

Report No.: SHEM190101017001

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TEST REPORT

Application No.: SHEM1901010170CR **FCC ID** 2ADTD-5604SD

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.

Hangzhou Hikvision Electronics Co., Ltd.
 Chongqing Hikvision technology Co., LTD.

4, Hangzhou Hikvision Digital Technology 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

3, No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou

District, Chongging.

4, No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

Equipment Under Test (EUT):

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EUT Name: Digital Video Recorder

Model No.: DS-MP3504-SD, DS-MP5604-SD, DS-MP3504-SD/GW, DS-MP5604-

SD/GW, DS-MP3504-SD/GW/WI, DS-MP5604-SD/GW/WI, DS-MP5604-SD/GW/WI58, DS-MP3504-SD/GLF, DS-MP5604-SD/GLF, DS-MP3504-SD/GLF/WI, DS-MP5604-SD/GLF/WI58, DS-MP5XXX-SD/YY/ZZ, DS-MP5604-SDUHK, DS-MP5604-SDCKV, DS-MP5604-SDUVS, DS-MP5604-SDKVO, DS-MP5604-SDHUN ¤

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: 2019-01-09

Date of Test: 2019-02-20 to 2019-02-23

Date of Issue: 2019-02-23

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.

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

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



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	Revision Record			
Version	Description	Date	Remark	
00	Original	2019-02-23	/	

Authorized for issue by:		
	Bril Wu	
	Bill Wu / 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)	Pass

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 Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	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 11.10.2	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 identical in electrical and electronic characters. Only the model DS-MP5604-SD and DS-MP5604-SD/GW was tested since their differences were the model number and appearance.

The model DS-MP3504-SD/GW; DS-MP5604-SD/GW; DS-MP3504-SD/GW/WI; DS-MP5604-SD/GW/WI; DS-MP5604-SD/GW/WI58; used the model of UC20: FCC ID: XMR201510UC20

The model DS-MP3504-SD; DS-MP5604-SD; DS-MP3504-SD/GLF; DS-MP5604-SD/GLF;

DS-MP3504-SD/GLF/WI; DS-MP5604-SD/GLF/WI; DS-MP5604-SD/GLF/WI58;

DS-MP5XXX-SD/YY/ZZ; DS-MP5604-SDUHK; DS-MP5604-SDCKV; DS-MP5604-SDUVS;

DS-MP5604-SDKVO; DS-MP5604-SDHUN; used the model of EC25: FCC ID: XMR201805EC25AU



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 9-32V
Test voltage: DC 12V
Antenna Gain 3dBi

Antenna Type Dipole 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	/

4.3 Power level setting using in test

Channel	802.11b	802.11g	802.11n(HT20)
1	34	48	46
6	34	48	46
11	34	48	46
Channel	802.11n(HT40)		
3	42		
6	42		

42

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
8	RF Radiated power	±4.6dB (Below 1GHz)
0	KF Kadiated power	±4.1dB (Above 1GHz)
		±4.2dB (Below 30MHz)
9	Dadiated Churique emission test	±4.4dB (30MHz-1GHz)
9	Radiated Spurious emission test	±4.8dB (1GHz-18GHz)
		±5.2dB (Above 18GHz)



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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.

• Industry Canada (IC) - IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

• 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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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	/	/
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 dipole antenna and no consideration of replacement. The best case gain of the antenna is 3dBi.





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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:

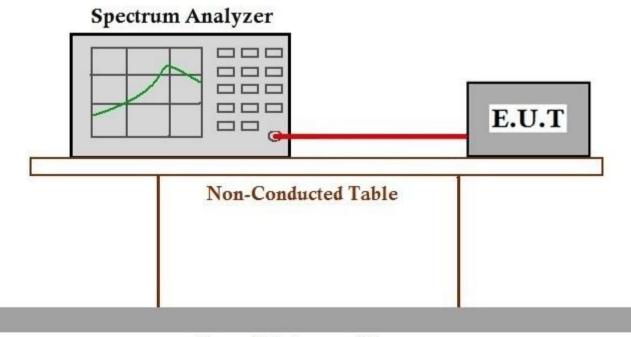
Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the WiFi+3G module 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 SHEM190101017001



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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.1

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	5-5850 1 for frequency hopping systems and digital modulation	

7.2.1 E.U.T. Operation

Operating Environment:

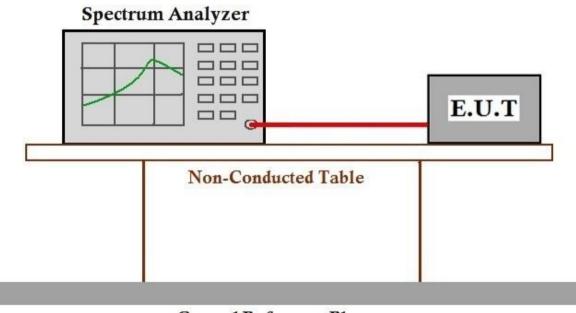
Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the WiFi+3G module 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 SHEM190101017001

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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 11.10.2

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

transmission

7.3.1 E.U.T. Operation

Operating Environment:

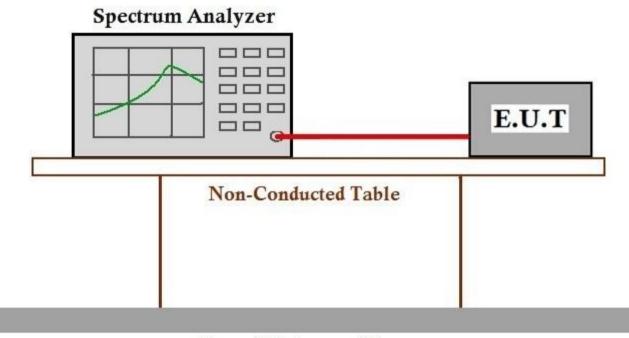
Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the WiFi+3G module 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 SHEM190101017001



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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)

7.4.1 E.U.T. Operation

Operating Environment:

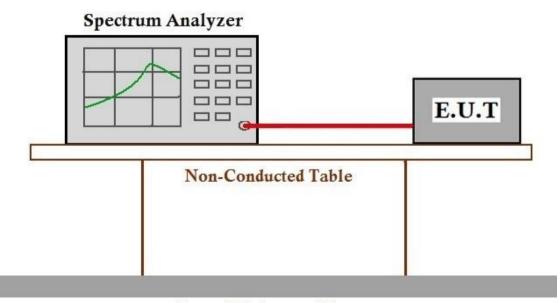
Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the WiFi+3G module 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 SHEM190101017001



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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

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:

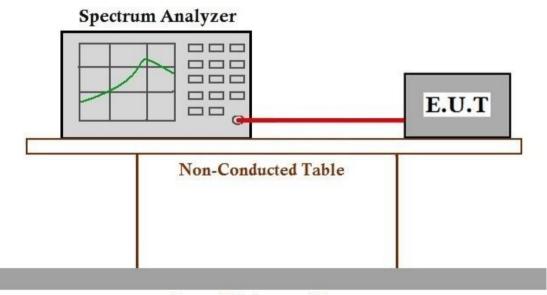
Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode_Keep the WiFi+3G module 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 SHEM190101017001

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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.

7.6.1 E.U.T. Operation

Test mode:

Operating Environment:

Temperature: 20 Humidity: 50 % RH Atmospheric Pressure: 1010 mbar °C

a:TX mode_Keep the WiFi+3G module 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.

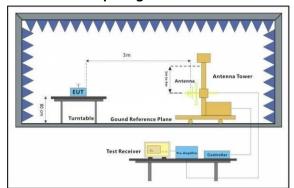
c:TX mode Keep the WiFi+4G module in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case

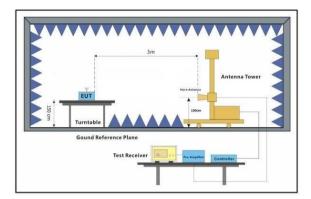
of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

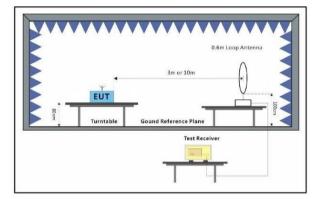


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7.6.2 Test Setup Diagram









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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.

