



## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220900037503

Page: 1 of 92

## TEST REPORT

**Application No.:** FYCR2209000375AT  
**Applicant:** DT Research, Inc.  
**Address of Applicant:** 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan  
**Manufacturer:** DT Research, Inc.  
**Address of Manufacturer:** 2000 Concourse Drive, San Jose, CA 95131, USA  
**Factory:** DT Research, Inc. Taiwan Branch  
**Address of Factory:** 6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan  
**Equipment Under Test (EUT):**  
**EUT Name:** Battery Powered Computer  
**Model No.:** 581T, 581XXXXX (X is -, any alphanumeric or blank) ♣  
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade Mark:**



**FCC ID:** YE3600-AX210NG  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2022-09-15  
**Date of Test:** 2022-09-18 to 2022-10-23  
**Date of Issue:** 2022-11-09

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

Winkey Wang  
EMC Technical Manager



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

Report No.: FYCR220900037503

Page: 2 of 92

<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2022-11-09		Original

<b>Authorized for issue by:</b>			
		Tree Zhan	
		_____ Tree Zhan/Project Engineer	
		Winkey Wang	
		_____ Winkey Wang/Reviewer	

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## 2 Test Summary

<b>Radio Spectrum Technical Requirement</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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

<b>Radio Spectrum Matter Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

**Remark:**

Model No.: 581T, 581XXXX (X is -, any alphanumeric or blank)

Only the model 581T was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No..

This report is prepared for FCC class II permissive change.

The modular approval by TCB, FCC ID:YE3600-AX210NG, Granted on 05/06/2022.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID: PD9AX210NG was performed with an antenna of higher gain, and the antenna was connected to the module in an open environment. The current host platform under application is used a new antenna of the same type and lower gain than the original certified module. Also, the band above 6GHz(5925-7125MHz) is blocked by the software for the module, and it is installed inside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model 581T and shown the data in this report.

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### 3 Contents

	Page
1 COVER PAGE .....	1
2 TEST SUMMARY .....	3
3 CONTENTS .....	4
4 GENERAL INFORMATION .....	6
4.1 DETAILS OF E.U.T .....	6
4.2 DESCRIPTION OF SUPPORT UNITS .....	7
4.3 MEASUREMENT UNCERTAINTY .....	7
4.4 TEST LOCATION .....	8
4.5 TEST FACILITY .....	8
4.6 DEVIATION FROM STANDARDS .....	8
4.7 ABNORMALITIES FROM STANDARD CONDITIONS .....	8
5 EQUIPMENT LIST .....	9
6 RADIO SPECTRUM TECHNICAL REQUIREMENT .....	11
6.1 ANTENNA REQUIREMENT .....	11
6.1.1 Test Requirement: .....	11
6.1.2 Conclusion .....	11
7 RADIO SPECTRUM MATTER TEST RESULTS .....	12
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHz-30MHz) .....	12
7.1.1 E.U.T. Operation .....	12
7.1.2 Test Mode Description .....	12
7.1.3 Test Setup Diagram .....	12
7.1.4 Measurement Procedure and Data .....	13
7.2 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS .....	16
7.2.1 E.U.T. Operation .....	16
7.2.2 Test Mode Description .....	16
7.2.3 Test Setup Diagram .....	17
7.2.4 Measurement Procedure and Data .....	18
7.3 RADIATED SPURIOUS EMISSIONS BELOW 1GHz .....	67
7.3.1 E.U.T. Operation .....	67
7.3.2 Test Mode Description .....	67
7.3.3 Test Setup Diagram .....	68
7.3.4 Measurement Procedure and Data .....	68
7.4 RADIATED SPURIOUS EMISSIONS ABOVE 1GHz .....	71
7.4.1 E.U.T. Operation .....	71
7.4.2 Test Mode Description .....	71
7.4.3 Test Setup Diagram .....	72
7.4.4 Measurement Procedure and Data .....	73
8 TEST SETUP PHOTO .....	92



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**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 5 of 92

<b>9 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) .....</b>	<b>92</b>
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## 4 General Information

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

Power supply:	AC Adapter Model: EM11011M-190 Input: AC 100-240V, 2.0~1.0A, 50/60Hz Output: DC 19V, 6.31A, 120W Li-ion Rechargeable Battery Pack Model: ACC-006-591 3INR19/66-3 DC:10.9V 8250mAh/90Wh Rated Capacity: 8250mAh Charge Current: 3.0A Max Nominal Voltage: 10.9V Charge Voltage: 12.3V Max
Test Voltage:	AC 120V, 60Hz Note: Both nominal AC 120V, 60Hz and AC 240 V, 60Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz);
Cable(s):	DC cable:114cm with a ferrite core
Operation Frequency:	802.11b/g/n/ax(HT20): 2412MHz to 2472MHz 802.11n/ax(HT40): 2422MHz to 2462MHz
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11ax: OFDMA(QPSK, BPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Numbers:	802.11b/g, 802.11n/ax HT20: 13 Channels 802.11n/ax HT40: 9 Channels
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna1: 2.8dBi, Antenna2: 2.7dBi Note: MIMO for antenna1 and antenna2.

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

Report No.: FYCR220900037503

Page: 7 of 92

<b>Channel list for 802.11b/g/n/ax(HT20)</b>							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz	13	2472MHz
2	2417MHz	6	2437MHz	10	2457MHz		
3	2422MHz	7	2442MHz	11	2462MHz		
4	2427MHz	8	2447MHz	12	2467MHz		

<b>Channel list for 802.11n/ax(HT40)</b>					
Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz
4	2427MHz	7	2442MHz	10	2457MHz
5	2432MHz	8	2447MHz	11	2462MHz

**4.2 Description of Support Units**

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

**4.3 Measurement Uncertainty**

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)

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

Report No.: FYCR220900037503

Page: 8 of 92

### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None

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

Report No.: FYCR220900037503

Page: 9 of 92

## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11
LISN	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2022/1/10	2023/1/9
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM033-02	2022/5/16	2023/5/15

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

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# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220900037503

Page: 10 of 92

## Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-08	2021/11/30	2023/11/29

## Radiated Spurious Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

## General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11

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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

##### 15.203 Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

##### 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 connector is a IPEX type that comply with Part15.203, the best case gain of the antenna1 is 2.8dBi, Antenna2: 2.7dBi.

Antenna location: Refer to internal photo.

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## 7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

Frequency of emission(MHz)	Conducted limit(dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

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

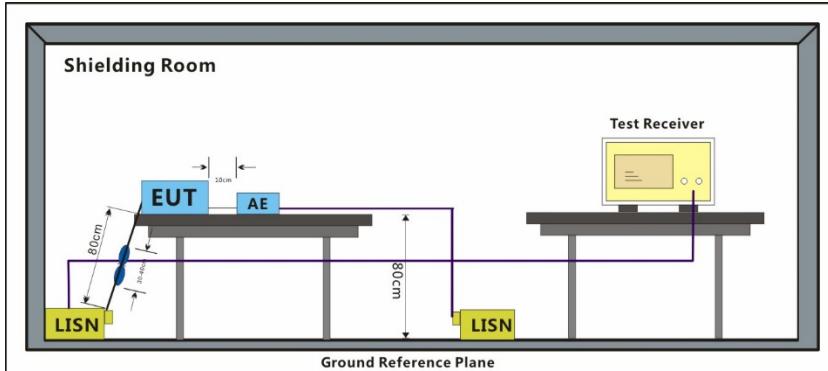
Operating Environment:

Temperature: 23.5 °C      Humidity: 52.8 % RH      Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.

