

Report No.: SZEM210200203004

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TEST REPORT

Application No.: SZEM2102002030CR

Applicant: AJAX SYSTEMS CYPRUS HOLDINGS LTD

Address of Applicant: Ifigeneias, 17, Strovolos, 2007, Nicosia, Cyprus

Manufacturer: AJAX SYSTEMS MANUFACTURING LIMITED LIABILITY COMPANY

Address of Manufacturer: Sklyarenka, 5, Kyiv, 04073, Ukraine

Factory: AJAX SYSTEMS MANUFACTURING LIMITED LIABILITY COMPANY

Address of Factory: Sklyarenka, 5, Kyiv, 04073, Ukraine

Equipment Under Test (EUT):

EUT Name: Security control panel **Model No.:** Ajax Hub 2 Plus (9NA/AFA)

Trade Mark: AJAX

FCC ID: 2AX5VHUB2PL

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

Date of Receipt: 2021-03-23

Date of Test: 2021-02-24 to 2021-03-25

Date of Issue: 2021-03-29

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. xu



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2021-03-29		Original			

Authorized for issue by:		
	Bolisonti	
	Edison Li/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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Test Summary

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1	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, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	3ubpart 0 13.247	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		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	

Emission Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 110~240V, 50/60Hz, 0.1A Backup Battery: 3.7V, Rechargeable Li-ion, 3000mAh	
Cable(a):		
Cable(s):	AC cable:142cm unshielded	
	network cable:94cm unshielded	
Internal Source:	More than 108MHz	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz	
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK)	
	802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)	
	802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM)	
Channel Numbers:	802.11b/g, 802.11n HT20: 11 Channels	
Sample Type:	Fixed device	
Antenna Type:	Flexible Inverted	
Antenna Gain:	2dBi	

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty		
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)		
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	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)		
Radiated Spurious Emissions	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR 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, 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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

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

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25	

RF Conducted Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2021-03-24	2022-03-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-31	2021-03-30
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-24	2022-03-23

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-31	2021-03-30
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-24	2022-03-23



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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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)

Limit:

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.

Antenna location: Refer to Internal photos.





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7 Radio Spectrum Matter Test Results

7.1 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

7.1.1 E.U.T. Operation

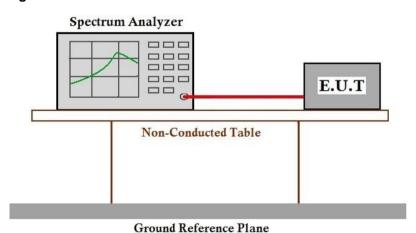
Operating Environment:

Temperature: 18.5 °C Humidity: 48.6 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Final test	02	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). Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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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 11.9.1

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 18.5 °C Humidity: 48.6 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

	7.2.2 Test mode bescription		
Pre-scan / Final test	Mode Code	Description	
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.	
Final test	02	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). Only the data of worst case is recorded in the report.	



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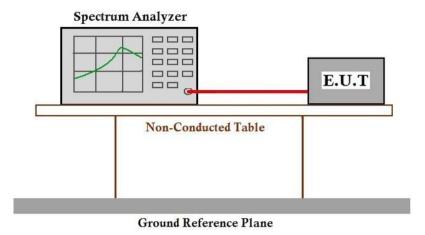
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.3 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

7.3.1 E.U.T. Operation

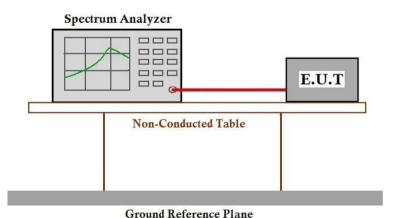
Operating Environment:

Temperature: 18.5 °C Humidity: 48.6 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Final test	02	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). 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 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).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 18.5 °C Humidity: 48.6 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.	
Final test	02	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). Only the data of worst case is recorded in the report.	



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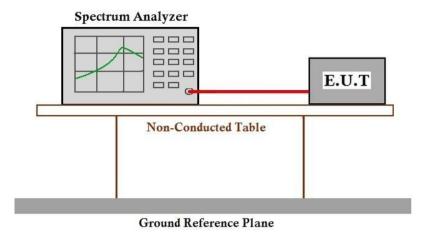
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 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 band

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: 18.5 °C Humidity: 48.6 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Final test	02	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). Only the data of worst case is recorded in the report.



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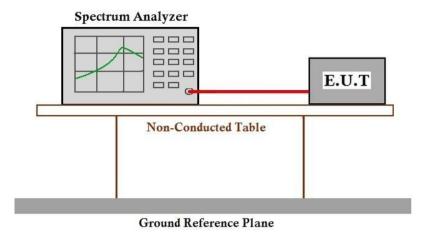
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Radiated Emissions which fall in the restricted bands

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

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

Limit:

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

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 18.5 °C Humidity: 48.6 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

1.0.2 TESLIV	7.6.2 Test Mode Description			
Pre-scan / Final test	Mode Code	Description		
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.		
Final test	02	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). Only the data of worst case is recorded in the report.		



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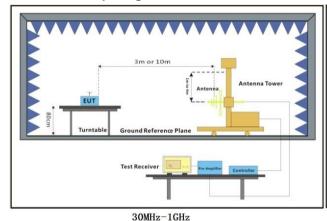
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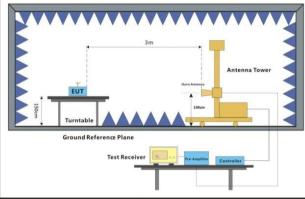


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7.6.3 Test Setup Diagram





Above 1GHz

7.6.4 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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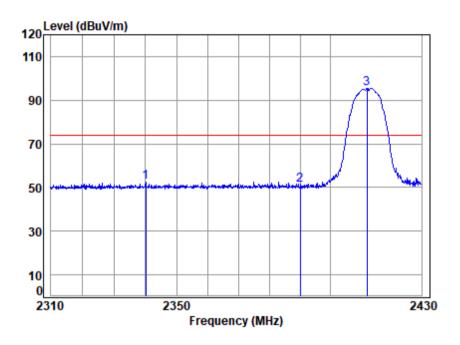
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02030CR/02031CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq		Ant Factor						Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2340.144	4.26	28.43	40.39	60.31	52.61	74.00	-21.39	peak
2	2390.000	4.34	28.52	40.42	58.56	51.00	74.00	-23.00	peak
3 *	2412.000	4.38	28.56	40.43	103.00	95.51	74.00	21.51	peak



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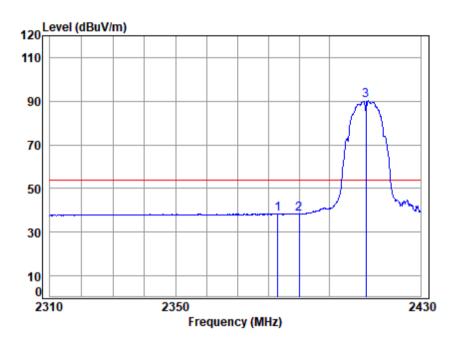
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2383.079	4.33	28.51	40.42	46.03	38.45	54.00	-15.55	Average
2	2390.000	4.34	28.52	40.42	45.76	38.20	54.00	-15.80	Average
3 *	2412.000	4.38	28.56	40.43	97.72	90.23	54.00	36.23	Average



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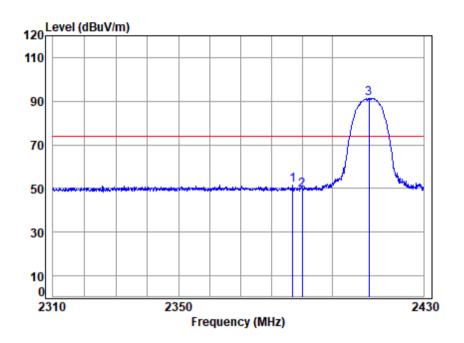
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2412 Band edge Note · 2 4G WIFT 11B

ote	. 2.	+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	
1	2386.944	4.34	28.51	40.42	59.29	51.72	74.00	-22.28	Peak
2	2390.000	4.34	28.52	40.42	56.91	49.35	74.00	-24.65	Peak
3 *	2412.000	4.38	28.56	40.43	98.83	91.34	74.00	17.34	Peak



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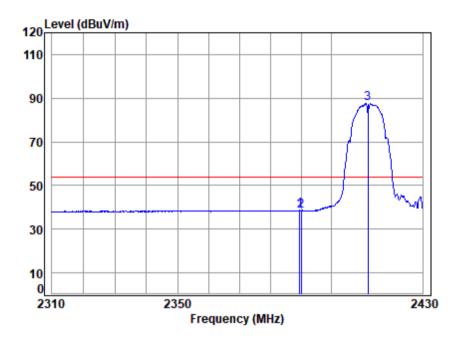
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.484	4.34	28.52	40.42	46.38	38.82	54.00	-15.18	Average
2	2390.000	4.34	28.52	40.42	45.97	38.41	54.00	-15.59	Average
3 *	2412.000	4.38	28.56	40.43	95.04	87.55	54.00	33.55	Average



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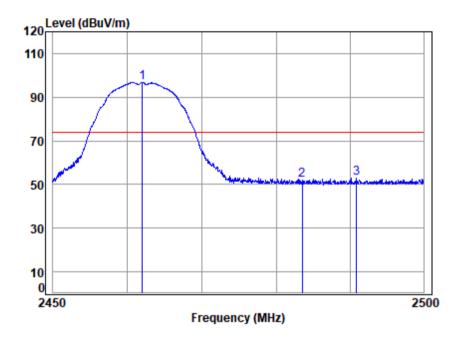
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02030CR/02031CR Mode : 2462 Band edge Note · 2 4G WIFT 11B

iore	. 2.	4G MIL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	40.46	104.18	96.82	74.00	22.82	peak
2	2483.500	4.49	28.67	40.47	59.10	51.79	74.00	-22.21	peak
3	2490.875	4.51	28.69	40.47	60.29	53.02	74.00	-20.98	peak



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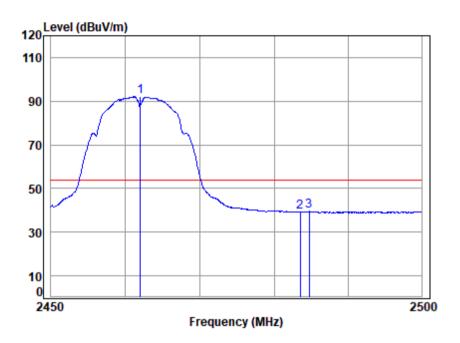
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

				Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2 2		4.49	28.67	40.47	46.60	39.29	54.00	-14.71	Average Average



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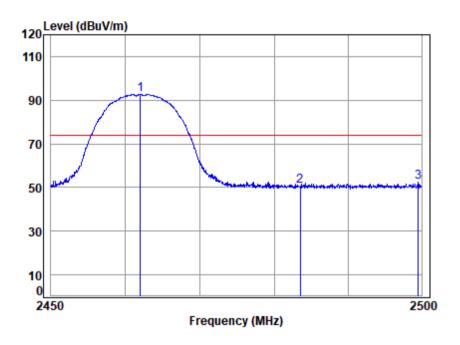
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2462 Band edge Note · 2 4G WTFT 11R

ote	. 2.	4G MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	2462.000	4.46	28.64	40.46	100.02	92.66	74.00	18.66	Peak	
2	2483.500	4.49	28.67	40.47	58.09	50.78	74.00	-23.22	Peak	
3	2499.545	4.52	28.70	40.47	59.76	52.51	74.00	-21.49	Peak	



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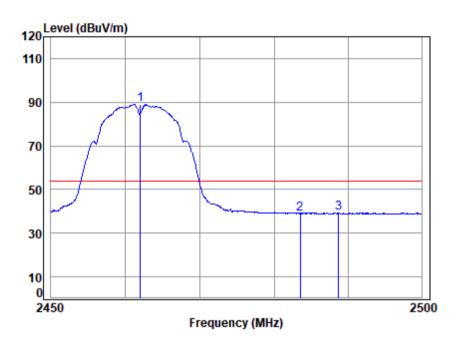
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02030CR/02031CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

	_										
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
_										_	
1	*	2462.000	4.46	28.64	40.46	96.25	88.89	54.00	34.89	Average	
2		2483.500	4.49	28.67	40.47	46.32	39.01	54.00	-14.99	Average	
3		2488.712	4.50	28.68	40.47	46.55	39.26	54.00	-14.74	Average	



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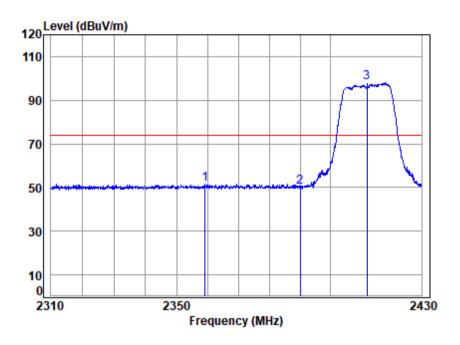
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02030CR/02031CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Freq				Read Level				Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2359.183								•
					57.82				•
3 *	2412.000	4.38	28.56	40.43	105.40	97.91	74.00	23.91	peak



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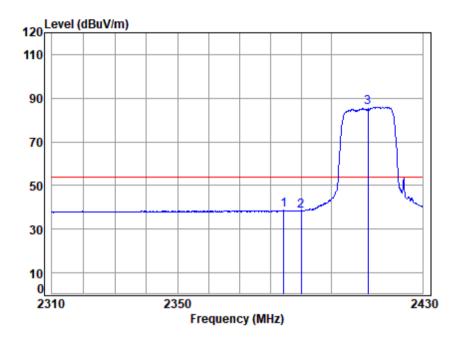
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02030CR/02031CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2384.286	4.34	28.51	40.42	46.19	38.62	54.00	-15.38	Average
2	2390.000	4.34	28.52	40.42	45.83	38.27	54.00	-15.73	Average
3 *	2412.000	4.38	28.56	40.43	93.43	85.94	54.00	31.94	Average



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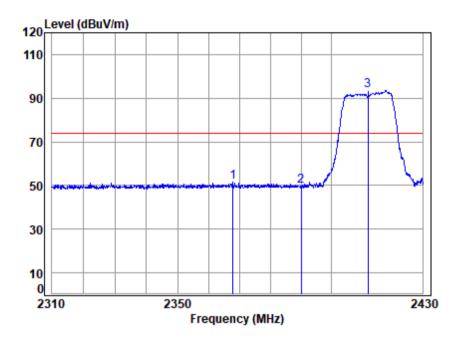
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2412 Band edge Note · 2 4G WIFT 11G

ote	. 2.	+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		
1	2367.921	4.31	28.48	40.41	58.98	51.36	74.00	-22.64	Peak	
2	2390.000	4.34	28.52	40.42	57.42	49.86	74.00	-24.14	Peak	
3 *	2412,000	4.38	28.56	40.43	101.15	93.66	74.00	19.66	Peak	



