

Report No.: SHEM190701526401

Page: 1 of 41

TEST REPORT

Application No.: SHEM1907015264CR

FCC ID: 2ADTD-AEB1

Applicant: Hangzhou Hikvision Digital Technology Co.,Ltd.

Address of Applicant: No. 555, Qianmo Road, Binjiang District,Hangzhou

Hangzhou Hikvision Digital Technology Co.,Ltd.

Address of Manufacturer: No. 555, Qianmo Road, Binjiang District,Hangzhou

Factory: Hangzhou Hikvision Technology Co., Ltd.

Address of Factory: No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang

Equipment Under Test (EUT):

EUT Name: DashCam

Model No.: AE-DC2015-B1, AE-DC2015-B1 S, AE-DC2015-B1 Pro, AE-DC2015-B1+ ¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: HIKVISION

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2019-07-18

Date of Test: 2019-07-29 to 2019-07-29

Date of Issue: 2019-08-05

Test Result: Pass*

parlan 2han

Parlam Zhan E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

检验检测专用章 Sensection & Testing Services

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, resemble (SM Doceane).

NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 中国・上海・松江区金都西路588号 邮编: 201612 t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SHEM190701526401

Page: 2 of 41

Revision Record							
Version Description Date Remark							
00	Original	2019-08-05	1				

Authorized for issue by:		
	Vincent Zhu	
	Vincent Zhu / Project Engineer	
	Parlam Zhan	
	Parlam Zhan / Reviewer	



Report No.: SHEM190701526401

Page: 3 of 41

2 Test Summary

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Customer Declaration		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Conducted average Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.3	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass		

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report and they are the similar in electrical and electronic characters. Only the model AE-DC2015-B1 was tested since their differences are silk or trade name or their naming deviation.



Report No.: SHEM190701526401

Page: 4 of 41

3 Contents

1	CO/	/ER PAGE	Page 1
2	TES	T SUMMARY	3
3	CON	NTENTS	4
4	GEN	NERAL INFORMATION	5
	4.1 4.2	DETAILS OF E.U.TPOWER LEVEL SETTING USING IN TEST	
	4.2 4.3	DESCRIPTION OF SUPPORT UNITS	_
	4.4	MEASUREMENT UNCERTAINTY	
	4.5 4.6	TEST LOCATION	
	4.0 4.7	DEVIATION FROM STANDARDS	
	4.8	ABNORMALITIES FROM STANDARD CONDITIONS	
5	EQU	JIPMENT LIST	8
6	RAD	DIO SPECTRUM TECHNICAL REQUIREMENT	g
•	6.1	ANTENNA REQUIREMENT	
7	RAD	DIO SPECTRUM MATTER TEST RESULTS	10
	7.1	MINIMUM 6DB BANDWIDTH	10
	7.2	CONDUCTED AVERAGE OUTPUT POWER	
	7.3	POWER SPECTRUM DENSITY	
	7.4 7.5	CONDUCTED BAND EDGES MEASUREMENT	
	7.5 7.6	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	
	7.7	RADIATED SPURIOUS EMISSIONS	
8	PHC	OTOGRAPHS	41
9	TES	ST SETUP PHOTOGRAPHS	41
11	n EllT	CONSTRUCTIONAL DETAILS	11



Report No.: SHEM190701526401

Page: 5 of 41

4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V by USB port

Car Charger:

Model.:TC16A-0503100D

Input:DC12V-24V

Output:DC 5V 2.1A, 1A

Test voltage: DC 12V

Cable: DC Cable 4m

Antenna Gain 1.52 dBi

Antenna Type PCB Antenna

Channel Spacing 5MHz

Modulation Type 802.11b: DSSS (CCK, DQPSK, DBPSK)

802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Number of Channels 802.11b/g/n(HT20):11

Operation Frequency 802.11b/g/n(HT20): 2412MHz to 2462MHz

4.2 Power level setting using in test

Channel	802.11b	802.11g	802.11n(HT20)
1	43	53	52
6	43	53	52
11	43	53	52

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/



Report No.: SHEM190701526401

Page: 6 of 41

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	±8.4 x 10 ⁻⁸
2	Timeout	±2s
3	Duty cycle	±0.37%
4	Occupied Bandwidth	±3%
5	RF conducted power	±0.6dB
6	RF power density	±2.84dB
7	Conducted Spurious emissions	±0.75dB
0	DE Dodieted nover	±4.6dB (Below 1GHz)
8	RF Radiated power	±4.1dB (Above 1GHz)
		±4.2dB (Below 30MHz)
0	Dedicted Courieus amission test	±4.4dB (30MHz-1GHz)
9	Radiated Spurious emission test	±4.8dB (1GHz-18GHz)
		±5.2dB (Above 18GHz)
10	Temperature test	±1°C
11	Humidity test	±3%
12	Supply voltages	±1.5%
13	Time	±3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



Report No.: SHEM190701526401

Page: 7 of 41

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xingiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• NVLAP (Certificate No. 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

• FCC -Designation Number: CN5033

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC Registration No.: 8617A-1. CAB identifier: CN0020.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



Report No.: SHEM190701526401

Page: 8 of 41

5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2018-12-20	2019-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2018-08-13	2019-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2018-08-13	2019-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2018-08-13	2019-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2018-08-13	2019-08-12
Switcher	Tonscend	JS0806	SHEM184-1	2018-08-13	2019-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2018-08-13	2019-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-25	2020-09-24
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2018-12-26	2019-12-25
DC Power Supply	MCN	MCH-303A	SHEM210-1	2018-12-26	2019-12-25
Conducted test Cable	/	RF01~RF04	/	2018-12-26	2019-12-25
Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2018-12-20	2019-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2018-12-20	2019-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001	SHEM164-1	2018-08-13	2019-08-12
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118	SHEM050-2	2018-08-13	2019-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2018-12-20	2019-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2018-08-13	2019-08-12
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	1	1
High pass Filter	Wainwright	WHKS1700	SHEM157-3	1	1
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2018-12-26	2019-12-25



Report No.: SHEM190701526401

Page: 9 of 41

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is PCB Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.52dBi.





