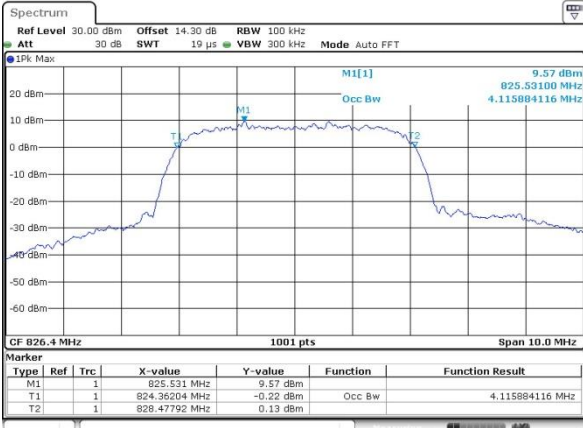




WCDMA Band V (RMC 12.2Kbps)

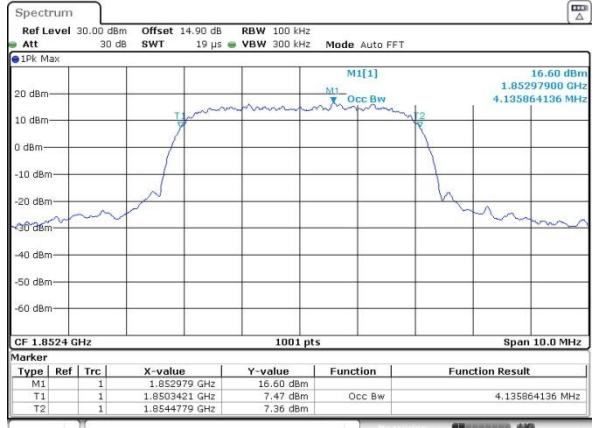
Lowest Channel



Date: 19.MAY.2020 02:51:16

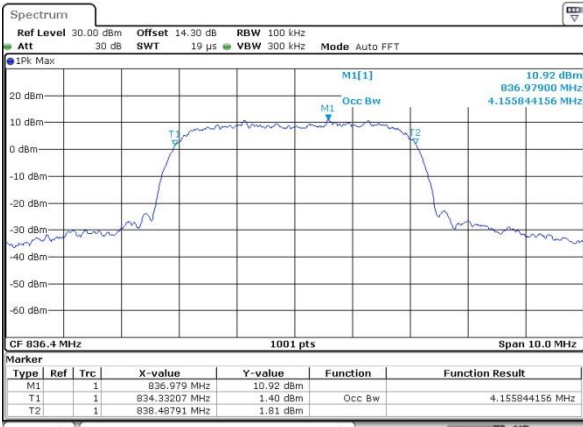
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



