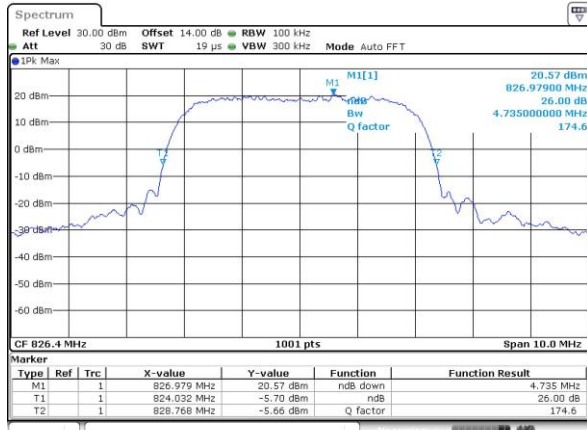




WCDMA Band V (RMC 12.2Kbps)

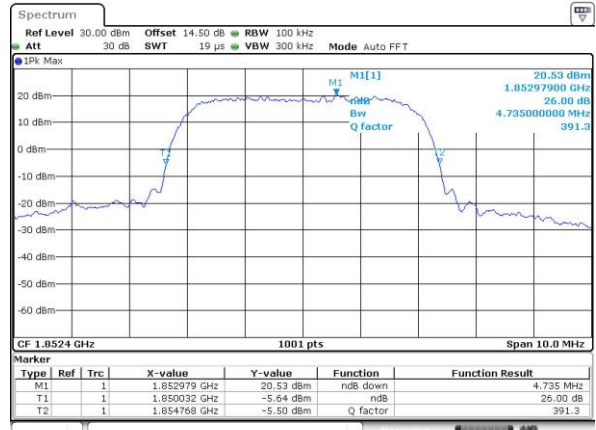
Lowest Channel



Date: 26.MAR.2022 15:48:00

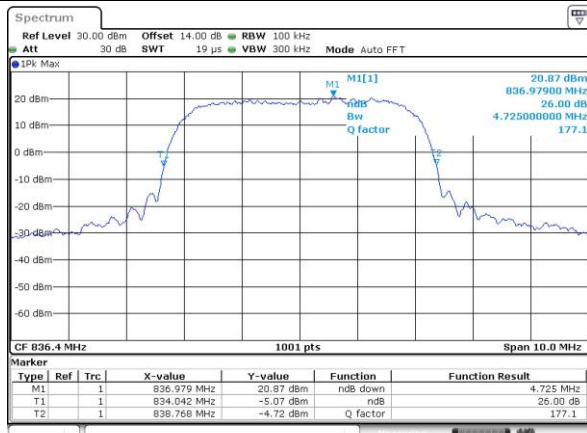
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



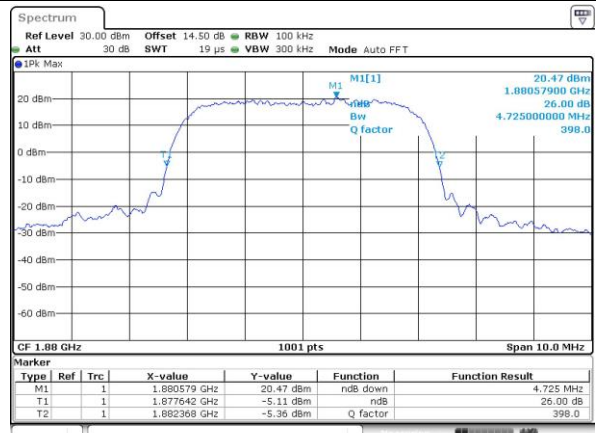
Date: 26.MAR.2022 15:12:41

Middle Channel



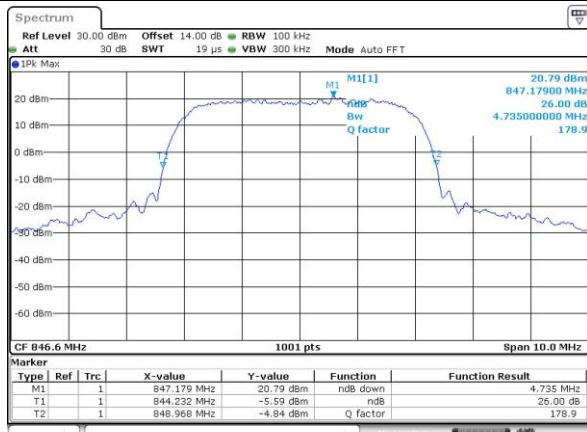
Date: 26.MAR.2022 15:48:26

Middle Channel



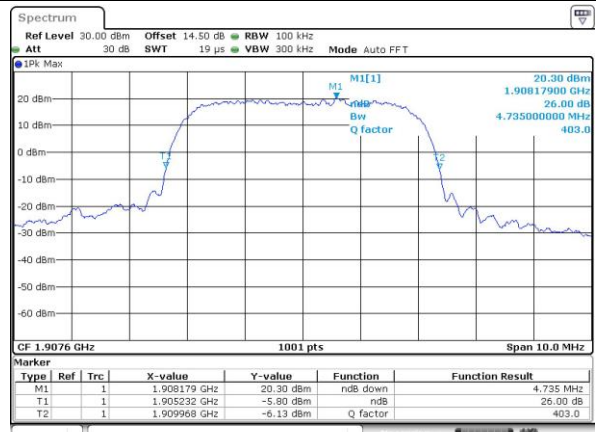
Date: 26.MAR.2022 15:12:22

Highest Channel



Date: 26.MAR.2022 15:48:50

Highest Channel

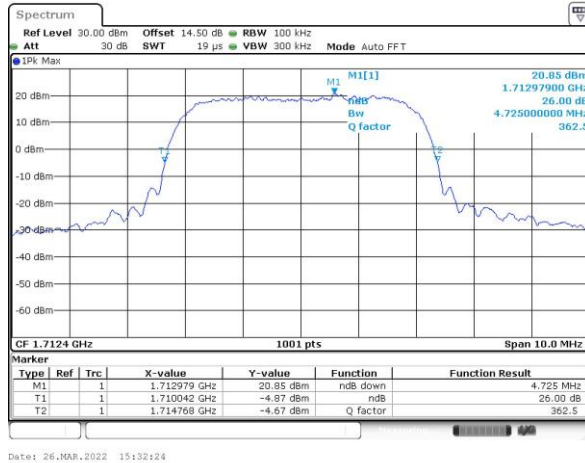


Date: 26.MAR.2022 15:12:46

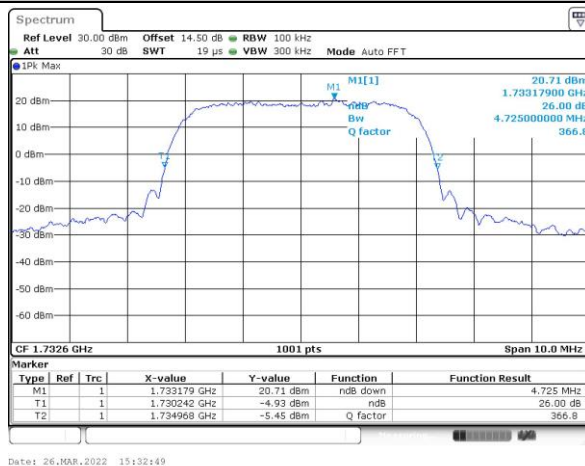


WCDMA Band IV (RMC 12.2Kbps)

