



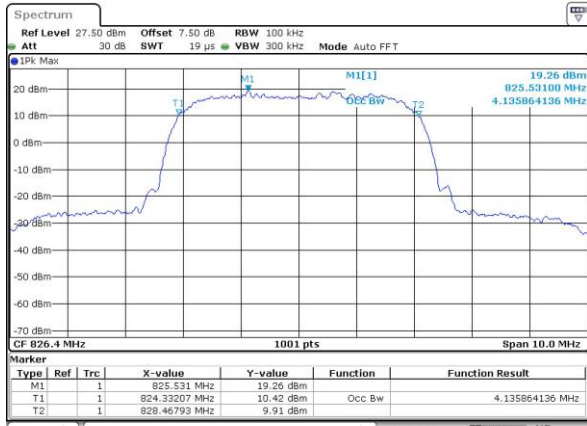
Occupied Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.15	4.14
Middle CH	4.14	4.15	4.15
Highest CH	4.12	4.15	4.15



WCDMA Band V (RMC 12.2Kbps)

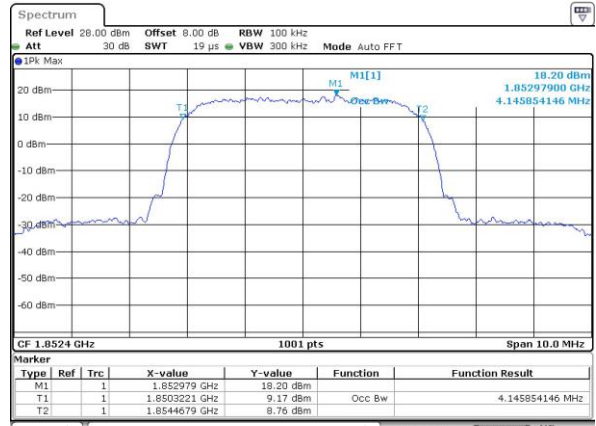
Lowest Channel



Date: 29.NOV.2023 13:55:17

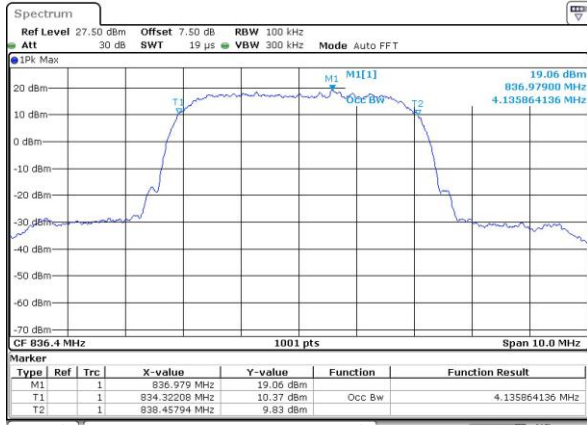
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



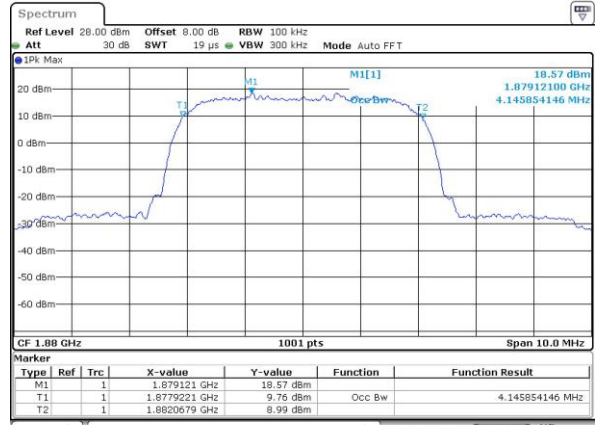
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Middle Channel



