





SZEMC-TRF-01 Rev. A/0 Aug01.2022

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# TEST REPORT

**Application No.:** SZCR2304000926AT

**Applicant:** Vanstone Electronic (Beijing) Co., Ltd.

3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian **Address of Applicant:** 

District, Beijing, 100195 China

Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.

3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian Address of Manufacturer:

District, Beijing, 100195 China

**Equipment Under Test (EUT):** 

**EUT Name:** MiniPOS Terminal

Model No.: V66 FCC ID: OWLV66

47 CFR Part 15, Subpart C 15.247 Standard(s):

**Date of Receipt:** 2023-04-03

**Date of Test:** 2023-04-04 to 2023-04-27

2023-05-18 Date of Issue:

**Test Result:** Pass\*

Keny Xu **EMC Laboratory Manager** 

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2023-05-18		Original			

Authorized for issue by:			
	Calvin Weng		
	Calvin Weng/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer	-	



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#### 2 **Test Summary**

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted 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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		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
Duty Cycle		ANSI C63.10 (2013) Section 11.6	ANSI C63.10 (2013) Section 11.6	Pass



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## **General Information**

## Details of E.U.T.

Power supply:	DC3.8V by Li-ion battery(2000mAh)		
	Recharged by AC/DC power adapter		
	Adapter M/N:SW-0018C		
	Adapter Input: AC100-240V, 50/60Hz,0.2A		
	Adapter Output: DC5V/1A		
Cable(s):	USB cable: 1.2m unshielded cable without ferrite core		
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz		
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7		
Channel Spacing:	5MHz		
Antenna Type:	PIFA Antenna		
Antenna Gain:	0.76dBi		

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
The EUT has been tested as an independent unit.						

## 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Conducted Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB
Duty Cycle	± 3%



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#### 4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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#### **Equipment List** 5

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

Conducted Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
Power Sensor	TST PASS	TSPS2023R	SEM009-22	2022-09-21	2023-09-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30	

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30	

Power Spectrum Density									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19				
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07				
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30				



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Conducted Band Edges Measurement									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19				
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30				

Conducted Spurious Emissions									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19				
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30				

Radiated Emissions which fall in the restricted bands									
Equipment	Manufacturer	cturer Model No. Inventory No. Cal Date Cal Due I							
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01				
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19				
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23				
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07				
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09				
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19				

Radiated Spurious Emissions Below 1GHz								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29			



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3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07

Radiated Spurious Emissions Above 1GHz								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01			
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19			
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23			
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07			

Duty Cycle									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19				
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07				
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30				

General used equipment								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03			
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22			



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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

#### 15.203 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.

#### **EUT Antenna:**

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.76dBi.

Antenna location: Refer to external photos



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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:

Fraguency of emission/MUT)	Conducted limit(dBμV)					
Frequency of emission(MHz)	Quasi-peak         Average           66 to 56*         56 to 46*           56         46           60         50	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 30	MHz				

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

Operating Environment:

Temperature: 22.1 °C Humidity: 50.4 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

7.11.2 103010		
Pre-scan / Final test	Mode Code	Description
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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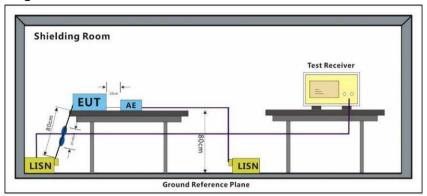


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#### 7.1.3 Test Setup Diagram



#### 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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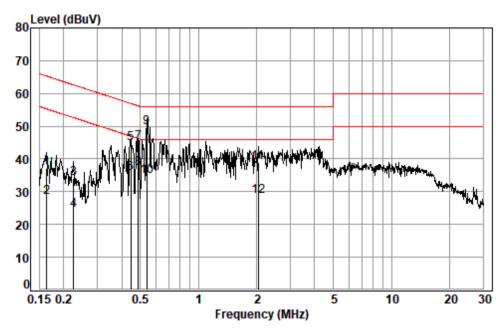


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Test Mode: 08; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 00926AT

Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	——dB	
1	0.1633	0.03	9.76	27.18	36.97	65.30	-28.33	QP
2	0.1633	0.03	9.76	18.54	28.33	55.30	-26.97	Average
3	0.2256	0.04	9.76	24.28	34.08	62.61	-28.53	QP
4	0.2256	0.04	9.76	14.48	24.28	52.61	-28.33	Average
5	0.4468	0.05	9.76	35.00	44.81	56.93	-12.12	QP
6	0.4468	0.05	9.76	25.69	35.50	46.93	-11.43	Average
7	0.4889	0.05	9.76	35.30	45.11	56.19	-11.08	QP
8 *	0.4889	0.05	9.76	27.22	37.03	46.19	-9.16	Average
9 *	0.5407	0.06	9.76	39.88	49.70	56.00	-6.30	QP
10	0.5407	0.06	9.76	24.86	34.68	46.00	-11.32	Average
11	2.0441	0.11	9.82	28.99	38.92	56.00	-17.08	QP
12	2.0441	0.11	9.82	18.71	28.64	46.00	-17.36	Average



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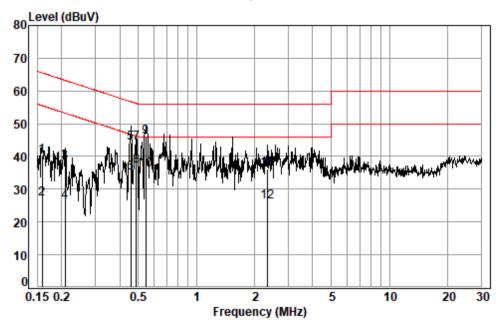


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Test Mode: 08; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 00926AT

Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.03	9.74	30.33	40.10	65.52	-25.42	QP
2	0.1590	0.03	9.74	17.17	26.94	55.52	-28.58	Average
3	0.2083	0.04	9.73	28.64	38.41	63.27	-24.86	QP
4	0.2083	0.04	9.73	16.39	26.16	53.27	-27.11	Average
5	0.4564	0.05	9.74	34.36	44.15	56.76	-12.61	QP
6	0.4564	0.05	9.74	25.21	35.00	46.76	-11.76	Average
7	0.4889	0.05	9.74	34.30	44.09	56.19	-12.10	QP
8 *	0.4889	0.05	9.74	27.23	37.02	46.19	-9.17	Average
9 *	0.5464	0.06	9.74	36.03	45.83	56.00	-10.17	QP
10	0.5464	0.06	9.74	26.11	35.91	46.00	-10.09	Average
11	2.3213	0.11	9.80	26.19	36.10	56.00	-19.90	QP
12	2.3213	0.11	9.80	16.33	26.24	46.00	-19.76	Average



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### 7.2 Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

## 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 44.4 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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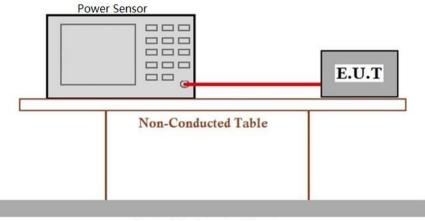


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#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

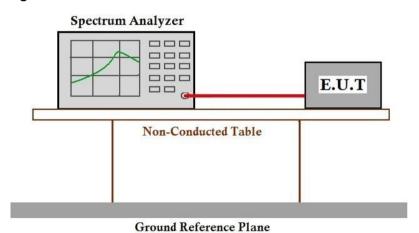
Operating Environment:

Temperature: 23.9 °C Humidity: 44.4 % RH Atmospheric Pressure: 1015 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. 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 for Details



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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

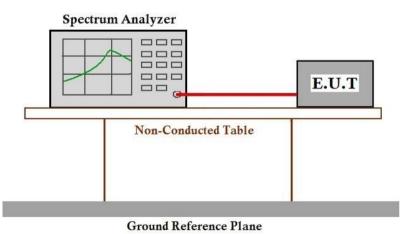
Operating Environment:

Temperature: 23.9 °C Humidity: 44.4 % RH Atmospheric Pressure: 1015 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

## 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

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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: 44.4 % RH Atmospheric Pressure: 1015 mbar

#### 7.5.2 Test Mode Description

7.0.2 Test mode bescription						
Pre-scan / Final test	Mode Code	Description				
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				



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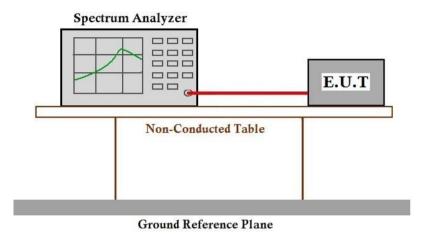


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#### 7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15. Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.11 Test Method:

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 Atmospheric Pressure: 1015 mbar Humidity: 44.4 % RH

#### 7.6.2 Test Mode Description

7.0.2 Test mode Description						
Pre-scan / Final test	Mode Code	Description				
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				



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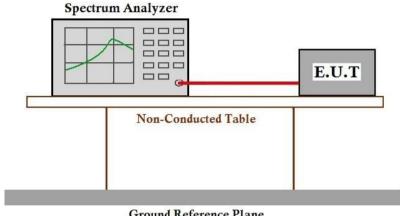


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#### 7.6.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

ANSI C63.10 (2013) Section 6.10.5 Test Method:

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:

20.8 °C Humidity: 60.4 % RH Temperature: Atmospheric Pressure: 1015 mbar

## 7.7.2 Test Mode Description

7.7.2 Test mode bescription						
Pre-scan / Final test	Mode Code	Description				
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				

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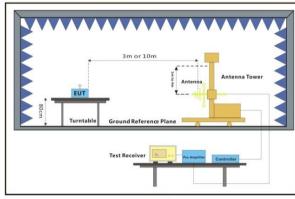


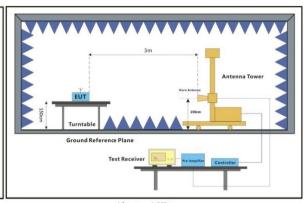
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#### 7.7.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

#### 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

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



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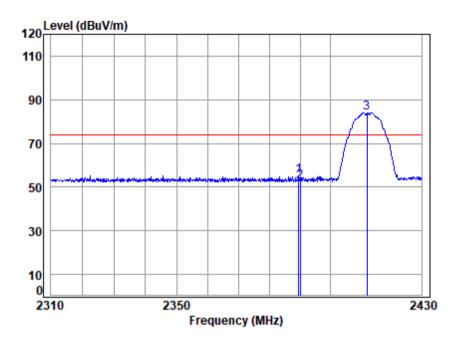


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	4.25	28.76	35.64	58.02	55.39	74.00	-18.61	peak
2	2390.000	4.25	28.76	35.64	55.08	52.45	74.00	-21.55	peak
3 q	2412.000	4.27	28.87	35.63	86.53	84.04	74.00	10.04	peak



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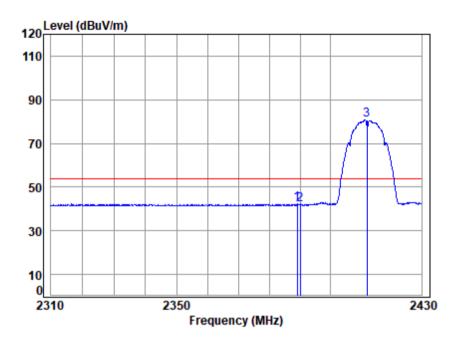


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.121	4.25	28.76	35.64	44.91	42.28	54.00	-11.72	Average
2	2390.000	4.25	28.76	35.64	44.73	42.10	54.00	-11.90	Average
3 q	2412.000	4.27	28.87	35.63	83.32	80.83	54.00	26.83	Average



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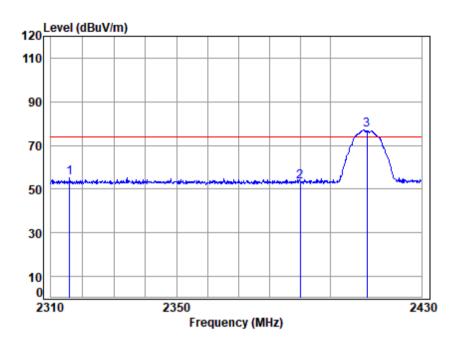


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2315.974	4.17	28.46	35.67	58.23	55.19	74.00	-18.81	Peak
2	2390.000	4.25	28.76	35.64	55.90	53.27	74.00	-20.73	Peak
3 q	2412.000	4.27	28.87	35.63	79.54	77.05	74.00	3.05	Peak



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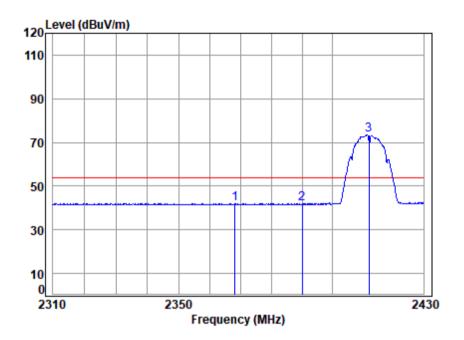


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2368.161	4.23	28.67	35.65	44.82	42.07	54.00	-11.93	Average
2	2390.000	4.25	28.76	35.64	44.63	42.00	54.00	-12.00	Average
3 q	2412.000	4.27	28.87	35.63	76.06	73.57	54.00	19.57	Average



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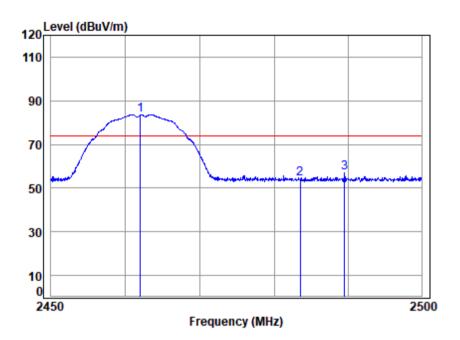


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
q	2462.000	4.32	29.17	35.62	85.68	83.55	74.00	9.55	peak
	2483.500	4.34	29.30	35.61	56.35	54.38	74.00	-19.62	peak
	2/189 517	4 35	29 34	35 61	58 92	57 00	74 99	-17 00	neak



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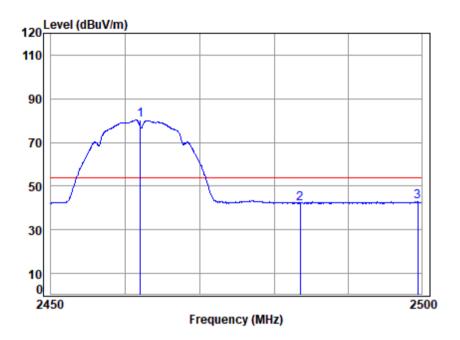


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	82.33	80.20	54.00	26.20	Average
2	2483.500	4.34	29.30	35.61	44.10	42.13	54.00	-11.87	Average
3	2499.495	4.36	29.40	35.60	44.61	42.77	54.00	-11.23	Average



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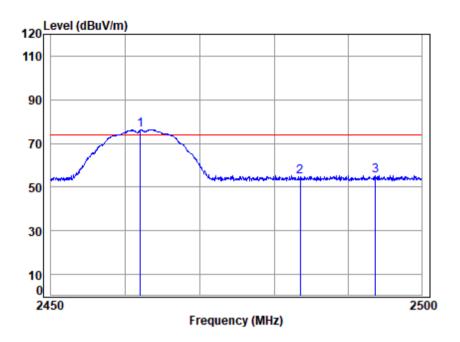


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	78.49	76.36	74.00	2.36	Peak
2	2483.500	4.34	29.30	35.61	56.60	54.63	74.00	-19.37	Peak
3	2493.745	4.35	29.36	35.60	57.32	55.43	74.00	-18.57	Peak



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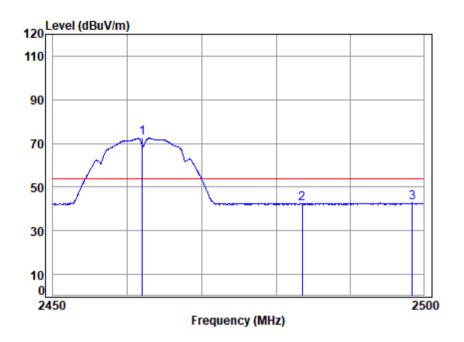