#### 7.1.3 Test Setup Diagram



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**7.1.4 Measurement Procedure and Data**

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

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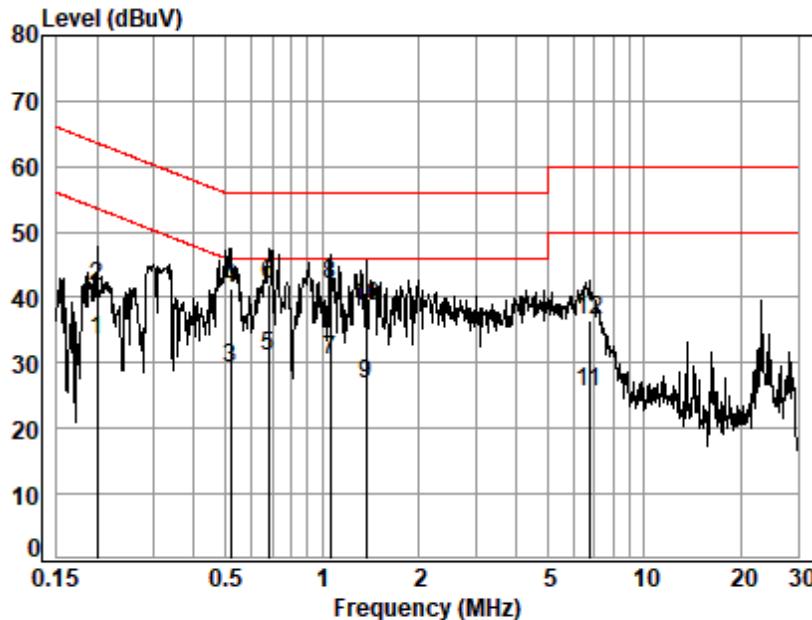
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 14 of 92

Test Mode: 07; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00375AT

Test mode: 07

Freq	Cable	LISN	Read	Limit	Over	Remark
	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dB
1	0.1997	0.02	0.26	33.30	33.58	53.62 -20.04 Average
2	0.1997	0.02	0.26	41.30	41.58	63.62 -22.04 QP
3	0.5210	0.02	0.26	28.90	29.18	46.00 -16.82 Average
4	0.5210	0.02	0.26	41.10	41.38	56.00 -14.62 QP
5	0.6826	0.02	0.22	30.70	30.94	46.00 -15.06 Average
6	0.6826	0.02	0.22	41.70	41.94	56.00 -14.06 QP
7	1.0597	0.03	0.19	30.30	30.52	46.00 -15.48 Average
8	1.0597	0.03	0.19	41.80	42.02	56.00 -13.98 QP
9	1.3665	0.02	0.18	26.50	26.70	46.00 -19.30 Average
10	1.3665	0.02	0.18	38.30	38.50	56.00 -17.50 QP
11	6.7691	0.04	0.13	25.50	25.67	50.00 -24.33 Average
12	6.7691	0.04	0.13	36.20	36.37	60.00 -23.63 QP

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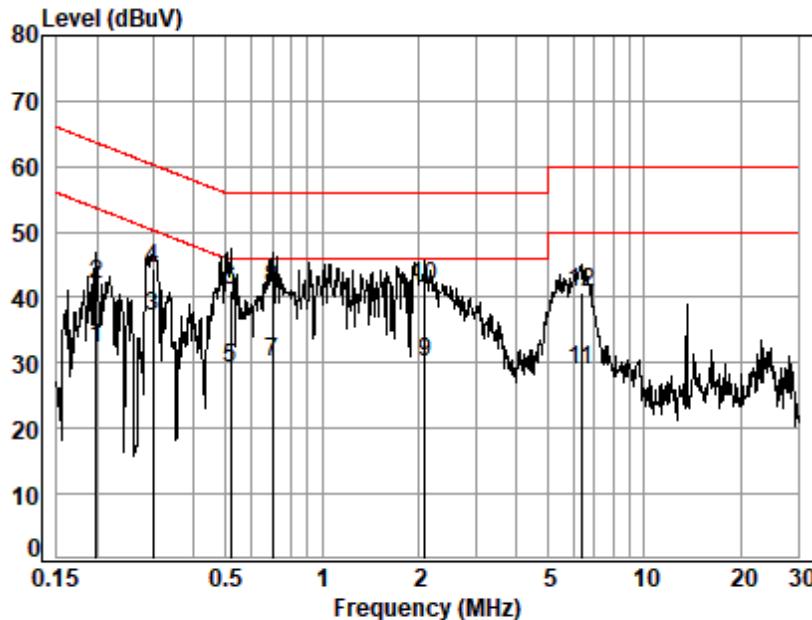
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 15 of 92

Test Mode: 07; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00375AT

Test mode: 07

Freq	Cable Loss	LISN Factor	Read	Limit Line	Over Limit	Remark
			Level			
MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1986	0.02	0.29	32.00	32.31	53.67 -21.36 Average
2	0.1986	0.02	0.29	41.80	42.11	63.67 -21.56 QP
3	0.2987	0.03	0.28	36.90	37.21	50.28 -13.07 Average
4	0.2987	0.03	0.28	44.10	44.41	60.28 -15.87 QP
5	0.5210	0.02	0.26	28.80	29.08	46.00 -16.92 Average
6	0.5210	0.02	0.26	40.70	40.98	56.00 -15.02 QP
7	0.7010	0.01	0.16	29.80	29.97	46.00 -16.03 Average
8	0.7010	0.01	0.16	41.30	41.47	56.00 -14.53 QP
9	2.0879	0.01	0.13	29.90	30.04	46.00 -15.96 Average
10	2.0879	0.01	0.13	41.60	41.74	56.00 -14.26 QP
11	6.3521	0.04	0.15	28.70	28.89	50.00 -21.11 Average
12	6.3521	0.04	0.15	40.60	40.79	60.00 -19.21 QP

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

Report No.: FYCR220900037503

Page: 16 of 92

## 7.2 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C      Humidity: 51.5 % RH      Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

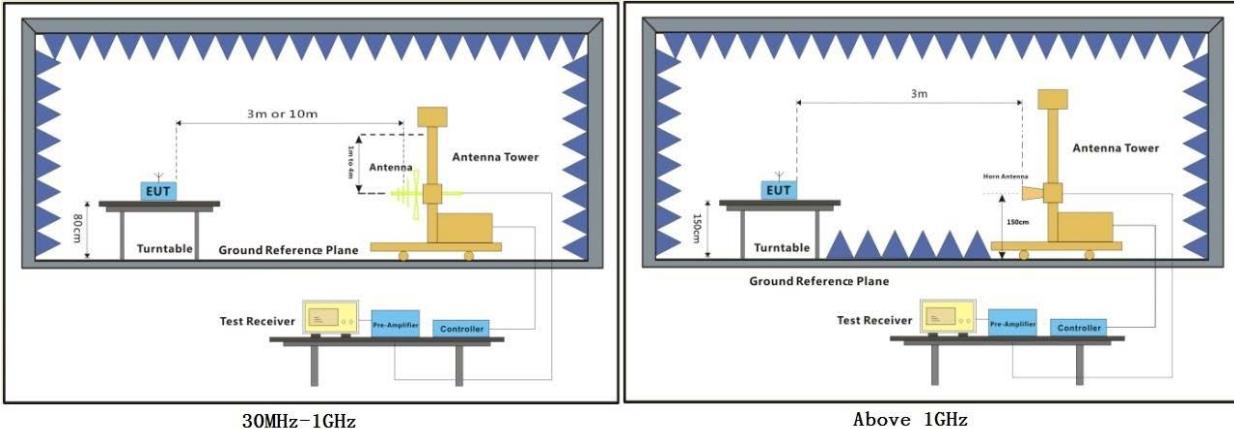
Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.
Final test	07	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.