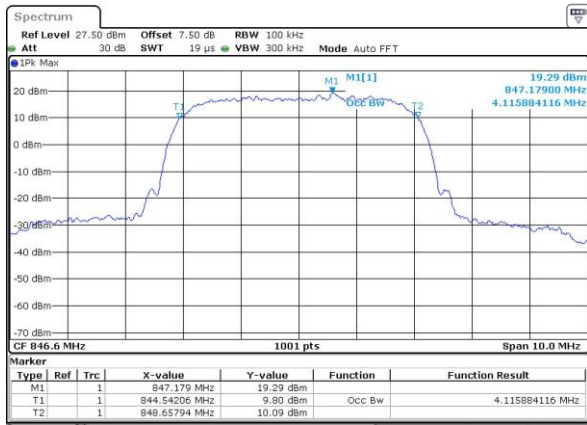
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Middle Channel



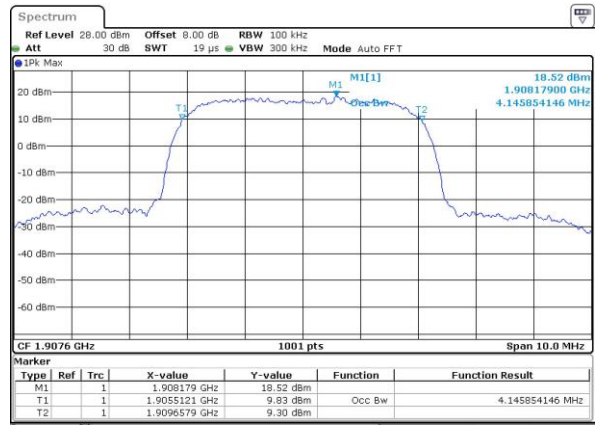
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Highest Channel

