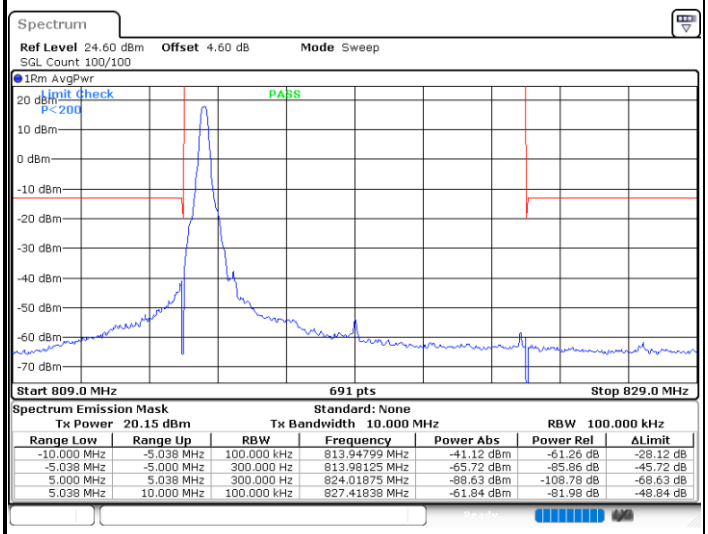
LTE Band 26 / 10MHz / 64QAM

Middle Band Edge / 1 RB

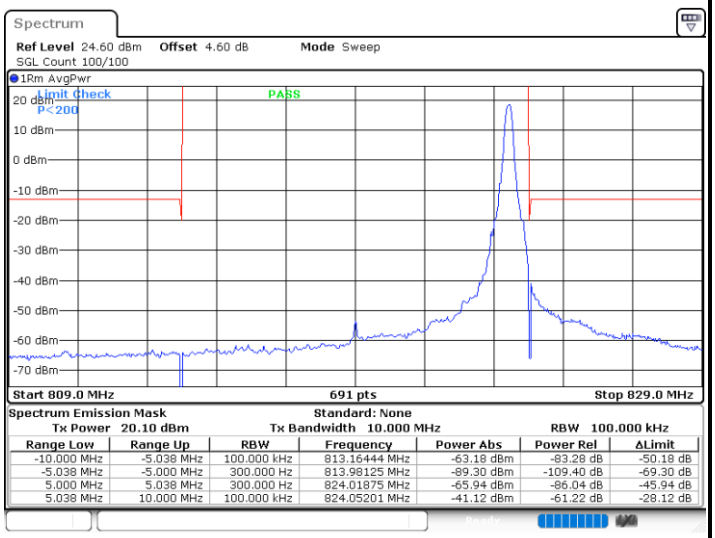


Spectrum Emission Mask Standard: None
Tx Power 20.15 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.94799 MHz	-41.12 dBm	-61.26 dB	-28.12 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-65.72 dBm	-85.86 dB	-45.72 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-88.63 dBm	-108.78 dB	-68.63 dB
5.038 MHz	10.000 MHz	100.000 kHz	827.41838 MHz	-61.84 dBm	-81.98 dB	-48.84 dB

Date: 8.JUL.2024 15:12:49

Middle Band Edge / 1 RB max

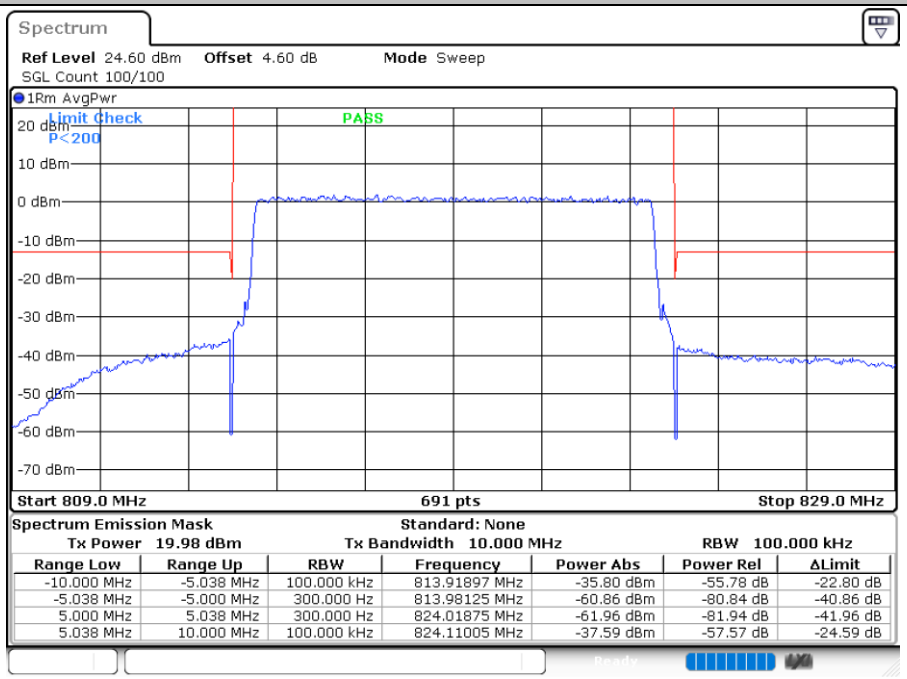


Spectrum Emission Mask Standard: None
Tx Power 20.10 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.16444 MHz	-63.18 dBm	-83.28 dB	-50.18 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-89.30 dBm	-109.40 dB	-69.30 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-65.94 dBm	-86.04 dB	-45.94 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.05201 MHz	-41.12 dBm	-61.22 dB	-28.12 dB

Date: 8.JUL.2024 15:17:00

Band Edge / Full RB



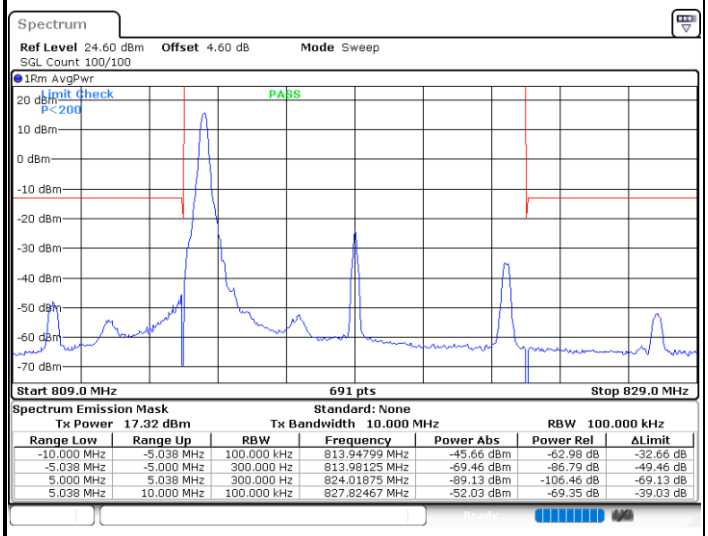
Spectrum Emission Mask Standard: None
Tx Power 19.98 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.91897 MHz	-35.80 dBm	-55.78 dB	-22.80 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-60.86 dBm	-80.84 dB	-40.86 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-61.96 dBm	-81.94 dB	-41.96 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.11005 MHz	-37.59 dBm	-57.57 dB	-24.59 dB

