

Report No.: SHEM210500493402 Page: 1 of 126

# **TEST REPORT**

Application No.:	SHEM2105004934CR
FCC ID:	SVN-WR5210-IDC
Applicant:	ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
Address of Applicant:	No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Manufacturer:	ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
Address of Manufacturer:	No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Equipment Under Test (EU	Т):
EUT Name:	Wireless Router
Model No.:	DH-WR5210-IDC, DH-WR5200-IDC, WR5210-IDC, WR5200-IDC¤
<b>¤</b>	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2021-05-27
Date of Test:	2021-06-04 to 2021-06-14
Date of Issue:	2021-06-15
Test Result:	Pass*

\* In the configuration tested, the EUT complied with the standards specified above.

parlan share

Parlam Zhan Laboratory Manager

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



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Revision Record							
Version Description Date Remark							
00	Original	2021-06-15	1				

Authorized for issue by:		
	pichal Nic	
	Micheal Niu / Project Engineer	
	pour lam zhan	
	Parlam Zhan / Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement					
ltem	Requirement	Result			
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass	
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass	

N/A: Not applicable

Radio Spectrum Matter Part					
Item Standard		Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass	
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass	
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass	
Minimum 6 dB bandwidth (5.725- 5.85 GHz band )	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass	
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass	
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass	
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass	

N/A: Not applicable

#### Declaration of EUT Family Grouping:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DH-WR5210-IDC was tested since their differences were the model number, trade name, Color and appearance.



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#### **General Information** 4

4.1	Details of E.U.T.	
	Power supply:	AC 100-240V~50/60Hz by adapter
		Adapter:
		MANUFACTURER: SHENZHEN TRANSIN TECHNOLOGIES Co., LTD
		MODEL: TS-A012-120100A1
		INPUT: 100-240V~50/60Hz 0.4A
		OUTPUT: DC 12.0V 1.0A
	Test voltage:	AC 120V/60Hz
	Antenna Gain:	Ant 1:5dBi (Provided by the manufacturer)
		Ant 2:5dBi (Provided by the manufacturer)
		Directional gain:8.01dBi
	Antenna Type:	Antenna1: Dipole Antenna
		Antenna2: Dipole Antenna

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4
		802.11n(HT40)/ac(HT40)	5190-5230	2
		802.11ac(HT80)	5210	1
	UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5
		802.11n(HT40)/ac(HT40)	5755-5795	2
		802.11ac(HT80)	5775	1
Modulation Type:	802.11a: OFDM	(64QAM, 16QAM, QPSK, BPSK)		
	802.11n: OFDM	(BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac: OFDM	I (BPSK, QPSK, 16QAM, 64QAM, 25	6QAM)	
Channel Spacing:	802.11a/n(HT20)	)/ac(HT20): 20MHz		
	802.11n(HT40)/ac(HT40): 40MHz			
	802.11ac(HT80)	: 80MHz		



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Selected Test Channel for 802.11a/n(HT20)/ac(HT20)					
Band	Frequency				
	The lowest channel (CH36)	5180MHz			
U-NII Band I	The middle channel (CH40)	5200MHz			
	The highest channel (CH48)	5240MHz			
	The lowest channel (CH149)	5745MHz			
U-NII Band III	The middle channel (CH157)	5785MHz			
	The highest channel (CH165)	5825MHz			

Selected Test Channel for 802.11n(HT40)/ac(HT40)				
Band	Frequency			
U-NII Band I	The lowest channel (CH38)	5190MHz		
	The highest channel (CH46)	5230MHz		
	The lowest channel (CH151)	5755MHz		
U-NII Band III	The highest channel (CH159)	5795MHz		

Selected Test Channel for 802.11ac(HT80)				
Band	Channel	Frequency		
U-NII Band I	One channel (CH42)	5210MHz		
U-NII Band III	One channel (CH155)	5775MHz		



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## 4.2 Power level setting using in test

		1a	11n20 1		11a	lac20	
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
36	100	100	87	83	87	83	
40	100	100	87	83	87	83	
48	102	100	87	83	87	83	
149	97	95	81	78	81	78	
157	97	95	81	78	81	78	
165	97	95	81	78	81	78	
	11n40		11ac40				
Channel	Ant 1	Ant 2	Ant 1	Ant 2			
38	87	83	87	83			
46	87	83	87	83			
151	81	78	81	78			
159	81	78	81	78			
	11ac80						
Channel	Ant 1	Ant 2					
42	85	83					
155	80	77					

## 4.3 Description of Support Units

Description	Description Manufacturer		Serial No.	
Note Book	Acer	ZQT	NXM0QCN01031403EE876	



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## 4.4 Measurement Uncertainty

. Item Measurement Uncertain	
Radio Frequency	8.4 x 10 <sup>-8</sup>
Timeout	2s
Duty Cycle	0.37%
Occupied Bandwidth	3%
RF Conducted Power	0.6dB
RF Power Density	2.9dB
Conducted Spurious Emissions	0.75dB
RF Radiated Power	5.2dB (Below 1GHz)
	5.9dB (Above 1GHz)
	4.2dB (Below 30MHz)
	4.5dB (30MHz-1GHz)
Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
	5.4dB (Above 18GHz)
Temperature Test	1℃
Humidity Test	3%
Supply Voltages	1.5%
Time	3%
	Radio Frequency         Timeout         Duty Cycle         Occupied Bandwidth         RF Conducted Power         RF Power Density         Conducted Spurious Emissions         RF Radiated Power         RF Radiated Power         Temperature Test         Humidity Test         Supply Voltages

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



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## 4.5 Test Location

All tests were performed at:

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.

### 4.6 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.

#### • 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-1600, C-1707, T-1499, G-10216 respectively.

## 4.7 Deviation from Standards

#### None

## 4.8 Abnormalities from Standard Conditions

None



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## 5 Equipment List

ltem	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Con	ducted Emission at Mains Terminals (150	kHz-30MHz)		•		
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/19/2020	10/18/2021
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/19/2020	10/18/2021
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	1	14	10/17/2020	10/16/2021
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF	Conducted Test					
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	12/02/2020	12/01/2021
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	09/25/2020	09/24/2021
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2020	10/18/2021
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001 -3	10/19/2020	10/18/2021
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	/	RF01-RF04	/	04/15/2021	04/14/2022
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/16/2020	10/15/2021
RF R	adiated Test		I			
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2020	10/18/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2020	10/18/2021
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/22/2019	06/21/2021
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2022
9	Horn-antenna(40-60GHz)	REBES	SAZ-2410-19-S1	06299-01	N/A	N/A
10	Horn-antenna(50-75GHz)	REBES	SAZ-2410-15-S1	01731-01	N/A	N/A
11	Horn-antenna(75-110GHz)	REBES	SAZ-2410-10-S1	01773-09	N/A	N/A
12	Horn-antenna(110-170GHz)	REBES	SAZ-2410-06-S1	01776-05	N/A	N/A
13	Horn-antenna(140-220GHz)	REBES	SAZ-2410-05-S1	01759-04	N/A	N/A
14	Horn-antenna(220-325GHz)	REBES	SAR-2309-03-S2	06300-01	N/A	N/A
15	Extended waveguide(40-60GHz)	REBES	SWG-19025-FB	06303-01	N/A	N/A
		1	i	1		



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17	Extended waveguide(75-110GHz)	REBES	SWG-10025-FB	01509-01	N/A	N/A
18	Extended waveguide(110-170GHz)	REBES	SWG-06025-FB	06302-01	N/A	N/A
19	Extended waveguide(140-220GHz)	REBES	SWG-05025-FB	06304-01	N/A	N/A
20	Extended waveguide(220-325GHz)	REBES	SWG-03025-FB	06301-01	N/A	N/A
21	Harmonic mixer(110-170GHz)	REBES	STH-06SF-S1	06110-01	N/A	N/A
22	Harmonic mixer(40-60GHz)	REBES	STH-19SF-S1	06937-01	N/A	N/A
23	Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	MY51390966	N/A	N/A
24	Waveguide Harmonic Mixer(50-75GHz) cable	Silverline	LU18-SMSM-01.001	99612	N/A	N/A
25	Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	MY51430883	N/A	N/A
26	Vaveguide Harmonic Mixer(75-110GHz) cable	Silverline	LU18-SMSM-01.001	94202	N/A	N/A
27	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
28	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/23/2020	10/22/2021
29	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
30	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
31	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
32	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
33	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
34	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
35	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
36	Filter (1745 MHz $\sim$ 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
37	Filter (1922 MHz $\sim$ 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
38	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
39	Filter (1532 MHz $\sim$ 1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
40	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
41	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
42	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A



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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

#### 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 5dBi.

Antenna location: Refer to Appendix(Internal Photos)



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### 6.2 Transmission in the Absence of Data

#### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

#### 6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip (RTL8812FR) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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## 7 Radio Spectrum Matter Test Results

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

Test Requirement47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)Test Method:ANSI C63.10 (2013) Section 6.2Limit:Limit:

	Conducted limit(dBµV)					
Frequency of emission(MHz)	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.						

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

**Operating Environment:** 

Temperature:	24 °C	Humidity: 48	% RH	Atmospheric Pressure:	1010	mbar	
Pretest these modes to find the worst case:	modulation type found the data r MCS0 is the wo case of IEEE 80 802.11ac(VHT2 802.11ac(VHT4	s. All data rates ate @ 6Mbps is rst case of IEEE (2.11n(HT40); da 0); data rate @ I 0); data rate @ I	for each mod the worst ca 802.11n(HT ata rate @ M MCS0 is the MCS0 is the	tuously transmitting mode dulation type have been t se of IEEE 802.11a; data 20); data rate @ MCS0 i CS0 is the worst case of worst case of IEEE worst case of IEEE se is recorded in the repo	tested a a rate @ s the wo IEEE	nd !	
	802.11ac(VHT80). Only the data of worst case is recorded in the report. c:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.						
The worst case for final test:	modulation type found the data r MCS0 is the wo case of IEEE 80 802.11ac(VHT2 802.11ac(VHT4	s. All data rates ate @ 6Mbps is rst case of IEEE (2.11n(HT40); da 0); data rate @ I 0); data rate @ I	for each mod the worst car 802.11n(HT ata rate @ M MCS0 is the MCS0 is the	uously transmitting mode dulation type have been t se of IEEE 802.11a; data 20); data rate @ MCS0 i CS0 is the worst case of worst case of IEEE worst case of IEEE se is recorded in the repo	tested a a rate @ s the wo IEEE	nd	



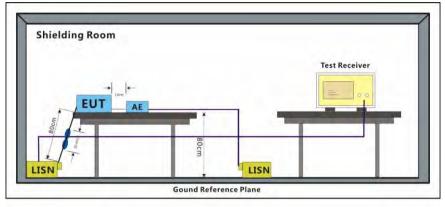
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### 7.1.2 Test Setup Diagram



#### 7.1.3 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/50 $\mu$ H + 50hm 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: LISN=Read Level+ Cable Loss+ LISN Factor



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Mode:c; Line:Live Line 80.0 dBu¥ QP: AVG: **4** 5 X 40 WWW ¥ ŝ whenter andulare rillom when the peak بالمراجع والمترجع AVG 0.0 0.5 (MHz) 30.000 0.150 5

No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	36.90	24.75	19.46	56.36	44.21	66.00	56.00	-9.64	-11.79	Pass
2	0.1900	34.87	16.76	19.46	54.33	36.22	64.04	54.04	-9.71	-17.82	Pass
3	0.2260	32.75	10.86	19.47	52.22	30.33	62.60	52.60	-10.38	-22.27	Pass
4	0.3180	28.29	10.15	19.48	47.77	29.63	59.76	49.76	-11.99	-20.13	Pass
5	0.3580	27.47	10.14	19.49	46.96	29.63	58.77	48.77	-11.81	-19.14	Pass
6	0.7020	10.02	-2.20	19.53	29.55	17.33	56.00	46.00	-26.45	-28.67	Pass