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**7.2.3 Test Setup Diagram**

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**7.2.4 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.

Remark 3: For WLAN radiated test, according to the conducted power and verify test the SISO & MIMO mode, the worst-case is SISO mode for 802.11b/g, MIMO mode for 802.11n/ax, therefore, all final test are performed in SISO & MIMO mode and reported.

Remark 4: For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the widest bandwidth which can be covered the same channel (center frequency) on modes with narrower bandwidth that have the same or lower output power for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

Remark 5: All modes and channels have been tested, only record the worst test result.



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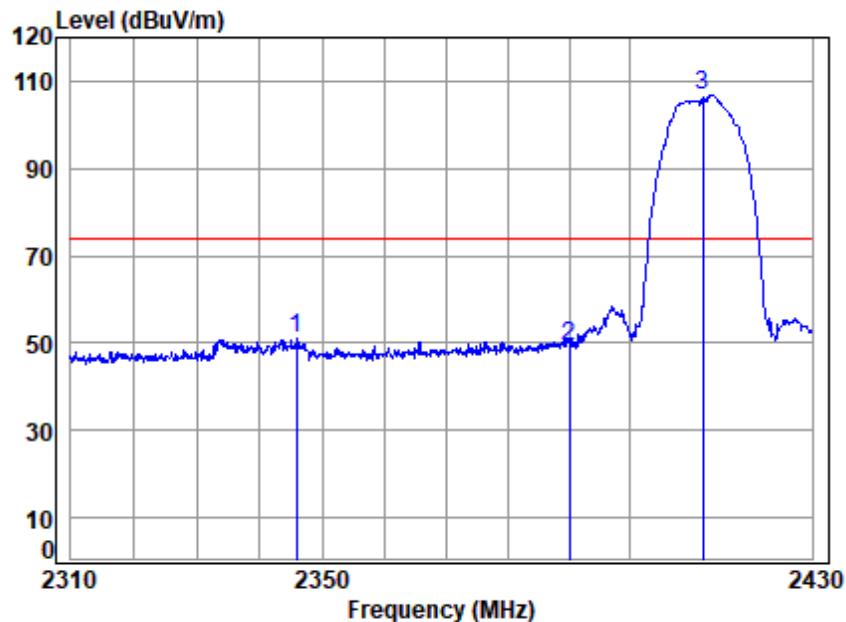
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 19 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 2345.8390	5.02	27.06		32.50	51.53	51.11	74.00	-22.89 peak
2 2390.0000	5.05	27.16		32.50	49.47	49.18	74.00	-24.82 peak
3 2412.0000	5.07	27.21		32.50	107.16	106.94	74.00	32.94 peak

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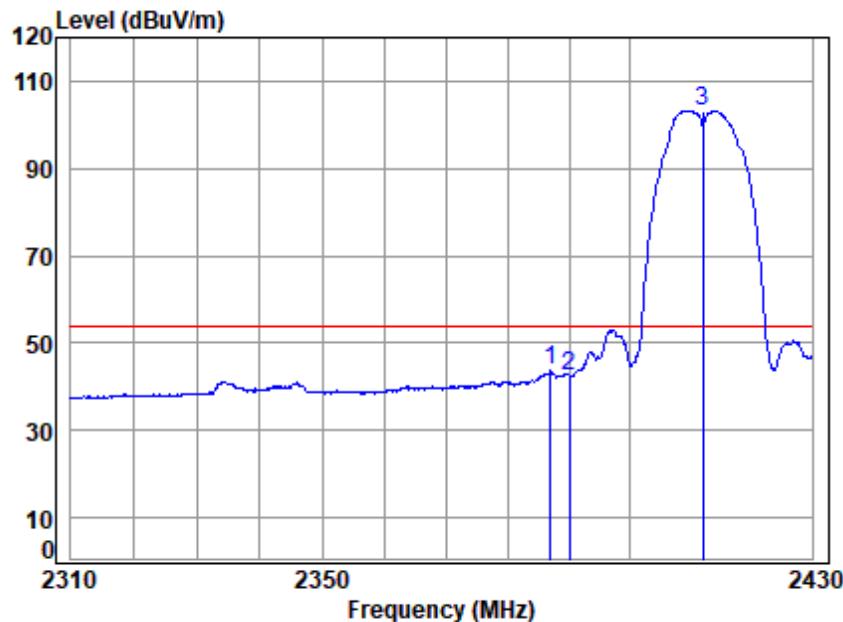
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 20 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2386.9440	5.05	27.15	32.50	43.95	43.65	54.00	-10.35 Average
2 2390.0000	5.05	27.16	32.50	42.78	42.49	54.00	-11.51 Average
3 2412.0000	5.07	27.21	32.50	103.46	103.24	54.00	49.24 Average

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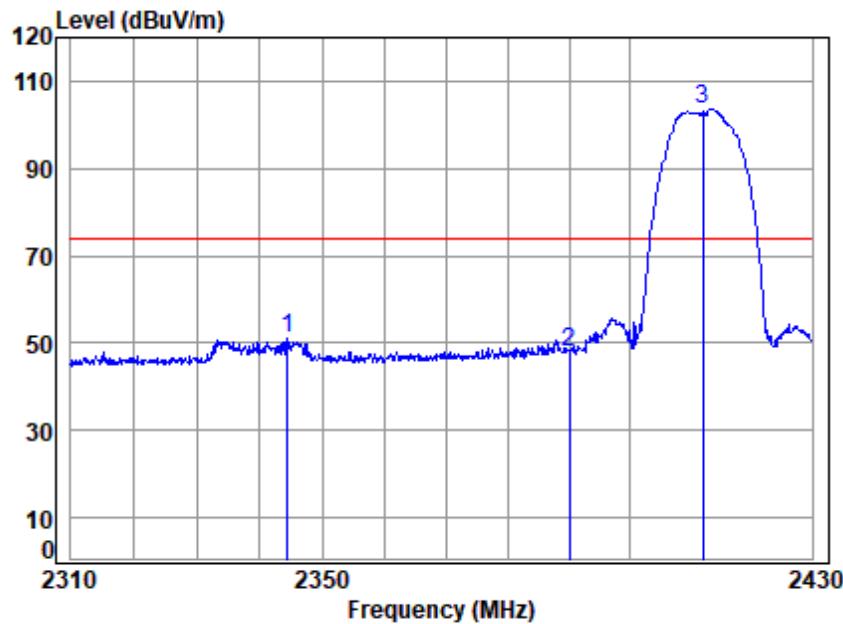
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 21 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level	dBuV	dBuV/m	dB
1 2344.5330	5.02	27.05	32.50	51.33	50.90	74.00	-23.10 Peak
2 2390.0000	5.05	27.16	32.50	48.17	47.88	74.00	-26.12 Peak
3 2412.0000	5.07	27.21	32.50	103.82	103.60	74.00	29.60 Peak

