

Test Report No:
2620312R-RFUSV22S-A1

TEST REPORT

FCC Rules&Regulations

Product Name	LTE 4G module
Brand Name	WNC Corporation
Model No.	IMQ8F4
FCC ID	NKRIMQ8F4
Applicant's Name / Address	WNC Corporation 20 Park Avenue II, Hsinchu Science Park, Hsinchu 300, Taiwan
Manufacturer's Name / Address	WNC Corporation 20 Park Ave. II, Hsinchu Science Park, Hsinchu 308, Taiwan
Test Method Requested, Standard	FCC CFR Title 47 Part 22 Subpart H FCC CFR Title 47 Part 24 Subpart E ANSI/TIA-603-E-2016 ANSI C63.26-2015
Verdict Summary	IN COMPLIANCE
Documented By	 Hailey Peng
Approved By	 Rueyyan Lin
Date of Receipt	Feb. 11, 2026
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Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Apr. 20, 2026

Summary of Test Result

Report Clause	Test Items	Band	Ref Std. Clause	Limit	Result (PASS/FAIL)	Remark
3	RF Output Power	2	§2.1033 §2.1046 §24.232	< 2 Watts	PASS	-
		5	§2.1033 §2.1046 §22.913	< 7 Watts ERP	PASS	-
4	Occupied Bandwidth	2, 5	§2.1049	N/A	PASS	-
5	Peak to Average Power Ratio	2	§24.232	≤ 13 dB	PASS	-
		5	§22.913	≤ 13 dB	PASS	-
6	Spurious Emission	2	§2.1053 §24.238	< -13 dBm	PASS	-
		5	§22.917	< -13 dBm	PASS	-
7	Conducted Band Edge	2	§24.238	< -13 dBm	PASS	-
		5	§2.1053 §22.917	< -13 dBm	PASS	-
8	Frequency Stability	2	§2.1055 §24.235	Within the operating frequency range	PASS	-
		5	§2.1055 §22.355	± 2.5 ppm	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Frequency Range	WCDMA Band 2	1850~1910 MHz (Uplink) 1930~1990 MHz (Downlink)
	WCDMA Band 5	824~849 MHz (Uplink) 869~894 MHz (Downlink)
Function	RMC / HSDPA / DC-HSDPA / HSUPA / HSPA+	
Type of Modulation	BPSK / QPSK / 16QAM	

Antenna Information					
Ant.	Brand Name	Part No.	Type	Gain (dBi)	
				Band 2	Band 5
1	MAG.LAYERS	BTEA0020106G0R2A22	Dipole	2.72	2.55
2	MAG.LAYERS	BTEA0020106G0R2A22	Dipole	2.72	2.55

1.2. EUT Information

EUT Power Type	From Host system / DC power supply
EUT Voltage	DC 3.8V
Hardware Version	v1.0
Software Version	MPSS: IMQ8F4_v20.01 APSS: IMQ8F4_v07.01
IMEI No.	155850050601500

1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC CFR Title 47 Part 22 Subpart H
- FCC CFR Title 47 Part 24 Subpart E
- FCC CFR Title 47 Part 2
- ANSI/TIA-603-E (2016)
- ANSI C63.26-2015
- FCC KDB 971168 D01 v03r01

The following reference test guidance is not within the scope of accreditation of TAF.

- FCC KDB 412172 D01 v01r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02 and HC-CB10. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted Emission	HC-SR12	Max Chang	22 / 62	2026/02/26
Radiated Emission	HC-CB04	Cyril Chen	22.3 / 62	2026/03/07

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
RF Output Power	± 1.11 dB
Occupied Bandwidth	± 217.9 Hz
Peak to Average Power Ratio	± 1.74 dB
Conducted Band Edge	± 1.74 dB
Spurious Emissions	± 3.25 dB below 1 GHz ± 3.18 dB above 1 GHz
Frequency Stability	± 217.9 Hz

1.6. List of Test Equipment

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2025/06/17	2026/06/16
Temperature & Humidity Test Chamber	KSON	THS-B4T-150	A0401	-40°C~+150°C/10%-98%R.H ; 114x93x162cm	2025/12/02	2026/12/01
Wideband Radio Communication Tester	R&S	CMW500	152862	1900/01/00	2025/05/02	2026/05/01

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2025/05/20	2026/05/19
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	30 MHz-2 GHz	2025/06/17	2026/06/16
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18EN	1G-18GHz	2025/11/03	2026/11/02
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2025/12/04	2026/12/03
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2025/10/16	2026/10/15
Coaxial Cable	Huber+Suhner	SF104	HC-CB04	30 MHz-18 GHz, 11m	2025/08/07	2026/08/06
Coaxial Cable	Huber+Suhner,Rosnol	SF102_UP0264	HC-CB04-1	18-40 GHz, 3m	2025/08/13	2026/08/12
Pre-Amplifier	EMEC	EM01G18GA	060835	1-18 GHz,50 dB	2025/07/09	2026/07/08
Pre-Amplifier	EMCI	EMC003240	980324	0.3-2500 MHz, 40 dB	2024/10/28	2026/10/27
Wideband Radio Communication Tester	R&S	CMW500	152862	1900/01/00	2025/05/02	2026/05/01
Radiated Software	Audix	e3 V9	HC-CB04_1	N/A	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition			
Testing Voltage	Vnom (DC 12V)	Vmax (DC 13.8V)	Vmin (DC 10.2V)
Operational Climatic	Tnom (25°C)	Tmax (65°C)	Tmin (-20°C)

2.2. The Worst Case Measurement Configuration

Test Mode	Mode 1: WCDMA Band 2 Mode 2: WCDMA Band 5
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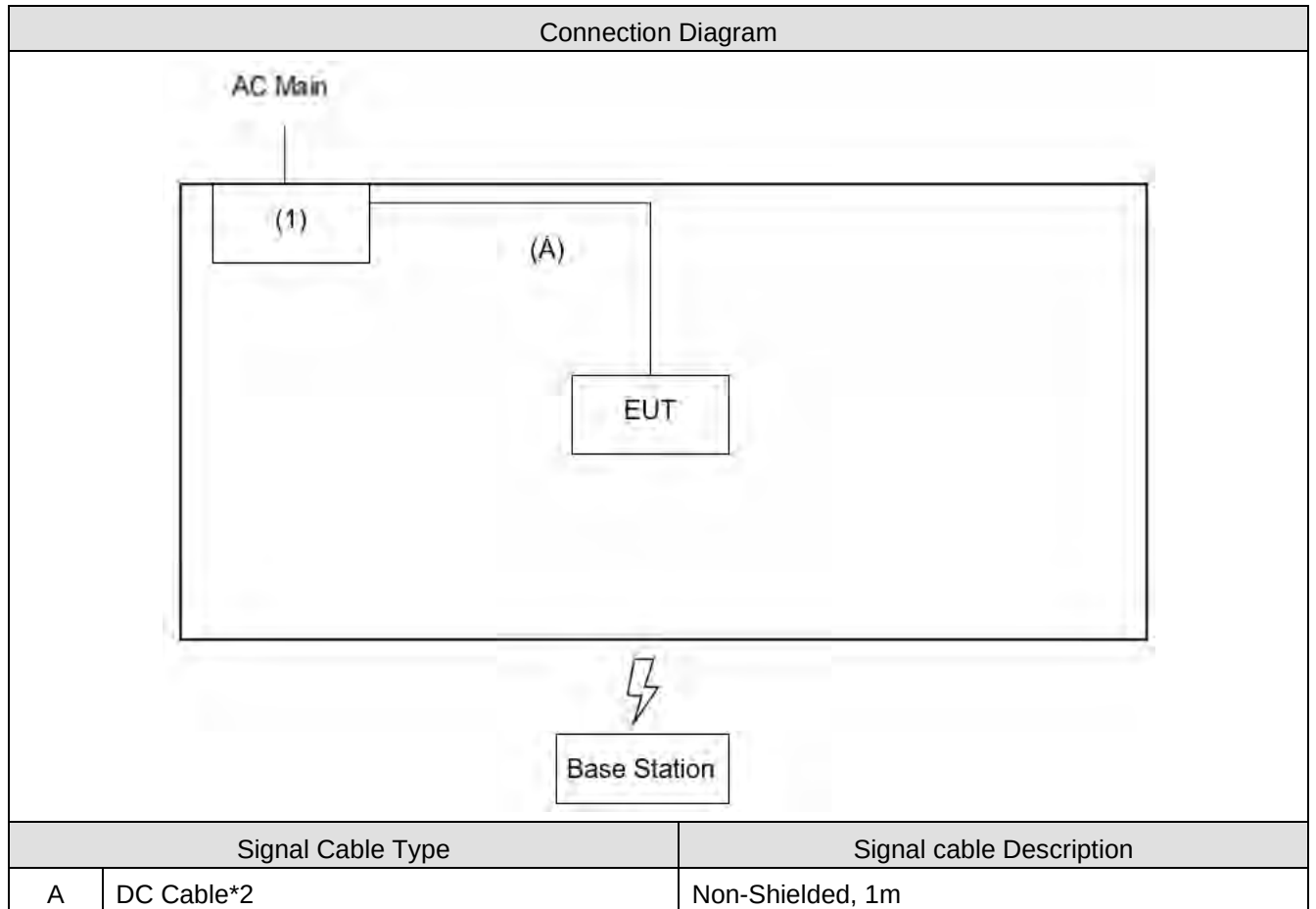
Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The device was tested under all bandwidths, RB configurations and modulations, and the worst case was found in QPSK modulation and show in "Conducted Band Edge" & "Spurious Emission".
3. The EUT was performed at X axis, Y axis and Z axis position for radiated spurious emission test. The worst case was found at X axis, so the measurement will follow this same test configuration.