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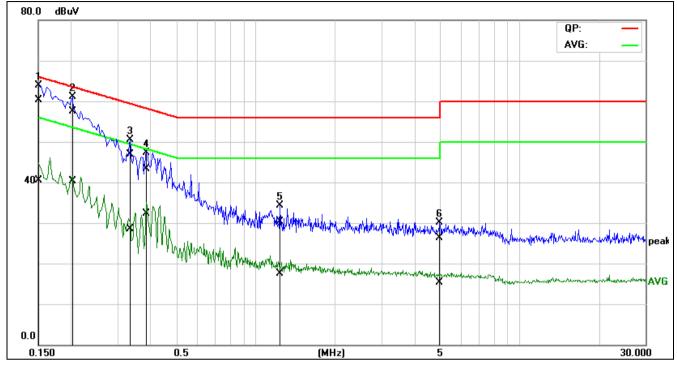
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Mode:c; Line:Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	40.81	21.13	19.42	60.23	40.55	66.00	56.00	-5.77	-15.45	Pass
2	0.2020	38.01	20.80	19.43	57.44	40.23	63.53	53.53	-6.09	-13.30	Pass
3	0.3340	27.50	9.01	19.46	46.96	28.47	59.35	49.35	-12.39	-20.88	Pass
4	0.3860	23.84	12.78	19.48	43.32	32.26	58.15	48.15	-14.83	-15.89	Pass
5	1.2380	10.79	-2.12	19.54	30.33	17.42	56.00	46.00	-25.67	-28.58	Pass
6	4.9900	6.57	-4.49	19.74	26.31	15.25	56.00	46.00	-29.69	-30.75	Pass



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### 7.2 99% Bandwidth

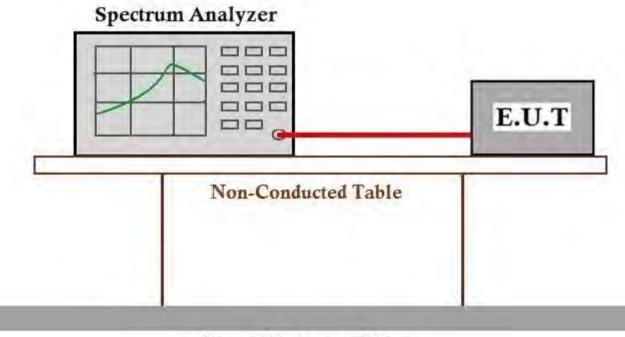
Test Requirement N/A Test Method: KDB 789033 II D

#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature:	25 °C	Humidity:	48	% RH	Atmospheric Pressure:	1008	mbar
Pretest these modes to find the worst case:	modulati found the MCS0 is case of I 802.11ac 802.11ac	on types. All data e data rate @ 6Mb the worst case of EEE 802.11n(HT4 c(VHT20); data rat c(VHT40); data rat	rates ps is IEEE 0); da e @ I e @ I	for each n the worst 802.11n(H ata rate @ MCS0 is th MCS0 is th	tinuously transmitting mode nodulation type have been to case of IEEE 802.11a; data HT20); data rate @ MCS0 i MCS0 is the worst case of ne worst case of IEEE ne worst case of IEEE case is recorded in the repo	tested a a rate @ s the we IEEE	and )
	modulati found the MCS0 is case of I 802.11ac 802.11ac	on types. All data e data rate @ 6Mb the worst case of EEE 802.11n(HT4 c(VHT20); data rat c(VHT40); data rat	rates ps is IEEE 0); da e @ I e @ I	for each n the worst 802.11n(H ata rate @ MCS0 is th MCS0 is th	tinuously transmitting mode nodulation type have been to case of IEEE 802.11a; data HT20); data rate @ MCS0 i MCS0 is the worst case of ne worst case of IEEE ne worst case of IEEE case is recorded in the repo	tested a a rate @ s the wo IEEE	and )

#### 7.2.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210500493402





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## 7.3 26dB Emission bandwidth

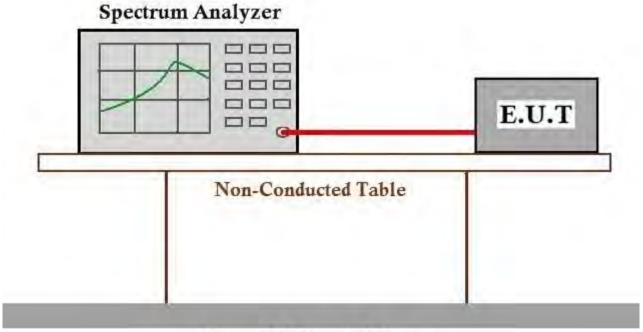
Test Requirement	47 CFR Part 15, Subpart C 15.407 (a)
Test Method:	KDB 789033 D02 II C 1

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

Operating Environment:

Temperature:25 °CHumidity:48 % RHAtmospheric Pressure:1008mbarTest modec:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all<br/>modulation types. All data rates for each modulation type have been tested and<br/>found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @<br/>MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst<br/>case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.3.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210500493402



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## 7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

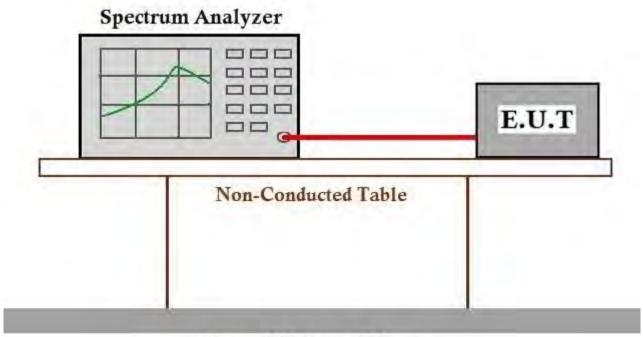
Test Requirement	47 CFR Part 15, Subpart C 15.407 (e)
Test Method:	KDB 789033 D02 II C 2
Limit:	≥500 kHz

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

**Operating Environment:** 

Temperature:25 °CHumidity:48 % RHAtmospheric Pressure:1008mbarTest modec:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all<br/>modulation types. All data rates for each modulation type have been tested and<br/>found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @<br/>MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst<br/>case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.4.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210500493402



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### 7.5 Maximum Conducted output power

Test Requirement47 CFR Part 15, Subpart C 15.407 (a)Test Method:KDB 789033 D02 II ELimit:Limit:

Frequenc	y band(MHz)	Limit				
E 1 E 0 E	250	≤1W(30dBm) for master device				
5150-5	0250	≤250mW(24dBm) for client device				
5250-5	5350	≤250mW(24dBm) for client device or 11dBm+10logB*				
5470-5	5725	≤250mW(24dBm) for client device or 11dBm+10logB*				
5725-5	6850	≤1W(30dBm)				
Remark:	* Where B is tl	he 26dB emission bandwidth in MHz. I conducted output power must be measured over any interval of Insmission using instrumentation calibrated in terms of an rms-equivalent				
	antenna is 5d	11n/ac mode supports 2 * 2 MIMO transmission. The Gain of each Bi, and the directional antenna gain is 8.01dBi. Therefore, the power limit liced from the part exceeding 6, 5150-5250 & 5725-5850: 27.99dBm				



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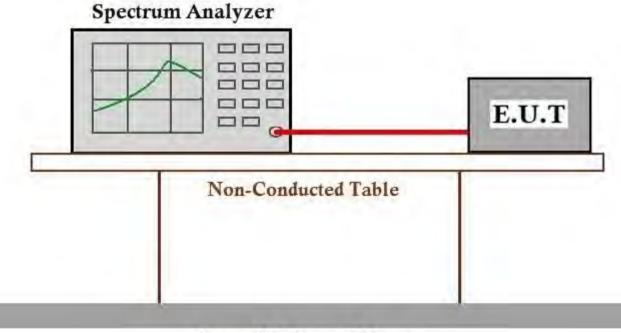


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#### 7.5.1 E.U.T. Operation

	•					
Operating Enviror	nment:					
Temperature:	25 °C	Humidity:	48 % RH	Atmospheric Pressure:	1008 m	nbar
Pretest these modes to find the worst case:	b:TX mode (I modulation ty found the da MCS0 is the case of IEEE 802.11ac(VH 802.11ac(VH 802.11ac(VH c:TX mode (I modulation ty	Band 1)_Keep t ypes. All data ra ta rate @ 6Mbp worst case of II 802.11n(HT40 IT20); data rate IT40); data rate IT40). Only the Band 3)_Keep t ypes. All data rate	the EUT in cont ates for each m is is the worst of EEE 802.11n(H ); data rate @ @ MCS0 is th @ MCS0 is th data of worst of the EUT in cont ates for each m	tinuously transmitting mod odulation type have been case of IEEE 802.11a; data IT20); data rate @ MCS0 is MCS0 is the worst case of e worst case of IEEE e worst case of IEEE case is recorded in the repo- tinuously transmitting mod- odulation type have been case of IEEE 802.11a; data	e with all tested and a rate @ s the wors TEEE ort. e with all tested and	d st
	MCS0 is the case of IEEE 802.11ac(VH 802.11ac(VH	worst case of II 802.11n(HT40 IT20); data rate IT40); data rate	EEE 802.11n(H ); data rate @ @ MCS0 is th @ MCS0 is th	IT20); data rate @ MCS0 i MCS0 is the worst case of e worst case of IEEE e worst case of IEEE	s the wors IEEE	st
	802.11ac(VF	(180). Only the	data of worst c	ase is recorded in the repo	ort.	

#### 7.5.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210500493402





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## 7.6 Peak Power spectrum density

Test Requirement47 CFR Part 15, Subpart C 15.407 (a)Test Method:KDB 789033 D02 II FLimit:Limit

Frequenc	y band(MHz)	Limit				
E1E0 E	250	≤17dBm in 1MHz for master device				
5150-5	0250	≤11dBm in 1MHz for client device				
5250-5	5350	≤11dBm in 1MHz for client device				
5470-5	5725	≤11dBm in 1MHz for client device				
5725-5	5850	≤30dBm in 500 kHz				
Remark:		n power spectral density is measured as a conducted emission by direct a calibrated test instrument to the equipment under test.				
	antenna is 5dE	11n/ac mode supports 2 * 2 MIMO transmission. The Gain of each Bi, and the directional antenna gain is 8.01dBi. Therefore, the power limit liced from the part exceeding 6, 5150-5250: 14.99dBm/MHz & 5725-5850:				



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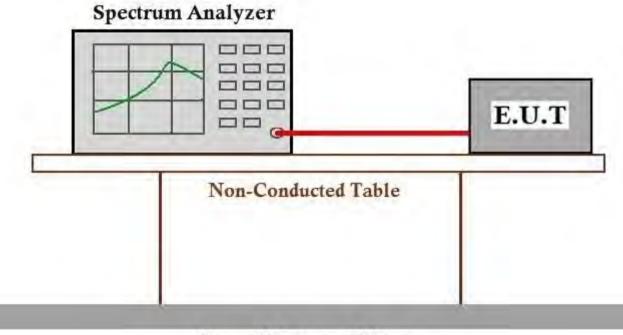