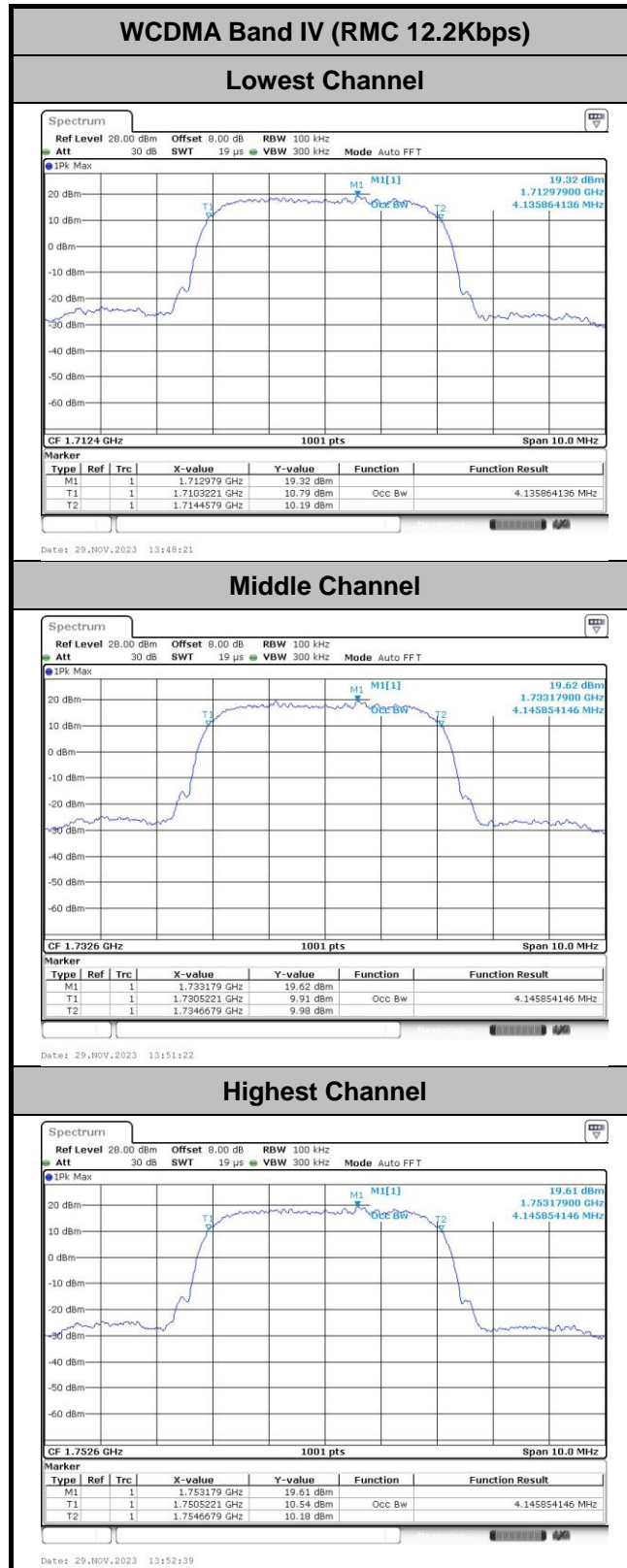


Date: 29.NOV.2023 