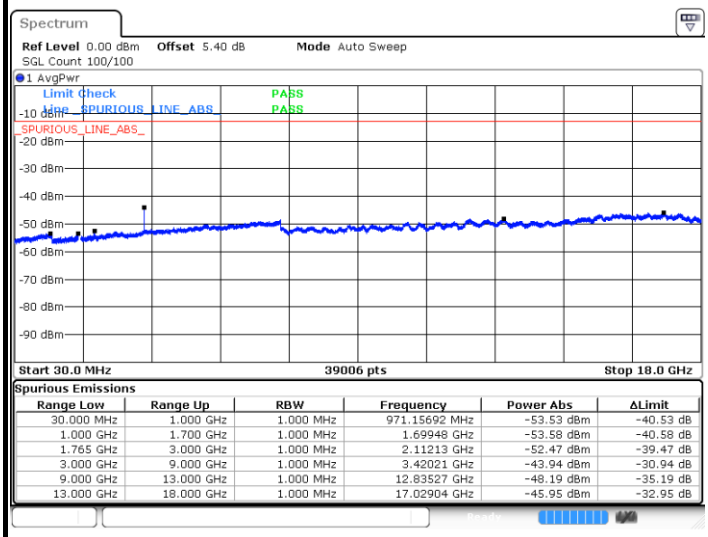
LTE Band 4 / 3MHz

Lowest Channel / QPSK

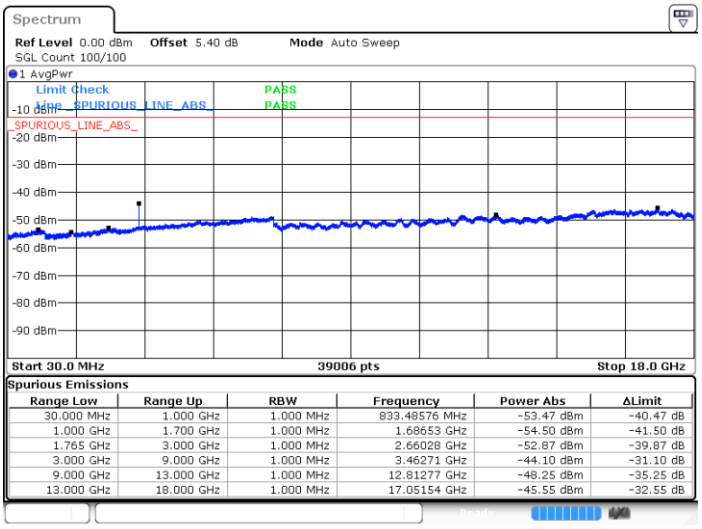


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	971.15692 MHz	-53.53 dBm	-40.53 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-53.58 dBm	-40.58 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.11213 GHz	-52.47 dBm	-39.47 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42021 GHz	-43.94 dBm	-30.94 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.83527 GHz	-48.19 dBm	-35.19 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.02904 GHz	-45.95 dBm	-32.95 dB

Date: 7.JUL.2022 22:14:07

Middle Channel / QPSK

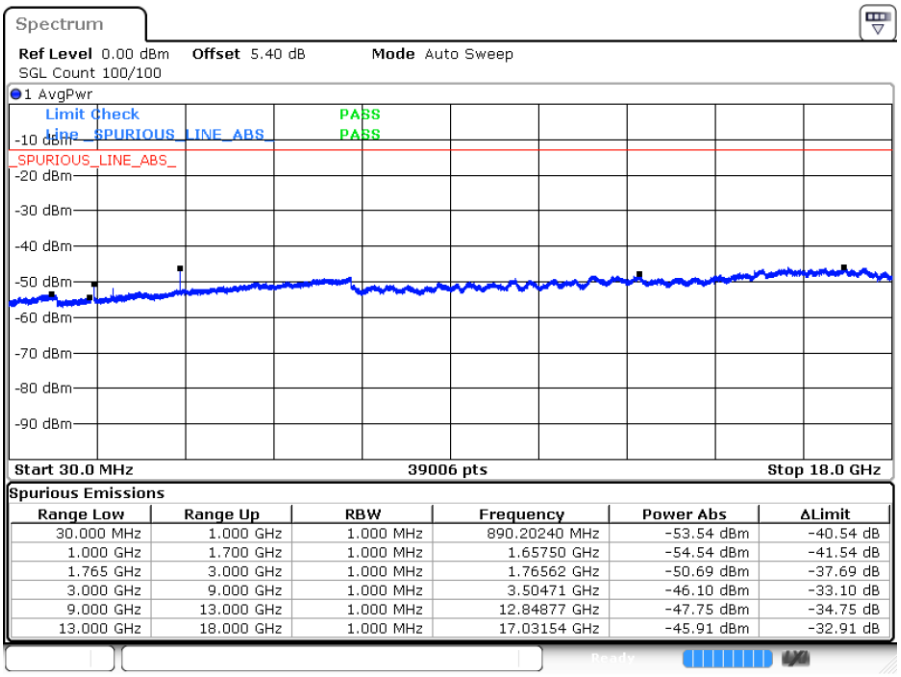


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	833.48576 MHz	-53.47 dBm	-40.47 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68653 GHz	-54.50 dBm	-41.50 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.66028 GHz	-52.87 dBm	-39.87 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.46271 GHz	-44.10 dBm	-31.10 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.81277 GHz	-48.25 dBm	-35.25 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.05154 GHz	-45.55 dBm	-32.55 dB

Date: 7.JUL.2022 22:25:26

Highest Channel / QPSK



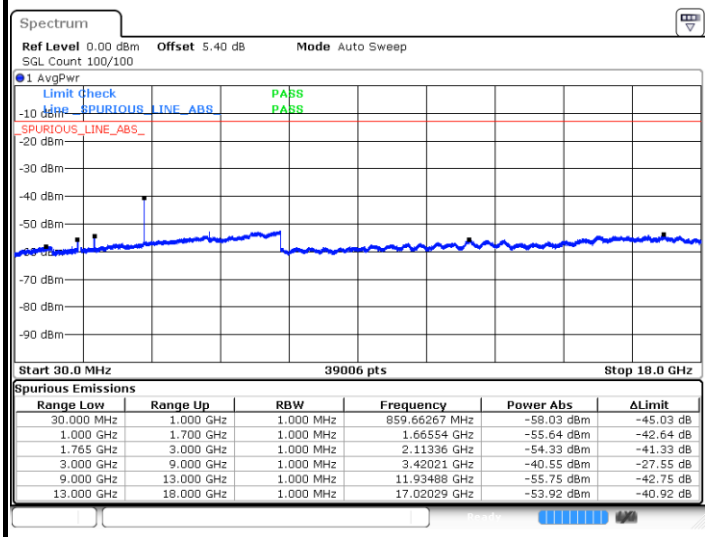
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	890.20240 MHz	-53.54 dBm	-40.54 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65750 GHz	-54.54 dBm	-41.54 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.76562 GHz	-50.69 dBm	-37.69 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.50471 GHz	-46.10 dBm	-33.10 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.84877 GHz	-47.75 dBm	-34.75 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.03154 GHz	-45.91 dBm	-32.91 dB

Date: 7.JUL.2022 22:26:46

LTE Band 4 / 5MHz

Lowest Channel / QPSK

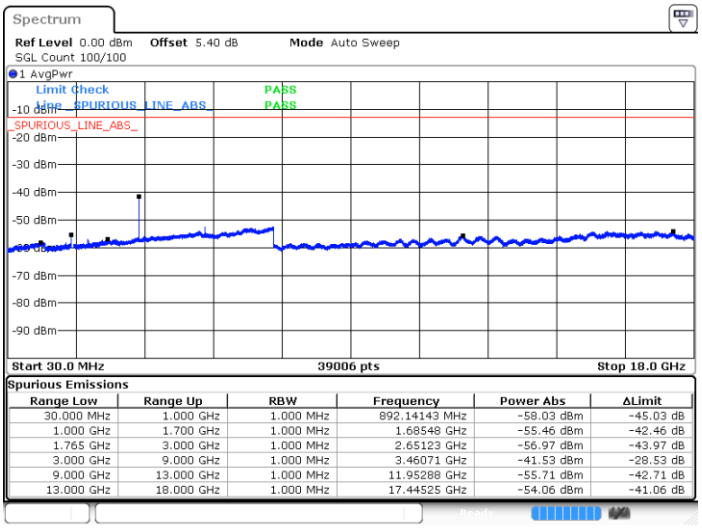


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	859.66267 MHz	-58.03 dBm	-45.03 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66554 GHz	-55.64 dBm	-42.64 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.11336 GHz	-54.33 dBm	-41.33 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42021 GHz	-40.55 dBm	-27.55 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.93488 GHz	-55.75 dBm	-42.75 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.02029 GHz	-53.92 dBm	-40.92 dB

Date: 7.JUL.2022 22:38:05

Middle Channel / QPSK

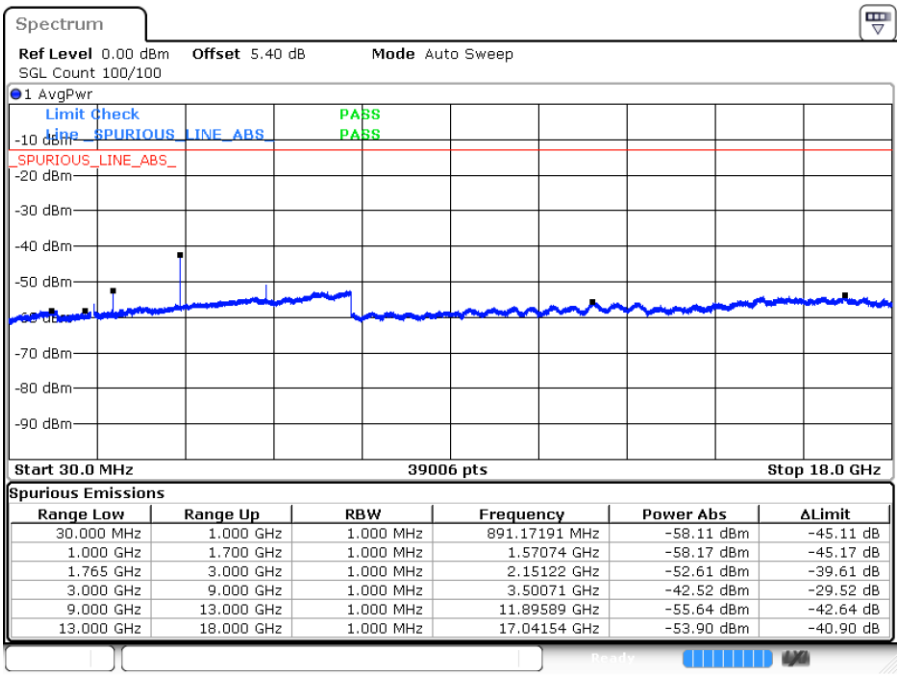


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	892.14143 MHz	-58.03 dBm	-45.03 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68548 GHz	-55.46 dBm	-42.46 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.65123 GHz	-56.97 dBm	-43.97 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.46071 GHz	-41.53 dBm	-28.53 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.95288 GHz	-55.71 dBm	-42.71 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.44525 GHz	-54.06 dBm	-41.06 dB

Date: 7.JUL.2022 22:49:24

Highest Channel / QPSK



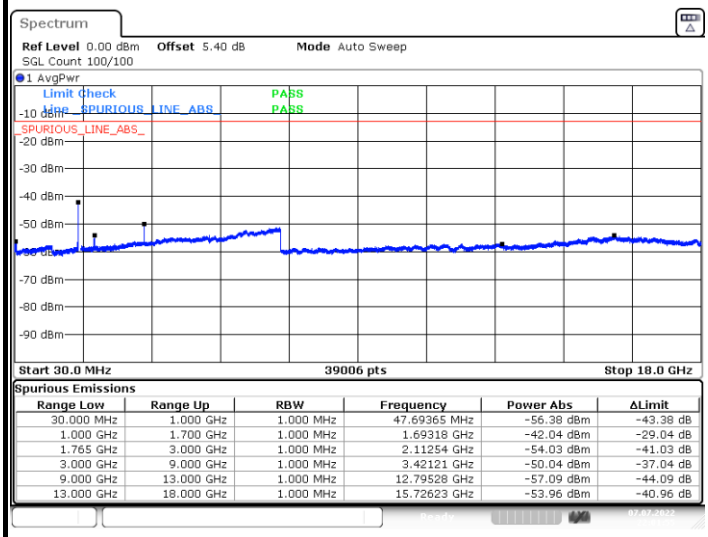
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	891.17191 MHz	-58.11 dBm	-45.11 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.57074 GHz	-58.17 dBm	-45.17 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.15122 GHz	-52.61 dBm	-39.61 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.50071 GHz	-42.52 dBm	-29.52 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.89589 GHz	-55.64 dBm	-42.64 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.04154 GHz	-53.90 dBm	-40.90 dB

Date: 7.JUL.2022 22:50:44

LTE Band 4 / 10MHz

Lowest Channel / QPSK

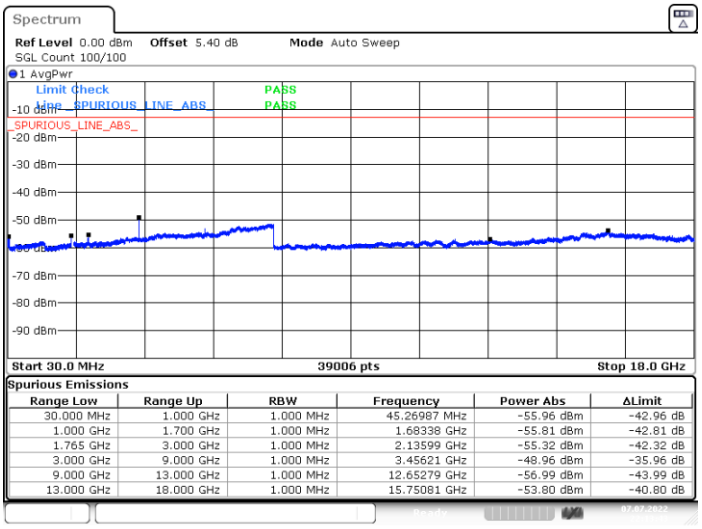


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	47.69365 MHz	-56.38 dBm	-43.38 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69318 GHz	-42.04 dBm	-29.04 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.11254 GHz	-54.03 dBm	-41.03 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42121 GHz	-50.04 dBm	-37.04 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.79528 GHz	-57.09 dBm	-44.09 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.72623 GHz	-53.96 dBm	-40.96 dB

Date: 7.JUL.2022 22:01:56

Middle Channel / QPSK

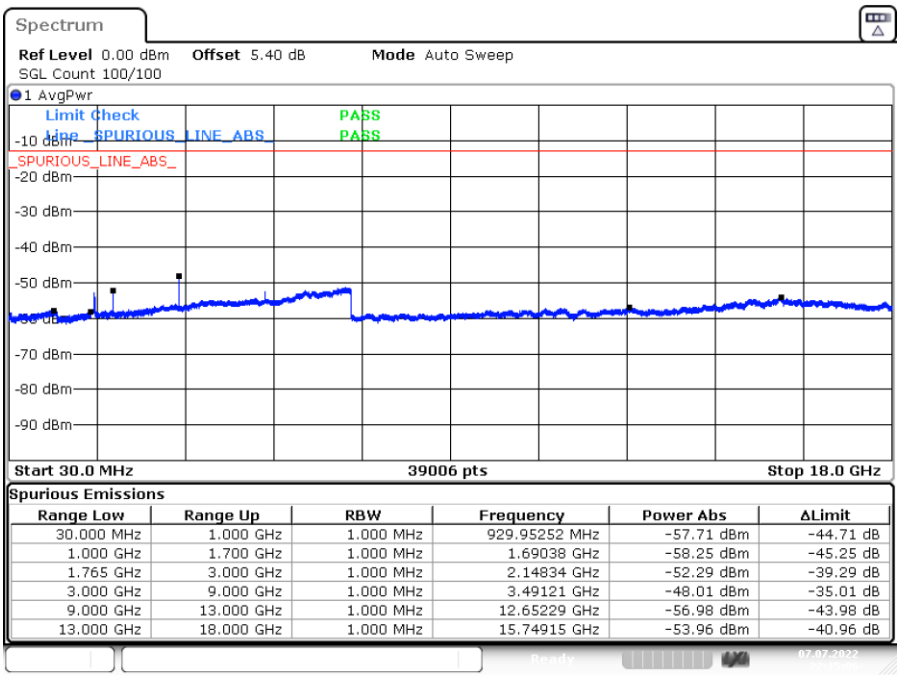


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	45.26987 MHz	-55.96 dBm	-42.96 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68338 GHz	-55.81 dBm	-42.81 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.13599 GHz	-55.32 dBm	-42.32 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.45621 GHz	-48.96 dBm	-35.96 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.65279 GHz	-56.99 dBm	-43.99 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.75081 GHz	-53.80 dBm	-40.80 dB

Date: 7.JUL.2022 22:13:43

Highest Channel / QPSK



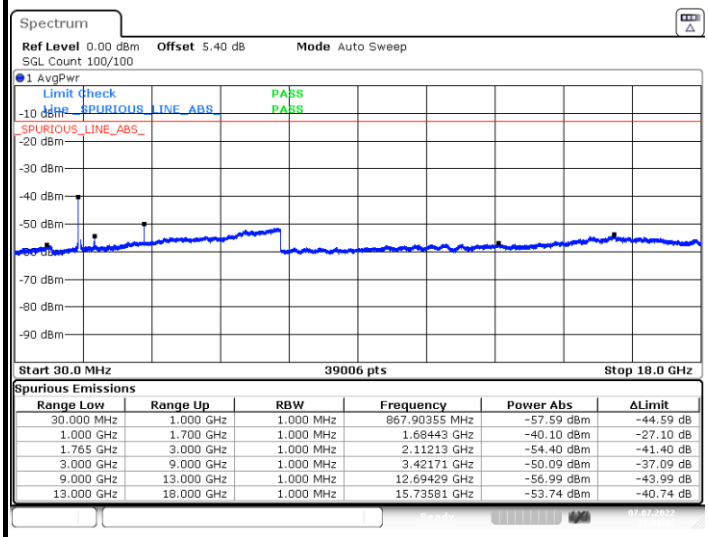
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	929.95252 MHz	-57.71 dBm	-44.71 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69038 GHz	-58.25 dBm	-45.25 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.14834 GHz	-52.29 dBm	-39.29 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.49121 GHz	-48.01 dBm	-35.01 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.65229 GHz	-56.98 dBm	-43.98 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74915 GHz	-53.96 dBm	-40.96 dB

