

TEST REPORT

Application No.: SHEM2001000458CR
FCC ID: 2ADTD-AEF6
Applicant: Hangzhou Hikvision Digital Technology Co.,Ltd.
Address of Applicant: No. 555, Qianmo Road, Binjiang District, Hangzhou
Manufacturer: Hangzhou Hikvision Digital Technology Co.,Ltd.
Address of Manufacturer: No. 555, Qianmo Road, Binjiang District, Hangzhou
Factory:
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2. Hangzhou Hikvision Electronics Co., Ltd.
3. Hangzhou Hikvision Digital Technology Co., Ltd.
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2. No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 310052, China.
3. No. 555 Qianmo Road, Binjiang District, Hangzhou 310052, China

Equipment Under Test (EUT):

EUT Name: Dashcam

Model No.: AE-DC5013-F6,AE-DC5113-F6S,AE-DC5013-F6 Pro,AE-DC5013-F6+,
AE-DC5113-F6S Pro,AE-DC5113-F6S+¤

- 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: 2020-01-20

Date of Test: 2020-02-24 to 2020-03-03

Date of Issue: 2020-03-07

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

parlour 2hau

Parlam Zhan
E&F Section Manager

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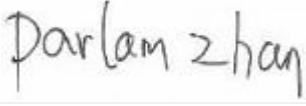
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Revision Record			
Version	Description	Date	Remark
00	Original	2020-03-07	/

Authorized for issue by:			
		<hr/> Micheal Niu / Project Engineer	
		<hr/> Parlam Zhan/ Reviewer	

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(b)(4)	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 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:

There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model AE-DC5013-F6 was tested since their differences were the model number and appearance.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12~24V by Car Charger
Car Charger:	Model:TC17C-0503100D
INPUT:	DC12~24V
OUTPUT:	DC 5V 2.1A & 1A
Test voltage:	DC 12V
Antenna Gain:	2.42 dBi
Antenna Type:	Integral 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

4.1 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
1	46	57	57
6	46	57	57
11	46	57	57
Channel	802.11n(HT40)		
3	52		
6	52		
9	52		

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 8.4 \times 10^{-8}$
2	Timeout	$\pm 2s$
3	Duty cycle	$\pm 0.37\%$
4	Occupied Bandwidth	$\pm 3\%$
5	RF conducted power	$\pm 0.6\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 4.6\text{dB}$ (Below 1GHz) $\pm 4.1\text{dB}$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.2\text{dB}$ (Below 30MHz) $\pm 4.4\text{dB}$ (30MHz-1GHz) $\pm 4.8\text{dB}$ (1GHz-18GHz) $\pm 5.2\text{dB}$ (Above 18GHz)
10	Temperature test	$\pm 1^\circ\text{C}$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$

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

4.4 Test Location

All tests were performed at:

All measurement facilities used to collect the measurement data are located at
No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

No tests were sub-contracted.

4.5 Test Facility

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

- CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017
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.

- A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for
Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- FCC –Designation Number: CN1172**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172. Test Firm Registration Number: 995260.

- Industry Canada (IC) – IC Assigned Code: 2324E**

The 10m and 3m Semi-anechoic chamber of Compliance Certification Services (Kunshan) Inc. has
been registered by Certification and Engineering Bureau of Industry Canada for radio equipment
testing with Registration No.: 2324E-1 for 10m chamber, 2324E-2 for 3m chamber.

- VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services
(Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control
Measures with Registration No.: R-1600, C-1707, T-1499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
RF Conducted Test					
Spectrum Analyzer	Agilent	E4446A	MY44020154	07/03/2019	07/02/2020
Spectrum Analyzer	Keysight	N9020A	MY55370209	12/19/2019	12/18/2020
Signal Generator	Agilent	E8257C	MY43321570	10/24/2019	10/23/2020
Vector Signal Generator	R&S	SMU 200A	102744	02/24/2020	02/23/2021
Universal Radio Communication Tester	R&S	CMU200	109525	12/19/2019	12/18/2020
Universal Radio Communication Tester	R&S	CMW500	159275	12/19/2019	12/18/2020
Power Meter	Anritsu	ML2495A	1445010	04/22/2019	04/21/2020
Switcher	CCSRF	FY562	KS301219	12/20/2019	12/19/2020
AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
DC Power Supply	Agilent	E3632A	MY50340053	N.C.R	N.C.R
6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
Conducted test cable	/	RF01-RF04	/	04/22/2019	04/21/2020
Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/22/2019	04/21/2020
RF Radiated Test					
Spectrum Analyzer	R&S	FSV40	101493	01/08/2020	01/07/2021
Signal Generator	Agilent	E8257C	MY43321570	10/24/2019	10/23/2020
Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/24/2020	02/23/2021
Bilog Antenna	TESEQ	CBL 6112D	35403	06/22/2019	06/21/2020
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/29/2019	04/28/2021
Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	11/04/2018	11/03/2020
Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/24/2020	02/23/2021
Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/27/2018	02/26/2021
Pre-Amplifier(30MHz~18GHz)	CCSRF	AMP1277	1	12/19/2019	12/18/2020
Pre-Amplifier(0.1~26.5GHz)	EMCI	EMC012645	980060	07/03/2019	07/02/2020
Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
Filter (1922 MHz~1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
RE test cable	/	RE01-RE04	/	04/22/2019	04/21/2020

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

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 Integral Antenna and no consideration of replacement. The best case gain of the antenna is 2.42dBi.

Antenna location: Refer to Appendix (Internal Photos)

7 Radio Spectrum Matter Test Results

7.1.1 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark:

1. LISN=Read Level+ Cable Loss+ LISN Factor
2. This test item was investigated while operating in each channel mode, however, it was determined that channel 11 operation for b modulation produced the worst conducted emissions. So the conducted emissions produced from other operation are not report.

7.2 Minimum 6dB Bandwidth

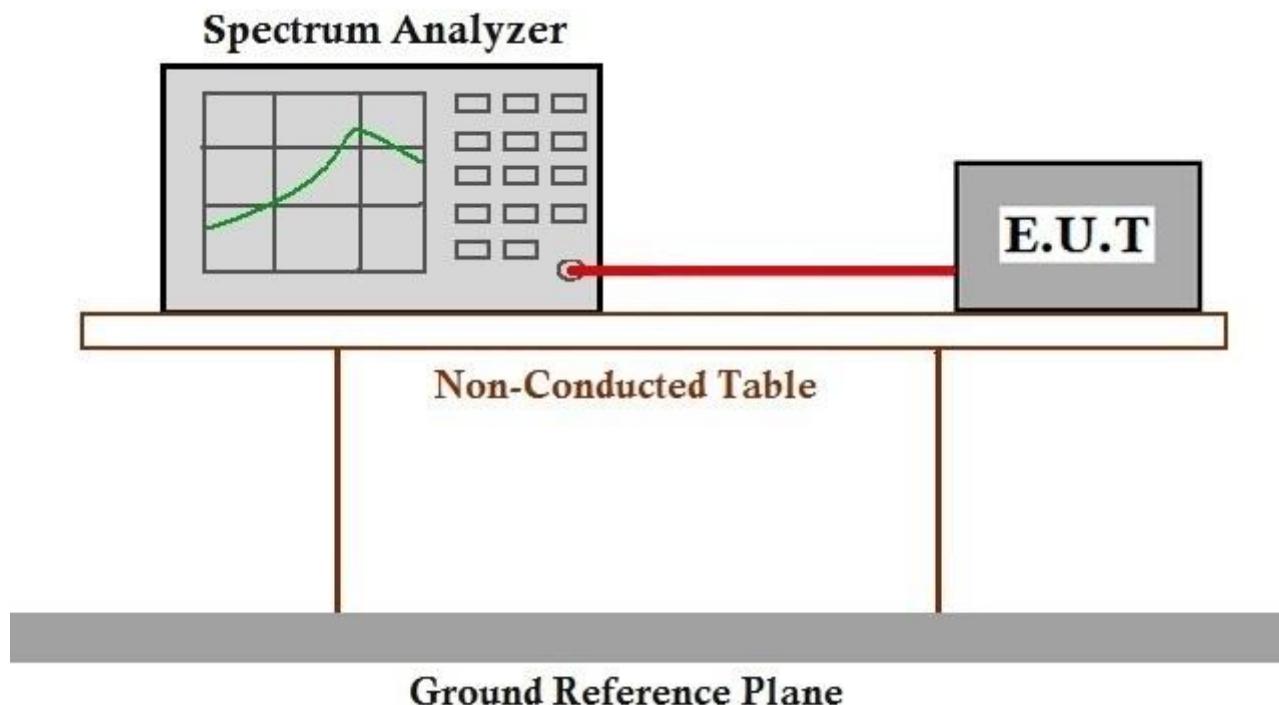
Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1
Limit: ≥ 500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 45 % RH Atmospheric Pressure: 1001 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



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEMA200100045801

7.3 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)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

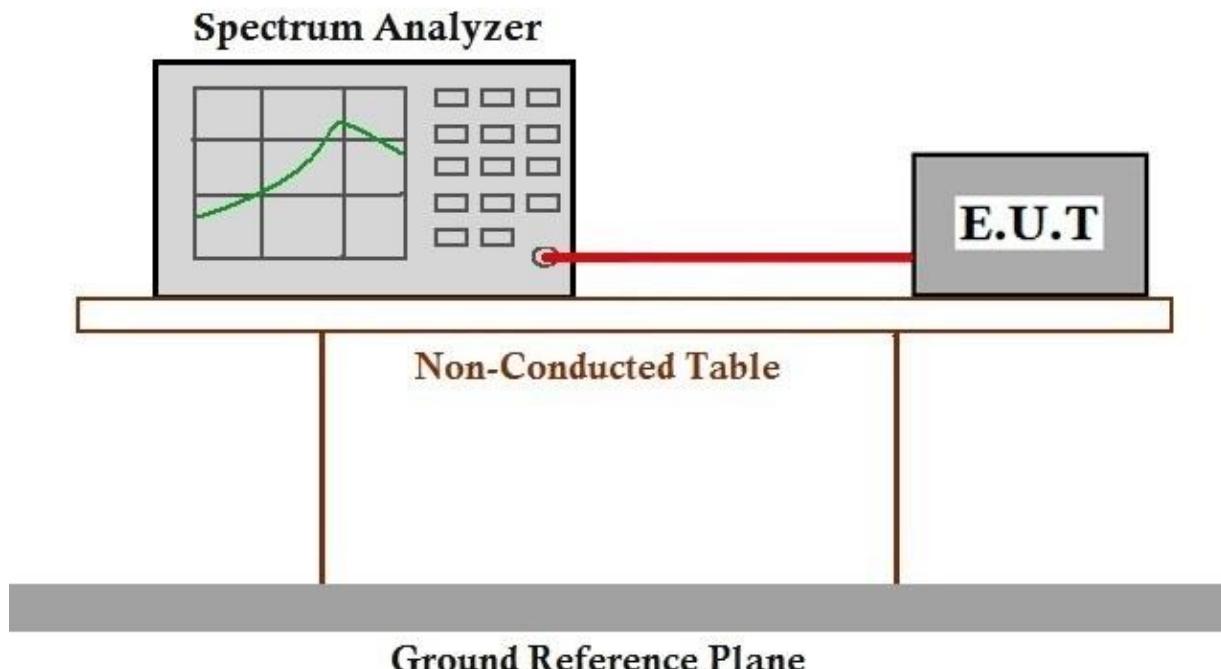
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 45 % RH Atmospheric Pressure: 1001 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