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
q	2462.000	4.32	29.17	35.62	74.55	72.42	54.00	18.42	Average	
2	2483.500	4.34	29.30	35.61	44.49	42.52	54.00	-11.48	Average	
	2498.485	4.36	29.39	35.60	44.61	42.76	54.00	-11.24	Average	



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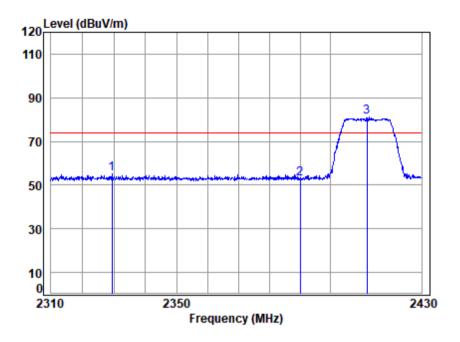


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2329.384	4.19	28.52	35.66	57.97	55.02	74.00	-18.98	peak
2	2390.000	4.25	28.76	35.64	55.58	52.95	74.00	-21.05	peak
3 0	2412.000	4.27	28.87	35.63	83.84	81.35	74.00	7.35	peak



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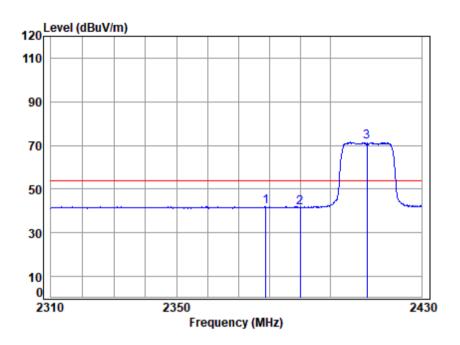


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2378.859	4.24	28.72	35.64	44.68	42.00	54.00	-12.00	Average
2	2390.000	4.25	28.76	35.64	44.25	41.62	54.00	-12.38	Average
3 q	2412.000	4.27	28.87	35.63	73.90	71.41	54.00	17.41	Average



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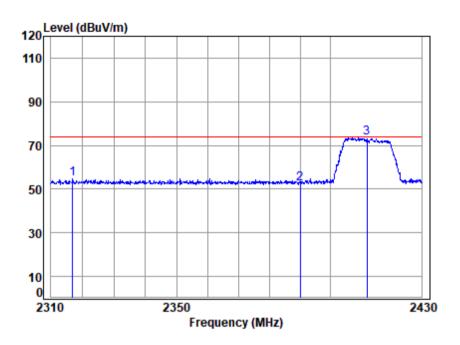


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2316.913	4.17	28.47	35.67	57.72	54.69	74.00	-19.31	Peak
2	2390.000	4.25	28.76	35.64	55.26	52.63	74.00	-21.37	Peak
3 q	2412.000	4.27	28.87	35.63	76.18	73.69	74.00	-0.31	Peak



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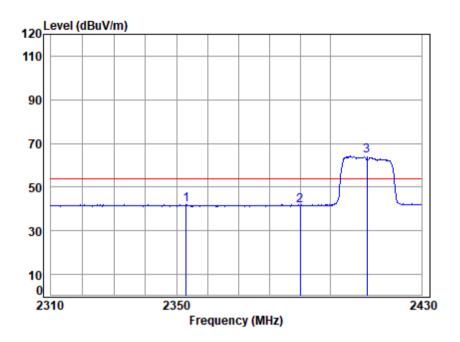


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
	2353.097								_
2 3 q	2390.000 2412.000								_



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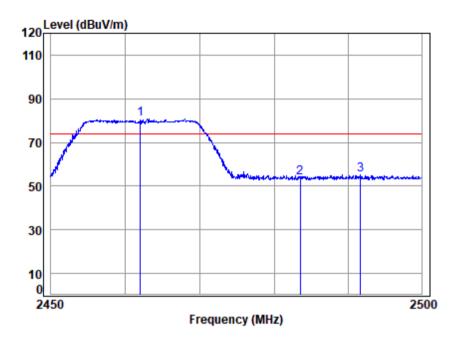


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11G

				Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
q	2462.000	4.32	29.17	35.62	82.93	80.80	74.00	6.80	peak	
2	2483.500	4.34	29.30	35.61	55.91	53.94	74.00	-20.06	peak	
}	2491.680	4.35	29.35	35.61	56.97	55.06	74.00	-18.94	peak	



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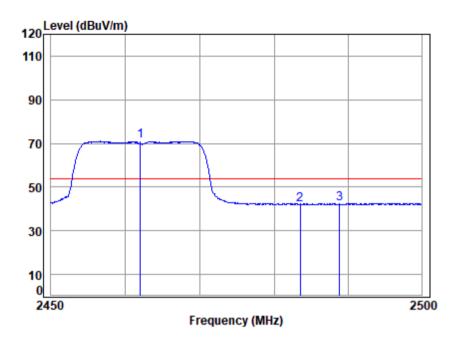


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	73.10	70.97	54.00	16.97	Average
2	2483.500	4.34	29.30	35.61	44.02	42.05	54.00	-11.95	Average
3	2488.863	4.35	29.33	35.61	44.55	42.62	54.00	-11.38	Average



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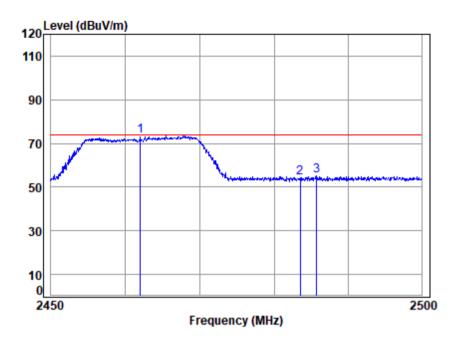


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	75.56	73.43	74.00	-0.57	Peak
2	2483.500	4.34	29.30	35.61	56.28	54.31	74.00	-19.69	Peak
3	2485.747	4.35	29.32	35.61	57.14	55.20	74.00	-18.80	Peak



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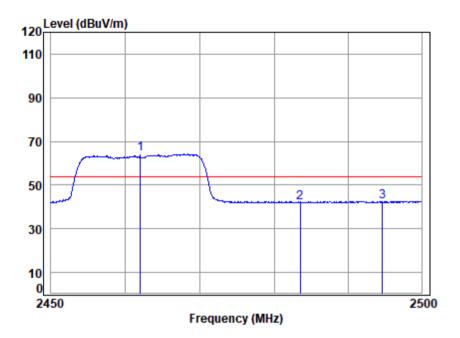


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11G

	. 2	+O MII	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
. q	2462.000	4.32	29.17	35.62	66.26	64.13	54.00	10.13	Average	
	2483.500	4.34	29.30	35.61	44.02	42.05	54.00	-11.95	Average	
3	2494.652	4.36	29.37	35.60	44.48	42.61	54.00	-11.39	Average	



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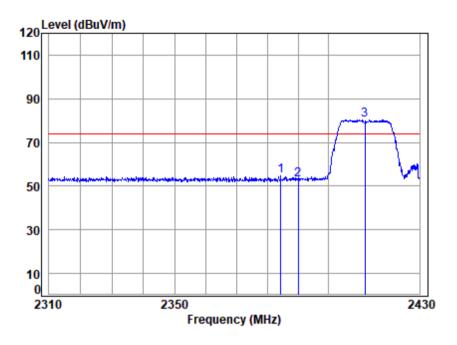


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2412 Band edge Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2384.286	4.24	28.74	35.64	57.34	54.68	74.00	-19.32	peak
2	2390.000	4.25	28.76	35.64	55.73	53.10	74.00	-20.90	peak
3 q	2412.000	4.27	28.87	35.63	83.00	80.51	74.00	6.51	peak



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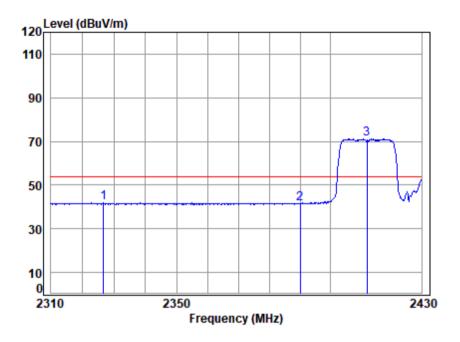


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Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2326.672	4.18	28.51	35.66	44.93	41.96	54.00	-12.04	Average
2	2390.000	4.25	28.76	35.64	43.97	41.34	54.00	-12.66	Average
3 q	2412.000	4.27	28.87	35.63	73.57	71.08	54.00	17.08	Average



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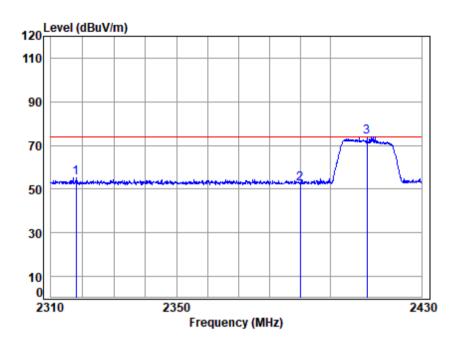


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400092603

Page: 44 of 122

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2317.969	4.17	28.47	35.67	58.45	55.42	74.00	-18.58	Peak
2	2390.000	4.25	28.76	35.64	55.25	52.62	74.00	-21.38	Peak
3 q	2412.000	4.27	28.87	35.63	76.31	73.82	74.00	-0.18	Peak



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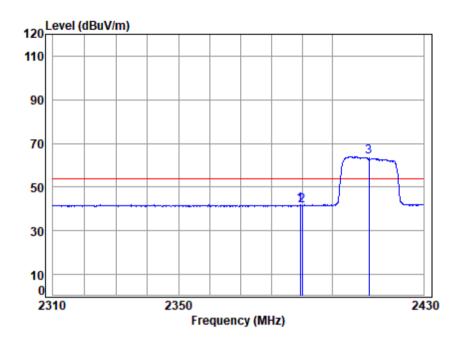


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.363	4.25	28.76	35.64	44.61	41.98	54.00	-12.02	Average
2	2390.000	4.25	28.76	35.64	44.25	41.62	54.00	-12.38	Average
3 q	2412.000	4.27	28.87	35.63	66.53	64.04	54.00	10.04	Average



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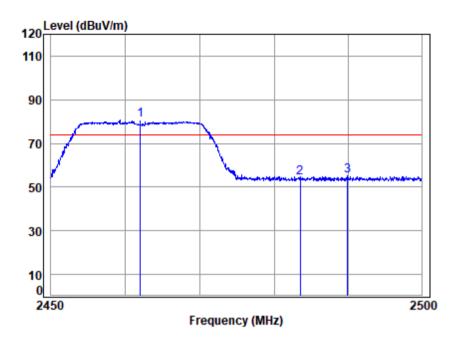


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11N20

			Preamp					
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dВ	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2462.000	4 32	29 17	35 62	82 77	80 64	74 00	6 64	neak
2 2483.500								•
3 2489.919								•



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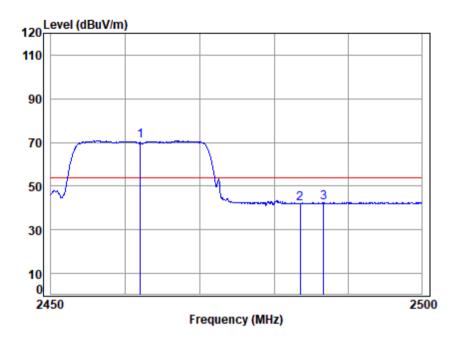


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11N20

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	2462.000	4.32	29.17	35.62	72.93	70.80	54.00	16.80	Average
2		2483.500	4.34	29.30	35.61	44.02	42.05	54.00	-11.95	Average
3		2486.702	4.35	29.32	35.61	44.40	42.46	54.00	-11.54	Average



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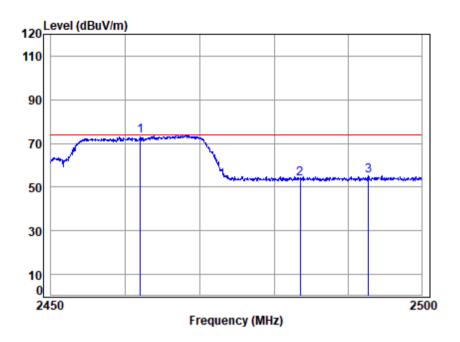


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11N20

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	2462.000	4.32	29.17	35.62	75.59	73.46	74.00	-0.54	Peak
2		2483.500	4.34	29.30	35.61	55.87	53.90	74.00	-20.10	Peak
3		2492.788	4.35	29.36	35.61	57.01	55.11	74.00	-18.89	Peak



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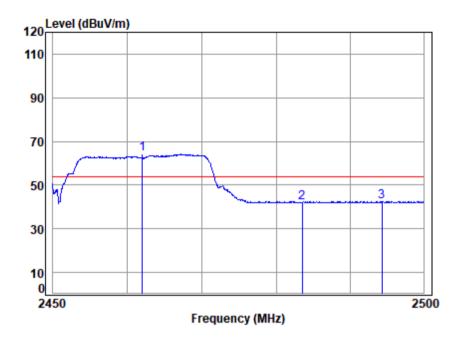


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2462 Band edge Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2	2462.000 2483.500								_
_	2494.299								_



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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

#### 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: 20.5 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

#### 7.8.2 Test Mode Description

7.8.2 Test IV	loue De	scription
Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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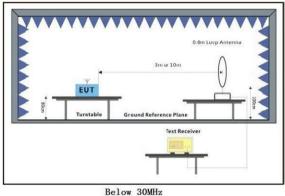


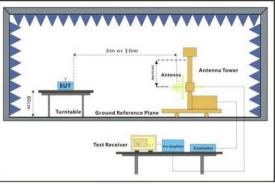
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#### 7.8.3 Test Setup Diagram





30MHz-1GHz

#### 7.8.4 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. 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.
- 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 quasi-peak 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 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.



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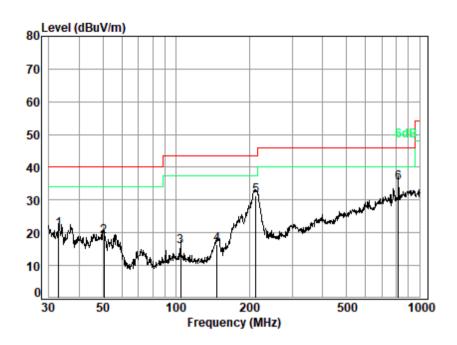


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Test Mode: 08; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00926AT

Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.98	19.55	0.64	27.22	27.91	20.88	40.00	-19.12	QP
2	50.41	12.49	0.79	27.17	32.61	18.72	40.00	-21.28	QP
3	104.17	12.96	1.16	26.98	28.63	15.77	43.50	-27.73	QP
4	146.89	12.69	1.40	26.81	29.18	16.46	43.50	-27.04	QP
5	213.02	15.43	1.75	26.55	40.58	31.21	43.50	-12.29	QP
6 q	818.83	26.98	3.73	26.22	30.87	35.36	46.00	-10.64	QP



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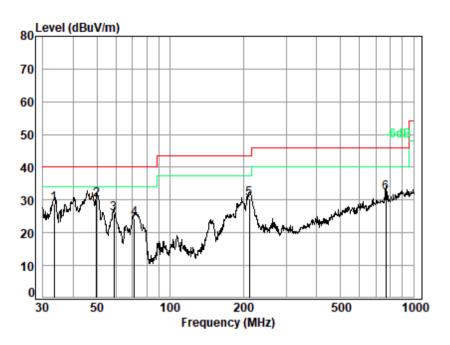


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Test Mode: 08; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 00926AT

Test Mode: 08

	Freq		Cable Loss						Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	33.44	19.24	0.64	27.22	36.16	28.82	40.00	-11.18	QP
2 q	49.71	12.60	0.79	27.17	43.91	30.13	40.00	-9.87	QP
3	58.61	11.42	0.84	27.14	40.61	25.73	40.00	-14.27	QP
4	71.33	10.31	0.95	27.10	40.12	24.28	40.00	-15.72	QP
5	211.53	15.41	1.74	26.55	39.81	30.41	43.50	-13.09	QP
6		26 64	3 59	26 43	28 54	32 34	46 00	-13 66	OP



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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

Measurement Distance: 3m

Limit:

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

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

Operating Environment:

Temperature: 21.2 °C Humidity: 63.7 % RH Atmospheric Pressure: 1015 mbar

### 7.9.2 Test Mode Description

7.9.2 Test IV	ioue De	scription
Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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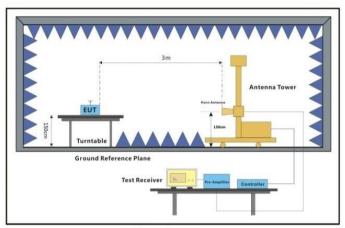


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### 7.9.3 Test Setup Diagram



Above 1GHz



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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.



