

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200058404

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# TEST REPORT

Application No.: SZCR2402000584AT

Applicant: Shenzhen Mammotion Innovation Co., Limited

Address of Applicant: 9th Floor, Building A3, Nanshan Zhiyuan, Changyuan Community, Nanshan

District, Shenzhen, China

Manufacturer: Shenzhen Mammotion Innovation Co., Limited

Address of Manufacturer: 9th Floor, Building A3, Nanshan Zhiyuan, No. 1001 Xueyuan Avenue,

Changyuan Community, Taoyuan Street, Nanshan District, Shenzhen

Factory: Huizhou BYD Electronic Co., Ltd.

Address of Factory: Daya Bay Economic and Technological Development Zone, Huizhou City

**Equipment Under Test (EUT):** 

EUT Name: YUKA

**Model No.:** 600, 1000, 1500, 2000

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: Mammotion FCC ID: 2BFWS-YUKA

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

**Date of Receipt:** 2024-02-23

**Date of Test:** 2024-04-03 to 2024-04-19

**Date of Issue:** 2024-04-22

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. xu



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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		2024-04-22		Original			

Authorized for issue by:		
	Darren Yvan	
	Darren Yuan/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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#### **Test Summary** 2

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
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 Peak 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	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	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	

#### **Declaration of EUT Family Grouping:**

Model No.: 600, 1000, 1500, 2000

Only the model 1500 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No..



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### **General Information**

#### Details of F U T **4** 1

Details of E.U.T.					
Power supply:	Powered by Rechargeable Li-ion Battery.				
	Battery information				
	Model: YUKA				
	Rated Voltage: 21.6Vdc				
	Rated Capacity: 4.5Ah/97.2Wh				
	Charging station information				
	Model: CHG0004				
	Input: 30Vdc, 90W				
	Output: 30Vdc, 3A				
	Charging station adapter information				
Model: TS-A090-3003001					
Input: 100-240VAC, 50/60Hz 2.0A Max					
	Output: 30Vdc, 3.0A, 90W				
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;				
Operation requestly.	802.11n(HT40): 2422MHz to 2452MHz				
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);				
iviodulation Type.	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:	5.8dBi				
Cable Loss (for RF conducted test):	0.9dB				
	Power supply:  Operation Frequency:  Modulation Type:  Number of Channels:  Channel Spacing:  Antenna Type:  Antenna Gain:  Cable Loss (for RF				

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.							



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### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Conducted Peak 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	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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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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#### 5 **Equipment List**

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	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26	

Minimum 6dB Bandwidt	h				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26



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Power Spectrum Density							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06		
Attenuator Huber+Suhner		6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26		

Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13		
Measurement Software	rement Software TST PASS TST F		N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06		
Attenuator Huber+Suhne		6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26		

Conducted Spurious Emissions							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13		
Measurement Software	re TST PASS TST PASS V2.0 N/A		N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26		



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Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No.	Model No. Inventory No.		Cal Due Date		
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22		
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06		
Broad-Band Horn Antenna	Schwarzbeck		SEM003-15	2022-08-10	2024-08-09		
Pre-Amplifier Compliance Directions Systems Inc.		PAP-2640-50	SEM005-08	2024-03-15	2025-03-14		

Radiated Spurious Emissions Below 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18		
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18		
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15		
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06		



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Radiated Spurious Emissions Above 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22		
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18		
Measurement Software	Measurement Software AUDIX		N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06		
Broad-Band Horn Antenna	Schwarzbeck		SEM003-15	2022-08-10	2024-08-09		
Pre-Amplifier Compliance Directions Systems Inc.		PAP-2640-50	SEM005-08	2024-03-15	2025-03-14		

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator			SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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#### **Radio Spectrum Technical Requirement** 6

### 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 no consideration of replacement. The best case gain of the antenna is 5.8dBi.

Antenna location: Refer to internal photos



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#### **Radio Spectrum Matter Test Results** 7

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

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

Limit:

Fraguency of emission/MU=)	Conducted limit(dBµV)				
Frequency of emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

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

Operating Environment:

Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

### 7.1.2 Test Mode Description

71112 100111	7.1.2 Test mode bescription					
Pre-scan / Final test	Mode Code	Description				
Final test	05	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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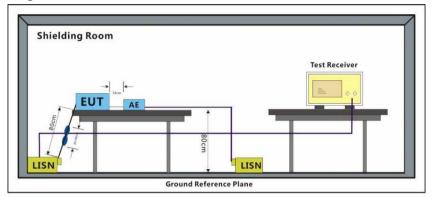
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#### 7.1.3 Test Setup Diagram



#### 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/50uH + 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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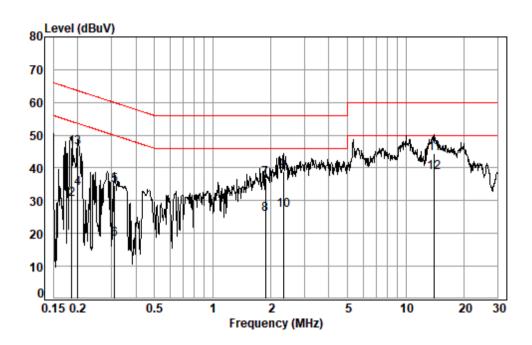


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Test Mode: 05: Line: Live line



: Shielding Room

Condition: Line

: 00584AT/00585AT Job No.

Test mode: 05

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1864	0.02	9.92	36.42	46.36	64.20	-17.84	QP
2	0.1864	0.02	9.92	20.59	30.53	54.20	-23.67	Average
3	0.2007	0.02	9.93	36.17	46.12	63.58	-17.46	QP
4	0.2007	0.02	9.93	23.92	33.87	53.58	-19.71	Average
5	0.3116	0.03	10.01	24.55	34.59	59.93	-25.34	QP
6	0.3116	0.03	10.01	8.34	18.38	49.93	-31.55	Average
7	1.8779	0.07	10.01	26.82	36.90	56.00	-19.10	QP
8	1.8779	0.07	10.01	15.79	25.87	46.00	-20.13	Average
9	2.3213	0.07	10.02	28.78	38.87	56.00	-17.13	QP
10	2.3213	0.07	10.02	16.84	26.93	46.00	-19.07	Average
11 *	14.0629	0.22	10.23	34.08	44.53	60.00	-15.47	QP
12 *	14.0629	0.22	10.23	28.22	38.67	50.00	-11.33	Average

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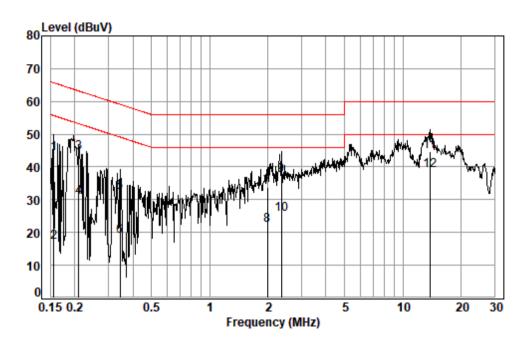


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Test Mode: 05; Line: Neutral Line



: Shielding Room

Condition: Neutral

: 00584AT/00585AT Job No.

Test mode: 05

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.02	9.89	34.23	44.14	65.65	-21.51	QP
2	0.1565	0.02	9.89	7.01	16.92	55.65	-38.73	Average
3	0.2106	0.02	9.92	34.39	44.33	63.18	-18.85	QP
4	0.2106	0.02	9.92	20.71	30.65	53.18	-22.53	Average
5	0.3428	0.03	9.92	22.39	32.34	59.13	-26.79	QP
6	0.3428	0.03	9.92	8.96	18.91	49.13	-30.22	Average
7	1.9906	0.07	9.96	23.82	33.85	56.00	-22.15	QP
8	1.9906	0.07	9.96	12.15	22.18	46.00	-23.82	Average
9	2.3585	0.07	9.96	27.53	37.56	56.00	-18.44	QP
10	2.3585	0.07	9.96	15.54	25.57	46.00	-20.43	Average
11 *	13.8411	0.22	10.25	34.31	44.78	60.00	-15.22	QP
12 *	13.8411	0.22	10.25	28.61	39.08	50.00	-10.92	Average



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### 7.2 Conducted Peak Output Power

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

#### 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:

26.0 °C Temperature: Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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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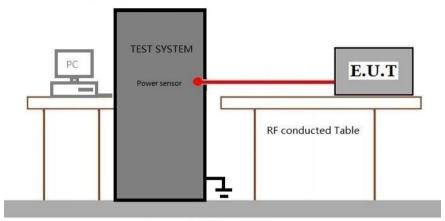


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### 7.2.3 Test Setup Diagram



Ground Reference Plane

### 7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

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

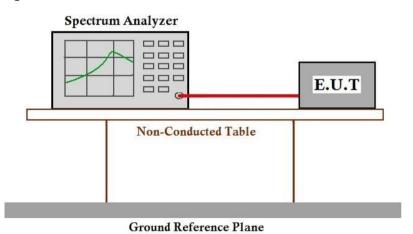
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 26.0 °C Humidity: 41.4 % RH

#### 7.3.2 Test Mode Description

the state of the s								
Pre-scan / Final test	Mode Code	Description						
Final test	04	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

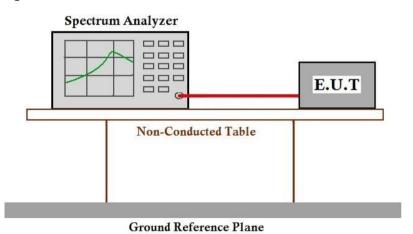
Operating Environment:

Temperature: 26.0 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.4.2 Test Mode Description

the same and pro-								
Pre-scan / Final test	Mode Code	Description						
Final test	04	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

Please Refer to Appendix for Details



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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: 26.0 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.5.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	-
Final test	04	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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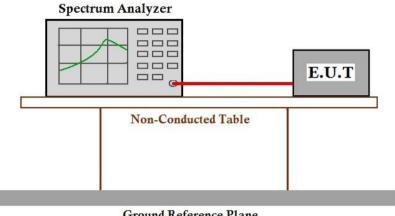
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#### 7.5.3 Test Setup Diagram



Ground Reference Plane

#### 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) Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

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

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26.0 °C Humidity: 41.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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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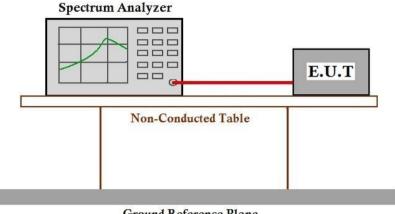
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#### 7.6.3 Test Setup Diagram



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

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.3 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description						
Pre-scan	04	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	05	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 @ 6.5Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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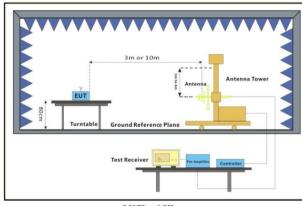


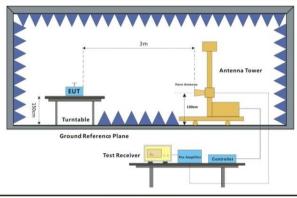
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#### 7.7.3 Test Setup Diagram





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

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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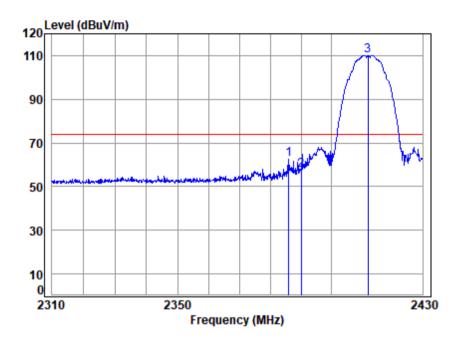


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT : 2412 Band edge Mode : 2.4G WIFI 11B Note

		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	2385.978	5.07	29.10	37.44	65.94	62.67	74.00	-11.33	peak
2	2390.000	5.08	29.10	37.44	60.89	57.63	74.00	-16.37	peak
3	p 2412.000	5.10	29.05	37.38	113.37	110.14	74.00	36.14	peak



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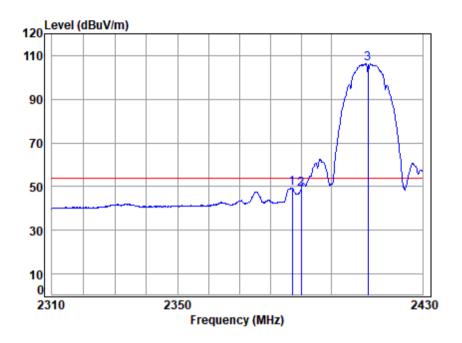


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq						Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2387.186	5.07	29.10	37.44	52.56	49.29	54.00	-4.71	Average	
2	2390.000	5.08	29.10	37.44	52.01	48.75	54.00	-5.25	Average	
3 q	2412.000	5.10	29.05	37.38	109.57	106.34	54.00	52.34	Average	



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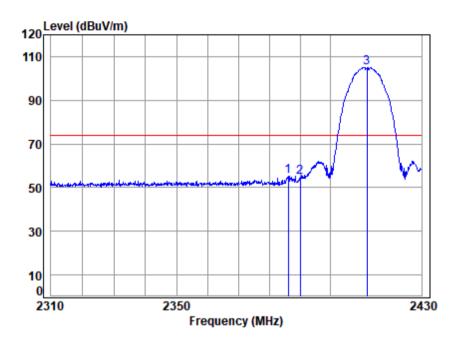


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Test Mode: 05: Polarity: Vertical: Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

000									
		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	2386.098	5.07	29.10	37.44	58.44	55.17	74.00	-18.83	Peak
2	2390.000	5.08	29.10	37.44	57.94	54.68	74.00	-19.32	Peak
3 p	2412.000	5.10	29.05	37.38	108.21	104.98	74.00	30.98	Peak



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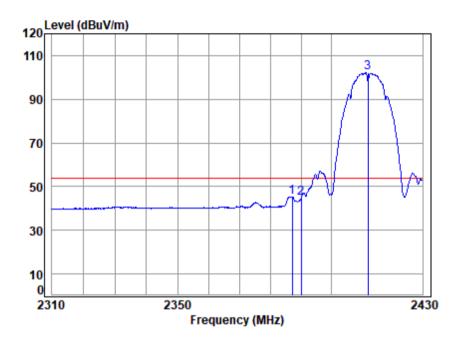


