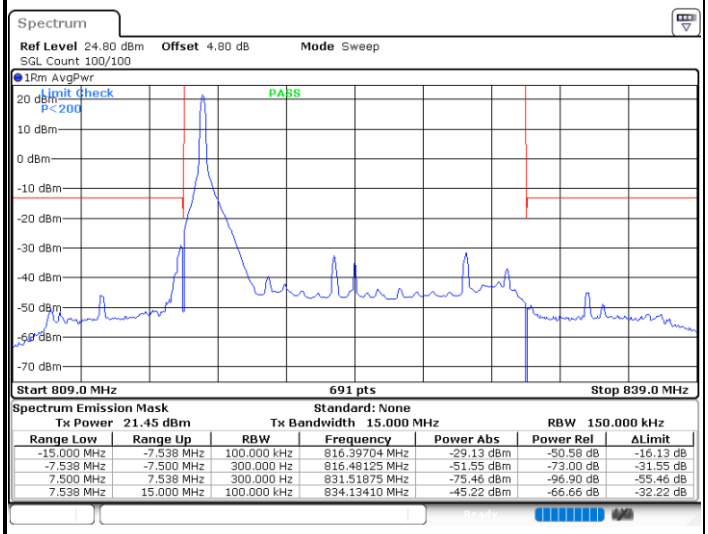
LTE Band 26 / 15MHz / 64QAM

Highest Band Edge / 1 RB

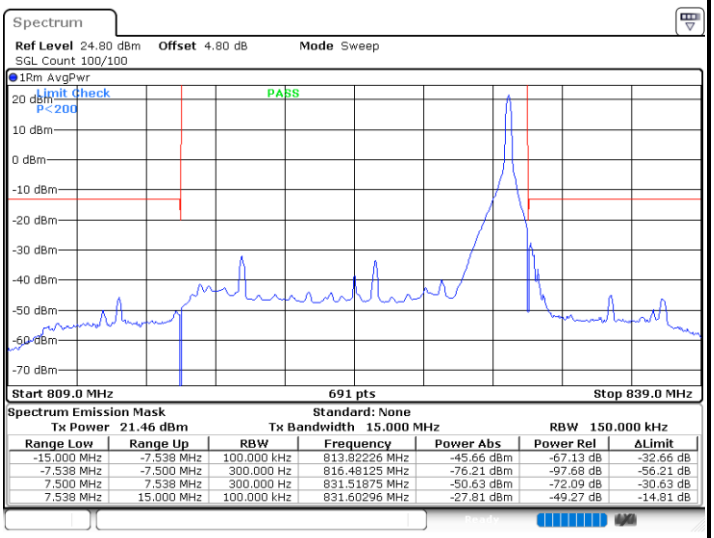


Spectrum Emission Mask Standard: None
Tx Power 21.45 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.39704 MHz	-29.13 dBm	-50.58 dB	-16.13 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-51.55 dBm	-73.00 dB	-31.55 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-75.46 dBm	-96.90 dB	-55.46 dB
7.538 MHz	15.000 MHz	100.000 kHz	834.13410 MHz	-45.22 dBm	-66.66 dB	-32.22 dB

