

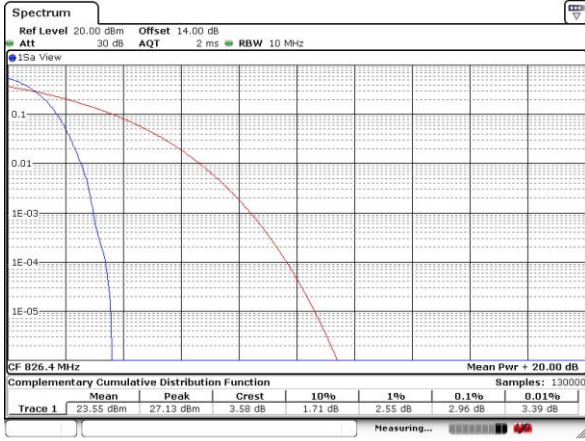


WCDMA Band V (RMC 12.2Kbps)

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

Lowest Channel

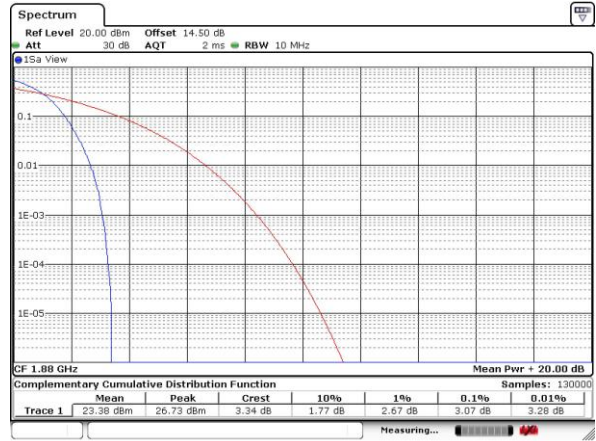
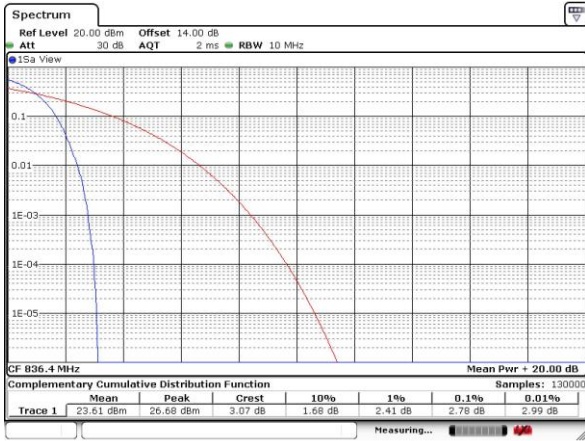


Date: 8.AUG.2023 17:03:22

Date: 8.AUG.2023 15:52:35

Middle Channel

Middle Channel

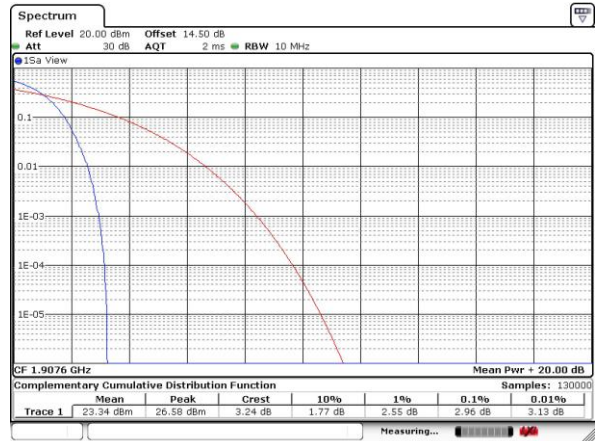
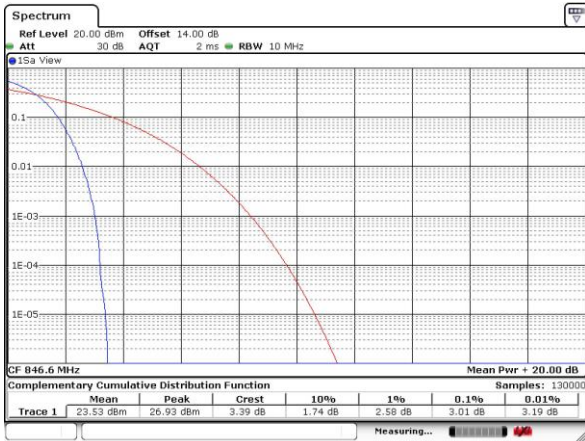


