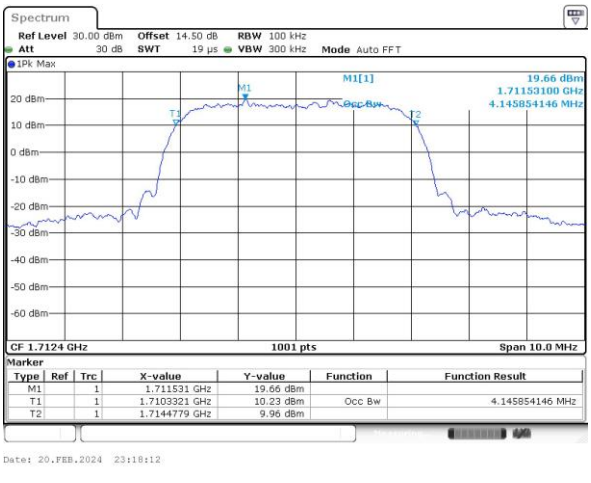
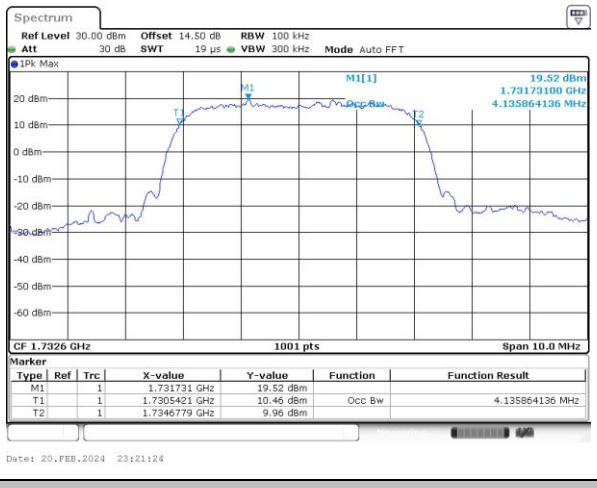
WCDMA Band IV (RMC 12.2Kbps)