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Report No.: SZCR240200058404

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Test Mode: 05: Polarity: Vertical: Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

		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	2387.186	5.07	29.10	37.44	48.54	45.27	54.00	-8.73	Average
2	2390.000	5.08	29.10	37.44	47.99	44.73	54.00	-9.27	Average
3 q	2412.000	5.10	29.05	37.38	105.50	102.27	54.00	48.27	Average



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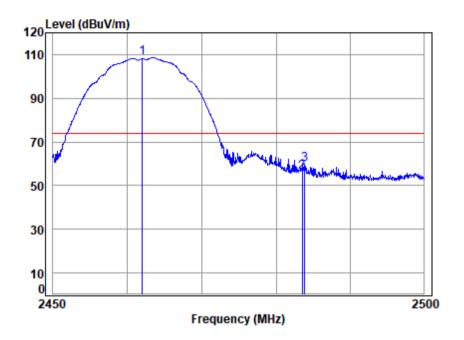


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT : 2462 Band edge Mode Note : 2.4G WIFI 11B

			Ant						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHZ	aв	dB/m	aв	aBuV	dBuV/m	dBuV/m	dB	
1 5	2462.000	E 1/	29 00	27 27	111 72	109 10	74 00	24 40	nook
T b	2402.000	5.14	20.90	3/.2/	111./2	100.49	74.00	34.49	peak
2	2483.500	5.16	28.90	37.22	59.48	56.32	74.00	-17.68	peak
3	2483.840	5.16	28.90	37.22	62.92	59.76	74.00	-14.24	peak



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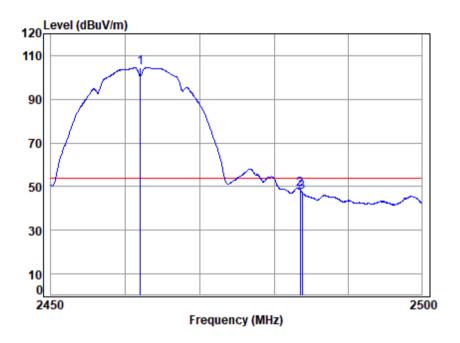


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq						Limit Line			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 q	2462.000	5.14	28.90	37.27	107.79	104.56	54.00	50.56	Average	
2	2483.500	5.16	28.90	37.22	51.78	48.62	54.00	-5.38	Average	
3	2483.790	5.16	28.90	37.22	50.64	47.48	54.00	-6.52	Average	



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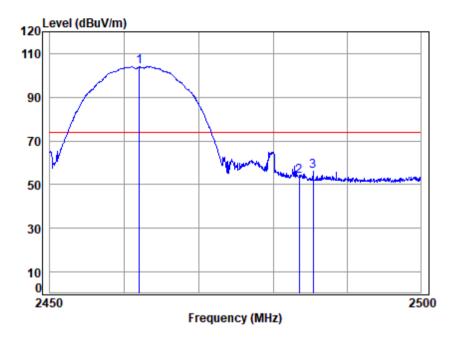


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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2462 Band edge Note · 2 4G WTET 11B

Le	. 2.4	+G MTL	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		
							•			
р	2462.000	5.14	28.90	37.27	107.20	103.97	74.00	29.97	Peak	
	2483.500									
}	2485.396	5.16	28.90	37.21	59.30	56.15	74.00	-17.85	Peak	



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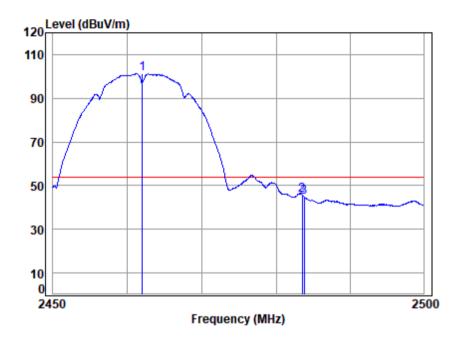


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT : 2462 Band edge Mode Note : 2.4G WIFI 11B

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	5.14	28.90	37.27	104.45	101.22	54.00	47.22	Average
2	2483.500	5.16	28.90	37.22	48.93	45.77	54.00	-8.23	Average
3	2483.790	5.16	28.90	37.22	48.00	44.84	54.00	-9.16	Average



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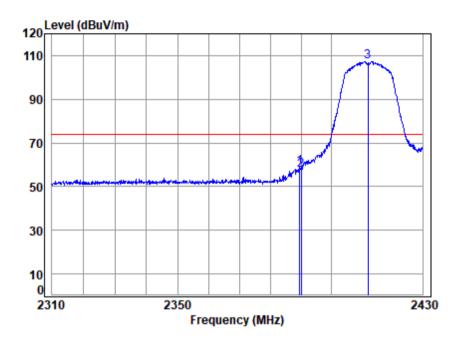


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2389.605	5.08	29.10	37.44	62.02	58.76	74.00	-15.24	peak
2	2390.000	5.08	29.10	37.44	60.89	57.63	74.00	-16.37	peak
3 p	2412.000	5.10	29.05	37.38	110.64	107.41	74.00	33.41	peak



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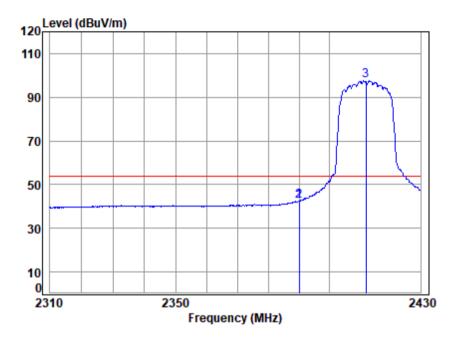


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Freq		Ant Factor						Remark	
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	5.08	29.10	37.44	45.66	42.40	54.00	-11.60	Average	
2	2390.000	5.08	29.10	37.44	45.66	42.40	54.00	-11.60	Average	
3 q	2412.000	5.10	29.05	37.38	100.76	97.53	54.00	43.53	Average	



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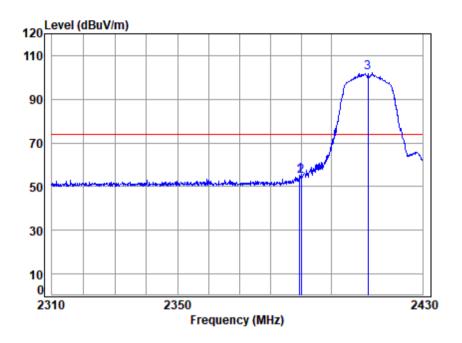


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2412 Band edge · 2 4G WIFT 11G Note

ote	: 2.	4G WIF	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	2389.605	5.08	29.10	37.44	58.28	55.02	74.00	-18.98	Peak	
2	2390.000	5.08	29.10	37.44	57.90	54.64	74.00	-19.36	Peak	
3 p	2412.000	5.10	29.05	37.38	105.25	102.02	74.00	28.02	Peak	



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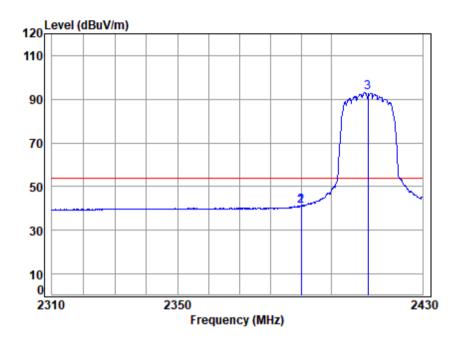


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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

		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	2389.968	5.08	29.10	37.44	44.52	41.26	54.00	-12.74	Average	
2	2390.000	5.08	29.10	37.44	44.52	41.26	54.00	-12.74	Average	
3 q	2412.000	5.10	29.05	37.38	96.30	93.07	54.00	39.07	Average	



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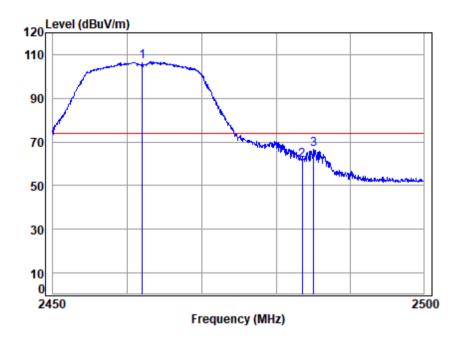


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2462 Band edge Note : 2.4G WIFI 11G

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	5.14	28.90	37.27	110.14	106.91	74.00	32.91	peak
2	2483.500	5.16	28.90	37.22	64.83	61.67	74.00	-12.33	peak
3	2485.095	5.16	28.90	37.21	69.79	66.64	74.00	-7.36	peak



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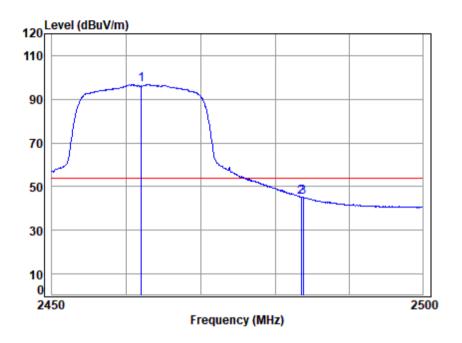


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT : 2462 Band edge Mode Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2	2462.000 2483.500								_
3	2483.790								_



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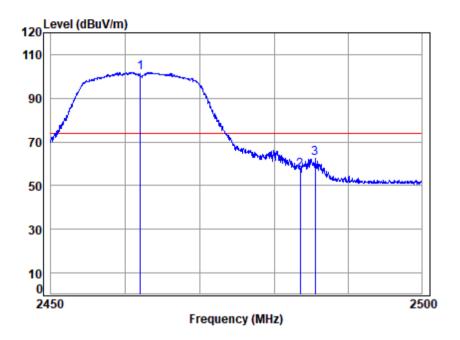


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT : 2462 Band edge Mode Note : 2.4G WIFI 11G

			Ant						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHZ	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	2462 000	- 44	20.00	27.07	405 46	404 03	74.00	27.02	<b>D</b> 1
1 p	2462.000	5.14	28.90	3/.2/	105.16	101.93	74.00	27.93	Реак
2	2483.500	5.16	28.90	37.22	60.07	56.91	74.00	-17.09	Peak
3	2485.546	5.16	28.90	37.21	65.60	62.45	74.00	-11.55	Peak



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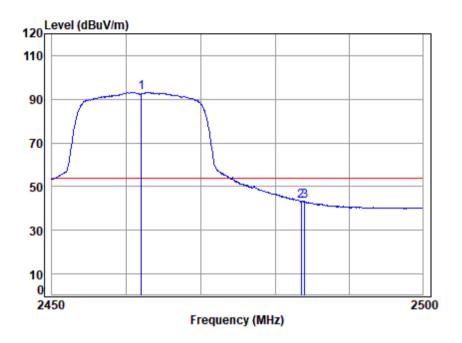


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT : 2462 Band edge Mode Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 q	2462.000	5.14	28.90	37.27	96.51	93.28	54.00	39.28	Average	
2	2483.500	5.16	28.90	37.22	46.49	43.33	54.00	-10.67	Average	
3	2483.990	5.16	28.90	37.22	46.29	43.13	54.00	-10.87	Average	



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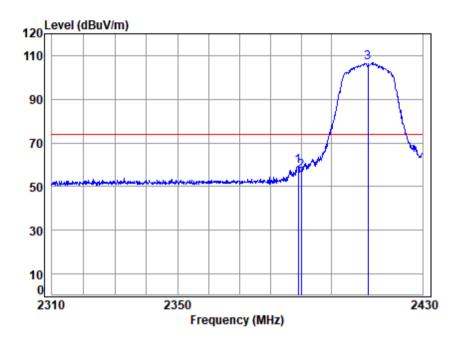


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2412 Band edge Note : 2.4G WIFI 11N20

				_					
	Freq						Limit Line		Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2389.121	5.07	29.10	37.44	62.69	59.42	74.00	-14.58	peak
2	2390.000	5.08	29.10	37.44	60.32	57.06	74.00	-16.94	peak
3 p	2412.000	5.10	29.05	37.38	109.91	106.68	74.00	32.68	peak



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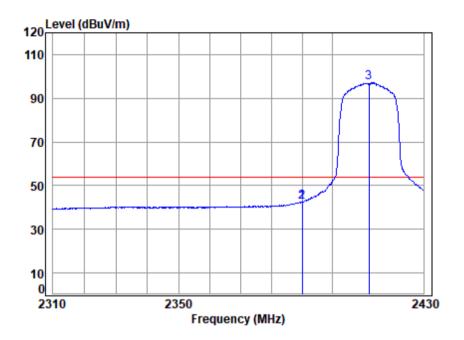


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2412 Band edge Note : 2.4G WIFI 11N20

			Ant							
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB		-
		45	45/11	45	abar	abar, m	abar, iii	45		
1	2389.968	5.08	29.10	37.44	45.76	42.50	54.00	-11.50	Average	
2	2390.000	5.08	29.10	37.44	45.76	42.50	54.00	-11.50	Average	
3 q	2412.000	5.10	29.05	37.38	100.35	97.12	54.00	43.12	Average	



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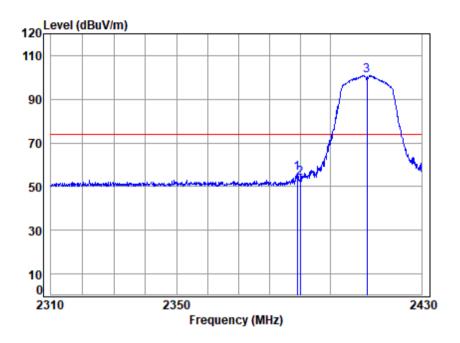


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Report No.: SZCR240200058404

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Test Mode: 05: Polarity: Vertical: Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2412 Band edge . 2.4G WTFT 11N2A Note

ore	: Z.	4G WIF	T TIME	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	2389.000	5.07	29.10	37.44	59.40	56.13	74.00	-17.87	Peak	
2	2390.000	5.08	29.10	37.44	57.01	53.75	74.00	-20.25	Peak	
3 p	2412.000	5.10	29.05	37.38	104.21	100.98	74.00	26.98	Peak	