Date: 8.JUL.2024 15:20:41

LTE Band 26 / 10MHz / 256QAM

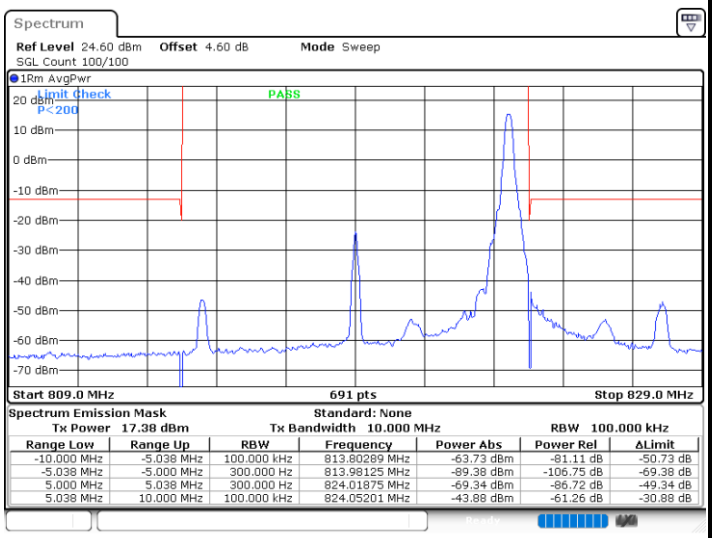
Middle Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.94799 MHz	-45.66 dBm	-62.98 dB	-32.66 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-69.46 dBm	-86.79 dB	-49.46 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-89.13 dBm	-106.46 dB	-69.13 dB
5.038 MHz	10.000 MHz	100.000 kHz	827.82467 MHz	-52.03 dBm	-69.35 dB	-39.03 dB

Date: 8.JUL.2024 15:13:53

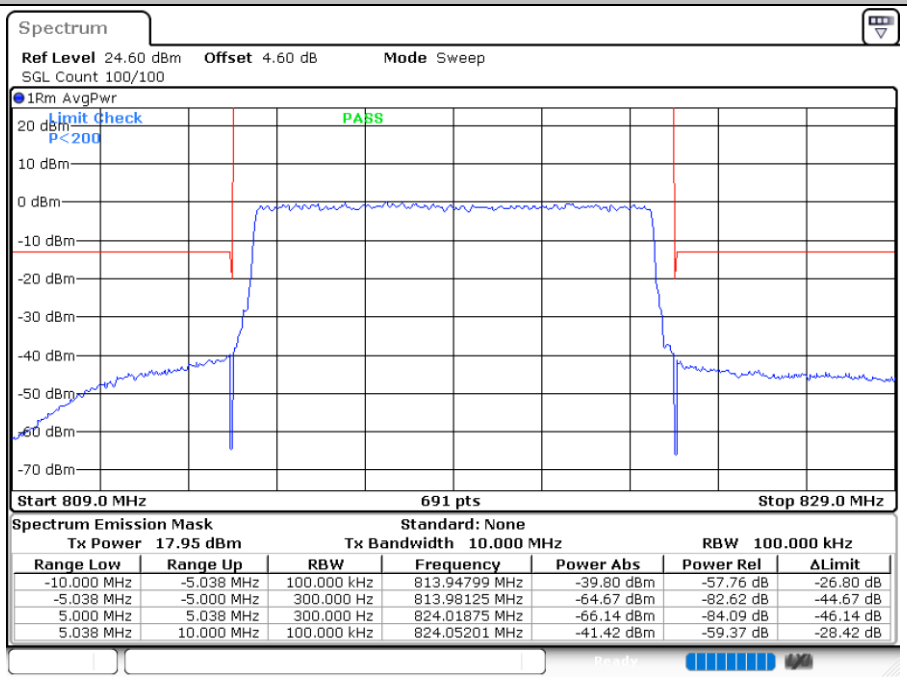
Middle Band Edge / 1 RB max



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.80289 MHz	-63.73 dBm	-81.11 dB	-50.73 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-89.38 dBm	-106.75 dB	-69.38 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-69.34 dBm	-86.72 dB	-49.34 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.05201 MHz	-43.88 dBm	-61.26 dB	-30.88 dB

Date: 8.JUL.2024 15:17:55

Band Edge / Full RB

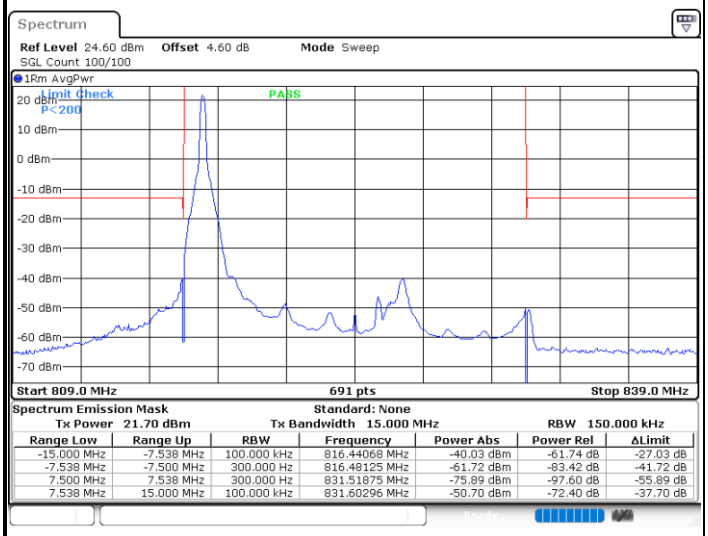


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.94799 MHz	-39.80 dBm	-57.76 dB	-26.80 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-64.67 dBm	-82.62 dB	-44.67 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-66.14 dBm	-84.09 dB	-46.14 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.05201 MHz	-41.42 dBm	-59.37 dB	-28.42 dB

Date: 8.JUL.2024 15:21:36

LTE Band 26 / 15MHz / QPSK

Highest Band Edge / 1 RB

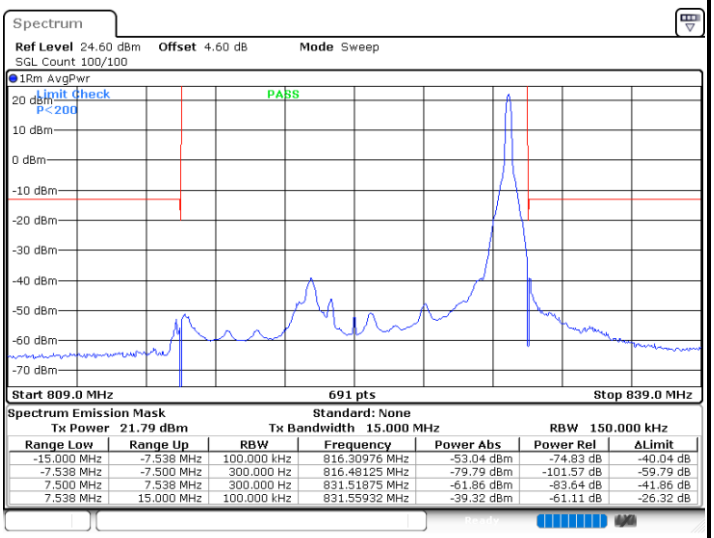


Spectrum Emission Mask Standard: None
Tx Power 21.70 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-40.03 dBm	-61.74 dB	-27.03 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-61.72 dBm	-83.42 dB	-41.72 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-75.89 dBm	-97.60 dB	-55.89 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.60296 MHz	-50.70 dBm	-72.40 dB	-37.70 dB