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM200100045801

7.4 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: $\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

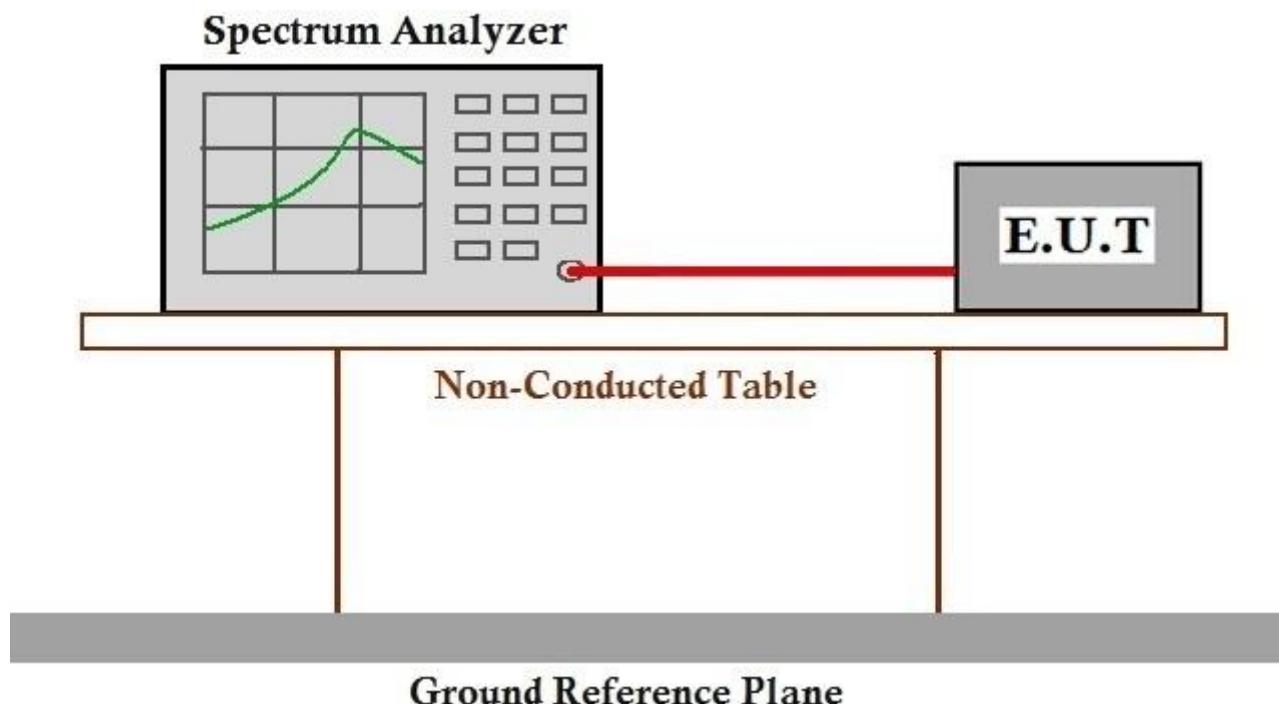
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 45 % RH Atmospheric Pressure: 1001 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



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEMA200100045801

7.5 Conducted Band Edges Measurement

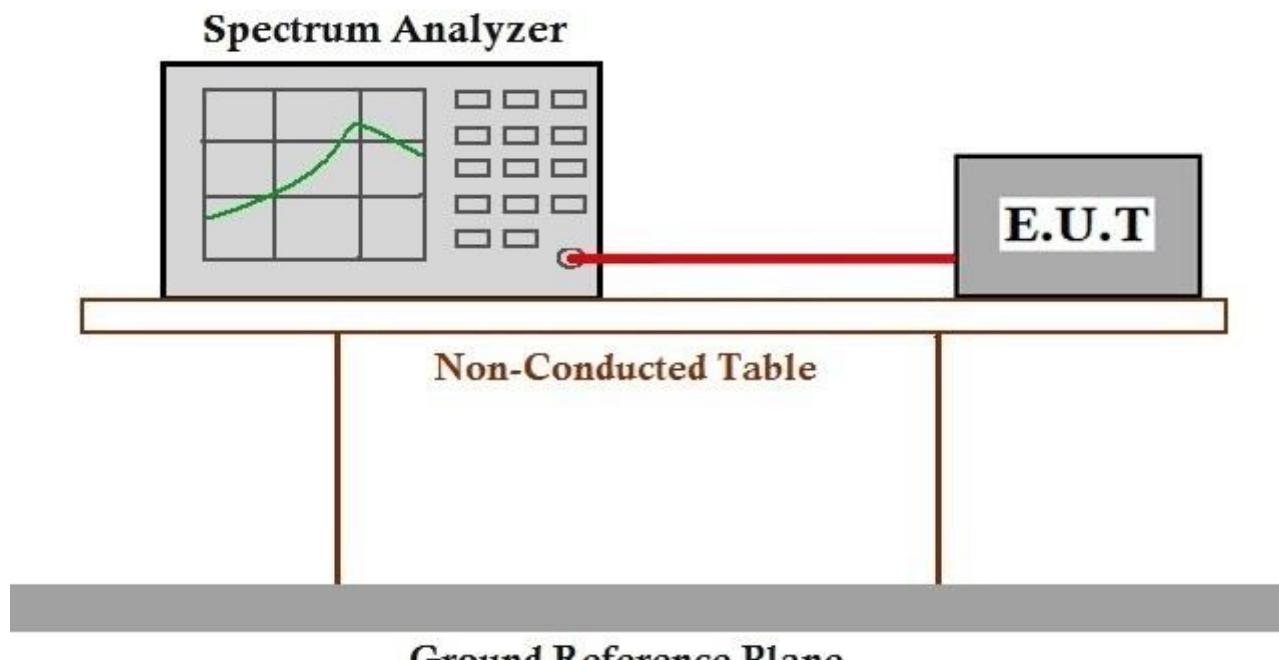
Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2
Limit: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional 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))

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 45 % RH Atmospheric Pressure: 1001 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



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM200100045801

7.6 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)

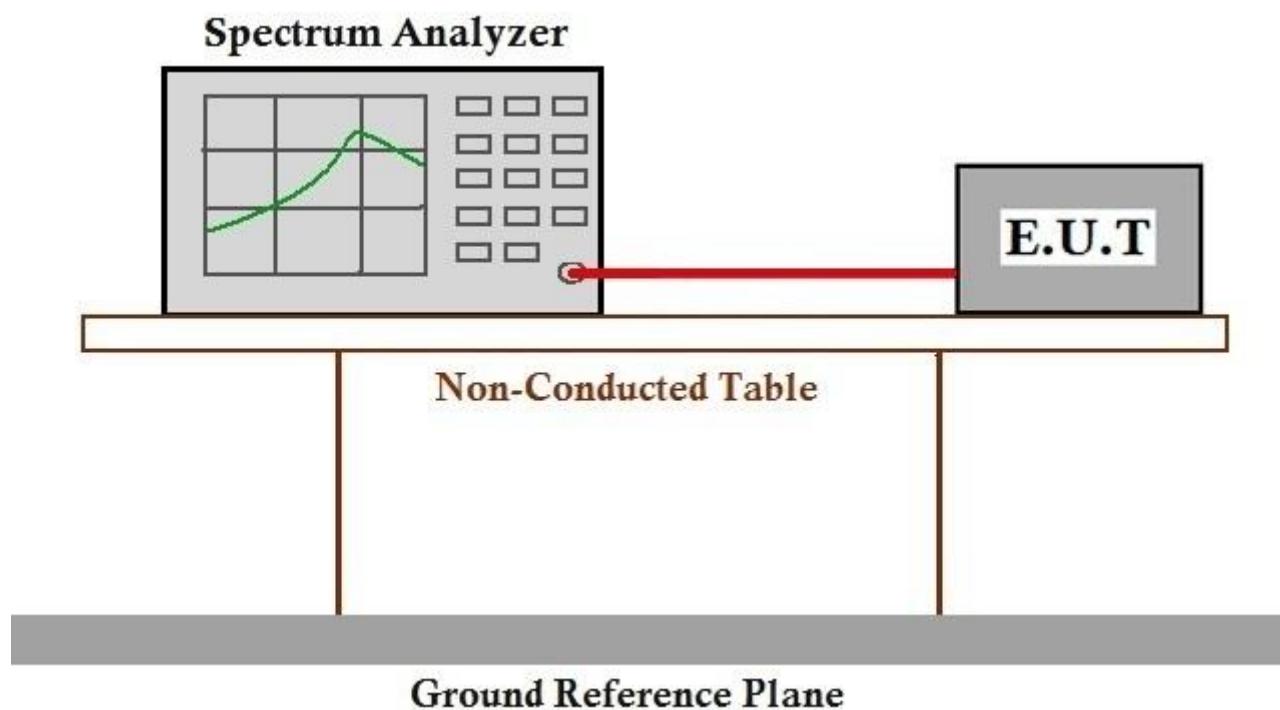
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 45 % RH Atmospheric Pressure: 1001 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



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHEM200100045801

7.7 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

Measurement Distance: 3m

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.