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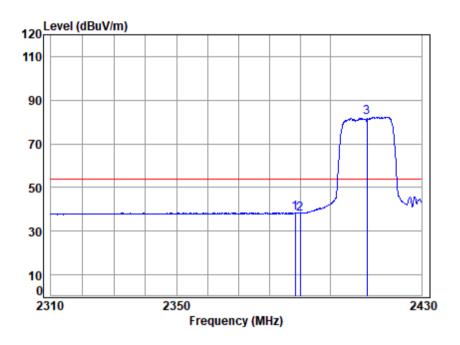
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2388.395 2390.000								Average Average
3 *	2412.000	4.38	28.56	40.43	89.84	82.35	54.00	28.35	Average



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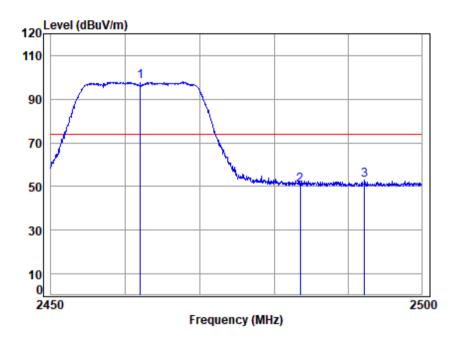
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

			Ant						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m			dRuV/m	dBuV/m	——dB	
	11112	ub.	ub/III	ub	ubuv	ubuv/III	ubuv/III	ub	
1	* 2462.000	4.46	28.64	40.46	105.24	97.88	74.00	23.88	peak
2	2483.500	4.49	28.67	40.47	57.87	50.56	74.00	-23.44	peak
3	2492.234	4.51	28.69	40.47	60.31	53.04	74.00	-20.96	peak



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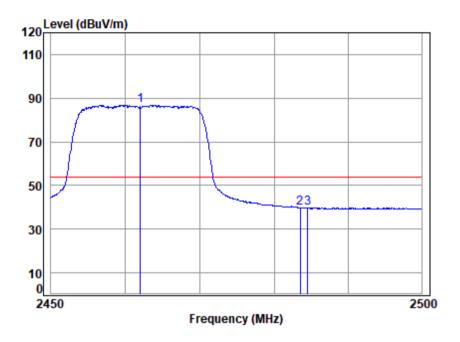
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

	_								
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
*	2462.000	4.46	28.64	40.46	94.17	86.81	54.00	32.81	Average
	2483.500	4.49	28.67	40.47	47.09	39.78	54.00	-14.22	Average
	2484.542	4.50	28.67	40.47	47.22	39.92	54.00	-14.08	Average
		MHz * 2462.000 2483.500	Freq Loss MHz dB * 2462.000 4.46 2483.500 4.49	Freq Loss Factor MHz dB dB/m * 2462.000 4.46 28.64 2483.500 4.49 28.67	# 2462.000 4.46 28.64 40.46 2483.500 4.49 28.67 40.47	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV * 2462.000 4.46 28.64 40.46 94.17 2483.500 4.49 28.67 40.47 47.09	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m * 2462.000 4.46 28.64 40.46 94.17 86.81 2483.500 4.49 28.67 40.47 47.09 39.78	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m * 2462.000 4.46 28.64 40.46 94.17 86.81 54.00 2483.500 4.49 28.67 40.47 47.09 39.78 54.00	* 2462.000



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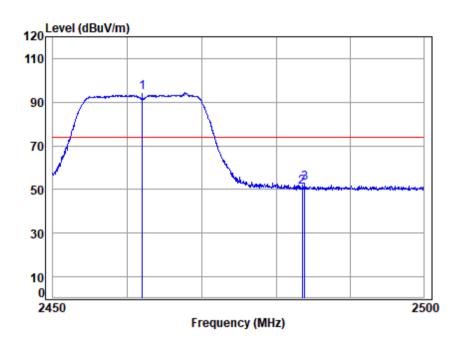
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2462 Band edge Note · 2 4G WIFT 11G

ote	. Z.	+G MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	2462.000	4.46	28.64	40.46	101.60	94.24	74.00	20.24	Peak	
2	2483.500	4.49	28.67	40.47	58.46	51.15	74.00	-22.85	Peak	
3	2483.890	4.49	28.67	40.47	60.12	52.81	74.00	-21.19	Peak	



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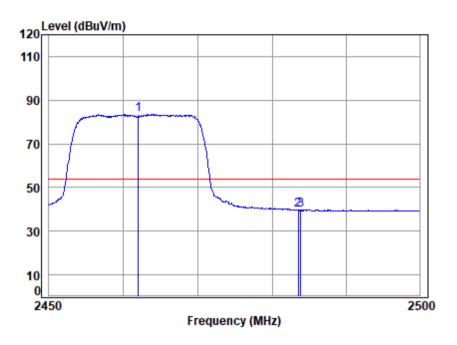
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark	
	MHz			dB				dB		
1	* 2462.000	4.46	28.64	40.46	90.96	83.60	54.00	29.60	Average	
									Average	
3	2483.840	4.49	28.67	40.47	47.07	39.76	54.00	-14.24	Average	



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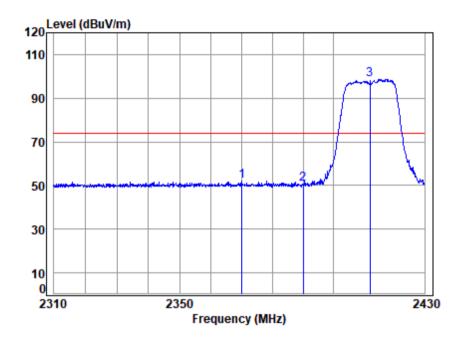
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02030CR/02031CR Mode : 2412 Band edge Note : 2.4G WIFI 11N20

		Freq				Read Level				Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2370.200	4.31	28.48	40.41	59.76	52.14	74.00	-21.86	peak
2		2390.000	4.34	28.52	40.42	58.00	50.44	74.00	-23.56	peak
3	*	2412.000	4.38	28.56	40.43	106.22	98.73	74.00	24.73	peak



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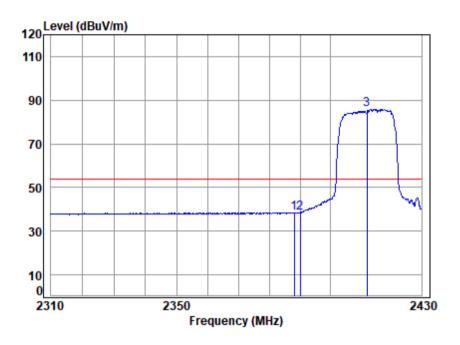
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02030CR/02031CR Mode : 2412 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	2388.154	4.34	28.52	40.42	46.10	38.54	54.00	-15.46	Average	
2	2390.000	4.34	28.52	40.42	46.03	38.47	54.00	-15.53	Average	
3 *	2412.000	4.38	28.56	40.43	93.24	85.75	54.00	31.75	Average	



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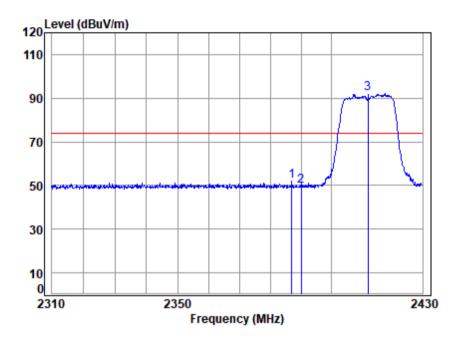
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2412 Band edge Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.944	4.34	28.51	40.42	59.43	51.86	74.00	-22.14	Peak
2	2390.000	4.34	28.52	40.42	57.34	49.78	74.00	-24.22	Peak
3 *	2412.000	4.38	28.56	40.43	99.51	92.02	74.00	18.02	Peak



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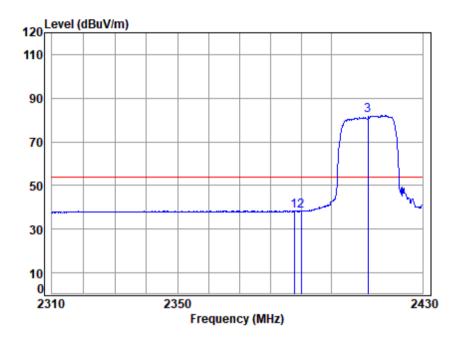
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2412 Band edge Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.791	4.34	28.51	40.42	45.96	38.39	54.00	-15.61	Average
2	2390.000	4.34	28.52	40.42	45.88	38.32	54.00	-15.68	Average
3 *	2412.000	4.38	28.56	40.43	89.44	81.95	54.00	27.95	Average



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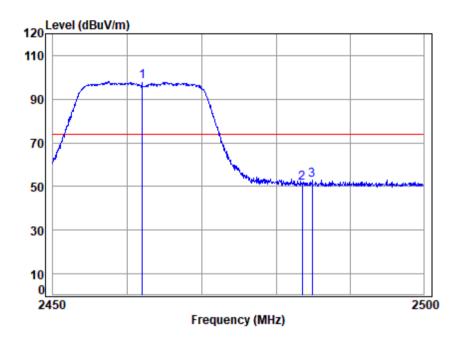
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 02030CR/02031CR Mode : 2462 Band edge Note · 2 4G WIFT 11N20

ice	. 2.4	+G MTL	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 *	2462.000	4.46	28.64	40.46	105.46	98.10	74.00	24.10	peak
2	2483.500	4.49	28.67	40.47	58.69	51.38	74.00	-22.62	peak
3	2484.894	4.50	28.68	40.47	60.41	53.12	74.00	-20.88	peak



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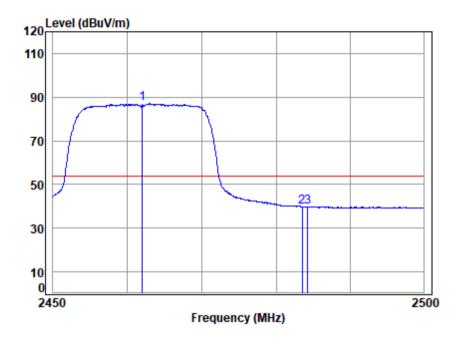
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR 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	* 2462.000	4.46	28.64	40.46	94.39	87.03	54.00	33.03	Average
2	2483.500	4.49	28.67	40.47	47.15	39.84	54.00	-14.16	Average
3	2484.292	4.50	28.67	40.47	47.21	39.91	54.00	-14.09	Average



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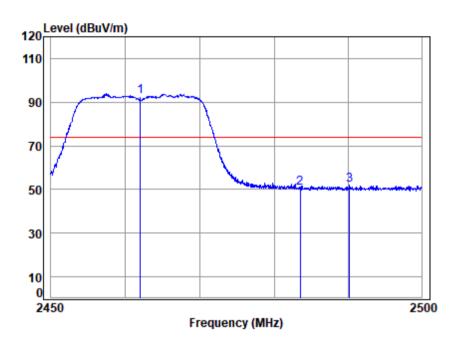
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR Mode : 2462 Band edge Note : 2.4G WIFI 11N20

ote	. 2.	4G MIL	T TTIVE	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 *	2462.000	4.46	28.64	40.46	100.21	92.85	74.00	18.85	Peak
2	2483.500	4.49	28.67	40.47	58.09	50.78	74.00	-23.22	Peak
3	2490.221	4.50	28.68	40.47	59.22	51.93	74.00	-22.07	Peak



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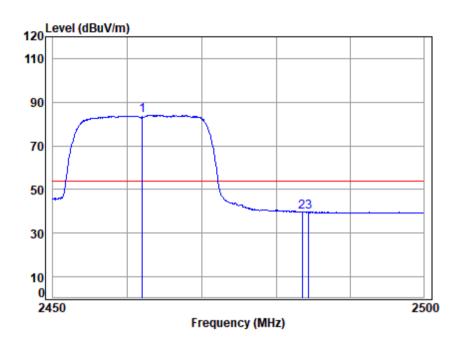
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR 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	* 2462.000	4.46	28.64	40.46	91.48	84.12	54.00	30.12	Average	
2	2483.500	4.49	28.67	40.47	46.84	39.53	54.00	-14.47	Average	
3	2484.392	4.50	28.67	40.47	47.11	39.81	54.00	-14.19	Average	



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7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209 Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance:

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: 18.5 °C Humidity: 48.6 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.
Final test	02	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). Only the data of worst case is recorded in the report.



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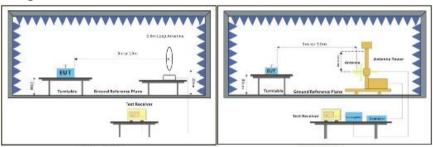
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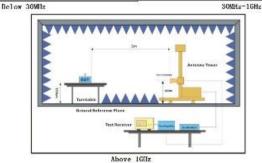


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7.7.3 Test Setup Diagram









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7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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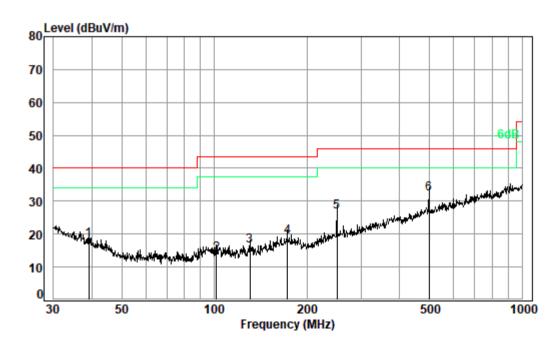
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No. : 02030CR

Test Mode: 02

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MII-					JD: 3//	JD: 377		
	MHz	ав	aB/m	dB	abuv	abuv/m	aBuv/m	dB	
1	39.16	0.69	18.50	27.71	26.70	18.18	40.00	-21.82	QP
2	101.64	1.10	13.95	27.60	26.40	13.85	43.50	-29.65	QP
3	130.38	1.14	12.54	27.43	30.07	16.32	43.50	-27.18	QP
4	172.60	1.18	15.55	27.24	29.72	19.21	43.50	-24.29	QP
5	250.30	1.64	18.20	26.99	33.98	26.83	46.00	-19.17	QP
6 pp	499.42	2.50	24.11	27.80	33.30	32.11	46.00	-13.89	QP



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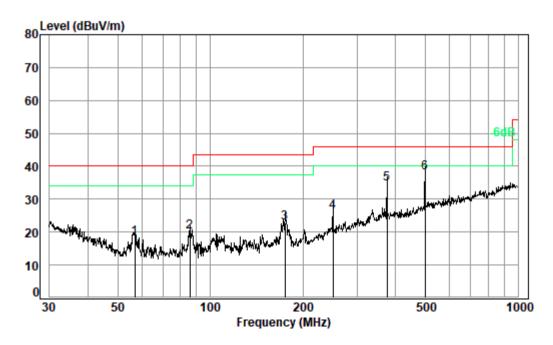
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No. : 02030CR