2.3. Tested System Details

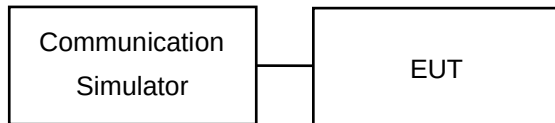
No.	Equipment	Brand Name	Model No.	Serial No.
1	DC Power Supply	R&S	HMC 8042	N/A

2.4. Configuration of Tested System



3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum conducted RF output power under transmission mode and specific channel frequency. The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

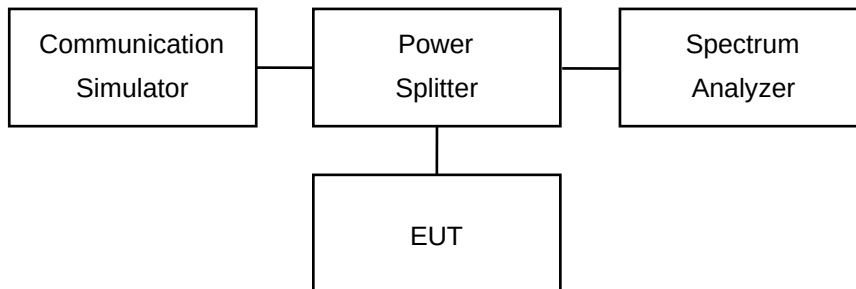
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB

3.3. Test Result of RF Output Power

Refer as Appendix A

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedures

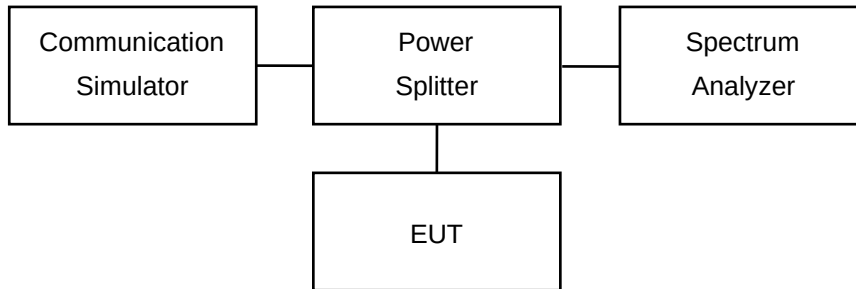
The EUT makes a call to the communication simulator. The 26dB bandwidth and 99% occupied bandwidth measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.

4.3. Test Result of Occupied Bandwidth

Refer as Appendix B

5. Peak to Average Power Ratio

5.1. Test Setup



5.2. Test Procedure

1. The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth.
3. Set the number of counts to a value that stabilizes the measured CCDF curve.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

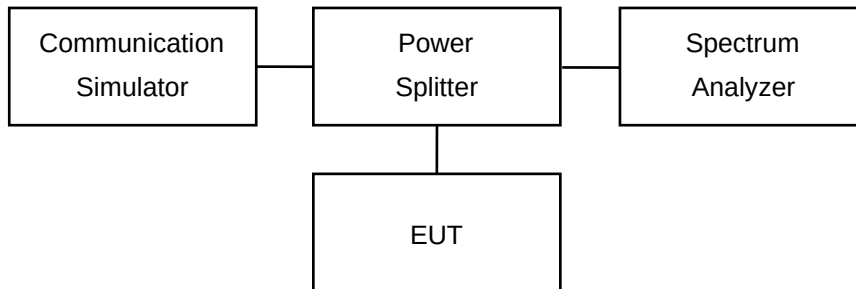
5.3. Test Result of Peak to Average Power Ratio

Refer as Appendix C

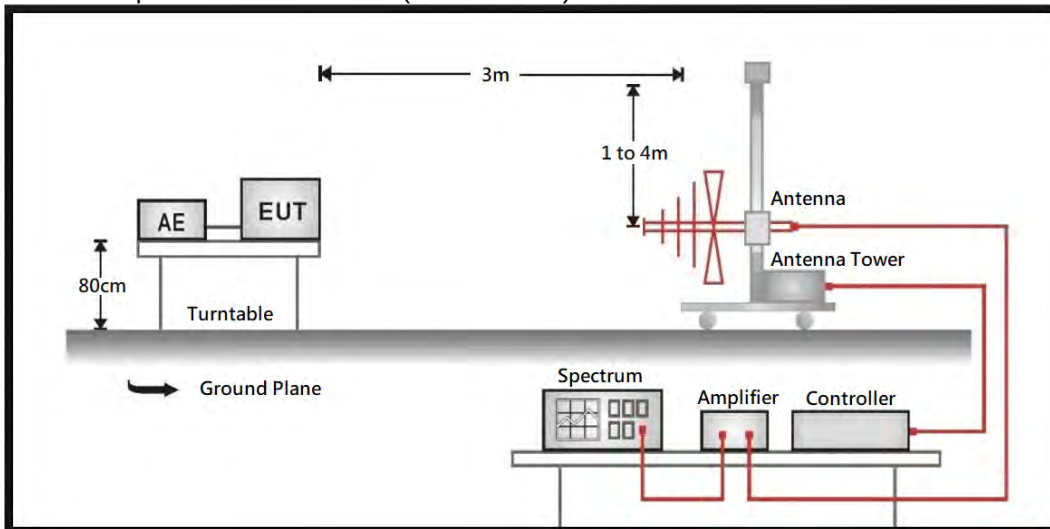
6. Spurious Emission

6.1. Test Setup

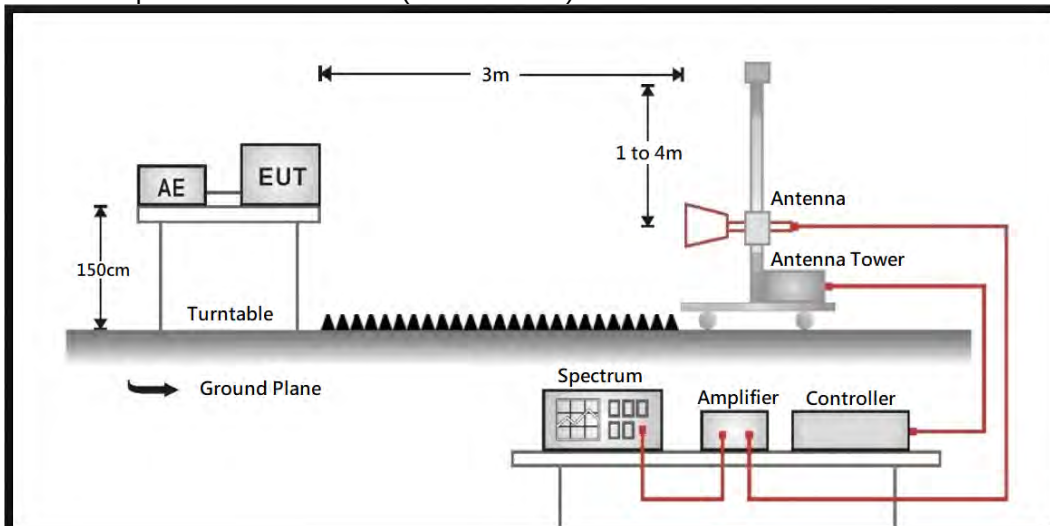
Conducted Spurious Measurement



Radiated Spurious Measurement (below 1 GHz)



Radiated Spurious Measurement (above 1 GHz)



6.2. Test Procedure

Conducted Spurious Measurement:

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic. Taking the record of maximum spurious emission.

