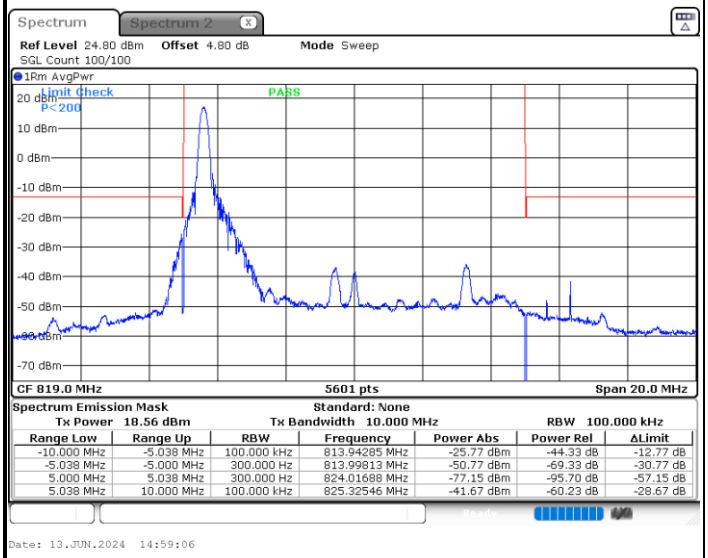
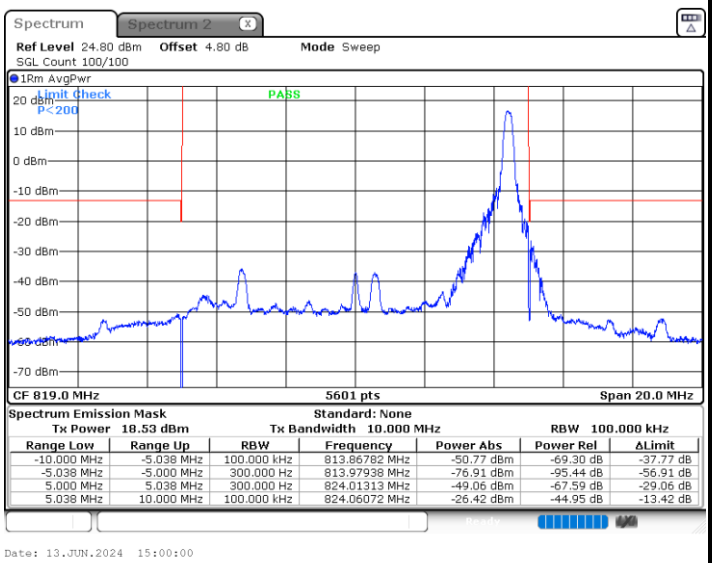
LTE Band 26 / 10MHz / 256QAM