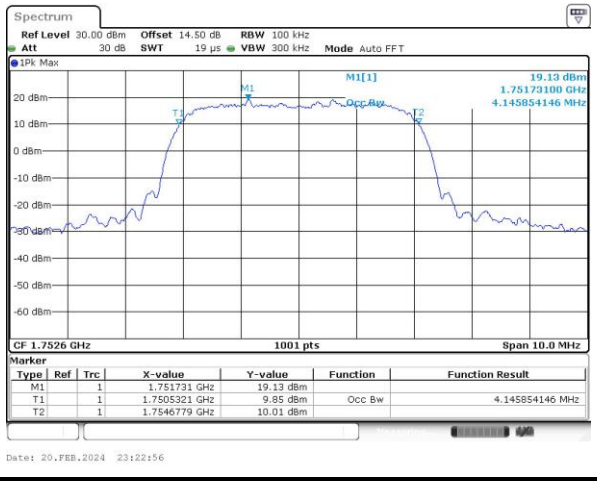
Lowest Channel



Middle Channel



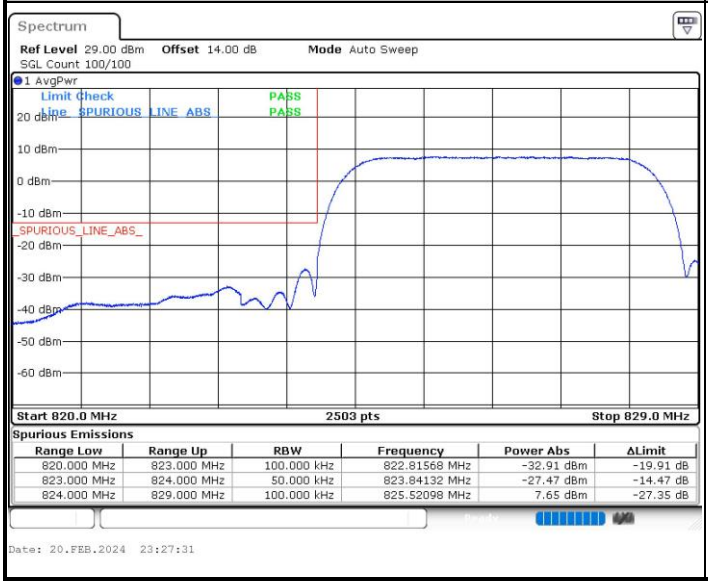
Highest Channel



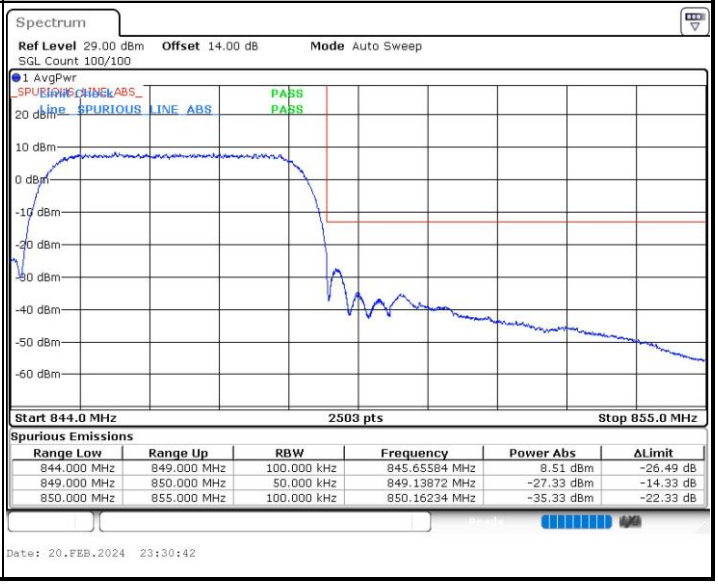
Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

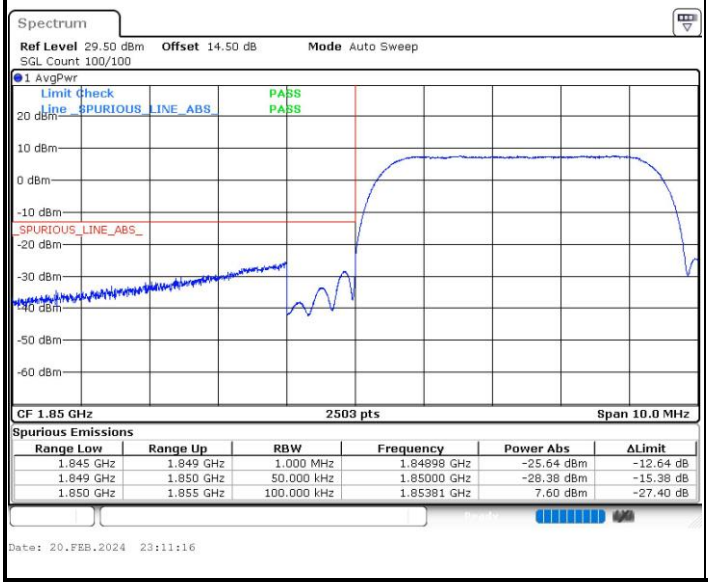


Highest Band Edge

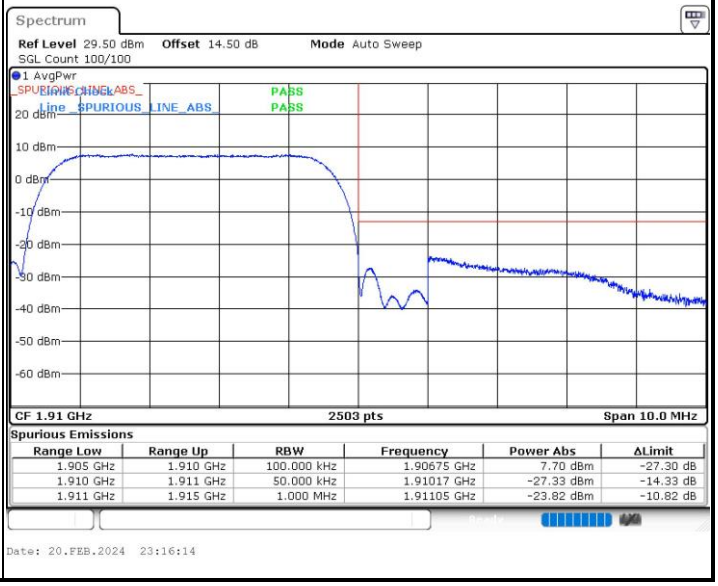


WCDMA Band II (RMC 12.2Kbps)

