

# TEST REPORT

**Application No.:** SHCR2204000850AT  
**FCC ID:** 2APV2-CSC6N1G2WF  
**Applicant:** Hangzhou Ezviz Software Co., Ltd.  
**Address of Applicant:** Room 302,Unit B,Building 2,399 Danfeng Road,Binjiang District, Hangzhou, Zhejiang  
**Manufacturer:** Hangzhou Ezviz Software Co., Ltd.  
**Address of Manufacturer:** Room 302,Unit B,Building 2,399 Danfeng Road,Binjiang District, Hangzhou, Zhejiang

**Equipment Under Test (EUT):**

**EUT Name:** Smart Home Camera  
**Model No.:** CS-C6N (1080P), CS-C6N, CS-CP1, CS-TY1, CS-TY2, CS-CP1 (1080P), CS-TY1 (2WF, 4mm), CS-TY2 (2WF, 4mm), CS-TY1 (1080P), CS-TY2 (1080P), CS-CP1-R101-1G2WF, CS-C6N-R101-1G2WF, CS-TY1-R101-1G2WF, CS-TY2-R101-1G2WF, CS-H6c, CS-H6c (1080P), CS-H6c-R101-1G2WF♣

♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade Mark:** EZVIZ  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2022-04-27  
**Date of Test:** 2022-05-17 to 2022-06-16  
**Date of Issue:** 2022-06-17

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

*Parlam Zhan*

Parlam Zhan  
Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-06-17		Original

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



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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(b)(4)	Customer Declaration

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Average Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		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		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Model No.: CS-C6N (1080P),CS-C6N,CS-CP1,CS-TY1,CS-TY2,CS-CP1 (1080P), CS-TY1 (2WF,4mm),CS-TY2 (2WF,4mm),CS-TY1 (1080P),CS-TY2 (1080P), CS-CP1-R101-1G2WF,CS-C6N-R101-1G2WF,CS-TY1-R101-1G2WF,CS-TY2-R101-1G2WF, CS-H6c,CS-H6c (1080P),CS-H6c-R101-1G2WF

Only the model CS-C6N (1080P) was tested.

There are series models mentioned in this report and they are identical on circuitry design, PCB layout, electrical components used, internal wiring and functions. Only the model CS-C6N (1080P) was tested since their differences are model number and product appearance.



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### 3 Contents

	Page
<b>1 COVER PAGE</b> .....	<b>1</b>
<b>2 TEST SUMMARY</b> .....	<b>3</b>
<b>3 CONTENTS</b> .....	<b>4</b>
<b>4 GENERAL INFORMATION</b> .....	<b>6</b>
4.1 DETAILS OF E.U.T. ....	6
4.2 POWER LEVEL SETTING USING IN TEST:.....	6
4.3 ENVIRONMENT PARAMETER.....	6
4.4 DESCRIPTION OF SUPPORT UNITS.....	6
4.5 MEASUREMENT UNCERTAINTY.....	7
4.6 TEST LOCATION.....	8
4.7 TEST FACILITY.....	8
4.8 ABNORMALITIES FROM STANDARD CONDITIONS.....	8
<b>5 EQUIPMENT LIST</b> .....	<b>9</b>
<b>6 RADIO SPECTRUM TECHNICAL REQUIREMENT</b> .....	<b>13</b>
6.1 ANTENNA REQUIREMENT.....	13
6.1.1 <i>Test Requirement:</i> .....	13
6.1.2 <i>Conclusion</i> .....	13
<b>7 RADIO SPECTRUM MATTER TEST RESULTS</b> .....	<b>14</b>
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ).....	14
7.1.1 <i>E.U.T. Operation</i> .....	14
7.1.2 <i>Test Mode Description</i> .....	14
7.1.3 <i>Test Setup Diagram</i> .....	15
7.1.4 <i>Measurement Procedure and Data</i> .....	15
7.2 CONDUCTED AVERAGE OUTPUT POWER.....	18
7.2.1 <i>E.U.T. Operation</i> .....	18
7.2.2 <i>Test Mode Description</i> .....	18
7.2.3 <i>Test Setup Diagram</i> .....	19
7.2.4 <i>Measurement Procedure and Data</i> .....	19
7.3 MINIMUM 6DB BANDWIDTH.....	20
7.3.1 <i>E.U.T. Operation</i> .....	20
7.3.2 <i>Test Mode Description</i> .....	20
7.3.3 <i>Test Setup Diagram</i> .....	20
7.3.4 <i>Measurement Procedure and Data</i> .....	20
7.4 POWER SPECTRUM DENSITY.....	21
7.4.1 <i>E.U.T. Operation</i> .....	21
7.4.2 <i>Test Mode Description</i> .....	21
7.4.3 <i>Test Setup Diagram</i> .....	21
7.4.4 <i>Measurement Procedure and Data</i> .....	21
7.5 CONDUCTED BAND EDGES MEASUREMENT.....	22
7.5.1 <i>E.U.T. Operation</i> .....	22
7.5.2 <i>Test Mode Description</i> .....	22



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7.5.3	Test Setup Diagram.....	22
7.5.4	Measurement Procedure and Data.....	23
7.6	CONDUCTED SPURIOUS EMISSIONS.....	24
7.6.1	E.U.T. Operation.....	24
7.6.2	Test Mode Description.....	24
7.6.3	Test Setup Diagram.....	24
7.6.4	Measurement Procedure and Data.....	25
7.7	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....	26
7.7.1	E.U.T. Operation.....	26
7.7.2	Test Mode Description.....	26
7.7.3	Test Setup Diagram.....	27
7.7.4	Measurement Procedure and Data.....	28
7.8	RADIATED SPURIOUS EMISSIONS BELOW 1GHZ.....	51
7.8.1	E.U.T. Operation.....	51
7.8.2	Test Mode Description.....	51
7.8.3	Test Setup Diagram.....	52
7.8.4	Measurement Procedure and Data.....	52
7.9	RADIATED SPURIOUS EMISSIONS ABOVE 1GHZ.....	55
7.9.1	E.U.T. Operation.....	55
7.9.2	Test Mode Description.....	55
7.9.3	Test Setup Diagram.....	55
7.9.4	Measurement Procedure and Data.....	56
<b>8</b>	<b>TEST SETUP PHOTO.....</b>	<b>75</b>
<b>9</b>	<b>EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS).....</b>	<b>75</b>



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## 4 General Information

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

Power supply:	DC 5V ,1A, 5W
Test Voltage:	AC 120V/60Hz
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
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
Channel Spacing:	5MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.83dBi(Provided by the manufacturer)

### 4.2 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	-10	-6	-6
6	-10	-6	-6
11	-10	-6	-6

### 4.3 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Value	Temperature	Voltage
NTNV	25°C	AC 120V/60Hz

Note:  
 NV:Normal Voltage                      LV:Low Extreme Test Voltage                      HV:High Extreme Test Voltage  
 NT:Normal Temperature                      LT:Low Extreme Test Temperature                      HT:High Extreme Test Temperature

### 4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/
Adapter	Mingxin	MX15U-0503000UU	



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#### 4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

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



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#### 4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

#### 4.7 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 (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• **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-20134, R-11600, C-11707, T-11499, G-10216 respectively.

None

#### 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI TEST RECEIVER	R&S	ESCI	KS301101	01/22/2022	01/21/2023
TWO-LINE V-NETWORK	R&S	ENV216	KS301197	10/12/2021	10/11/2022
V (V-LISN)	SCHWARZBECK	NNLK 8129	KS301091	10/12/2021	10/11/2022
Pulse LIMITER	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
Software	Faratronic	EZ EMC-v3A1	N/A	N/A	N/A

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	Agilent	E4446A	MY44020154	04/01/2022	03/31/2023
Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
Power Meter	Agilent	E4416A	GB41292714	01/22/2022	01/21/2023
Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
DC Power Supply	Aglient	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	/	04/01/2022	03/31/2023
Software	SGS	TST-PASS V1.1.0	N/A	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	Agilent	E4446A	MY44020154	04/01/2022	03/31/2023
Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
Power Meter	Agilent	E4416A	GB41292714	01/22/2022	01/21/2023
AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
DC Power Supply	Aglient	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	/	04/01/2022	03/31/2023



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Software	SGS	TST-PASS V1.1.0	N/A	N/A	N/A
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<b>Power Spectrum Density</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	Agilent	E4446A	MY44020154	04/01/2022	03/31/2023
Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
DC Power Supply	Aglient	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	/	04/01/2022	03/31/2023
Software	SGS	TST-PASS V1.1.0	N/A	N/A	N/A

<b>Conducted Band Edges Measurement</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	Agilent	E4446A	MY44020154	04/01/2022	03/31/2023
Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
DC Power Supply	Aglient	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	/	04/01/2022	03/31/2023
Software	SGS	TST-PASS V1.1.0	N/A	N/A	N/A

<b>Conducted Spurious Emissions</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	Agilent	E4446A	MY44020154	04/01/2022	03/31/2023
Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
Switcher	CCSRF	FY562	KUS2001M001	10/12/2021	10/11/2022



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			-3		
AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
DC Power Supply	Aglient	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	/	04/01/2022	03/31/2023
Software	SGS	TST-PASS V1.1.0	N/A	N/A	N/A

**Radiated Emissions which fall in the restricted bands**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
Loop Antenna	COM-POWER	AL-130R	10160008	04/13/2021	04/12/2023
Bilog Antenna	TESEQ	CBL 6112D	36996	06/29/2021	06/28/2023
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	143290	02/22/2021	02/21/2023
Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	03/22/2022	03/21/2023
Pre-Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
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 (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
RE test cable	/	RE01-RE04	/	04/01/2022	03/31/2023
Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A

**Radiated Spurious Emissions Below 1GHz**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
Loop Antenna	COM-POWER	AL-130R	10160008	04/13/2021	04/12/2023
Bilog Antenna	TESEQ	CBL 6112D	36996	06/29/2021	06/28/2023
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
Pre-Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R



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High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
RE test cable	/	RE01-RE04	/	04/01/2022	03/31/2023
Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A

<b>Radiated Spurious Emissions Above 1GHz</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	143290	02/22/2021	02/21/2023
Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	03/22/2022	03/21/2023
Pre-Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
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 (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
RE test cable	/	RE01-RE04	/	04/01/2022	03/31/2023
Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A

<b>General used equipment</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital Pressure Meter	Mengde	DYM3	CZ750023	02/01/2022	01/31/2023
Temperature & Humidity Recorder	Anymetre	TH603	CZ720001-1 CZ720001-2 CZ720001-3 CZ720001-4 CZ720001-5 CZ720001-6 CZ720001-7	10/14/2021	10/13/2022



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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(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 PCB Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.83dBi.

Antenna location: Refer to internal photo.



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## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207  
 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.  
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

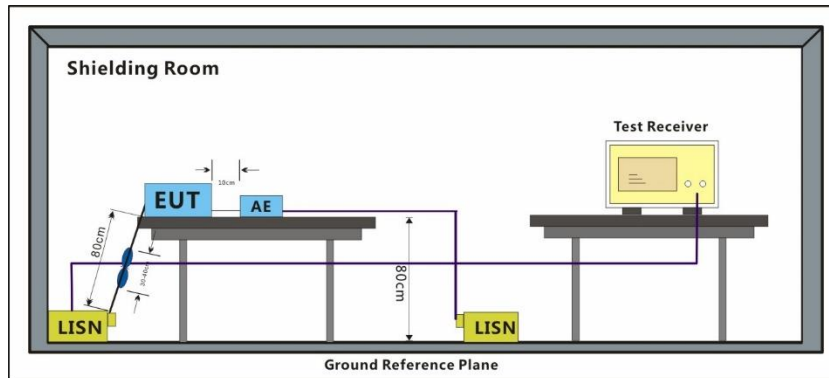
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.



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### 7.1.3 Test Setup Diagram



### 7.1.4 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.

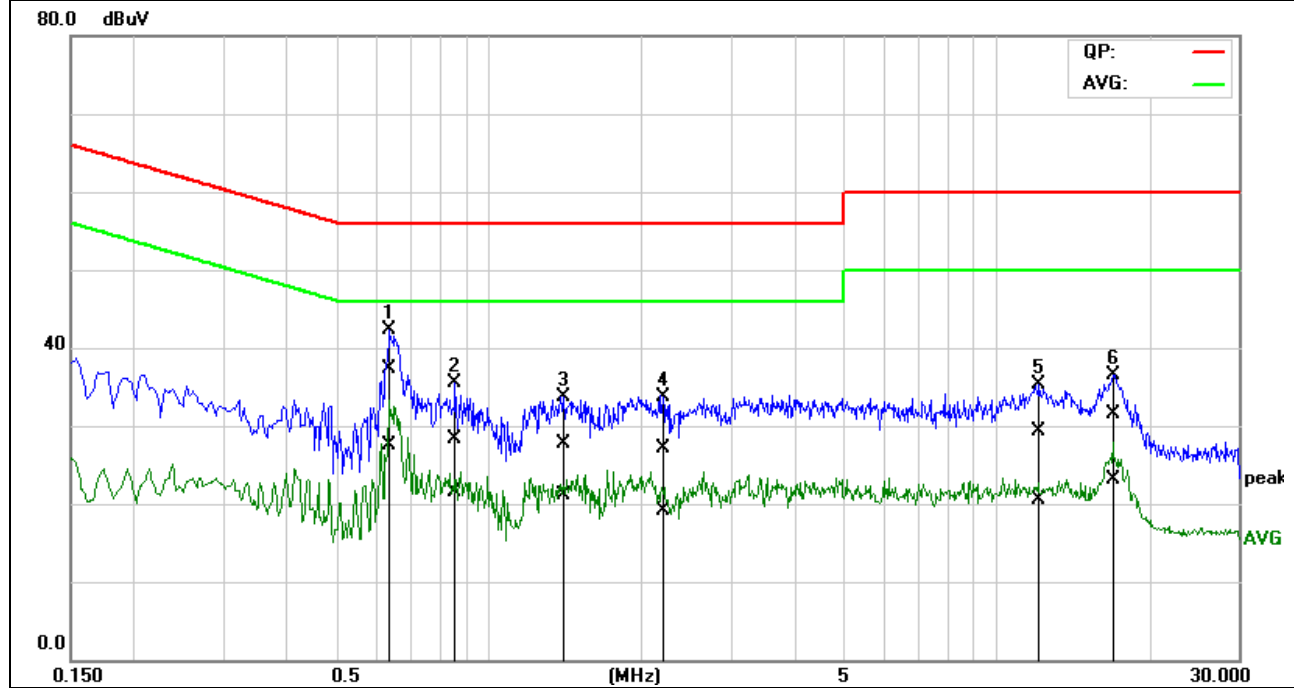
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 00; Line: Live line



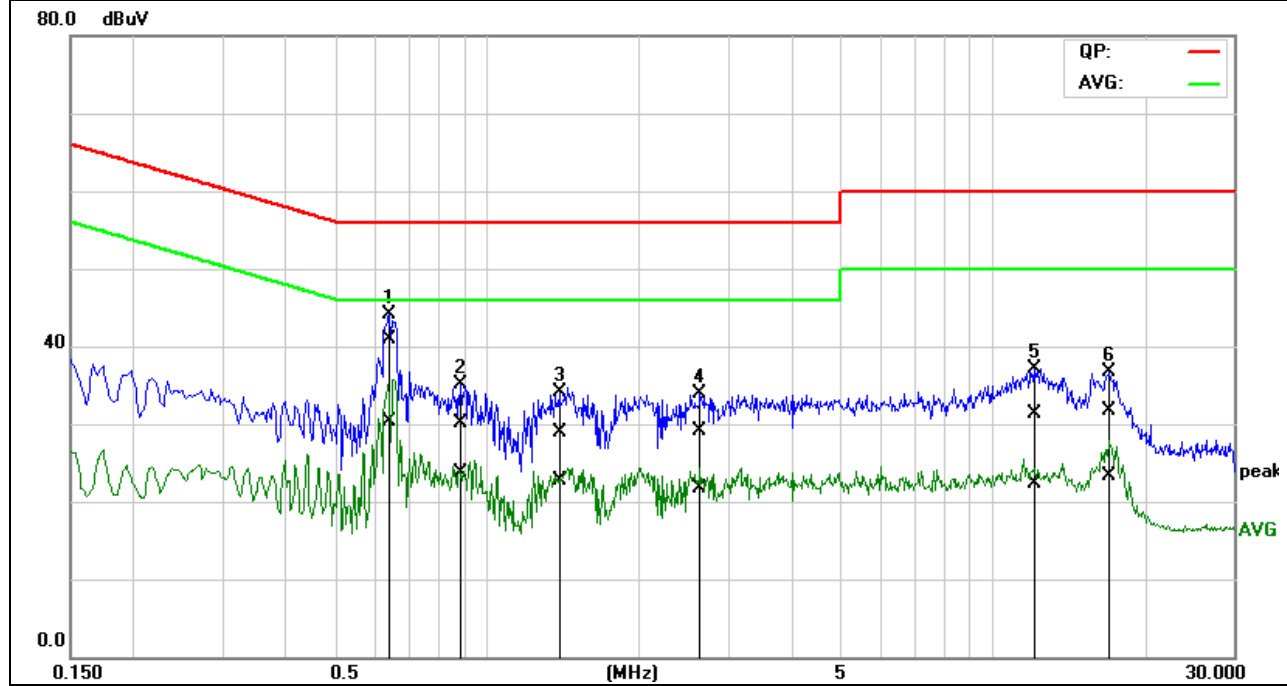
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.6428	17.67	7.93	19.57	37.24	27.50	56.00	46.00	-18.76	-18.50	Pass
2	0.8568	8.79	1.91	19.59	28.38	21.50	56.00	46.00	-27.62	-24.50	Pass
3	1.4170	8.00	1.39	19.62	27.62	21.01	56.00	46.00	-28.38	-24.99	Pass
4	2.2198	7.48	-0.61	19.65	27.13	19.04	56.00	46.00	-28.87	-26.96	Pass
5	12.0797	9.12	0.39	20.11	29.23	20.50	60.00	50.00	-30.77	-29.50	Pass
6	17.0529	11.15	2.82	20.27	31.42	23.09	60.00	50.00	-28.58	-26.91	Pass



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Test Mode: 00; Line: Neutral Line



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.6420	21.38	10.76	19.56	40.94	30.32	56.00	46.00	-15.06	-15.68	Pass
2	0.8840	10.51	4.11	19.59	30.10	23.70	56.00	46.00	-25.90	-22.30	Pass
3	1.4009	9.33	3.12	19.62	28.95	22.74	56.00	46.00	-27.05	-23.26	Pass
4	2.6276	9.44	2.07	19.68	29.12	21.75	56.00	46.00	-26.88	-24.25	Pass
5	12.1133	11.24	2.13	20.11	31.35	22.24	60.00	50.00	-28.65	-27.76	Pass
6	17.0713	11.40	3.07	20.26	31.66	23.33	60.00	50.00	-28.34	-26.67	Pass



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## 7.2 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ 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

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 43.9 % RH Atmospheric Pressure: 1010 mbar

### 7.2.2 Test Mode Description

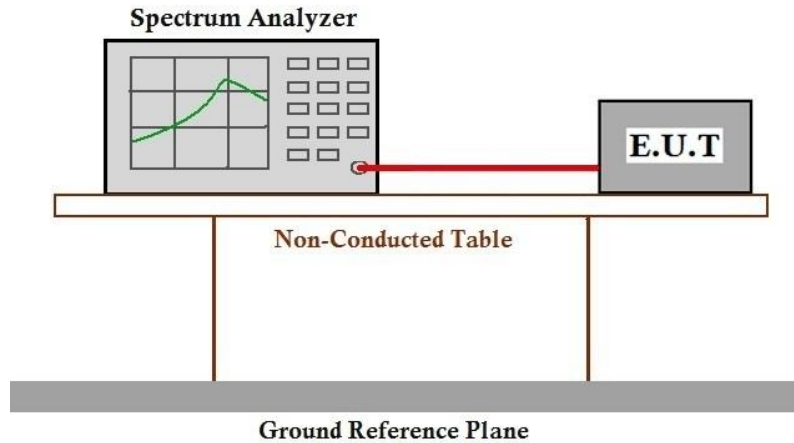
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.



