

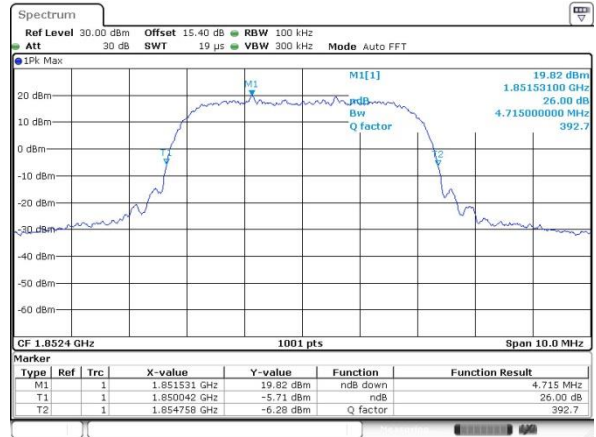
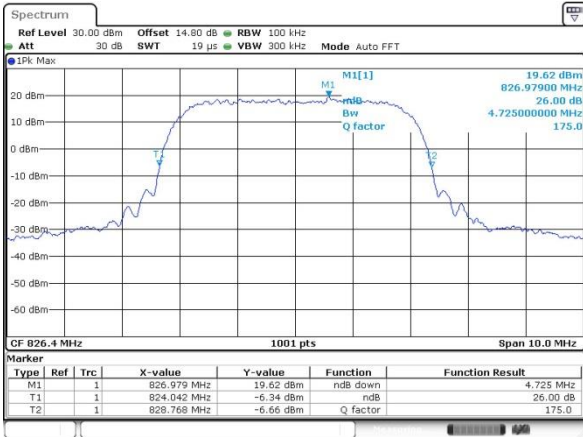


WCDMA Band V (RMC 12.2Kbps)

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

Lowest Channel

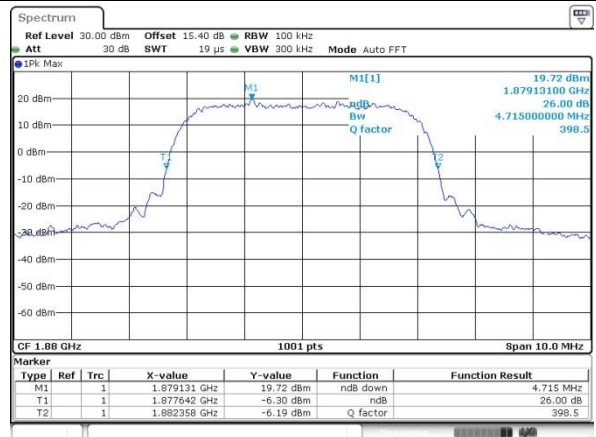
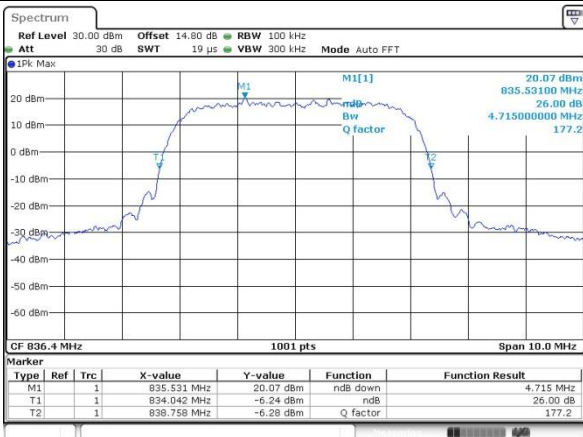


Date: 15\_DEC.2022 20:32:30

Date: 15\_DEC.2022 21:06:12

Middle Channel

Middle Channel

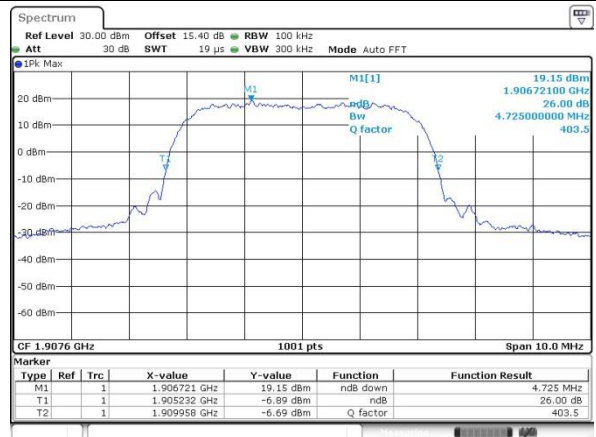
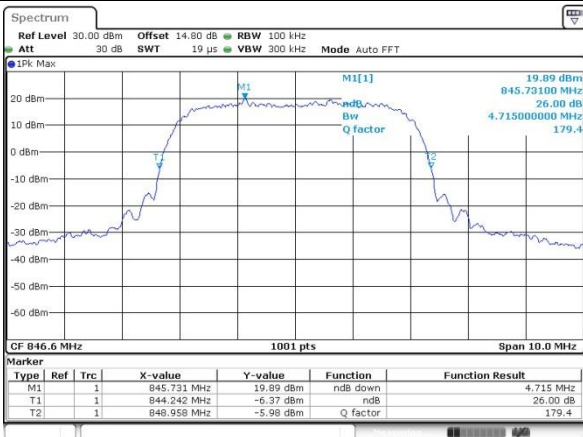