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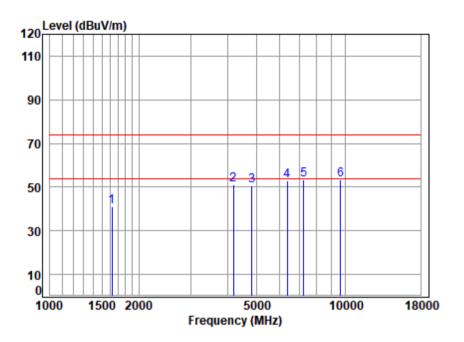


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2412 RSE TX

: 2.4G WTFT 11B

		. 2	+G MIL	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1	1620.431	3.39	26.58	36.58	47.65	41.04	74.00	-32.96	peak	
2	4	4181.768	6.47	33.29	34.46	45.91	51.21	74.00	-22.79	peak	
3	4	4824.000	7.06	33.90	34.88	44.43	50.51	74.00	-23.49	peak	
4	6	6377.195	8.22	35.25	35.38	44.99	53.08	74.00	-20.92	peak	
5	7	7236.000	8.54	35.80	35.95	44.78	53.17	74.00	-20.83	peak	
6	a c	9648.000	10.41	37.10	35.55	41.21	53.17	74.00	-20.83	peak	



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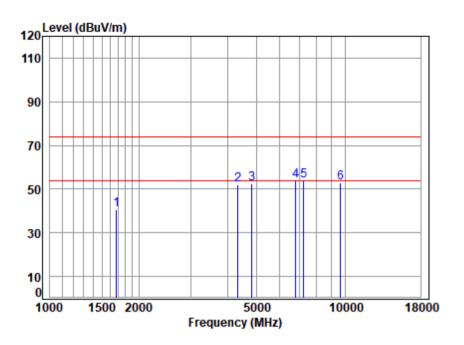


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2412 RSE TX

: 2.4G WIFI 11B

			TO MILI	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1677.621	3.46	26.76	36.45	46.64	40.41	74.00	-33.59	peak	
2		4329.354	6.61	33.60	34.56	46.19	51.84	74.00	-22.16	peak	
3		4824.000	7.06	33.90	34.88	46.34	52.42	74.00	-21.58	peak	
4	q	6795.879	8.29	35.50	35.74	45.58	53.63	74.00	-20.37	peak	
5		7236.000	8.54	35.80	35.95	45.22	53.61	74.00	-20.39	peak	
6		9648 000	10.41	37 10	35 55	41 13	53 09	74 00	-20 91	neak	



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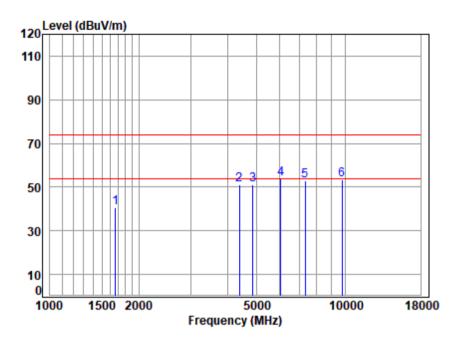


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2437 RSE TX

: 2.4G WIFI 11B

			TO WILL	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1667.951	3.45	26.74	36.47	46.89	40.61	74.00	-33.39	peak	
2		4392.376	6.67	33.52	34.60	45.68	51.27	74.00	-22.73	peak	
3		4874.000	7.10	34.05	34.91	44.82	51.06	74.00	-22.94	peak	
4	q	6053.894	8.17	35.01	35.09	45.59	53.68	74.00	-20.32	peak	
5		7311.000	8.61	35.90	35.97	44.54	53.08	74.00	-20.92	peak	
6		9748 000	10 45	37 20	35 56	41 43	53 52	74 00	-20 48	neak	



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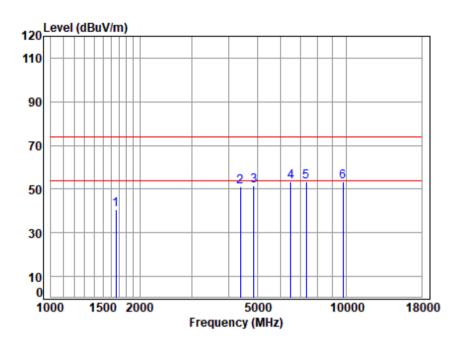


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2437 RSE TX

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
				•			•	•			
1		1663.137	3.45	26.73	36.48	46.86	40.56	74.00	-33.44	peak	
2		4379.699	6.66	33.54	34.59	45.42	51.03	74.00	-22.97	peak	
3		4874.000	7.10	34.05	34.91	45.10	51.34	74.00	-22.66	peak	
4		6488.754	8.24	35.48	35.48	44.93	53.17	74.00	-20.83	peak	
5		7311.000	8.61	35.90	35.97	44.67	53.21	74.00	-20.79	peak	
6	a	9748 000								•	



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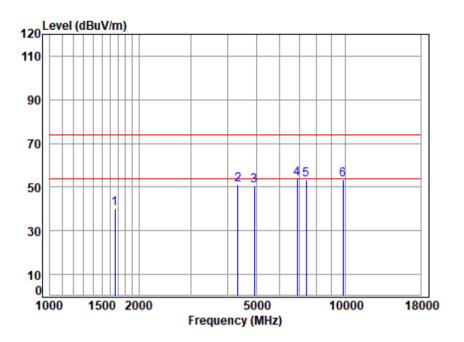


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2462 RSE TX

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1658.337	3.44	26.72	36.50	46.28	39.94	74.00	-34.06	peak	
2	4329.354	6.61	33.60	34.56	45.26	50.91	74.00	-23.09	peak	
3	4924.000	7.15	34.15	34.94	44.07	50.43	74.00	-23.57	peak	
4	q 6874.906	8.30	35.60	35.81	45.54	53.63	74.00	-20.37	peak	
5	7386.000	8.68	35.90	35.98	44.82	53.42	74.00	-20.58	peak	
6	9848 000	10 49	37 30	35 57	/11 19	53 /11	7/ 00	-20 59	neak	



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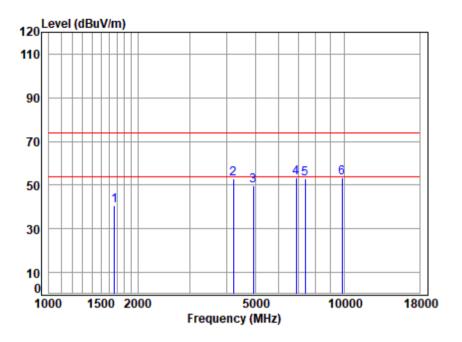


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Test Mode: 08; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2462 RSE TX

: 2.4G WTFT 11B

		. 2	+Q MIL	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB		
1		1667.951	3.45	26.74	36.47	46.95	40.67	74.00	-33.33	peak	
2		4218.186	6.50	33.47	34.48	47.49	52.98	74.00	-21.02	peak	
3		4924.000	7.15	34.15	34.94	43.41	49.77	74.00	-24.23	peak	
4	q	6874.906	8.30	35.60	35.81	45.38	53.47	74.00	-20.53	peak	
5		7386.000	8.68	35.90	35.98	44.29	52.89	74.00	-21.11	peak	
6		9848.000	10.49	37.30	35.57	41.11	53.33	74.00	-20.67	peak	



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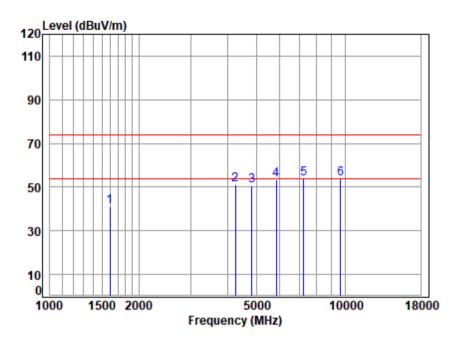


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Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2412 RSE TX

: 2.4G WIFI 11G

		Freq			Preamp Factor		Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1597.181	3.37	26.47	36.64	47.89	41.09	74.00	-32.91	peak
2		4254.921	6.54	33.60	34.51	45.62	51.25	74.00	-22.75	peak
3		4824.000	7.06	33.90	34.88	44.53	50.61	74.00	-23.39	peak
4		5847.517	8.03	34.70	35.03	45.85	53.55	74.00	-20.45	peak
5		7236.000	8.54	35.80	35.95	45.35	53.74	74.00	-20.26	peak
6	q	9648.000	10.41	37.10	35.55	41.83	53.79	74.00	-20.21	peak



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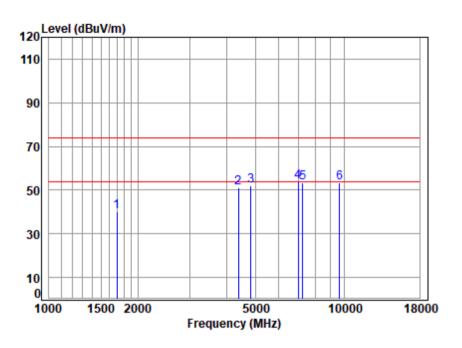


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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2412 RSE TX

: 2.4G WTFT 11G

		. 2	+Q MIL	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
											_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1702.042	3.49	26.80	36.40	46.41	40.30	74.00	-33.70	peak	
2		4379.699	6.66	33.54	34.59	45.50	51.11	74.00	-22.89	peak	
3		4824.000	7.06	33.90	34.88	45.90	51.98	74.00	-22.02	peak	
4	q	6974.982	8.32	35.75	35.89	45.44	53.62	74.00	-20.38	peak	
5	Ī	7236.000	8.54	35.80	35.95	45.05	53.44	74.00	-20.56	peak	
6		9648.000	10.41	37.10	35.55	41.61	53.57	74.00	-20.43	peak	



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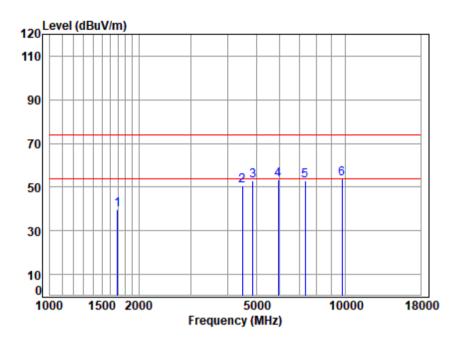


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400092603

Page: 65 of 122

Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2437 RSE TX

: 2.4G WIFI 11G

			TO WILL	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1692.231	3.48	26.78	36.42	46.05	39.89	74.00	-34.11	peak	
2		4482.150	6.75	33.50	34.66	45.24	50.83	74.00	-23.17	peak	
3		4874.000	7.10	34.05	34.91	46.90	53.14	74.00	-20.86	peak	
4		5932.638	8.10	34.87	35.04	45.58	53.51	74.00	-20.49	peak	
5		7311.000	8.61	35.90	35.97	44.54	53.08	74.00	-20.92	peak	
6	a	9748 000	10 45	37 20	35 56	41 80	53 89	74 00	-20 11	neak	



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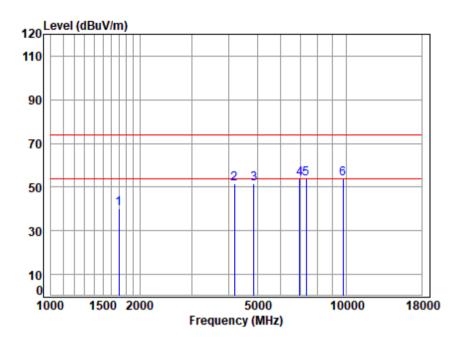


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Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2437 RSE TX

: 2.4G WIFI 11G

			TO WILL	1 110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1697.129	3.49	26.79	36.41	46.42	40.29	74.00	-33.71	peak
2		4181.768	6.47	33.29	34.46	46.23	51.53	74.00	-22.47	peak
3		4874.000	7.10	34.05	34.91	45.49	51.73	74.00	-22.27	peak
4		6954.852	8.31	35.71	35.87	45.62	53.77	74.00	-20.23	peak
5	q	7311.000	8.61	35.90	35.97	45.39	53.93	74.00	-20.07	peak
6		9748 000	10 45	37 20	35 56	41 61	53 70	74 99	-20 30	neak



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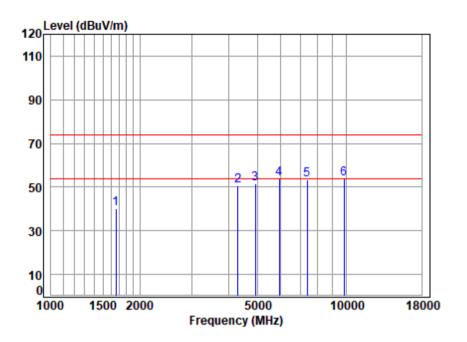


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Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2462 RSE TX

: 2.4G WIFI 11G

			TO WILL	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1663.137	3.45	26.73	36.48	46.40	40.10	74.00	-33.90	peak	
2		4304.400	6.59	33.60	34.54	45.09	50.74	74.00	-23.26	peak	
3		4924.000	7.15	34.15	34.94	45.06	51.42	74.00	-22.58	peak	
4		5932.638	8.10	34.87	35.04	45.69	53.62	74.00	-20.38	peak	
5		7386.000	8.68	35.90	35.98	44.97	53.57	74.00	-20.43	peak	
6	а	9848 000	10 49	37 30	35 57	41 66	53 88	74 99	-20 12	neak	



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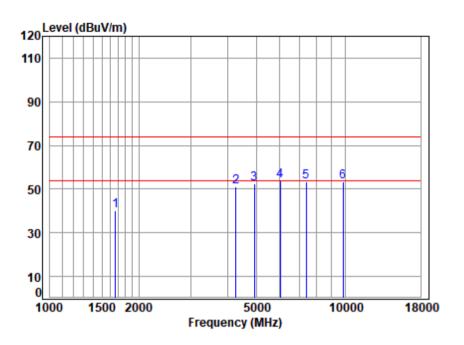


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Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2462 RSE TX

: 2.4G WIFI 11G

			TO WILL	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1667.951	3.45	26.74	36.47	46.65	40.37	74.00	-33.63	peak	
2		4267.237	6.55	33.60	34.52	45.32	50.95	74.00	-23.05	peak	
3		4924.000	7.15	34.15	34.94	46.02	52.38	74.00	-21.62	peak	
4	q	6018.999	8.16	35.00	35.06	45.53	53.63	74.00	-20.37	peak	
5	Ī	7386.000	8.68	35.90	35.98	44.70	53.30	74.00	-20.70	peak	
6		9848 000	10.49	37 30	35 57	41 00	53 22	74 00	-20 78	neak	



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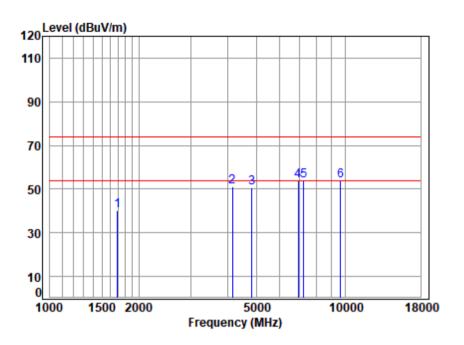


