	-22.35 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57227 GHz	-25.15 dBm	-15.15 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57503 GHz	-34.37 dBm	-21.37 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57617 GHz	-38.21 dBm	-13.21 dB

Date: 16.APR.2021 18:51:49

LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49034 GHz	-45.97 dBm	-20.97 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49589 GHz	-36.80 dBm	-23.80 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49607 GHz	-36.41 dBm	-26.41 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-21.68 dBm	-11.68 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50062 GHz	19.18 dBm	-10.82 dB

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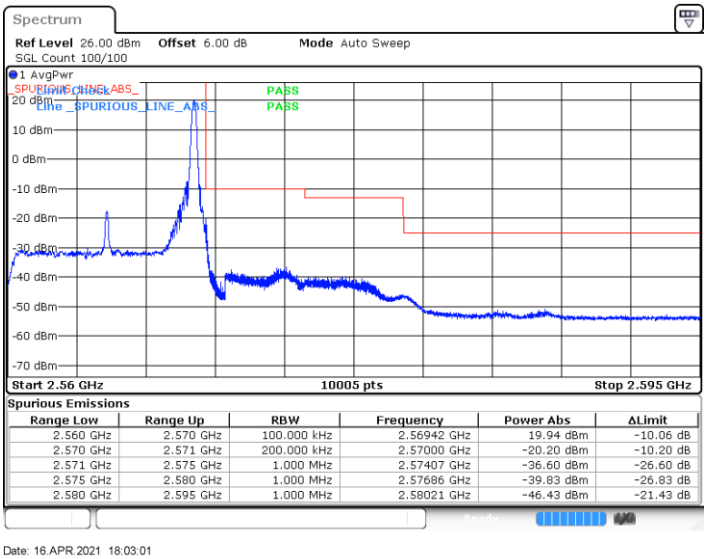
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56942 GHz	19.94 dBm	-10.06 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57000 GHz	-20.20 dBm	-10.20 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57407 GHz	-36.60 dBm	-26.60 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57686 GHz	-39.83 dBm	-26.83 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58021 GHz	-46.43 dBm	-21.43 dB

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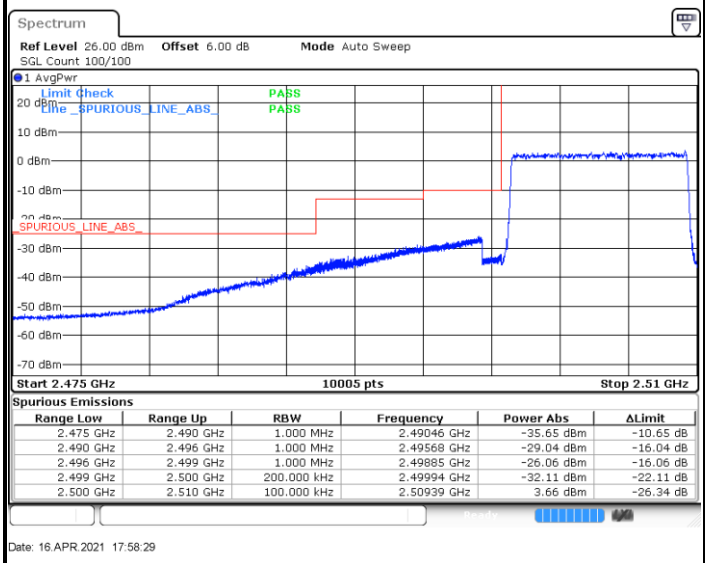
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49046 GHz	-35.65 dBm	-10.65 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49568 GHz	-29.04 dBm	-16.04 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49885 GHz	-26.06 dBm	-16.06 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49994 GHz	-32.11 dBm	-22.11 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50939 GHz	3.66 dBm	-26.34 dB

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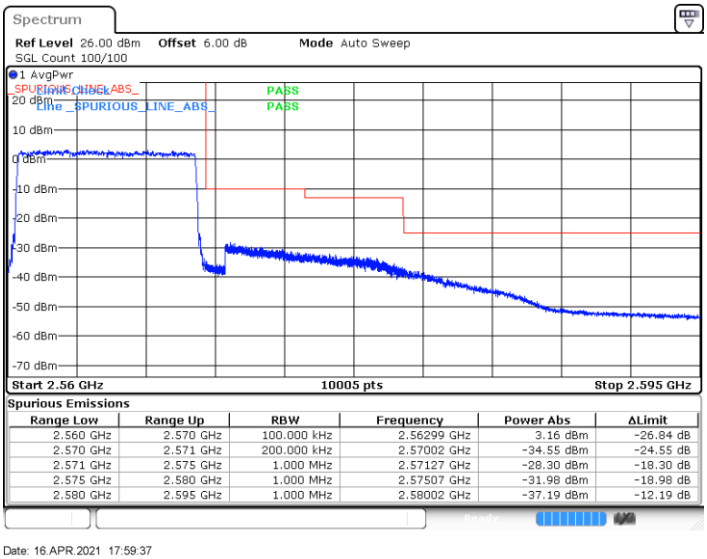
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56299 GHz	3.16 dBm	-26.84 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57002 GHz	-34.55 dBm	-24.55 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57127 GHz	-28.30 dBm	-18.30 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57507 GHz	-31.98 dBm	-18.98 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58002 GHz	-37.19 dBm	-12.19 dB

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