

For Band WCDMA Band II Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1852.4MHz)						
75.68	-44.03	-30.52	-74.55	-13.00	-61.55	H
3704.80	-25.97	-22.19	-48.16	-13.00	-35.16	H
5557.20	-30.53	-19.32	-49.85	-13.00	-36.85	H
75.68	-44.87	-30.52	-75.39	-13.00	-62.39	V
3704.80	-27.86	-22.19	-50.05	-13.00	-37.05	V
5557.20	-28.16	-19.32	-47.48	-13.00	-34.48	V
Middle Channel (1880MHz)						
75.68	-43.12	-30.52	-73.64	-13.00	-60.64	H
3760.00	-27.01	-22.08	-49.09	-13.00	-36.09	H
5640.00	-32.95	-19.28	-52.23	-13.00	-39.23	H
75.68	-43.44	-30.52	-73.96	-13.00	-60.96	V
3760.00	-27.63	-22.08	-49.71	-13.00	-36.71	V
5640.00	-31.96	-19.28	-51.24	-13.00	-38.24	V
High Channel (1907.6MHz)						
75.68	-41.48	-30.52	-72.00	-13.00	-59.00	H
3815.20	-26.67	-21.97	-48.64	-13.00	-35.64	H
5722.80	-29.11	-19.24	-48.35	-13.00	-35.35	H
75.68	-42.37	-30.52	-72.89	-13.00	-59.89	V
3815.20	-28.25	-21.97	-50.22	-13.00	-37.22	V
5722.80	-28.25	-19.24	-47.49	-13.00	-34.49	V

Note: Result=Reading+ Correct, Margin= Result- Limit

For Band WCDMA Band IV Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (1712.4MHz)						
75.68	-43.94	-30.52	-74.46	-13.00	-61.46	H
3424.80	-26.29	-22.75	-49.04	-13.00	-36.04	H
5137.20	-30.84	-19.53	-50.37	-13.00	-37.37	H
75.68	-43.16	-30.52	-73.68	-13.00	-60.68	V
3424.80	-29.62	-22.75	-52.37	-13.00	-39.37	V
5137.20	-29.26	-19.53	-48.79	-13.00	-35.79	V
Middle Channel (1740MHz)						
75.68	-43.35	-30.52	-73.87	-13.00	-60.87	H
3480.00	-25.28	-22.64	-47.92	-13.00	-34.92	H
5220.00	-30.32	-19.49	-49.81	-13.00	-36.81	H
75.68	-43.30	-30.52	-73.82	-13.00	-60.82	V
3480.00	-27.92	-22.64	-50.56	-13.00	-37.56	V
5220.00	-30.18	-19.49	-49.67	-13.00	-36.67	V
High Channel (1752.6MHz)						
75.68	-41.17	-30.52	-71.69	-13.00	-58.69	H
3505.20	-27.29	-22.59	-49.88	-13.00	-36.88	H
5257.80	-29.52	-19.47	-48.99	-13.00	-35.99	H
75.68	-42.27	-30.52	-72.79	-13.00	-59.79	V
3505.20	-27.95	-22.59	-50.54	-13.00	-37.54	V
5257.80	-30.91	-19.47	-50.38	-13.00	-37.38	V