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2412 RSE TX

: 2.4G WIFI 11N20

			TO WILL	1 11112							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1692.231	3.48	26.78	36.42	46.15	39.99	74.00	-34.01	peak	
2		4145.664	6.43	33.09	34.43	45.97	51.06	74.00	-22.94	peak	
3		4824.000	7.06	33.90	34.88	44.49	50.57	74.00	-23.43	peak	
4		6934.778	8.31	35.67	35.86	45.60	53.72	74.00	-20.28	peak	
5		7236.000	8.54	35.80	35.95	45.32	53.71	74.00	-20.29	peak	
6	а	9648 000	10 41	37 10	35 55	41 83	53 79	74 00	-20 21	neak	



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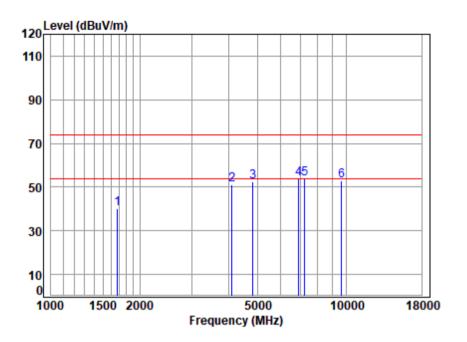


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Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2412 RSE TX

: 2.4G WIFI 11N20

		. 2.	TO WILL	1 11112	•					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1682.477	3.47	26.77	36.44	46.32	40.12	74.00	-33.88	peak
2		4109.872	6.39	33.02	34.41	45.94	50.94	74.00	-23.06	peak
3		4824.000	7.06	33.90	34.88	46.37	52.45	74.00	-21.55	peak
4	q	6914.763	8.31	35.63	35.84	45.74	53.84	74.00	-20.16	peak
5		7236.000	8.54	35.80	35.95	45.26	53.65	74.00	-20.35	peak
6		9648 000	10 41	37.10	35 55	40 97	52 93	74 99	-21 07	neak



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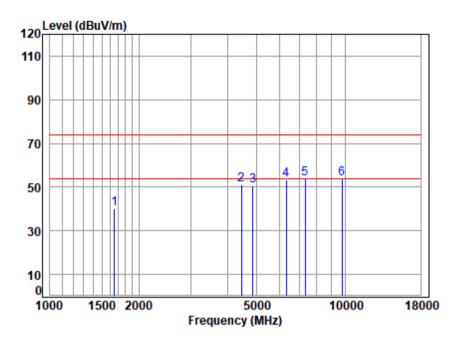


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2437 RSE TX

: 2.4G WIFI 11N20

	Frea			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	3.43	26.71	36.51	46.55	40.18	74.00	-33.82	peak
2	4456.315	6.73	33.50	34.64	45.61	51.20	74.00	-22.80	peak
3	4874.000	7.10	34.05	34.91	44.38	50.62	74.00	-23.38	peak
4	6322.136	8.21	35.20	35.34	45.44	53.51	74.00	-20.49	peak
5 q	7311.000	8.61	35.90	35.97	45.17	53.71	74.00	-20.29	peak
6	9748.000	10.45	37.20	35.56	41.55	53.64	74.00	-20.36	peak



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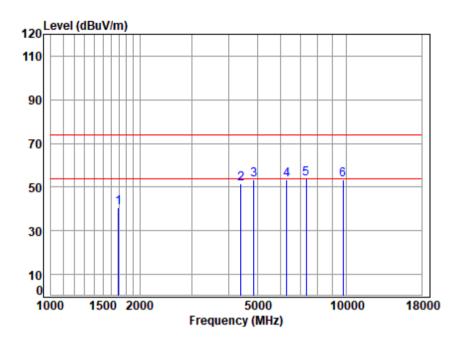


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2437 RSE TX

: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	3.48	26.78	36.42	46.82	40.66	74.00	-33.34	peak
2	4405.090	6.68	33.50	34.61	45.99	51.56	74.00	-22.44	peak
3	4874.000	7.10	34.05	34.91	47.30	53.54	74.00	-20.46	peak
4	6303.890	8.21	35.20	35.32	45.36	53.45	74.00	-20.55	peak
5 q	7311.000	8.61	35.90	35.97	45.28	53.82	74.00	-20.18	peak
6	9748.000	10.45	37.20	35.56	41.14	53.23	74.00	-20.77	peak



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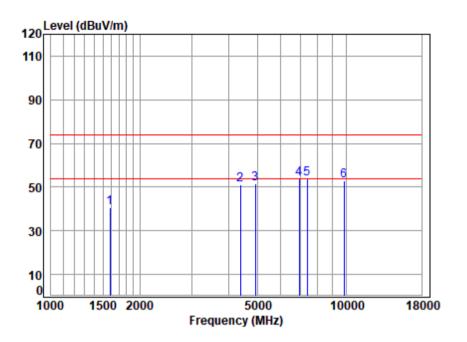


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Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2462 RSE TX

: 2.4G WIFI 11N20

	Frea			Preamp Factor					Remark
	1104	2033	ractor	raccor	LCVCI	LCVCI	LINC	LIMIT	Kelliul K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.35	26.30	36.67	47.74	40.72	74.00	-33.28	peak
2	4379.699	6.66	33.54	34.59	45.34	50.95	74.00	-23.05	peak
3	4924.000	7.15	34.15	34.94	45.06	51.42	74.00	-22.58	peak
4	6934.778	8.31	35.67	35.86	45.58	53.70	74.00	-20.30	peak
5 q	7386.000	8.68	35.90	35.98	45.15	53.75	74.00	-20.25	peak
6	9848.000	10.49	37.30	35.57	40.90	53.12	74.00	-20.88	peak



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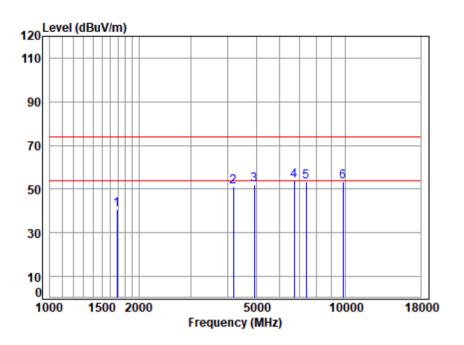


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Report No.: SZCR230400092603

Page: 74 of 122

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2462 RSE TX

: 2.4G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	3.47	26.77	36.43	46.78	40.59	74.00	-33.41	peak
2	4181.768	6.47	33.29	34.46	45.80	51.10	74.00	-22.90	peak
3	4924.000	7.15	34.15	34.94	45.88	52.24	74.00	-21.76	peak
4	q 6717.762	8.28	35.56	35.68	45.75	53.91	74.00	-20.09	peak
5	7386.000	8.68	35.90	35.98	44.89	53.49	74.00	-20.51	peak
6	9848.000	10.49	37.30	35.57	41.36	53.58	74.00	-20.42	peak



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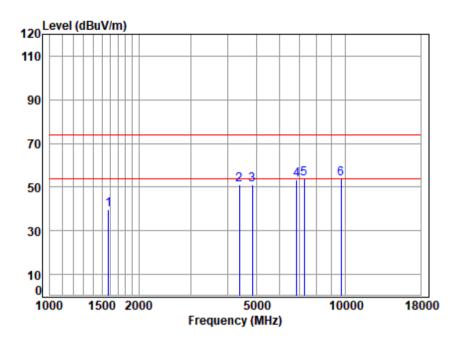


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2422 RSE TX

: 2.4G WIFI 11N40

		Freq			Preamp Factor		Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1578.822	3.34	26.25	36.68	46.80	39.71	74.00	-34.29	peak
2		4379.699	6.66	33.54	34.59	45.50	51.11	74.00	-22.89	peak
3		4844.000	7.08	33.98	34.89	44.91	51.08	74.00	-22.92	peak
4		6855.063	8.30	35.60	35.79	45.36	53.47	74.00	-20.53	peak
5		7266.000	8.57	35.83	35.96	45.30	53.74	74.00	-20.26	peak
6	q	9688.000	10.42	37.10	35.56	42.00	53.96	74.00	-20.04	peak



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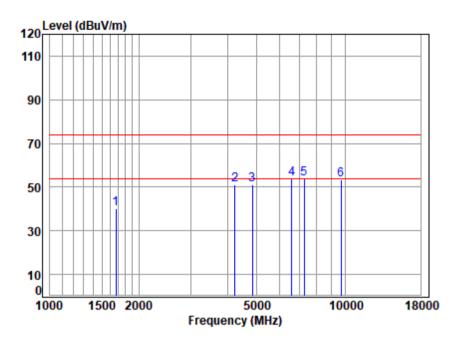


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Report No.: SZCR230400092603

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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2422 RSE TX

: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	3.46	26.75	36.46	46.57	40.32	74.00	-33.68	peak
2	4230.396	6.51	33.52	34.49	45.62	51.16	74.00	-22.84	peak
3	4844.000	7.08	33.98	34.89	44.84	51.01	74.00	-22.99	peak
4	q 6602.265	8.26	35.60	35.58	45.49	53.77	74.00	-20.23	peak
5	7266.000	8.57	35.83	35.96	45.24	53.68	74.00	-20.32	peak
6	9688.000	10.42	37.10	35.56	41.38	53.34	74.00	-20.66	peak



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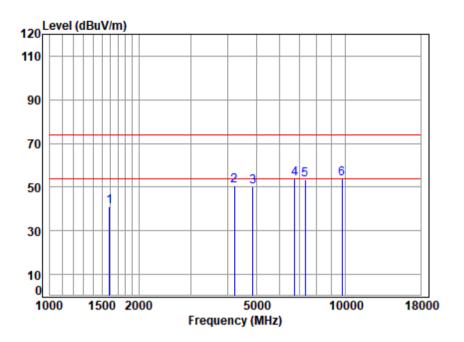


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2437 RSE TX

: 2.4G WIFI 11N40

		Freq			Preamp Factor		Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1592.571	3.36	26.41	36.65	47.78	40.90	74.00	-33.10	peak
2		4218.186	6.50	33.47	34.48	44.97	50.46	74.00	-23.54	peak
3		4874.000	7.10	34.05	34.91	43.87	50.11	74.00	-23.89	peak
4		6756.708	8.28	35.50	35.71	45.82	53.89	74.00	-20.11	peak
5		7311.000	8.61	35.90	35.97	44.77	53.31	74.00	-20.69	peak
6	q	9748.000	10.45	37.20	35.56	41.83	53.92	74.00	-20.08	peak



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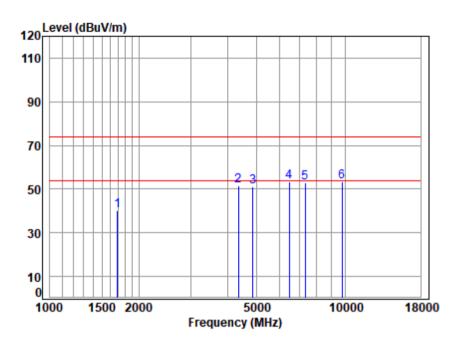


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2437 RSE TX

· 2 4G WTFT 11N40

	. 2	+Q MIL	T TTIA-4	0						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1692.231	3.48	26.78	36.42	46.49	40.33	74.00	-33.67	peak	
2	4354.454	6.63	33.59	34.58	46.00	51.64	74.00	-22.36	peak	
3	4874.000	7.10	34.05	34.91	44.73	50.97	74.00	-23.03	peak	
4	q 6470.026	8.24	35.44	35.47	45.12	53.33	74.00	-20.67	peak	
5	7311.000	8.61	35.90	35.97	44.58	53.12	74.00	-20.88	peak	
6	9748.000	10.45	37.20	35.56	41.09	53.18	74.00	-20.82	peak	



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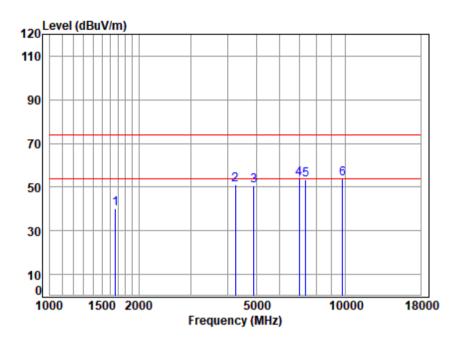


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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00926AT

Mode : 2452 RSE TX

: 2.4G WIFI 11N40

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	3.45	26.74	36.47	46.66	40.38	74.00	-33.62	peak
2	4254.921	6.54	33.60	34.51	45.43	51.06	74.00	-22.94	peak
3	4904.000	7.13	34.11	34.92	44.19	50.51	74.00	-23.49	peak
4	q 6974.982	8.32	35.75	35.89	45.67	53.85	74.00	-20.15	peak
5	7356.000	8.65	35.90	35.98	44.94	53.51	74.00	-20.49	peak
6	9808 000	10 47	37 22	35 57	/11 52	53 64	7/ 00	-20 36	neak



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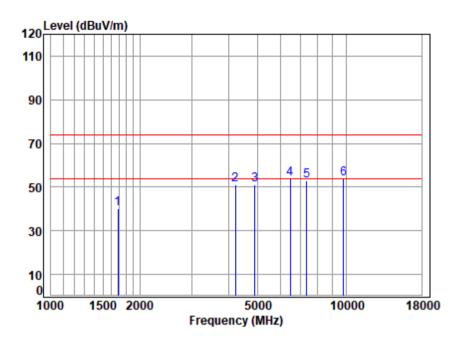


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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00926AT

Mode : 2452 RSE TX

: 2.4G WTFT 11N40

	. 2	+G MIL	T TTIA-4	0						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1687.347	3.47	26.77	36.43	46.38	40.19	74.00	-33.81	peak	
2	4218.186	6.50	33.47	34.48	45.83	51.32	74.00	-22.68	peak	
3	4904.000	7.13	34.11	34.92	44.71	51.03	74.00	-22.97	peak	
4	6470.026	8.24	35.44	35.47	45.44	53.65	74.00	-20.35	peak	
5	7356.000	8.65	35.90	35.98	44.56	53.13	74.00	-20.87	peak	
6	a 9808.000	10.47	37.22	35.57	41.53	53.65	74.00	-20.35	neak	



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#### 7.10 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 11.6
Test Method: ANSI C63.10 (2013) Section 11.6

Limit:

N/A

#### 7.10.1 E.U.T. Operation

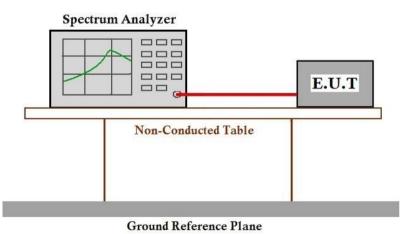
Operating Environment:

Temperature: 23.9 °C Humidity: 44.4 % RH Atmospheric Pressure: 1015 mbar

7.10.2 Test Mode Description

7110.2 1000		
Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.10.3 Test Setup Diagram



#### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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# 8 Test Setup Photo

Refer to Appendix - Photographs of Test Setup for SZCR2304000926AT

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2304000926AT.