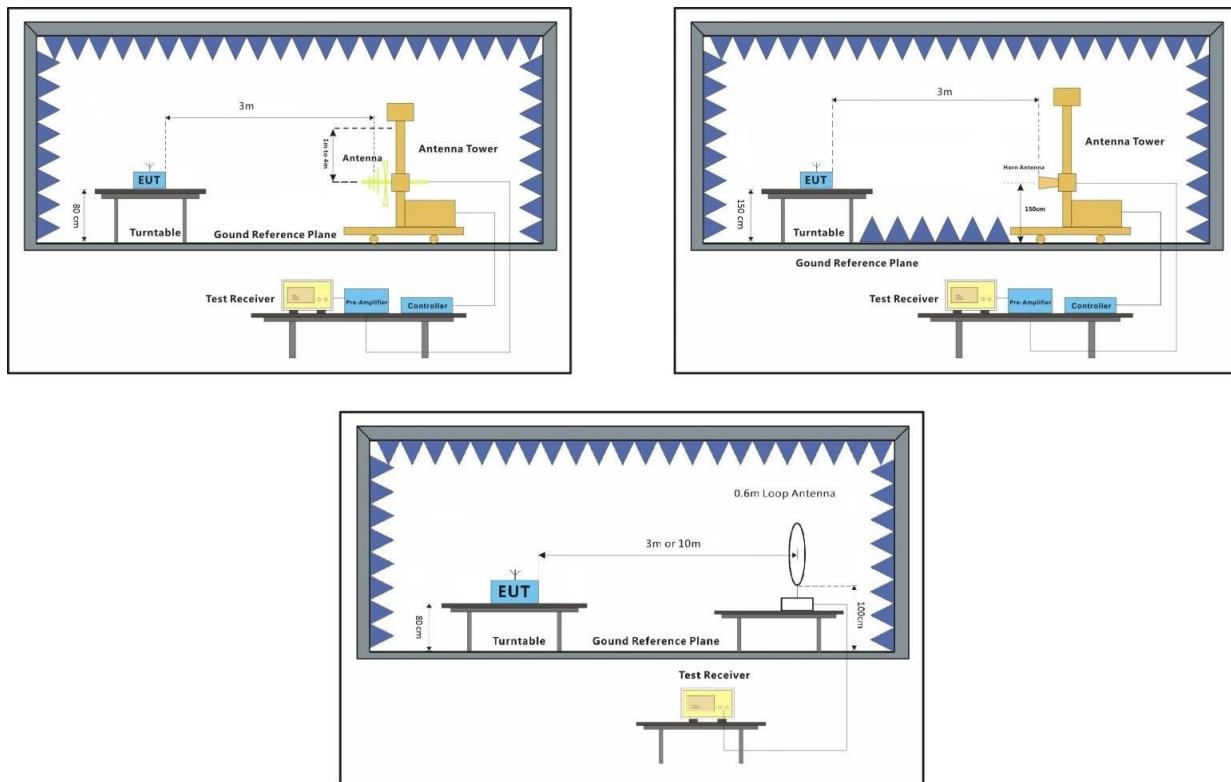
7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 45 % RH Atmospheric Pressure: 1001 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



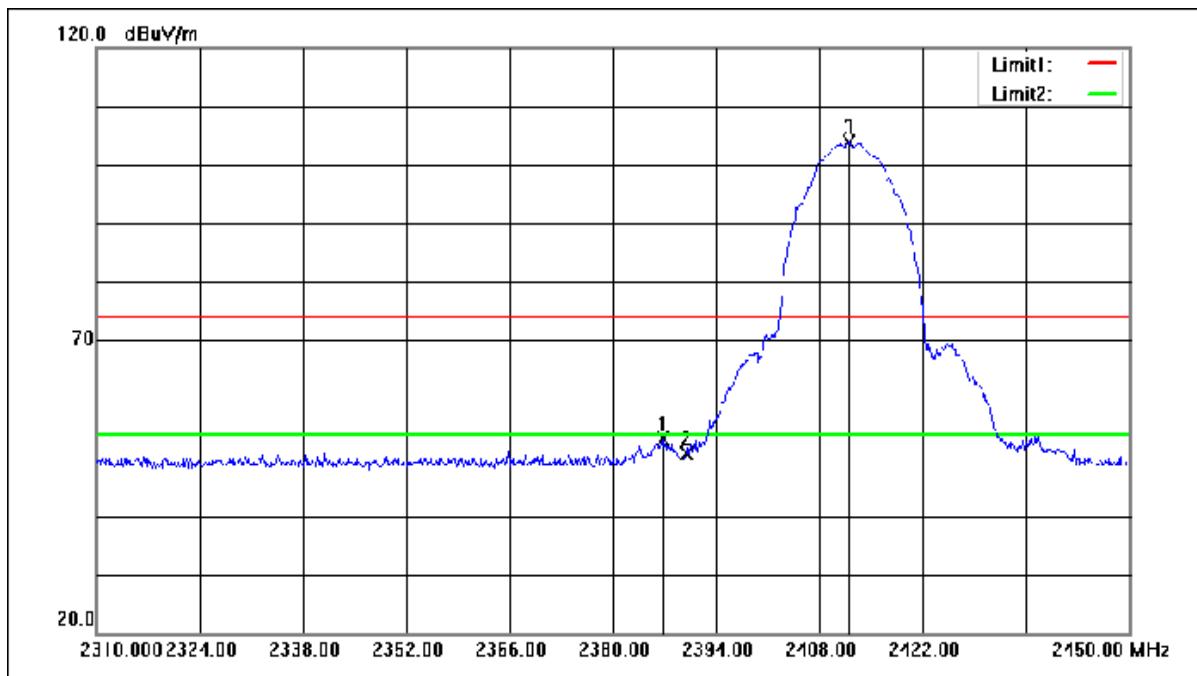
7.7.3 Measurement Procedure and Data

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

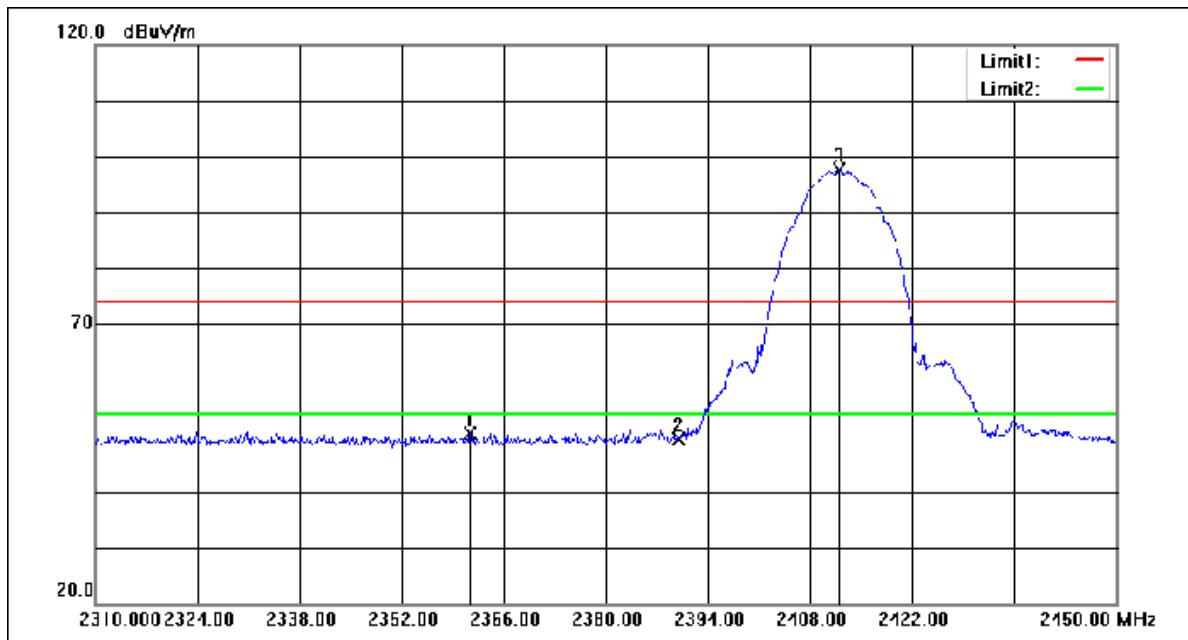
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

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



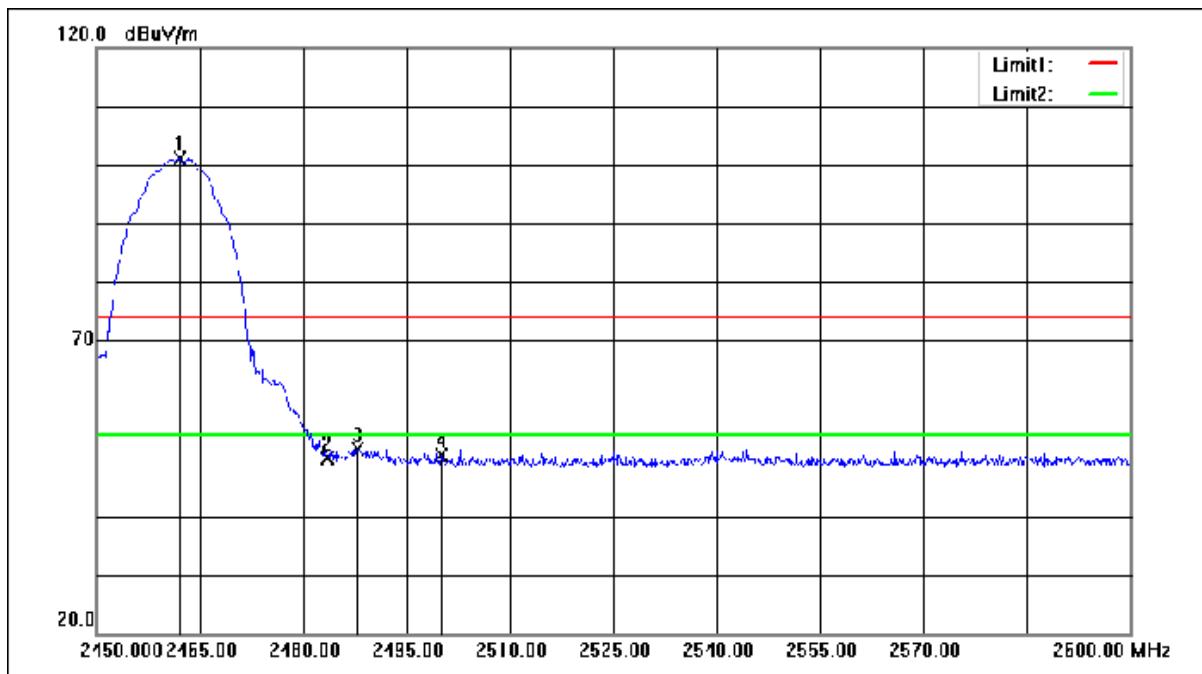
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.790	57.31	-4.25	53.06	74.00	-20.94	peak
2	2390.000	54.75	-4.24	50.51	74.00	-23.49	peak
3	2412.060	107.99	-4.19	103.80	74.00	29.80	peak

