

Report No.: SHEM191001838501

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## TEST REPORT

**Application No.**: SHEM1910018385CR **FCC ID**: 2ADTD-H2TS0315XFW

Applicant: Hangzhou Hikvision Digital Technology Co., Ltd

Address of Applicant: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Manufacturer: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

**Factory:** 1, Hangzhou Hikvision Technology Co., Ltd.

2, Hangzhou Hikvision Electronics Co., Ltd.

Address of Factory: 1, No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang,

310052, China

2, No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu

County, Hangzhou, Zhejiang, 310052, China

**Equipment Under Test (EUT):** 

n

**EUT Name:** Thermal Telescope

Model No.: DS-2TS03-15XF/W,DS-2TS01-06XF/W,DS-2TS03-15XF/WUHK,DS-

2TS01-06XF/WUHK,DS-2TS03-15XF/WCKV,DS-2TS01-06XF/WCKV,DS-2TS03-15XF/WUVS,DS-2TS01-06XF/WUVS,DS-2TS03-15XF/WKVO,DS-2TS01-06XF/WKVO,DS-2TS01-06XF/WHUN,DS-2TS01-06XF/WHUN ¤

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:** 2019-10-30

**Date of Test:** 2019-10-30 to 2019-11-09

**Date of Issue:** 2019-11-20

Test Result: Pass\*

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 pection & Testing Services

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

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version Description Date Remark					
00	Original	2019-11-20	/		

Authorized for issue by:			
	Michael Mil		
	Micheal Niu / Project Engineer	-	
	Parlam zhan		
	Parlam Zhan / Reviewer	_	



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## 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	

#### Note 1

### **Declaration of EUT Family Grouping:**

Note: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model DS-2TS03-15XF/W was tested since their differences were the model number and appearance.

### Note 2

WIFI function can't working when battery charging



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: DC 3.6V 3.3Ah 11.88Wh Rechargeable battery

DC 5V 2A by USB port

Test voltage: DC 3.6V

Cable: DC Cable 0.6m

Antenna Gain -1dBi

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

802.11n(HT40):7

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

802.11n(HT40): 2422MHz to 2452MHz

### 4.2 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	/

### 4.3 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
1	20	29	30
6	20	29	30
11	20	29	30
Channel	802.11n(HT40)		
Channel 3	802.11n(HT40) 30		
	` `		



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## 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	±8.4 x 10 <sup>-8</sup>
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 Dadieted names	±4.6dB (Below 1GHz)
8	RF Radiated power	±4.1dB (Above 1GHz)
		±4.2dB (Below 30MHz)
0	Radiated Spurious emission test	±4.4dB (30MHz-1GHz)
9		±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.



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#### 4.5 Test Location

All tests were performed at:

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

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



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## **Equipment List**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
RF Conducted Test							
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2018-12-20	2019-12-19		
Spectrum Analyzer	Agilent	N9020A SHEM181-1		2019-08-13	2020-08-12		
Signal Generator	R&S	SMR20	SHEM006-1	2019-08-13	2020-08-12		
Signal Generator	Agilent	N5182A	SHEM182-1	2019-08-13	2020-08-12		
Communication Tester	R&S	CMW270	SHEM183-1	2019-08-13	2020-08-12		
Switcher	Tonscend	JS0806	SHEM184-1	2019-08-13	2020-08-12		
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2019-08-13	2020-08-12		
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		
RF 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-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2019-04-30	2022-04-29		
Horn Antenna (1-18GHz)	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	2019-08-13	2020-08-12		
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118	SHEM050-2	2019-08-13	2020-08-12		
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2018-12-20	2019-12-19		
Signal Generator	R&S	SMR40	SHEM058-1	2019-08-13	2020-08-12		
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	/	/		
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/		
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		



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## 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:

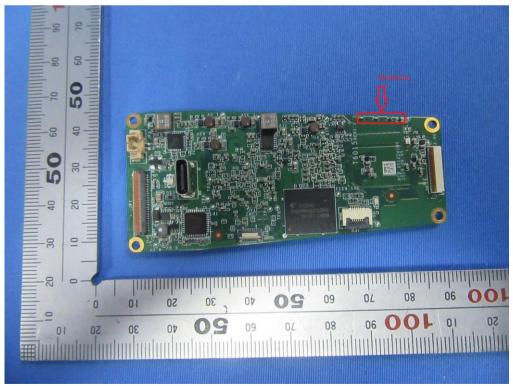
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 and no consideration of replacement. The best case gain of the antenna is -1dBi.