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### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix A for SHCR220400085001



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### 7.3 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

#### 7.3.1 E.U.T. Operation

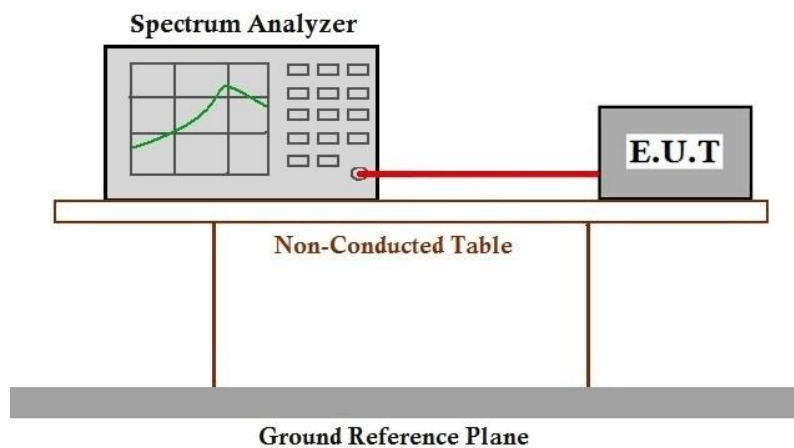
Operating Environment:

Temperature: 23.9 °C Humidity: 43.8 % RH Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix A for SHCR220400085001



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

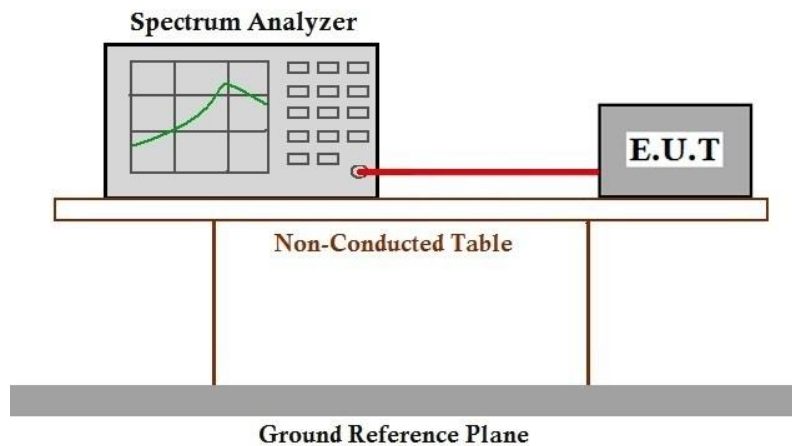
#### 7.4.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.8 °C Humidity: 43.3 % RH Atmospheric Pressure: 1010 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix A for SHCR220400085001



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## 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

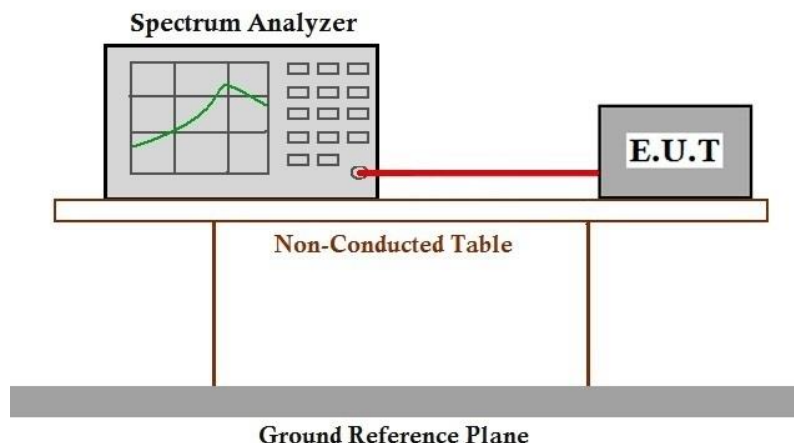
Operating Environment:

Temperature: 23.9 °C Humidity: 43.3 % RH Atmospheric Pressure: 1010 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

### 7.5.3 Test Setup Diagram



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#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix A for SHCR220400085001



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## 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: 23.9 °C

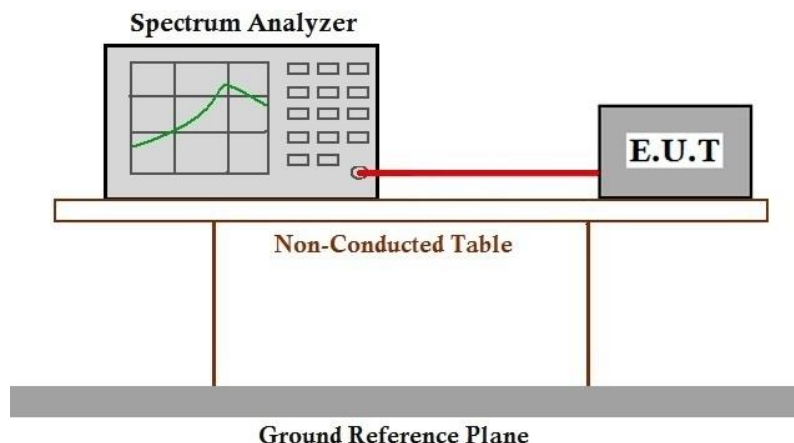
Humidity: 43.3 % RH

Atmospheric Pressure: 1010 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

### 7.6.3 Test Setup Diagram



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#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix A for SHCR220400085001



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**7.7 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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.

**7.7.1 E.U.T. Operation**

Operating Environment:

Temperature: 25.4 °C Humidity: 34.0 % RH Atmospheric Pressure: 1010 mbar

**7.7.2 Test Mode Description**

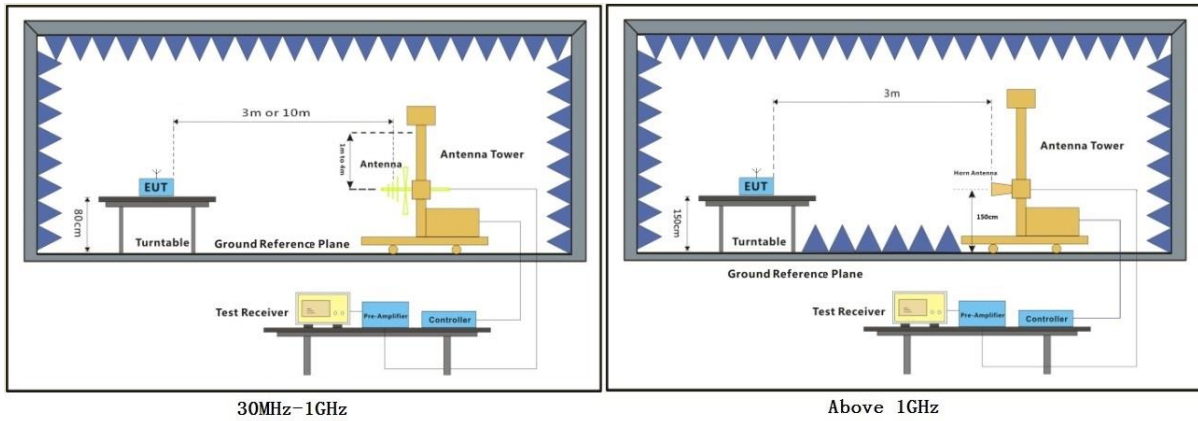
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.



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### 7.7.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



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**7.7.4 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

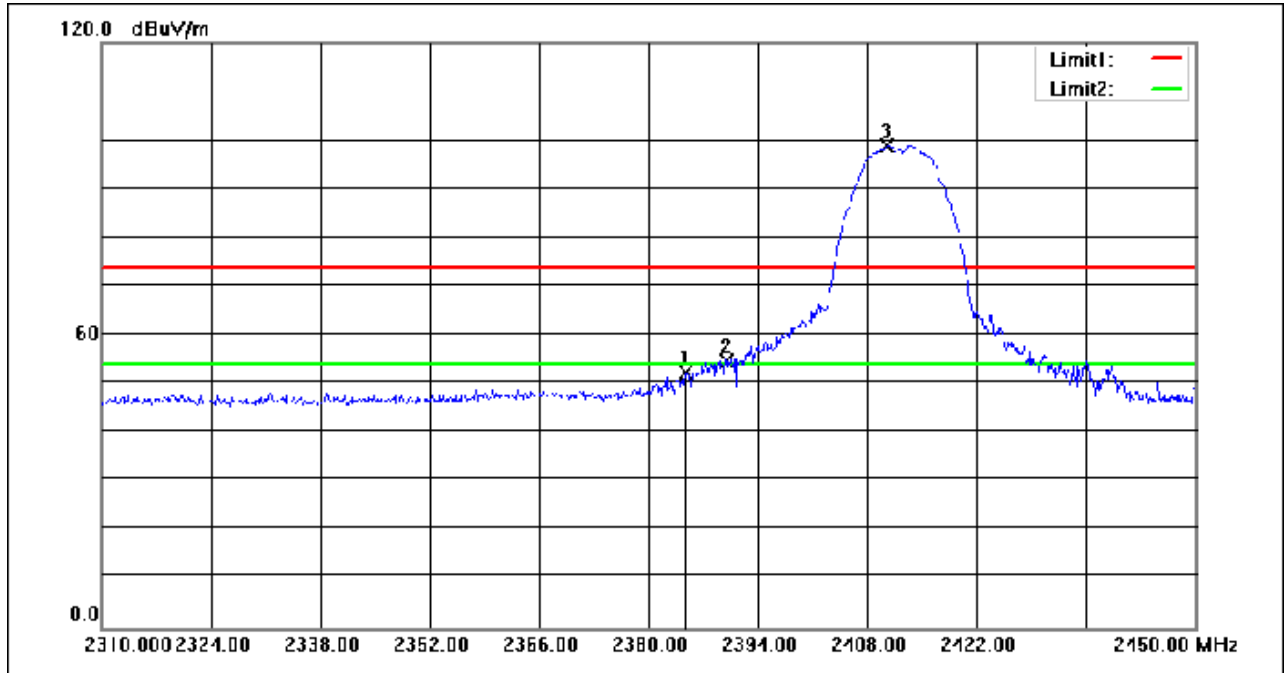
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

Remark3: For WLAN radiated test, according to the conducted power and verify test the SISO & MIMO mode, the worst-case is SISO mode for 802.11b/g, MIMO mode for 802.11n, therefore, all final test are performed in SISO & MIMO mode and reported.



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



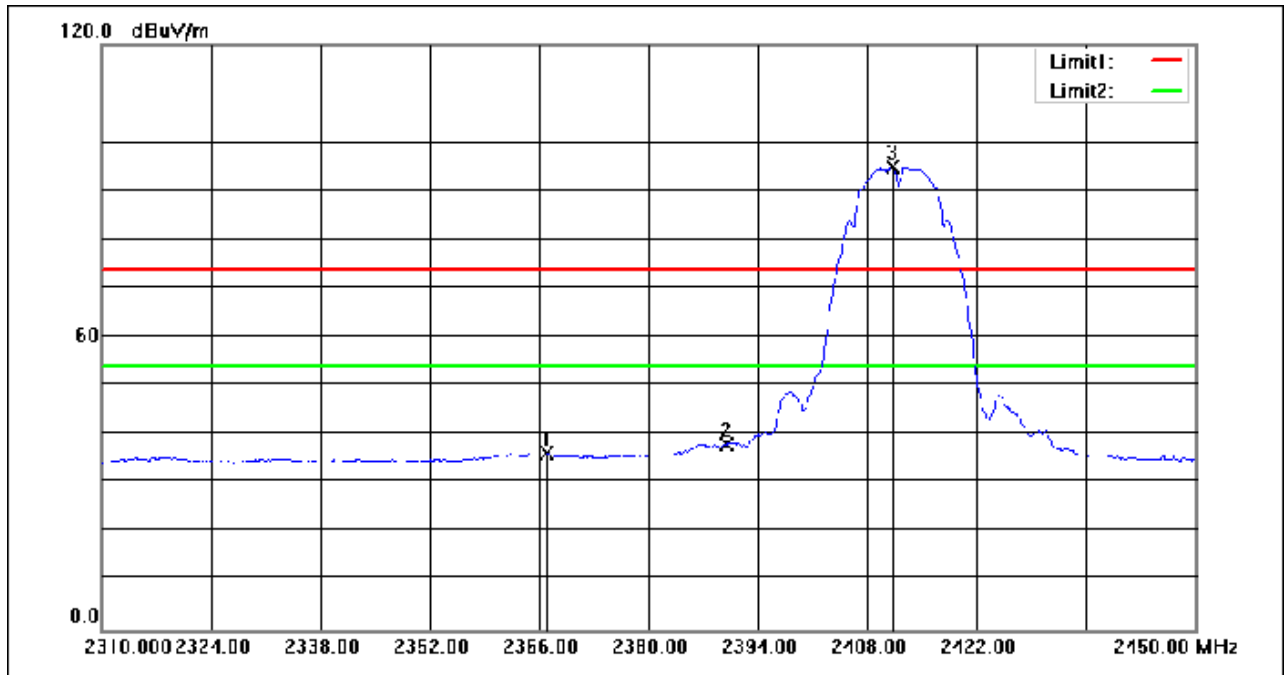
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.760	66.29	-14.03	52.26	74.00	-21.74	peak
2	2390.000	68.73	-14.01	54.72	74.00	-19.28	peak
3	2410.520	112.82	-13.94	98.88	74.00	24.88	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



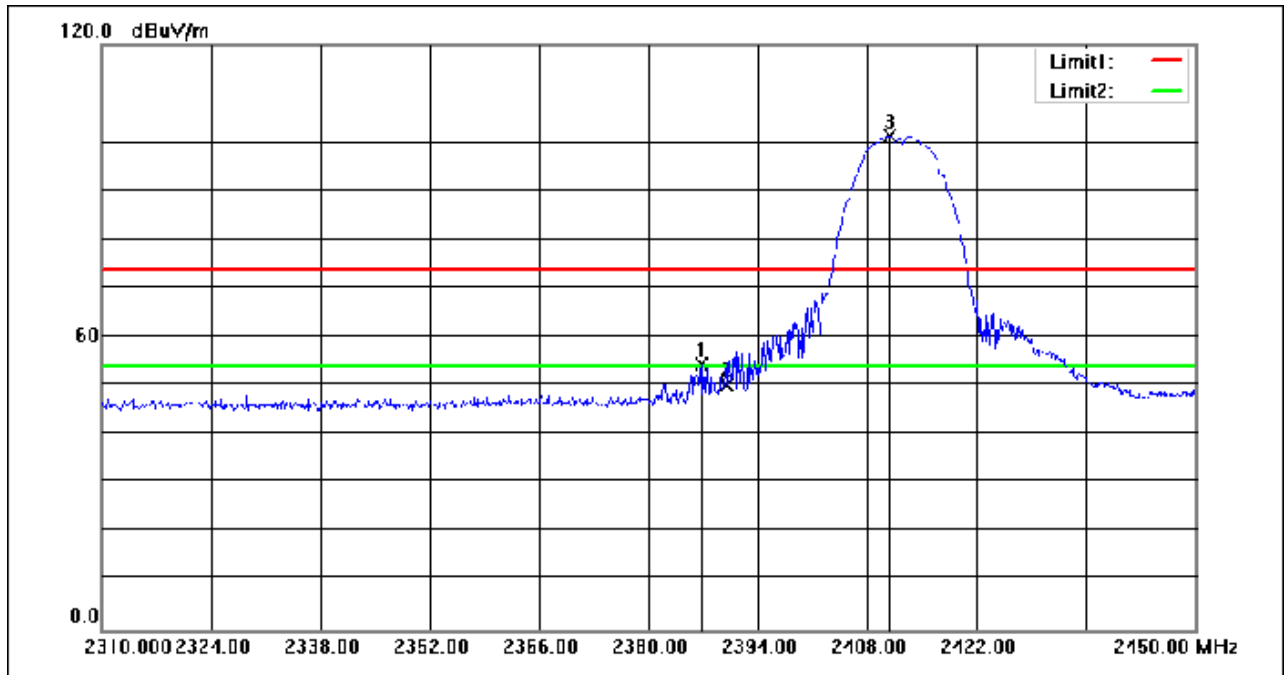
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2366.980	50.20	-14.08	36.12	54.00	-17.88	AVG
2	2390.000	52.07	-14.01	38.06	54.00	-15.94	AVG
3	2411.220	108.87	-13.94	94.93	54.00	40.93	AVG



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



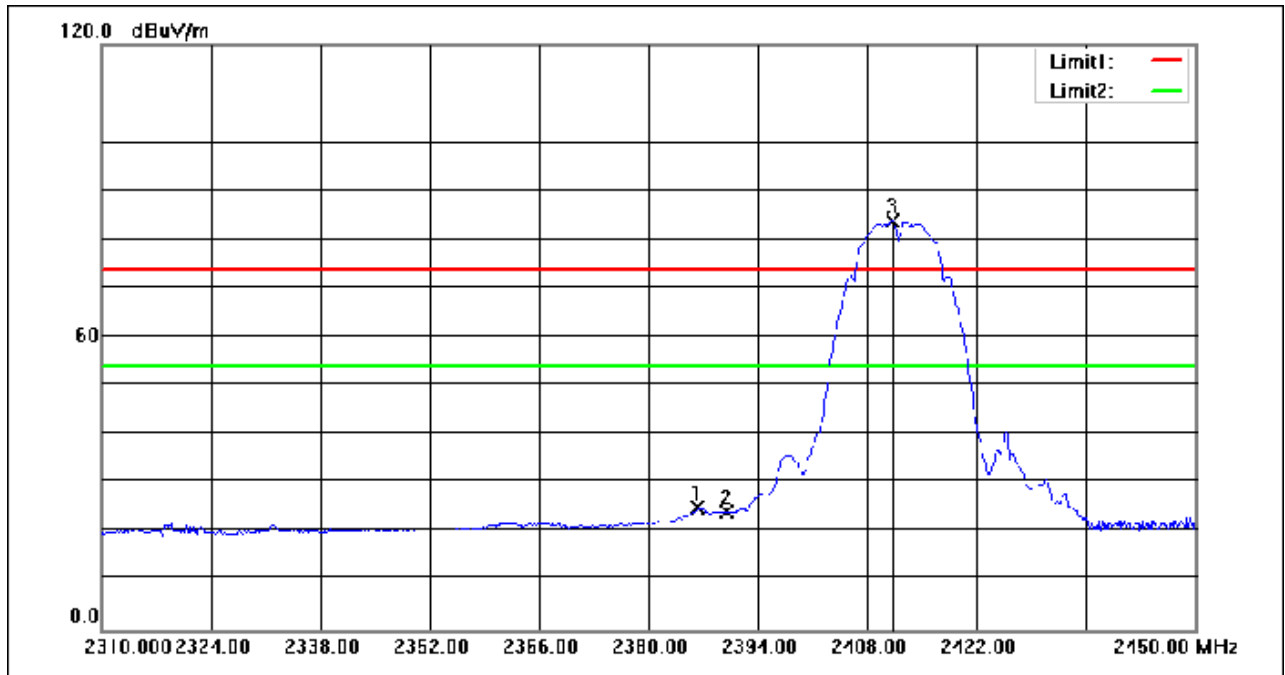
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.860	68.33	-14.02	54.31	74.00	-19.69	peak
2	2390.000	64.13	-14.01	50.12	74.00	-23.88	peak
3	2410.940	115.15	-13.94	101.21	74.00	27.21	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.300	38.93	-14.02	24.91	54.00	-29.09	AVG
2	2390.000	38.12	-14.01	24.11	54.00	-29.89	AVG
3	2411.220	97.74	-13.94	83.80	54.00	29.80	AVG