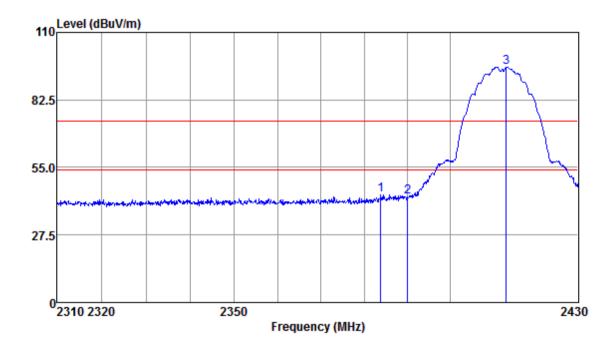
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



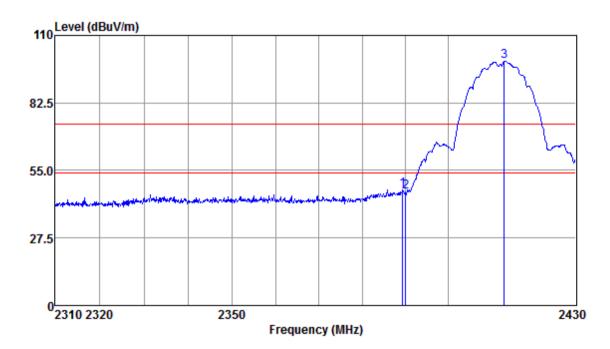
Antenna Polarity : HORIZONTAL

	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	
2383.80	48.80	26.03	6.47	37.36	43.94	74.00	-30.06	Peak
2390.00	48.08	26.03	6.47	37.36	43.22	74.00	-30.78	Peak
2413.08	100.66	26.08	6.50	37.36	95.88	74.00	21.88	Peak



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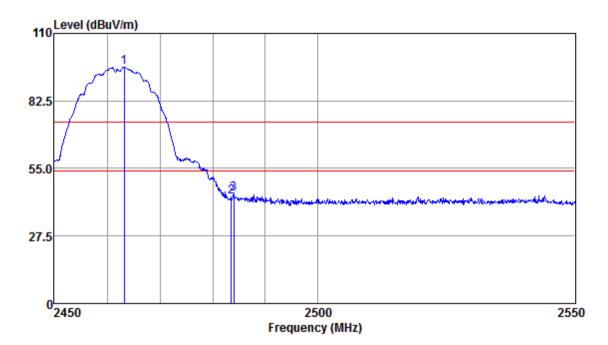
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.36	51.82	26.03	6.47	37.36	46.96	74.00	-27.04	Peak
2390.00	50.94	26.03	6.47	37.36	46.08	74.00	-27.92	Peak
2413.08	104.13	26.08	6.50	37.36	99.35	74.00	25.35	Peak



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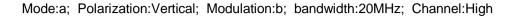


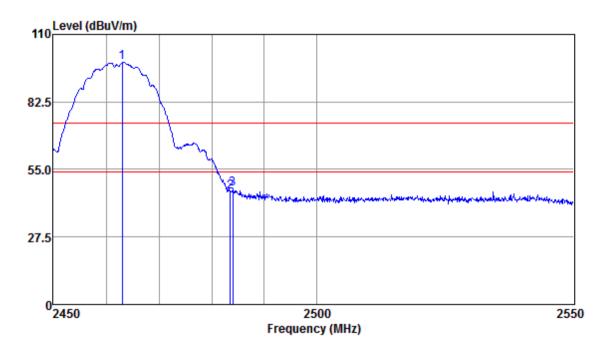
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.17	100.82	26.15	6.68	37.46	96.19	74.00	22.19	Peak
2483.50	48.10	26.18	6.80	37.51	43.57	74.00	-30.43	Peak
2484.05	48.99	26.18	6.80	37.51	44.46	74.00	-29.54	Peak



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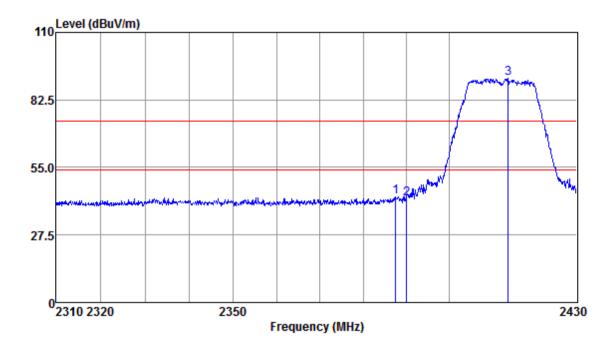
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2462.97	103.18	26.15	6.68	37.46	98.55	74.00	24.55	Peak
2483.50	50.57	26.18	6.80	37.51	46.04	74.00	-27.96	Peak
2484.05	51.79	26.18	6.80	37.51	47.26	74.00	-26.74	Peak



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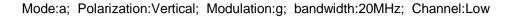


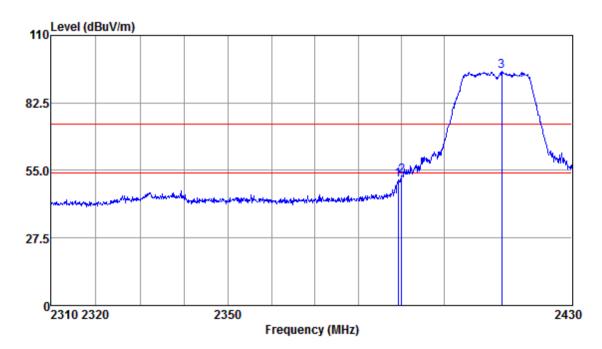
Antenna Polarity : HORIZONTAL

Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Level	Factor	Loss	Factor	Level	Line	Limit	Remark
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
47.91	26.03	6.47	37.36	43.05	74.00	-30.95	Peak
46.95	26.03	6.47	37.36	42.09	74.00	-31.91	Peak
96.23	26.08	6.50	37.36	91.45	74.00	17.45	Peak
	dBuv 47.91 46.95	Level Factor dBuv dB/m 47.91 26.03 46.95 26.03	Level Factor Loss dBuv dB/m dB 47.91 26.03 6.47 46.95 26.03 6.47	Level Factor Loss Factor dBuv dB/m dB dB 47.91 26.03 6.47 37.36 46.95 26.03 6.47 37.36	Level Factor Loss Factor Level dBuv dB/m dB dB dBuv/m 47.91 26.03 6.47 37.36 43.05 46.95 26.03 6.47 37.36 42.09	Level Factor Loss Factor Level Line dBuv dB/m dB dB dBuv/m dBuv/m 47.91 26.03 6.47 37.36 43.05 74.00 46.95 26.03 6.47 37.36 42.09 74.00	Read Antenna Cable Preamp Emission Limit Over Level Factor Loss Factor Level Line Limit dBuv dB/m dB dBuv/m dBuv/m dB 47.91 26.03 6.47 37.36 43.05 74.00 -30.95 46.95 26.03 6.47 37.36 42.09 74.00 -31.91 96.23 26.08 6.50 37.36 91.45 74.00 17.45



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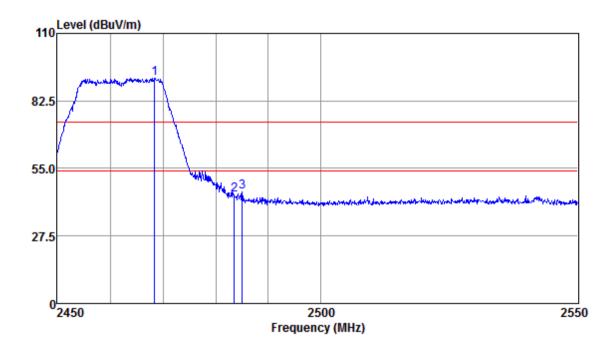
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.24	55.82	26.03	6.47	37.36	50.96	74.00	-23.04	Peak
2390.00	57.72	26.03	6.47	37.36	52.86	74.00	-21.14	Peak
2413.44	100.14	26.08	6.50	37.36	95.36	74.00	21.36	Peak



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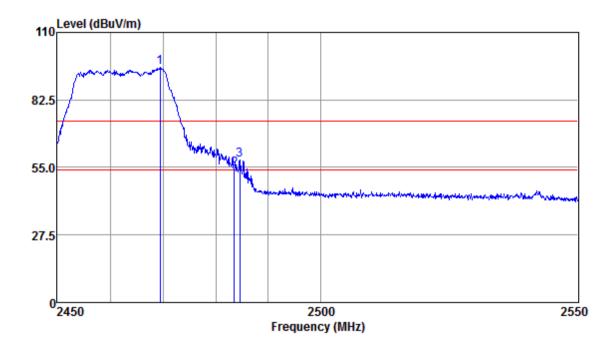
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.40	96.49	26.16	6.74	37.48	91.91	74.00	17.91	Peak
2483.50	48.60	26.18	6.80	37.51	44.07	74.00	-29.93	Peak
2485.04	49.89	26.18	6.80	37.51	45.36	74.00	-28.64	Peak



