

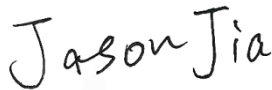
FCC RF Test Report

APPLICANT : Veea Inc.
EQUIPMENT : Wireless Edge Server
BRAND NAME : VeeaHub
MODEL NAME : VHC25-5G
FCC ID : 2ARXK-VHC25-5G
STANDARD : 47 CFR Part 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Jul. 23, 2024 ~ Sep. 11, 2024

This product installed a RF module (Brand Name: Quectel, Model Name: RM520N-GL, FCC ID: XMR2022RM520NGL) during the test, only Conducted Power, ERP and RSE test items are tested in this report, all the other test results are leveraged from module RF report.

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.



Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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History of this test report

Report No.	Version	Description	Issued Date
FG452231N	01	Initial issue of report	Sep. 18, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.3	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
-	§2.1049 §96.41	Occupied Bandwidth	Reporting only	1
-	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	1
-	§2.1051 §96.41	Conducted Spurious Emission	Pass	1
-	§2.1055	Frequency Stability for Temperature & Voltage	Pass	1
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 11.49 dB at 14306.000 MHz

Remark 1: All test results were leveraged from module RF report which can refer to Report No “FYCR220600021102”.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

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



1 General Description

1.1 Applicant

Veea Inc.
164 E 83rd Street, NEW YORK, United States 10028

1.2 Manufacturer

Veea Inc.
164 E 83rd Street, NEW YORK, United States 10028

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Edge Server
Brand Name	VeeaHub
Model Name	VHC25-5G
FCC ID	2ARXK-VHC25-5G
Tx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
Rx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
SCS	30kHz
Bandwidth	10MHz / 20MHz / 30MHz / 40MHz
Antenna Gain	<Ant. 0> : 3.23 dBi <Ant. 2> : 2.84 dBi
Type of Modulation	DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM)
SN Code	Radiation: C25DCW00000000006145
HW Version	1.0
SW Version	2.33.1-0.mfg.alpha.4.0.7
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP of Antenna 2 is shown in the report.
3. 5G NR n48 support SA and NSA mode.
4. The EN-DC mode combination could be referred to the product spec.

1.4 Maximum EIRP Power and Emission Designator

5G NR n48		PI/2 BPSK / QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
10	3555.00~3694.98	0.1706	0.1406
20	3560.01~3690.00	0.1807	0.1462
30	3565.02~3684.99	0.1841	0.1472
40	3570.00~3679.98	0.1875	0.1528

1.5 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24a1

1.7 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ 47 CFR Part 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