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#### 7.6.1 E.U.T. Operation

Operating Environ	men	t:					
Temperature:	25	°C	Humidity:	48	% RH	Atmospheric Pressure: 1008	3 mbar
Pretest these modes to find the worst case:	mo four MC cas 802 802	dulation type nd the data i S0 is the wo e of IEEE 80 2.11ac(VHT2 2.11ac(VHT4	es. All data r rate @ 6Mb orst case of 02.11n(HT4 20); data rate 40); data rate	ates f ps is f IEEE 0); da e @ N e @ N	for each m the worst o 802.11n(H ita rate @ ACS0 is th ACS0 is th	tinuously transmitting mode with nodulation type have been tested case of IEEE 802.11a; data rate HT20); data rate @ MCS0 is the MCS0 is the worst case of IEEE he worst case of IEEE he worst case of IEEE case is recorded in the report.	l and @ worst
	mo four MC cas 802 802	dulation type nd the data i S0 is the wo e of IEEE 80 2.11ac(VHT2 2.11ac(VHT4	es. All data r rate @ 6Mb orst case of 02.11n(HT4 20); data rate 40); data rate	ates f ps is f IEEE 0); da e @ N e @ N	for each m the worst o 802.11n(H ita rate @ MCS0 is th MCS0 is th	tinuously transmitting mode with nodulation type have been tested case of IEEE 802.11a; data rate HT20); data rate @ MCS0 is the MCS0 is the worst case of IEEE he worst case of IEEE he worst case of IEEE case is recorded in the report.	l and @ worst

#### 7.6.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210500493402





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## 7.7 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method:	KDB 789033 D02 II G
Limit:	

#### Limit:

-	
For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of $-27$ dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.
E.U.T. Operation	
Onerating Environment	

## 7.7.1

**Operating Environment:** 

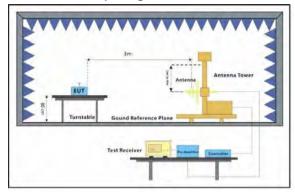
Operating Enviro	forment.							
Temperature:	25 °C Humidity: 48 % RH Atn	nospheric Pressure: 1008 mbar						
Pretest these modes to find the worst case:	modulation types. All data rates for each modulation type have been tested and							
	c:TX mode (Band 3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE							
The worst case for final test:	<ul> <li>b:TX mode (Band 1)_Keep the EUT in continuous modulation types. All data rates for each modulat found the data rate @ 6Mbps is the worst case of MCS0 is the worst case of IEEE 802.11n(HT20); case of IEEE 802.11n(HT40); data rate @ MCS0 802.11ac(VHT20); data rate @ MCS0 is the wors 802.11ac(VHT40); data rate @ MCS0 is the wors 802.11ac(VHT80). Only the data of worst case is</li> </ul>	tion type have been tested and f IEEE 802.11a; data rate @ data rate @ MCS0 is the worst is the worst case of IEEE st case of IEEE st case of IEEE						
	c:TX mode (Band 3)_Keep the EUT in continuous modulation types. All data rates for each modulat found the data rate @ 6Mbps is the worst case o	ion type have been tested and f IEEE 802.11a; data rate @						
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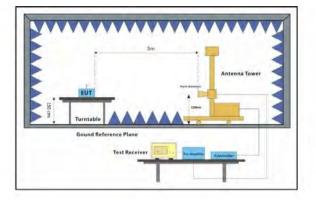


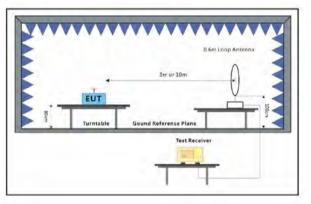
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MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.7.2 Test Setup Diagram









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#### 7.7.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. Scan from 9kHz to 40GHz, 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. 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.

5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



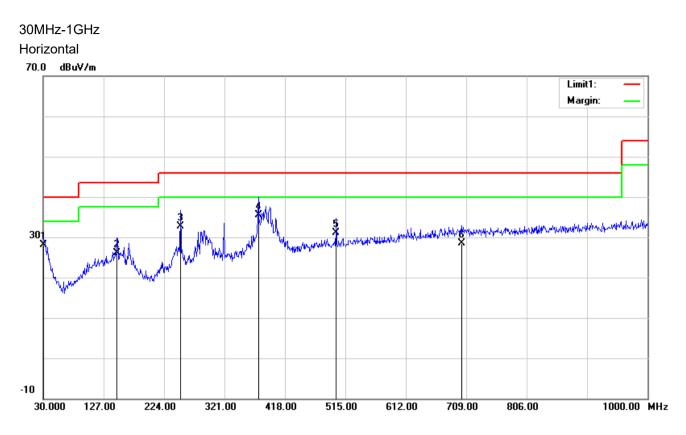
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No.	Frequency	Reading	Correct Result Limit M		Margin Height		Degree	Remark	
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.0000	2.12	26.00	28.12	40.00	-11.88	200	339	QP
2	148.3400	5.95	20.18	26.13	43.50	-17.37	116	362	QP
3	250.1900	13.06	19.55	32.61	46.00	-13.39	100	57	QP
4	375.3200	12.01	23.45	35.46	46.00	-10.54	100	27	QP
5	500.4500	5.72	25.43	31.15	46.00	-14.85	200	114	QP
6	701.2400	0.48	27.98	28.46	46.00	-17.54	100	47	QP



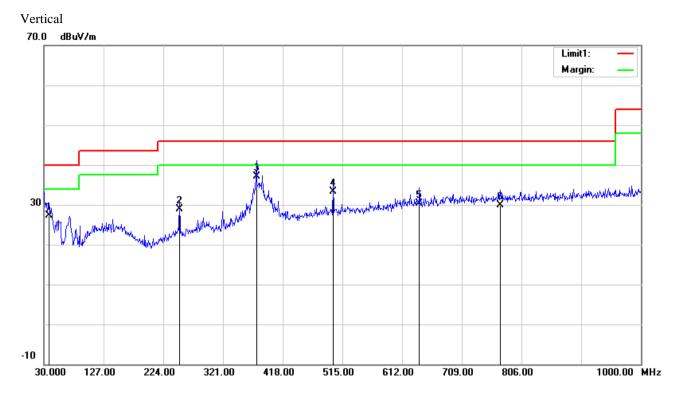
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	38.7300	6.47	20.88	27.35	40.00	-12.65	100	124	QP
2	250.1900	9.37	19.55	28.92	46.00	-17.08	200	28	QP
3	375.3200	13.65	23.45	37.10	46.00	-8.90	162	360	QP
4	500.4500	7.83	25.43	33.26	46.00	-12.74	100	346	QP
5	640.1300	3.15	27.21	30.36	46.00	-15.64	166	360	QP
6	771.0800	1.57	28.29	29.86	46.00	-16.14	171	360	QP

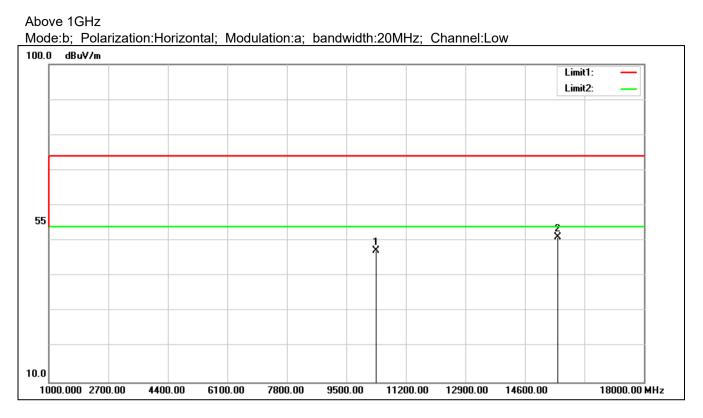


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10360.000	38.95	8.20	47.15	74.00	-26.85	peak
2	15540.000	42.12	8.96	51.08	74.00	-22.92	peak

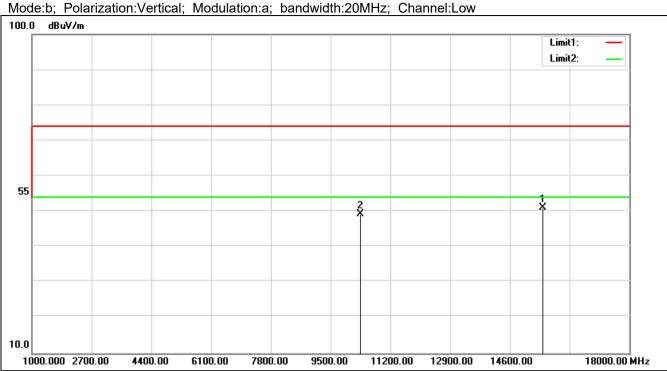


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1000.00	0 2700.00 4400	D.00 6100.00	7800.00 9500	.00 11200.00	12900.00 146	00.00	18000.00 MHz
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	15540.000	42.18	8.96	51.14	74.00	-22.86	peak
2	10360.000	41.10	8.20	49.30	74.00	-24.70	peak

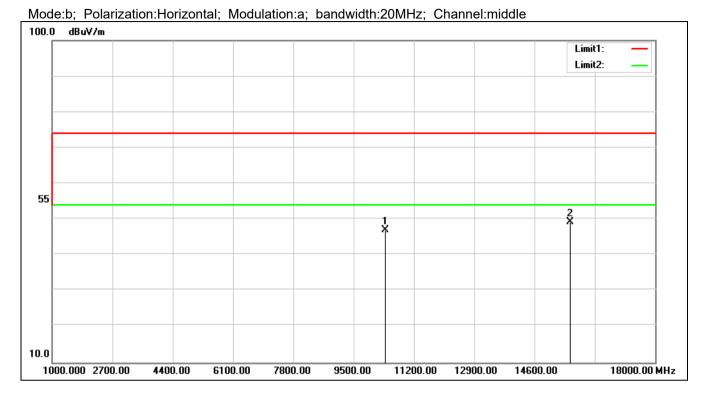


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No.	lo. Frequency Reading		Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10400.000	38.55	8.38	46.93	74.00	-27.07	peak
2	15600.000	40.35	8.95	49.30	74.00	-24.70	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10400.000	39.95	8.38	48.33	74.00	-25.67	peak
2	15600.000	42.19	8.95	51.14	74.00	-22.86	peak

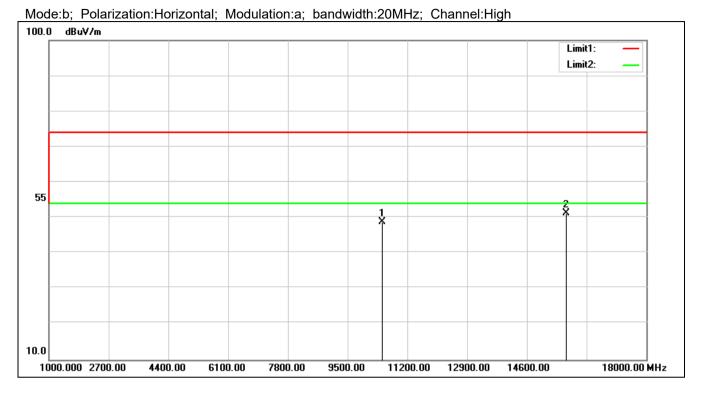


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No.	o. Frequency Reading		Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10480.000	39.98	8.73	48.71	74.00	-25.29	peak
2	15720.000	42.40	8.92	51.32	74.00	-22.68	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	15720.000	42.11	8.92	51.03	74.00	-22.97	peak
2	10480.000	37.99	8.73	46.72	74.00	-27.28	peak

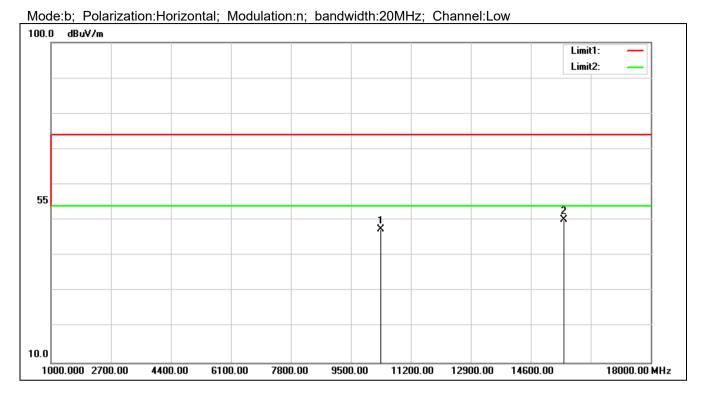


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10360.000	39.20	8.20	47.40	74.00	-26.60	peak
2	15540.000	41.10	8.96	50.06	74.00	-23.94	peak