Date: 7.JUL.2022 22:15:06

LTE Band 4 / 15MHz

Lowest Channel / QPSK

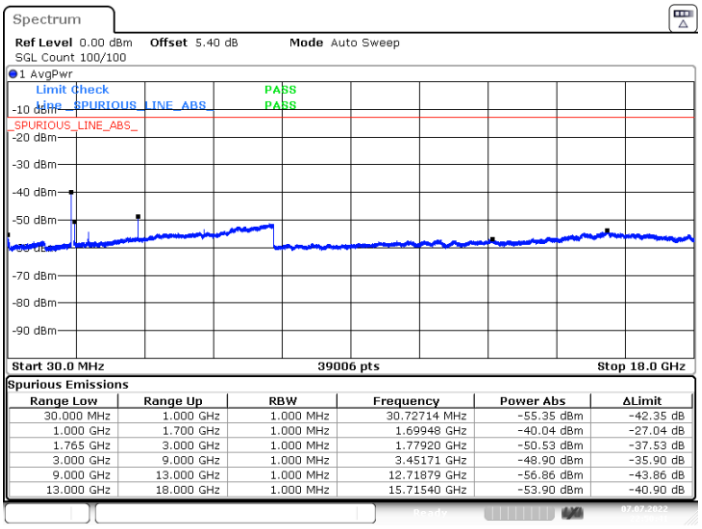


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	867.90355 MHz	-57.59 dBm	-44.59 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68443 GHz	-40.10 dBm	-27.10 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.11213 GHz	-54.40 dBm	-41.40 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42171 GHz	-50.09 dBm	-37.09 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69429 GHz	-56.99 dBm	-43.99 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.73581 GHz	-53.74 dBm	-40.74 dB

Date: 7.JUL.2022 22:31:33

Middle Channel / QPSK

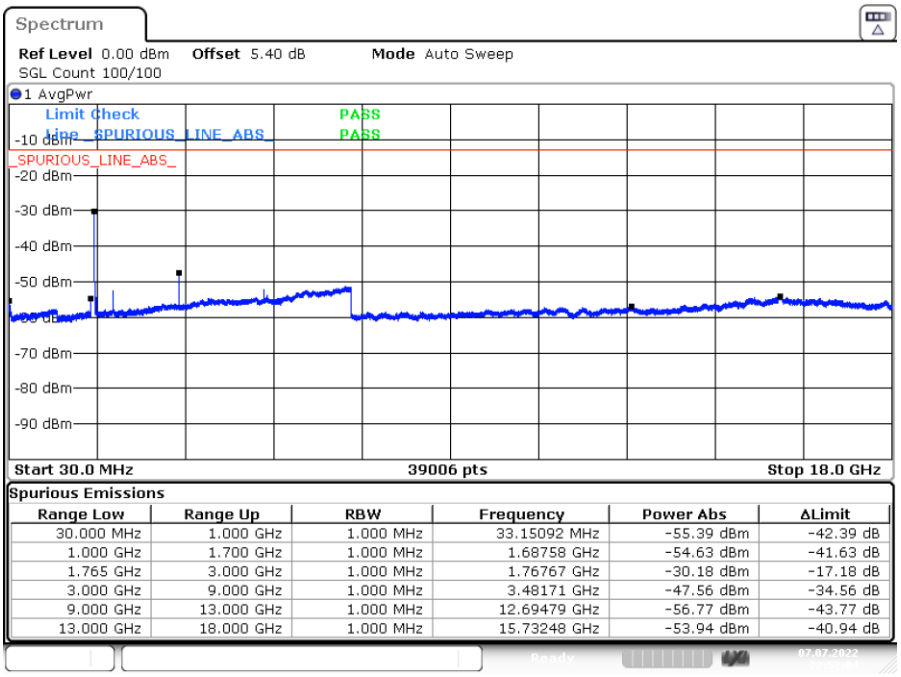


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	30.72714 MHz	-55.35 dBm	-42.35 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-40.04 dBm	-27.04 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.77920 GHz	-50.53 dBm	-37.53 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.45171 GHz	-48.90 dBm	-35.90 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.71879 GHz	-56.86 dBm	-43.86 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.71540 GHz	-53.90 dBm	-40.90 dB

Date: 7.JUL.2022 22:50:42

Highest Channel / QPSK



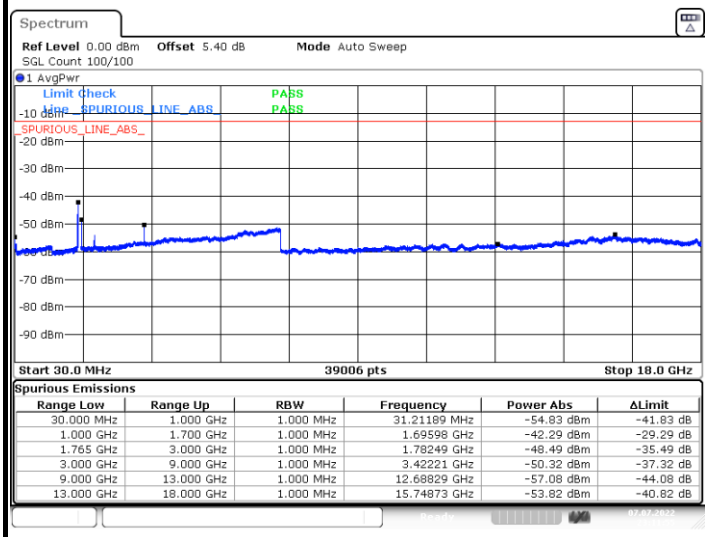
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	33.15092 MHz	-55.39 dBm	-42.39 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68758 GHz	-54.63 dBm	-41.63 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.76767 GHz	-30.18 dBm	-17.18 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.48171 GHz	-47.56 dBm	-34.56 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69479 GHz	-56.77 dBm	-43.77 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.73248 GHz	-53.94 dBm	-40.94 dB

Date: 7.JUL.2022 22:52:04

LTE Band 4 / 20MHz

Lowest Channel / QPSK

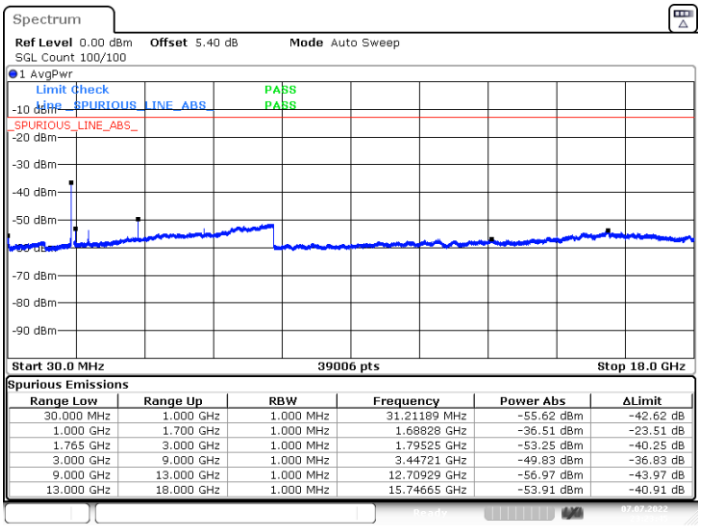


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	31.21189 MHz	-54.83 dBm	-41.83 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69598 GHz	-42.29 dBm	-29.29 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.78249 GHz	-48.49 dBm	-35.49 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42221 GHz	-50.32 dBm	-37.32 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68829 GHz	-57.08 dBm	-44.08 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74873 GHz	-53.82 dBm	-40.82 dB

Date: 7.JUL.2022 23:11:55

Middle Channel / QPSK

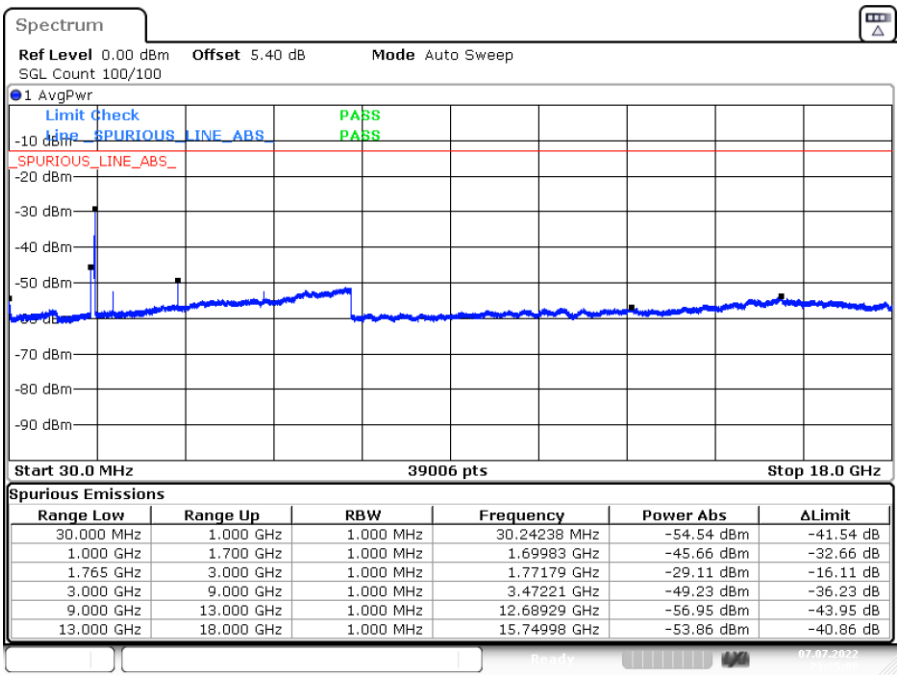


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	31.21189 MHz	-55.62 dBm	-42.62 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68828 GHz	-36.51 dBm	-23.51 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.79525 GHz	-53.25 dBm	-40.25 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.44721 GHz	-49.83 dBm	-36.83 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70929 GHz	-56.97 dBm	-43.97 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74665 GHz	-53.91 dBm	-40.91 dB

Date: 7.JUL.2022 23:23:45

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	30.24238 MHz	-54.54 dBm	-41.54 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-45.66 dBm	-32.66 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.77179 GHz	-29.11 dBm	-16.11 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.47221 GHz	-49.23 dBm	-36.23 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68929 GHz	-56.95 dBm	-43.95 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74998 GHz	-53.86 dBm	-40.86 dB

Date: 7.JUL.2022 23:25:08

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

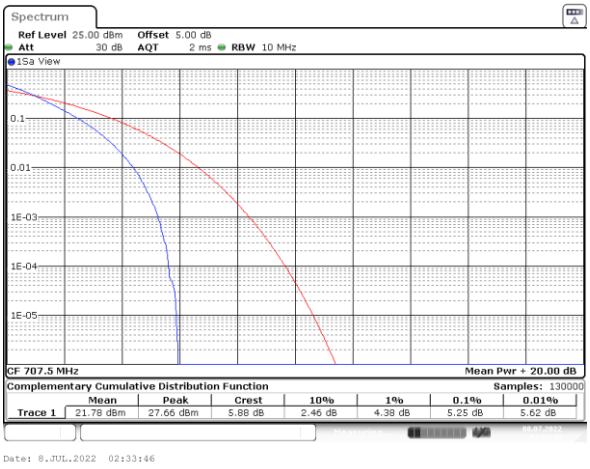
LTE Band 12

Peak-to-Average Ratio

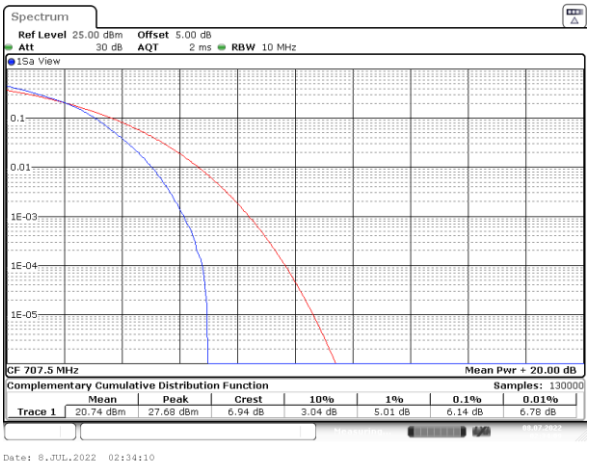
Mode	LTE Band 12 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.25	6.14	6.55	PASS

LTE Band 12 / 10MHz

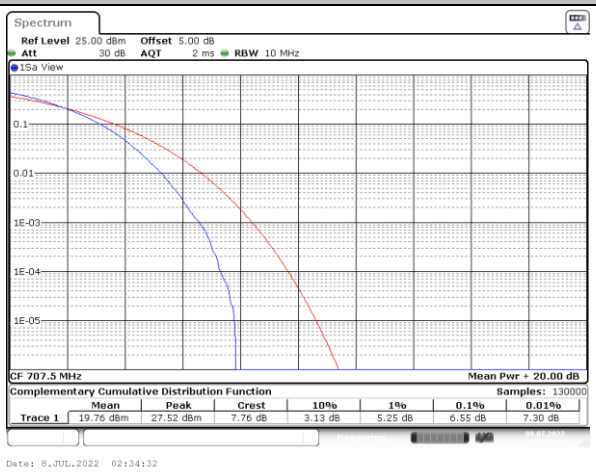
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

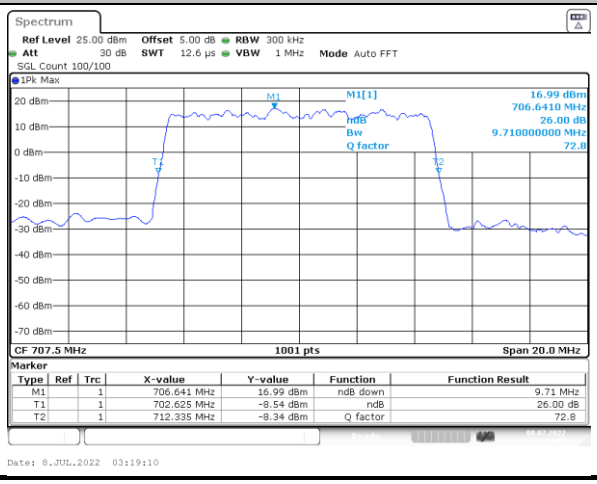


26dB Bandwidth

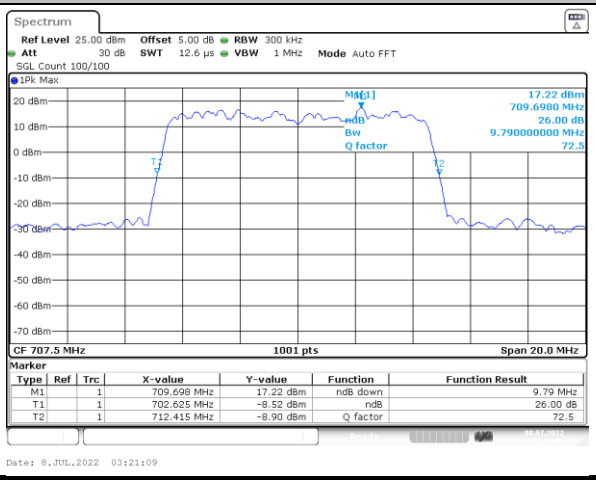
Mode	LTE Band 12 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.71	9.79