Date: 23.JUL.2024 15:08:34

Highest Band Edge / 1 RB max

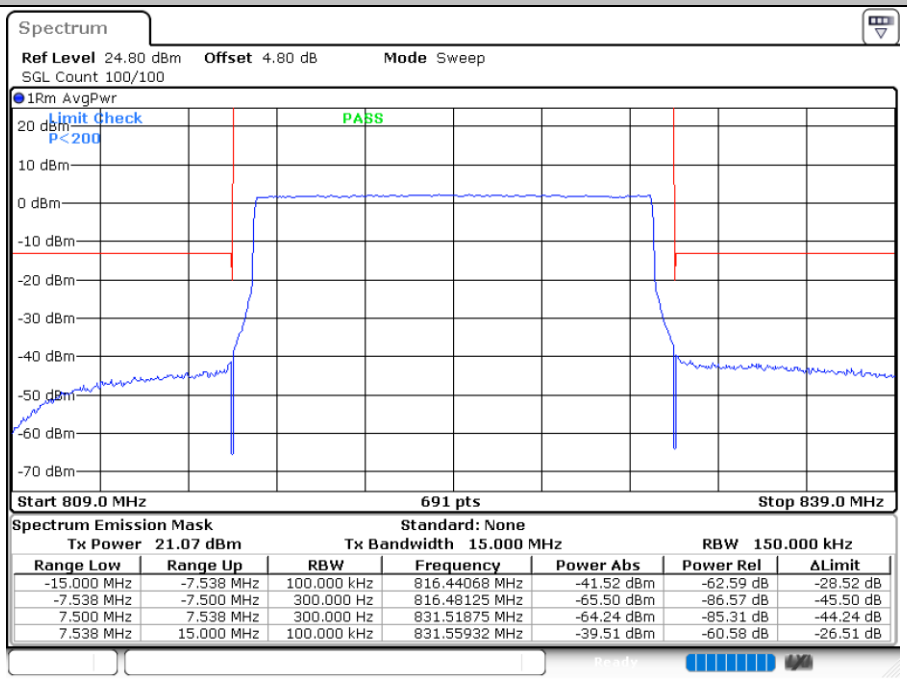


Spectrum Emission Mask Standard: None
Tx Power 21.46 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.82226 MHz	-45.66 dBm	-67.13 dB	-32.66 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-76.21 dBm	-97.68 dB	-56.21 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-50.63 dBm	-72.09 dB	-30.63 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.60296 MHz	-27.81 dBm	-49.27 dB	-14.81 dB

Date: 23.JUL.2024 15:13:30

Band Edge / Full RB



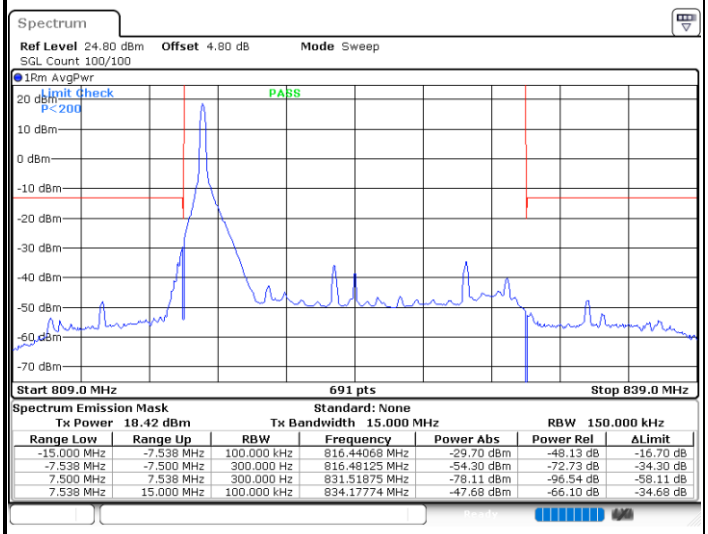
Spectrum Emission Mask Standard: None
Tx Power 21.07 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-41.52 dBm	-62.59 dB	-28.52 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-65.50 dBm	-86.57 dB	-45.50 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-64.24 dBm	-85.31 dB	-44.24 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-39.51 dBm	-60.58 dB	-26.51 dB

Date: 23.JUL.2024 15:17:29

LTE Band 26 / 15MHz / 256QAM

Highest Band Edge / 1 RB

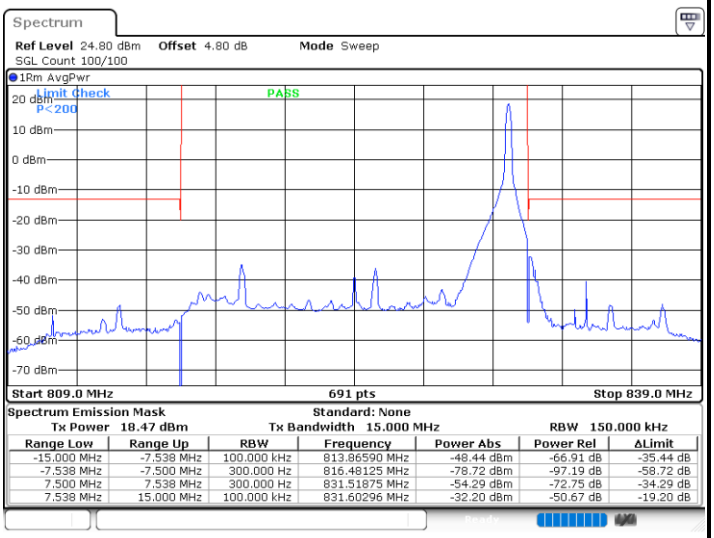


Spectrum Emission Mask Standard: None
Tx Power 18.42 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-29.70 dBm	-48.13 dB	-16.70 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-54.30 dBm	-72.73 dB	-34.30 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-78.11 dBm	-96.54 dB	-58.11 dB
7.538 MHz	15.000 MHz	100.000 kHz	834.17774 MHz	-47.68 dBm	-66.10 dB	-34.68 dB