Date: 8.JUL.2024 15:24:58

Highest Band Edge / 1 RB max

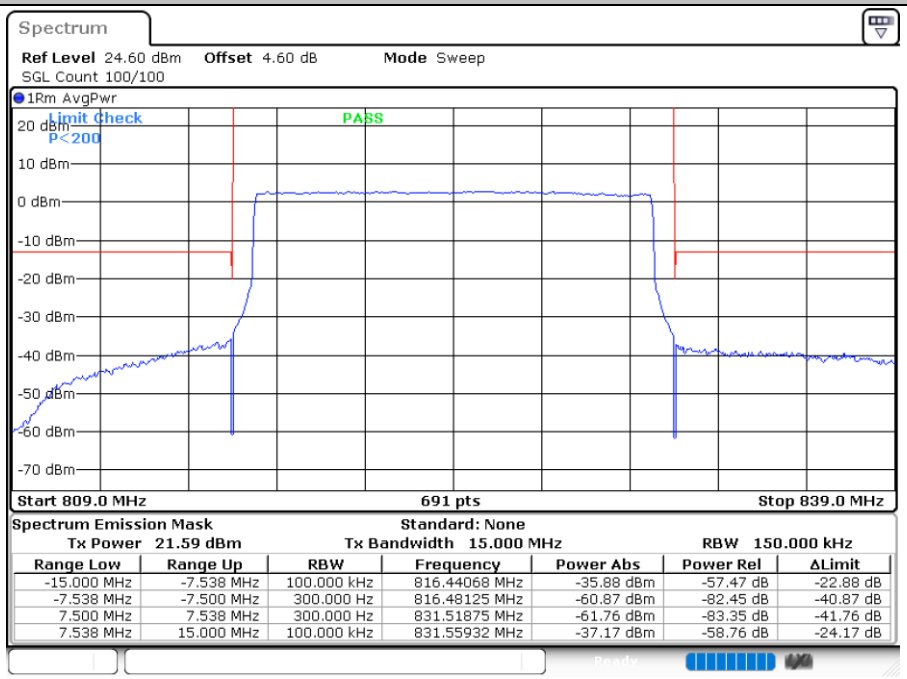


Spectrum Emission Mask Standard: None
Tx Power 21.79 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.30976 MHz	-53.04 dBm	-74.83 dB	-40.04 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-79.79 dBm	-101.57 dB	-59.79 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-61.86 dBm	-83.64 dB	-41.86 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-39.32 dBm	-61.11 dB	-26.32 dB

Date: 8.JUL.2024 15:28:36

Band Edge / Full RB



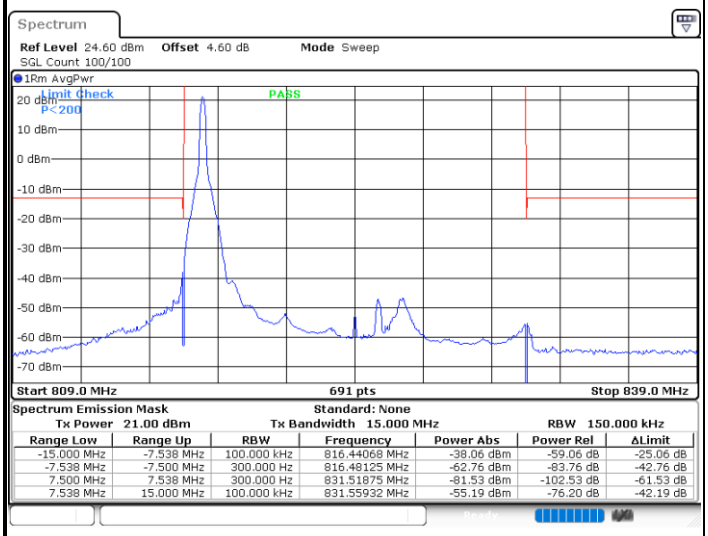
Spectrum Emission Mask Standard: None
Tx Power 21.59 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-35.88 dBm	-57.47 dB	-22.88 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-60.87 dBm	-82.45 dB	-40.87 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-61.76 dBm	-83.35 dB	-41.76 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-37.17 dBm	-58.76 dB	-24.17 dB

Date: 8.JUL.2024 15:32:17

LTE Band 26 / 15MHz / 16QAM

Highest Band Edge / 1 RB



Spectrum Emission Mask Standard: None
Tx Power 21.00 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-38.06 dBm	-59.06 dB	-25.06 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-62.76 dBm	-83.76 dB	-42.76 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-81.53 dBm	-102.53 dB	-61.53 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-55.19 dBm	-76.20 dB	-42.19 dB

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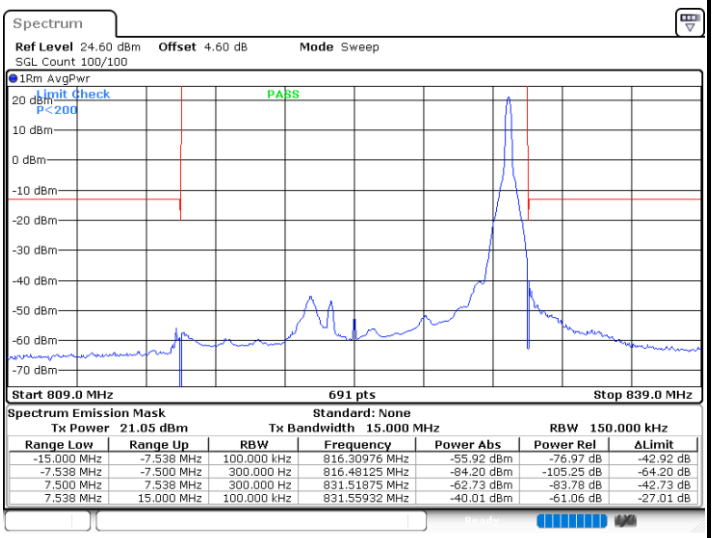
Highest Band Edge / 1 RB max



Spectrum Emission Mask Standard: None
Tx Power 21.05 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.30976 MHz	-55.92 dBm	-76.97 dB	-42.92 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-84.20 dBm	-105.25 dB	-64.20 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-62.73 dBm	-83.78 dB	-42.73 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-40.01 dBm	-61.06 dB	-27.01 dB