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



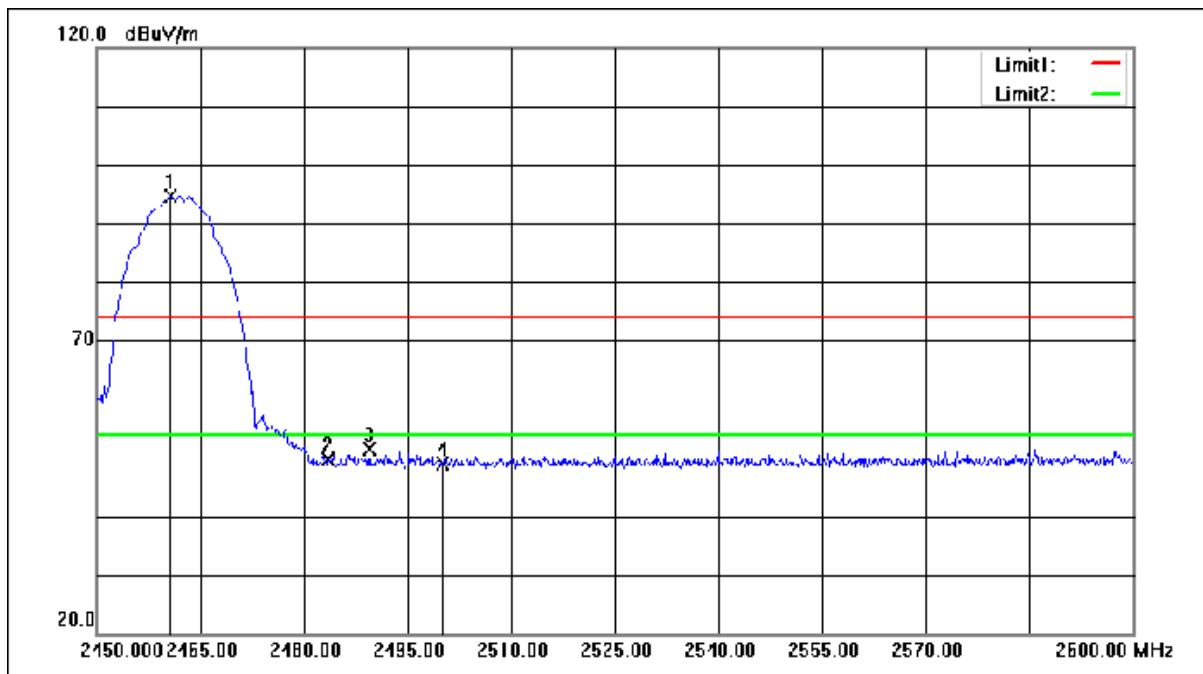
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2361.450	54.82	-4.32	50.50	74.00	-23.50	peak
2	2390.000	53.53	-4.24	49.29	74.00	-24.71	peak
3	2412.060	101.76	-4.19	97.57	74.00	23.57	peak

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



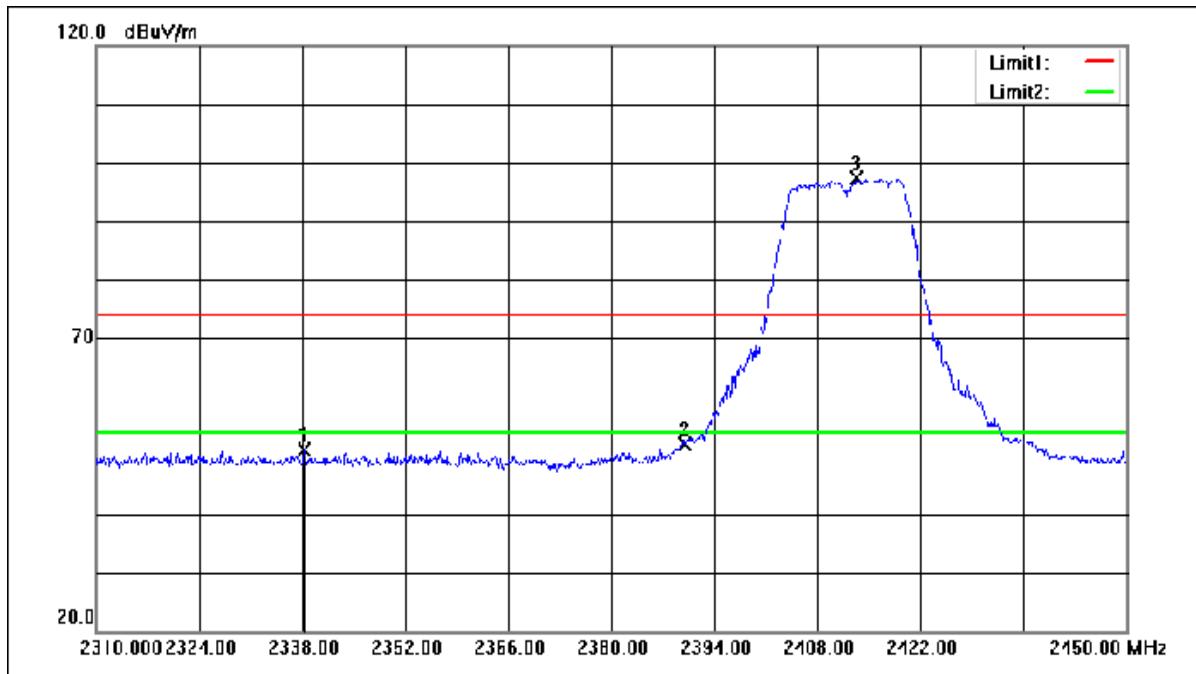
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.000	105.17	-4.06	101.11	74.00	27.11	peak
2	2483.500	53.94	-4.00	49.94	74.00	-24.06	peak
3	2488.025	55.41	-3.99	51.42	74.00	-22.58	peak
4	2500.000	54.27	-3.96	50.31	74.00	-23.69	peak

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



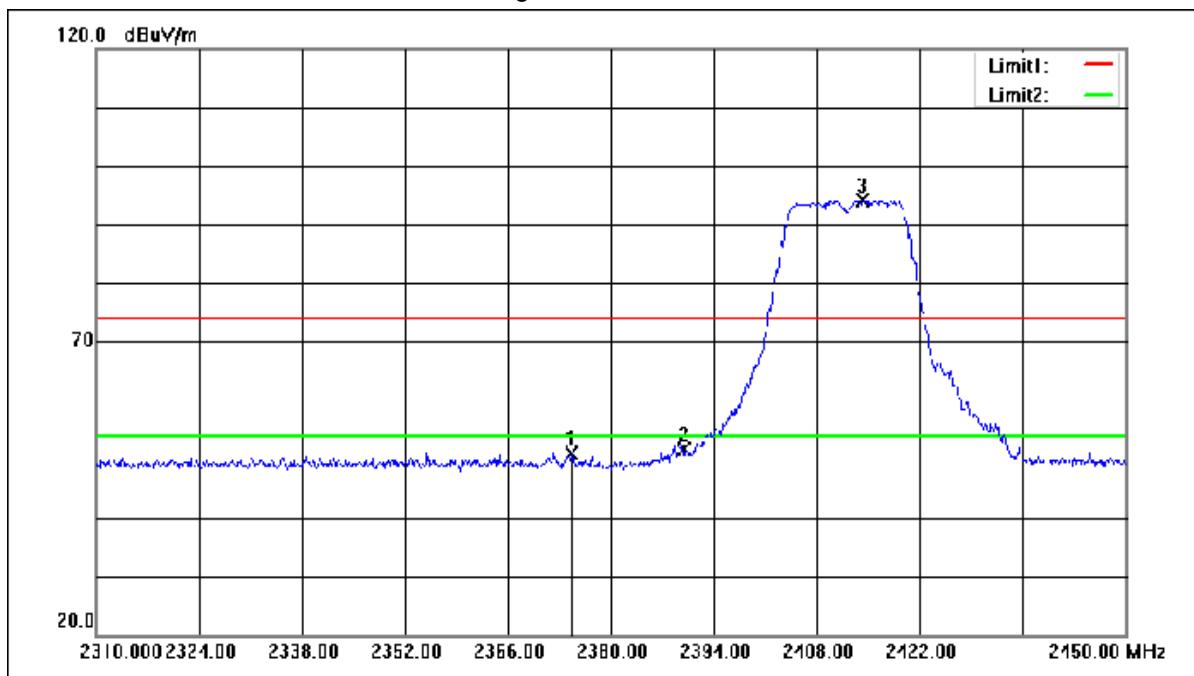
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.725	98.68	-4.06	94.62	74.00	20.62	peak
2	2483.500	53.58	-4.00	49.58	74.00	-24.42	peak
3	2489.450	55.26	-3.99	51.27	74.00	-22.73	peak
4	2500.000	52.90	-3.96	48.94	74.00	-25.06	peak

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



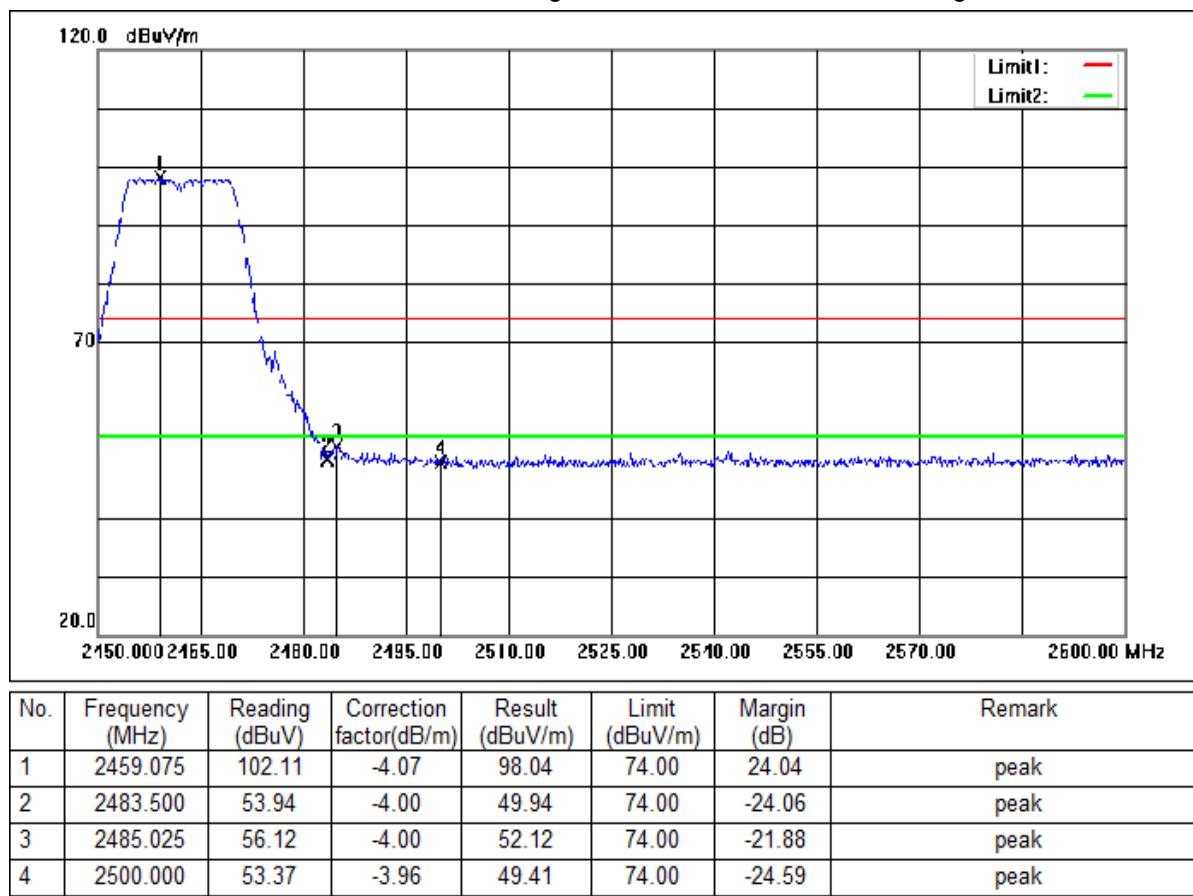
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2338.350	55.15	-4.38	50.77	74.00	-23.23	peak
2	2390.000	56.03	-4.24	51.79	74.00	-22.21	peak
3	2413.390	101.60	-4.18	97.42	74.00	23.42	peak