Date: 8.AUG.2023 17:05:45

Date: 8.AUG.2023 15:56:48

Highest Channel

Highest Channel



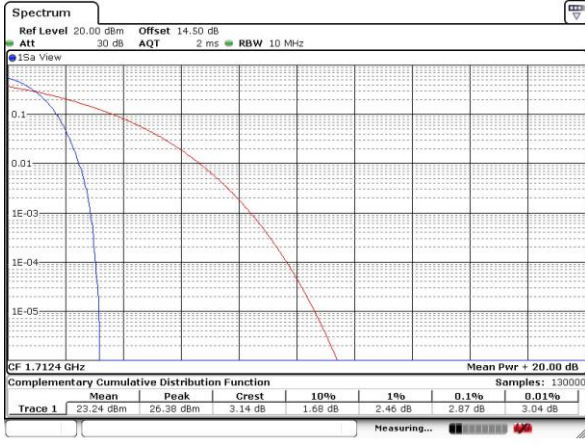
Date: 8.AUG.2023 17:10:03

Date: 8.AUG.2023 15:59:55



WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



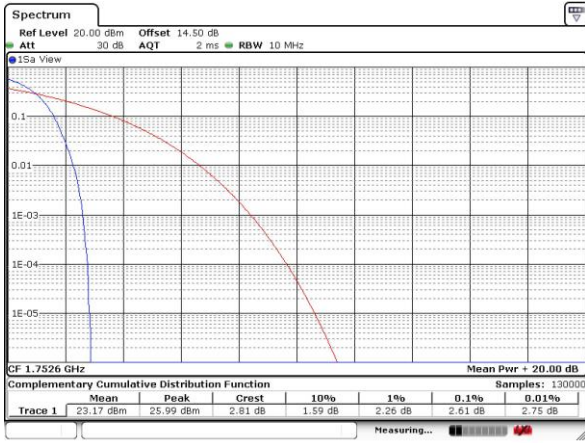
Date: 8.AUG.2023 16:03:55

Middle Channel



Date: 8.AUG.2023 16:13:47

Highest Channel



Date: 8.AUG.2023 16:17:03



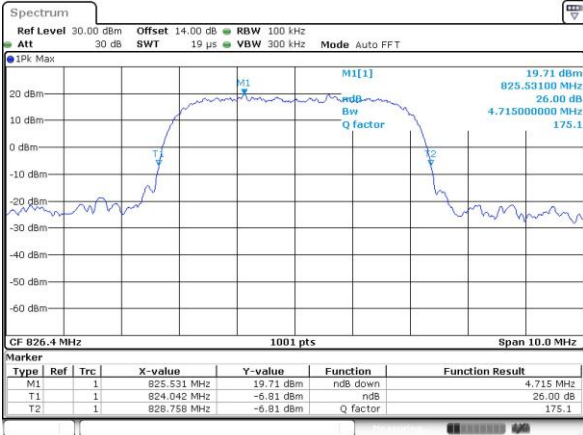
26dB Bandwidth

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	4.72	4.70	4.72
Middle CH	4.72	4.70	4.71
Highest CH	4.70	4.69	4.73



WCDMA Band V (RMC 12.2Kbps)

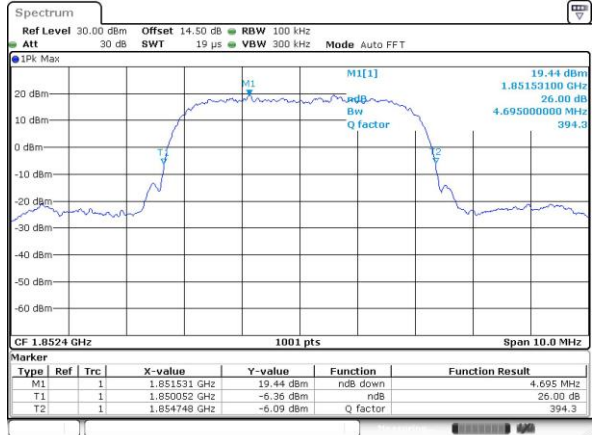
Lowest Channel



Date: 8_AUG.2023 17:01:10

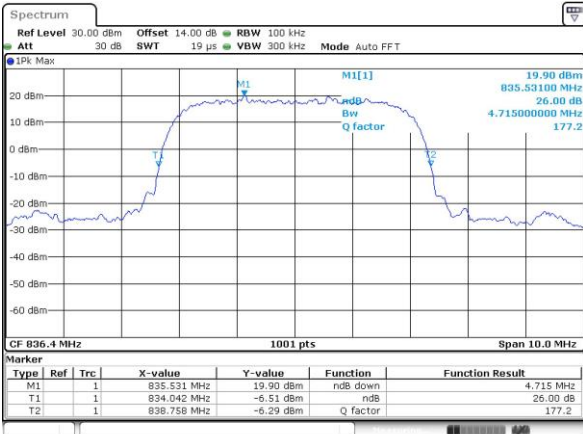
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