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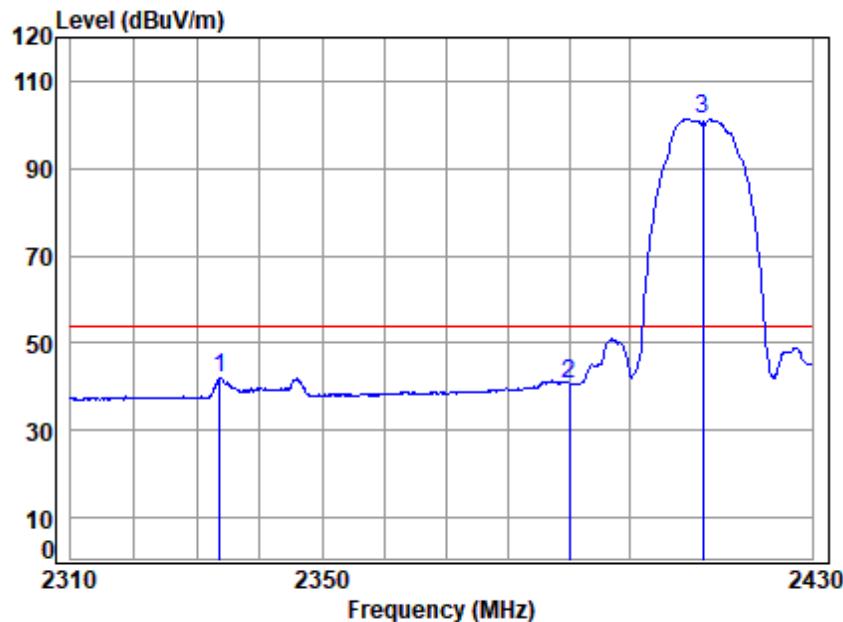
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 22 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11B

1	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2333.6350	5.01	27.03	32.50	42.64	42.18	54.00	-11.82 Average
2	2390.0000	5.05	27.16	32.50	40.84	40.55	54.00	-13.45 Average
3	2412.0000	5.07	27.21	32.50	101.55	101.33	54.00	47.33 Average



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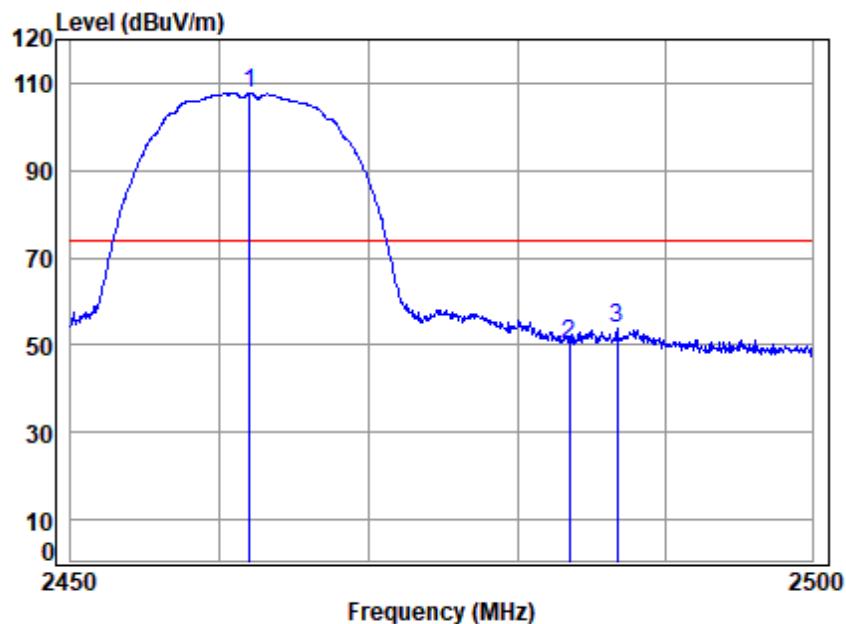
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 23 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
								dB
1 2462.0000	5.10	27.32	32.50	107.76	107.68	74.00	33.68	peak
2 2483.5000	5.12	27.36	32.50	50.42	50.40	74.00	-23.60	peak
3 2486.7520	5.12	27.37	32.50	54.01	54.00	74.00	-20.00	peak

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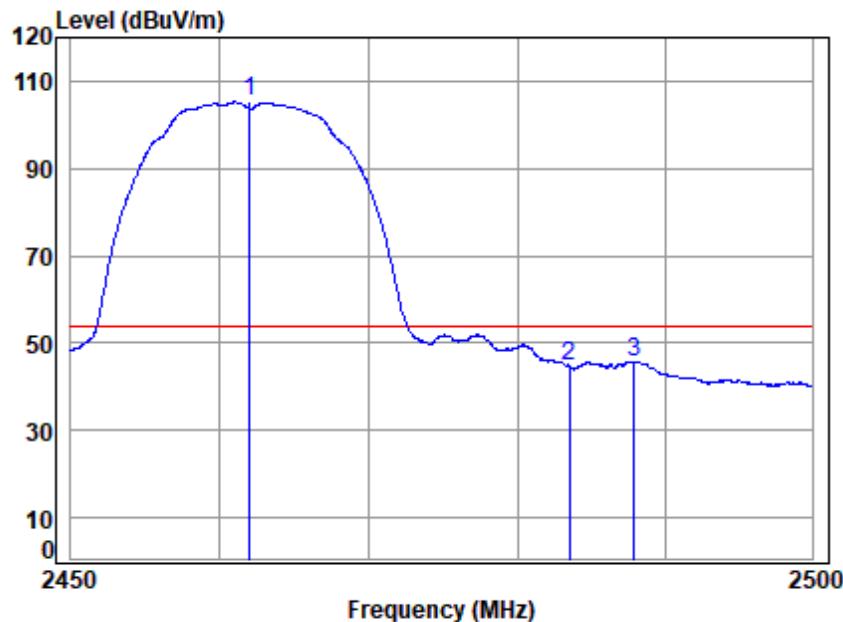
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 24 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.0000	5.10	27.32	32.50	105.29	105.21	54.00	51.21 Average
2	2483.5000	5.12	27.36	32.50	44.84	44.82	54.00	-9.18 Average
3	2487.9080	5.12	27.37	32.50	45.86	45.85	54.00	-8.15 Average



