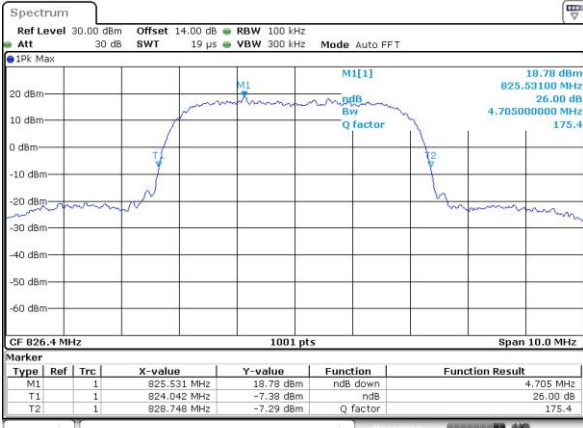




WCDMA Band V (RMC 12.2Kbps)

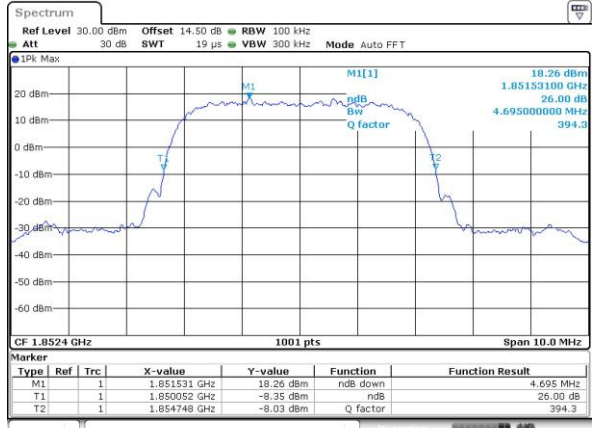
Lowest Channel



Date: 6.FEB.2025 11:44:39

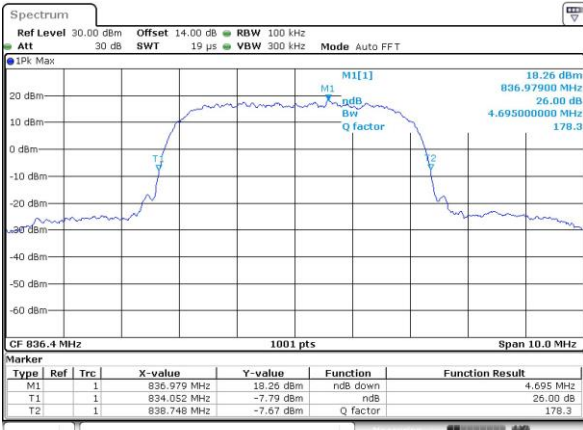
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