Date: 15\_DEC.2022 20:32:30

Date: 15\_DEC.2022 21:06:41

Highest Channel

Highest Channel



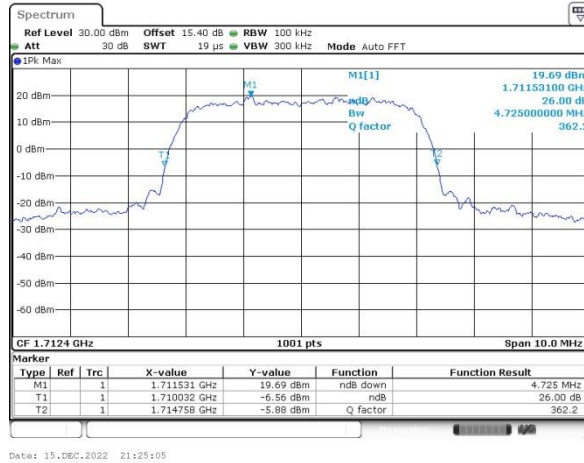
Date: 15\_DEC.2022 20:33:17

Date: 15\_DEC.2022 21:07:04

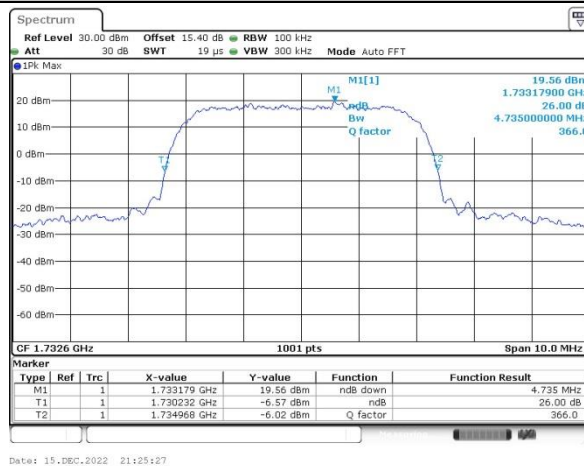


### WCDMA Band IV (RMC 12.2Kbps)

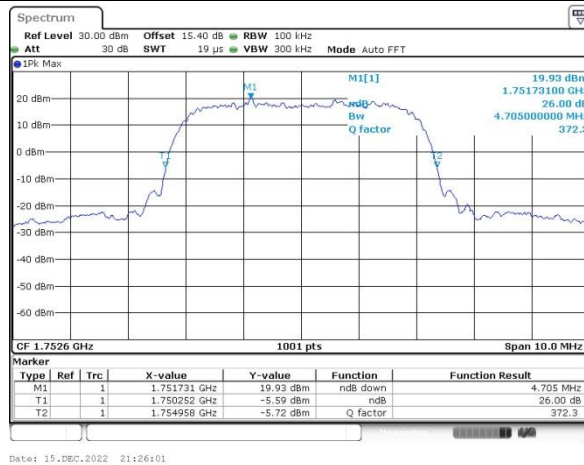
#### Lowest Channel



#### Middle Channel



#### Highest Channel





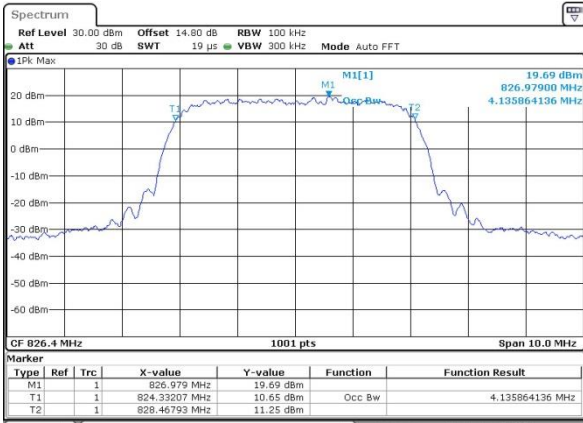
### Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.136	4.136	4.156
Middle CH	4.136	4.136	4.166
Highest CH	4.136	4.166	4.136



WCDMA Band V (RMC 12.2Kbps)

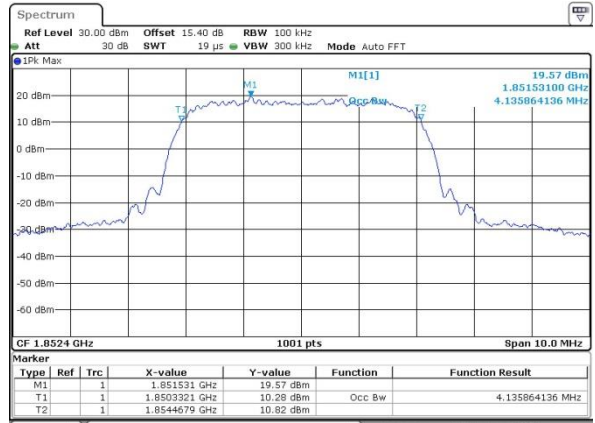
Lowest Channel



Date: 15\_DEC.2022 20:33:47

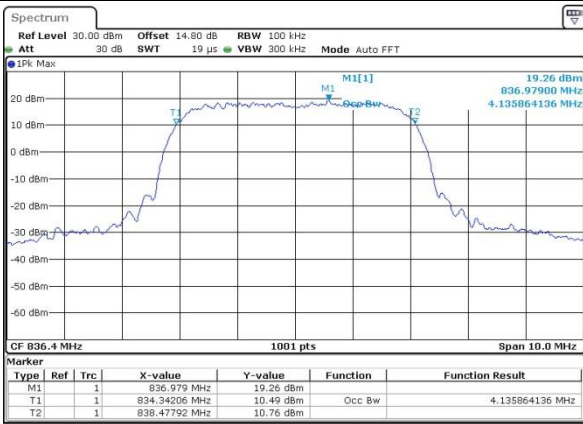
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