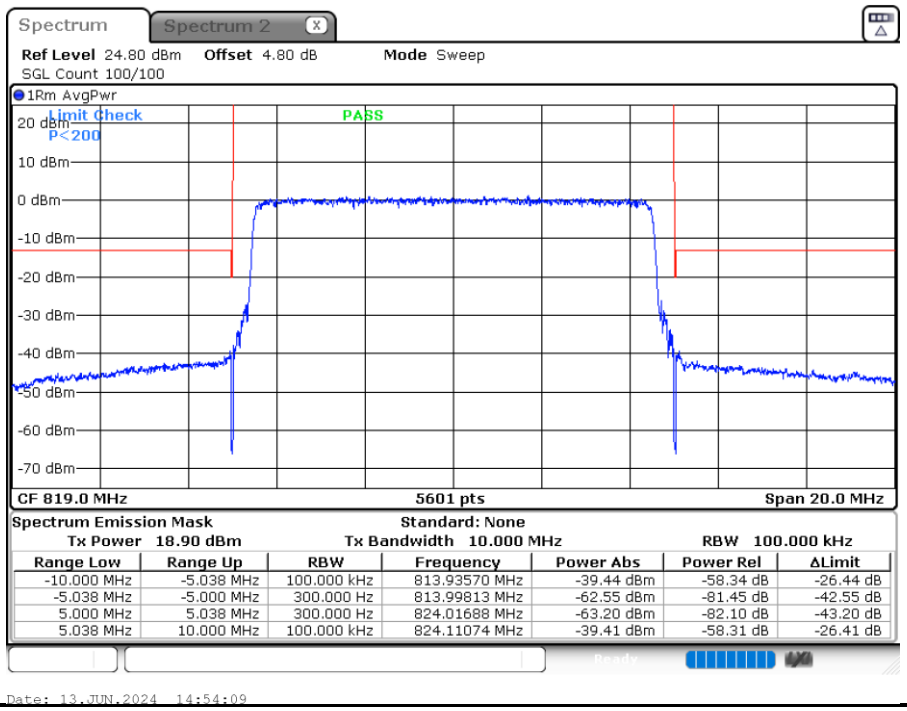
Middle Band Edge / 1 RB



Middle Band Edge / 1 RB max

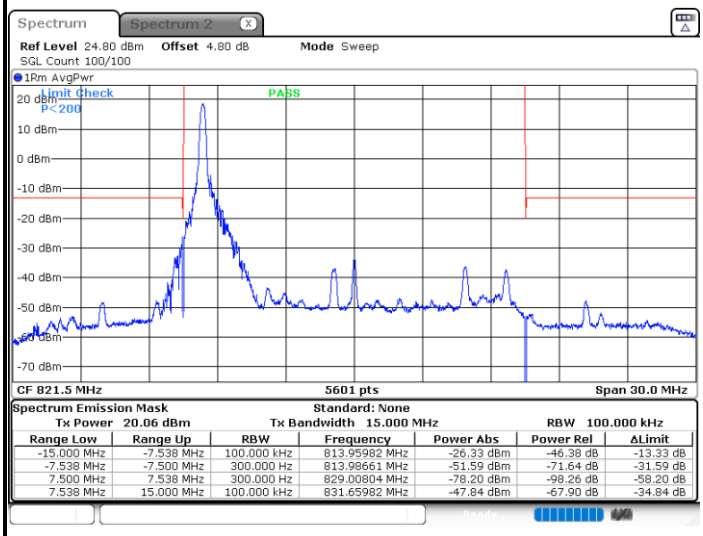


Band Edge / Full RB

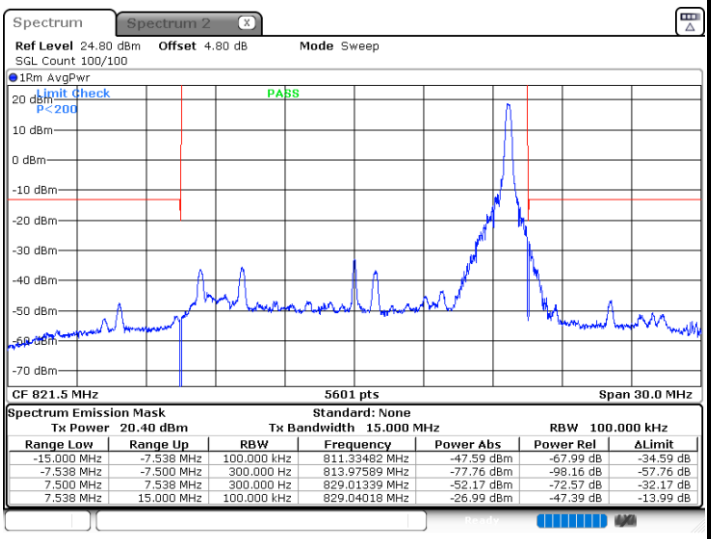


LTE Band 26 / 15MHz / QPSK

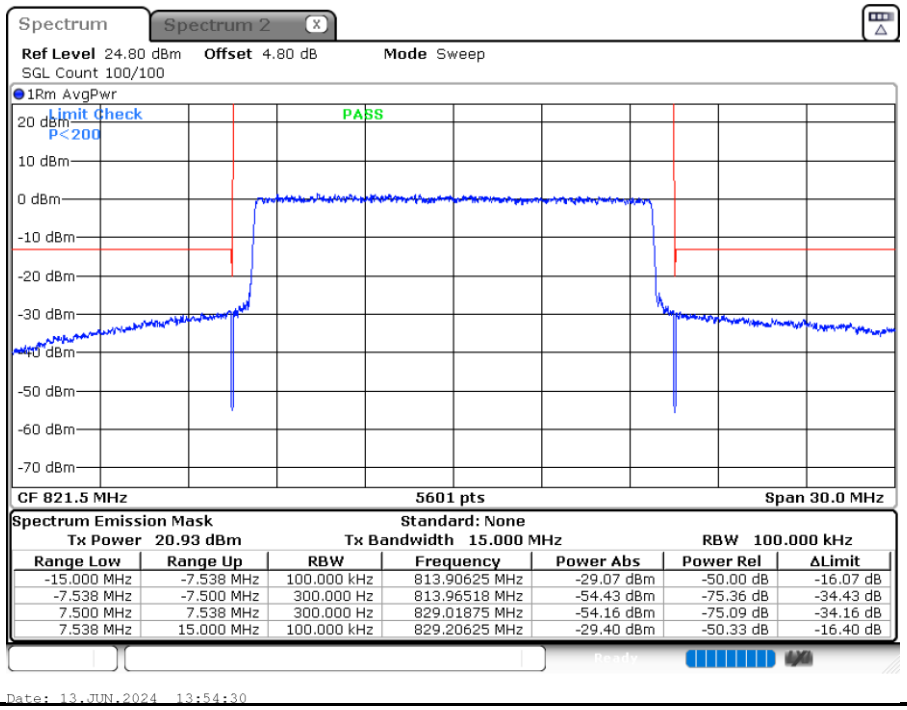
Middle Band Edge / 1 RB



Middle Band Edge / 1 RB max

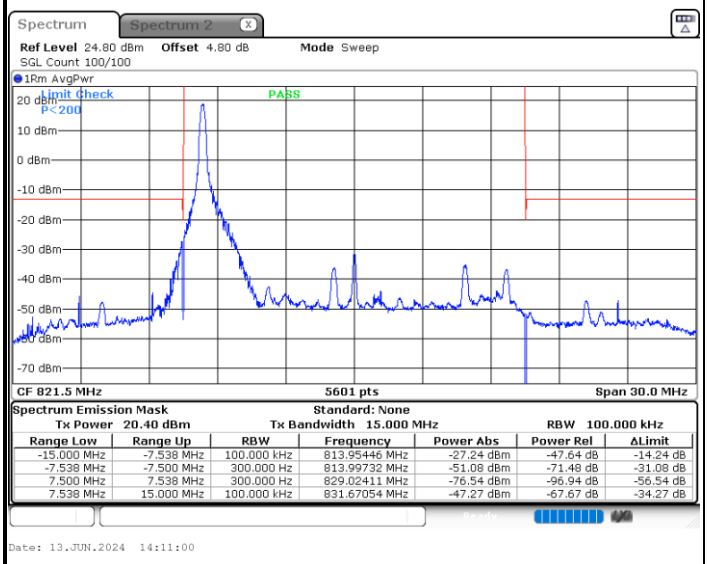


Band Edge / Full RB



LTE Band 26 / 15MHz / 16QAM

Middle Band Edge / 1 RB

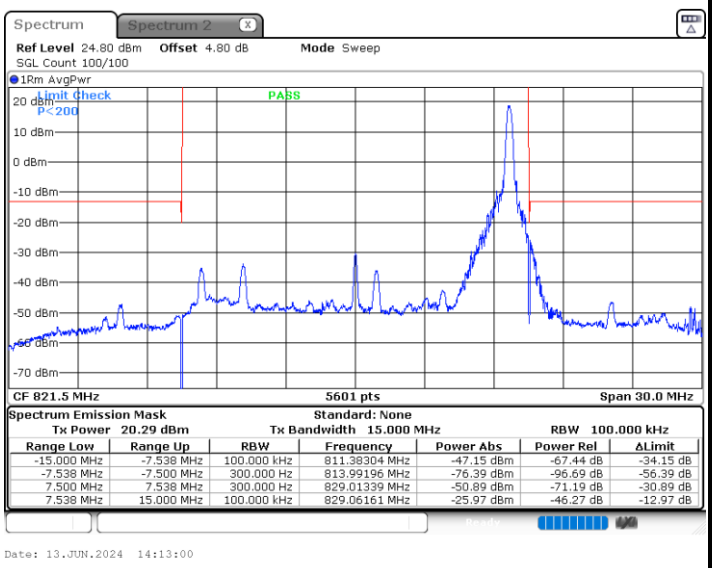


Spectrum Emission Mask Standard: None
Tx Power 20.40 dBm Tx Bandwidth 15.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.95446 MHz	-27.24 dBm	-47.64 dB	-14.24 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.99732 MHz	-51.08 dBm	-71.48 dB	-31.08 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.02411 MHz	-76.54 dBm	-96.94 dB	-56.54 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.67054 MHz	-47.27 dBm	-67.67 dB	-34.27 dB