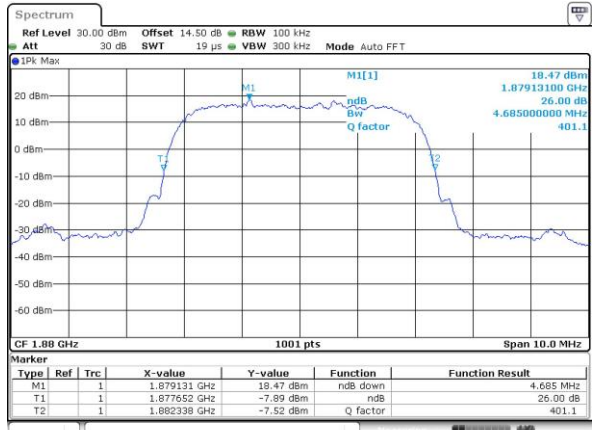
Date: 6.FEB.2025 11:26:54

Middle Channel



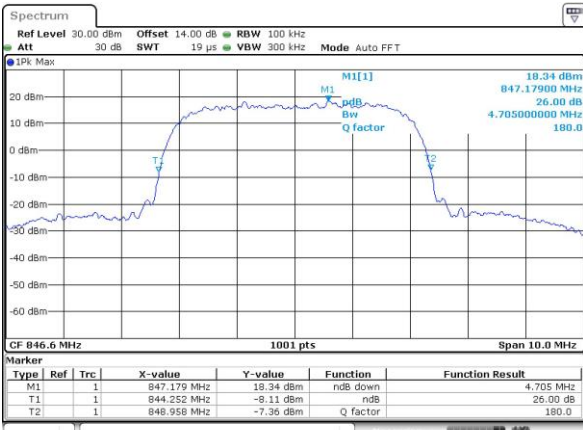
Date: 6.FEB.2025 11:47:47

Middle Channel



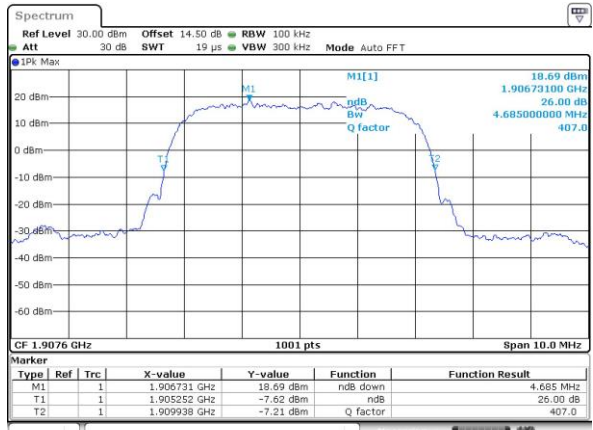
Date: 6.FEB.2025 11:31:07

Highest Channel



Date: 6.FEB.2025 11:49:53

Highest Channel

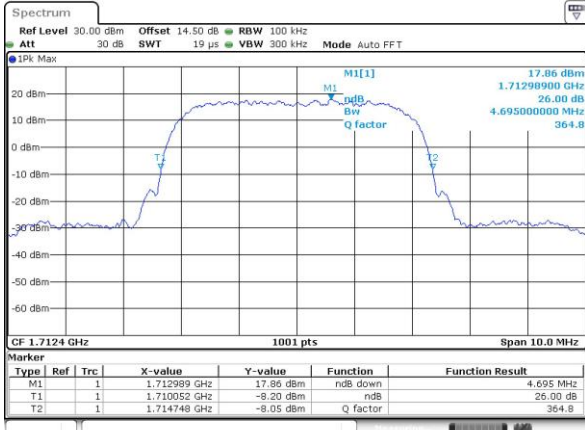


Date: 6.FEB.2025 11:32:50



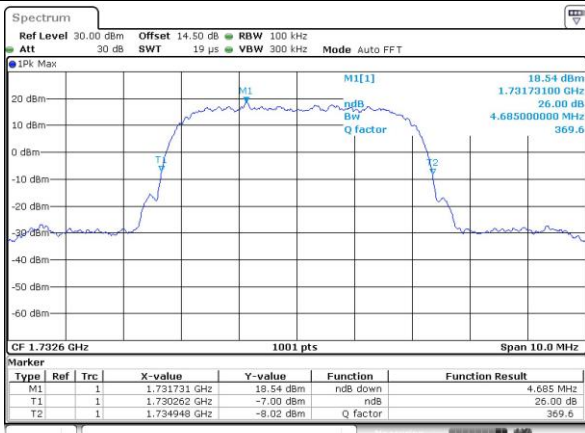
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