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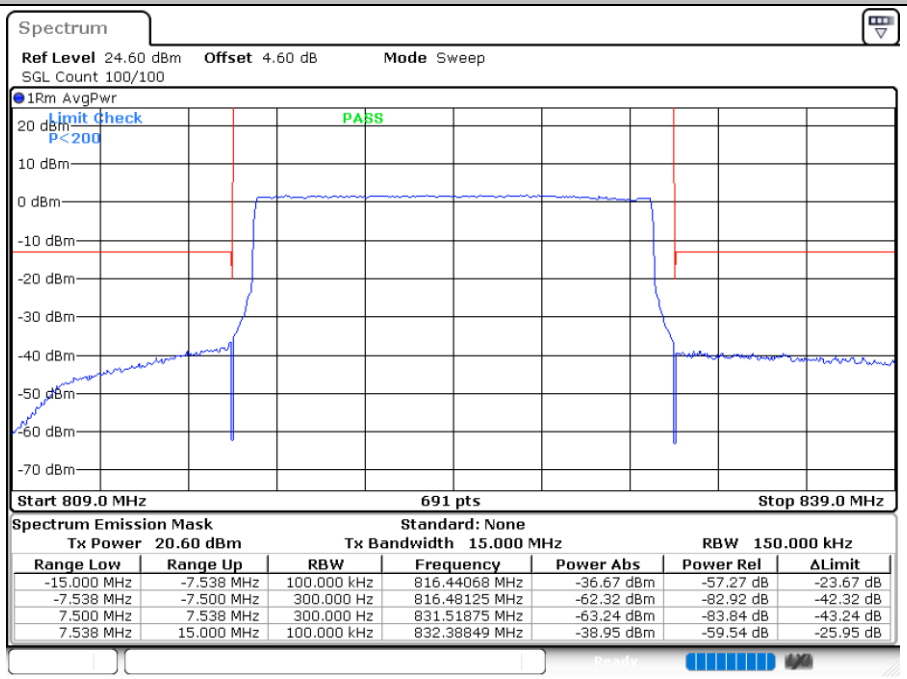
Band Edge / Full RB



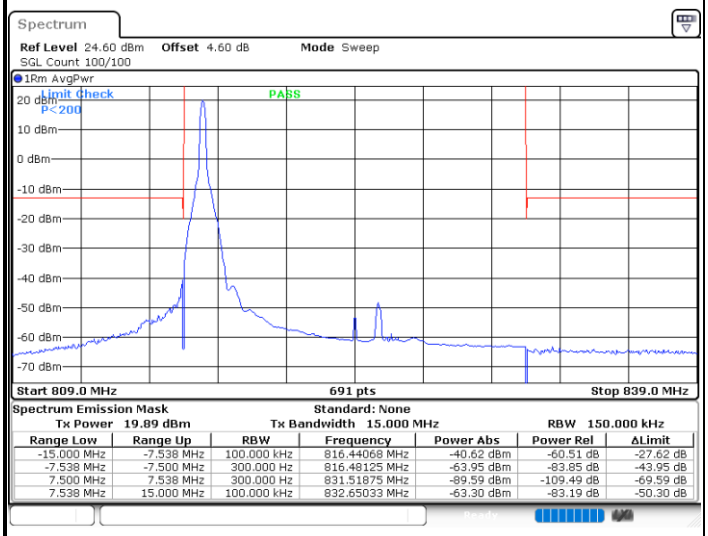
Spectrum Emission Mask Standard: None
Tx Power 20.60 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-36.67 dBm	-57.27 dB	-23.67 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-62.32 dBm	-82.92 dB	-42.32 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-63.24 dBm	-83.84 dB	-43.24 dB
7.538 MHz	15.000 MHz	100.000 kHz	832.38849 MHz	-38.95 dBm	-59.54 dB	-25.95 dB

Date: 8.JUL.2024 15:33:12

LTE Band 26 / 15MHz / 64QAM

Highest Band Edge / 1 RB

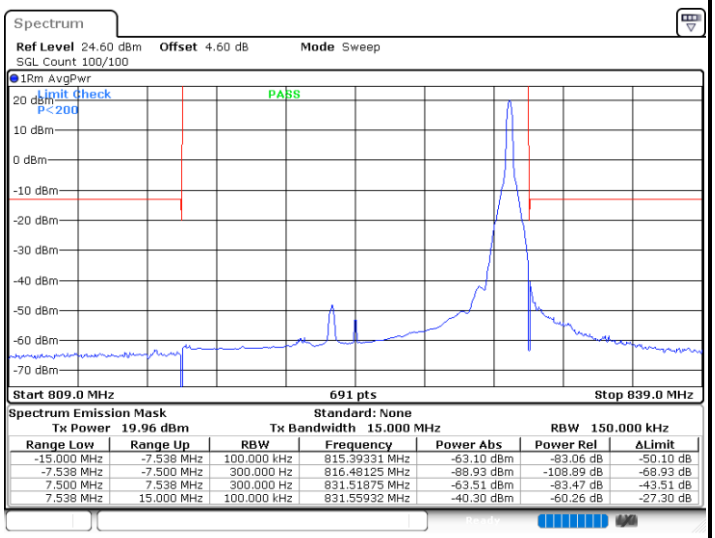


Spectrum Emission Mask Standard: None
Tx Power 19.89 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-40.62 dBm	-60.51 dB	-27.62 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-63.95 dBm	-83.85 dB	-43.95 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-89.59 dBm	-109.49 dB	-69.59 dB
7.538 MHz	15.000 MHz	100.000 kHz	832.65033 MHz	-63.30 dBm	-83.19 dB	-50.30 dB

Date: 8.JUL.2024 15:26:47

Highest Band Edge / 1 RB max

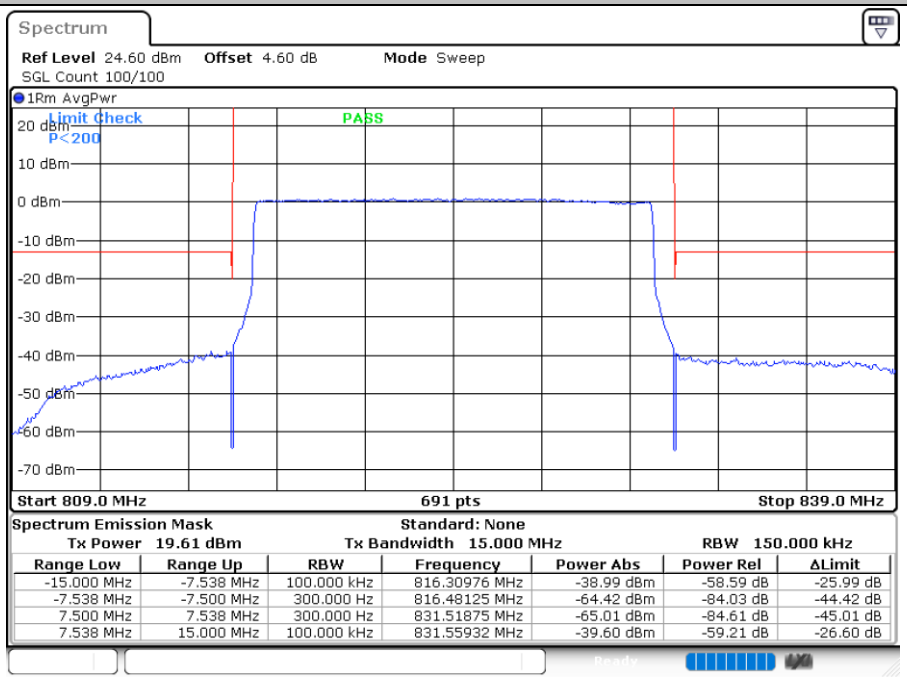


Spectrum Emission Mask Standard: None
Tx Power 19.96 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	815.39331 MHz	-63.10 dBm	-83.06 dB	-50.10 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-88.93 dBm	-108.89 dB	-68.93 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-63.51 dBm	-83.47 dB	-43.51 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-40.30 dBm	-60.26 dB	-27.30 dB