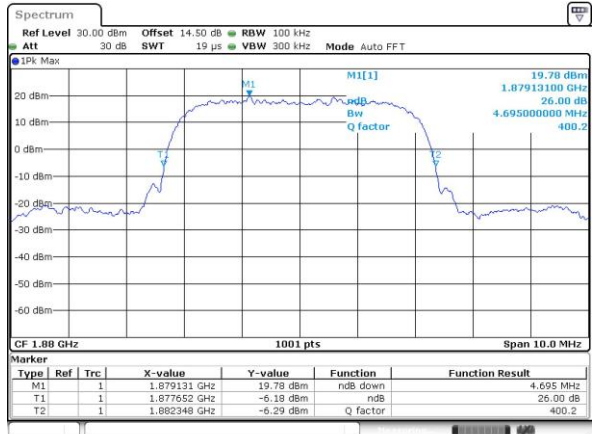
Date: 8_AUG.2023 15:50:06

Middle Channel



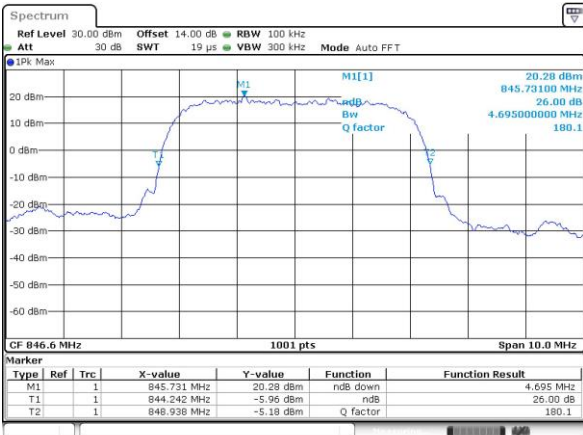
Date: 8_AUG.2023 17:04:01

Middle Channel



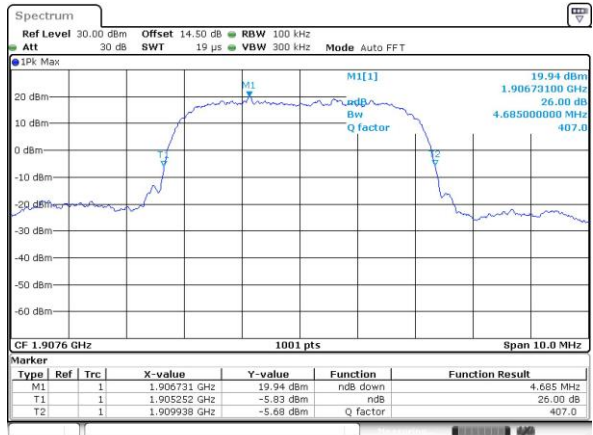
Date: 8_AUG.2023 15:53:11

Highest Channel



Date: 8_AUG.2023 17:06:21

Highest Channel

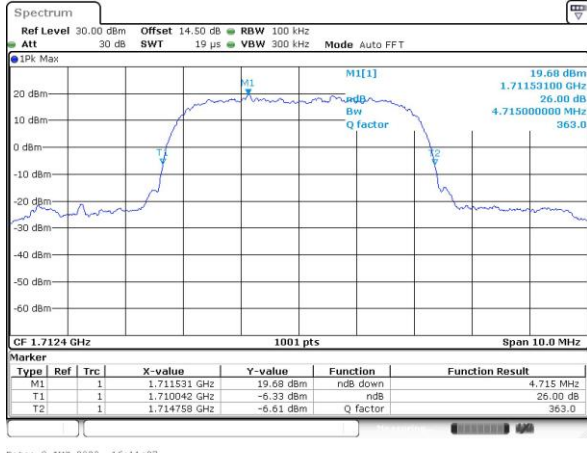


Date: 8_AUG.2023 15:57:27



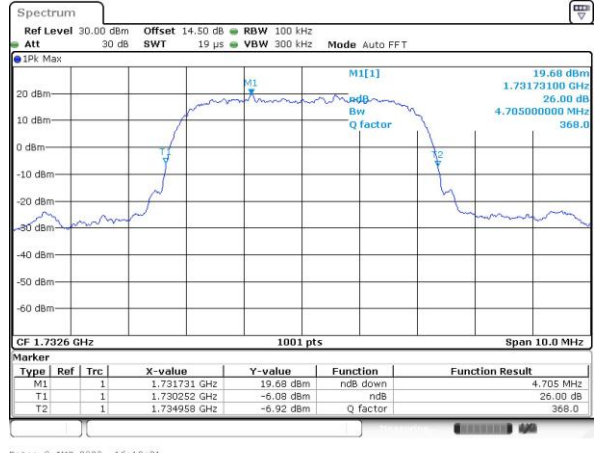
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



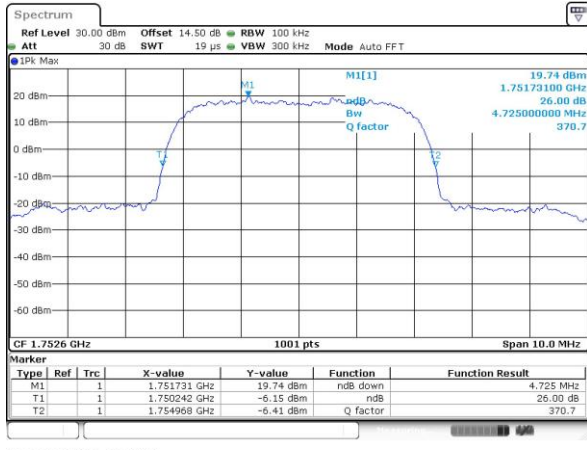
Date: 8.AUG.2023 16:11:27

Middle Channel



Date: 8.AUG.2023 16:12:21

Highest Channel



Date: 8.AUG.2023 16:14:31



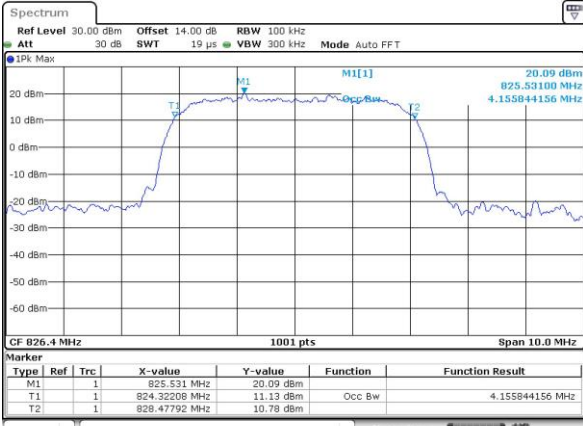
Occupied Bandwidth

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	4.16	4.16	4.15
Middle CH	4.16	4.17	4.16
Highest CH	4.15	4.17	4.17