6.3. Test Result of Radiated Spurious Emission (Below 1 GHz)

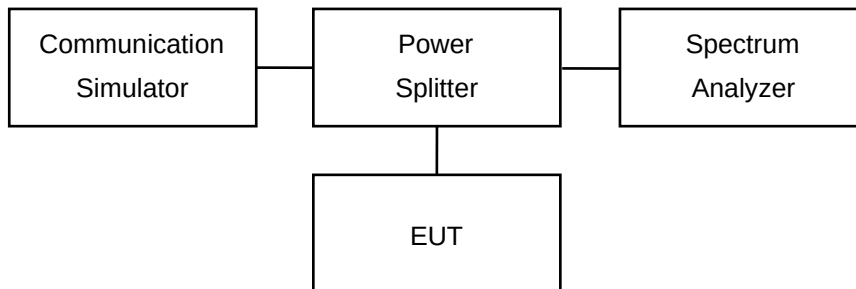
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

6.4. Test Result of Conducted Spurious Emission and Radiated Spurious Emission (Above 1 GHz)

Refer as Appendix D

7. Conducted Band Edge

7.1. Test Setup



7.2. Test Procedure

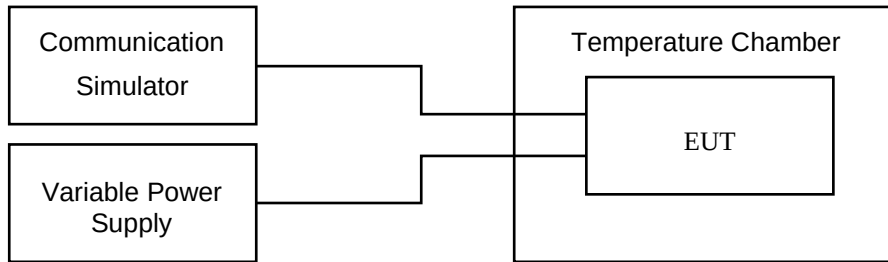
1. The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.
2. In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

7.3. Test Result of Conducted Band Edge

Refer as Appendix E

8. Frequency Stability

8.1. Test Setup



8.2. Test Procedures

Frequency Stability under Temperature Variations:

The EUT under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a communication simulator. The EUT was placed inside the temperature chamber. Set the EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC or DC power supply to power the EUT and set the voltage to rated voltage. Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

8.3. Test Result of Frequency Stability

Refer as Appendix F

Appendix A. Test Result of RF Output Power

WCDMA Band 2						
Test Mode	Frequency (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	EIRP Limit (W)
RMC	1852.4	23.04	2.72	25.760	0.377	2
	1880	23.19	2.72	25.910	0.390	2
	1907.6	22.94	2.72	25.660	0.368	2
HSUPA Subtest 1	1852.4	21.92	2.72	24.638	0.291	2
	1880	22.16	2.72	24.880	0.308	2
	1907.6	21.90	2.72	24.620	0.290	2
HSUPA Subtest 2	1852.4	21.95	2.72	24.666	0.293	2
	1880	21.97	2.72	24.694	0.295	2
	1907.6	21.94	2.72	24.655	0.292	2
HSUPA Subtest 3	1852.4	22.11	2.72	24.826	0.304	2
	1880	22.18	2.72	24.900	0.309	2
	1907.6	21.91	2.72	24.630	0.290	2
HSUPA Subtest 4	1852.4	21.93	2.72	24.647	0.292	2
	1880	22.03	2.72	24.746	0.298	2
	1907.6	21.93	2.72	24.653	0.292	2
HSUPA Subtest 5	1852.4	21.98	2.72	24.700	0.295	2
	1880	22.18	2.72	24.900	0.309	2
	1907.6	21.92	2.72	24.644	0.291	2
HSDPA Subtest 1	1852.4	21.93	2.72	24.652	0.292	2
	1880	22.11	2.72	24.828	0.304	2
	1907.6	21.90	2.72	24.616	0.289	2
HSDPA Subtest 2	1852.4	21.94	2.72	24.660	0.292	2
	1880	22.01	2.72	24.732	0.297	2
	1907.6	21.97	2.72	24.693	0.295	2
HSDPA Subtest 3	1852.4	22.02	2.72	24.736	0.298	2
	1880	22.17	2.72	24.888	0.308	2
	1907.6	22.06	2.72	24.780	0.301	2
HSDPA Subtest 4	1852.4	22.00	2.72	24.724	0.297	2
	1880	22.17	2.72	24.890	0.308	2
	1907.6	21.97	2.72	24.690	0.294	2

Note:

1. EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)
2. EIRP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

WCDMA Band 5						
Test Mode	Frequency (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	ERP Limit (W)
RMC	826.4	24.47	2.55	24.870	0.307	7
	836.6	24.56	2.55	24.960	0.313	7
	846.6	24.51	2.55	24.910	0.310	7
HSUPA Subtest 1	826.4	23.46	2.55	23.861	0.243	7
	836.6	23.50	2.55	23.902	0.246	7
	846.6	23.40	2.55	23.795	0.240	7
HSUPA Subtest 2	826.4	23.42	2.55	23.817	0.241	7
	836.6	23.47	2.55	23.873	0.244	7
	846.6	23.44	2.55	23.844	0.242	7
HSUPA Subtest 3	826.4	23.40	2.55	23.805	0.240	7
	836.6	23.49	2.55	23.893	0.245	7
	846.6	23.49	2.55	23.890	0.245	7
HSUPA Subtest 4	826.4	23.45	2.55	23.848	0.243	7
	836.6	23.50	2.55	23.900	0.245	7
	846.6	23.47	2.55	23.870	0.244	7
HSUPA Subtest 5	826.4	23.41	2.55	23.812	0.241	7
	836.6	23.54	2.55	23.940	0.248	7
	846.6	23.53	2.55	23.930	0.247	7
HSDPA Subtest 1	826.4	23.49	2.55	23.893	0.245	7
	836.6	23.52	2.55	23.916	0.246	7
	846.6	23.49	2.55	23.890	0.245	7
HSDPA Subtest 2	826.4	23.44	2.55	23.838	0.242	7
	836.6	23.47	2.55	23.866	0.244	7
	846.6	23.45	2.55	23.847	0.242	7
HSDPA Subtest 3	826.4	23.49	2.55	23.892	0.245	7
	836.6	23.59	2.55	23.990	0.251	7
	846.6	23.48	2.55	23.880	0.244	7
HSDPA Subtest 4	826.4	23.47	2.55	23.870	0.244	7
	836.6	23.51	2.55	23.910	0.246	7
	846.6	23.40	2.55	23.798	0.240	7

Note:

1. ERP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15 dB

2. ERP (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

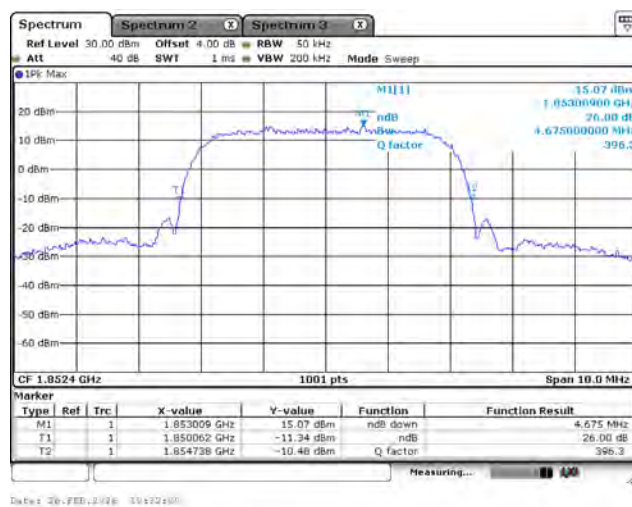
Appendix B. Test Result of Occupied Bandwidth

WCDMA Band 2					
Mode	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% OBW	
RMC	9262	1852.4	4.675	4.115	N/A
	9400	1880	4.675	4.125	N/A
	9538	1907.6	4.665	4.125	N/A

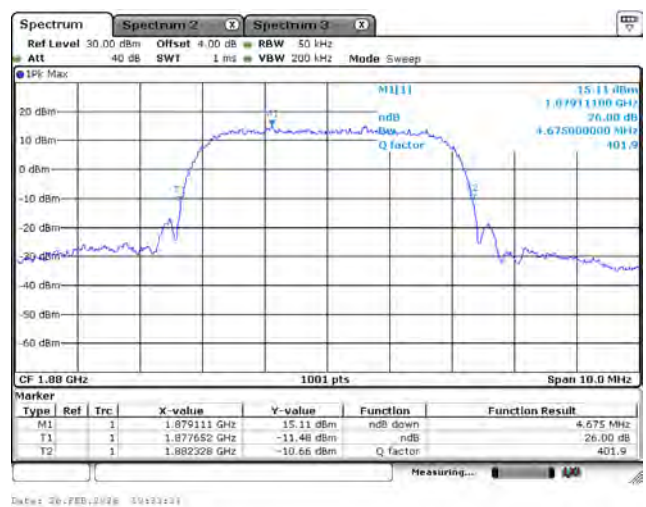
WCDMA Band 5					
Mode	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% OBW	
RMC	4132	826.4	4.665	4.125	N/A
	4183	836.6	4.675	4.115	N/A
	4233	846.6	4.665	4.125	N/A