Report No.: SHEM190701526401

Page: 10 of 41

Radio Spectrum Matter Test Results 7

7.1 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.1.1 E.U.T. Operation

Operating Environment:

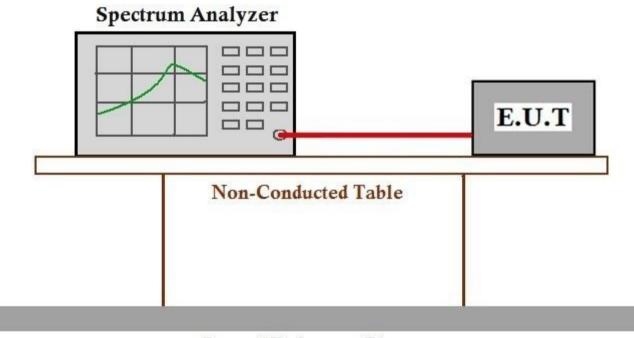
Temperature: 22 Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20). Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM190701526401



Report No.: SHEM190701526401

Page: 11 of 41

7.2 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation		
5725-5850	1 for frequency hopping systems and digital modulation		

7.2.1 E.U.T. Operation

Operating Environment:

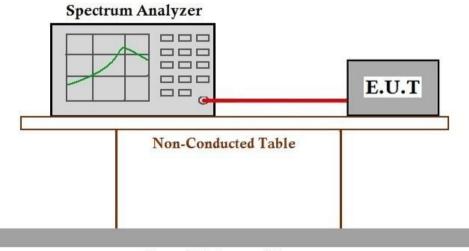
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE

802.11n(HT20). Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM190701526401

NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 中国・上海 ・松江区金都西路588号 邮编: 201612 t(86-21)61915666 f(86-21)61915678 www.sgsgroup.com.cn t(86-21)61915666 f(86-21)61915678 e sgs.china@sgs.com



Report No.: SHEM190701526401

Page: 12 of 41

7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.3

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

7.3.1 E.U.T. Operation

Operating Environment:

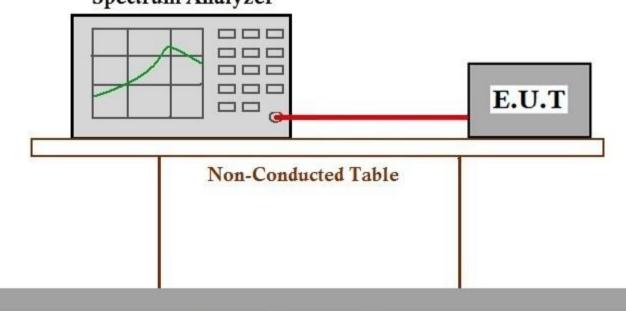
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram

Spectrum Analyzer



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM190701526401



Report No.: SHEM190701526401

Page: 13 of 41

7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit: In any 100 kHz bandwidth outside t

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in

§15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)

7.4.1 E.U.T. Operation

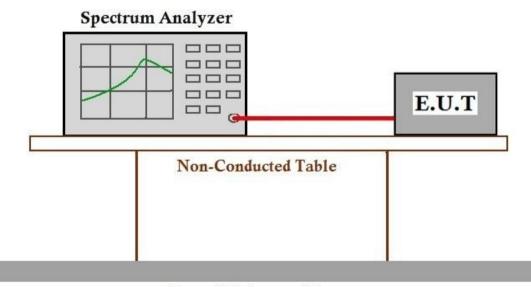
Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM190701526401

NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 中国・上海・松江区金都西路588号 邮编:201612



Report No.: SHEM190701526401

Page: 14 of 41

7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in

§15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)

7.5.1 E.U.T. Operation

Operating Environment:

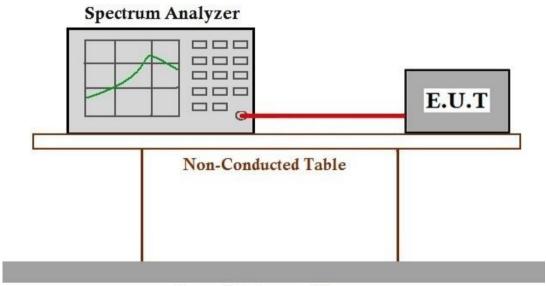
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20). Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM190701526401

NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 t(88-21) 61915666 f(88-21) 61915678 www.sgsgroup.com.cn 中国・上海・松江区金都西路588号 邮编: 201612 t(88-21) 61915666 f(88-21) 61915678 e sgs.china@sgs.com



Report No.: SHEM190701526401

Page: 15 of 41

7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE

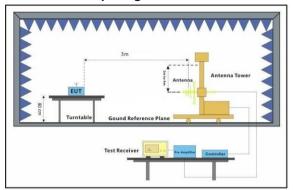
802.11n(HT20). Only the data of worst case is recorded in the report.

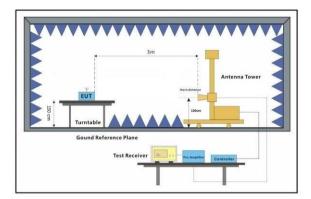


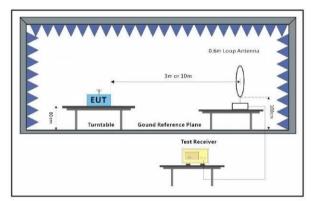
Report No.: SHEM190701526401

Page: 16 of 41

7.6.2 Test Setup Diagram







SGS

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

Report No.: SHEM190701526401

Page: 17 of 41

7.6.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

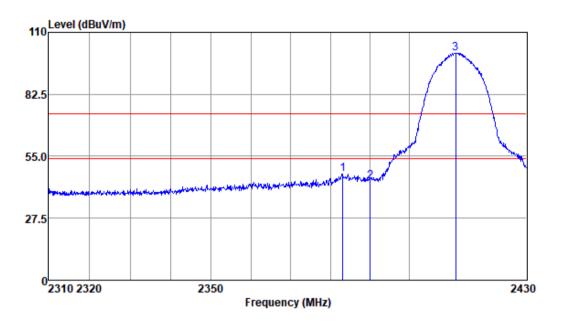
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Report No.: SHEM190701526401