WCDMA Band V (RMC 12.2Kbps)

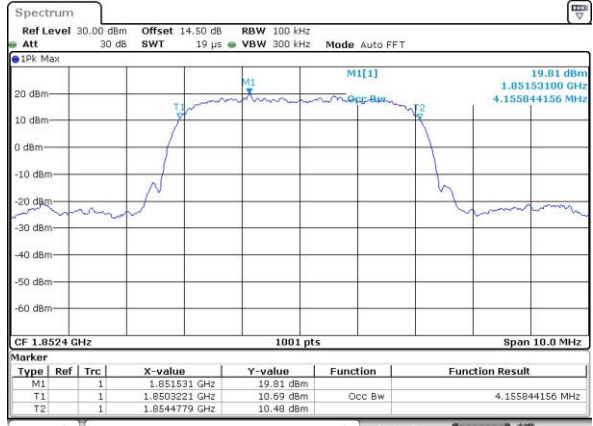
Lowest Channel



Date: 8_AUG.2023 17:04:43

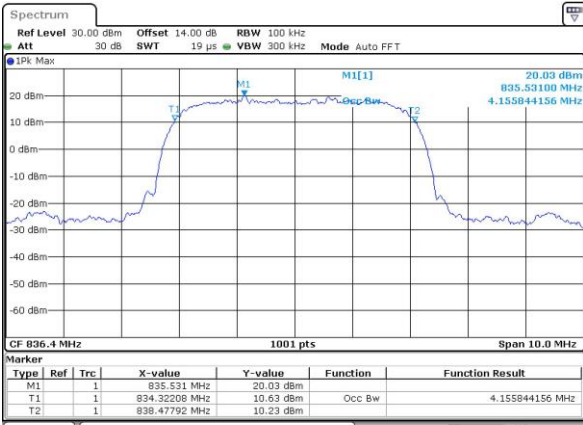
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