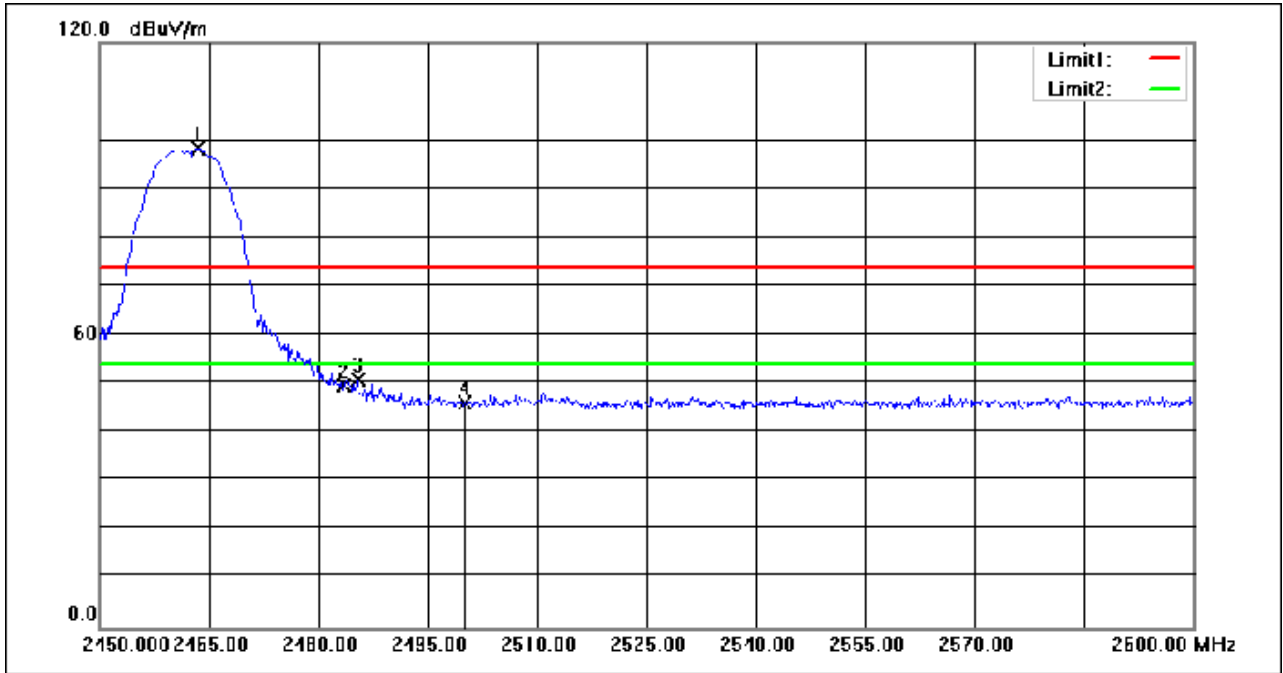


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

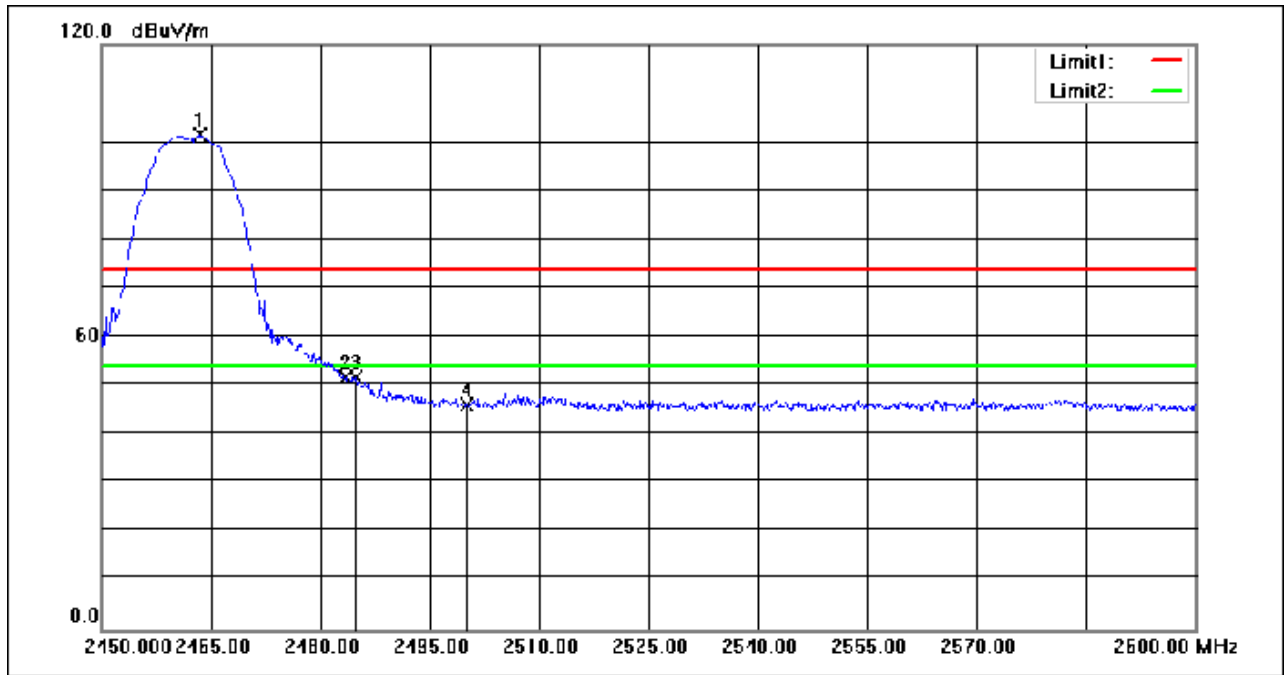


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.500	112.02	-13.77	98.25	74.00	24.25	peak
2	2483.500	63.48	-13.71	49.77	74.00	-24.23	peak
3	2485.400	64.58	-13.70	50.88	74.00	-23.12	peak
4	2500.000	59.59	-13.64	45.95	74.00	-28.05	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



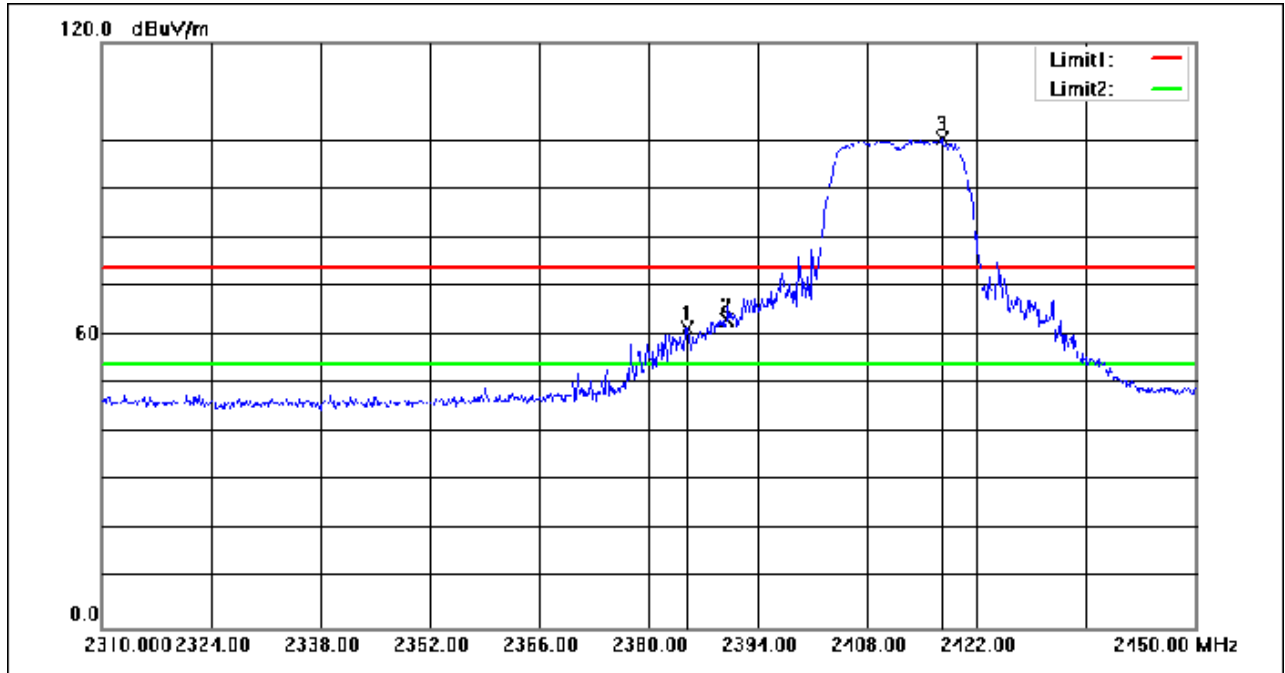
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.500	115.23	-13.77	101.46	74.00	27.46	peak
2	2483.500	65.40	-13.71	51.69	74.00	-22.31	peak
3	2484.800	65.32	-13.70	51.62	74.00	-22.38	peak
4	2500.000	59.75	-13.64	46.11	74.00	-27.89	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

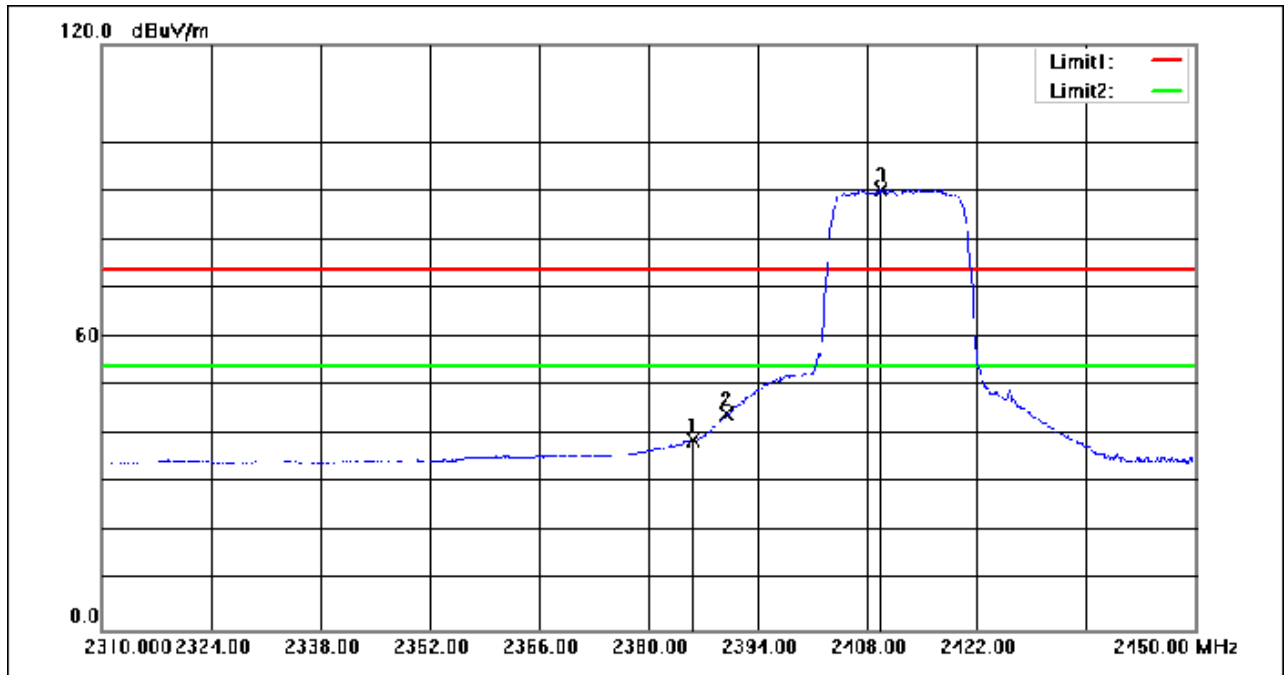


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.900	75.37	-14.03	61.34	74.00	-12.66	peak
2	2390.000	77.31	-14.01	63.30	74.00	-10.70	peak
3	2417.520	114.32	-13.93	100.39	74.00	26.39	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



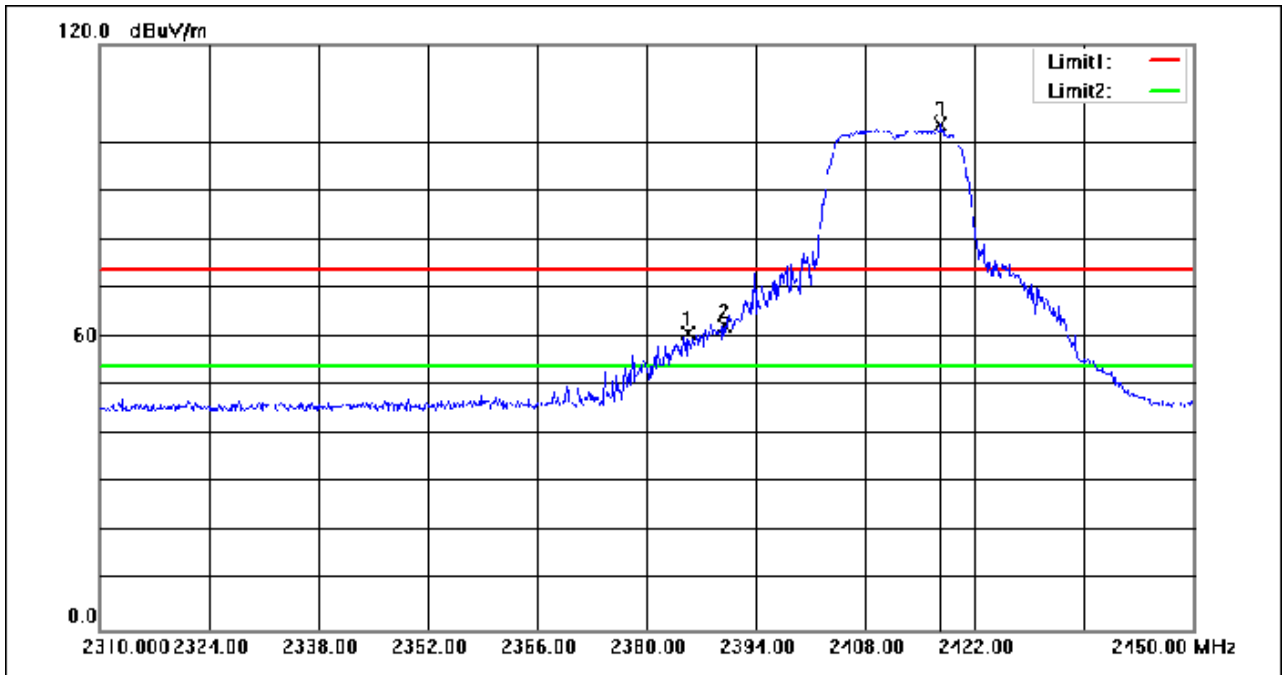
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.740	52.91	-14.02	38.89	54.00	-15.11	AVG
2	2390.000	58.20	-14.01	44.19	54.00	-9.81	AVG
3	2409.680	104.20	-13.95	90.25	54.00	36.25	AVG



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

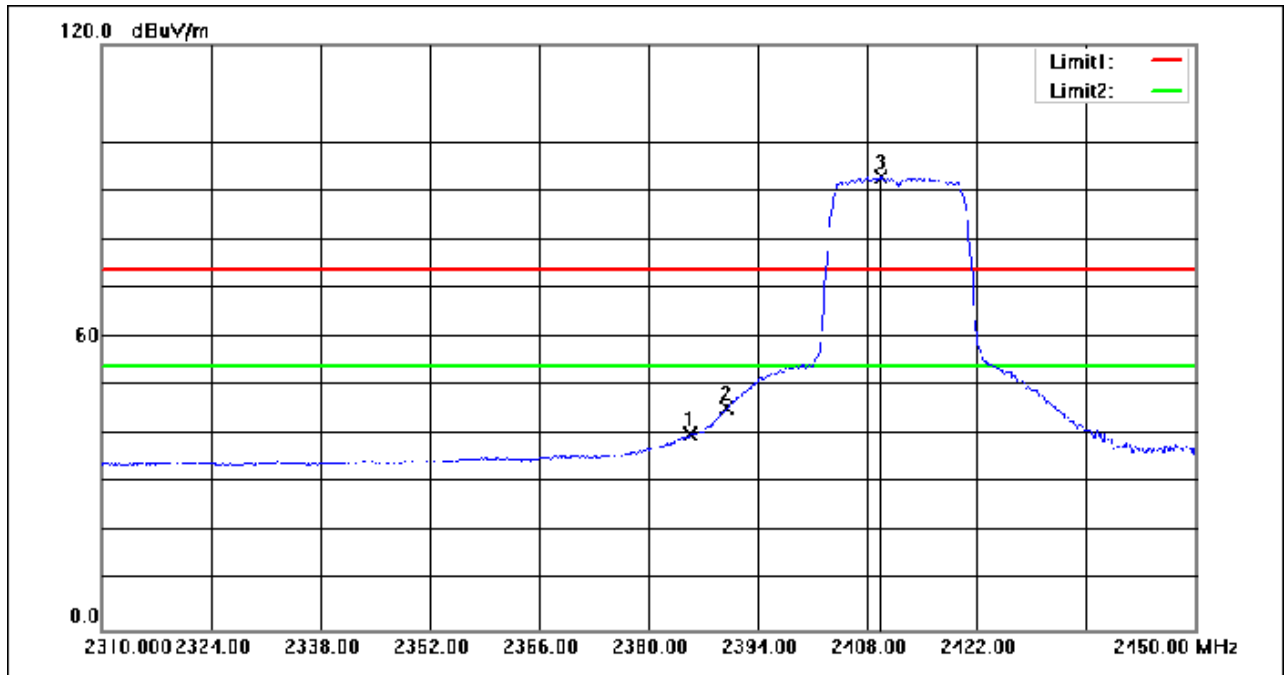


No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.320	74.71	-14.03	60.68	74.00	-13.32	peak
2	2390.000	76.40	-14.01	62.39	74.00	-11.61	peak
3	2417.660	117.52	-13.92	103.60	74.00	29.60	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

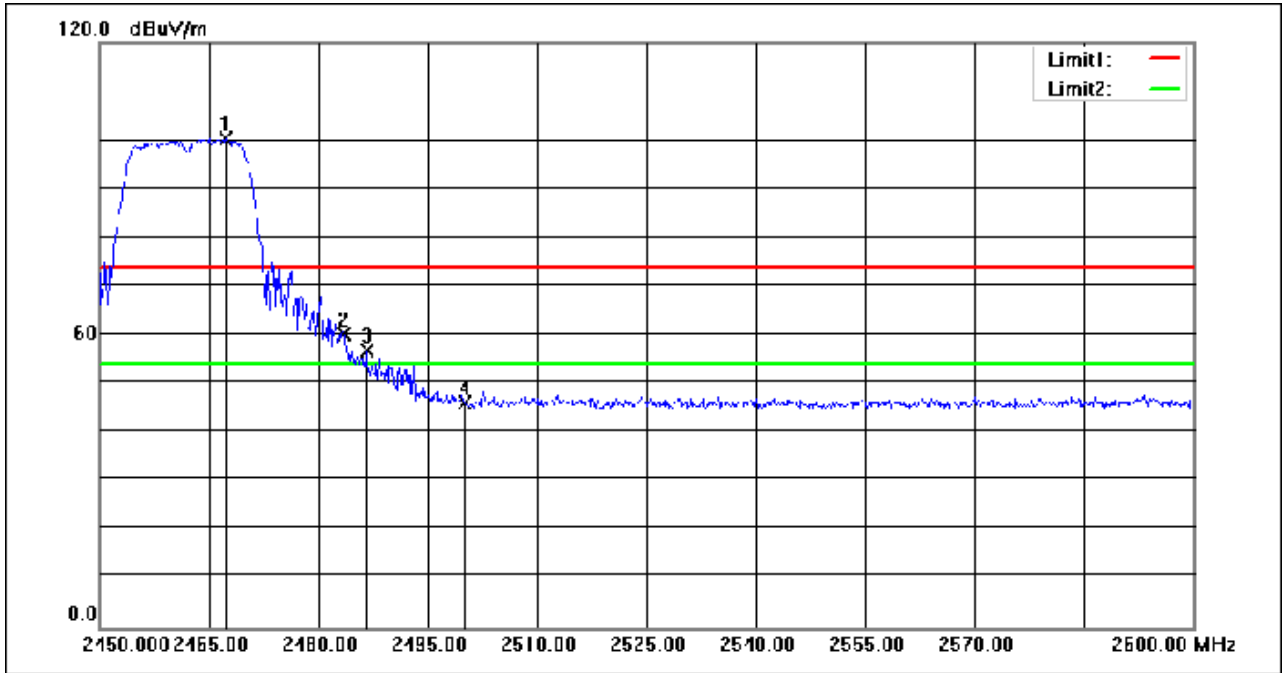


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.320	54.01	-14.03	39.98	54.00	-14.02	AVG
2	2390.000	59.34	-14.01	45.33	54.00	-8.67	AVG
3	2409.820	106.73	-13.95	92.78	54.00	38.78	AVG