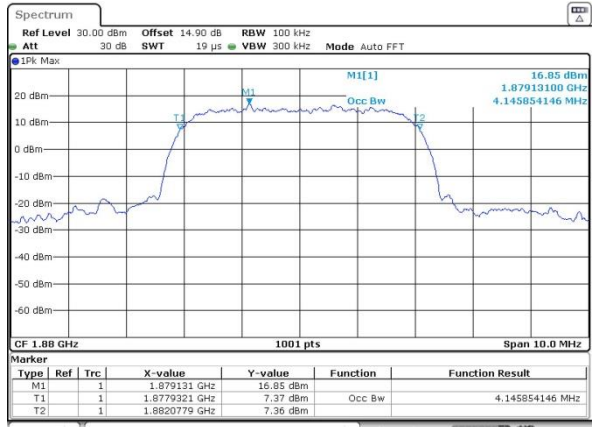
Date: 19.MAY.2020 03:03:12

Middle Channel



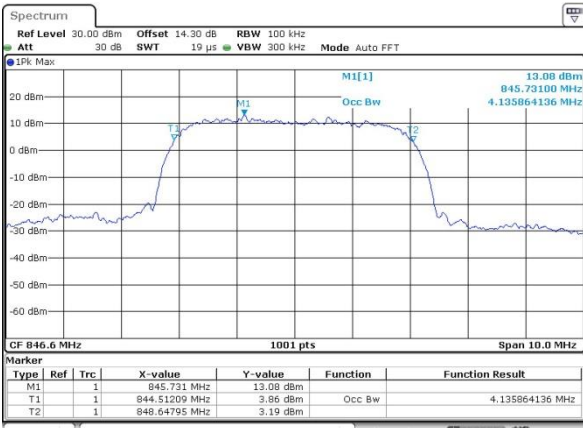
Date: 19.MAY.2020 02:51:38

Middle Channel



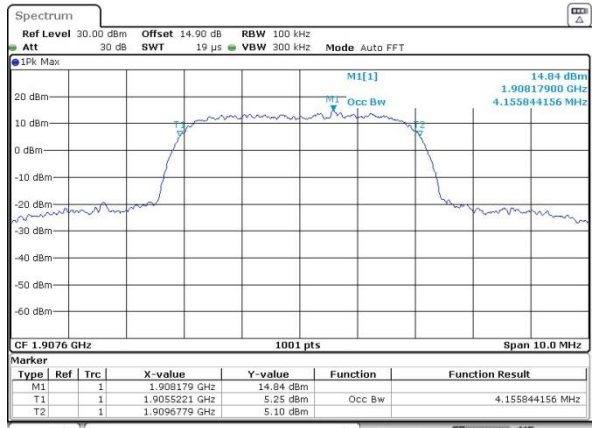
Date: 19.MAY.2020 03:03:31

Highest Channel

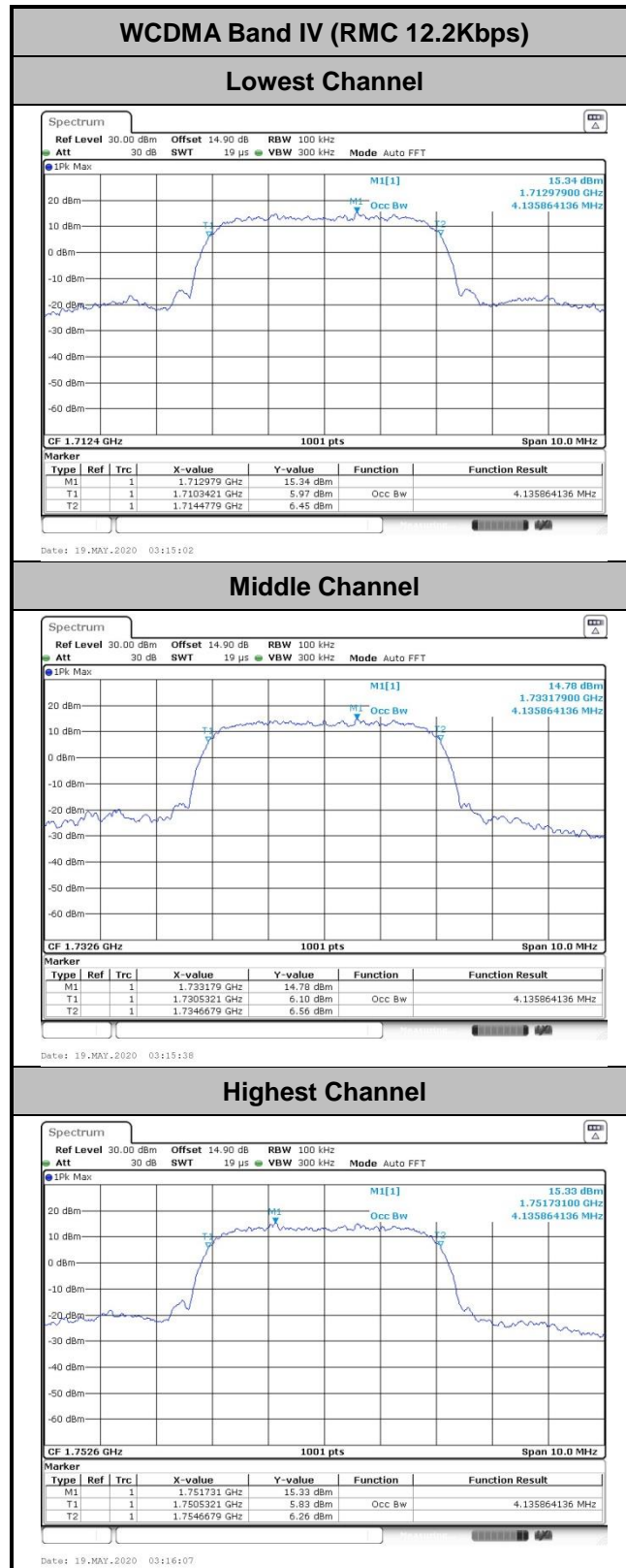


Date: 19.MAY.2020 02:52:07

Highest Channel

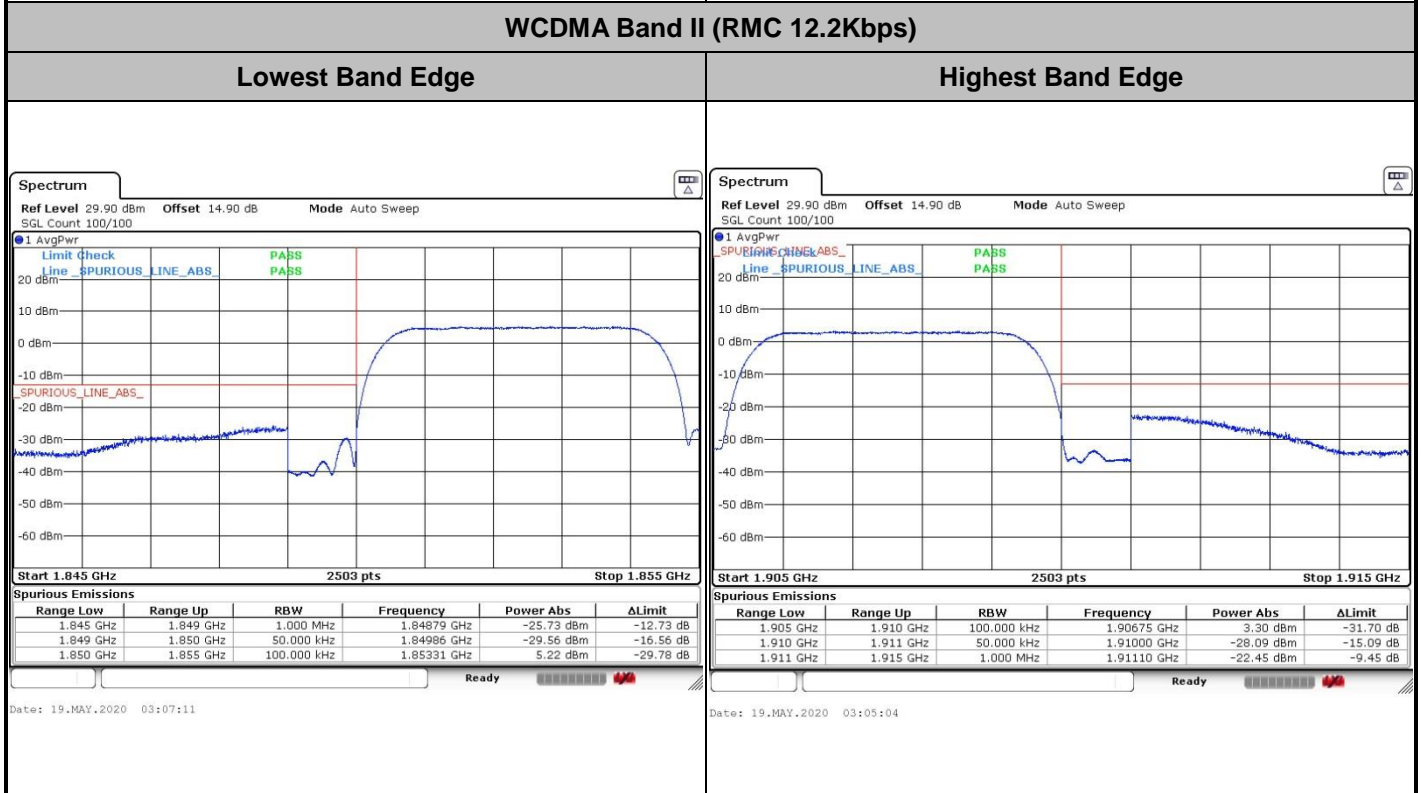
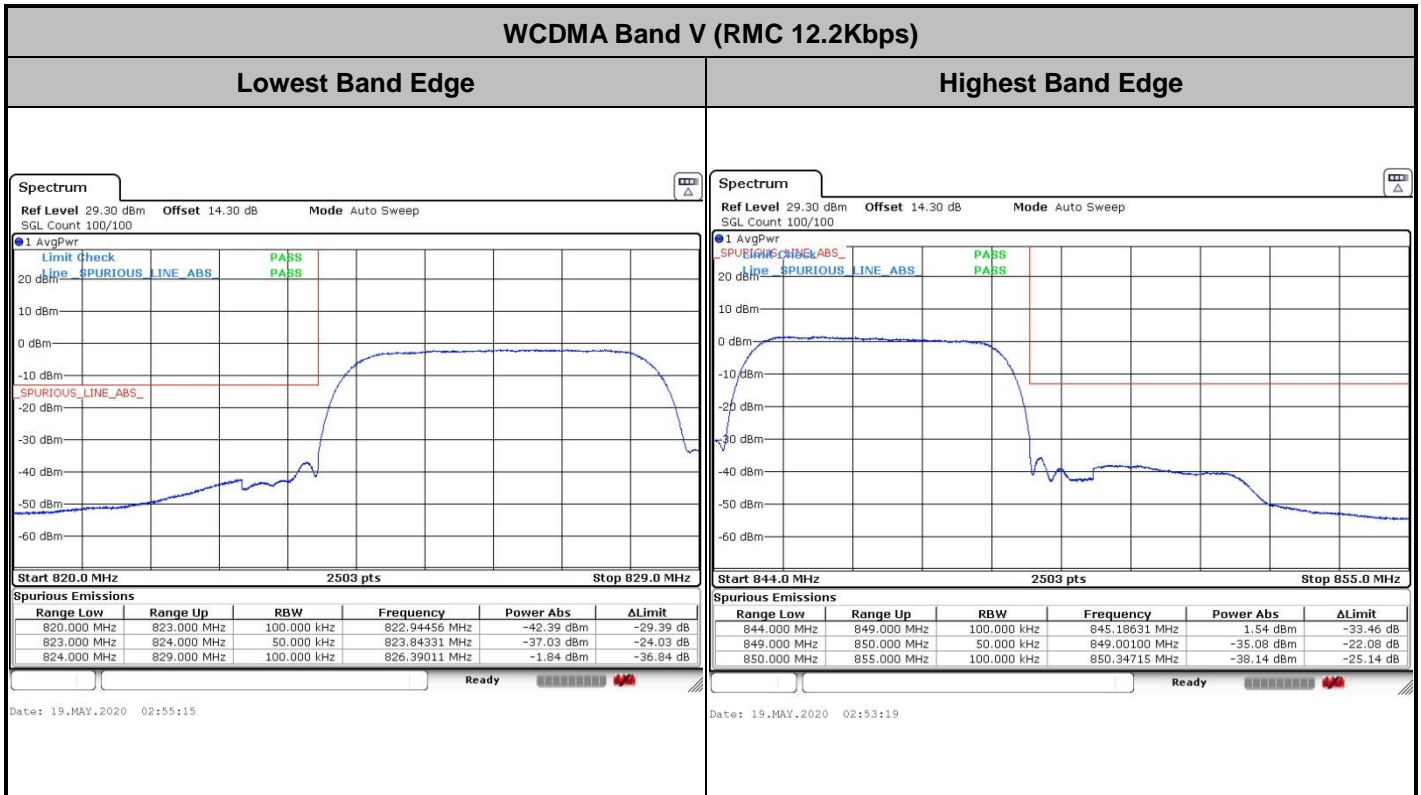