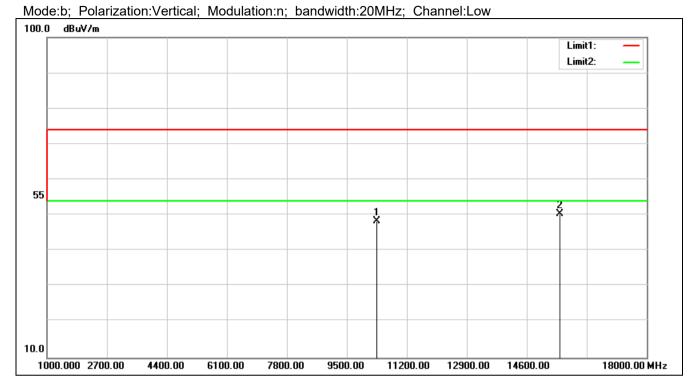


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No.	Frequency Reading		Correct Result		Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10360.000	40.16	8.20	48.36	74.00	-25.64	peak
2	15540.000	41.53	8.96	50.49	74.00	-23.51	peak



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No.	Frequency	Reading Correct		Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10400.000	40.47	8.38	48.85	74.00	-25.15	peak
2	15600.000	41.04	8.95	49.99	74.00	-24.01	peak

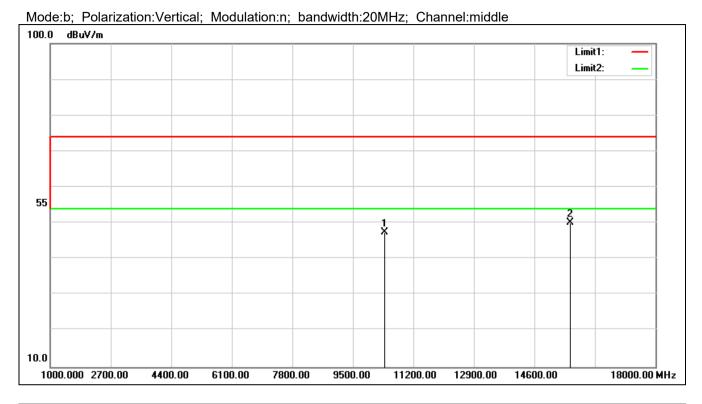


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10400.000	39.16	8.38	47.54	74.00	-26.46	peak
2	15600.000	41.27	8.95	50.22	74.00	-23.78	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10480.000	39.12	8.73	47.85	74.00	-26.15	peak
2	15720.000	41.00	8.92	49.92	74.00	-24.08	peak



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No.	Frequency	Reading	Correct	Correct Result		Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10480.000	38.78	8.73	47.51	74.00	-26.49	peak
2	15720.000	42.81	8.92	51.73	74.00	-22.27	peak



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Report No.: SHEM210500493402 Page: 42 of 126

		arizatio	n:Hor	izonta	; Modu	lation:n; t	andwidth:	40MHz; C	hannel:Lov	N	
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10380.000	38.67	8.29	46.96	74.00	-27.04	peak
2	15570.000	41.03	8.95	49.98	74.00	-24.02	peak

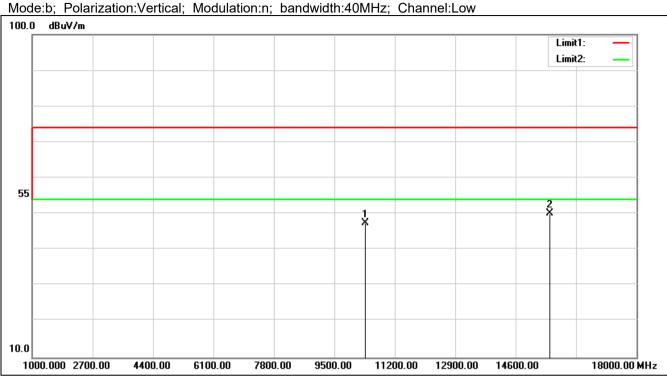


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ode:b;	Polarization:Vertical;	Modulation:n;	bandwidth:40MHz;	Channel:Low

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10380.000	39.25	8.29	47.54	74.00	-26.46	peak
2	15570.000	41.19	8.95	50.14	74.00	-23.86	peak



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Report No.: SHEM210500493402 Page: 44 of 126

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

No.	Frequency	Reading	Correct	Correct Result		Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10460.000	38.60	8.64	47.24	74.00	-26.76	peak
2	15690.000	40.91	8.93	49.84	74.00	-24.16	peak



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中国・上海・松江区会	全都西路588号 邮	编:	201612



Report No.: SHEM210500493402 Page: 45 of 126

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Moderh	Polarization:Vertical;	Modulation	handwidth 40MHz	Channel·High
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10460.000	38.95	8.64	47.59	74.00	-26.41	peak
2	15690.000	41.32	8.93	50.25	74.00	-23.75	peak

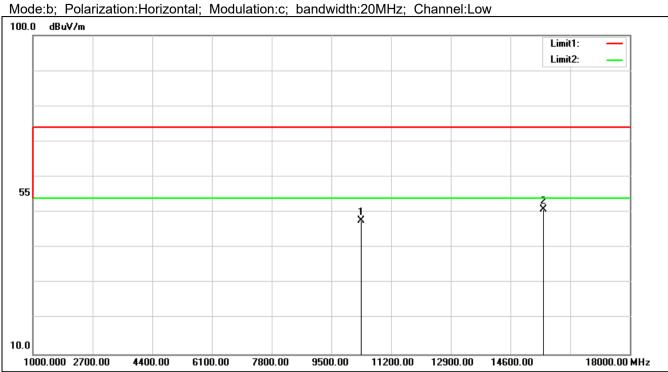


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10360.000	39.55	8.20	47.75	74.00	-26.25	peak
2	15540.000	41.92	8.96	50.88	74.00	-23.12	peak

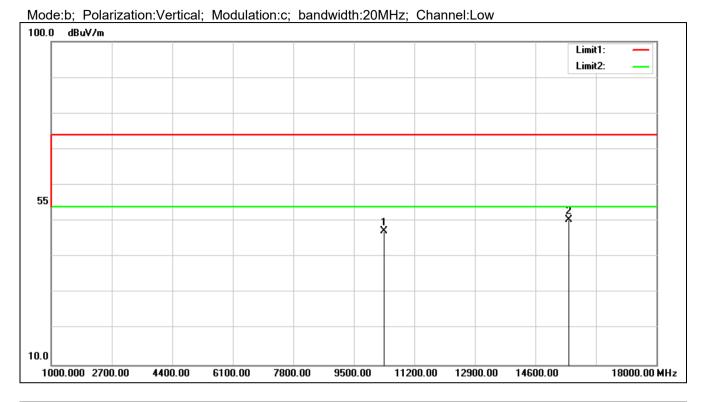


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10360.000	39.00	8.20	47.20	74.00	-26.80	peak
2	15540.000	41.52	8.96	50.48	74.00	-23.52	peak

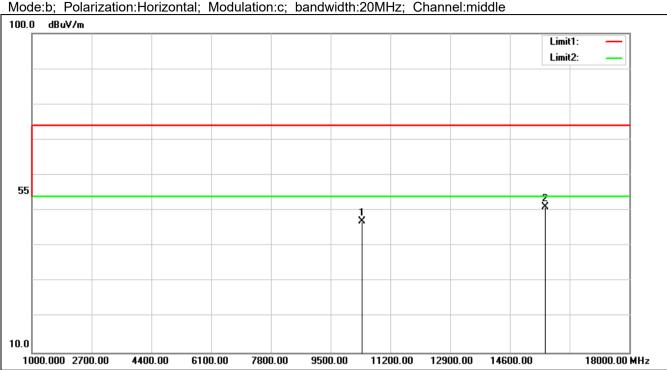


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viode:b;	Polarization:Horizontal;	Modulation:c;	bandwidth:2014HZ;	Channel:middle

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10400.000	38.74	8.38	47.12	74.00	-26.88	peak
2	15600.000	42.01	8.95	50.96	74.00	-23.04	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10400.000	40.53	8.38	48.91	74.00	-25.09	peak
2	15600.000	41.41	8.95	50.36	74.00	-23.64	peak



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Report No.: SHEM210500493402 Page: 50 of 126

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Mode:b; Polarization:Horizontal;	Modulation:c;	bandwidth:20MHz;	Channel:High
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10480.000	39.02	8.73	47.75	74.00	-26.25	peak
2	15720.000	41.44	8.92	50.36	74.00	-23.64	peak



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	中国・上海・松江区金都西路588号	邮编:	201612	



Report No.: SHEM210500493402 Page: 51 of 126

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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10480.000	38.78	8.73	47.51	74.00	-26.49	peak
2	15720.000	41.06	8.92	49.98	74.00	-24.02	peak

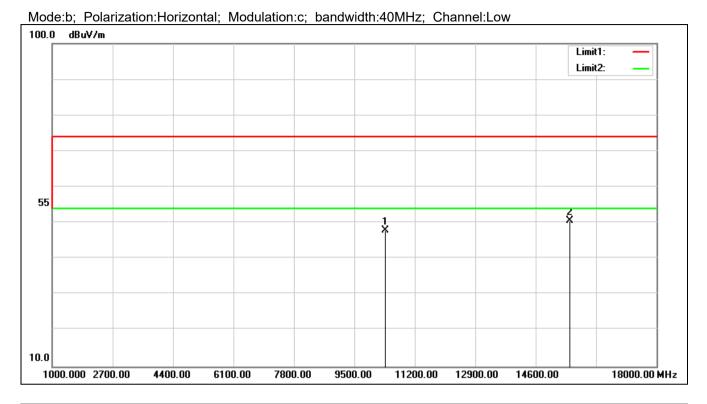


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10380.000	39.70	8.29	47.99	74.00	-26.01	peak
2	15570.000	41.61	8.95	50.56	74.00	-23.44	peak

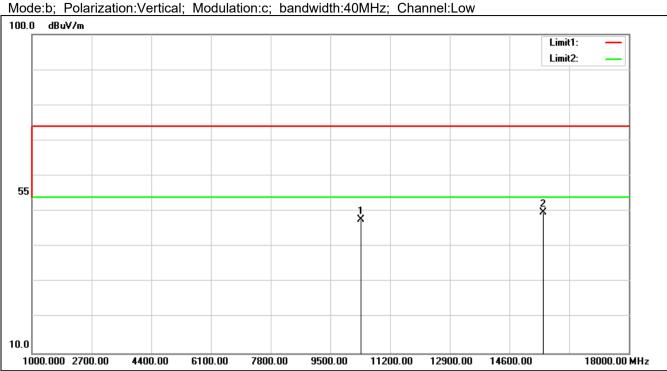


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lode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Lo	w
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10380.000	39.31	8.29	47.60	74.00	-26.40	peak
2	15570.000	40.87	8.95	49.82	74.00	-24.18	peak