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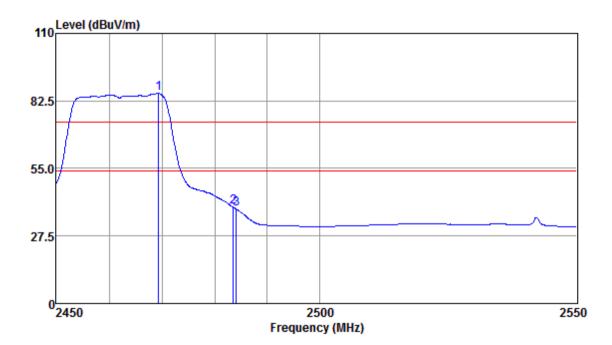
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2469.39	100.28	26.16	6.74	37.48	95.70	74.00	21.70	Peak
2483.50	58.76	26.18	6.80	37.51	54.23	74.00	-19.77	Peak
2484.55	62.62	26.18	6.80	37.51	58.09	74.00	-15.91	Peak



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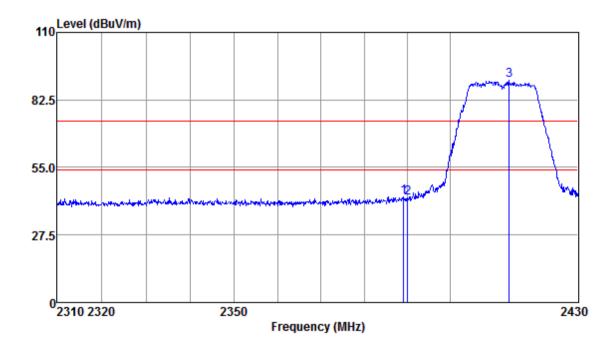
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2469.29	90.17	26.16	6.74	37.48	85.59	54.00	31.59	Average
2483.50	43.82	26.18	6.80	37.51	39.29	54.00	-14.71	Average
2484.15	42.92	26.18	6.80	37.51	38.39	54.00	-15.61	Average



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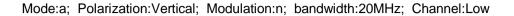


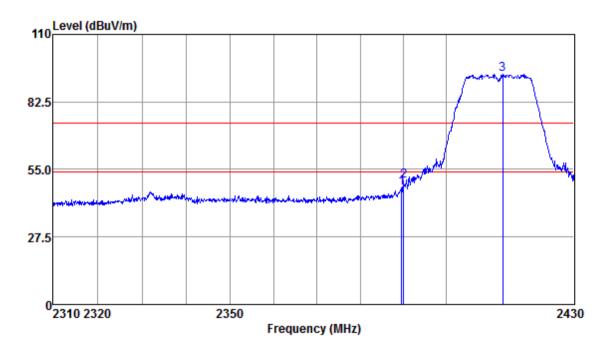
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.12	48.08	26.03	6.47	37.36	43.22	74.00	-30.78	Peak
2390.00	47.64	26.03	6.47	37.36	42.78	74.00	-31.22	Peak
2413.81	95.12	26.08	6.50	37.36	90.34	74.00	16.34	Peak



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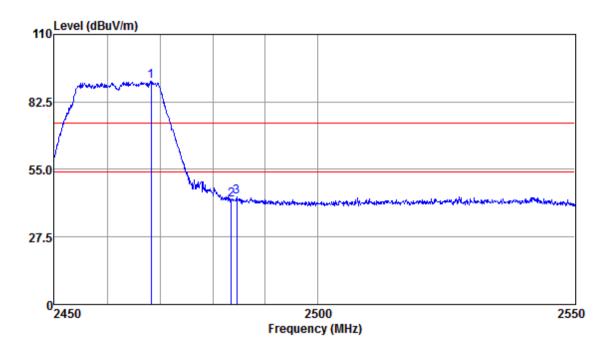
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
					47.62			Peak
2390.00	55.13	26.03	6.47	37.36	50.27	74.00	-23.73	Peak
2413.20	98.74	26.08	6.50	37.36	93.96	74.00	19.96	Peak



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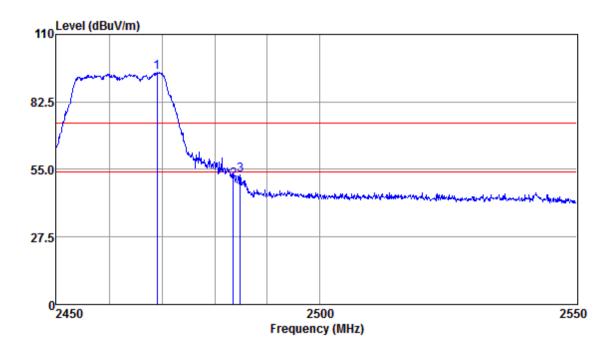
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MU-	dD	dD /m			dD/m	dD/m		
MHZ	abuv	ab/m	ав	ав	dBuv/m	abuv/m	ав	
2468.30	95.49	26.16	6.74	37.48	90.91	74.00	16.91	Peak
2483.50	47.13	26.18	6.80	37.51	42.60	74.00	-31.40	Peak
2484.55	48.24	26.18	6.80	37.51	43.71	74.00	-30.29	Peak



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



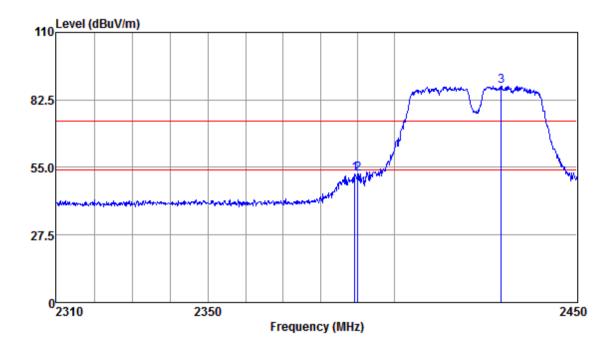
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2469.09	99.24	26.16	6.74	37.48	94.66	74.00	20.66	Peak
2483.50	55.41	26.18	6.80	37.51	50.88	74.00	-23.12	Peak
2484.84	57.11	26.18	6.80	37.51	52.58	74.00	-21.42	Peak



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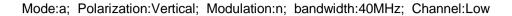


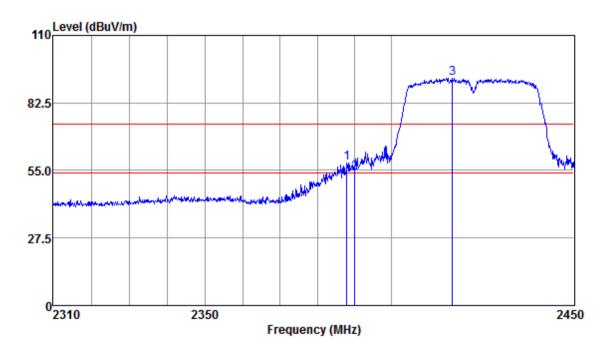
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.21	57.10	26.03	6.47	37.36	52.24	74.00	-21.76	Peak
2390.00	57.36	26.03	6.47	37.36	52.50	74.00	-21.50	Peak
2429.04	92.86	26.10	6.56	37.39	88.13	74.00	14.13	Peak



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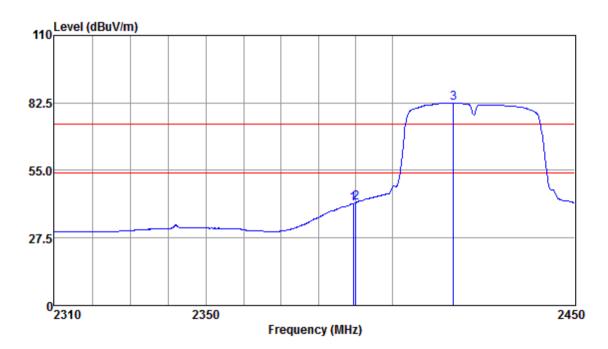
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
					58.07			Peak
2390.00	58.79	26.03	6.47	37.36	53.93	74.00	-20.07	Peak
2416.50	97.22	26.08	6.56	37.36	92.50	74.00	18.50	Peak



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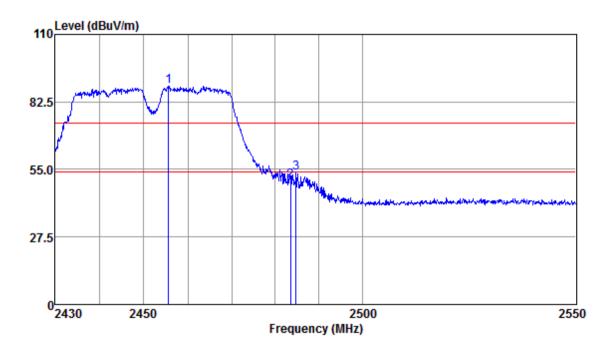
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.35	46.39	26.03	6.47	37.36	41.53	54.00	-12.47	Average
2390.00	46.72	26.03	6.47	37.36	41.86	54.00	-12.14	Average
2416.50	87.15	26.08	6.56	37.36	82.43	54.00	28.43	Average



