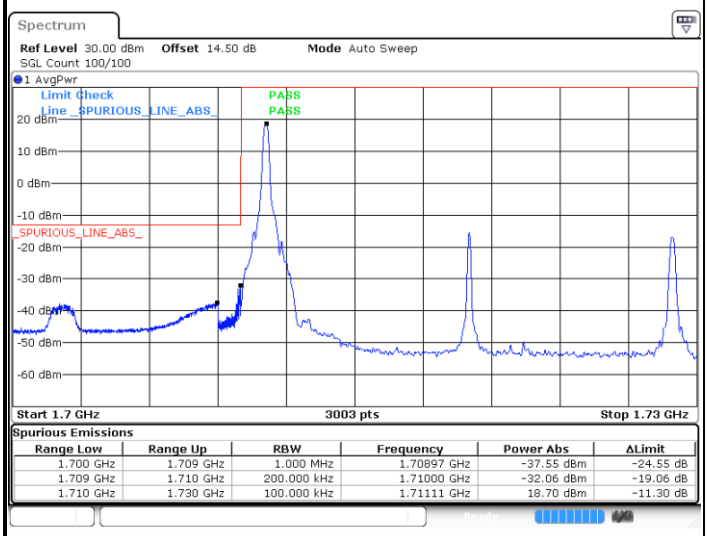
LTE Band 66 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

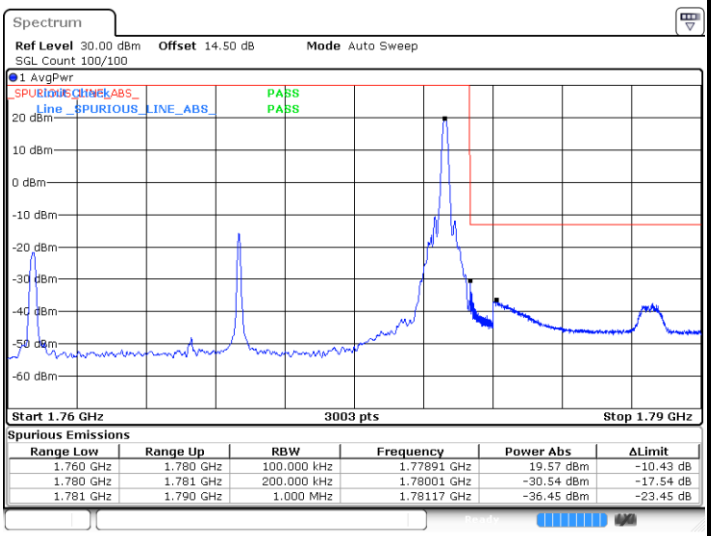


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70897 GHz	-37.55 dBm	-24.55 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.71000 GHz	-32.06 dBm	-19.06 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71111 GHz	18.70 dBm	-11.30 dB

Date: 24.APR.2025 04:21:16

Highest Band Edge / 1 RB

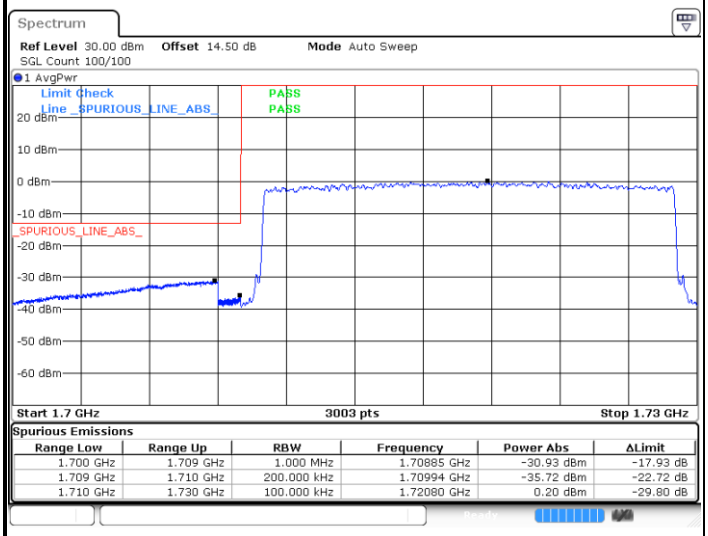


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.760 GHz	1.780 GHz	100.000 kHz	1.77891 GHz	19.57 dBm	-10.43 dB
1.780 GHz	1.781 GHz	200.000 kHz	1.78001 GHz	-30.54 dBm	-17.54 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78117 GHz	-36.45 dBm	-23.45 dB