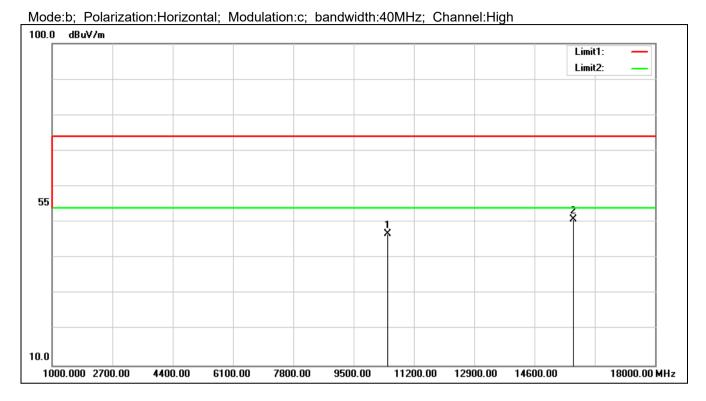


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10460.000	38.24	8.64	46.88	74.00	-27.12	peak
2	15690.000	41.96	8.93	50.89	74.00	-23.11	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10460.000	39.19	8.64	47.83	74.00	-26.17	peak
2	15690.000	41.98	8.93	50.91	74.00	-23.09	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10420.000	38.41	8.47	46.88	74.00	-27.12	peak
2	15630.000	42.14	8.94	51.08	74.00	-22.92	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	10420.000	39.88	8.47	48.35	74.00	-25.65	peak
2	15630.000	41.83	8.94	50.77	74.00	-23.23	peak

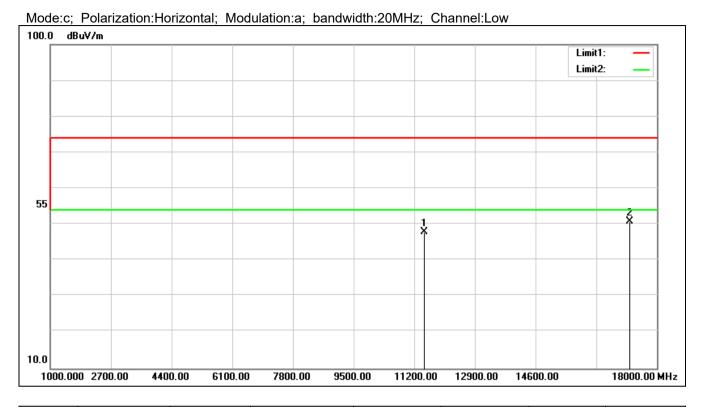


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11490.000	37.72	10.23	47.95	74.00	-26.05	peak
2	17235.000	37.69	13.05	50.74	74.00	-23.26	peak



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	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11490.000	37.06	10.23	47.29	74.00	-26.71	peak
2	17235.000	37.19	13.05	50.24	74.00	-23.76	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11570.000	38.13	10.18	48.31	74.00	-25.69	peak
2	17355.000	36.76	13.18	49.94	74.00	-24.06	peak



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	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11570.000	36.91	10.18	47.09	74.00	-26.91	peak
2	17355.000	37.71	13.18	50.89	74.00	-23.11	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11650.000	36.97	10.10	47.07	74.00	-26.93	peak
2	17475.000	37.52	13.30	50.82	74.00	-23.18	peak

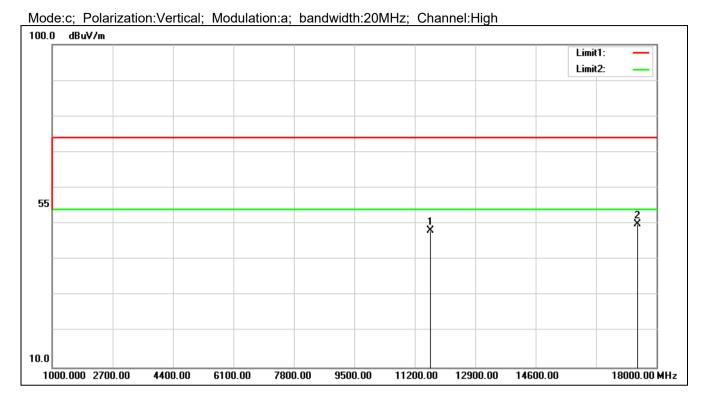


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11650.000	38.03	10.10	48.13	74.00	-25.87	peak
2	17475.000	36.72	13.30	50.02	74.00	-23.98	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11490.000	38.67	10.23	48.90	74.00	-25.10	peak
2	17235.000	37.05	13.05	50.10	74.00	-23.90	peak

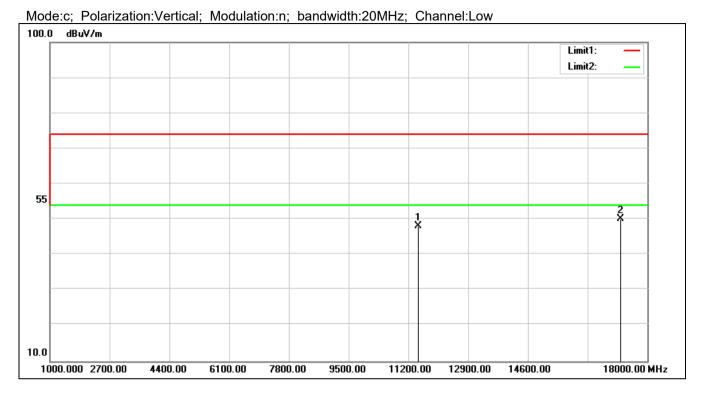


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11490.000	37.92	10.23	48.15	74.00	-25.85	peak
2	17235.000	37.14	13.05	50.19	74.00	-23.81	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11570.000	37.74	10.18	47.92	74.00	-26.08	peak
2	17355.000	38.16	13.18	51.34	74.00	-22.66	peak



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中国・上海・松江区金都西路588号 邮编:	201612



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11570.000	38.54	10.18	48.72	74.00	-25.28	peak
2	17355.000	37.53	13.18	50.71	74.00	-23.29	peak

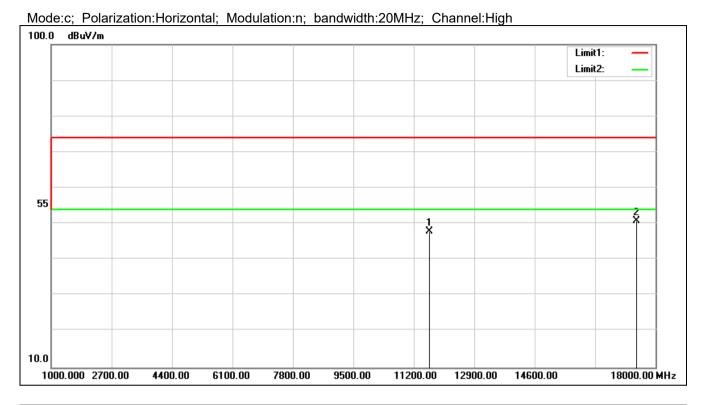


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11650.000	37.77	10.10	47.87	74.00	-26.13	peak
2	17475.000	37.59	13.30	50.89	74.00	-23.11	peak



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	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11650.000	37.66	10.10	47.76	74.00	-26.24	peak
2	17475.000	37.89	13.30	51.19	74.00	-22.81	peak



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		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
ſ	1	11510.000	37.30	10.24	47.54	74.00	-26.46	peak
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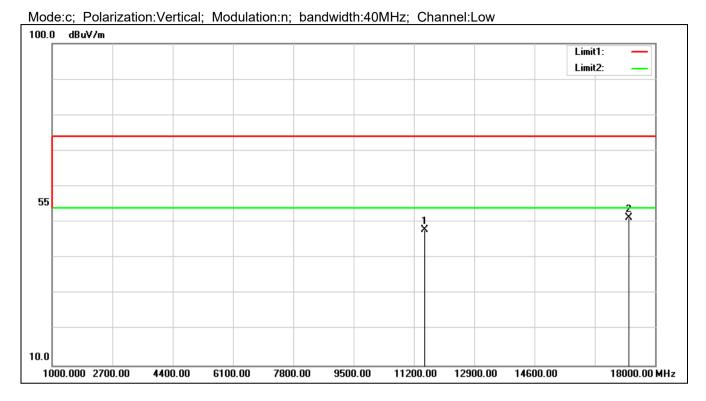
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11510.000	37.65	10.24	47.89	74.00	-26.11	peak
2	17265.000	38.15	13.08	51.23	74.00	-22.77	peak

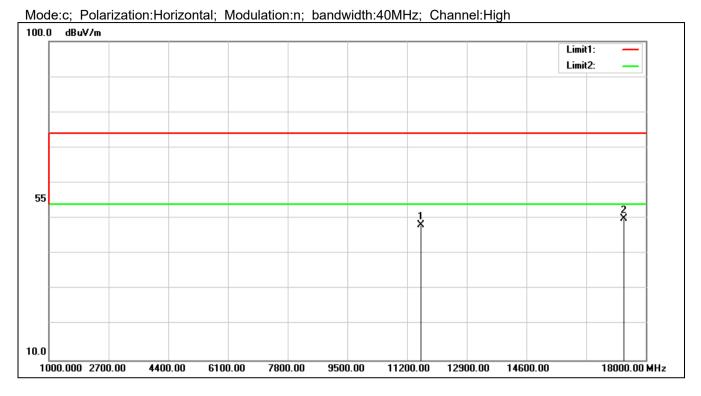


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11590.000	38.09	10.16	48.25	74.00	-25.75	peak
2	17385.000	36.70	13.21	49.91	74.00	-24.09	peak



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1	11590.000	38.28	10.16	48.44	74.00	-25.56	peak
2	17385.000	36.85	13.21	50.06	74.00	-23.94	peak



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1	11490.000	37.06	10.23	47.29	74.00	-26.71	peak
2	17235.000	38.02	13.05	51.07	74.00	-22.93	peak



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	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11490.000	37.36	10.23	47.59	74.00	-26.41	peak
2	17235.000	37.77	13.05	50.82	74.00	-23.18	peak



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	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11570.000	37.07	10.18	47.25	74.00	-26.75	peak
2	17355.000	37.87	13.18	51.05	74.00	-22.95	peak

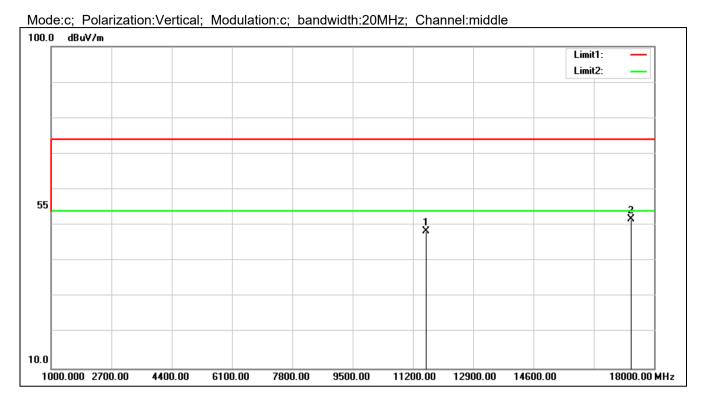


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11570.000	38.11	10.18	48.29	74.00	-25.71	peak
2	17355.000	38.51	13.18	51.69	74.00	-22.31	peak

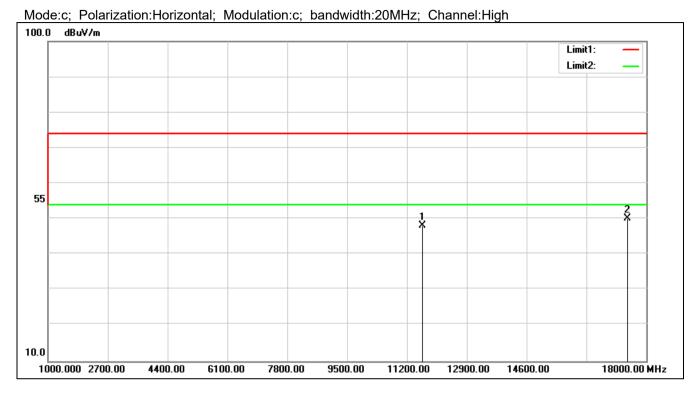


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11650.000	38.09	10.10	48.19	74.00	-25.81	peak
2	17475.000	36.95	13.30	50.25	74.00	-23.75	peak