Date: 19.MAY.2020 03:03:54





# Conducted Band Edge

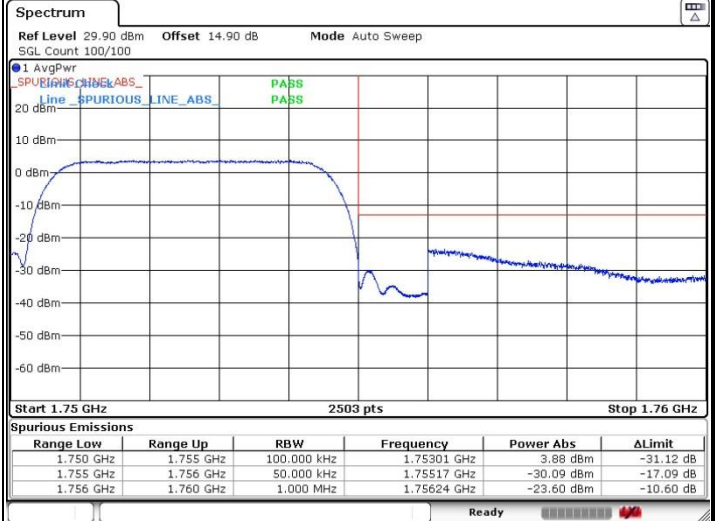
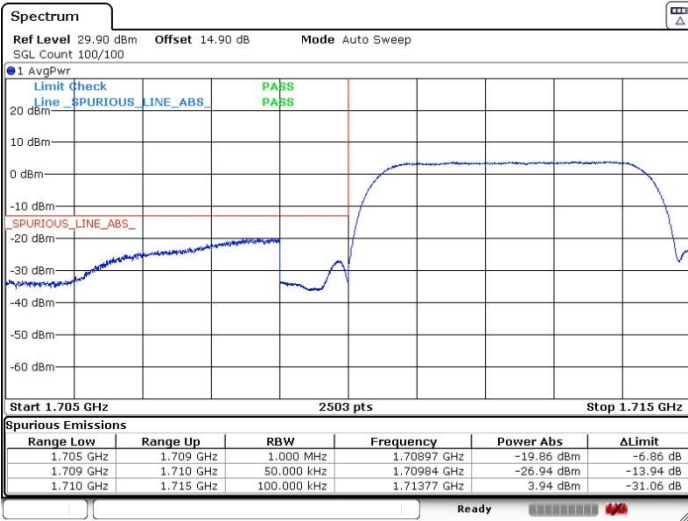




WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge

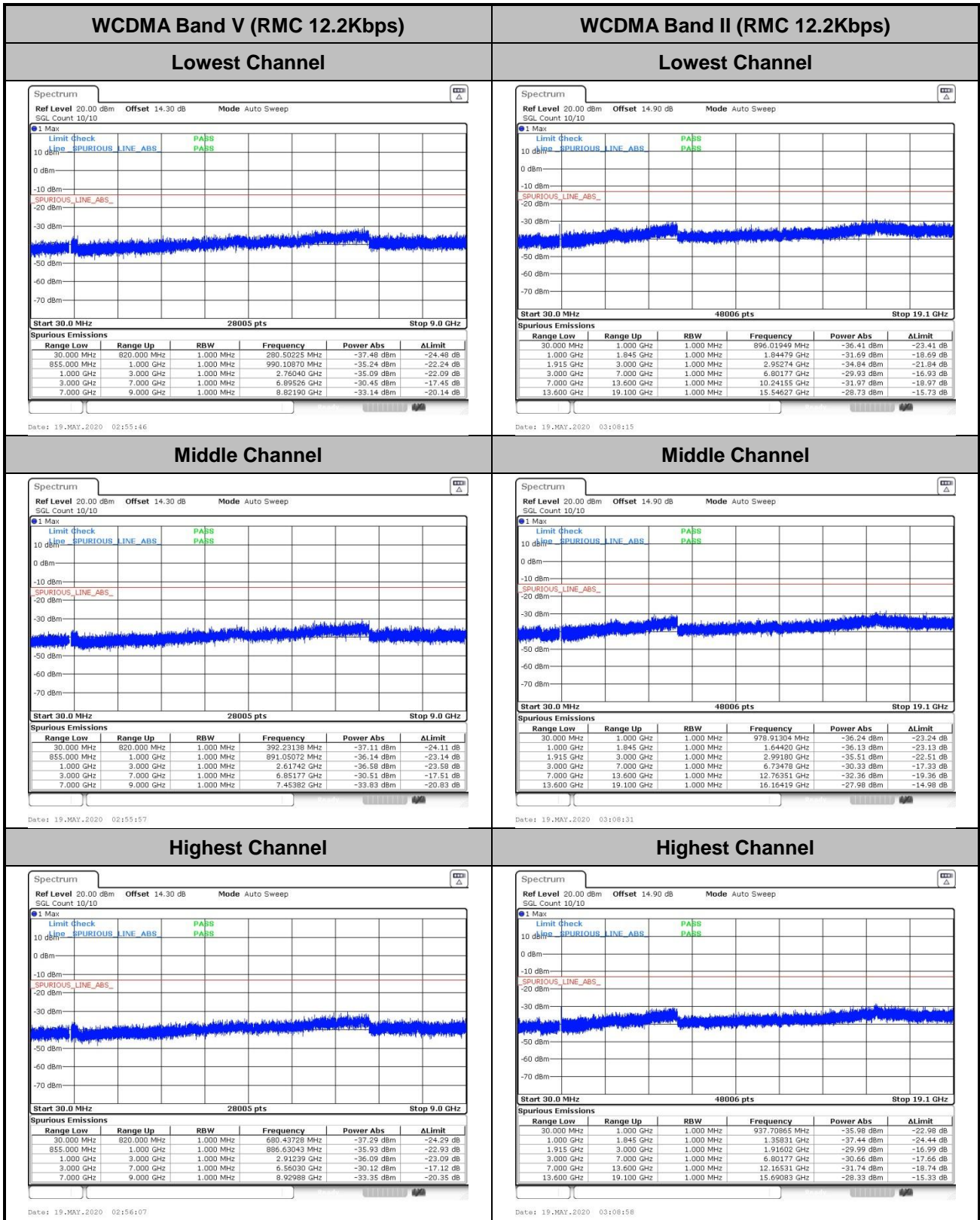


Date: 19.MAY.2020 03:18:29

Date: 19.MAY.2020 03:17:08



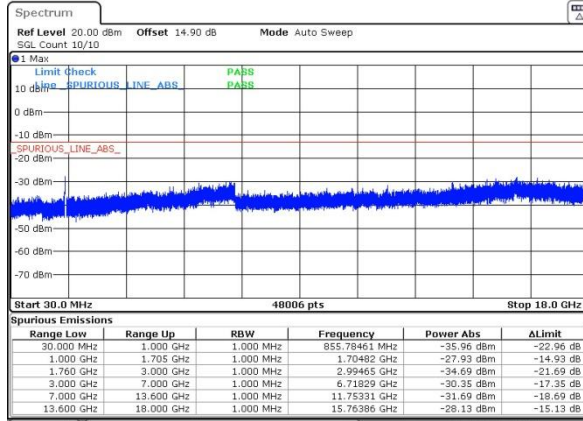
# Conducted Spurious Emission





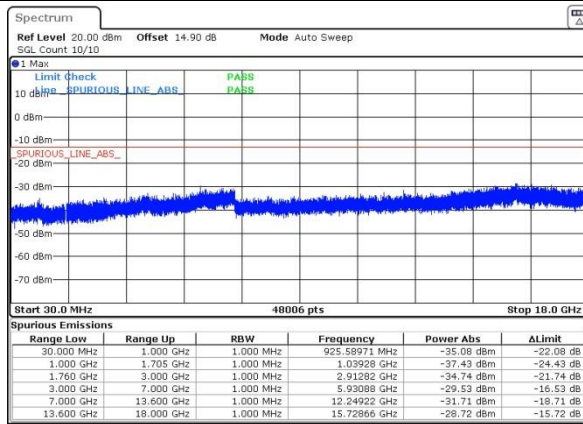
### WCDMA Band IV (RMC 12.2Kbps)

#### Lowest Channel



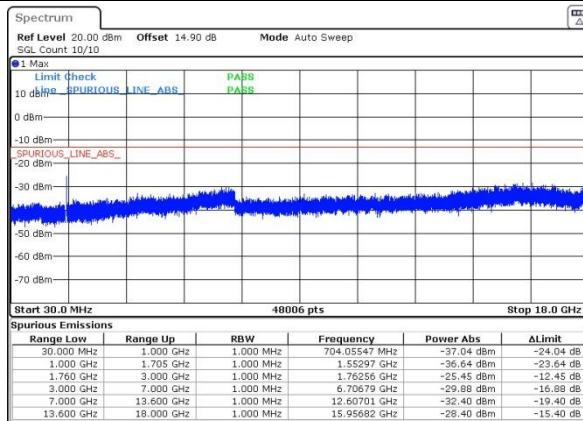
Date: 19.MAY.2020 03:18:53

#### Middle Channel



Date: 19.MAY.2020 03:19:07

#### Highest Channel



Date: 19.MAY.2020 03:19:25



### 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	0.0060	PASS
40	Normal Voltage	0.0375	
30	Normal Voltage	0.0464	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0062	
0	Normal Voltage	0.0375	
-10	Normal Voltage	0.0056	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0361	
20	Maximum Voltage	0.0442	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0113	

Note: Normal Voltage = 3.8V ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.45V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0187	PASS
40	Normal Voltage	0.0136	
30	Normal Voltage	0.0165	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0171	
0	Normal Voltage	0.0165	
-10	Normal Voltage	0.0239	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0167	
20	Maximum Voltage	0.0165	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

**Note:**

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.45V
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	0.0068	PASS
40	Normal Voltage	0.0105	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0420	
-10	Normal Voltage	0.0151	
-20	Normal Voltage	0.0177	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0081	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0197	

**Note:**

- 1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.45V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



### A3. CDMA2000

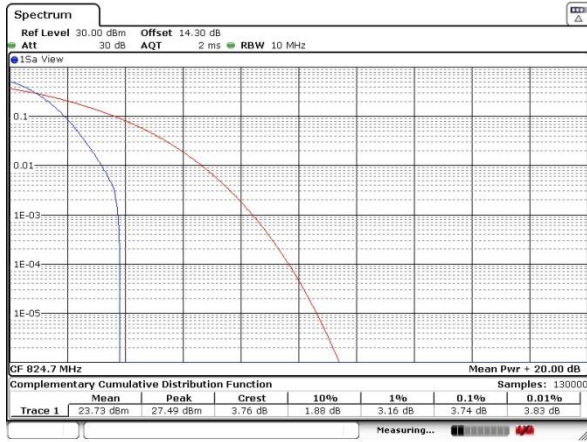
#### Peak-to-Average Ratio

Mode	CDMA BC0(dB)	CDMA BC1(dB)	Limit: 13dB
Mod.	1XRTT	1XRTT	Result
Lowest CH	3.74	4.29	<b>PASS</b>
Middle CH	3.77	3.65	
Highest CH	3.74	3.74	



CDMA BC 0 (1XRTT)

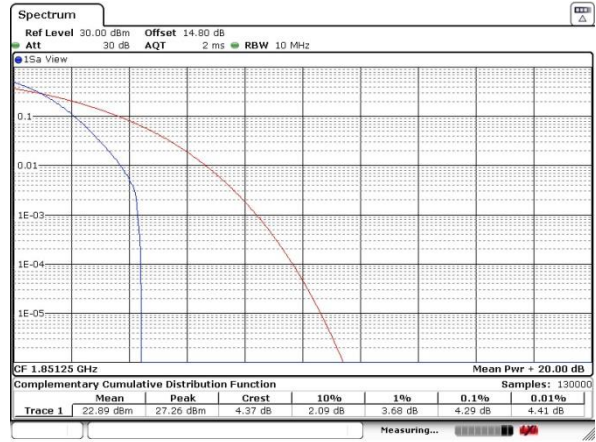
Lowest Channel



Date: 25 MAY 2020 17:34:43

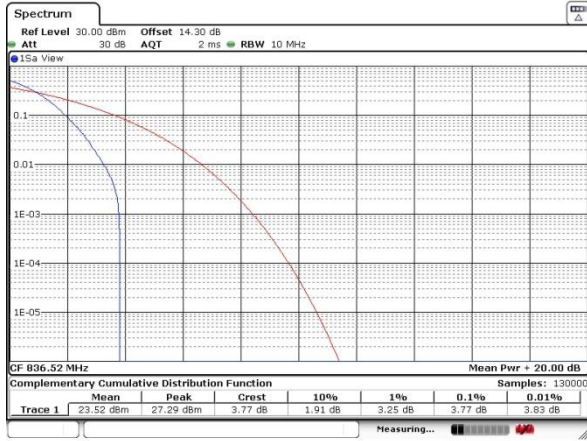
CDMA BC 1(1XRTT)