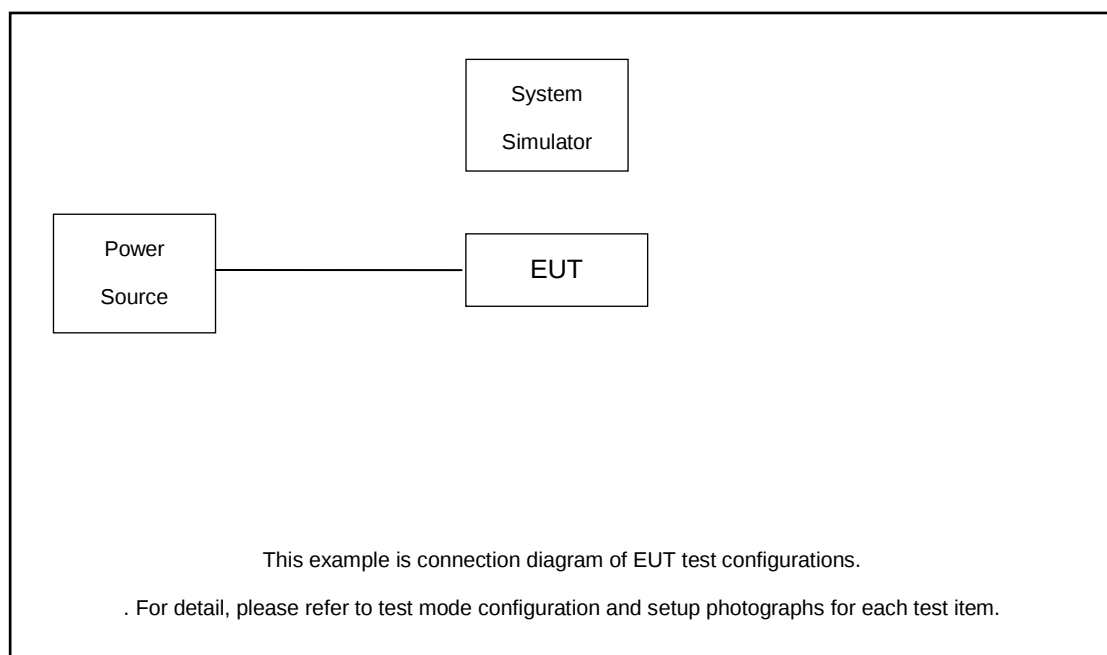
2.1 Test Mode

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

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

Test Items	Band	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n48	-	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v
E.I.R.P.	n48	-	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Frequency Stability	n48	-		-	v				v					v		v	
Radiated Spurious Emission	n48	Worst Case														v	
Remark	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All test items are based on engineering evaluation. 5. Frequency Stability: Normal Voltage = 12.0V ; Low Voltage =11.4V.; High Voltage =12.6V																

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

5G NR n48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637668	641666	645666
	Frequency	3565.02	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of 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

3.2.1 Description of the Conducted Output Power Measurement

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

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.3 EIRP

3.3.1 Description of the EIRP Measurement

EIRP limits for CBRS equipment as below table:

Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
Applied	End User Device	23	n/a
☐	Category A CBSD	30	20
☐	Category B CBSD	47	37

Remark:

1. The worst case EIRP shown in this section is found with NR operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for NR n48 (i.e. 10, 20, 30, 40MHz)

3.3.2 Test Procedures for EIRP

1. Establishing a communications link with the call box (Base station) to measure the Maximum conducted power, the parameters were set to force the EUT transmitting at maximum output power level. Use the average power measurement function to measure total channel power of each channel bandwidth (per ANSI C63.26-2015 Section 5.2.1)
2. Determining ERP and/or EIRP from conducted RF output power measurements (Per ANSI C63.26-2015 Section 5.2.5.5)

$$\text{EIRP} = P_T + G_T - L_C, \text{ ERP} = \text{EIRP} - 2.15, \text{ where}$$

$$P_T = \text{transmitter output power in dBm}$$

$$G_T = \text{gain of the transmitting antenna in dBi}$$

$$L_C = \text{signal attenuation in the connecting cable between the transmitter and antenna in dB}$$

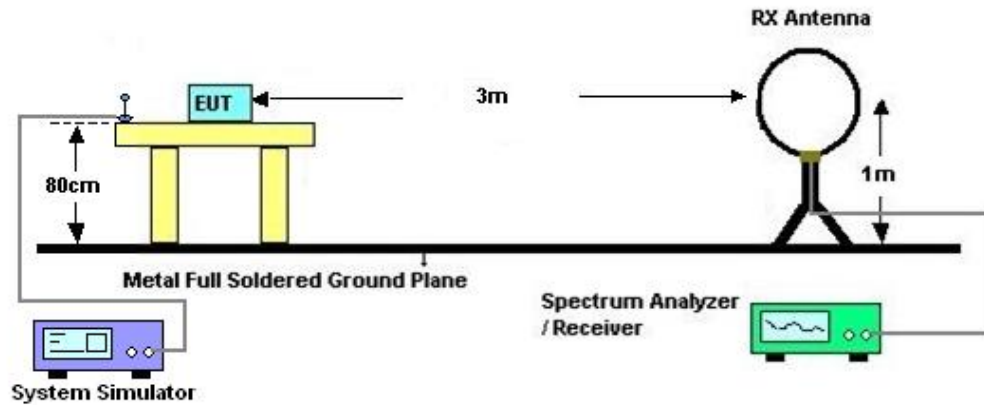
4 Radiated Test Items

4.1 Measuring Instruments

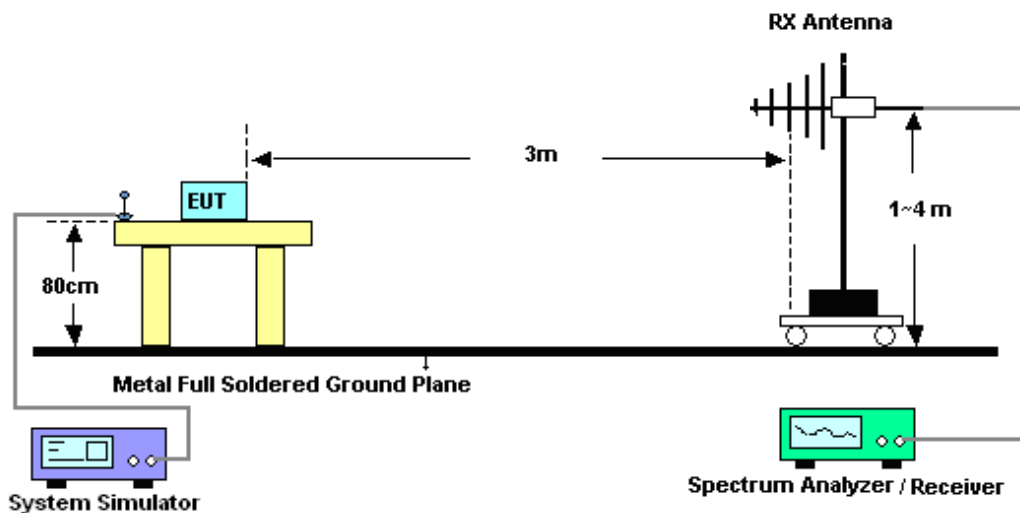
See list of measuring instruments of this test report.