Date: 23.JUL.2024 15:09:34

Highest Band Edge / 1 RB max

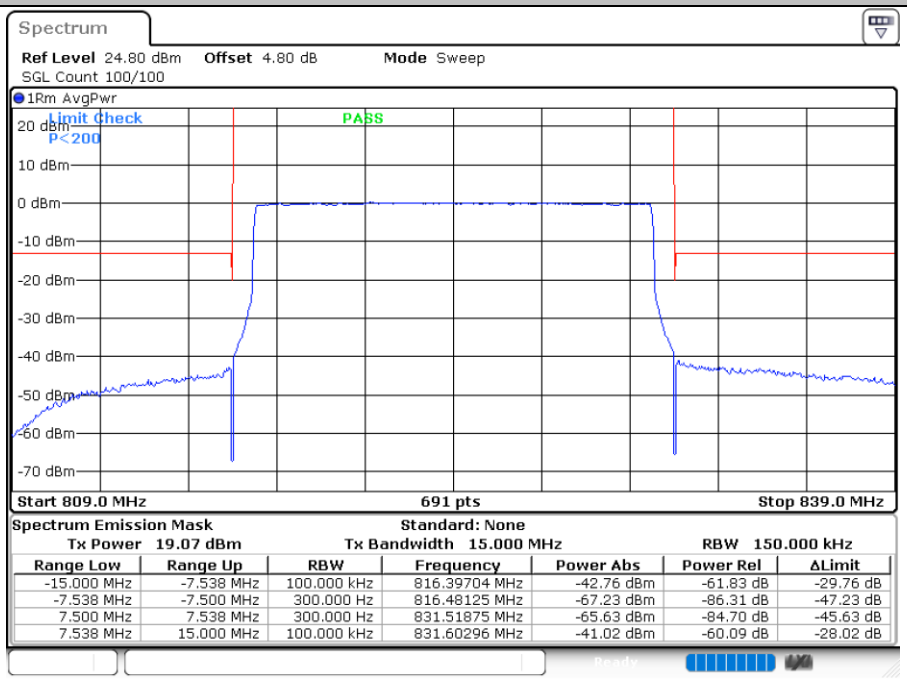


Spectrum Emission Mask Standard: None
Tx Power 18.47 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.86590 MHz	-48.44 dBm	-66.91 dB	-35.44 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-78.72 dBm	-97.19 dB	-58.72 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-54.29 dBm	-72.75 dB	-34.29 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.60296 MHz	-32.20 dBm	-50.67 dB	-19.20 dB

Date: 23.JUL.2024 15:14:30

Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 19.07 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

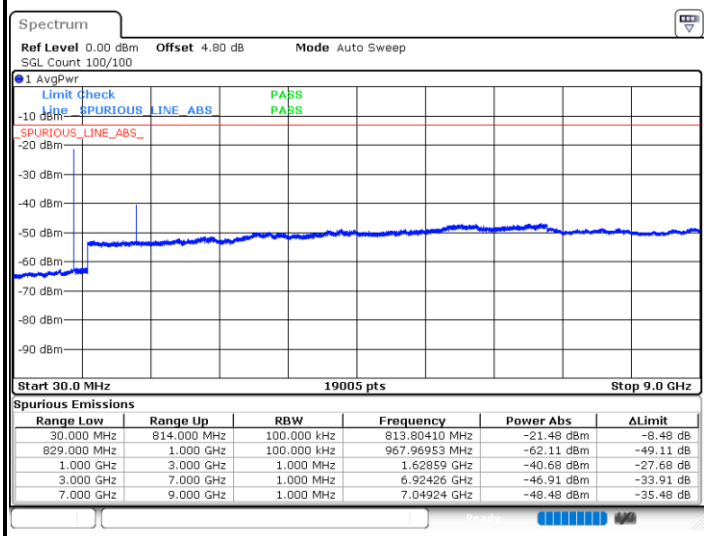
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.39704 MHz	-42.76 dBm	-61.83 dB	-29.76 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-67.23 dBm	-86.31 dB	-47.23 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-65.63 dBm	-84.70 dB	-45.63 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.60296 MHz	-41.02 dBm	-60.09 dB	-28.02 dB