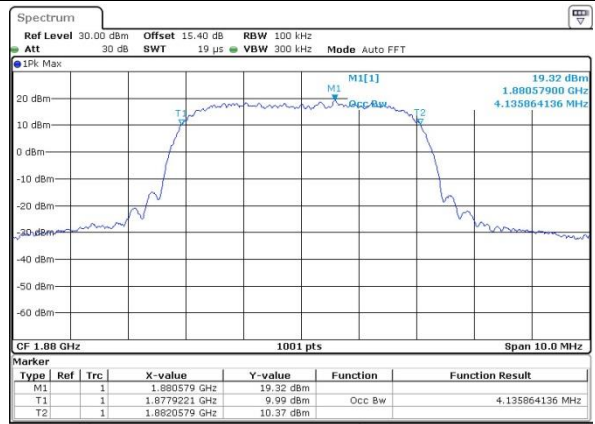
Date: 15\_DEC.2022 21:07:46

Middle Channel



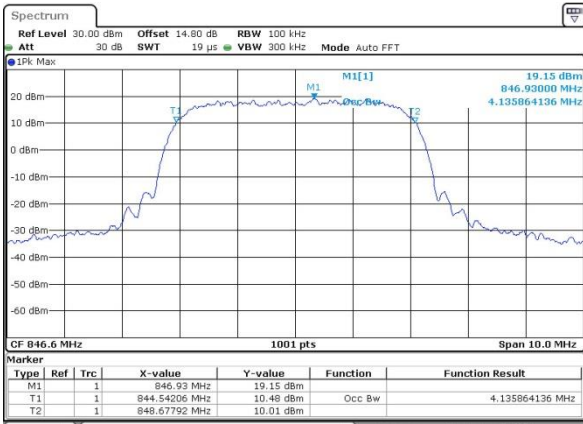
Date: 15\_DEC.2022 20:34:10

Middle Channel



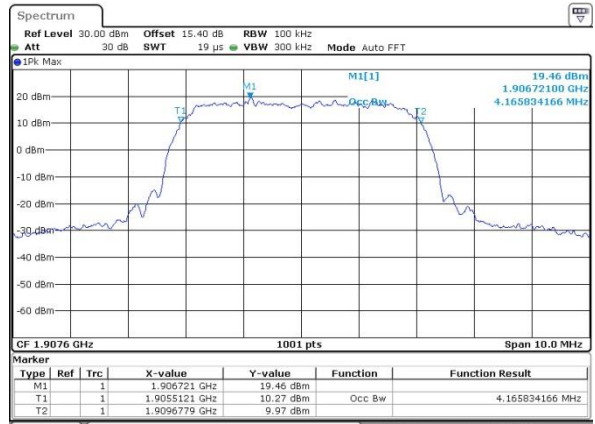
Date: 15\_DEC.2022 21:08:09

Highest Channel



Date: 15\_DEC.2022 20:34:32

Highest Channel

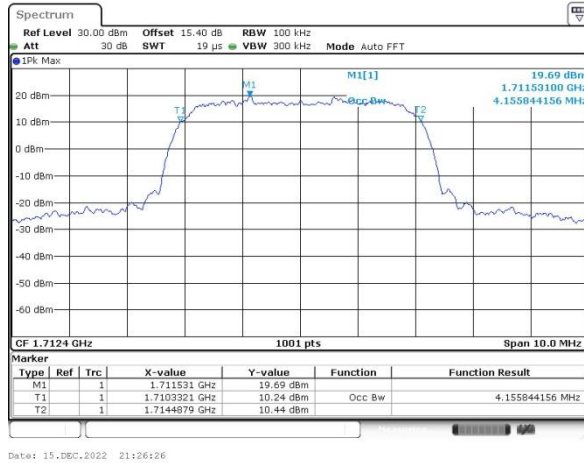


Date: 15\_DEC.2022 21:08:32



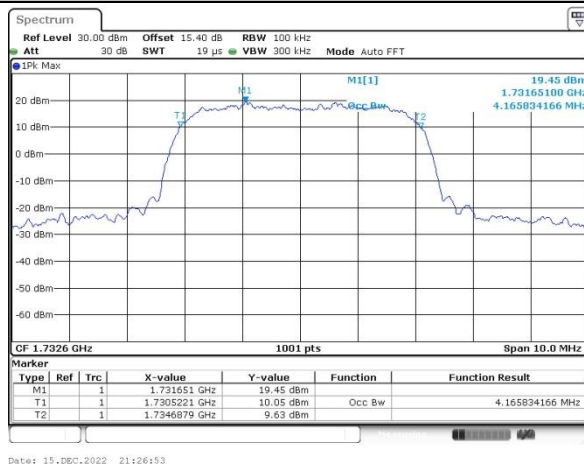
### WCDMA Band IV (RMC 12.2Kbps)