13:59:18

Highest Channel

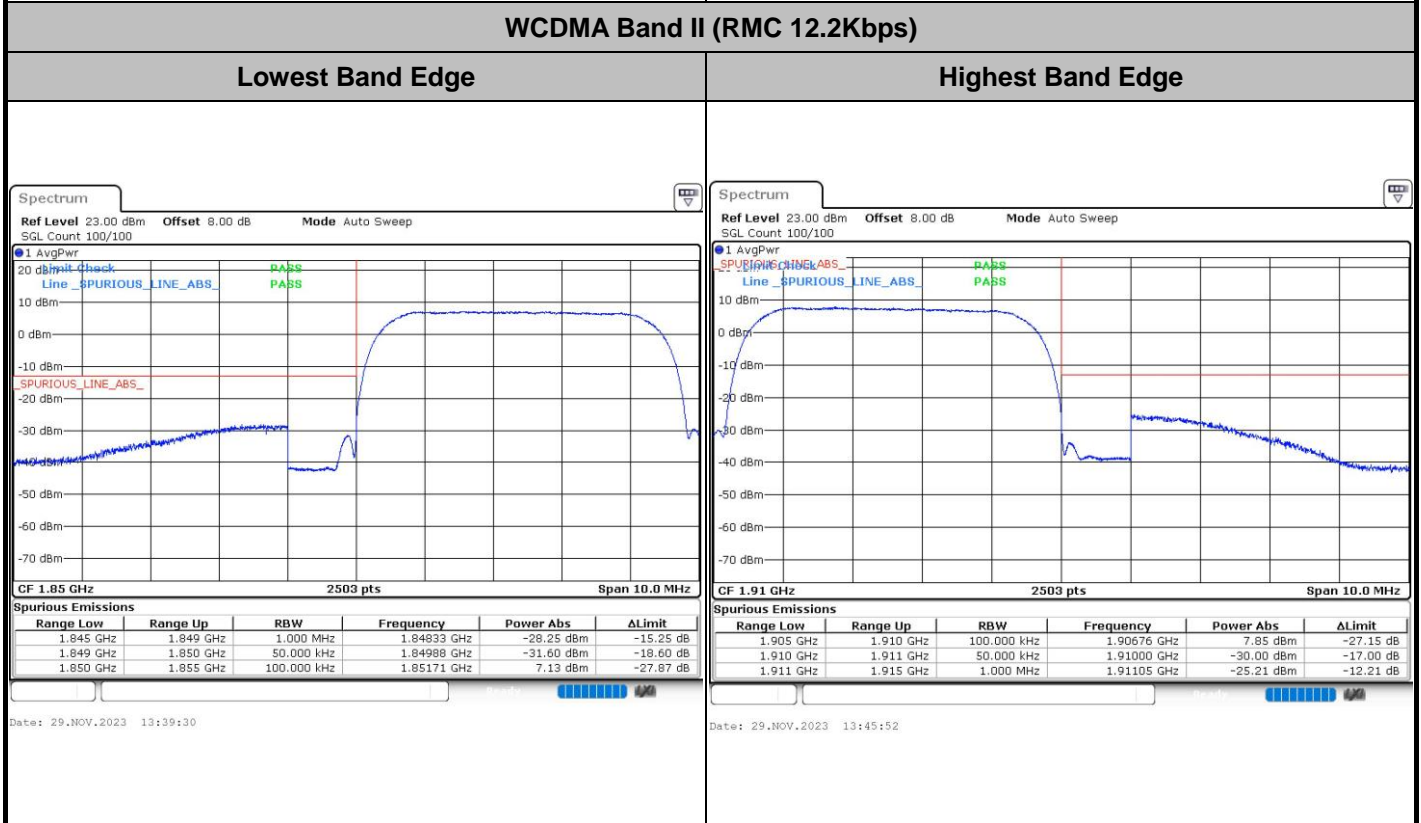