Date: 24.APR.2025 04:33:58

Lowest Band Edge / Full RB

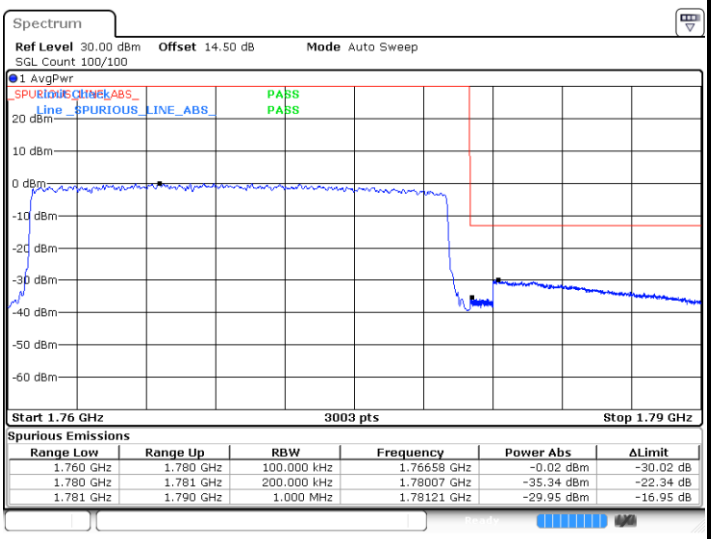


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70885 GHz	-30.93 dBm	-17.93 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70994 GHz	-35.72 dBm	-22.72 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.72080 GHz	0.20 dBm	-29.80 dB

Date: 24.APR.2025 04:25:02

Highest Band Edge / Full RB



Spurious Emissions

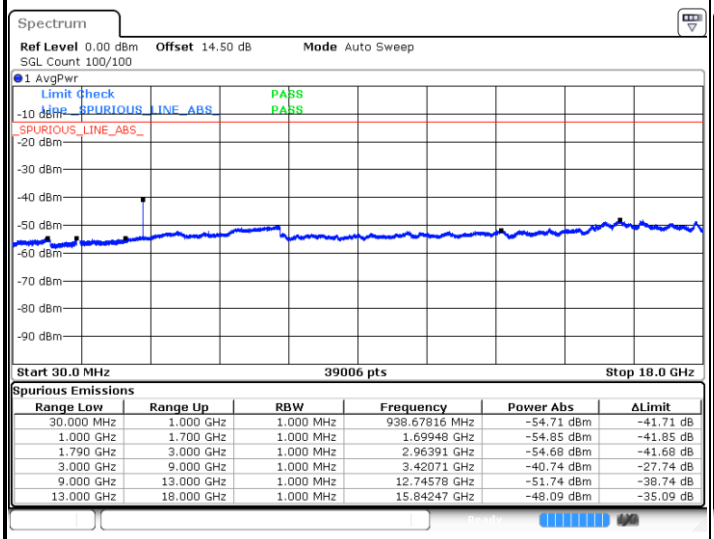
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.760 GHz	1.780 GHz	100.000 kHz	1.76658 GHz	-0.02 dBm	-30.02 dB
1.780 GHz	1.781 GHz	200.000 kHz	1.78007 GHz	-35.34 dBm	-22.34 dB
1.781 GHz	1.790 GHz	1.000 MHz	1.78121 GHz	-29.95 dBm	-16.95 dB

Date: 24.APR.2025 04:37:44

Conducted Spurious Emission

LTE Band 66 / 1.4MHz

Lowest Channel / QPSK

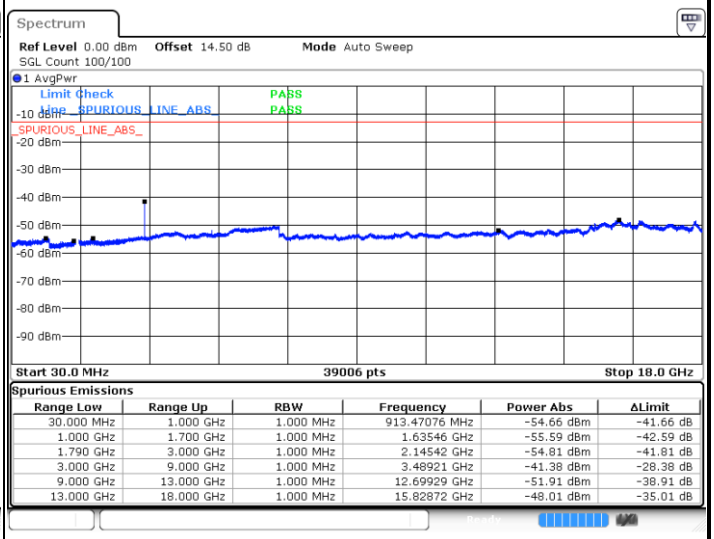


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	938.67816 MHz	-54.71 dBm	-41.71 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-54.85 dBm	-41.85 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.96391 GHz	-54.68 dBm	-41.68 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42071 GHz	-40.74 dBm	-27.74 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.74578 GHz	-51.74 dBm	-38.74 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.84247 GHz	-48.09 dBm	-35.09 dB