Page: 18 of 41

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

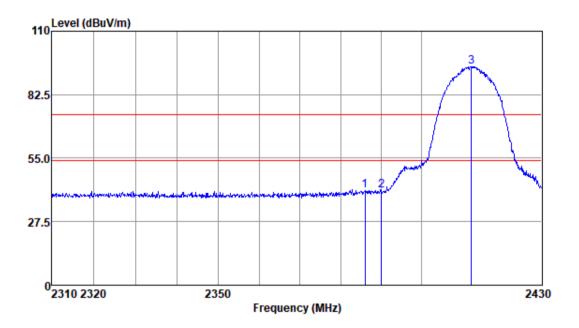
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2383.08	55.40	26.02	3.16	37.39	47.19	74.00	-26.81	Peak
2390.00	52.06	26.03	3.15	37.40	43.84	74.00	-30.16	Peak
2411.73	109.05	26.08	3.13	37.43	100.83	74.00	26.83	Peak



Report No.: SHEM190701526401

Page: 19 of 41

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

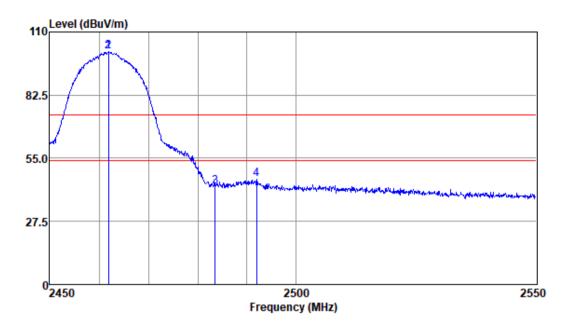
	Freq					Emission Level			Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2	385.98	49.35	26.03	3.16	37.40	41.14	74.00	-32.86	Peak
2	390.00	49.31	26.03	3.15	37.40	41.09	74.00	-32.91	Peak
2	412.34	102.90	26.08	3.13	37.43	94.68	74.00	20.68	Peak



Report No.: SHEM190701526401

Page: 20 of 41

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

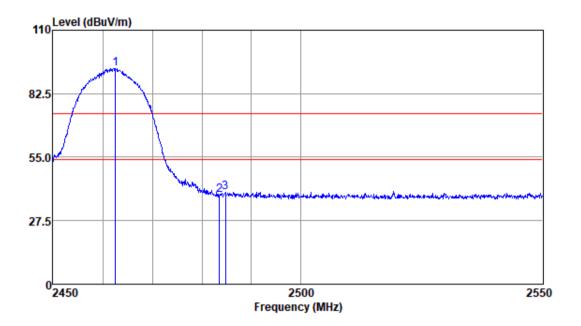
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2461.89	109.54	26.15	3.13	37.53	101.29	74.00	27.29	Peak
2461.89	109.54	26.15	3.13	37.53	101.29	74.00	27.29	Peak
2483.50	50.98	26.18	3.14	37.57	42.73	74.00	-31.27	Peak
2492.01	54.26	26.19	3.15	37.60	46.00	74.00	-28.00	Peak



Report No.: SHEM190701526401

Page: 21 of 41

Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

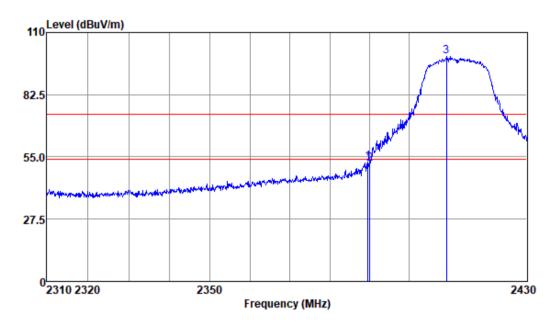
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2462.58	101.76	26.15	3.13	37.53	93.51	74.00	19.51	Peak
2483.50	46.95	26.18	3.14	37.57	38.70	74.00	-35.30	Peak
2484.75	48.09	26.18	3.14	37.57	39.84	74.00	-34.16	Peak



Report No.: SHEM190701526401

Page: 22 of 41

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

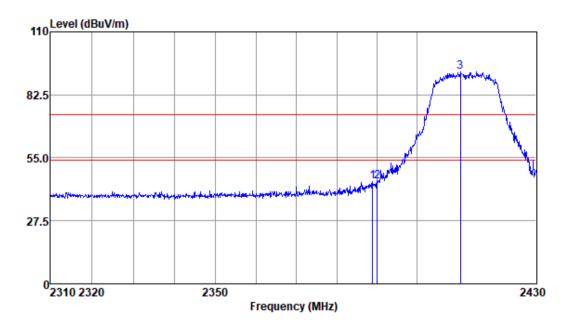
Freq					Emission Level			Remark
MII-						JD/		
MHZ	abuv	aB/m	ав	ав	dBuv/m	aBuv/m	ав	
2389.61	60.93	26.03	3.15	37.40	52.71	74.00	-21.29	Peak
2390.00	60.32	26.03	3.15	37.40	52.10	74.00	-21.90	Peak
2409.41	107.76	26.06	3.13	37.43	99.52	74.00	25.52	Peak



Report No.: SHEM190701526401

Page: 23 of 41

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

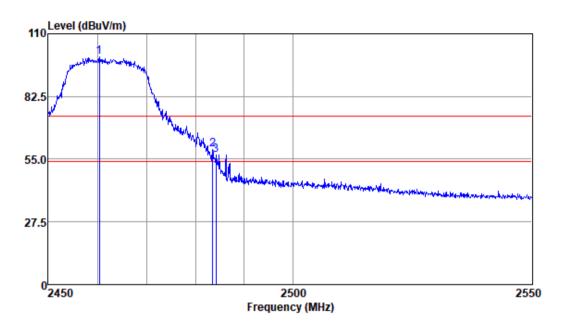
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.88	52.80	26.03	3.15	37.40	44.58	74.00	-29.42	Peak
2390.00	52.70	26.03	3.15	37.40	44.48	74.00	-29.52	Peak
2410.88	100.66	26.06	3.13	37.43	92.42	74.00	18.42	Peak