Date: 13.JUN.2024 14:11:00

Middle Band Edge / 1 RB max

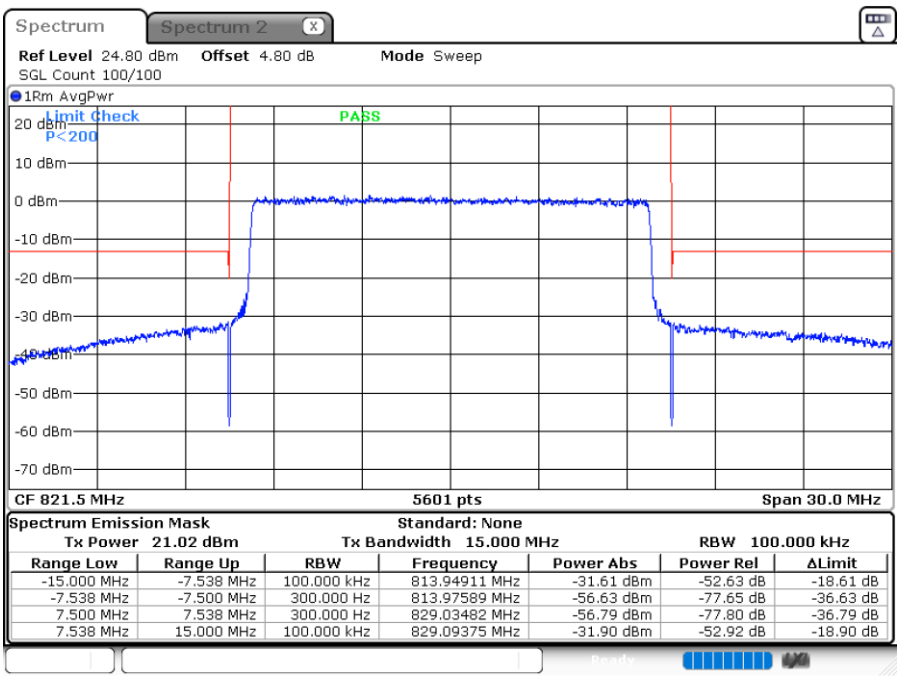


Spectrum Emission Mask Standard: None
Tx Power 20.29 dBm Tx Bandwidth 15.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	811.38304 MHz	-47.15 dBm	-67.44 dB	-34.15 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.99196 MHz	-76.39 dBm	-96.69 dB	-56.39 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.01339 MHz	-50.89 dBm	-71.19 dB	-30.89 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.06161 MHz	-25.97 dBm	-46.27 dB	-12.97 dB

Date: 13.JUN.2024 14:13:00

Band Edge / Full RB



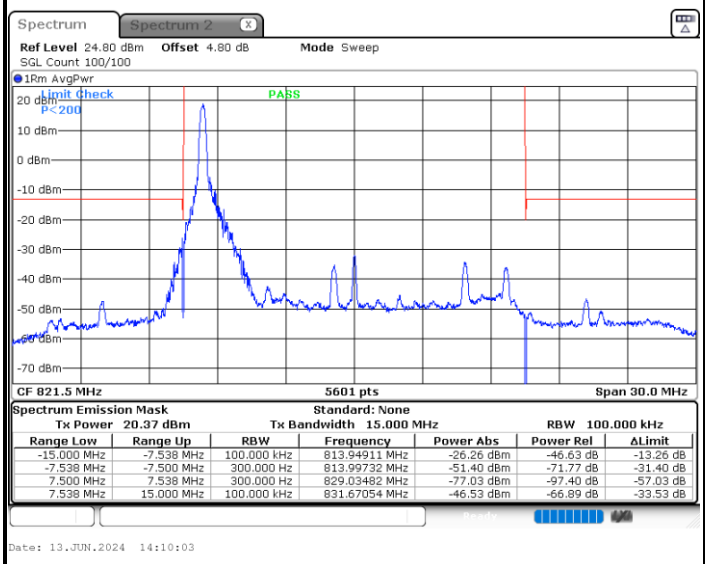
Spectrum Emission Mask Standard: None
Tx Power 21.02 dBm Tx Bandwidth 15.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.94911 MHz	-31.61 dBm	-52.63 dB	-18.61 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.97589 MHz	-56.63 dBm	-77.65 dB	-36.63 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.03482 MHz	-56.79 dBm	-77.80 dB	-36.79 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.09375 MHz	-31.90 dBm	-52.92 dB	-18.90 dB

Date: 13.JUN.2024 13:56:23

LTE Band 26 / 15MHz / 64QAM

Middle Band Edge / 1 RB

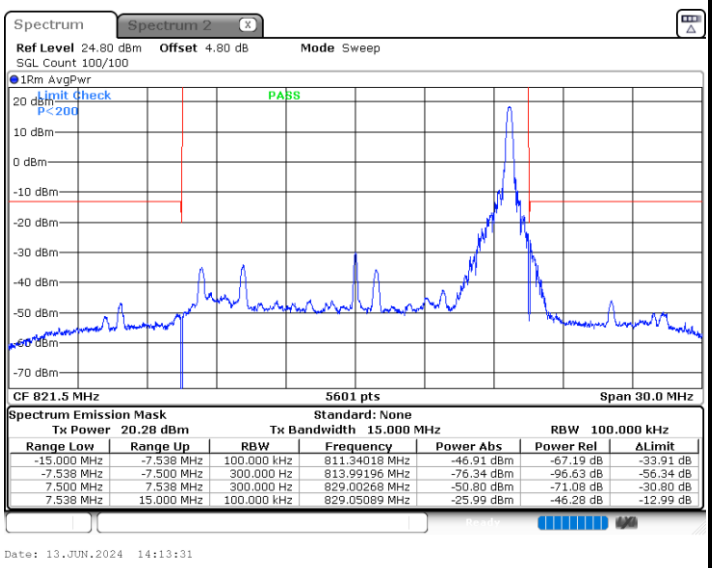


Spectrum Emission Mask Standard: None
Tx Power 20.37 dBm Tx Bandwidth 15.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.94911 MHz	-26.26 dBm	-46.63 dB	-13.26 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.99732 MHz	-51.40 dBm	-71.77 dB	-31.40 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.03482 MHz	-77.03 dBm	-97.40 dB	-57.03 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.67054 MHz	-46.53 dBm	-66.89 dB	-33.53 dB