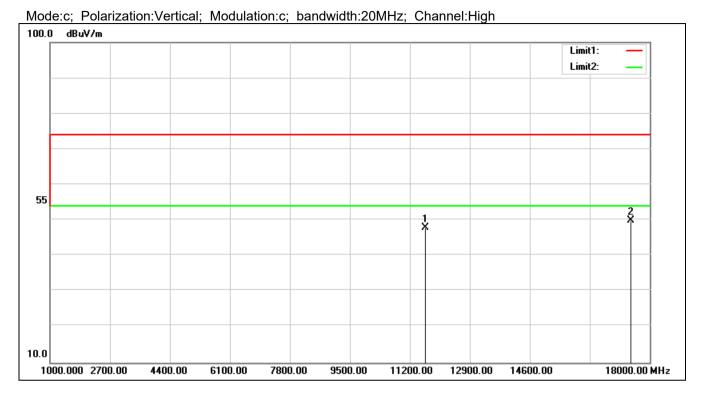


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(MHz) (dBuV) Factor(dB/m)		(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11650.000	37.86	10.10	47.96	74.00	-26.04	peak
2	17475.000	36.59	13.30	49.89	74.00	-24.11	peak

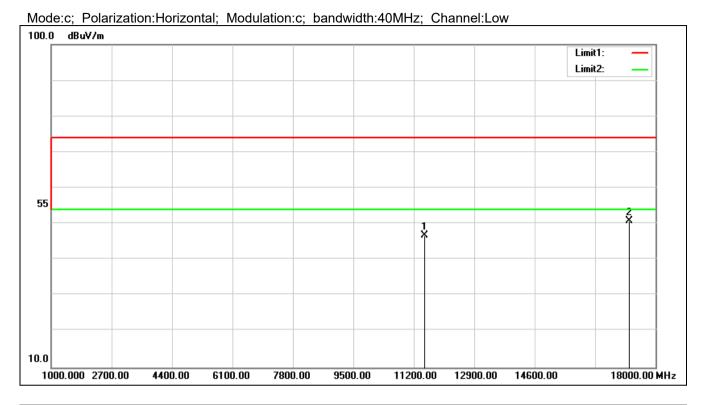


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11510.000	36.55	10.24	46.79	74.00	-27.21	peak
2	17265.000	37.76	13.08	50.84	74.00	-23.16	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11510.000	37.69	10.24	47.93	74.00	-26.07	peak
2	17265.000	37.48	13.08	50.56	74.00	-23.44	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark		
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )			
1	11590.000	37.32	10.16	47.48	74.00	-26.52	peak		
2	17385.000	37.47	13.21	50.68	74.00	-23.32	peak		

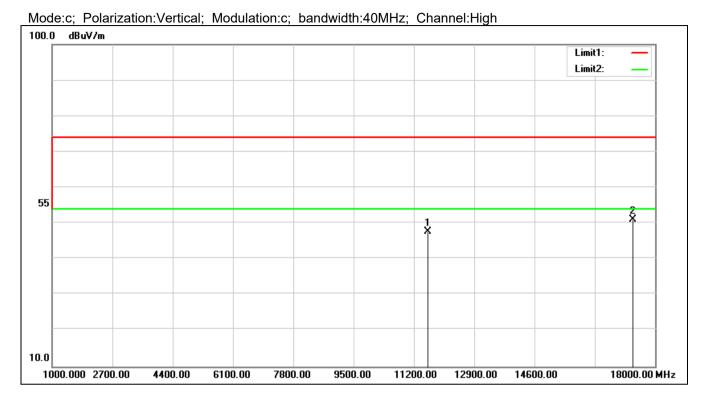


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11590.000	37.54	10.16	47.70	74.00	-26.30	peak
2	17385.000	37.86	13.21	51.07	74.00	-22.93	peak



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wode:c;	Polarization:Horizontal;	Modulation:c;	bandwidth:80iviHZ;	Channel:middle

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11550.000	37.63	10.20	47.83	74.00	-26.17	peak
2	17325.000	37.42	13.14	50.56	74.00	-23.44	peak



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Mode:c; Polarization:Vertical; Mo	odulation:c;	bandwidth:80MHz;	Channel:middle
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )	
1	11550.000	36.50	10.20	46.70	74.00	-27.30	peak
2	17325.000	38.08	13.14	51.22	74.00	-22.78	peak



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## 7.8 Radiated Emissions which fall in the restricted bands

**Test Requirement** 47 CFR Part 15, Subpart C 15.209 & 15.407(b) Test Method: KDB 789033 D02 II G 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:** 

oporating Enviro	innone.					
Temperature:	25 °C	Humidity: 48	% RH	Atmospheric Pressure:	1008 r	mbar
Pretest these modes to find the worst case:	modulation ty found the data MCS0 is the v case of IEEE 802.11ac(VH 802.11ac(VH	pes. All data rates a rate @ 6Mbps is vorst case of IEEE 802.11n(HT40); d Г20); data rate @ Г40); data rate @	s for each m s the worst o E 802.11n(H lata rate @ MCS0 is th MCS0 is th	tinuously transmitting mod odulation type have been case of IEEE 802.11a; data IT20); data rate @ MCS0 MCS0 is the worst case of e worst case of IEEE e worst case of IEEE case is recorded in the rep	tested an a rate @ is the wor f IEEE	ld
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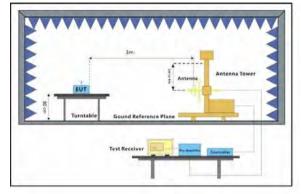


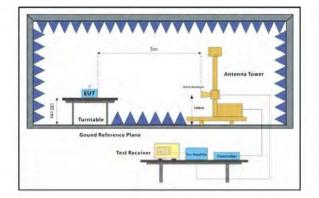
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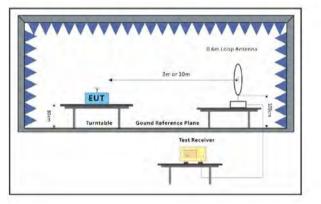
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found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.8.2 Test Setup Diagram









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#### 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: 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.

Remark 3: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.

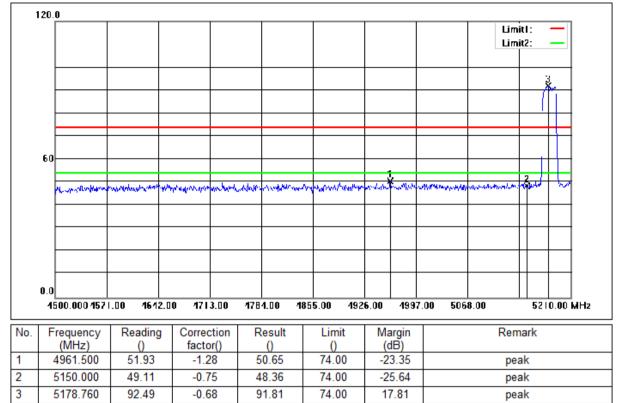


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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

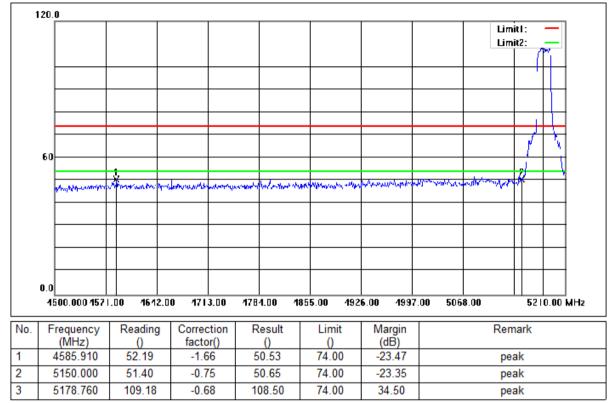


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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