Lowest Channel



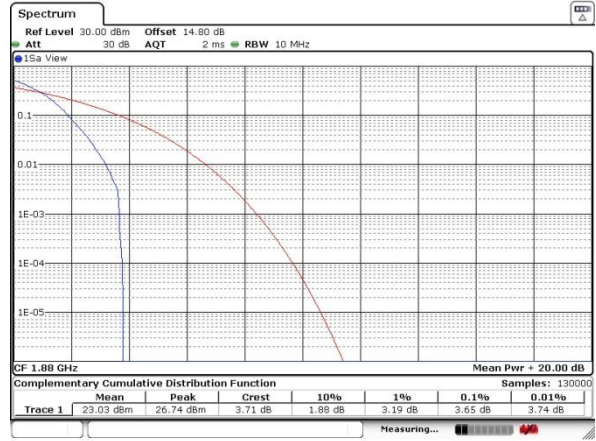
Date: 25 MAY 2020 18:36:52

Middle Channel



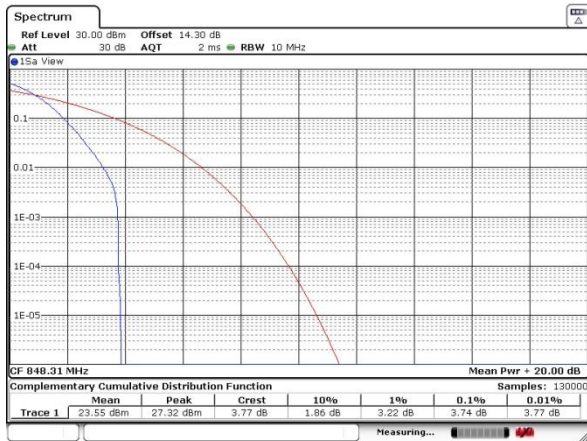
Date: 25 MAY 2020 17:34:54

Middle Channel



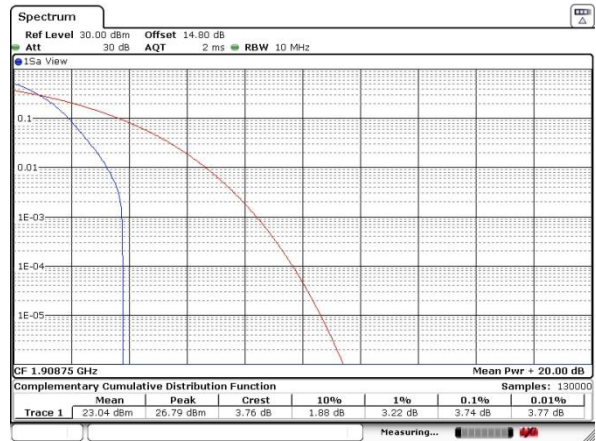
Date: 25 MAY 2020 18:37:01

Highest Channel



Date: 25 MAY 2020 17:35:04

Highest Channel



Date: 25 MAY 2020 18:37:10



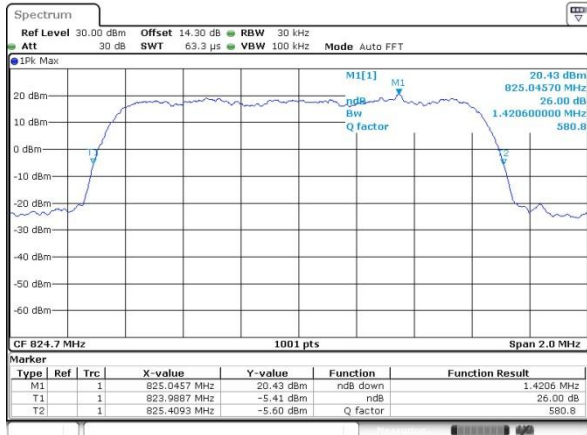
**26dB Bandwidth**

Mode	CDMA BC0(MHz)	CDMA BC1(MHz)
Mod.	1XRTT	1XRTT
Lowest CH	1.421	1.417
Middle CH	1.425	1.431
Highest CH	1.425	1.435



CDMA BC 0 (1XRTT)

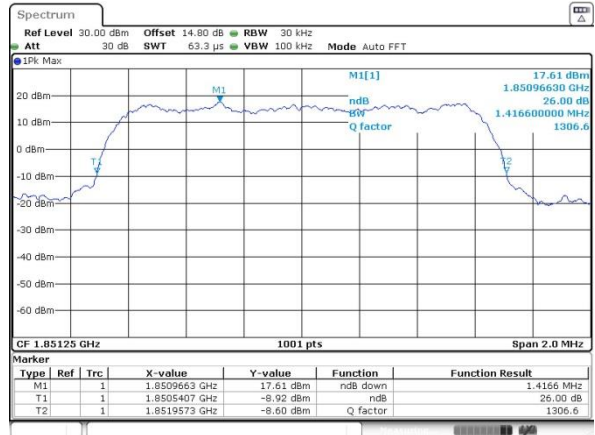
Lowest Channel



Date: 25 MAY 2020 17:15:19

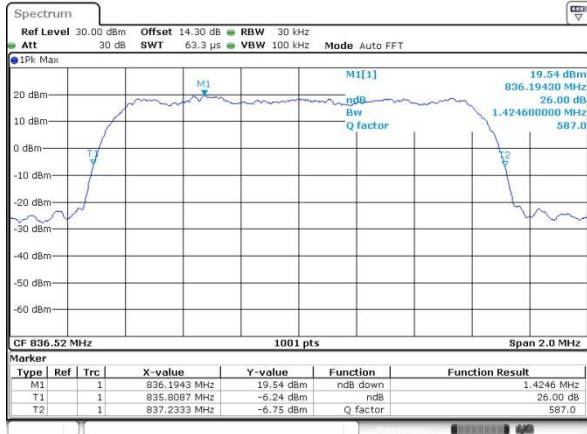
CDMA BC 1(1XRTT)