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

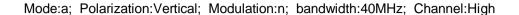


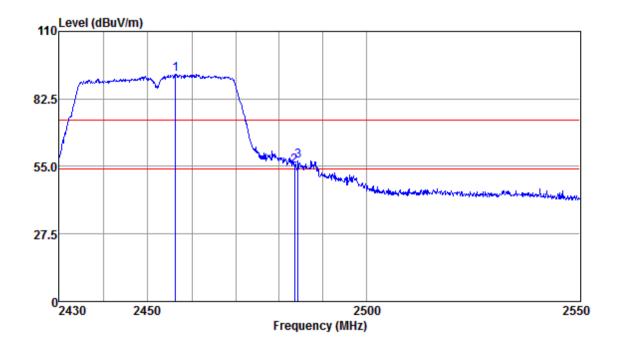
Antenna Polarity : HORIZONTAL

		0ver	Limit	Emission	Preamp	Cable	Antenna	Read	
nark	Ren	Limit	Line	Level	Factor	Loss	Factor	Level	Freq
		dB	dBuv/m	dBuv/m	dB	dB	dB/m	dBuv	MHz
≥ak	Pe	14.80	74.00	88.80	37.45	6.68	26.14	93.43	2455.55
≥ak	Pe	-23.77	74.00	50.23	37.51	6.80	26.18	54.76	2483.50
≥ak	Pe	-20.57	74.00	53.43	37.51	6.80	26.18	57.96	2484.72
eal	Pe	14.80 -23.77	74.00 74.00	88.80 50.23	37.45 37.51	6.68 6.80	26.14 26.18	93.43 54.76	2455.55 2483.50



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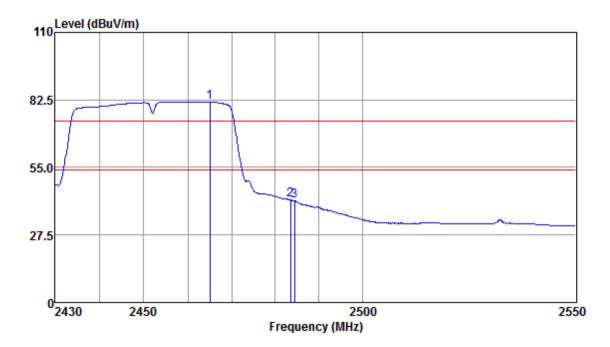
Antenna Polarity : VERTICAL

	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	
2456.26	97.15	26.14	6.68	37.45	92.52	74.00	18.52	Peak
2483.50	59.72	26.18	6.80	37.51	55.19	74.00	-18.81	Peak
2484.24	61.86	26.18	6.80	37.51	57.33	74.00	-16.67	Peak



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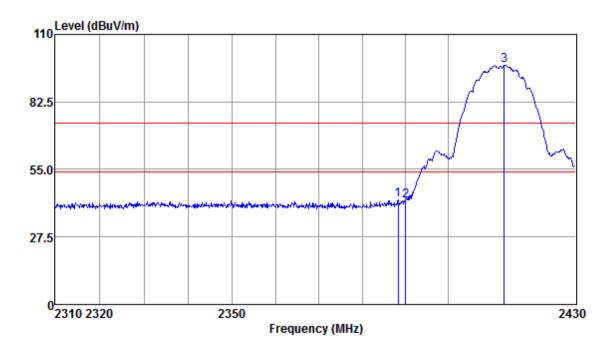
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2465.04	86.33	26.15	6.74	37.46	81.76	54.00	27.76	Average
2483.50	46.28	26.18	6.80	37.51	41.75	54.00	-12.25	Average
2484.36	45.91	26.18	6.80	37.51	41.38	54.00	-12.62	Average



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



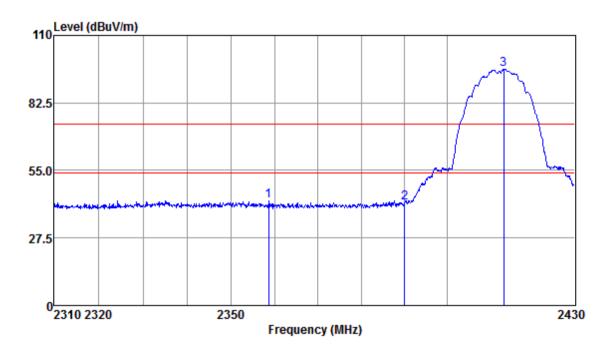
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.27	47.33	26.03	6.47	37.36	42.47	74.00	-31.53	Peak
2390.00	47.01	26.03	6.47	37.36	42.15	74.00	-31.85	Peak
2413.08	102.23	26.08	6.50	37.36	97.45	74.00	23.45	Peak



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



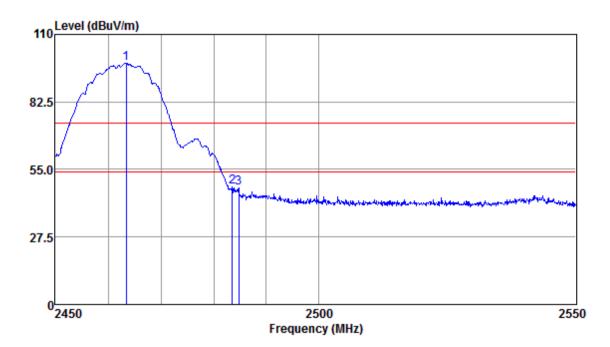
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2358.71	47.63	25.99	6.42	37.36	42.68	74.00	-31.32	Peak
2390.00	46.81	26.03	6.47	37.36	41.95	74.00	-32.05	Peak
2413.20	101.01	26.08	6.50	37.36	96.23	74.00	22.23	Peak



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



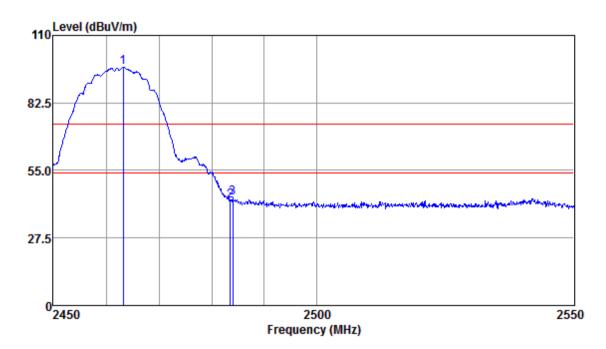
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.37	102.87	26.15	6.68	37.46	98.24	74.00	24.24	Peak
2483.50	52.25	26.18	6.80	37.51	47.72	74.00	-26.28	Peak
2484.75	52.14	26.18	6.80	37.51	47.61	74.00	-26.39	Peak



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



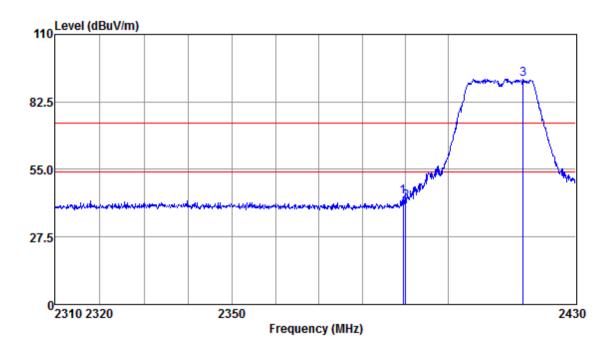
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.17	101.58	26.15	6.68	37.46	96.95	74.00	22.95	Peak
2483.50	47.33	26.18	6.80	37.51	42.80	74.00	-31.20	Peak
2484.05	48.34	26.18	6.80	37.51	43.81	74.00	-30.19	Peak



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



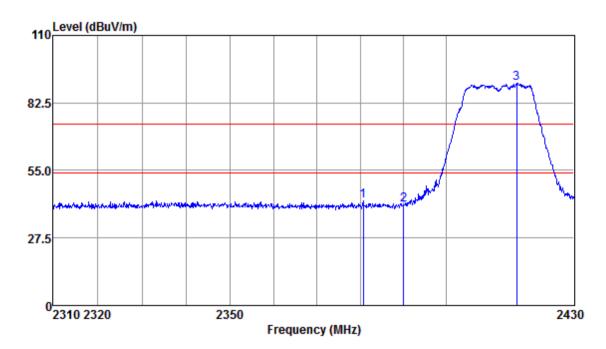
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.48	48.53	26.03	6.47	37.36	43.67	74.00	-30.33	Peak
2390.00	46.48	26.03	6.47	37.36	41.62	74.00	-32.38	Peak
2417.48	96.53	26.08	6.56	37.36	91.81	74.00	17.81	Peak