4.2 Test Setup

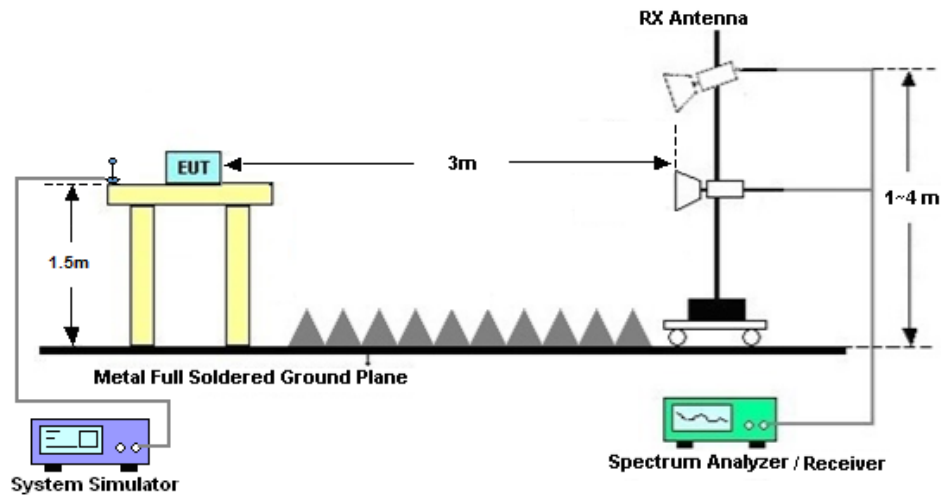
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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 -40dBm / MHz.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is -40dBm/MHz



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Sep. 11, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Sep. 11, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Jul. 23, 2024	Dec. 28, 2024	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 20, 2023	Jul. 23, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Jul. 23, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jul. 23, 2024	Jul. 02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 09, 2024	Jul. 23, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Jul. 23, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Jul. 23, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 23, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 23, 2024	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 1.34 dB

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	± 3.0 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	± 3.6 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	± 3.8 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zhen	Temperature :	22~23°C
		Relative Humidity :	40~42%

Transmitter Conducted Output Power And EIRP, (GT - LC)=2.84db

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
48	30	10	637000	3555	DFT-s-OFDM QPSK	1@1	19.46	22.3	0.1698
48	30	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	18.64	21.48	0.1406
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.45	22.29	0.1694
48	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	18.6	21.44	0.1393
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	19.48	22.32	0.1706
48	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	18.61	21.45	0.1396
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	19.73	22.57	0.1807
48	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	18.81	21.65	0.1462
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.63	22.47	0.1766
48	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	18.62	21.46	0.1400
48	30	20	646000	3690	DFT-s-OFDM QPSK	1@1	19.39	22.23	0.1671
48	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	18.47	21.31	0.1352
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@1	19.73	22.57	0.1807
48	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@1	18.78	21.62	0.1452
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.81	22.65	0.1841
48	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	18.84	21.68	0.1472
48	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	19.55	22.39	0.1734
48	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	18.63	21.47	0.1403
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	50@25	19.76	22.6	0.1820
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@1	19.89	22.73	0.1875
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@104	19.85	22.69	0.1858
48	30	40	638000	3570	DFT-s-OFDM QPSK	50@25	19.75	22.59	0.1816
48	30	40	638000	3570	DFT-s-OFDM QPSK	1@1	19.68	22.52	0.1786
48	30	40	638000	3570	DFT-s-OFDM QPSK	1@104	19.82	22.66	0.1845
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	50@25	18.74	21.58	0.1439
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	18.93	21.77	0.1503
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@104	19	21.84	0.1528
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	50@25	17.3	20.14	0.1033