LTE Band 12

Middle Channel / 10MHz / QPSK



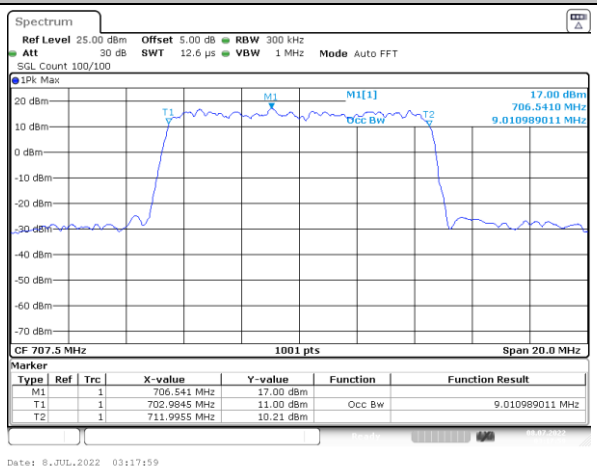
Middle Channel / 10MHz / 16QAM

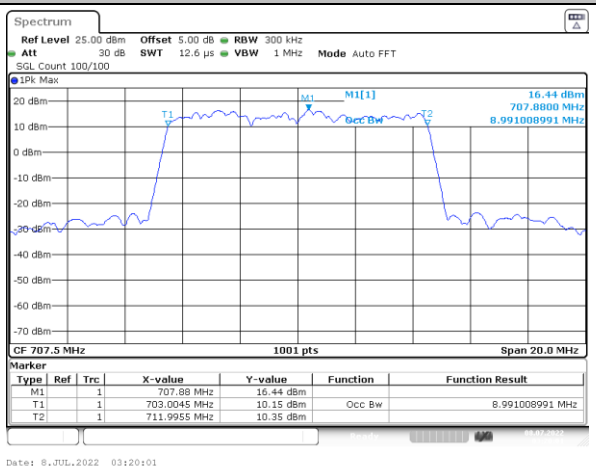


Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	8.99

LTE Band 12	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM

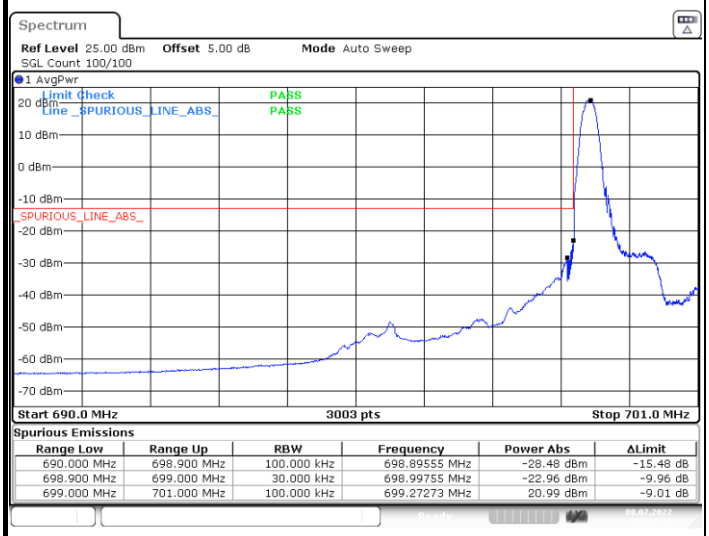




Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

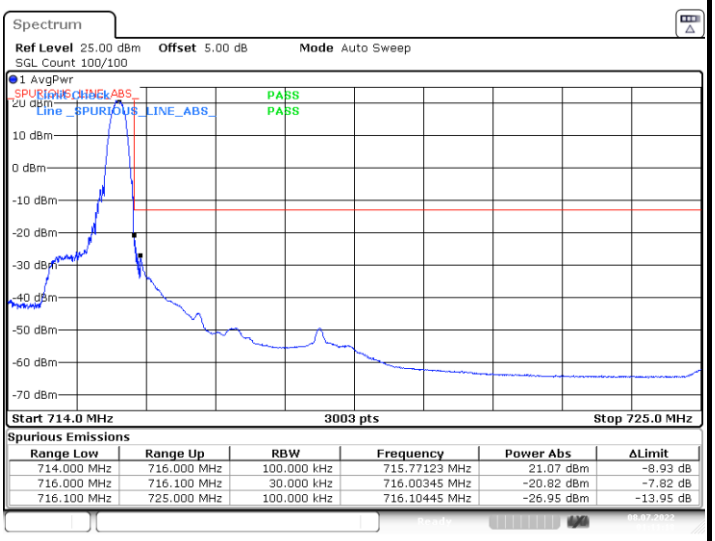


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.48 dBm	-15.48 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99755 MHz	-22.96 dBm	-9.96 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.27273 MHz	20.99 dBm	-9.01 dB

Date: 8.JUL.2022 00:58:16

Highest Band Edge / 1RB

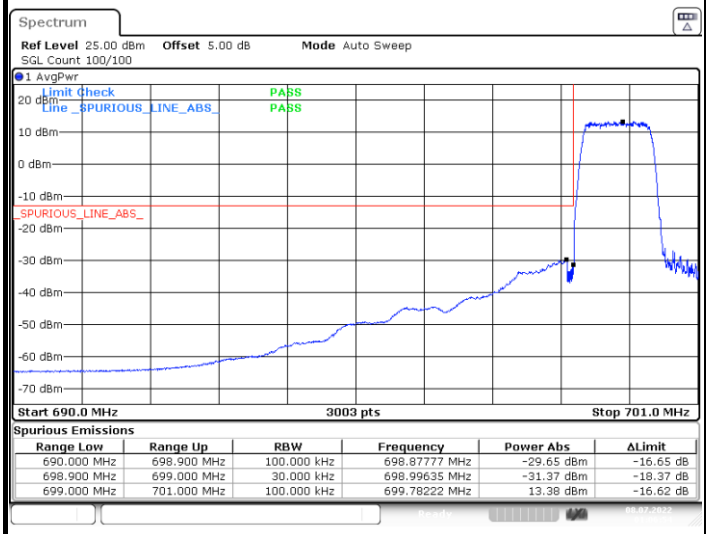


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.77123 MHz	21.07 dBm	-8.93 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00345 MHz	-20.82 dBm	-7.82 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-26.95 dBm	-13.95 dB

Date: 8.JUL.2022 01:11:19

Lowest Band Edge / Full RB

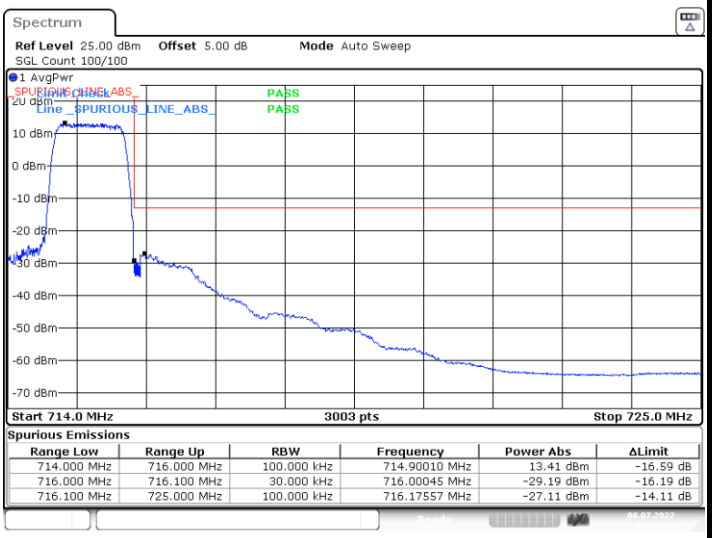


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.87777 MHz	-29.65 dBm	-16.65 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99635 MHz	-31.37 dBm	-18.37 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.78222 MHz	13.38 dBm	-16.62 dB

Date: 8.JUL.2022 01:06:54

Highest Band Edge / Full RB



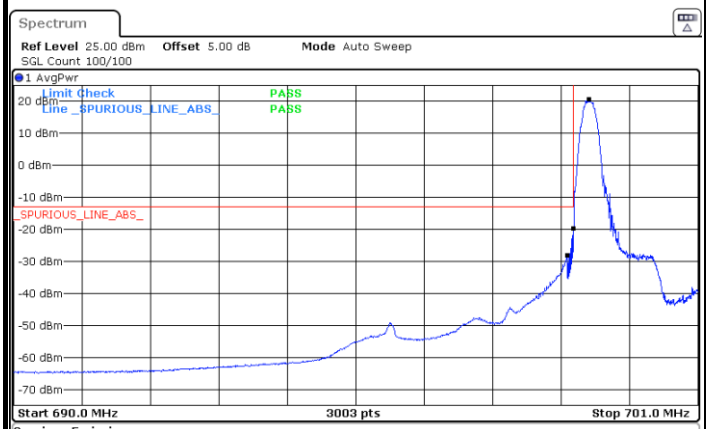
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	714.90010 MHz	13.41 dBm	-16.59 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00045 MHz	-29.19 dBm	-16.19 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.17557 MHz	-27.11 dBm	-14.11 dB

Date: 8.JUL.2022 01:19:42

LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

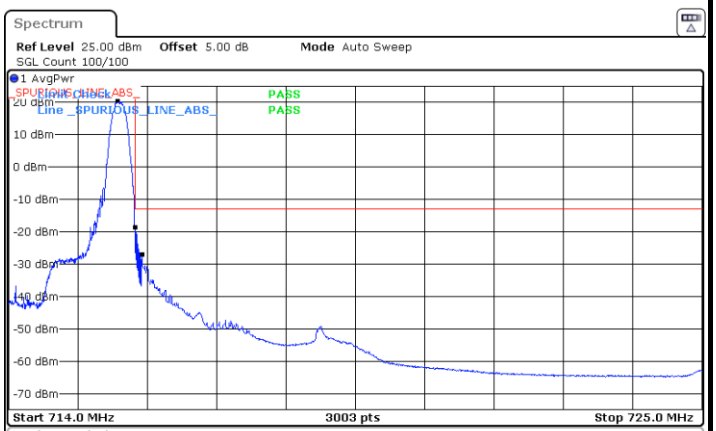


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.03 dBm	-15.03 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99376 MHz	-19.59 dBm	-6.59 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.24875 MHz	20.58 dBm	-9.42 dB

Date: 8.JUL.2022 00:59:59

Highest Band Edge / 1 RB

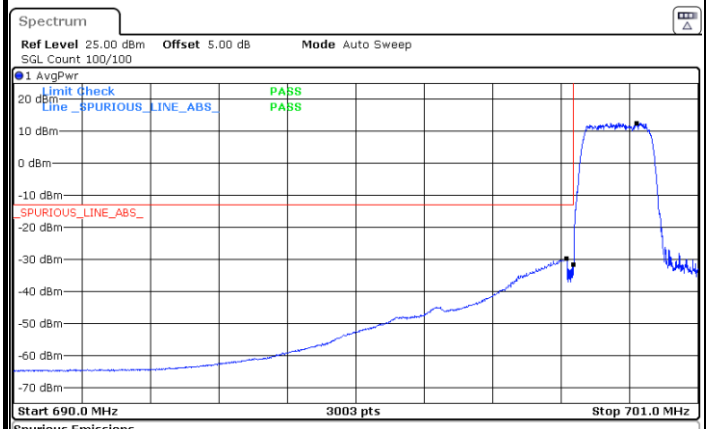


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.73327 MHz	20.65 dBm	-9.35 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00315 MHz	-18.75 dBm	-5.75 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-26.93 dBm	-13.93 dB

Date: 8.JUL.2022 01:13:00

Lowest Band Edge / Full RB

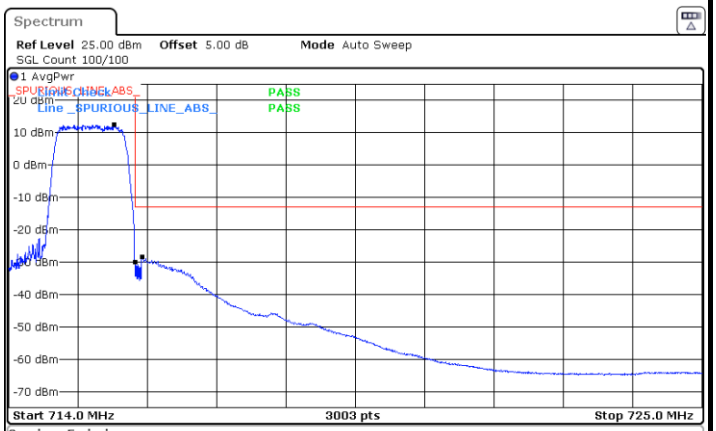


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.87777 MHz	-29.70 dBm	-16.70 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99935 MHz	-31.57 dBm	-18.57 dB
699.000 MHz	701.000 MHz	100.000 kHz	700.00400 MHz	12.61 dBm	-17.39 dB

Date: 8.JUL.2022 01:05:11

Highest Band Edge / Full RB



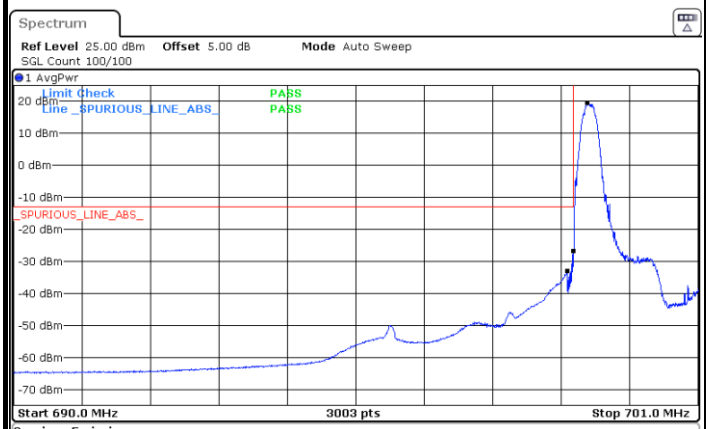
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.66933 MHz	12.56 dBm	-17.44 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00175 MHz	-29.93 dBm	-16.93 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-28.46 dBm	-15.46 dB

Date: 8.JUL.2022 01:18:02

LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

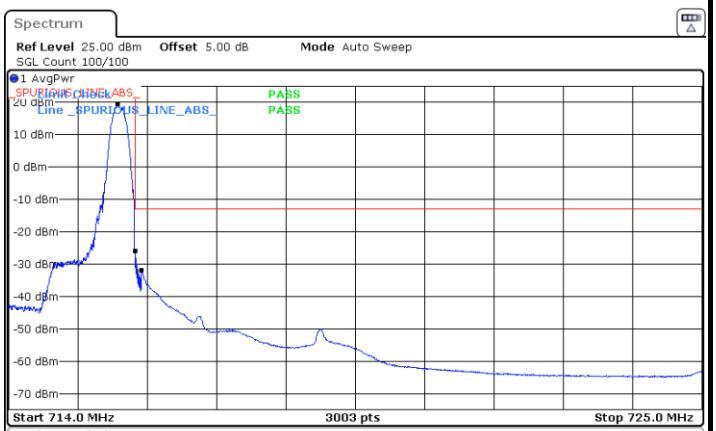


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.03 dBm	-20.03 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99935 MHz	-26.63 dBm	-13.63 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.21878 MHz	19.52 dBm	-10.48 dB

Date: 8.JUL.2022 01:01:43

Highest Band Edge / 1 RB

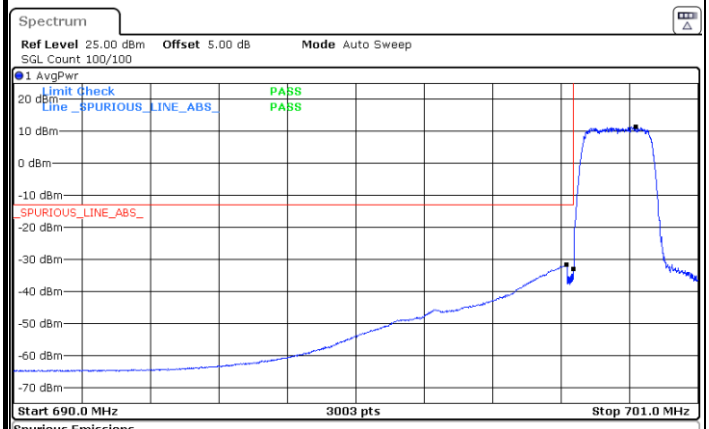


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.73127 MHz	19.40 dBm	-10.60 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00355 MHz	-25.97 dBm	-12.97 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.92 dBm	-18.92 dB

Date: 8.JUL.2022 01:14:40

Lowest Band Edge / Full RB

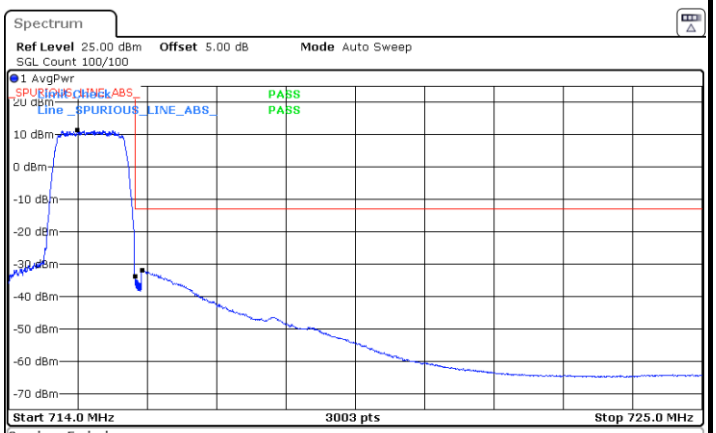


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-31.57 dBm	-18.57 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99336 MHz	-33.02 dBm	-20.02 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.99201 MHz	11.40 dBm	-18.60 dB

Date: 8.JUL.2022 01:03:27

Highest Band Edge / Full RB



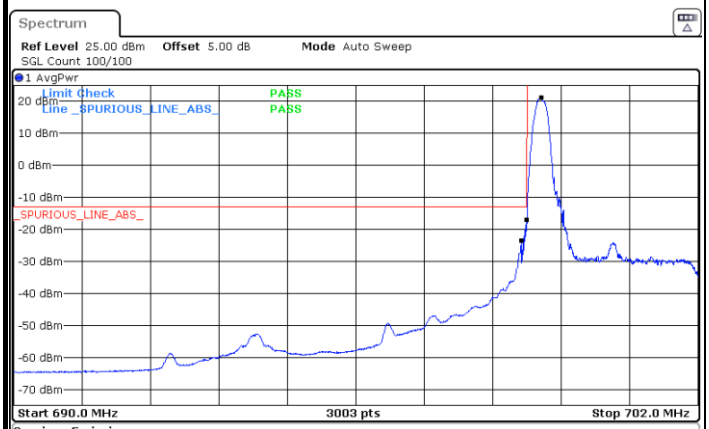
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.08991 MHz	11.55 dBm	-18.45 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00145 MHz	-33.71 dBm	-20.71 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-31.98 dBm	-18.98 dB

Date: 8.JUL.2022 01:16:21

LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

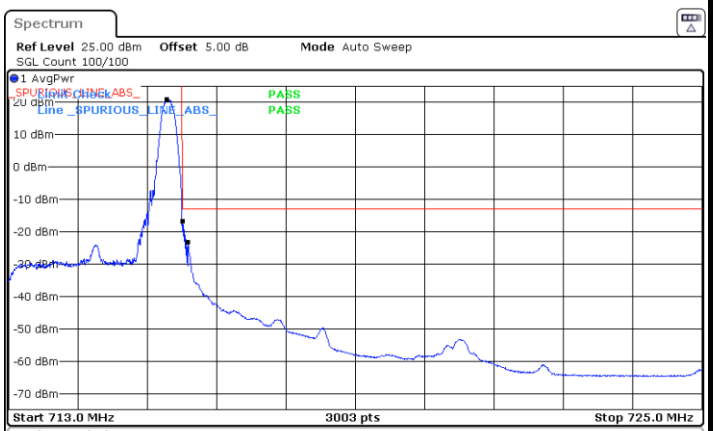


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-23.55 dBm	-10.55 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99845 MHz	-16.87 dBm	-3.87 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.24725 MHz	21.19 dBm	-8.81 dB

