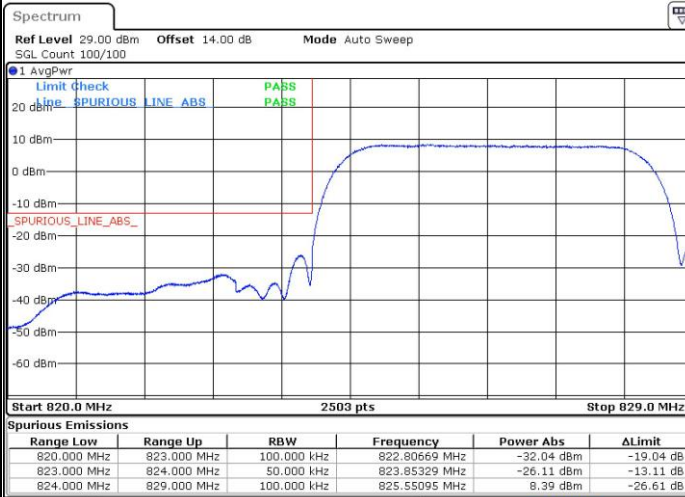




Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

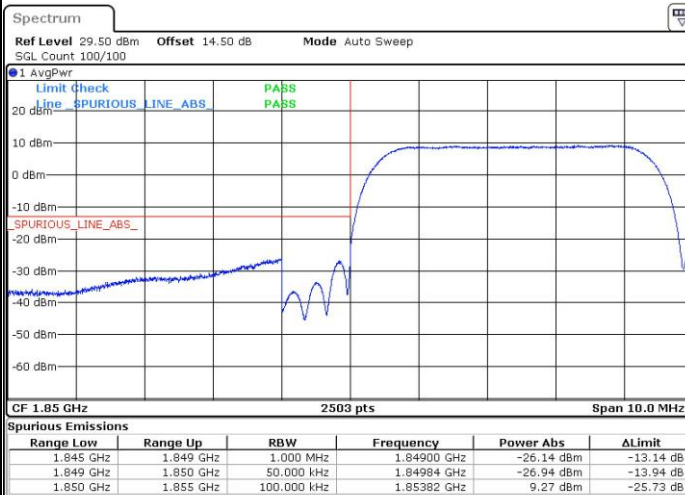


Highest Band Edge

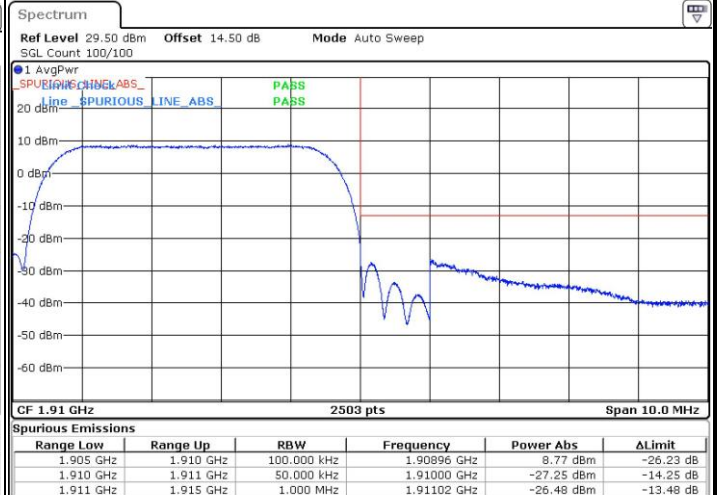


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge





WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 27.OCT.2024 15:53:40



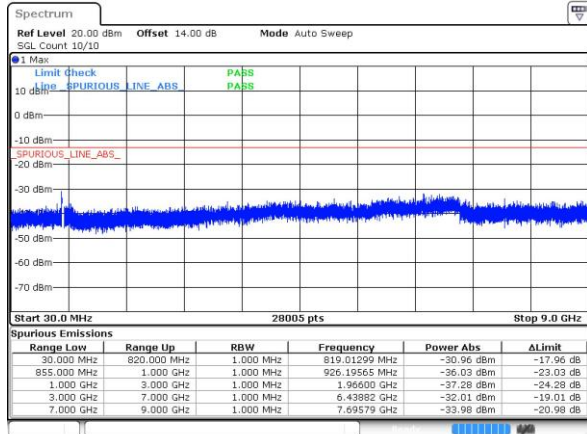
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Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