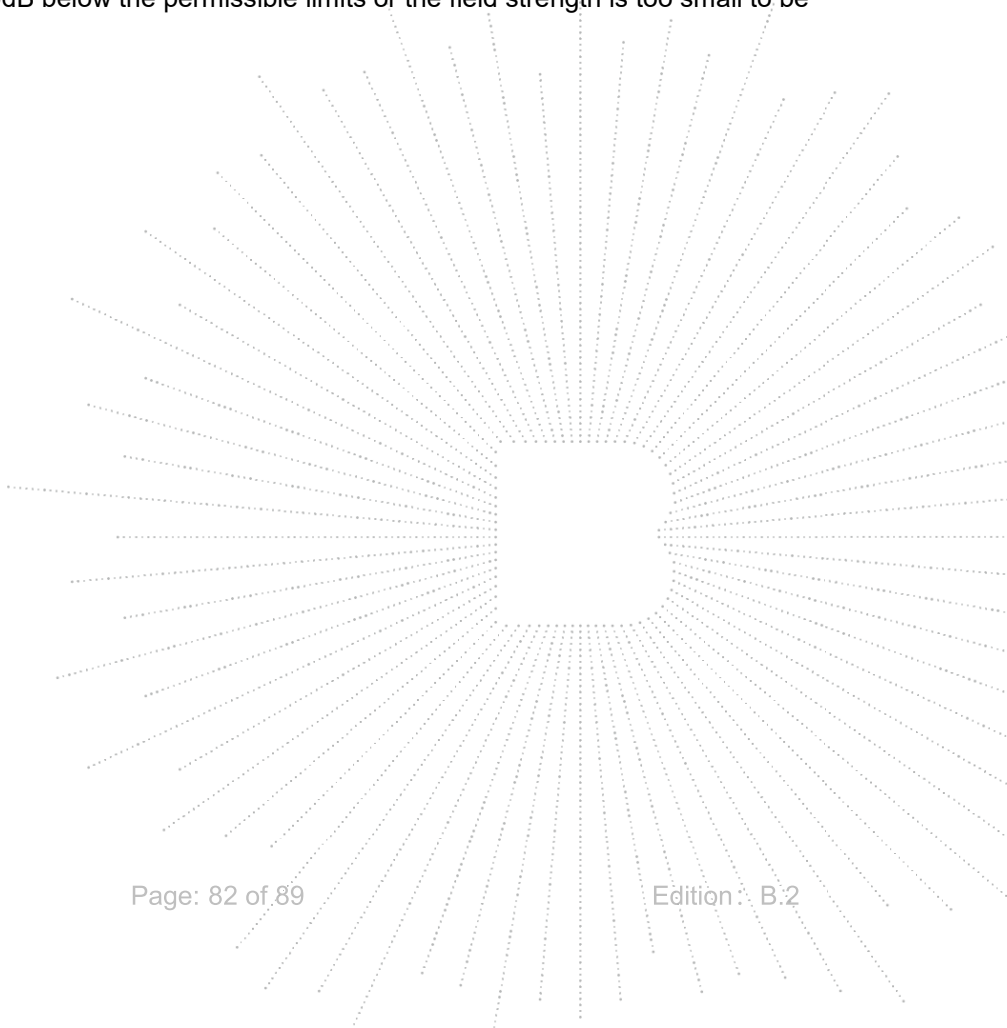
Note: Result=Reading+ Correct, Margin= Result- Limit

For Band WCDMA Band V Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (826.4MHz)						
75.68	-41.58	-30.52	-72.10	-13.00	-59.10	H
1652.80	-19.43	-27.36	-46.79	-13.00	-33.79	H
2479.20	-26.67	-25.16	-51.83	-13.00	-38.83	H
75.68	-42.17	-30.52	-72.69	-13.00	-59.69	V
1652.80	-20.09	-27.36	-47.45	-13.00	-34.45	V
2479.20	-24.38	-25.16	-49.54	-13.00	-36.54	V
Middle Channel (836.4MHz)						
75.68	-41.12	-30.52	-71.64	-13.00	-58.64	H
1672.80	-19.09	-27.32	-46.41	-13.00	-33.41	H
2509.20	-25.25	-25.07	-50.32	-13.00	-37.32	H
75.68	-43.65	-30.52	-74.17	-13.00	-61.17	V
1672.80	-21.66	-27.32	-48.98	-13.00	-35.98	V
2509.20	-24.04	-25.07	-49.11	-13.00	-36.11	V
High Channel (846.6MHz)						
75.68	-41.88	-30.52	-72.40	-13.00	-59.40	H
1693.20	-21.12	-27.27	-48.39	-13.00	-35.39	H
2539.80	-26.92	-24.98	-51.90	-13.00	-38.90	H
75.68	-41.93	-30.52	-72.45	-13.00	-59.45	V
1693.20	-21.84	-27.27	-49.11	-13.00	-36.11	V
2539.80	-23.69	-24.98	-48.67	-13.00	-35.67	V