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# 10 Appendix

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

	Ant1										
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)				
		2412	12.426	12.543	99.07	0.04	0.72				
802.11b	SISO	2437	12.417	12.587	98.65	0.06	0.98				
		2462	12.420	12.573	98.78	0.05	0.95				
		2412	2.072	2.361	87.76	0.57	10.87				
802.11g	SISO	2437	2.073	2.400	86.37	0.64	11.38				
		2462	2.075	2.340	88.68	0.52	9.21				
000.44		2412	0.544	0.562	96.80	0.14	0.04				
802.11n (HT20)	SISO	2437	0.544	0.562	96.80	0.14	0.04				
(11120)		2462	0.544	0.562	96.80	0.14	0.04				
000.44		2422	2.469	2.495	98.96	0.05	0.03				
802.11n (HT40)	SISO	2437	2.468	2.493	99.00	0.04	0.03				
(11140)		2452	2.469	2.494	99.00	0.04	0.03				



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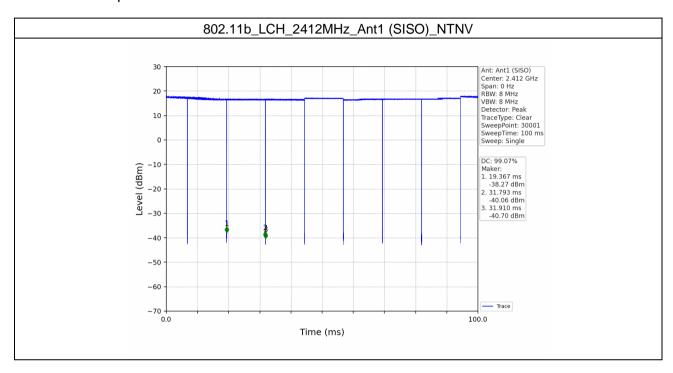


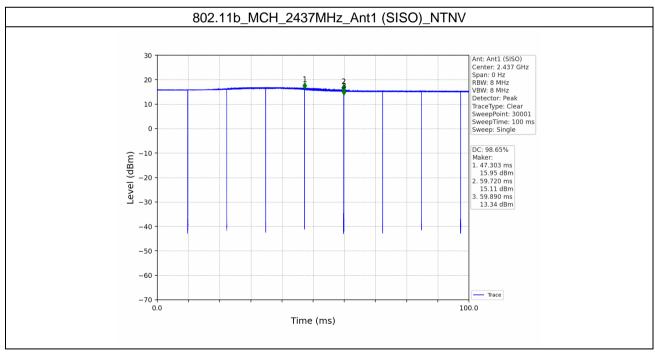
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#### 1.1.2 Test Graph







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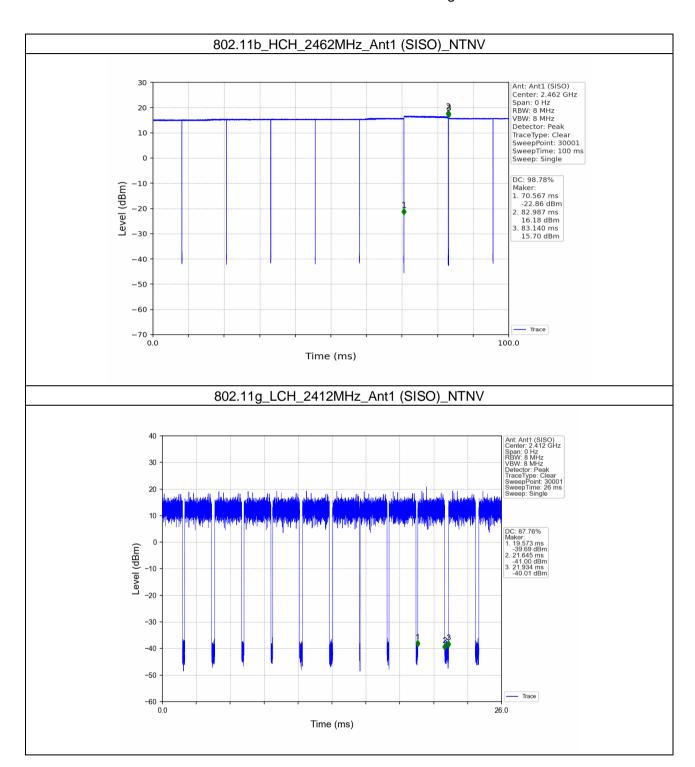
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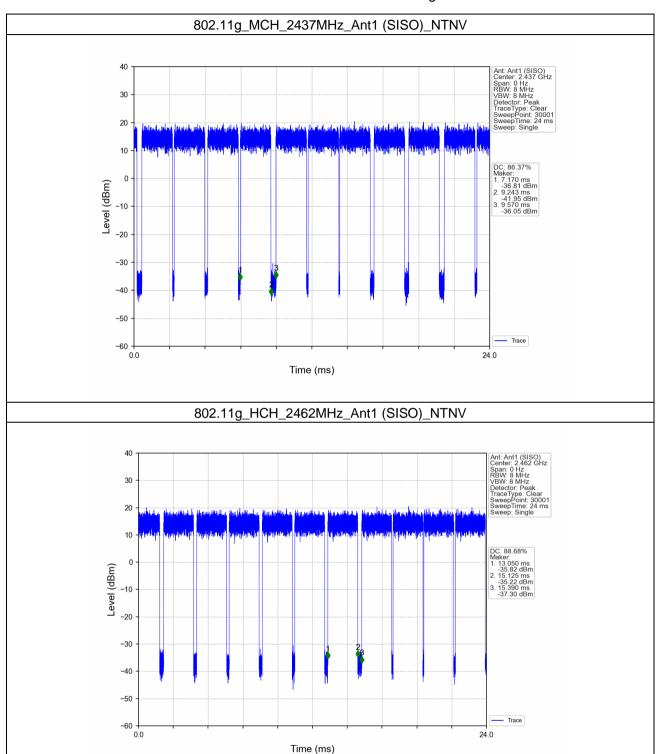
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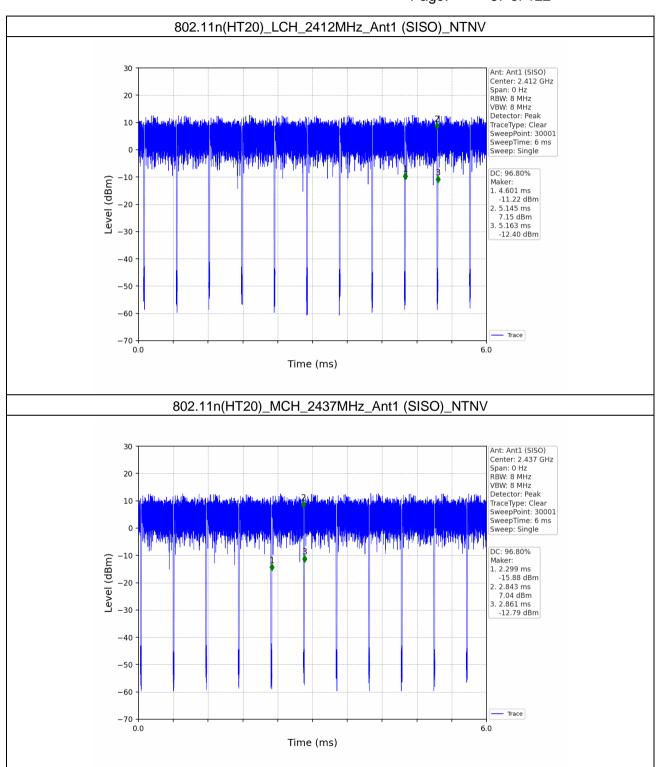
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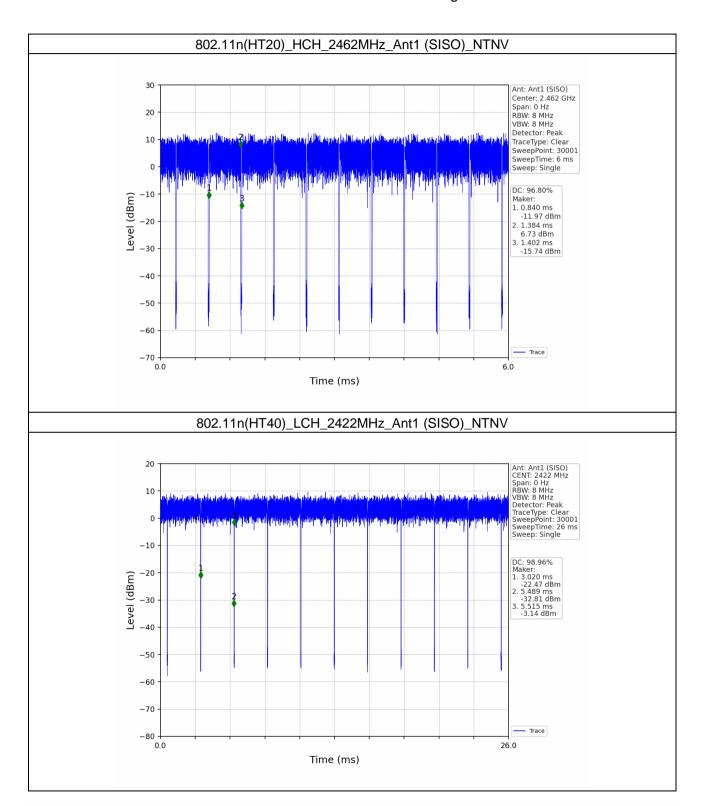
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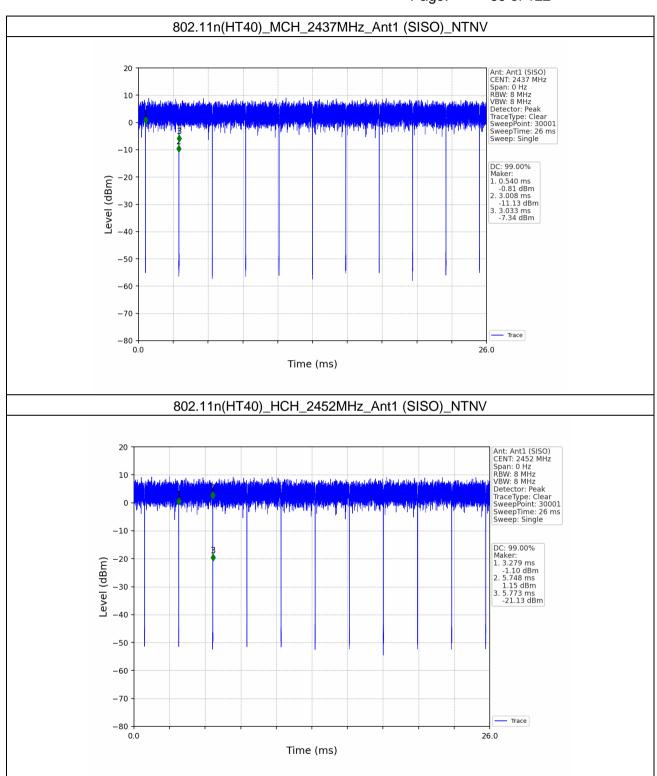
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#### 2. Bandwidth

#### 2.1 6dB BW

#### 2.1.1 Test Result

Mode	TX	Frequency	ANT	6dB Bandv	vidth (MHz)	Verdict
Mode	Type	(MHz)		Result	Limit	verdict
		2412	1	9.193	>=0.5	Pass
802.11b	SISO	2437	1	9.156	>=0.5	Pass Pass Pass Pass
		2462	1	9.550	>=0.5 Pass >=0.5 Pass	
		2412	1	16.300	>=0.5	Pass
802.11g	SISO	2437	1	16.344	>=0.5	Pass
		2462	1	16.064	>=0.5	Pass
000 44		2412	1	17.550	>=0.5	Pass
802.11n (HT20)	SISO	2437	1	17.052	>=0.5	Pass
(11120)		2462	1	17.564	>=0.5	Pass
000 44		2422	1	32.715	>=0.5	Pass
802.11n (HT40)	SISO	2437	1	32.714	>=0.5	Pass
(11140)		2452	1	32.707	>=0.5	Pass



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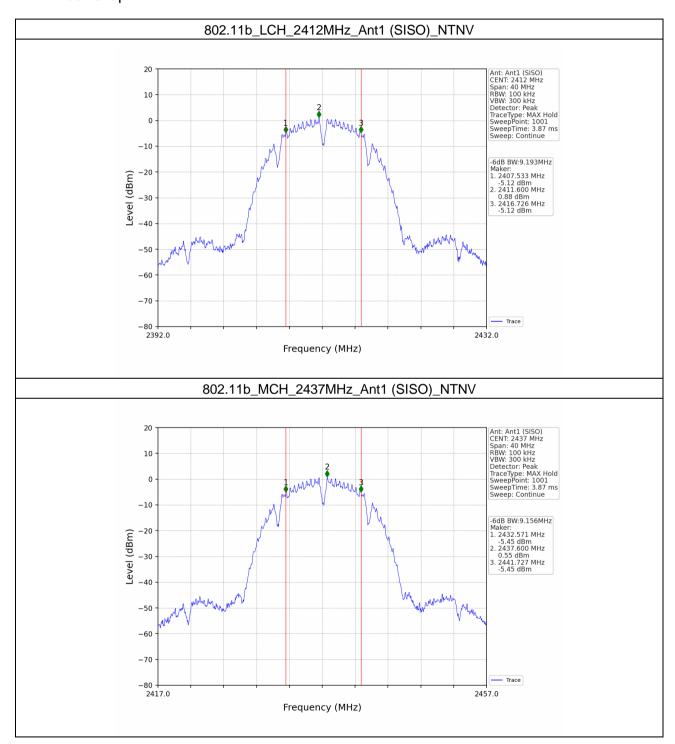