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



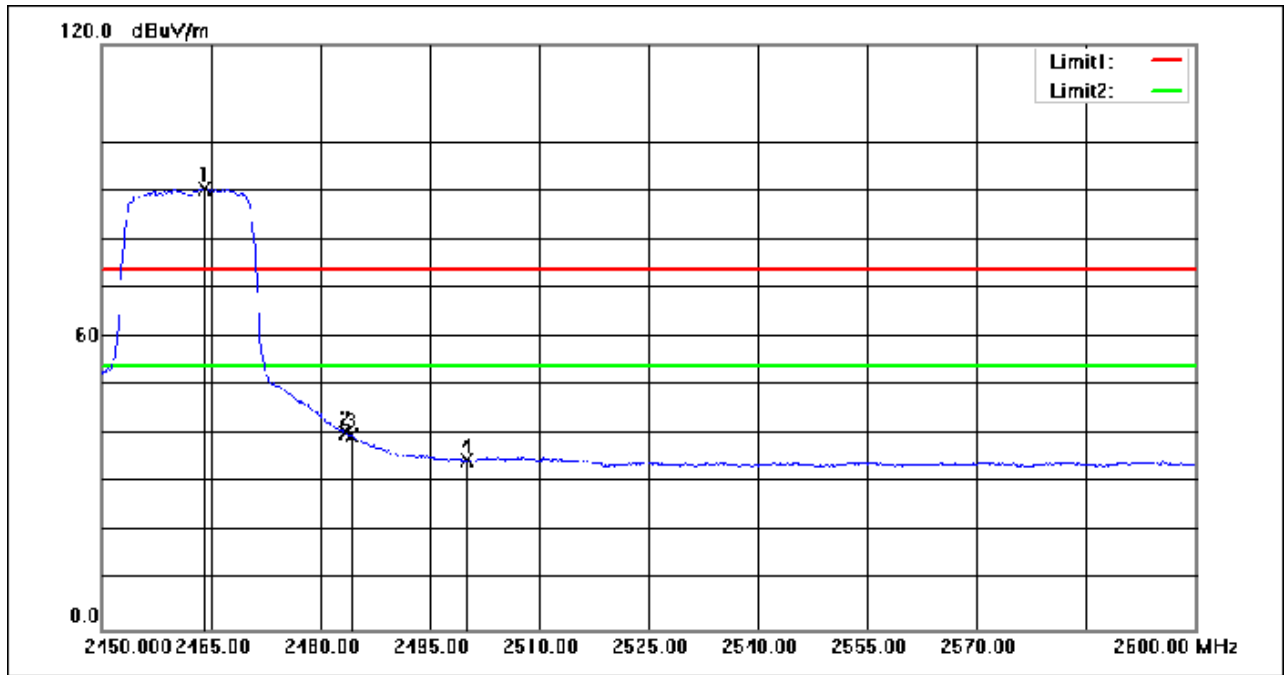
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2467.250	114.08	-13.76	100.32	74.00	26.32	peak
2	2483.500	73.91	-13.71	60.20	74.00	-13.80	peak
3	2486.600	70.51	-13.70	56.81	74.00	-17.19	peak
4	2500.000	59.57	-13.64	45.93	74.00	-28.07	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.100	104.20	-13.77	90.43	54.00	36.43	AVG
2	2483.500	53.91	-13.71	40.20	54.00	-13.80	AVG
3	2484.200	53.58	-13.70	39.88	54.00	-14.12	AVG
4	2500.000	48.42	-13.64	34.78	54.00	-19.22	AVG

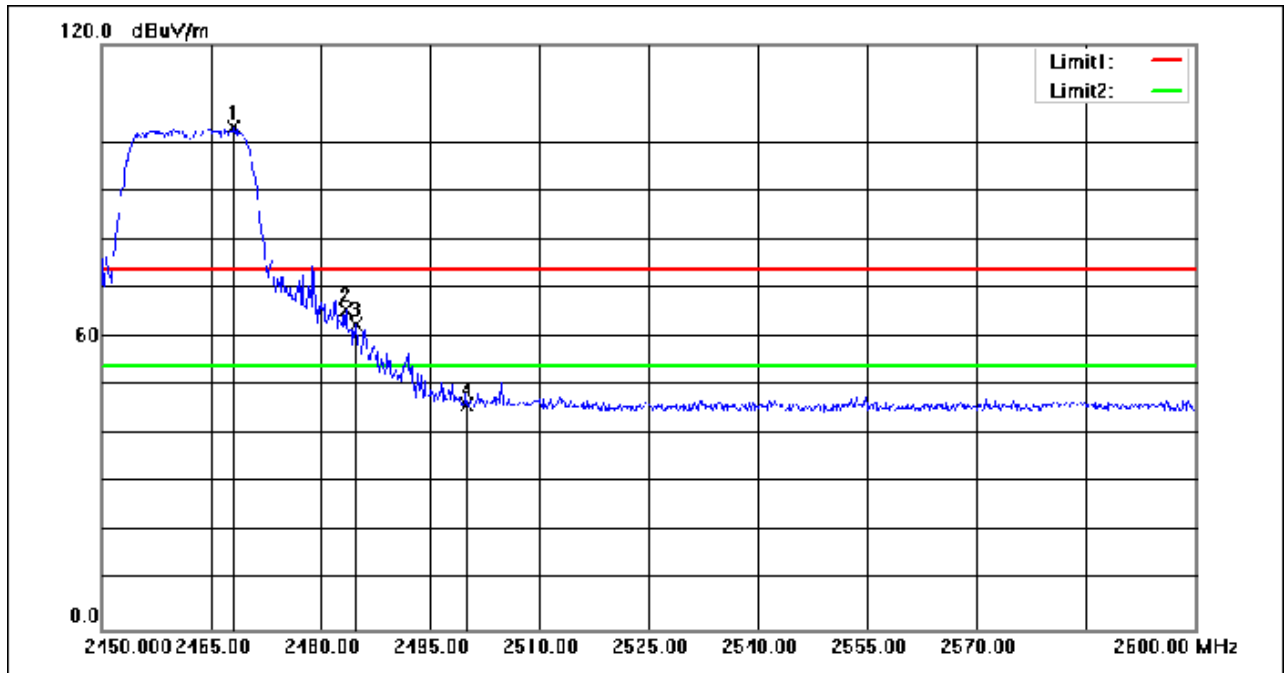


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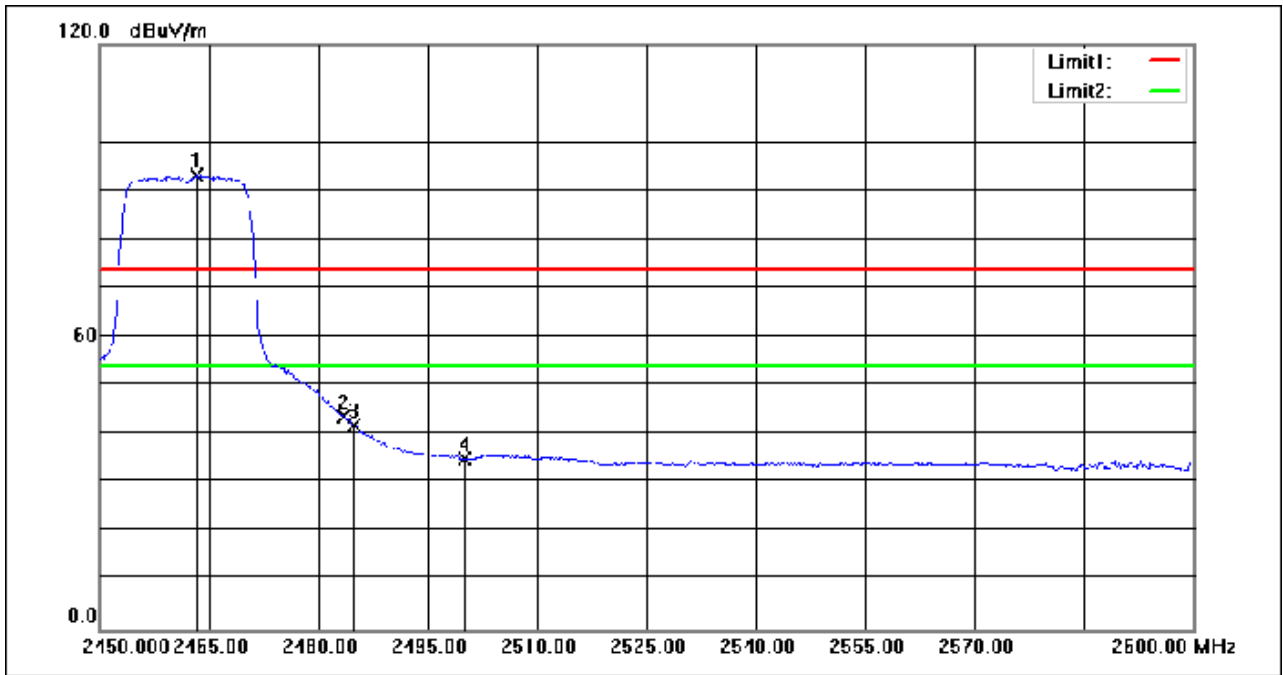


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2468.150	116.75	-13.75	103.00	74.00	29.00	peak
2	2483.500	79.38	-13.71	65.67	74.00	-8.33	peak
3	2484.950	76.25	-13.70	62.55	74.00	-11.45	peak
4	2500.000	59.67	-13.64	46.03	74.00	-27.97	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

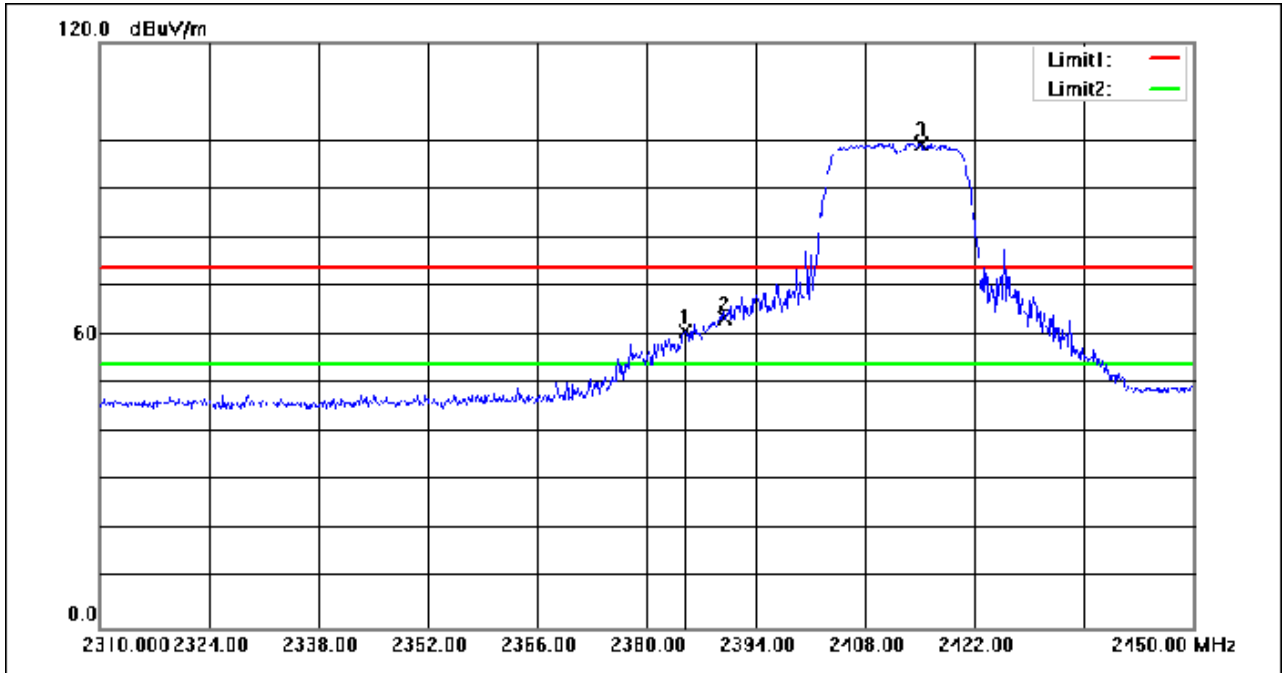


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.200	106.95	-13.78	93.17	54.00	39.17	AVG
2	2483.500	57.41	-13.71	43.70	54.00	-10.30	AVG
3	2484.950	55.67	-13.70	41.97	54.00	-12.03	AVG
4	2500.000	48.53	-13.64	34.89	54.00	-19.11	AVG



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



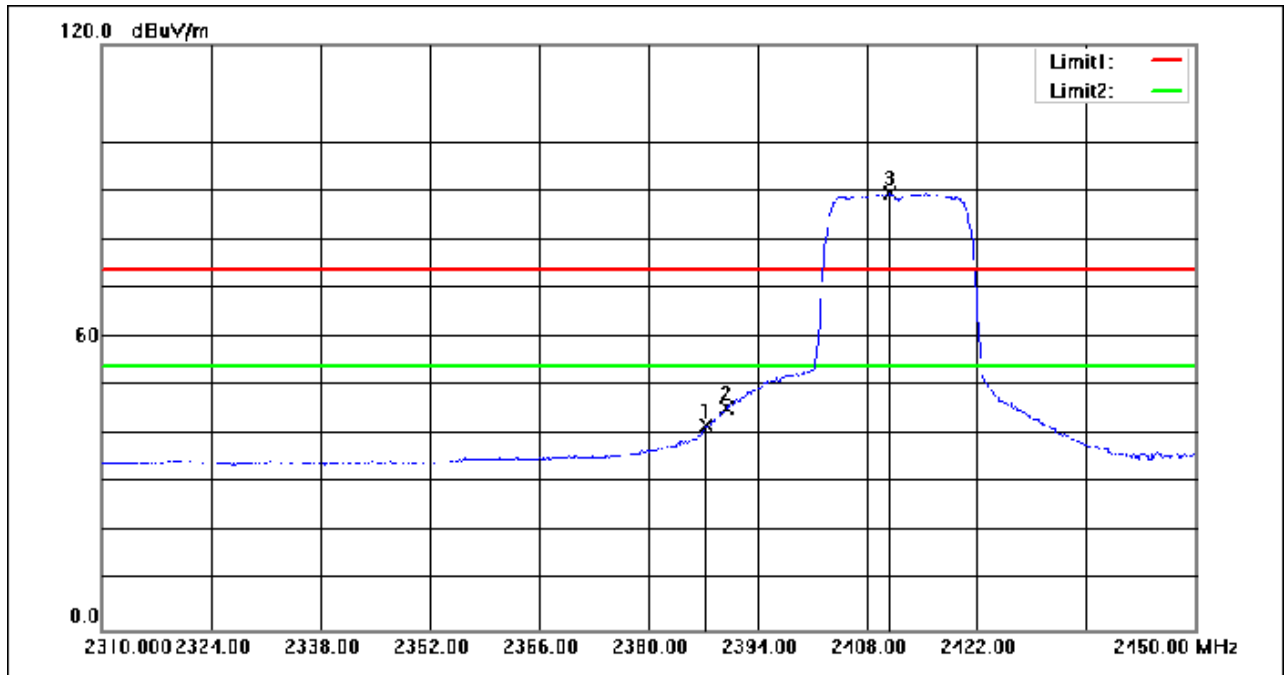
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.900	74.88	-14.03	60.85	74.00	-13.15	peak
2	2390.000	77.51	-14.01	63.50	74.00	-10.50	peak
3	2415.140	113.21	-13.93	99.28	74.00	25.28	peak



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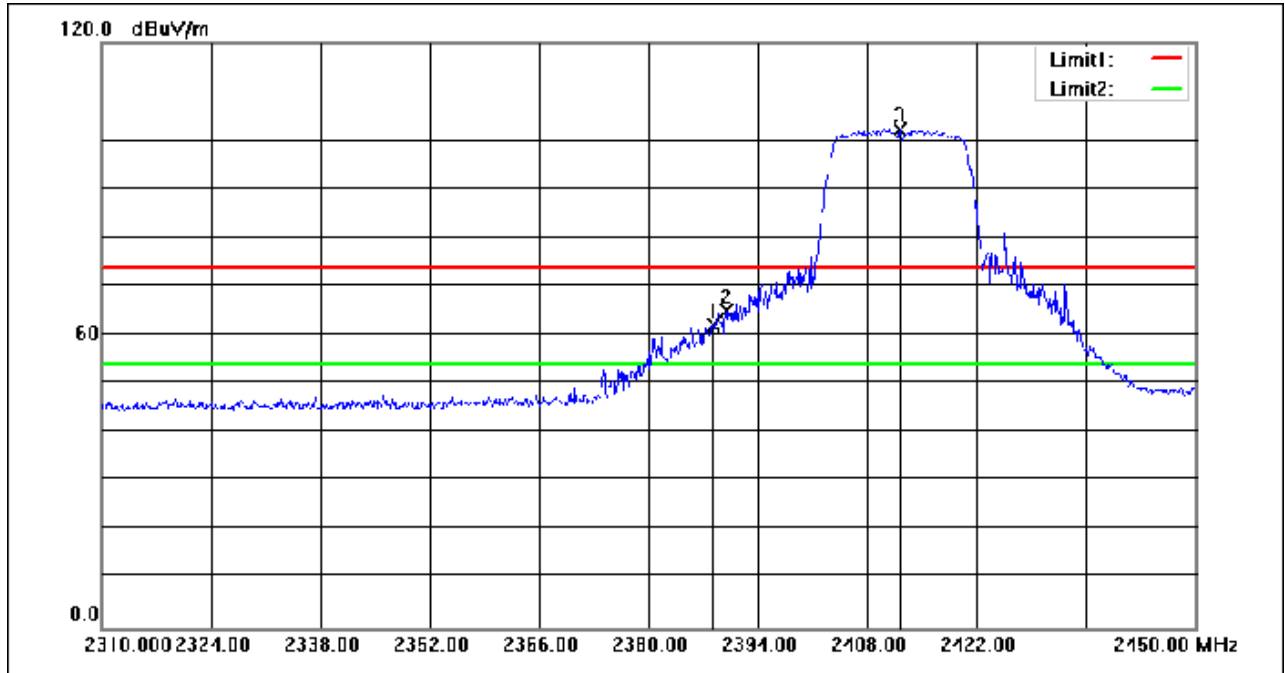


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.420	55.82	-14.02	41.80	54.00	-12.20	AVG
2	2390.000	59.47	-14.01	45.46	54.00	-8.54	AVG
3	2410.940	103.44	-13.94	89.50	54.00	35.50	AVG