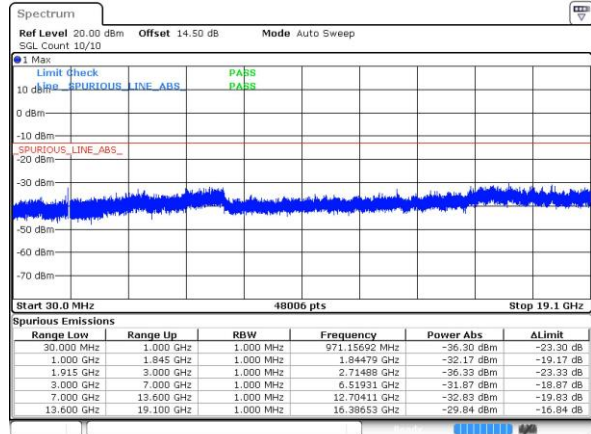
Lowest Channel



Date: 27 OCT 2024 16:16:19

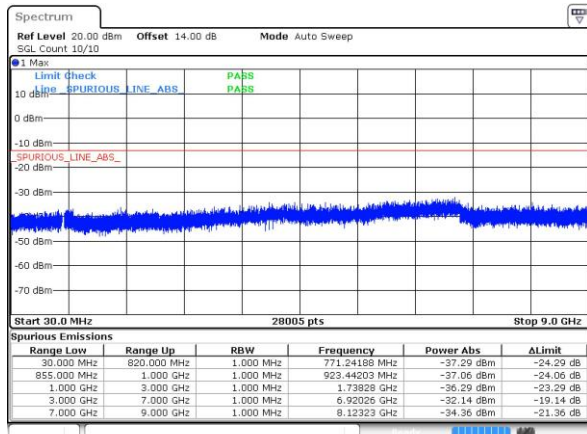
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



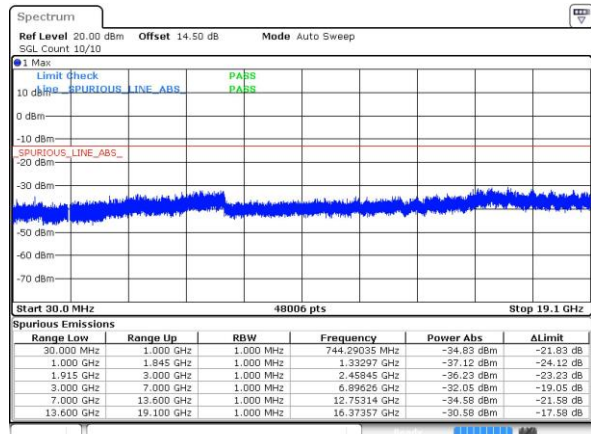
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Middle Channel



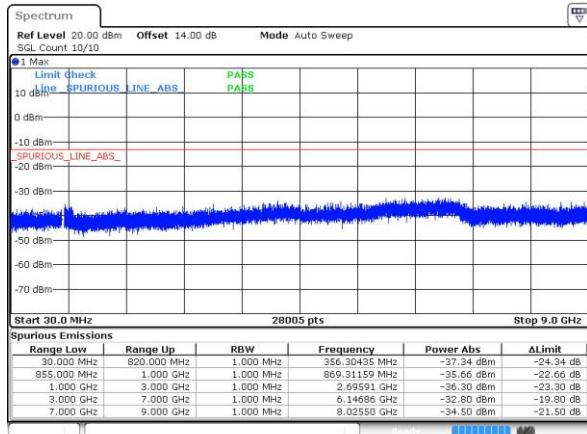
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Middle Channel