#### Lowest Channel



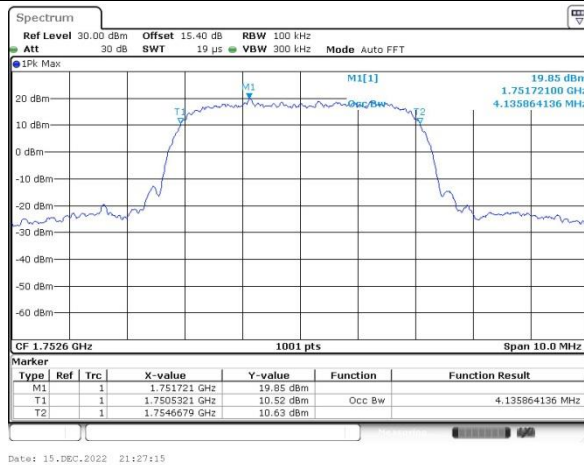
Date: 15.DEC.2022 21:26:26

#### Middle Channel



Date: 15.DEC.2022 21:26:53

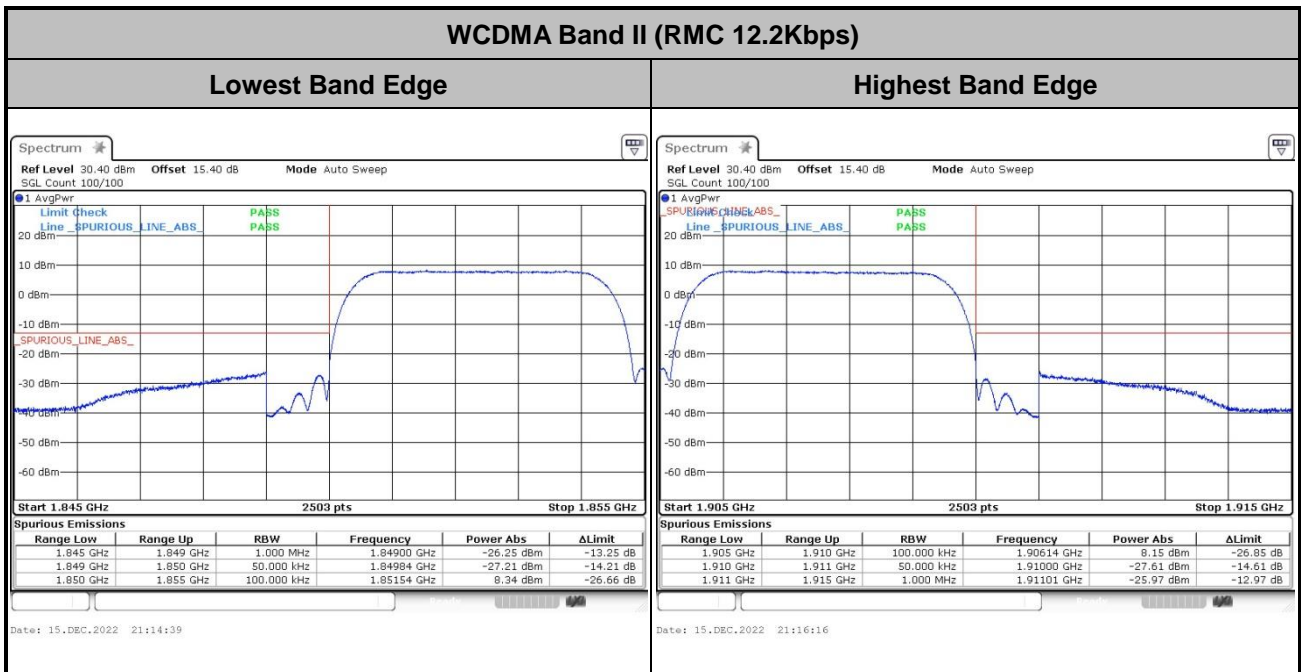
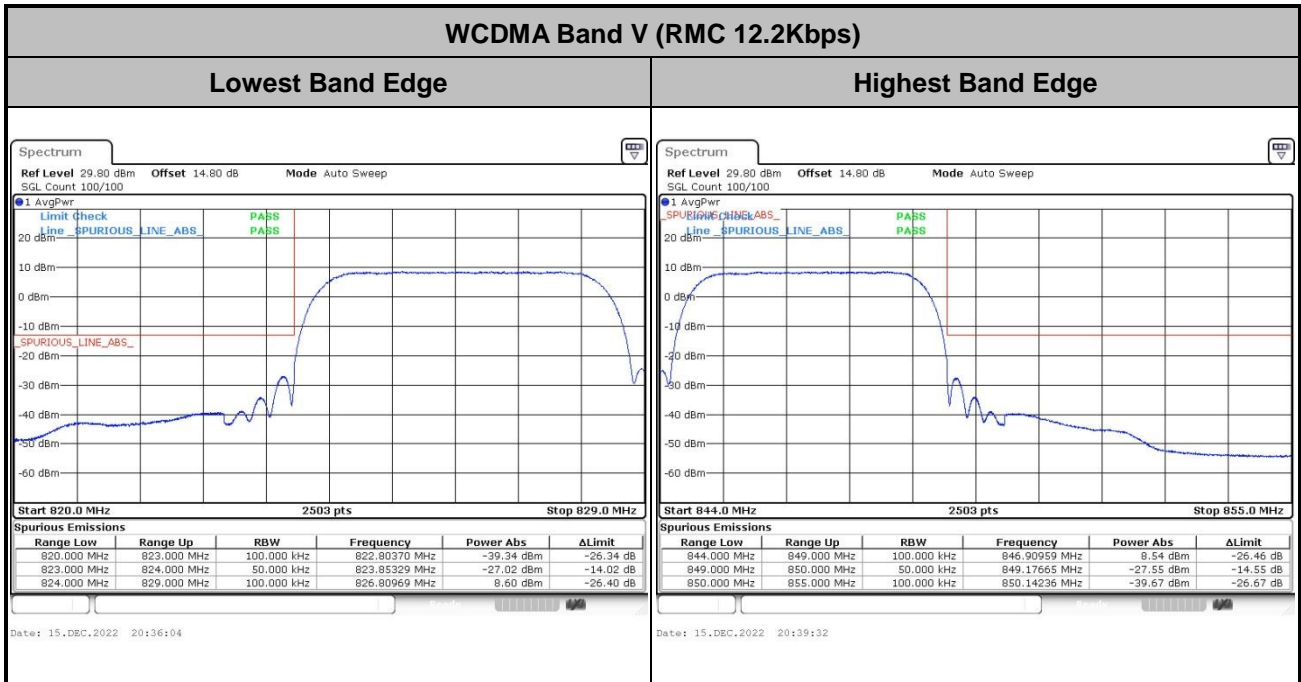
#### Highest Channel