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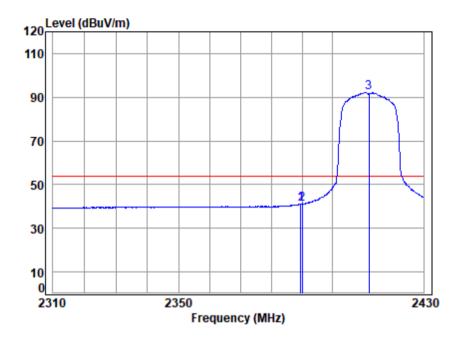


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Report No.: SZCR240200058404

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Test Mode: 05: Polarity: Vertical: Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT : 2412 Band edge Mode Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	2389.484	5.07	29.10	37.44	44.39	41.12	54.00	-12.88	Average	
2	2390.000	5.08	29.10	37.44	44.24	40.98	54.00	-13.02	Average	
3 q	2412.000	5.10	29.05	37.38	95.41	92.18	54.00	38.18	Average	



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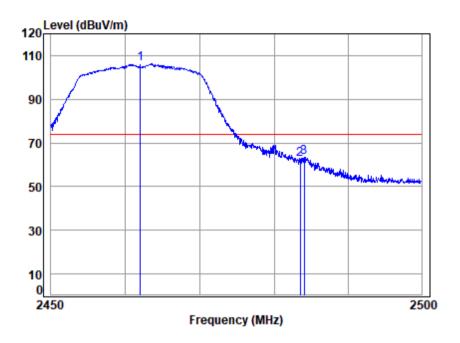


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2462 Band edge Note : 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 p	2462.000	5.14	28.90	37.27	109.42	106.19	74.00	32.19	peak
2	2483.500	5.16	28.90	37.22	65.80	62.64	74.00	-11.36	peak
3	2484.041	5.16	28.90	37.22	66.60	63.44	74.00	-10.56	peak



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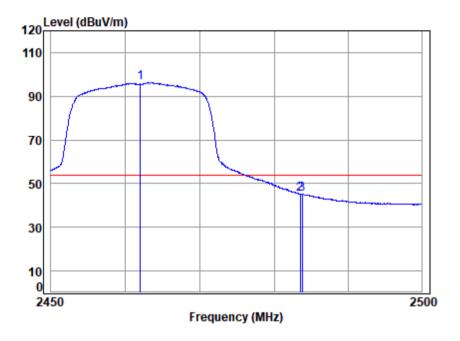


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2462 Band edge Note : 2.4G WIFI 11N20

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
q 2462.000								_	
2483.500 2483.790								Average Average	



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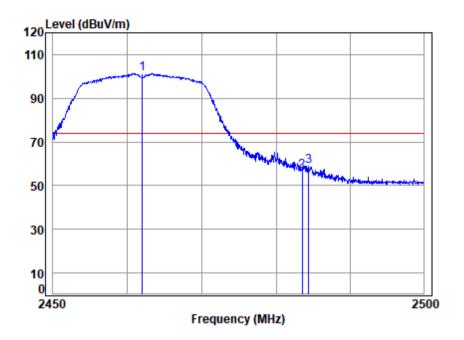


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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT : 2462 Band edge Mode Note : 2.4G WIFI 11N20

	_				_						
				Ant							
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	-						<del></del>				
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
								74.00			
1	р	2462.000	5.14	28.90	3/.2/	104.43	101.20	/4.00	27.20	Peak	
2		2483.500	5.16	28.90	37.22	59.82	56.66	74.00	-17.34	Peak	
3		2484.392	5.16	28.90	37.21	62.07	58.92	74.00	-15.08	Peak	



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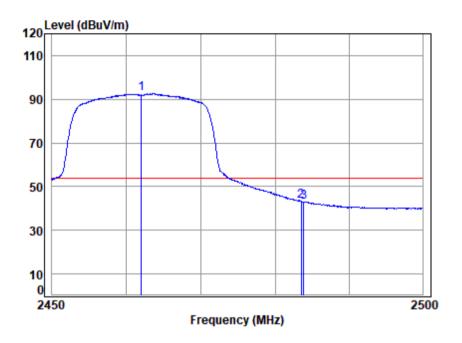


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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

	_										
			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	5.14	28.90	37.27	95.73	92.50	54.00	38.50	Average	
2		2483.500	5.16	28.90	37.22	46.50	43.34	54.00	-10.66	Average	
3		2483.890	5.16	28.90	37.22	46.14	42.98	54.00	-11.02	Average	



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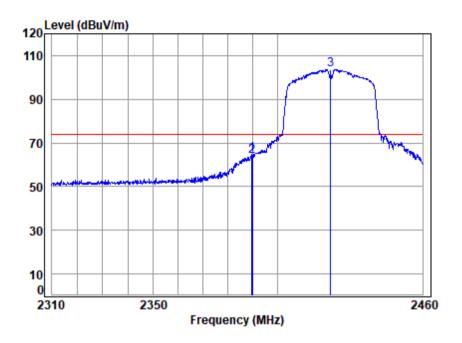


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2422 Band edge Note : 2.4G WIFI 11N40

				_					
	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	5.08	29.10	37.44	68.03	64.77	74.00	-9.23	peak
2	2390.000	5.08	29.10	37.44	67.02	63.76	74.00	-10.24	peak
3 p	2422.000	5.10	29.01	37.36	107.05	103.80	74.00	29.80	peak



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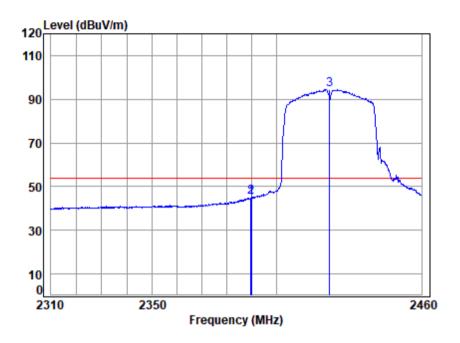


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200058404

Page: 53 of 126

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2422 Band edge Note : 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	2389.827	5.08	29.10	37.44	48.18	44.92	54.00	-9.08	Average
2	2390.000	5.08	29.10	37.44	48.40	45.14	54.00	-8.86	Average
3 q	2422.000	5.10	29.01	37.36	97.92	94.67	54.00	40.67	Average



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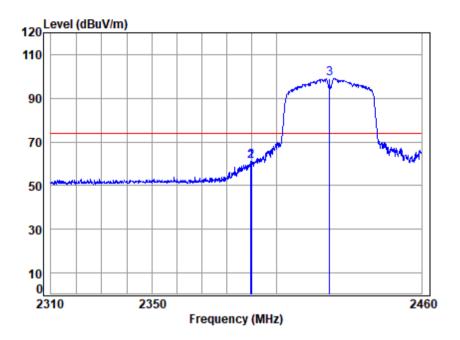


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200058404

Page: 54 of 126

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2422 Band edge Note

oτe	: 2.4	4G WIF	1 11N4(	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	2389.677	5.08	29.10	37.44	64.26	61.00	74.00	-13.00	Peak	
2	2390.000	5.08	29.10	37.44	64.44	61.18	74.00	-12.82	Peak	
3 p	2422.000	5.10	29.01	37.36	102.19	98.94	74.00	24.94	Peak	



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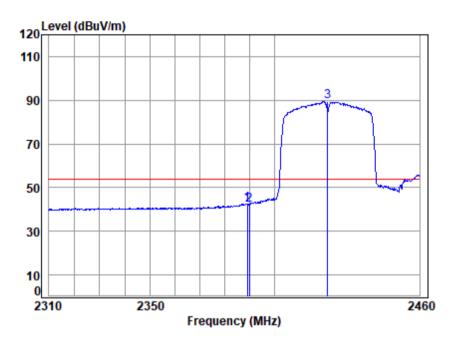


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240200058404

Page: 55 of 126

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2422 Band edge Note : 2.4G WIFI 11N40

				_						
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.226	5.07	29.10	37.44	45.83	42.56	54.00	-11.44	Average	
2	2390.000	5.08	29.10	37.44	45.43	42.17	54.00	-11.83	Average	
3 q	2422.000	5.10	29.01	37.36	92.83	89.58	54.00	35.58	Average	



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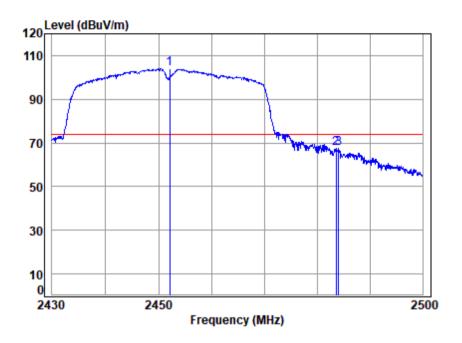


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT : 2452 Band edge Mode : 2.4G WIFI 11N40 Note

mp Read Limit Over or Level Level Line Limit Remark	
or Level Level Line Limit Remark	
	_
dB dBuV dBuV/m dBuV/m dB	
29 107.25 103.99 74.00 29.99 peak	
22 70.51 67.35 74.00 -6.65 peak	
22 70.63 67.47 74.00 -6.53 peak	
22 70.51 67.35 74.00 -6.65	peak



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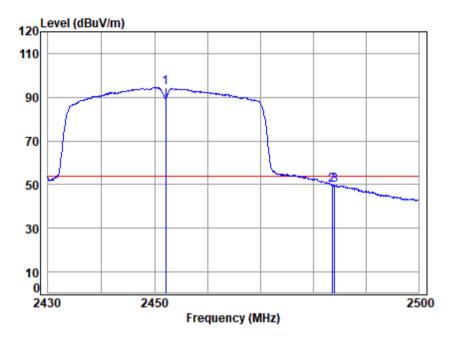


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2452 Band edge Note : 2.4G WIFI 11N40

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
q 2452.000 2483.500								
2483.935								_



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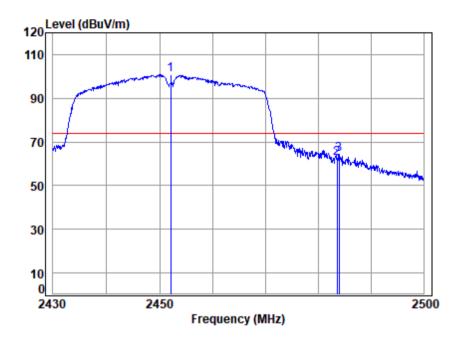


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT Mode : 2452 Band edge . 2.46 WTFT 11N/A Note

ore	: Z.	4G WIF	1 111141	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 p	2452.000	5.13	28.90	37.29	104.03	100.77	74.00	26.77	Peak	
2	2483.500	5.16	28.90	37.22	65.46	62.30	74.00	-11.70	Peak	
3	2483.865	5.16	28.90	37.22	67.66	64.50	74.00	-9.50	Peak	



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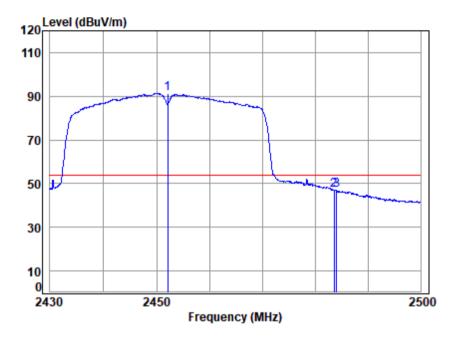


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT : 2452 Band edge Mode Note : 2.4G WIFI 11N40

				_					
	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2452.000	5.13	28.90	37.29	94.65	91.39	54.00	37.39	Average
2	2483.500	5.16	28.90	37.22	50.15	46.99	54.00	-7.01	Average
3	2483.935	5.16	28.90	37.22	50.01	46.85	54.00	-7.15	Average



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Report No.: SZCR240200058404

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#### 7.8 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

#### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

#### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	04	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	05	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 @ 6.5Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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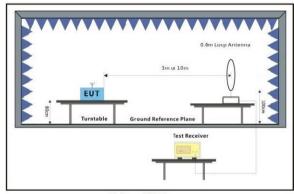


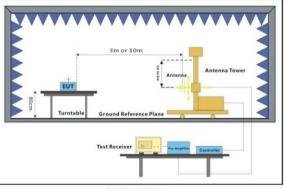
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#### 7.8.3 Test Setup Diagram





Below 30MHz

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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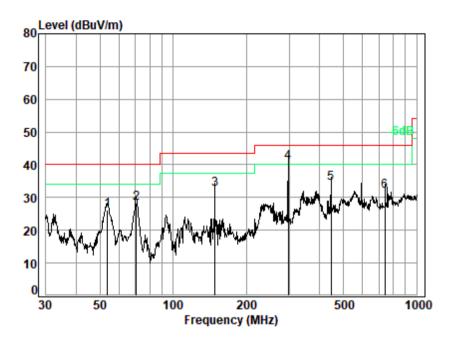


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL Job No. : 00584AT/00585AT

Test Mode: 05

		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	53.69	12.18	0.86	27.74	40.86	26.16	40.00	-13.84	QP
2	70.58	10.58	0.99	27.69	44.36	28.24	40.00	-11.76	QP
3	148.44	12.86	1.45	27.44	45.61	32.48	43.50	-11.02	QP
4 q	297.22	17.69	2.16	26.90	47.86	40.81	46.00	-5.19	QP
5	444.85	21.12	2.70	27.54	38.05	34.33	46.00	-11.67	QP
6	742.26	26.27	3.65	27.79	29.89	32.02	46.00	-13.98	OP



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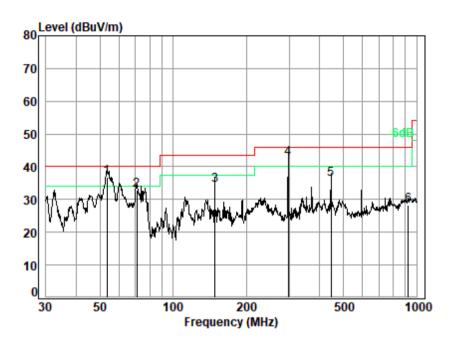


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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No. : 00584AT/00585AT