For 26dB BW

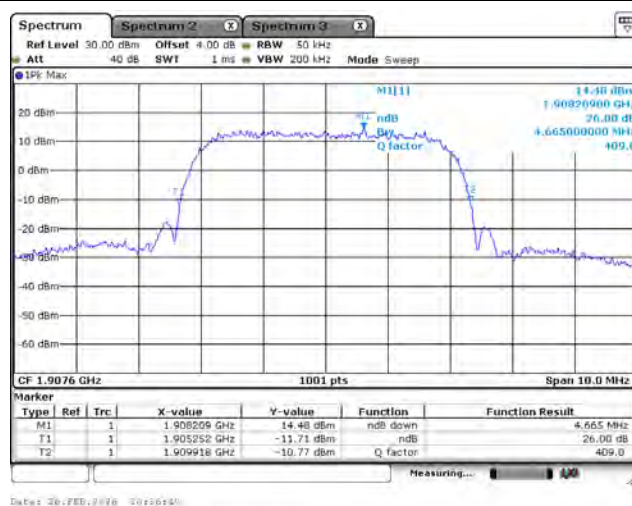
WCDMA Band 2 / RMC / 1852.4 MHz



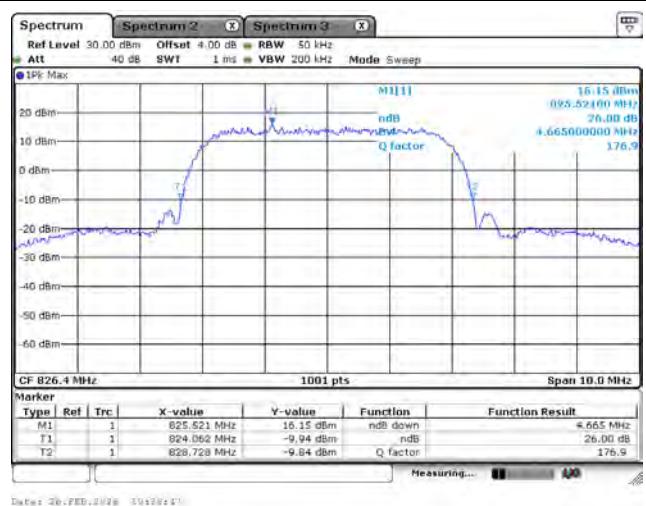
WCDMA Band 2 / RMC / 1880.0 MHz



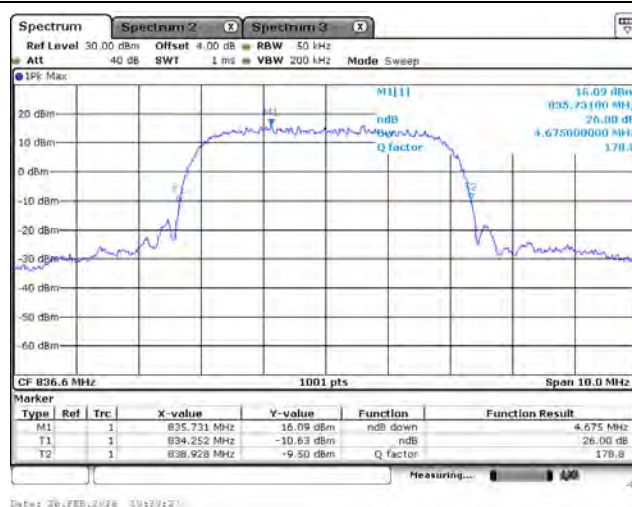
WCDMA Band 2 / RMC / 1907.6 MHz



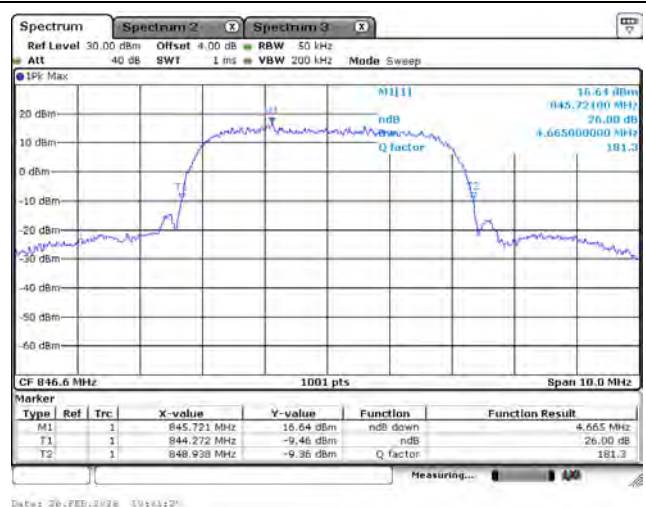
WCDMA Band 5 / RMC / 826.4 MHz



WCDMA Band 5 / RMC / 836.6 MHz

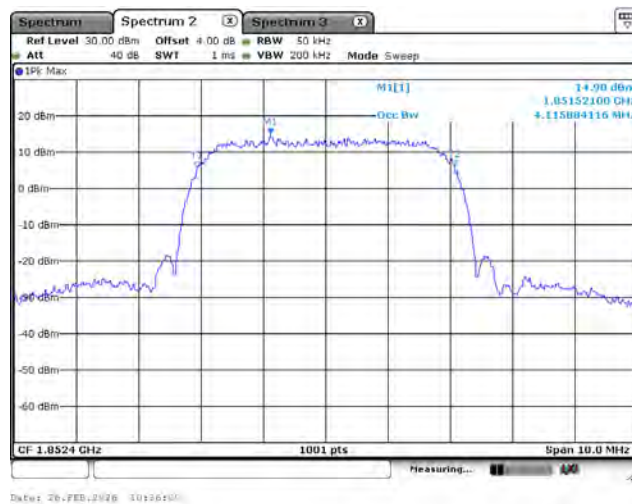


WCDMA Band 5 / RMC / 846.6 MHz

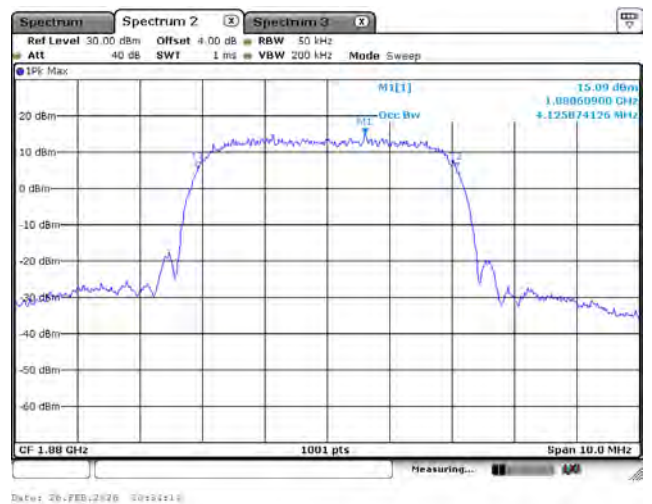


For 99% OBW

WCDMA Band 2 / RMC / 1852.4 MHz



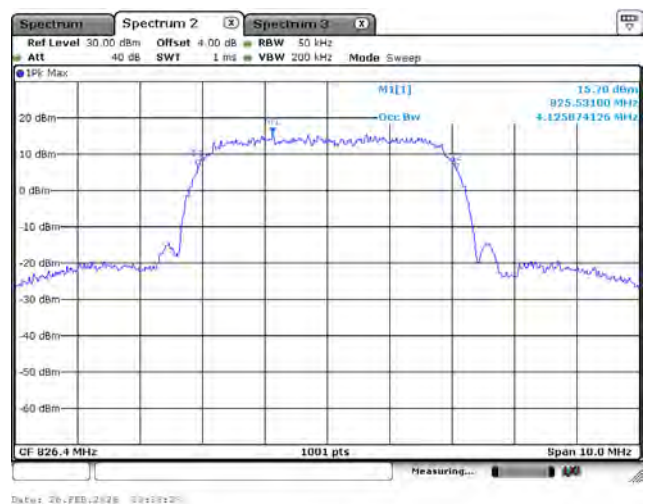
WCDMA Band 2 / RMC / 1880.0 MHz



WCDMA Band 2 / RMC / 1907.6 MHz



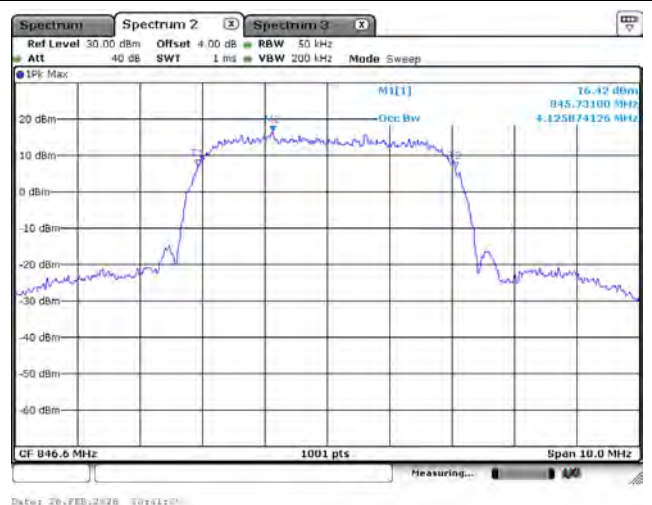
WCDMA Band 5 / RMC / 826.4 MHz



WCDMA Band 5 / RMC / 836.6 MHz



WCDMA Band 5 / RMC / 846.6 MHz

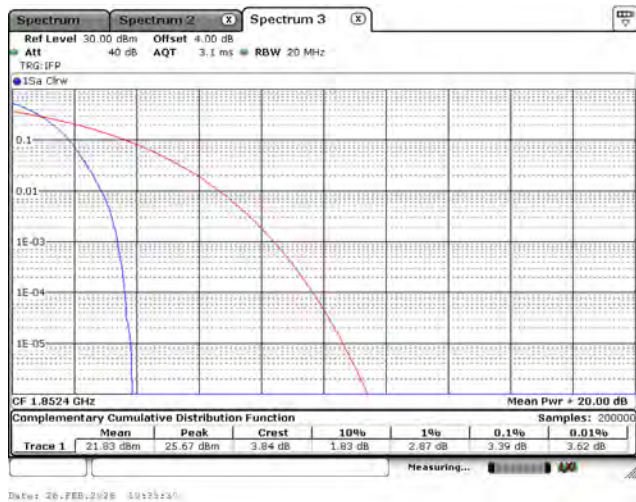


Appendix C. Test Result of Peak to Average Power Ratio

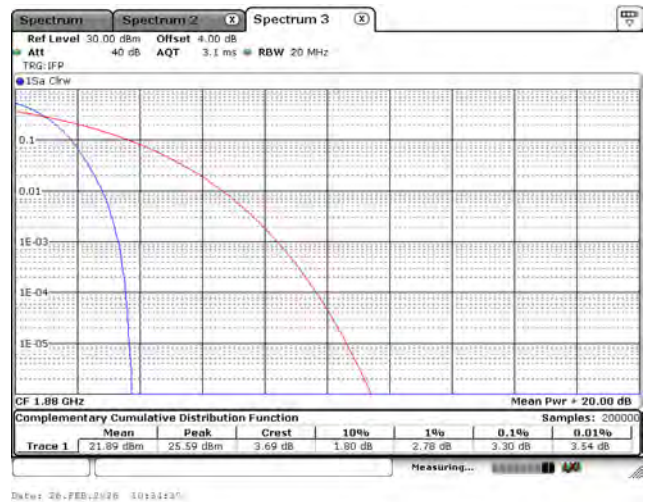
WCDMA Band 2					
Channel	Frequency (MHz)	Mode	Peak (dBm)	Average (dBm)	PAPR (dB)
9262	1852.4	RMC	25.67	21.83	3.39
9400	1880.0		25.59	21.89	3.30
9538	1907.6		25.38	21.74	3.28

WCDMA Band 5					
Channel	Frequency (MHz)	Mode	Peak (dBm)	Average (dBm)	PAPR (dB)
4132	826.4	RMC	27.09	23.10	3.62
4183	836.6		26.59	23.07	3.19
4233	846.6		26.82	23.17	3.36