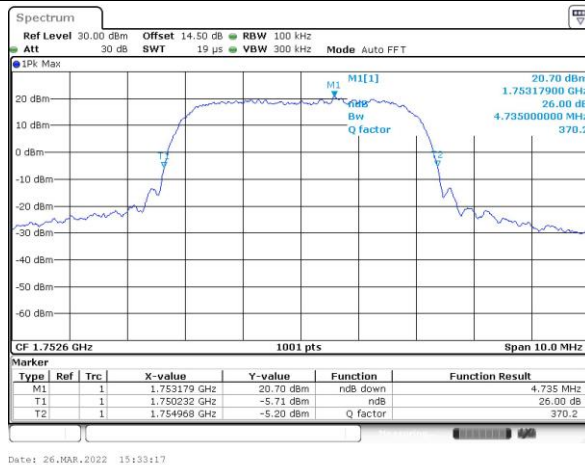
Lowest Channel



Middle Channel



Highest Channel



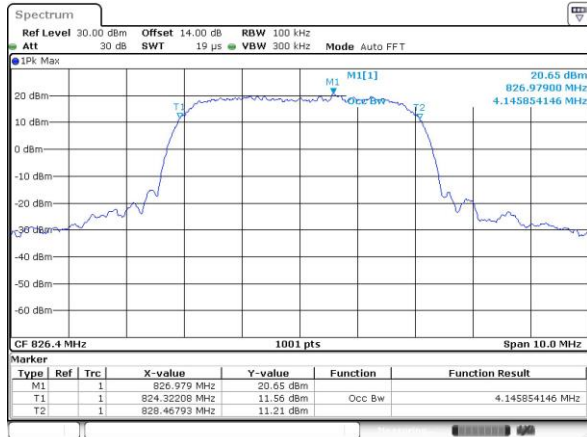
**Occupied Bandwidth**

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	4.15	4.16	4.16
Middle CH	4.14	4.15	4.14
Highest CH	4.15	4.15	4.16



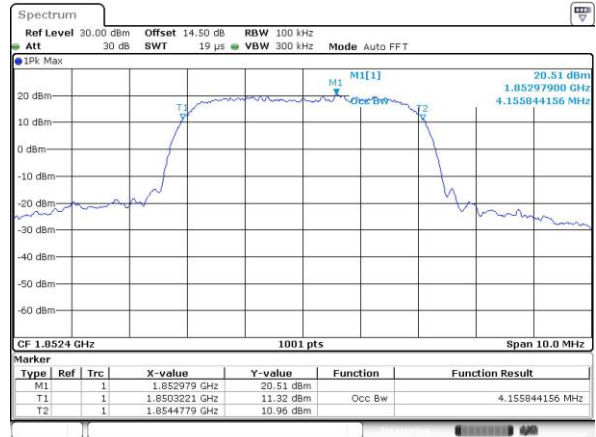
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

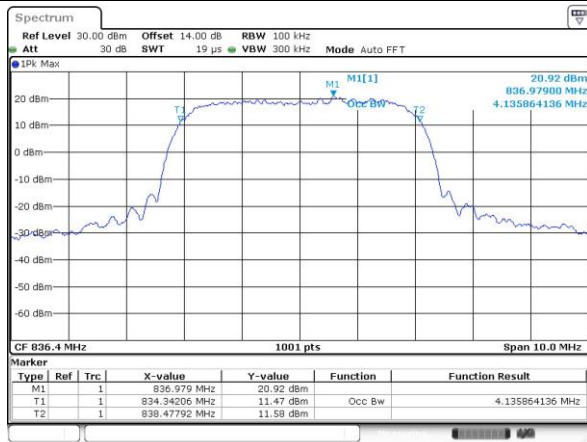


WCDMA Band II (RMC 12.2Kbps)