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## 7 Radio Spectrum Matter Test Results

### 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:

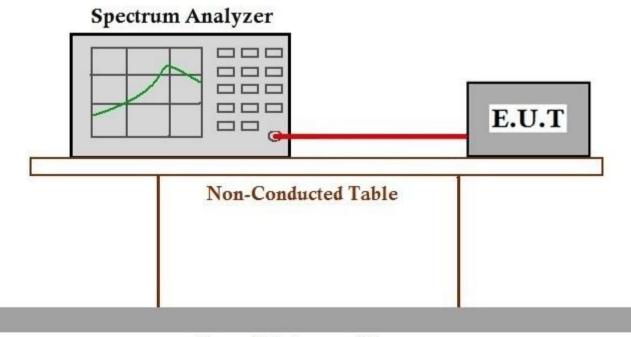
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).

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 SHEM191001838501



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### 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:

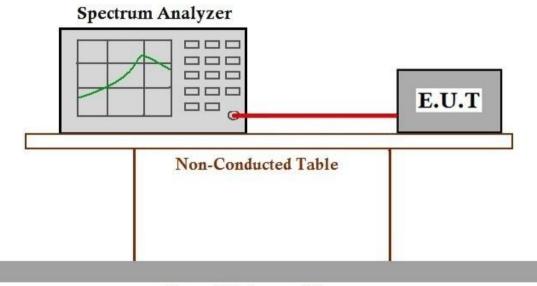
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

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 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).

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 SHEM191001838501

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### 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:

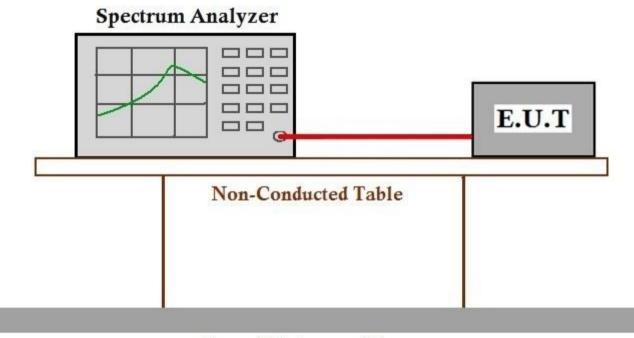
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).

Only the data of worst case is recorded in the report.

#### 7.3.2 Test Setup Diagram



### Ground Reference Plane

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM191001838501



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### 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 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)



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#### 7.4.1 E.U.T. Operation

Operating Environment:

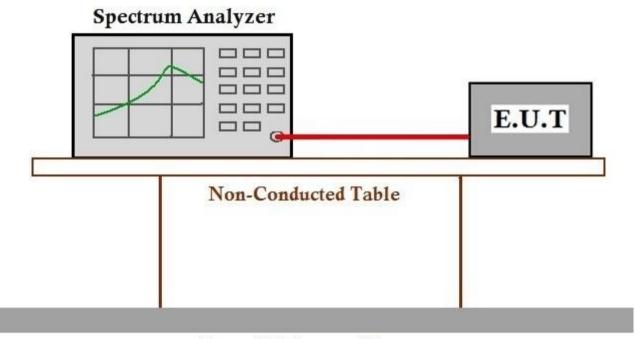
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).

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 SHEM191001838501



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### 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)



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#### 7.5.1 E.U.T. Operation

Operating Environment:

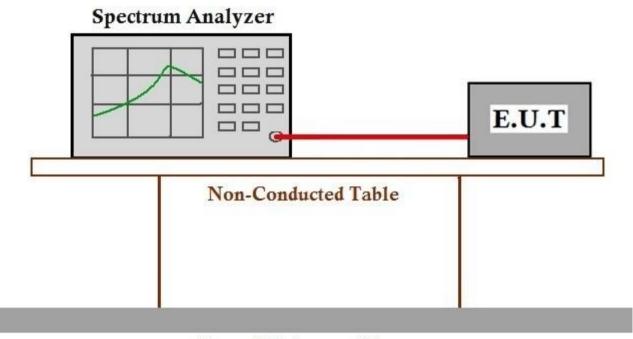
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).

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 SHEM191001838501



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### 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.



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### 7.6.1 E.U.T. Operation

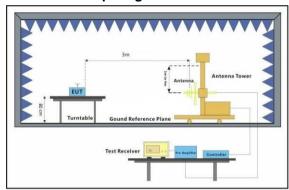
Operating Environment:

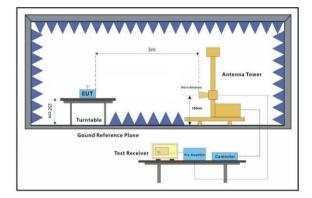
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

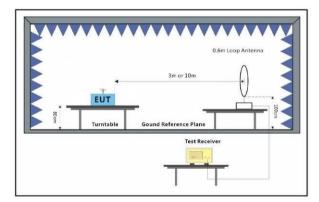
Test mode

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 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

#### 7.6.2 Test Setup Diagram









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#### 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.
- j. Repeat above procedures until all frequencies measured was complete.