Date: 8.JUL.2024 15:30:26

Band Edge / Full RB



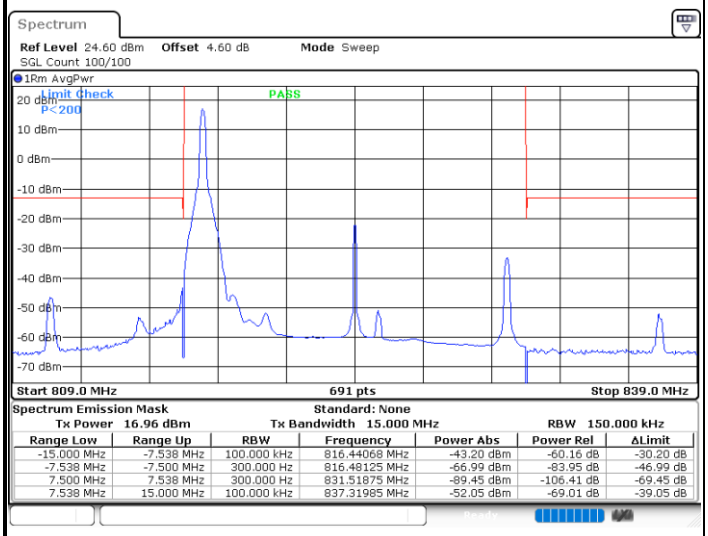
Spectrum Emission Mask Standard: None
Tx Power 19.61 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.30976 MHz	-38.99 dBm	-58.59 dB	-25.99 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-64.42 dBm	-84.03 dB	-44.42 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-65.01 dBm	-84.61 dB	-45.01 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-39.60 dBm	-59.21 dB	-26.60 dB