Date: 13.JUN.2024 14:10:03

Middle Band Edge / 1 RB max



Spectrum Emission Mask Standard: None
Tx Power 20.28 dBm Tx Bandwidth 15.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	811.34018 MHz	-46.91 dBm	-67.19 dB	-33.91 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.99196 MHz	-76.34 dBm	-96.63 dB	-56.34 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.00268 MHz	-50.80 dBm	-71.08 dB	-30.80 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.05089 MHz	-25.99 dBm	-46.28 dB	-12.99 dB

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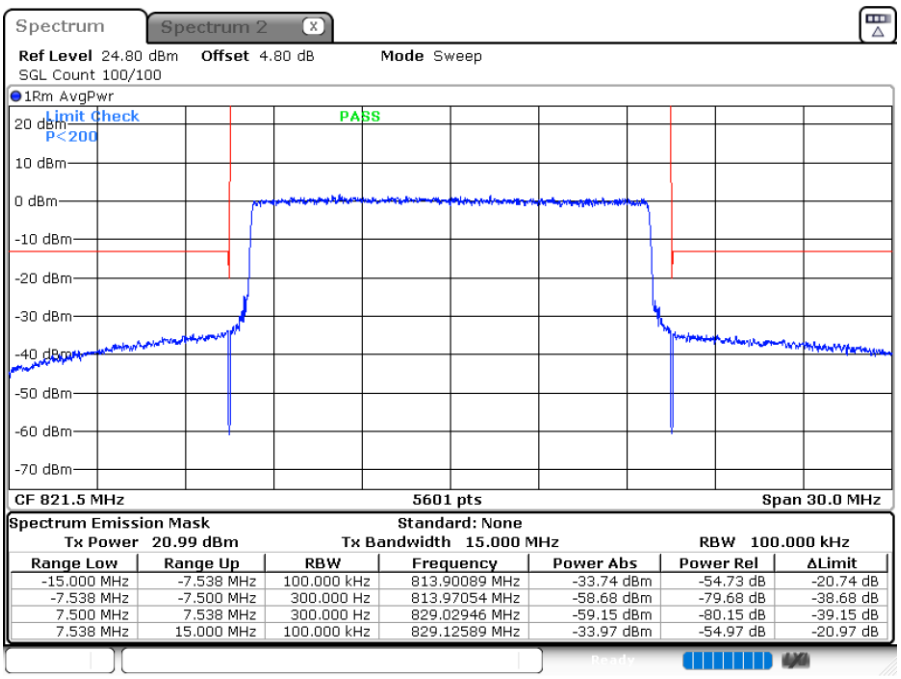
Band Edge / Full RB



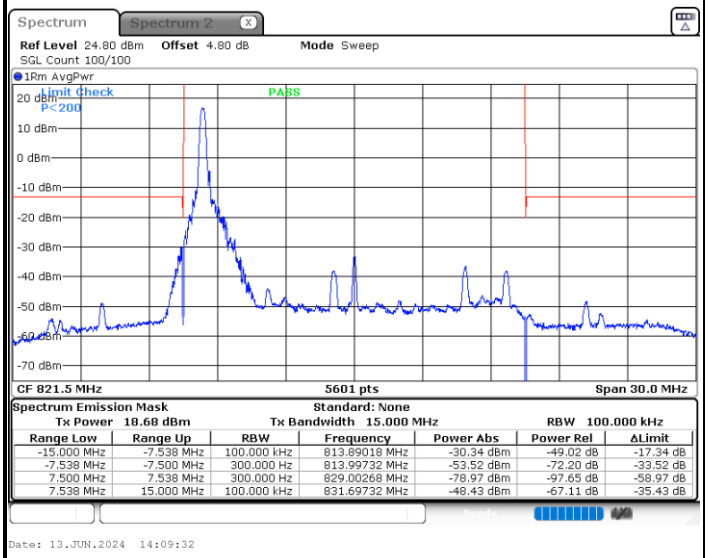
Spectrum Emission Mask Standard: None
Tx Power 20.99 dBm Tx Bandwidth 15.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.90089 MHz	-33.74 dBm	-54.73 dB	-20.74 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	813.97054 MHz	-58.68 dBm	-79.68 dB	-38.68 dB
7.500 MHz	7.538 MHz	300.000 Hz	829.02946 MHz	-59.15 dBm	-80.15 dB	-39.15 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.12589 MHz	-33.97 dBm	-54.97 dB	-20.97 dB