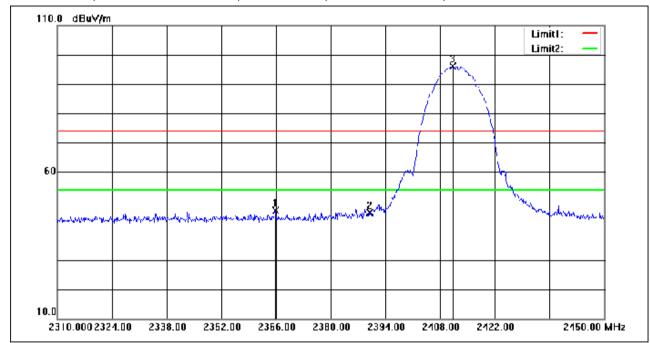
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.



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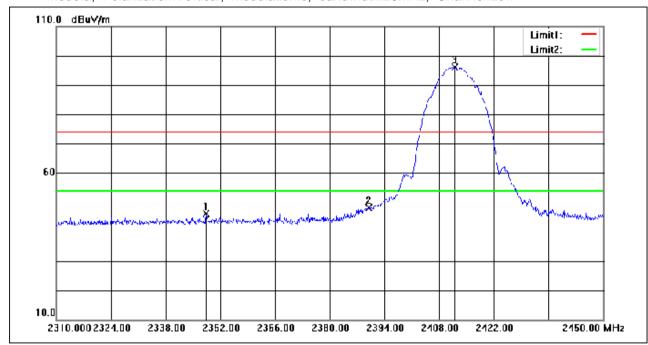


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2365.860	63.19	-16.42	46.77	74.00	-27.23	peak
2	2390.000	62.56	-16.42	46.14	74.00	-27.86	peak
3	2411.220	112.55	-16.41	96.14	74.00	22.14	peak



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

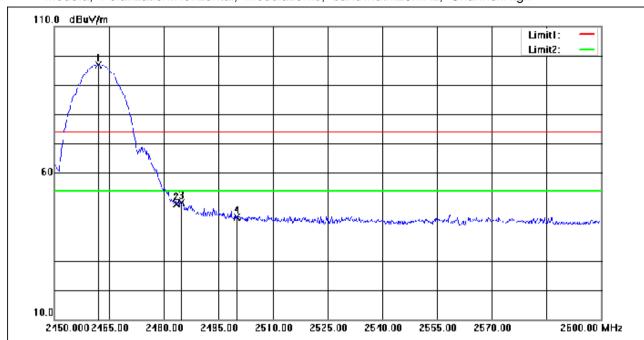


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2348.360	62.46	-16.43	46.03	74.00	-27.97	peak
2	2390.000	64.49	-16.42	48.07	74.00	-25.93	peak
3	2412.060	112.51	-16.41	96.10	74.00	22.10	peak



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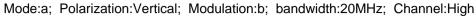
Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High

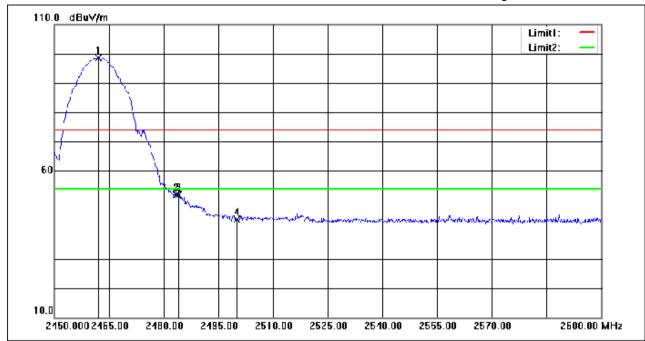


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.150	113.40	-16.40	97.00	74.00	23.00	peak
2	2483.500	65.72	-16.39	49.33	74.00	-24.67	peak
3	2484.950	66.32	-16.39	49.93	74.00	-24.07	peak
4	2500.000	61.21	-16.39	44.82	74.00	-29.18	peak



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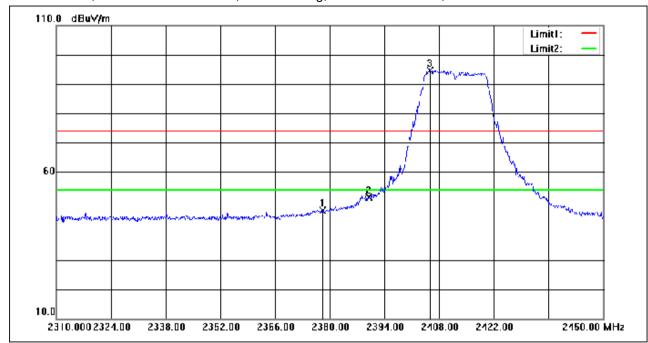


