



FCC RADIO TEST REPORT

FCC ID : UZ7-RTL10C1
Equipment : Tablet PC with Windows OS
Brand Name : Zebra
Model Name : RTL10C1
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Dec. 09, 2021 and testing was performed from Dec. 17, 2021 to Jan. 29, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



Table of Contents

History of this test report..... 3

Summary of Test Result..... 4

1 General Description 5

 1.1 Product Feature of Equipment Under Test 5

 1.2 Product Specification of Equipment Under Test 6

 1.3 Modification of EUT 6

 1.4 Maximum ERP/EIRP Power..... 6

 1.5 Testing Location 7

 1.6 Applicable Standards 7

2 Test Configuration of Equipment Under Test 8

 2.1 Test Mode..... 8

 2.2 Connection Diagram of Test System 9

 2.3 Support Unit used in test configuration 9

 2.4 Frequency List of Low/Middle/High Channels 9

3 Conducted Test Result 10

 3.1 Measuring Instruments..... 10

 3.2 Conducted Output Power and ERP/EIRP 11

4 Radiated Test Items 12

 4.1 Measuring Instruments..... 12

 4.2 Test Setup 12

 4.3 Test Result of Radiated Test..... 13

 4.4 Field Strength of Spurious Radiation Measurement 14

5 List of Measuring Equipment..... 15

6 Uncertainty of Evaluation 17

Appendix A. Test Results of Conducted Test

Appendix B. Test Results of Radiated Test

Appendix C. Test Setup Photographs



History of this test report

Report No.	Version	Description	Issue Date
FG181117A	01	Initial issue of report	Feb. 21, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(5)	Effective Radiated Power (WCDMA Band V)	Pass	
	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
-	§24.232 (d)	Peak-to-Average Ratio	-	See Note
-	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	25.36 dB under the limit at 5198.000 MHz

Remark: The module (Model: RM505Q-AE) makes no difference after verifying output power, this report reuses test data from the module report.

Declaration of Conformity:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Ruby Zou



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC with Windows OS
Brand Name	Zebra
Model Name	RTL10C1
FCC ID	UZ7-RTL10C1
Sample 1	XPAD
Sample 2	XSLATE
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	EV
SW Version	Windows 10 Pro
MFD	18OCT21
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
Adaptor with CLA cable	Brand Name	Zebra	Model Number	ADP-65JH HB
Battery	Brand Name	ZEBRA	Model Number	XLBM1
Power cord	Brand Name	Zebra	Model Number	450040

Supported Unit Used in Test Configuration and System				
Keyboard	Brand Name	Zebra	Model Number	L10-KB
98 Whr Extended Battery (Certified)	Brand Name	Zebra	Model Number	XLBE1
AEI LONG RANGE RFID MODULE	Brand Name	Zebra	Model Number	M6E-MICRO
PASSIVE SHORT STYLUS	Brand Name	Zebra	Model Number	440007
ET8X MPP 2.0 ACTIVE STYLUS WITH 5 REPLACEMENT TIPS. AAAA BATTERY INCLUDED	Brand Name	Zebra	Model Number	SG-ET8X-STYLUS1-01



1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx Frequency	WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz
Rx Frequency	WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
Maximum Output Power to Antenna	WCDMA: Band V: 23.31 dBm Band II: 23.59 dBm Band IV: 23.23 dBm
Antenna Type	Fixed Internal Antenna
Antenna Gain	<Main>: Cellular Band: 1.58 dBi <MIMO 1>: PCS Band: 2.04 dBi AWS Band: 2.86 dBi
Type of Modulation	WCDMA: QPSK (Uplink) HSDPA: 64QAM (Downlink) HSUPA: 16QAM (Uplink)

Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Maximum ERP/EIRP Power

FCC Rule	Frequency Range (MHz)	System	Type of Modulation	Maximum ERP/EIRP(W)
Part 22	826.4 ~846.6	WCDMA Band V RMC 12.2Kbps	QPSK	0.1879
Part 24	1852.4 ~1907.6	WCDMA Band II RMC 12.2Kbps	QPSK	0.3656
Part 27	1712.4 ~ 1752.6	WCDMA Band IV RMC 12.2Kbps	QPSK	0.4064



1.5 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH03-HY
Test Engineer	Oscar Chi
Temperature (°C)	21~24
Relative Humidity (%)	51~55