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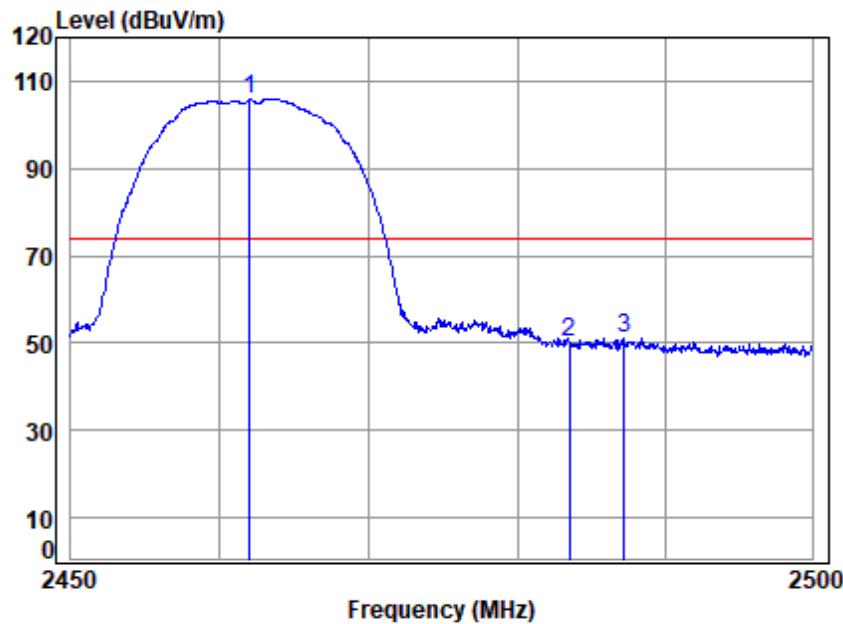
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 25 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.0000	5.10	27.32	32.50	105.94	105.86	74.00	31.86 Peak
2	2483.5000	5.12	27.36	32.50	50.34	50.32	74.00	-23.68 Peak
3	2487.2540	5.12	27.37	32.50	51.32	51.31	74.00	-22.69 Peak



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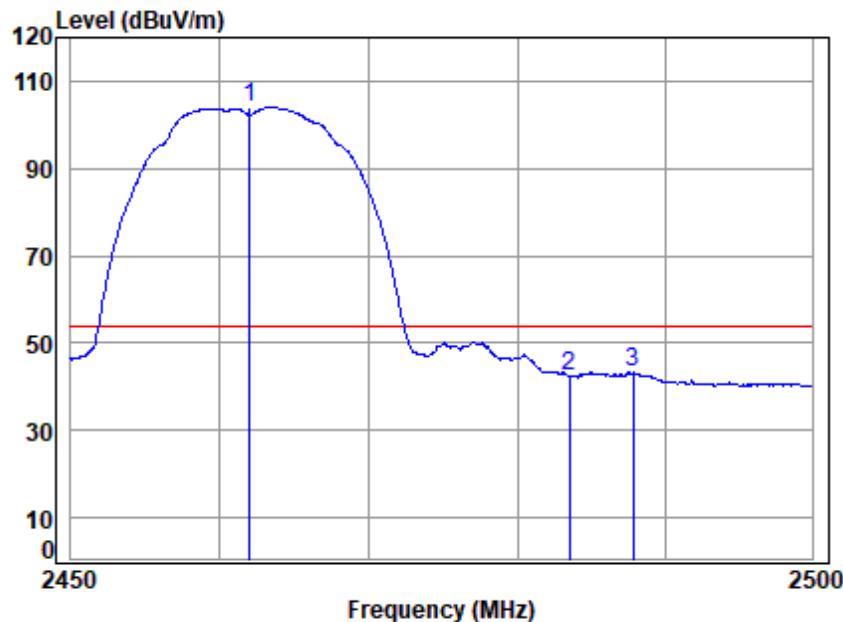
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 26 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11B

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.0000	5.10	27.32	32.50	103.99	103.91	54.00	49.91 Average
2	2483.5000	5.12	27.36	32.50	42.47	42.45	54.00	-11.55 Average
3	2487.8070	5.12	27.37	32.50	43.35	43.34	54.00	-10.66 Average



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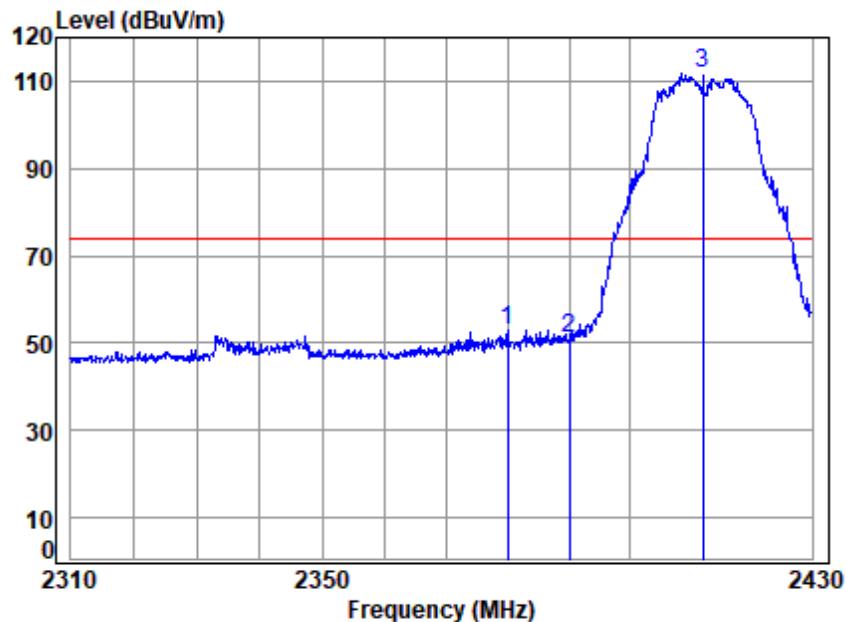
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 27 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2379.9430	5.05	27.14	32.50	53.19	52.88	74.00	-21.12 peak
2	2390.0000	5.05	27.16	32.50	51.49	51.20	74.00	-22.80 peak
3	2412.0000	5.07	27.21	32.50	112.07	111.85	74.00	37.85 peak



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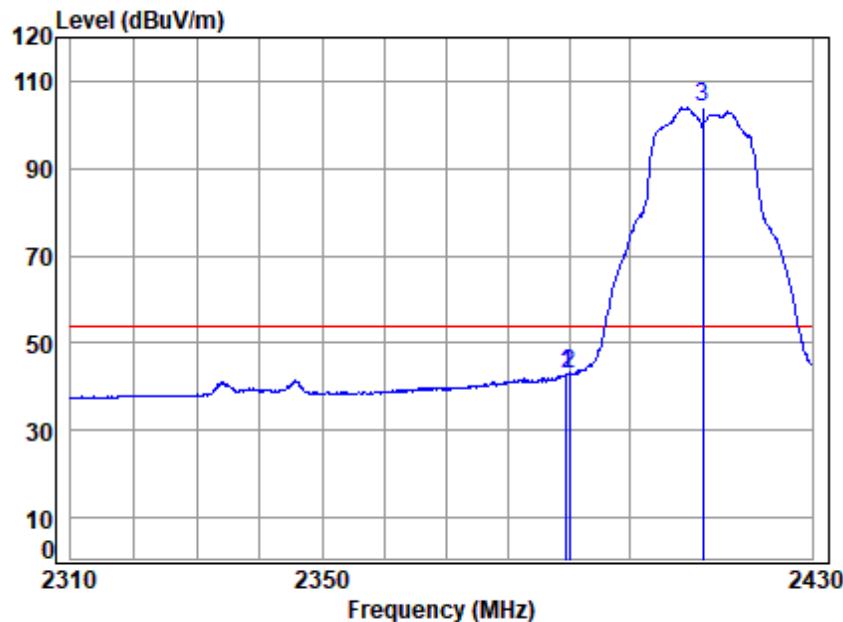
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 28 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.6050	5.05	27.16	32.50	43.32	43.03	54.00	-10.97 Average
2	2390.0000	5.05	27.16	32.50	43.15	42.86	54.00	-11.14 Average
3	2412.0000	5.07	27.21	32.50	104.15	103.93	54.00	49.93 Average