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

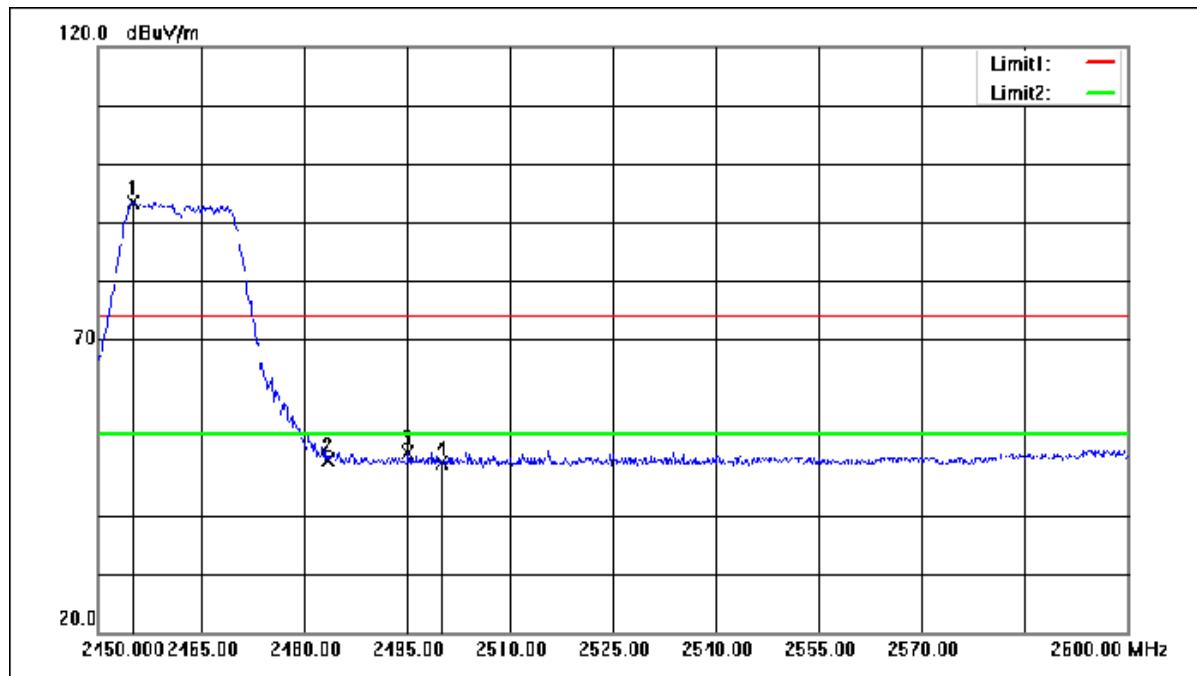


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2374.680	55.15	-4.28	50.87	74.00	-23.13	peak
2	2390.000	55.91	-4.24	51.67	74.00	-22.33	peak
3	2414.300	98.28	-4.18	94.10	74.00	20.10	peak

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

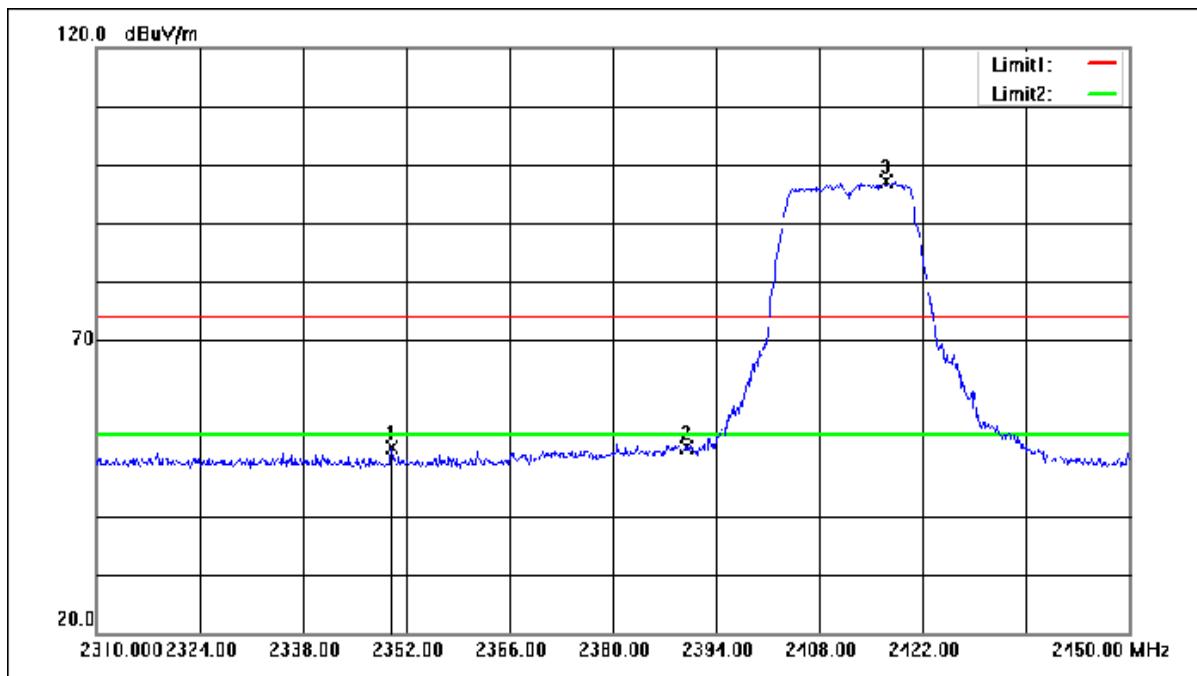


Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



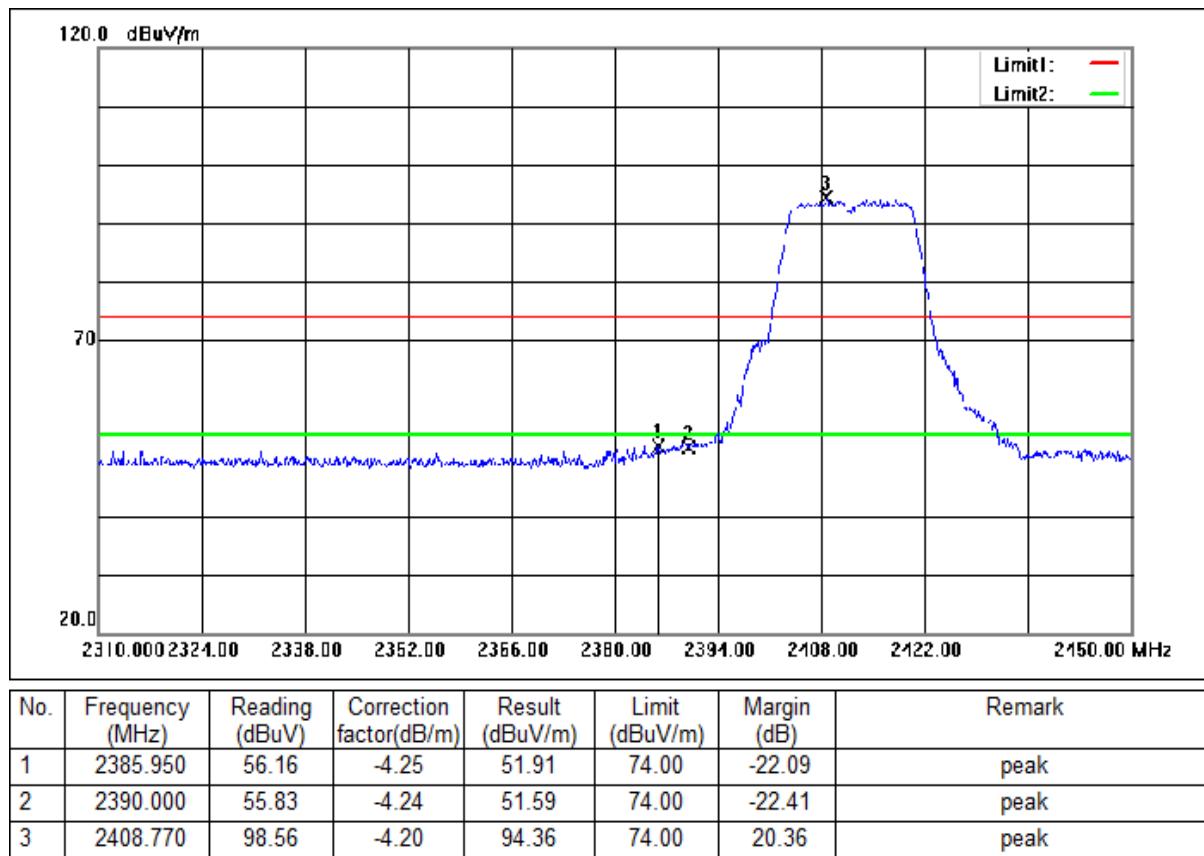
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2455.175	97.48	-4.08	93.40	74.00	19.40	peak
2	2483.500	53.35	-4.00	49.35	74.00	-24.65	peak
3	2495.150	54.62	-3.97	50.65	74.00	-23.35	peak
4	2500.000	52.93	-3.96	48.97	74.00	-25.03	peak