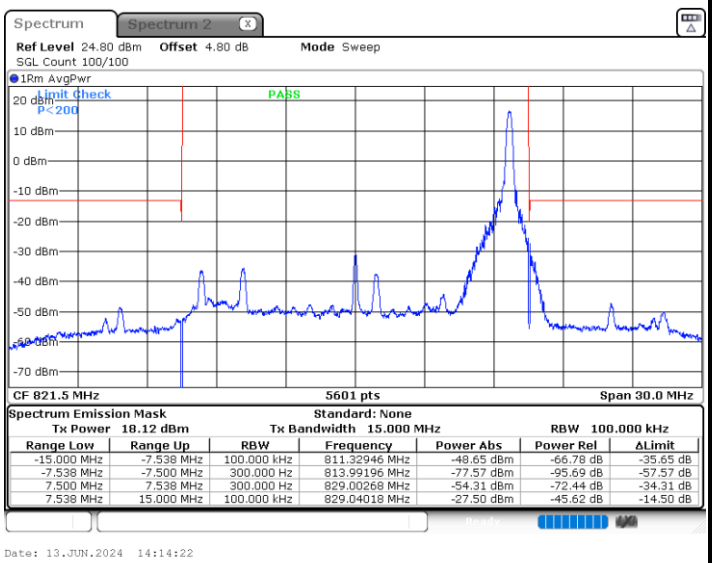
Date: 13.JUN.2024 14:07:32

LTE Band 26 / 15MHz / 256QAM

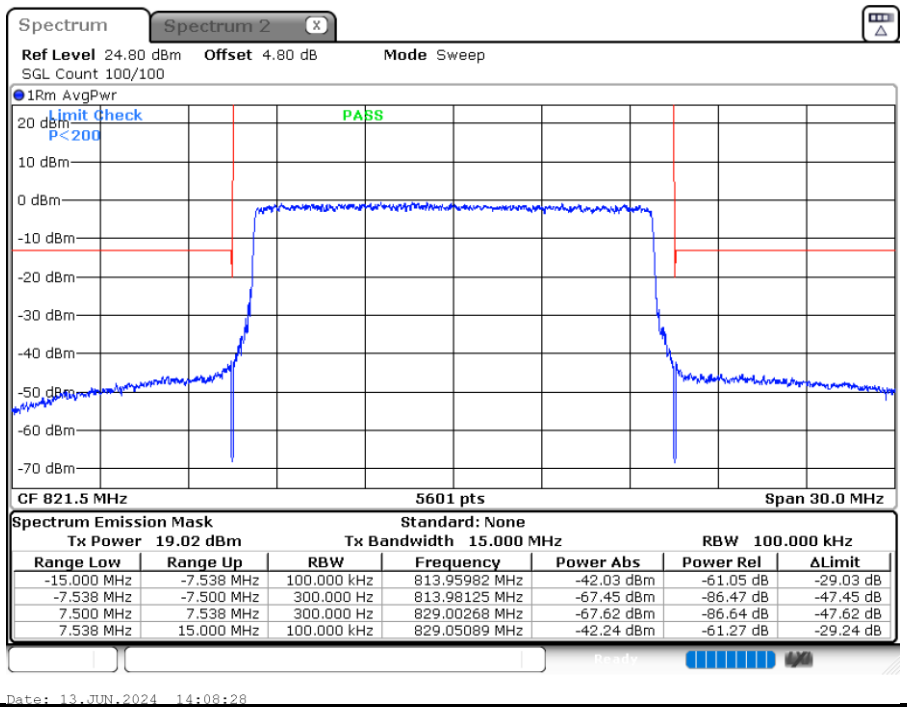
Middle Band Edge / 1 RB



Middle Band Edge / 1 RB max



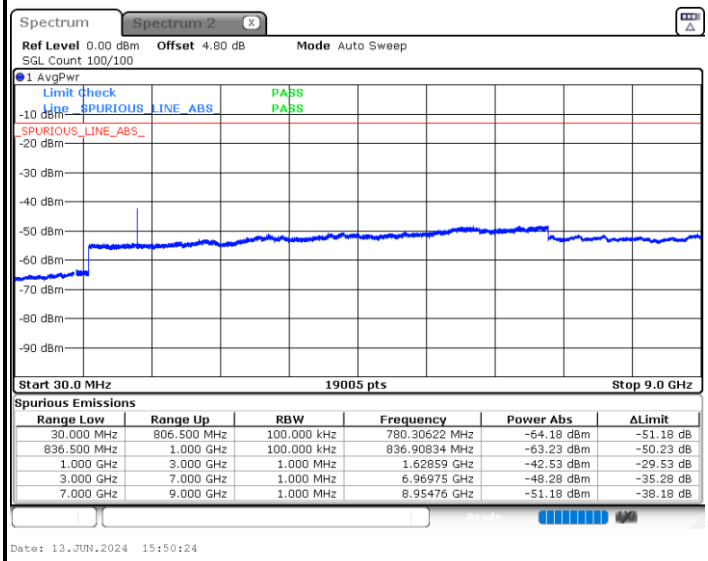
Band Edge / Full RB



Conducted Spurious Emission

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

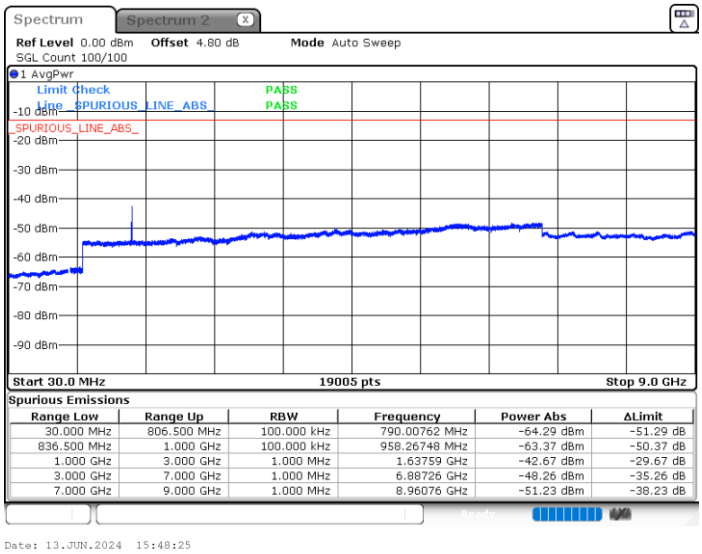


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	780.30622 MHz	-64.18 dBm	-51.18 dB
836.500 MHz	1.000 GHz	100.000 kHz	836.90834 MHz	-63.23 dBm	-50.23 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-42.53 dBm	-29.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96975 GHz	-48.28 dBm	-35.28 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.95476 GHz	-51.18 dBm	-38.18 dB