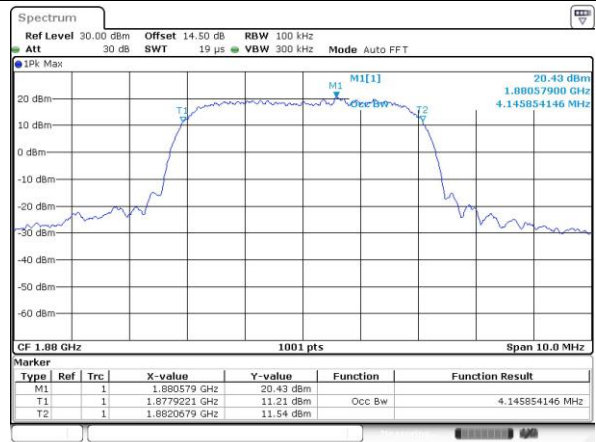
Lowest Channel



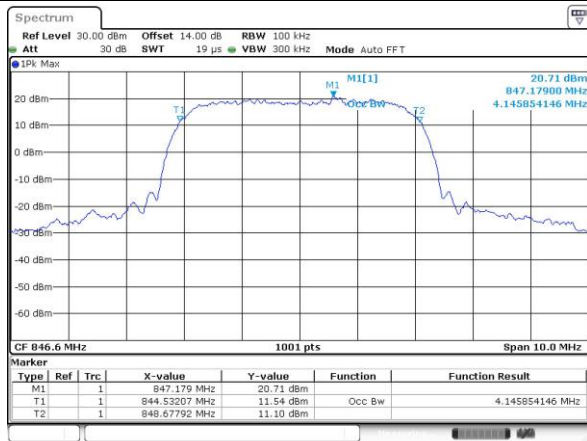
Middle Channel



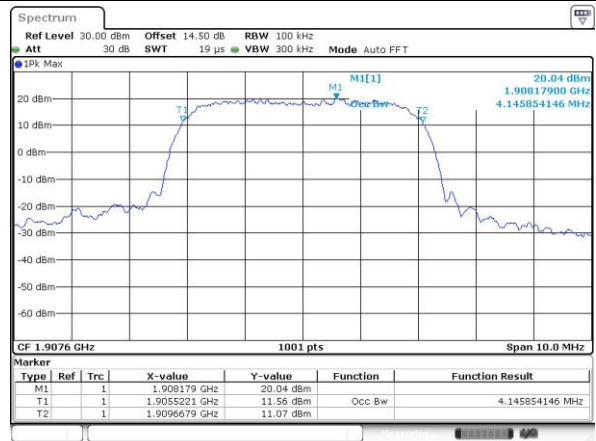
Middle Channel



Highest Channel



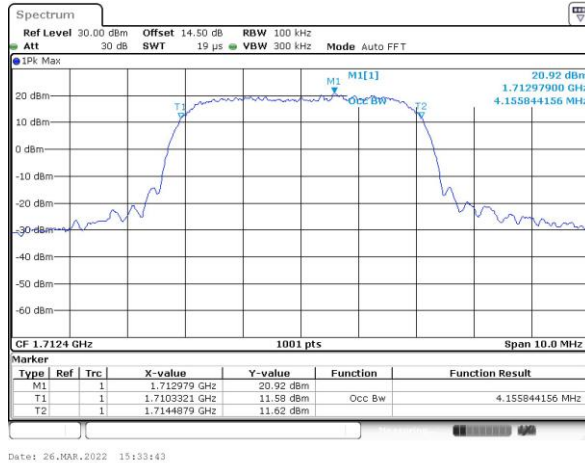
Highest Channel



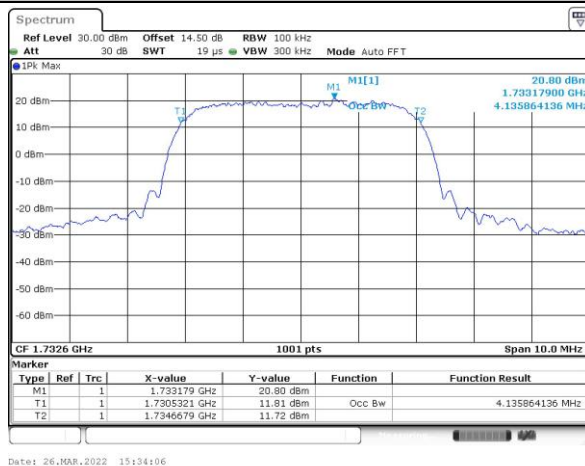


WCDMA Band IV (RMC 12.2Kbps)

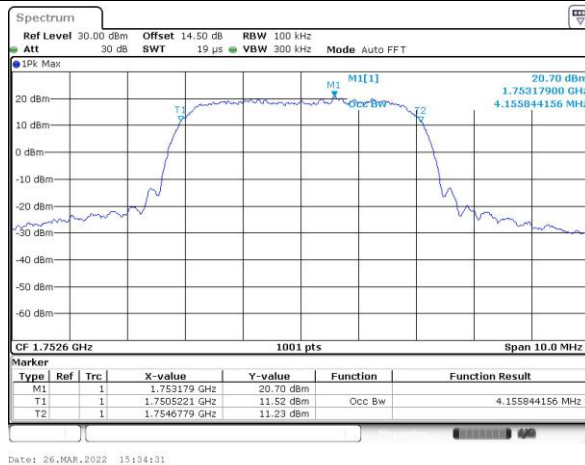
Lowest Channel



Middle Channel



Highest Channel

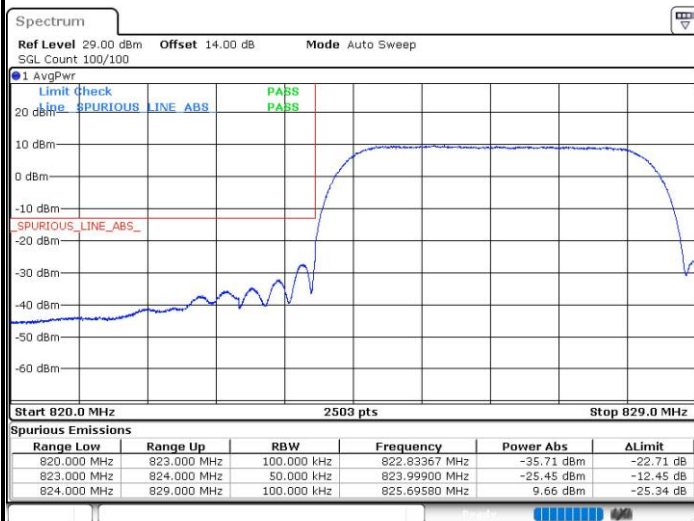




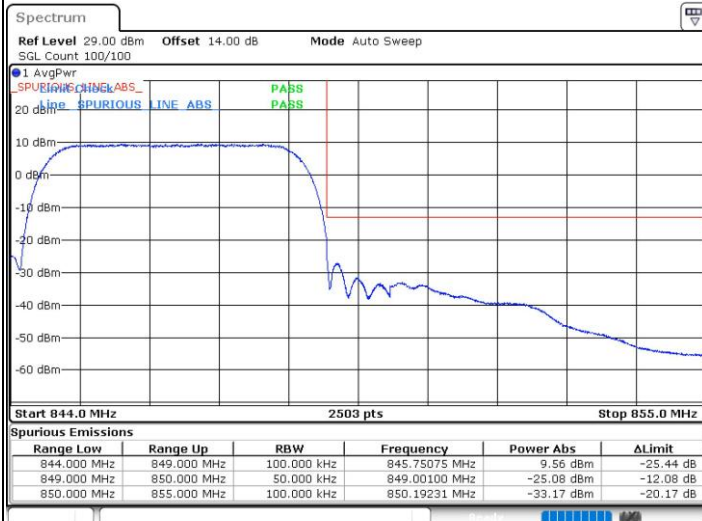
Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