Report No.: SHEM190701526401

Page: 24 of 41

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

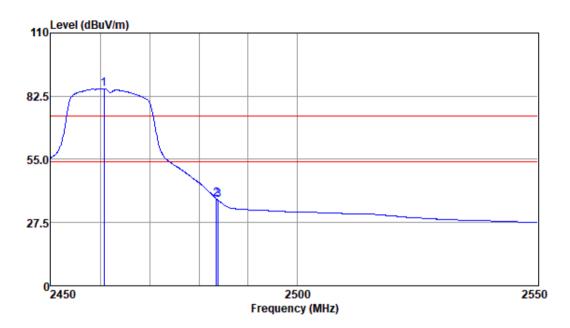
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.41	108.10	26.14	3.13	37.53	99.84	74.00	25.84	Peak
2483.50	67.43	26.18	3.14	37.57	59.18	74.00	-14.82	Peak
2484.25	65.17	26.18	3.14	37.57	56.92	74.00	-17.08	Peak



Report No.: SHEM190701526401

Page: 25 of 41

Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

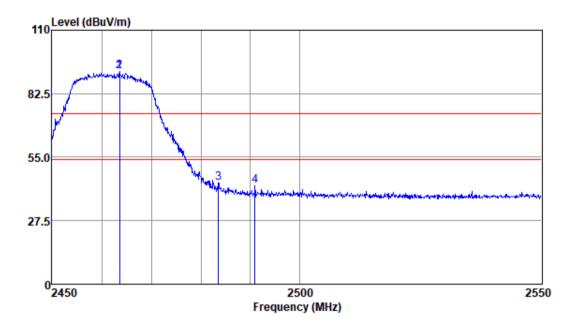
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.71	94.07	26.15	3.13	37.53	85.82	54.00	31.82	Average
2483.50	46.19	26.18	3.14	37.57	37.94	54.00	-16.06	Average
2483.95	45.47	26.18	3.14	37.57	37.22	54.00	-16.78	Average



Report No.: SHEM190701526401

Page: 26 of 41

Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

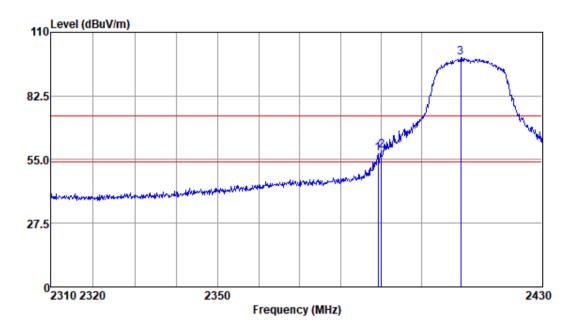
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.56	100.19	26.15	3.13	37.53	91.94	74.00	17.94	Peak
2463.56	100.19	26.15	3.13	37.53	91.94	74.00	17.94	Peak
2483.50	52.15	26.18	3.14	37.57	43.90	74.00	-30.10	Peak
2490.92	50.68	26.19	3.15	37.60	42.42	74.00	-31.58	Peak



Report No.: SHEM190701526401

Page: 27 of 41

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

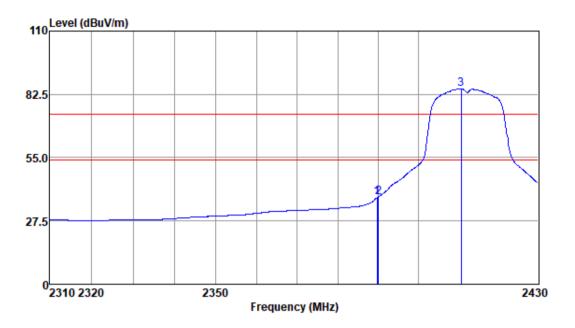
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.24	65.96	26.03	3.15	37.40	57.74	74.00	-16.26	Peak
2390.00	67.23	26.03	3.15	37.40	59.01	74.00	-14.99	Peak
2409 66	107 38	26 86	3 13	37 43	99 14	74 00	25 14	Peak



Report No.: SHEM190701526401

Page: 28 of 41

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

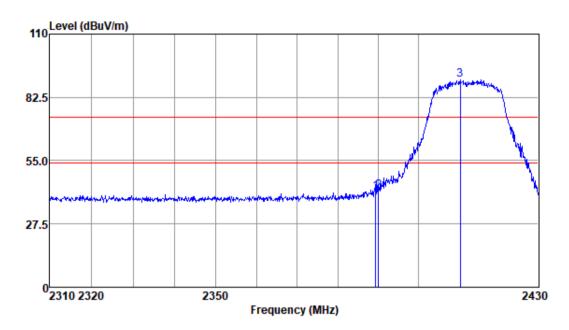
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.73	45.89	26.03	3.15	37.40	37.67	54.00	-16.33	Average
2390.00	46.14	26.03	3.15	37.40	37.92	54.00	-16.08	Average
2410.63	93.25	26.06	3.13	37.43	85.01	54.00	31.01	Average



Report No.: SHEM190701526401

Page: 29 of 41

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

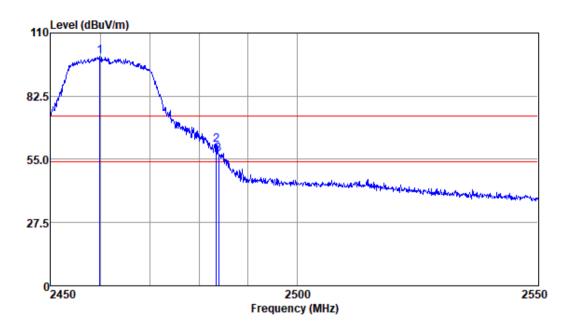
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.36	49.75	26.03	3.15	37.40	41.53	74.00	-32.47	Peak
2390.00	50.07	26.03	3.15	37.40	41.85	74.00	-32.15	Peak
2410.39	98.54	26.06	3.13	37.43	90.30	74.00	16.30	Peak