Date: 24.APR.2025 02:38:20

Middle Channel / QPSK

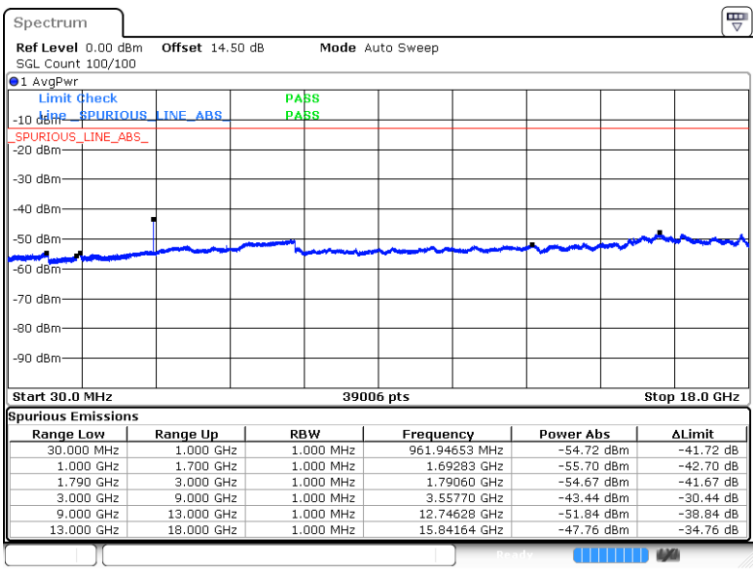


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	913.47076 MHz	-54.66 dBm	-41.66 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63546 GHz	-55.59 dBm	-42.59 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14542 GHz	-54.81 dBm	-41.81 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.48921 GHz	-41.38 dBm	-28.38 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69929 GHz	-51.91 dBm	-38.91 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.82872 GHz	-48.01 dBm	-35.01 dB

Date: 24.APR.2025 02:43:20

Highest Channel / QPSK



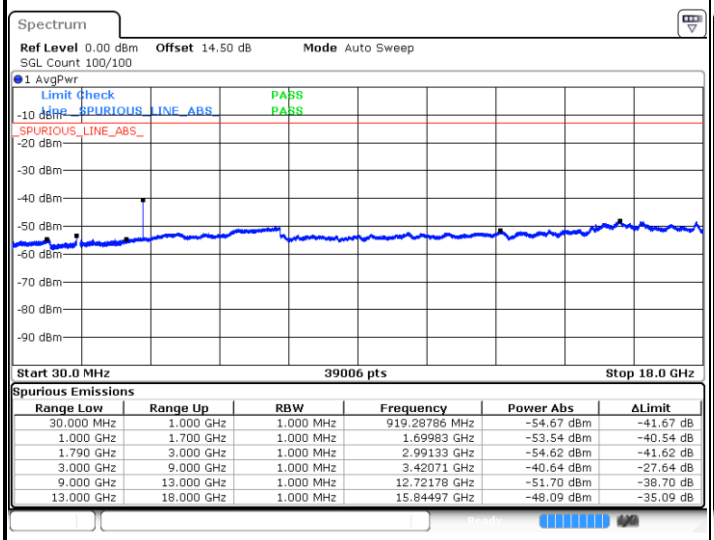
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	961.94653 MHz	-54.72 dBm	-41.72 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69283 GHz	-55.70 dBm	-42.70 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79060 GHz	-54.67 dBm	-41.67 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.55770 GHz	-43.44 dBm	-30.44 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.74628 GHz	-51.84 dBm	-38.84 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.84164 GHz	-47.76 dBm	-34.76 dB

Date: 24.APR.2025 02:49:41

LTE Band 66 / 3MHz

Lowest Channel / QPSK

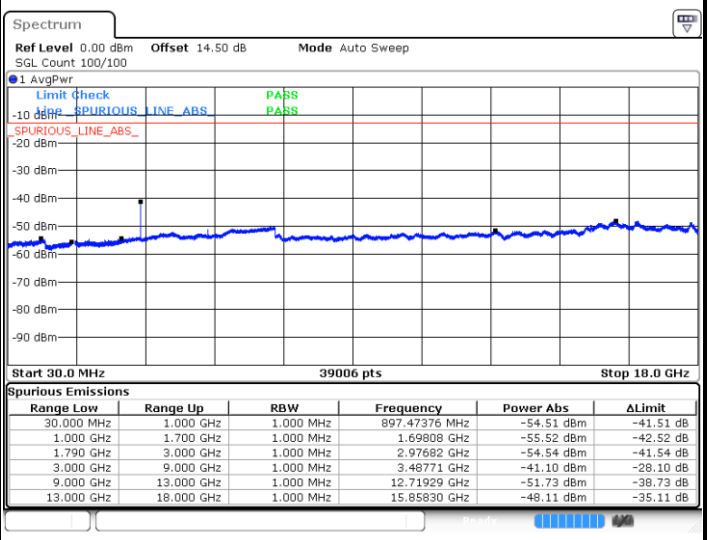


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	919.28786 MHz	-54.67 dBm	-41.67 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-53.54 dBm	-40.54 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.99133 GHz	-54.62 dBm	-41.62 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42071 GHz	-40.64 dBm	-27.64 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.72178 GHz	-51.70 dBm	-38.70 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.84497 GHz	-48.09 dBm	-35.09 dB