Test Mode: 05

		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 q	53.51	12.21	0.86	27.74	51.46	36.79	40.00	-3.21	QP
2	70.83	10.57	1.00	27.69	48.84	32.72	40.00	-7.28	QP
3	148.44	12.86	1.45	27.44	47.48	34.35	43.50	-9.15	QP
4	297.22	17.69	2.16	26.90	49.60	42.55	46.00	-3.45	QP
5	444.85	21.12	2.70	27.54	39.88	36.16	46.00	-9.84	QP
6	925.76	28.18	4.16	27.01	22.96	28.29	46.00	-17.71	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:

Humidity: 50.2 % RH Atmospheric Pressure: 1020 mbar Temperature: 21.0 °C

#### 7.9.2 Test Mode Description

7.3.2 TESLIV	ouc Dc.	Soription
Pre-scan / Final test	Mode Code	Description
Pre-scan	04	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	05	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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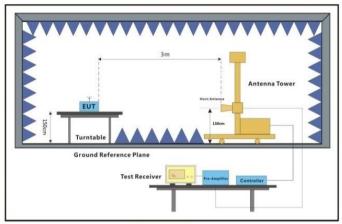


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#### 7.9.3 Test Setup Diagram



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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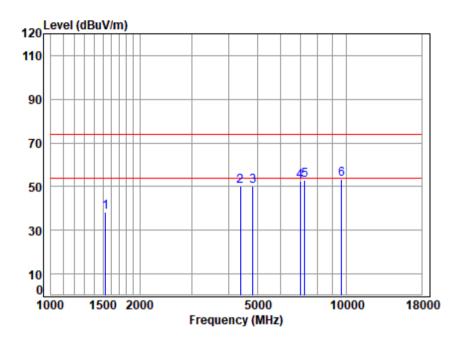


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT

Mode : 2412 TX RSE

: 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		1529.414	4.10	26.92	38.39	45.86	38.49	74.00	-35.51	peak
2		4392.376	7.05	34.74	35.80	44.04	50.03	74.00	-23.97	peak
3		4824.000	7.33	34.40	35.50	43.79	50.02	74.00	-23.98	peak
4		6974.982	8.90	35.75	35.55	43.34	52.44	74.00	-21.56	peak
5		7236.000								•
6	р	9648.000	12.39	37.50	37.45	41.09	53.53	74.00	-20.47	peak



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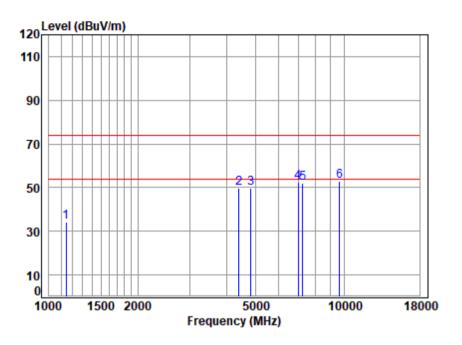


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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1142.201	3.48	23.87	38.33	45.39	34.41	74.00	-39.59	peak
2		4405.090	7.06	34.74	35.79	43.50	49.51	74.00	-24.49	peak
3		4824.000	7.33	34.40	35.50	43.65	49.88	74.00	-24.12	peak
4		6974.982	8.90	35.75	35.55	43.22	52.32	74.00	-21.68	peak
5		7236.000	9.21	35.70	35.82	43.11	52.20	74.00	-21.80	peak
6	р	9648.000	12.39	37.50	37.45	40.28	52.72	74.00	-21.28	peak



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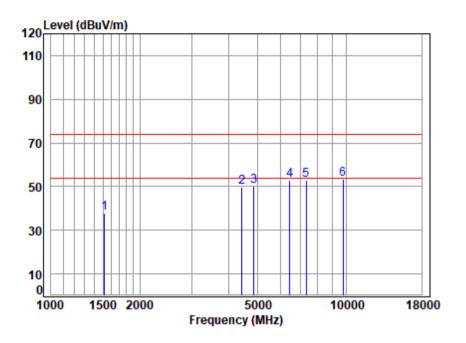


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT

Mode : 2437 TX RSE

: 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		1516.210	4.08	26.86	38.39	45.20	37.75	74.00	-36.25	peak
2		4430.628	7.08	34.43	35.77	44.20	49.94	74.00	-24.06	peak
3		4874.000	7.36	34.60	35.47	43.65	50.14	74.00	-23.86	peak
4		6432.732	8.51	35.40	35.20	44.00	52.71	74.00	-21.29	peak
5		7311.000	9.30	35.70	35.89	44.01	53.12	74.00	-20.88	peak
6	р	9748.000	12.46	37.40	37.43	40.77	53.20	74.00	-20.80	peak



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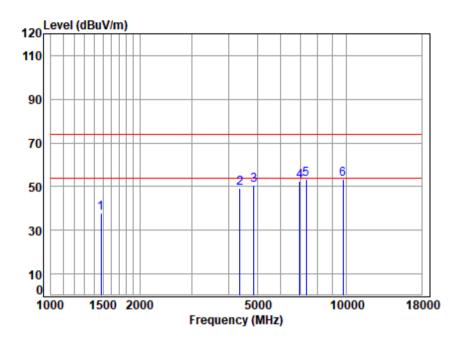


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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

		Freq			Preamp Factor		Level			Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1477.276	4.03	26.16	38.38	45.99	37.80	74.00	-36.20	peak
2		4367.058	7.04	34.54	35.82	43.37	49.13	74.00	-24.87	peak
3		4874.000	7.36	34.60	35.47	43.97	50.46	74.00	-23.54	peak
4		6954.852	8.89	35.79	35.54	43.31	52.45	74.00	-21.55	peak
5		7311.000	9.30	35.70	35.89	44.29	53.40	74.00	-20.60	peak
6	р	9748.000	12.46	37.40	37.43	40.97	53.40	74.00	-20.60	peak



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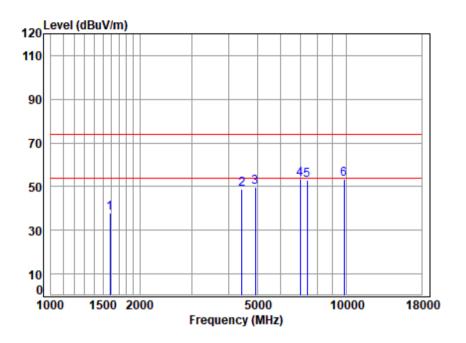


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT

Mode : 2462 TX RSE

: 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	1587.975	4.18	26.85	38.40	45.01	37.64	74.00	-36.36	peak
2	4443.453	7.09	34.28	35.77	43.18	48.78	74.00	-25.22	peak
3	4924.000	7.39	34.65	35.44	42.93	49.53	74.00	-24.47	peak
4	6974.982	8.90	35.75	35.55	44.06	53.16	74.00	-20.84	peak
5	7386.000								•
6	p 9848.000	12.53	37.20	37.40	41.10	53.43	74.00	-20.57	peak



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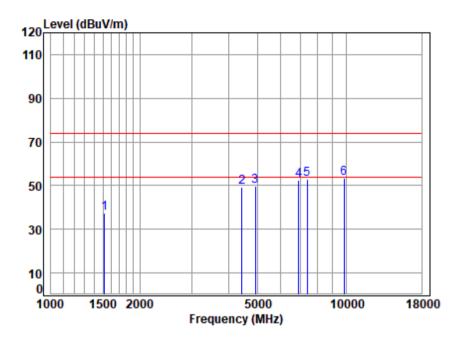


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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT

Mode : 2462 TX RSE

: 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	1520.598	4.09	26.88	38.39	44.87	37.45	74.00	-36.55	peak
2	4430.628	7.08	34.43	35.77	43.57	49.31	74.00	-24.69	peak
3	4924.000	7.39	34.65	35.44	43.03	49.63	74.00	-24.37	peak
4	6914.763	8.86	35.66	35.52	43.70	52.70	74.00	-21.30	peak
5	7386.000	9.39	35.77	35.97	43.76	52.95	74.00	-21.05	peak
6	p 9848.000	12.53	37.20	37.40	41.14	53.47	74.00	-20.53	peak



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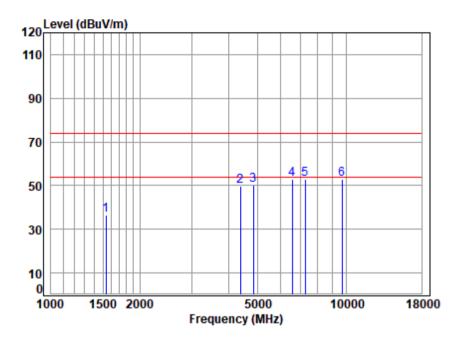


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT

Mode : 2422 TX RSE

: 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1533.841	4.11	26.94	38.39	43.85	36.51	74.00	-37.49	peak
2	4379.699	7.04	34.64	35.81	43.71	49.58	74.00	-24.42	peak
3	4844.000	7.34	34.48	35.49	43.91	50.24	74.00	-23.76	peak
4	p 6564.209	8.61	35.44	35.29	44.11	52.87	74.00	-21.13	peak
5	7266.000	9.25	35.70	35.85	43.73	52.83	74.00	-21.17	peak
6	9688.000	12.42	37.50	37.44	40.35	52.83	74.00	-21.17	peak



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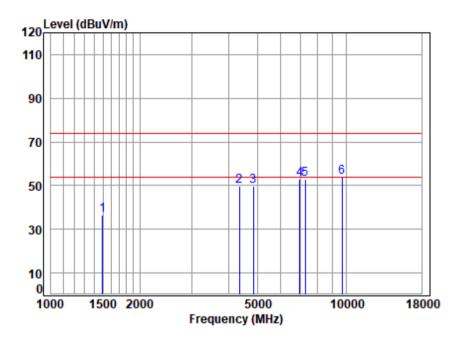


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT

Mode : 2422 TX RSE

: 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		1494.455	4.05	26.64	38.39	44.04	36.34	74.00	-37.66	peak
2		4354.454	7.03	34.44	35.83	44.00	49.64	74.00	-24.36	peak
3		4844.000	7.34	34.48	35.49	43.56	49.89	74.00	-24.11	peak
4		6954.852	8.89	35.79	35.54	43.60	52.74	74.00	-21.26	peak
5		7266.000	9.25	35.70	35.85	43.67	52.77	74.00	-21.23	peak
6	р	9688.000	12.42	37.50	37.44	41.26	53.74	74.00	-20.26	peak



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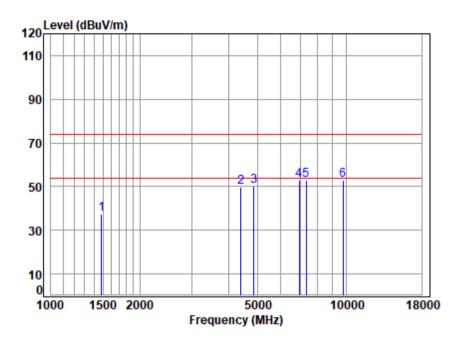


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT

Mode : 2437 TX RSE

: 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		1485.841	4.04	26.40	38.39	45.14	37.19	74.00	-36.81	peak
2		4405.090	7.06	34.74	35.79	43.51	49.52	74.00	-24.48	peak
3		4874.000	7.36	34.60	35.47	43.52	50.01	74.00	-23.99	peak
4		6934.778	8.87	35.74	35.53	43.86	52.94	74.00	-21.06	peak
5		7311.000	9.30	35.70	35.89	43.62	52.73	74.00	-21.27	peak
6	р	9748.000	12.46	37.40	37.43	40.54	52.97	74.00	-21.03	peak



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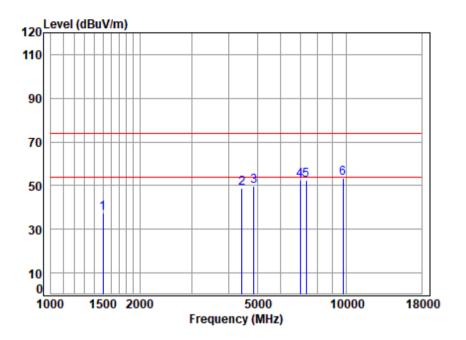


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Report No.: SZCR240200058404

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT

Mode : 2437 TX RSE

: 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		1498.781	4.06	26.77	38.39	44.78	37.22	74.00	-36.78	peak
2		4443.453	7.09	34.28	35.77	43.33	48.93	74.00	-25.07	peak
3		4874.000	7.36	34.60	35.47	43.04	49.53	74.00	-24.47	peak
4		6995.172	8.92	35.71	35.57	43.27	52.33	74.00	-21.67	peak
5		7311.000	9.30	35.70	35.89	43.30	52.41	74.00	-21.59	peak
6	р	9748.000	12.46	37.40	37.43	41.04	53.47	74.00	-20.53	peak



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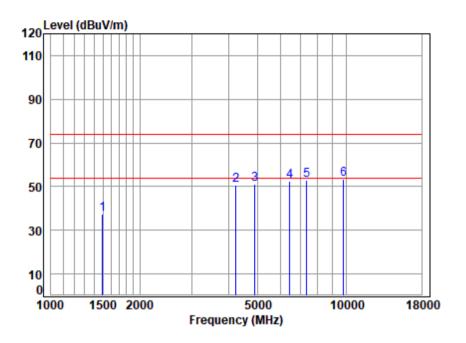


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 00584AT/00585AT Mode : 2452 TX RSE

: 2.4G WIFI 11N40

	Fr	eq			Preamp Factor			Limit Line		Remark	
	M	Hz .	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1494.4	155	4.05	26.64	38.39	45.15	37.45	74.00	-36.55	peak	
2	4230.3	96	6.94	33.80	35.92	45.78	50.60	74.00	-23.40	peak	
3	4904.0	00	7.37	34.69	35.45	44.61	51.22	74.00	-22.78	peak	
4	6432.7	32	8.51	35.40	35.20	43.97	52.68	74.00	-21.32	peak	
5	7356.0	00	9.36	35.71	35.94	43.60	52.73	74.00	-21.27	peak	
6	p 9808.0	00	12.50	37.28	37.41	40.93	53.30	74.00	-20.70	peak	