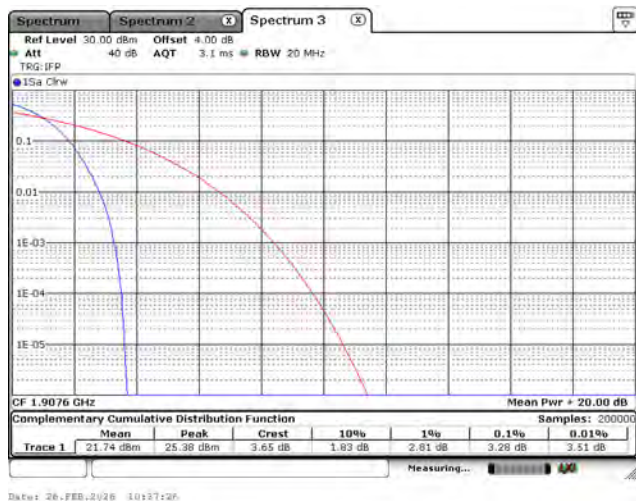
WCDMA Band 2 / RMC / 1852.4 MHz



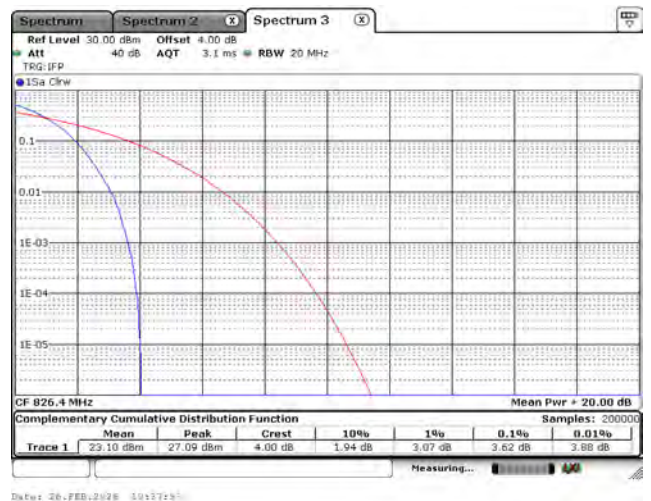
WCDMA Band 2 / RMC / 1880.0 MHz



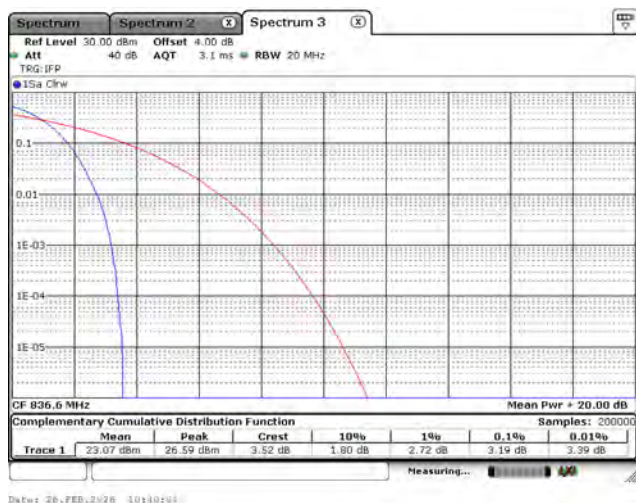
WCDMA Band 2 / RMC / 1907.6 MHz



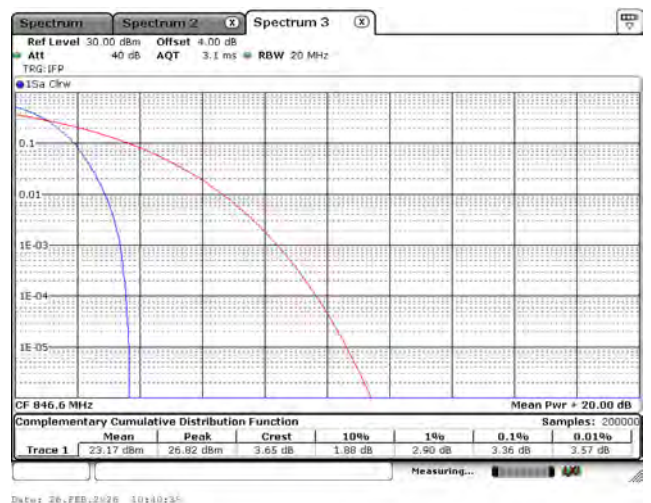
WCDMA Band 5 / RMC / 826.4 MHz



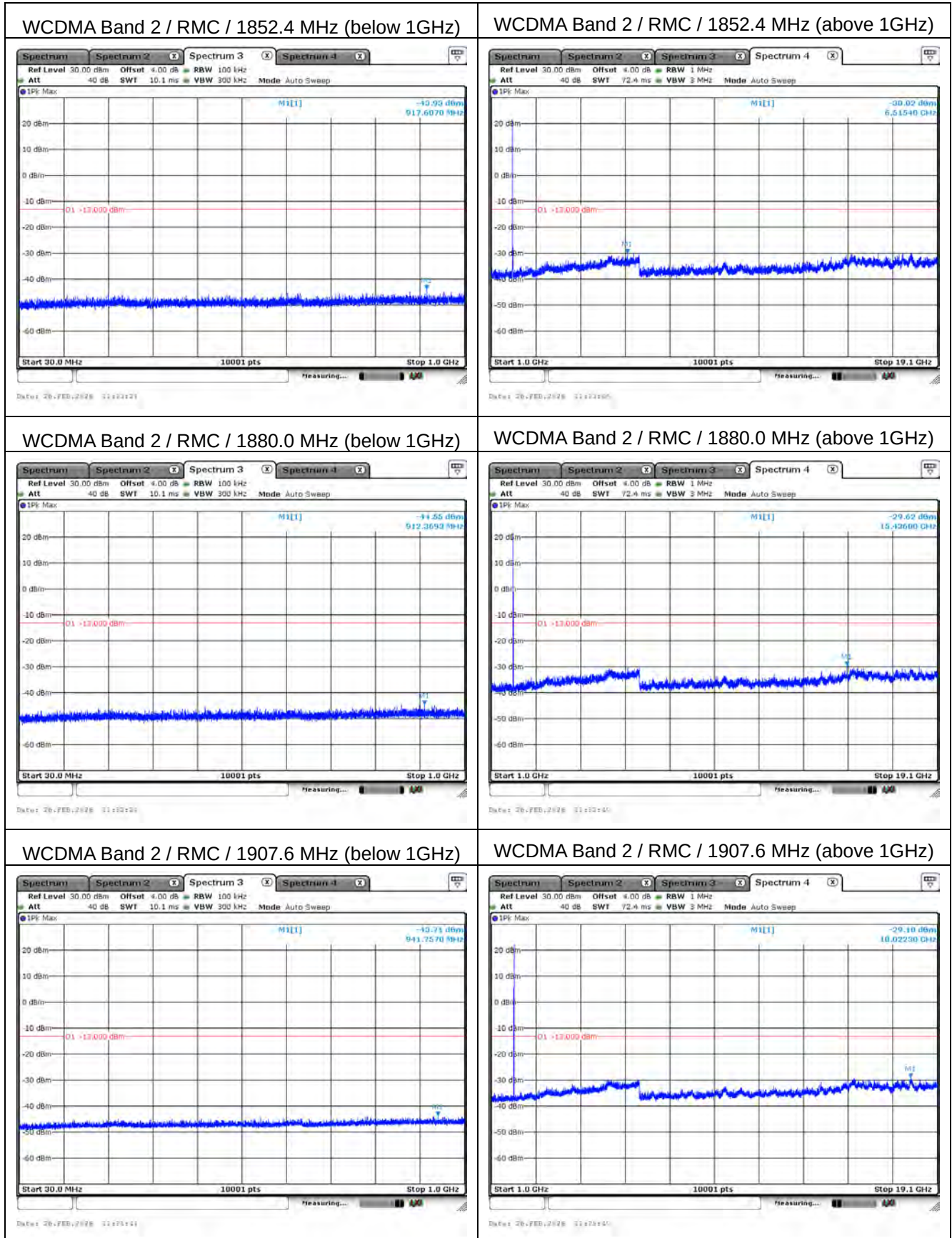
WCDMA Band 5 / RMC / 836.6 MHz



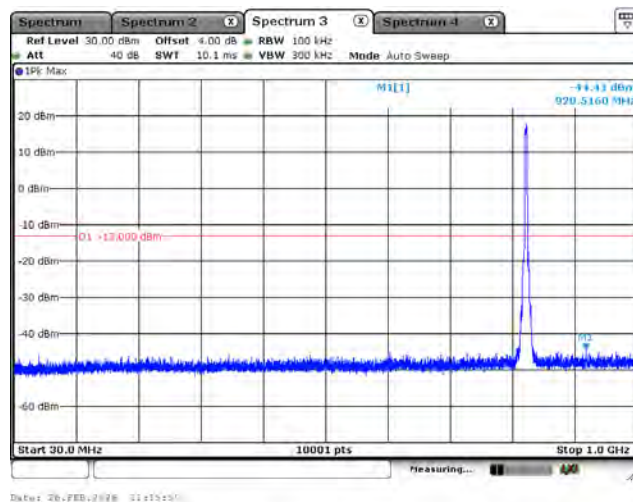
WCDMA Band 5 / RMC / 846.6 MHz



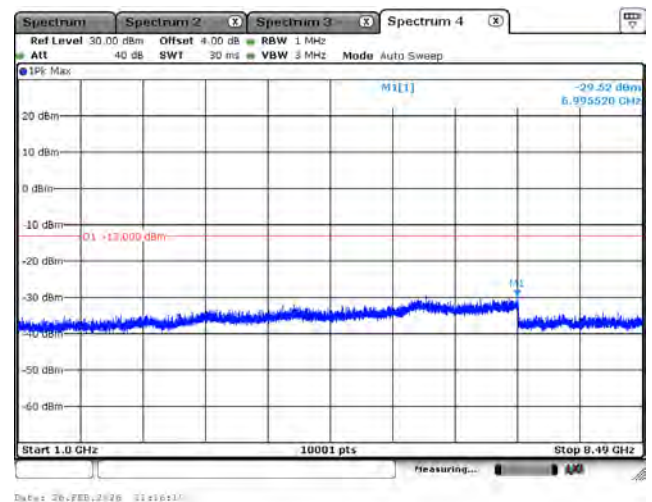
Appendix D.1 Test Result of Conducted Spurious Emission



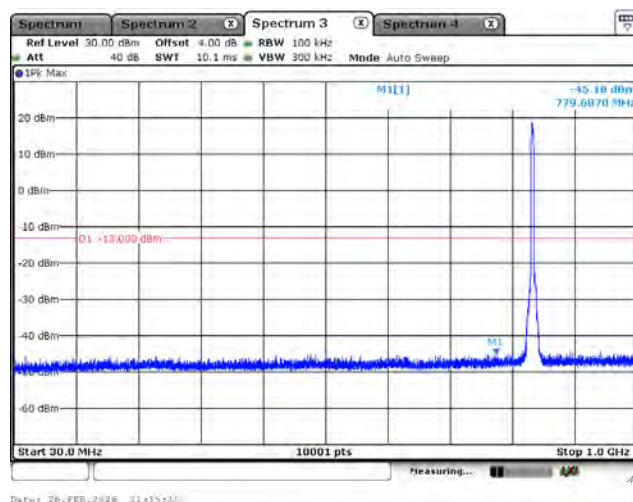