Date: 24.APR.2025 02:59:11

Middle Channel / QPSK

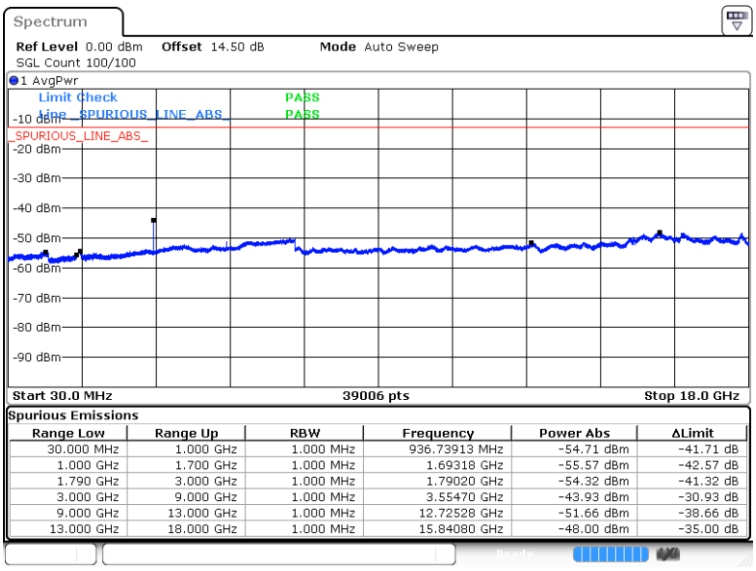


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	897.47376 MHz	-54.51 dBm	-41.51 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69808 GHz	-55.52 dBm	-42.52 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.97682 GHz	-54.54 dBm	-41.54 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.48771 GHz	-41.10 dBm	-28.10 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.71929 GHz	-51.73 dBm	-38.73 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.85830 GHz	-48.11 dBm	-35.11 dB

Date: 24.APR.2025 03:04:13

Highest Channel / QPSK



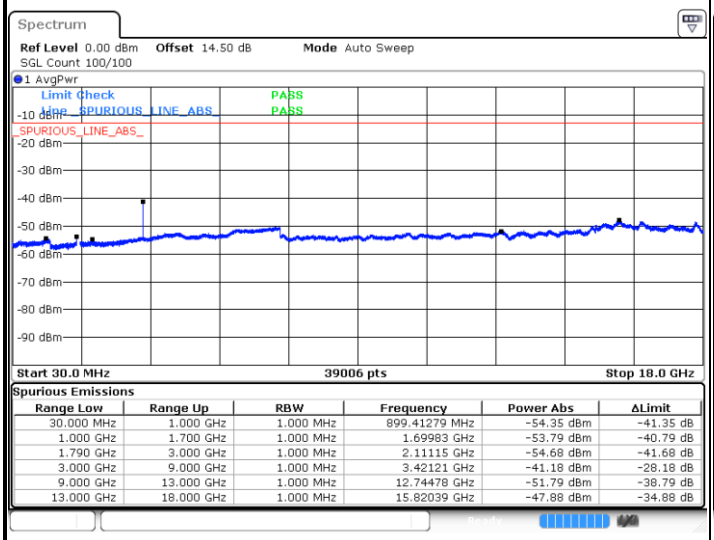
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	936.73913 MHz	-54.71 dBm	-41.71 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69318 GHz	-55.57 dBm	-42.57 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79020 GHz	-54.32 dBm	-41.32 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.55470 GHz	-43.93 dBm	-30.93 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.72528 GHz	-51.66 dBm	-38.66 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.84080 GHz	-48.00 dBm	-35.00 dB

Date: 24.APR.2025 03:14:19

LTE Band 66 / 5MHz

Lowest Channel / QPSK

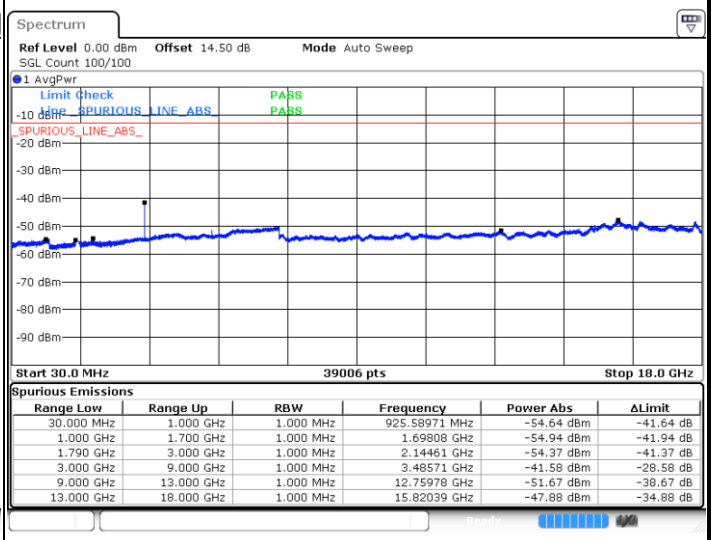


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	899.41279 MHz	-54.35 dBm	-41.35 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-53.79 dBm	-40.79 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.11115 GHz	-54.68 dBm	-41.68 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42121 GHz	-41.18 dBm	-28.18 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.74478 GHz	-51.79 dBm	-38.79 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.82039 GHz	-47.88 dBm	-34.88 dB