Date: 23.JUL.2024 15:18:28

Conducted Spurious Emission

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

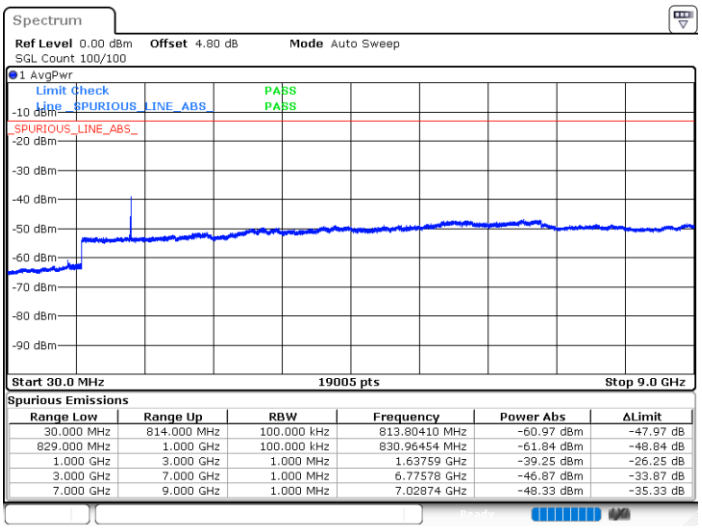


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-21.48 dBm	-8.48 dB
829.000 MHz	1.000 GHz	100.000 kHz	967.96953 MHz	-62.11 dBm	-49.11 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-40.68 dBm	-27.68 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92426 GHz	-46.91 dBm	-33.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04924 GHz	-48.48 dBm	-35.48 dB

Date: 23.JUL.2024 13:24:21

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	-60.97 dBm	-47.97 dB
829.000 MHz	1.000 GHz	100.000 kHz	830.96454 MHz	-61.84 dBm	-48.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-39.25 dBm	-26.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77578 GHz	-46.87 dBm	-33.87 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.02874 GHz	-48.33 dBm	-35.33 dB

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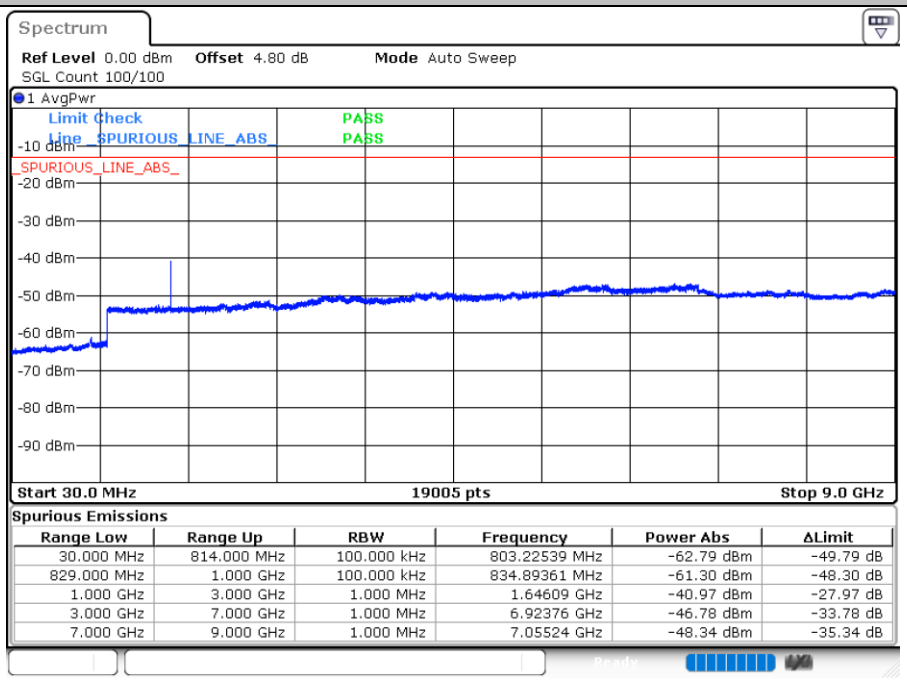
Highest Channel / QPSK