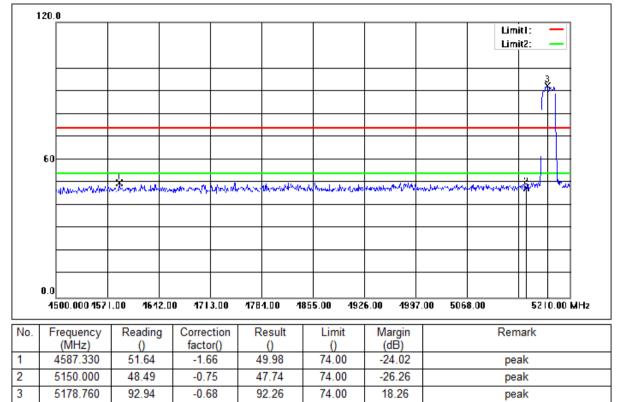


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

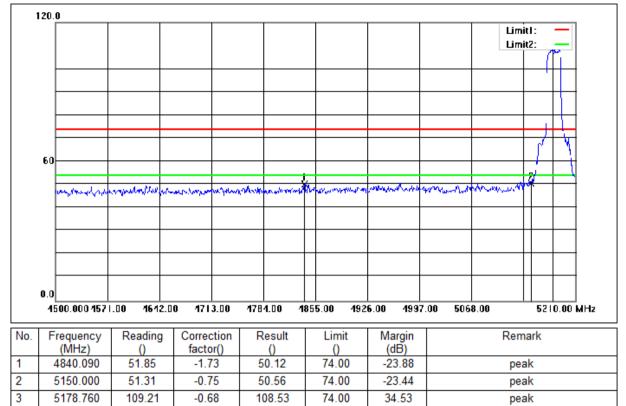


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

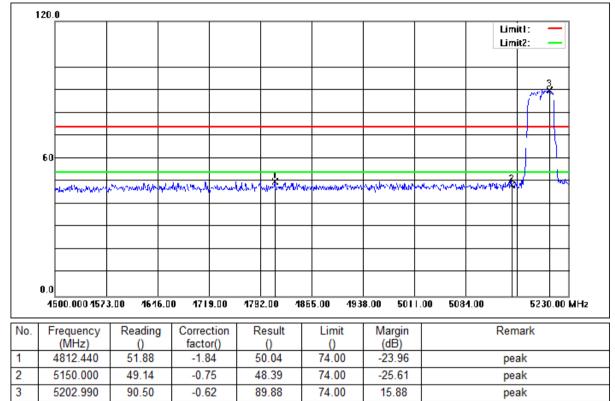


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

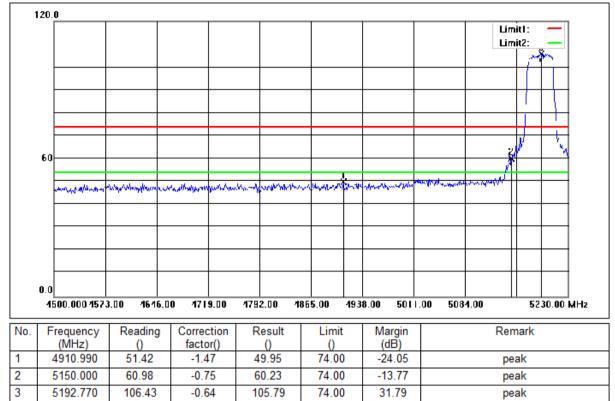


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

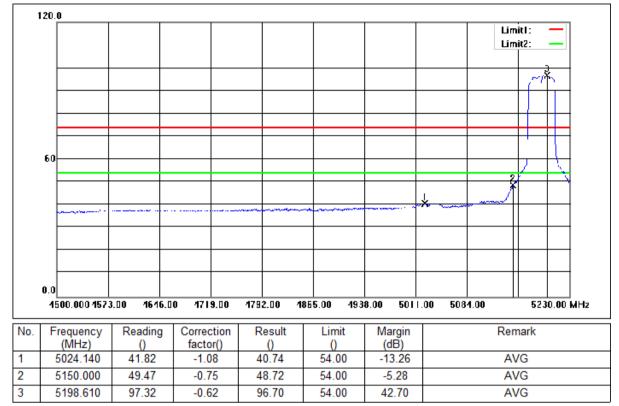


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

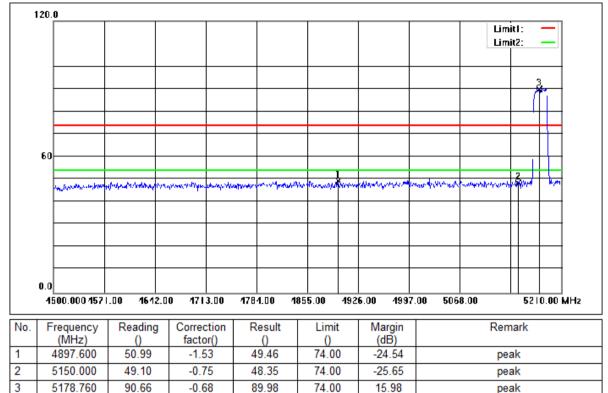


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

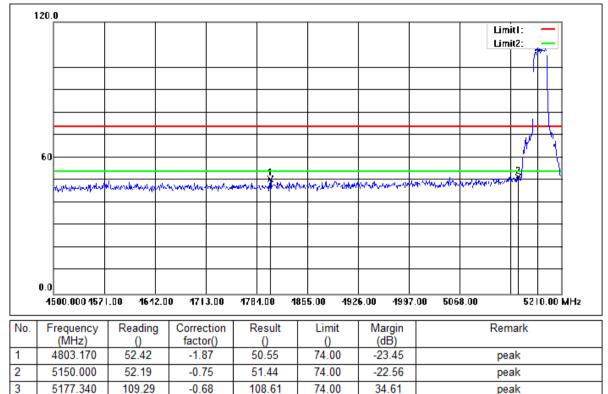


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

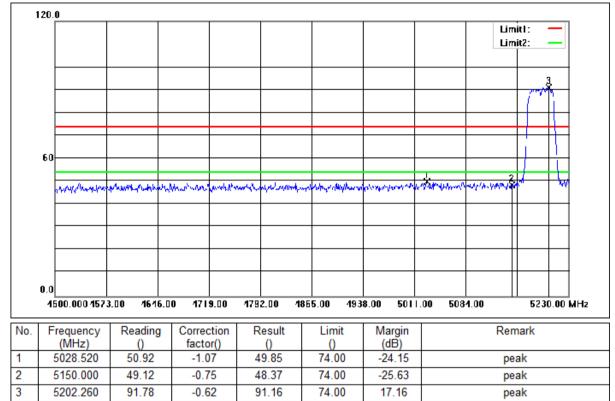


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

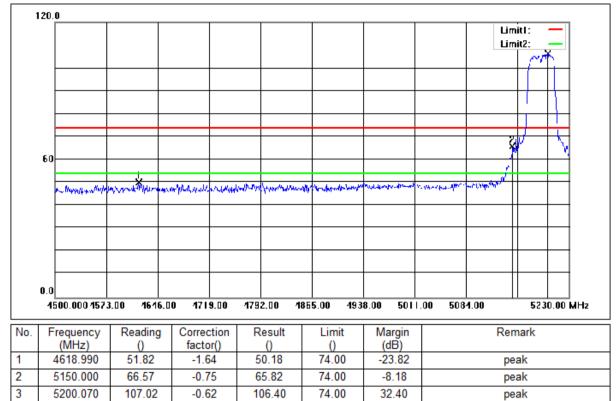


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



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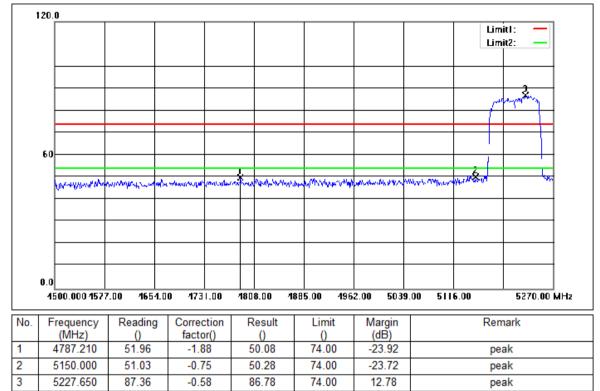


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

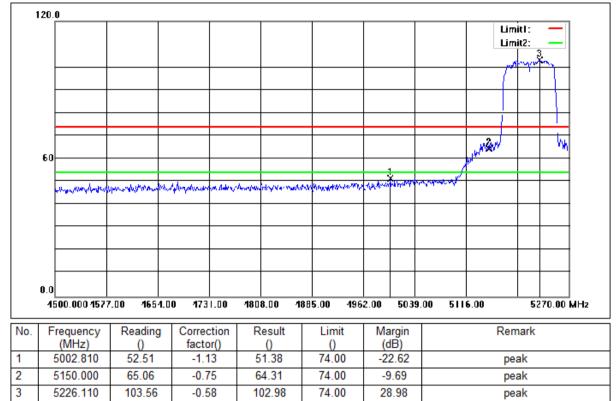


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

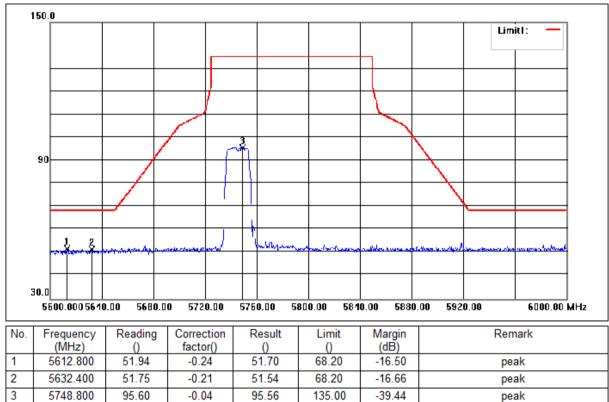


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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

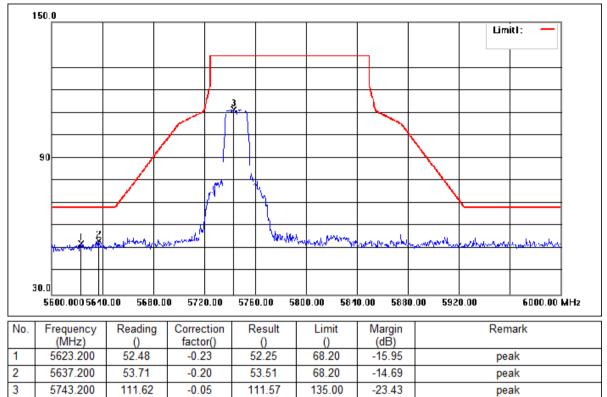


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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

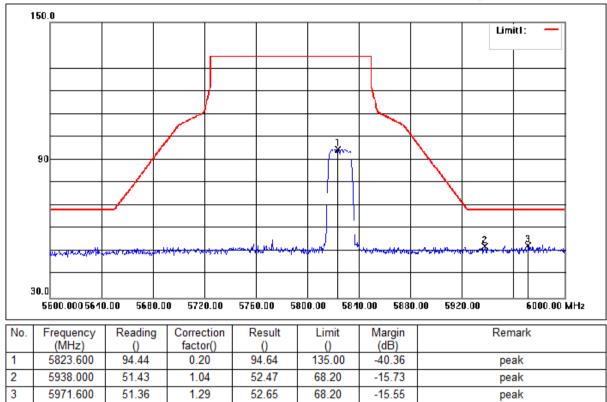


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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

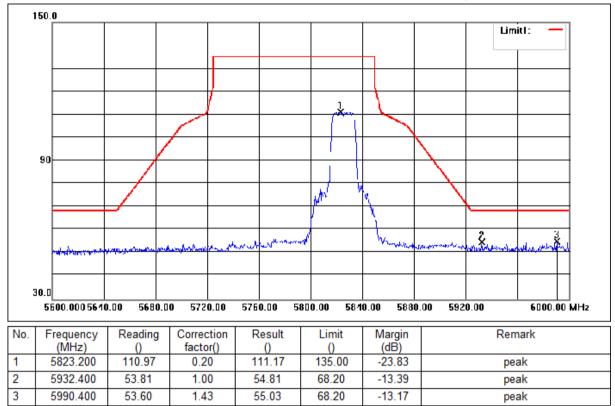


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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

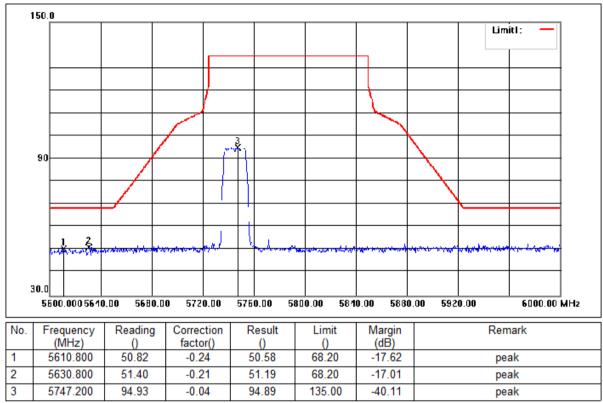


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

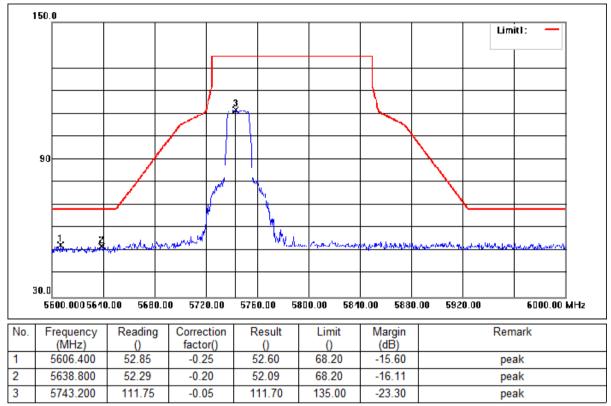


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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

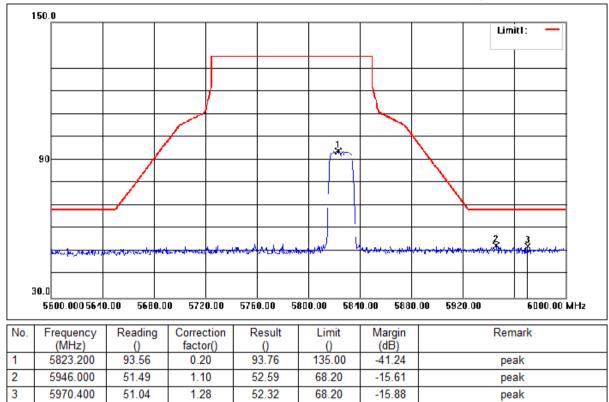


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

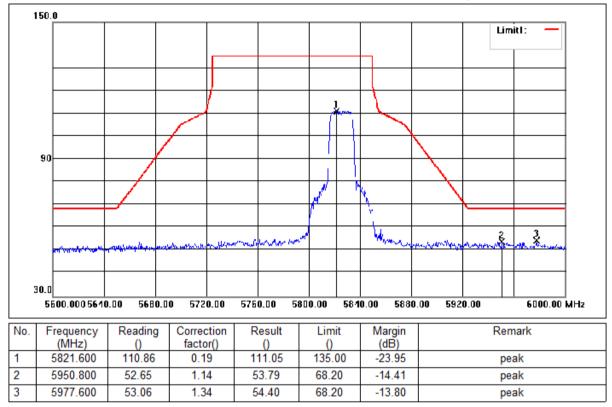


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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