Date: 24.APR.2025 03:20:03

Middle Channel / QPSK

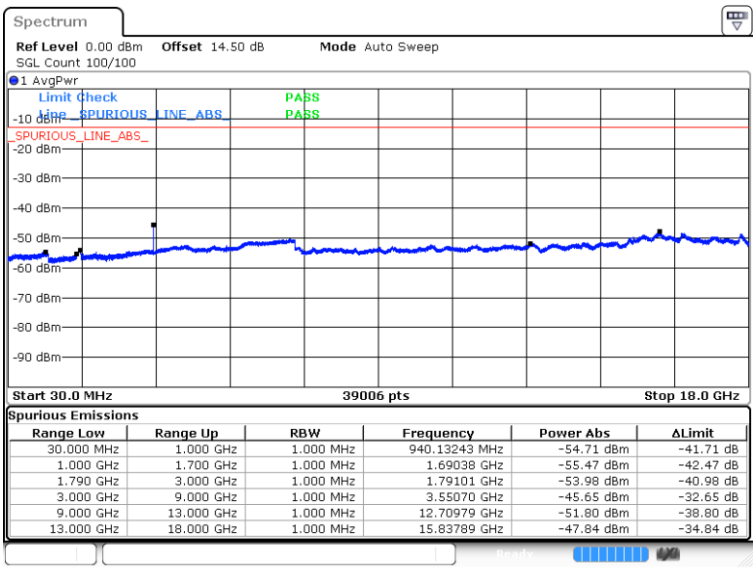


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.58971 MHz	-54.64 dBm	-41.64 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69808 GHz	-54.94 dBm	-41.94 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14461 GHz	-54.37 dBm	-41.37 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.48571 GHz	-41.58 dBm	-28.58 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.75978 GHz	-51.67 dBm	-38.67 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.82039 GHz	-47.88 dBm	-34.88 dB

Date: 24.APR.2025 03:25:03

Highest Channel / QPSK



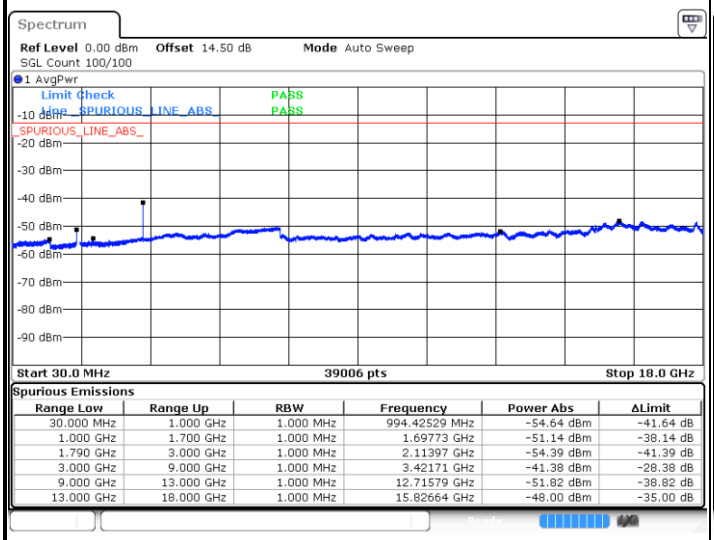
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.13243 MHz	-54.71 dBm	-41.71 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69038 GHz	-55.47 dBm	-42.47 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79101 GHz	-53.98 dBm	-40.98 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.55070 GHz	-45.65 dBm	-32.65 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70979 GHz	-51.80 dBm	-38.80 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.83789 GHz	-47.84 dBm	-34.84 dB

Date: 24.APR.2025 03:35:09

LTE Band 66 / 10MHz

Lowest Channel / QPSK

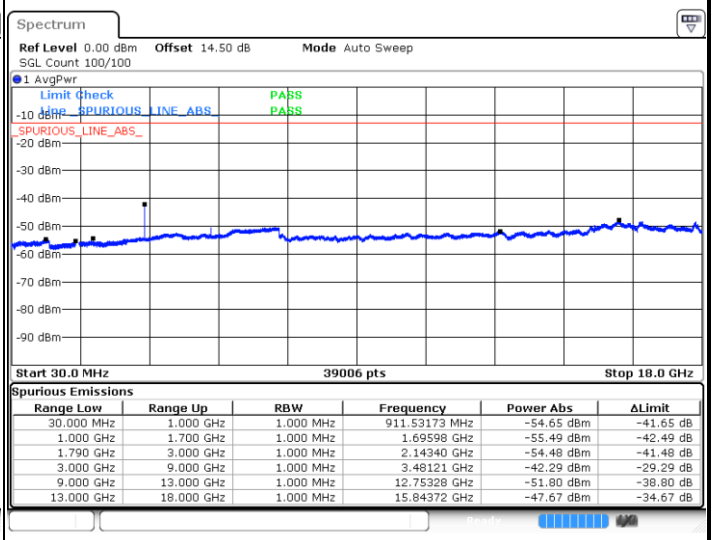


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-54.64 dBm	-41.64 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69773 GHz	-51.14 dBm	-38.14 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.11397 GHz	-54.39 dBm	-41.39 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42171 GHz	-41.38 dBm	-28.38 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.71579 GHz	-51.82 dBm	-38.82 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.82664 GHz	-48.00 dBm	-35.00 dB