Report No.: SHEM190701526401

Page: 30 of 41

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

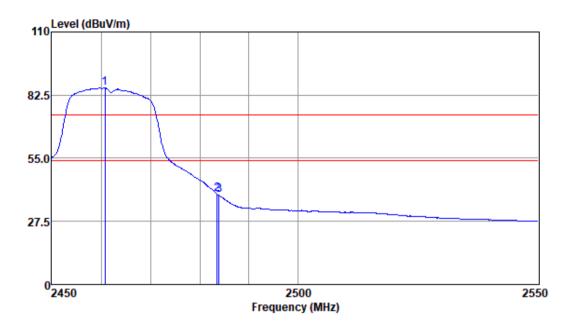
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2459.92	107.99	26.14	3.13	37.53	99.73	74.00	25.73	Peak
2483.50	69.74	26.18	3.14	37.57	61.49	74.00	-12.51	Peak
2484.05	65.54	26.18	3.14	37.57	57.29	74.00	-16.71	Peak



Report No.: SHEM190701526401

Page: 31 of 41

Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

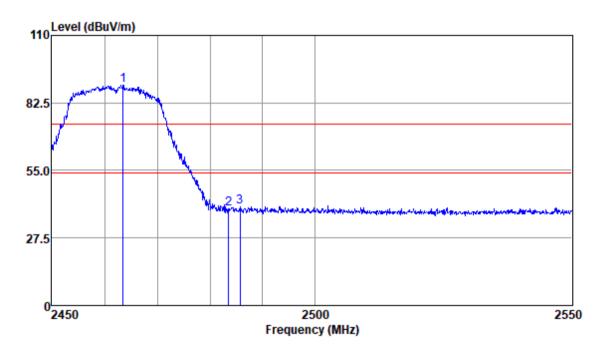
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.71	93.80	26.15	3.13	37.53	85.55	54.00	31.55	Average
2483.50	47.76	26.18	3.14	37.57	39.51	54.00	-14.49	Average
2483.95	47.06	26.18	3.14	37.57	38.81	54.00	-15.19	Average



Report No.: SHEM190701526401

Page: 32 of 41

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.47	98.08	26.15	3.13	37.53	89.83	74.00	15.83	Peak
2483.50	47.46	26.18	3.14	37.57	39.21	74.00	-34.79	Peak
2485.74	48.60	26.18	3.14	37.57	40.35	74.00	-33.65	Peak



Report No.: SHEM190701526401

Page: 33 of 41

7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

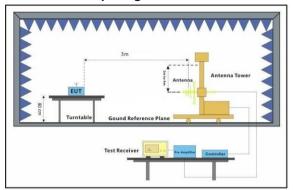
802.11n(HT20). Only the data of worst case is recorded in the report.

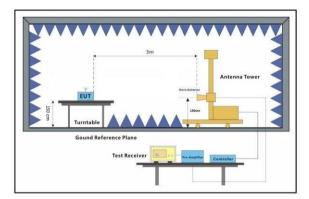


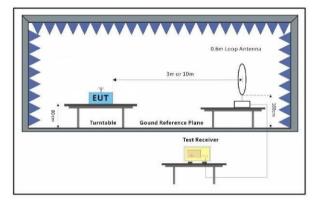
Report No.: SHEM190701526401

Page: 34 of 41

7.7.2 Test Setup Diagram







SGS

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

Report No.: SHEM190701526401

Page: 35 of 41

7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown

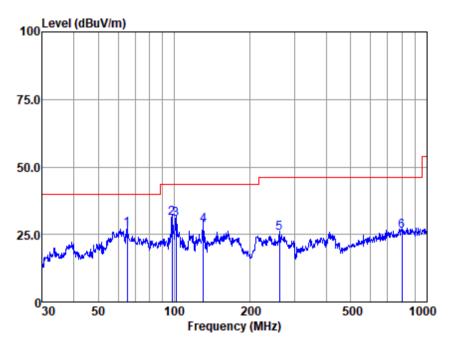


Report No.: SHEM190701526401

Page: 36 of 41

30MHz-1GHz

Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :5262CR

Test mode :a

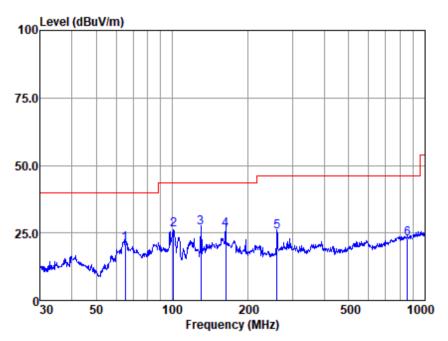
		Read	Antenna	Cable	Preamp	Emission	n Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	65.114	56.78	11.98	0.62	42.29	27.09	40.00	-12.91	QP
2	97.798	62.91	9.25	1.10	42.31	30.95	43.50	-12.55	QP
3	101.644	62.38	9.52	1.13	42.32	30.71	43.50	-12.79	QP
4	130.379	56.67	12.71	1.43	42.26	28.55	43.50	-14.95	QP
5	261.058	53.28	11.90	2.21	42.10	25.29	46.00	-20.71	QP
6	796.183	41.83	21.84	4.36	41.99	26.04	46.00	-19.96	QP



Report No.: SHEM190701526401

Page: 37 of 41

Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :5262CR Test mode :a

		Read	Antenna	Cable	Preamp	Emission	ı Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	65.114	50.69	11.98	0.62	42.29	21.00	40.00	-19.00	QP
2	101.289	57.86	9.51	1.13	42.32	26.18	43.50	-17.32	QP
3	129.923	54.85	12.80	1.43	42.26	26.82	43.50	-16.68	QP
4	162.611	54.09	12.67	1.48	42.22	26.02	43.50	-17.48	QP
5	260.144	53.37	11.86	2.21	42.10	25.34	46.00	-20.66	QP
6	854.025	37.83	22.33	4.49	41.79	22.86	46.00	-23.14	QP