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



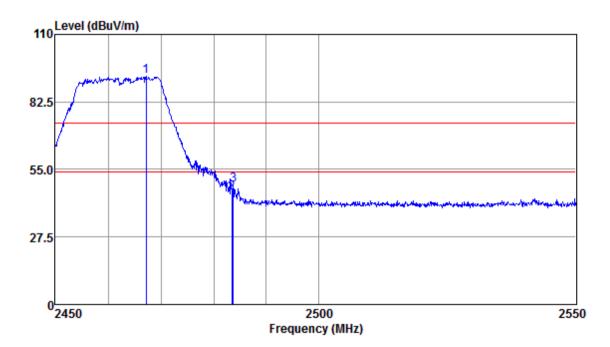
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2380.67	47.54	26.02	6.45	37.36	42.65	74.00	-31.35	Peak
2390.00	45.90	26.03	6.47	37.36	41.04	74.00	-32.96	Peak
2416.50	95.14	26.08	6.56	37.36	90.42	74.00	16.42	Peak



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



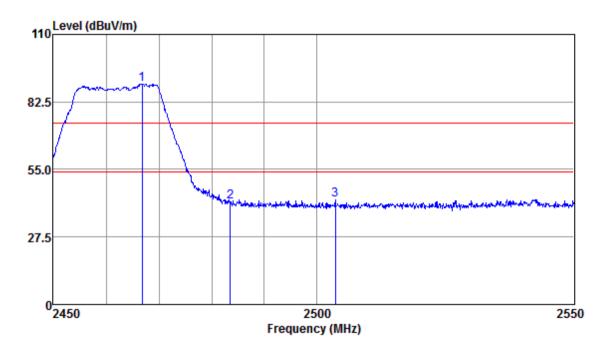
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2467.11	97.33	26.15	6.74	37.46	92.76	74.00	18.76	Peak
2483.45	49.93	26.18	6.80	37.51	45.40	74.00	-28.60	Peak
2483.75	53.08	26.18	6.80	37.51	48.55	74.00	-25.45	Peak



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



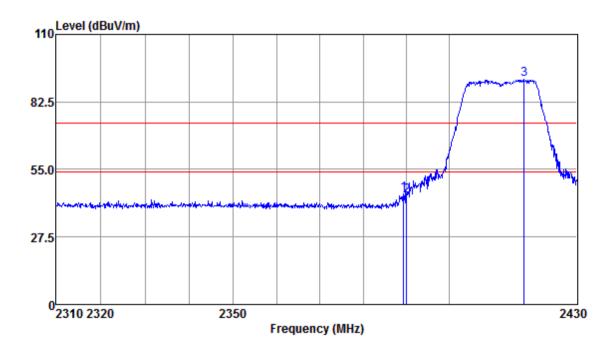
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2466.82	94.32	26.15	6.74	37.46	89.75	74.00	15.75	Peak
2483.50	46.41	26.18	6.80	37.51	41.88	74.00	-32.12	Peak
2503.70	47.19	26.22	6.86	37.55	42.72	74.00	-31.28	Peak



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



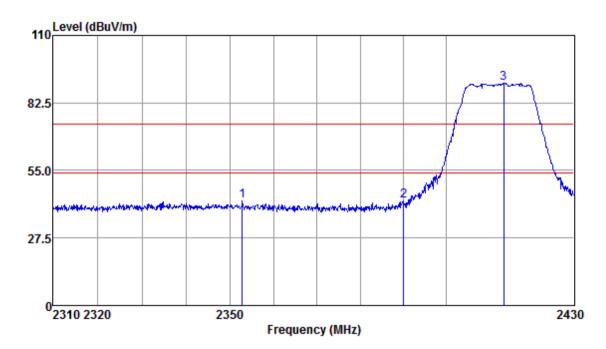
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
					44.86			Peak
2390.00	49.09	26.03	6.47	37.36	44.23	74.00	-29.77	Peak
2417.48	96.35	26.08	6.56	37.36	91.63	74.00	17.63	Peak



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



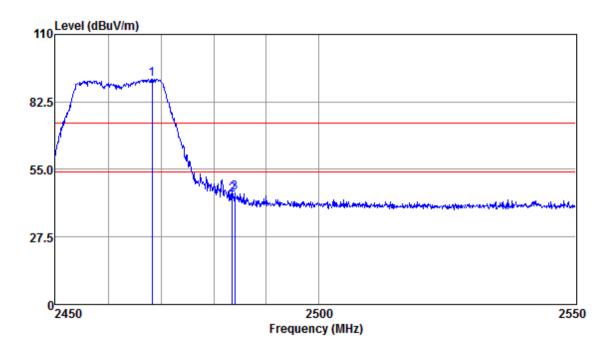
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2352.86	47.58	25.98	6.42	37.36	42.62	74.00	-31.38	Peak
2390.00	47.54	26.03	6.47	37.36	42.68	74.00	-31.32	Peak
2413.44	95.32	26.08	6.50	37.36	90.54	74.00	16.54	Peak



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



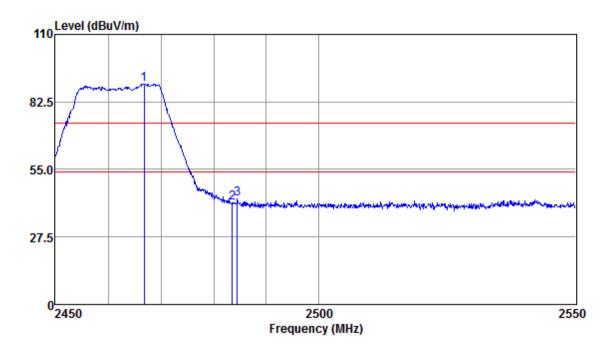
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuy	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
					91.88			Peak
2483.50	49.07	26.18	6.80	37.51	44.54	74.00	-29.46	Peak
2484.05	50.12	26.18	6.80	37.51	45.59	74.00	-28.41	Peak



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



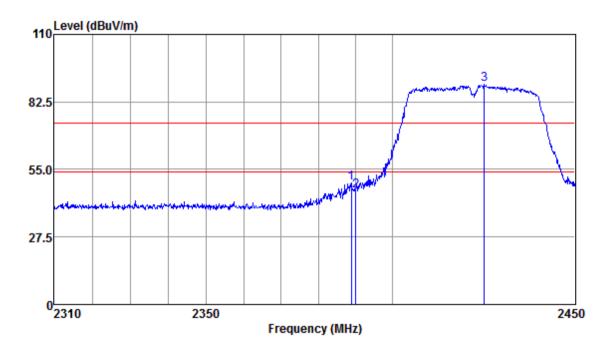
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
					89.75			Peak
2483.50	46.05	26.18	6.80	37.51	41.52	74.00	-32.48	Peak
2484.45	47.75	26.18	6.80	37.51	43.22	74.00	-30.78	Peak



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



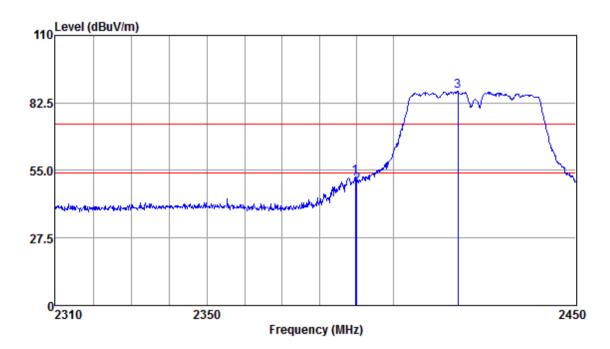
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.79	54.23	26.03	6.47	37.36	49.37	74.00	-24.63	Peak
2390.00	51.22	26.03	6.47	37.36	46.36	74.00	-27.64	Peak
2425.04	94.42	26.09	6.56	37.38	89.69	74.00	15.69	Peak