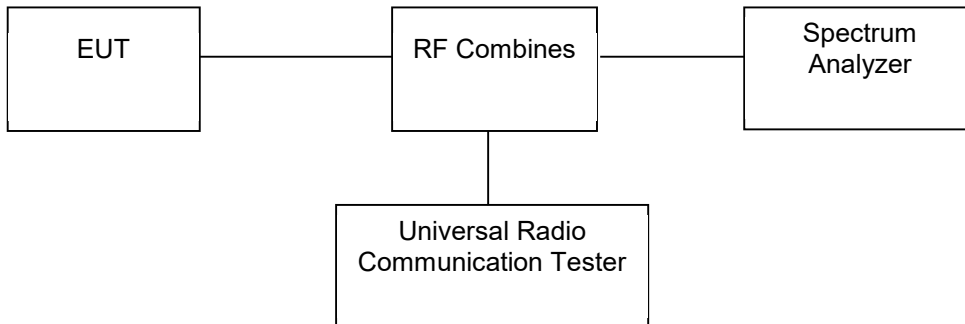
Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



11. Frequency Stability

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part 22.355 : ± 2.5 ppm

FCC Part 24.235 :

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC Part 27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

11.3 Test procedure

1. The testing follows FCC KDB 971168 D01v03r01 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01v03r01 Section 9.0.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

11.4 Test Result

Operation Mode	Channel Number	Test Condition		Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		Voltage (V)	Temp (°C)				
GSM850	190	VN	-30	836.60	5.53	0.0066	2.5
			-20	836.60	4.54	0.0054	2.5
			-10	836.60	-1.67	-0.0020	2.5
			0	836.60	5.58	0.0067	2.5
			10	836.60	5.30	0.0063	2.5
			20	836.60	-2.39	-0.0029	2.5
			30	836.60	5.93	0.0071	2.5
			40	836.60	4.25	0.0051	2.5
			50	836.60	-1.25	-0.0015	2.5
		VL	20	836.60	0.21	0.0002	2.5
		VH	20	836.60	2.69	0.0032	2.5
VERDICT				PASS			

Operation Mode	Channel Number	Test Condition		Channel Fre- quency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		Voltage (V)	Temp (°C)				
GSM1900	512	VN	-30	1850.20	16.22	0.0088	Note 3
			-20	1850.20	16.95	0.0092	Note 3
			-10	1850.20	13.62	0.0074	Note 3
			0	1850.20	12.11	0.0065	Note 3
			10	1850.20	19.49	0.0105	Note 3
			20	1850.20	19.62	0.0106	Note 3
			30	1850.20	10.22	0.0055	Note 3
			40	1850.20	14.19	0.0077	Note 3
			50	1850.20	13.90	0.0075	Note 3
		VL	20	1850.20	15.04	0.0081	Note 3
		VH	20	1850.20	11.57	0.0063	Note 3
VERDICT				PASS			

All modes have been tested, and the worst result recorded was report as below

Operation Mode	Channel Number	Test Condition		Channel Fre- quency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		Voltage (V)	Temp (°C)				
WCDMA8 50	4132	VN	-30	836.40	14.97	0.0179	2.5
			-20	836.40	13.71	0.0164	2.5
			-10	836.40	13.93	0.0167	2.5
			0	836.40	12.00	0.0143	2.5
			10	836.40	18.41	0.0220	2.5
			20	836.40	13.97	0.0167	2.5
			30	836.40	17.39	0.0208	2.5
			40	836.40	14.39	0.0172	2.5
			50	836.40	13.74	0.0164	2.5
		VL	20	836.40	11.25	0.0134	2.5
		VH	20	836.40	17.28	0.0207	2.5
VERDICT				PASS			