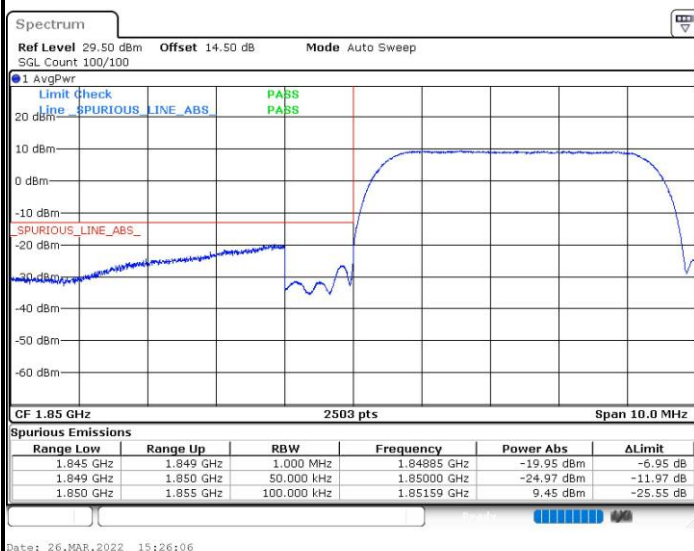


Highest Band Edge

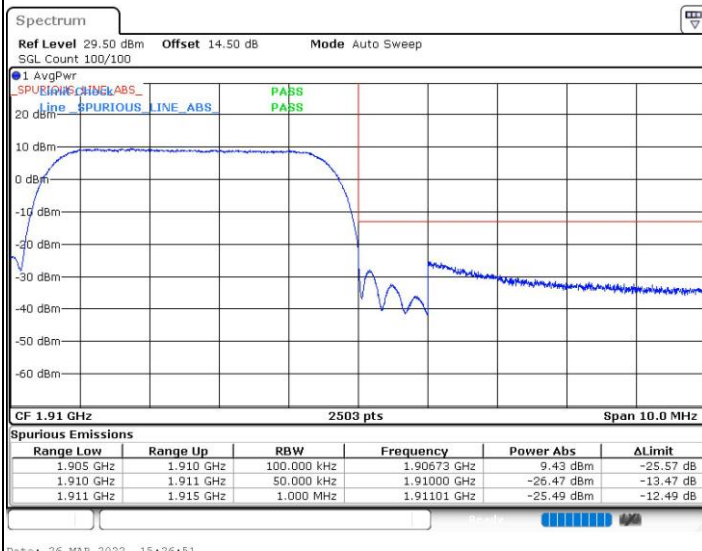


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



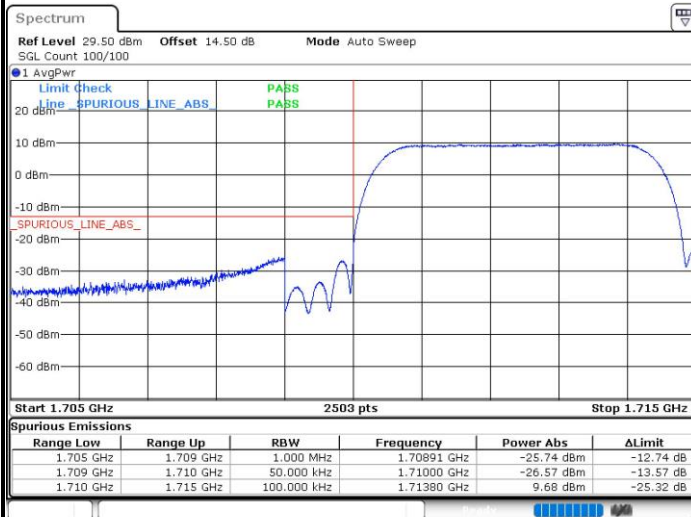
Highest Band Edge



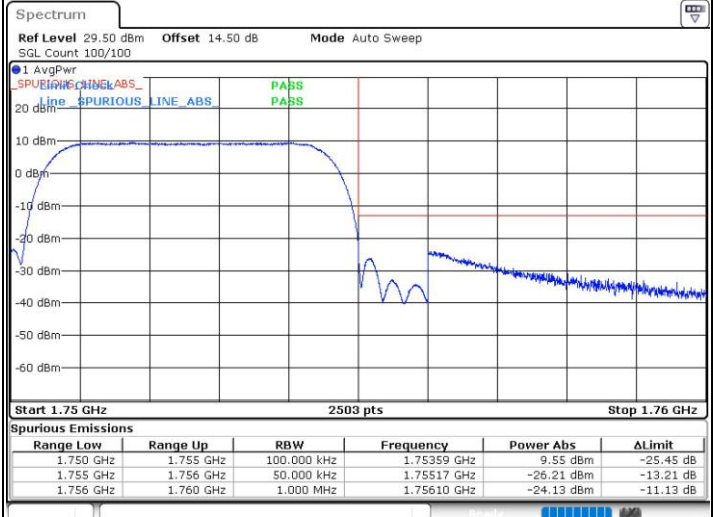


WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

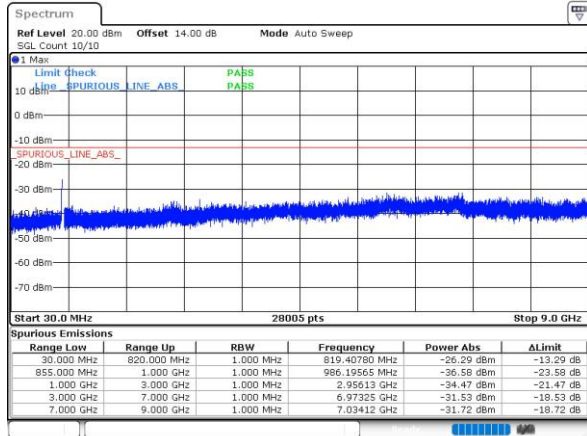




Conducted Spurious Emission

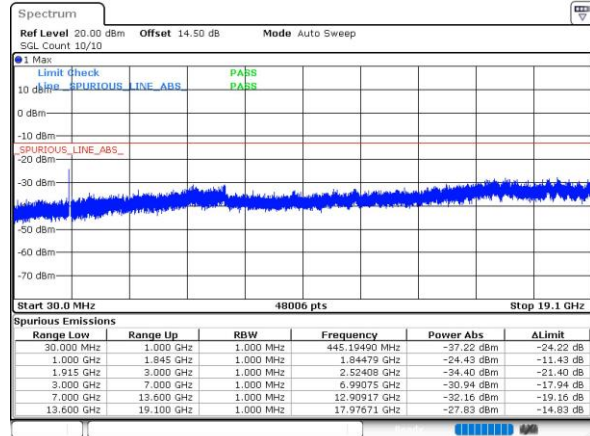
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

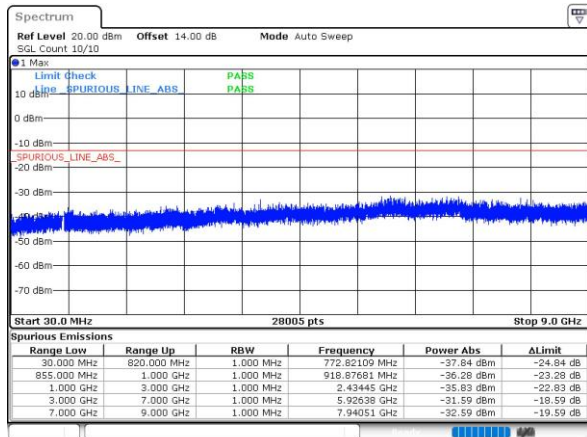


WCDMA Band II (RMC 12.2Kbps)