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.150	114.98	-16.40	98.58	74.00	24.58	peak
2	2483.500	68.32	-16.39	51.93	74.00	-22.07	peak
3	2484.050	68.16	-16.39	51.77	74.00	-22.23	peak
4	2500.000	59.72	-16.39	43.33	74.00	-30.67	peak



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

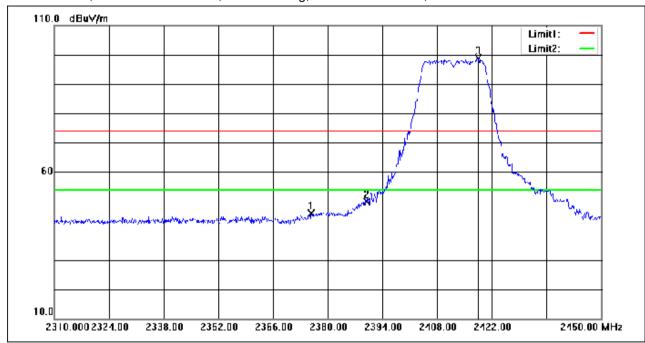


No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2378.180	63.25	-16.42	46.83	74.00	-27.17	peak
2	2390.000	67.74	-16.42	51.32	74.00	-22.68	peak
3	2405.620	111.03	-16.41	94.62	74.00	20.62	peak



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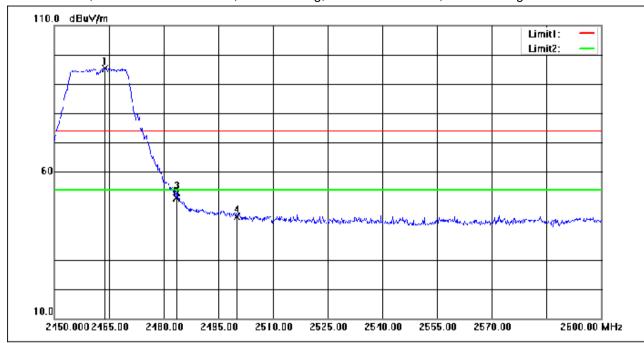


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2375.800	62.28	-16.42	45.86	74.00	-28.14	peak
2	2390.000	66.18	-16.42	49.76	74.00	-24.24	peak
3	2418.500	115.29	-16.41	98.88	74.00	24.88	peak



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

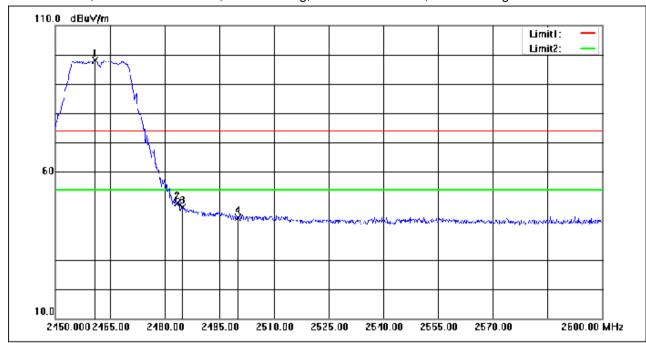


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.950	111.77	-16.40	95.37	74.00	21.37	peak
2	2483.500	67.63	-16.39	51.24	74.00	-22.76	peak
3	2483.750	69.25	-16.39	52.86	74.00	-21.14	peak
4	2500.000	60.99	-16.39	44.60	74.00	-29.40	peak



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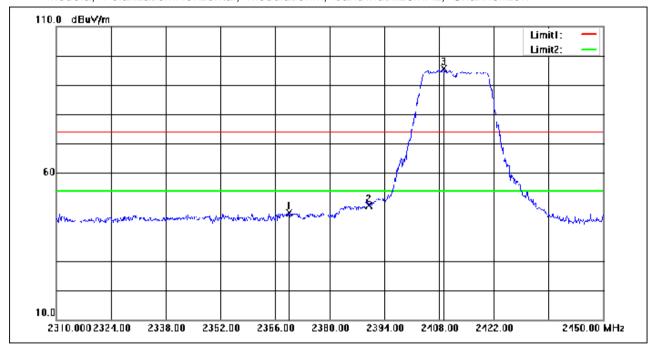


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.950	114.41	-16.40	98.01	74.00	24.01	peak
2	2483.500	65.88	-16.39	49.49	74.00	-24.51	peak
3	2484.800	64.33	-16.39	47.94	74.00	-26.06	peak
4	2500.000	60.70	-16.39	44.31	74.00	-29.69	peak