Date: 8.JUL.2022 01:22:49

Highest Band Edge / 1 RB

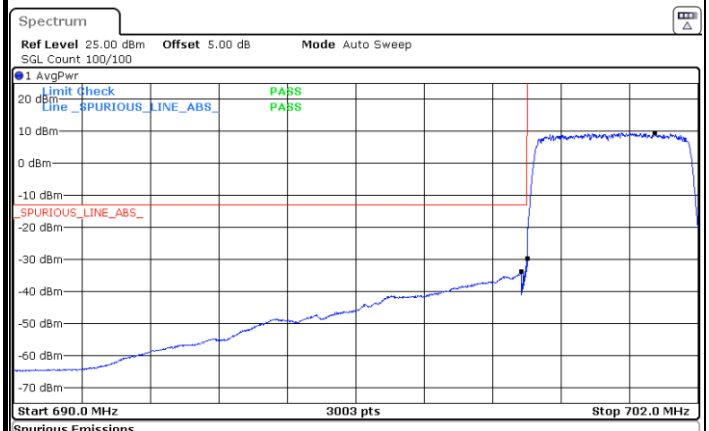


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.74076 MHz	21.02 dBm	-8.98 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00235 MHz	-16.84 dBm	-3.84 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-23.30 dBm	-10.30 dB

Date: 8.JUL.2022 01:35:52

Lowest Band Edge / Full RB

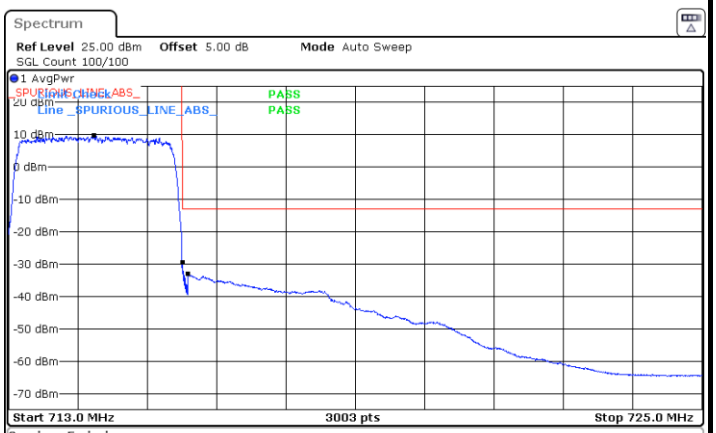


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.72 dBm	-20.72 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99925 MHz	-29.64 dBm	-16.64 dB
699.000 MHz	702.000 MHz	100.000 kHz	701.24326 MHz	9.51 dBm	-20.49 dB

Date: 8.JUL.2022 01:31:28

Highest Band Edge / Full RB



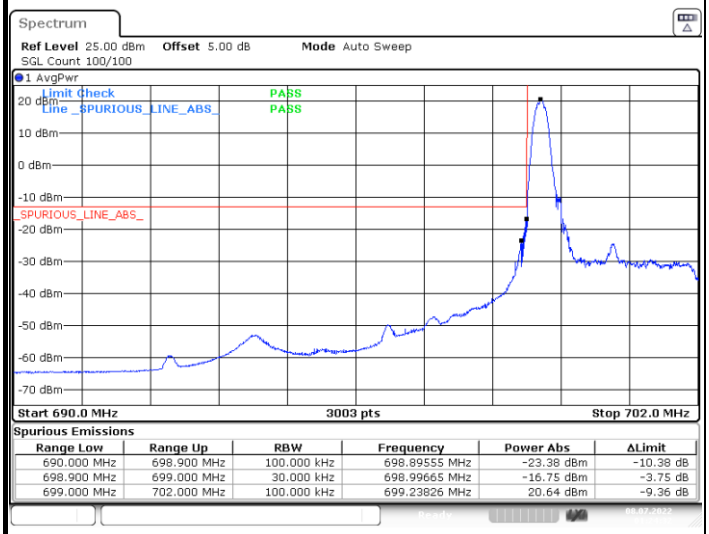
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	714.47902 MHz	9.74 dBm	-20.26 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00105 MHz	-29.51 dBm	-16.51 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.92 dBm	-19.92 dB

Date: 8.JUL.2022 01:44:16

LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

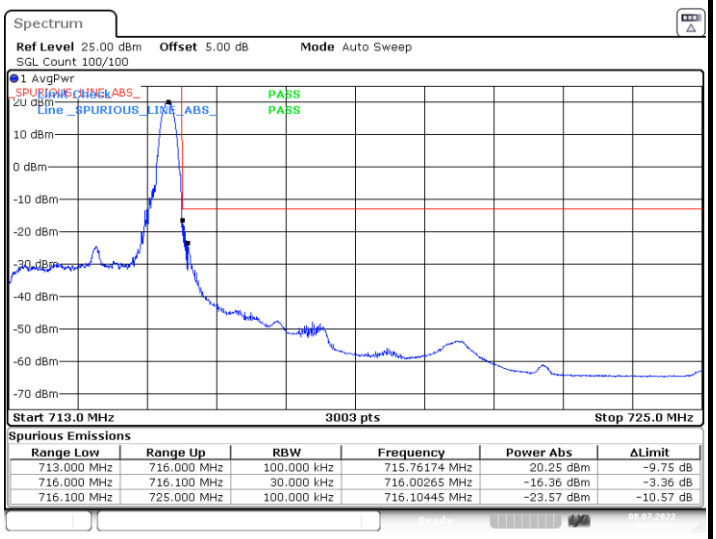


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-23.38 dBm	-10.38 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99665 MHz	-16.75 dBm	-3.75 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.23826 MHz	20.64 dBm	-9.36 dB

Date: 8.JUL.2022 01:24:32

Highest Band Edge /1 RB

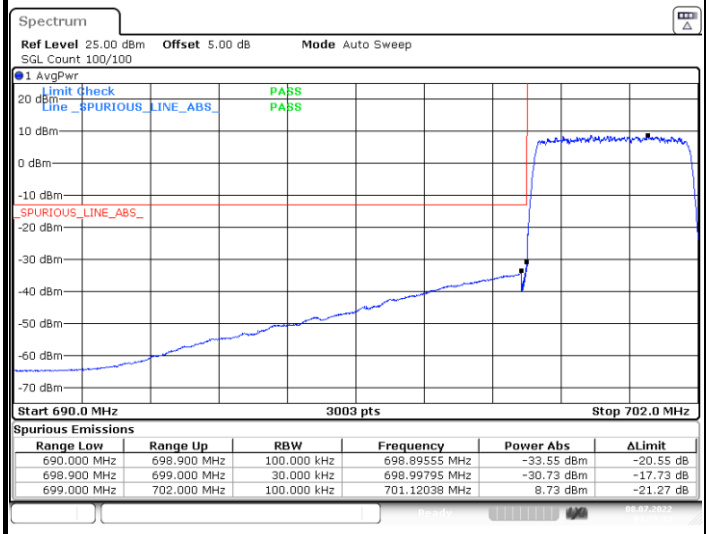


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.76174 MHz	20.25 dBm	-9.75 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00265 MHz	-16.36 dBm	-3.36 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-23.57 dBm	-10.57 dB

Date: 8.JUL.2022 01:37:32

Lowest Band Edge / Full RB

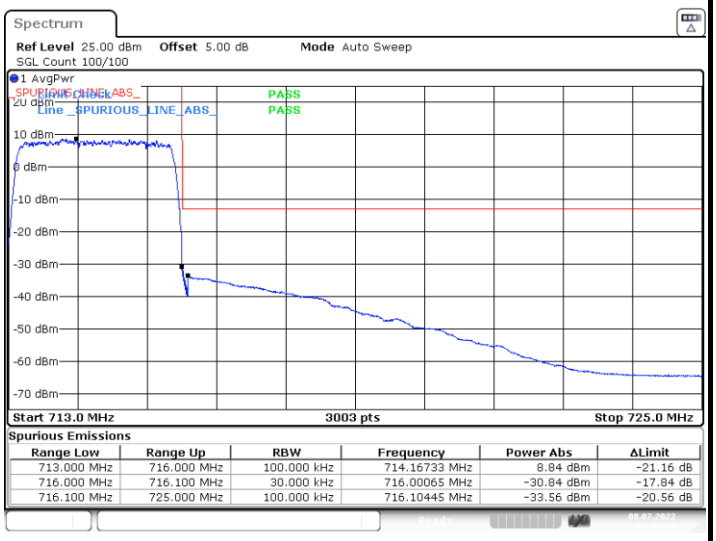


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.55 dBm	-20.55 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99795 MHz	-30.73 dBm	-17.73 dB
699.000 MHz	702.000 MHz	100.000 kHz	701.12038 MHz	8.73 dBm	-21.27 dB

Date: 8.JUL.2022 01:29:44

Highest Band Edge / Full RB



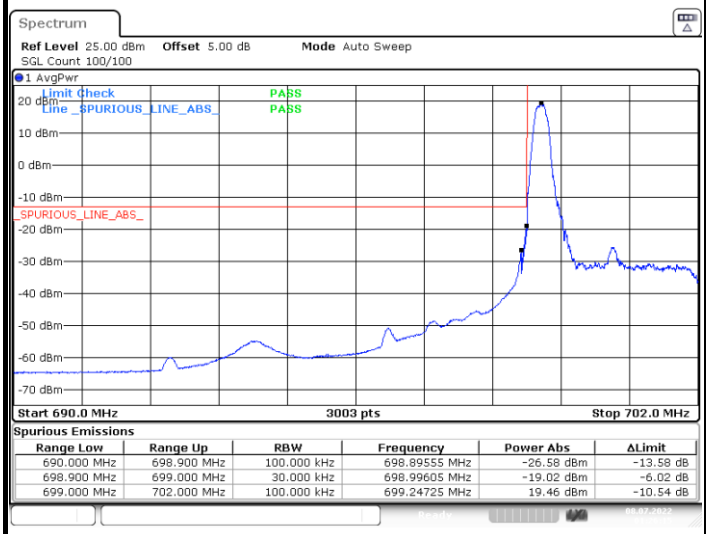
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	714.16733 MHz	8.84 dBm	-21.16 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00065 MHz	-30.84 dBm	-17.84 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.56 dBm	-20.56 dB

Date: 8.JUL.2022 01:42:35

LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB

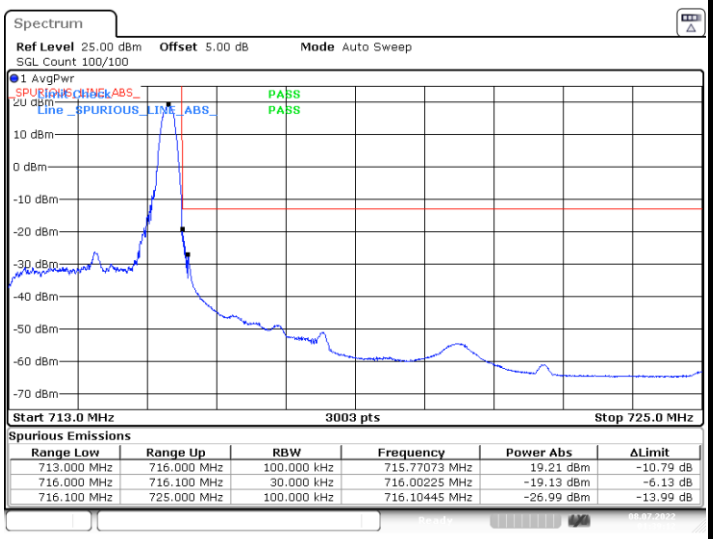


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-26.58 dBm	-13.58 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99605 MHz	-19.02 dBm	-6.02 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.24725 MHz	19.46 dBm	-10.54 dB

Date: 8.JUL.2022 01:26:16

Highest Band Edge /1 RB

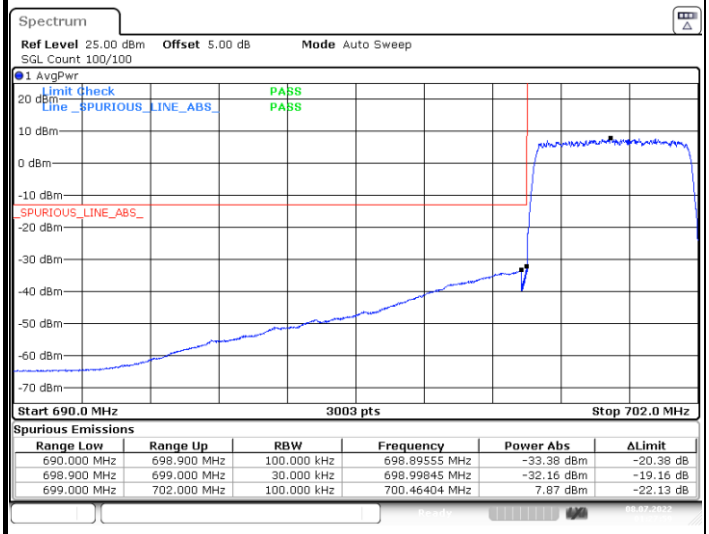


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.77073 MHz	19.21 dBm	-10.79 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00225 MHz	-19.13 dBm	-6.13 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-26.99 dBm	-13.99 dB

Date: 8.JUL.2022 01:39:13

Lowest Band Edge / Full RB

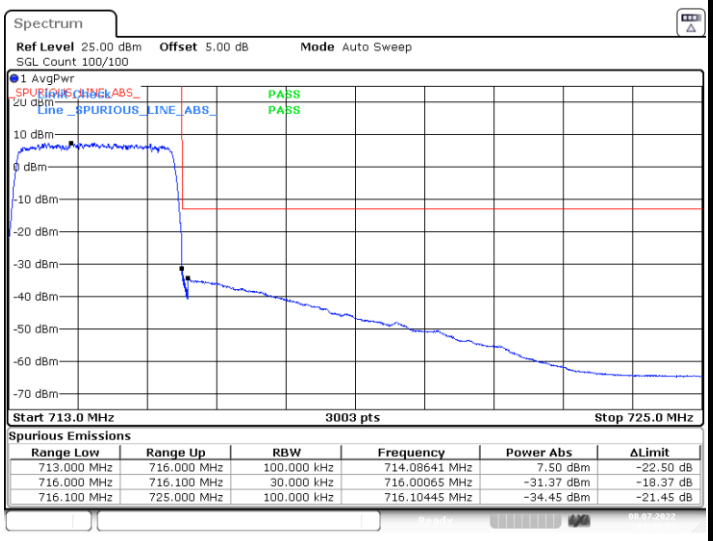


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.38 dBm	-20.38 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99845 MHz	-32.16 dBm	-19.16 dB
699.000 MHz	702.000 MHz	100.000 kHz	700.46404 MHz	7.87 dBm	-22.13 dB

Date: 8.JUL.2022 01:28:00

Highest Band Edge / Full RB



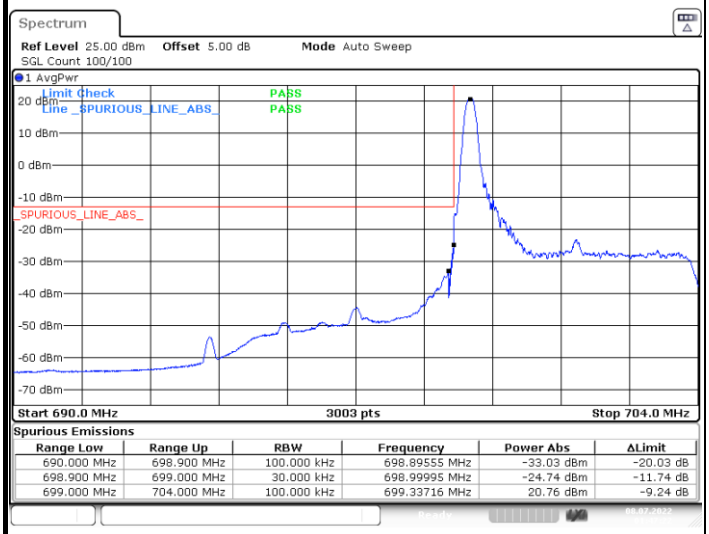
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	714.08641 MHz	7.50 dBm	-22.50 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00065 MHz	-31.37 dBm	-18.37 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-34.45 dBm	-21.45 dB

Date: 8.JUL.2022 01:40:54

LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

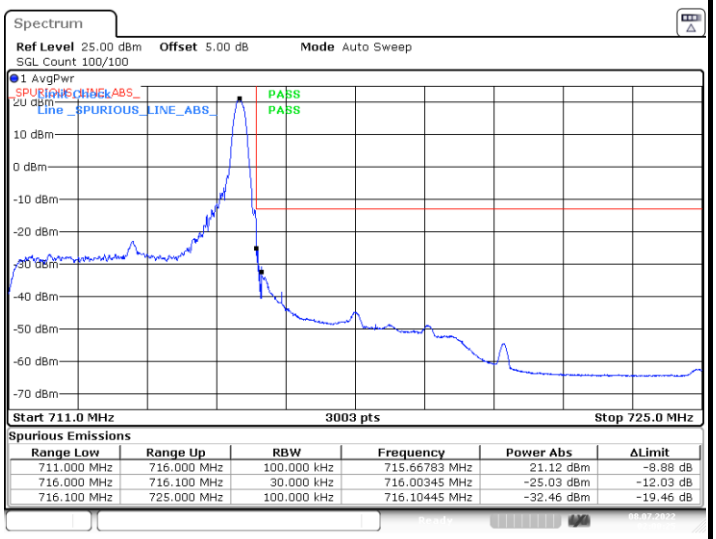


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.03 dBm	-20.03 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99995 MHz	-24.74 dBm	-11.74 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.33716 MHz	20.76 dBm	-9.24 dB