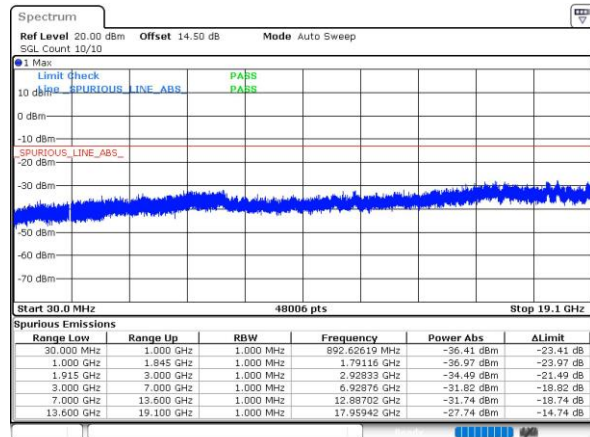
Lowest Channel



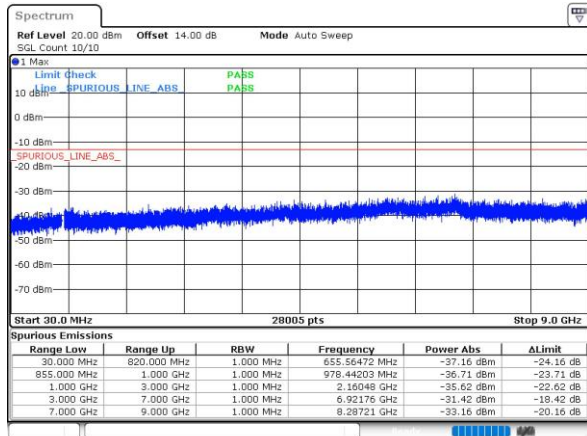
Middle Channel



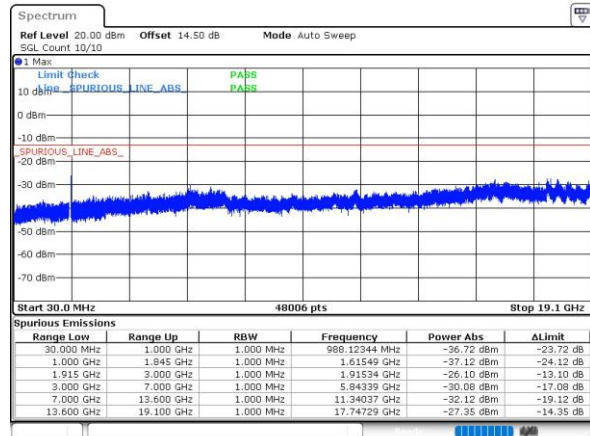
Middle Channel



Highest Channel



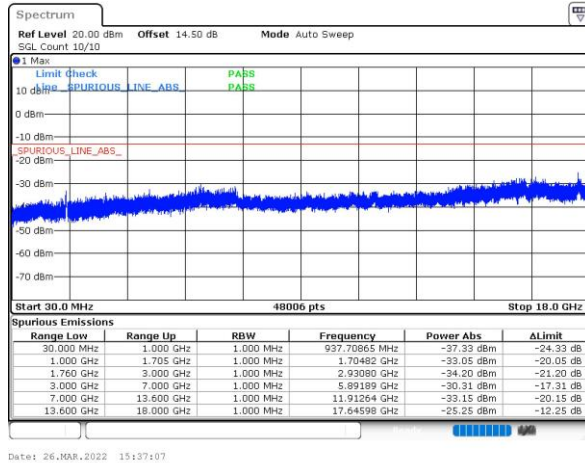
Highest Channel



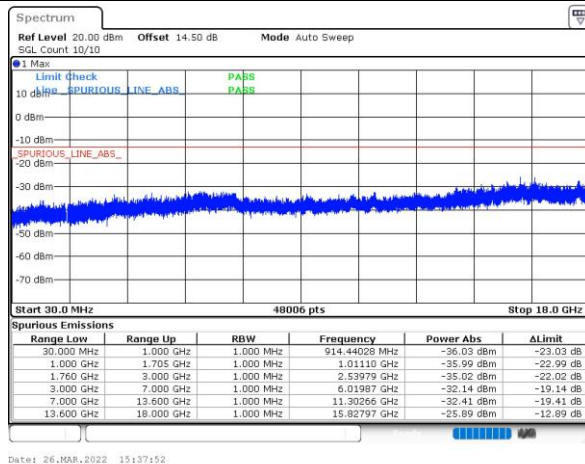


WCDMA Band IV (RMC 12.2Kbps)

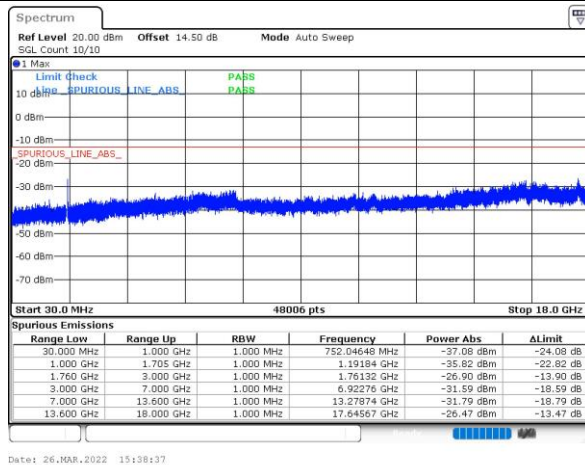
Lowest Channel



Middle Channel



Highest Channel



**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0044	
-20	Normal Voltage	0.0053	
-30	Normal Voltage	0.0050	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2. Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