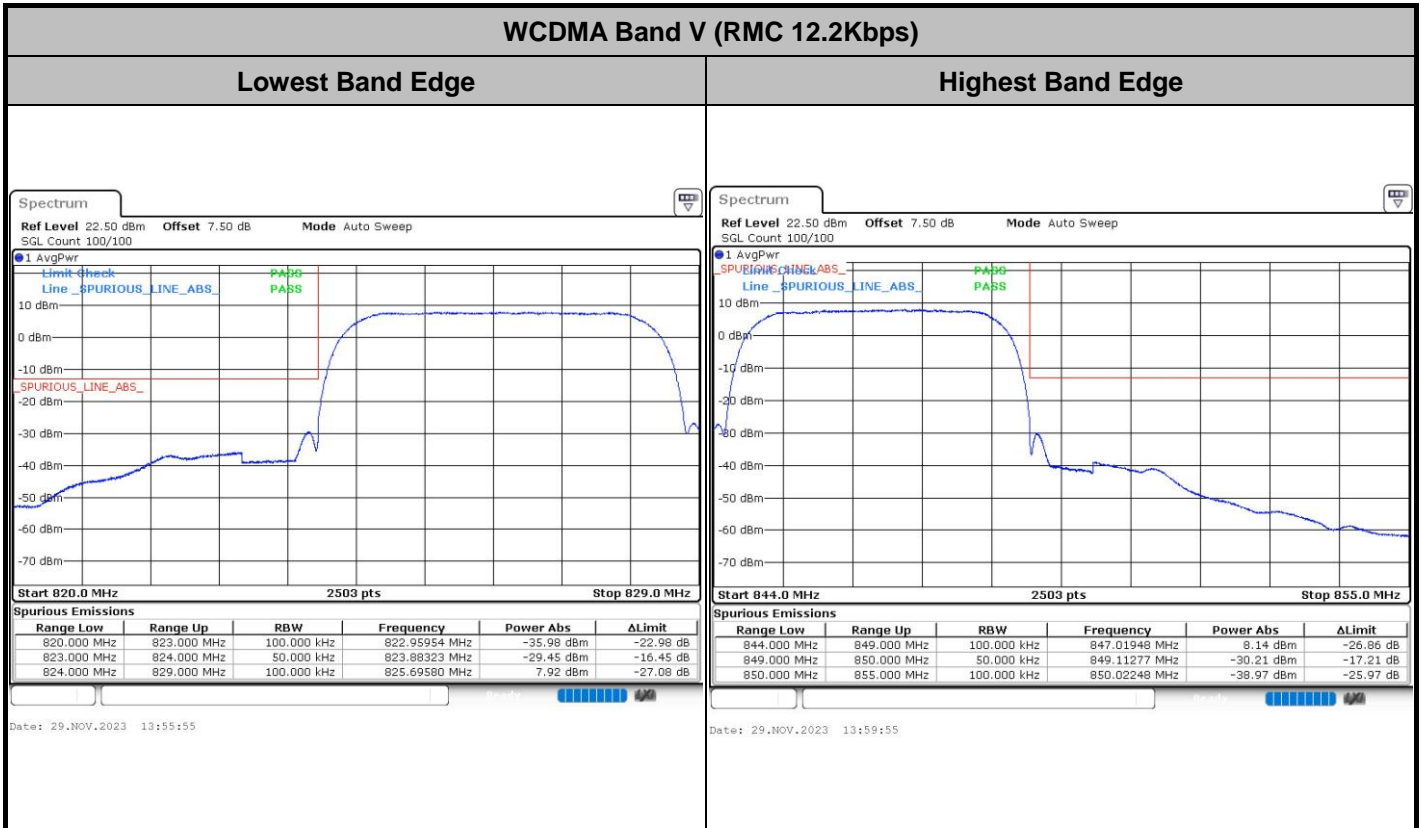