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



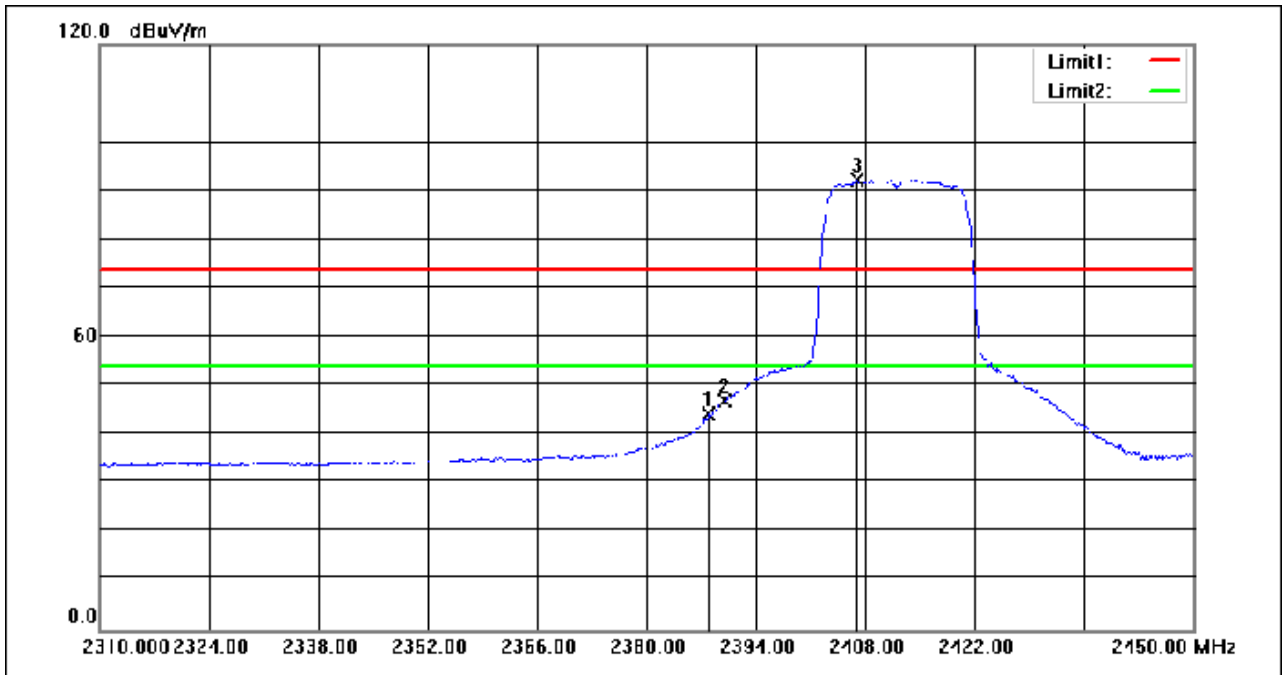
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.260	75.89	-14.01	61.88	74.00	-12.12	peak
2	2390.000	79.09	-14.01	65.08	74.00	-8.92	peak
3	2412.200	116.03	-13.94	102.09	74.00	28.09	peak



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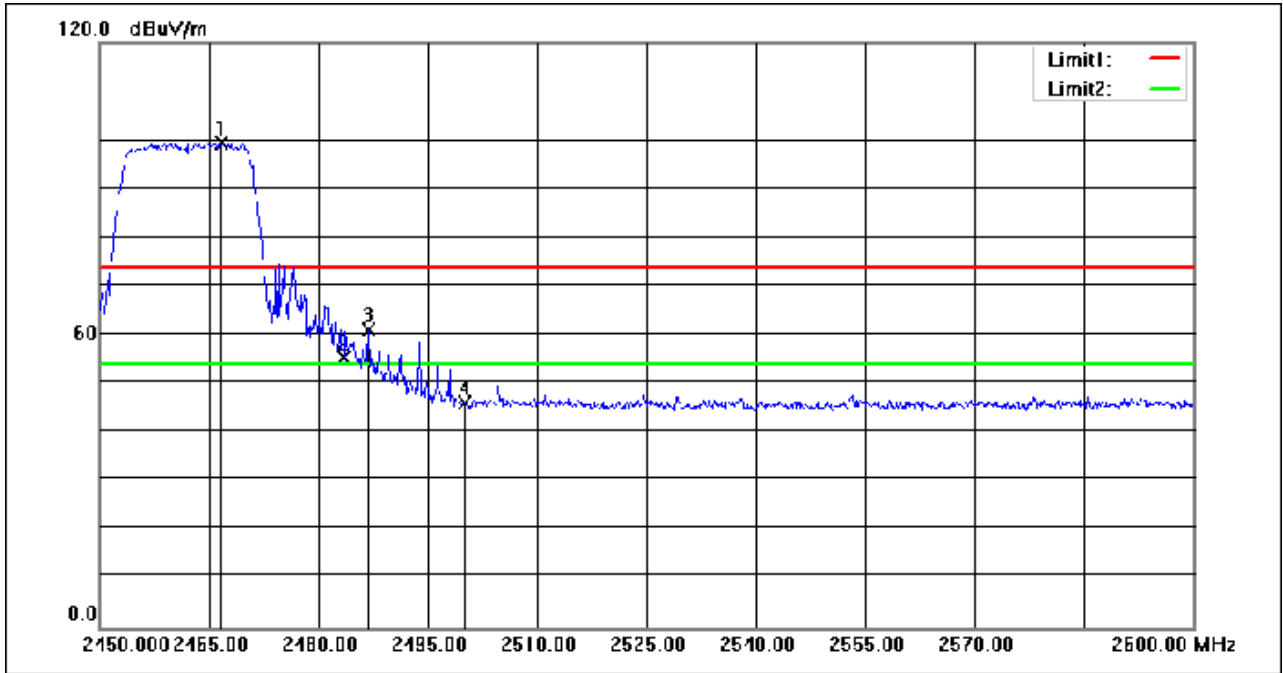


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.980	58.17	-14.02	44.15	54.00	-9.85	AVG
2	2390.000	60.82	-14.01	46.81	54.00	-7.19	AVG
3	2407.020	106.28	-13.95	92.33	54.00	38.33	AVG



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



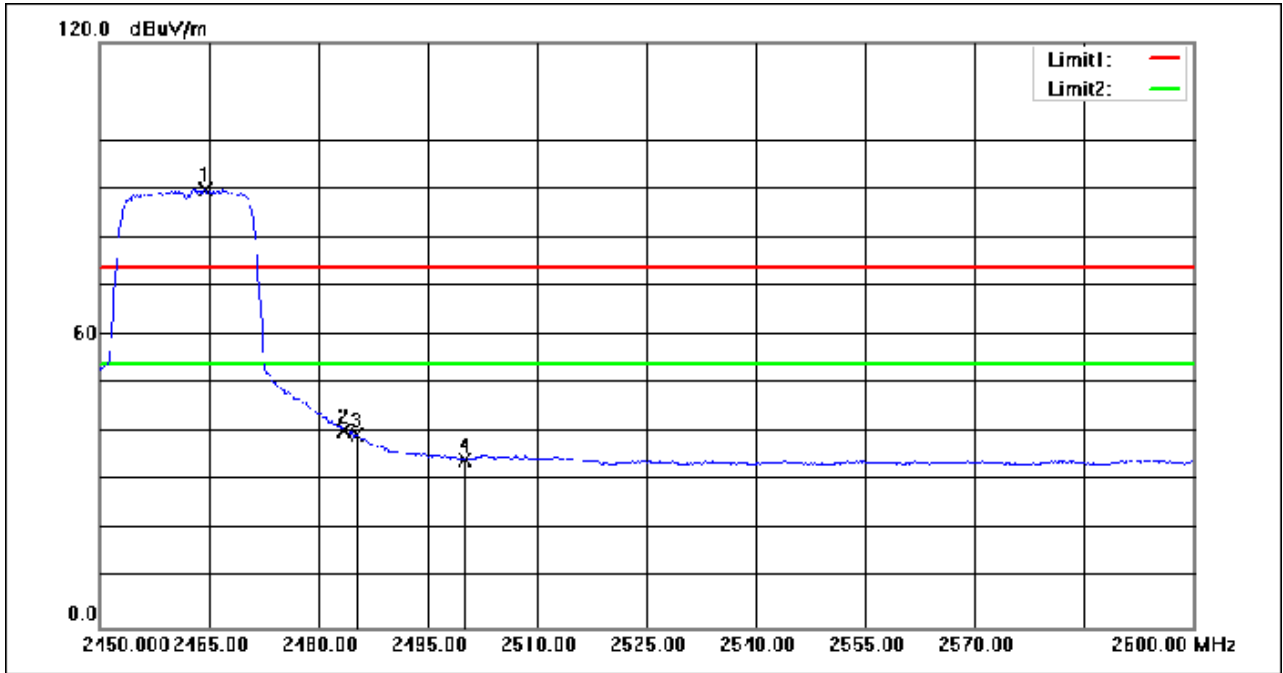
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2466.650	113.35	-13.76	99.59	74.00	25.59	peak
2	2483.500	69.19	-13.71	55.48	74.00	-18.52	peak
3	2486.900	74.78	-13.70	61.08	74.00	-12.92	peak
4	2500.000	59.67	-13.64	46.03	74.00	-27.97	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



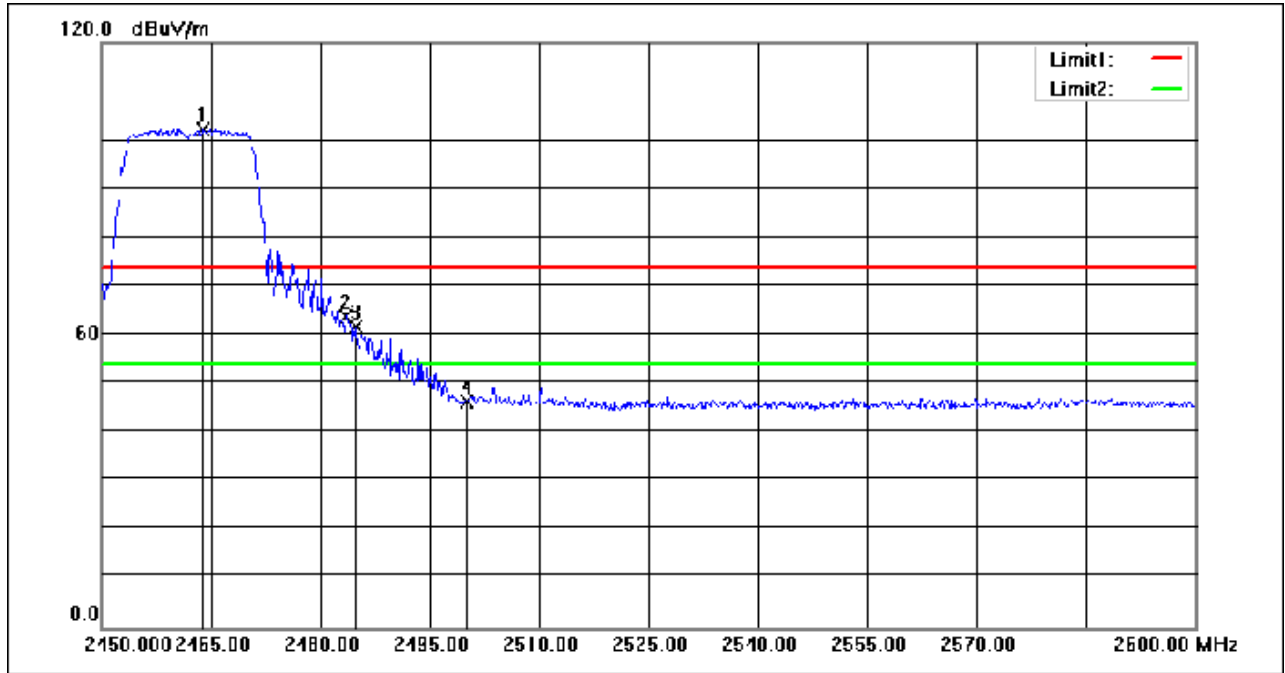
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.400	103.76	-13.77	89.99	54.00	35.99	AVG
2	2483.500	54.20	-13.71	40.49	54.00	-13.51	AVG
3	2485.250	53.17	-13.70	39.47	54.00	-14.53	AVG
4	2500.000	48.14	-13.64	34.50	54.00	-19.50	AVG



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



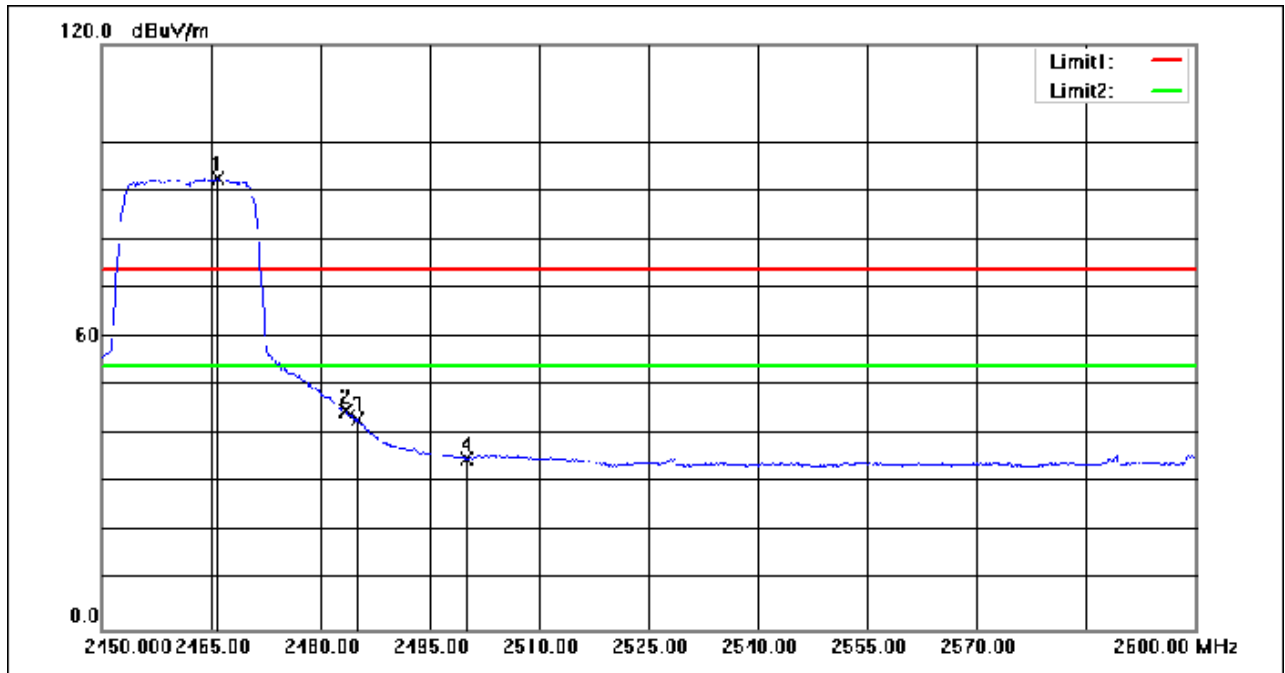
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.950	116.04	-13.77	102.27	74.00	28.27	peak
2	2483.500	77.34	-13.71	63.63	74.00	-10.37	peak
3	2484.800	75.23	-13.70	61.53	74.00	-12.47	peak
4	2500.000	59.85	-13.64	46.21	74.00	-27.79	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2465.900	106.23	-13.76	92.47	54.00	38.47	AVG
2	2483.500	58.64	-13.71	44.93	54.00	-9.07	AVG
3	2485.100	56.76	-13.70	43.06	54.00	-10.94	AVG
4	2500.000	48.61	-13.64	34.97	54.00	-19.03	AVG



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**7.8 Radiated Spurious Emissions Below 1GHz**

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
 Test Method: ANSI C63.10 (2013) Section 6.4,6.5  
 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
960-1000	500	3

**7.8.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 23.9 °C Humidity: 43.4 % RH Atmospheric Pressure: 1010 mbar

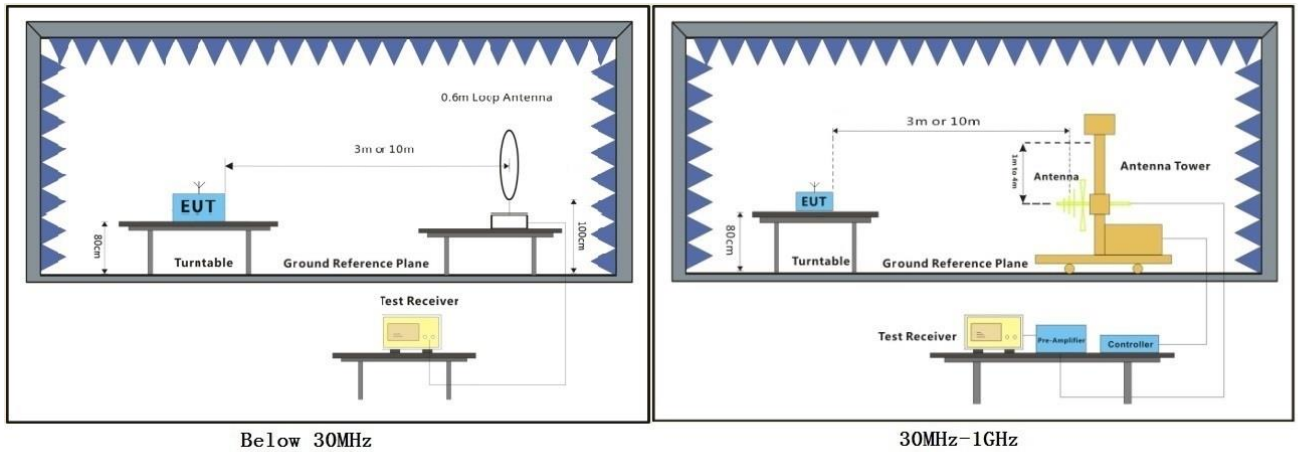
**7.8.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.