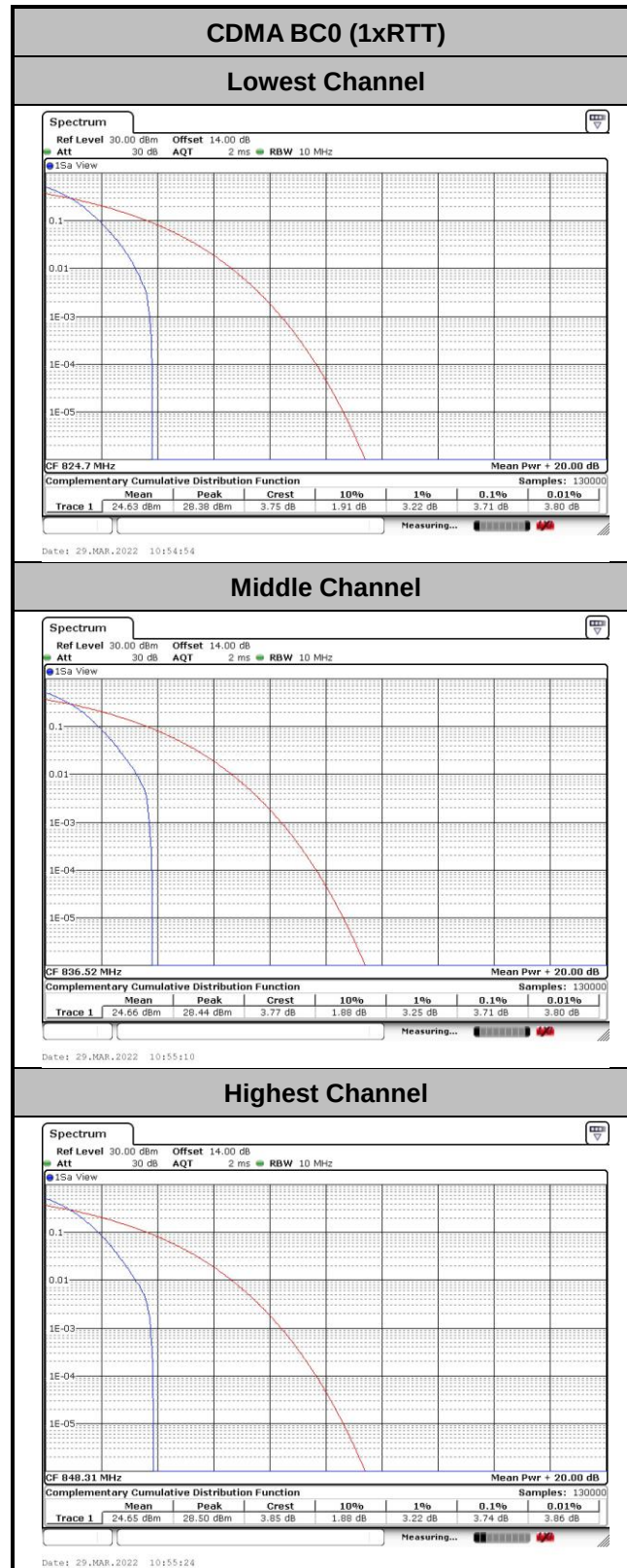
1. Normal Voltage = 7.78V. ; Battery End Point (BEP) = 7.2 V. ; Maximum Voltage =8.96 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



A3. CDMA

Peak-to-Average Ratio

Mode	CDMA BC0	Limit: 13dB
Mod.	1xRTT	Result
Lowest CH	3.71	PASS
Middle CH	3.71	
Highest CH	3.74	





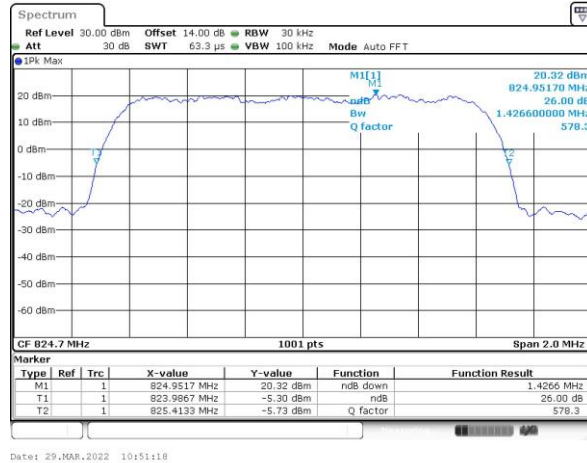
26dB Bandwidth

Mode	CDMA BC0
Mod.	1xRTT
Lowest CH	1.43
Middle CH	1.42
Highest CH	1.42

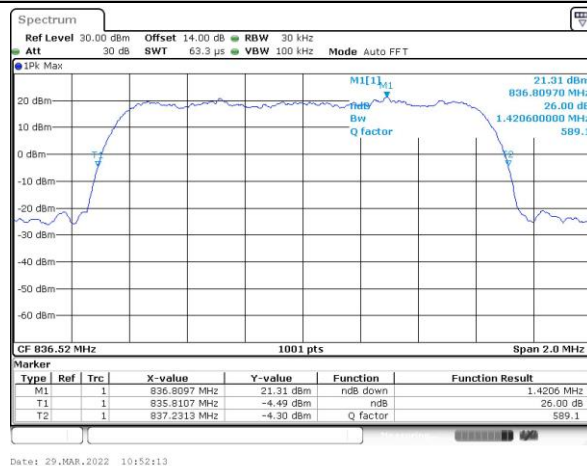


CDMA BC0 (1xRTT)

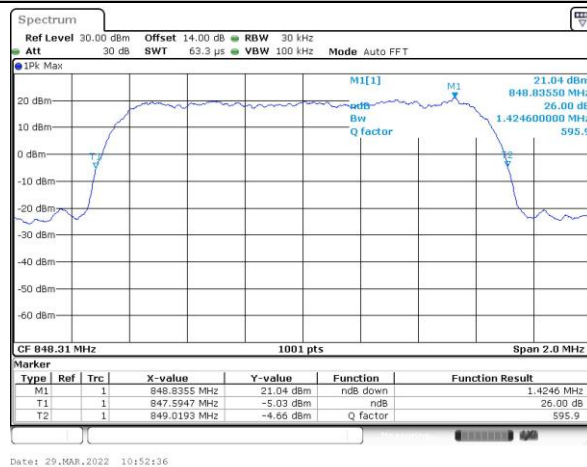
Lowest Channel



Middle Channel



Highest Channel





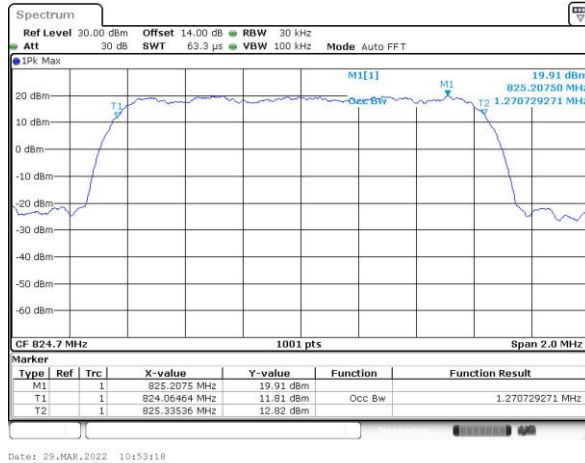
Occupied Bandwidth

Mode	CDMA BC0
Mod.	1xRTT
Lowest CH	1.27
Middle CH	1.27
Highest CH	1.27

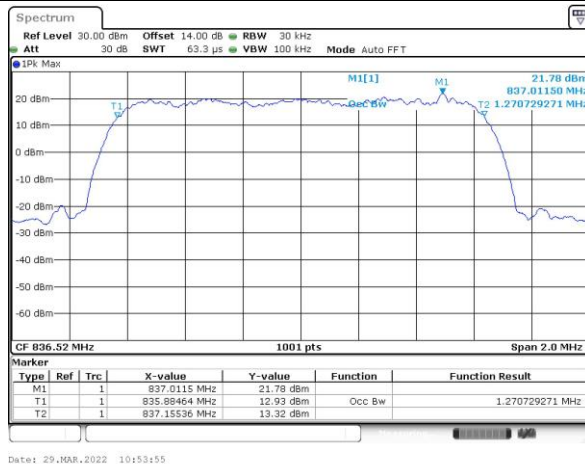


CDMA BC0 (1xRTT)