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#### 2.1.2 Test Graph





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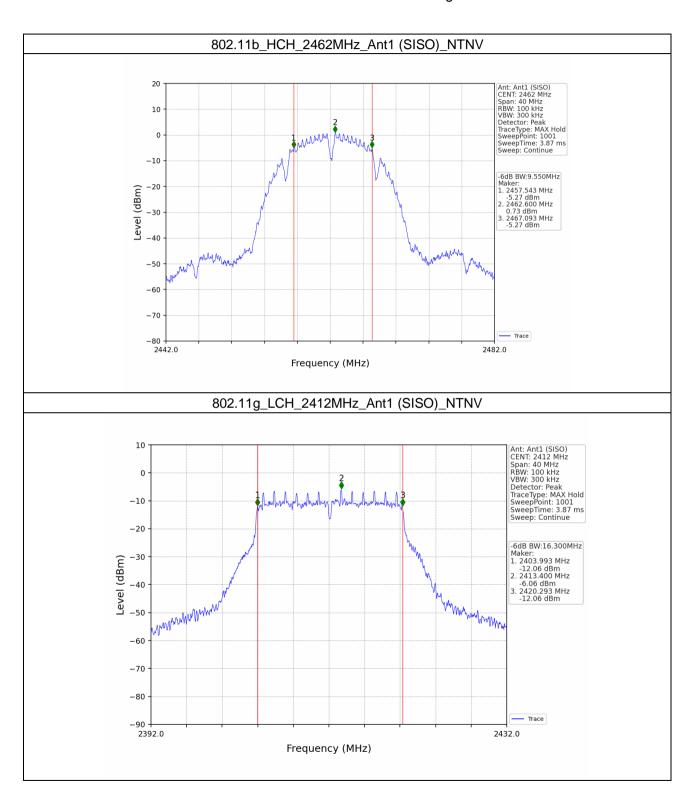
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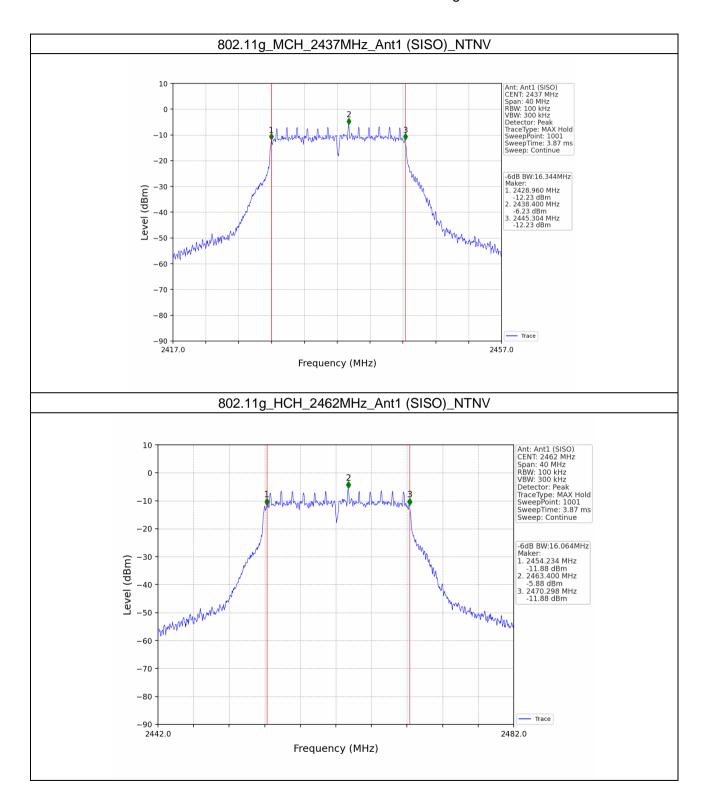
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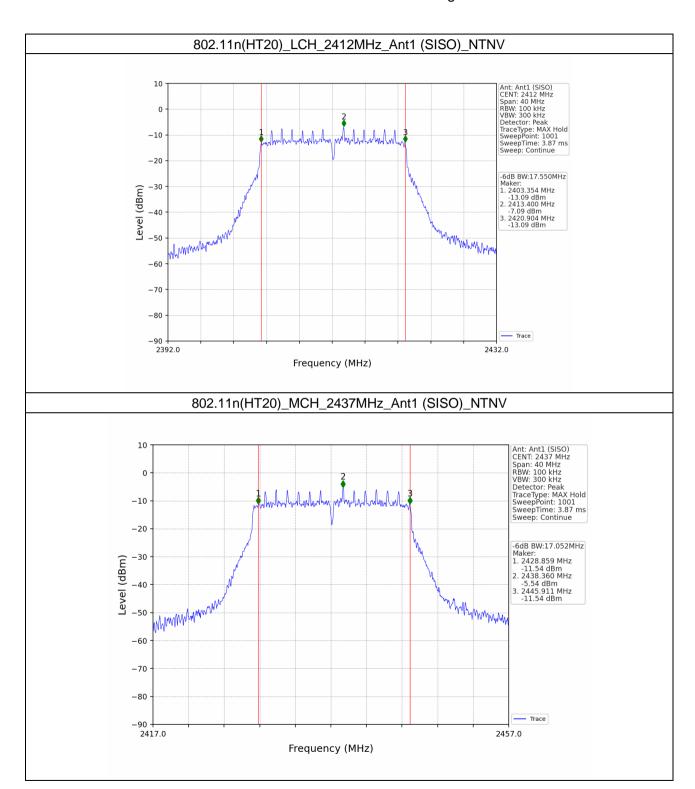
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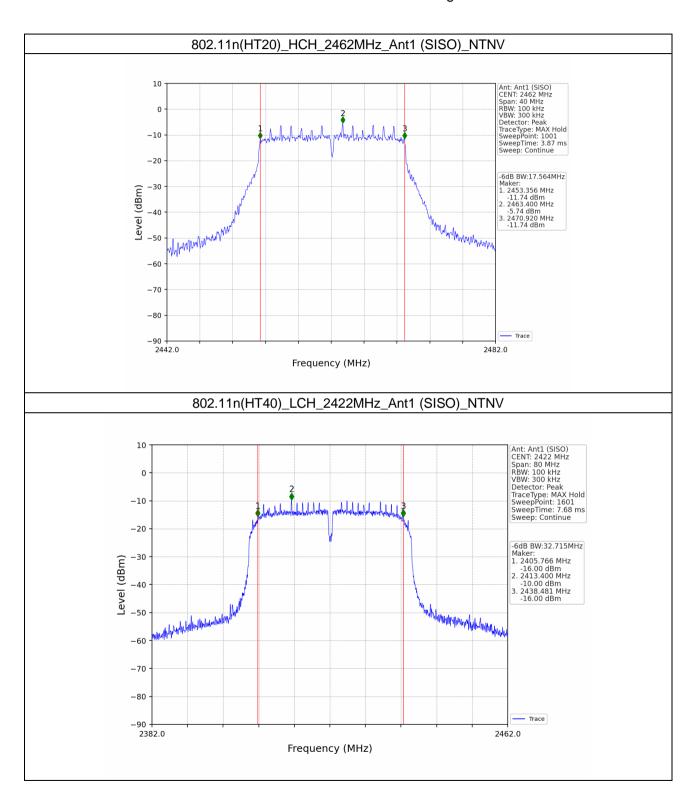
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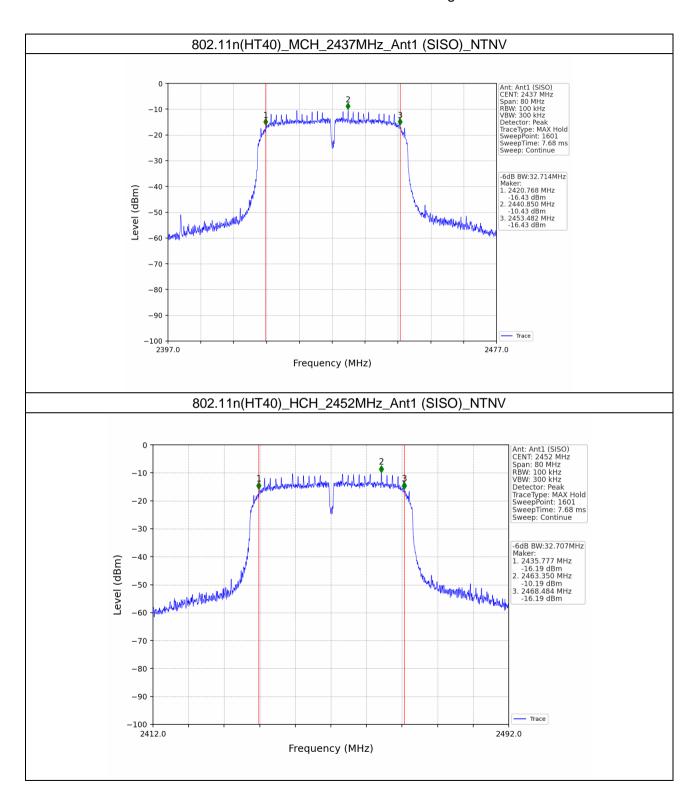
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# 3. Maximum Conducted Output Power

#### 3.1 Power

#### 3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduc	ted Output Power (dBm)	Verdict
iviode	Type	(MHz)	ANT1	Limit	verdict
		2412	13.05	<=30	Pass
802.11b	SISO	2437	12.74	<=30	Pass
		2462	13.19	<=30	Pass
		2412	11.92	<=30	Pass
802.11g	SISO	2437	11.80	<=30	Pass
		2462	12.00	<=30	Pass
		2412	12.14	<=30	Pass
802.11n (HT20)	SISO	2437	12.29	<=30	Pass
(11120)		2462	12.22	<=30	Pass
200.44		2422	11.34	<=30	Pass
802.11n (HT40)	SISO	2437	10.92	<=30	Pass
(11140)		2452	11.34	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum AV Conducte	Verdict	
			ANT1	Limit	verdict
802.11b	SISO	2412	9.36	<=30	Pass
		2437	9.18	<=30	Pass
		2462	9.78	<=30	Pass
802.11g	SISO	2412	7.61	<=30	Pass
		2437	7.35	<=30	Pass
		2462	7.26	<=30	Pass
802.11n (HT20)	SISO	2412	6.21	<=30	Pass
		2437	6.30	<=30	Pass
		2462	6.46	<=30	Pass
802.11n (HT40)	SISO	2422	5.30	<=30	Pass
		2437	5.29	<=30	Pass
		2452	5.50	<=30	Pass

Remark: AV power is for reporting only.



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## 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX	Frequency	Maximum PS	Verdict	
	Type	(MHz)	ANT1	Limit	verdict
802.11b	SISO	2412	-12.71	<=8	Pass
		2437	-12.76	<=8	Pass
		2462	-12.69	<=8	Pass
802.11g	SISO	2412	-21.99	<=8	Pass
		2437	-22.37	<=8	Pass
		2462	-21.32	<=8	Pass
802.11n (HT20)	SISO	2412	-21.43	<=8	Pass
		2437	-20.82	<=8	Pass
		2462	-20.53	<=8	Pass
802.11n (HT40)	SISO	2422	-23.35	<=8	Pass
		2437	-23.45	<=8	Pass
		2452	-23.53	<=8	Pass



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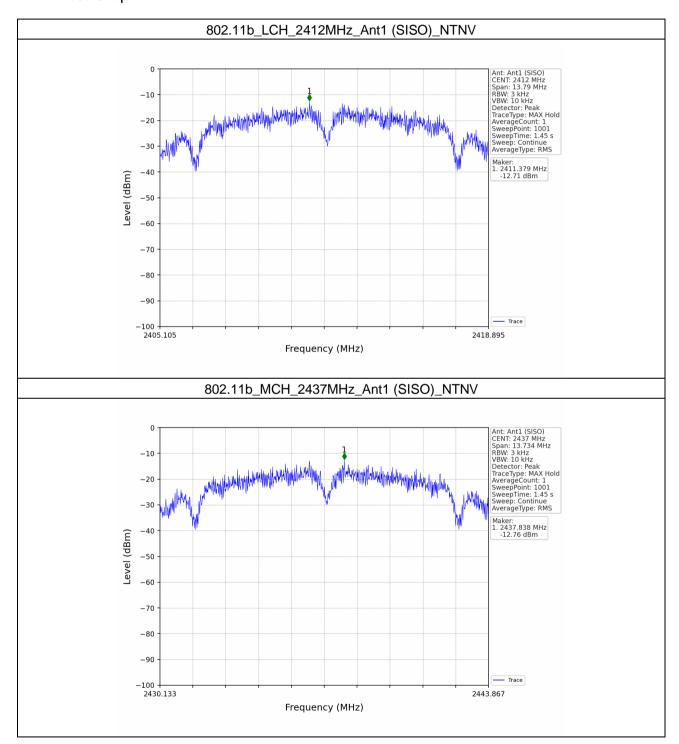


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#### 4.1.2 Test Graph





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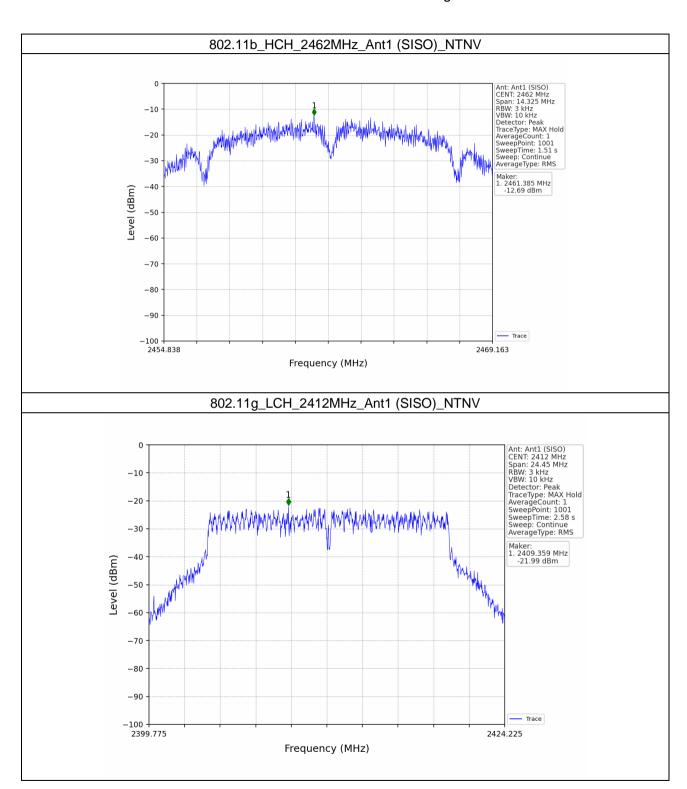
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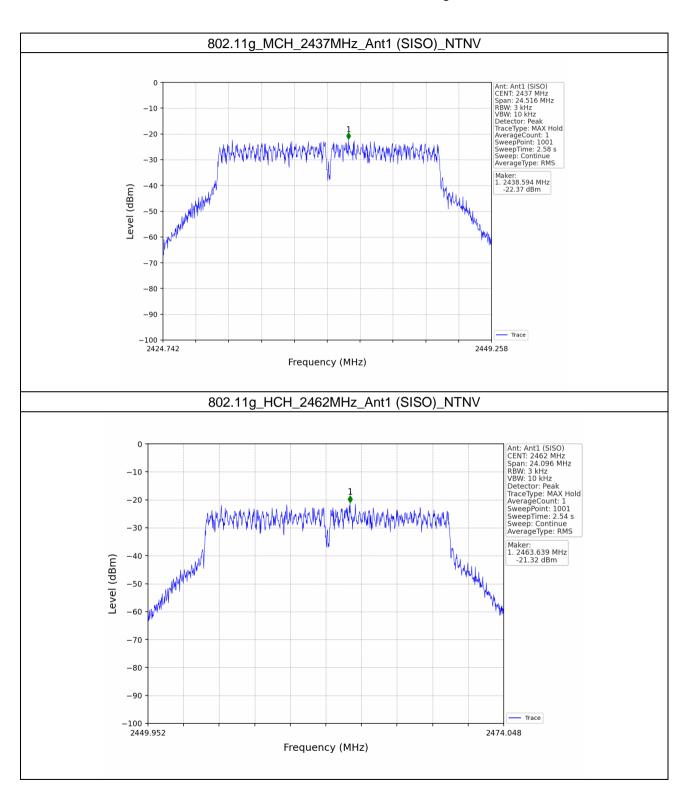
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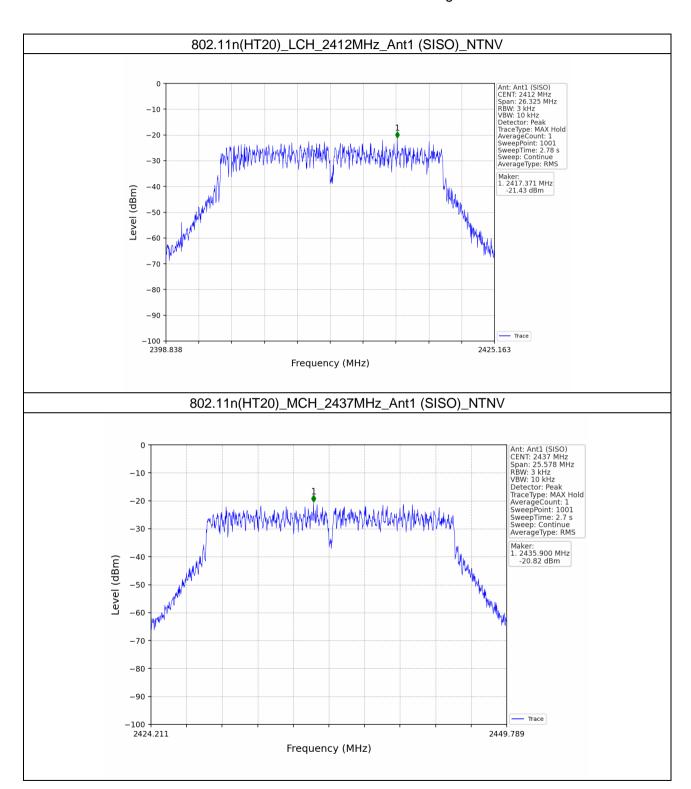
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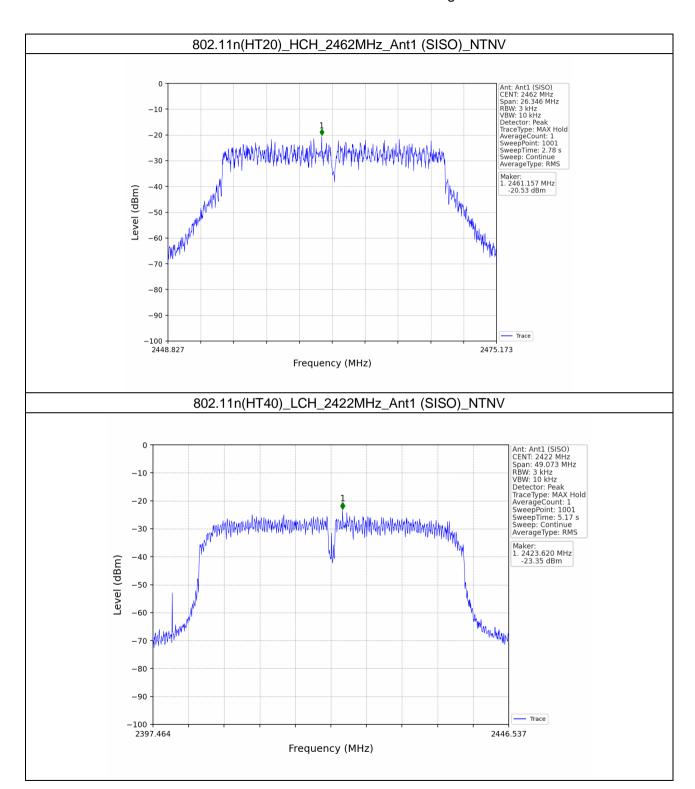
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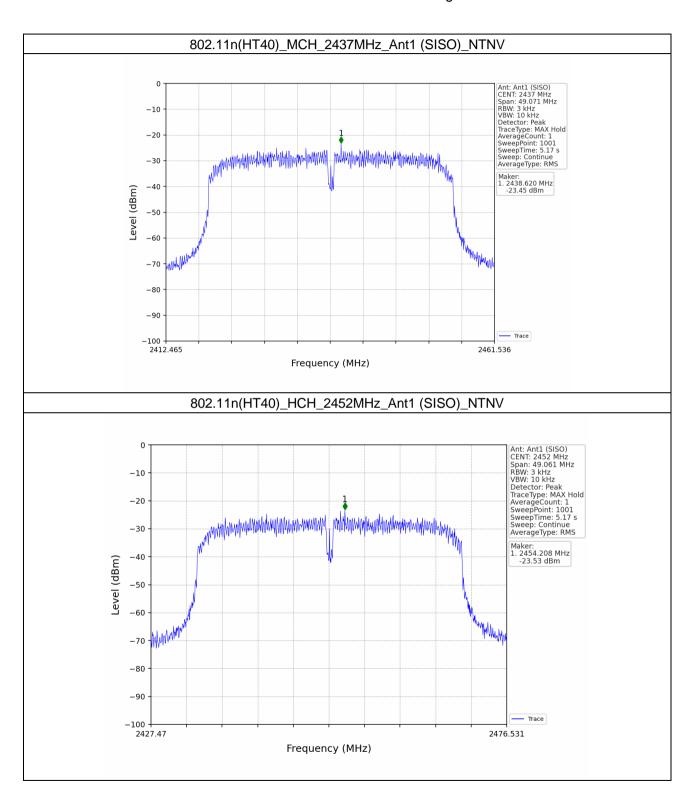
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	0.83
		2437	1	0.54
		2462	1	0.85
802.11g	SISO	2412	1	-6.09
		2437	1	-6.30
		2462	1	-5.89
802.11n (HT20)	SISO	2412	1	-7.91
		2437	1	-5.78
		2462	1	-5.87
802.11n (HT40)	SISO	2422	1	-10.65
		2437	1	-10.82
		2452	1	-10.00