WCDMA Band 5 / RMC / 826.4 MHz (below 1GHz)



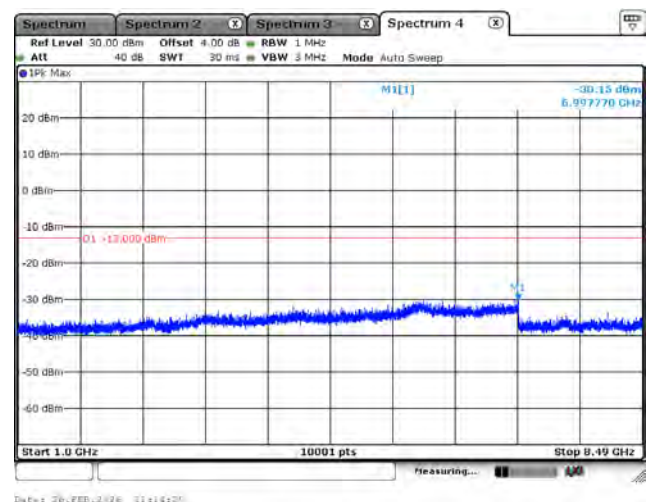
WCDMA Band 5 / RMC / 826.4 MHz (above 1GHz)



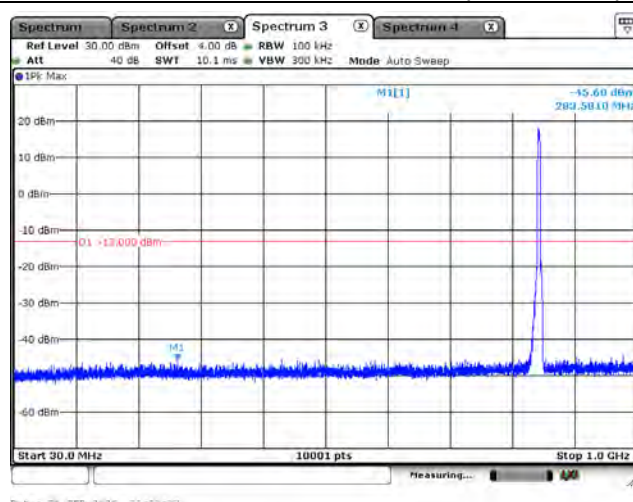
WCDMA Band 5 / RMC / 836.6 MHz (below 1GHz)



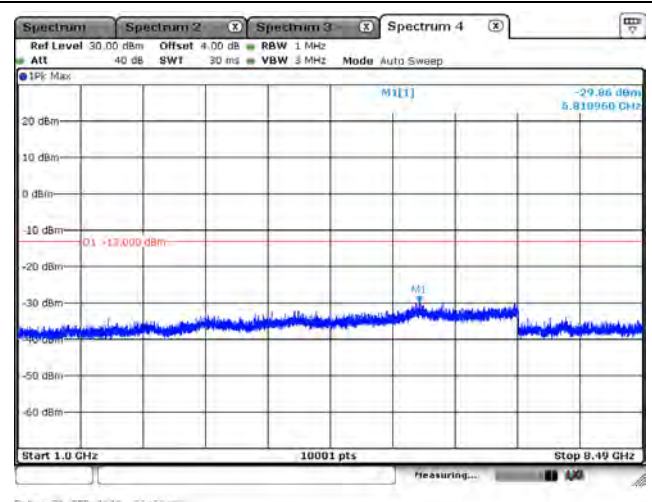
WCDMA Band 5 / RMC / 836.6 MHz (above 1GHz)



WCDMA Band 5 / RMC / 846.6 MHz (below 1GHz)



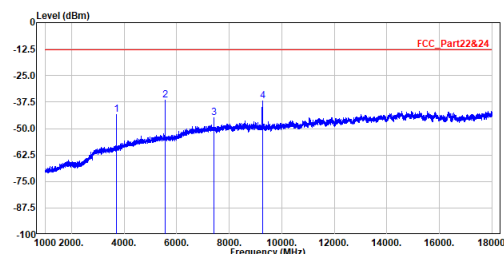
WCDMA Band 5 / RMC / 846.6 MHz (above 1GHz)



Appendix D.2 Test Result of Radiated Spurious Emission

Mode 1: WCDMA Band 2

Site :HC-CB04
Condition :3m Horizontal
Mode :WCDMA Band 2 CH9262
Test By :Cyril Chen