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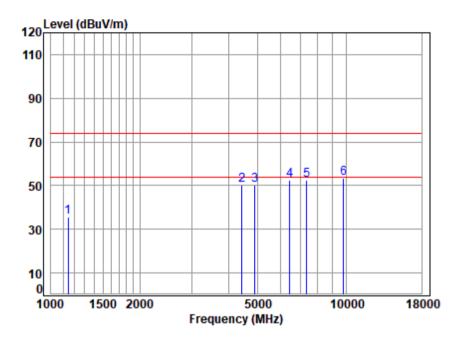


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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

: 00584AT/00585AT

Mode : 2452 TX RSE

: 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		1145.507	3.48	23.88	38.33	46.77	35.80	74.00	-38.20	peak
2		4430.628								-
3		4904.000								•
4		6451.353								•
5										•
6		9808.000								•



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#### **Test Setup Photo** 8

Refer to Appendix - Test Setup Photo for SZCR2402000584AT

#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for SZCR2402000584AT



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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	8.190	8.207	99.79	0.01	0.04						
802.11b	SISO	2437	8.193	8.210	99.79	0.01	0.04						
								2462	8.190	8.207	99.79	0.01	0.04
	SISO		2412	1.361	1.412	96.39	0.16	0.00					
802.11g		2437	1.361	1.412	96.39	0.16	0.03						
		2462	1.361	1.412	96.39	0.16	0.03						
000.44		2412	1.273	1.324	96.15	0.17	0.00						
802.11n (HT20)	SISO	2437	1.273	1.324	96.15	0.17	0.04						
(11120)		2462	1.273	1.324	96.15	0.17	0.03						
000.44		2422	0.633	0.684	92.54	0.34	0.03						
802.11n (HT40)	SISO	2437	0.633	0.684	92.54	0.34	0.03						
(11140)		2452	0.633	0.684	92.54	0.34	0.03						



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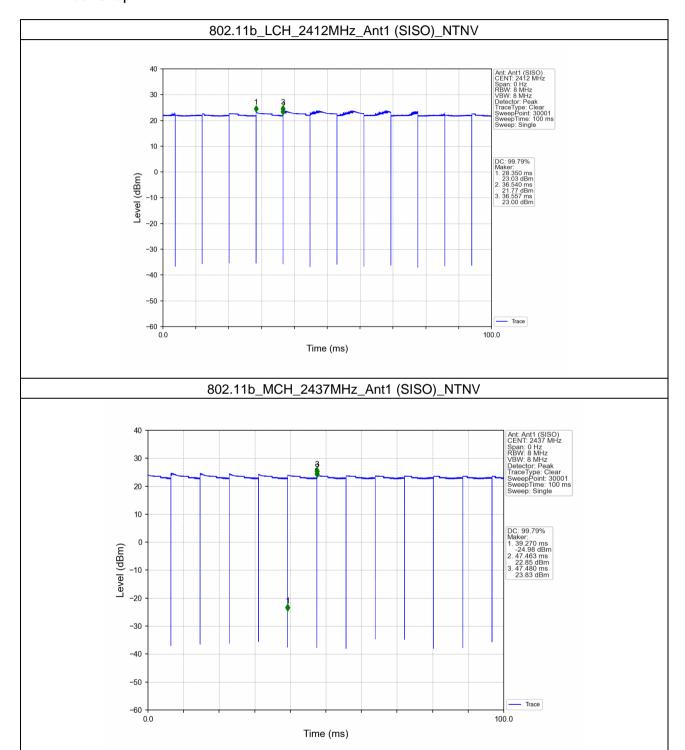


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#### 1.1.2 Test Graph





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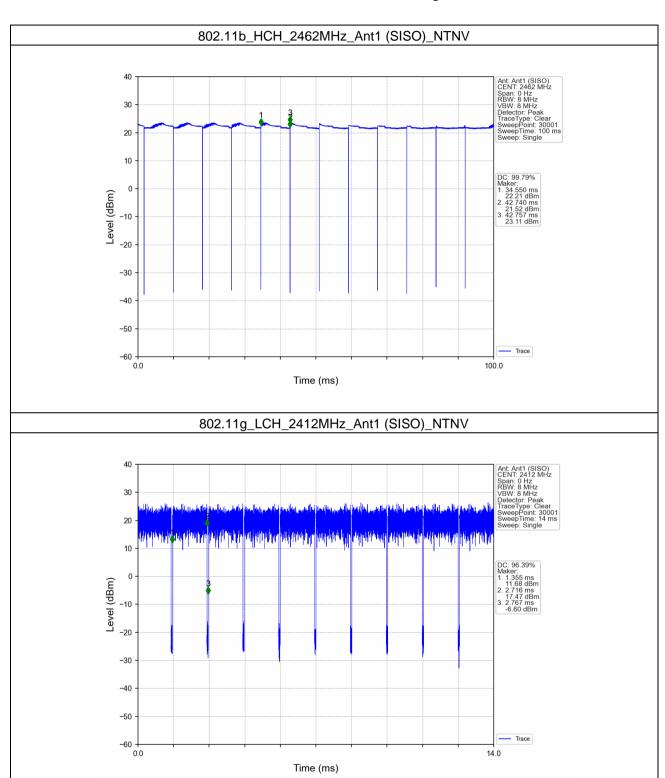
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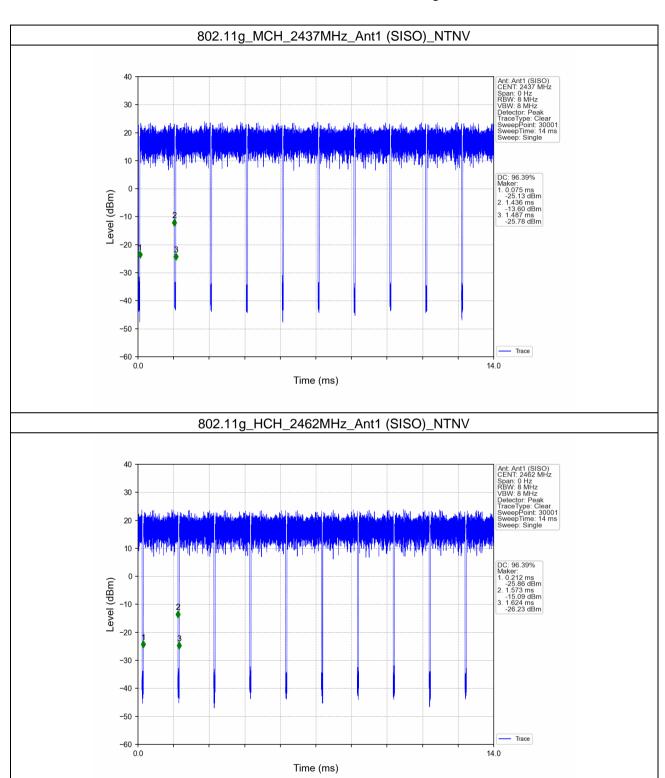
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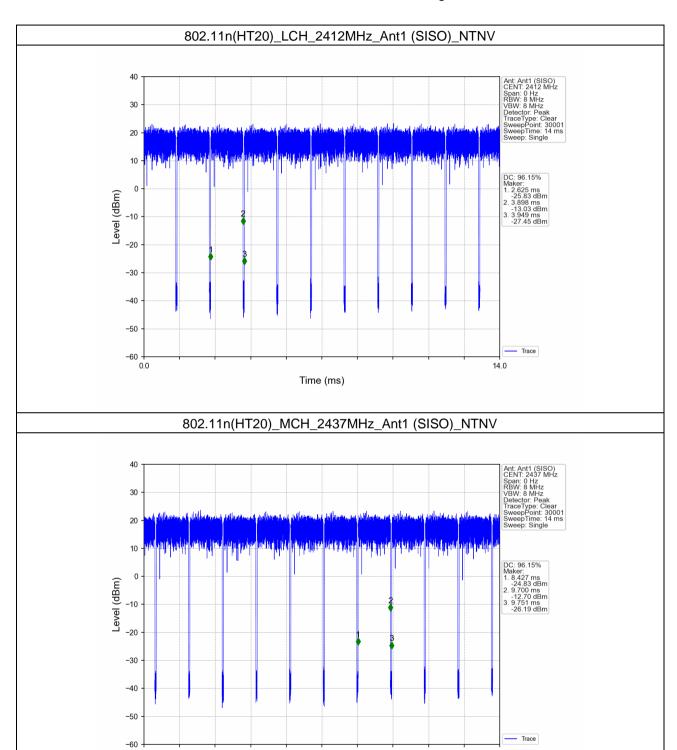
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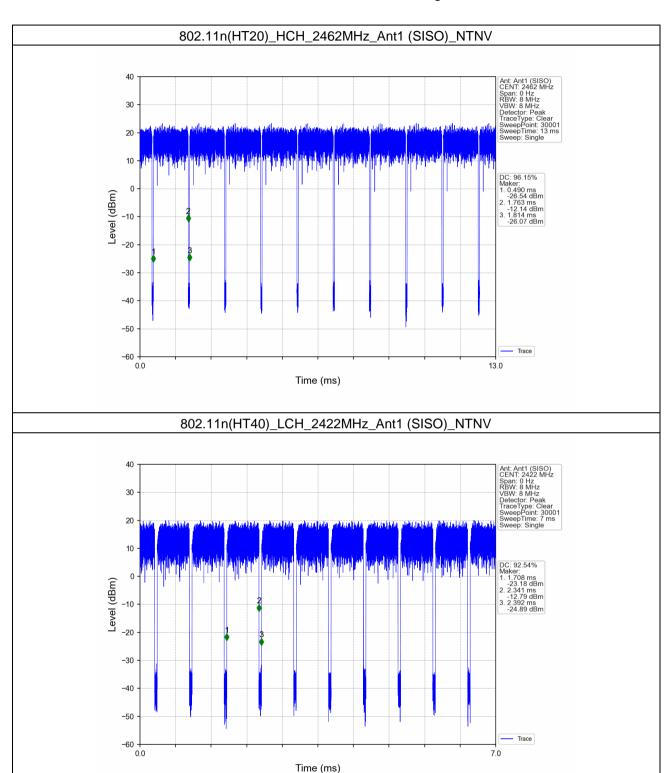
Time (ms)



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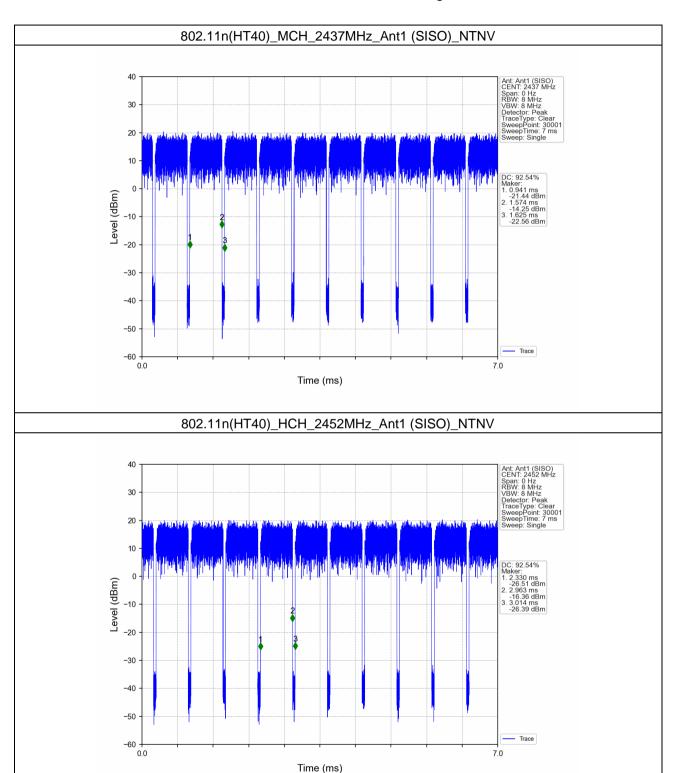
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#### 2. Bandwidth

#### 2.1 OBW

#### 2.1.1 Test Result

Mada	TX	Frequency	ANIT	99% Occupied B	andwidth (MHz)	\/o.rd:ot			
Mode	Type	(MHz)	ANT	Result	Limit	Verdict			
		2412	1	13.910	/	Pass			
802.11b	SISO	2437	1	13.904	/	Pass			
		2462	1	13.908	/	Pass			
		2412	1	16.957	/	Pass			
802.11g	SISO	SISO	2437	1	16.853	/	Pass		
		2462	1	16.863	/	Pass			
000.44			2412	1	17.891	/	Pass		
802.11n (HT20)	SISO	2437	1	17.884	/	Pass			
(11120)	0.00				2462	1	17.880	/	Pass
000.44	302.11n SISO	2422	1	35.325	/	Pass			
802.11n (HT40)		2437	1	35.312	/	Pass			
(11140)		2452	1	35.286	/	Pass			



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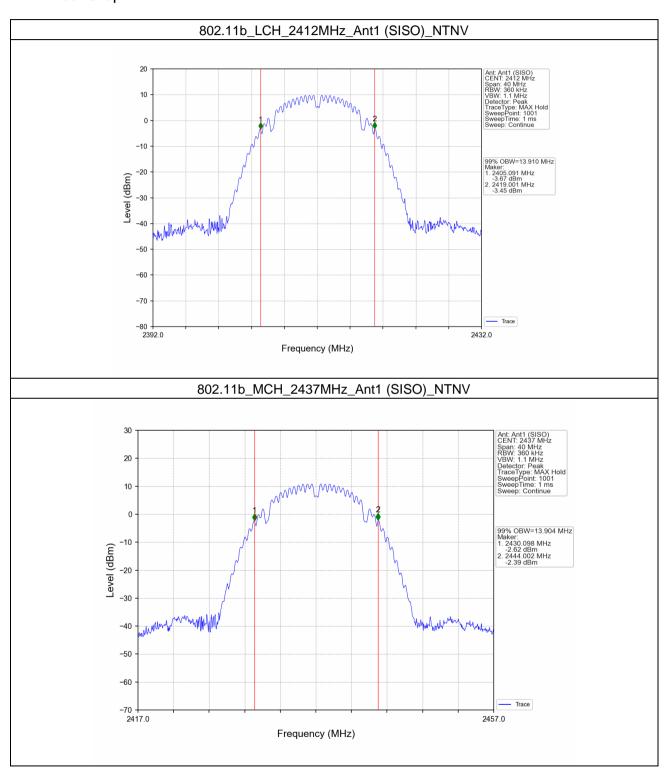