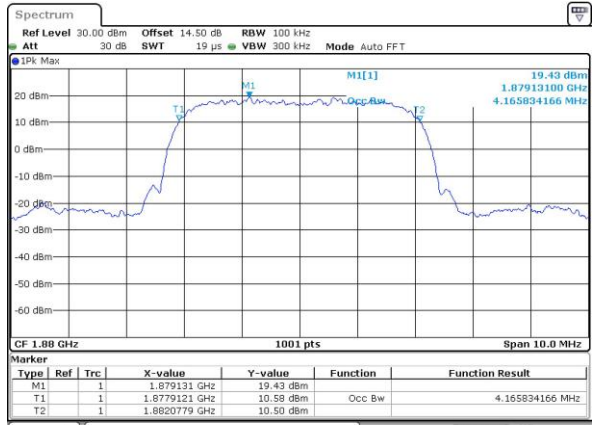
Date: 8_AUG.2023 15:50:51

Middle Channel



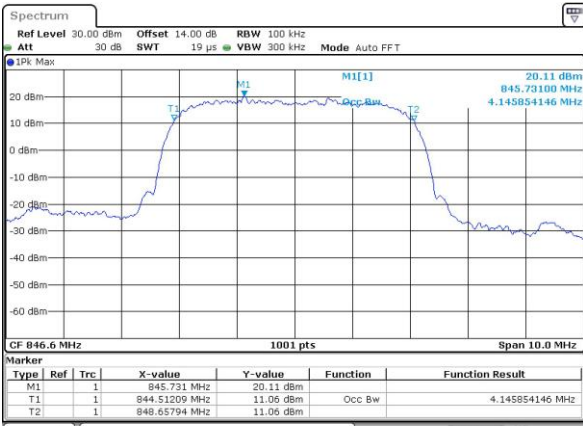
Date: 8_AUG.2023 17:04:38

Middle Channel



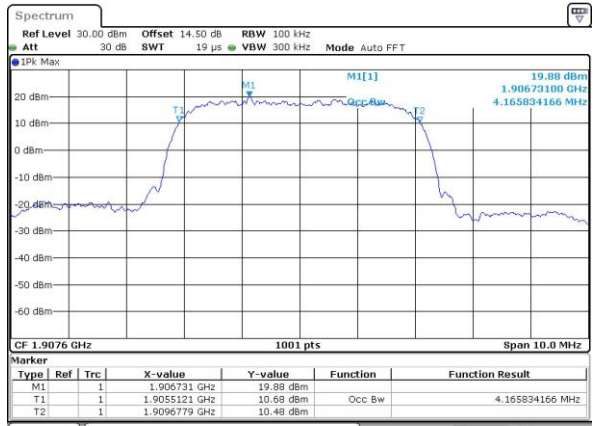
Date: 8_AUG.2023 15:53:38

Highest Channel



Date: 8_AUG.2023 17:08:03

Highest Channel

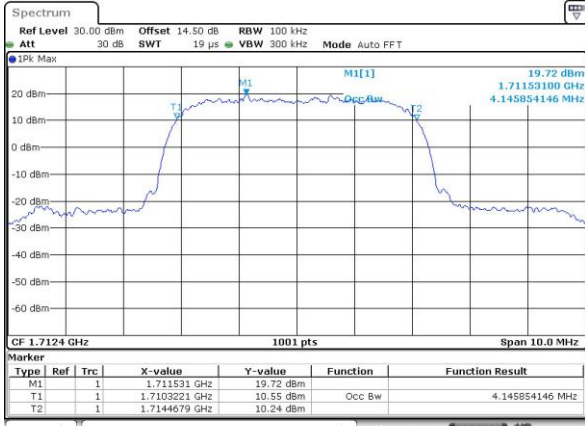


Date: 8_AUG.2023 15:58:09



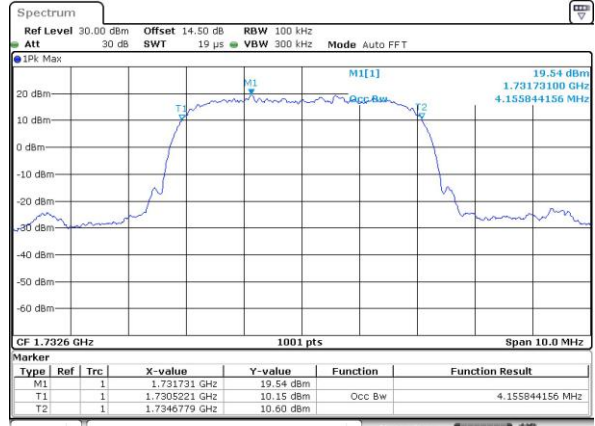
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