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**7.8.3 Test Setup Diagram**



**7.8.4 Measurement Procedure and Data**

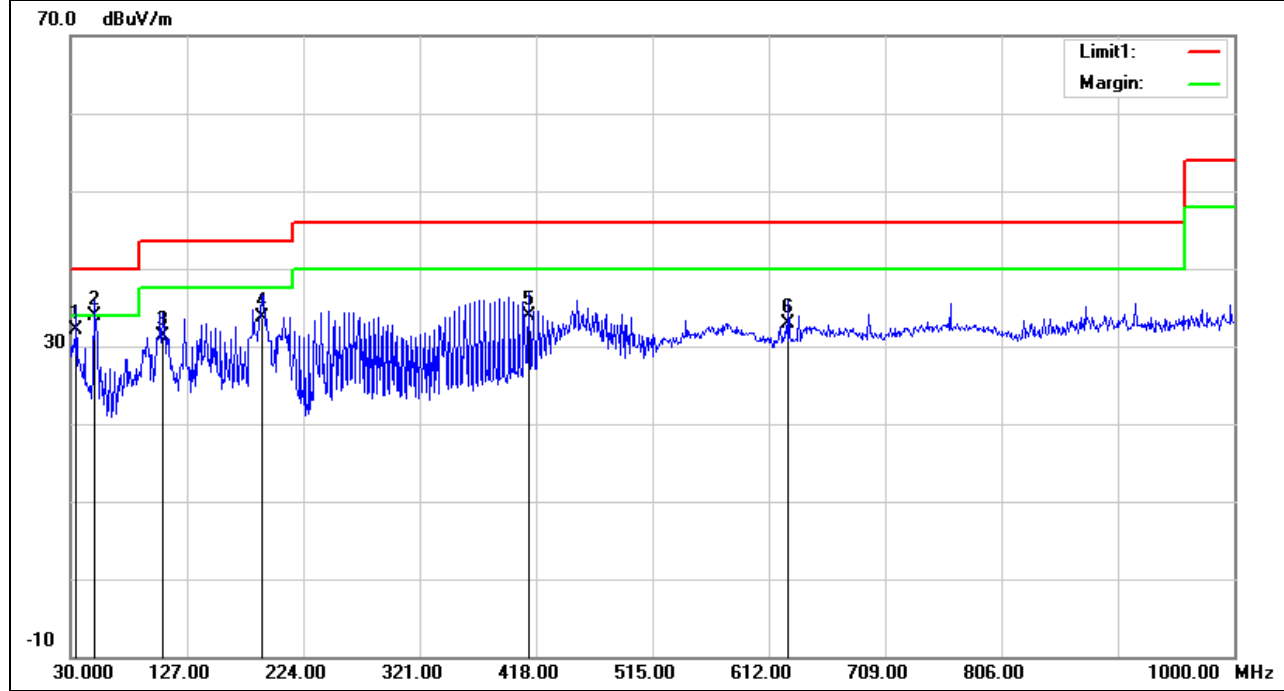
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance 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.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 00; Polarity: Horizontal



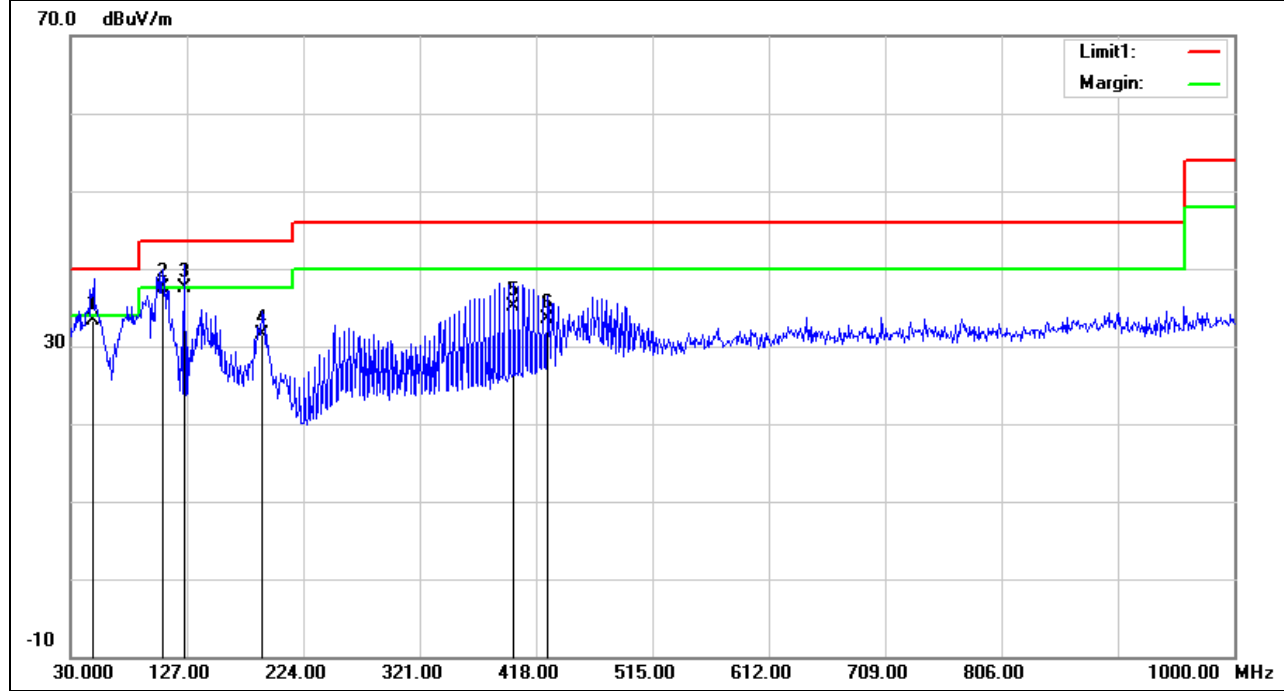
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	34.8500	7.51	24.67	32.18	40.00	-7.82	200	292	QP
2	49.4000	15.86	17.98	33.84	40.00	-6.16	200	289	QP
3	106.6300	13.27	18.05	31.32	43.50	-12.18	200	15	QP
4	189.0800	17.31	16.36	33.67	43.50	-9.83	100	29	QP
5	412.1800	10.00	23.90	33.90	46.00	-12.10	100	256	QP
6	628.4900	5.34	27.48	32.82	46.00	-13.18	200	292	QP



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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	48.8200	15.02	18.23	33.25	40.00	-6.75	100	148	QP
2	106.6900	19.52	18.05	37.57	43.50	-5.93	100	82	QP
3	125.0600	17.96	19.46	37.42	43.50	-6.08	100	302	QP
4	189.0800	15.17	16.36	31.53	43.50	-11.97	100	117	QP
5	399.5700	11.88	23.32	35.20	46.00	-10.80	100	359	QP
6	427.7000	9.56	23.94	33.50	46.00	-12.50	100	0	QP



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### 7.9 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

#### 7.9.1 E.U.T. Operation

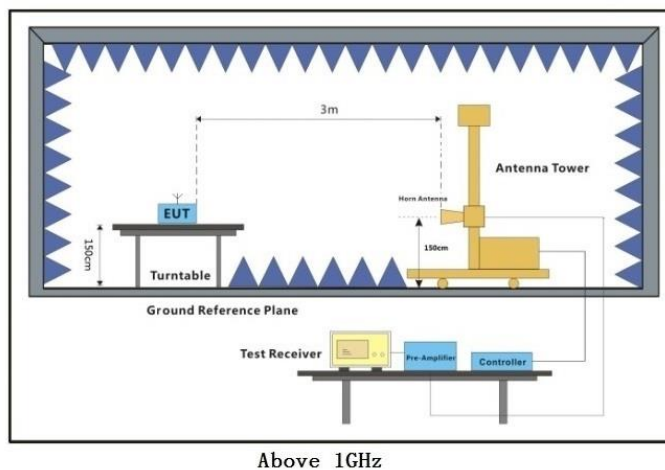
Operating Environment:

Temperature: 25.3 °C Humidity: 32.6 % RH Atmospheric Pressure: 1010 mbar

#### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); Only the data of worst case is recorded in the report.

#### 7.9.3 Test Setup Diagram



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**7.9.4 Measurement Procedure and Data**

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

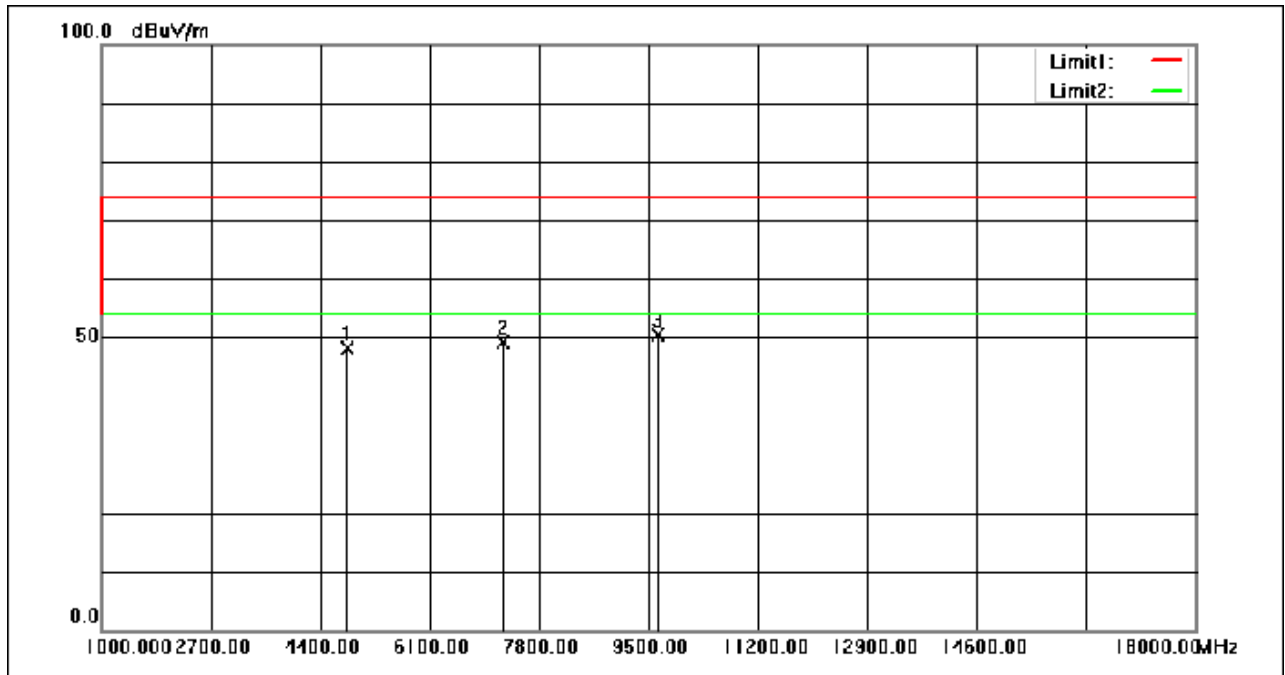
Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.
- 3. As shown in this section, 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.
- 4. For WLAN radiated test, according to the conducted power and verify test the SISO & MIMO mode, the worst-case is SISO mode for 802.11b/g, MIMO mode for 802.11n, therefore, all final test are performed in SISO & MIMO mode and reported.





Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



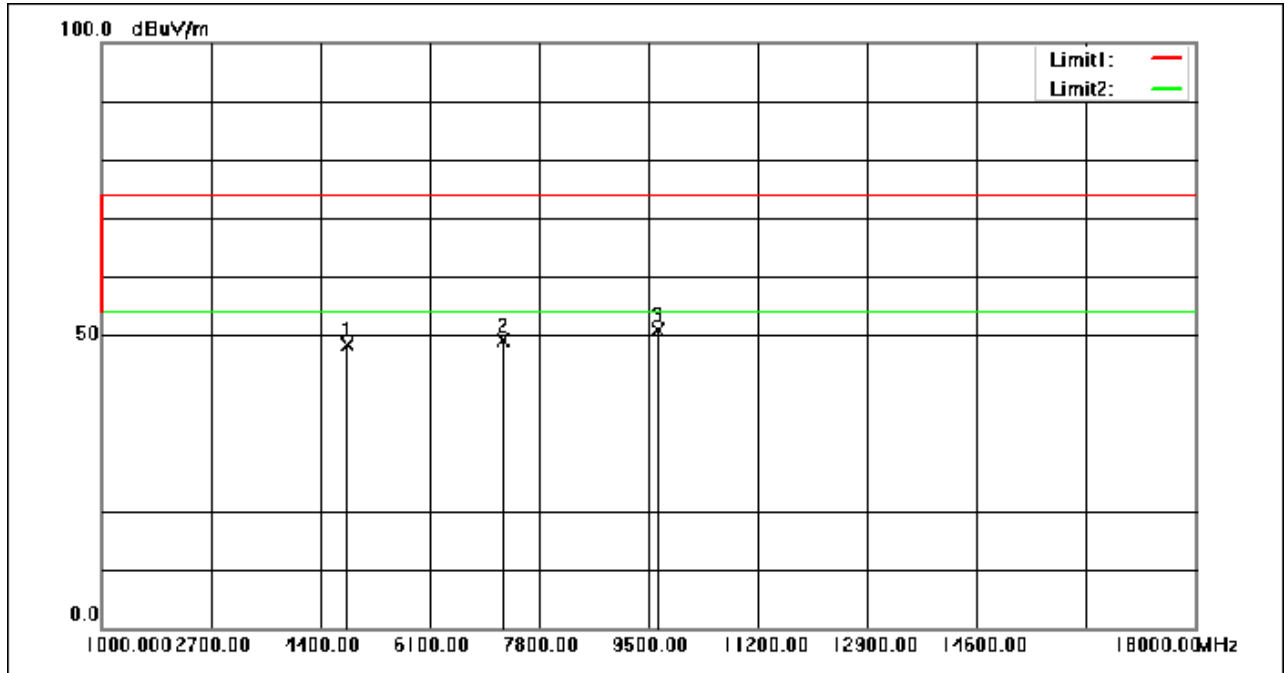
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	59.29	-11.21	48.08	74.00	-25.92	peak
2	7236.000	53.21	-4.02	49.19	74.00	-24.81	peak
3	9648.000	50.68	-0.37	50.31	74.00	-23.69	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



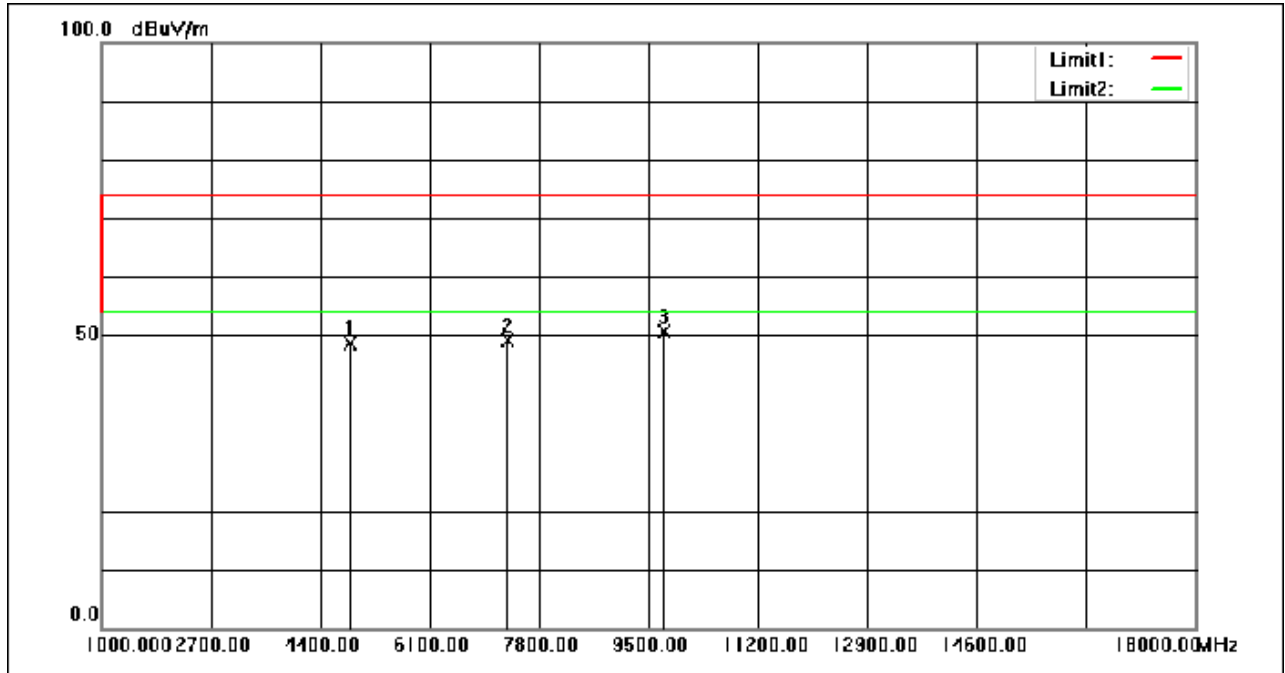
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	59.61	-11.21	48.40	74.00	-25.60	peak
2	7236.000	53.12	-4.02	49.10	74.00	-24.90	peak
3	9648.000	51.22	-0.37	50.85	74.00	-23.15	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



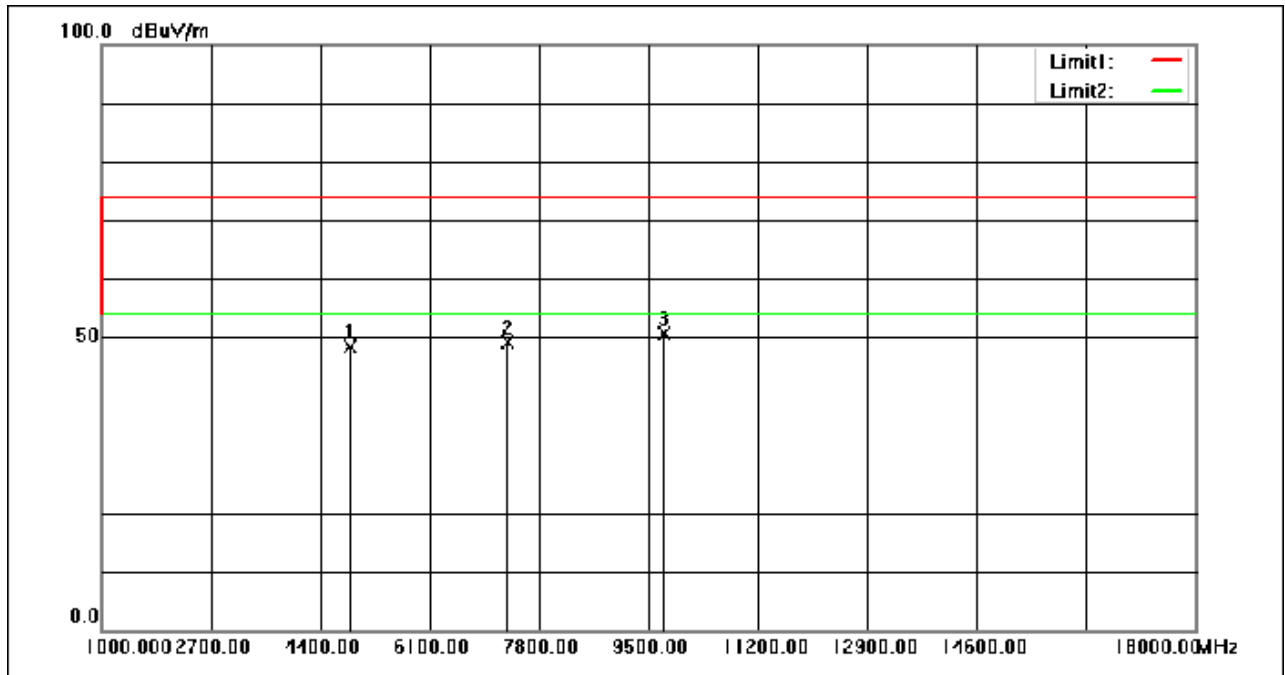
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	59.63	-10.95	48.68	74.00	-25.32	peak
2	7311.000	53.06	-3.97	49.09	74.00	-24.91	peak
3	9748.000	50.79	-0.08	50.71	74.00	-23.29	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



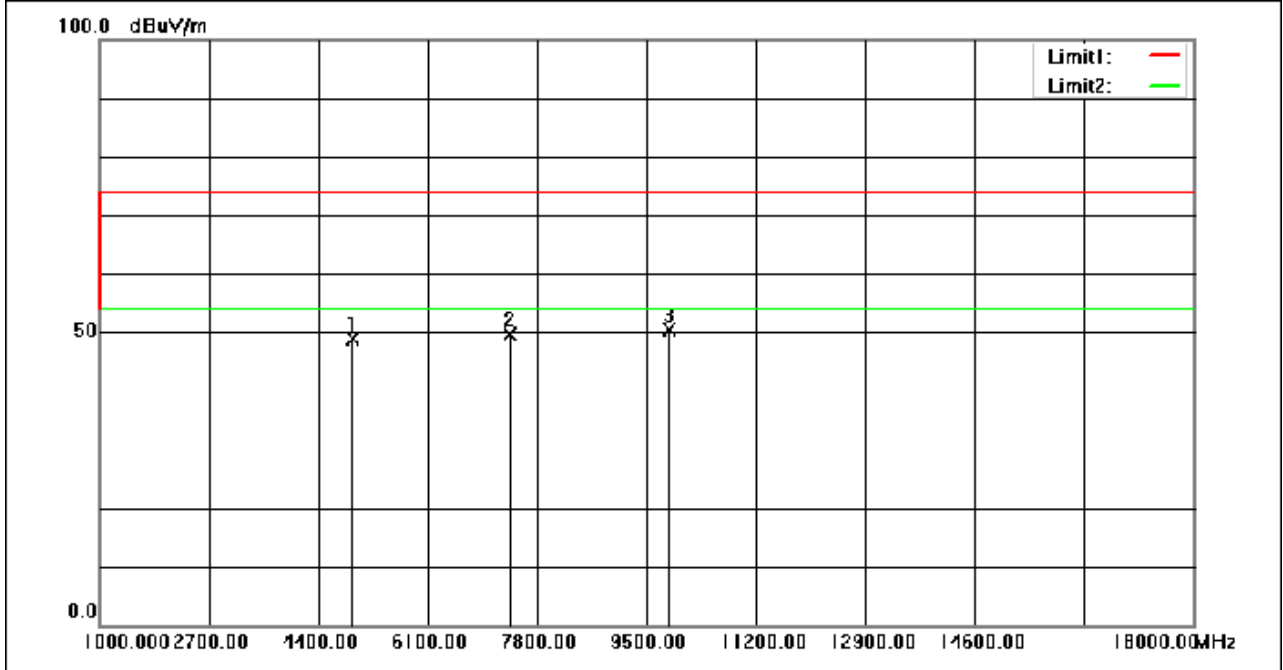
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	59.22	-10.95	48.27	74.00	-25.73	peak
2	7311.000	53.14	-3.97	49.17	74.00	-24.83	peak
3	9748.000	50.71	-0.08	50.63	74.00	-23.37	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