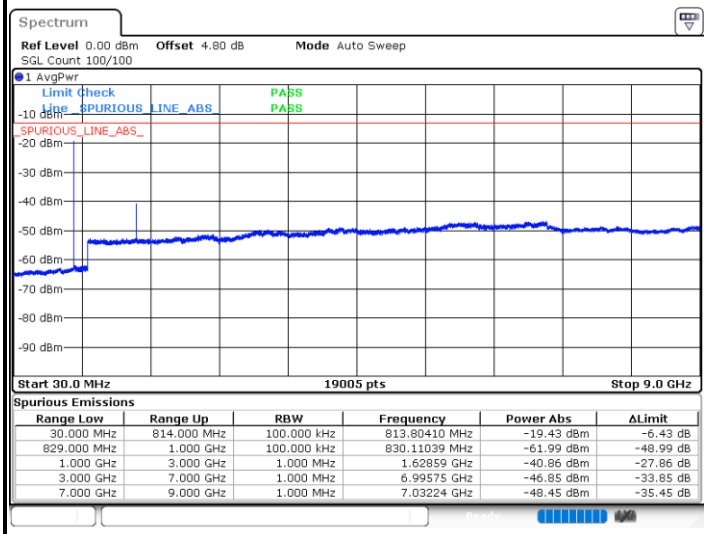
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	803.22539 MHz	-62.79 dBm	-49.79 dB
829.000 MHz	1.000 GHz	100.000 kHz	834.89361 MHz	-61.30 dBm	-48.30 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-40.97 dBm	-27.97 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92376 GHz	-46.78 dBm	-33.78 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05524 GHz	-48.34 dBm	-35.34 dB

Date: 23.JUL.2024 13:40:53

LTE Band 26 / 3MHz

Lowest Channel / QPSK

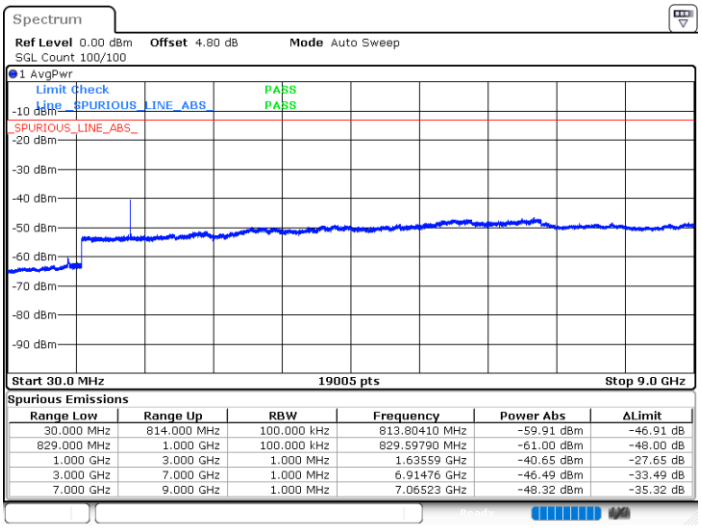


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-19.43 dBm	-6.43 dB
829.000 MHz	1.000 GHz	100.000 kHz	830.11039 MHz	-61.99 dBm	-48.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-40.86 dBm	-27.86 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-46.85 dBm	-33.85 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.03224 GHz	-48.45 dBm	-35.45 dB