Test Mode: 02

		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	56.79	0.77	13.02	27.67	32.07	18.19	40.00	-21.81	QP
2	85.90	1.26	12.49	27.63	33.84	19.96	40.00	-20.04	QP
3	175.04	1.18	15.50	27.23	33.34	22.79	43.50	-20.71	QP
4	250.30	1.64	18.20	26.99	33.41	26.26	46.00	-19.74	QP
5	374.62	2.23	22.20	27.27	37.66	34.82	46.00	-11.18	QP
6 pp	499.42	2.50	24.11	27.80	39.10	37.91	46.00	-8.09	QP



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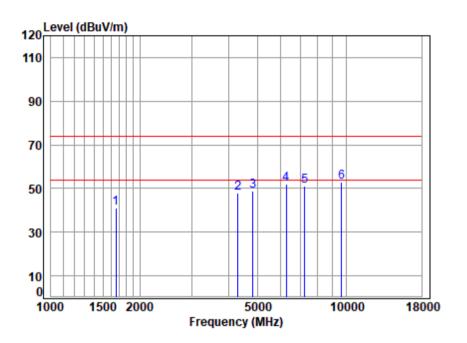
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR Mode : 2412 TX RSE

Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	3.40	26.50	40.04	51.20	41.06	74.00	-32.94	peak
2	4304.400	6.58	33.26	41.70	49.61	47.75	74.00	-26.25	peak
3	4824.000	7.12	34.00	42.16	49.77	48.73	74.00	-25.27	peak
4	6267.553	8.27	35.37	42.20	50.65	52.09	74.00	-21.91	peak
5	7236.000	8.77	36.09	41.48	47.77	51.15	74.00	-22.85	peak
6	9648.000	10.79	37.69	37.69	42.33	53.12	74.00	-20.88	peak



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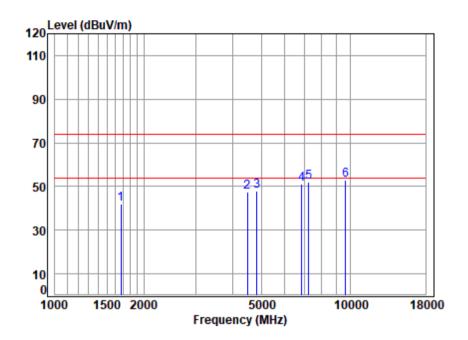
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR

Mode : 2412 TX RSE Note : 2.4G WIFI 11B

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1672.779	3.41	26.56	40.05	51.91	41.83	74.00	-32.17	peak
4482.150	6.74	33.57	41.86	49.09	47.54	74.00	-26.46	peak
4824.000	7.12	34.00	42.16	48.95	47.91	74.00	-26.09	peak
6855.063	8.47	35.82	41.80	48.40	50.89	74.00	-23.11	peak
7236.000	8.77	36.09	41.48	48.57	51.95	74.00	-22.05	peak
9648.000	10.79	37.69	37.69	42.35	53.14	74.00	-20.86	peak
	MHz 1672.779 4482.150 4824.000 6855.063 7236.000	Freq Loss MHz dB 1672.779 3.41 4482.150 6.74 4824.000 7.12 6855.063 8.47 7236.000 8.77	Freq Loss Factor MHz dB dB/m 1672.779 3.41 26.56 4482.150 6.74 33.57 4824.000 7.12 34.00 6855.063 8.47 35.82 7236.000 8.77 36.09	Freq Loss Factor Factor MHz dB dB/m dB 1672.779 3.41 26.56 40.05 4482.150 6.74 33.57 41.86 4824.000 7.12 34.00 42.16 6855.063 8.47 35.82 41.80 7236.000 8.77 36.09 41.48	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1672.779 3.41 26.56 40.05 51.91 4482.150 6.74 33.57 41.86 49.09 4824.000 7.12 34.00 42.16 48.95 6855.063 8.47 35.82 41.80 48.40 7236.000 8.77 36.09 41.48 48.57	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1672.779 3.41 26.56 40.05 51.91 41.83 4482.150 6.74 33.57 41.86 49.09 47.54 4824.000 7.12 34.00 42.16 48.95 47.91 6855.063 8.47 35.82 41.80 48.40 50.89 7236.000 8.77 36.09 41.48 48.57 51.95	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1672.779 3.41 26.56 40.05 51.91 41.83 74.00 4482.150 6.74 33.57 41.86 49.09 47.54 74.00 4824.000 7.12 34.00 42.16 48.95 47.91 74.00 6855.063 8.47 35.82 41.80 48.40 50.89 74.00 7236.000 8.77 36.09 41.48 48.57 51.95 74.00	1672.779 3.41 26.56 40.05 51.91 41.83 74.00 -32.17 4482.150 6.74 33.57 41.86 49.09 47.54 74.00 -26.46 4824.000 7.12 34.00 42.16 48.95 47.91 74.00 -26.09



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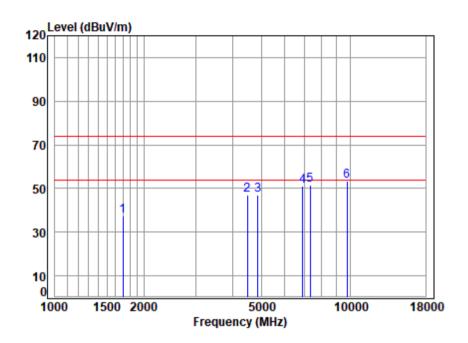
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR Mode : 2437 TX RSE Note : 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	3.43	26.68	40.06	47.26	37.31	74.00	-36.69	peak
2	4482.150	6.74	33.57	41.86	48.50	46.95	74.00	-27.05	peak
3	4874.000	7.17	34.05	42.20	48.07	47.09	74.00	-26.91	peak
4	6914.763	8.50	35.85	41.76	48.60	51.19	74.00	-22.81	peak
5	7311.000	8.84	36.15	41.41	48.13	51.71	74.00	-22.29	peak
6	9748.000	10.76	37.75	37.52	42.29	53.28	74.00	-20.72	peak



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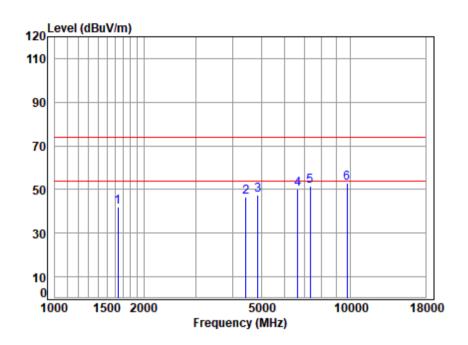
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR

Mode : 2437 TX RSE Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq			Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.543	3.38	26.40	40.03	52.04	41.79	74.00	-32.21	peak
2	4430.628	6.70	33.48	41.81	48.24	46.61	74.00	-27.39	peak
3	4874.000	7.17	34.05	42.20	48.44	47.46	74.00	-26.54	peak
4	6640.542	8.36	35.69	41.94	48.26	50.37	74.00	-23.63	peak
5	7311.000	8.84	36.15	41.41	47.89	51.47	74.00	-22.53	peak
6	9748.000	10.76	37.75	37.52	41.97	52.96	74.00	-21.04	peak



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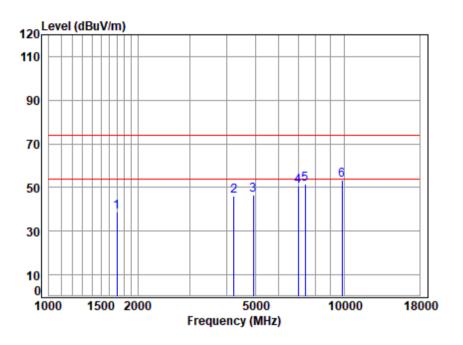
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR Mode : 2462 TX RSE Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	3.43	26.68	40.06	48.67	38.72	74.00	-35.28	peak
2	4230.396	6.51	33.13	41.63	48.27	46.28	74.00	-27.72	peak
3	4924.000	7.22	34.11	42.24	47.27	46.36	74.00	-27.64	peak
4	6974.982	8.53	35.89	41.72	47.80	50.50	74.00	-23.50	peak
5	7386.000	8.91	36.21	41.34	47.65	51.43	74.00	-22.57	peak
6	9848.000	10.73	37.81	37.35	42.35	53.54	74.00	-20.46	peak



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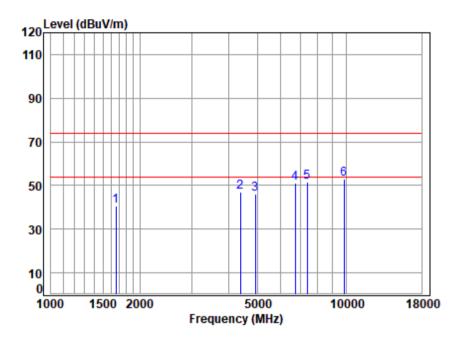
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02030CR/02031CR

Mode : 2462 TX RSE Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	3.40	26.52	40.04	50.66	40.54	74.00	-33.46	peak
2	4379.699	6.65	33.39	41.77	48.80	47.07	74.00	-26.93	peak
3	4924.000	7.22	34.11	42.24	47.08	46.17	74.00	-27.83	peak
4	6717.762	8.40	35.73	41.89	48.88	51.12	74.00	-22.88	peak
5	7386.000	8.91	36.21	41.34	47.88	51.66	74.00	-22.34	peak
6	9848.000	10.73	37.81	37.35	41.94	53.13	74.00	-20.87	peak



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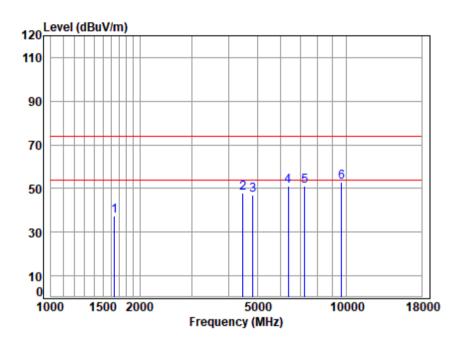
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 02030CR/02031CR Mode : 2412 TX RSE

Mode : 2412 TX RSE Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	3.38	26.44	40.03	47.78	37.57	74.00	-36.43	peak
2	4469.214	6.73	33.55	41.85	49.58	48.01	74.00	-25.99	peak
3	4824.000	7.12	34.00	42.16	48.12	47.08	74.00	-26.92	peak
4	6358.789	8.27	35.46	42.14	49.53	51.12	74.00	-22.88	peak
5	7236.000	8.77	36.09	41.48	47.66	51.04	74.00	-22.96	peak
6	9648.000	10.79	37.69	37.69	42.23	53.02	74.00	-20.98	peak



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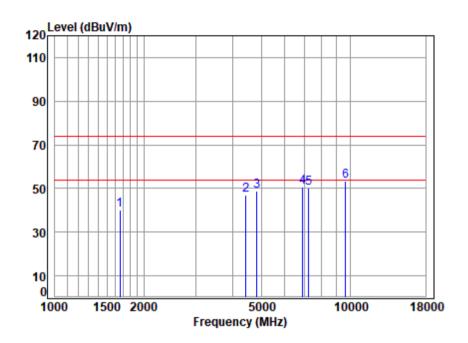
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR

Mode : 2412 TX RSE Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	3.40	26.50	40.04	50.16	40.02	74.00	-33.98	peak
2	4443.453	6.71	33.50	41.82	48.51	46.90	74.00	-27.10	peak
3	4824.000	7.12	34.00	42.16	49.92	48.88	74.00	-25.12	peak
4	6894.806	8.49	35.84	41.77	48.22	50.78	74.00	-23.22	peak
5	7236.000	8.77	36.09	41.48	46.98	50.36	74.00	-23.64	peak
6	9648.000	10.79	37.69	37.69	42.58	53.37	74.00	-20.63	peak



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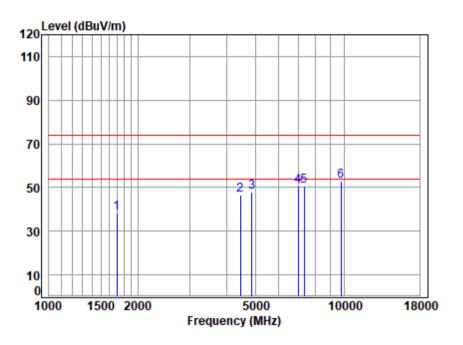
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Note

Condition: 3m HORIZONTAL
Job No : 02030CR/02031CR
Mode : 2437 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	3.43	26.68	40.06	48.20	38.25	74.00	-35.75	peak
2	4456.315	6.72	33.53	41.84	48.08	46.49	74.00	-27.51	peak
3	4874.000	7.17	34.05	42.20	48.88	47.90	74.00	-26.10	peak
4	6974.982	8.53	35.89	41.72	48.03	50.73	74.00	-23.27	peak
5	7311.000	8.84	36.15	41.41	47.23	50.81	74.00	-23.19	peak
6	9748.000	10.76	37.75	37.52	41.74	52.73	74.00	-21.27	peak



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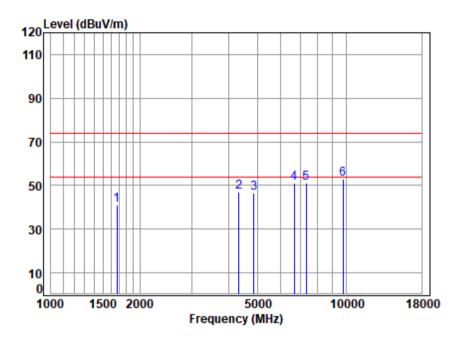
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR

Mode : 2437 TX RSE Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	3.41	26.56	40.05	51.04	40.96	74.00	-33.04	peak
2	4341.886	6.61	33.33	41.73	48.73	46.94	74.00	-27.06	peak
3	4874.000	7.17	34.05	42.20	47.55	46.57	74.00	-27.43	peak
4	6679.040	8.38	35.71	41.91	48.71	50.89	74.00	-23.11	peak
5	7311.000	8.84	36.15	41.41	47.43	51.01	74.00	-22.99	peak
6	9748.000	10.76	37.75	37.52	42.16	53.15	74.00	-20.85	peak



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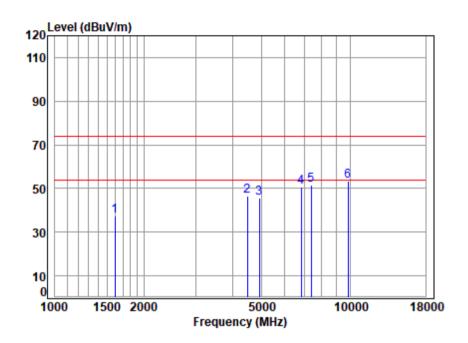
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR Mode : 2462 TX RSE Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.24	40.01	47.70	37.28	74.00	-36.72	peak
2	4482.150	6.74	33.57	41.86	48.28	46.73	74.00	-27.27	peak
3	4924.000	7.22	34.11	42.24	46.53	45.62	74.00	-28.38	peak
4	6815.551	8.45	35.79	41.82	48.12	50.54	74.00	-23.46	peak
5	7386.000	8.91	36.21	41.34	47.65	51.43	74.00	-22.57	peak
6	9848.000	10.73	37.81	37.35	42.41	53.60	74.00	-20.40	peak