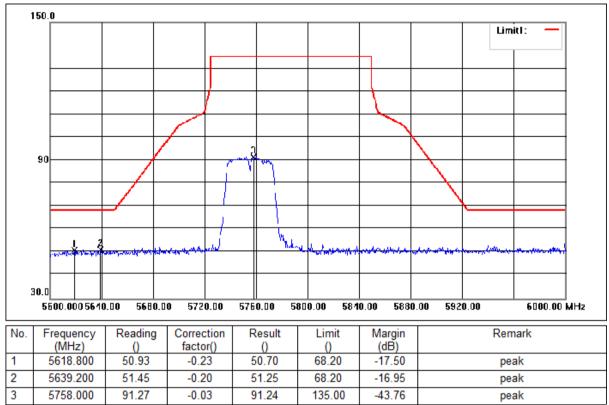


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

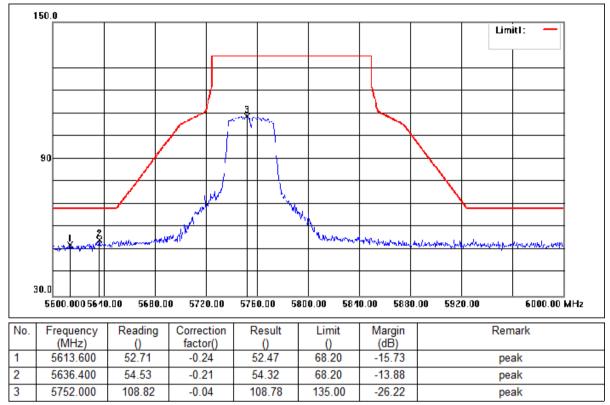


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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

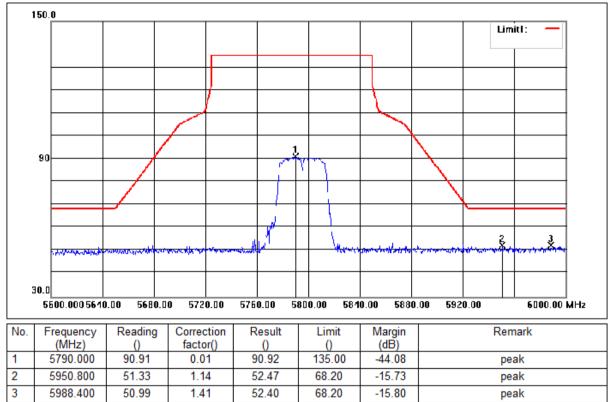


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

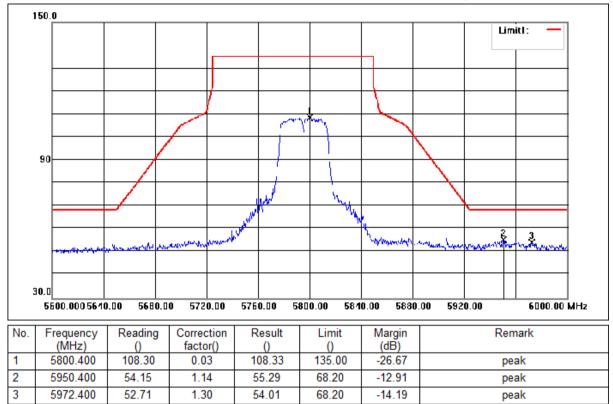


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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

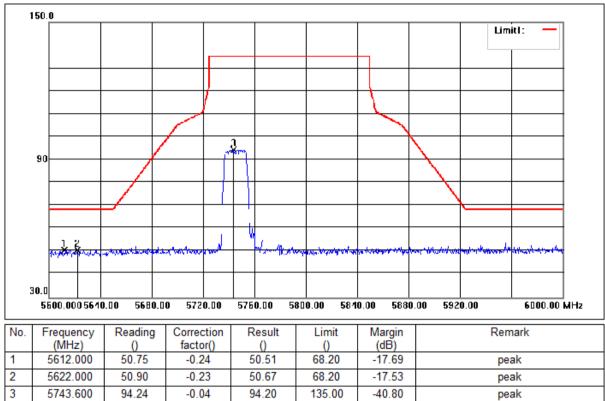


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

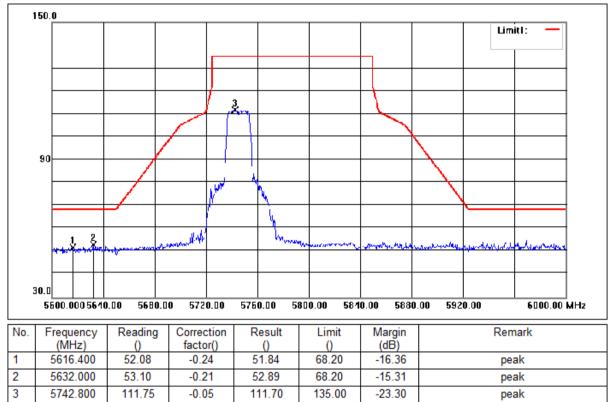


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

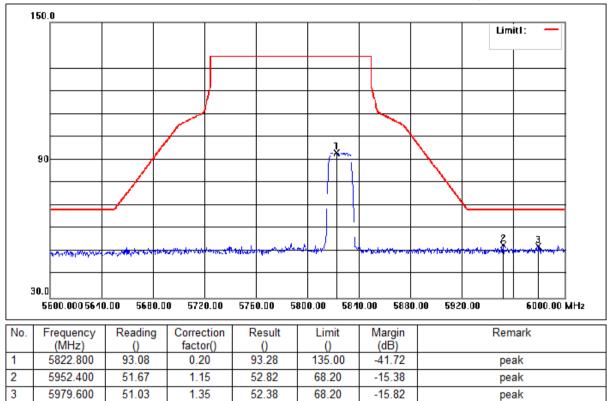


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

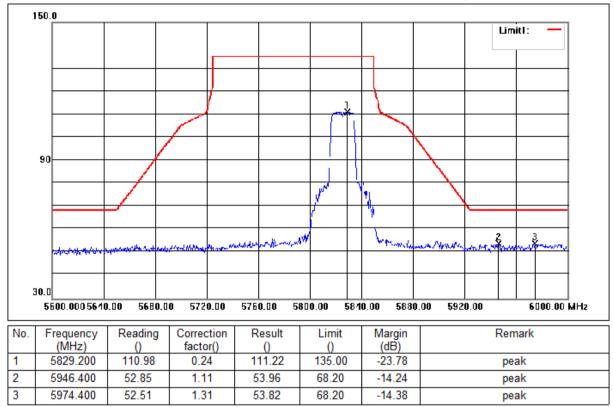


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

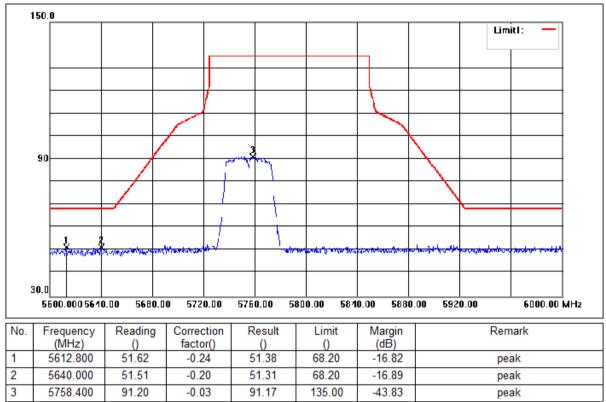


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

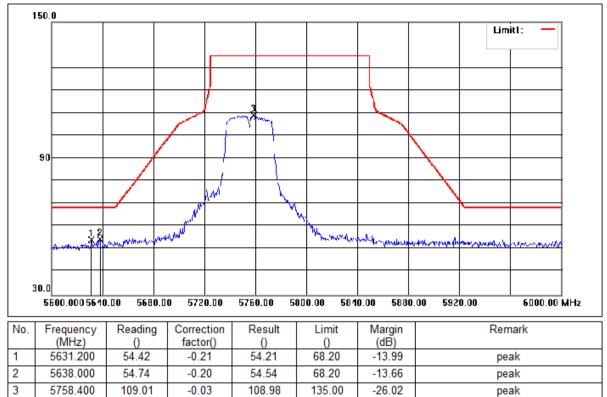


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

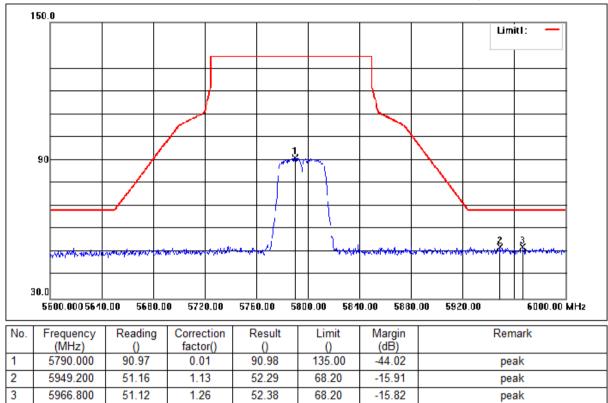


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



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	(MHz)	()	factor(		0	()	(dB)		li		
1	5800.000	108.36	0.03		08.39	135.00	-26.61		peak		
2	5946.000	53.80	1.10		4.90	68.20	-13.30		peak		
3	5958.800	54.05	1.20	5	5.25	68.20	-12.95		pea	ak	

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



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	5500.000 5610	).00 5680.0	0 5720.00	5750.00 5	800.00 584	  0.00 5880	).00 5920	).00	6000.00 F	MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin		Ren	nark	
1	(MHz) 5618.800	53.13	factor() -0.23	52.90	68.20	(dB) -15.30		ne	ak	
2	5637.200	53.13	-0.20	52.91	68.20	-15.29	peak peak			
3	5756.800	105.67	-0.03	105.64	135.00	-29.36	peak			
4	5931.200	55.06	0.99	56.05	68.20	-12.15		peak		
5	5983.600	52.34	1.38	53.72	68.20	-14.48	peak			

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



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# 7.9 Frequency Stability

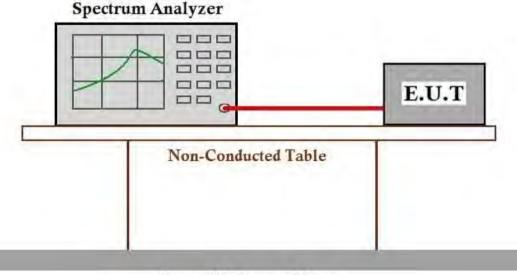
Test Requirement	47 CFR Part 15, Subpart C 15.407 (g)
Test Method:	ANSI C63.10 (2013) Section 6.8
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

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

**Operating Environment:** 

epere										
Temperature:	25 °C Humidity: 48 % RH Atmospheric Pressure: 1008 mba	ar								
Pretest these modes to find the worst case:	b:TX mode (Band 1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.									
	K mode (Band 3)_Keep the EUT in continuously transmitting mode with all dulation types. All data rates for each modulation type have been tested and hd the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ S0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE .11ac(VHT20); data rate @ MCS0 is the worst case of IEEE .11ac(VHT40); data rate @ MCS0 is the worst case of IEEE .11ac(VHT40); data rate @ MCS0 is the worst case of IEEE .11ac(VHT80). Only the data of worst case is recorded in the report.									
Test Satur Disgram										

### 7.9.2 Test Setup Diagram



## **Ground Reference Plane**

### 7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210500493402





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#### 8 **Test Setup Photographs**

Refer to the < Test Setup photos-FCC>.

#### 9 EUT Constructional Details

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

- End of the Report -



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