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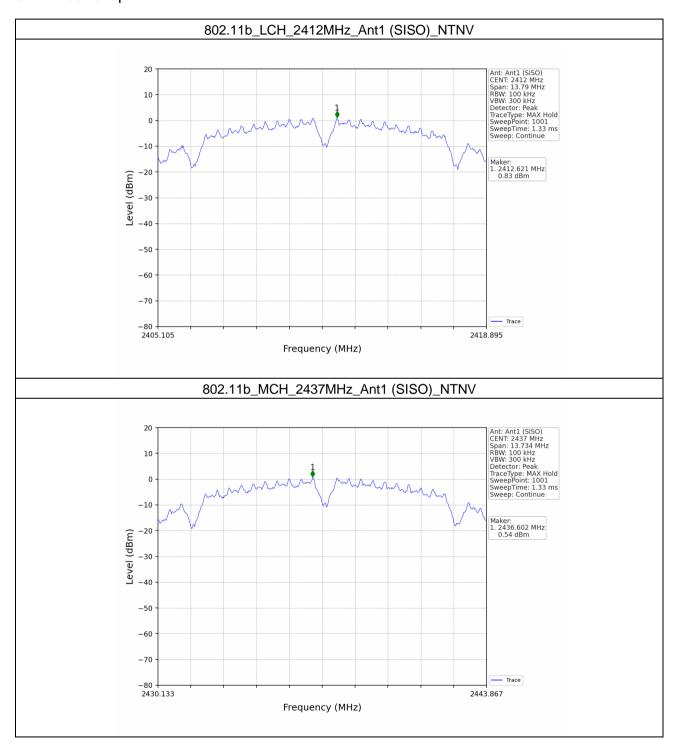


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#### 5.1.2 Test Graph





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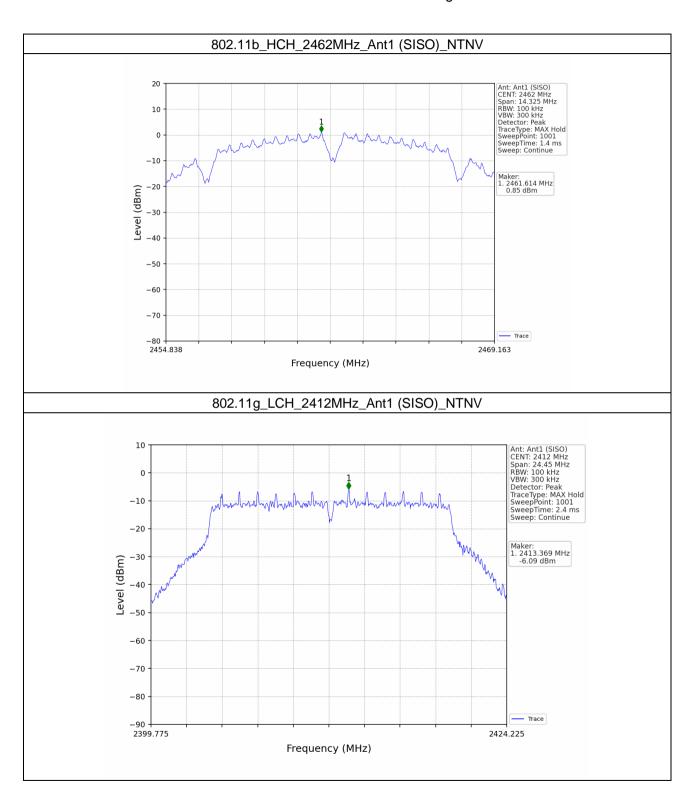
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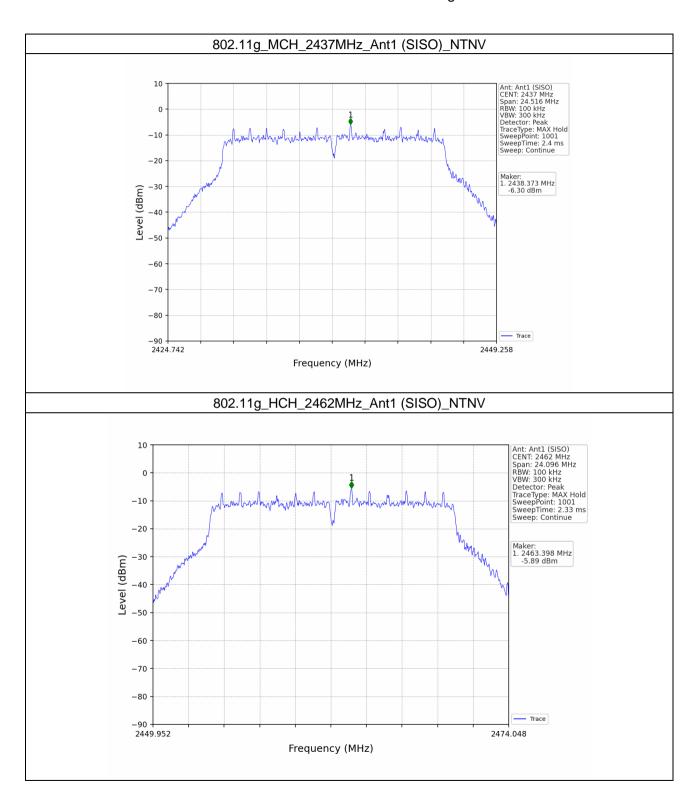
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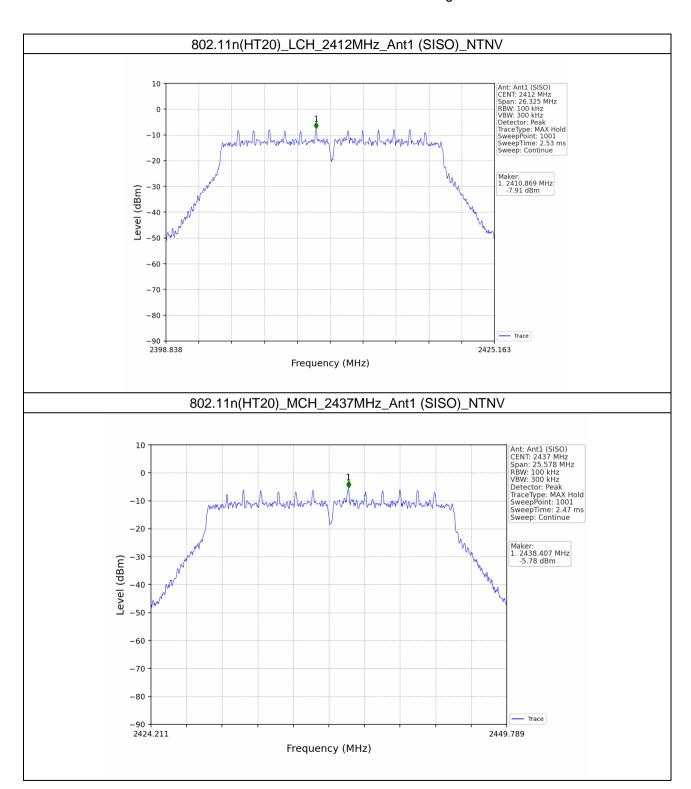
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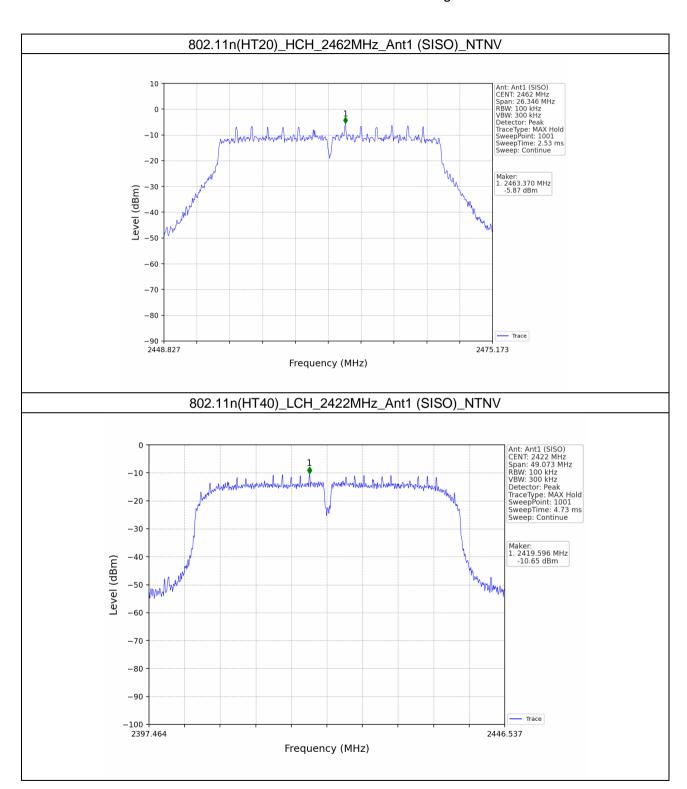
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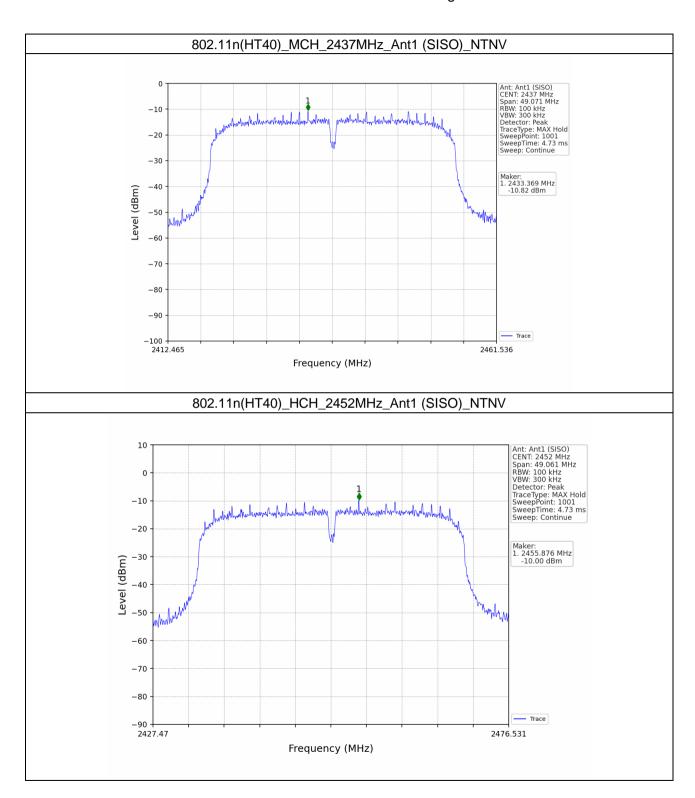
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#### 5.2 CSE

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	0.85	-19.15	Pass
		2437	1	0.85	-19.15	Pass
		2462	1	0.85	-19.15	Pass
802.11g	SISO	2412	1	-5.89	-25.89	Pass
		2437	1	-5.89	-25.89	Pass
		2462	1	-5.89	-25.89	Pass
802.11n (HT20)	SISO	2412	1	-5.78	-25.78	Pass
		2437	1	-5.78	-25.78	Pass
		2462	1	-5.78	-25.78	Pass
802.11n (HT40)	SISO	2422	1	-10.00	-30.00	Pass
		2437	1	-10.00	-30.00	Pass
		2452	1	-10.00	-30.00	Pass



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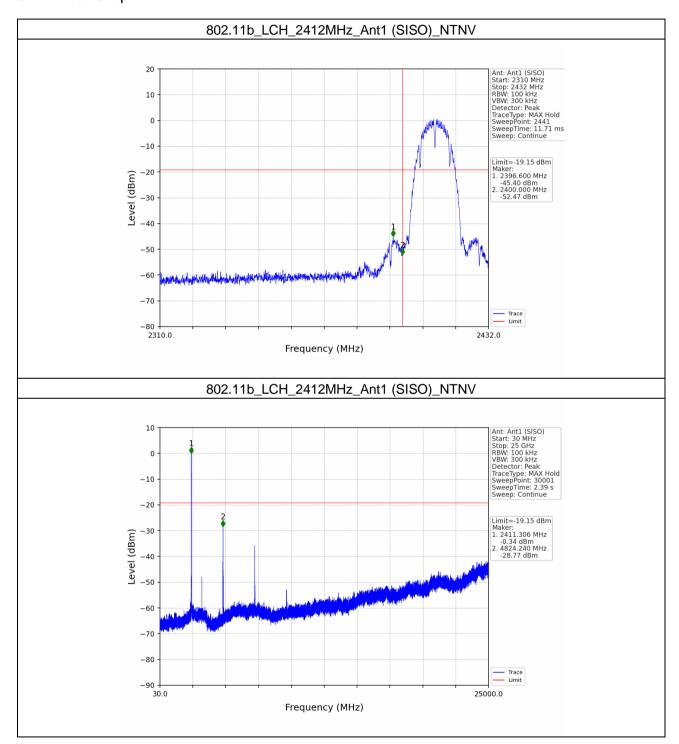