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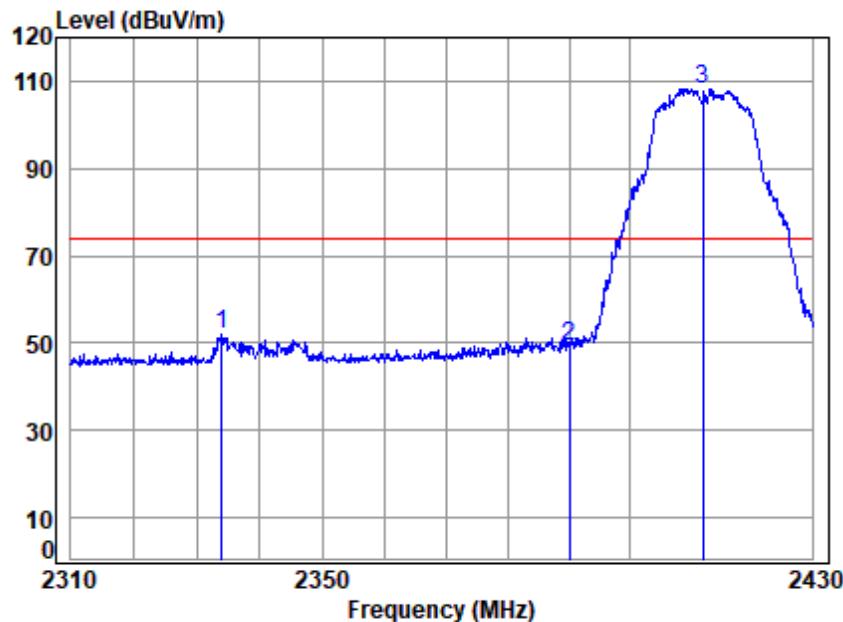
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 29 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 2333.9890	5.01	27.03	32.50	52.25	51.79	74.00	-22.21	Peak
2 2390.0000	5.05	27.16	32.50	49.79	49.50	74.00	-24.50	Peak
3 2412.0000	5.07	27.21	32.50	108.54	108.32	74.00	34.32	Peak

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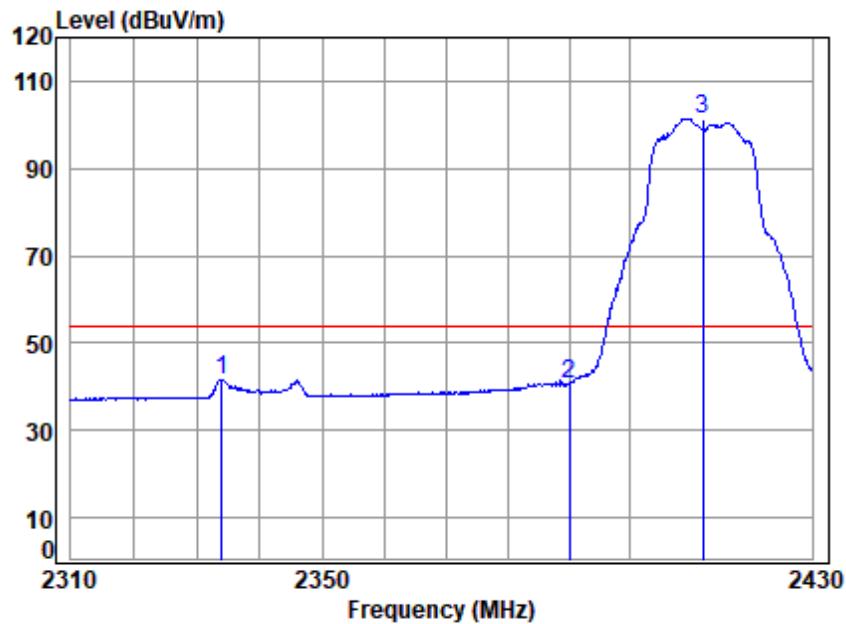
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 30 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 2333.9890	5.01	27.03	32.50	42.03	41.57	54.00	-12.43	Average
2 2390.0000	5.05	27.16	32.50	41.00	40.71	54.00	-13.29	Average
3 2412.0000	5.07	27.21	32.50	101.74	101.52	54.00	47.52	Average



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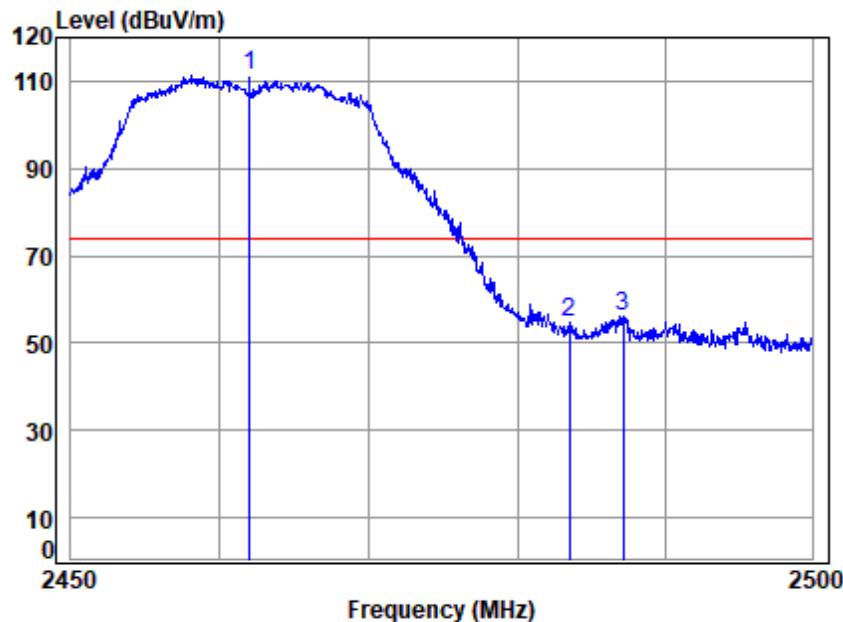
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 31 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 2462.0000	5.10	27.32	32.50	111.49	111.41	74.00	37.41	peak
2 2483.5000	5.12	27.36	32.50	54.65	54.63	74.00	-19.37	peak
3 2487.1540	5.12	27.37	32.50	56.29	56.28	74.00	-17.72	peak