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#### 2.1.2 Test Graph





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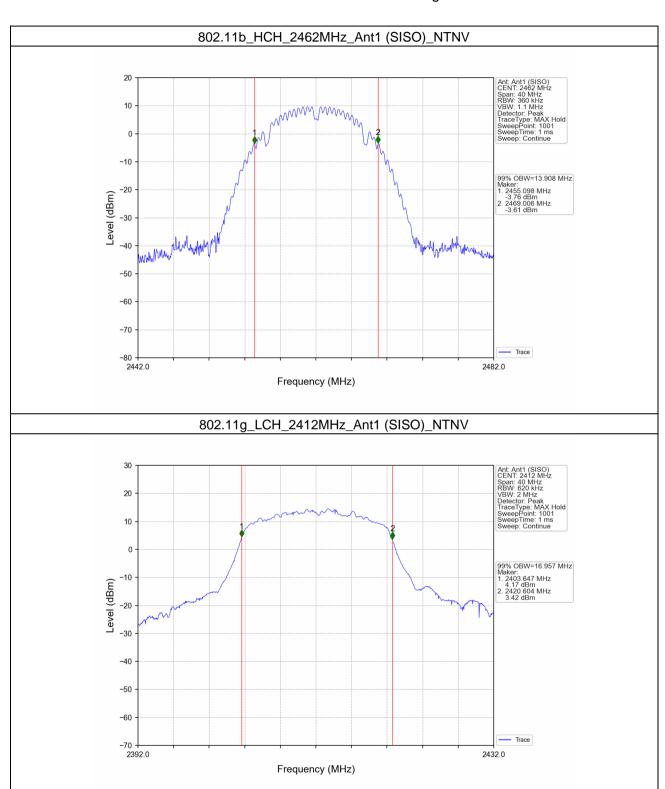
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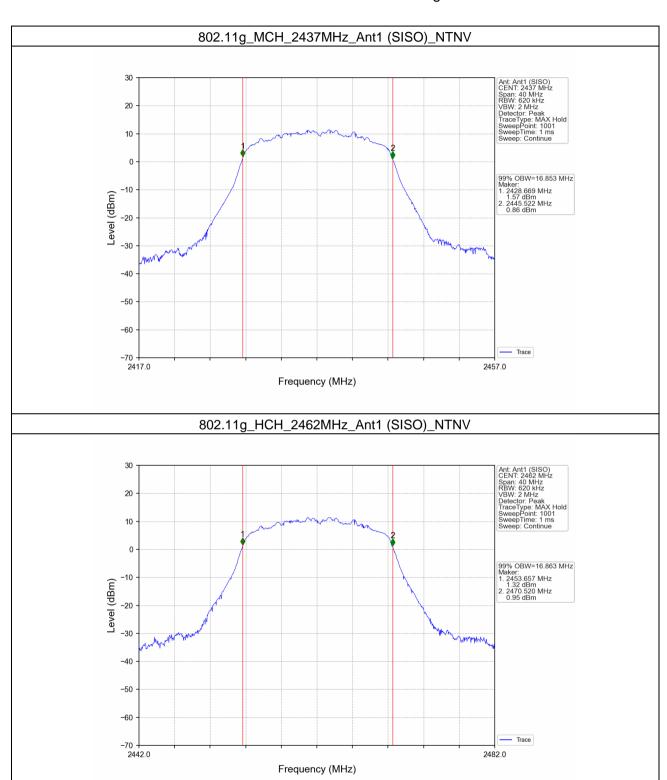
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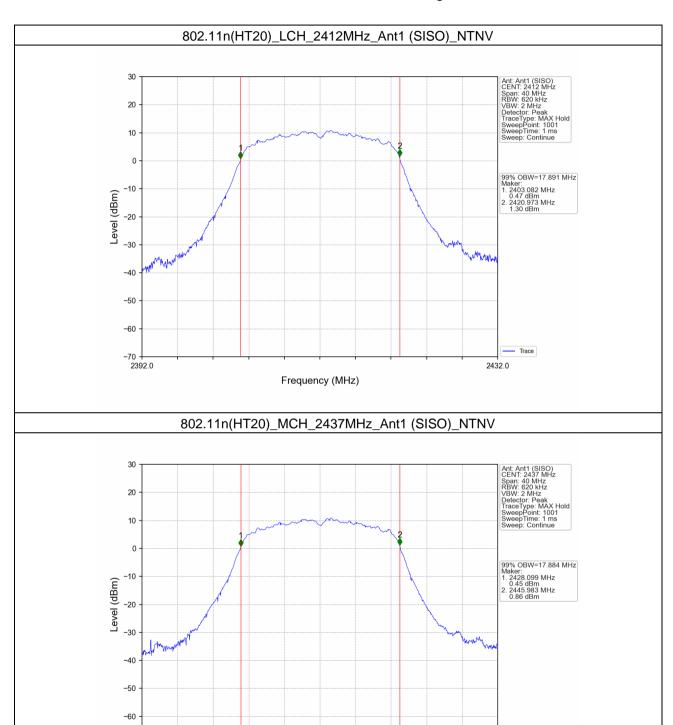
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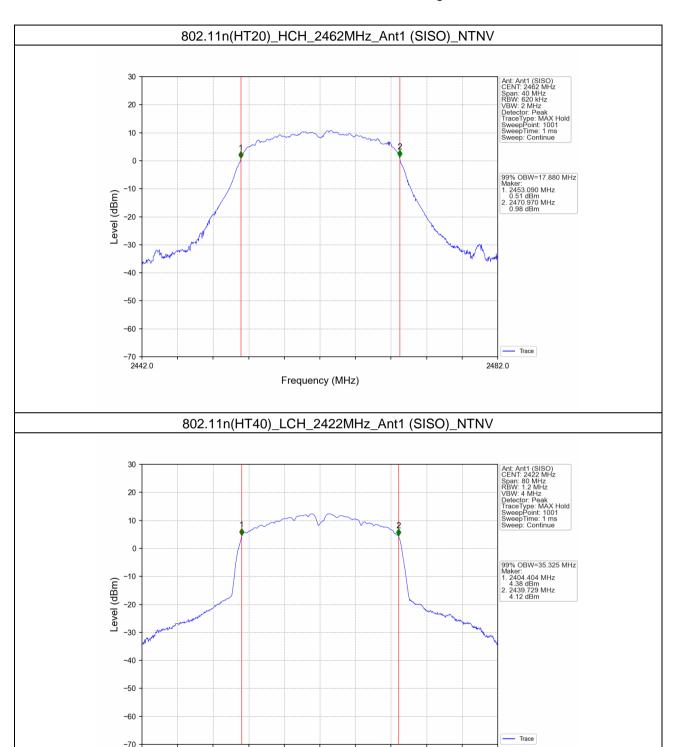
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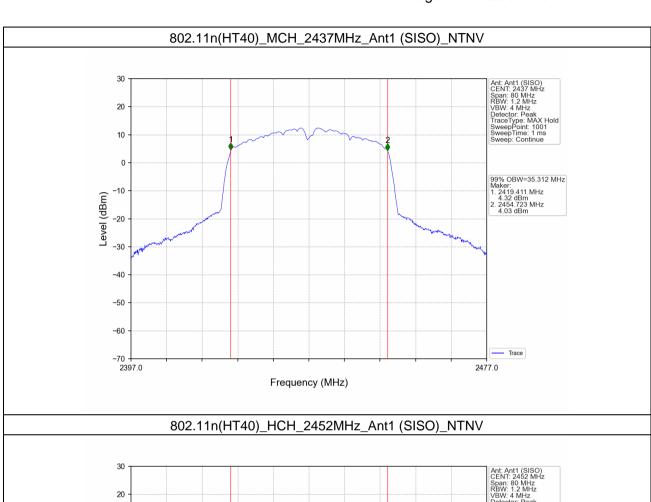
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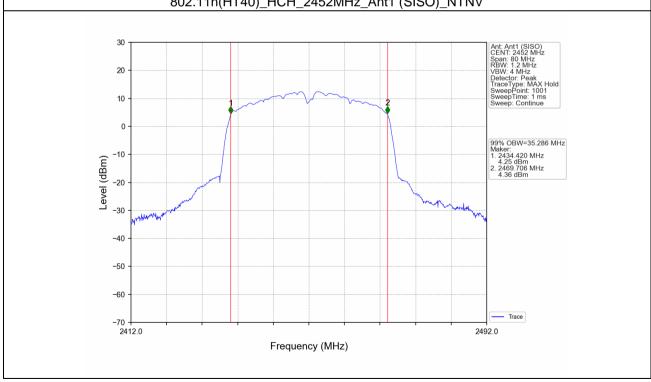


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#### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX	Frequency	ANT	6dB Bandv	vidth (MHz)	Verdict	
Mode	Type	(MHz)	AINT	Result	Limit	verdict	
		2412	1	9.603	>=0.5	Pass	
802.11b	SISO	2437	1	10.051	>=0.5	Pass	
		2462	1	9.592	>=0.5	Pass	
		2412	1	15.108	>=0.5	Pass	
802.11g	SISO	SISO	2437	1	15.099	>=0.5	Pass
		2462	1	15.106	>=0.5	Pass	
000.44		2412	1	15.104	>=0.5	Pass	
802.11n (HT20)	SISO	2437	1	15.118	>=0.5	Pass	
(11120)		2462	1	15.116	>=0.5	Pass	
	SISO	2422	1	32.577	>=0.5	Pass	
802.11n (HT40)		2437	1	31.341	>=0.5	Pass	
(11140)		2452	1	32.567	>=0.5	Pass	



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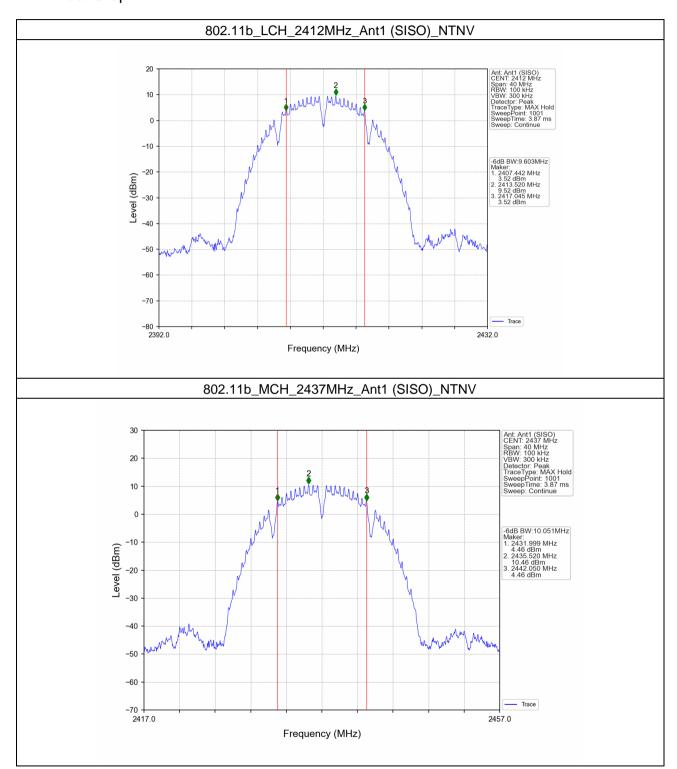