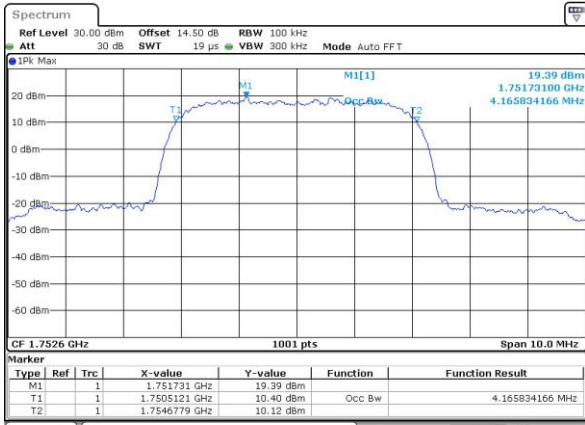
Date: 8.AUG.2023 16:01:49

Middle Channel



Date: 8.AUG.2023 16:13:33

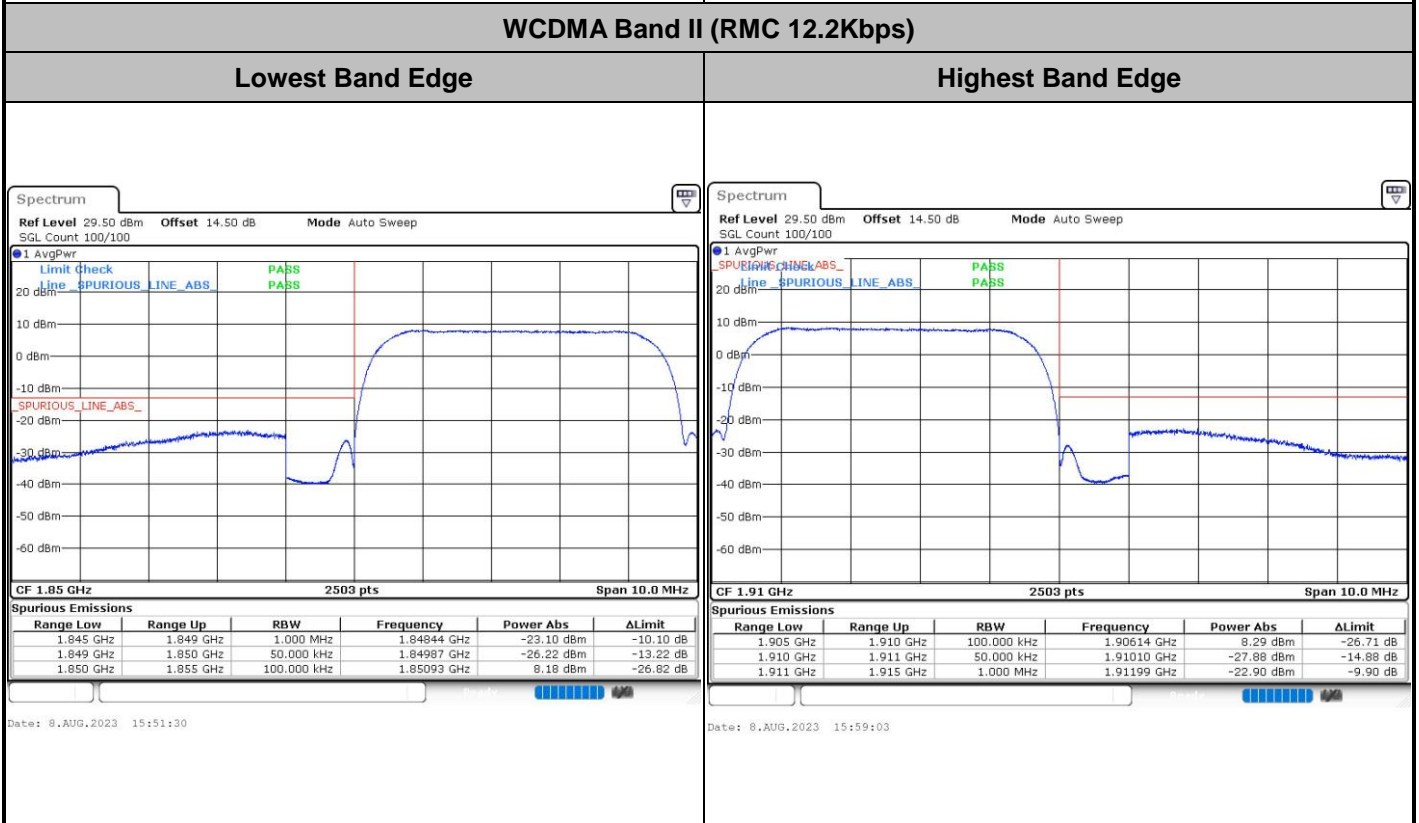
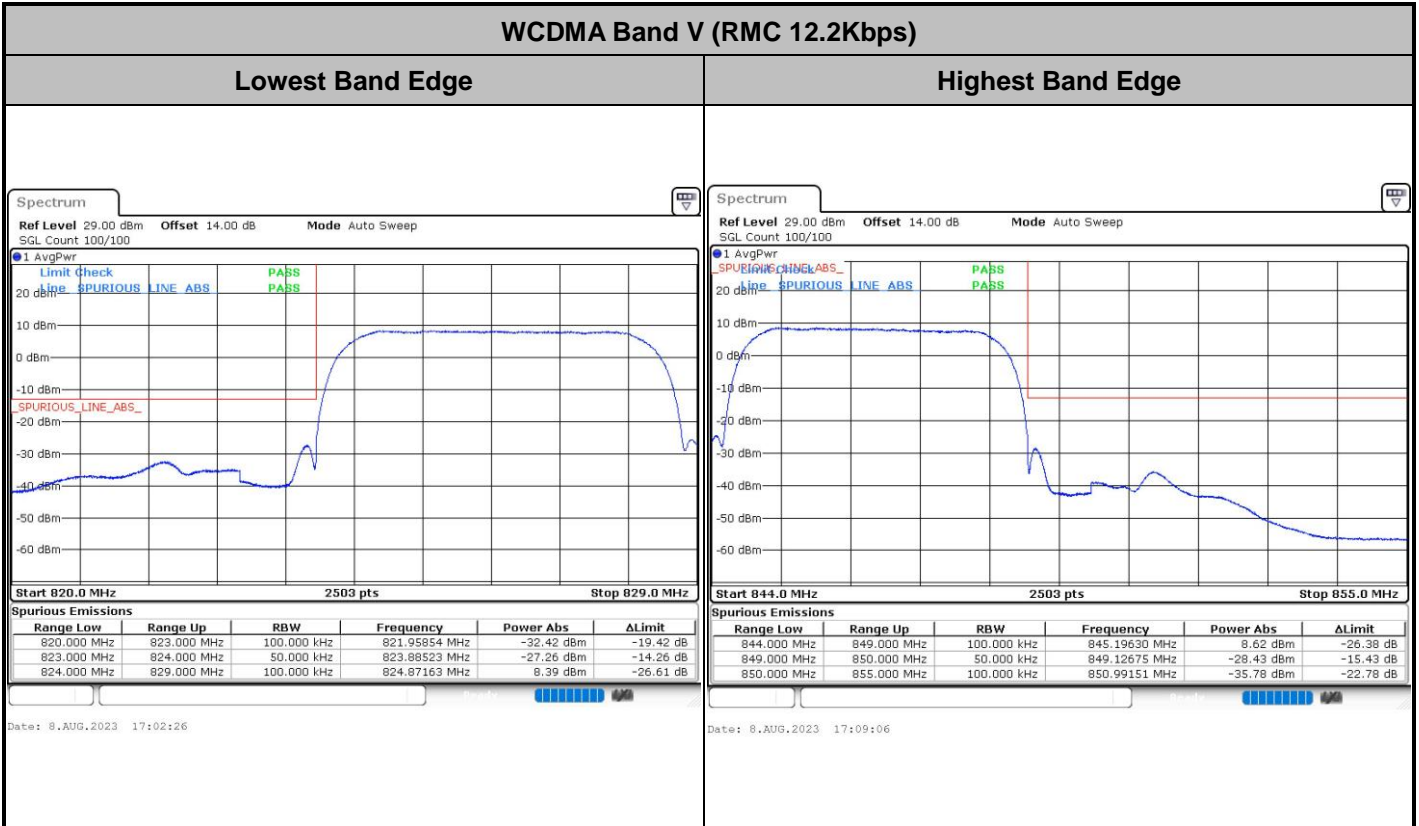
Highest Channel