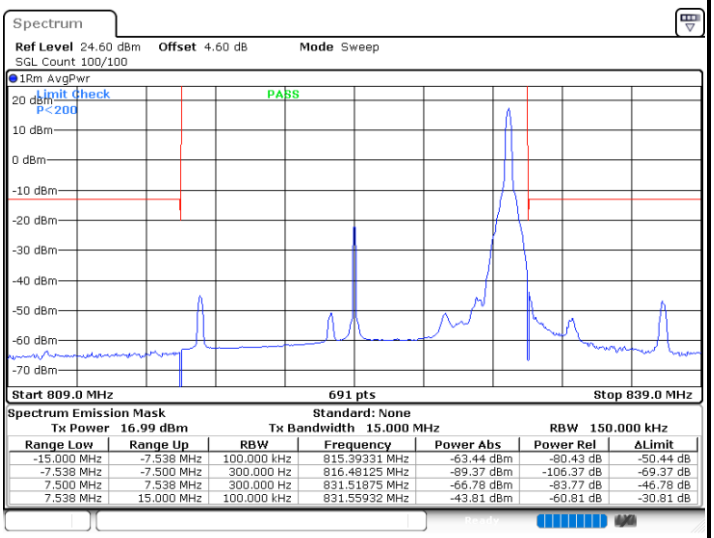
Date: 8.JUL.2024 15:34:07

LTE Band 26 / 15MHz / 256QAM

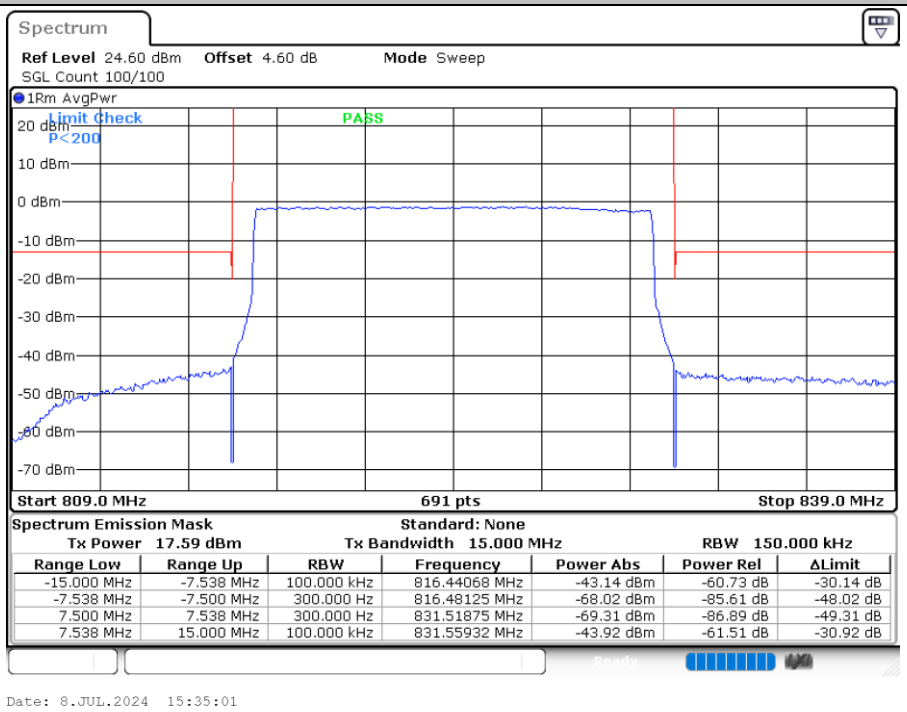
Highest Band Edge / 1 RB



Highest Band Edge / 1 RB max



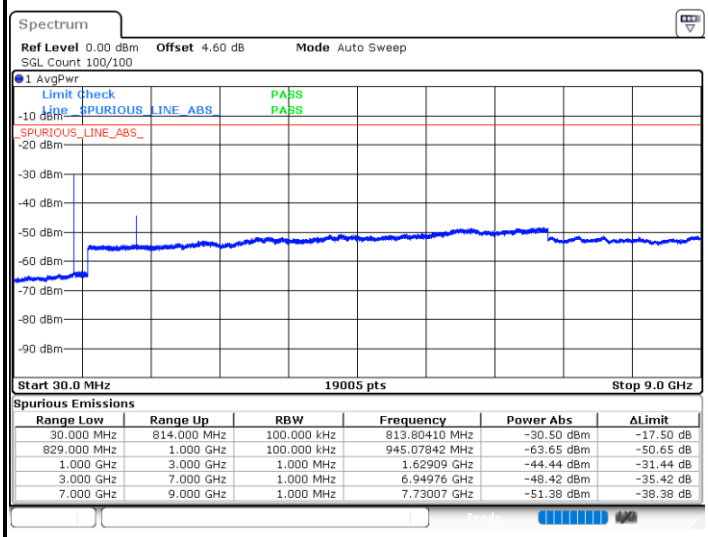
Band Edge / Full RB



Conducted Spurious Emission

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

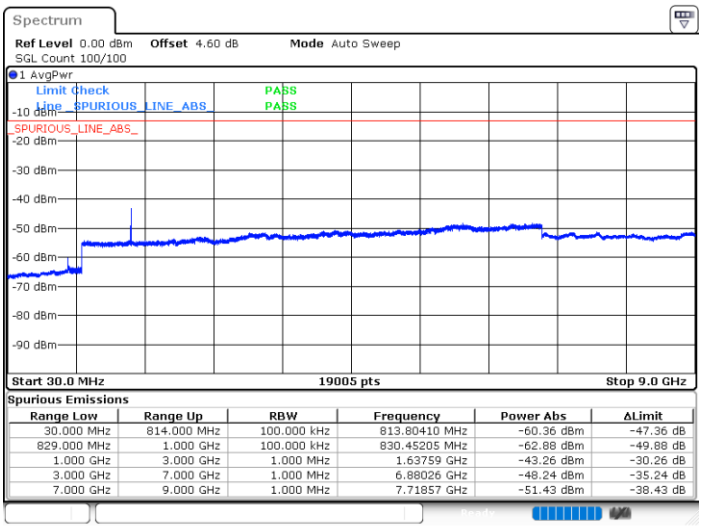


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-30.50 dBm	-17.50 dB
829.000 MHz	1.000 GHz	100.000 kHz	945.07842 MHz	-63.65 dBm	-50.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-44.44 dBm	-31.44 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94976 GHz	-48.42 dBm	-35.42 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.73007 GHz	-51.38 dBm	-38.38 dB

Date: 8.JUL.2024 13:15:27

Middle Channel / QPSK

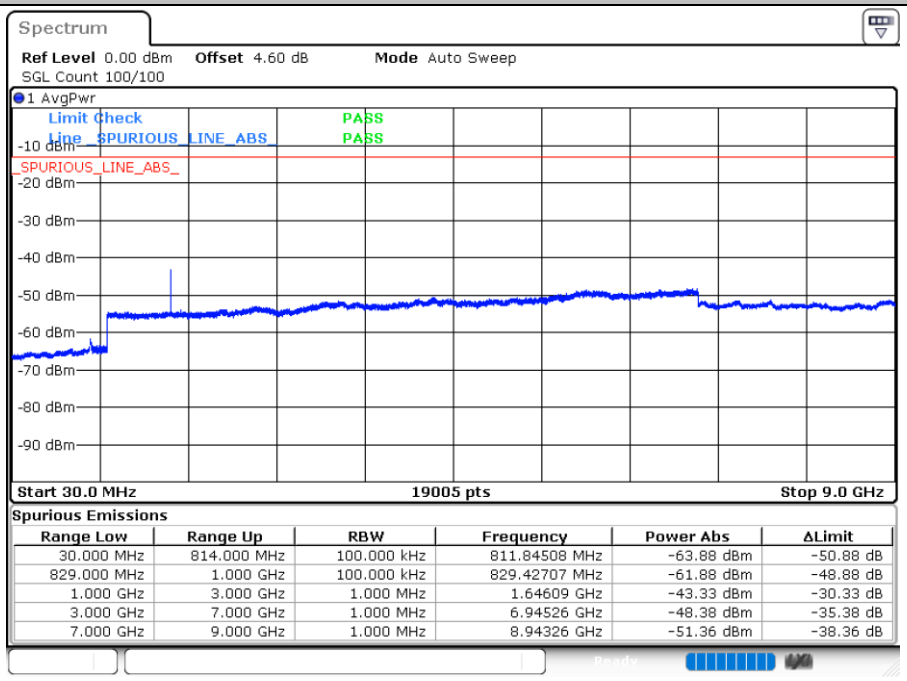


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-60.36 dBm	-47.36 dB
829.000 MHz	1.000 GHz	100.000 kHz	830.45205 MHz	-62.88 dBm	-49.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-43.26 dBm	-30.26 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88026 GHz	-48.24 dBm	-35.24 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.71857 GHz	-51.43 dBm	-38.43 dB

Date: 8.JUL.2024 13:28:46

Highest Channel / QPSK



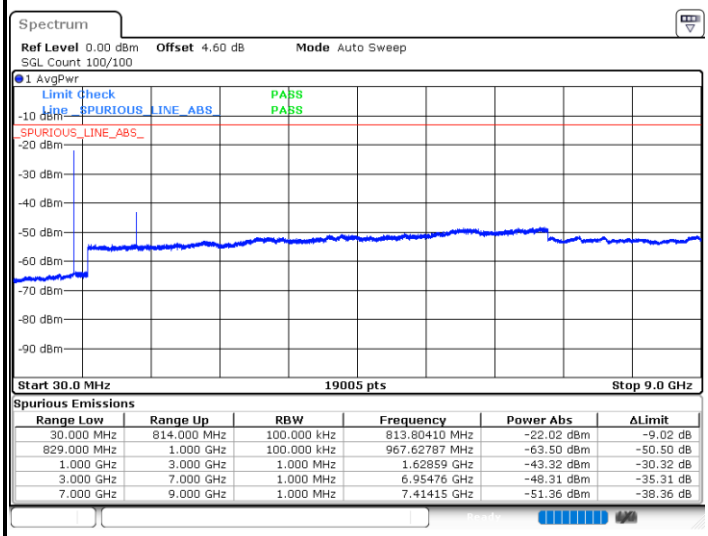
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	811.84508 MHz	-63.88 dBm	-50.88 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.42707 MHz	-61.88 dBm	-48.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-43.33 dBm	-30.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94526 GHz	-48.38 dBm	-35.38 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.94326 GHz	-51.36 dBm	-38.36 dB

Date: 8.JUL.2024 13:30:47

LTE Band 26 / 3MHz

Lowest Channel / QPSK

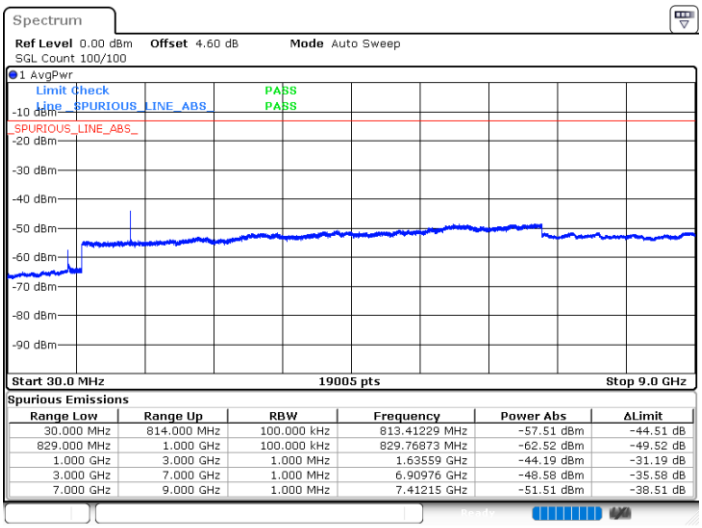


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-22.02 dBm	-9.02 dB
829.000 MHz	1.000 GHz	100.000 kHz	967.62787 MHz	-63.50 dBm	-50.50 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-43.32 dBm	-30.32 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95476 GHz	-48.31 dBm	-35.31 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.41415 GHz	-51.36 dBm	-38.36 dB