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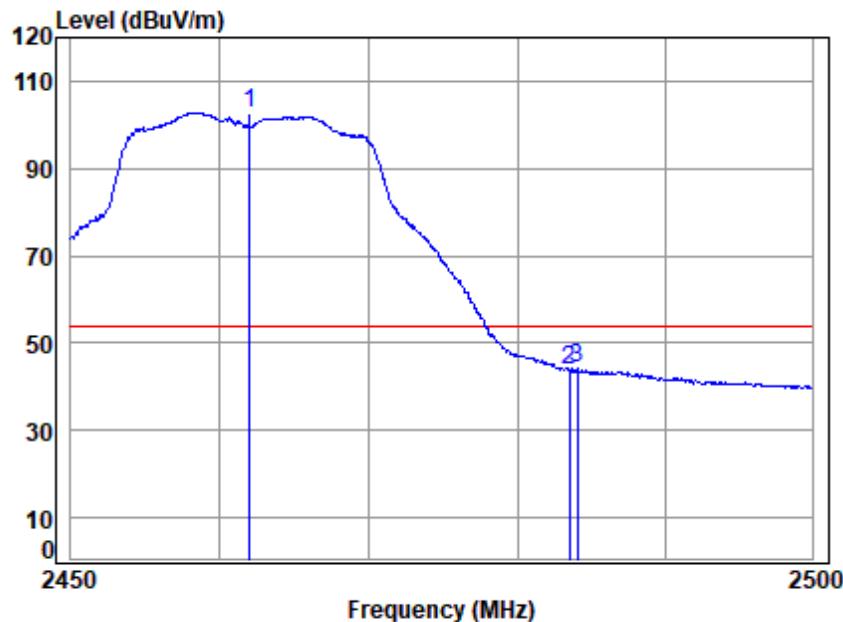
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 32 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11G

1	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
		MHz	Loss	Factor	Level	Level	Line		
			dB	dB/m		dBuV	dBuV/m	dBuV/m	dB
1	2462.0000	5.10	27.32	32.50	102.93	102.85	54.00	48.85	Average
2	2483.5000	5.12	27.36	32.50	43.66	43.64	54.00	-10.36	Average
3	2484.0410	5.12	27.37	32.50	44.23	44.22	54.00	-9.78	Average



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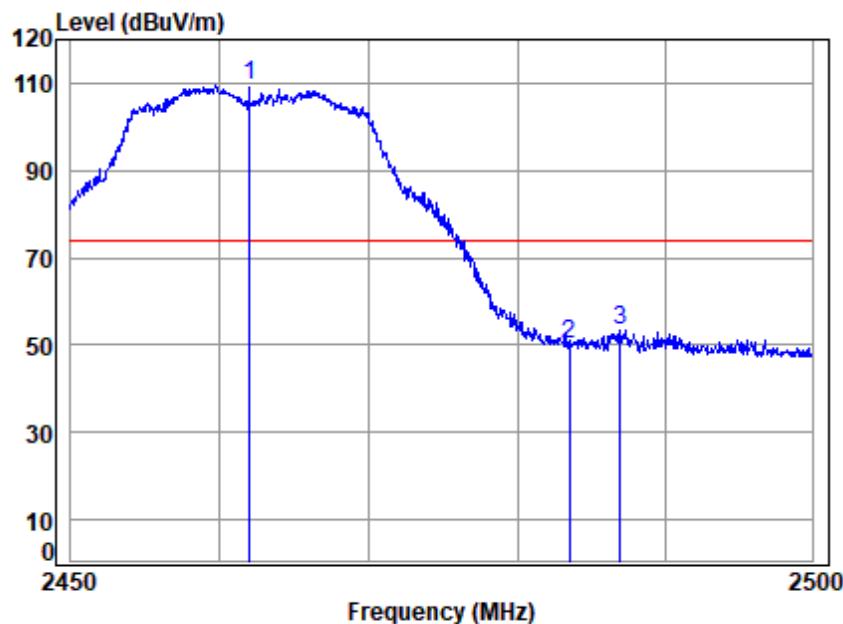
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 33 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
1 2462.0000	5.10	27.32	32.50	109.45	109.37	74.00	35.37	Peak	
2 2483.5000	5.12	27.36	32.50	50.06	50.04	74.00	-23.96	Peak	
3 2486.9530	5.12	27.37	32.50	53.37	53.36	74.00	-20.64	Peak	

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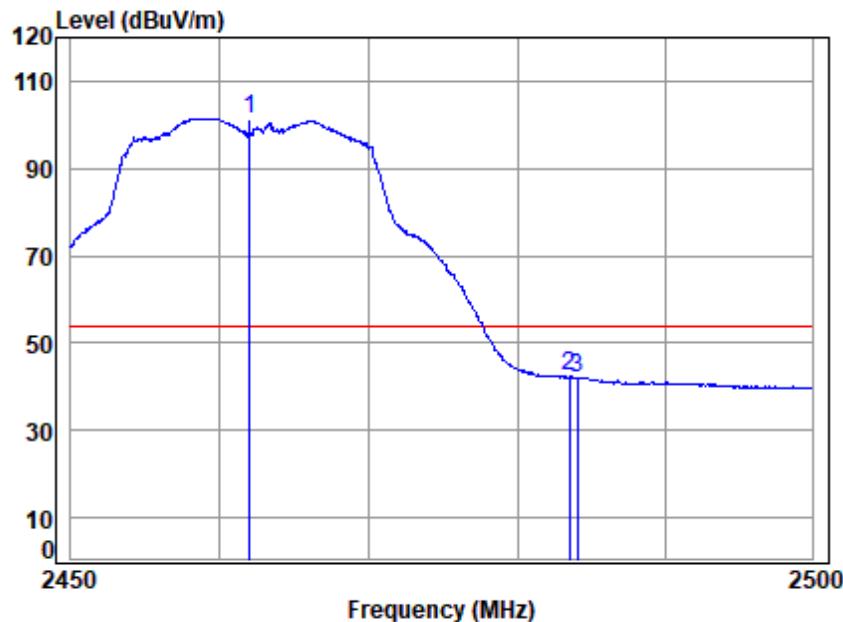
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 34 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
1	2462.0000	5.10	27.32	32.50	101.59	101.51	54.00	47.51 Average
2	2483.5000	5.12	27.36	32.50	42.30	42.28	54.00	-11.72 Average
3	2484.0910	5.12	27.37	32.50	42.16	42.15	54.00	-11.85 Average

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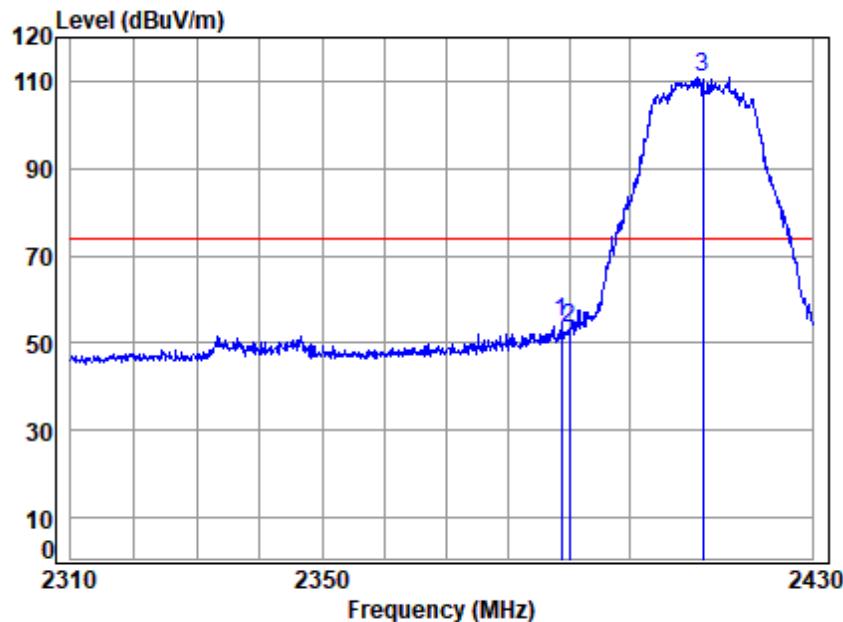
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 35 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 2388.7580	5.05	27.16	32.50	54.86	54.57	74.00	-19.43	peak
2 2390.0000	5.05	27.16	32.50	53.45	53.16	74.00	-20.84	peak
3 2412.0000	5.07	27.21	32.50	111.11	110.89	74.00	36.89	peak