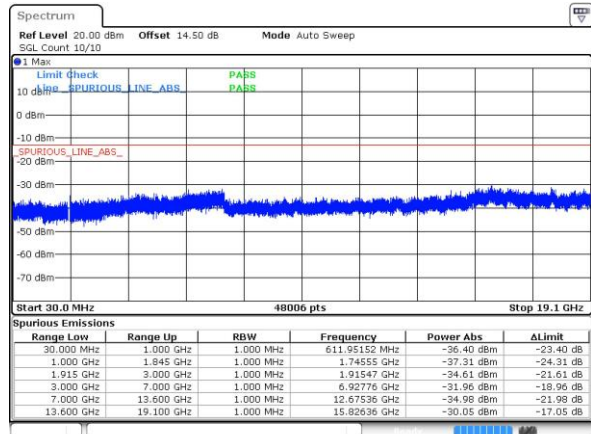
Date: 27 OCT 2024 15:46:45

Highest Channel



Date: 27 OCT 2024 16:34:34

Highest Channel

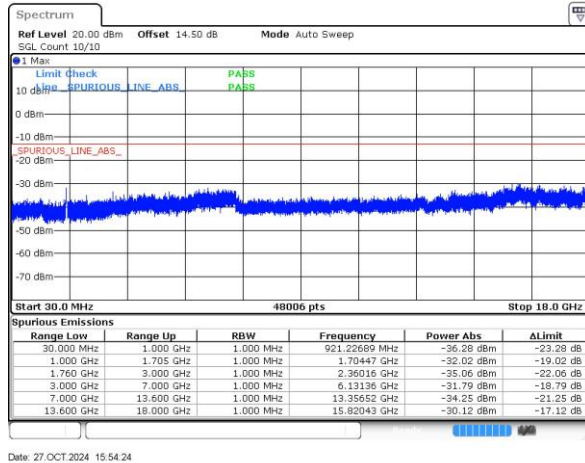


Date: 27 OCT 2024 15:48:21

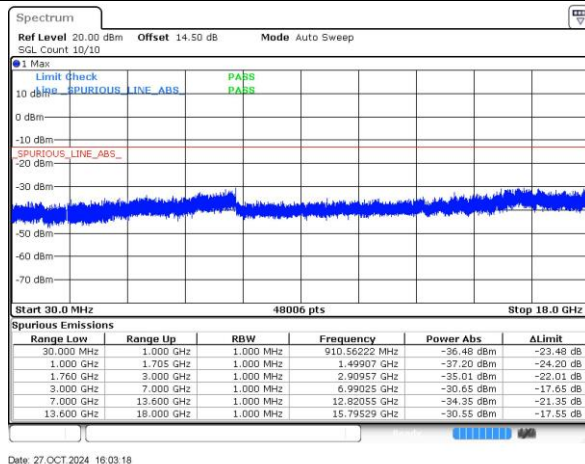


WCDMA Band IV (RMC 12.2Kbps)

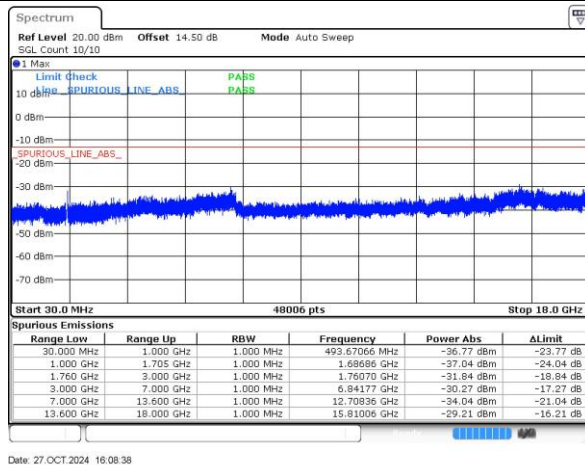
Lowest Channel



Middle Channel



Highest Channel



**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	0.0005	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage = 3.89V. ; Battery End Point (BEP) = 3.6 V.; Maximum Voltage =4.48 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	0.0002	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage = 3.89V. ; Battery End Point (BEP) = 3.6 V.; Maximum Voltage =4.48 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°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to test.