Lowest Channel



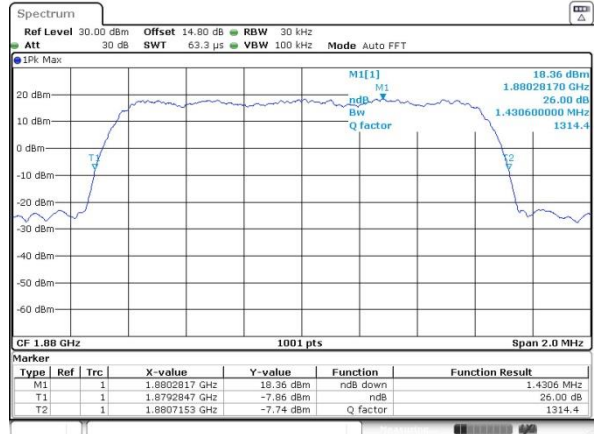
Date: 25 MAY 2020 18:27:46

Middle Channel



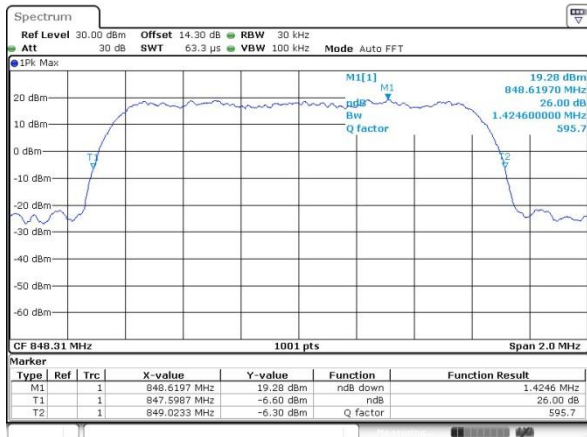
Date: 25 MAY 2020 17:15:53

Middle Channel



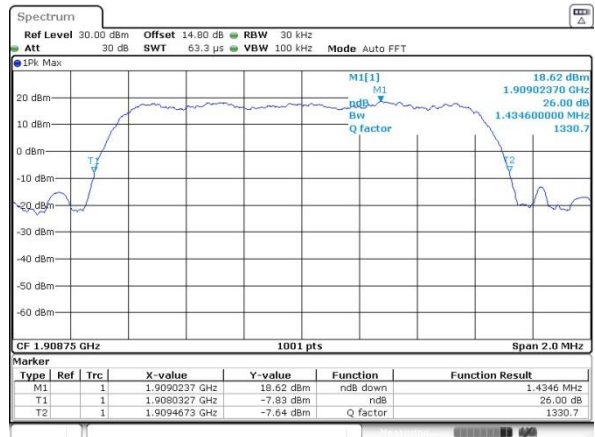
Date: 25 MAY 2020 18:28:08

Highest Channel



Date: 25 MAY 2020 17:16:17

Highest Channel



Date: 25 MAY 2020 18:28:05



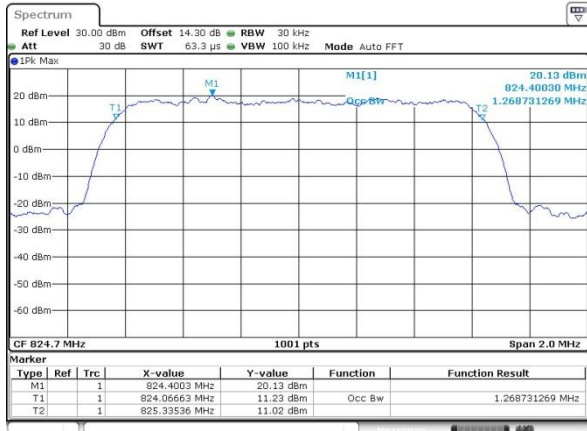
### Occupied Bandwidth

Mode	CDMA BC0(MHz)	CDMA BC1(MHz)
Mod.	1XRTT	1XRTT
Lowest CH	1.269	1.269
Middle CH	1.269	1.271
Highest CH	1.271	1.271



CDMA BC 0 (1XRTT)

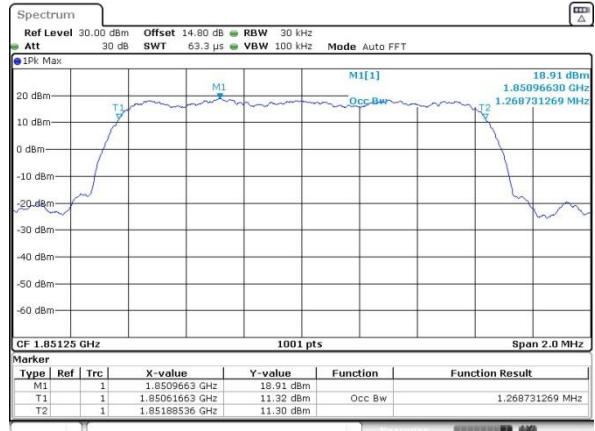
Lowest Channel



Date: 25 MAY 2020 17:19:43

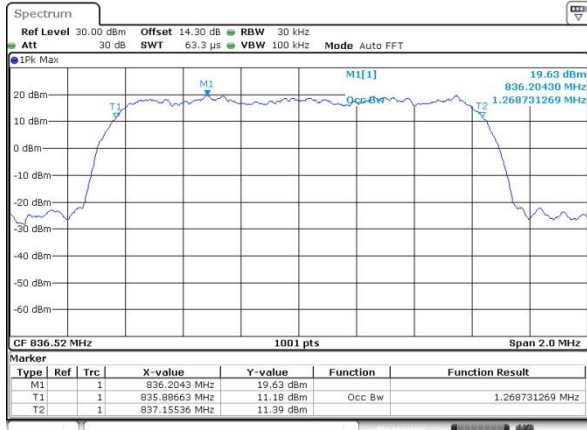
CDMA BC 1 (1XRTT)