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu
Temperature (°C)	22.3~26.4
Relative Humidity (%)	58~66
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

1.6 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find X plane for PCS Band; Y plane for Cellular Band and AWS Band as worst plane.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 9000 MHz for WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for WCDMA Band II

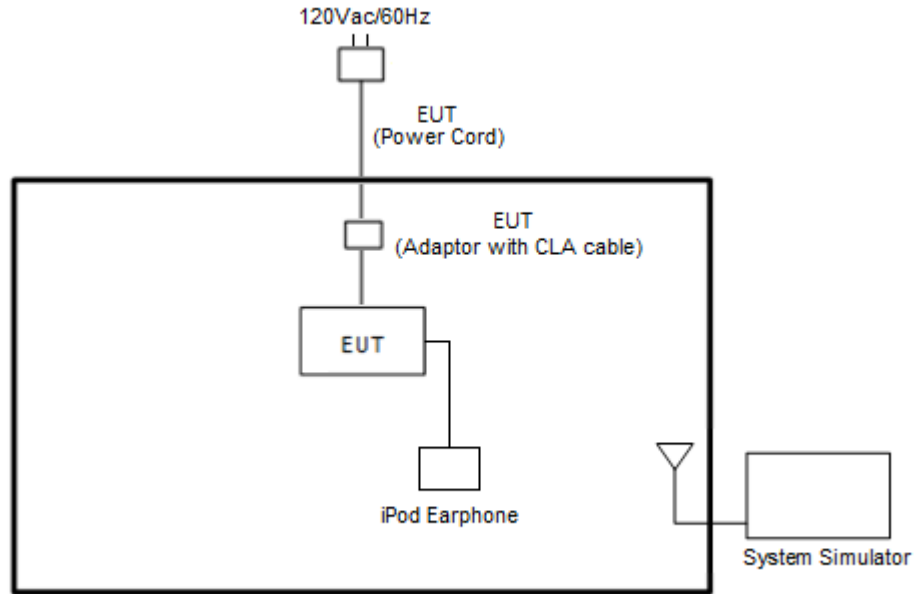
All modes, data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

Remark: All the radiated test cases were performed with Sample 1.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.4 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