Report No.: SHEM190701526401

Page: 38 of 41

Above 1	G	Ηz
---------	---	----

7386

9848

37.11

32.39

11.41

14.38

Mode:a; Pola	arization:H	orizontal; Mo	dulation:b;	bandwidth:2	0MHz; Chan	nel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.07	6.40	46.47	54	-7.53	peak
7236	37.88	10.76	48.64	54	-5.36	peak
9648	33.90	14.37	48.27	54	-5.73	peak
Mode:a; Pola	arization:V	ertical; Modu	lation:b; ba	andwidth:20M	1Hz; Channe	I:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	39.51	6.40	45.91	54	-8.09	peak
7236	36.51	10.76	47.27	54	-6.73	peak
9648	34.16	14.37	48.53	54	-5.47	peak
Mode:a; Pola	arization·H	orizontal: Mo	dulation·b·	bandwidth:2	0MHz: Chan	nel·middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.72	6.92	45.64	54	-8.36	peak
7311	36.55	11.08	47.63	54	-6.37	peak
9748	35.29	14.36	49.65	54	-4.35	peak
Mode:a; Pola	rization:\/	ertical: Modu	lation:h: ha	andwidth:20N	∥Hz: Channe	l:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.85	6.92	46.77	54	-7.23	peak
7311	34.95	11.08	46.03	54	-7.97	peak
9748	35.43	14.36	49.79	54	-4.21	peak
Mode:a; Pola			dulation:b; Emission			_
Frequency	RX_R	Factor		Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	43.65	7.31	50.96	54	-3.04	peak
7386	36.84	11.41	48.25	54	-5.75	peak
9848	33.23	14.38	47.61	54	-6.39	peak
Mode:a; Pola	arization:V	ertical; Modu	lation:b; ba	andwidth:20M	1Hz; Channe	l:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.58	7.31	49.89	54	-4.11	peak

48.52

46.77

54

54

-5.48

-7.23

peak

peak



Report No.: SHEM190701526401

Page: 39 of 41

Frequency MHz RX_R Factor Ballow dBuV/m dB	Mode:a; Pola	arization:Ho	rizontal; Mo	odulation:g;	bandwidth:20	OMHz; Cha	nnel:Low
4824 39.91 6.40 46.31 54 -7.69 peak 7236 38.38 10.76 49.14 54 -4.86 peak 9648 34.26 14.37 48.63 54 -5.37 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB 4824 41.01 6.40 47.41 54 -6.59 peak 7236 35.69 10.76 46.45 54 -7.55 peak 9648 37.19 14.37 51.56 54 -2.44 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle Erequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB -5.62 peak <t< td=""><td>Frequency</td><td>RX_R</td><td>Factor</td><td>Emission</td><td>Limit</td><td>Margin</td><td>Detector</td></t<>	Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
7236 38.38 10.76 49.14 54 -4.86 peak 9648 34.26 14.37 48.63 54 -5.37 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB 4824 41.01 6.40 47.41 54 -6.59 peak 7236 35.69 10.76 46.45 54 -7.55 peak 9648 37.19 14.37 51.56 54 -2.44 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector MHz 48.74 38.00 6.92 44.92 54 -9.08 peak 7311 37.30 11.08 48.38 54	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
9648 34.26 14.37 48.63 54 -5.37 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m	4824	39.91	6.40	46.31	54	-7.69	peak
Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low Frequency RX_R Factor Factor Emission Limit Limit Margin Detector Detector MHz dBuV dB dBuV/m dBuV/m dB dBuV/m <td>7236</td> <td>38.38</td> <td>10.76</td> <td>49.14</td> <td>54</td> <td>-4.86</td> <td>peak</td>	7236	38.38	10.76	49.14	54	-4.86	peak
Frequency RX_R Factor dB with dB wit	9648	34.26	14.37	48.63	54	-5.37	peak
Frequency RX_R Factor dB with dB wit					1 111 0014		
MHz dBuV dB dBuV/m dBuV/m dB dB 4824 41.01 6.40 47.41 54 -6.59 peak 7236 35.69 10.76 46.45 54 -7.55 peak 9648 37.19 14.37 51.56 54 -2.44 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle Erequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 48.74 38.00 6.92 44.92 54 -9.08 peak 7311 37.30 11.08 48.38 54 -5.62 peak 9748 35.85 14.36 50.21 54 -3.79 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Erequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m				•			
4824 41.01 6.40 47.41 54 -6.59 peak 7236 35.69 10.76 46.45 54 -7.55 peak 9648 37.19 14.37 51.56 54 -2.44 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB Po.08 peak 4371 37.30 11.08 48.38 54 -5.62 peak 9748 35.85 14.36 50.21 54 -3.79 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748						_	Detector
7236 35.69 10.76 46.45 54 -7.55 peak 9648 37.19 14.37 51.56 54 -2.44 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector Detector MHz dBuV dB dBuV/m dBuV/m dBuV/m dB dB Deak 4874 38.00 6.92 44.92 54 -9.08 peak 7311 37.30 11.08 48.38 54 -5.62 peak 9748 35.85 14.36 50.21 54 -3.79 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Emission Limit Margin Detector MMrgin Detector MHz dBuV dB dBuV/m dBuV/m dBuV/m dBuV/m dB 48.64 54 -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Pol							
9648 37.19 14.37 51.56 54 -2.44 peak Mode:a; Polarization:Horizontal; Prequency RX_R Factor Emission Limit Margin Detector MHz; Channel:middle Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4874 38.00 6.92 44.92 54 -9.08 peak 7311 37.30 11.08 48.38 54 -5.62 peak 9748 35.85 14.36 50.21 54 -3.79 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector Detector MHz dBuV dB dBuV/m dBuV/m dB 4874 41.72 6.92 48.64 54 -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High							•
Mode:a; Polarization:Horizontal; Prequency RX_R Factor Emission Limit Margin Margin Detector Detector MHz dBuV dB dBuV/m dBuV/m dB Detector MHz dBuV dB dBuV/m dBuV/m dB Detector MHz dBuV dB dBuV/m dBuV/m dB Deak 7311 37.30 11.08 48.38 54 -5.62 peak 9748 35.85 14.36 50.21 54 -3.79 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB Deak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Channel:High Detector MB							•