Lowest Channel



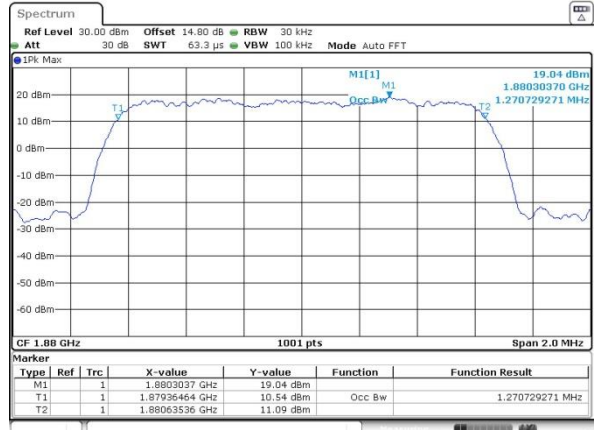
Date: 28 MAY 2020 20:33:43

Middle Channel



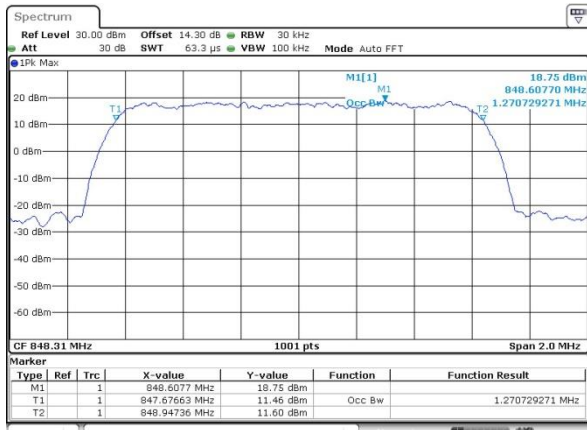
Date: 25 MAY 2020 17:20:05

Middle Channel



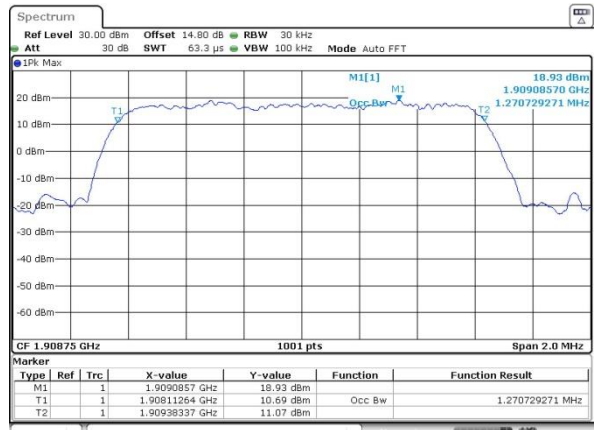
Date: 25 MAY 2020 18:34:28

Highest Channel



Date: 25 MAY 2020 17:20:28

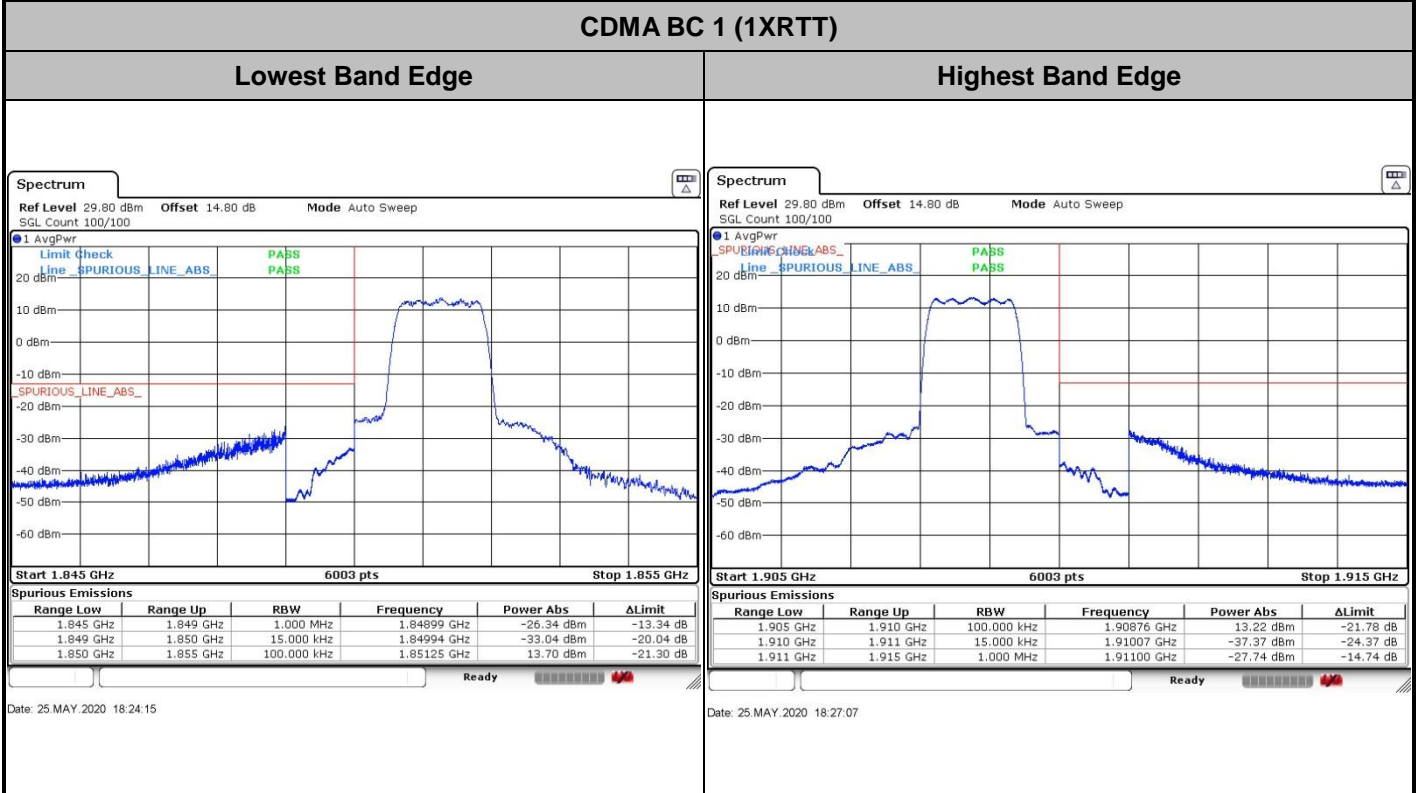
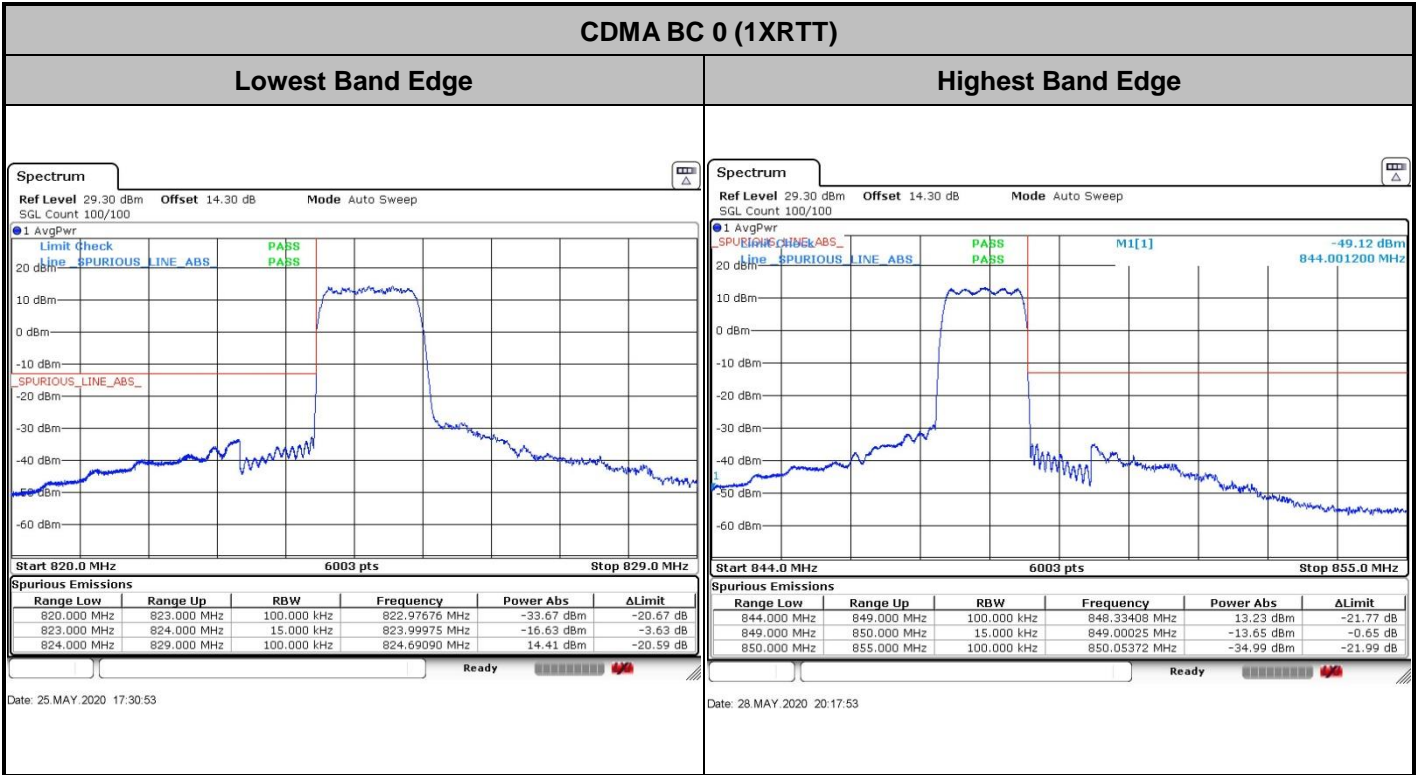
Highest Channel