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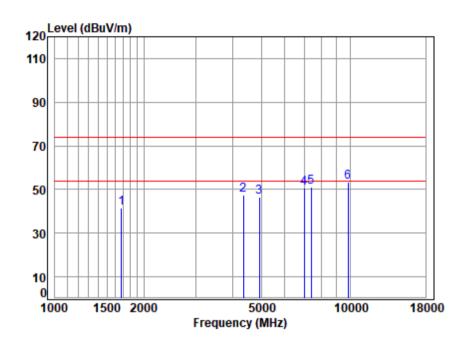
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02030CR/02031CR

Mode : 2462 TX RSE Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	3.41	26.58	40.05	51.36	41.30	74.00	-32.70	peak
2	4354.454	6.63	33.35	41.74	49.29	47.53	74.00	-26.47	peak
3	4924.000	7.22	34.11	42.24	47.63	46.72	74.00	-27.28	peak
4	6995.172	8.54	35.90	41.70	47.91	50.65	74.00	-23.35	peak
5	7386.000	8.91	36.21	41.34	47.25	51.03	74.00	-22.97	peak
6	9848.000	10.73	37.81	37.35	41.99	53.18	74.00	-20.82	peak



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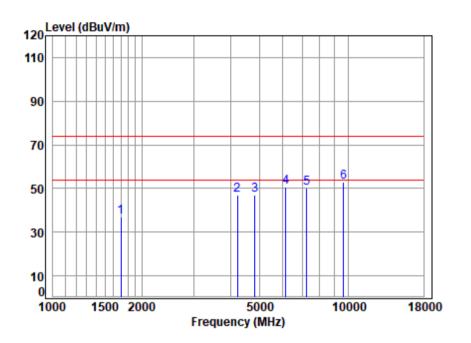
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 02030CR/02031CR
Mode : 2412 TX RSE

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	1702.042	3.43	26.68	40.06	47.06	37.11	74.00	-36.89	peak
2	4218.186	6.50	33.11	41.61	48.84	46.84	74.00	-27.16	peak
3	4824.000	7.12	34.00	42.16	48.03	46.99	74.00	-27.01	peak
4	6142.019	8.27	35.25	42.29	49.64	50.87	74.00	-23.13	peak
5	7236.000	8.77	36.09	41.48	46.87	50.25	74.00	-23.75	peak
6	9648.000	10.79	37.69	37.69	42.20	52.99	74.00	-21.01	peak



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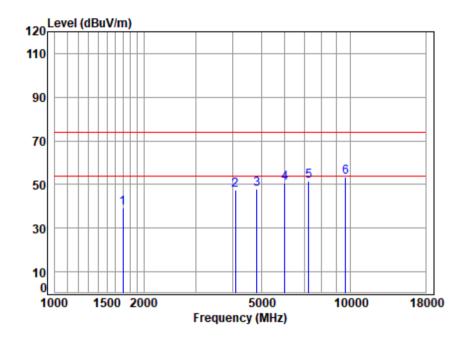
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR

Mode : 2412 TX RSE

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	1702.042	3.43	26.68	40.06	49.16	39.21	74.00	-34.79	peak
2	4086.182	6.37	32.86	41.49	49.74	47.48	74.00	-26.52	peak
3	4824.000	7.12	34.00	42.16	49.00	47.96	74.00	-26.04	peak
4	6001.626	8.26	35.10	42.40	49.71	50.67	74.00	-23.33	peak
5	7236.000	8.77	36.09	41.48	48.23	51.61	74.00	-22.39	peak
6	9648.000	10.79	37.69	37.69	42.74	53.53	74.00	-20.47	peak



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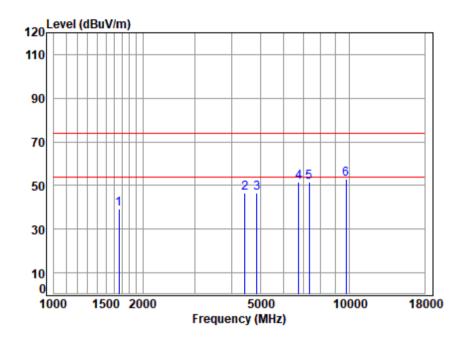
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 02030CR/02031CR Mode : 2437 TX RSE

Note : 2.4G WIFI 11N20

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	3.40	26.50	40.04	49.41	39.27	74.00	-34.73	peak
2	4430.628	6.70	33.48	41.81	48.30	46.67	74.00	-27.33	peak
3	4874.000	7.17	34.05	42.20	47.51	46.53	74.00	-27.47	peak
4	6737.207	8.41	35.75	41.87	49.05	51.34	74.00	-22.66	peak
5	7311.000	8.84	36.15	41.41	47.93	51.51	74.00	-22.49	peak
6	9748.000	10.76	37.75	37.52	42.11	53.10	74.00	-20.90	peak



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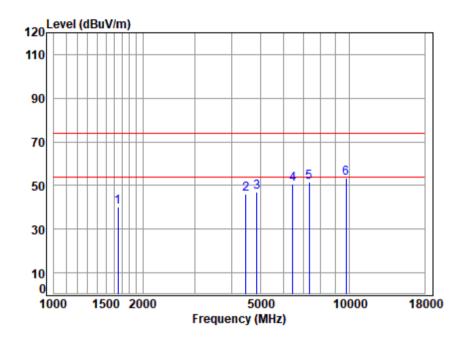
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Report No.: SZEM210200203004

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02030CR/02031CR

Mode : 2437 TX RSE

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	1648.778	3.39	26.46	40.03	50.35	40.17	74.00	-33.83	peak
2	4469.214	6.73	33.55	41.85	47.77	46.20	74.00	-27.80	peak
3	4874.000	7.17	34.05	42.20	47.78	46.80	74.00	-27.20	peak
4	6432.732	8.28	35.54	42.08	48.95	50.69	74.00	-23.31	peak
5	7311.000	8.84	36.15	41.41	47.84	51.42	74.00	-22.58	peak
6	9748.000	10.76	37.75	37.52	42.38	53.37	74.00	-20.63	peak



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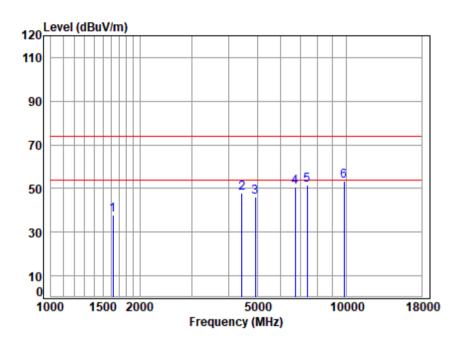
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02030CR/02031CR Mode : 2462 TX RSE

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	1625.121	3.37	26.36	40.02	48.32	38.03	74.00	-35.97	peak
2	4443.453	6.71	33.50	41.82	49.37	47.76	74.00	-26.24	peak
3	4924.000	7.22	34.11	42.24	47.08	46.17	74.00	-27.83	peak
4	6717.762	8.40	35.73	41.89	48.37	50.61	74.00	-23.39	peak
5	7386.000	8.91	36.21	41.34	47.89	51.67	74.00	-22.33	peak
6	9848.000	10.73	37.81	37.35	42.21	53.40	74.00	-20.60	peak



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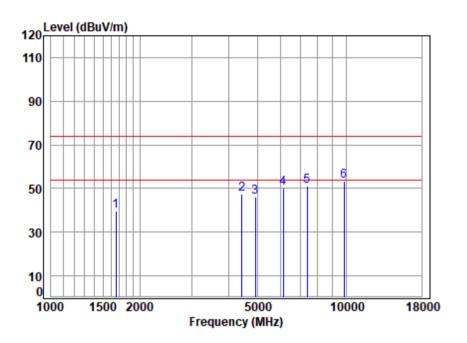
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02030CR/02031CR

Mode : 2462 TX RSE

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	1663.137	3.40	26.52	40.04	49.60	39.48	74.00	-34.52	peak
2	4430.628	6.70	33.48	41.81	48.88	47.25	74.00	-26.75	peak
3	4924.000	7.22	34.11	42.24	46.98	46.07	74.00	-27.93	peak
4	6124.292	8.27	35.23	42.31	49.14	50.33	74.00	-23.67	peak
5	7386.000	8.91	36.21	41.34	47.50	51.28	74.00	-22.72	peak
6	9848.000	10.73	37.81	37.35	42.12	53.31	74.00	-20.69	peak



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8 Emission Test Results

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

Test Requirement: 47 CFR Part 15, Subpart C 15.247 &15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of	Conducted limit(dBµV)							
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 30	MHz						

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.5 °C Humidity: 48.6 % RH Atmospheric Pressure: 1010 mbar

8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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). Only the data of worst case is recorded in the report.



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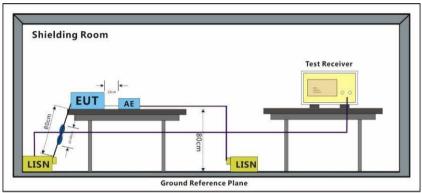
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8.1.3 Test Setup Diagram



8.1.4 Measurement Procedure and Data

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



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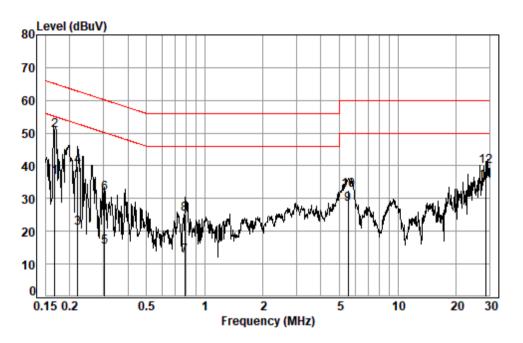
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Test Mode: 02; Line: Live line



: Shielding Room

Condition: Line Job No. : 02030CR

Test mode: 02

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1677	0.03	9.63	26.76	36.42	55.08	-18.66	Average
2	0.1677	0.03	9.63	41.17	50.83	65.08	-14.25	QP
3	0.2208	0.04	9.64	11.32	21.00	52.79	-31.79	Average
4	0.2208	0.04	9.64	30.24	39.92	62.79	-22.87	QP
5	0.3035	0.05	9.66	5.61	15.32	50.15	-34.83	Average
6	0.3035	0.05	9.66	21.99	31.70	60.15	-28.45	QP
7	0.7876	0.09	9.68	2.84	12.61	46.00	-33.39	Average
8	0.7876	0.09	9.68	15.34	25.11	56.00	-30.89	QP
9	5.5347	0.16	9.79	18.26	28.21	50.00	-21.79	Average
10	5.5347	0.16	9.79	22.56	32.51	60.00	-27.49	QP
11	28.6882	0.20	10.01	24.98	35.19	50.00	-14.81	Average
12	28.6882	0.20	10.01	29.57	39.78	60.00	-20.22	OP



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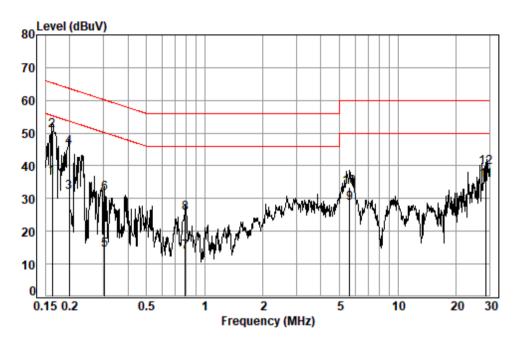
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Test Mode: 02; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02030CR

Test mode: 02

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1624	0.03	9.63	26.94	36.60	55.34	-18.74	Average
2	0.1624	0.03	9.63	41.13	50.79	65.34	-14.55	QP
3	0.1986	0.04	9.63	22.17	31.84	53.67	-21.83	Average
4	0.1986	0.04	9.63	35.82	45.49	63.67	-18.18	QP
5	0.3035	0.05	9.65	4.58	14.28	50.15	-35.87	Average
6	0.3035	0.05	9.65	21.82	31.52	60.15	-28.63	QP
7	0.7960	0.09	9.67	3.94	13.70	46.00	-32.30	Average
8	0.7960	0.09	9.67	15.89	25.65	56.00	-30.35	QP
9	5.6234	0.16	9.78	18.51	28.45	50.00	-21.55	Average
10	5.6234	0.16	9.78	23.54	33.48	60.00	-26.52	QP
11	28.6882	0.20	10.09	25.18	35.47	50.00	-14.53	Average
12	28.6882	0.20	10.09	29.23	39.52	60.00	-20.48	QP



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9 Test Setup Photo

Refer to Setup Photos

10 EUT Constructional Details (EUT Photos)

Refer to external and internal photos for SZEM2102002030CR



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11 Appendix for 15.247

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2412	SISO	1	0.304	2.325	13.08	8.83
802.11b	2437	SISO	1	0.300	2.291	13.09	8.83
	2462	SISO	1	0.303	2.308	13.13	8.82
802.11g	2412	SISO	1	0.044	0.451	9.76	10.11
	2437	SISO	1	0.043	0.450	9.56	10.20
	2462	SISO	1	0.043	0.434	9.91	10.04
802.11n(HT20)	2412	SISO	1	0.043	0.446	9.64	10.16
	2437	SISO	1	0.044	0.451	9.76	10.11
	2462	SISO	1	0.044	0.452	9.73	10.12



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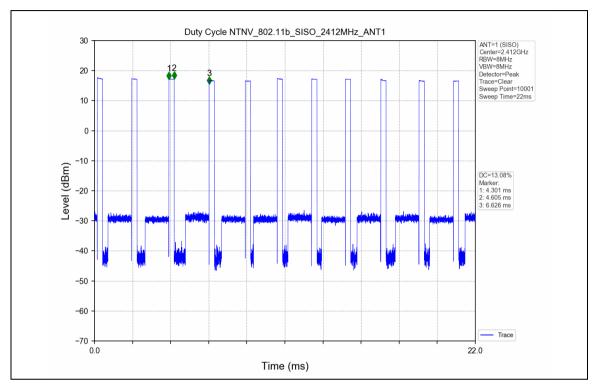
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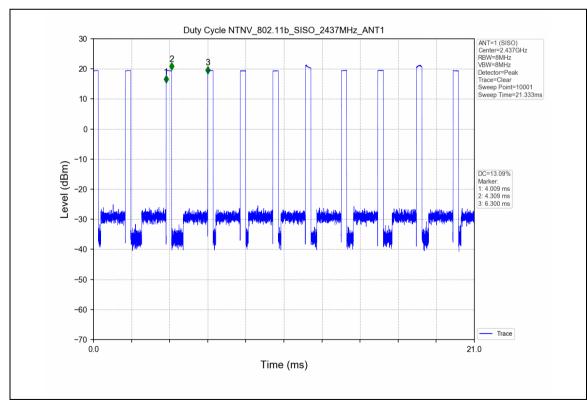