Date: 23.JUL.2024 13:55:08

Middle Channel / QPSK

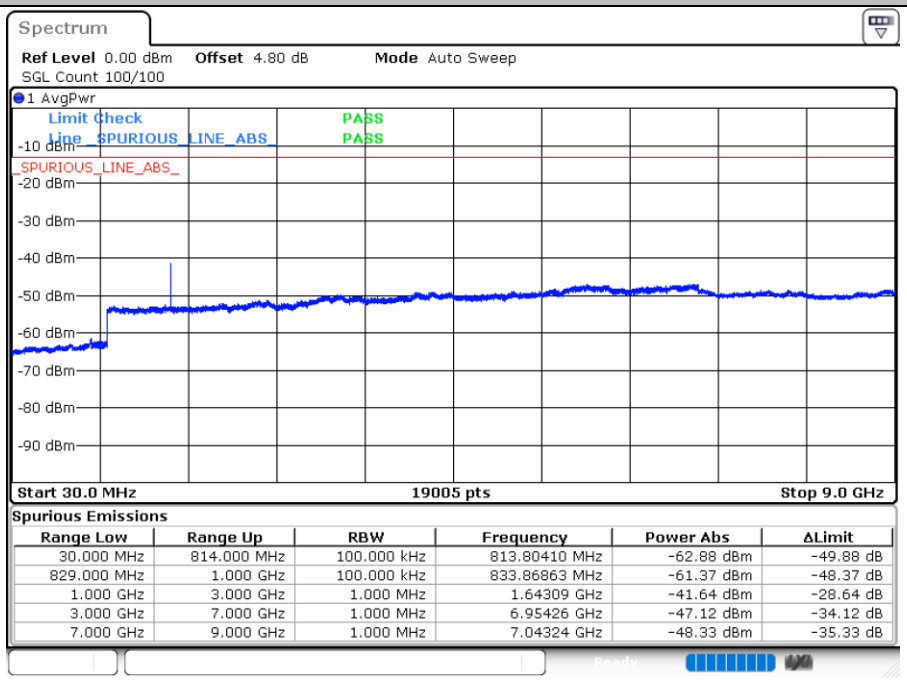


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-59.91 dBm	-46.91 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.59790 MHz	-61.00 dBm	-48.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-40.65 dBm	-27.65 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91476 GHz	-46.49 dBm	-33.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.06523 GHz	-48.32 dBm	-35.32 dB

Date: 23.JUL.2024 14:08:31

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	-62.88 dBm	-49.88 dB
829.000 MHz	1.000 GHz	100.000 kHz	833.86863 MHz	-61.37 dBm	-48.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64309 GHz	-41.64 dBm	-28.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95426 GHz	-47.12 dBm	-34.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04324 GHz	-48.33 dBm	-35.33 dB

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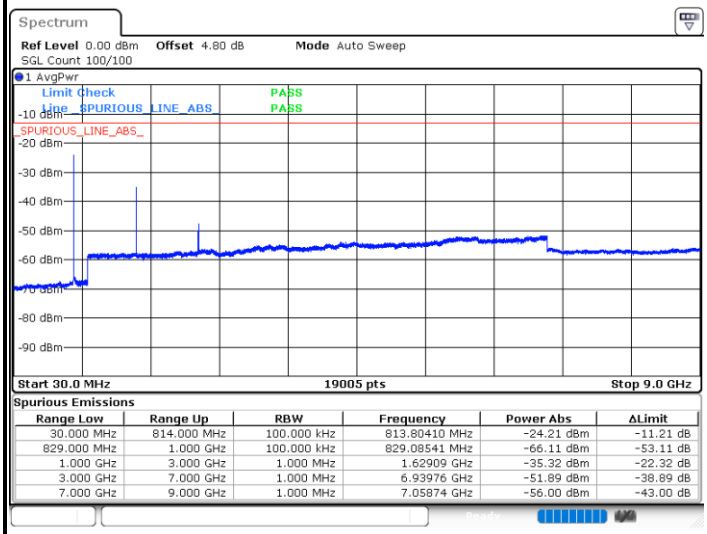
LTE Band 26 / 5MHz

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	-24.21 dBm	-11.21 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.08541 MHz	-66.11 dBm	-53.11 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-35.32 dBm	-22.32 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93976 GHz	-51.89 dBm	-38.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05874 GHz	-56.00 dBm	-43.00 dB

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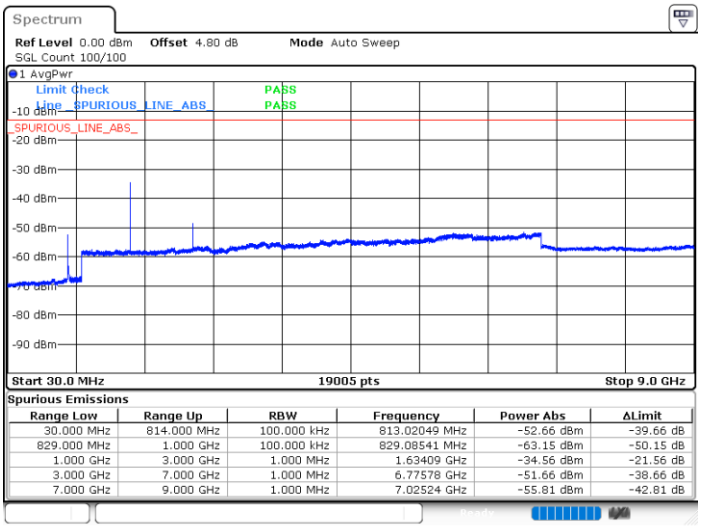
Middle Channel / QPSK