Date: 25 MAY 2020 18:34:50



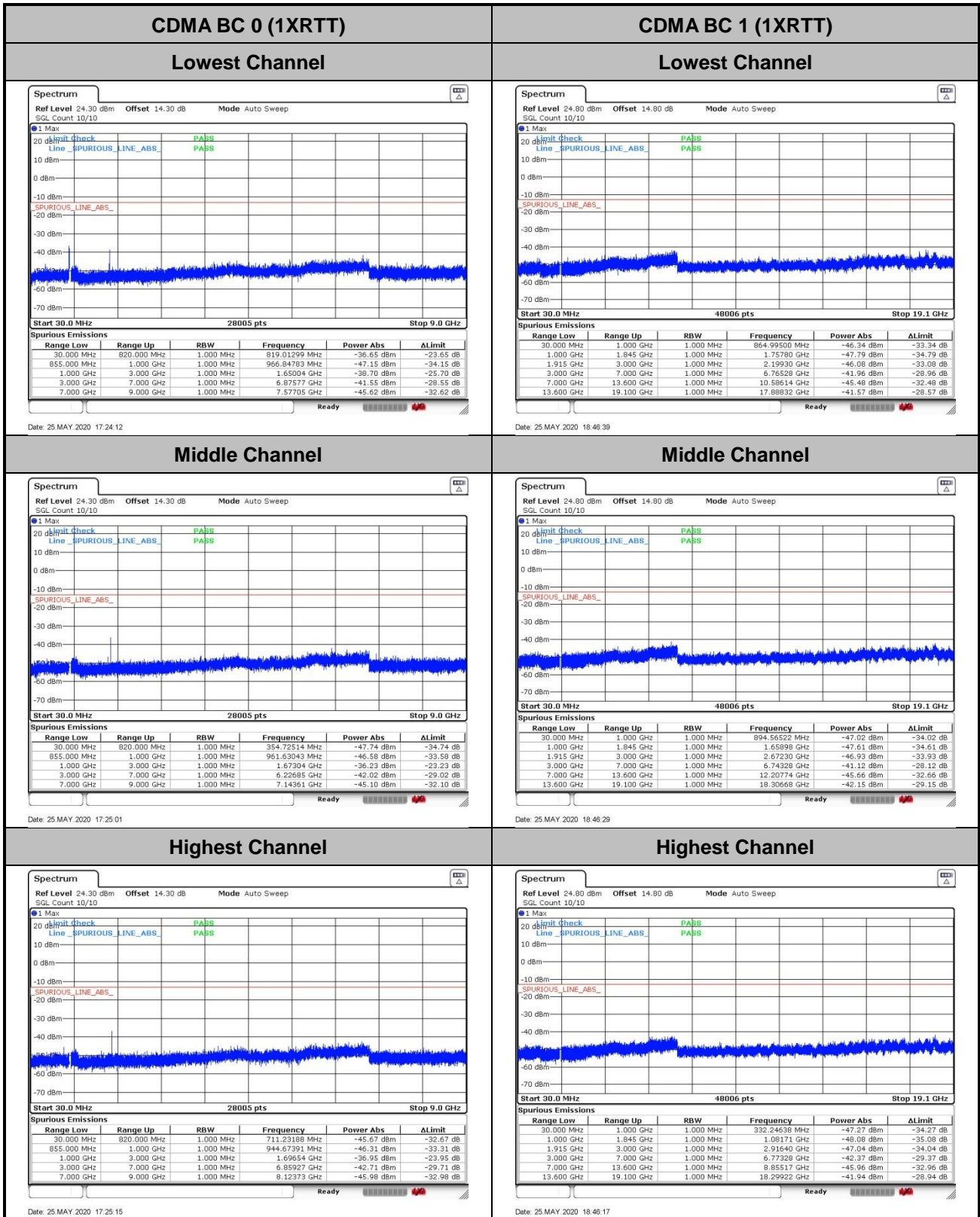
# Conducted Band Edge







# Conducted Spurious Emission





Frequency Stability

Test Conditions	Middle Channel	CDMA BC 0 (1XRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0078	PASS
40	Normal Voltage	0.0244	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0358	
0	Normal Voltage	0.0239	
-10	Normal Voltage	0.0062	
-20	Normal Voltage	0.0088	
-30	Normal Voltage	0.0045	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0251	

Note: Normal Voltage = 3.8V ; Battery End Point (BEP) =3.4V ; Maximum Voltage =4.45V



Test Conditions	Middle Channel	CDMA BC 1 (1XRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0044	PASS
40	Normal Voltage	0.0188	
30	Normal Voltage	0.0065	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0152	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0138	
-20	Normal Voltage	0.0125	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0035	

**Note:**

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.4V ; Maximum Voltage =4.45V
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

GSM850 (GSM)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-67.53	-13	-54.53	-74.50	1.58	10.70	H
	2510	-46.78	-13	-33.78	-55.03	2.102	12.50	H
	3348	-63.47	-13	-50.47	-72.36	2.856	13.90	H
	4182	-52.97	-13	-39.97	-61.43	2.689	13.30	H
	1672	-67.59	-13	-54.59	-74.56	1.58	10.70	V
	2510	-38.87	-13	-25.87	-47.12	2.10	12.50	V
	3348	-63.50	-13	-50.50	-72.39	2.86	13.90	V
	4182	-57.97	-13	-44.97	-66.43	2.69	13.30	V

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

GSM850 (EDGE class 8)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-65.71	-13	-52.71	-72.68	1.58	10.70	H
	2508	-52.10	-13	-39.10	-60.35	2.102	12.50	H
	3348	-63.66	-13	-50.66	-72.55	2.856	13.90	H
	1672	-64.56	-13	-51.56	-71.53	1.58	10.70	V
	2510	-46.70	-13	-33.70	-54.95	2.10	12.50	V
	3348	-63.40	-13	-50.40	-72.29	2.86	13.90	V

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



GSM1900 (GSM)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-57.63	-13	-44.63	-69.89	2.641	14.90	H
	5640	-40.78	-13	-27.78	-52.64	2.94	14.80	H
	7524	-49.03	-13	-36.03	-58.80	3.39	13.16	H
	3760	-57.73	-13	-44.73	-69.99	2.64	14.90	V
	5640	-39.18	-13	-26.18	-51.04	2.94	14.80	V
	7524	-48.59	-13	-35.59	-58.36	3.39	13.16	V

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

GSM1900 (EDGE class 8)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-57.46	-13	-44.46	-69.72	2.641	14.90	H
	5640	-40.16	-13	-27.16	-52.02	2.94	14.80	H
	7524	-48.91	-13	-35.91	-58.68	3.39	13.16	H
	3759	-57.87	-13	-44.87	-70.13	2.64	14.90	V
	5640	-38.07	-13	-25.07	-49.93	2.94	14.80	V
	7524	-48.32	-13	-35.32	-58.09	3.39	13.16	V

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



WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-67.88	-13	-54.88	-74.85	1.58	10.70	H
	2509.2	-64.86	-13	-51.86	-73.11	2.102	12.50	H
	3348	-61.08	-13	-48.08	-69.97	2.856	13.90	H
	1672	-65.04	-13	-52.04	-72.01	1.58	10.70	V
	2509.2	-62.35	-13	-49.35	-70.60	2.10	12.50	V
	3348	-61.45	-13	-48.45	-70.34	2.86	13.90	V

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

WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-54.84	-13	-41.84	-67.10	2.64	14.90	H
	5640	-52.73	-13	-39.73	-64.59	2.94	14.80	H
	7524	-48.59	-13	-35.59	-58.36	3.39	13.16	H
	3759	-57.45	-13	-44.45	-69.71	2.64	14.90	V
	5640	-52.88	-13	-39.88	-64.74	2.94	14.80	V
	7524	-48.56	-13	-35.56	-58.33	3.39	13.16	V

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



WCDMA Band IV(RMC 12.2Kbps)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-56.01	-13	-43.01	-66.75	2.604	13.34	H
	5197.8	-53.19	-13	-40.19	-63.70	3.011	13.52	H
	6936	-51.08	-13	-38.08	-61.28	3.271	13.47	H
	3465.2	-60.08	-13	-47.08	-70.82	2.604	13.34	V
	5199	-54.27	-13	-41.27	-64.78	3.011	13.52	V
	6936	-50.52	-13	-37.52	-60.72	3.271	13.47	V

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

CDMA BC0(1xRTT)								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1674	-64.21	-13	-51.21	-71.18	1.58	10.70	H
	2510	-58.09	-13	-45.09	-66.34	2.102	12.50	H
	3348	-62.13	-13	-49.13	-71.02	2.856	13.90	H
	1672	-62.21	-13	-49.21	-69.18	1.58	10.70	V
	2508	-55.32	-13	-42.32	-63.57	2.10	12.50	V
	3348	-62.21	-13	-49.21	-71.10	2.86	13.90	V

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

CDMA BC1(1xRTT)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-56.35	-13	-43.35	-68.61	2.641	14.90	H
	5640	-52.06	-13	-39.06	-63.92	2.94	14.80	H
	7524	-48.37	-13	-35.37	-58.14	3.39	13.16	H
	3759	-57.09	-13	-44.09	-69.35	2.64	14.90	V
	5640	-51.77	-13	-38.77	-63.63	2.94	14.80	V
	7524	-48.10	-13	-35.10	-57.87	3.39	13.16	V

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