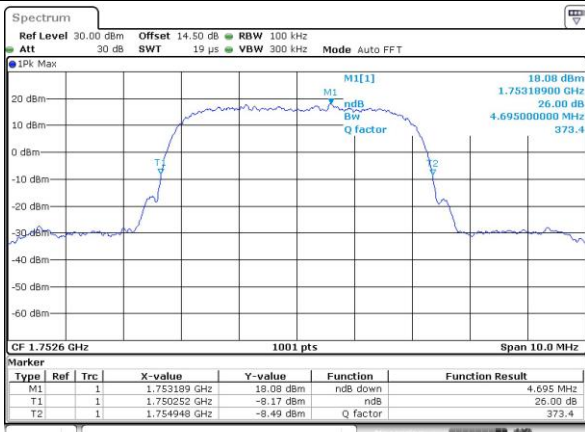
Date: 6.FEB.2025 11:36:30

Middle Channel



Date: 6.FEB.2025 11:39:01

Highest Channel

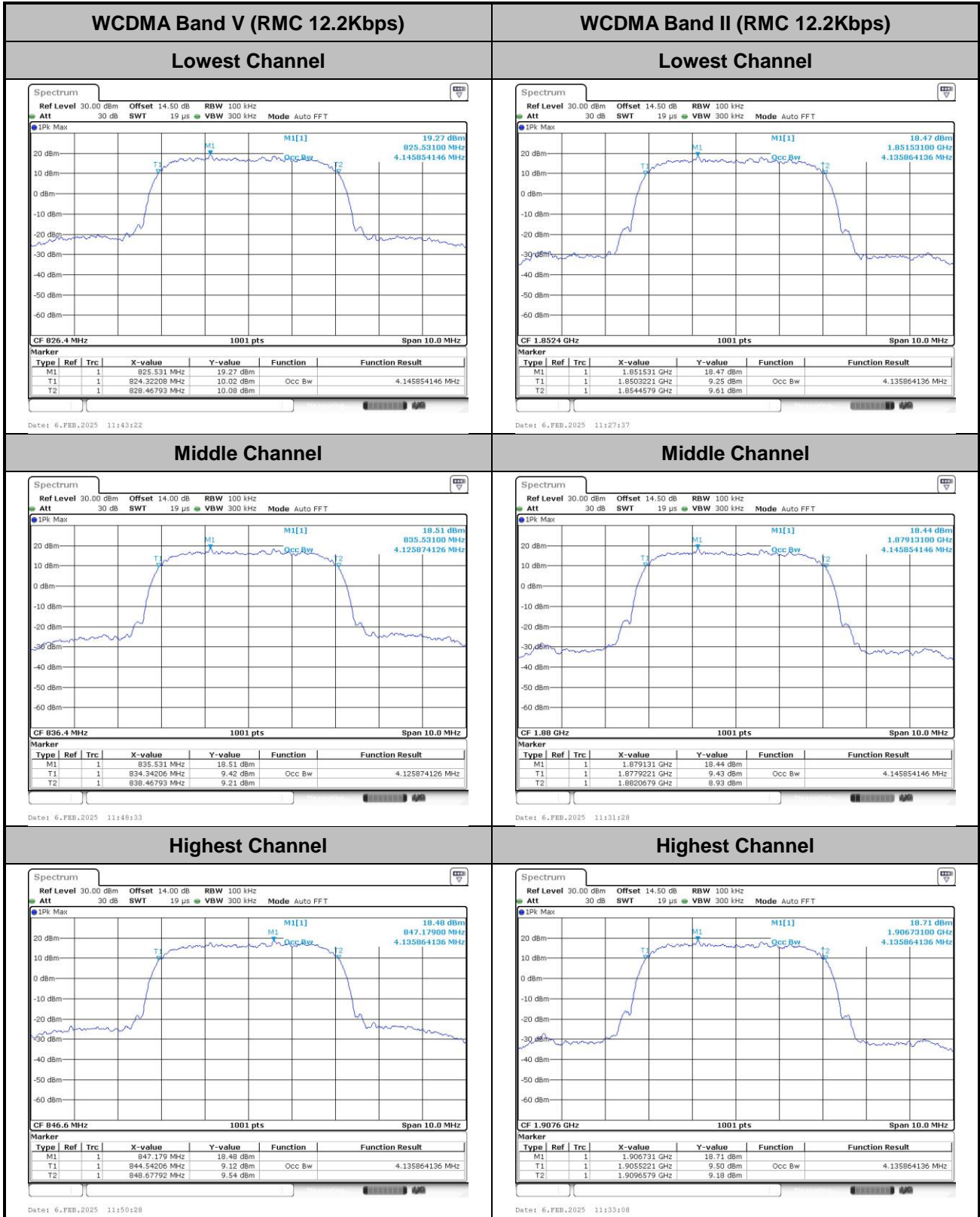


Date: 6.FEB.2025 11:40:31



Occupied Bandwidth

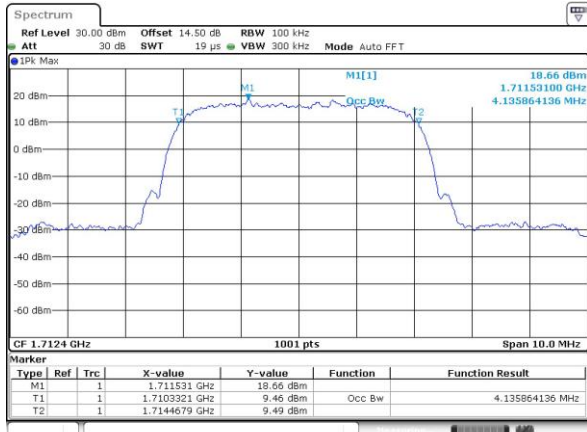
Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.15	4.14	4.14
Middle CH	4.13	4.15	4.13
Highest CH	4.14	4.14	4.14





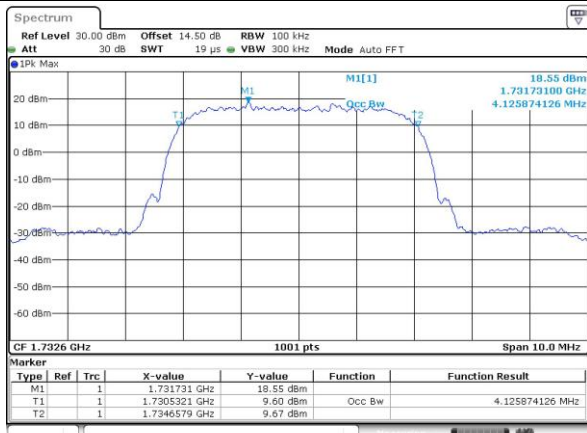
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