Date: 13.JUN.2024 15:50:24

Middle Channel / QPSK

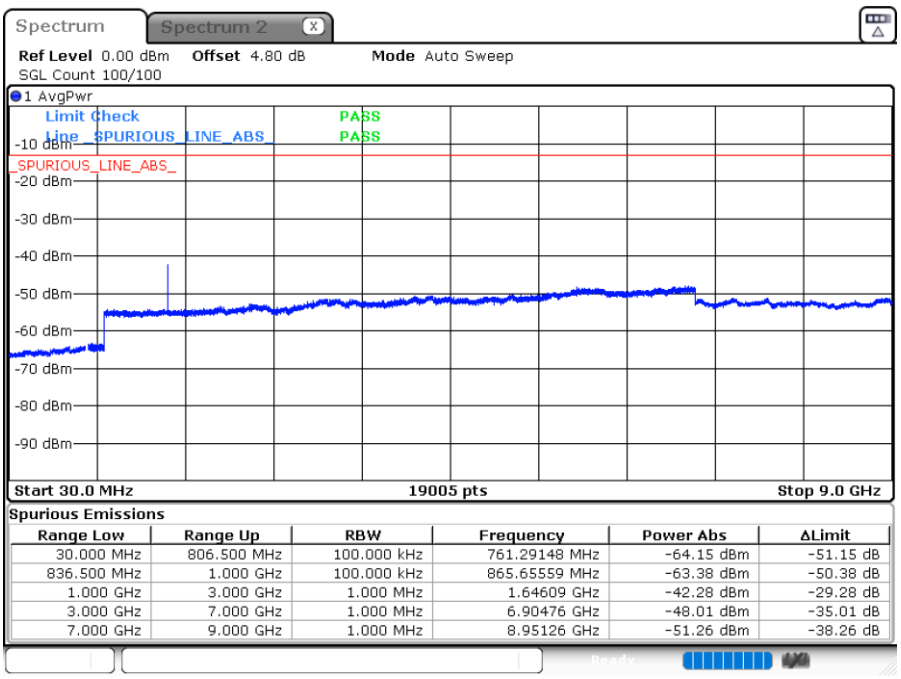


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	790.00762 MHz	-64.29 dBm	-51.29 dB
836.500 MHz	1.000 GHz	100.000 kHz	958.26748 MHz	-63.37 dBm	-50.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-42.67 dBm	-29.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88726 GHz	-48.26 dBm	-35.26 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.96076 GHz	-51.23 dBm	-38.23 dB

Date: 13.JUN.2024 15:48:25

Highest Channel / QPSK



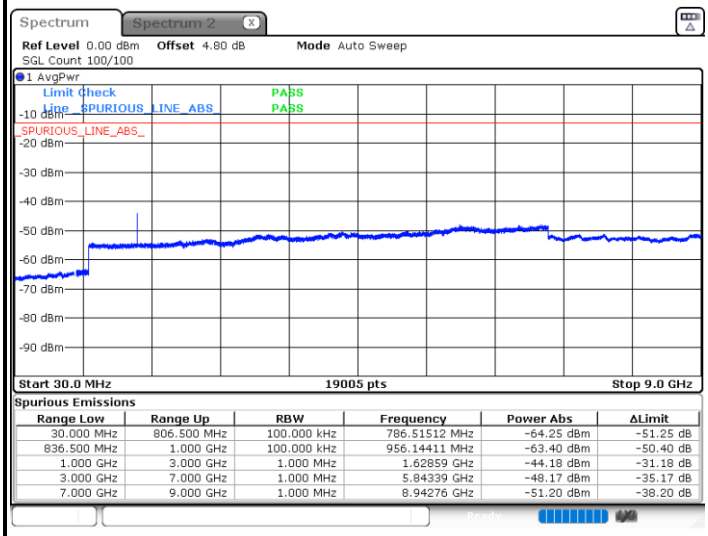
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	761.29148 MHz	-64.15 dBm	-51.15 dB
836.500 MHz	1.000 GHz	100.000 kHz	865.65559 MHz	-63.38 dBm	-50.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-42.28 dBm	-29.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90476 GHz	-48.01 dBm	-35.01 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.95126 GHz	-51.26 dBm	-38.26 dB

Date: 13.JUN.2024 16:23:19

LTE Band 26 / 3MHz

Lowest Channel / QPSK

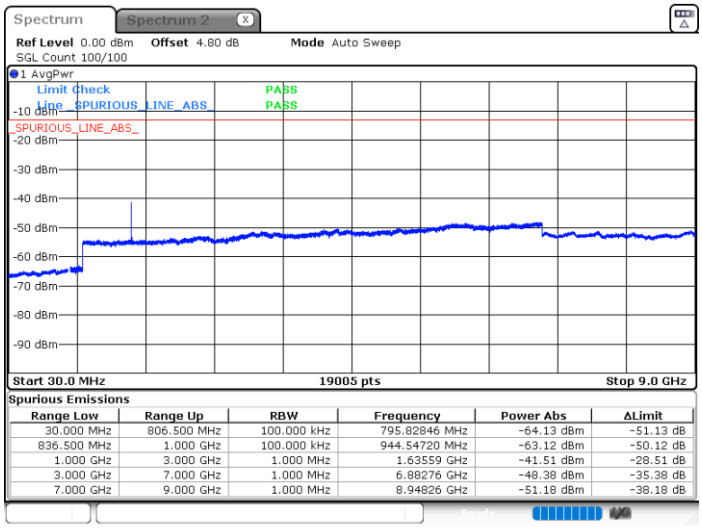


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	786.51512 MHz	-64.25 dBm	-51.25 dB
836.500 MHz	1.000 GHz	100.000 kHz	956.14411 MHz	-63.40 dBm	-50.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-44.18 dBm	-31.18 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.84339 GHz	-48.17 dBm	-35.17 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.94276 GHz	-51.20 dBm	-38.20 dB

Date: 13.JUN.2024 15:35:31

Middle Channel / QPSK

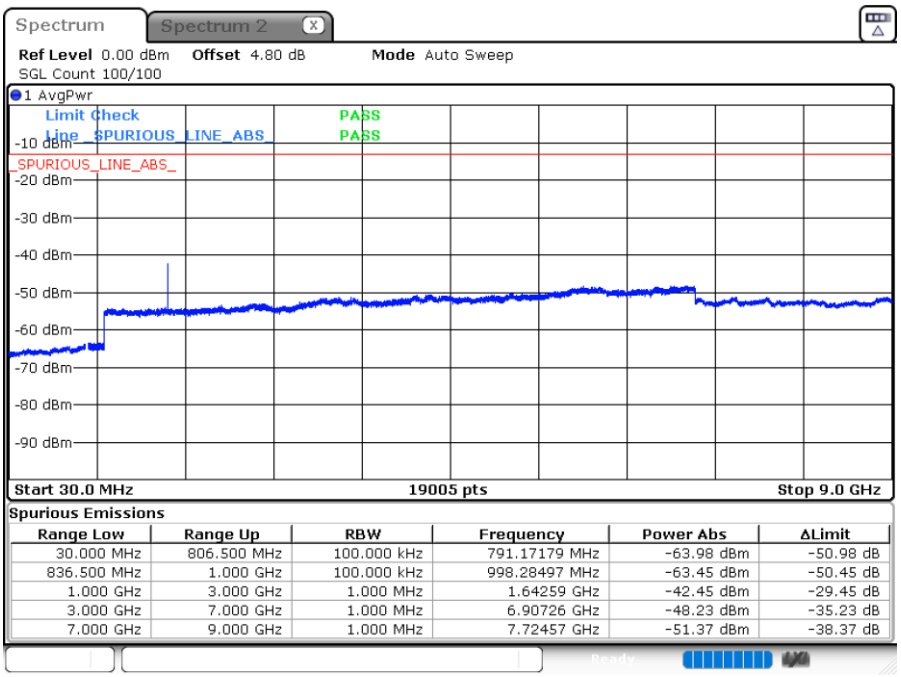


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	795.82846 MHz	-64.13 dBm	-51.13 dB
836.500 MHz	1.000 GHz	100.000 kHz	944.54720 MHz	-63.12 dBm	-50.12 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-41.51 dBm	-28.51 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88276 GHz	-48.38 dBm	-35.38 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.94826 GHz	-51.18 dBm	-38.18 dB