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

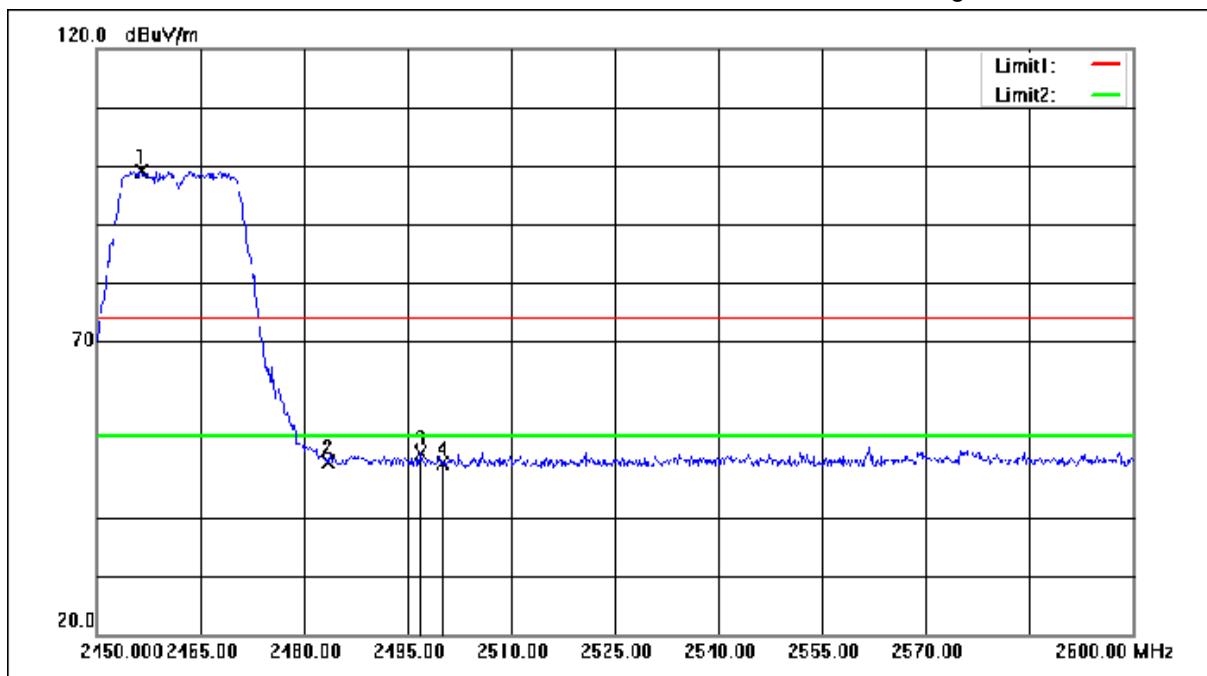


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2350.110	56.00	-4.35	51.65	74.00	-22.35	peak
2	2390.000	55.96	-4.24	51.72	74.00	-22.28	peak
3	2416.960	101.26	-4.17	97.09	74.00	23.09	peak

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

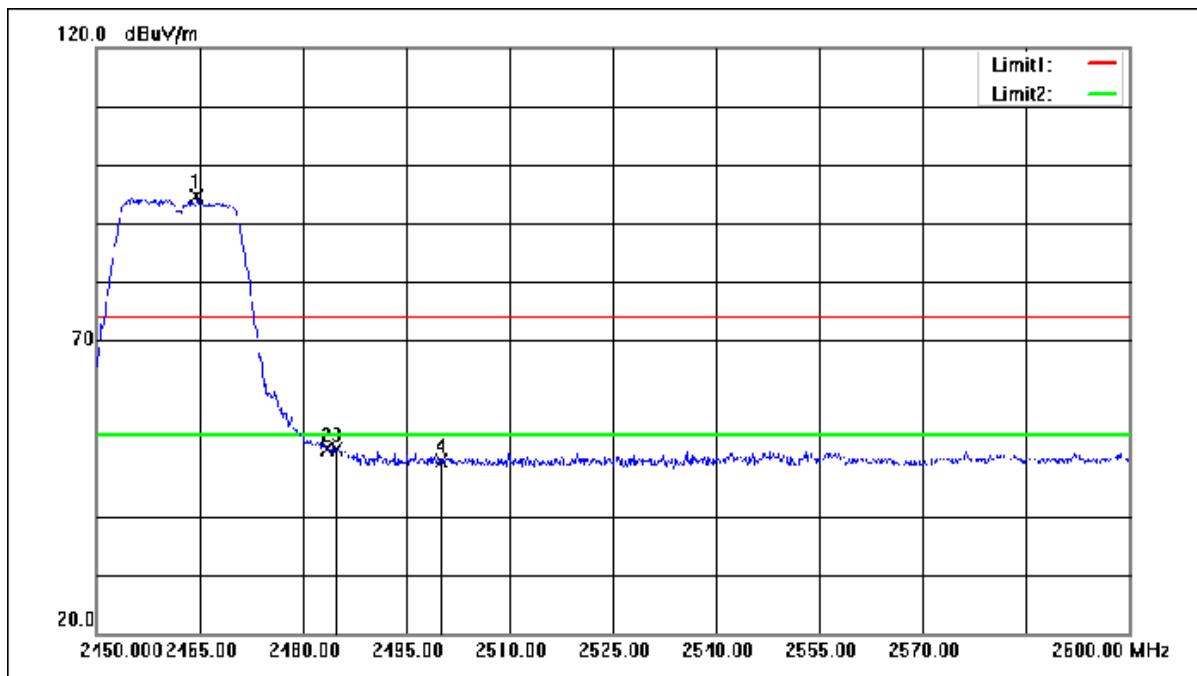


Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



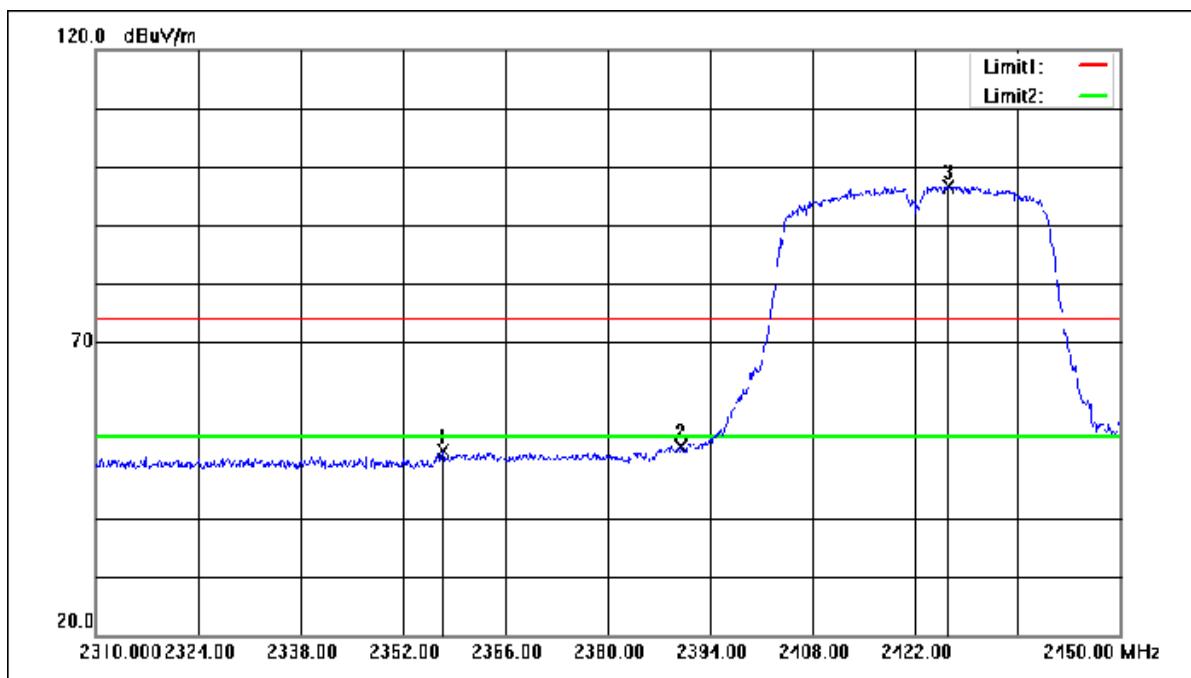
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.450	103.28	-4.07	99.21	74.00	25.21	peak
2	2483.500	53.28	-4.00	49.28	74.00	-24.72	peak
3	2497.025	54.93	-3.97	50.96	74.00	-23.04	peak
4	2500.000	53.10	-3.96	49.14	74.00	-24.86	peak

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



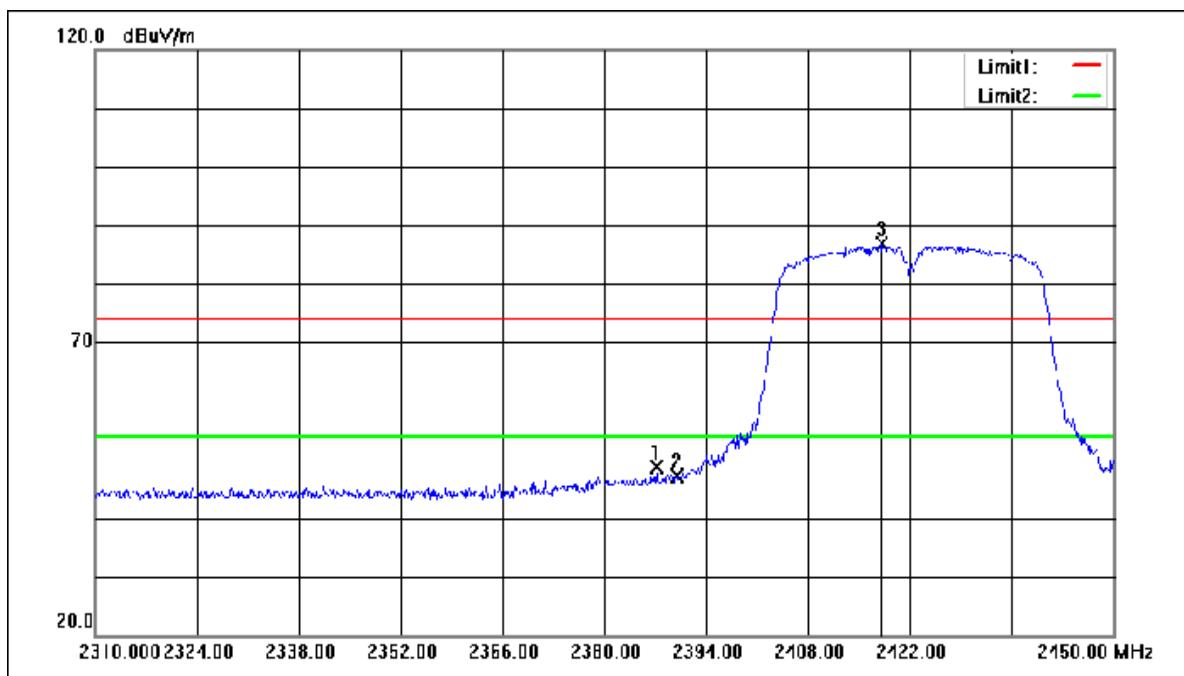
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.625	98.68	-4.05	94.63	74.00	20.63	peak
2	2483.500	55.49	-4.00	51.49	74.00	-22.51	peak
3	2484.875	55.45	-4.00	51.45	74.00	-22.55	peak
4	2500.000	53.36	-3.96	49.40	74.00	-24.60	peak