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#### 2.2.2 Test Graph





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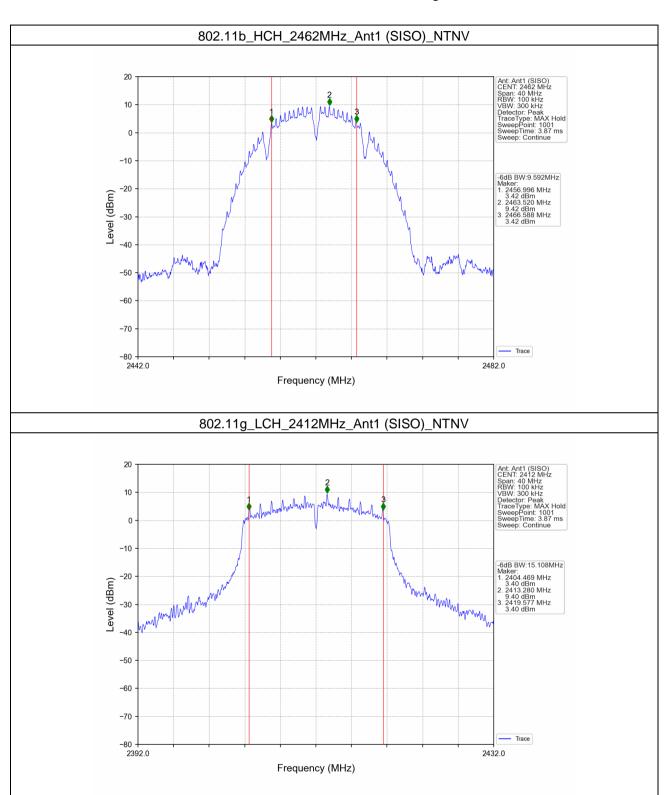
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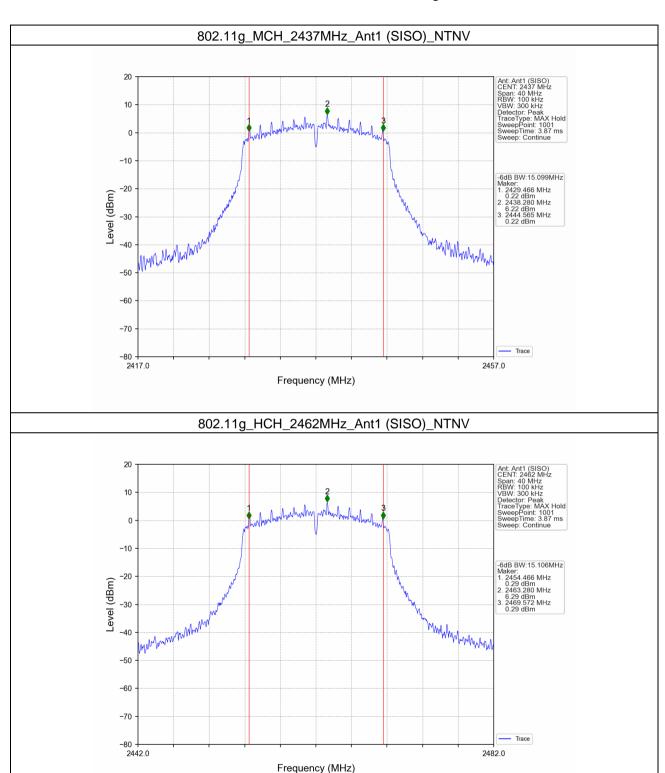
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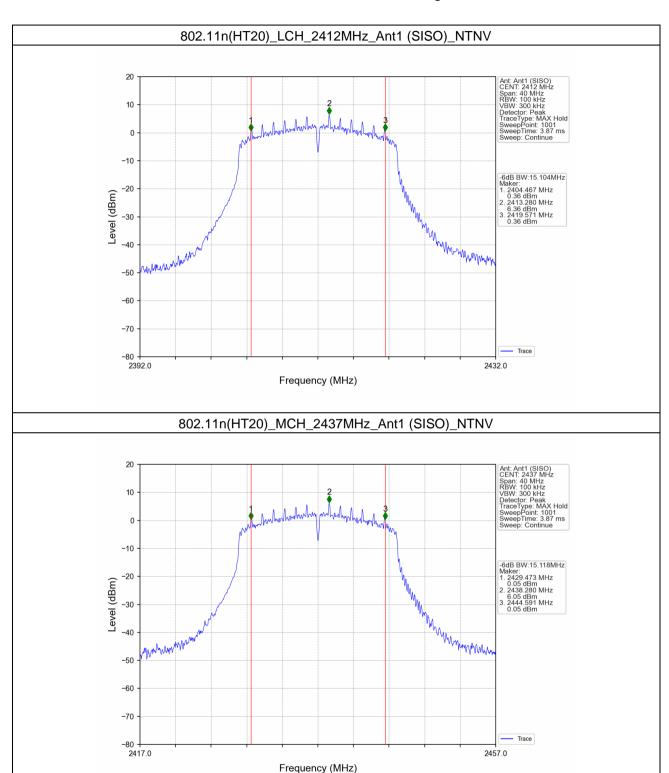
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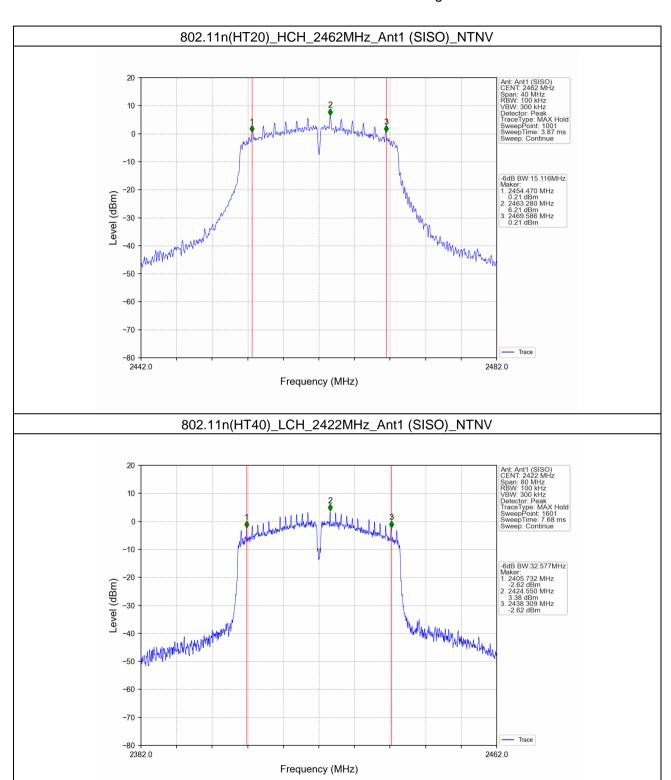
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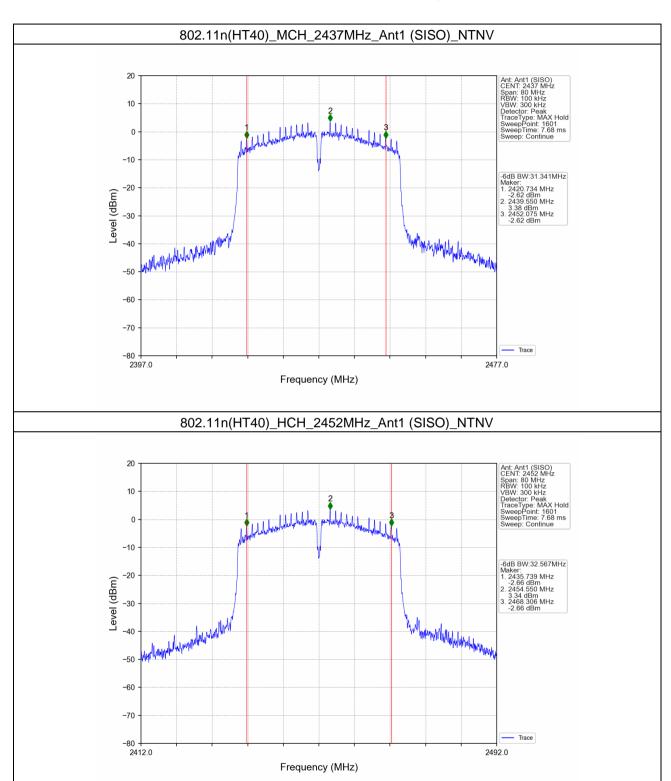
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#### 3. Maximum Conducted Output Power

#### 3.1 Power

#### 3.1.1 Test Result

Mode	TX	Frequency	Maximum Average Co (dB	•	Verdict													
	Туре	(MHz)	ANT1	Limit														
		2412	18.40	<=30	Pass													
802.11b	SISO	2437	18.33	<=30	Pass													
						2462	18.26	<=30	Pass									
	SISO					2412	15.91	<=30	Pass									
802.11g		2437	15.92	<=30	Pass													
			2462	15.99	<=30	Pass												
222.44	SISO	2412	15.80	<=30	Pass													
802.11n (HT20)		SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	2437	15.78	<=30
(11120)		2462	15.77	<=30	Pass													
222.44		2422	15.80	<=30	Pass													
802.11n (HT40)	SISO	SISO	SISO	2437	15.76	<=30	Pass											
(11140)		2452	15.75	<=30	Pass													
Note1: Antenna Gain: Ant1: 5.8dBi;																		



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### 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

Mada	TX	Frequency	Maximum PS	D (dBm/3kHz)	Vardiet			
Mode	Type	(MHz)	ANT1	Limit	Verdict			
		2412	-4.97	<=8	Pass			
802.11b	SISO	2437	-4.24	<=8	Pass			
		2462	-4.78	<=8	Pass			
		2412	-9.33	<=8	Pass			
802.11g	SISO	2437	-9.05	<=8	Pass			
		2462	-8.71	<=8	Pass			
000.44		2412	-7.69	<=8	Pass			
802.11n (HT20)	SISO	2437	-8.67	<=8	Pass			
(11120)		2462	-8.16	<=8	Pass			
000.44		2422	-11.37	<=8	Pass			
802.11n (HT40)	SISO	2437	-11.25	<=8	Pass			
(11140)		2452	-11.38	<=8	Pass			
Note1: Antenna Gain: Ant1: 5.8dBi;								



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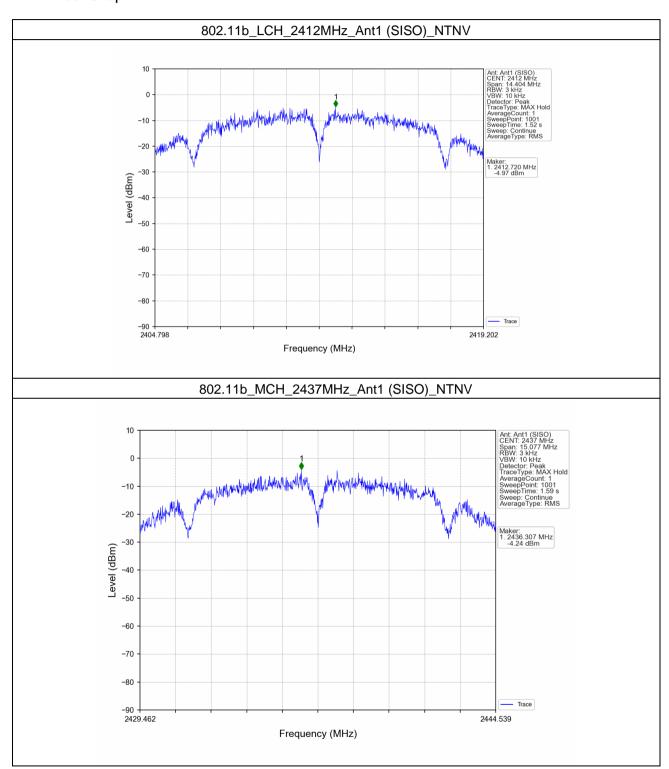


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#### 4.1.2 Test Graph





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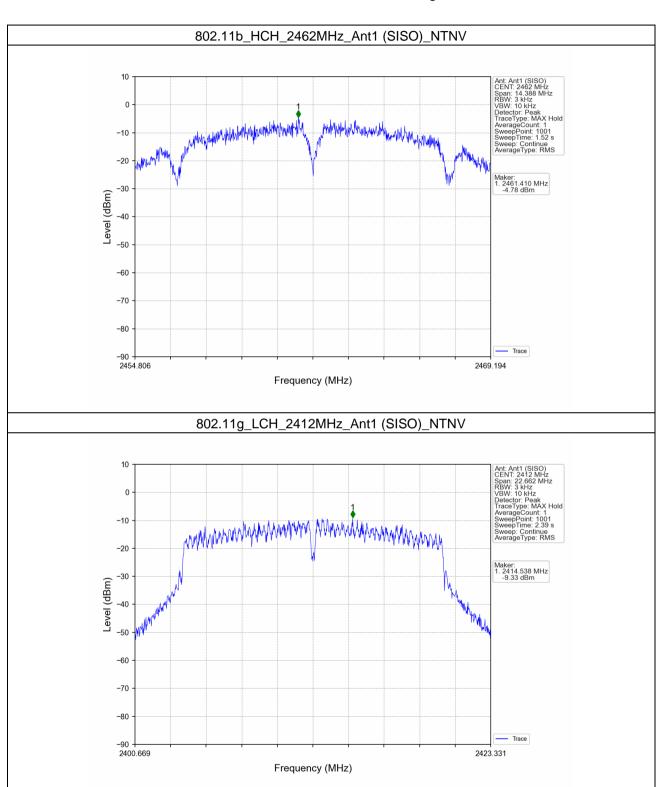
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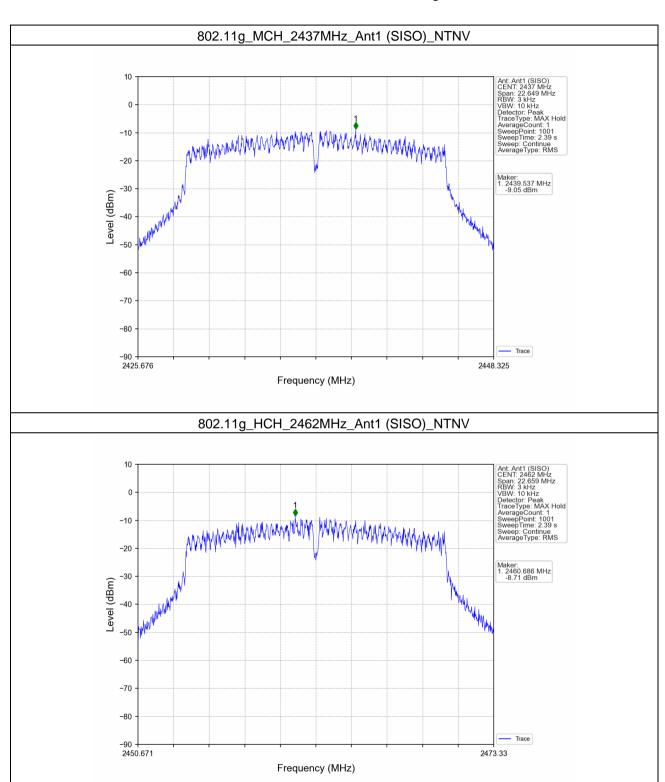
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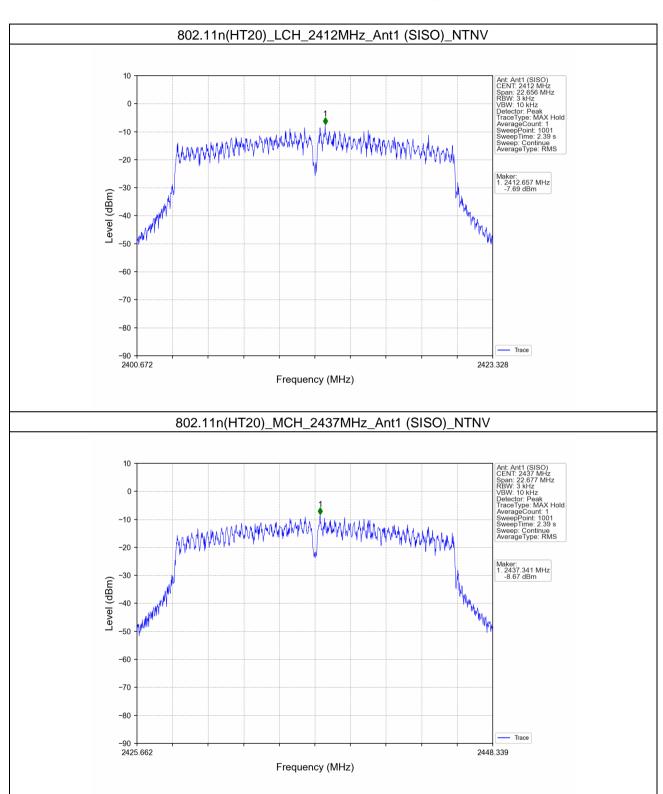
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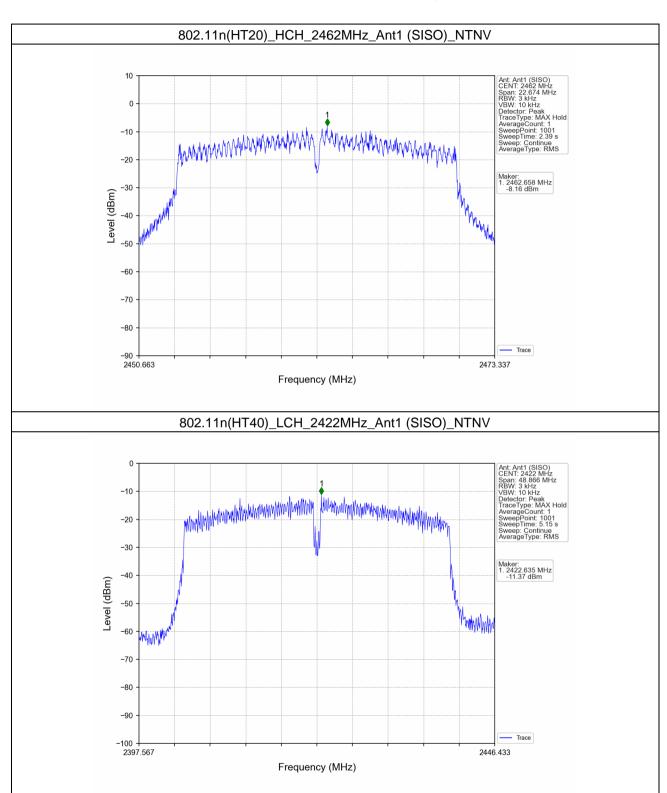
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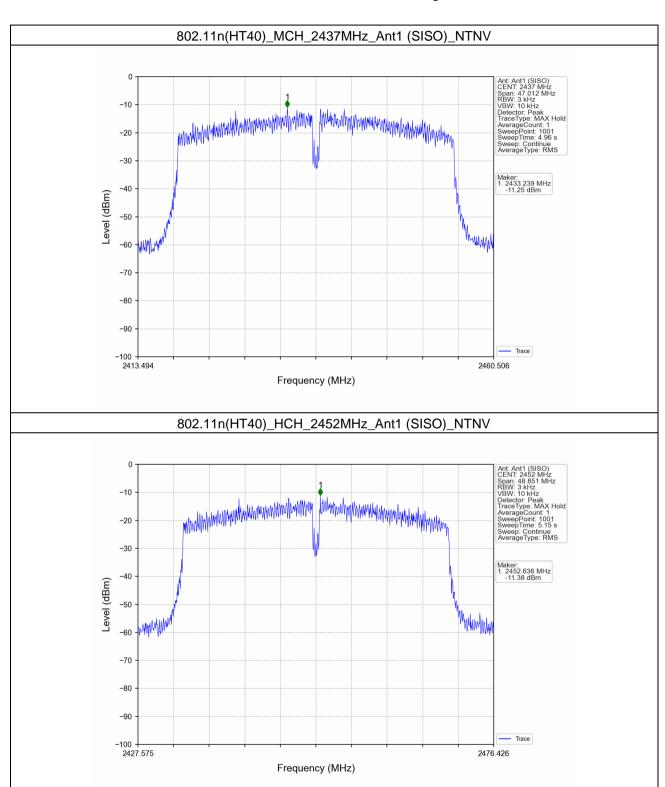
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#### 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	9.55
802.11b	SISO	2437	1	9.32
		2462	1	9.33
		2412	1	6.32
802.11g	SISO	2437	1	6.22
		2462	1	6.33
		2412	1	6.34
802.11n (HT20)	SISO	2437	1	6.15
(11120)		2462	1	6.28
		2422	1	3.25
802.11n (HT40)	SISO	2437	1	3.39
(11140)		2452	1	3.37