Date: 8.JUL.2022 01:47:23

Highest Band Edge / 1 RB

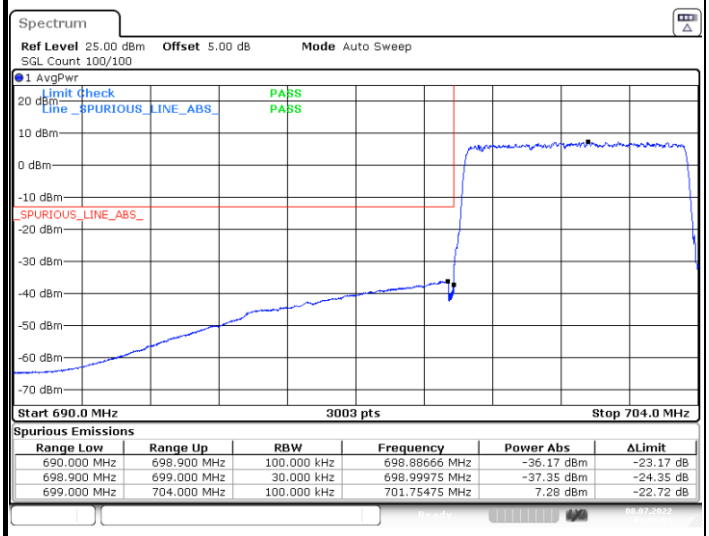


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.66783 MHz	21.12 dBm	-8.88 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00345 MHz	-25.03 dBm	-12.03 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.46 dBm	-19.46 dB

Date: 8.JUL.2022 02:00:26

Lowest Band Edge / Full RB

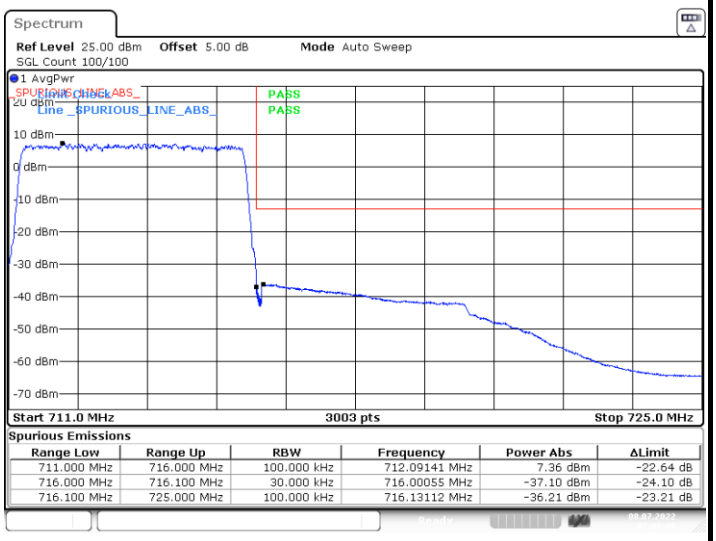


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-36.17 dBm	-23.17 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99975 MHz	-37.35 dBm	-24.35 dB
699.000 MHz	704.000 MHz	100.000 kHz	701.75475 MHz	7.28 dBm	-22.72 dB

Date: 8.JUL.2022 01:56:02

Highest Band Edge / Full RB



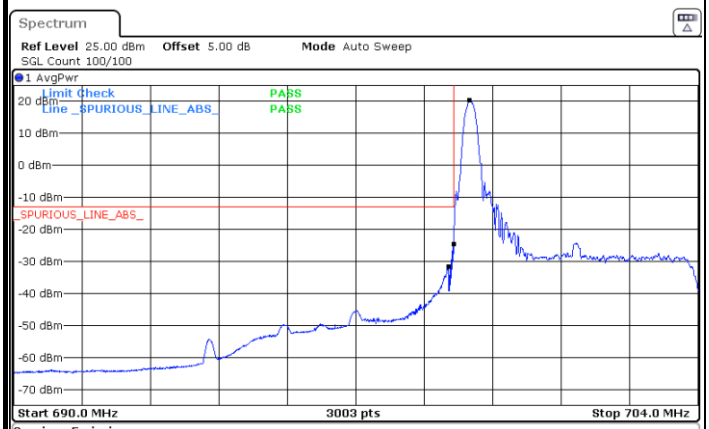
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.09141 MHz	7.36 dBm	-22.64 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00055 MHz	-37.10 dBm	-24.10 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.13112 MHz	-36.21 dBm	-23.21 dB

Date: 8.JUL.2022 02:08:50

LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB

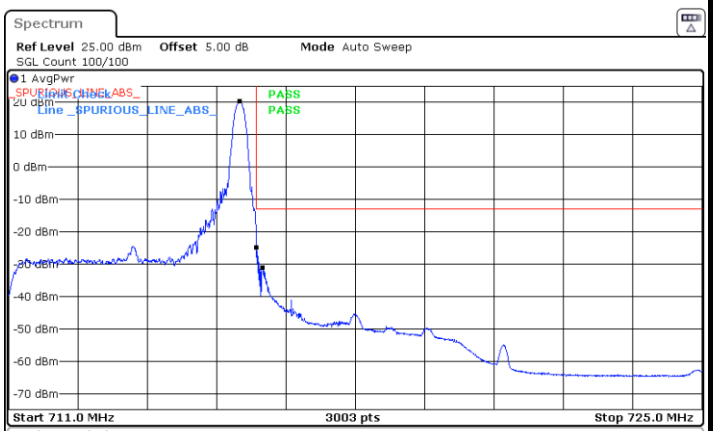


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-31.71 dBm	-18.71 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99895 MHz	-24.69 dBm	-11.69 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.31219 MHz	20.28 dBm	-9.72 dB

Date: 8.JUL.2022 01:49:07

Highest Band Edge / 1 RB

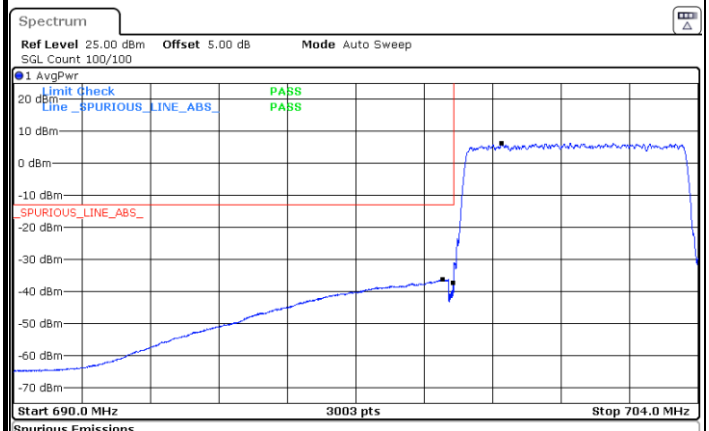


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.66783 MHz	20.38 dBm	-9.62 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00105 MHz	-24.96 dBm	-11.96 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-31.18 dBm	-18.18 dB

Date: 8.JUL.2022 02:02:07

Lowest Band Edge / Full RB

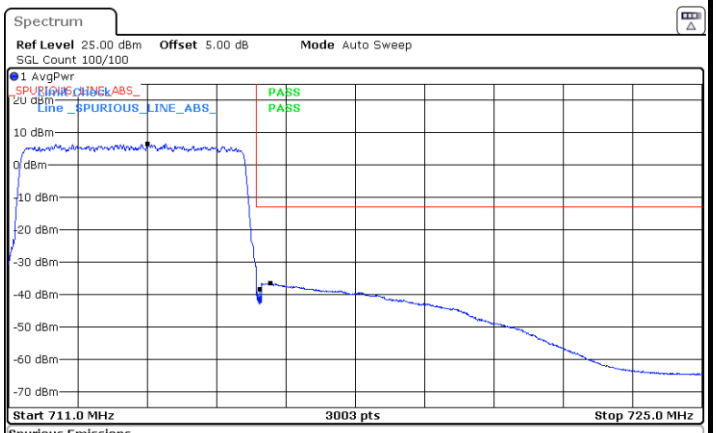


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.77108 MHz	-36.32 dBm	-23.32 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.98956 MHz	-37.35 dBm	-24.35 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.97153 MHz	6.29 dBm	-23.71 dB

Date: 8.JUL.2022 01:54:18

Highest Band Edge / Full RB



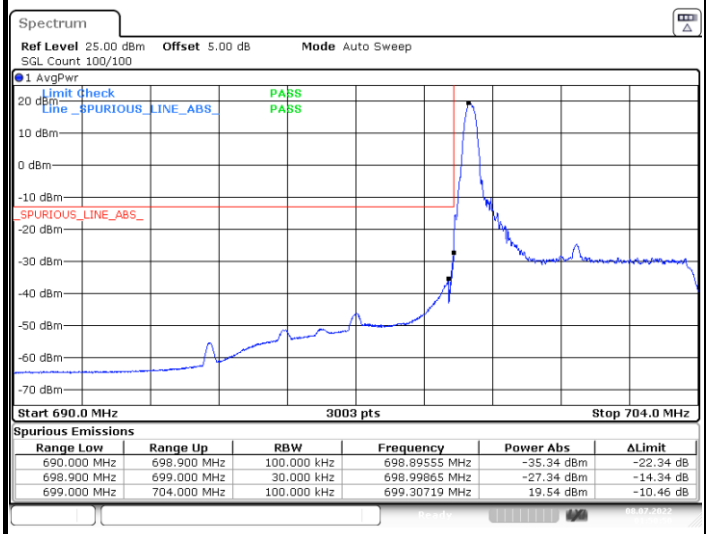
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	713.80470 MHz	6.59 dBm	-23.41 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.07767 MHz	-38.43 dBm	-25.43 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.27338 MHz	-36.47 dBm	-23.47 dB

Date: 8.JUL.2022 02:07:09

LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB

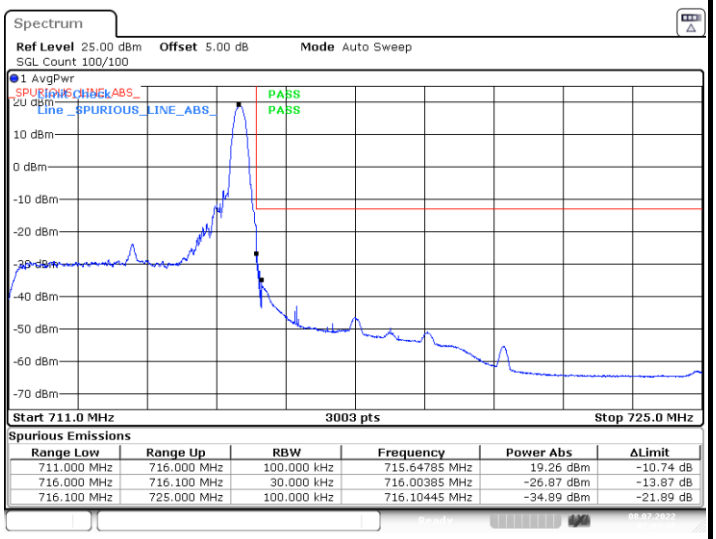


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-35.34 dBm	-22.34 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99865 MHz	-27.34 dBm	-14.34 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.30719 MHz	19.54 dBm	-10.46 dB

Date: 8.JUL.2022 01:50:51

Highest Band Edge / 1 RB

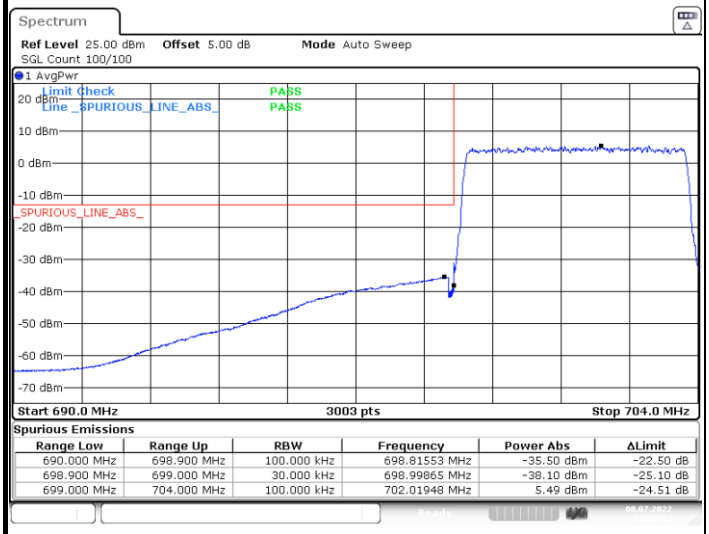


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.64785 MHz	19.26 dBm	-10.74 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00385 MHz	-26.87 dBm	-13.87 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-34.89 dBm	-21.89 dB

Date: 8.JUL.2022 02:03:48

Lowest Band Edge / Full RB

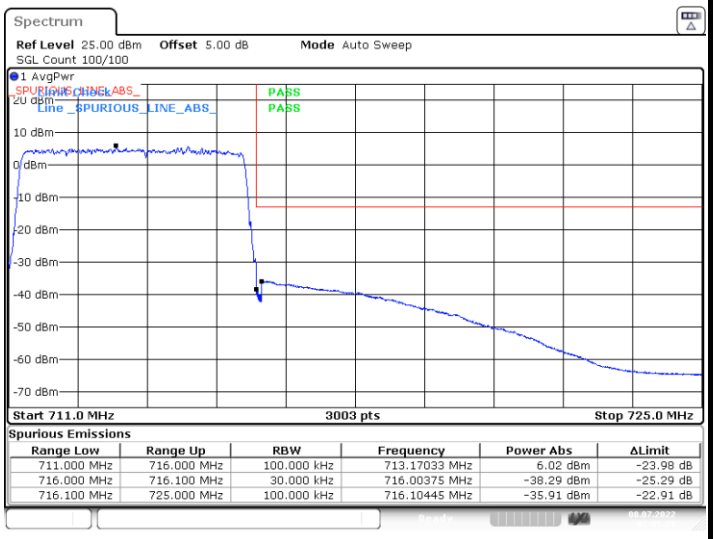


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.81553 MHz	-35.50 dBm	-22.50 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99865 MHz	-38.10 dBm	-25.10 dB
699.000 MHz	704.000 MHz	100.000 kHz	702.01948 MHz	5.49 dBm	-24.51 dB

Date: 8.JUL.2022 01:52:35

Highest Band Edge / Full RB



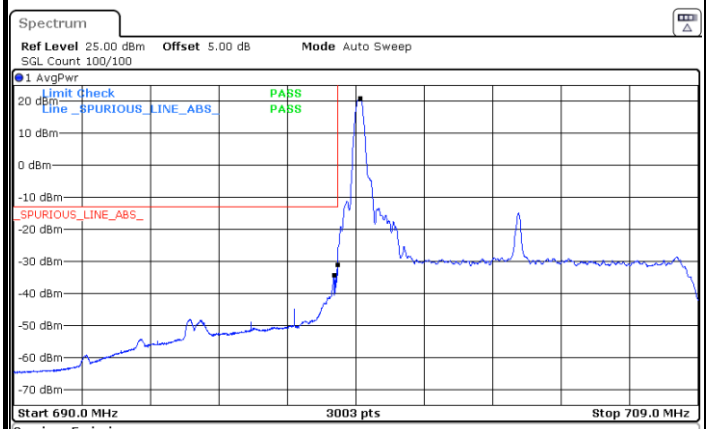
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	713.17033 MHz	6.02 dBm	-23.98 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00375 MHz	-38.29 dBm	-25.29 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-35.91 dBm	-22.91 dB

Date: 8.JUL.2022 02:05:28

LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

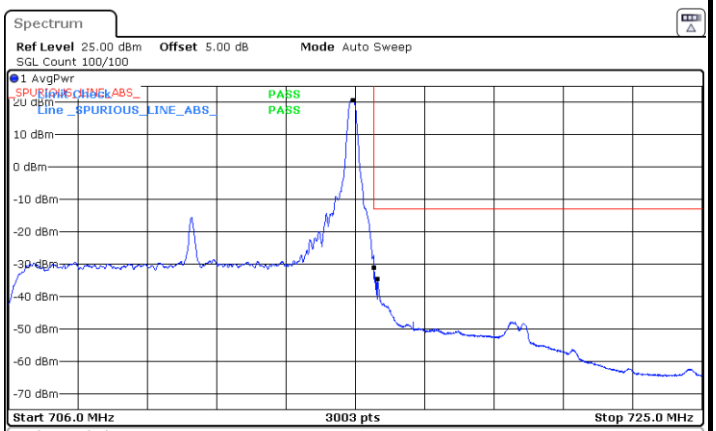


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-34.33 dBm	-21.33 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99835 MHz	-31.03 dBm	-18.03 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.61439 MHz	21.02 dBm	-8.98 dB

Date: 8.JUL.2022 02:11:57

Highest Band Edge / 1 RB

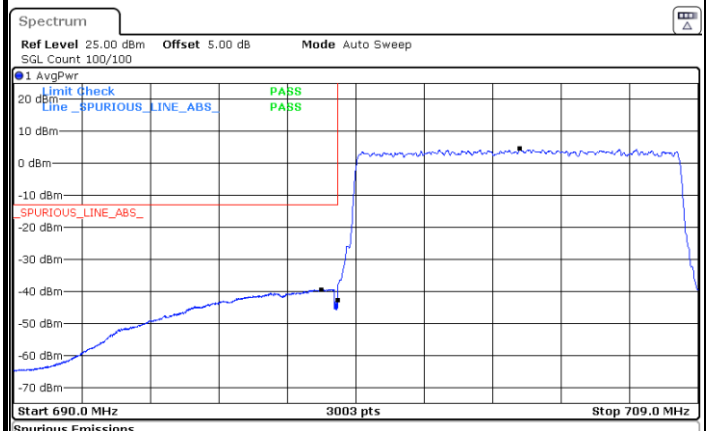


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.43556 MHz	20.75 dBm	-9.25 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00245 MHz	-31.22 dBm	-18.22 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-34.70 dBm	-21.70 dB