Date: 13.JUN.2024 15:31:23

Highest Channel / QPSK



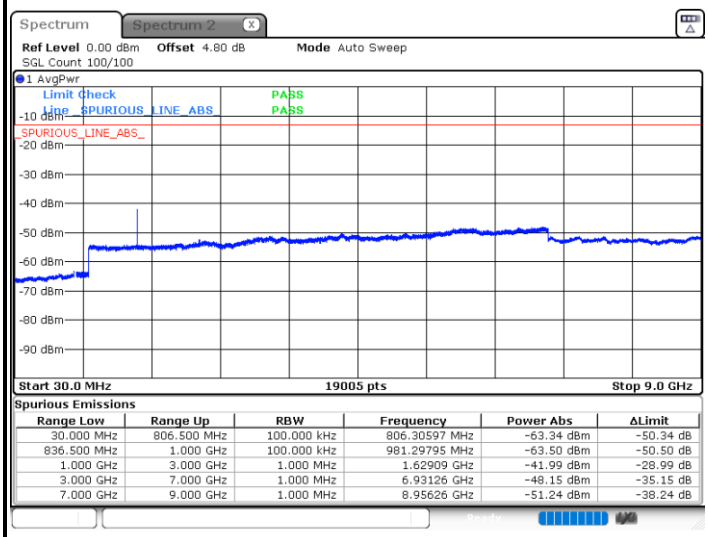
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	791.17179 MHz	-63.98 dBm	-50.98 dB
836.500 MHz	1.000 GHz	100.000 kHz	998.28497 MHz	-63.45 dBm	-50.45 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64259 GHz	-42.45 dBm	-29.45 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90726 GHz	-48.23 dBm	-35.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.72457 GHz	-51.37 dBm	-38.37 dB

Date: 13.JUN.2024 15:45:03

LTE Band 26 / 5MHz

Lowest Channel / QPSK

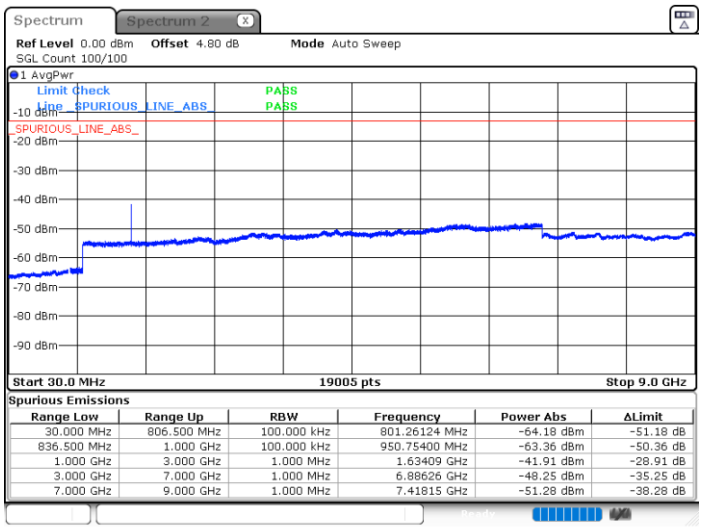


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	806.30597 MHz	-63.34 dBm	-50.34 dB
836.500 MHz	1.000 GHz	100.000 kHz	981.29795 MHz	-63.50 dBm	-50.50 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-41.99 dBm	-28.99 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93126 GHz	-48.15 dBm	-35.15 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.95626 GHz	-51.24 dBm	-38.24 dB

Date: 13.JUN.2024 15:17:30

Middle Channel / QPSK

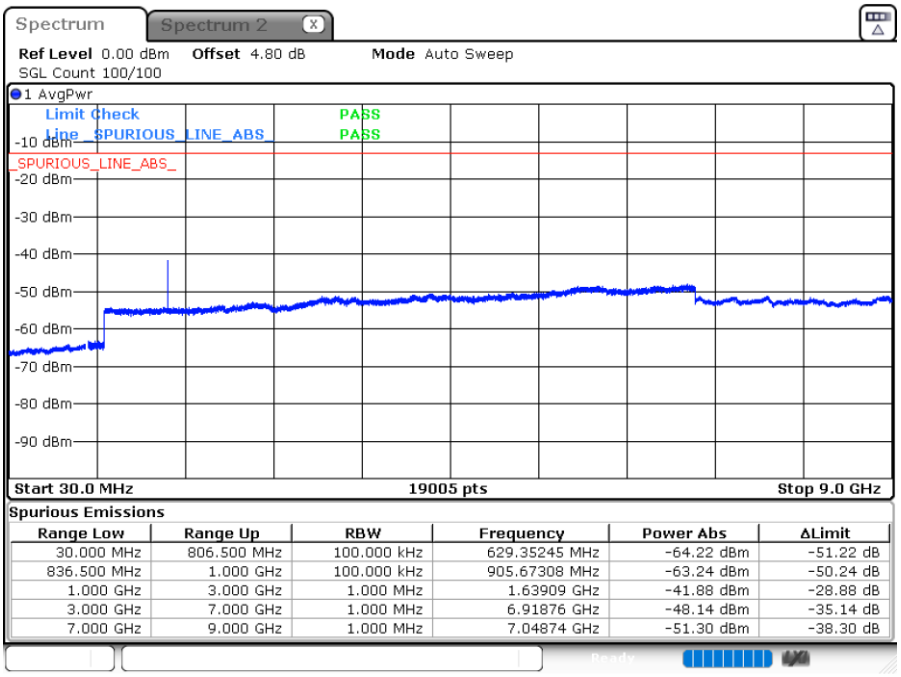


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	801.26124 MHz	-64.18 dBm	-51.18 dB
836.500 MHz	1.000 GHz	100.000 kHz	950.75400 MHz	-63.36 dBm	-50.36 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-41.91 dBm	-28.91 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88626 GHz	-48.25 dBm	-35.25 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.41815 GHz	-51.28 dBm	-38.28 dB