Date: 8.JUL.2024 13:48:31

Middle Channel / QPSK

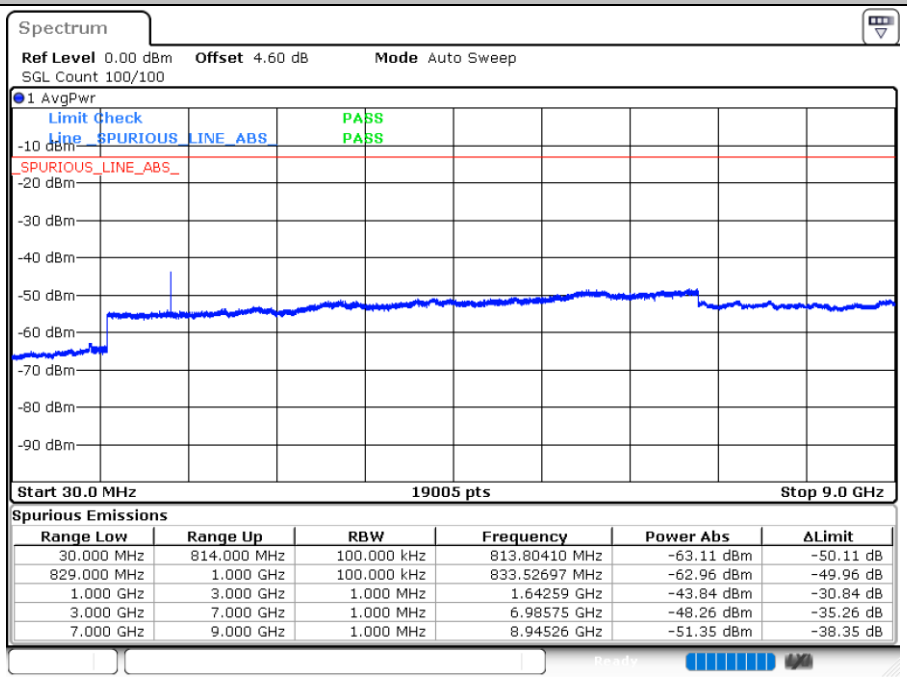


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.41229 MHz	-57.51 dBm	-44.51 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.76873 MHz	-62.52 dBm	-49.52 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-44.19 dBm	-31.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90976 GHz	-48.58 dBm	-35.58 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.41215 GHz	-51.51 dBm	-38.51 dB

Date: 8.JUL.2024 14:10:52

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-63.11 dBm	-50.11 dB
829.000 MHz	1.000 GHz	100.000 kHz	833.52697 MHz	-62.96 dBm	-49.96 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64259 GHz	-43.84 dBm	-30.84 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98575 GHz	-48.26 dBm	-35.26 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.94526 GHz	-51.35 dBm	-38.35 dB

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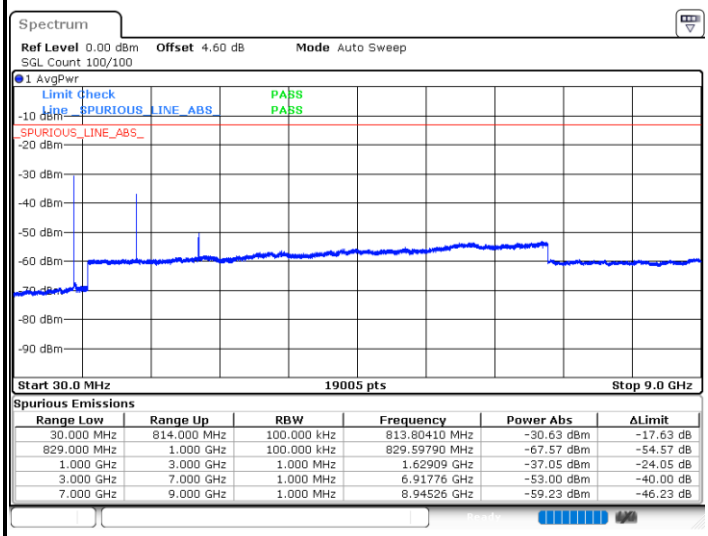
LTE Band 26 / 5MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-30.63 dBm	-17.63 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.59790 MHz	-67.57 dBm	-54.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-37.05 dBm	-24.05 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91776 GHz	-53.00 dBm	-40.00 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.94526 GHz	-59.23 dBm	-46.23 dB

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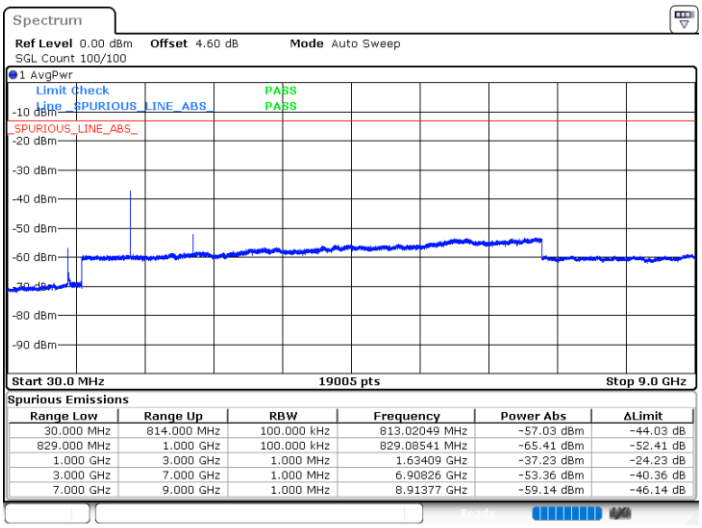
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.02049 MHz	-57.03 dBm	-44.03 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.08541 MHz	-65.41 dBm	-52.41 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-37.23 dBm	-24.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90826 GHz	-53.36 dBm	-40.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.91377 GHz	-59.14 dBm	-46.14 dB