Date: 24.APR.2025 03:44:38

Middle Channel / QPSK

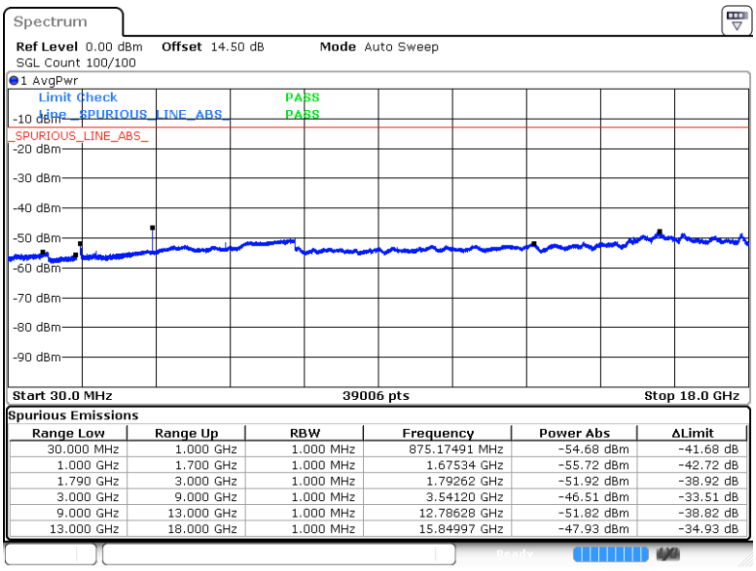


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	911.53173 MHz	-54.65 dBm	-41.65 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69598 GHz	-55.49 dBm	-42.49 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14340 GHz	-54.48 dBm	-41.48 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.48121 GHz	-42.29 dBm	-29.29 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.75328 GHz	-51.80 dBm	-38.80 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.84372 GHz	-47.67 dBm	-34.67 dB

Date: 24.APR.2025 03:45:52

Highest Channel / QPSK



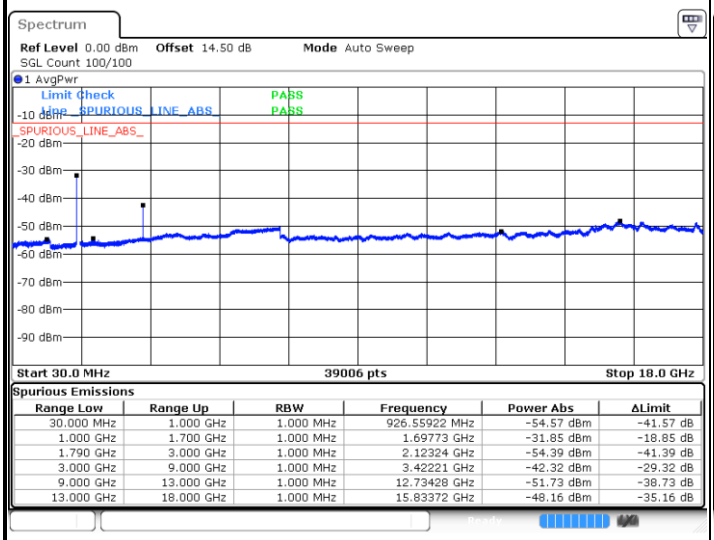
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	875.17491 MHz	-54.68 dBm	-41.68 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67534 GHz	-55.72 dBm	-42.72 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79262 GHz	-51.92 dBm	-38.92 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.54120 GHz	-46.51 dBm	-33.51 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.78628 GHz	-51.82 dBm	-38.82 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.84997 GHz	-47.93 dBm	-34.93 dB

Date: 24.APR.2025 03:55:58

LTE Band 66 / 15MHz

Lowest Channel / QPSK

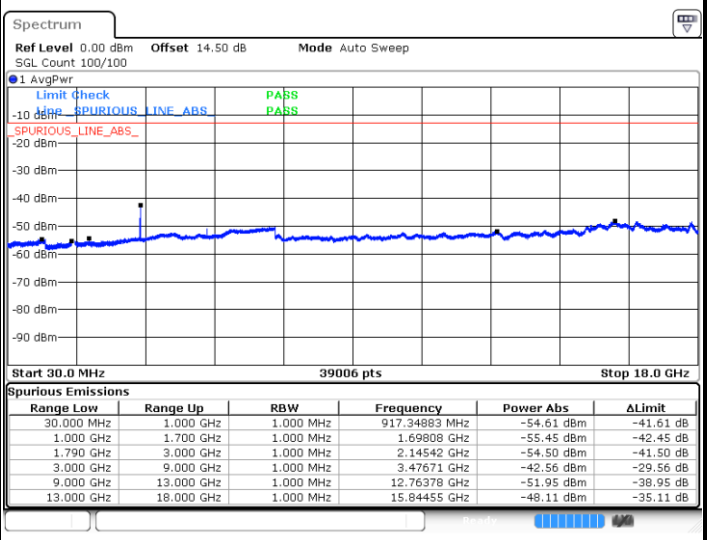


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	926.55922 MHz	-54.57 dBm	-41.57 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69773 GHz	-31.85 dBm	-18.85 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.12324 GHz	-54.39 dBm	-41.39 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42221 GHz	-42.32 dBm	-29.32 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.73428 GHz	-51.73 dBm	-38.73 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.83372 GHz	-48.16 dBm	-35.16 dB