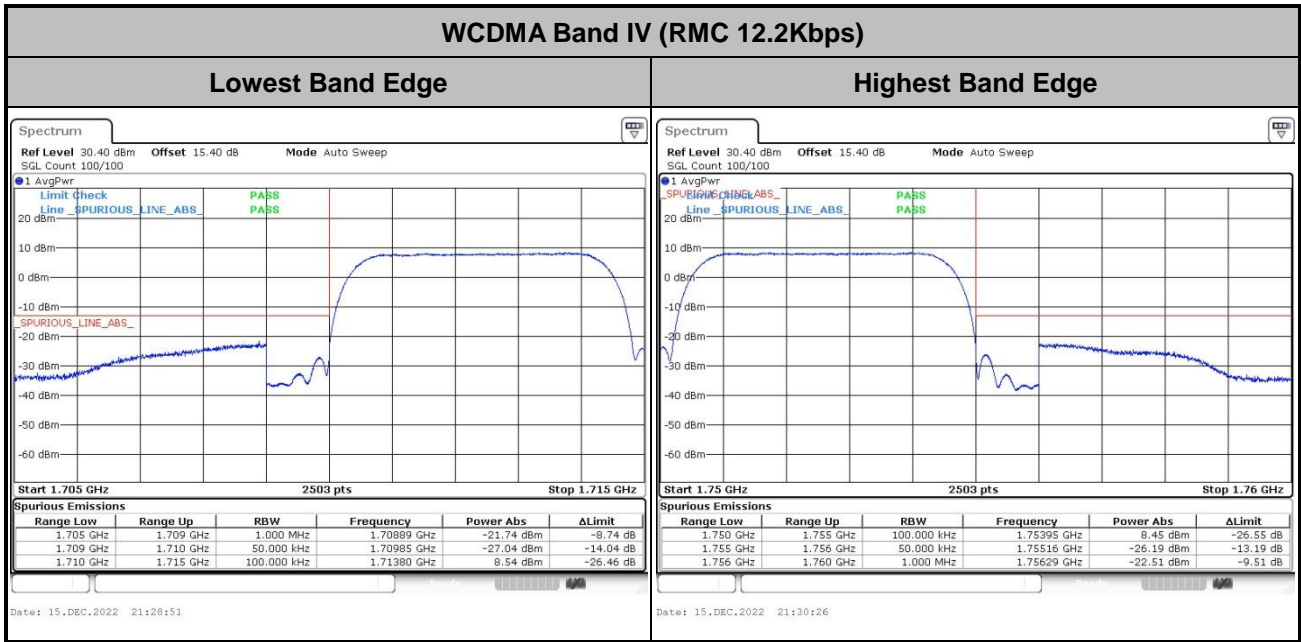


Date: 15.DEC.2022 21:27:15



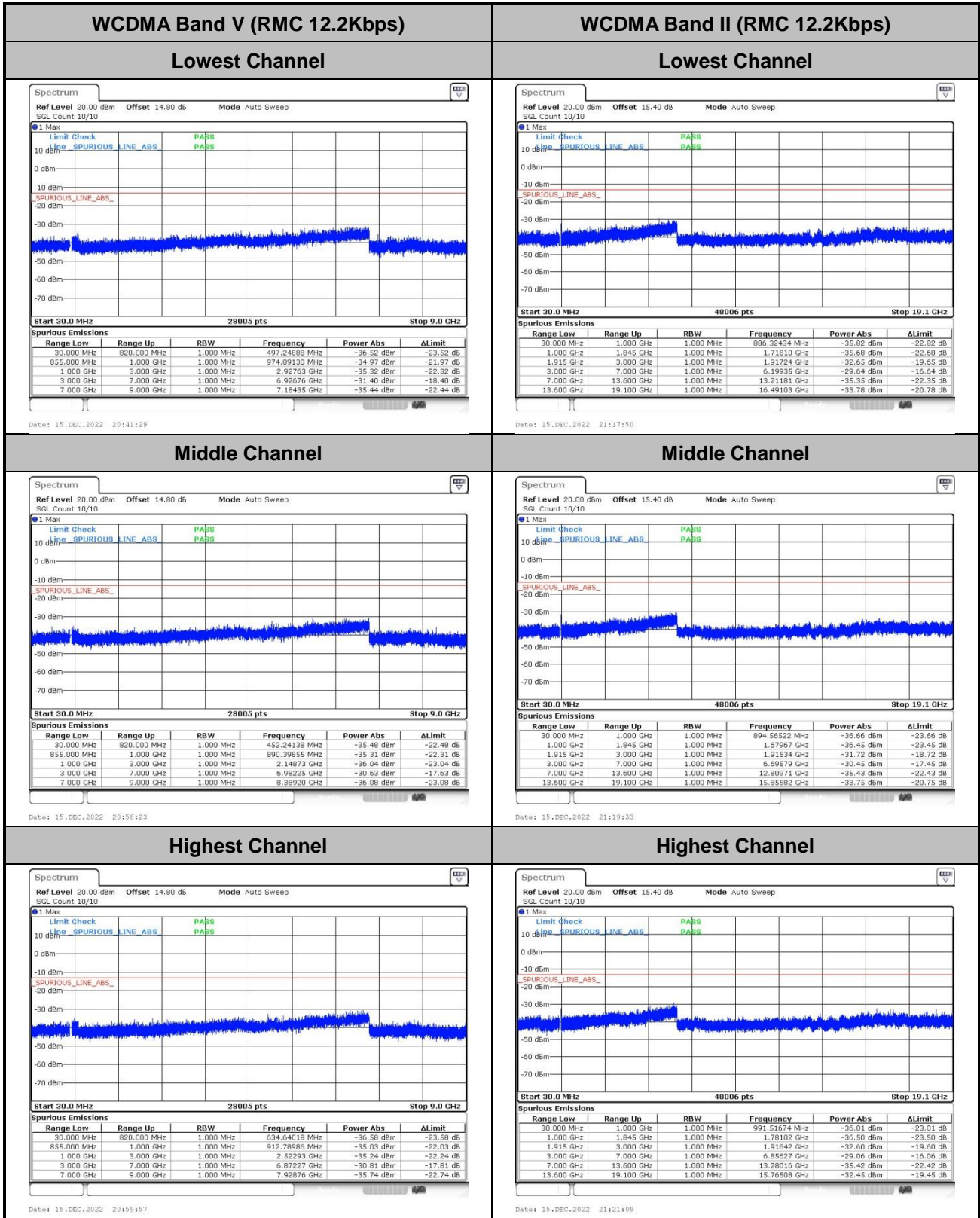
# Conducted Band Edge







# Conducted Spurious Emission

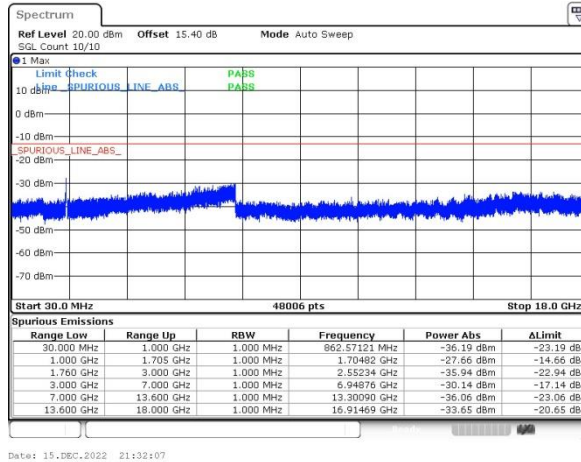






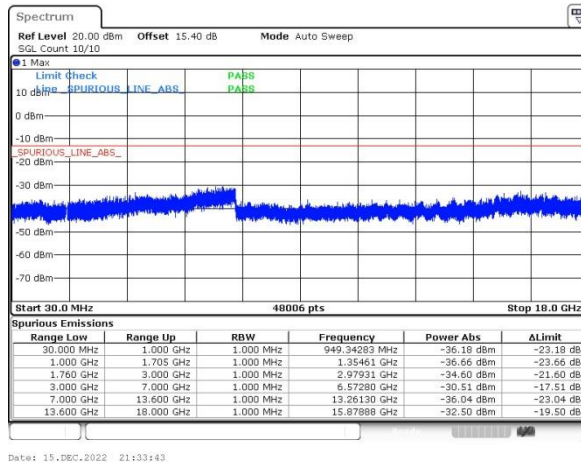
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



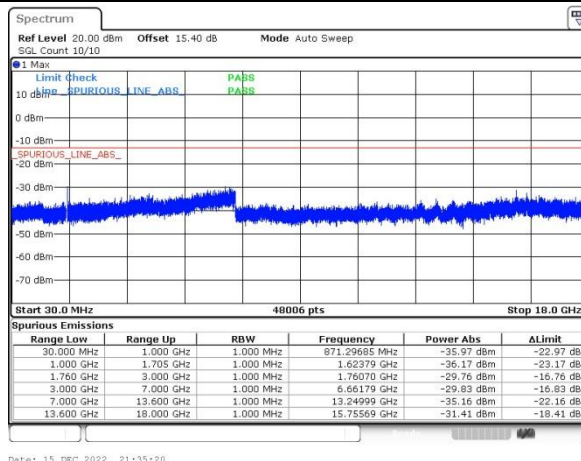
Date: 15. DEC. 2022 21:32:07

Middle Channel



Date: 15. DEC. 2022 21:33:43

Highest Channel



Date: 15. DEC. 2022 21:35:20



### 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	0.0058	PASS
40	Normal Voltage	0.0377	
30	Normal Voltage	0.0485	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0344	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0141	
-30	Normal Voltage	0.0325	
20	Maximum Voltage	0.0418	
20	Normal Voltage	0.0176	
20	Battery End Point	0.0063	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0169	PASS
40	Normal Voltage	0.0136	
30	Normal Voltage	0.0144	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0155	
0	Normal Voltage	0.0136	
-10	Normal Voltage	0.0247	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0169	
20	Maximum Voltage	0.0162	
20	Normal Voltage	0.0128	
20	Battery End Point	0.0019	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0146	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0172	
-20	Normal Voltage	0.0163	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0118	

**Note:**

1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.51V
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 :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

RSE pretest with Ant.0 & Ant.4, only the worst Antennas are shown in the report.