Date: 8.AUG.2023 16:15:27



Conducted Band Edge

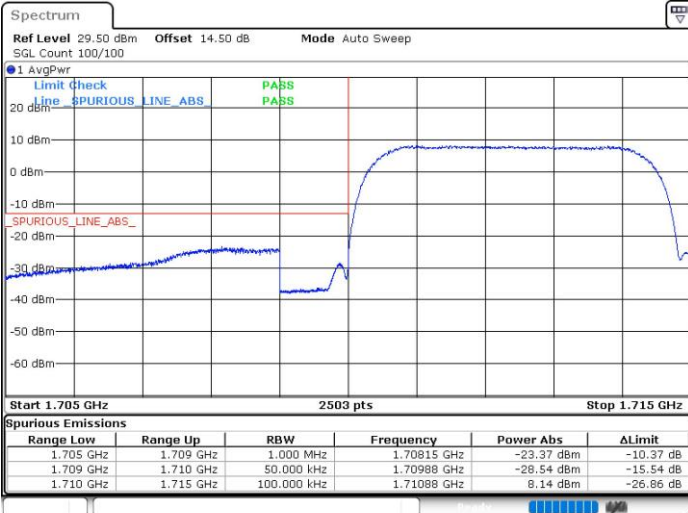




WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge

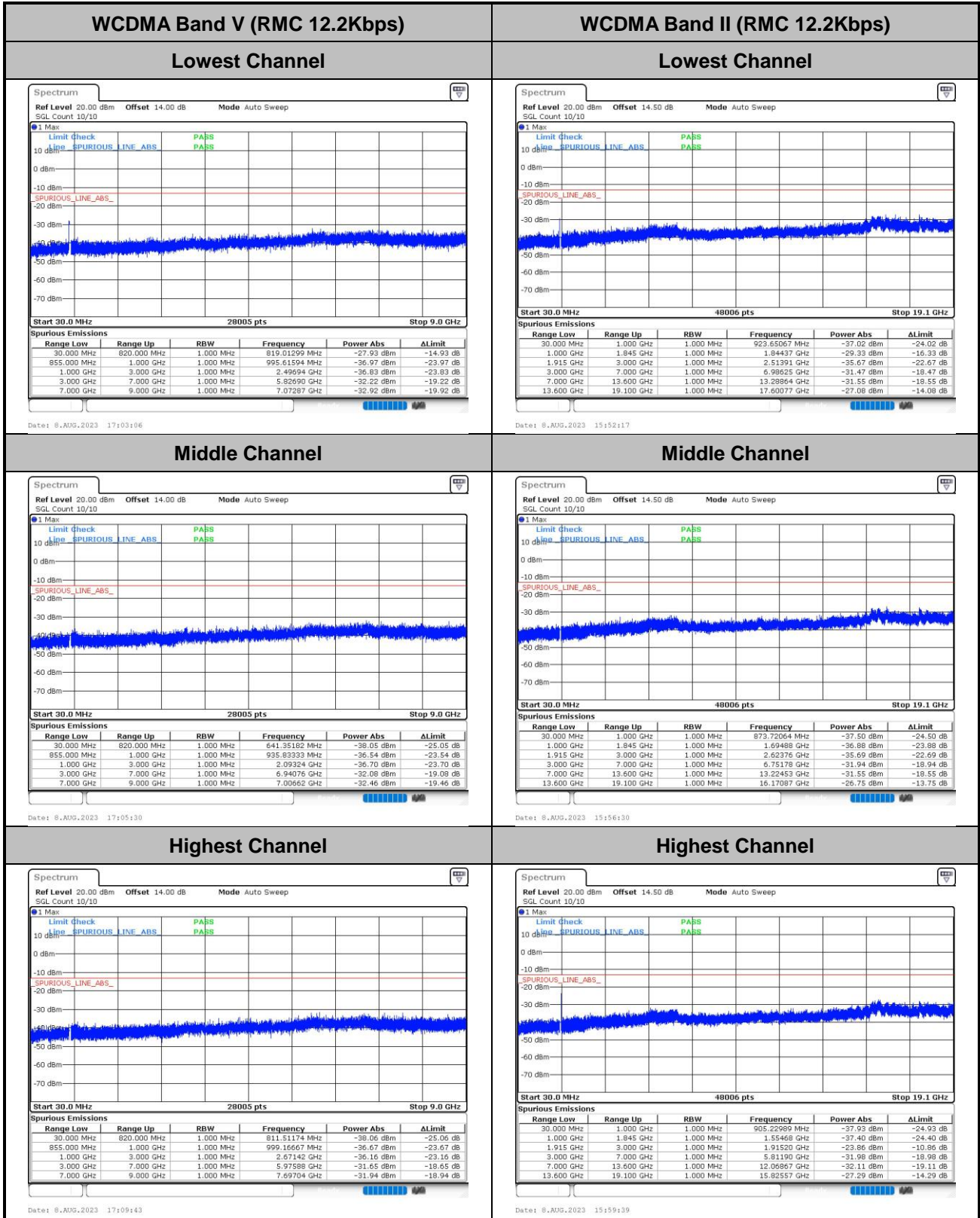


Date: 8.AUG.2023 16:02:45

Date: 8.AUG.2023 16:16:15



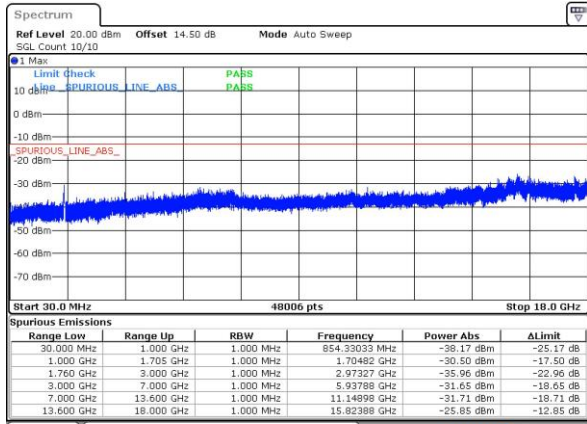
Conducted Spurious Emission





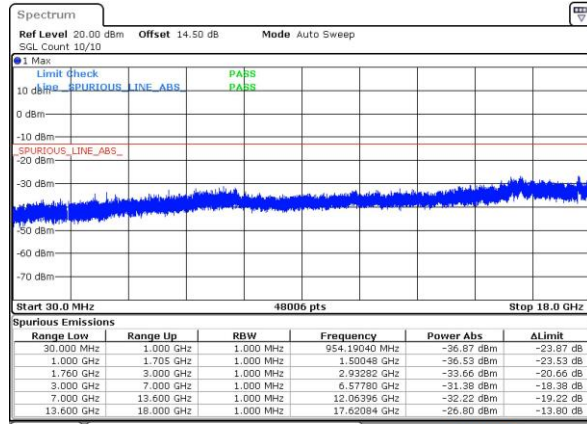
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