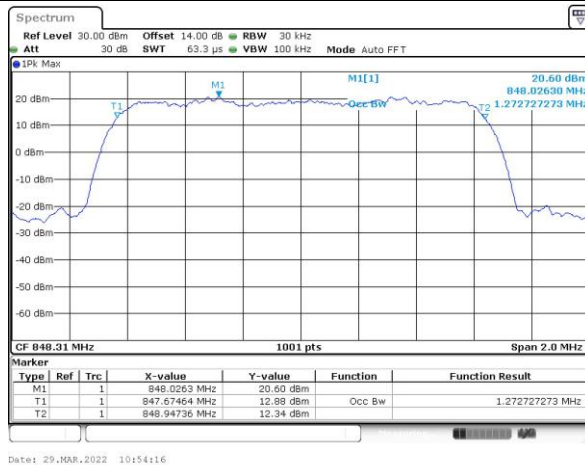
Lowest Channel



Middle Channel

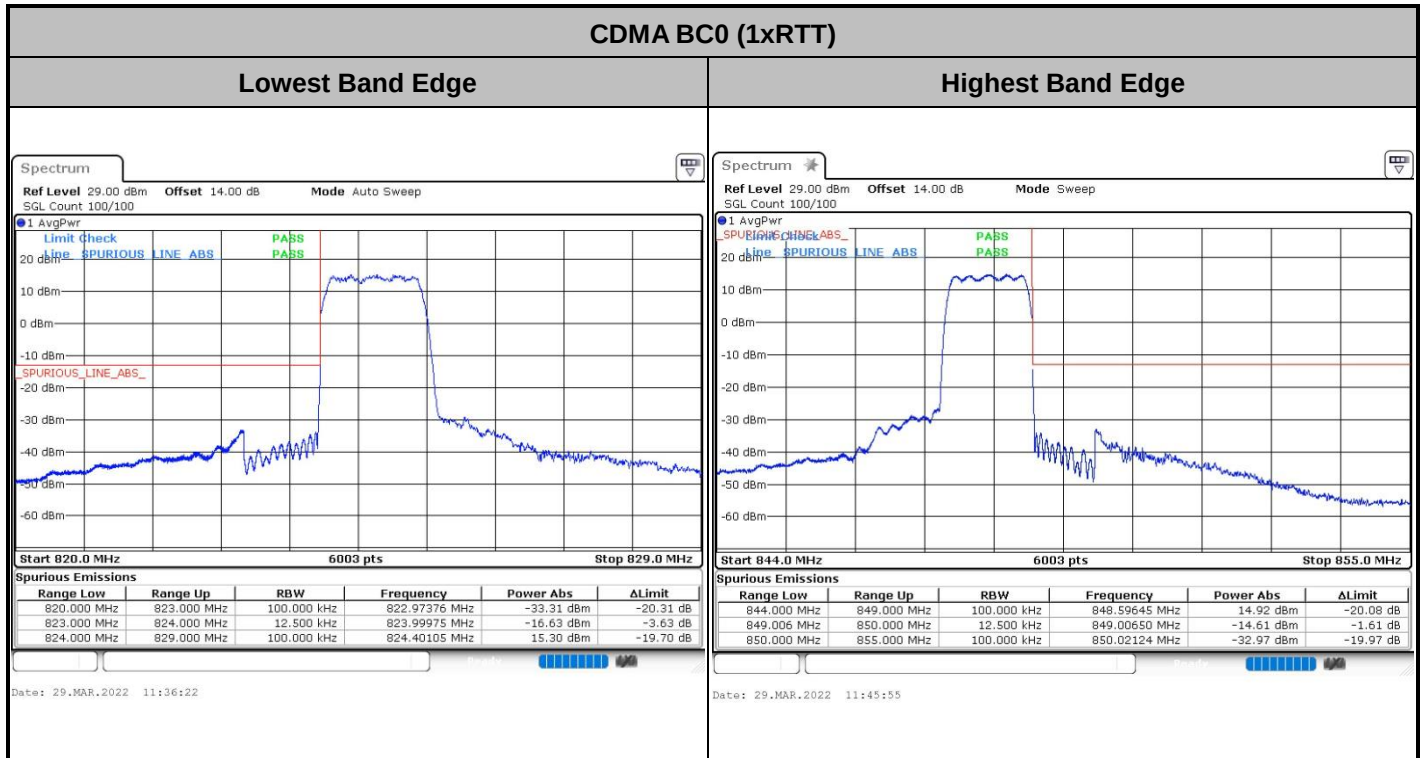


Highest Channel



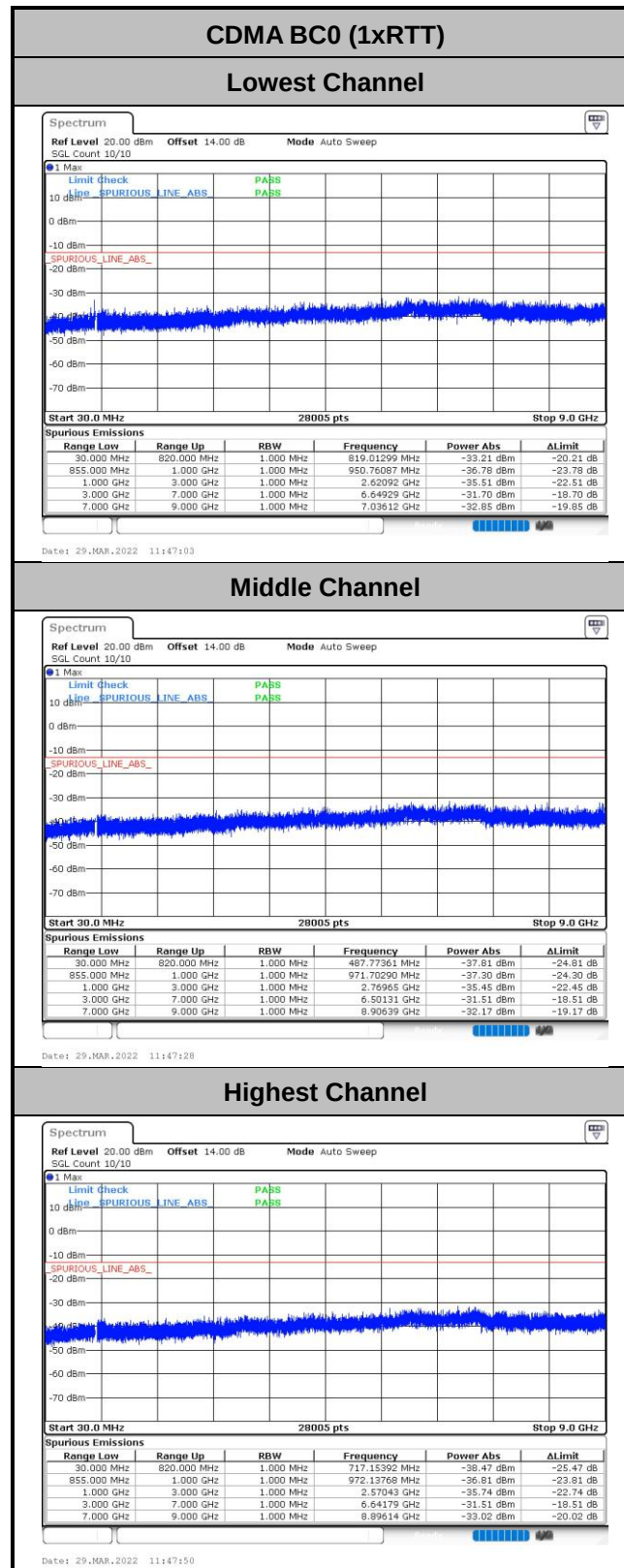


Conducted Band Edge





Conducted Spurious Emission



**Frequency Stability**

Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0161	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0155	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0151	

Note: Normal Voltage = 7.78V. ; Battery End Point (BEP) = 7.2 V. ; Maximum Voltage =8.96 V



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 all the supported antennas, choose the worst antenna perform final test and record in the report.

GSM850 (GSM) (ANT11)									
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	-67.26	-13	-54.26	-74.08	-70.51	4.00	9.40	H
	2509.2	-60.91	-13	-47.91	-72.60	-64.48	4.88	10.60	H
	3345.6	-62.57	-13	-49.57	-77.45	-67.50	5.52	12.60	H
	1672.8	-67.57	-13	-54.57	-74.58	-70.82	4.00	9.40	V
	2509.2	-60.76	-13	-47.76	-72.57	-64.33	4.88	10.60	V
	3345.6	-62.56	-13	-49.56	-77.46	-67.49	5.52	12.60	V

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

GSM850 (EDGE 1 Tx slots) (ANT11)									
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	-67.68	-13	-54.68	-74.50	-70.93	4.00	9.40	H
	2509.2	-62.91	-13	-49.91	-74.60	-66.48	4.88	10.60	H
	3345.6	-62.60	-13	-49.60	-77.48	-67.53	5.52	12.60	H
	1672.8	-67.50	-13	-54.50	-74.51	-70.75	4.00	9.40	V
	2509.2	-61.58	-13	-48.58	-73.39	-65.15	4.88	10.60	V
	3345.6	-62.39	-13	-49.39	-77.29	-67.32	5.52	12.60	V

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



GSM1900 (GSM) (ANT13)									
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	-61.18	-13	-48.18	-77.87	-67.93	5.85	12.60	H
	5640	-59.52	-13	-46.52	-79.69	-65.32	7.30	13.10	H
	7520	-55.57	-13	-42.57	-79.26	-58.72	8.35	11.50	H
	3760	-61.41	-13	-48.41	-77.66	-68.16	5.85	12.60	V
	5640	-60.49	-13	-47.49	-79.45	-66.29	7.30	13.10	V
	7520	-55.14	-13	-42.14	-79.25	-58.29	8.35	11.50	V

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

GSM1900 (EDGE 1 Tx slots) (ANT13)									