Frequency RX_R Factor dBuV Emission dBuV/m Limit dBuV/m Margin dBu Detector MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dBuV/m dB 4874 38.00 6.92 44.92 54 -9.08 peak 7311 37.30 11.08 48.38 54 -5.62 peak 9748 35.85 14.36 50.21 54 -3.79 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB Detector MHz 41.72 6.92 48.64 54 -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Frequency RX_R Factor Emission<	9648	37.19	14.37	51.56	54	-2.44	peak
MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m dB dB dBuV/m dB dBuV/m dB dBuV/m dB peak pe	Mode:a; Pola	arization:Ho	rizontal; Mo	odulation:g;	bandwidth:20	OMHz; Cha	nnel:middle
4874 38.00 6.92 44.92 54 -9.08 peak 7311 37.30 11.08 48.38 54 -5.62 peak 9748 35.85 14.36 50.21 54 -3.79 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB Deak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz 48uV dB dBuV/m dBuV/m dBuV/m dBuV/m 4924 41.47 7.31 48.78 54 -5.22 peak	Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
7311 37.30 11.08 48.38 54 -5.62 peak 9748 35.85 14.36 50.21 54 -3.79 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4874 41.72 6.92 48.64 54 -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dB -5.22 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector <tr< td=""><td>MHz</td><td>dBuV</td><td>dB</td><td>dBuV/m</td><td>dBuV/m</td><td>dB</td><td></td></tr<>	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
9748 35.85 14.36 50.21 54 -3.79 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector MHz Margin Detector MHz dBuV dB dBuV/m dBuV/m dBuV/m dB dB 4874 41.72 6.92 48.64 54 -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector Detector MHz dBuV dB dBuV/m dBuV/m dBuV/m dB dBuV/m eak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB -7.06 peak	4874	38.00	6.92	44.92	54	-9.08	peak
Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4874 41.72 6.92 48.64 54 -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector Detector MHz dBuV dB dBuV/m dBuV/m dBuV/m dB dBuV/m dBuV/m dB dBuV/m dBuV/m dB 4924 41.47 7.31 48.78 54 -5.22 peak 7386 38.65 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Detector MHz dBuV dB dBuV/m dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 <	7311	37.30	11.08	48.38	54	-5.62	peak
Frequency RX_R Factor dBuV Emission dBuV/m Limit dBuV/m Margin dBuV/m Detector dBuV/m MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m dB dBuV/m dB peak 4874 41.72 6.92 48.64 54 -5.36 peak peak 9748 35.98 11.08 48.71 54 -5.29 peak peak 9748 35.98 14.36 50.34 54 -3.66 peak peak 9848 35.98 14.36 50.34 54 -3.66 peak	9748	35.85	14.36	50.21	54	-3.79	peak
Frequency RX_R Factor dBuV Emission dBuV/m Limit dBuV/m Margin dBuV/m Detector dBuV/m MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m dB dBuV/m dB peak 4874 41.72 6.92 48.64 54 -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV	Madaya, Dala	arization.\/a	rtical, Madu	ulationum ha	n dwidth 2004	Uz. Chann	مايصنططام
MHz dBuV dB dBuV/m dBuV/m dBuV/m dB 4874 41.72 6.92 48.64 54 -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 41.47 7.31 48.78 54 -5.22 peak 9848 32.56 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 </td <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td>				•			
4874 41.72 6.92 48.64 54 -5.36 peak 7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 41.47 7.31 48.78 54 -5.22 peak 7386 38.65 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41<							Detector
7311 37.63 11.08 48.71 54 -5.29 peak 9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB 4924 41.47 7.31 48.78 54 -5.22 peak 7386 38.65 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>nook</td>							nook
9748 35.98 14.36 50.34 54 -3.66 peak Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 41.47 7.31 48.78 54 -5.22 peak 7386 38.65 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak							•
Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 41.47 7.31 48.78 54 -5.22 peak 7386 38.65 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak							•
Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB dB 4924 41.47 7.31 48.78 54 -5.22 peak 7386 38.65 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB dBV/m dB -6.68 peak 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak	9748	35.98	14.36	50.34	54	-3.66	peak
MHz dBuV dB dBuV/m dBuV/m dBuV/m dB 4924 41.47 7.31 48.78 54 -5.22 peak 7386 38.65 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB dBV/m dB -6.68 peak 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak	Mode:a; Pola	arization:Ho	rizontal; Mo	odulation:g;	bandwidth:20	OMHz; Cha	nnel:High
4924 41.47 7.31 48.78 54 -5.22 peak 7386 38.65 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak	Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
7386 38.65 11.41 50.06 54 -3.94 peak 9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
9848 32.56 14.38 46.94 54 -7.06 peak Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak	4924	41.47	7.31	48.78	54	-5.22	peak
Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak	7386	38.65	11.41	50.06	54	-3.94	peak
Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak	9848	32.56	14.38	46.94	54	-7.06	peak
Frequency RX_R Factor Emission Limit Margin Detector MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak	Madalal Dala	arization.\/a	rtical, Madu	ulationum ha	n dwidth 2014	Uz. Chann	مايالنمام
MHz dBuV dB dBuV/m dBuV/m dB 4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak				•			•
4924 40.01 7.31 47.32 54 -6.68 peak 7386 38.04 11.41 49.45 54 -4.55 peak						-	Detector
7386 38.04 11.41 49.45 54 -4.55 peak							
·							•
9848 36.49 14.38 50.87 54 -3.13 peak	7386	30 V1	11 /1	10.15	E1	1 55	naal
							•