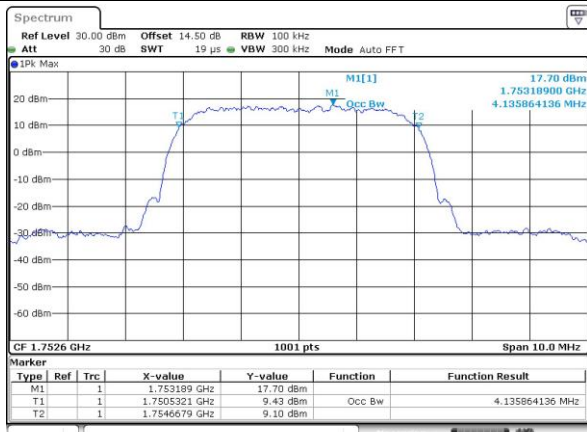
Date: 6.FEB.2025 11:36:49

Middle Channel



Date: 6.FEB.2025 11:39:21

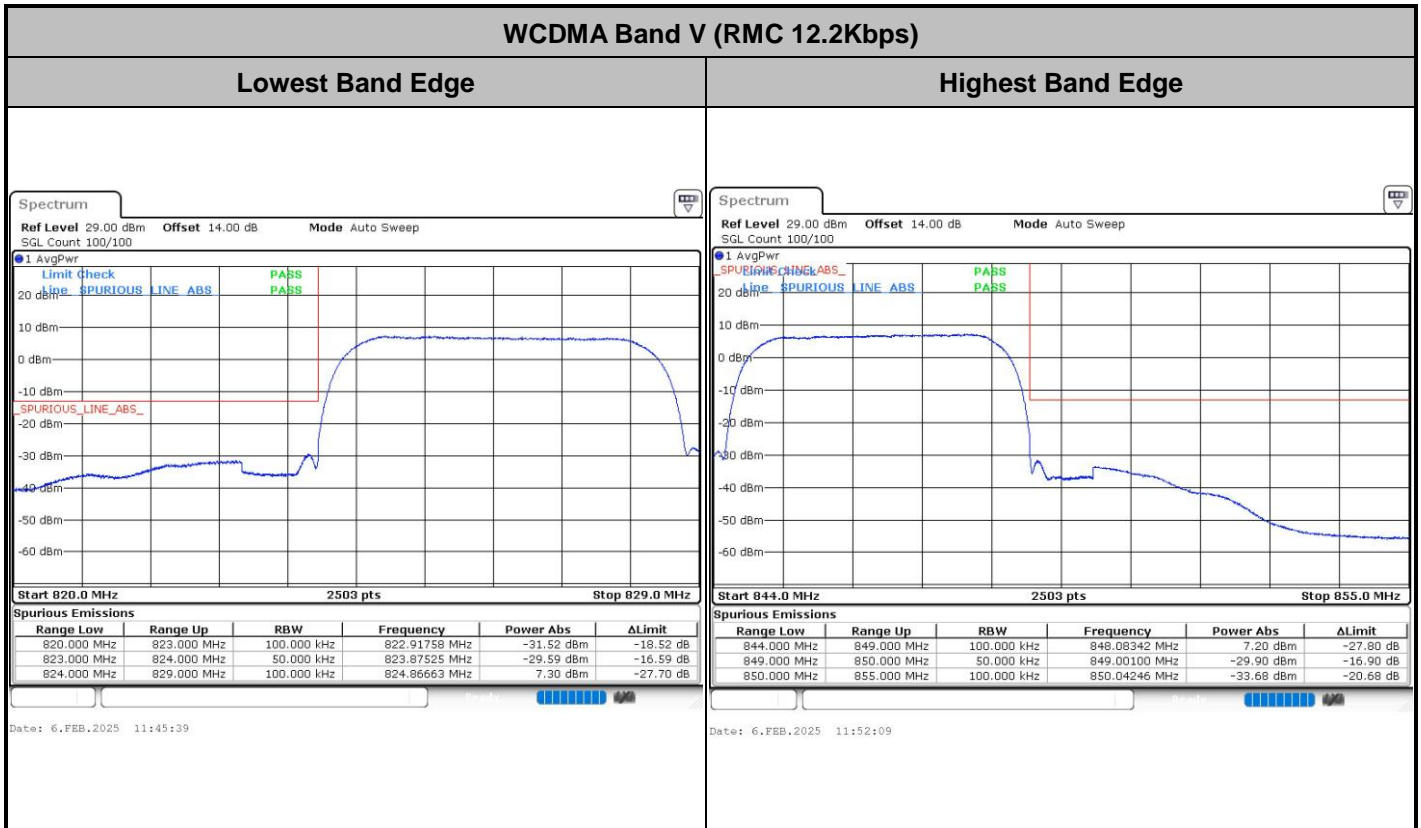
Highest Channel

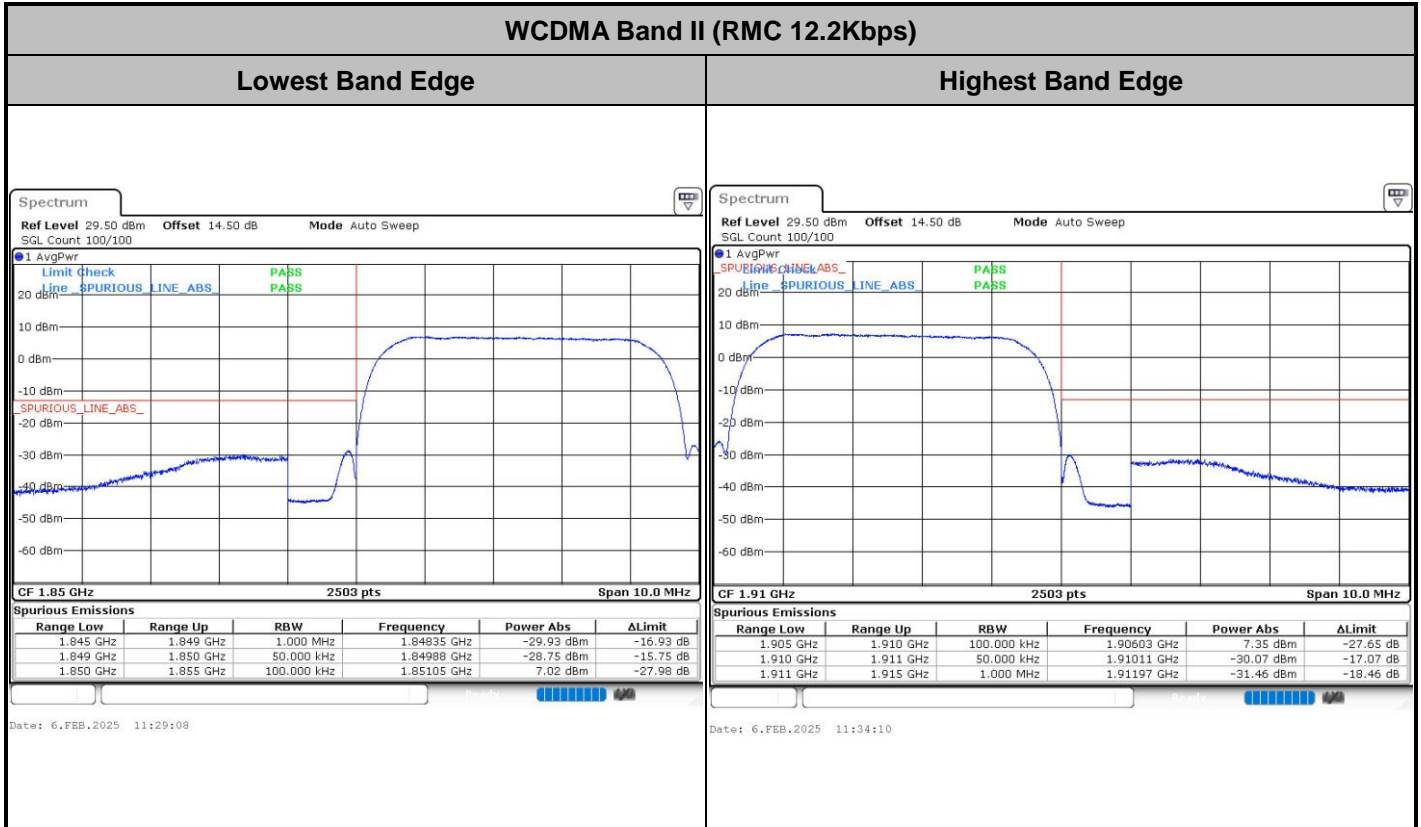


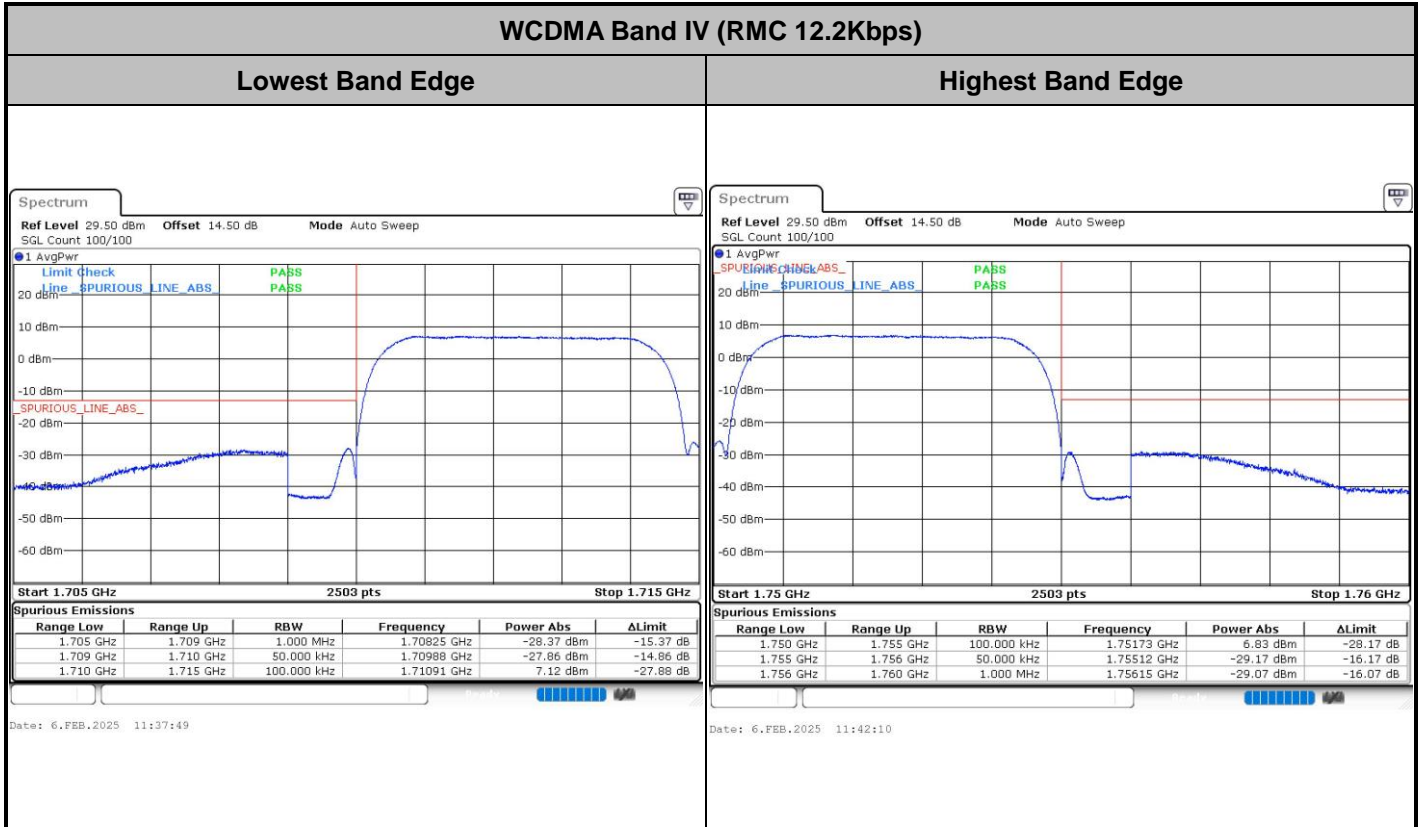
Date: 6.FEB.2025 11:40:51



Conducted Band Edge

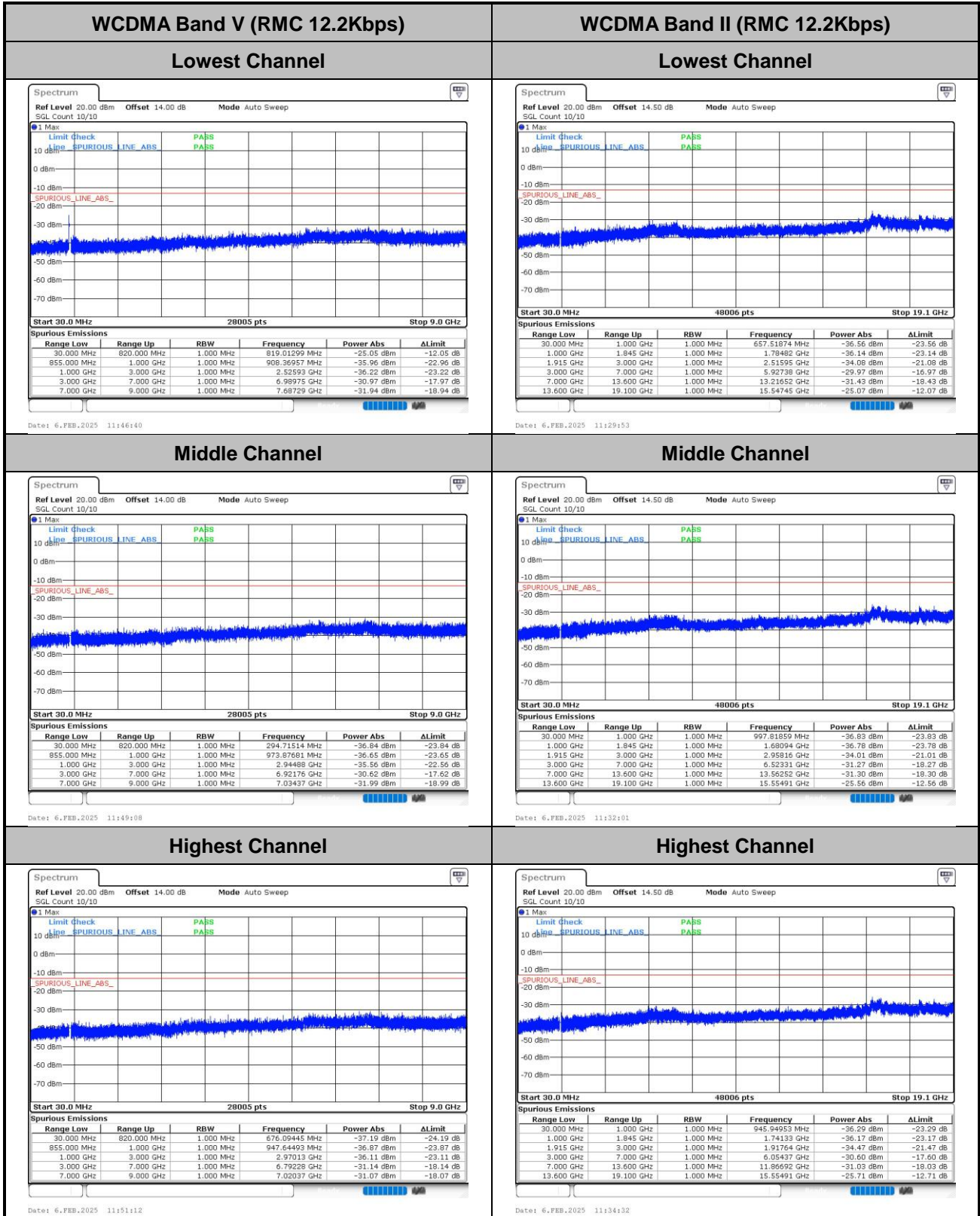








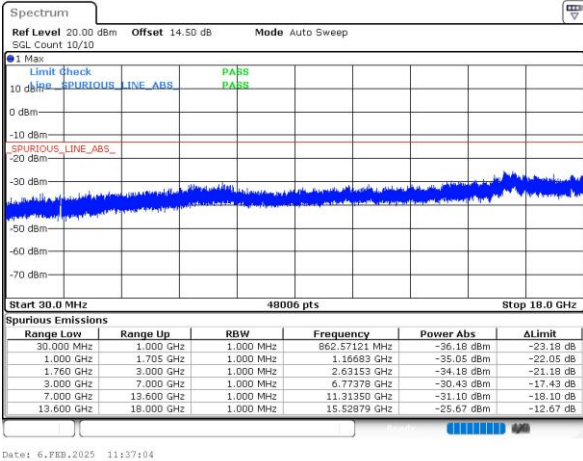
Conducted Spurious Emission



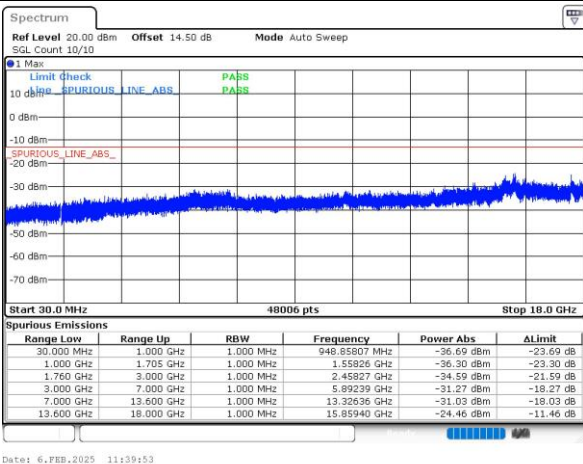


WCDMA Band IV (RMC 12.2Kbps)

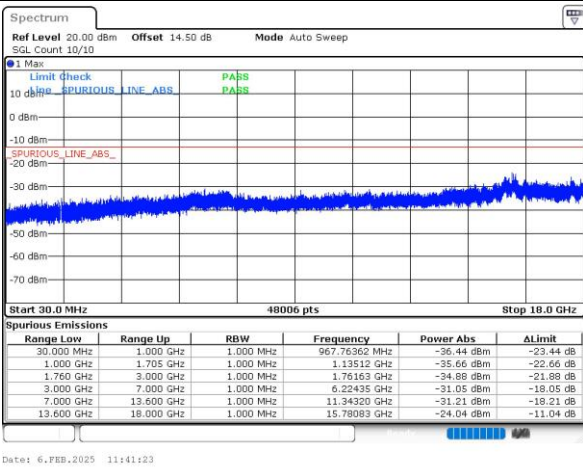
Lowest Channel



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	0.0012	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0118	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage = 3.91V. ; 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.

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	3.9	PASS
40	Normal Voltage	4.6	
30	Normal Voltage	5.9	
20(Ref.)	Normal Voltage	5.1	
10	Normal Voltage	4.4	
0	Normal Voltage	3.7	
-10	Normal Voltage	4.7	
-20	Normal Voltage	5.5	
-30	Normal Voltage	5.8	
20	Maximum Voltage	4.3	