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1.2 Test Graph







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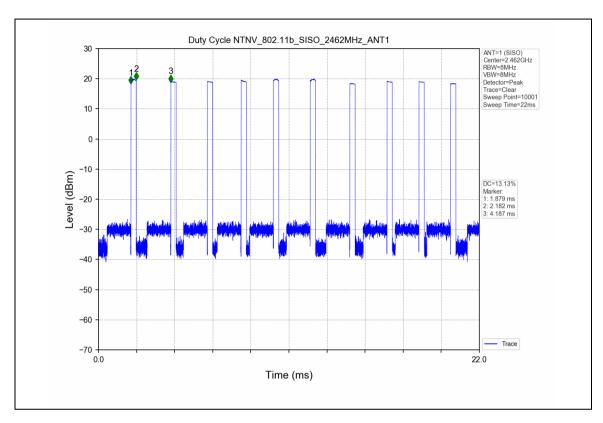
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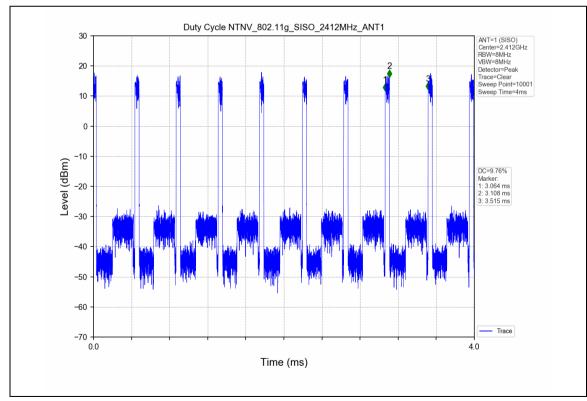
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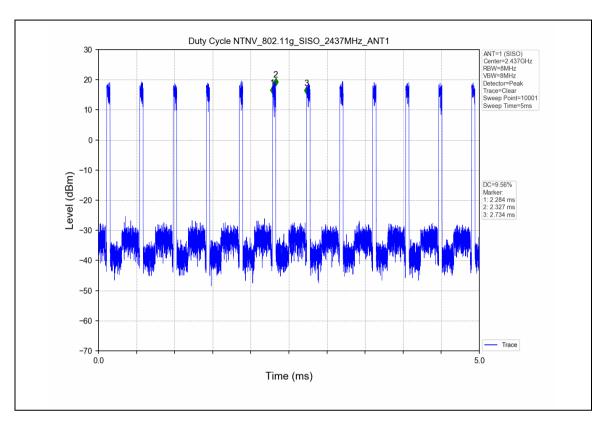
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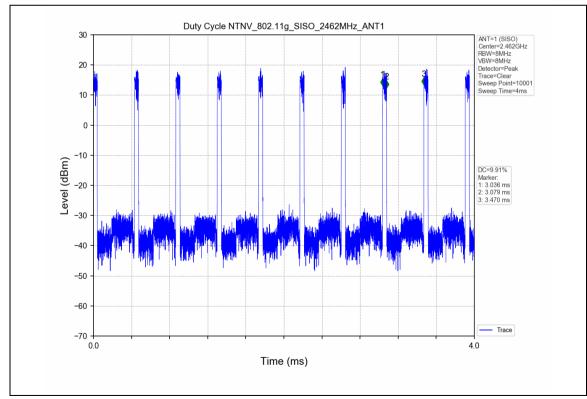
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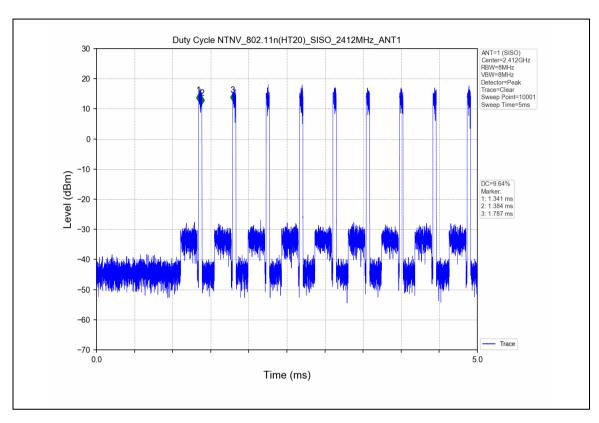
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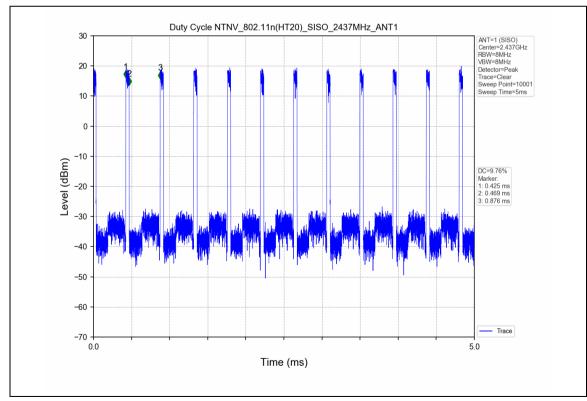
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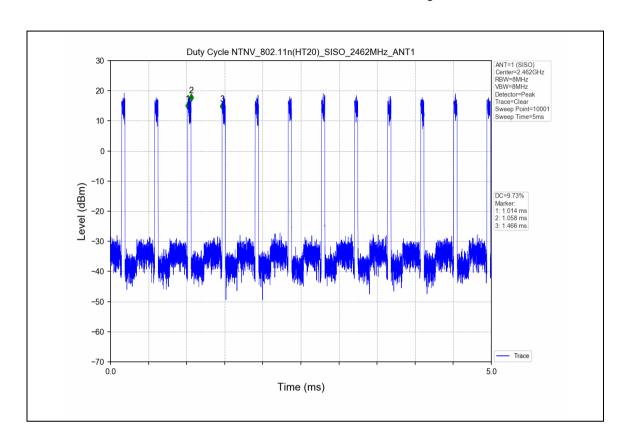
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bar	\/audiat	
i est iviode				Test Result (MHz)	Limits (MHz)	Verdict
802.11b	2412	SISO	1	9.085	≥0.5	PASS
	2437	SISO	1	9.120	≥0.5	PASS
	2462	SISO	1	9.082	≥0.5	PASS
802.11g	2412	SISO	1	15.137	≥0.5	PASS
	2437	SISO	1	15.135	≥0.5	PASS
	2462	SISO	1	15.126	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	16.170	≥0.5	PASS
	2437	SISO	1	16.150	≥0.5	PASS
	2462	SISO	1	16.124	≥0.5	PASS

			ı				
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth			
				Test Res	ult (MHz)		
802.11b	2412	SISO	1	14.033	Only for Report Use		
	2437	SISO	1	14.158	Only for Report Use		
	2462	SISO	1	14.093	Only for Report Use		
802.11g	2412	SISO	1	16.584	Only for Report Use		
	2437	SISO	1	17.330	Only for Report Use		
	2462	SISO	1	16.657	Only for Report Use		
802.11n(HT20)	2412	SISO	1	17.327	Only for Report Use		
	2437	SISO	1	18.847	Only for Report Use		
	2462	SISO	1	17.467	Only for Report Use		



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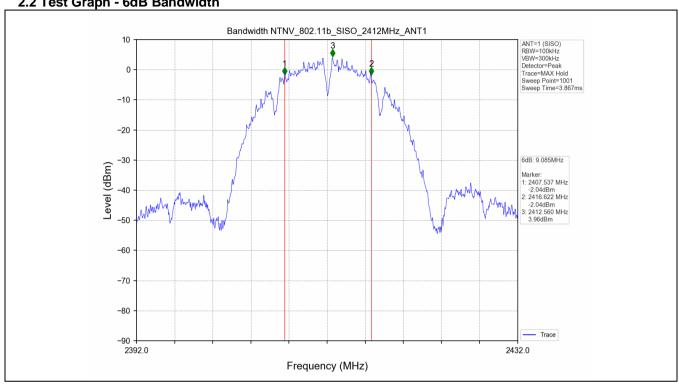
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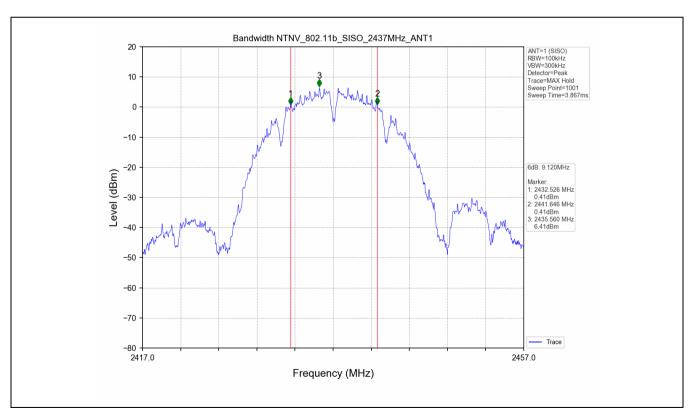


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2.2 Test Graph - 6dB Bandwidth







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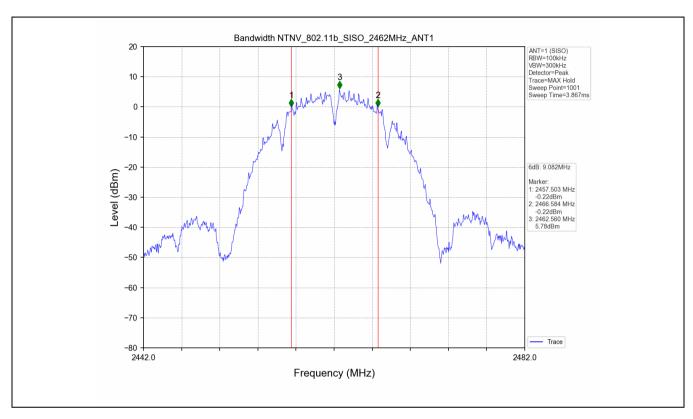
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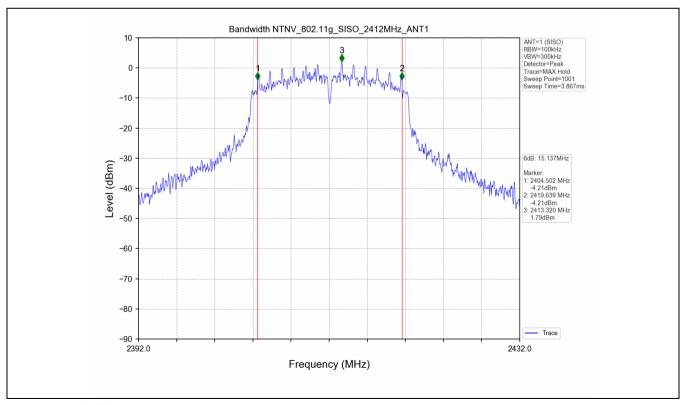
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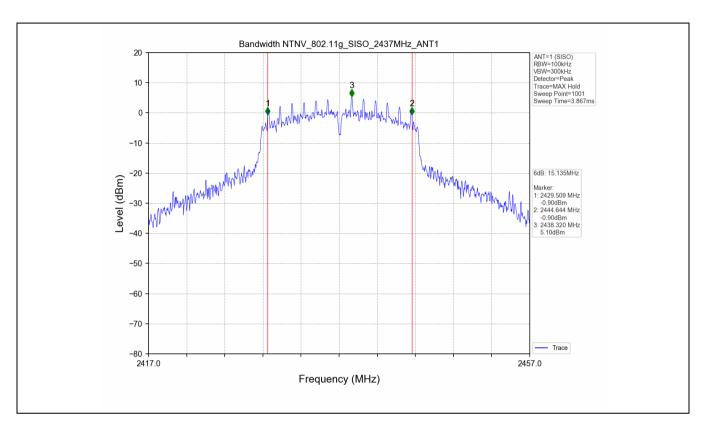
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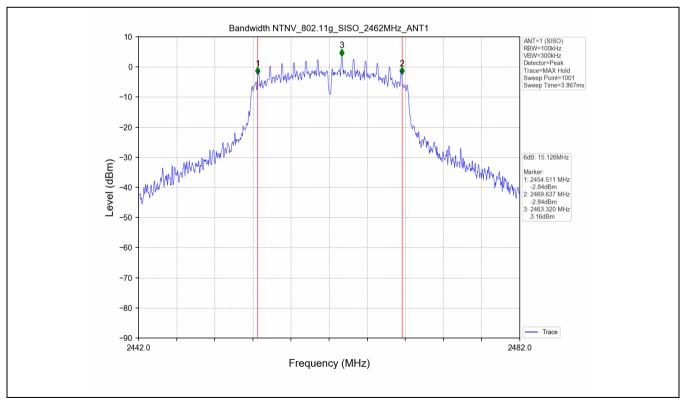
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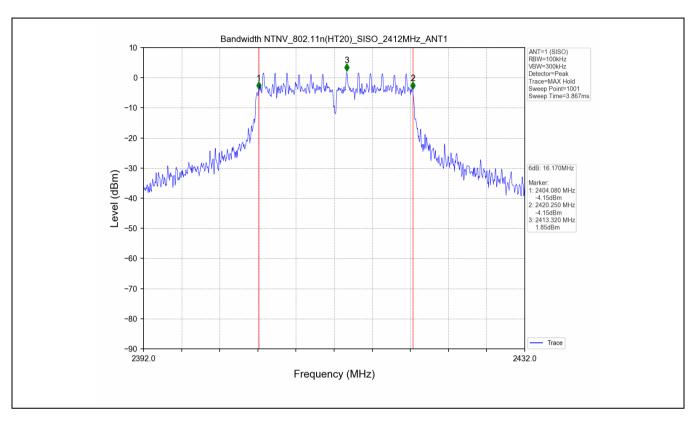
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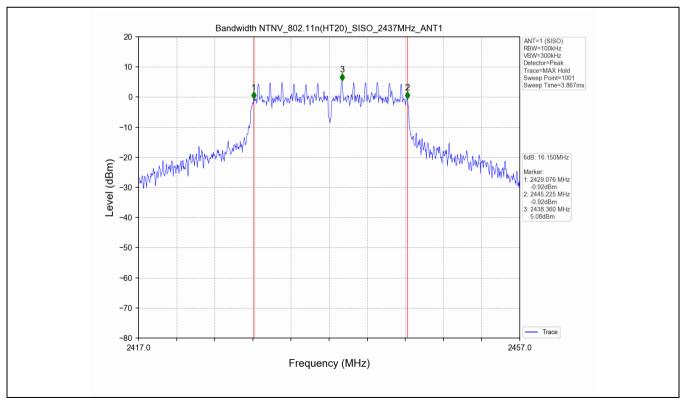
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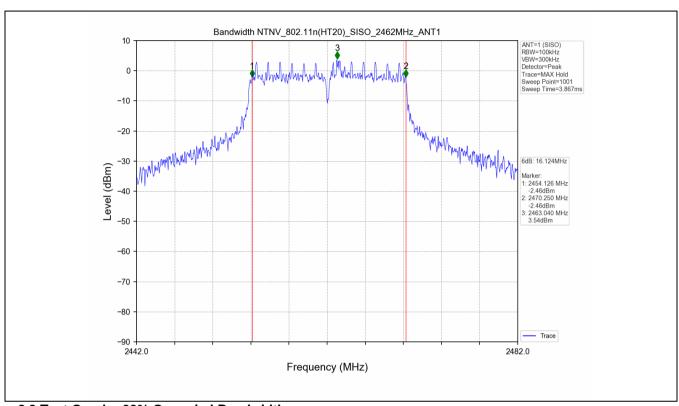
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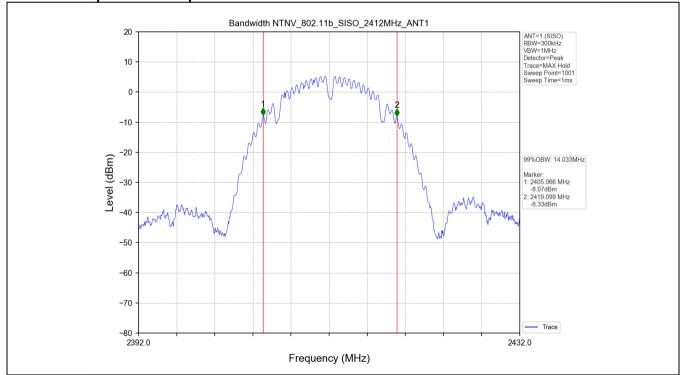