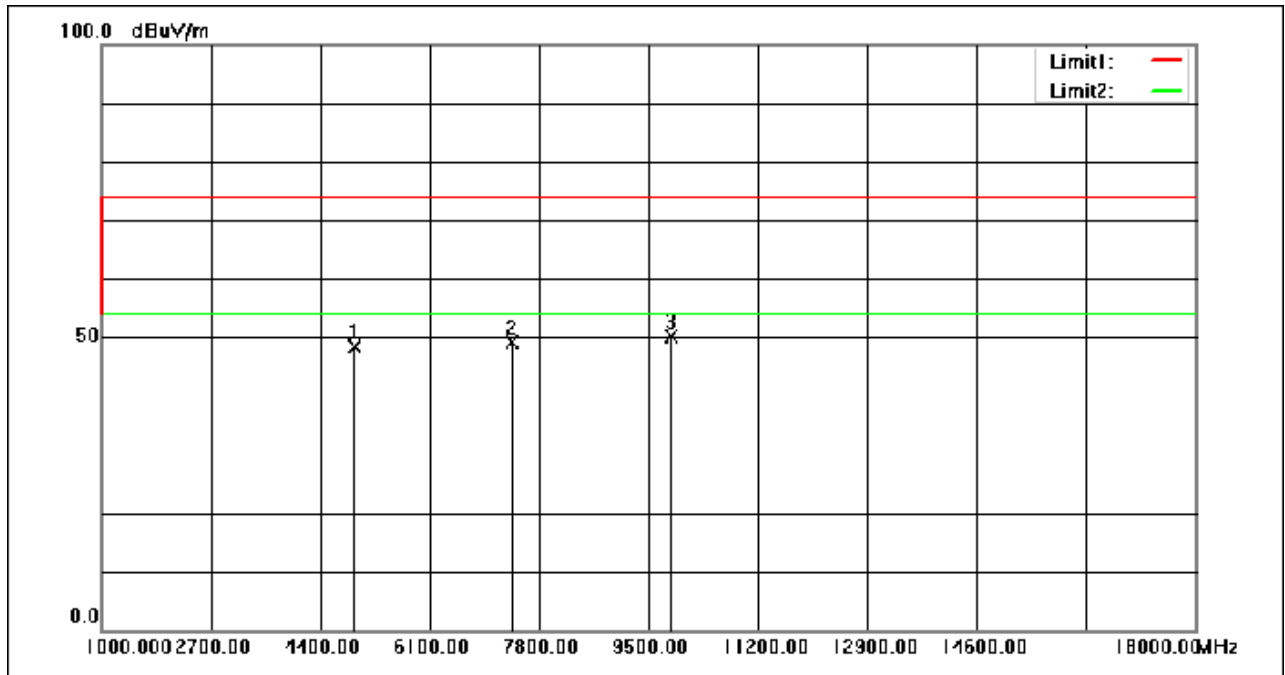


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	59.54	-10.68	48.86	74.00	-25.14	peak
2	7386.000	53.56	-3.92	49.64	74.00	-24.36	peak
3	9848.000	50.17	0.21	50.38	74.00	-23.62	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



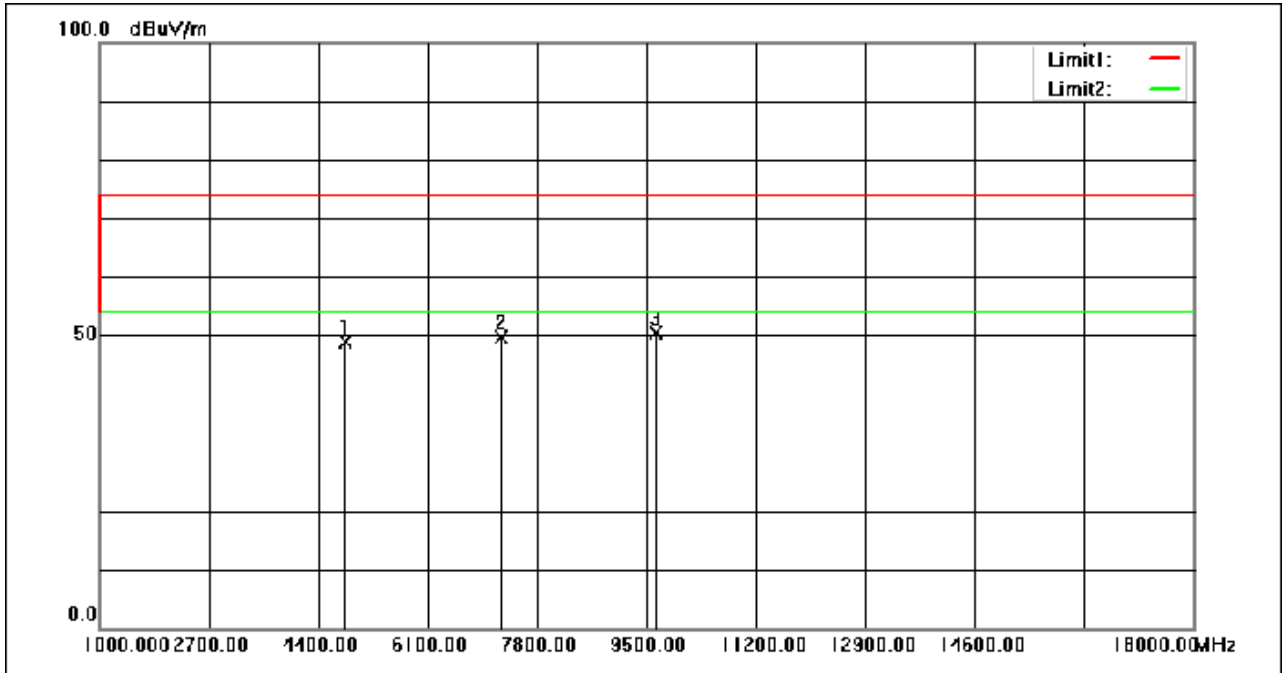
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	59.02	-10.68	48.34	74.00	-25.66	peak
2	7386.000	53.11	-3.92	49.19	74.00	-24.81	peak
3	9848.000	49.83	0.21	50.04	74.00	-23.96	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



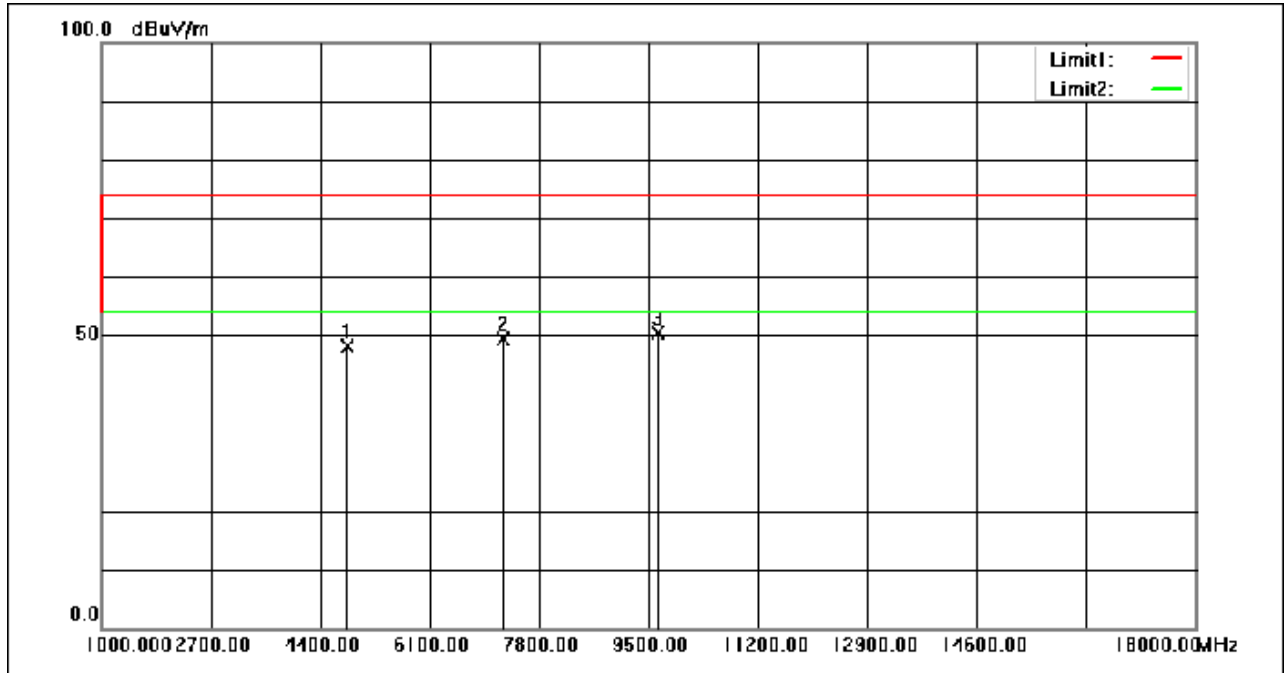
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	59.98	-11.21	48.77	74.00	-25.23	peak
2	7236.000	53.76	-4.02	49.74	74.00	-24.26	peak
3	9648.000	50.71	-0.37	50.34	74.00	-23.66	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	59.42	-11.21	48.21	74.00	-25.79	peak
2	7236.000	53.36	-4.02	49.34	74.00	-24.66	peak
3	9648.000	50.84	-0.37	50.47	74.00	-23.53	peak

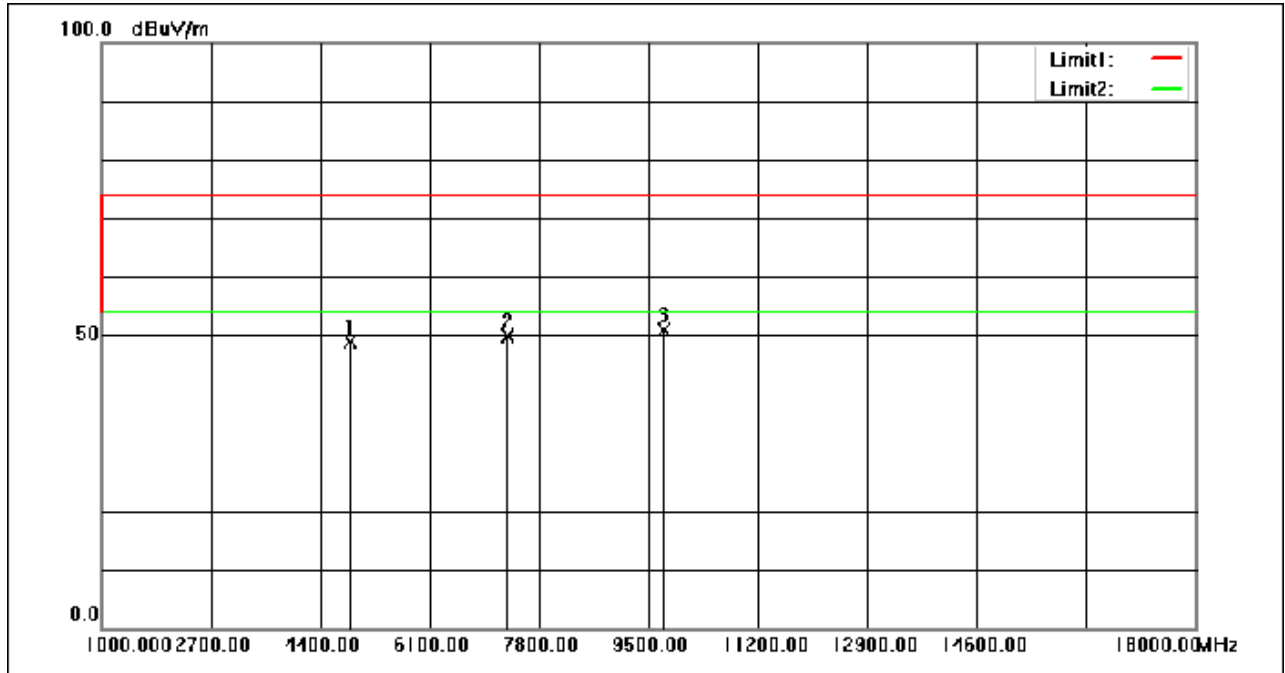


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



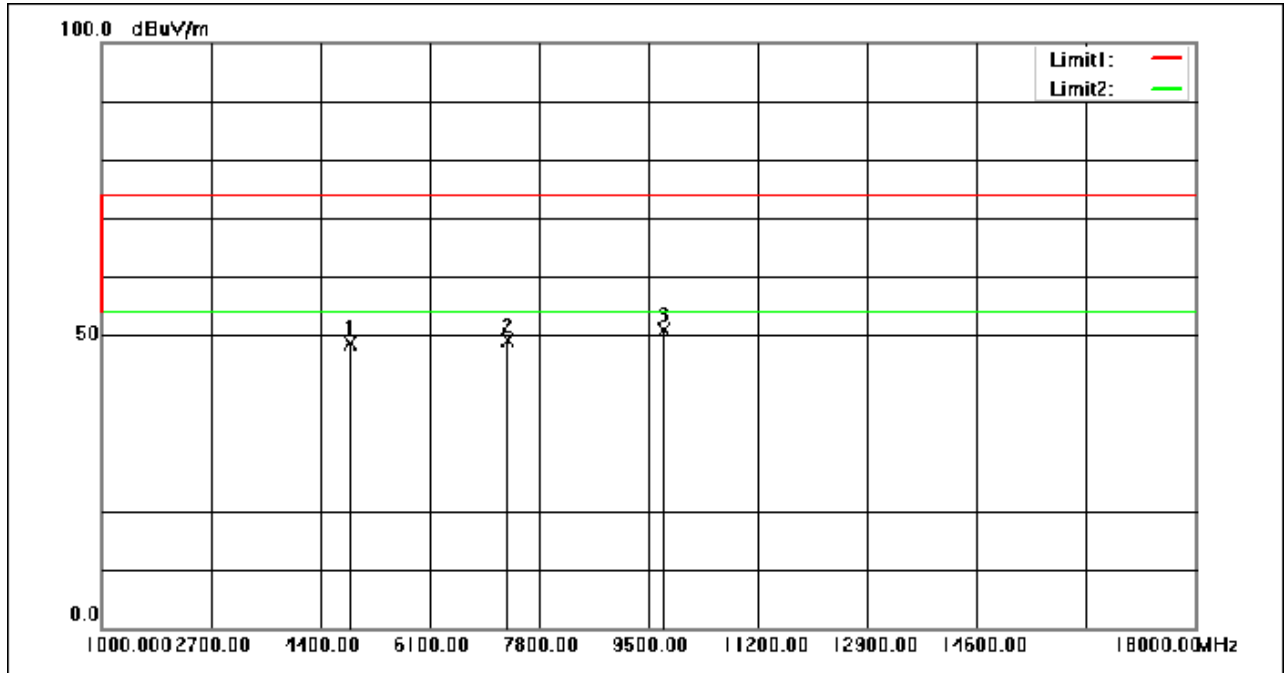
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	59.81	-10.95	48.86	74.00	-25.14	peak
2	7311.000	53.88	-3.97	49.91	74.00	-24.09	peak
3	9748.000	50.87	-0.08	50.79	74.00	-23.21	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



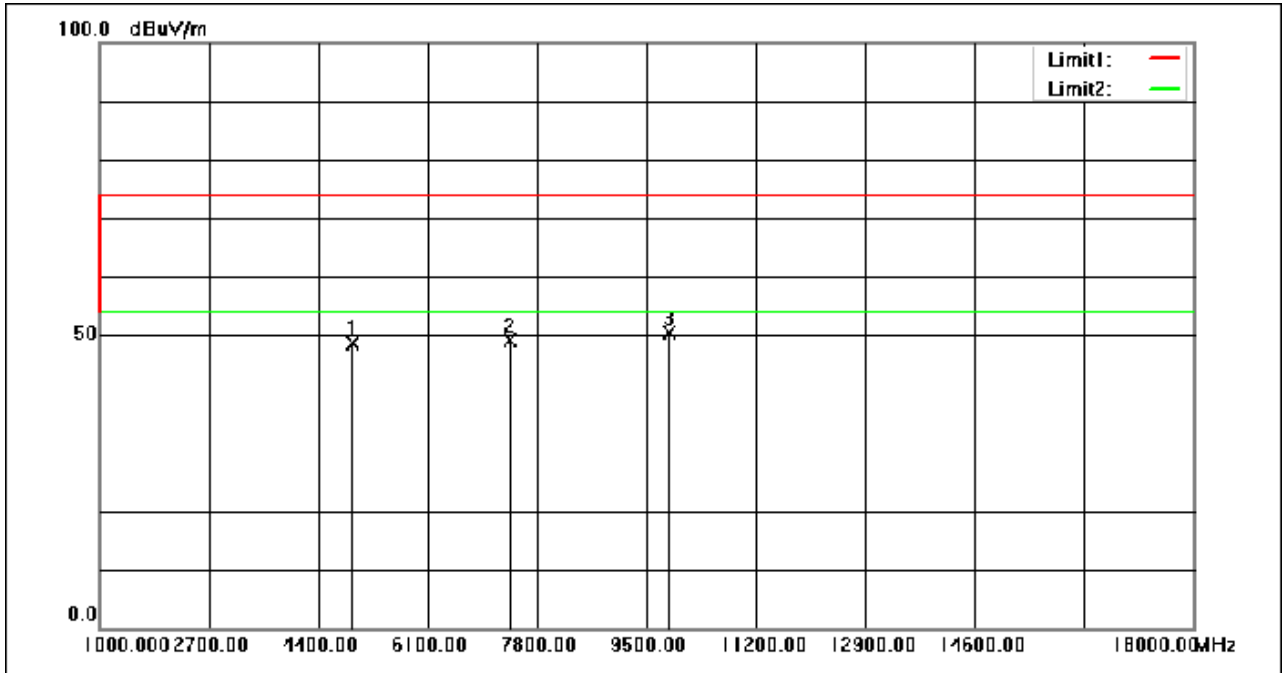
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	59.61	-10.95	48.66	74.00	-25.34	peak
2	7311.000	53.17	-3.97	49.20	74.00	-24.80	peak
3	9748.000	50.91	-0.08	50.83	74.00	-23.17	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