Date: 8.JUL.2022 02:24:59

Lowest Band Edge / Full RB

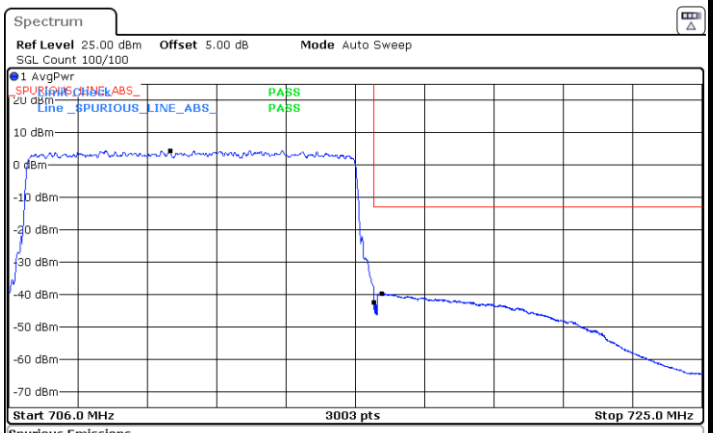


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.54880 MHz	-39.40 dBm	-26.40 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99925 MHz	-42.65 dBm	-29.65 dB
699.000 MHz	709.000 MHz	100.000 kHz	704.04995 MHz	4.60 dBm	-25.40 dB

Date: 8.JUL.2022 02:20:35

Highest Band Edge / Full RB



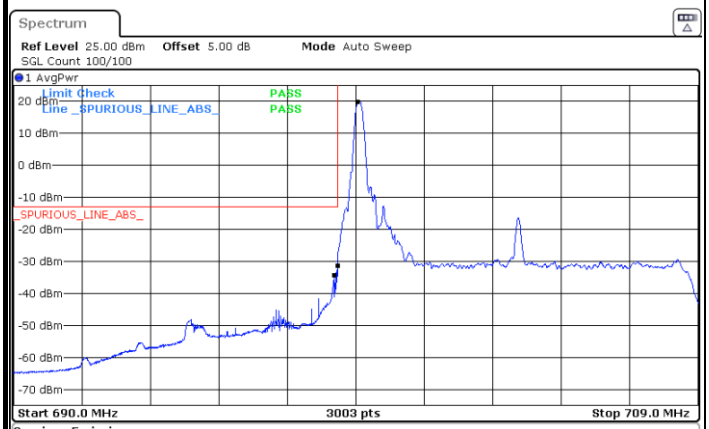
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	710.42058 MHz	4.44 dBm	-25.56 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00475 MHz	-42.46 dBm	-29.46 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.22003 MHz	-39.82 dBm	-26.82 dB

Date: 8.JUL.2022 02:33:24

LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

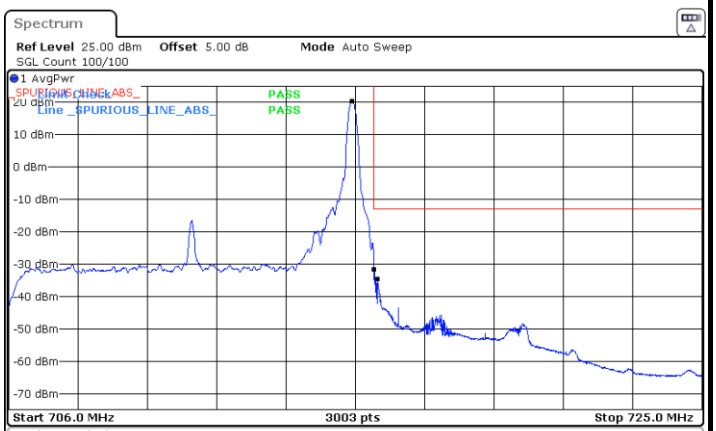


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-34.37 dBm	-21.37 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99885 MHz	-31.48 dBm	-18.48 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.55445 MHz	19.96 dBm	-10.04 dB

Date: 8.JUL.2022 02:13:40

Highest Band Edge / 1 RB

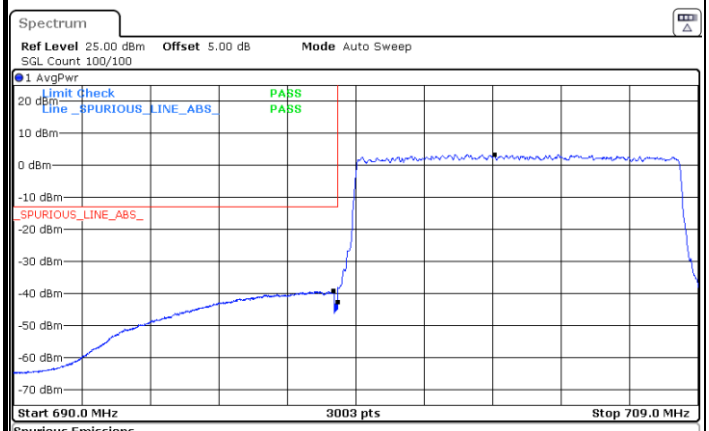


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.39560 MHz	20.33 dBm	-9.67 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00135 MHz	-31.63 dBm	-18.63 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-34.62 dBm	-21.62 dB

Date: 8.JUL.2022 02:26:40

Lowest Band Edge / Full RB

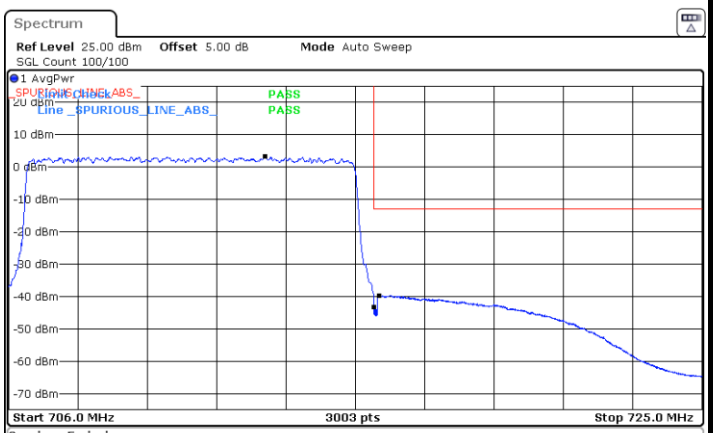


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-39.32 dBm	-26.32 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99665 MHz	-42.85 dBm	-29.85 dB
699.000 MHz	709.000 MHz	100.000 kHz	703.34066 MHz	3.42 dBm	-26.58 dB

Date: 8.JUL.2022 02:18:52

Highest Band Edge / Full RB



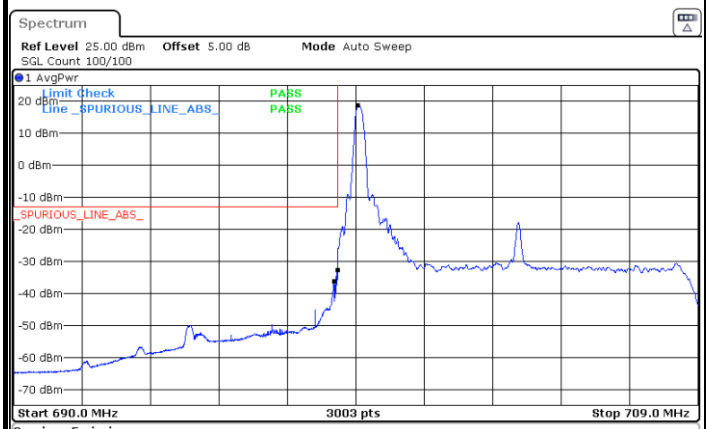
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	713.01798 MHz	3.39 dBm	-26.61 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00305 MHz	-43.18 dBm	-30.18 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.15779 MHz	-39.67 dBm	-26.67 dB

Date: 8.JUL.2022 02:31:43

LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

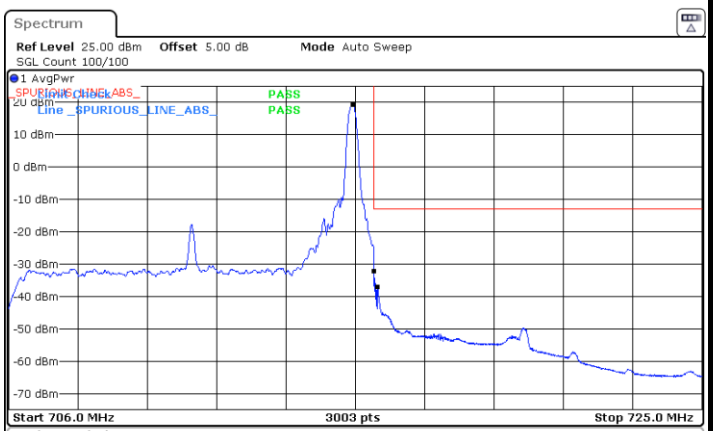


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-36.23 dBm	-23.23 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99795 MHz	-32.79 dBm	-19.79 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.54446 MHz	18.87 dBm	-11.13 dB

Date: 8.JUL.2022 02:15:24

Highest Band Edge / 1 RB

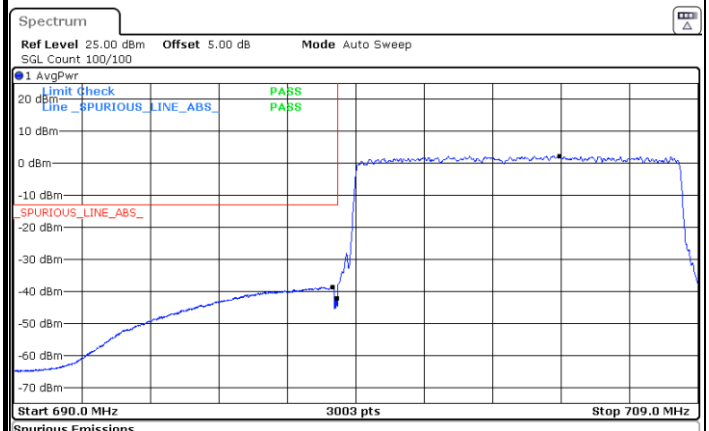


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.43556 MHz	19.21 dBm	-10.79 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00095 MHz	-32.28 dBm	-19.28 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-36.96 dBm	-23.96 dB

Date: 8.JUL.2022 02:28:21

Lowest Band Edge / Full RB

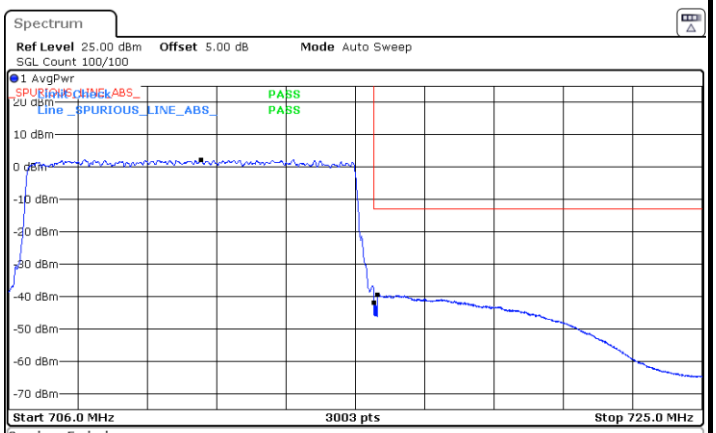


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85110 MHz	-38.70 dBm	-25.70 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.97767 MHz	-42.14 dBm	-29.14 dB
699.000 MHz	709.000 MHz	100.000 kHz	705.13886 MHz	2.33 dBm	-27.67 dB

Date: 8.JUL.2022 02:17:08

Highest Band Edge / Full RB



Spurious Emissions

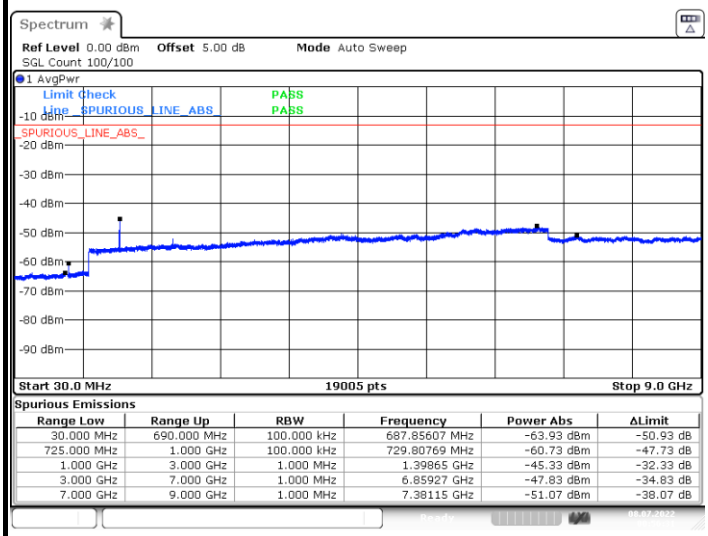
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	711.26973 MHz	2.20 dBm	-27.80 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01663 MHz	-41.87 dBm	-28.87 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-39.37 dBm	-26.37 dB

Date: 8.JUL.2022 02:30:02

Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

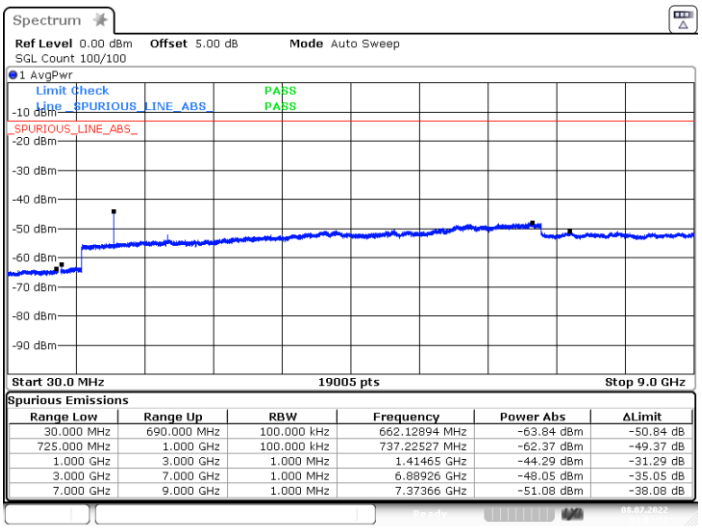


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.85607 MHz	-63.93 dBm	-50.93 dB
725.000 MHz	1.000 GHz	100.000 kHz	729.80769 MHz	-60.73 dBm	-47.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-45.33 dBm	-32.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85927 GHz	-47.83 dBm	-34.83 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.38115 GHz	-51.07 dBm	-38.07 dB

Date: 8.JUL.2022 00:56:31

Middle Channel / QPSK

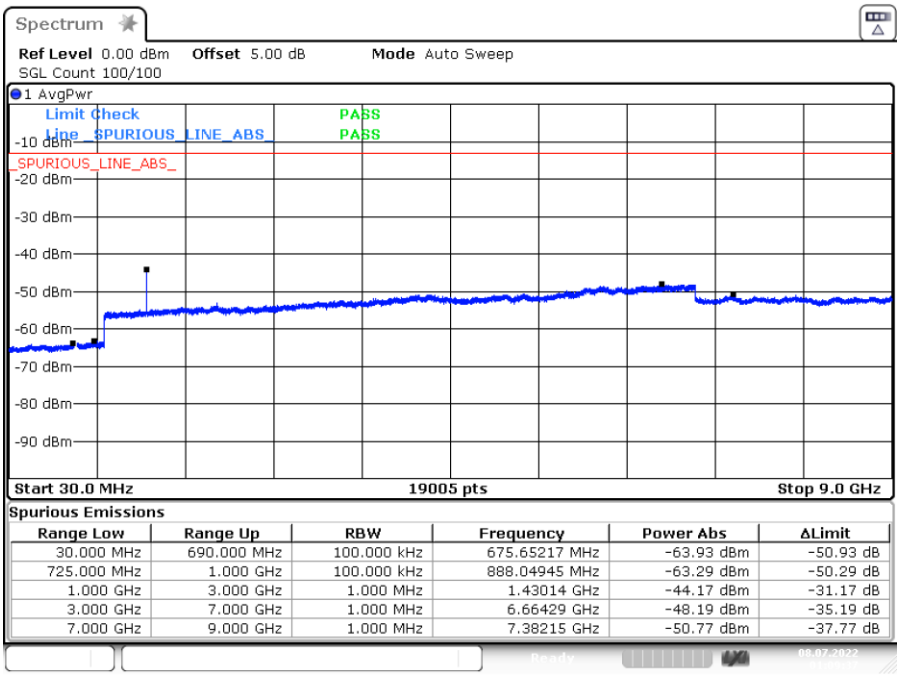


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	662.12894 MHz	-63.84 dBm	-50.84 dB
725.000 MHz	1.000 GHz	100.000 kHz	737.22527 MHz	-62.37 dBm	-49.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41465 GHz	-44.29 dBm	-31.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88926 GHz	-48.05 dBm	-35.05 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.37366 GHz	-51.08 dBm	-38.08 dB

Date: 8.JUL.2022 03:03:11

Highest Channel / QPSK



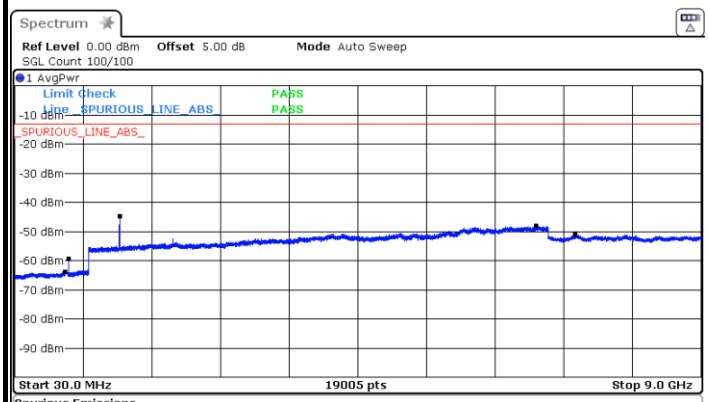
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	675.65217 MHz	-63.93 dBm	-50.93 dB
725.000 MHz	1.000 GHz	100.000 kHz	888.04945 MHz	-63.29 dBm	-50.29 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-44.17 dBm	-31.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.66429 GHz	-48.19 dBm	-35.19 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.38215 GHz	-50.77 dBm	-37.77 dB