48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@1	17.36	20.2	0.1047
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@104	17.39	20.23	0.1054
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	50@25	15.27	18.11	0.0647
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@1	15.13	17.97	0.0627
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@104	15.25	18.09	0.0644
48	30	40	638000	3570	CP-OFDM QPSK	53@26	18.33	21.17	0.1309
48	30	40	638000	3570	CP-OFDM QPSK	1@1	18.24	21.08	0.1282
48	30	40	638000	3570	CP-OFDM QPSK	1@104	18.3	21.14	0.1300
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@25	19.65	22.49	0.1774
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	19.82	22.66	0.1845
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@104	19.69	22.53	0.1791
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	50@25	19.66	22.5	0.1778
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	19.65	22.49	0.1774
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@104	19.63	22.47	0.1766
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	50@25	18.89	21.73	0.1489
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	18.89	21.73	0.1489
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@104	18.86	21.7	0.1479
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	50@25	17.17	20.01	0.1002
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	17.37	20.21	0.1050
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@104	17.32	20.16	0.1038
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	50@25	15.16	18	0.0631
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	15.15	17.99	0.0630
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@104	15.01	17.85	0.0610
48	30	40	641666	3624.99	CP-OFDM QPSK	53@26	18.16	21	0.1259
48	30	40	641666	3624.99	CP-OFDM QPSK	1@1	18.23	21.07	0.1279
48	30	40	641666	3624.99	CP-OFDM QPSK	1@104	18.18	21.02	0.1265
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	50@25	19.5	22.34	0.1714
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	19.58	22.42	0.1746
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@104	19.7	22.54	0.1795
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	50@25	19.49	22.33	0.1710
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	19.38	22.22	0.1667
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@104	19.64	22.48	0.1770
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	50@25	18.5	21.34	0.1361
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	18.53	21.37	0.1371
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@104	18.87	21.71	0.1483
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	50@25	17.02	19.86	0.0968



48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	17.04	19.88	0.0973
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@104	17.29	20.13	0.1030
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	50@25	14.96	17.8	0.0603
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	14.81	17.65	0.0582
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@104	15.04	17.88	0.0614
48	30	40	645332	3679.98	CP-OFDM QPSK	53@26	18.01	20.85	0.1216
48	30	40	645332	3679.98	CP-OFDM QPSK	1@1	17.94	20.78	0.1197
48	30	40	645332	3679.98	CP-OFDM QPSK	1@104	18.22	21.06	0.1276

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jia Kuang	Temperature :	22~25°C
		Relative Humidity :	48~52%

SA n48 / 40MHz / QPSK / ANT2									
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)
Middle	7212.80	-58.68	-40	-18.68	-51.22	-61.98	8.30	11.60	H
	10819.20	-54.81	-40	-14.81	-53.78	-56.33	10.48	12.00	H
	14425.60	-53.21	-40	-13.21	-54.26	-54.91	11.80	13.50	H
	7212.80	-58.10	-40	-18.10	-51.46	-61.40	8.30	11.60	V
	10819.20	-53.91	-40	-13.91	-52.38	-55.43	10.48	12.00	V
	14425.60	-51.89	-40	-11.89	-54.52	-53.59	11.80	13.50	V

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

DC_13A_n48A / LTE 10MHz + NR 40MHz / QPSK(0+2)									
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)
NR n48 Middle	7153.00	-58.68	-40	-18.68	-50.99	-61.98	8.30	11.60	H
	10729.50	-55.78	-40	-15.78	-54.55	-57.30	10.48	12.00	H
	14306.00	-55.88	-40	-15.88	-56.76	-57.58	11.80	13.50	H
	7153.00	-58.09	-40	-18.09	-51.09	-61.39	8.30	11.60	V
	10729.50	-56.28	-40	-16.28	-54.48	-57.80	10.48	12.00	V
	14306.00	-51.49	-40	-11.49	-53.74	-53.19	11.80	13.50	V
LTE Band13 Middle	1555	-66.65	-13	-53.65	-46.71	-69.90	4.00	9.40	H
	2332.5	-67.25	-13	-54.25	-49.07	-70.82	4.88	10.60	H
	3110	-65.17	-13	-52.17	-49.06	-70.10	5.52	12.60	H
	1555	-68.24	-13	-55.24	-48.07	-71.49	4.00	9.40	V
	2332.5	-67.23	-13	-54.23	-49.08	-70.80	4.88	10.60	V
	3110	-65.17	-13	-52.17	-48.87	-70.10	5.52	12.60	V

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