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



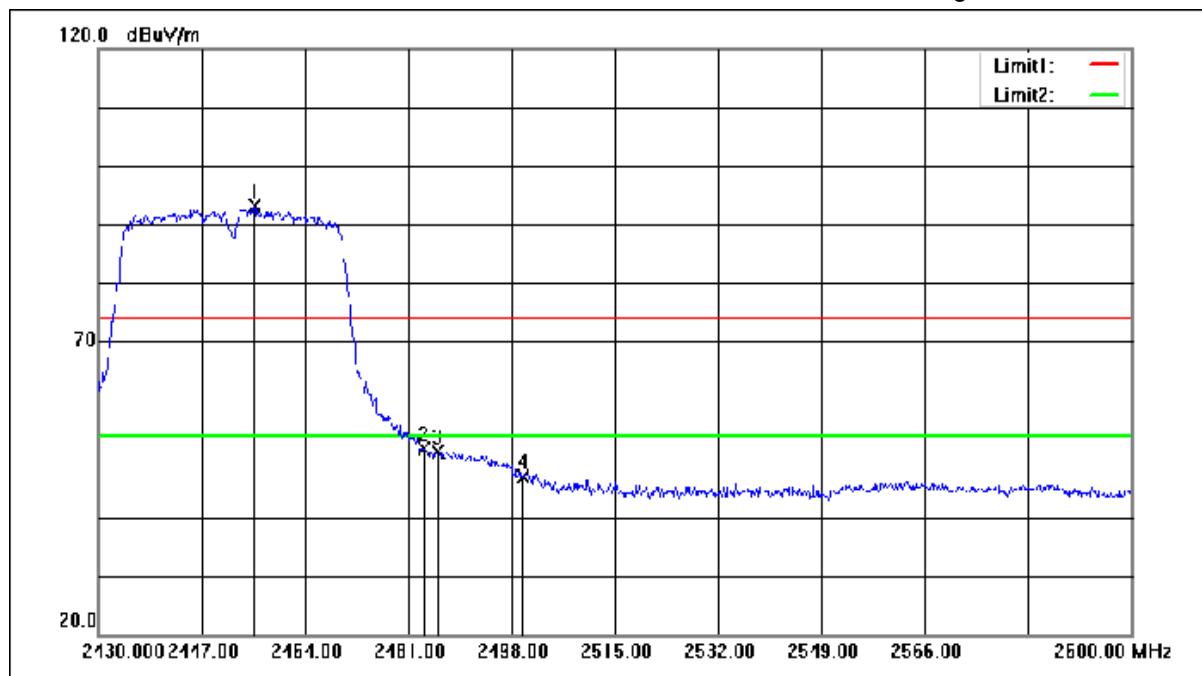
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2357.460	55.82	-4.33	51.49	74.00	-22.51	peak
2	2390.000	56.38	-4.24	52.14	74.00	-21.86	peak
3	2426.480	100.82	-4.15	96.67	74.00	22.67	peak

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



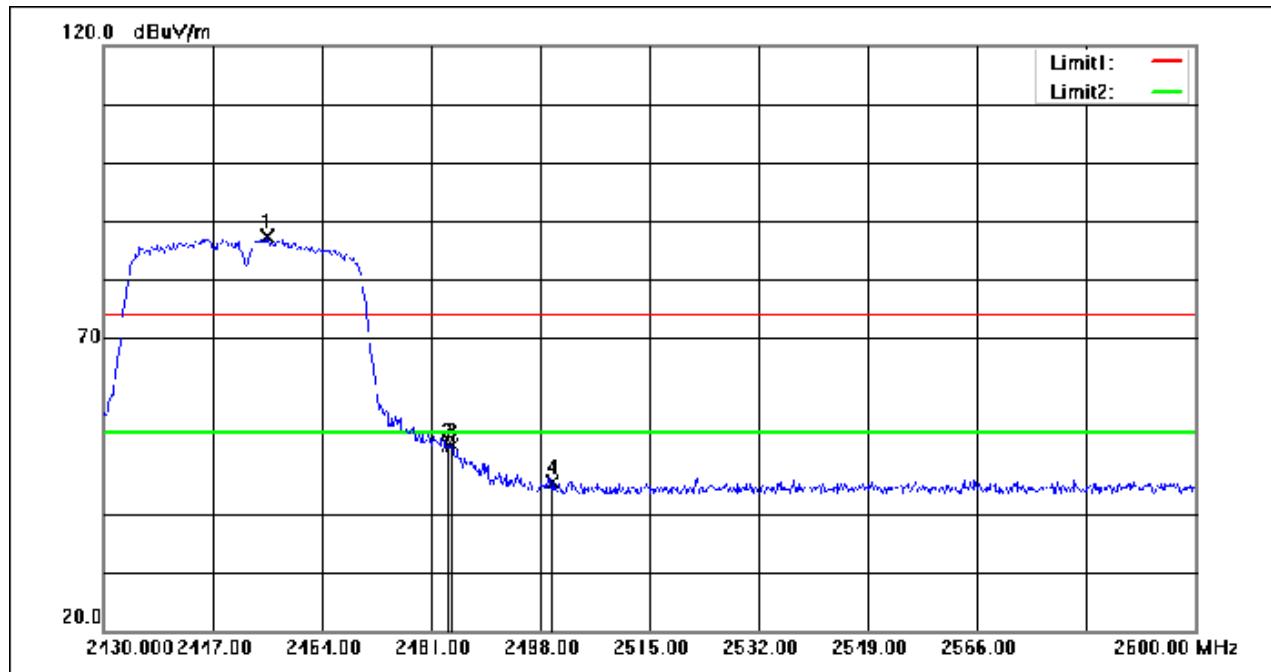
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.140	52.80	-4.25	48.55	74.00	-25.45	peak
2	2390.000	51.28	-4.24	47.04	74.00	-26.96	peak
3	2418.080	90.99	-4.17	86.82	74.00	12.82	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2455.670	97.28	-4.07	93.21	74.00	19.21	peak
2	2483.500	55.54	-4.00	51.54	74.00	-22.46	peak
3	2485.930	55.19	-4.00	51.19	74.00	-22.81	peak
4	2500.000	50.78	-3.96	46.82	74.00	-27.18	peak

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2455.500	91.46	-4.07	87.39	74.00	13.39	peak
2	2483.500	55.65	-4.00	51.65	74.00	-22.35	peak
3	2484.230	55.53	-4.00	51.53	74.00	-22.47	peak
4	2500.000	49.30	-3.96	45.34	74.00	-28.66	peak

7.8 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

Measurement Distance: 3m

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.

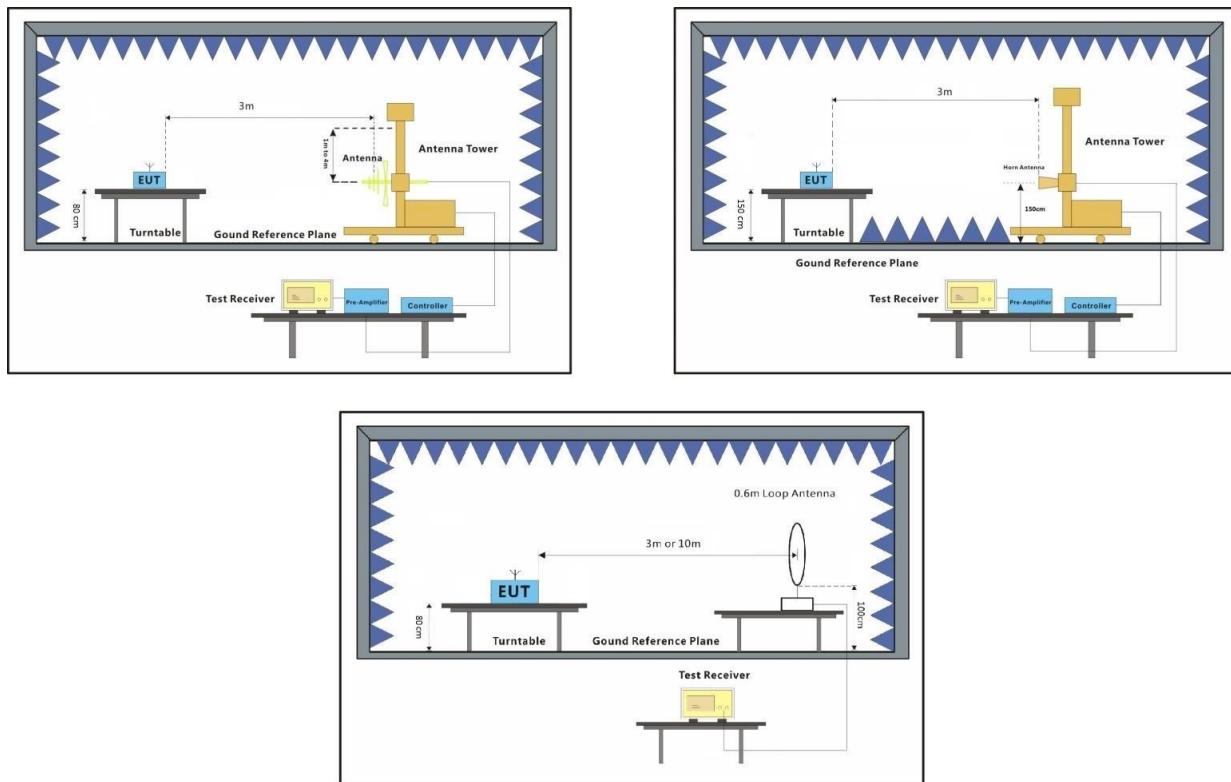
7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 45 % RH Atmospheric Pressure: 1001 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.