Date: 24.APR.2025 04:05:27

Middle Channel / QPSK

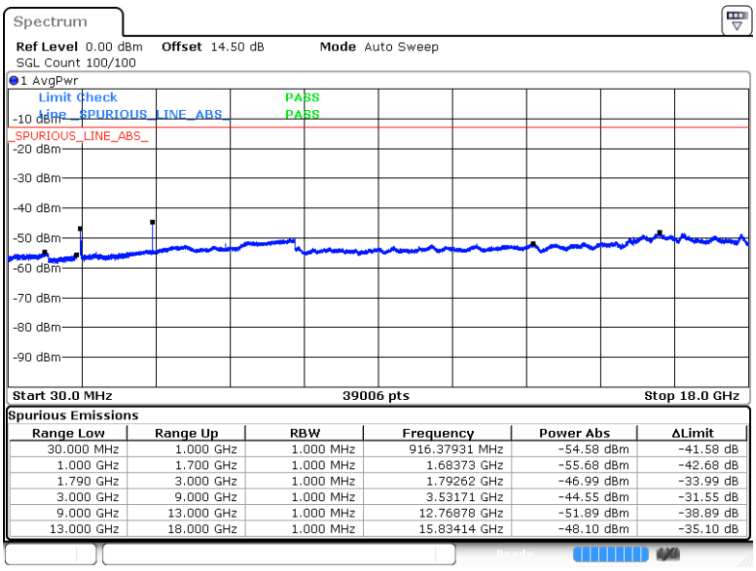


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	917.34883 MHz	-54.61 dBm	-41.61 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69808 GHz	-55.45 dBm	-42.45 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.14542 GHz	-54.50 dBm	-41.50 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.47671 GHz	-42.56 dBm	-29.56 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.76378 GHz	-51.95 dBm	-38.95 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.84455 GHz	-48.11 dBm	-35.11 dB

Date: 24.APR.2025 04:06:42

Highest Channel / QPSK



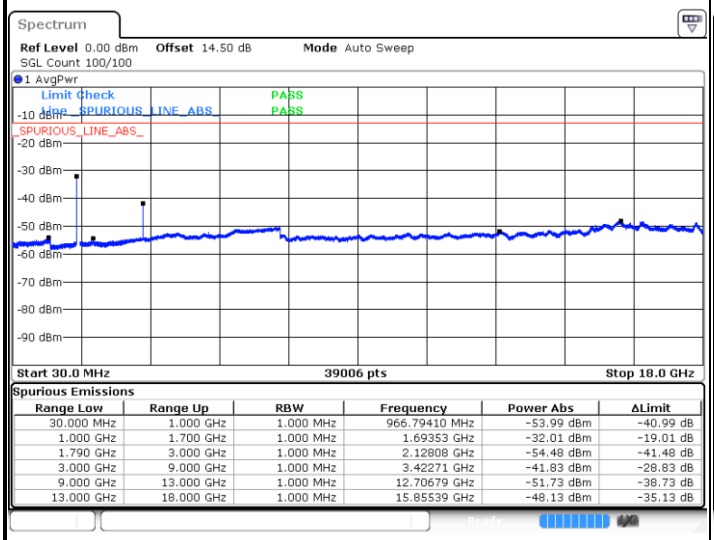
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	916.37931 MHz	-54.58 dBm	-41.58 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68373 GHz	-55.68 dBm	-42.68 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79262 GHz	-46.99 dBm	-33.99 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.53171 GHz	-44.55 dBm	-31.55 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.76878 GHz	-51.89 dBm	-38.89 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.83414 GHz	-48.10 dBm	-35.10 dB