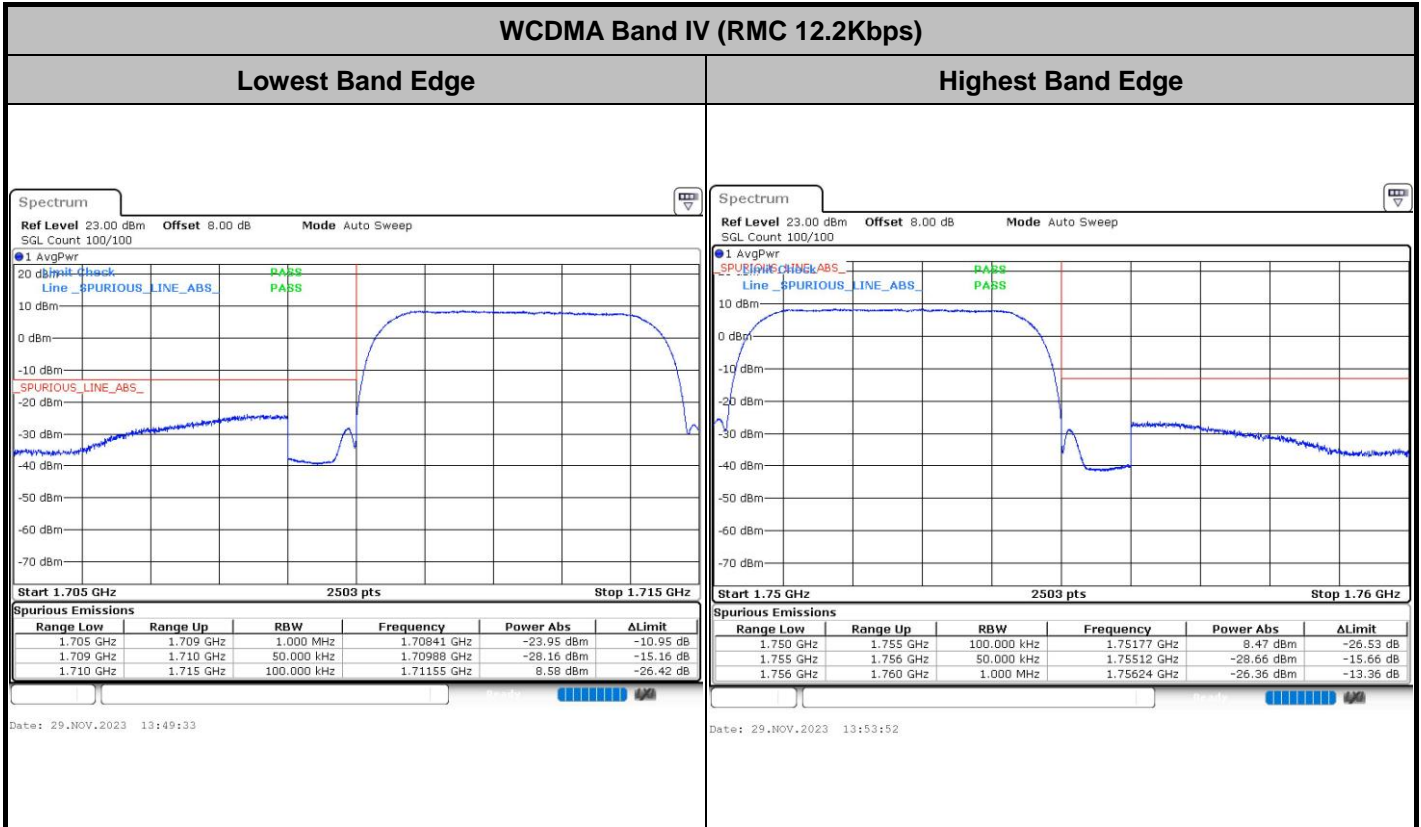
Date: 29.NOV.2023 13:43:25





Conducted Band Edge



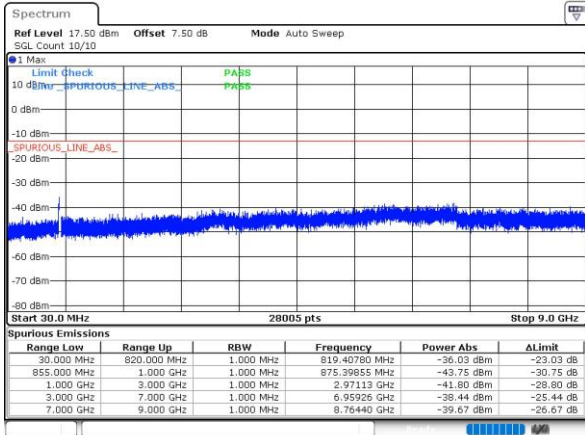




Conducted Spurious Emission

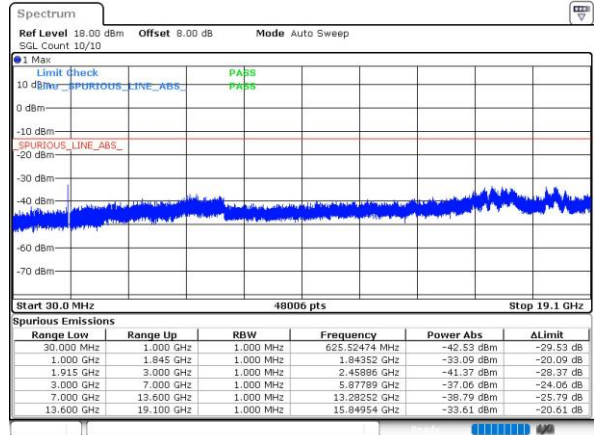
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

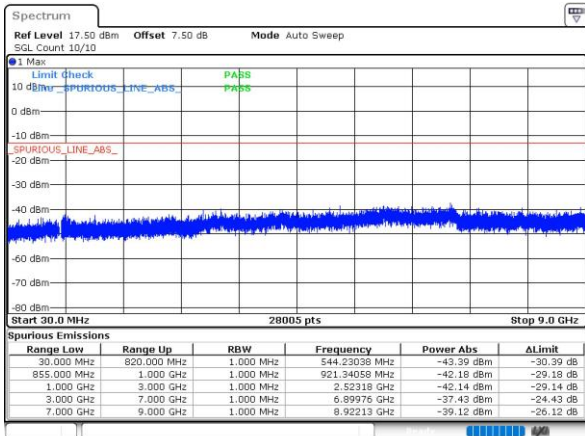


WCDMA Band II (RMC 12.2Kbps)