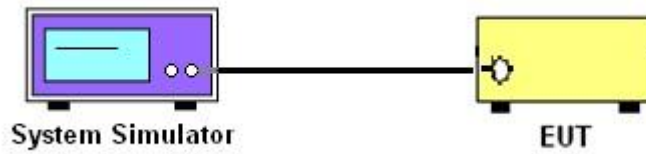
3 Conducted Test Result

3.1 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.2.2 Test Procedures

1. The transmitter output port is connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

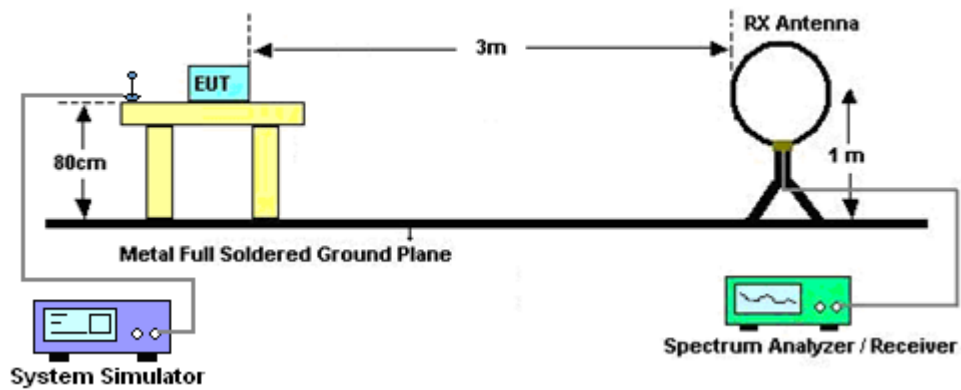
4 Radiated Test Items

4.1 Measuring Instruments

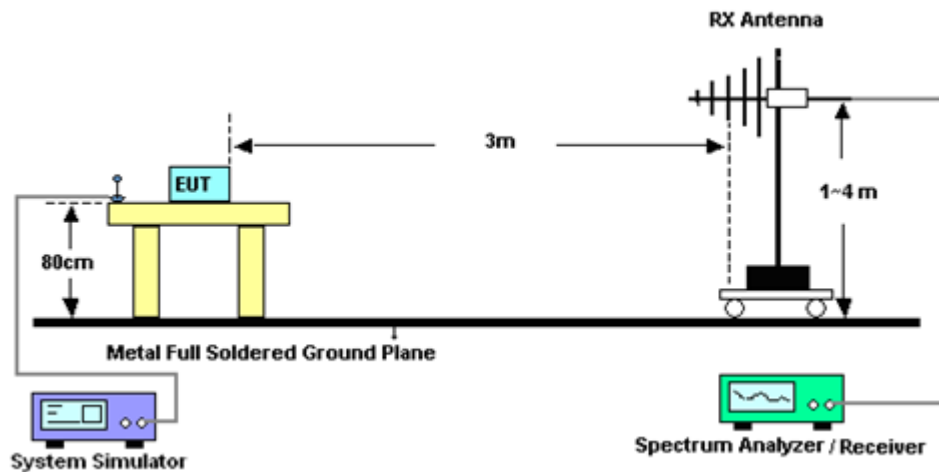
Please refer to the measuring equipment list in this test report.

4.2 Test Setup

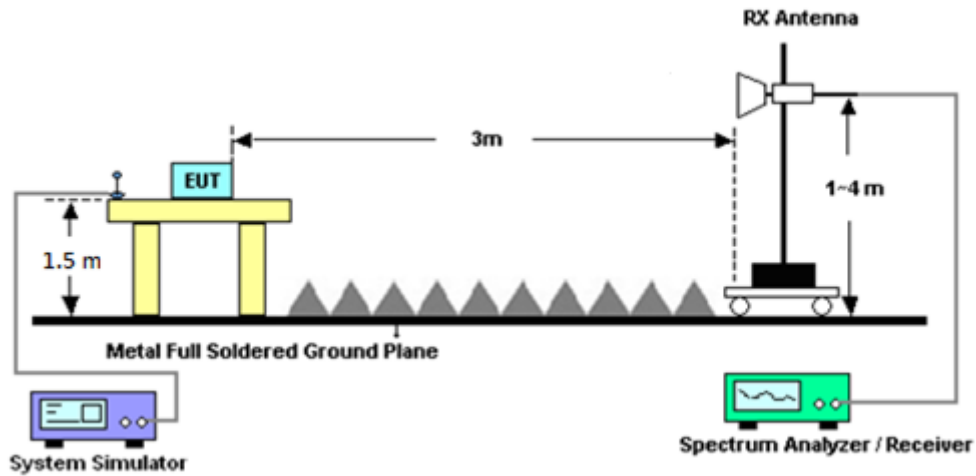
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT is placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the antenna tower.
3. The table is rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. A horn antenna is substituted in place of the EUT and is driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Take the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11. $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.
13. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Jan. 13, 2022~ Jan. 29, 2022	Jan. 06, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Jan. 13, 2022~ Jan. 29, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Jan. 13, 2022~ Jan. 29, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Oct. 25, 2021	Jan. 13, 2022~ Jan. 29, 2022	Oct. 24, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 18, 2021	Jan. 13, 2022~ Jan. 29, 2022	May 17, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 30, 2021	Jan. 13, 2022~ Jan. 29, 2022	Nov. 29, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917057 6	18GHz~40GHz	May 21, 2021	Jan. 13, 2022~ Jan. 29, 2022	May 20, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 25, 2021	Jan. 13, 2022~ Jan. 29, 2022	May 24, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz~18GHz	Dec. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Dec. 21, 2022	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Jun. 21, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010B	MY60240520	10Hz~44GHz	Dec. 23, 2021	Jan. 13, 2022~ Jan. 29, 2022	Dec. 22, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Jan. 13, 2022~ Jan. 29, 2022	Feb. 21, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 OSS	SN1	1.2GHz High Pass Filter	Mar. 17, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OST	SN2	3GHz High Pass Filter	Jul. 12, 2021	Jan. 13, 2022~ Jan. 29, 2022	Jul. 11, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 17, 2021	Jan. 13, 2022~ Jan. 29, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Sep. 30, 2021	Jan. 13, 2022~ Jan. 29, 2022	Sep. 29, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Jan. 13, 2022~ Jan. 29, 2022	N/A	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 01, 2021	Dec. 17, 2021	Feb. 28, 2022	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 30, 2021	Dec. 17, 2021	Sep. 29, 2022	Conducted (TH03-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	LHU-113	1012005860	-20°C ~85°C	Jan. 18, 2021	Dec. 17, 2021	Jan. 17, 2022	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 06, 2021	Dec. 17, 2021	Oct. 05, 2022	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Jul. 13, 2021	Dec. 17, 2021	Jul. 12, 2022	Conducted (TH03-HY)
Power Divider	Warison	WCOU-0.4-26.5S-20	#A	N/A	Nov. 01, 2021	Dec. 17, 2021	Oct. 31, 2022	Conducted (TH03-HY)