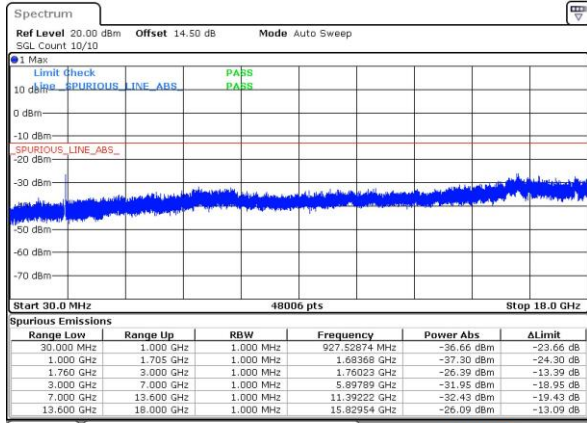
Date: 8.AUG.2023 16:03:33

Middle Channel



Date: 8.AUG.2023 16:13:08

Highest Channel



Date: 8.AUG.2023 16:16:50



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	0.0005	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	0.0001	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

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 :	Kuang Jia	Temperature :	22~25°C
		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.

GSM850 (GSM) / Ant.13									
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	-61.77	-13	-48.77	-69.02	-65.02	4.00	9.40	H
	2509.2	-57.20	-13	-44.20	-68.67	-60.77	4.88	10.60	H
	3345.6	-61.55	-13	-48.55	-75.67	-66.48	5.52	12.60	H
	1672.8	-53.40	-13	-40.40	-60.84	-56.65	4.00	9.40	V
	2509.2	-56.83	-13	-43.83	-68.42	-60.40	4.88	10.60	V
	3345.6	-59.49	-13	-46.49	-73.63	-64.42	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.13									
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	-60.00	-13	-47.00	-67.51	-63.25	4.00	9.40	H
	2509.2	-56.49	-13	-43.49	-68.77	-60.06	4.88	10.60	H
	3345.6	-61.37	-13	-48.37	-76.45	-66.30	5.52	12.60	H
	1672.8	-54.35	-13	-41.35	-62.05	-57.60	4.00	9.40	V
	2509.2	-55.92	-13	-42.92	-68.32	-59.49	4.88	10.60	V
	3345.6	-58.34	-13	-45.34	-73.44	-63.27	5.52	12.60	V

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

GSM1900 (GSM) / Ant.13									
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	-60.57	-13	-47.57	-77.26	-67.32	5.85	12.60	H
	5640	-50.29	-13	-37.29	-71.13	-56.09	7.30	13.10	H
	7520	-53.39	-13	-40.39	-77.73	-56.54	8.35	11.50	H
	3760	-58.77	-13	-45.77	-75.02	-65.52	5.85	12.60	V
	5640	-58.64	-13	-45.64	-78.27	-64.44	7.30	13.10	V
	7520	-53.01	-13	-40.01	-77.77	-56.16	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.13									
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	-61.00	-13	-48.00	-77.69	-67.75	5.85	12.60	H
	5640	-55.56	-13	-42.56	-76.40	-61.36	7.30	13.10	H
	7520	-54.60	-13	-41.60	-78.94	-57.75	8.35	11.50	H
	3760	-61.72	-13	-48.72	-77.97	-68.47	5.85	12.60	V
	5640	-54.27	-13	-41.27	-73.9	-60.07	7.30	13.10	V
	7520	-54.31	-13	-41.31	-79.07	-57.46	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.13									
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	-67.77	-13	-54.77	-75.28	-71.02	4.00	9.40	H
	2509.2	-64.46	-13	-51.46	-76.74	-68.03	4.88	10.60	H
	3345.6	-62.90	-13	-49.90	-77.98	-67.83	5.52	12.60	H
	1672.8	-67.24	-13	-54.24	-74.94	-70.49	4.00	9.40	V
	2509.2	-64.08	-13	-51.08	-76.48	-67.65	4.88	10.60	V
	3345.6	-62.70	-13	-49.70	-77.80	-67.63	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.13									
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	-62.75	-13	-49.75	-79.44	-69.50	5.85	12.60	H
	5640	-60.51	-13	-47.51	-81.35	-66.31	7.30	13.10	H
	7520	-57.06	-13	-44.06	-81.40	-60.21	8.35	11.50	H
	3760	-63.12	-13	-50.12	-79.37	-69.87	5.85	12.60	V
	5640	-61.51	-13	-48.51	-81.14	-67.31	7.30	13.10	V
	7520	-56.65	-13	-43.65	-81.41	-59.80	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.13									
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	-59.48	-13	-46.48	-74.79	-66.33	5.65	12.50	H
	5197.8	-61.51	-13	-48.51	-81.37	-67.18	7.13	12.80	H
	6930.4	-58.27	-13	-45.27	-81.28	-61.67	8.40	11.80	H
	3465.2	-62.50	-13	-49.50	-77.84	-69.35	5.65	12.50	V
	5197.8	-62.04	-13	-49.04	-81.52	-67.71	7.13	12.80	V
	6930.4	-57.63	-13	-44.63	-80.93	-61.03	8.40	11.80	V

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