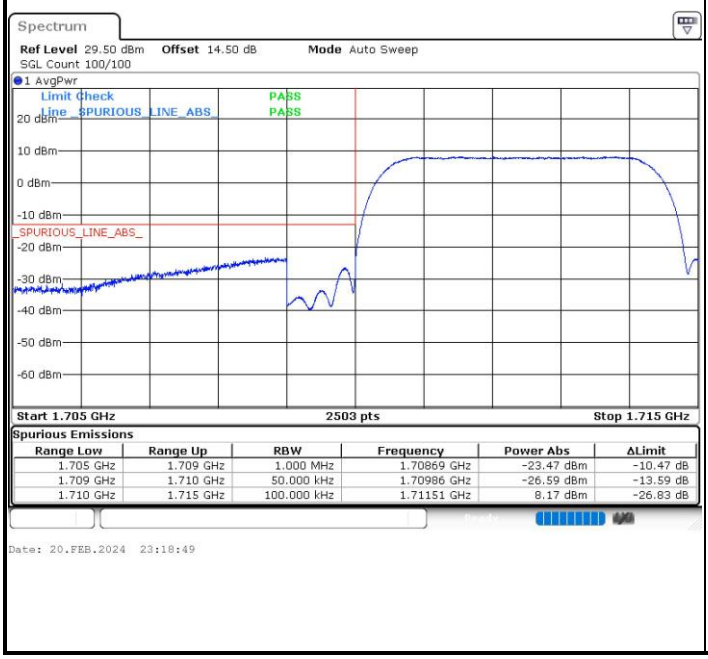
Lowest Band Edge

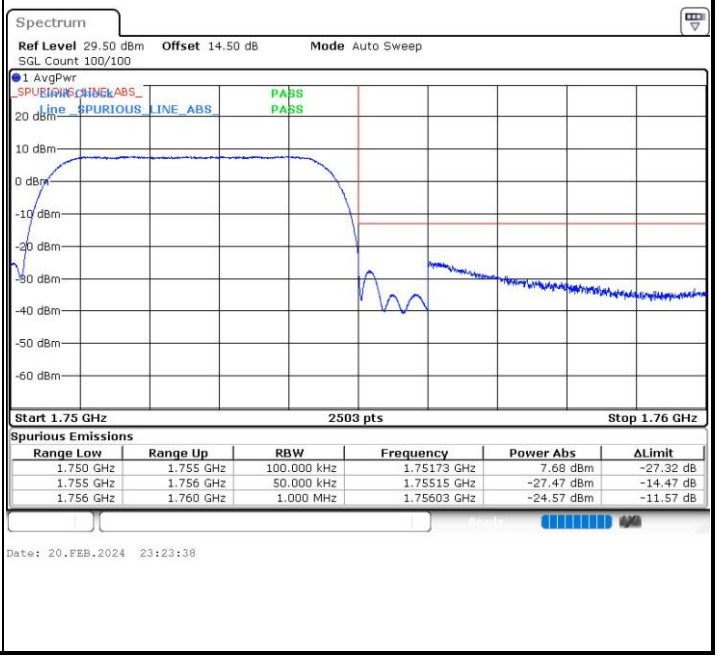


Highest Band Edge



WCDMA Band IV (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**

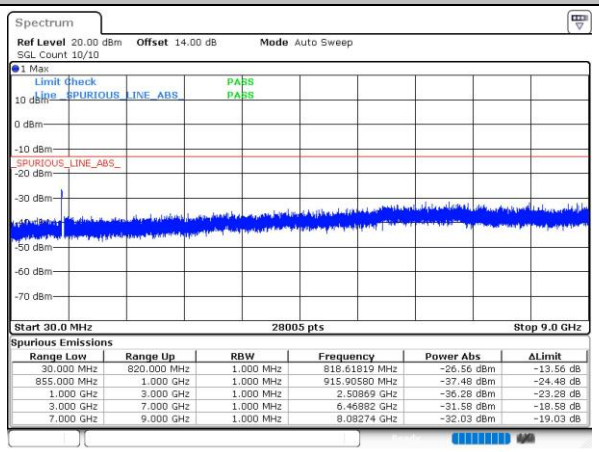




Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	818.61819 MHz	-26.56 dBm	-13.56 dB
855.000 MHz	1.000 GHz	1.000 MHz	915.90580 MHz	-37.48 dBm	-24.48 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50869 GHz	-36.28 dBm	-23.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.46882 GHz	-31.58 dBm	-18.58 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.08274 GHz	-32.03 dBm	-19.03 dB