Date: 24.APR.2025 04:16:48

LTE Band 66 / 20MHz

Lowest Channel / QPSK

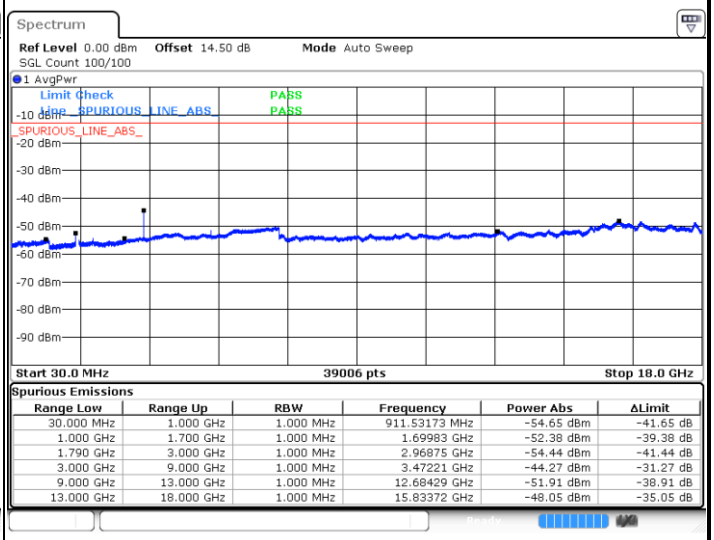


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	966.79410 MHz	-53.99 dBm	-40.99 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69353 GHz	-32.01 dBm	-19.01 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.12808 GHz	-54.48 dBm	-41.48 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.42271 GHz	-41.83 dBm	-28.83 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70679 GHz	-51.73 dBm	-38.73 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.85539 GHz	-48.13 dBm	-35.13 dB

Date: 24.APR.2025 04:26:17

Middle Channel / QPSK

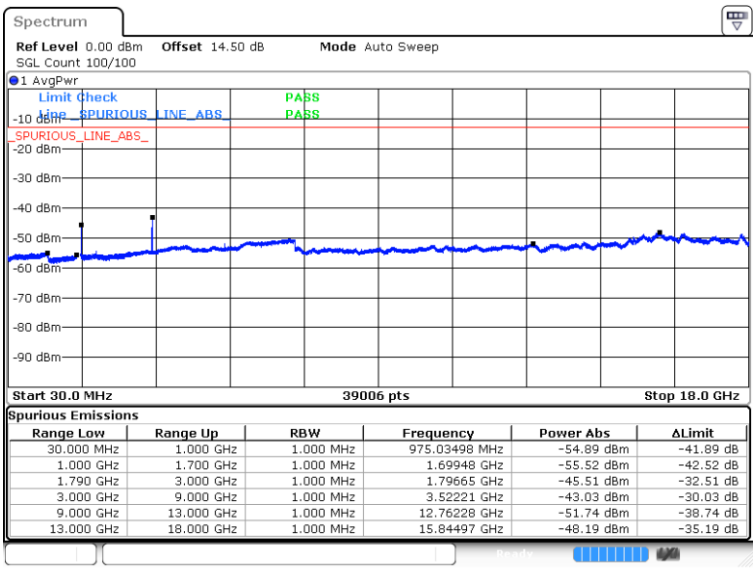


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	911.53173 MHz	-54.65 dBm	-41.65 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-52.38 dBm	-39.38 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.96875 GHz	-54.44 dBm	-41.44 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.47221 GHz	-44.27 dBm	-31.27 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68429 GHz	-51.91 dBm	-38.91 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.83372 GHz	-48.05 dBm	-35.05 dB

Date: 24.APR.2025 04:27:31

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	975.03498 MHz	-54.89 dBm	-41.89 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-55.52 dBm	-42.52 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79665 GHz	-45.51 dBm	-32.51 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.52221 GHz	-43.03 dBm	-30.03 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.76228 GHz	-51.74 dBm	-38.74 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.84497 GHz	-48.19 dBm	-35.19 dB

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Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0046	PASS
40	Normal Voltage	0.0050	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0087	
-20	Normal Voltage	0.0076	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0056	

Note:

1. Normal Voltage = 3.87 V.；Battery End Point (BEP) = 3.6 V.；Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Zhaohui Liang	Temperature :	22~25℃
		Relative Humidity :	48~52%

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 2 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3742.18	-53.65	-13	-40.65	-76.49	-60.40	5.85	12.60	H
	5613.27	-57.09	-13	-44.09	-81.22	-62.89	7.30	13.10	H
	7484.36	-55.43	-13	-42.43	-82.09	-58.58	8.35	11.50	H
	3742.18	-48.17	-13	-35.17	-73.02	-54.92	5.85	12.60	V
	5613.27	-56.72	-13	-43.72	-81.7	-62.52	7.30	13.10	V
	7484.36	-55.19	-13	-42.19	-81.83	-58.34	8.35	11.50	V

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

LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1659.5	-63.61	-13	-50.61	-75.22	-66.86	4.00	9.40	H
	2489.25	-52.06	-13	-39.06	-70.93	-55.63	4.88	10.60	H
	3319	-58.29	-13	-45.29	-79.07	-63.22	5.52	12.60	H
	1659.5	-63.75	-13	-50.75	-76.03	-67.00	4.00	9.40	V
	2489.25	-58.10	-13	-45.10	-77.23	-61.67	4.88	10.60	V
	3319	-57.83	-13	-44.83	-79.31	-62.76	5.52	12.60	V

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

LTE Band 66 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3472	-54.33	-13	-41.33	-76.18	-61.18	5.65	12.50	H
	5208	-57.17	-13	-44.17	-81.29	-62.84	7.13	12.80	H
	6944	-56.21	-13	-43.21	-81.87	-59.61	8.40	11.80	H
	3472	-53.00	-13	-40.00	-74.65	-59.85	5.65	12.50	V
	5208	-57.38	-13	-44.38	-81.67	-63.05	7.13	12.80	V
	6944	-55.77	-13	-42.77	-82.16	-59.17	8.40	11.80	V

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