GSM850 (GSM) / Ant.0								
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)
Lowest	1648	-60.91	-13	-47.91	-67.88	1.58	10.70	H
	2472	-54.94	-13	-41.94	-63.19	2.102	12.50	H
	3296	-61.58	-13	-48.58	-70.47	2.856	13.90	H
	1648	-64.50	-13	-51.50	-71.47	1.58	10.70	V
	2472	-50.53	-13	-37.53	-58.78	2.10	12.50	V
	3296	-61.33	-13	-48.33	-70.22	2.86	13.90	V
Middle	1672	-57.78	-13	-44.78	-64.75	1.58	10.70	H
	2512	-56.32	-13	-43.32	-64.57	2.102	12.50	H
	3344	-61.53	-13	-48.53	-70.42	2.856	13.90	H
	1672	-62.91	-13	-49.91	-69.88	1.58	10.70	V
	2512	-53.14	-13	-40.14	-61.39	2.10	12.50	V
	3344	-61.69	-13	-48.69	-70.58	2.86	13.90	V
Highest	1696	-60.56	-13	-47.56	-67.53	1.58	10.70	H
	2544	-56.82	-13	-43.82	-65.07	2.102	12.50	H
	3392	-61.50	-13	-48.50	-70.39	2.856	13.90	H
	1696	-63.84	-13	-50.84	-70.81	1.58	10.70	V
	2544	-53.68	-13	-40.68	-61.93	2.10	12.50	V
	3392	-61.82	-13	-48.82	-70.71	2.86	13.90	V

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



EDGE 850 / Ant.0								
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)
Lowest	1648	-61.33	-13	-48.33	-68.30	1.58	10.70	H
	2472	-56.74	-13	-43.74	-64.99	2.102	12.50	H
	3296	-59.31	-13	-46.31	-68.20	2.856	13.90	H
	1648	-62.25	-13	-49.25	-69.22	1.58	10.70	V
	2472	-51.57	-13	-38.57	-59.82	2.10	12.50	V
	3296	-60.51	-13	-47.51	-69.40	2.86	13.90	V
Middle	1672	-58.38	-13	-45.38	-65.35	1.58	10.70	H
	2512	-55.35	-13	-42.35	-63.60	2.102	12.50	H
	3344	-62.69	-13	-49.69	-71.58	2.856	13.90	H
	1672	-61.65	-13	-48.65	-68.62	1.58	10.70	V
	2512	-55.48	-13	-42.48	-63.73	2.10	12.50	V
	3344	-60.31	-13	-47.31	-69.20	2.86	13.90	V
Highest	1696	-62.81	-13	-49.81	-69.78	1.58	10.70	H
	2544	-55.03	-13	-42.03	-63.28	2.102	12.50	H
	3392	-60.65	-13	-47.65	-69.54	2.856	13.90	H
	1696	-62.54	-13	-49.54	-69.51	1.58	10.70	V
	2544	-55.57	-13	-42.57	-63.82	2.10	12.50	V
	3392	-60.31	-13	-47.31	-69.20	2.86	13.90	V

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



GSM1900 (GSM) / Ant.0								
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)
Lowest	3705	-47.52	-13	-34.52	-59.78	2.64	14.90	H
	5550	-57.14	-13	-44.14	-69.00	2.94	14.80	H
	7395	-54.51	-13	-41.51	-64.28	3.39	13.16	H
	3705	-53.09	-13	-40.09	-65.35	2.64	14.90	V
	5550	-57.56	-13	-44.56	-69.42	2.94	14.80	V
	7395	-54.36	-13	-41.36	-64.13	3.39	13.16	V
Middle	3765	-47.39	-13	-34.39	-59.65	2.64	14.90	H
	5640	-55.56	-13	-42.56	-67.42	2.94	14.80	H
	7515	-53.03	-13	-40.03	-62.80	3.39	13.16	H
	3765	-51.39	-13	-38.39	-63.65	2.64	14.90	V
	5640	-56.89	-13	-43.89	-68.75	2.94	14.80	V
	7515	-53.77	-13	-40.77	-63.54	3.39	13.16	V
Highest	3819	-58.28	-13	-45.28	-70.54	2.64	14.90	H
	5730	-56.07	-13	-43.07	-67.93	2.94	14.80	H
	7644	-53.38	-13	-40.38	-63.15	3.39	13.16	H
	3819	-58.19	-13	-45.19	-70.45	2.64	14.90	V
	5730	-56.28	-13	-43.28	-68.14	2.94	14.80	V
	7644	-53.53	-13	-40.53	-63.30	3.39	13.16	V