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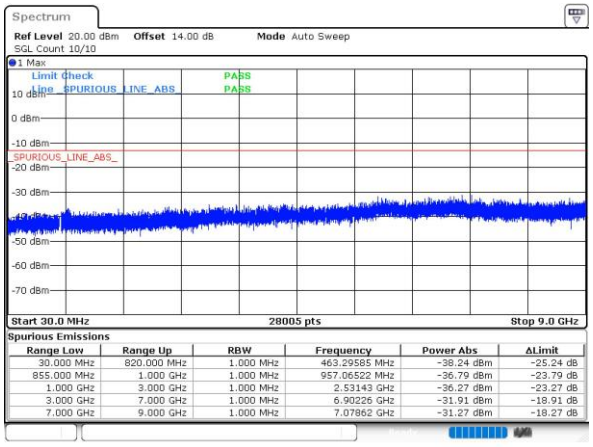
Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	463.29585 MHz	-38.24 dBm	-25.24 dB
855.000 MHz	1.000 GHz	1.000 MHz	957.06522 MHz	-36.79 dBm	-23.79 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.53143 GHz	-36.27 dBm	-23.27 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90226 GHz	-31.91 dBm	-18.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.07862 GHz	-31.27 dBm	-18.27 dB

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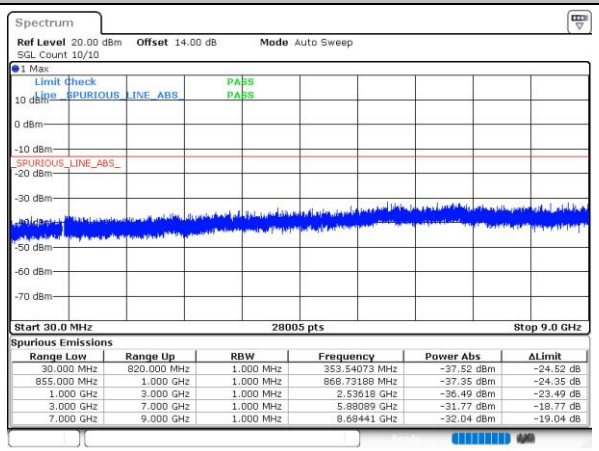
Highest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	820.000 MHz	1.000 MHz	353.54073 MHz	-37.52 dBm	-24.52 dB
855.000 MHz	1.000 GHz	1.000 MHz	868.73188 MHz	-37.35 dBm	-24.35 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.53618 GHz	-36.49 dBm	-23.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.88089 GHz	-31.77 dBm	-18.77 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.68441 GHz	-32.04 dBm	-19.04 dB

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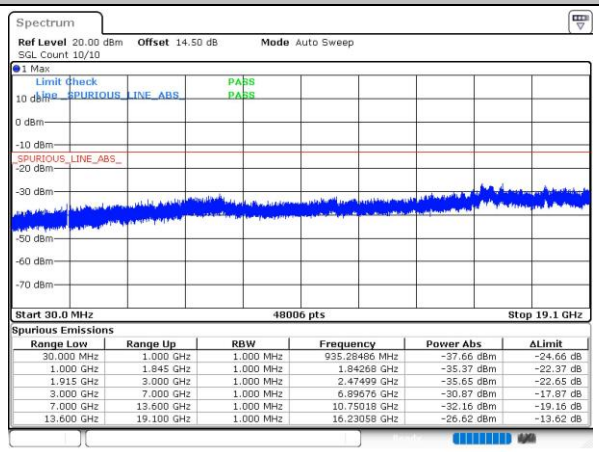
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	935.28486 MHz	-37.66 dBm	-24.66 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.84268 GHz	-35.37 dBm	-22.37 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.47499 GHz	-35.65 dBm	-22.65 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89676 GHz	-30.87 dBm	-17.87 dB
7.000 GHz	13.600 GHz	1.000 MHz	10.75018 GHz	-32.16 dBm	-19.16 dB
13.600 GHz	19.100 GHz	1.000 MHz	16.23058 GHz	-26.62 dBm	-13.62 dB