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

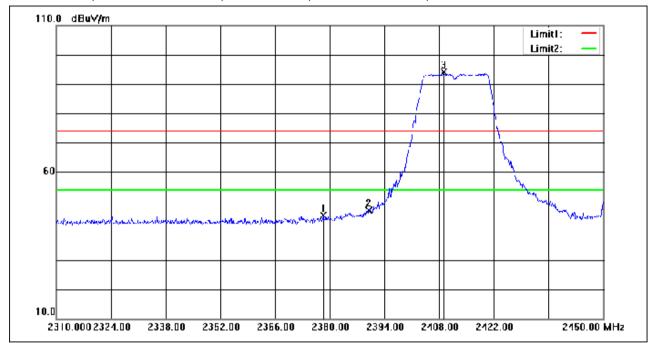


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2369.640	62.87	-16.42	46.45	74.00	-27.55	peak
2	2390.000	65.40	-16.42	48.98	74.00	-25.02	peak
3	2409.120	112.10	-16.41	95.69	74.00	21.69	peak



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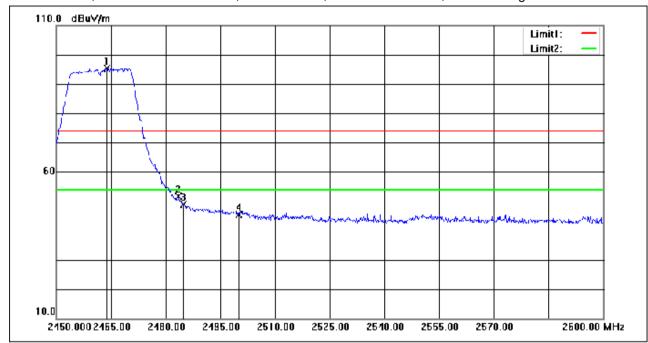


No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2378.320	61.53	-16.42	45.11	74.00	-28.89	peak
2	2390.000	63.42	-16.42	47.00	74.00	-27.00	peak
3	2409.120	110.66	-16.41	94.25	74.00	20.25	peak



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

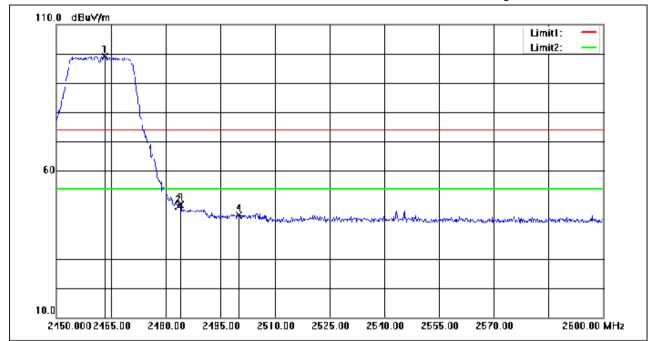


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.950	111.77	-16.40	95.37	74.00	21.37	peak
2	2483.500	68.05	-16.39	51.66	74.00	-22.34	peak
3	2484.950	65.33	-16.39	48.94	74.00	-25.06	peak
4	2500.000	61.89	-16.39	45.50	74.00	-28.50	peak



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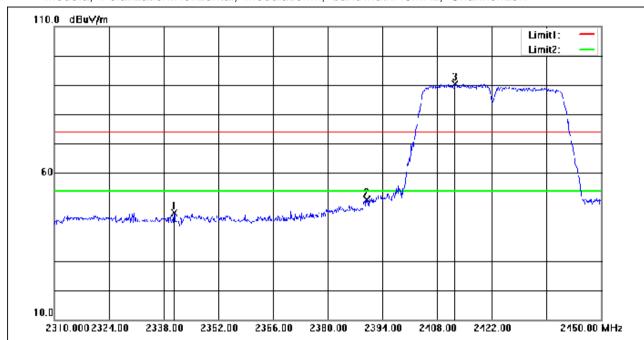


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.350	115.56	-16.40	99.16	74.00	25.16	peak
2	2483.500	64.18	-16.39	47.79	74.00	-26.21	peak
3	2484.050	64.86	-16.39	48.47	74.00	-25.53	peak
4	2500.000	61.26	-16.39	44.87	74.00	-29.13	peak



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

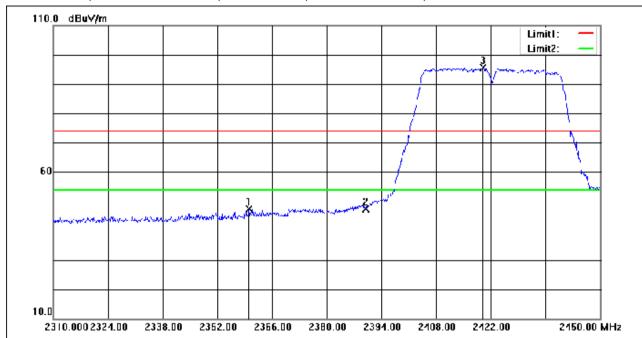


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2340.660	62.90	-16.43	46.47	74.00	-27.53	peak
2	2390.000	67.39	-16.42	50.97	74.00	-23.03	peak
3	2412.480	106.88	-16.41	90.47	74.00	16.47	peak