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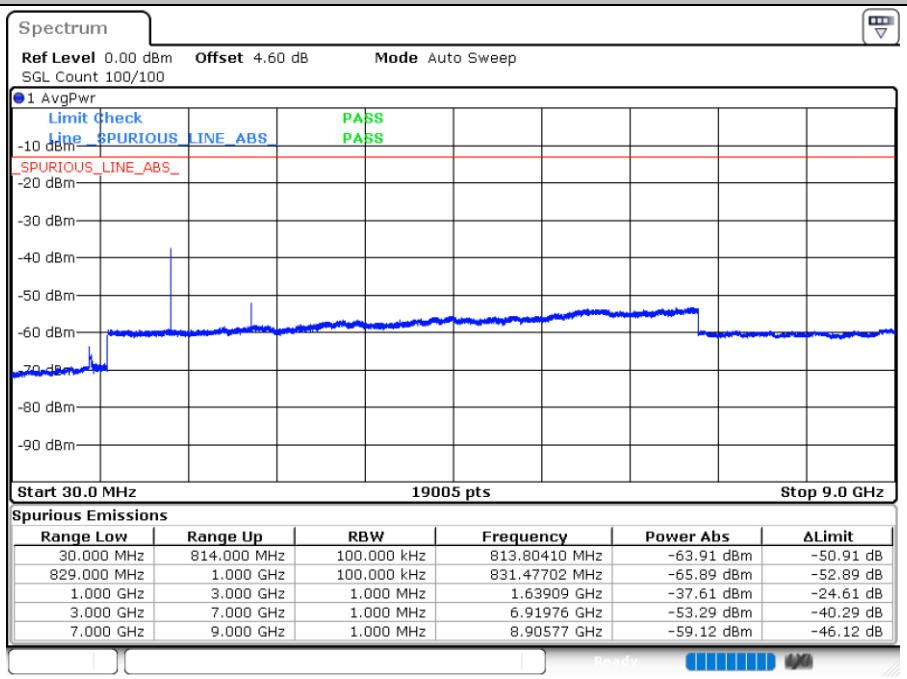
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-63.91 dBm	-50.91 dB
829.000 MHz	1.000 GHz	100.000 kHz	831.47702 MHz	-65.89 dBm	-52.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-37.61 dBm	-24.61 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91976 GHz	-53.29 dBm	-40.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90577 GHz	-59.12 dBm	-46.12 dB

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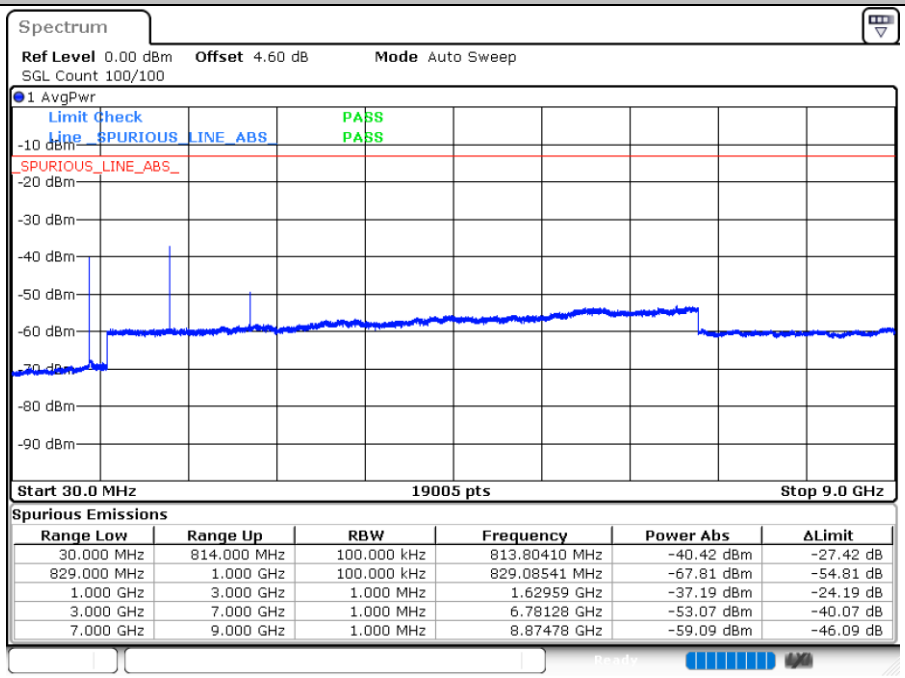
LTE Band 26 / 10MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-40.42 dBm	-27.42 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.08541 MHz	-67.81 dBm	-54.81 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-37.19 dBm	-24.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78128 GHz	-53.07 dBm	-40.07 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.87478 GHz	-59.09 dBm	-46.09 dB

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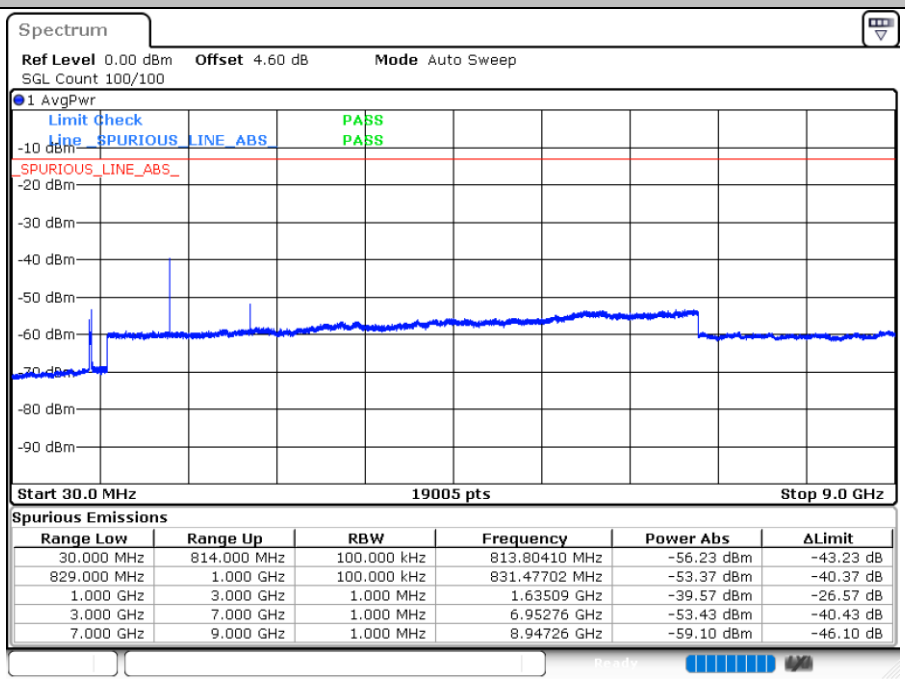
LTE Band 26 / 15MHz

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-56.23 dBm	-43.23 dB
829.000 MHz	1.000 GHz	100.000 kHz	831.47702 MHz	-53.37 dBm	-40.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63509 GHz	-39.57 dBm	-26.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95276 GHz	-53.43 dBm	-40.43 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.94726 GHz	-59.10 dBm	-46.10 dB

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Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0033	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0071	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0032	
20	Maximum Voltage	0.0047	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0054	

Note: Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.41 V.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Bruce	Temperature :	23~25℃
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

LTE Band 26 / 10MHz / QPSK for Ant1								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1632	-64.80	-13	-51.80	-71.77	1.58	10.70	H
	2440	-62.23	-13	-49.23	-70.48	2.102	12.50	H
	3256	-60.53	-13	-47.53	-69.42	2.856	13.90	H
	1632	-64.08	-13	-51.08	-71.05	1.58	10.70	V
	2440	-60.09	-13	-47.09	-68.34	2.10	12.50	V
	3256	-60.95	-13	-47.95	-69.84	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 26 / 15MHz / QPSK for Ant1								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
High	1632	-66.19	-13	-53.19	-73.16	1.58	10.70	H
	2456	-61.50	-13	-48.50	-69.75	2.102	12.50	H
	3272	-60.76	-13	-47.76	-69.65	2.856	13.90	H
	1632	-65.82	-13	-52.82	-72.79	1.58	10.70	V
	2456	-56.23	-13	-43.23	-64.48	2.10	12.50	V
	3272	-60.52	-13	-47.52	-69.41	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.