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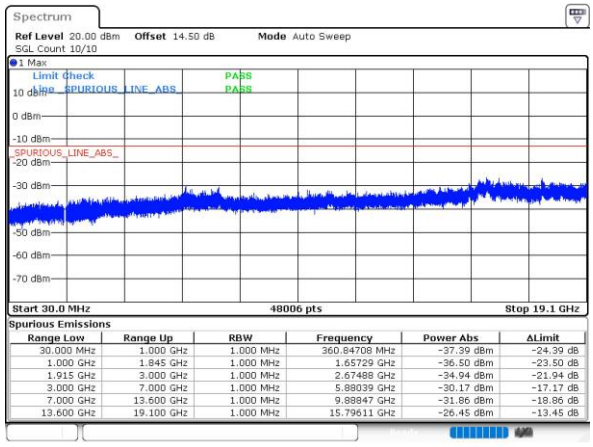
Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	360.84708 MHz	-37.39 dBm	-24.39 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.65729 GHz	-36.50 dBm	-23.50 dB
1.915 GHz	3.000 GHz	1.000 MHz	2.67488 GHz	-34.94 dBm	-21.94 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.98039 GHz	-30.17 dBm	-17.17 dB
7.000 GHz	13.600 GHz	1.000 MHz	9.88847 GHz	-31.86 dBm	-18.86 dB
13.600 GHz	19.100 GHz	1.000 MHz	15.79611 GHz	-26.45 dBm	-13.45 dB

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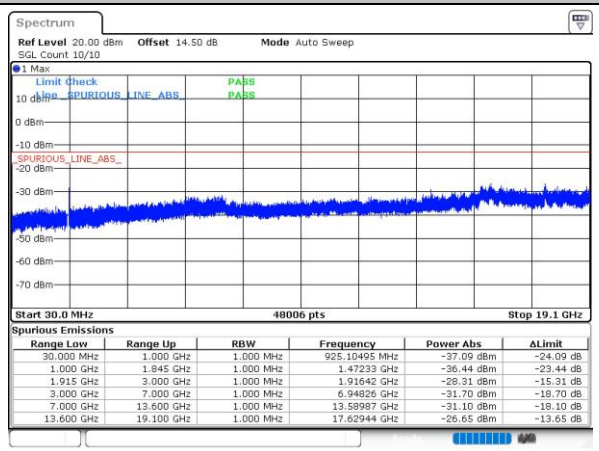
Highest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.10495 MHz	-37.09 dBm	-24.09 dB
1.000 GHz	1.845 GHz	1.000 MHz	1.47233 GHz	-36.44 dBm	-23.44 dB
1.915 GHz	3.000 GHz	1.000 MHz	1.91642 GHz	-28.31 dBm	-15.31 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94826 GHz	-31.70 dBm	-18.70 dB
7.000 GHz	13.600 GHz	1.000 MHz	13.58987 GHz	-31.10 dBm	-18.10 dB
13.600 GHz	19.100 GHz	1.000 MHz	17.62944 GHz	-26.65 dBm	-13.65 dB

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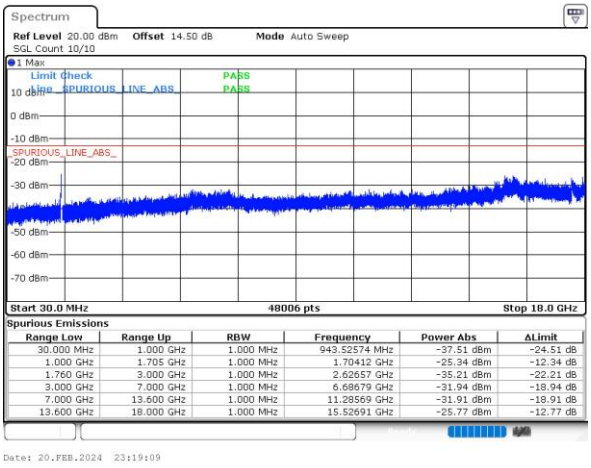
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.52574 MHz	-37.51 dBm	-24.51 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.70412 GHz	-25.34 dBm	-12.34 dB
1.760 GHz	3.000 GHz	1.000 MHz	2.62657 GHz	-35.21 dBm	-22.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.68679 GHz	-31.94 dBm	-18.94 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.28569 GHz	-31.91 dBm	-18.91 dB
13.600 GHz	18.000 GHz	1.000 MHz	15.52691 GHz	-25.77 dBm	-12.77 dB