Date: 8.JUL.2022 01:09:38

LTE Band 12 / 3MHz

Lowest Channel / QPSK

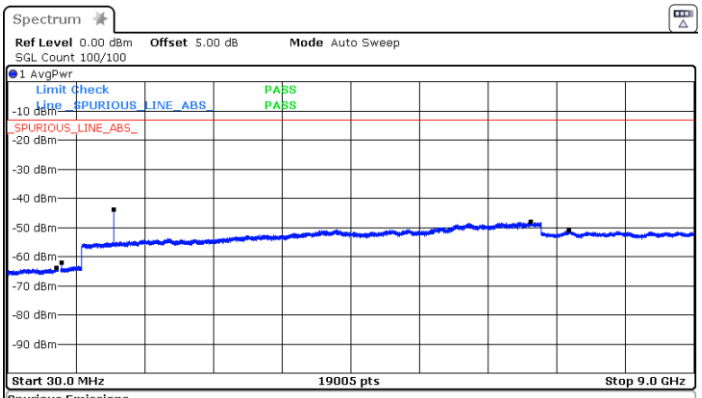


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.53673 MHz	-63.84 dBm	-50.84 dB
725.000 MHz	1.000 GHz	100.000 kHz	730.90659 MHz	-59.45 dBm	-46.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.63 dBm	-31.63 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83777 GHz	-48.17 dBm	-35.17 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.35766 GHz	-51.17 dBm	-38.17 dB

Date: 8.JUL.2022 01:21:05

Middle Channel / QPSK

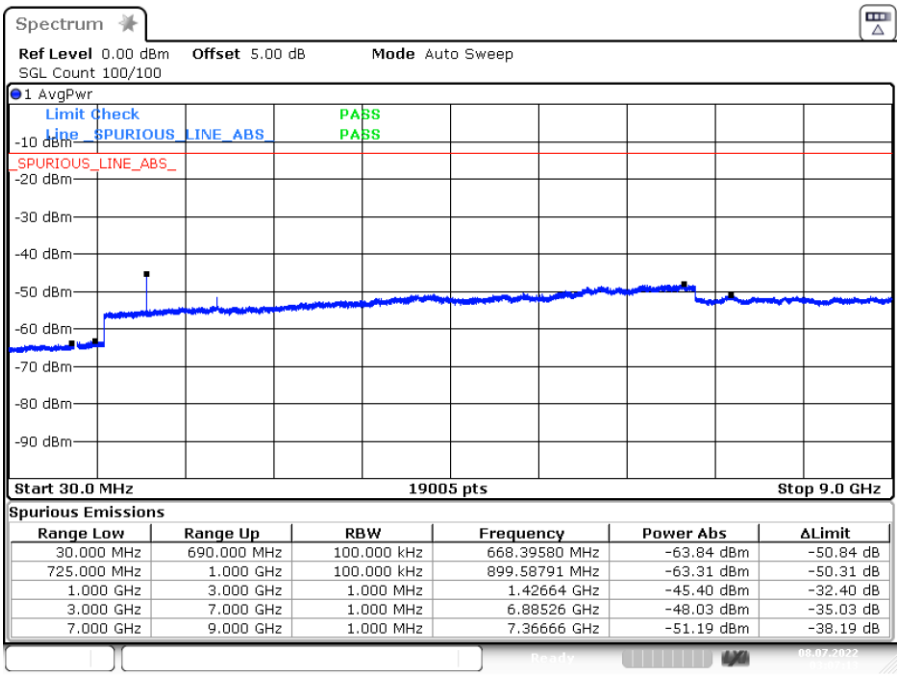


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	661.46927 MHz	-64.02 dBm	-51.02 dB
725.000 MHz	1.000 GHz	100.000 kHz	738.59890 MHz	-61.99 dBm	-48.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-43.87 dBm	-30.87 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86677 GHz	-48.11 dBm	-35.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.36866 GHz	-50.95 dBm	-37.95 dB

Date: 8.JUL.2022 03:05:19

Highest Channel / QPSK



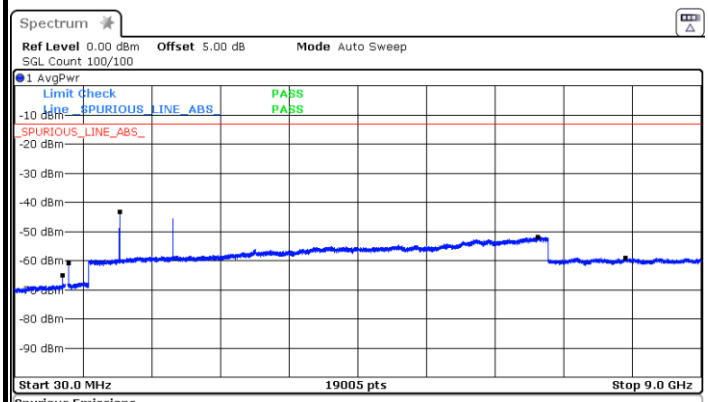
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	668.39580 MHz	-63.84 dBm	-50.84 dB
725.000 MHz	1.000 GHz	100.000 kHz	899.58791 MHz	-63.31 dBm	-50.31 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-45.40 dBm	-32.40 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88526 GHz	-48.03 dBm	-35.03 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.36666 GHz	-51.19 dBm	-38.19 dB

Date: 8.JUL.2022 03:07:14

LTE Band 12 / 5MHz

Lowest Channel / QPSK

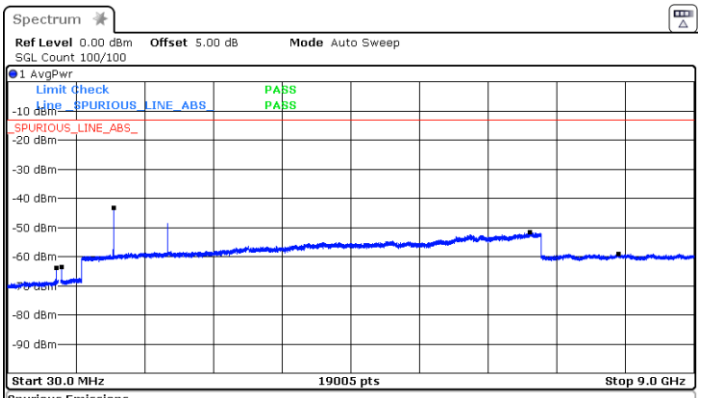


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	654.54273 MHz	-65.11 dBm	-52.11 dB
725.000 MHz	1.000 GHz	100.000 kHz	731.18132 MHz	-60.82 dBm	-47.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-43.29 dBm	-30.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86427 GHz	-51.93 dBm	-38.93 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01450 GHz	-59.06 dBm	-46.06 dB

Date: 8.JUL.2022 01:45:39

Middle Channel / QPSK

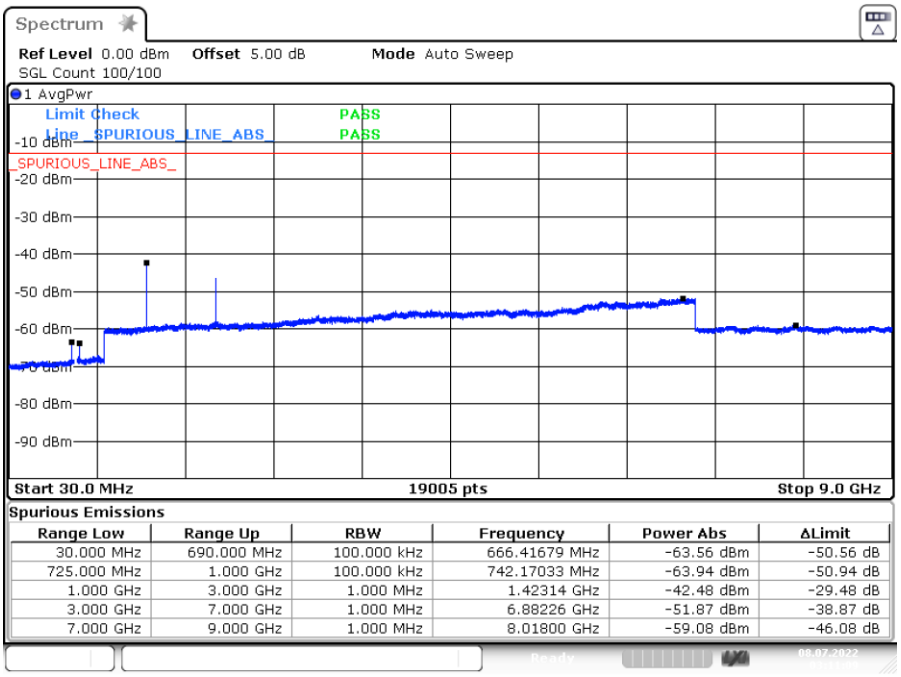


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	660.47976 MHz	-63.82 dBm	-50.82 dB
725.000 MHz	1.000 GHz	100.000 kHz	739.14835 MHz	-63.46 dBm	-50.46 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-43.13 dBm	-30.13 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85677 GHz	-51.75 dBm	-38.75 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01200 GHz	-59.12 dBm	-46.12 dB

Date: 8.JUL.2022 03:09:25

Highest Channel / QPSK



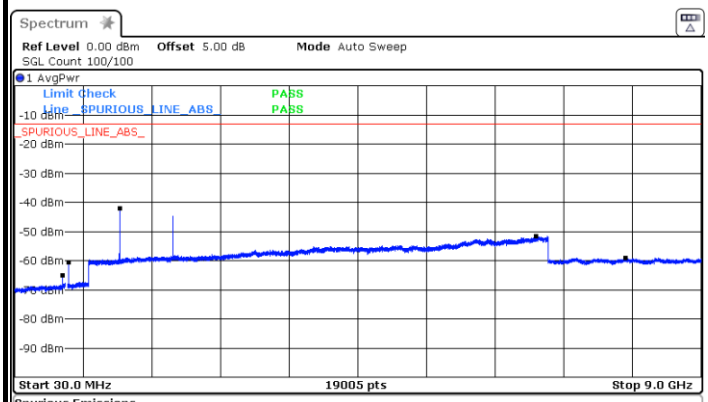
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	666.41679 MHz	-63.56 dBm	-50.56 dB
725.000 MHz	1.000 GHz	100.000 kHz	742.17033 MHz	-63.94 dBm	-50.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-42.48 dBm	-29.48 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88226 GHz	-51.87 dBm	-38.87 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01800 GHz	-59.08 dBm	-46.08 dB

Date: 8.JUL.2022 03:11:09

LTE Band 12 / 10MHz

Lowest Channel / QPSK

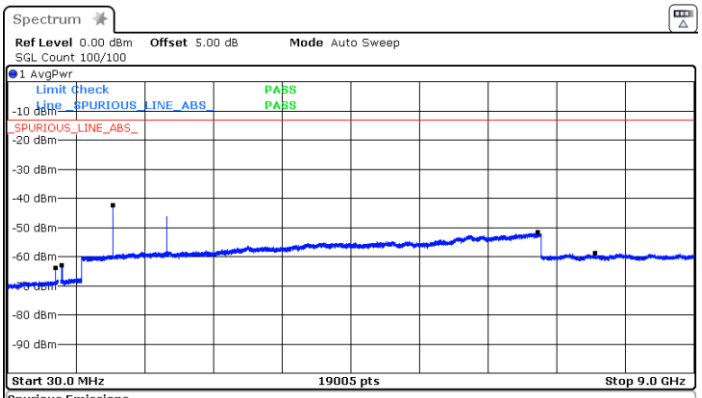


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	654.54273 MHz	-64.96 dBm	-51.96 dB
725.000 MHz	1.000 GHz	100.000 kHz	730.90659 MHz	-60.70 dBm	-47.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-42.13 dBm	-29.13 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84577 GHz	-51.64 dBm	-38.64 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01100 GHz	-59.01 dBm	-46.01 dB

Date: 8.JUL.2022 03:13:10

Middle Channel / QPSK

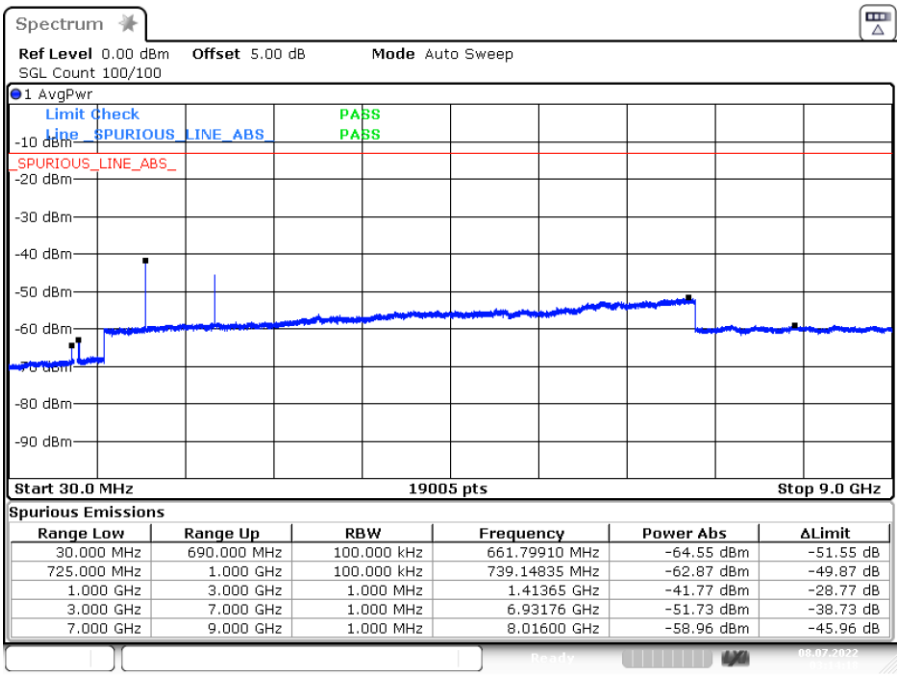


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	658.17091 MHz	-63.94 dBm	-50.94 dB
725.000 MHz	1.000 GHz	100.000 kHz	739.69780 MHz	-62.96 dBm	-49.96 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-42.35 dBm	-29.35 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95576 GHz	-51.75 dBm	-38.75 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.70157 GHz	-58.89 dBm	-45.89 dB

Date: 8.JUL.2022 03:15:26

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	661.79910 MHz	-64.55 dBm	-51.55 dB
725.000 MHz	1.000 GHz	100.000 kHz	739.14835 MHz	-62.87 dBm	-49.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-41.77 dBm	-28.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93176 GHz	-51.73 dBm	-38.73 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01600 GHz	-58.96 dBm	-45.96 dB

Date: 8.JUL.2022 03:14:18

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0031	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

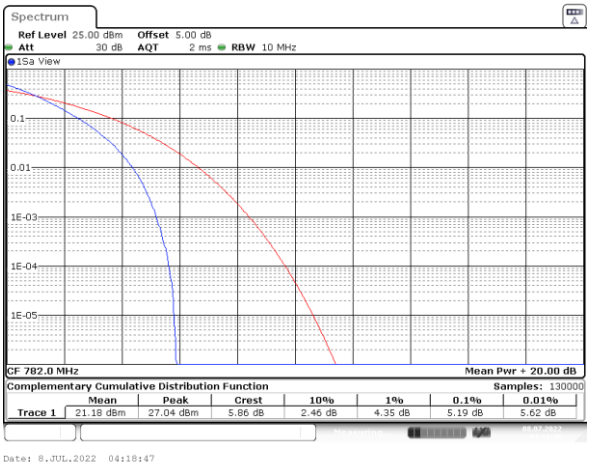
LTE Band 13

Peak-to-Average Ratio

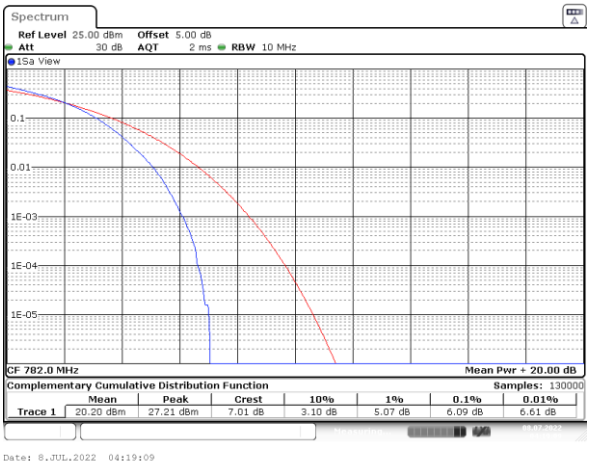
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.19	6.09	6.52	PASS

LTE Band 13 / 10MHz

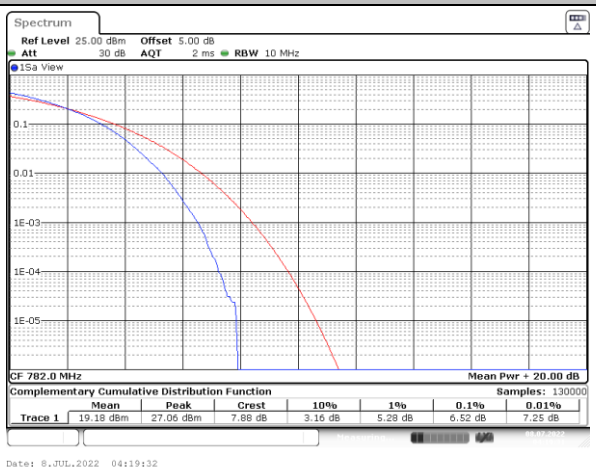
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