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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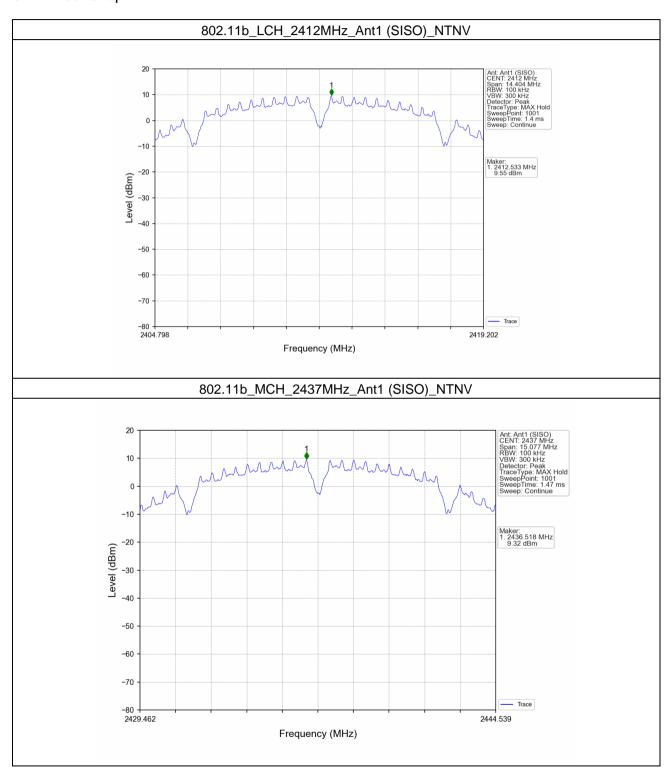


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#### 5.1.2 Test Graph





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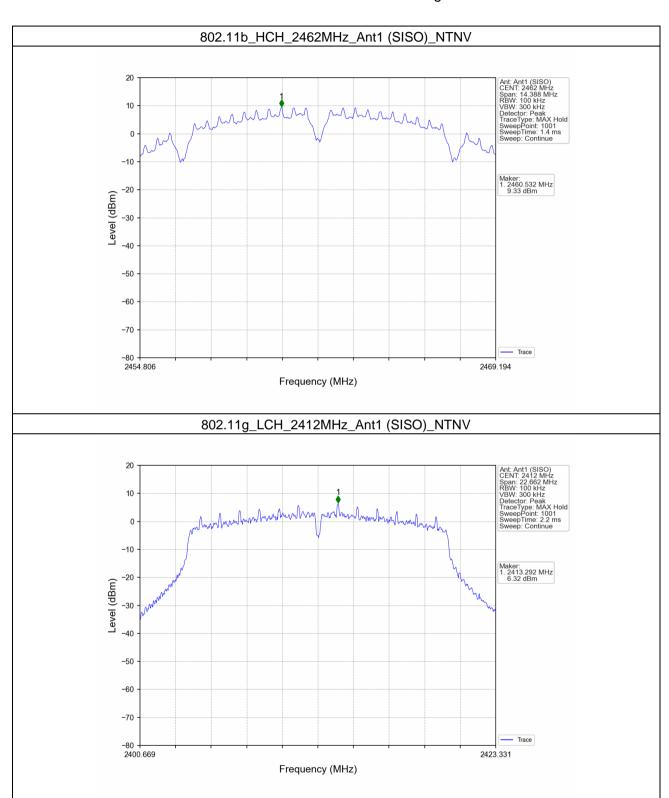
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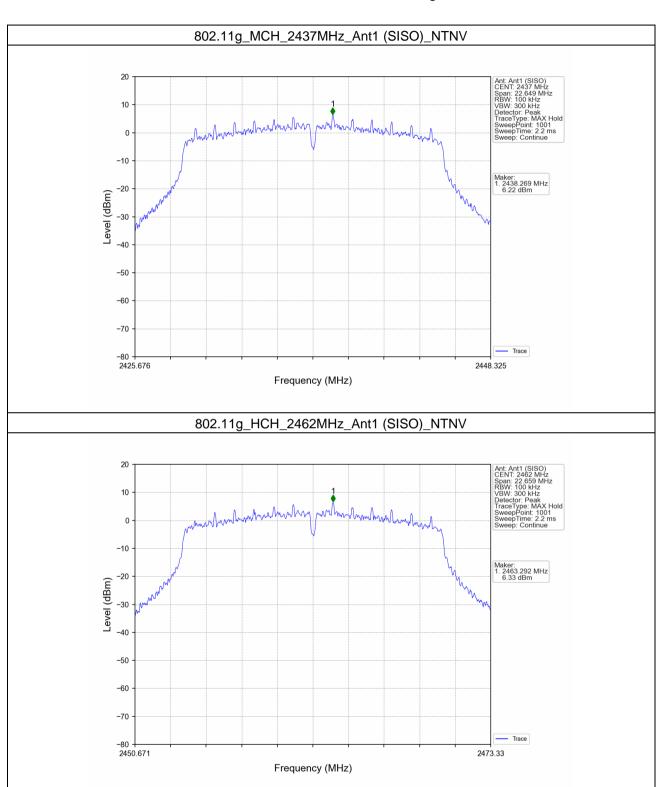
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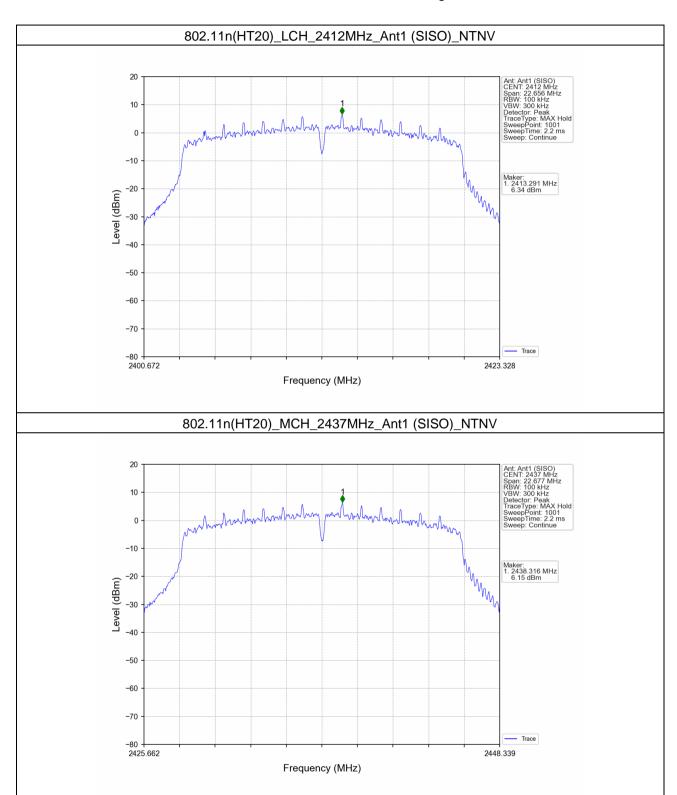
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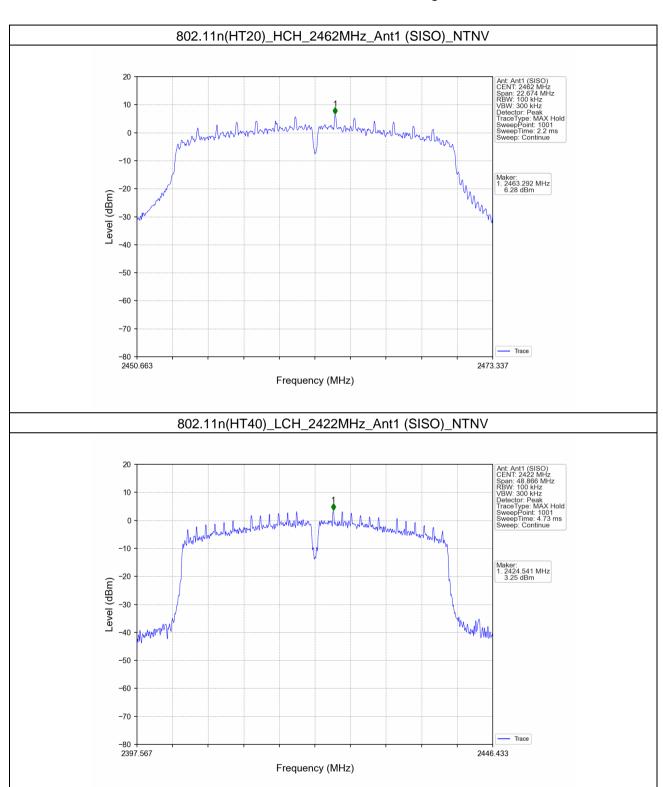
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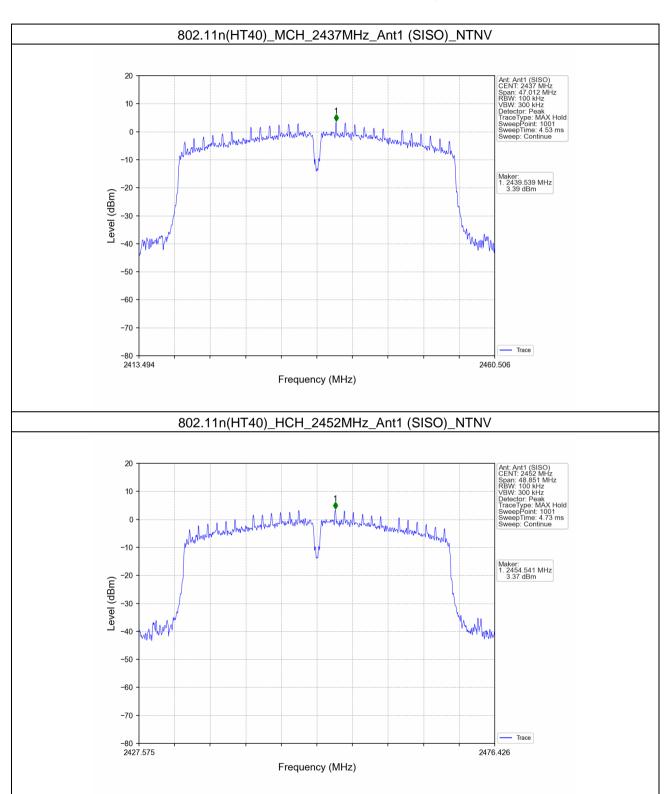
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