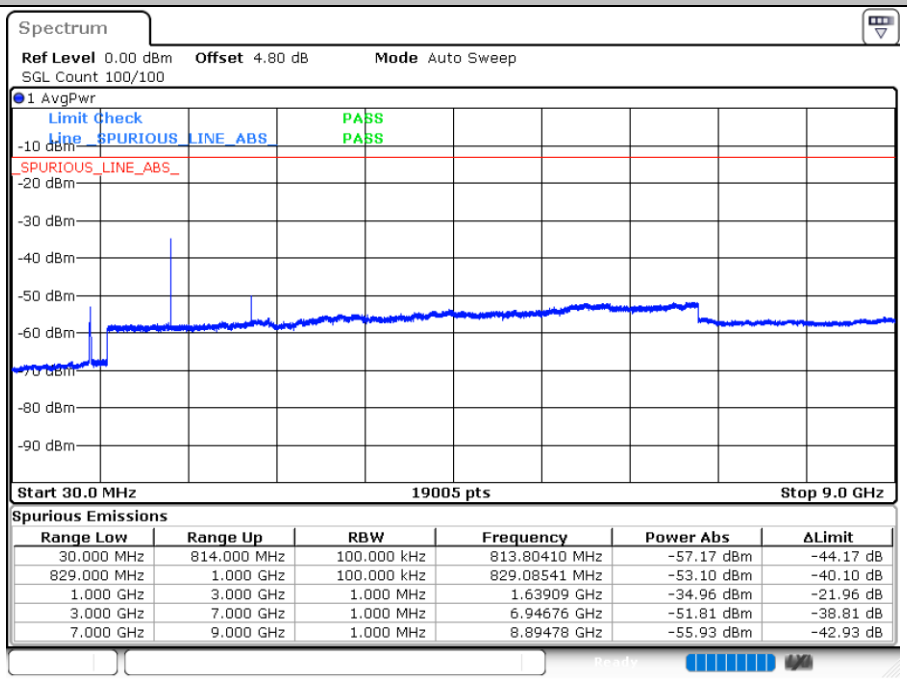


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.02049 MHz	-52.66 dBm	-39.66 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.08541 MHz	-63.15 dBm	-50.15 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-34.56 dBm	-21.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.77578 GHz	-51.66 dBm	-38.66 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.02524 GHz	-55.81 dBm	-42.81 dB

Date: 23.JUL.2024 14:38:26

Highest Channel / QPSK



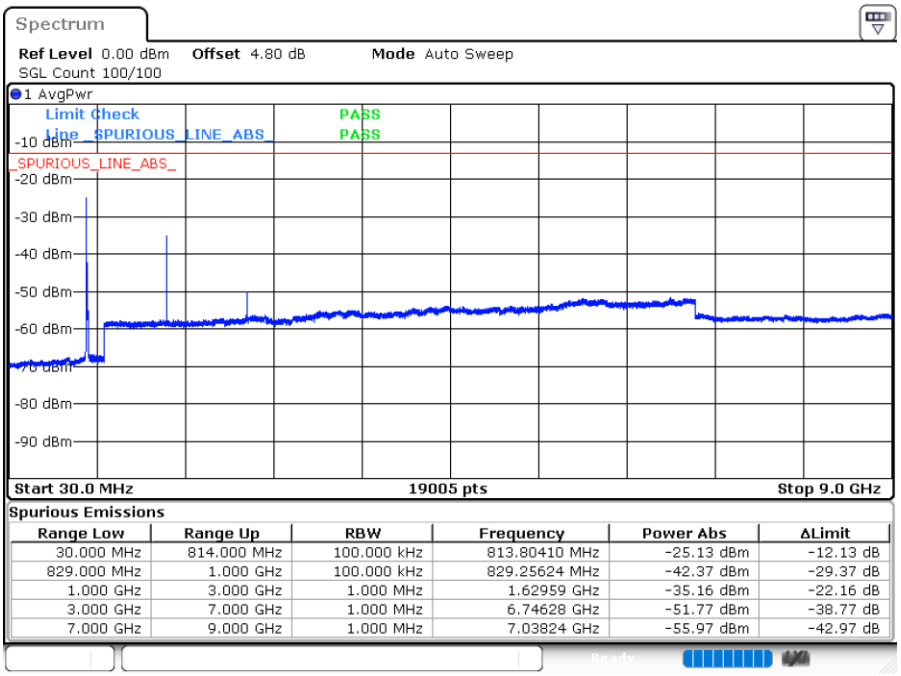
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-57.17 dBm	-44.17 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.08541 MHz	-53.10 dBm	-40.10 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-34.96 dBm	-21.96 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94676 GHz	-51.81 dBm	-38.81 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89478 GHz	-55.93 dBm	-42.93 dB