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	-60.98	-13	-47.98	-77.67	-67.73	5.85	12.60	H
	5640	-59.60	-13	-46.60	-79.77	-65.40	7.30	13.10	H
	7520	-55.76	-13	-42.76	-79.45	-58.91	8.35	11.50	H
	3760	-61.72	-13	-48.72	-77.97	-68.47	5.85	12.60	V
	5640	-60.58	-13	-47.58	-79.54	-66.38	7.30	13.10	V
	7520	-55.24	-13	-42.24	-79.35	-58.39	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) (ANT41)									
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	-67.60	-13	-54.60	-74.42	-70.85	4.00	9.40	H
	2509.2	-64.25	-13	-51.25	-75.94	-67.82	4.88	10.60	H
	3345.6	-62.62	-13	-49.62	-77.50	-67.55	5.52	12.60	H
	1672.8	-67.48	-13	-54.48	-74.49	-70.73	4.00	9.40	V
	2509.2	-64.36	-13	-51.36	-76.17	-67.93	4.88	10.60	V
	3345.6	-62.75	-13	-49.75	-77.65	-67.68	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) (ANT13)									
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	-61.18	-13	-48.18	-77.87	-67.93	5.85	12.60	H
	5640	-59.33	-13	-46.33	-79.50	-65.13	7.30	13.10	H
	7520	-55.96	-13	-42.96	-79.65	-59.11	8.35	11.50	H
	3760	-61.72	-13	-48.72	-77.97	-68.47	5.85	12.60	V
	5640	-60.73	-13	-47.73	-79.69	-66.53	7.30	13.10	V
	7520	-55.45	-13	-42.45	-79.56	-58.60	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) (ANT13)									
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	-61.53	-13	-48.53	-76.77	-68.38	5.65	12.50	H
	5197.8	-60.26	-13	-47.26	-79.87	-65.93	7.13	12.80	H
	6930.4	-58.08	-13	-45.08	-80.23	-61.48	8.40	11.80	H
	3465.2	-61.58	-13	-48.58	-76.85	-68.43	5.65	12.50	V
	5197.8	-60.50	-13	-47.50	-79.73	-66.17	7.13	12.80	V
	6930.4	-56.83	-13	-43.83	-79.27	-60.23	8.40	11.80	V

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

CDMA BC0(1xRTT) (ANT41)									
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	1673.04	-67.57	-13	-54.57	-74.40	-70.82	4.00	9.40	H
	2509.56	-64.43	-13	-51.43	-76.12	-68.00	4.88	10.60	H
	3346.08	-62.86	-13	-49.86	-77.74	-67.79	5.52	12.60	H
	1673.04	-67.78	-13	-54.78	-74.80	-71.03	4.00	9.40	V
	2509.56	-64.44	-13	-51.44	-76.25	-68.01	4.88	10.60	V
	3346.08	-62.44	-13	-49.44	-77.34	-67.37	5.52	12.60	V

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