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



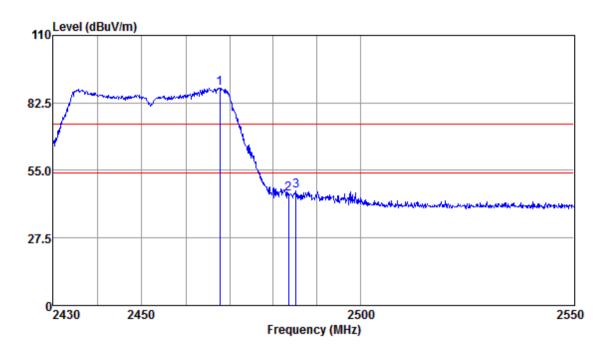
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.63	57.20	26.03	6.47	37.36	52.34	74.00	-21.66	Peak
2390.00	54.08	26.03	6.47	37.36	49.22	74.00	-24.78	Peak
2417.49	91.83	26.08	6.56	37.36	87.11	74.00	13.11	Peak



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



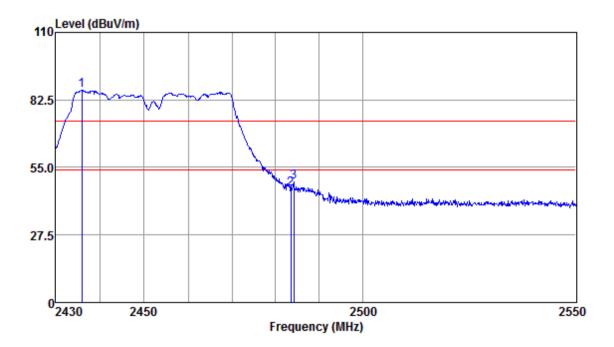
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2467.77	93.20	26.16	6.74	37.48	88.62	74.00	14.62	Peak
2483.50	49.95	26.18	6.80	37.51	45.42	74.00	-28.58	Peak
2485.20	51.10	26.18	6.80	37.51	46.57	74.00	-27.43	Peak



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



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2435.86	91.12	26.11	6.62	37.41	86.44	74.00	12.44	Peak
2483.50	50.96	26.18	6.80	37.51	46.43	74.00	-27.57	Peak
2484.12	53.60	26.18	6.80	37.51	49.07	74.00	-24.93	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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode: a:TX mode_Keep the WiFi+3G module 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.

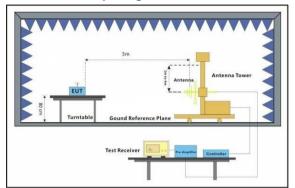
c:TX mode_Keep the WiFi+4G module in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6.5Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE

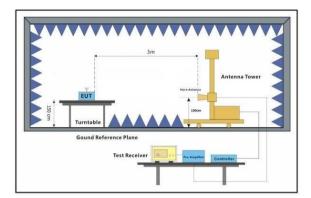
802.11n(HT40). Only the data of worst case is recorded in the report.

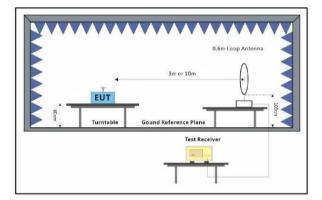


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7.7.2 Test Setup Diagram









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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

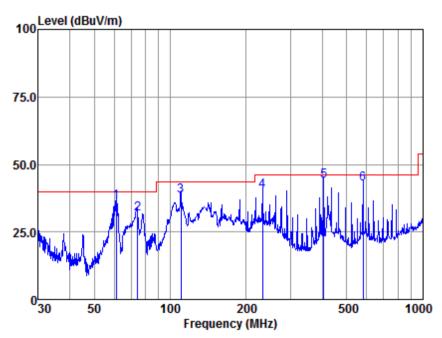
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 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 :10169CR

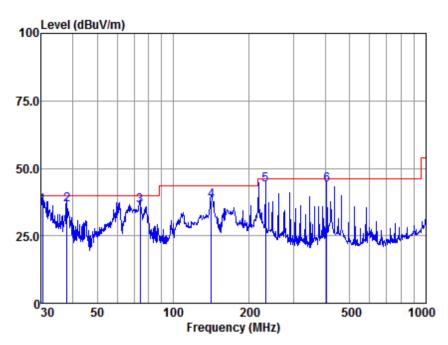
Test mode :a

		Read	Antenna	Cable	Preamp	Emissio	n Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	61.13	66.10	12.46	1.32	43.75	36.13	40.00	-3.87	QP
2	74.14	64.05	9.97	1.48	43.73	31.77	40.00	-8.23	QP
3	110.18	70.51	9.60	1.86	43.74	38.23	43.50	-5.27	QP
4	231.72	70.46	10.78	2.74	43.66	40.32	46.00	-5.68	QP
5	406.09	68.59	15.23	3.65	43.58	43.89	46.00	-2.11	QP
6	580.70	62.55	19.02	4.55	43.23	42.89	46.00	-3.11	QP



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Mode:a; Polarization:Vertical



Antenna Polarity : VERTICAL EUT/Project :10169CR

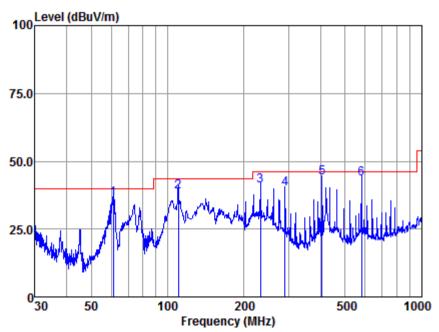
Test mode

		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	
1	30.42	63.70	15.35	0.91	43.66	36.30	40.00	-3.70	QP
2	37.94	63.04	16.12	1.02	43.69	36.49	40.00	-3.51	QP
3	73.88	68.45	10.06	1.48	43.74	36.25	40.00	-3.75	QP
4	141.83	68.34	11.42	2.12	43.73	38.15	43.50	-5.35	QP
5	231.72	74.17	10.78	2.74	43.66	44.03	46.00	-1.97	QP
6	406.09	68.73	15.23	3.65	43.58	44.03	46.00	-1.97	QP



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Mode:c; Polarization:Horizontal



Antenna Polarity : HORIZONTAL EUT/Project :10169CR

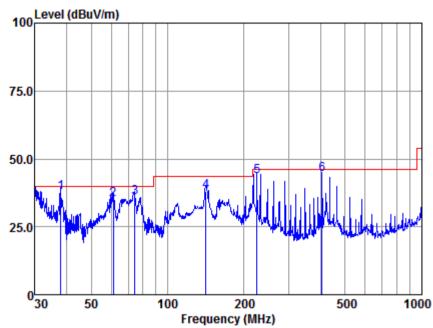
Test mode : c

	Freq		Antenna Factor						Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	61.13	66.21	12.46	1.32	43.75	36.24	40.00	-3.76	QP
2	110.18	71.10	9.60	1.86	43.74	38.82	43.50	-4.68	QP
3	231.72	71.14	10.78	2.74	43.66	41.00	46.00	-5.00	QP
4	290.02	67.43	12.87	3.14	43.69	39.75	46.00	-6.25	QP
5	406.09	68.44	15.23	3.65	43.58	43.74	46.00	-2.26	QP
6	580.70	63.13	19.02	4.55	43.23	43.47	46.00	-2.53	QP



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Mode:c; Polarization:Vertical



Antenna Polarity : VERTICAL EUT/Project :10169CR

Test mode : C

		Read	Antenna	Cable	Preamp	Emissio	n Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	37.94	64.05	16.12	1.02	43.69	37.50	40.00	-2.50	QP
2	61.13	65.13	12.46	1.32	43.75	35.16	40.00	-4.84	QP
3	74.14	68.23	9.97	1.48	43.73	35.95	40.00	-4.05	QP
4	141.33	68.34	11.39	2.12	43.73	38.12	43.50	-5.38	QP
5	224.52	74.03	10.48	2.76	43.66	43.61	46.00	-2.39	QP
6	406.09	68.89	15.23	3.65	43.58	44.19	46.00	-1.81	QP



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Above 1GHz						
Mode:a; Polarization:Horizontal;			Modulation:b;	bandwid	lth:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
	ID 1/		ID 1//	ID 1//	in.	