Report No.: SHEM190701526401

Page: 40 of 41

wode:a; Pola	arization:Ho	rizontal; Mo	odulation:n;	bandwidth:20	DMHz; Cha	nnel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	38.09	6.40	44.49	54	-9.51	peak
7236	36.57	10.76	47.33	54	-6.67	peak
9648	36.24	14.37	50.61	54	-3.39	peak
Mode:a; Pola		•	· ·			
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.49	6.40	49.89	54	-4.11	peak
7236	37.73	10.76	48.49	54	-5.51	peak
9648	30.49	14.37	44.86	54	-9.14	peak
Mode:a; Pola	arization:Ho	rizontal: Mo	odulation:n:	bandwidth:20	OMHz: Cha	nnel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.08	6.92	50.00	54	-4.00	peak
7311	39.67	11.08	50.75	54	-3.25	peak
9748	31.61	14.36	45.97	54	-8.03	peak
						·
Mode:a; Pola	arization:\/a	rtical: Modu	ilationini hai	ndwidth:201/4	Har Chann	مالدام! مدينا
	anzauon. v c	rtical, iviout	ilationini, bai	nawiati .Zowi	nz, Chann	ei:miaaie
Frequency	RX_R	Factor	Emission	Limit	Margin	ei:middie Detector
Frequency	RX_R	Factor	Emission	Limit	Margin	
Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
Frequency MHz 4874	RX_R dBuV 42.40	Factor dB 6.92	Emission dBuV/m 49.32	Limit dBuV/m 54	Margin dB -4.68	Detector peak
Frequency MHz 4874 7311 9748	RX_R dBuV 42.40 35.91 35.84	Factor dB 6.92 11.08 14.36	Emission dBuV/m 49.32 46.99 50.20	Limit dBuV/m 54 54 54	Margin dB -4.68 -7.01 -3.80	Detector peak peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pola	RX_R dBuV 42.40 35.91 35.84 arization:Ho	Factor dB 6.92 11.08 14.36	Emission dBuV/m 49.32 46.99 50.20 odulation:n;	Limit dBuV/m 54 54 54 bandwidth:20	Margin dB -4.68 -7.01 -3.80 DMHz; Cha	Detector peak peak peak nnel:High
Frequency MHz 4874 7311 9748 Mode:a; Pola	RX_R dBuV 42.40 35.91 35.84 arization:Ho	Factor dB 6.92 11.08 14.36 orizontal; Mo	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission	Limit dBuV/m 54 54 54 bandwidth:20 Limit	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin	Detector peak peak peak nnel:High
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz	RX_R dBuV 42.40 35.91 35.84 arization:Ho RX_R dBuV	Factor dB 6.92 11.08 14.36 vrizontal; Mo Factor dB	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB	Detector peak peak peak nnel:High Detector
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz 4924	RX_R dBuV 42.40 35.91 35.84 arization:Ho RX_R dBuV 39.39	Factor dB 6.92 11.08 14.36 rizontal; Mo Factor dB 7.31	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m 46.70	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m 54	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB -7.30	peak peak peak nnel:High Detector peak
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz 4924 7386	RX_R dBuV 42.40 35.91 35.84 arization:Ho RX_R dBuV 39.39 38.18	Factor dB 6.92 11.08 14.36 rizontal; Mo Factor dB 7.31 11.41	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m 46.70 49.59	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m 54 54	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB -7.30 -4.41	peak peak peak nnel:High Detector peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz 4924	RX_R dBuV 42.40 35.91 35.84 arization:Ho RX_R dBuV 39.39	Factor dB 6.92 11.08 14.36 rizontal; Mo Factor dB 7.31	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m 46.70	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m 54	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB -7.30	peak peak peak nnel:High Detector
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz 4924 7386	RX_R dBuV 42.40 35.91 35.84 arization:Ho RX_R dBuV 39.39 38.18 32.47	Factor dB 6.92 11.08 14.36 rizontal; Mo Factor dB 7.31 11.41 14.38	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m 46.70 49.59 46.85	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m 54 54 54	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB -7.30 -4.41 -7.15	peak peak peak nnel:High Detector peak peak peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz 4924 7386 9848	RX_R dBuV 42.40 35.91 35.84 arization:Ho RX_R dBuV 39.39 38.18 32.47	Factor dB 6.92 11.08 14.36 rizontal; Mo Factor dB 7.31 11.41 14.38	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m 46.70 49.59 46.85	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m 54 54 54	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB -7.30 -4.41 -7.15	peak peak peak nnel:High Detector peak peak peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz 4924 7386 9848 Mode:a; Pola	RX_R dBuV 42.40 35.91 35.84 arization:Ho RX_R dBuV 39.39 38.18 32.47	Factor dB 6.92 11.08 14.36 rizontal; Mo Factor dB 7.31 11.41 14.38	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m 46.70 49.59 46.85	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m 54 54 54	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB -7.30 -4.41 -7.15 Hz; Channe	peak peak peak nnel:High Detector peak peak peak peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz 4924 7386 9848 Mode:a; Pola Frequency	RX_R dBuV 42.40 35.91 35.84 arization:Ho RX_R dBuV 39.39 38.18 32.47 arization:Ve RX_R	Factor dB 6.92 11.08 14.36 rizontal; Mo Factor dB 7.31 11.41 14.38 rtical; Modu	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m 46.70 49.59 46.85 ulation:n; ball Emission	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m 54 54 54 54 ndwidth:20M Limit	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB -7.30 -4.41 -7.15 Hz; Channe Margin	peak peak peak nnel:High Detector peak peak peak peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz 4924 7386 9848 Mode:a; Pola Frequency MHz	RX_R dBuV 42.40 35.91 35.84 arization:Ho RX_R dBuV 39.39 38.18 32.47 arization:Ve RX_R dBuV	Factor dB 6.92 11.08 14.36 rizontal; Mo Factor dB 7.31 11.41 14.38 rtical; Modu Factor dB	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m 46.70 49.59 46.85 ulation:n; ball Emission dBuV/m	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m 54 54 54 ndwidth:20M Limit dBuV/m	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB -7.30 -4.41 -7.15 Hz; Channe Margin dB	peak peak peak nnel:High Detector peak peak peak peak peak peak peak
Frequency MHz 4874 7311 9748 Mode:a; Pola Frequency MHz 4924 7386 9848 Mode:a; Pola Frequency MHz 4924 4924 4924	RX_R dBuV 42.40 35.91 35.84 Arization:Ho RX_R dBuV 39.39 38.18 32.47 Arization:Ve RX_R dBuV 39.39	Factor dB 6.92 11.08 14.36 rizontal; Mo Factor dB 7.31 11.41 14.38 rtical; Modu Factor dB 7.31	Emission dBuV/m 49.32 46.99 50.20 odulation:n; Emission dBuV/m 46.70 49.59 46.85 ulation:n; ball Emission dBuV/m 46.21	Limit dBuV/m 54 54 54 bandwidth:20 Limit dBuV/m 54 54 54 ndwidth:20M Limit dBuV/m 54	Margin dB -4.68 -7.01 -3.80 DMHz; Cha Margin dB -7.30 -4.41 -7.15 Hz; Channe Margin dB -7.79	peak peak peak nnel:High Detector peak peak peak peak peak peak peak pea



Report No.: SHEM190701526401

Page: 41 of 41

8 Photographs

9 Test Setup Photographs

Refer to the < Test Setup photos-FCC >.

10 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -

NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 中国・上海・松江区金都西路588号 邮編: 201612