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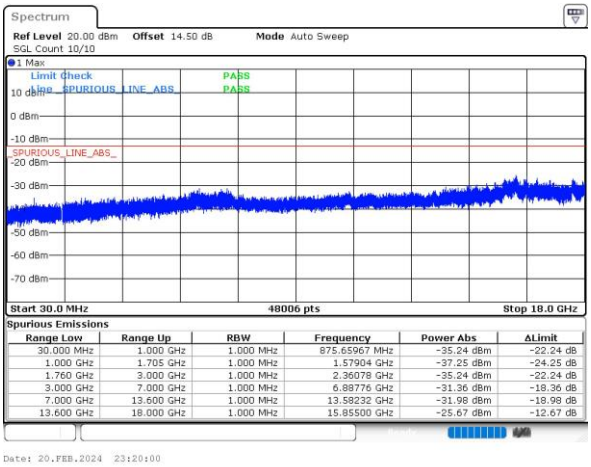
Middle Channel

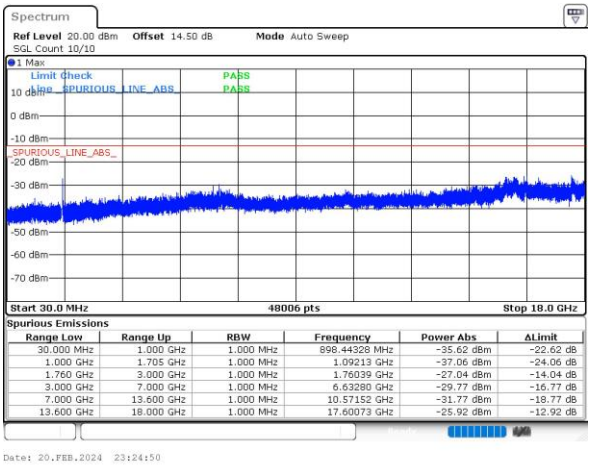


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	875.65967 MHz	-35.24 dBm	-22.24 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.57904 GHz	-37.25 dBm	-24.25 dB
1.760 GHz	3.000 GHz	1.000 MHz	2.36078 GHz	-35.24 dBm	-22.24 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88776 GHz	-31.36 dBm	-18.36 dB
7.000 GHz	13.600 GHz	1.000 MHz	13.58232 GHz	-31.98 dBm	-18.98 dB
13.600 GHz	18.000 GHz	1.000 MHz	15.85500 GHz	-25.67 dBm	-12.67 dB

Date: 20.FEB.2024 23:20:00

Highest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	898.44328 MHz	-35.62 dBm	-22.62 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.09213 GHz	-37.06 dBm	-24.06 dB
1.760 GHz	3.000 GHz	1.000 MHz	1.76039 GHz	-27.04 dBm	-14.04 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.63280 GHz	-29.77 dBm	-16.77 dB
7.000 GHz	13.600 GHz	1.000 MHz	10.57152 GHz	-31.77 dBm	-18.77 dB
13.600 GHz	18.000 GHz	1.000 MHz	17.60073 GHz	-25.92 dBm	-12.92 dB

Date: 20.FEB.2024 23:24:50

Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0063	
30	Normal Voltage	0.0068	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0057	
20	Maximum Voltage	0.0056	
20	Normal Voltage	0.0062	
20	Battery End Point	0.0061	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0029	

Note:

1. Normal Voltage = 3.88V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.53 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0084	PASS
40	Normal Voltage	0.0092	
30	Normal Voltage	0.0080	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0037	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0057	
-20	Normal Voltage	0.0063	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0044	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0031	

Note:

1. Normal Voltage = 3.88V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.53 V

2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jia Kuang	Temperature :	22~25℃
		Relative Humidity :	48~52%

RSE pretest all the supported antennas, only the worst results are recorded in the report.