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.10 dB
---	---------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.39 dB
---	---------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.34 dB
---	---------



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) & ERP / EIRP

WCDMA Band V Maximum Average Power [dBm] (GT - LC = 1.58 dB)					
Channel	4132	4182	4233	ERP (dBm)	ERP (W)
Frequency	826.4	836.4	846.6		
RMC 12.2K	23.21	23.31	23.30	22.74	0.1879
HSDPA Subtest-1	22.13	22.31	22.26		
HSDPA Subtest-2	22.09	22.29	22.23		
HSDPA Subtest-3	21.52	21.79	21.76		
HSDPA Subtest-4	21.51	21.80	21.77		
HSUPA Subtest-1	22.11	22.25	22.07		
HSUPA Subtest-2	20.10	20.28	20.08		
HSUPA Subtest-3	20.97	21.26	21.21		
HSUPA Subtest-4	20.13	20.27	20.16		
HSUPA Subtest-5	22.01	22.30	22.09		
Limit	ERP < 7W				

WCDMA Band II Maximum Average Power [dBm] (GT - LC = 2.04 dB)					
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)
Frequency	1852.4	1880	1907.6		
RMC 12.2K	23.59	23.51	23.47	25.63	0.3656
HSDPA Subtest-1	22.48	22.55	22.38		
HSDPA Subtest-2	22.60	22.54	22.35		
HSDPA Subtest-3	22.07	22.04	21.86		
HSDPA Subtest-4	21.92	22.04	21.90		
HSUPA Subtest-1	22.60	22.54	22.34		
HSUPA Subtest-2	20.09	20.13	20.22		
HSUPA Subtest-3	21.86	21.87	21.70		
HSUPA Subtest-4	20.57	20.63	20.53		
HSUPA Subtest-5	22.58	22.53	22.36		
Limit	EIRP < 2W				

WCDMA Band IV Maximum Average Power [dBm] (GT - LC = 2.86 dB)					
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)
Frequency	1712.4	1732.6	1752.6		
RMC 12.2K	23.00	23.10	23.23	26.09	0.4064
HSDPA Subtest-1	22.06	22.08	22.21		
HSDPA Subtest-2	22.13	22.04	22.07		
HSDPA Subtest-3	21.63	21.57	21.60		
HSDPA Subtest-4	21.61	21.53	21.62		
HSUPA Subtest-1	22.13	22.01	22.14		
HSUPA Subtest-2	20.05	20.00	20.11		
HSUPA Subtest-3	21.17	21.26	21.35		
HSUPA Subtest-4	20.16	20.31	20.31		
HSUPA Subtest-5	22.28	22.26	22.31		
Limit	EIRP < 1W				



Appendix B. Test Results of Radiated Test

WCDMA 850

WCDMA 850									
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	1656	-59.43	-13	-46.43	-69.1	-65.05	0.92	8.69	H
	2480	-54.31	-13	-41.31	-68.25	-61.69	1.15	10.67	H
	3305	-54.69	-13	-41.69	-70.74	-63.25	1.32	12.03	H
									H
									H
	1656	-60.90	-13	-47.90	-70	-66.52	0.92	8.69	V
	2480	-55.32	-13	-42.32	-69.43	-62.70	1.15	10.67	V
	3305	-54.34	-13	-41.34	-70.86	-62.90	1.32	12.03	V
									V
									V
Middle	1672	-59.11	-13	-46.11	-68.83	-64.79	0.93	8.75	H
	2509	-53.50	-13	-40.50	-67.46	-60.91	1.15	10.71	H
	3344	-54.92	-13	-41.92	-70.9	-63.56	1.33	12.13	H
									H
									H
	1672	-58.18	-13	-45.18	-67.27	-63.86	0.93	8.75	V
	2512	-53.56	-13	-40.56	-67.71	-60.97	1.15	10.71	V
	3344	-54.35	-13	-41.35	-70.78	-62.99	1.33	12.13	V
									V
									V