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector	
MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
4824	39.44	6.40	45.84	54	-8.16	peak	
7236	41.07	10.76	51.83	54	-2.17	peak	
9648	37.46	14.37	51.83	54	-2.17	peak	

Mode:a; Pol	arization:\	/ertical; Mo	dulation:b;	bandwidth:20MHz; Channel:Low				
Frequency	RX_R	Factor Emissio		Limit	Margin	Detector		
MHz	dBuV	dB	dBuV/m	dBuV/m	dB			
4824	41.84	6.40	48.24	54	-5.76	peak		
7236	40.33	10.76	51.09	54	-2.91	peak		
9648	31 79	14 37	46 16	54	-7 84	neak		

Mode:a; Pol	arization:l	Horizontal;	Modulation:b;	bandwic	th:20MHz;	Channel:midd	le
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector	
MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
4874	41.55	6.92	48.47	54	-5.53	peak	
7311	34.91	11.08	45.99	54	-8.01	peak	
9748	31.15	14.36	45.51	54	-8.49	peak	

Ν	Mode:a; Pol	arization:\	/ertical; Mo	dulation:b;	bandwidth:2	20MHz; Ch	nannel:middle	
	Frequency	RX_R	Factor	Emission	Limit	Margin	Detector	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
	4874	41.13	6.92	48.05	54	-5.95	peak	
	7311	38.47	11.08	49.55	54	-4.45	peak	
	9748	36.57	14.36	50.93	54	-3.07	peak	

Mode:a; Pola	arization:l	Horizontal;	Modulation:b	; bandwid	lth:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.21	7.31	46.52	54	-7.48	peak
7386	38.01	11.41	49.42	54	-4.58	peak
9848	36.55	14.38	50.93	54	-3.07	peak

Mode:a; Pol	arization:\	/ertical; Mo	dulation:b;	bandwidth:2	20MHz; Ch	annel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	41.81	7.31	49.12	54	-4.88	peak
7386	37.99	11.41	49.40	54	-4.60	peak
9848	35.00	14.38	49.38	54	-4.62	peak



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Mode:a: Pol	arization:F	lorizontal:	Modulation:	: bandwidt	h:20MHz:	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.24	6.40	46.64	54	-7.36	peak
7236	36.46	10.76	47.22	54	-6.78	peak
9648	33.95	14.37	48.32	54	-5.68	peak
						F
Mode:a; Pol	arization:V	ertical; M	odulation:g; b	oandwidth:2	20MHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.39	6.40	48.79	54	-5.21	peak
7236	37.95	10.76	48.71	54	-5.29	peak
9648	30.04	14.37	44.41	54	-9.59	peak
· ·		-	_	•	-	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.31	6.92	46.23	54	-7.77	peak
7311	39.76	11.08	50.84	54	-3.16	peak
9748	36.93	14.36	51.29	54	-2.71	peak
Modera: Pol	arization:\/	/ertical: M	odulation:a: ł	nandwidth:	20MHz· C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	2010010.
4874	41.72	6.92	48.64	54	-5.36	peak
7311	37.34	11.08	48.42	54	-5.58	peak
9748	33.17	14.36	47.53	54	-6.47	peak
07.10	00		11.00	0.	0	podit
Mode:a; Pol	arization:F	lorizontal;	Modulation:g	; bandwidt	h:20MHz;	Channel:High
Frequency	RX R					
ricquericy	10/_1	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	Margin dB	Detector
					_	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
MHz 4924	dBuV 39.97	dB 7.31	dBuV/m 47.28	dBuV/m 54	dB -6.72	peak
MHz 4924 7386 9848	dBuV 39.97 34.97 31.61	dB 7.31 11.41 14.38	dBuV/m 47.28 46.38 45.99	dBuV/m 54 54 54	dB -6.72 -7.62 -8.01	peak peak peak
MHz 4924 7386 9848 Mode:a; Pol:	dBuV 39.97 34.97 31.61 arization:V	dB 7.31 11.41 14.38 /ertical; M	dBuV/m 47.28 46.38 45.99 odulation:g; I	dBuV/m 54 54 54 oandwidth:2	dB -6.72 -7.62 -8.01 20MHz; C	peak peak peak hannel:High
MHz 4924 7386 9848 Mode:a; Pola Frequency	dBuV 39.97 34.97 31.61 arization:V	dB 7.31 11.41 14.38 /ertical; M Factor	dBuV/m 47.28 46.38 45.99 odulation:g; b Emission	dBuV/m 54 54 54 5andwidth:2	dB -6.72 -7.62 -8.01 20MHz; Cl Margin	peak peak peak
MHz 4924 7386 9848 Mode:a; Pol: Frequency MHz	dBuV 39.97 34.97 31.61 arization:V RX_R dBuV	dB 7.31 11.41 14.38 /ertical; M Factor dB	dBuV/m 47.28 46.38 45.99 odulation:g; b Emission dBuV/m	dBuV/m 54 54 54 candwidth:2 Limit dBuV/m	dB -6.72 -7.62 -8.01 20MHz; Ci Margin dB	peak peak peak hannel:High Detector
MHz 4924 7386 9848 Mode:a; Pola Frequency MHz 4924	dBuV 39.97 34.97 31.61 arization:V RX_R dBuV 38.68	dB 7.31 11.41 14.38 /ertical; M Factor dB 7.31	dBuV/m 47.28 46.38 45.99 odulation:g; t Emission dBuV/m 45.99	dBuV/m 54 54 54 coandwidth:2 Limit dBuV/m 54	dB -6.72 -7.62 -8.01 20MHz; Cl Margin dB -8.01	peak peak peak hannel:High Detector peak
MHz 4924 7386 9848 Mode:a; Pol: Frequency MHz	dBuV 39.97 34.97 31.61 arization:V RX_R dBuV	dB 7.31 11.41 14.38 /ertical; M Factor dB	dBuV/m 47.28 46.38 45.99 odulation:g; b Emission dBuV/m	dBuV/m 54 54 54 candwidth:2 Limit dBuV/m	dB -6.72 -7.62 -8.01 20MHz; Ci Margin dB	peak peak peak hannel:High Detector



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Mode:a: Pol	arization:F	Horizontal:	Modulation:n	: bandwid	th:20MHz:	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	20100101
4824	38.53	6.40	44.93	54	-9.07	peak
7236	39.26	10.76	50.02	54	-3.98	peak
9648	33.43	14.37	47.80	54	-6.20	peak
00.10	00.10		17.00	0.	0.20	podit
Mode:a; Pol	arization:\	/ertical; M	odulation:n; b	andwidth:	20MHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.33	6.40	48.73	54	-5.27	peak
7236	34.35	10.76	45.11	54	-8.89	peak
9648	35.31	14.37	49.68	54	-4.32	peak
Mode:a; Pol	arization:F		Modulation:n	; bandwid	th:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	42.67	6.92	49.59	54	-4.41	peak
7311	38.48	11.08	49.56	54	-4.44	peak
9748	33.50	14.36	47.86	54	-6.14	peak
Madaja: Dal	orizotion:\	/ortical: M	odulation:n: h	ondwidth:	20MH C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
						n a a l
4874	38.63	6.92	45.55	54	-8.45	peak
7311	35.36	11.08	46.44	54	-7.56	peak
9748	35.92	14.36	50.28	54	-3.72	peak
Mode:a: Pol	arization:F	Horizontal:	Modulation:n	: bandwid	th:20MHz:	Channel:High
			Emission			_
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	41.17	7.31	48.48	54	-5.52	peak
7386	37.63	11.41	49.04	54	-4.96	peak
9848	35.71	14.38	50.09	54	-3.91	peak
			odulation:n; b			•
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.25	7.31	49.56	54	-4.44	peak
7386	39.66	11.41	51.07	54	-2.93	peak
9848	32.77	14.38	47.15	54	-6.85	peak



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Mode:a; I	Polarization:He	orizontal;	Modulation:r	n; bandwidt	h:40MHz;	Channel:Low
Frequenc	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	40.19	6.60	46.79	54	-7.21	peak
7266	38.95	10.89	49.84	54	-4.16	peak
9688	35.06	14.35	49.41	54	-4.59	peak
Mode:a; I	Polarization:Ve	ertical; M	odulation:n;	bandwidth:4	I0MHz; CI	hannel:Low
Frequenc	y RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	38.39	6.60	44.99	54	-9.01	peak
7266	38.99	10.89	49.88	54	-4.12	peak
9688	34.67	14.35	49.02	54	-4.98	peak
Mode:a: I	Polarization:H	orizontal:	Modulation:r	n: bandwidt	h:40MHz:	Channel:middle
Frequenc		Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.79	6.92	46.71	54	-7.29	peak
7311	36.51	11.08	47.59	54	-6.41	peak
9748	34.38	14.36	48.74	54	-5.26	peak
Mode:a; I	Polarization:Ve	ertical; M	odulation:n; l	bandwidth:4	IOMHz; CI	hannel:middle
Frequenc		Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.89	6.92	47.81	54	-6.19	peak
7311	39.54	11.08	50.62	54	-3.38	peak
9748	34.64	14.36	49.00	54	-5.00	peak
Mode:a: I	Polarization:H	orizontal:	Modulation:r	n: bandwidt	h:40MHz:	Channel:High
	y RX_R					•
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	39.84	7.22	47.06	54	-6.94	peak
7356	34.90	11.28	46.18	54	-7.82	peak
9808	36.60	14.37	50.97	54	-3.03	peak
Mode:a; I	Polarization:Ve	ertical; M	odulation:n; l	bandwidth:4	IOMHz; CI	hannel:High
Frequenc		Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	42.04	7.22	49.26	54	-4.74	peak
	42.04	1.22	70.20	0 1		pour
7356	36.37	11.28	47.65	54	-6.35	peak
7356 9808						-