7.8.2 Test Setup Diagram



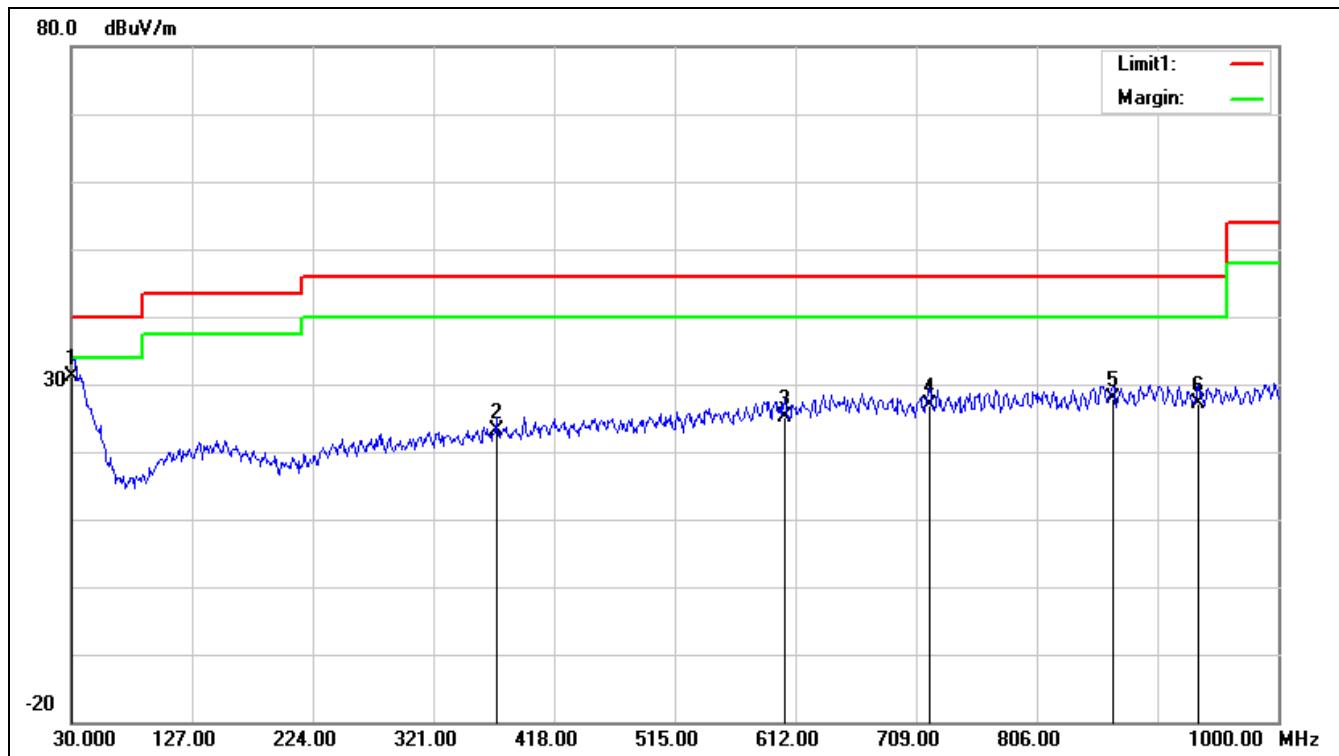
7.8.3 Measurement Procedure and Data

- 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:

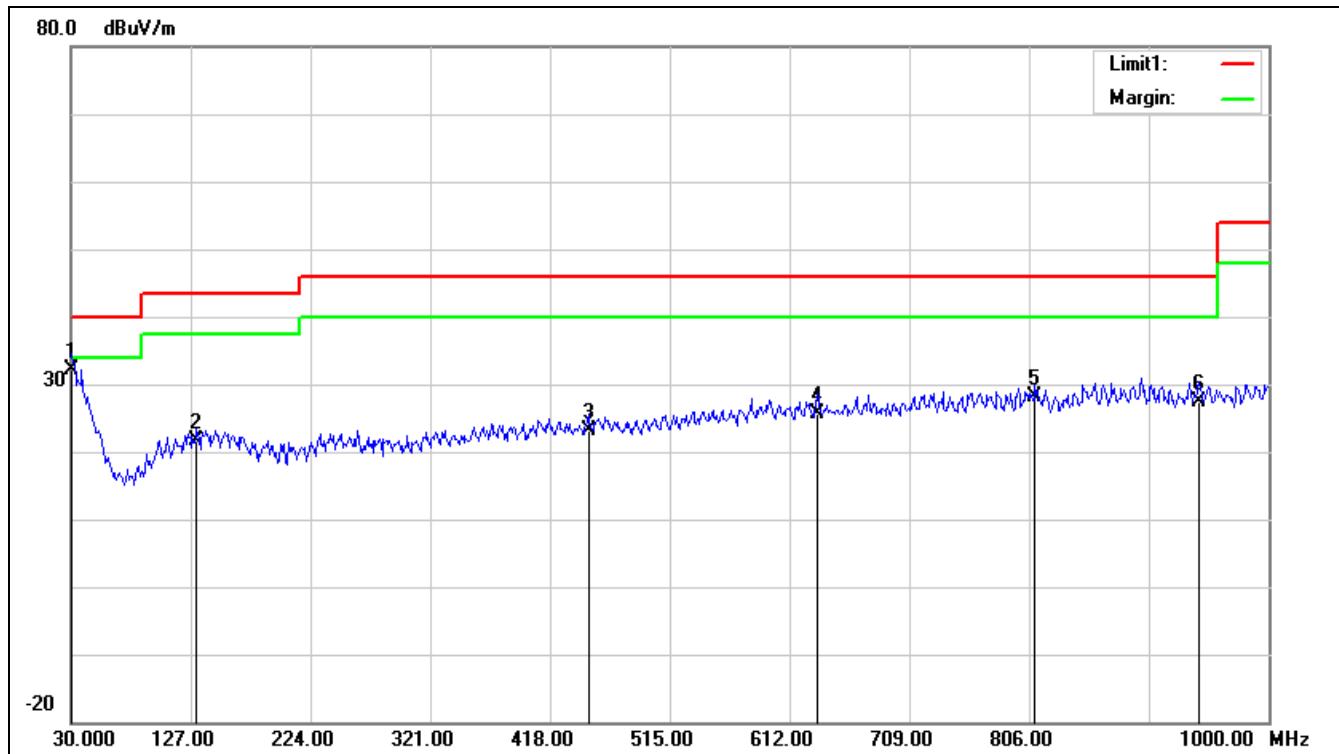
- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final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

30MHz~1GHz:
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	30.77	0.44	31.21	40.00	-8.79	400	201	QP
2	371.4400	27.32	-4.11	23.21	46.00	-22.79	200	145	QP
3	603.2700	24.94	0.20	25.14	46.00	-20.86	100	1	QP
4	719.6700	25.60	1.28	26.88	46.00	-19.12	200	125	QP
5	867.1100	25.63	2.21	27.84	46.00	-18.16	300	186	QP
6	935.9800	24.41	2.60	27.01	46.00	-18.99	100	312	QP

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dB _{uV})	Factor(dB/m)	(dB _{uV/m})	(dB _{uV/m})	(dB)	(cm)	(deg.)	
1	30.0000	31.42	0.82	32.24	40.00	-7.76	300	0	QP
2	131.8500	30.15	-8.57	21.58	43.50	-21.92	100	8	QP
3	449.0400	25.66	-2.65	23.01	46.00	-22.99	200	133	QP
4	634.3100	24.89	0.79	25.68	46.00	-20.32	100	348	QP
5	810.8500	26.24	1.77	28.01	46.00	-17.99	200	281	QP
6	943.7400	24.70	2.62	27.32	46.00	-18.68	400	109	QP

Above 1GHz:

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	39.34	6.40	45.74	54	-8.26	peak
7236	41.06	10.76	51.82	54	-2.18	peak
9648	36.86	14.37	51.23	54	-2.77	peak

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	42.38	6.40	48.78	54	-5.22	peak
7236	37.12	10.76	47.88	54	-6.12	peak
9648	33.73	14.37	48.10	54	-5.90	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.61	6.92	50.53	54	-3.47	peak
7311	38.53	11.08	49.61	54	-4.39	peak
9748	36.66	14.36	51.02	54	-2.98	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.27	6.92	50.19	54	-3.81	peak
7311	36.29	11.08	47.37	54	-6.63	peak
9748	33.52	14.36	47.88	54	-6.12	peak

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

Frequency	RX_R	Factor	Emission	Limit	Over Limit	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	41.30	7.31	48.61	54	-5.39	peak
7386	38.32	11.41	49.73	54	-4.27	peak
9848	33.68	14.38	48.06	54	-5.94	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	38.89	7.31	46.20	54	-7.80	peak
7386	34.77	11.41	46.18	54	-7.82	peak
9848	32.75	14.38	47.13	54	-6.87	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.55	6.40	48.95	54	-5.05	peak
7236	40.78	10.76	51.54	54	-2.46	peak
9648	34.42	14.37	48.79	54	-5.21	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	39.98	6.40	46.38	54	-7.62	peak
7236	39.78	10.76	50.54	54	-3.46	peak
9648	33.58	14.37	47.95	54	-6.05	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	41.56	6.92	48.48	54	-5.52	peak
7311	35.43	11.08	46.51	54	-7.49	peak
9748	36.10	14.36	50.46	54	-3.54	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.78	6.92	50.70	54	-3.30	peak
7311	34.40	11.08	45.48	54	-8.52	peak
9748	31.44	14.36	45.80	54	-8.20	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.58	7.31	49.89	54	-4.11	peak
7386	39.11	11.41	50.52	54	-3.48	peak
9848	32.10	14.38	46.48	54	-7.52	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	43.78	7.31	51.09	54	-2.91	peak
7386	36.20	11.41	47.61	54	-6.39	peak
9848	31.21	14.38	45.59	54	-8.41	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	43.23	6.40	49.63	54	-4.37	peak
7236	36.43	10.76	47.19	54	-6.81	peak
9648	30.75	14.37	45.12	54	-8.88	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	38.40	6.40	44.80	54	-9.20	peak
7236	43.13	10.76	53.89	54	-0.11	peak
9648	30.21	14.37	44.58	54	-9.42	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.57	6.92	47.49	54	-6.51	peak
7311	37.32	11.08	48.40	54	-5.60	peak
9748	31.51	14.36	45.87	54	-8.13	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.35	6.92	50.27	54	-3.73	peak
7311	39.18	11.08	50.26	54	-3.74	peak
9748	34.86	14.36	49.22	54	-4.78	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	41.40	7.31	48.71	54	-5.29	peak
7386	38.65	11.41	50.06	54	-3.94	peak
9848	33.09	14.38	47.47	54	-6.53	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	40.87	7.31	48.18	54	-5.82	peak
7386	37.87	11.41	49.28	54	-4.72	peak
9848	36.59	14.38	50.97	54	-3.03	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	42.81	6.60	49.41	54	-4.59	peak
7266	36.52	10.89	47.41	54	-6.59	peak
9688	33.93	14.35	48.28	54	-5.72	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	41.63	6.60	48.23	54	-5.77	peak
7266	37.87	10.89	48.76	54	-5.24	peak
9688	30.97	14.35	45.32	54	-8.68	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.47	6.92	45.39	54	-8.61	peak
7311	39.99	11.08	51.07	54	-2.93	peak
9748	34.41	14.36	48.77	54	-5.23	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.45	6.92	46.37	54	-7.63	peak
7311	36.60	11.08	47.68	54	-6.32	peak
9748	36.20	14.36	50.56	54	-3.44	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	43.79	7.22	51.01	54	-2.99	peak
7356	37.32	11.28	48.60	54	-5.40	peak
9808	35.91	14.37	50.28	54	-3.72	peak

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

Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	38.81	7.22	46.03	54	-7.97	peak
7356	35.63	11.28	46.91	54	-7.09	peak
9808	34.99	14.37	49.36	54	-4.64	peak



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 -