Highest	1696	-60.07	-13	-47.07	-69.84	-65.83	0.94	8.84	H
	2536	-56.63	-13	-43.63	-70.59	-64.06	1.16	10.74	H
	3384	-54.83	-13	-41.83	-70.73	-63.56	1.34	12.22	H
									H
									H
	1696	-61.01	-13	-48.01	-70.07	-66.77	0.94	8.84	V
	2536	-56.53	-13	-43.53	-70.62	-63.96	1.16	10.74	V
	3384	-54.37	-13	-41.37	-70.71	-63.10	1.34	12.22	V
									V
									V

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



WCDMA 1700

WCDMA 1700									
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	3427	-54.25	-13	-41.25	-71.13	-65.23	1.35	12.32	H
	5135	-38.84	-13	-25.84	-60.41	-49.98	1.65	12.79	H
	6850	-46.16	-13	-33.16	-71.62	-56.53	1.74	12.11	H
									H
									H
	3427	-51.49	-13	-38.49	-68.78	-62.47	1.35	12.32	V
	5135	-42.47	-13	-29.47	-63.79	-53.61	1.65	12.79	V
	6850	-46.73	-13	-33.73	-71.78	-57.10	1.74	12.11	V
									V
									V
Middle	3462	-53.94	-13	-40.94	-71.18	-65.00	1.35	12.41	H
	5198	-44.18	-13	-31.18	-65.79	-55.40	1.66	12.88	H
	6927	-45.87	-13	-32.87	-71.71	-56.14	1.73	12.00	H
									H
									H
	3462	-51.06	-13	-38.06	-68.69	-62.12	1.35	12.41	V
	5198	-38.36	-13	-25.36	-59.81	-49.58	1.66	12.88	V
	6927	-46.05	-13	-33.05	-71.44	-56.32	1.73	12.00	V
									V
									V



Highest	3504	-53.68	-13	-40.68	-71.34	-64.82	1.36	12.50	H
	5254	-49.72	-13	-36.72	-71.54	-61.00	1.68	12.96	H
	7011	-45.42	-13	-32.42	-71.68	-55.58	1.73	11.88	H
									H
									H
	3504	-53.30	-13	-40.30	-71.31	-64.44	1.36	12.50	V
	5254	-49.74	-13	-36.74	-71.33	-61.02	1.68	12.96	V
	7011	-46.25	-13	-33.25	-72.02	-56.41	1.73	11.88	V
									V
									V

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



WCDMA 1900

WCDMA 1900									
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	3708	-52.75	-13	-39.75	-71.32	-63.96	1.41	12.62	H
	5557	-49.36	-13	-36.36	-72.25	-60.92	1.74	13.30	H
	7410	-44.97	-13	-31.97	-71.93	-54.27	1.94	11.24	H
									H
									H
	3708	-52.37	-13	-39.37	-71.09	-63.58	1.41	12.62	V
	5557	-50.28	-13	-37.28	-72.72	-61.84	1.74	13.30	V
	7410	-45.03	-13	-32.03	-71.84	-54.33	1.94	11.24	V
									V
									V
Middle	3762	-52.75	-13	-39.75	-71.45	-63.98	1.43	12.66	H
	5640	-48.94	-13	-35.94	-71.89	-60.51	1.73	13.30	H
	7518	-45.86	-13	-32.86	-72.35	-54.97	1.99	11.10	H
									H
									H
	3762	-52.21	-13	-39.21	-71.13	-63.44	1.43	12.66	V
	5640	-49.34	-13	-36.34	-71.88	-60.91	1.73	13.30	V
	7518	-45.81	-13	-32.81	-72.26	-54.92	1.99	11.10	V
									V
									V



Highest	3816	-52.30	-13	-39.30	-71.11	-63.55	1.44	12.69	H
	5722	-48.96	-13	-35.96	-72.3	-60.53	1.73	13.30	H
	7632	-46.02	-13	-33.02	-72.09	-55.14	2.01	11.13	H
									H
									H
	3816	-52.30	-13	-39.30	-71.35	-63.55	1.44	12.69	V
	5722	-49.24	-13	-36.24	-71.96	-60.81	1.73	13.30	V
	7632	-46.11	-13	-33.11	-72.09	-55.23	2.01	11.13	V
									V
									V

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