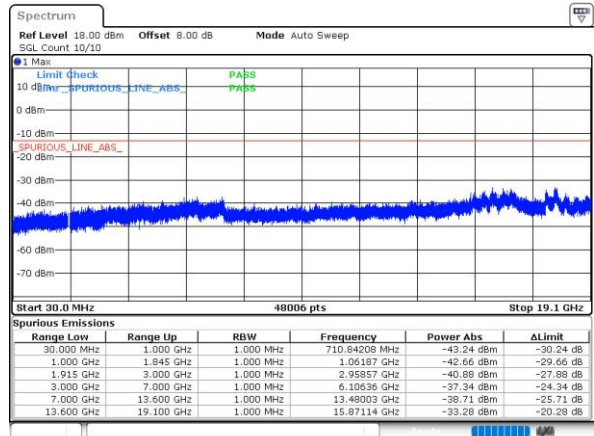
Lowest Channel



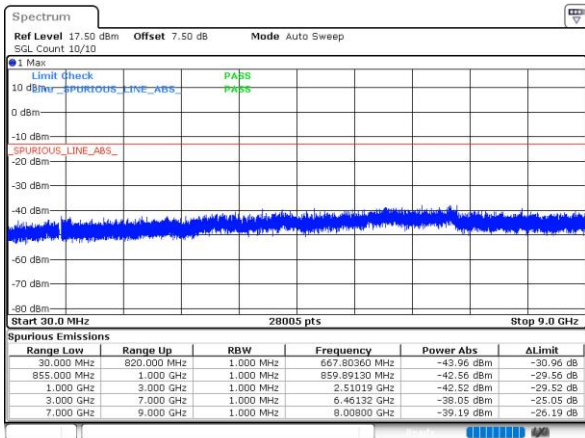
Middle Channel



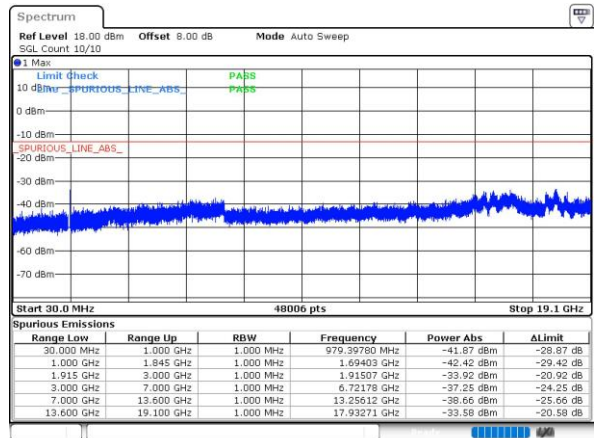
Middle Channel



Highest Channel



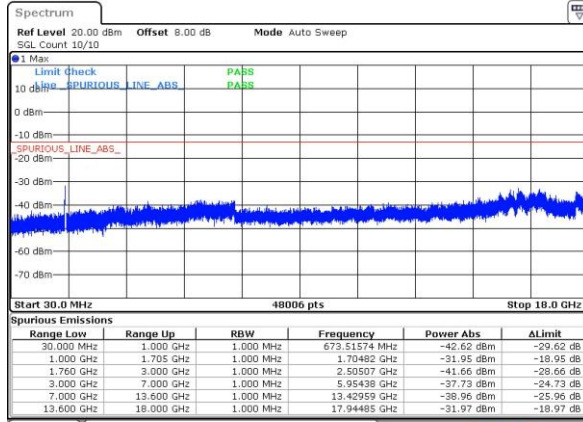
Highest Channel





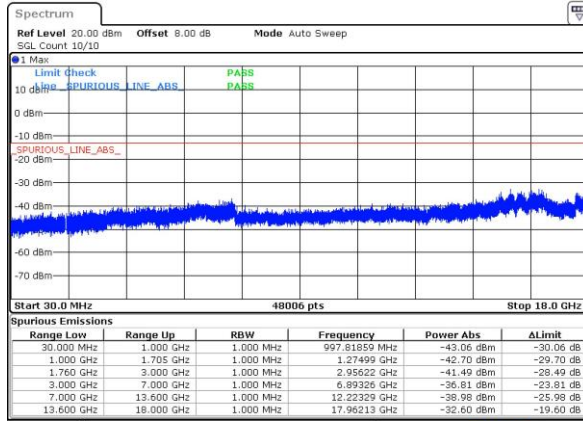
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



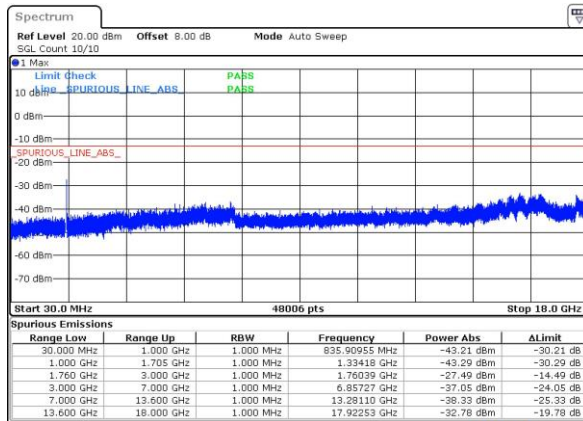
Date: 29.NOV.2023 13:50:17

Middle Channel



Date: 29.NOV.2023 13:51:04

Highest Channel



Date: 29.NOV.2023 13:52:56



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	0.0289	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0270	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0218	
-20	Normal Voltage	0.0039	
-30	Normal Voltage	0.0253	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0263	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0028	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0125	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0145	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0171	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit
		Deviation (ppm)	Note 2. Result
Temperature (°C)	Voltage (Volt)		
50	Normal Voltage	0.0020	PASS
40	Normal Voltage	0.0106	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0050	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0158	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0174	

Note:

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 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 :	HuaCong Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

RSE pretest all the support Antennas, only the worst results are shown in the report.