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#### 5.2.2 Test Graph





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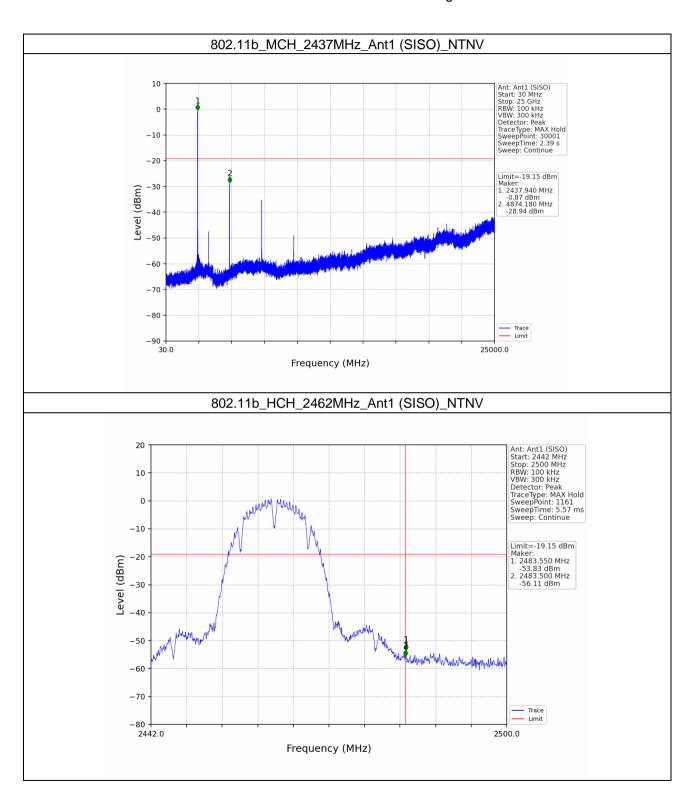
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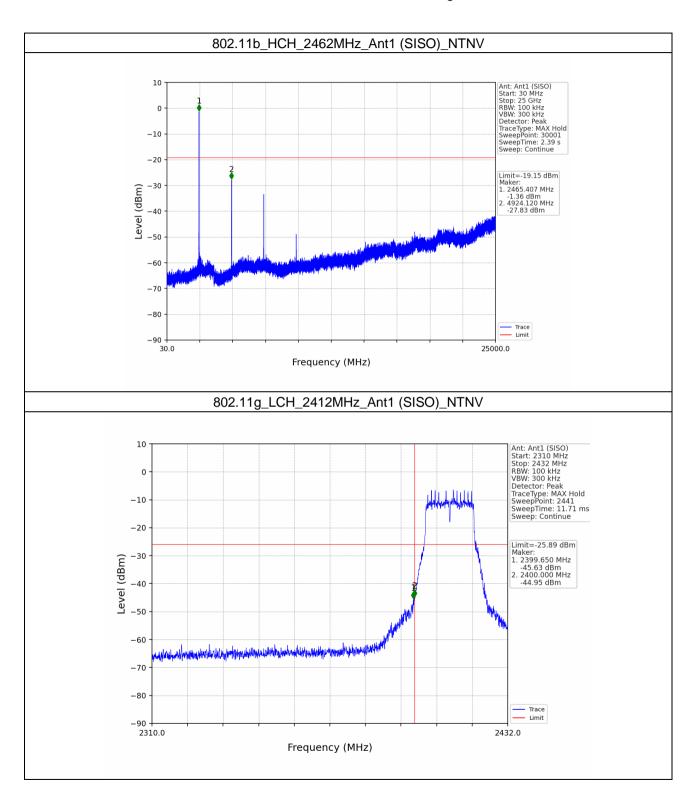
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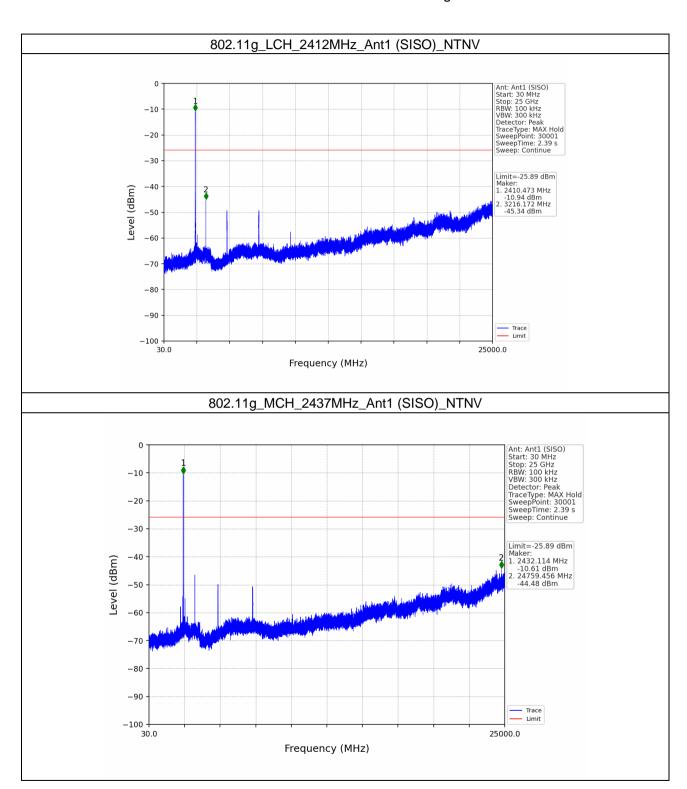
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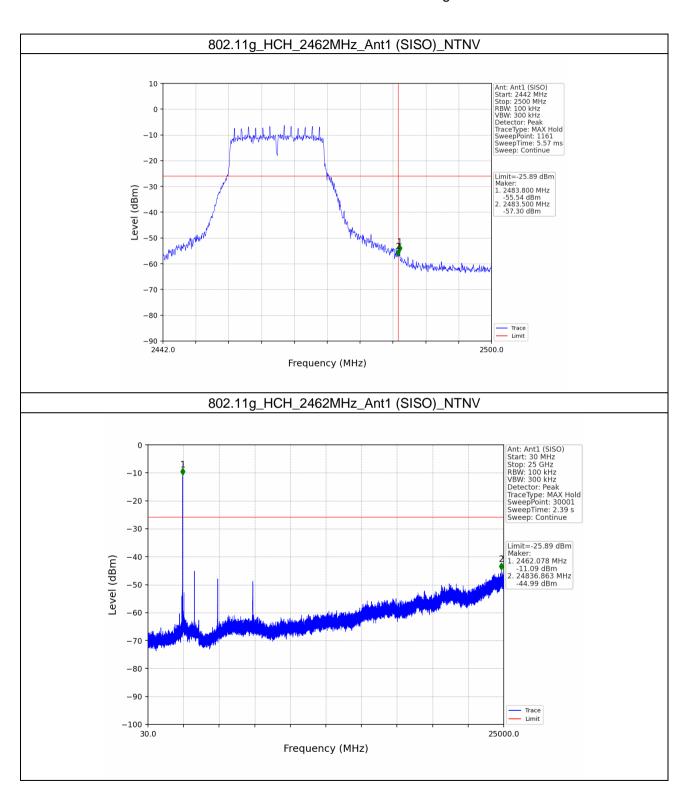
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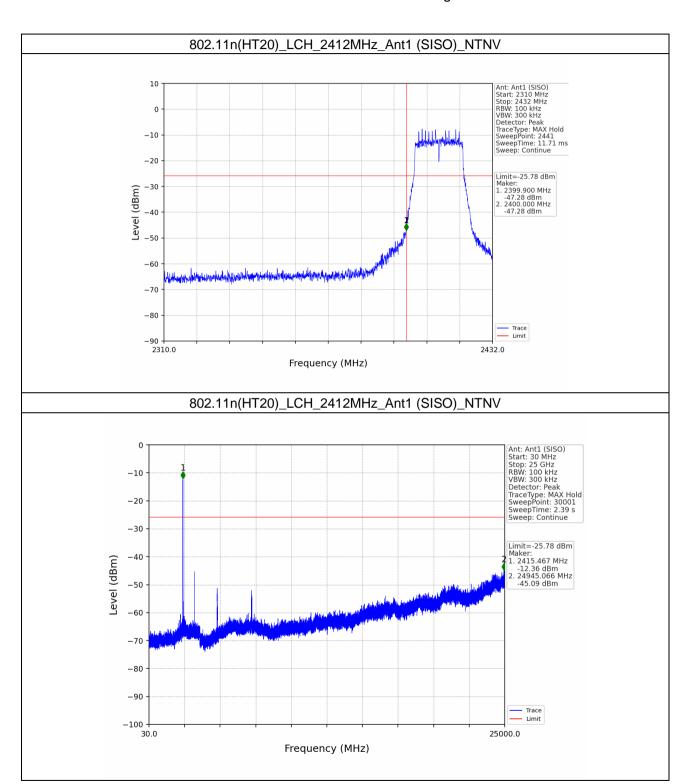
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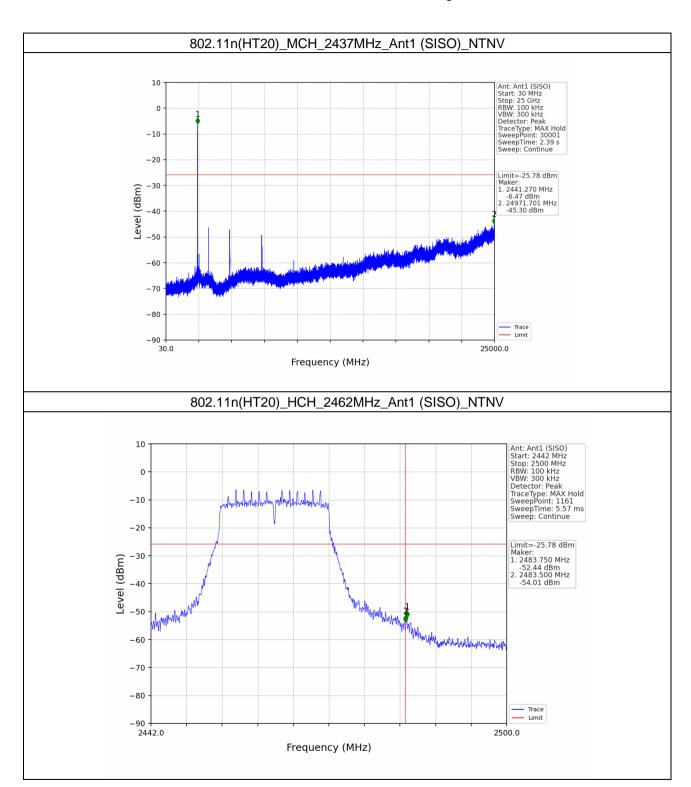
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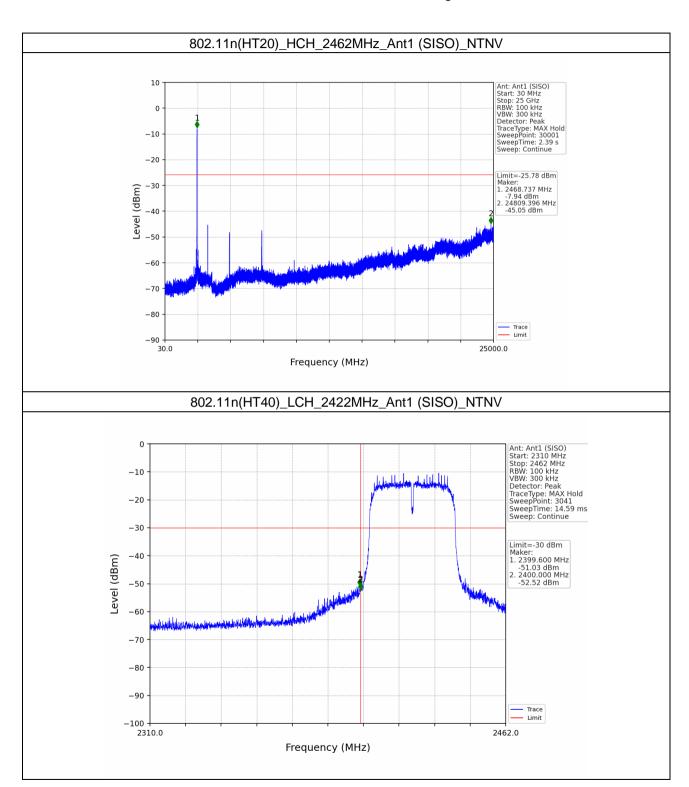
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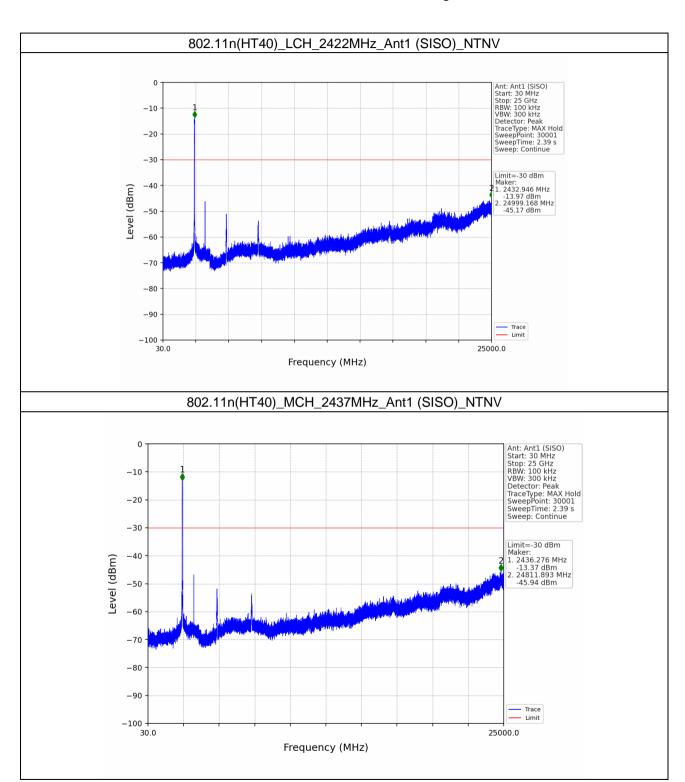
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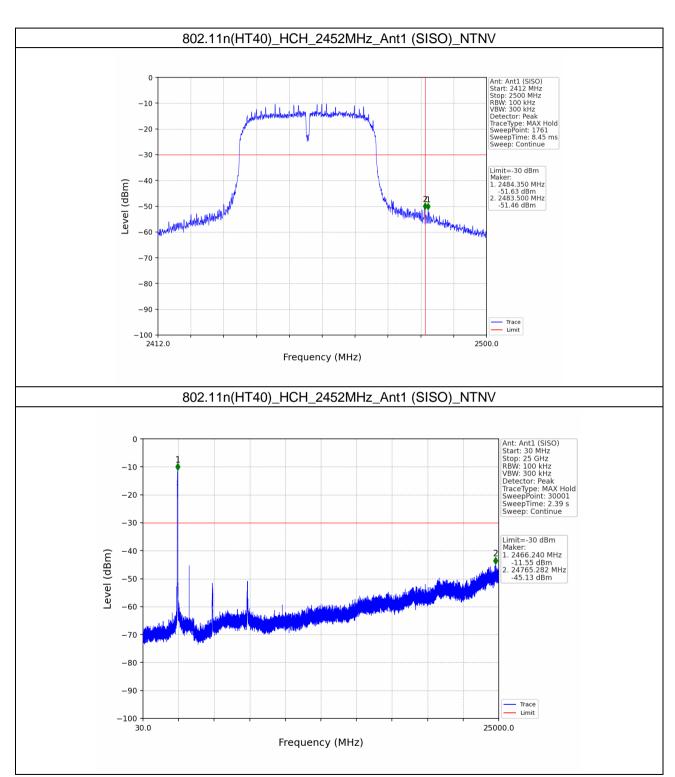
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