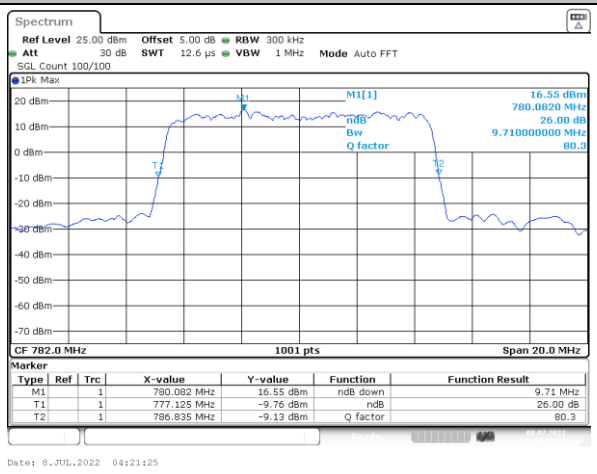


26dB Bandwidth

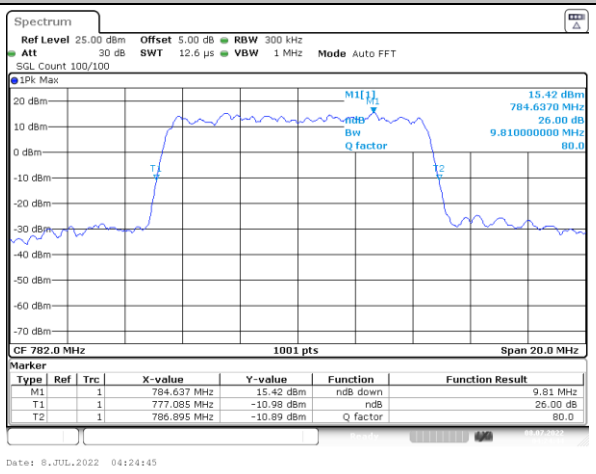
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.71	9.81

LTE Band 13

Middle Channel / 10MHz / QPSK

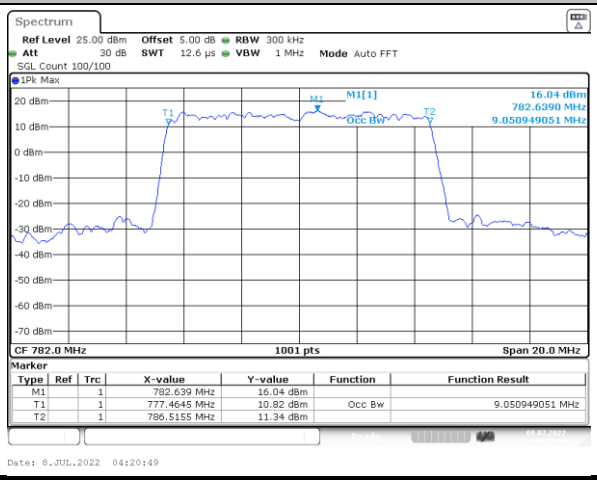
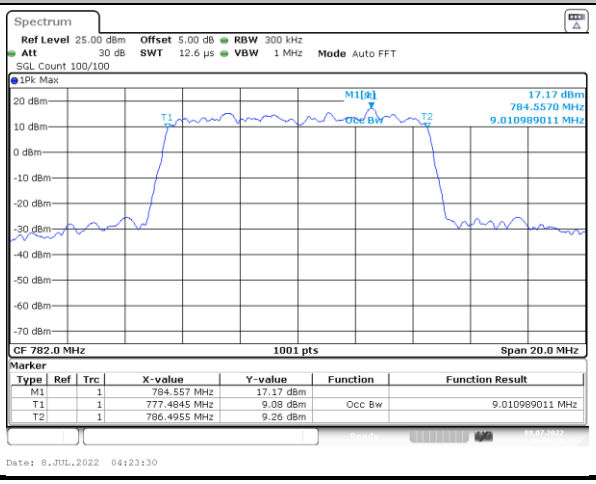


Middle Channel / 10MHz / 16QAM



Occupied Bandwidth

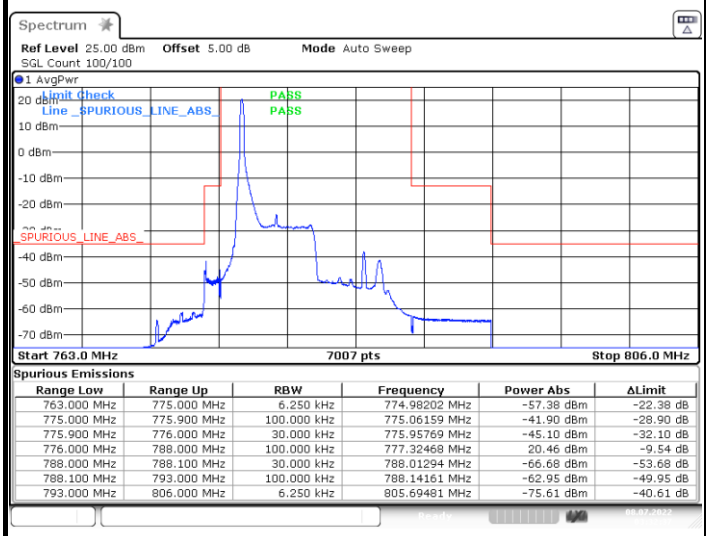
Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	9.01

LTE Band 13	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM
	

Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

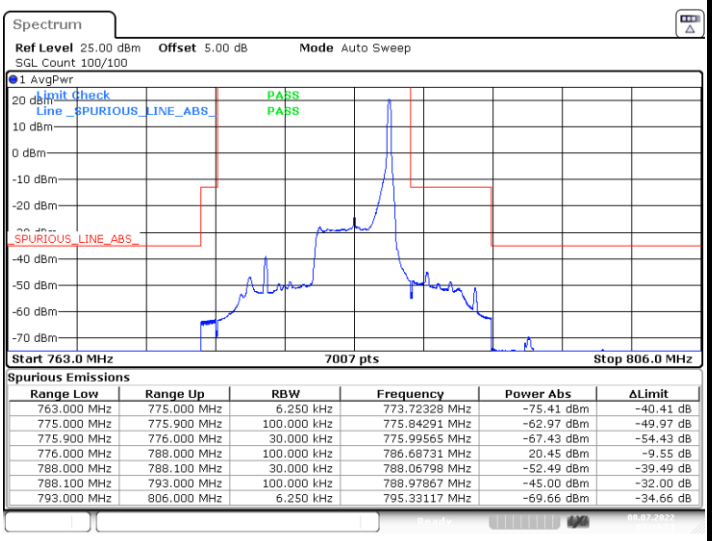


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.98202 MHz	-57.38 dBm	-22.38 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.06159 MHz	-41.90 dBm	-28.90 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95769 MHz	-45.10 dBm	-32.10 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.32468 MHz	20.46 dBm	-9.54 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01294 MHz	-66.68 dBm	-53.68 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.14161 MHz	-62.95 dBm	-49.95 dB
793.000 MHz	806.000 MHz	6.250 kHz	805.69481 MHz	-75.61 dBm	-40.61 dB

Date: 8.JUL.2022 03:32:38

Highest Band Edge / 1 RB

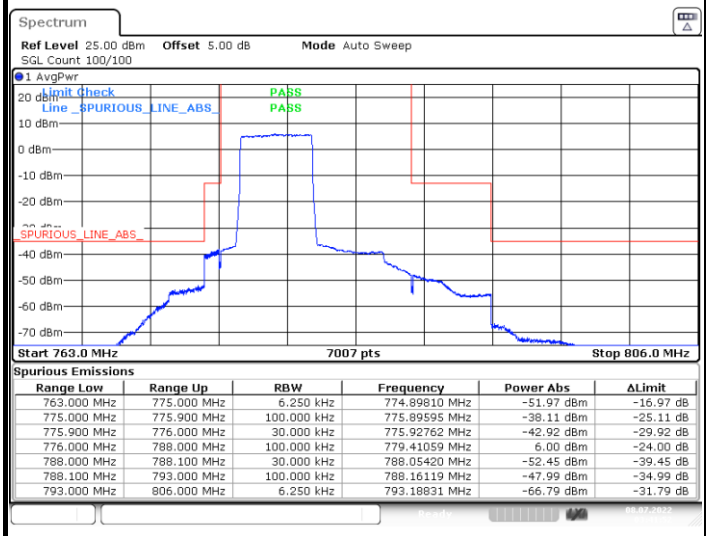


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.72328 MHz	-75.41 dBm	-40.41 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.84291 MHz	-62.97 dBm	-49.97 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99565 MHz	-67.43 dBm	-54.43 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.68731 MHz	20.45 dBm	-9.55 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06798 MHz	-52.49 dBm	-39.49 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.97867 MHz	-45.00 dBm	-32.00 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.33117 MHz	-69.66 dBm	-34.66 dB

Date: 8.JUL.2022 03:44:51

Lowest Band Edge / Full RB

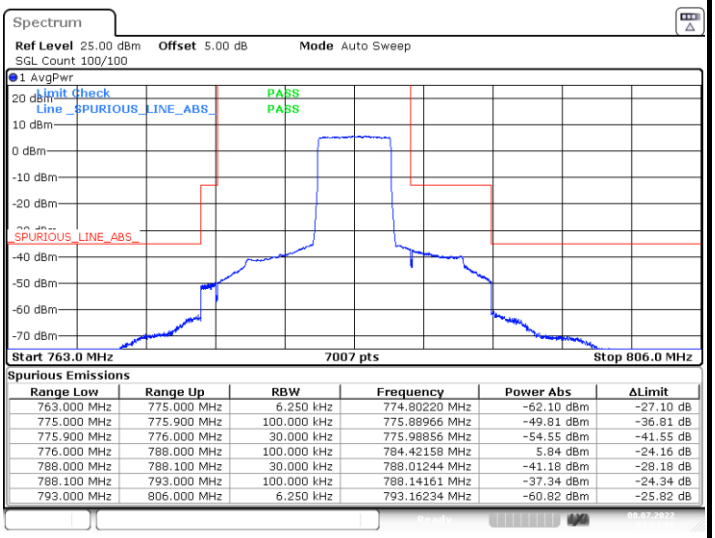


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.89810 MHz	-51.97 dBm	-16.97 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89595 MHz	-38.11 dBm	-25.11 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92762 MHz	-42.92 dBm	-29.92 dB
776.000 MHz	788.000 MHz	100.000 kHz	779.41059 MHz	6.00 dBm	-24.00 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05420 MHz	-52.45 dBm	-39.45 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.16119 MHz	-47.99 dBm	-34.99 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.18831 MHz	-66.79 dBm	-31.79 dB

Date: 8.JUL.2022 03:41:52

Highest Band Edge / Full RB



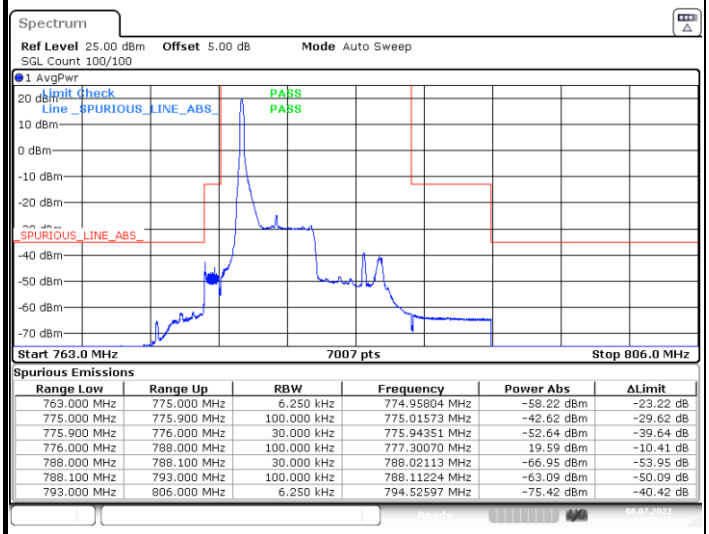
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.80220 MHz	-62.10 dBm	-27.10 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88966 MHz	-49.81 dBm	-36.81 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98856 MHz	-54.55 dBm	-41.55 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.42158 MHz	5.84 dBm	-24.16 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01244 MHz	-41.18 dBm	-28.18 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.14161 MHz	-37.34 dBm	-24.34 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.16234 MHz	-60.82 dBm	-25.82 dB

Date: 8.JUL.2022 03:54:06

LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

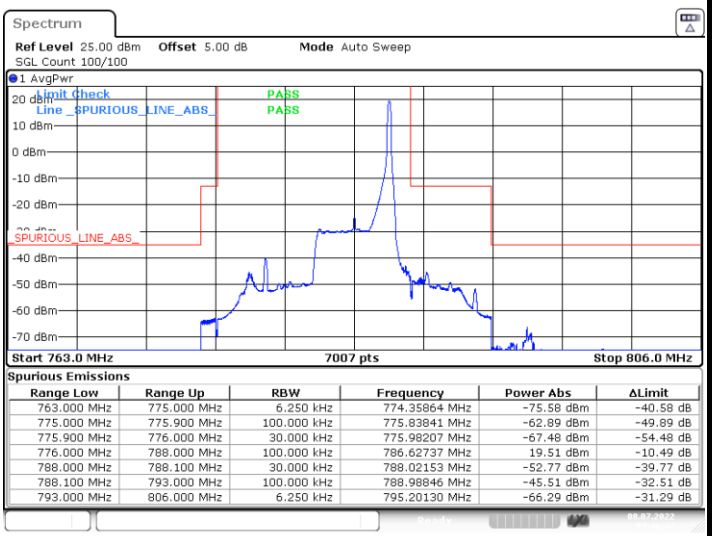


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.95804 MHz	-58.22 dBm	-23.22 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.01573 MHz	-42.62 dBm	-29.62 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.94351 MHz	-52.64 dBm	-39.64 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.30070 MHz	19.59 dBm	-10.41 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02113 MHz	-66.95 dBm	-53.95 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.11224 MHz	-63.09 dBm	-50.09 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.52597 MHz	-75.42 dBm	-40.42 dB

Date: 8.JUL.2022 03:34:29

Highest Band Edge / 1 RB

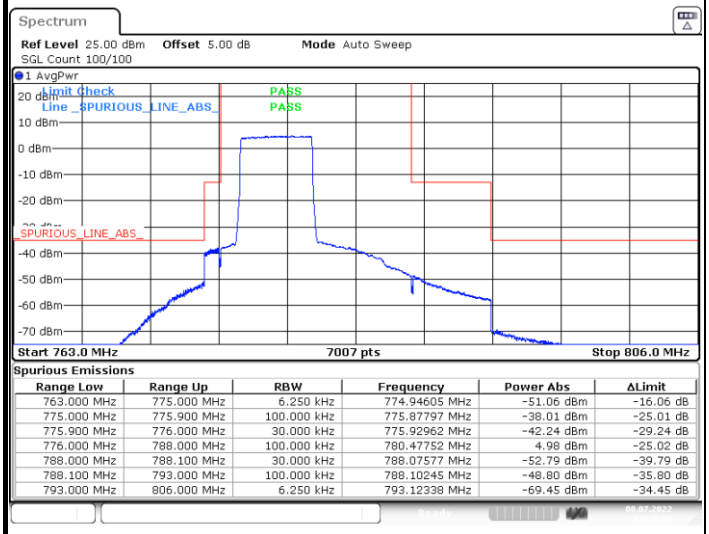


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.35864 MHz	-75.58 dBm	-40.58 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.83841 MHz	-62.89 dBm	-49.89 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98207 MHz	-67.48 dBm	-54.48 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.62737 MHz	19.51 dBm	-10.49 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02153 MHz	-52.77 dBm	-39.77 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.98846 MHz	-45.51 dBm	-32.51 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.20130 MHz	-66.29 dBm	-31.29 dB

Date: 8.JUL.2022 03:46:43

Lowest Band Edge / Full RB

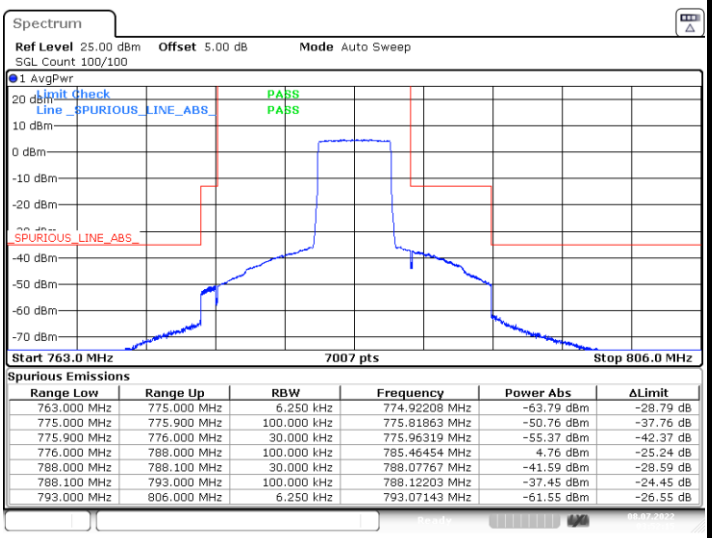


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.94605 MHz	-51.06 dBm	-16.06 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87797 MHz	-38.01 dBm	-25.01 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92962 MHz	-42.24 dBm	-29.24 dB
776.000 MHz	788.000 MHz	100.000 kHz	780.47752 MHz	4.98 dBm	-25.02 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07577 MHz	-52.79 dBm	-39.79 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-48.80 dBm	-35.80 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.12338 MHz	-69.45 dBm	-34.45 dB

Date: 8.JUL.2022 03:40:01

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.92208 MHz	-63.79 dBm	-28.79 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.81863 MHz	-50.76 dBm	-37.76 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96319 MHz	-55.37 dBm	-42.37 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.46454 MHz	4.76 dBm	-25.24 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07767 MHz	-41.59 dBm	-28.59 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.12203 MHz	-37.45 dBm	-24.45 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.07143 MHz	-61.55 dBm	-26.55 dB

Date: 8.JUL.2022 03:52:15