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2.3 Test Graph - 99% Occupied Bandwidth





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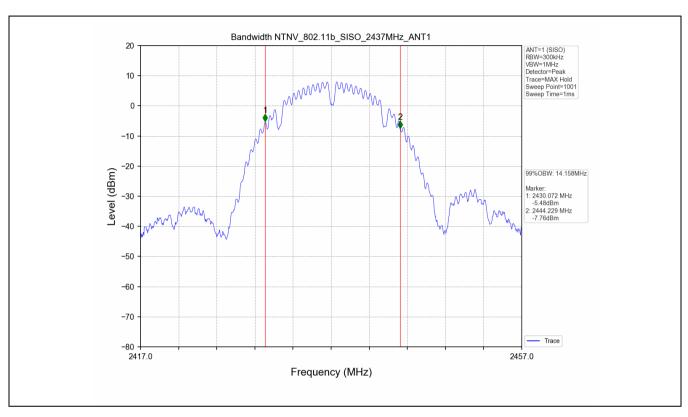
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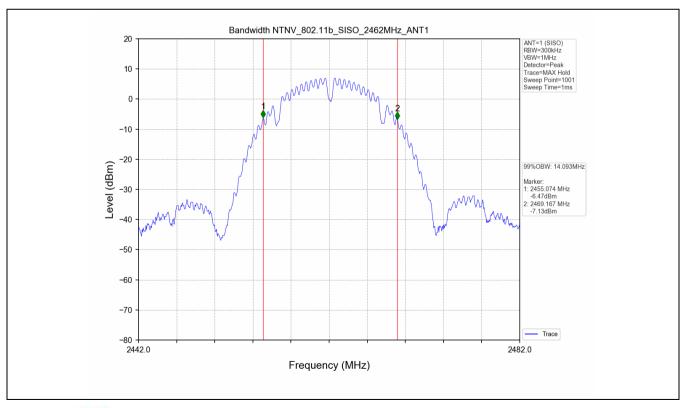


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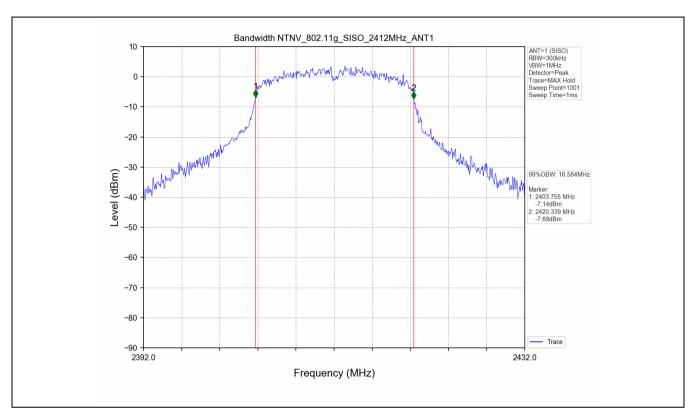
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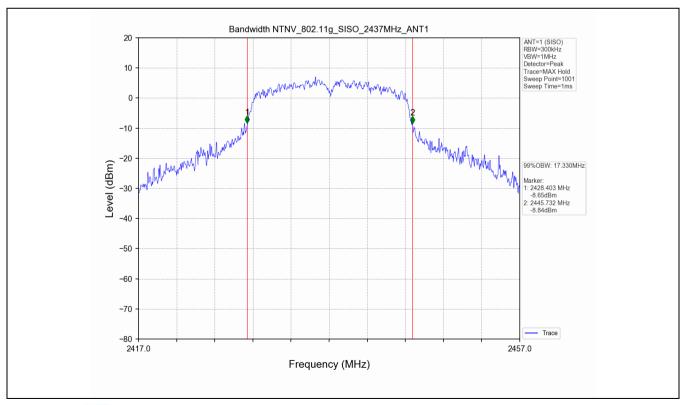
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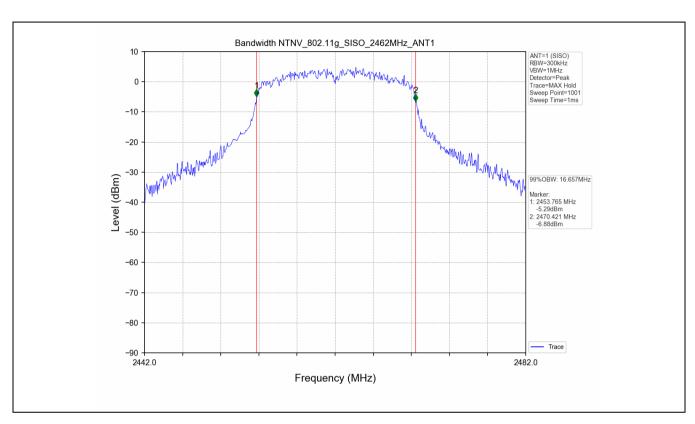
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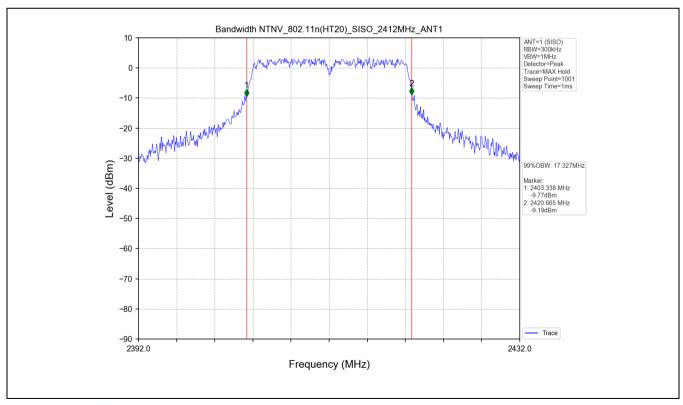
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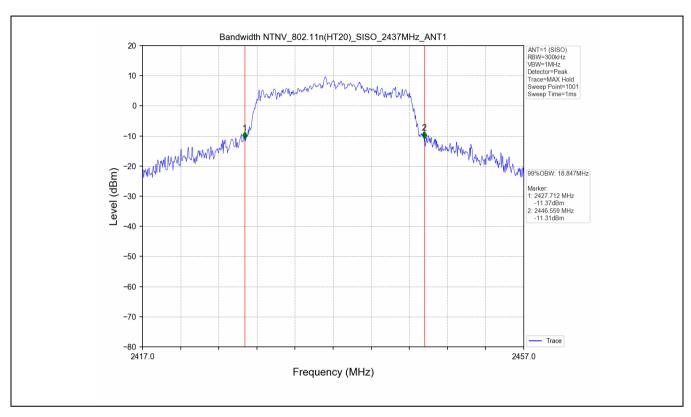
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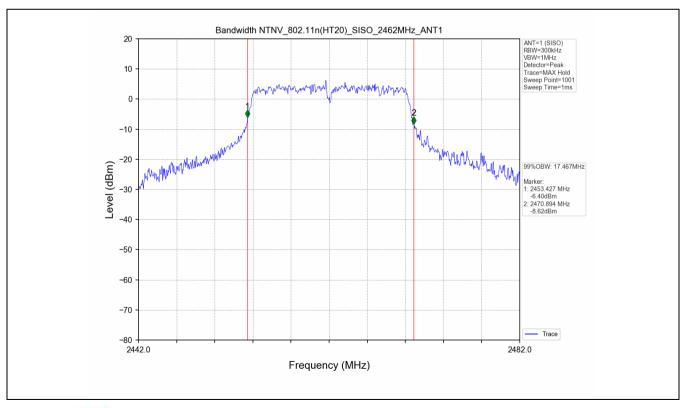
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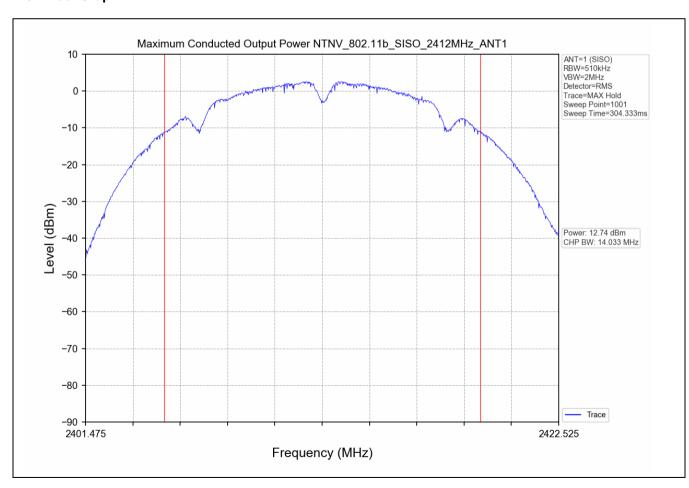
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Average Output Power (dBm)	Limits (dBm)	Verdict	
	(**************************************		Ant 1			
802.11b	2412	SISO	12.74	30	PASS	
	2437	SISO	15.56	30	PASS	
	2462	SISO	14.69	30	PASS	
802.11g	2412	SISO	11.30	30	PASS	
	2437	SISO	14.75	30	PASS	
	2462	SISO	12.89	30	PASS	
802.11n(HT20)	2412	SISO	13.03	30	PASS	
	2437	SISO	15.34	30	PASS	
	2462	SISO	15.67	30	PASS	