20	Normal Voltage	5.1	
20	Battery End Point	4.2	





Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Frequency Offset (Δf) (Hz)	Result
50	Normal Voltage	4.4	PASS
40	Normal Voltage	6.2	
30	Normal Voltage	5.5	
20(Ref.)	Normal Voltage	4.1	
10	Normal Voltage	5.8	
0	Normal Voltage	4.5	
-10	Normal Voltage	6.1	
-20	Normal Voltage	7.2	
-30	Normal Voltage	4.9	
20	Maximum Voltage	5.2	
20	Normal Voltage	4.1	
20	Battery End Point	4.3	

Note:

1. Normal Voltage = 3.91V. ; 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.

$|\text{MAX}(\Delta f)| = 5.9\text{Hz}$

Frequency Stability	WCDMA Band II Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	1850.322094	$\geq 1850\text{MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	1909.657906	$\leq 1910\text{MHz}$	

$|\text{MAX}(\Delta f)| = 7.2\text{Hz}$

Frequency Stability	WCDMA Band IV Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	1710.332093	$\geq 1710\text{MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	1754.667907	$\leq 1755\text{MHz}$	



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Reid Huang	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) ANTO									
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)
Lowest	1648.4	-57.61	-13	-44.61	-63.51	-60.84	3.98	9.36	H
	2472.6	-45.49	-13	-32.49	-55.80	-49.04	4.85	10.55	H
	3296.8	-64.73	-13	-51.73	-77.13	-69.66	5.50	12.58	H
	1648.4	-58.17	-13	-45.17	-63.96	-61.40	3.98	9.36	V
	2472.6	-47.88	-13	-34.88	-58.55	-51.43	4.85	10.55	V
	3296.8	-64.31	-13	-51.31	-77.17	-69.24	5.50	12.58	V
Middle	1672.8	-52.85	-13	-39.85	-58.69	-56.10	4.00	9.40	H
	2509.2	-48.45	-13	-35.45	-58.70	-52.02	4.88	10.60	H
	3345.6	-65.15	-13	-52.15	-77.14	-70.08	5.52	12.60	H
	1672.8	-55.61	-13	-42.61	-61.17	-58.86	4.00	9.40	V
	2509.2	-52.79	-13	-39.79	-63.37	-56.36	4.88	10.60	V
	3345.6	-64.78	-13	-51.78	-77.15	-69.71	5.52	12.60	V
Highest	1697.6	-52.11	-13	-39.11	-58.06	-55.28	4.10	9.42	H
	2546.4	-48.69	-13	-35.69	-59.00	-52.27	4.90	10.63	H
	3395.2	-65.53	-13	-52.53	-77.47	-70.45	5.55	12.62	H
	1697.6	-54.42	-13	-41.42	-60.14	-57.59	4.10	9.42	V
	2546.4	-48.05	-13	-35.05	-58.70	-51.63	4.90	10.63	V
	3395.2	-64.72	-13	-51.72	-77.22	-69.64	5.55	12.62	V