Operation Mode	Channel Number	Test Condition		Channel Fre- quency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		Voltage (V)	Temp (°C)				
WCDMA1 700	1312	VN	-30	1712.40	11.39	0.0066	Note 4
			-20	1712.40	18.18	0.0106	Note 4
			-10	1712.40	14.40	0.0084	Note 4
			0	1712.40	18.20	0.0106	Note 4
			10	1712.40	11.74	0.0069	Note 4
			20	1712.40	17.49	0.0102	Note 4
			30	1712.40	12.73	0.0074	Note 4
			40	1712.40	13.80	0.0081	Note 4
			50	1712.40	10.45	0.0061	Note 4
		VL	20	1712.40	14.15	0.0083	Note 4
		VH	20	1712.40	13.40	0.0078	Note 4
VERDICT				PASS			

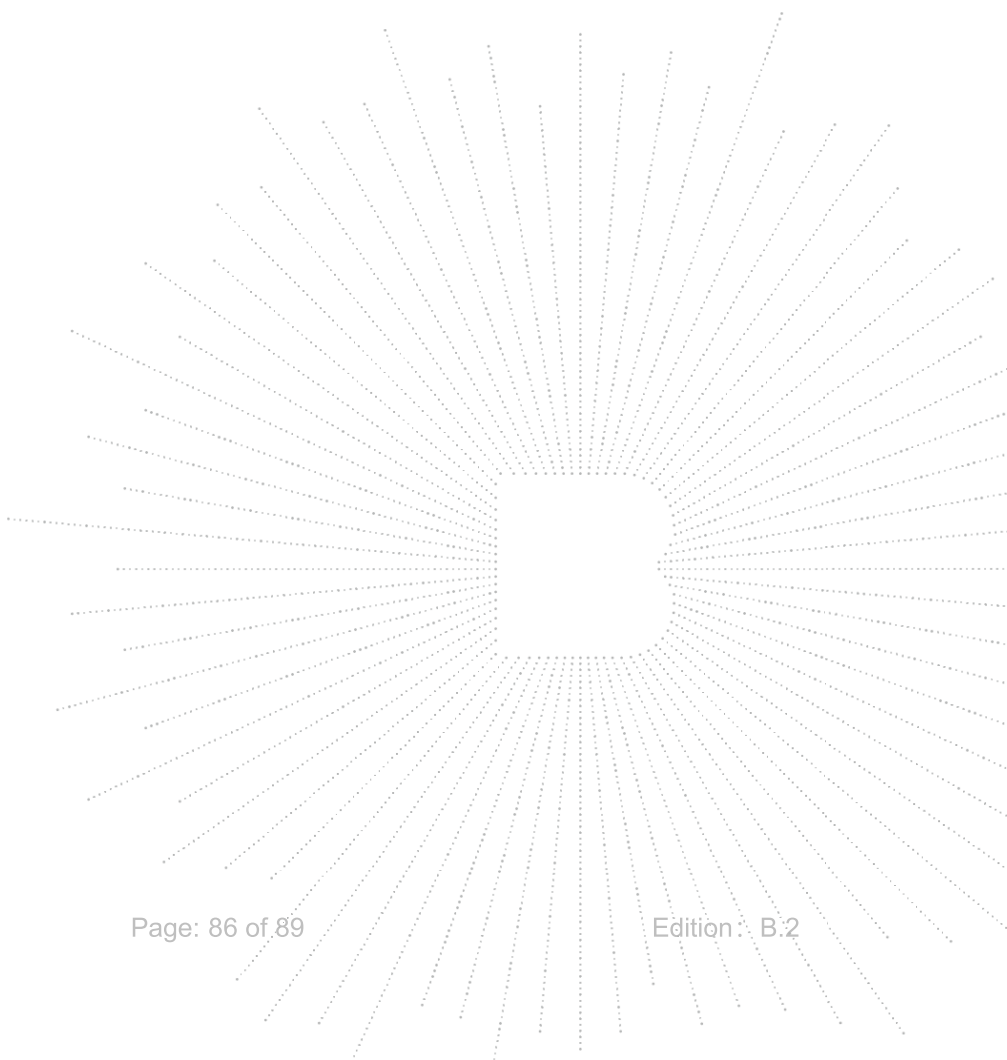
Operation Mode	Channel Number	Test Condition		Channel Fre- quency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		Voltage (V)	Temp (°C)				
WCDMA1 900	9262	VN	-30	1852.40	11.22	0.0061	Note 4
			-20	1852.40	12.63	0.0068	Note 4
			-10	1852.40	12.25	0.0066	Note 4
			0	1852.40	18.35	0.0099	Note 4
			10	1852.40	19.24	0.0104	Note 4
			20	1852.40	14.03	0.0076	Note 4
			30	1852.40	11.11	0.0060	Note 4
			40	1852.40	14.43	0.0078	Note 4
			50	1852.40	19.66	0.0106	Note 4
		VL	20	1852.40	10.60	0.0057	Note 4
		VH	20	1852.40	16.25	0.0088	Note 4
VERDICT				PASS			