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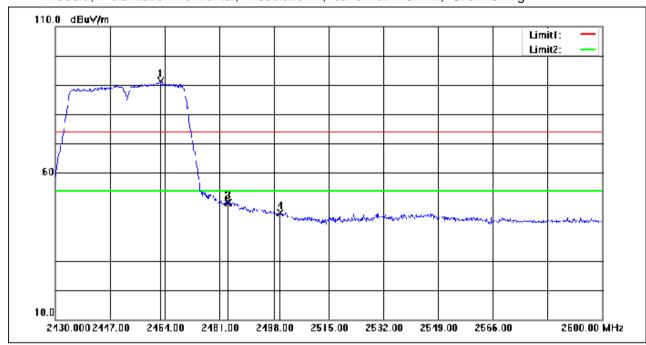


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2360.120	63.82	-16.43	47.39	74.00	-26.61	peak
2	2390.000	63.81	-16.42	47.39	74.00	-26.61	peak
3	2420.040	111.99	-16.41	95.58	74.00	21.58	peak



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

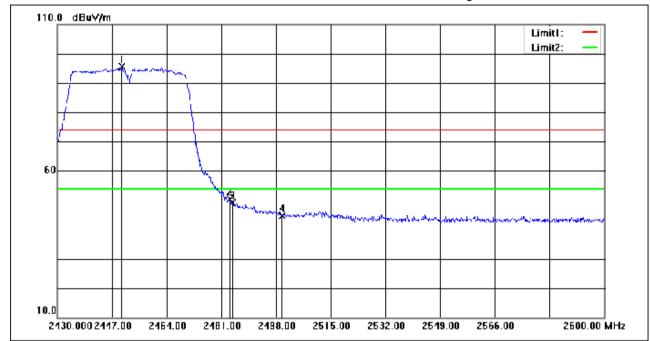


No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.640	107.78	-16.40	91.38	74.00	17.38	peak
2	2483.500	66.26	-16.39	49.87	74.00	-24.13	peak
3	2483.890	66.29	-16.39	49.90	74.00	-24.10	peak
4	2500.000	62.81	-16.39	46.42	74.00	-27.58	peak



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No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2450.060	111.96	-16.40	95.56	74.00	21.56	peak
2	2483.500	66.84	-16.39	50.45	74.00	-23.55	peak
3	2484.570	65.45	-16.39	49.06	74.00	-24.94	peak
4	2500.000	61.00	-16.39	44.61	74.00	-29.39	peak



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### 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.



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### 7.7.1 E.U.T. Operation

Operating Environment:

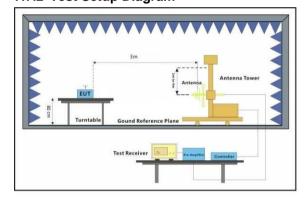
Temperature: 23 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

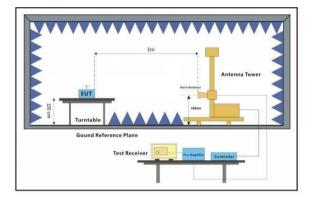
Test mode a:TX mode\_Keep the EUT in continuously transmitting mode with all modulation

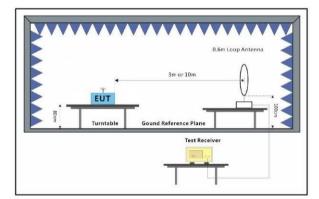
types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).

Only the data of worst case is recorded in the report.

### 7.7.2 Test Setup Diagram









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#### 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.
- j. 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

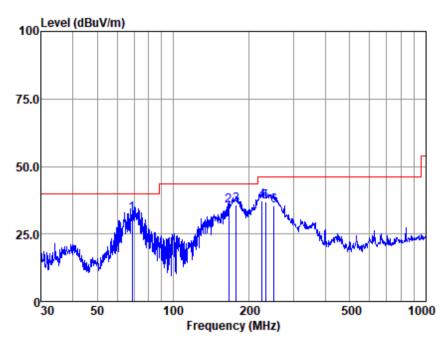
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 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



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Below 1GHz:

Mode:a; Polarization:Horizontal



Antenna Polarity : HORIZONTAL EUT/Project :18384CR

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	68.872	62.51	11.55	0.64	42.27	32.43	40.00	-7.57	QP
2	166.068	63.87	12.14	1.49	42.21	35.29	43.50	-8.21	QP
3	177.509	64.60	11.82	1.63	42.20	35.85	43.50	-7.65	QP
4	224.519	66.94	10.48	2.00	42.14	37.28	46.00	-8.72	QP
5	232.532	66.13	10.82	2.08	42.13	36.90	46.00	-9.10	QP
6	250.301	63.73	11.52	2.19	42.10	35.34	46.00	-10.66	QP

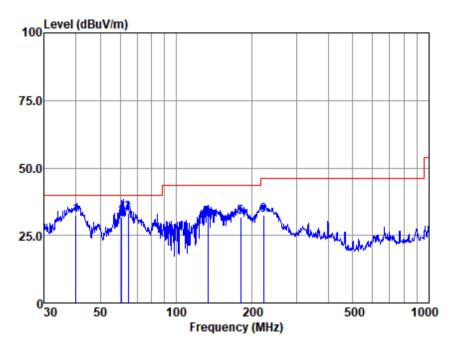
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :18384CR

Test mode :a

	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	
40.135	58.27	16.18	0.31	42.33	32.43	40.00	-7.57	QP
60.918	61.08	12.49	0.59	42.32	31.84	40.00	-8.16	QP
64.433	63.02	12.05	0.61	42.30	33.38	40.00	-6.62	QP
133.151	59.92	12.27	1.41	42.26	31.34	43.50	-12.16	QP
180.017	60.35	11.90	1.66	42.20	31.71	43.50	-11.79	QP
222.170	62.14	10.39	1.96	42.14	32.35	46.00	-13.65	OP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Above 1GHz		المعنات منظمان	Madulation	أبيام مماييا	-14b - 201 Al I	Channeld aw					
Frequency	RX_R	Factor	Emission	Limit	Margin	Channel:Low Detector					
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector					
4824	39.57	иБ 6.40	45.97	и <b>Б</b> и V/III 54	-8.03	noak					
7236	40.65	10.76	45.97 51.41	54 54	-6.03 -2.59	peak peak					
9648	34.91	14.37	49.28	54 54	-2.59 -4.72	peak					
9040	34.91	14.37	49.20	54	<b>-4.</b> 72	peak					
Mode:a: Pol	Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low										
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector					
MHz	dBuV	dB	dBuV/m	dBuV/m	dB						
4824	39.90	6.40	46.30	54	-7.70	peak					
7236	37.47	10.76	48.23	54	-5.77	peak					
9648	33.32	14.37	47.69	54	-6.31	peak					
						,					
Mode:a; Pol	arization:l	Horizontal;	Modulation	b; bandwi	dth:20MHz;	Channel:middle					
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector					
MHz	dBuV	dB	dBuV/m	dBuV/m	dB						
4874	43.66	6.92	50.58	54	-3.42	peak					
7311	38.97	11.08	50.05	54	-3.95	peak					
9748	31.99	14.36	46.35	54	-7.65	peak					
Mode:a; Pol	arization:\	√ertical; M	odulation:b;		n:20MHz; C	hannel:middle					
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector					
MHz	dBuV	dB	dBuV/m	dBuV/m	dB						
4874	41.63	6.92	48.55	54	-5.45	peak					
7311	38.35	11.08	49.43	54	-4.57	peak					
9748	35.04	14.36	49.40	54	-4.60	peak					
						Channel:High					
Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector					
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	1					
4924	43.23	7.31	50.54	54	-3.46	peak					
7386	37.26	11.41	48.67	54	-5.33	peak					
9848	31.50	14.38	45.88	54	-8.12	peak					
Mode:a; Pol	arization·\	/ertical: M	odulation:h:	handwidth	·20MHz· C	hannel·High					
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector					
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Dolootoi					
4924	39.50	7.31	46.81	54	-7.19	peak					
7386	39.32	11.41	50.73	54	-3.27	peak					
9848	32.88	14.38	47.26	54	-6.74	peak					
00.10	02.00	1 1.00	17.20	01	0.7 1	pour					
Mode:a; Pol	arization:l	Horizontal:	Modulation	g; bandwi	dth:20MHz;	Channel:Low					
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector					
MHz	dBuV	dB	dBuV/m	dBuV/m	dB						
4824	44.46	6.40	50.86	54	-3.14	peak					
7236	40.90	10.76	51.66	54	-2.34	peak					
9648	34.07	14.37	48.44	54	-5.56	peak					