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



GSM850 (EDGE 1 Tx slots) ANTO									
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)
Lowest	1648.4	-68.33	-13	-55.33	-74.23	-71.56	3.98	9.36	H
	2472.6	-65.82	-13	-52.82	-76.13	-69.37	4.85	10.55	H
	3296.8	-64.60	-13	-51.60	-77.00	-69.53	5.50	12.58	H
	1648.4	-68.66	-13	-55.66	-74.45	-71.89	3.98	9.36	V
	2472.6	-65.76	-13	-52.76	-76.43	-69.31	4.85	10.55	V
	3296.8	-64.24	-13	-51.24	-77.10	-69.17	5.50	12.58	V
Middle	1672.8	-68.89	-13	-55.89	-74.73	-72.14	4.00	9.40	H
	2509.2	-66.24	-13	-53.24	-76.49	-69.81	4.88	10.60	H
	3345.6	-65.39	-13	-52.39	-77.38	-70.32	5.52	12.60	H
	1672.8	-68.42	-13	-55.42	-73.98	-71.67	4.00	9.40	V
	2509.2	-65.31	-13	-52.31	-75.89	-68.88	4.88	10.60	V
	3345.6	-64.71	-13	-51.71	-77.08	-69.64	5.52	12.60	V
Highest	1697.6	-68.57	-13	-55.57	-74.52	-71.74	4.10	9.42	H
	2546.4	-66.23	-13	-53.23	-76.54	-69.81	4.90	10.63	H
	3395.2	-65.28	-13	-52.28	-77.22	-70.20	5.55	12.62	H
	1697.6	-68.80	-13	-55.80	-74.52	-71.97	4.10	9.42	V
	2546.4	-65.88	-13	-52.88	-76.53	-69.46	4.90	10.63	V
	3395.2	-65.01	-13	-52.01	-77.51	-69.93	5.55	12.62	V

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

GSM1900(GSM) ANTO									
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)
Lowest	3700.4	-64.94	-13	-51.94	-79.26	-71.70	5.82	12.58	H
	5550.6	-63.27	-13	-50.27	-80.65	-68.99	7.28	13.00	H
	7400.8	-57.47	-13	-44.47	-79.77	-60.63	8.32	11.48	H
	3700.4	-64.49	-13	-51.49	-79.1	-71.25	5.82	12.58	V
	5550.6	-62.84	-13	-49.84	-80.27	-68.56	7.28	13.00	V
	7400.8	-57.41	-13	-44.41	-79.76	-60.57	8.32	11.48	V
Middle	3760	-62.35	-13	-49.35	-76.75	-69.10	5.85	12.60	H
	5640	-58.49	-13	-45.49	-76.02	-64.29	7.30	13.10	H
	7520	-57.30	-13	-44.30	-79.19	-60.45	8.35	11.50	H
	3760	-63.68	-13	-50.68	-78.26	-70.43	5.85	12.60	V
	5640	-60.06	-13	-47.06	-77.48	-65.86	7.30	13.10	V
	7520	-58.42	-13	-45.42	-80.19	-61.57	8.35	11.50	V
Highest	3819.6	-64.04	-13	-51.04	-78.56	-70.78	5.88	12.62	H
	5729.4	-60.70	-13	-47.70	-78.48	-66.51	7.32	13.13	H
	7639.2	-57.62	-13	-44.62	-79.39	-60.78	8.38	11.54	H
	3819.6	-64.20	-13	-51.20	-78.8	-70.94	5.88	12.62	V
	5729.4	-60.85	-13	-47.85	-78.74	-66.66	7.32	13.13	V
	7639.2	-57.74	-13	-44.74	-79.34	-60.90	8.38	11.54	V

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



GSM1900 (EDGE 1 Tx slots) ANT0									
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)
Lowest	3700.4	-64.34	-13	-51.34	-78.66	-71.10	5.82	12.58	H
	5550.6	-63.01	-13	-50.01	-80.39	-68.73	7.28	13.00	H
	7400.8	-57.37	-13	-44.37	-79.67	-60.53	8.32	11.48	H
	3700.4	-64.54	-13	-51.54	-79.15	-71.30	5.82	12.58	V
	5550.6	-63.16	-13	-50.16	-80.59	-68.88	7.28	13.00	V
	7400.8	-57.67	-13	-44.67	-80.02	-60.83	8.32	11.48	V
Middle	3760	-62.39	-13	-49.39	-76.79	-69.14	5.85	12.60	H
	5640	-61.85	-13	-48.85	-79.38	-67.65	7.30	13.10	H
	7520	-57.26	-13	-44.26	-79.15	-60.41	8.35	11.50	H
	3760	-63.80	-13	-50.80	-78.38	-70.55	5.85	12.60	V
	5640	-61.99	-13	-48.99	-79.41	-67.79	7.30	13.10	V
	7520	-57.48	-13	-44.48	-79.25	-60.63	8.35	11.50	V
Highest	3819.6	-64.33	-13	-51.33	-78.85	-71.07	5.88	12.62	H
	5729.4	-61.96	-13	-48.96	-79.74	-67.77	7.32	13.13	H
	7639.2	-57.34	-13	-44.34	-79.11	-60.50	8.38	11.54	H
	3819.6	-63.93	-13	-50.93	-78.53	-70.67	5.88	12.62	V
	5729.4	-61.97	-13	-48.97	-79.86	-67.78	7.32	13.13	V
	7639.2	-57.57	-13	-44.57	-79.17	-60.73	8.38	11.54	V