GSM850 (GSM) / 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)
Middle	1672.8	-60.16	-13	-47.16	-72.42	-63.41	4.00	9.40	H
	2509.2	-49.17	-13	-36.17	-68.67	-52.74	4.88	10.60	H
	3345.6	-56.64	-13	-43.64	-77.98	-61.57	5.52	12.60	H
	1672.8	-62.63	-13	-49.63	-75.60	-65.88	4.00	9.40	V
	2509.2	-52.79	-13	-39.79	-72.50	-56.36	4.88	10.60	V
	3345.6	-56.37	-13	-43.37	-78.01	-61.30	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.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)
Middle	1672.8	-58.24	-13	-45.24	-70.50	-61.49	4.00	9.40	H
	2509.2	-54.82	-13	-41.82	-74.32	-58.39	4.88	10.60	H
	3345.6	-56.73	-13	-43.73	-78.07	-61.66	5.52	12.60	H
	1672.8	-61.51	-13	-48.51	-74.48	-64.76	4.00	9.40	V
	2509.2	-54.45	-13	-41.45	-74.16	-58.02	4.88	10.60	V
	3345.6	-56.67	-13	-43.67	-78.31	-61.60	5.52	12.60	V

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

GSM1900 (GSM) / Ant.3									
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	-56.46	-13	-43.46	-78.95	-63.21	5.85	12.60	H
	5640	-54.56	-13	-41.56	-78.96	-60.36	7.30	13.10	H
	7520	-53.71	-13	-40.71	-80.59	-56.86	8.35	11.50	H
	3760	-53.74	-13	-40.74	-79.39	-60.49	5.85	12.60	V
	5640	-53.83	-13	-40.83	-78.38	-59.63	7.30	13.10	V
	7520	-53.82	-13	-40.82	-80.68	-56.97	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.3									
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	-56.41	-13	-43.41	-78.90	-63.16	5.85	12.60	H
	5640	-55.87	-13	-42.87	-80.27	-61.67	7.30	13.10	H
	7520	-53.96	-13	-40.96	-80.84	-57.11	8.35	11.50	H
	3760	-53.40	-13	-40.40	-79.05	-60.15	5.85	12.60	V
	5640	-55.73	-13	-42.73	-80.28	-61.53	7.30	13.10	V
	7520	-54.09	-13	-41.09	-80.95	-57.24	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.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)
Middle	1672.8	-62.84	-13	-49.84	-75.10	-66.09	4.00	9.40	H
	2509.2	-57.72	-13	-44.72	-77.22	-61.29	4.88	10.60	H
	3345.6	-56.87	-13	-43.87	-78.21	-61.80	5.52	12.60	H
	1672.8	-62.92	-13	-49.92	-75.89	-66.17	4.00	9.40	V
	2509.2	-57.55	-13	-44.55	-77.26	-61.12	4.88	10.60	V
	3345.6	-56.37	-13	-43.37	-78.01	-61.30	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.3									
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	-56.49	-13	-43.49	-78.98	-63.24	5.85	12.60	H
	5640	-56.02	-13	-43.02	-80.42	-61.82	7.30	13.10	H
	7520	-54.07	-13	-41.07	-80.95	-57.22	8.35	11.50	H
	3760	-53.67	-13	-40.67	-79.32	-60.42	5.85	12.60	V
	5640	-55.65	-13	-42.65	-80.2	-61.45	7.30	13.10	V
	7520	-53.97	-13	-40.97	-80.83	-57.12	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.3									
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	-55.25	-13	-42.25	-77.50	-62.10	5.65	12.50	H
	5197.8	-55.24	-13	-42.24	-80.09	-60.91	7.13	12.80	H
	6930.4	-54.87	-13	-41.87	-81.16	-58.27	8.40	11.80	H
	3465.2	-55.78	-13	-42.78	-77.83	-62.63	5.65	12.50	V
	5197.8	-55.33	-13	-42.33	-80.45	-61.00	7.13	12.80	V
	6930.4	-54.07	-13	-41.07	-81.28	-57.47	8.40	11.80	V

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