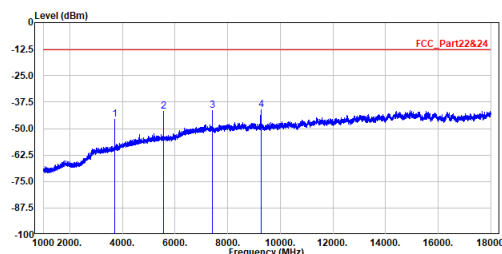


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3704.000	-43.32	-13.00	-30.32	-35.04	-8.28	Peak
2	5557.200	-36.60	-13.00	-23.60	-32.25	-4.35	Peak
3	7409.600	-45.06	-13.00	-32.06	-45.29	0.23	Peak
4	9262.000	-36.82	-13.00	-23.82	-39.50	2.68	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
= $107 + 20\log(1) - 104.8 = 2.2$ dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :WCDMA Band 2 CH9262
Test By :Cyril Chen

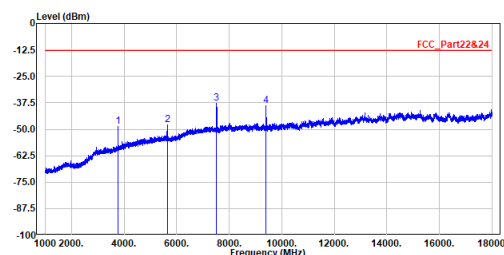


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3704.000	-45.61	-13.00	-32.61	-37.33	-8.28	Peak
2	5557.200	-41.95	-13.00	-28.95	-37.60	-4.35	Peak
3	7409.600	-41.63	-13.00	-28.63	-41.86	0.23	Peak
4	9262.000	-41.09	-13.00	-28.09	-43.77	2.68	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
= $107 + 20\log(1) - 104.8 = 2.2$ dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04
Condition :3m Horizontal
Mode :WCDMA Band 2 CH9400
Test By :Cyril Chen

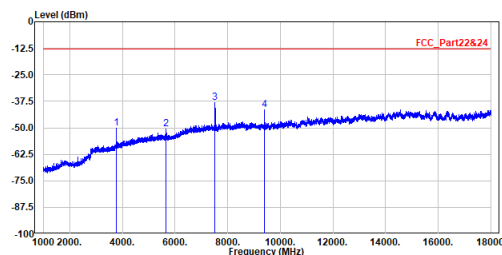


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3760.000	-48.73	-13.00	-35.73	-40.70	-8.03	Peak
2	5640.000	-47.93	-13.00	-34.93	-43.75	-4.18	Peak
3	7520.000	-37.79	-13.00	-24.79	-38.17	0.38	Peak
4	9400.000	-38.87	-13.00	-25.87	-41.84	2.97	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
= $107 + 20\log(1) - 104.8 = 2.2$ dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :WCDMA Band 2 CH9400
Test By :Cyril Chen

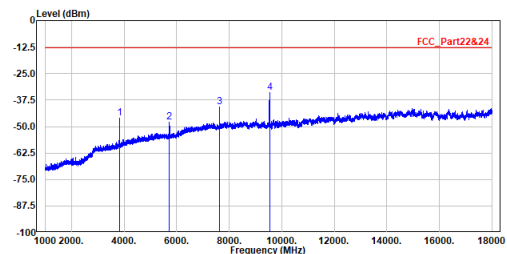


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	3760.000	-50.35	-13.00	-37.35	-42.32	-8.03	Peak
2	5640.000	-50.50	-13.00	-37.50	-46.32	-4.18	Peak
3	7520.000	-38.24	-13.00	-25.24	-38.62	0.38	Peak
4	9400.000	-41.58	-13.00	-28.58	-44.55	2.97	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
= $107 + 20\log(1) - 104.8 = 2.2$ dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

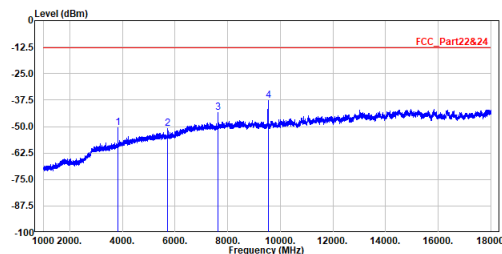
Site :HC-CB04
Condition :3m Horizontal
Mode :WCDMA Band 2 CH9538
Test By :Cyril Chen



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	3815.200	-46.02	-13.00	-33.02	-38.22	-7.80	Peak
2	5722.800	-48.01	-13.00	-35.01	-44.00	-4.01	Peak
3	7630.400	-40.58	-13.00	-27.58	-41.05	0.47	Peak
4	9538.000	-34.14	-13.00	-21.14	-37.35	3.21	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
= $107 + 20\log(1) - 104.8 = 2.2$ dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

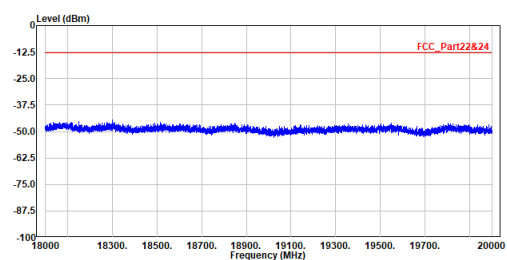
Site :HC-CB04
Condition :3m Vertical
Mode :WCDMA Band 2 CH9538
Test By :Cyril Chen



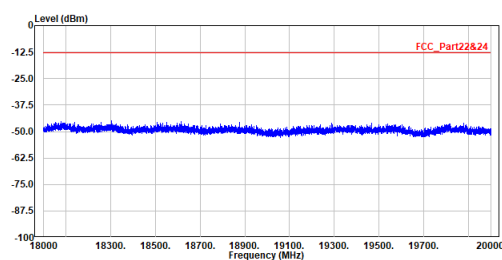
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	3815.200	-50.71	-13.00	-37.71	-42.91	-7.80	Peak
2	5722.800	-51.08	-13.00	-38.08	-47.07	-4.01	Peak
3	7630.400	-43.43	-13.00	-30.43	-43.90	0.47	Peak
4	9538.000	-37.86	-13.00	-24.86	-41.07	3.21	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
= $107 + 20\log(1) - 104.8 = 2.2$ dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04
Condition :1m Horizontal
Mode :WCDMA Band 2 CH9400 18G-20G
Test By :Ling Chen

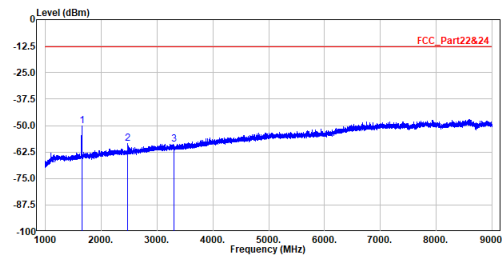


Site :HC-CB04
Condition :1m Vertical
Mode :WCDMA Band 2 CH9400 18G-20G
Test By :Ling Chen



Mode 2: WCDMA Band 5

Site :HC-CB04
Condition :3m Horizontal
Mode :WCDMA Band 5 CH4132
Test By :Cyril Chen

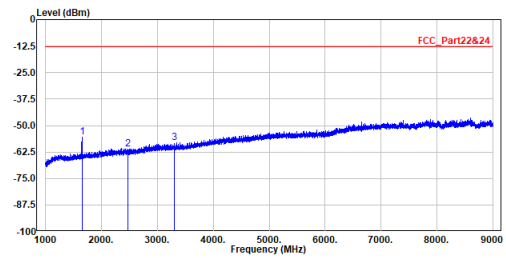


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1652.800	-59.16	-13.00	-37.16	-36.45	-13.71	Peak
2	2479.200	-58.34	-13.00	-45.34	-46.91	-11.43	Peak
3	3305.600	-59.04	-13.00	-46.04	-49.62	-9.42	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(1) - 104.8 = 2.2 \text{ dB}$
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :WCDMA Band 5 CH4132
Test By :Cyril Chen

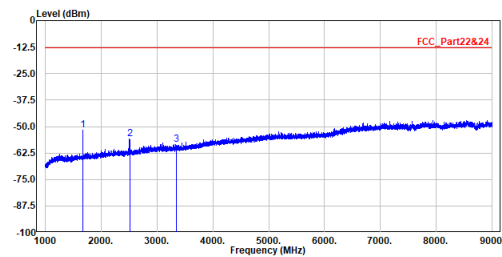


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1652.800	-55.47	-13.00	-42.47	-41.76	-13.71	Peak
2	2479.200	-61.00	-13.00	-48.00	-49.57	-11.43	Peak
3	3305.600	-58.16	-13.00	-45.16	-48.74	-9.42	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(1) - 104.8 = 2.2 \text{ dB}$
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04
Condition :3m Horizontal
Mode :WCDMA Band 5 CH4183
Test By :Cyril Chen

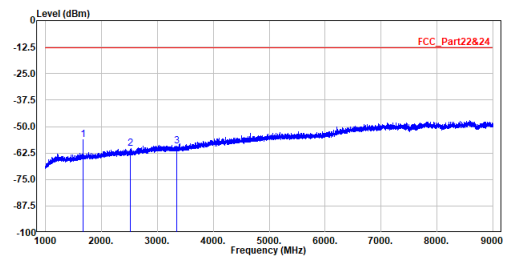


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1673.200	-51.89	-13.00	-38.89	-38.25	-13.64	Peak
2	2509.800	-55.93	-13.00	-42.93	-44.57	-11.36	Peak
3	3346.400	-58.68	-13.00	-45.68	-49.31	-9.37	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(1) - 104.8 = 2.2 \text{ dB}$
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :WCDMA Band 5 CH4183
Test By :Cyril Chen