3.2 Test Graph





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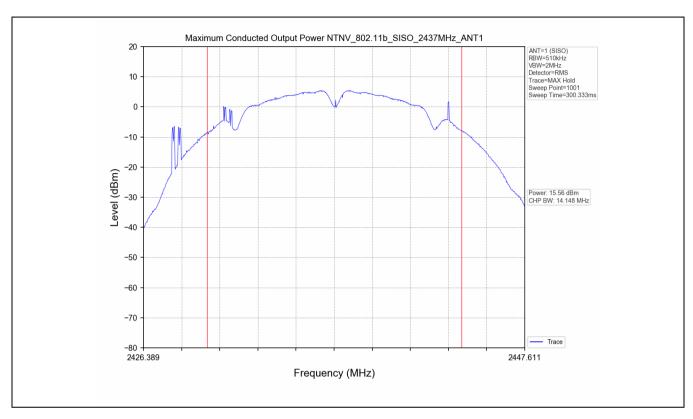
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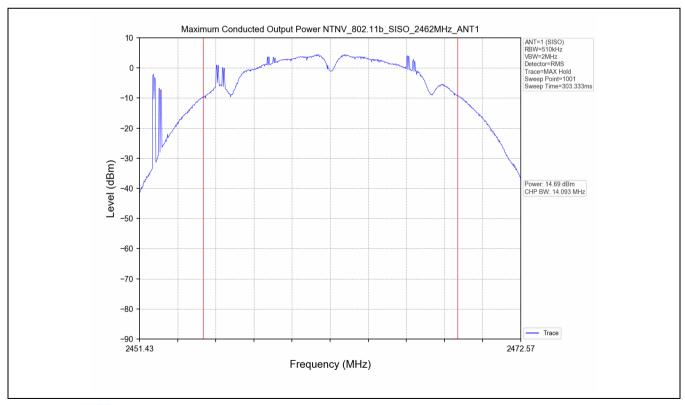
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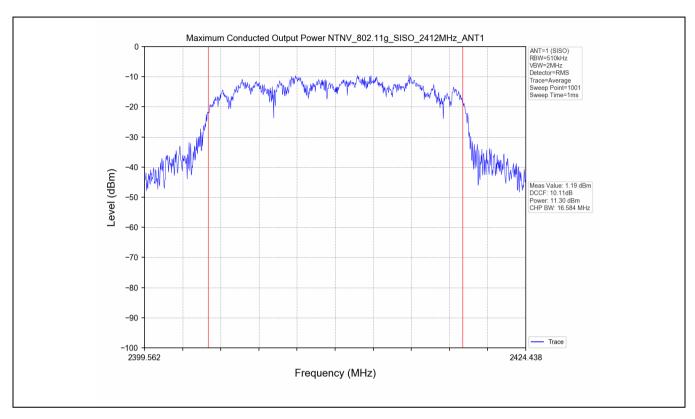
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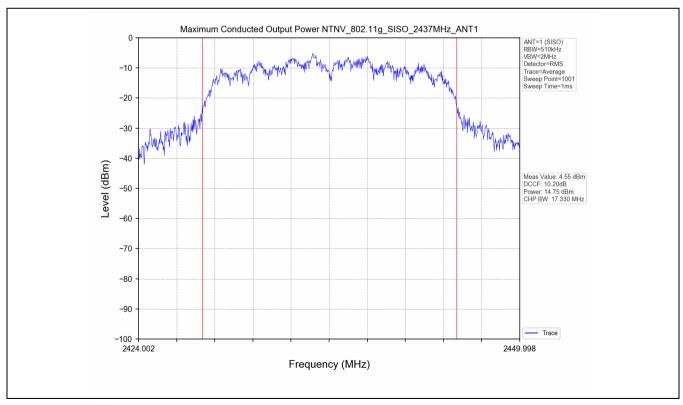
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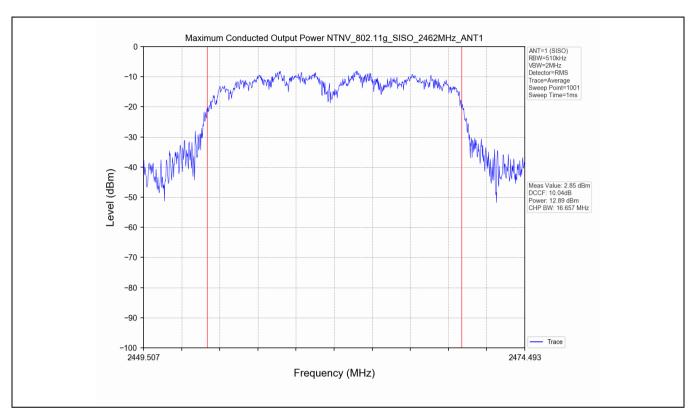
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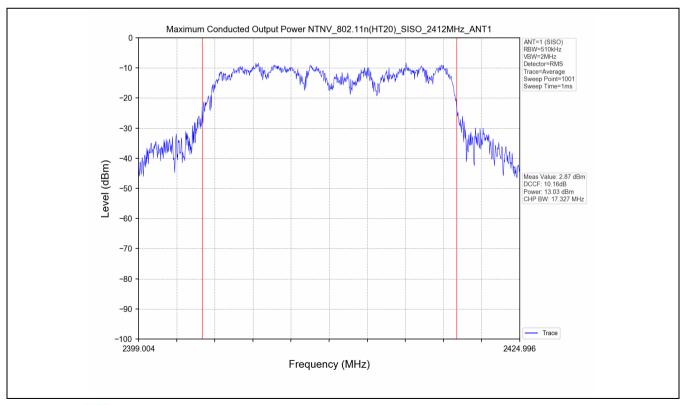
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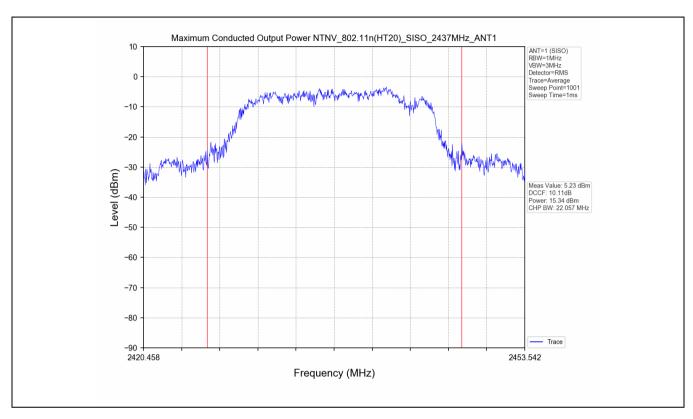
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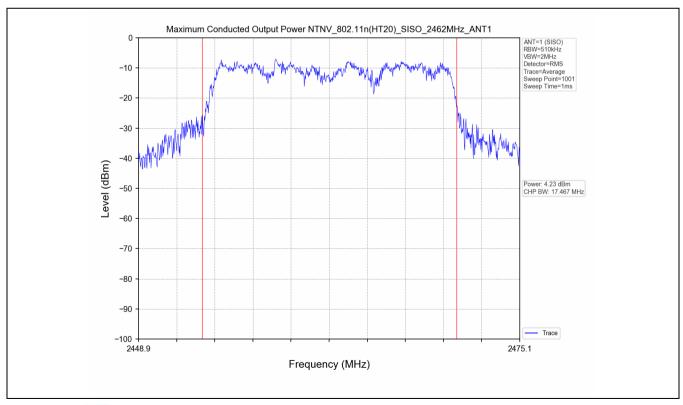
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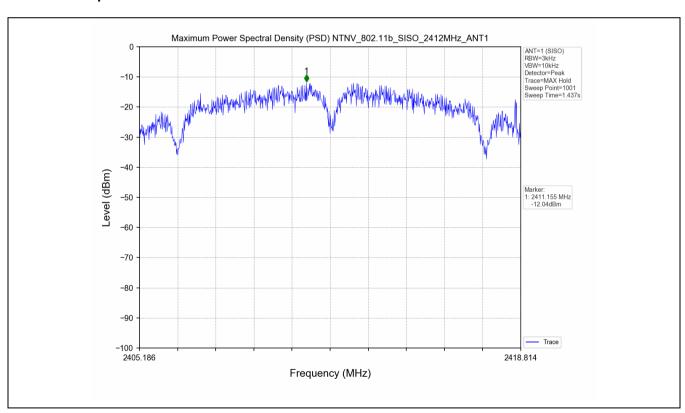
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2412	SISO	-12.04	≤8	PASS
802.11b	2437	SISO	-9.32	≤8	PASS
	2462	SISO	-10.47	≤8	PASS
802.11g	2412	SISO	-17.96	≤8	PASS
	2437	SISO	-14.46	≤8	PASS
	2462	SISO	-11.65	≤8	PASS
802.11n(HT20)	2412	SISO	-13.37	≤8	PASS
	2437	SISO	-12.37	≤8	PASS
	2462	SISO	-9.87	≤8	PASS

4.2 Test Graph





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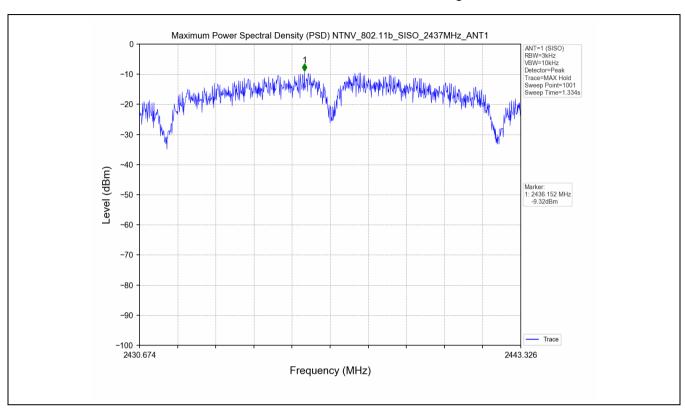
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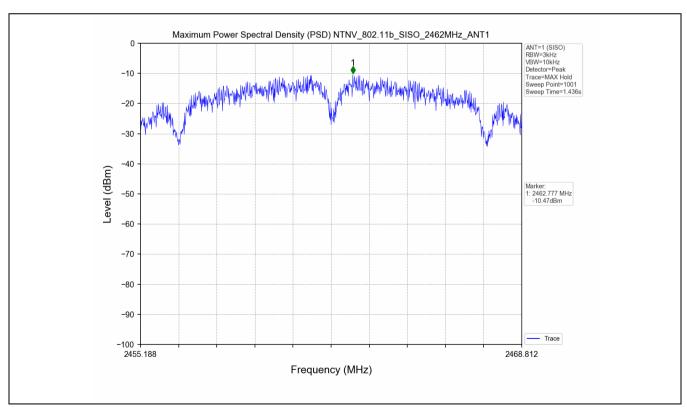
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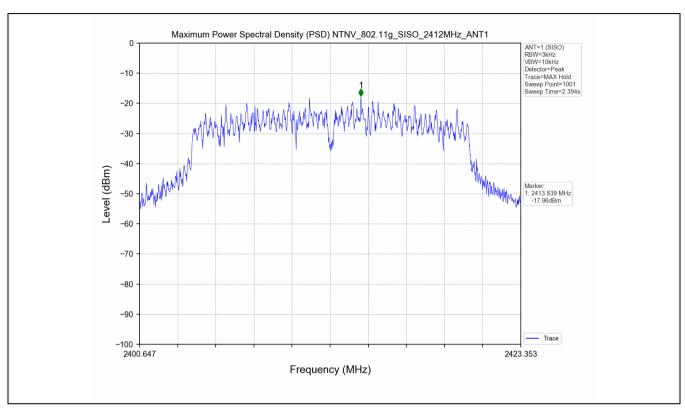
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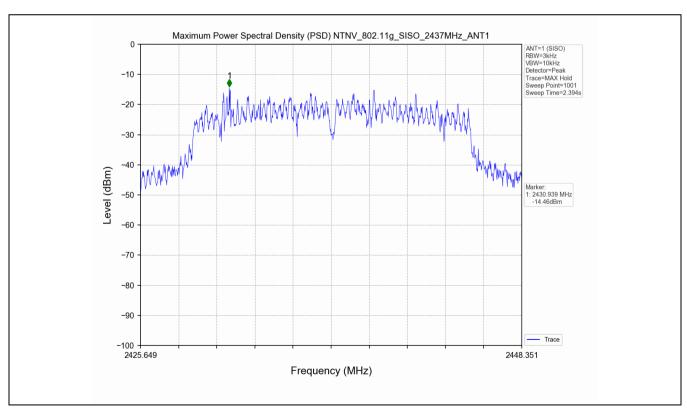
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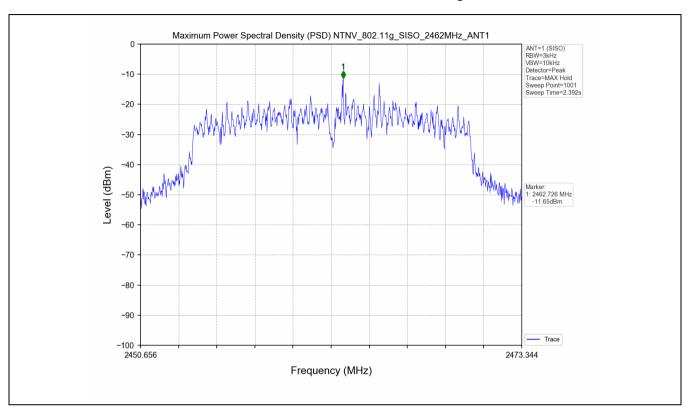
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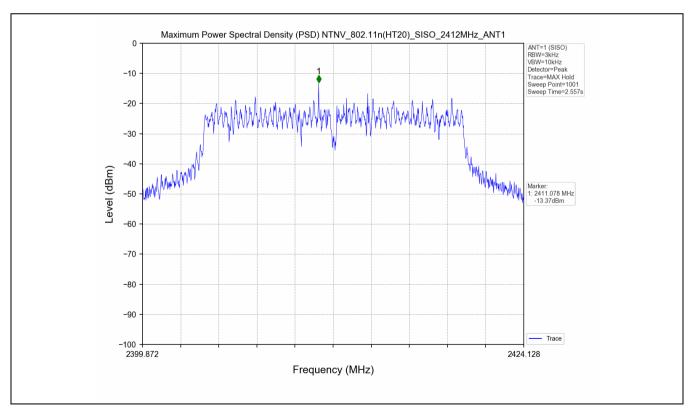
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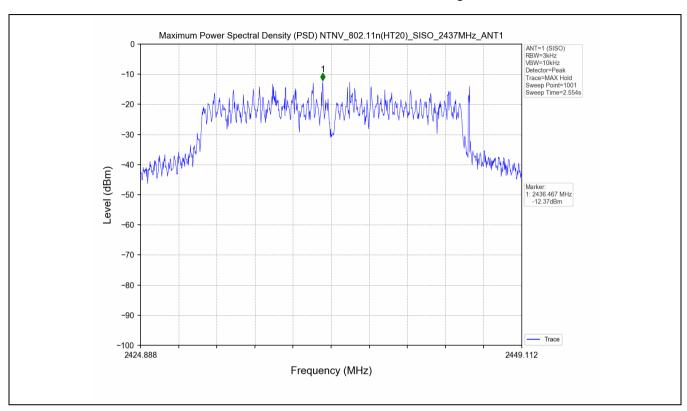
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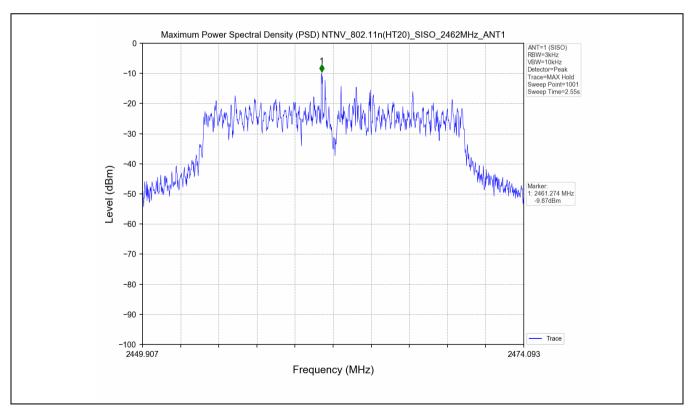
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2412	SISO	1	Refer to test graph	-23.23	PASS
802.11b	2437	SISO	1	Refer to test graph	-23.23	PASS
	2462	SISO	1	Refer to test graph	-23.23	PASS
802.11g	2412	SISO	1	Refer to test graph	-24.85	PASS
	2437	SISO	1	Refer to test graph	-24.85	PASS
	2462	SISO	1	Refer to test graph	-24.85	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-24.58	PASS
	2437	SISO	1	Refer to test graph	-24.58	PASS
	2462	SISO	1	Refer to test graph	-24.58	PASS



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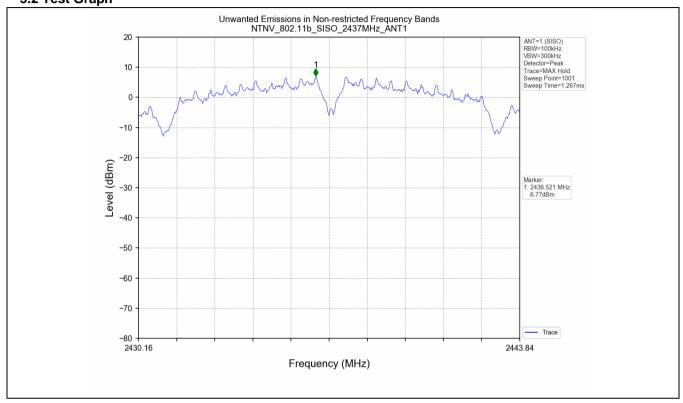
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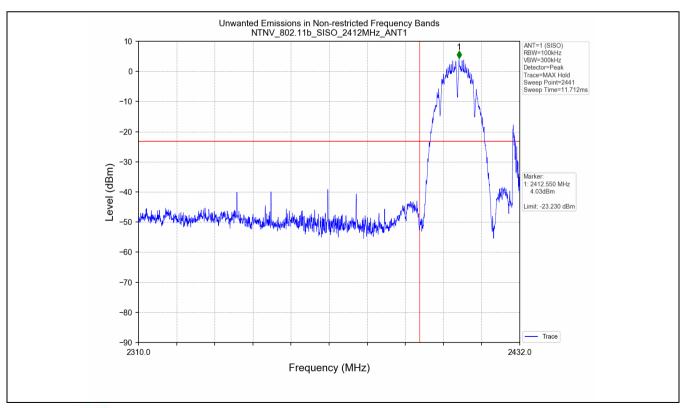