Date: 13.JUN.2024 15:15:15

Highest Channel / QPSK



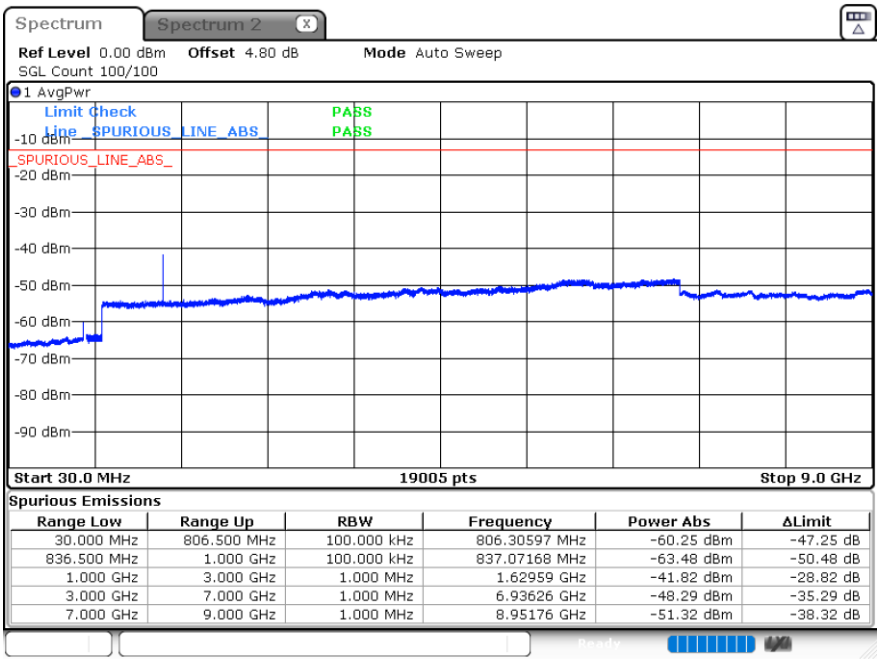
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	629.35245 MHz	-64.22 dBm	-51.22 dB
836.500 MHz	1.000 GHz	100.000 kHz	905.67308 MHz	-63.24 dBm	-50.24 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-41.88 dBm	-28.88 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91876 GHz	-48.14 dBm	-35.14 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04874 GHz	-51.30 dBm	-38.30 dB

Date: 13.JUN.2024 15:27:22

LTE Band 26 / 10MHz

Middle Channel / QPSK



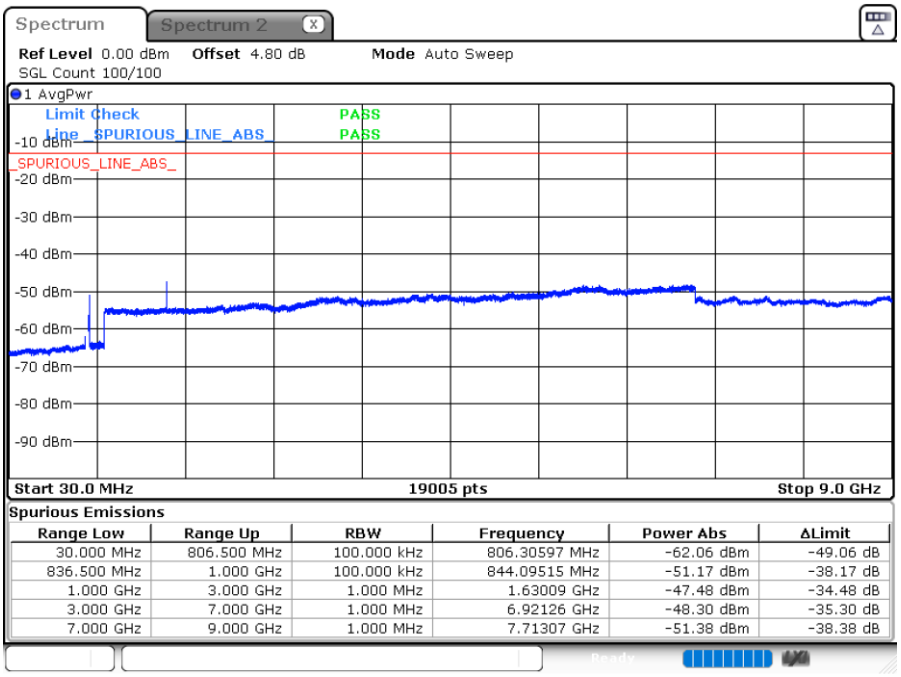
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	806.30597 MHz	-60.25 dBm	-47.25 dB
836.500 MHz	1.000 GHz	100.000 kHz	837.07168 MHz	-63.48 dBm	-50.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-41.82 dBm	-28.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93626 GHz	-48.29 dBm	-35.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.95176 GHz	-51.32 dBm	-38.32 dB

Date: 13.JUN.2024 14:56:51

LTE Band 26 / 15MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	806.500 MHz	100.000 kHz	806.30597 MHz	-62.06 dBm	-49.06 dB
836.500 MHz	1.000 GHz	100.000 kHz	844.09515 MHz	-51.17 dBm	-38.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63009 GHz	-47.48 dBm	-34.48 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92126 GHz	-48.30 dBm	-35.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.71307 GHz	-51.38 dBm	-38.38 dB

Date: 13.JUN.2024 14:15:48

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	0.0005	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0031	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0076	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage =3.89V. ; 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 :	Lex Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%

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 / Ant. 0								
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	-61.06	-13	-48.06	-68.03	1.58	10.70	H
	2440	-59.40	-13	-46.40	-67.65	2.102	12.50	H
	3256	-58.24	-13	-45.24	-67.13	2.856	13.90	H
	1632	-60.61	-13	-47.61	-67.58	1.58	10.70	V
	2440	-58.15	-13	-45.15	-66.40	2.10	12.50	V
	3256	-58.38	-13	-45.38	-67.27	2.86	13.90	V

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