Note 1: All modes have been tested with GSM.

Note 2: All modes have been tested, and the worst result recorded was report as below

Note 3: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Note 4: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.



12. EUT Photographs

EUT Photo 1



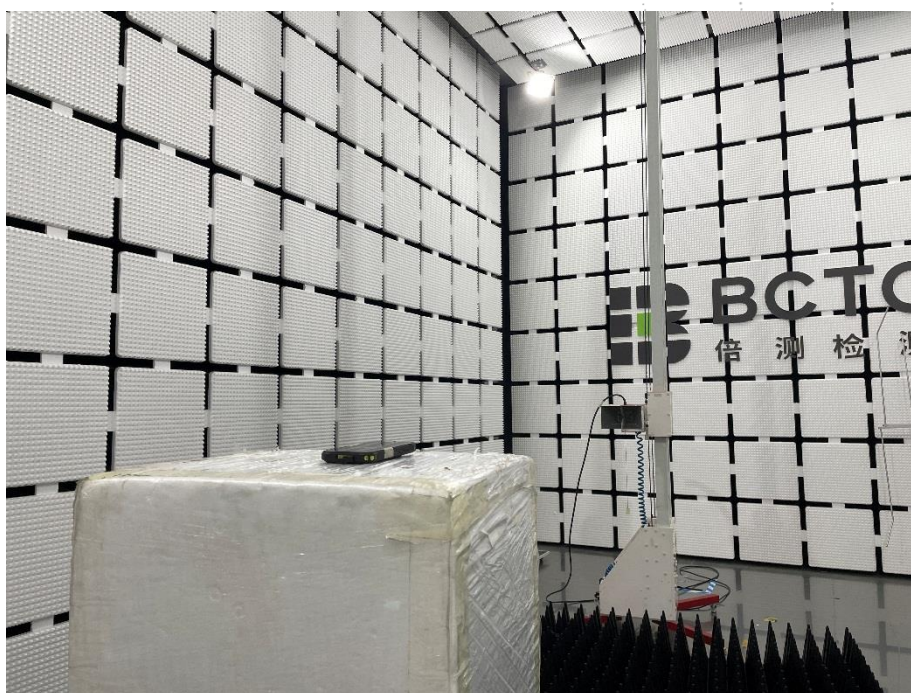
EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details.

13. EUT Test Setup Photographs

Radiated Measurement Photos



STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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