Date: 23.JUL.2024 14:40:52

LTE Band 26 / 10MHz

Middle Channel / QPSK



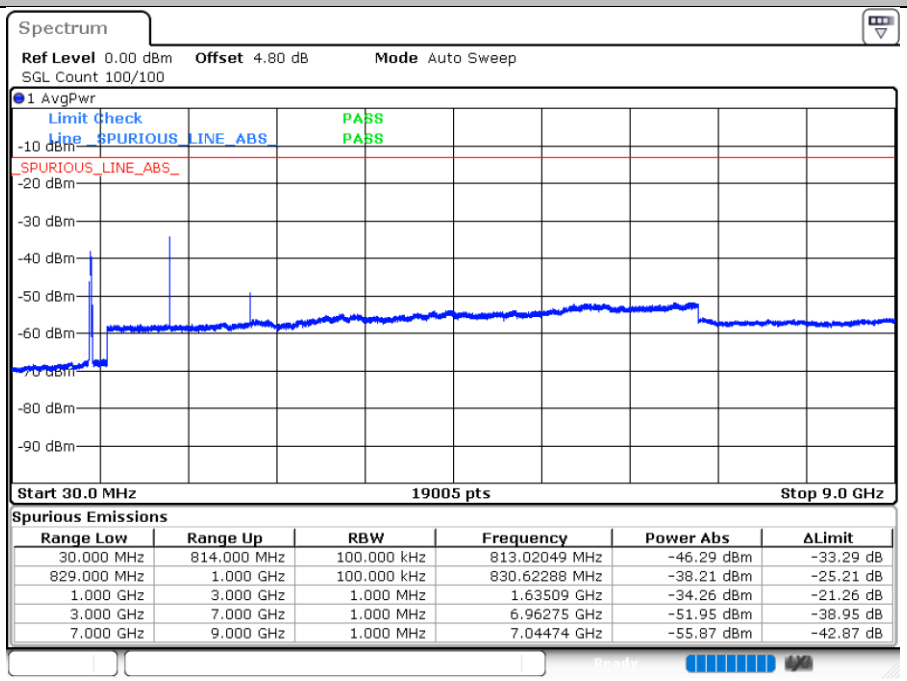
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-25.13 dBm	-12.13 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.25624 MHz	-42.37 dBm	-29.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-35.16 dBm	-22.16 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.74628 GHz	-51.77 dBm	-38.77 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.03824 GHz	-55.97 dBm	-42.97 dB

Date: 23.JUL.2024 14:50:41

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	813.02049 MHz	-46.29 dBm	-33.29 dB
829.000 MHz	1.000 GHz	100.000 kHz	830.62288 MHz	-38.21 dBm	-25.21 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63509 GHz	-34.26 dBm	-21.26 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96275 GHz	-51.95 dBm	-38.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04474 GHz	-55.87 dBm	-42.87 dB

Date: 23.JUL.2024 15:05:36

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0031	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0041	

Note:

1. Normal Voltage = 3.91V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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 / 15MHz / QPSK / Ant. 4								
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	-66.17	-13	-53.17	-73.14	1.58	10.70	H
	2440	-54.40	-13	-41.40	-62.65	2.102	12.50	H
	3256	-60.65	-13	-47.65	-69.54	2.856	13.90	H
	1632	-65.06	-13	-52.06	-72.03	1.58	10.70	V
	2440	-53.04	-13	-40.04	-61.29	2.10	12.50	V
	3256	-60.60	-13	-47.60	-69.49	2.86	13.90	V

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