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Mode:c; Pol	arization:H	lorizontal;	Modulation:b	; bandwid	th:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.05	6.40	49.45	54	-4.55	peak
7236	39.80	10.76	50.56	54	-3.44	peak
9648	36.20	14.37	50.57	54	-3.43	peak
Madaya, Dal	o wi = o ti o m . \ /	autical M	- d l - t h h	و حلفات المحدد	20MH I-: Ch	annald au
			odulation:b; k			
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.79	6.40	49.19	54	-4.81	peak
7236	39.37	10.76	50.13	54	-3.87	peak
9648	32.30	14.37	46.67	54	-7.33	peak
Mode:c: Pol	arization:H	lorizontal:	Modulation:b	: bandwid	th: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	38.56	11.08	49.64	54	-4.36	peak
9748	35.90	14.36	50.26	54	-3.74	peak
9740	33.90	14.30	50.20	54	-3.74	peak
Mode:c; Pol	arization:V	ertical; M	odulation:b; k	andwidth:	20MHz; Ch	nannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	41.44	6.92	48.36	54	-5.64	peak
7311	36.96	11.08	48.04	54	-5.96	peak
9748	36.84	14.36	51.20	54	-2.80	peak
						Channel:High
			Emission			Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	40.08	7.31	47.39	54	-6.61	peak
7386	34.50	11.41	45.91	54	-8.09	peak
9848	35.00	14.38	49.38	54	-4.62	peak
Moderc: Pol	arization:V	ertical: M	odulation:b; k	andwidth:	20MHz· Ch	nannel·High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	· ·
4924	39.85	7.31	47.16	54	-6.84	peak
7386	38.81	11.41	50.22	54	-3.78	peak
	34.53	14.38	48.91	54 54	-5.76 -5.09	peak peak
9848	34 7 3	1/1 58	45 91	2/1		



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Mode:c; Pol	arization:F	lorizontal;	Modulation:g	g; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.89	6.40	49.29	54	-4.71	peak
7236	36.35	10.76	47.11	54	-6.89	peak
9648	35.79	14.37	50.16	54	-3.84	peak
Mada - Dal		/	a de la Cara de la	la a de Calde d	2014	h 1 1
•		rerticai; ivi Factor	odulation:g;	bandwidtn:2 Limit		
Frequency	RX_R				Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.83	6.40	50.23	54	-3.77	peak
7236	38.46	10.76	49.22	54	-4.78	peak
9648	35.74	14.37	50.11	54	-3.89	peak
Mode:c; Pol	arization:F	lorizontal;	Modulation:	g; bandwidt	h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.87	6.92	45.79	54	-8.21	peak
7311	36.91	11.08	47.99	54	-6.01	peak
9748	33.20	14.36	47.56	54	-6.44	peak
Modoro: Pol	arization:\	/ortical: M	odulation:a:	handwidth:	00MH CI	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
4874	38.92	6.92	45.84	54	-8.16	peak
						•
7311	37.29	11.08	48.37	54	-5.63	peak
9748	35.25	14.36	49.61	54	-4.39	peak
Mode:c; Pol	arization:F	lorizontal;	Modulation:g	g; bandwidt	h:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	40.91	7.31	48.22	54	-5.78	peak
7386	38.31	11.41	49.72	54	-4.28	peak
9848	36.35	14.38	50.73	54	-3.27	peak
Moderc: Pol	arization:\/	/ertical: M	odulation:g;	handwidth:2	OMHz: CI	hannel·High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.82	7.31	50.13	54	-3.87	peak
				υT	0.07	pour
7326						-
7386 9848	37.93 36.73	11.41 14.38	49.34 51.11	54 54	-4.66 -2.89	peak peak



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Mode:c; Pol	arization:H	Horizontal;	Modulation:n	ı; bandwid	th:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.58	6.40	49.98	54	-4.02	peak
7236	35.14	10.76	45.90	54	-8.10	peak
9648	33.07	14.37	47.44	54	-6.56	peak
Mode:c: Pol	arization:\	/ertical: M	odulation:n; I	oandwidth:	20MHz: C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.62	6.40	49.02	54	-4.98	peak
7236	40.78	10.76	51.54	54	-2.46	peak
9648	34.30	14.37	48.67	54	-5.33	peak
						Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.48	6.92	46.40	54	-7.60	peak
7311	36.36	11.08	47.44	54	-6.56	peak
9748	35.53	14.36	49.89	54	-4.11	peak
Mode:c; Pol	arization:\	/ertical; M	odulation:n; I	oandwidth:2	20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.12	6.92	47.04	54	-6.96	peak
7311	37.11	11.08	48.19	54	-5.81	peak
9748	34.45	14.36	48.81	54	-5.19	peak
Madaja: Dak	orizotion:L	Jorizontol:	Madulation	· boodwid	+b-201/14	Channel:High
		-	Emission	-	-	•
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
4924	43.75	7.31	51.06	54	-2.94	peak
7386	36.99	11.41	48.40	54	-5.60	peak
9848	32.44	14.38	46.82	54	-3.00 -7.18	peak
3040	32.44	14.30	40.02	34	-7.10	peak
Mode:c; Pola	arization:\	/ertical; M	odulation:n; I	candwidth:	20MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	40.14	7.31	47.45	54	-6.55	peak
7386	37.12	11.41	48.53	54	-5.47	peak
9848	33.54	14.38	47.92	54	-6.08	peak



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Mode:c; Pol	arization:H	lorizontal;	Modulation:r	n; bandwidt	h:40MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	38.88	6.60	45.48	54	-8.52	peak
7266	38.49	10.89	49.38	54	-4.62	peak
9688	33.20	14.35	47.55	54	-6.45	peak
Madasa Dal	- uiti\	lautiaal. M		و ماهام د العام الم	10MH 0	h = = = =
Mode:c; Pol	arization:v RX_R	Factor	Emission	Dandwidtn:2	юмнz; С Margin	nannei:Low Detector
Frequency MHz				dBuV/m	•	Detector
	dBuV	dB	dBuV/m		dB	1
4844	38.80	6.60	45.40	54	-8.60	peak
7266	35.23	10.89	46.12	54	-7.88	peak
9688	31.09	14.35	45.44	54	-8.56	peak
Mode:c: Pol	arization:F	lorizontal:	Modulation:r	n: bandwidt	h:40MHz:	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.86	6.92	45.78	54	-8.22	peak
7311	38.00	11.08	49.08	54	-4.92	peak
9748	33.07	14.36	47.43	54	-6.57	peak
37 40	00.07	14.00	47.40	04	0.07	pour
Mode:c; Pol	arization:V	ertical; M	odulation:n;	bandwidth:4	IOMHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.71	6.92	50.63	54	-3.37	peak
7311	34.28	11.08	45.36	54	-8.64	peak
9748	33.04	14.36	47.40	54	-6.60	peak
						Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	41.14	7.22	48.36	54	-5.64	peak
7356			.0.00	07	-5.04	•
0000	34.41	11.28	45.69	54	-8.31	peak
9808	34.41 35.65	11.28 14.37				•
9808 Mode:c; Pol	35.65	14.37	45.69 50.02	54 54	-8.31 -3.98	peak peak
	35.65	14.37	45.69 50.02	54 54	-8.31 -3.98	peak peak
Mode:c; Pol	35.65 arization:V	14.37 'ertical; M	45.69 50.02 odulation:n;	54 54 bandwidth:4	-8.31 -3.98 IOMHz; C	peak peak hannel:High
Mode:c; Pol Frequency	35.65 arization:V RX_R	14.37 'ertical; M Factor	45.69 50.02 odulation:n; Emission	54 54 bandwidth:4 Limit	-8.31 -3.98 IOMHz; Cl Margin	peak peak hannel:High
Mode:c; Pol Frequency MHz	35.65 arization:V RX_R dBuV	14.37 'ertical; M Factor dB	45.69 50.02 odulation:n; Emission dBuV/m	54 54 bandwidth:4 Limit dBuV/m	-8.31 -3.98 I0MHz; Cl Margin dB	peak peak hannel:High Detector
Mode:c; Pol Frequency MHz 4904	35.65 arization:V RX_R dBuV 42.99	14.37 'ertical; M Factor dB 7.22	45.69 50.02 odulation:n; Emission dBuV/m 50.21	54 54 bandwidth:4 Limit dBuV/m 54	-8.31 -3.98 40MHz; Cl Margin dB -3.79	peak peak hannel:High Detector 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 -