GSM850 (EDGE 1 Tx slots)_Ant.0									
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)
Lowest	1648.4	-52.12	-13	-39.12	-60.17	-55.35	3.98	9.36	H
	2472.6	-38.32	-13	-25.32	-50.51	-41.87	4.85	10.55	H
	3296.8	-61.38	-13	-48.38	-76.61	-66.31	5.50	12.58	H
	1648.4	-57.12	-13	-44.12	-65.21	-60.35	3.98	9.36	V
	2472.6	-45.41	-13	-32.41	-57.64	-48.96	4.85	10.55	V
	3296.8	-61.64	-13	-48.64	-76.78	-66.57	5.50	12.58	V
Middle	1672.8	-64.99	-13	-51.99	-72.50	-68.24	4.00	9.40	H
	2509.2	-57.99	-13	-44.99	-70.27	-61.56	4.88	10.60	H
	3345.6	-62.35	-13	-49.35	-77.43	-67.28	5.52	12.60	H
	1672.8	-64.62	-13	-51.62	-72.32	-67.87	4.00	9.40	V
	2509.2	-59.67	-13	-46.67	-72.07	-63.24	4.88	10.60	V
	3345.6	-62.29	-13	-49.29	-77.39	-67.22	5.52	12.60	V
Highest	1697.6	-54.78	-13	-41.78	-62.46	-57.95	4.10	9.42	H
	2546.4	-39.02	-13	-26.02	-51.62	-42.60	4.90	10.63	H
	3395.2	-61.66	-13	-48.66	-76.66	-66.58	5.55	12.62	H
	1697.6	-54.35	-13	-41.35	-62.21	-57.52	4.10	9.42	V
	2546.4	-43.29	-13	-30.29	-55.90	-46.87	4.90	10.63	V
	3395.2	-61.57	-13	-48.57	-76.58	-66.49	5.55	12.62	V

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

GSM1900 (EDGE 1 Tx slots) _Ant.0									
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)
Lowest	3700.4	-62.08	-13	-49.08	-78.53	-68.84	5.82	12.58	H
	5550.6	-60.58	-13	-47.58	-80.66	-66.30	7.28	13.00	H
	7400.8	-55.48	-13	-42.48	-80.09	-58.64	8.32	11.48	H
	3700.4	-61.99	-13	-48.99	-78.19	-68.75	5.82	12.58	V
	5550.6	-60.66	-13	-47.66	-80.59	-66.38	7.28	13.00	V
	7400.8	-55.13	-13	-42.13	-80.05	-58.29	8.32	11.48	V
Middle	3760	-61.53	-13	-48.53	-78.22	-68.28	5.85	12.60	H
	5640	-59.12	-13	-46.12	-79.96	-64.92	7.30	13.10	H
	7520	-56.23	-13	-43.23	-80.57	-59.38	8.35	11.50	H
	3760	-62.09	-13	-49.09	-78.34	-68.84	5.85	12.60	V
	5640	-60.32	-13	-47.32	-79.95	-66.12	7.30	13.10	V
	7520	-55.98	-13	-42.98	-80.74	-59.13	8.35	11.50	V
Highest	3819.6	-61.03	-13	-48.03	-77.90	-67.77	5.88	12.62	H
	5729.4	-57.89	-13	-44.89	-79.39	-63.70	7.32	13.13	H
	7639.2	-55.97	-13	-42.97	-80.12	-59.13	8.38	11.54	H
	3819.6	-61.38	-13	-48.38	-77.77	-68.12	5.88	12.62	V
	5729.4	-58.92	-13	-45.92	-79.59	-64.73	7.32	13.13	V
	7639.2	-55.34	-13	-42.34	-80.02	-58.50	8.38	11.54	V

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

WCDMA Band V(RMC 12.2Kbps)_Ant.0									
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)
Lowest	1652.8	-66.23	-13	-53.23	-74.18	-69.46	3.98	9.36	H
	2479.2	-63.22	-13	-50.22	-75.43	-66.77	4.85	10.55	H
	3305.6	-61.77	-13	-48.77	-76.97	-66.70	5.50	12.58	H
	1652.8	-66.54	-13	-53.54	-74.56	-69.77	3.98	9.36	V
	2479.2	-63.37	-13	-50.37	-75.63	-66.92	4.85	10.55	V
	3305.6	-61.69	-13	-48.69	-76.82	-66.62	5.50	12.58	V
Middle	1672.8	-66.57	-13	-53.57	-74.08	-69.82	4.00	9.40	H
	2509.2	-61.69	-13	-48.69	-73.97	-65.26	4.88	10.60	H
	3345.6	-62.02	-13	-49.02	-77.10	-66.95	5.52	12.60	H
	1672.8	-66.46	-13	-53.46	-74.16	-69.71	4.00	9.40	V
	2509.2	-63.51	-13	-50.51	-75.91	-67.08	4.88	10.60	V
	3345.6	-61.82	-13	-48.82	-76.92	-66.75	5.52	12.60	V
Highest	1693.2	-66.49	-13	-53.49	-74.15	-69.66	4.10	9.42	H
	2539.8	-62.92	-13	-49.92	-75.46	-66.50	4.90	10.63	H
	3386.4	-61.61	-13	-48.61	-76.63	-66.53	5.55	12.62	H
	1693.2	-66.31	-13	-53.31	-74.15	-69.48	4.10	9.42	V
	2539.8	-63.16	-13	-50.16	-75.73	-66.74	4.90	10.63	V
	3386.4	-61.42	-13	-48.42	-76.45	-66.34	5.55	12.62	V