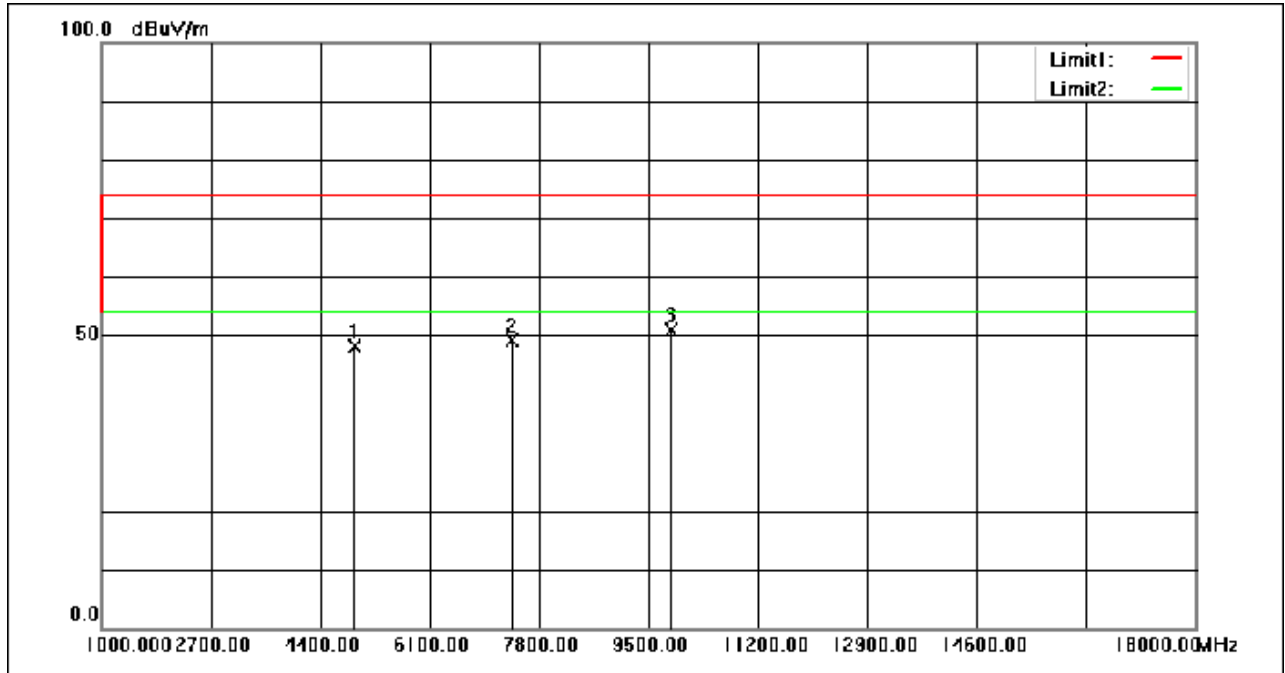
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	59.29	-10.68	48.61	74.00	-25.39	peak
2	7386.000	53.10	-3.92	49.18	74.00	-24.82	peak
3	9848.000	50.17	0.21	50.38	74.00	-23.62	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



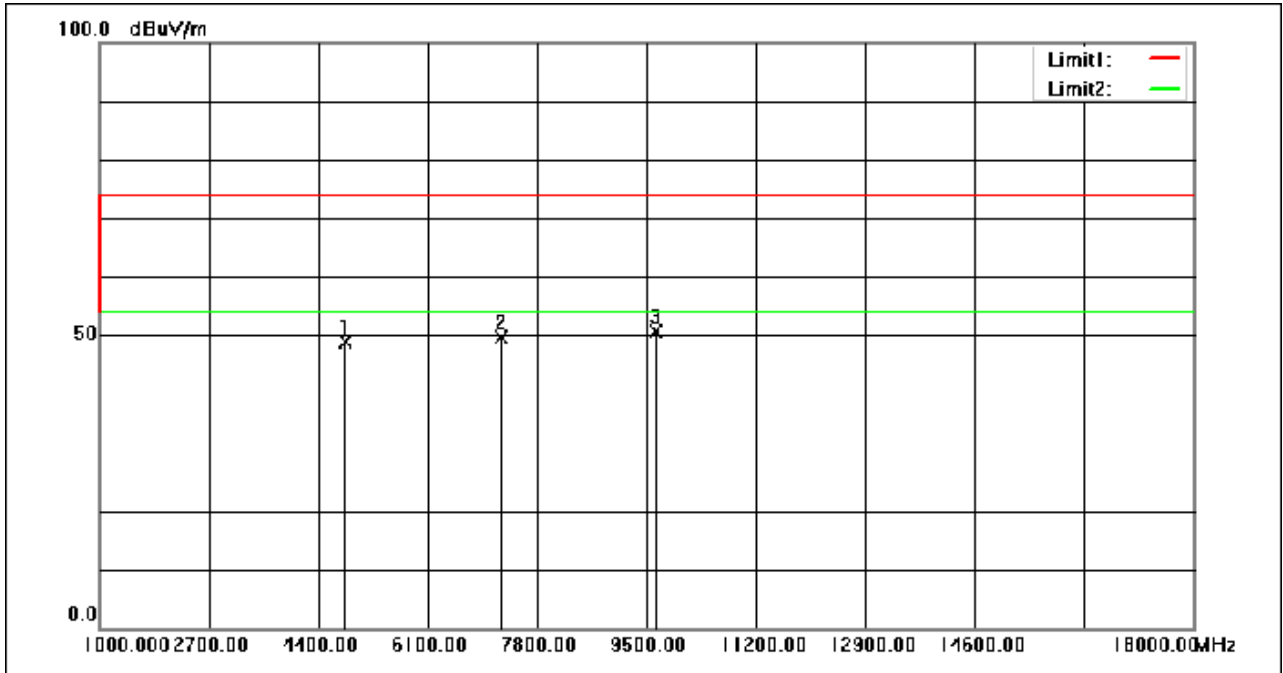
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	58.79	-10.68	48.11	74.00	-25.89	peak
2	7386.000	53.12	-3.92	49.20	74.00	-24.80	peak
3	9848.000	50.64	0.21	50.85	74.00	-23.15	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



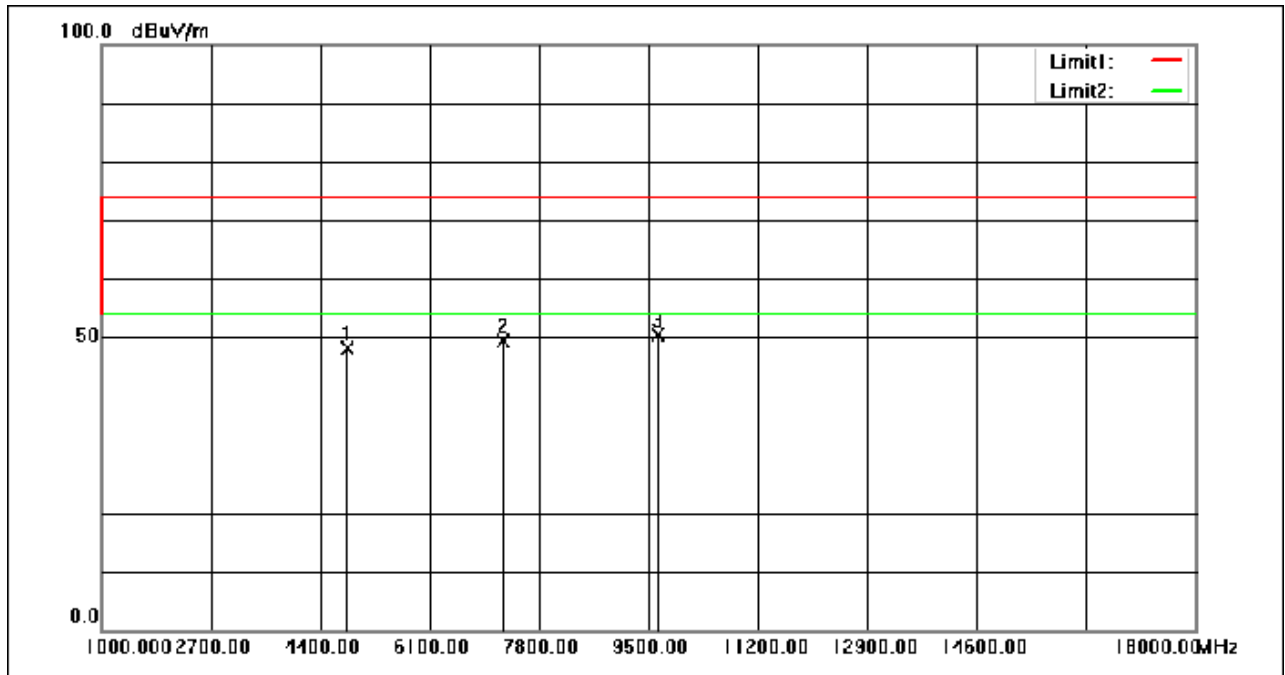
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	59.99	-11.21	48.78	74.00	-25.22	peak
2	7236.000	53.77	-4.02	49.75	74.00	-24.25	peak
3	9648.000	50.91	-0.37	50.54	74.00	-23.46	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



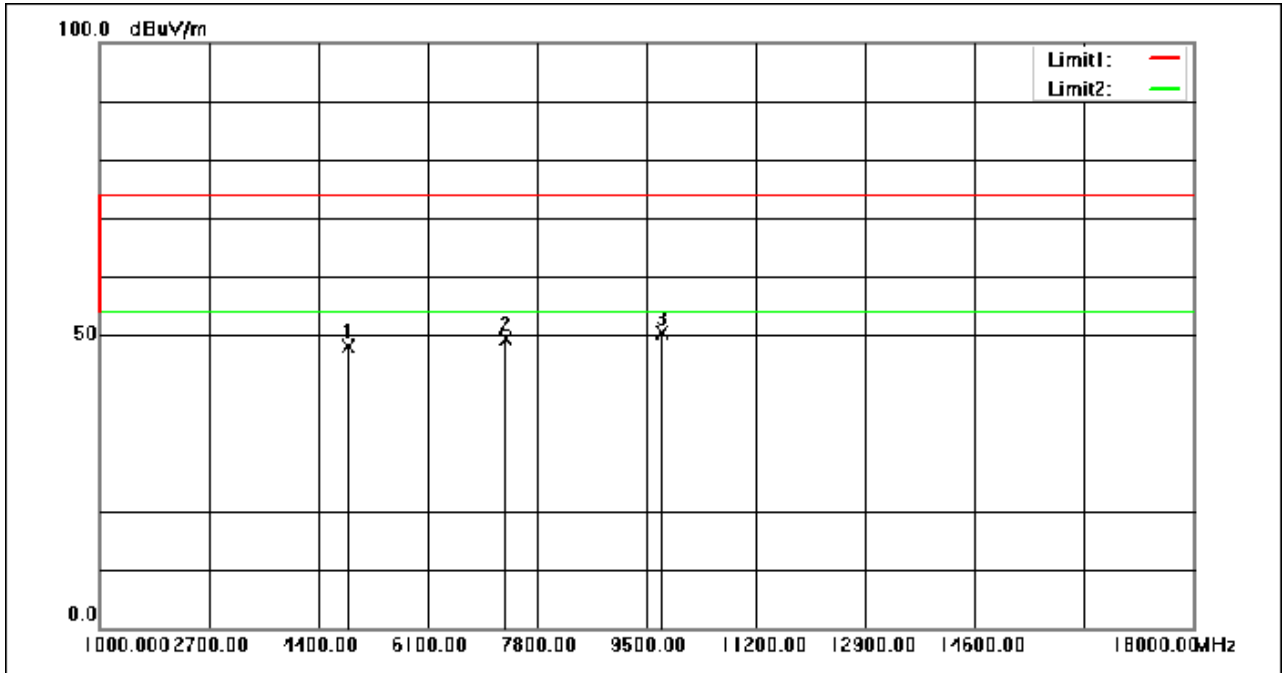
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	59.35	-11.21	48.14	74.00	-25.86	peak
2	7236.000	53.33	-4.02	49.31	74.00	-24.69	peak
3	9648.000	50.81	-0.37	50.44	74.00	-23.56	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



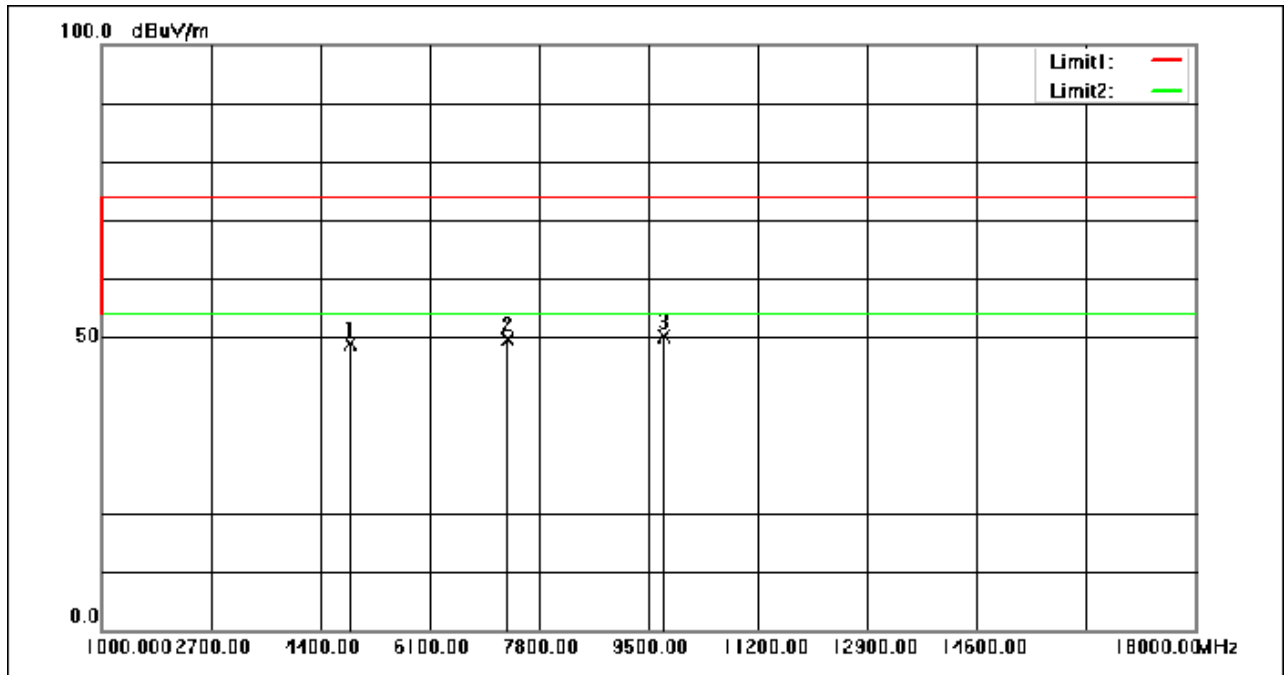
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	58.99	-10.95	48.04	74.00	-25.96	peak
2	7311.000	53.26	-3.97	49.29	74.00	-24.71	peak
3	9748.000	50.43	-0.08	50.35	74.00	-23.65	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	59.84	-10.95	48.89	74.00	-25.11	peak
2	7311.000	53.70	-3.97	49.73	74.00	-24.27	peak
3	9748.000	50.27	-0.08	50.19	74.00	-23.81	peak

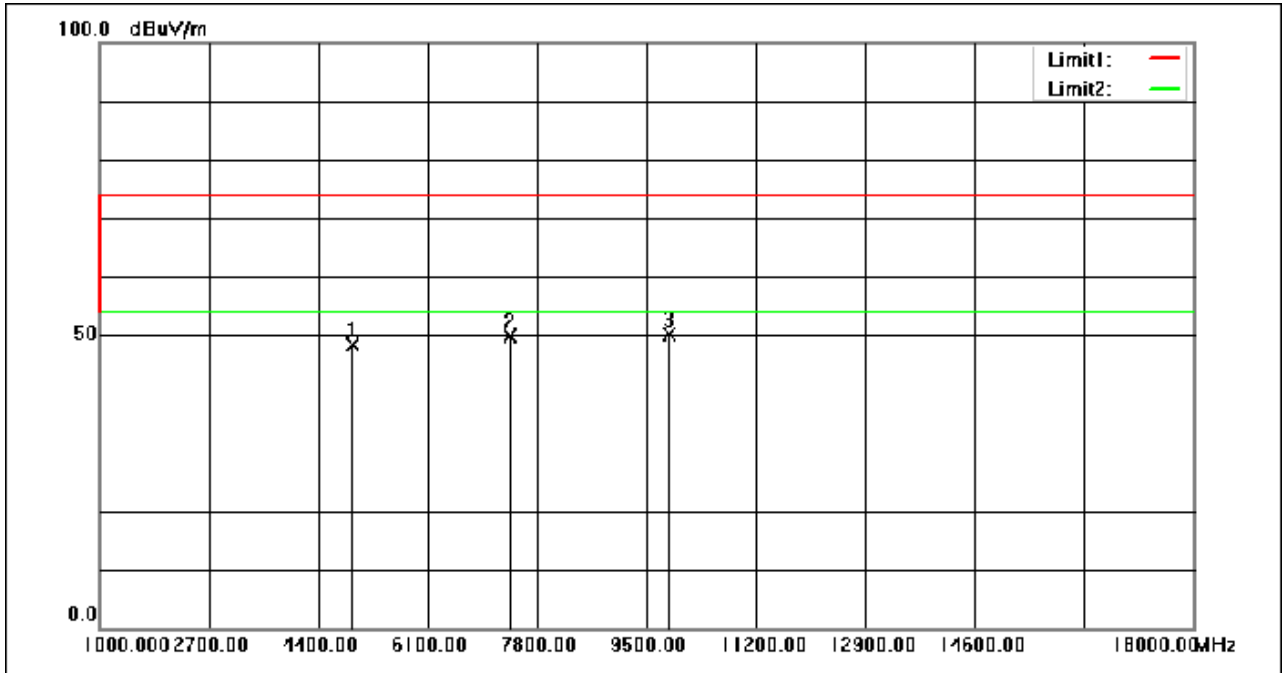


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



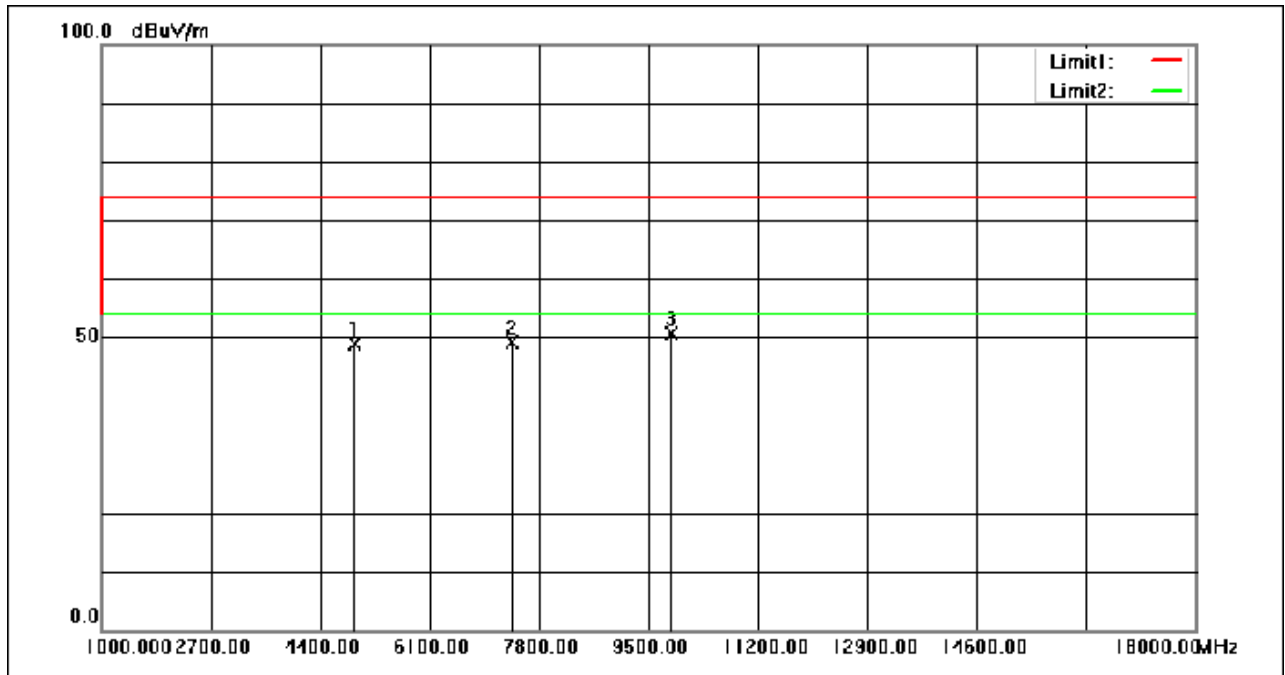
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	58.95	-10.68	48.27	74.00	-25.73	peak
2	7386.000	53.82	-3.92	49.90	74.00	-24.10	peak
3	9848.000	50.03	0.21	50.24	74.00	-23.76	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	59.61	-10.68	48.93	74.00	-25.07	peak
2	7386.000	53.15	-3.92	49.23	74.00	-24.77	peak
3	9848.000	50.36	0.21	50.57	74.00	-23.43	peak



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2204000850AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2204000850AT

- End of the Report -



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