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

WCDMA Band V(RMC 12.2Kbps) ANT0									
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)
Lowest	1652.8	-68.59	-13	-55.59	-74.47	-71.82	3.98	9.36	H
	2479.2	-64.38	-13	-51.38	-74.67	-67.93	4.85	10.55	H
	3305.6	-64.74	-13	-51.74	-77.07	-69.67	5.50	12.58	H
	1652.8	-68.34	-13	-55.34	-74.09	-71.57	3.98	9.36	V
	2479.2	-63.53	-13	-50.53	-74.17	-67.08	4.85	10.55	V
	3305.6	-64.11	-13	-51.11	-76.89	-69.04	5.50	12.58	V
Middle	1672.8	-68.67	-13	-55.67	-74.51	-71.92	4.00	9.40	H
	2509.2	-64.25	-13	-51.25	-74.50	-67.82	4.88	10.60	H
	3345.6	-65.43	-13	-52.43	-77.42	-70.36	5.52	12.60	H
	1672.8	-68.84	-13	-55.84	-74.40	-72.09	4.00	9.40	V
	2509.2	-63.34	-13	-50.34	-73.92	-66.91	4.88	10.60	V
	3345.6	-65.08	-13	-52.08	-77.45	-70.01	5.52	12.60	V
Highest	1693.2	-67.33	-13	-54.33	-73.26	-70.50	4.10	9.42	H
	2539.8	-64.77	-13	-51.77	-75.06	-68.35	4.90	10.63	H
	3386.4	-65.78	-13	-52.78	-77.73	-70.70	5.55	12.62	H
	1693.2	-67.29	-13	-54.29	-72.99	-70.46	4.10	9.42	V
	2539.8	-65.01	-13	-52.01	-75.64	-68.59	4.90	10.63	V
	3386.4	-65.05	-13	-52.05	-77.52	-69.97	5.55	12.62	V

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



WCDMA Band II(RMC 12.2Kbps) ANTO									
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)
Lowest	3704.8	-63.96	-13	-50.96	-78.28	-70.72	5.82	12.58	H
	5557.2	-61.90	-13	-48.90	-79.29	-67.62	7.28	13.00	H
	7409.6	-56.74	-13	-43.74	-78.99	-59.90	8.32	11.48	H
	3704.8	-63.52	-13	-50.52	-78.13	-70.28	5.82	12.58	V
	5557.2	-62.47	-13	-49.47	-79.89	-68.19	7.28	13.00	V
	7409.6	-56.79	-13	-43.79	-79.08	-59.95	8.32	11.48	V
Middle	3760	-63.82	-13	-50.82	-78.22	-70.57	5.85	12.60	H
	5640	-61.44	-13	-48.44	-78.97	-67.24	7.30	13.10	H
	7520	-56.63	-13	-43.63	-78.52	-59.78	8.35	11.50	H
	3760	-63.63	-13	-50.63	-78.21	-70.38	5.85	12.60	V
	5640	-61.79	-13	-48.79	-79.21	-67.59	7.30	13.10	V
	7520	-57.14	-13	-44.14	-78.91	-60.29	8.35	11.50	V
Highest	3815.2	-63.97	-13	-50.97	-78.47	-70.71	5.88	12.62	H
	5722.8	-62.19	-13	-49.19	-79.95	-68.00	7.32	13.13	H
	7630.4	-57.55	-13	-44.55	-79.30	-60.71	8.38	11.54	H
	3815.2	-63.86	-13	-50.86	-78.45	-70.60	5.88	12.62	V
	5722.8	-61.83	-13	-48.83	-79.68	-67.64	7.32	13.13	V
	7630.4	-57.44	-13	-44.44	-79	-60.60	8.38	11.54	V

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

WCDMA Band IV(RMC 12.2Kbps) ANTO									
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)
Lowest	3424.8	-65.06	-13	-52.06	-77.28	-71.94	5.60	12.48	H
	5137.2	-62.09	-13	-49.09	-79.49	-67.77	7.10	12.78	H
	6849.6	-59.76	-13	-46.76	-79.74	-63.15	8.38	11.77	H
	3424.8	-64.29	-13	-51.29	-77.07	-71.17	5.60	12.48	V
	5137.2	-62.24	-13	-49.24	-79.58	-67.92	7.10	12.78	V
	6849.6	-59.81	-13	-46.81	-79.56	-63.20	8.38	11.77	V
Middle	3465.2	-64.91	-13	-51.91	-77.57	-71.76	5.65	12.50	H
	5197.8	-62.53	-13	-49.53	-79.99	-68.20	7.13	12.80	H
	6930.4	-59.60	-13	-46.60	-79.95	-63.00	8.40	11.80	H
	3465.2	-64.43	-13	-51.43	-77.63	-71.28	5.65	12.50	V
	5197.8	-62.38	-13	-49.38	-79.79	-68.05	7.13	12.80	V
	6930.4	-59.67	-13	-46.67	-80.03	-63.07	8.40	11.80	V
Highest	3505.2	-64.56	-13	-51.56	-77.66	-71.40	5.68	12.52	H
	5257.8	-63.15	-13	-50.15	-80.02	-68.82	7.15	12.82	H
	7010.4	-57.83	-13	-44.83	-78.55	-61.26	8.42	11.85	H
	3505.2	-64.08	-13	-51.08	-77.72	-70.92	5.68	12.52	V
	5257.8	-62.96	-13	-49.96	-79.79	-68.63	7.15	12.82	V
	7010.4	-58.49	-13	-45.49	-79.41	-61.92	8.42	11.85	V

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