GSM850 (GSM) Ant.1									
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	1672.8	-46.19	-13	-33.19	-58.45	-49.44	4.00	9.40	H
	2509.2	-56.15	-13	-43.15	-75.65	-59.72	4.88	10.60	H
	3345.6	-54.89	-13	-41.89	-76.23	-59.82	5.52	12.60	H
	1672.8	-42.26	-13	-29.26	-55.23	-45.51	4.00	9.40	V
	2509.2	-55.22	-13	-42.22	-74.93	-58.79	4.88	10.60	V
	3345.6	-55.31	-13	-42.31	-76.95	-60.24	5.52	12.60	V

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

GSM850 (EDGE 1 Tx slots) Ant.1									
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	1672.8	-51.34	-13	-38.34	-63.60	-54.59	4.00	9.40	H
	2509.2	-55.90	-13	-42.90	-75.40	-59.47	4.88	10.60	H
	3345.6	-59.49	-13	-46.49	-80.83	-64.42	5.52	12.60	H
	1672.8	-46.36	-13	-33.36	-59.33	-49.61	4.00	9.40	V
	2509.2	-56.19	-13	-43.19	-75.90	-59.76	4.88	10.60	V
	3345.6	-58.96	-13	-45.96	-80.60	-63.89	5.52	12.60	V

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

GSM1900 (GSM) 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)
Middle	3760	-57.43	-13	-44.43	-79.92	-64.18	5.85	12.60	H
	5640	-56.90	-13	-43.90	-81.30	-62.70	7.30	13.10	H
	7520	-54.66	-13	-41.66	-81.54	-57.81	8.35	11.50	H
	3760	-54.77	-13	-41.77	-80.42	-61.52	5.85	12.60	V
	5640	-56.76	-13	-43.76	-81.31	-62.56	7.30	13.10	V
	7520	-54.79	-13	-41.79	-81.65	-57.94	8.35	11.50	V

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



GSM1900 (EDGE 1 Tx slots) 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)
Middle	3760	-57.97	-13	-44.97	-80.46	-64.72	5.85	12.60	H
	5640	-56.96	-13	-43.96	-81.36	-62.76	7.30	13.10	H
	7520	-54.61	-13	-41.61	-81.49	-57.76	8.35	11.50	H
	3760	-54.65	-13	-41.65	-80.3	-61.40	5.85	12.60	V
	5640	-56.58	-13	-43.58	-81.13	-62.38	7.30	13.10	V
	7520	-54.75	-13	-41.75	-81.61	-57.90	8.35	11.50	V

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

WCDMA Band V(RMC 12.2Kbps) Ant.1									
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	1672.8	-65.44	-13	-52.44	-77.70	-68.69	4.00	9.40	H
	2509.2	-60.49	-13	-47.49	-79.99	-64.06	4.88	10.60	H
	3345.6	-59.26	-13	-46.26	-80.60	-64.19	5.52	12.60	H
	1672.8	-64.64	-13	-51.64	-77.61	-67.89	4.00	9.40	V
	2509.2	-59.84	-13	-46.84	-79.55	-63.41	4.88	10.60	V
	3345.6	-59.03	-13	-46.03	-80.67	-63.96	5.52	12.60	V

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

WCDMA Band II(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)
Middle	3760	-57.79	-13	-44.79	-80.28	-64.54	5.85	12.60	H
	5640	-56.70	-13	-43.70	-81.10	-62.50	7.30	13.10	H
	7520	-54.54	-13	-41.54	-81.42	-57.69	8.35	11.50	H
	3760	-55.18	-13	-42.18	-80.83	-61.93	5.85	12.60	V
	5640	-56.36	-13	-43.36	-80.91	-62.16	7.30	13.10	V
	7520	-54.16	-13	-41.16	-81.02	-57.31	8.35	11.50	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)
Middle	3465.2	-59.03	-13	-46.03	-81.28	-65.78	5.85	12.60	H
	5197.8	-56.74	-13	-43.74	-81.59	-62.54	7.30	13.10	H
	6930.4	-55.22	-13	-42.22	-81.51	-58.37	8.35	11.50	H
	3465.2	-58.22	-13	-45.22	-80.27	-64.97	5.85	12.60	V
	5197.8	-56.39	-13	-43.39	-81.51	-62.19	7.30	13.10	V
	6930.4	-54.05	-13	-41.05	-81.26	-57.20	8.35	11.50	V

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