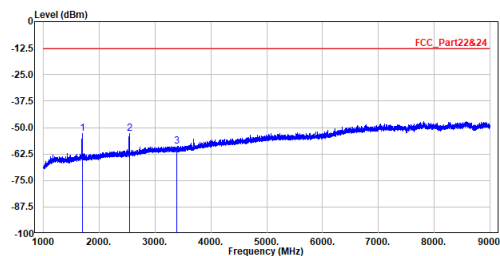


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1673.200	-56.17	-13.00	-43.17	-42.53	-13.64	Peak
2	2509.800	-60.55	-13.00	-47.55	-49.19	-11.36	Peak
3	3346.400	-59.28	-13.00	-46.28	-49.91	-9.37	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(1) - 104.8 = 2.2 \text{ dB}$
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04
 Condition :3m Horizontal
 Mode :WCDMA Band 5 CH4233
 Test By :Cyril Chen

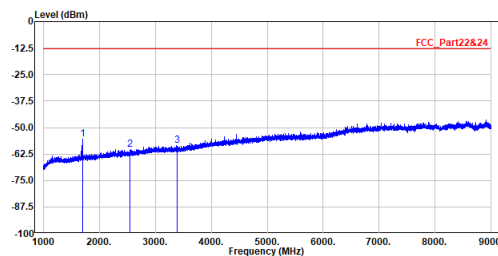


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1693.200	-52.78	-13.00	-39.78	-39.23	-13.55	Peak
2	2539.800	-52.69	-13.00	-39.69	-41.43	-11.26	Peak
3	3386.400	-58.86	-13.00	-45.86	-49.53	-9.33	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(1) - 104.8 = 2.2 \text{ dB}$
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HC-CB04
 Condition :3m Vertical
 Mode :WCDMA Band 5 CH4233
 Test By :Cyril Chen

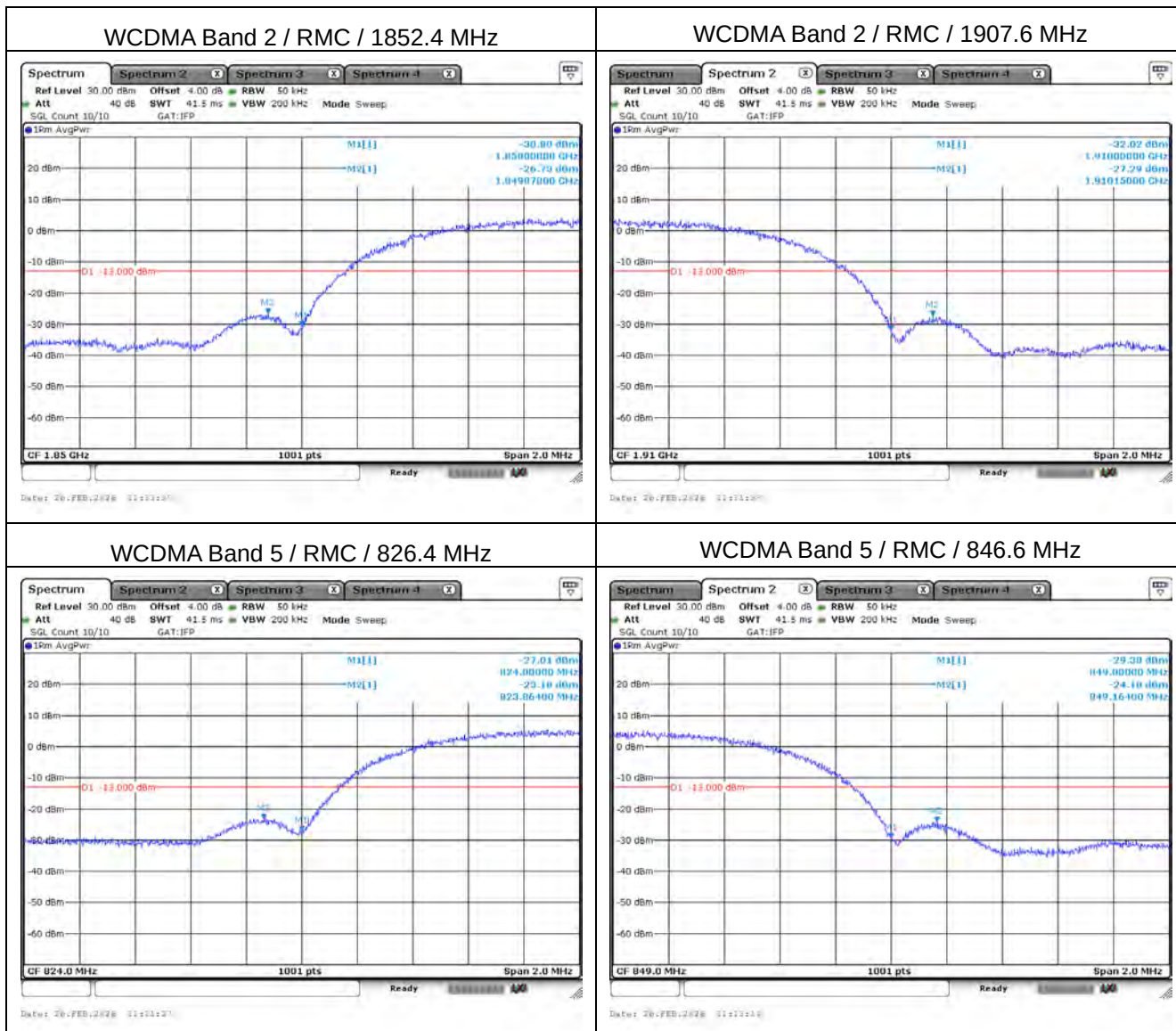


No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1693.200	-55.54	-13.00	-42.54	-41.99	-13.55	Peak
2	2539.800	-60.44	-13.00	-47.44	-49.18	-11.26	Peak
3	3386.400	-58.53	-13.00	-45.53	-49.20	-9.33	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuV/m) to EIRP (dBm)
 $= 107 + 20\log(1) - 104.8 = 2.2 \text{ dB}$
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Appendix E. Test Result of Conducted Band Edge



Appendix F. Test Result of Frequency Stability**WCDMA Band 2 / 1852.4 MHz**

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	0.12	0.0001
12.00	1.30	0.0007
10.20	1.27	0.0007

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.09	0.0006
-10	0.48	0.0003
0	1.36	0.0007
10	0.88	0.0005
20	-0.23	-0.0001
30	0.89	0.0005
40	1.28	0.0007
50	0.81	0.0004
60	1.18	0.0006
65	0.95	0.0005

WCDMA Band 2 / 1880 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.97	0.0010
12.00	2.12	0.0011
10.20	2.14	0.0011

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.22	0.0006
-10	1.86	0.0010
0	1.11	0.0006
10	2.59	0.0014
20	2.46	0.0013
30	2.14	0.0011
40	2.46	0.0013
50	0.82	0.0004
60	2.21	0.0012
65	0.76	0.0004

WCDMA Band 2 / 1907.6 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	-2.39	-0.0013
12.00	-1.56	-0.0008
10.20	-1.97	-0.0010

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	-2.37	-0.0012
-10	-2.26	-0.0012
0	-2.77	-0.0015
10	-1.58	-0.0008
20	-1.97	-0.0010
30	-2.26	-0.0012
40	-1.23	-0.0006
50	-1.85	-0.0010
60	-2.03	-0.0011
65	-0.38	-0.0004

WCDMA Band 5 / 826.4 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	-2.27	-0.00275
12.00	-1.29	-0.00156
10.20	-2.31	-0.00280

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	-1.76	-0.0021
-10	-3.23	-0.0039
0	-0.70	-0.0008
10	-1.66	-0.0020
20	-1.55	-0.0019
30	-1.91	-0.0023
40	-1.92	-0.0023
50	-1.03	-0.0012
60	-2.32	-0.0028
65	-1.65	-0.0020

WCDMA Band 5 / 836.6 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	2.49	0.0030
12.00	2.18	0.0026
10.20	1.32	0.0016

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	1.87	0.0022
-10	1.30	0.0016
0	1.56	0.0019
10	0.84	0.0010
20	2.51	0.0030
30	1.89	0.0023
40	2.27	0.0027
50	2.45	0.0029
60	1.59	0.0019
65	2.27	0.0027

WCDMA Band 5 / 846.6 MHz

Voltage (VDC)	Frequency Stability (Hz)	Frequency Stability (ppm)
13.80	1.25	0.0015
12.00	0.89	0.0011
10.20	0.64	0.0008

Temperature (°C)	Frequency Stability (Hz)	Frequency Stability (ppm)
-20	0.82	0.0010
-10	0.45	0.0005
0	-0.37	-0.0004
10	0.14	0.0002
20	0.64	0.0008
30	-0.24	-0.0003
40	0.91	0.0011
50	-0.11	-0.0001
60	1.38	0.0016
65	-0.38	-0.0004