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5.2 Test Graph







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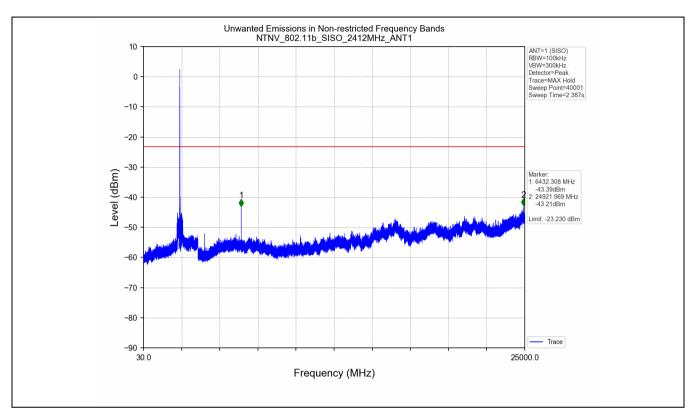
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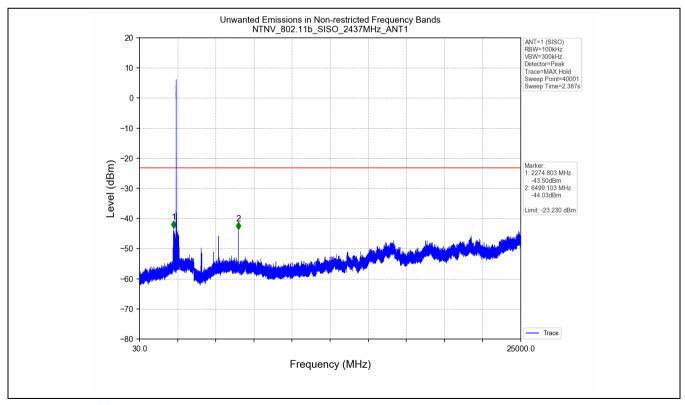
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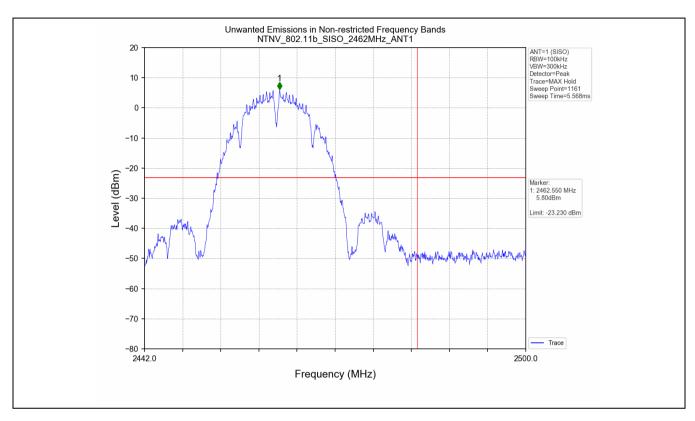
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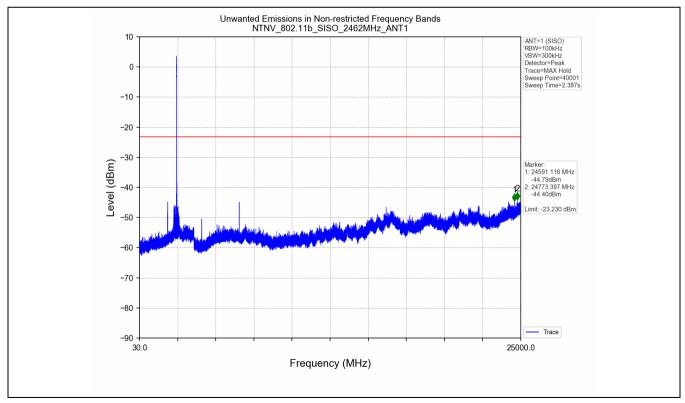
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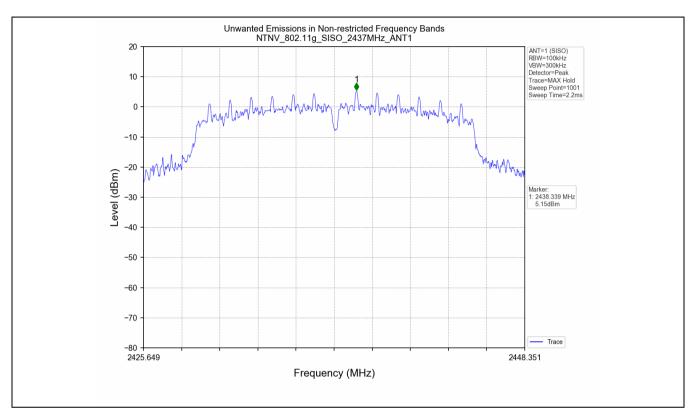
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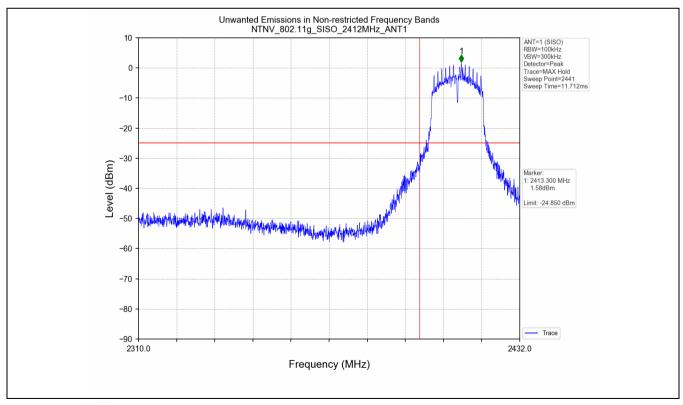
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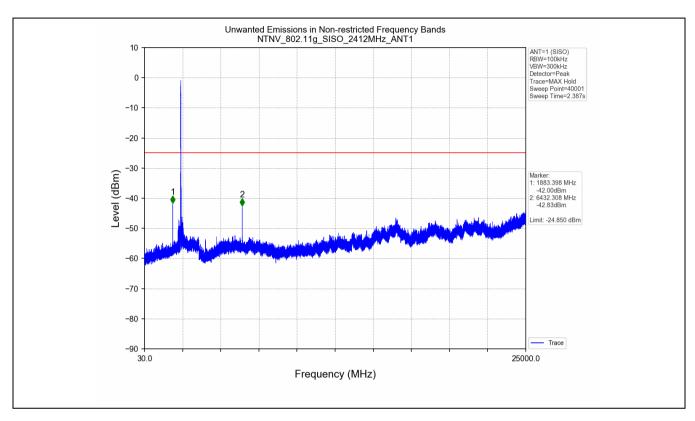
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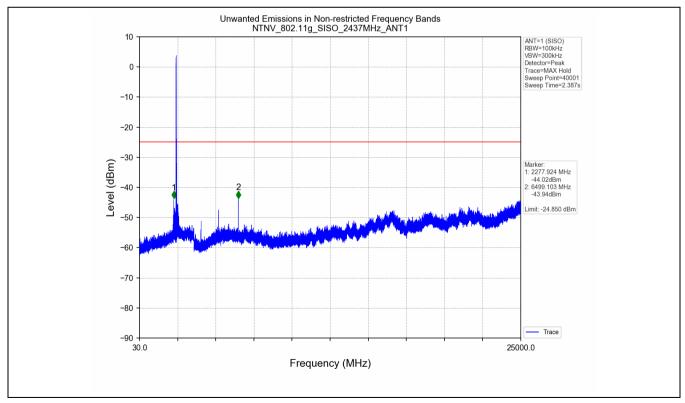
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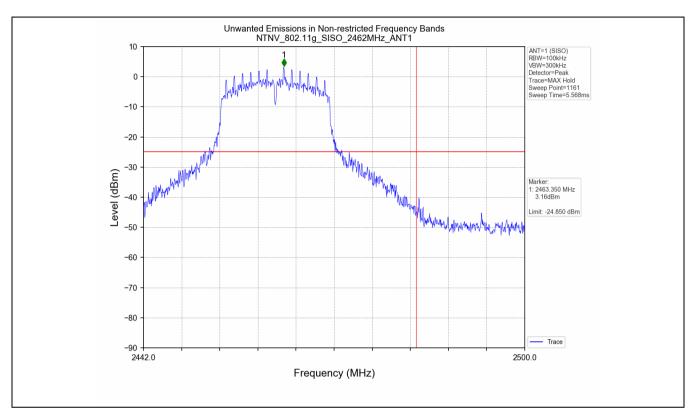
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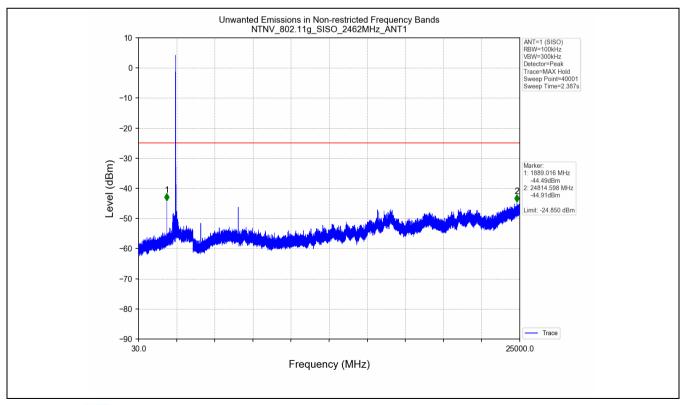
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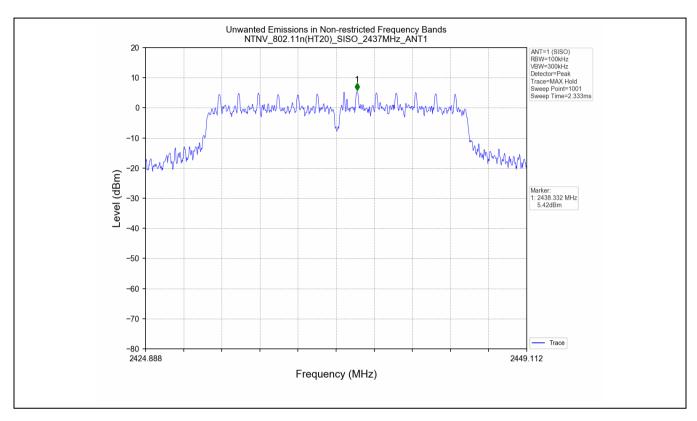
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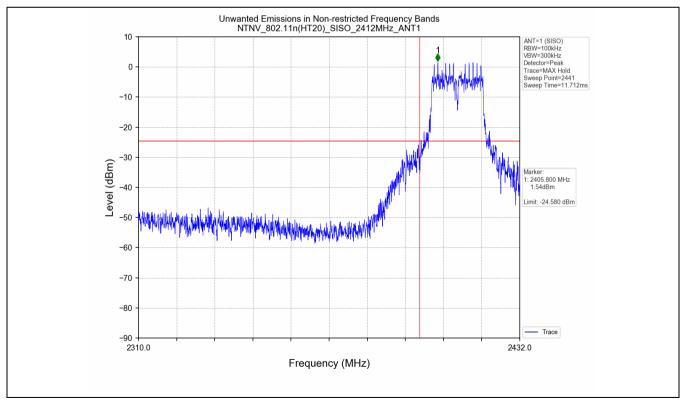
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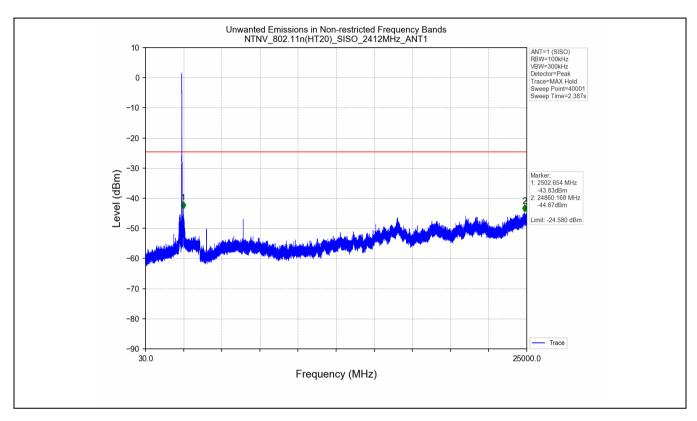
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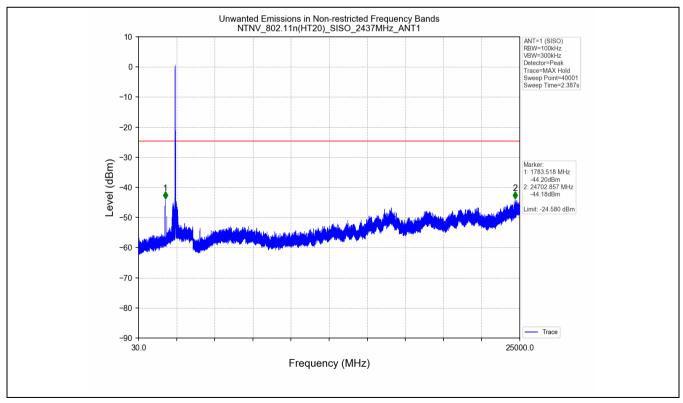
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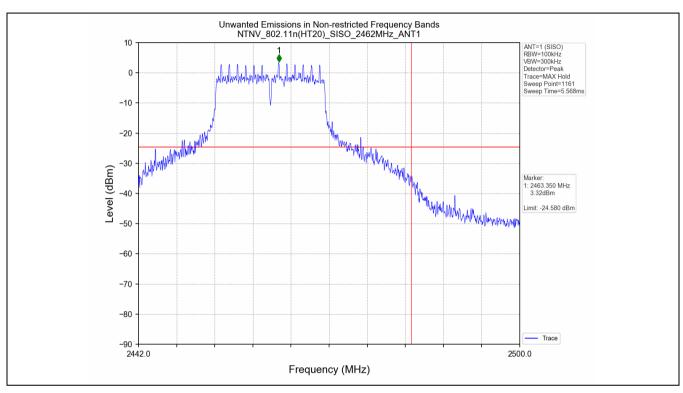
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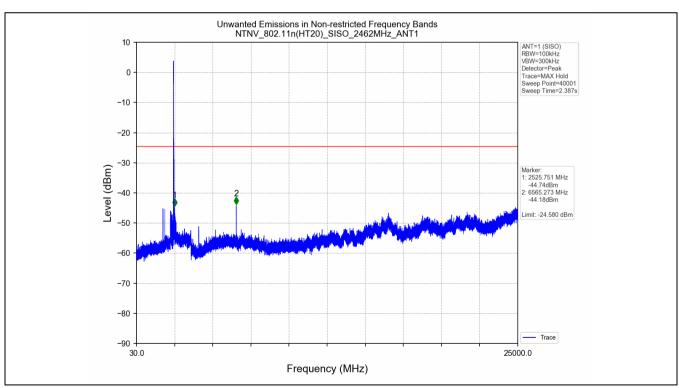
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