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



EDGE 1900 / Ant.0								
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)
Lowest	3699	-57.93	-13	-44.93	-70.19	2.64	14.90	H
	5550	-56.95	-13	-43.95	-68.81	2.94	14.80	H
	7404	-53.88	-13	-40.88	-63.65	3.39	13.16	H
	3699	-57.94	-13	-44.94	-70.20	2.64	14.90	V
	5550	-57.15	-13	-44.15	-69.01	2.94	14.80	V
	7404	-54.26	-13	-41.26	-64.03	3.39	13.16	V
Middle	3759	-58.27	-13	-45.27	-70.53	2.64	14.90	H
	5640	-55.75	-13	-42.75	-67.61	2.94	14.80	H
	7524	-53.57	-13	-40.57	-63.34	3.39	13.16	H
	3759	-57.89	-13	-44.89	-70.15	2.64	14.90	V
	5640	-56.71	-13	-43.71	-68.57	2.94	14.80	V
	7524	-53.27	-13	-40.27	-63.04	3.39	13.16	V
Highest	3819	-57.83	-13	-44.83	-70.09	2.64	14.90	H
	5730	-55.94	-13	-42.94	-67.80	2.94	14.80	H
	7644	-52.69	-13	-39.69	-62.46	3.39	13.16	H
	3819	-57.59	-13	-44.59	-69.85	2.64	14.90	V
	5730	-56.35	-13	-43.35	-68.21	2.94	14.80	V
	7644	-52.94	-13	-39.94	-62.71	3.39	13.16	V

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



WCDMA Band V / Ant.0								
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)
Lowest	1656	-65.66	-13	-52.66	-72.63	1.58	10.70	H
	2480	-61.77	-13	-48.77	-70.02	2.102	12.50	H
	3304	-61.55	-13	-48.55	-70.44	2.856	13.90	H
	1656	-65.00	-13	-52.00	-71.97	1.58	10.70	V
	2480	-59.88	-13	-46.88	-68.13	2.10	12.50	V
	3304	-61.28	-13	-48.28	-70.17	2.86	13.90	V
Middle	1672	-65.33	-13	-52.33	-72.30	1.58	10.70	H
	2512	-60.95	-13	-47.95	-69.20	2.102	12.50	H
	3344	-61.54	-13	-48.54	-70.43	2.856	13.90	H
	1672	-63.78	-13	-50.78	-70.75	1.58	10.70	V
	2512	-60.56	-13	-47.56	-68.81	2.10	12.50	V
	3344	-61.32	-13	-48.32	-70.21	2.86	13.90	V
Highest	1696	-65.11	-13	-52.11	-72.08	1.58	10.70	H
	2536	-61.16	-13	-48.16	-69.41	2.102	12.50	H
	3384	-61.38	-13	-48.38	-70.27	2.856	13.90	H
	1696	-63.84	-13	-50.84	-70.81	1.58	10.70	V
	2536	-60.14	-13	-47.14	-68.39	2.10	12.50	V
	3384	-61.44	-13	-48.44	-70.33	2.86	13.90	V

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





WCDMA Band II / Ant.0								
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)
Lowest	3705	-57.98	-13	-44.98	-70.24	2.64	14.90	H
	5556	-57.14	-13	-44.14	-69.00	2.94	14.80	H
	7404	-54.32	-13	-41.32	-64.09	3.39	13.16	H
	3705	-58.06	-13	-45.06	-70.32	2.64	14.90	V
	5556	-57.60	-13	-44.60	-69.46	2.94	14.80	V
	7404	-54.15	-13	-41.15	-63.92	3.39	13.16	V
Middle	3759	-58.29	-13	-45.29	-70.55	2.64	14.90	H
	5640	-56.49	-13	-43.49	-68.35	2.94	14.80	H
	7524	-53.62	-13	-40.62	-63.39	3.39	13.16	H
	3759	-58.42	-13	-45.42	-70.68	2.64	14.90	V
	5640	-57.25	-13	-44.25	-69.11	2.94	14.80	V
	7524	-53.53	-13	-40.53	-63.30	3.39	13.16	V
Highest	3816	-58.06	-13	-45.06	-70.32	2.64	14.90	H
	5721	-56.09	-13	-43.09	-67.95	2.94	14.80	H
	7632	-53.59	-13	-40.59	-63.36	3.39	13.16	H
	3816	-58.01	-13	-45.01	-70.27	2.64	14.90	V
	5721	-56.33	-13	-43.33	-68.19	2.94	14.80	V
	7632	-53.45	-13	-40.45	-63.22	3.39	13.16	V

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



WCDMA Band IV / Ant.0								
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)
Lowest	3423	-58.77	-13	-45.77	-69.51	2.604	13.34	H
	5136	-56.14	-13	-43.14	-66.65	3.011	13.52	H
	6852	-55.81	-13	-42.81	-66.01	3.271	13.47	H
	3423	-58.90	-13	-45.90	-69.64	2.604	13.34	V
	5136	-56.44	-13	-43.44	-66.95	3.011	13.52	V
	6852	-55.66	-13	-42.66	-65.86	3.271	13.47	V
Middle	3465	-58.48	-13	-45.48	-69.22	2.604	13.34	H
	5196	-55.97	-13	-42.97	-66.48	3.011	13.52	H
	6936	-55.27	-13	-42.27	-65.47	3.271	13.47	H
	3465	-59.03	-13	-46.03	-69.77	2.604	13.34	V
	5196	-56.19	-13	-43.19	-66.70	3.011	13.52	V
	6936	-55.61	-13	-42.61	-65.81	3.271	13.47	V
Highest	3504	-58.98	-13	-45.98	-69.72	2.604	13.34	H
	5256	-56.62	-13	-43.62	-67.13	3.011	13.52	H
	7008	-55.45	-13	-42.45	-65.65	3.271	13.47	H
	3504	-59.16	-13	-46.16	-69.90	2.604	13.34	V
	5256	-56.19	-13	-43.19	-66.70	3.011	13.52	V
	7008	-55.15	-13	-42.15	-65.35	3.271	13.47	V

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