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Mode:a; Pol	arization:\	/ertical: M	odulation:a:	bandwidth	:20MHz: C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.14	6.40	49.54	54	-4.46	peak
7236	35.66	10.76	46.42	54	-7.58	peak
9648	31.25	14.37	45.62	54	-8.38	peak
	•					F
Mode:a; Pol	arization:	Horizontal;	Modulation	:g; bandwid	dth:20MHz;	Channel:middle
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.75	6.92	50.67	54	-3.33	peak
7311	36.82	11.08	47.90	54	-6.10	peak
9748	32.45	14.36	46.81	54	-7.19	peak
						·
Mode:a; Pol	arization:\	/ertical; M	odulation:g;	bandwidth	:20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	41.12	6.92	48.04	54	-5.96	peak
7311	36.65	11.08	47.73	54	-6.27	peak
9748	35.17	14.36	49.53	54	-4.47	peak
						·
Mode:a; Pol	arization:	Horizontal;	Modulation	g; bandwid	dth:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	38.59	7.31	45.90	54	-8.10	peak
7386	36.39	11.41	47.80	54	-6.20	peak
9848	36.36	14.38	50.74	54	-3.26	peak
						F
Mode:a; Pol	arization:\	/ertical: M	odulation:a:	bandwidth	:20MHz: C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.37	7.31	49.68	54	-4.32	peak
7386	39.99	11.41	51.40	54	-2.60	peak
9848	32.08	14.38	46.46	54	-7.54	peak
00.10	02.00		10110	0.		poun
Mode:a: Pol	arization·l	Horizontal:	Modulation	n. pandwid	dth:20MHz:	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Dottooto.
4824	41.05	6.40	47.45	54	-6.55	peak
7236	35.40	10.76	46.16	54	-7.84	peak
9648	37.11	14.37	51.48	54	-2.52	peak
3040	57.11	14.07	31.40	J-1	2.02	poak
Mode:a; Pol	arization·\	/ertical· M	odulation:n:	bandwidth	.20MH2. ∪	hannel·l ow
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	20100101
4824	39.60	6.40	46.00	54	-8.00	peak
7236	40.03	10.76	50.79	54	-3.21	peak
9648	36.22	14.37	50.79	54	-3.41	peak
30 <del>1</del> 0	JU.ZZ	17.01	50.55	J <del>-1</del>	J. <del>T</del> I	peak



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Mode:a; Pol	arization:	Horizontal;	Modulation	n; bandwic	dth:20MHz;	Channel:middle
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.55	6.92	50.47	54	-3.53	peak
7311	34.58	11.08	45.66	54	-8.34	peak
9748	33.38	14.36	47.74	54	-6.26	peak
						hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.08	6.92	47.00	54	-7.00	peak
7311	39.31	11.08	50.39	54	-3.61	peak
9748	33.27	14.36	47.63	54	-6.37	peak
Mode:a; Pol						_
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	41.52	7.31	48.83	54	-5.17	peak
7386	37.80	11.41	49.21	54	-4.79	peak
9848	33.67	14.38	48.05	54	-5.95	peak
Mode:a; Pol						-
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.14	7.31	49.45	54	-4.55	peak
7386	36.81	11.41	48.22	54	<b>-</b> 5.78	peak
9848	34.78	14.38	49.16	54	-4.84	peak
•		-		•	-	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	41.42	6.60	48.02	54	-5.98	peak
7266	35.78	10.89	46.67	54	-7.33	peak
9688	35.03	14.35	49.38	54	-4.62	peak
					401411 0	
Mode:a; Pol						
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	39.98	6.60	46.58	54	-7.42	peak
7266	36.29	10.89	47.18	54	-6.82	peak
9688	35.75	14.35	50.10	54	-3.90	peak
						Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.94	6.92	45.86	54	-8.14	peak
7311	38.95	11.08	50.03	54	-3.97	peak
9748	36.45	14.36	50.81	54	-3.19	peak



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Mode:a; Po	larization:	Vertical; M	odulation:n;	bandwidth	:40MHz;	Channel:middle	
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector	
MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
4874	39.80	6.92	46.72	54	-7.28	peak	
7311	36.13	11.08	47.21	54	-6.79	peak	
9748	31.25	14.36	45.61	54	-8.39	peak	
Mode:a; Po	olarization:l	Horizontal;	Modulation:	n; bandwi	dth:40MH	z; Channel:High	
Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector	
N 41 1-	-ID1/	-ID	-ID - 1//	-ID - 1//	.ID		

Frequency	$RX_R$	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	42.83	7.22	50.05	54	-3.95	peak
7356	35.71	11.28	46.99	54	-7.01	peak
9808	35.23	14.37	49.60	54	-4.40	peak

Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

Frequency	$RX_R$	Factor	<b>Emission</b>	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	38.28	7.22	45.50	54	-8.50	peak
7356	39.99	11.28	51.27	54	-2.73	peak
9808	33.72	14.37	48.09	54	-5.91	peak



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## 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

## 9 EUT Constructional Details

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

- End of the Report -