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

WCDMA Band II(RMC 12.2Kbps) _Ant.0									
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)
Lowest	3704.8	-62.88	-13	-49.88	-78.35	-69.64	5.82	12.58	H
	5557.2	-61.28	-13	-48.28	-80.76	-67.00	7.28	13.00	H
	7409.6	-55.58	-13	-42.58	-80.37	-58.74	8.32	11.48	H
	3704.8	-63.61	-13	-50.61	-78.81	-70.37	5.82	12.58	V
	5557.2	-59.95	-13	-46.95	-79.28	-65.67	7.28	13.00	V
	7409.6	-55.24	-13	-42.24	-80.35	-58.40	8.32	11.48	V
Middle	3760	-61.62	-13	-48.62	-78.31	-68.37	5.85	12.60	H
	5640	-59.09	-13	-46.09	-79.93	-64.89	7.30	13.10	H
	7520	-56.16	-13	-43.16	-80.50	-59.31	8.35	11.50	H
	3760	-61.60	-13	-48.60	-77.85	-68.35	5.85	12.60	V
	5640	-60.18	-13	-47.18	-79.81	-65.98	7.30	13.10	V
	7520	-55.75	-13	-42.75	-80.51	-58.90	8.35	11.50	V
Highest	3815.2	-60.91	-13	-47.91	-77.77	-67.65	5.88	12.62	H
	5730	-58.10	-13	-45.10	-79.61	-63.91	7.32	13.13	H
	7630.4	-56.34	-13	-43.34	-80.51	-59.50	8.38	11.54	H
	3815.2	-61.60	-13	-48.60	-77.96	-68.34	5.88	12.62	V
	5722.8	-58.45	-13	-45.45	-79.05	-64.26	7.32	13.13	V
	7630.4	-55.72	-13	-42.72	-80.41	-58.88	8.38	11.54	V

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

WCDMA Band IV(RMC 12.2Kbps)_Ant.2									
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)
Lowest	3424.8	-62.39	-13	-49.39	-76.72	-69.27	5.60	12.48	H
	5137.2	-58.65	-13	-45.65	-78.20	-64.33	7.10	12.78	H
	6849.6	-58.27	-13	-45.27	-81.02	-61.66	8.38	11.77	H
	3424.8	-62.68	-13	-49.68	-77.03	-69.56	5.60	12.48	V
	5137.2	-58.87	-13	-45.87	-78.16	-64.55	7.10	12.78	V
	6849.6	-57.95	-13	-44.95	-81.12	-61.34	8.38	11.77	V
Middle	3465.2	-62.58	-13	-49.58	-77.10	-69.43	5.65	12.50	H
	5197.8	-58.97	-13	-45.97	-78.59	-64.64	7.13	12.80	H
	6930.4	-57.91	-13	-44.91	-80.75	-61.31	8.40	11.80	H
	3465.2	-62.51	-13	-49.51	-77.06	-69.36	5.65	12.50	V
	5197.8	-59.31	-13	-46.31	-78.55	-64.98	7.13	12.80	V
	6930.4	-57.68	-13	-44.68	-80.81	-61.08	8.40	11.80	V
Highest	3505.2	-61.95	-13	-48.95	-76.66	-68.79	5.68	12.52	H
	5257.8	-59.51	-13	-46.51	-78.72	-65.18	7.15	12.82	H
	7010.4	-57.80	-13	-44.80	-80.76	-61.23	8.42	11.85	H
	3505.2	-62.45	-13	-49.45	-77.21	-69.29	5.68	12.52	V
	5257.8	-59.45	-13	-46.45	-78.22	-65.12	7.15	12.82	V
	7010.4	-57.13	-13	-44.13	-80.3	-60.56	8.42	11.85	V

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