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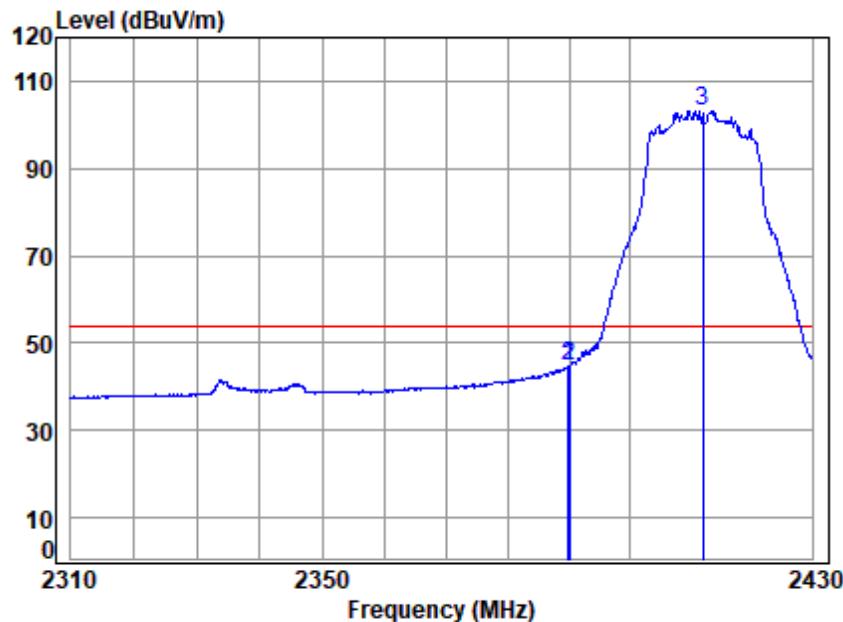
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 36 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 2389.8470	5.05	27.16	32.50	45.14	44.85	54.00	-9.15	Average
2 2390.0000	5.05	27.16	32.50	45.00	44.71	54.00	-9.29	Average
3 2412.0000	5.07	27.21	32.50	103.56	103.34	54.00	49.34	Average

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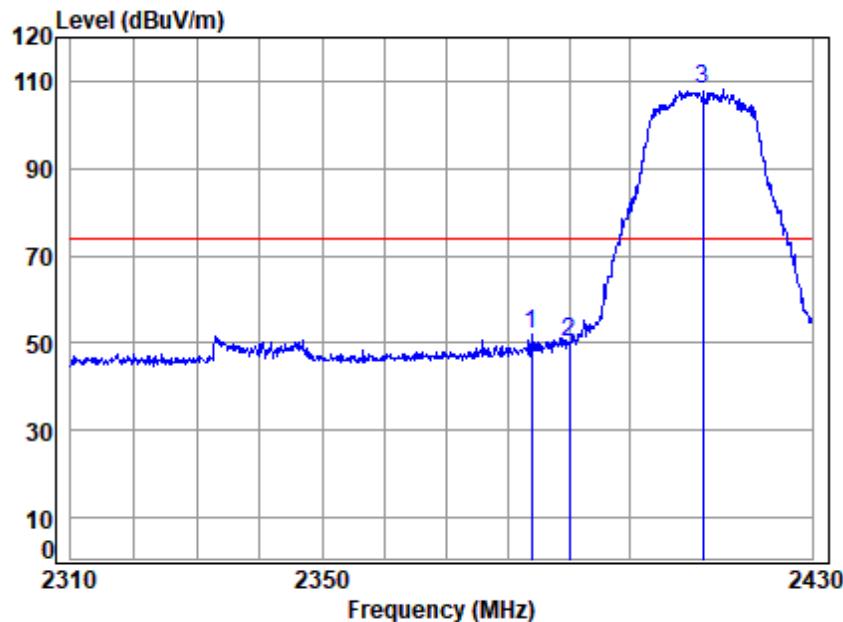
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 37 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2383.8030	5.05	27.14	32.50	52.42	52.11	74.00	-21.89 Peak
2	2390.0000	5.05	27.16	32.50	50.42	50.13	74.00	-23.87 Peak
3	2412.0000	5.07	27.21	32.50	108.45	108.23	74.00	34.23 Peak

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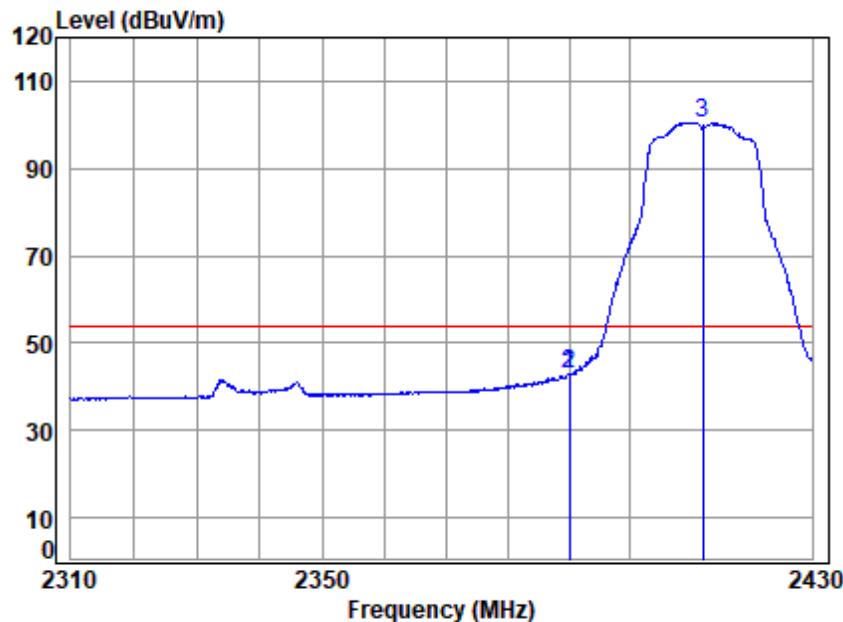
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 38 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11N20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.9680	5.05	27.16	32.50	43.21	42.92	54.00	-11.08 Average
2	2390.0000	5.05	27.16	32.50	43.21	42.92	54.00	-11.08 Average
3	2412.0000	5.07	27.21	32.50	100.80	100.58	54.00	46.58 Average

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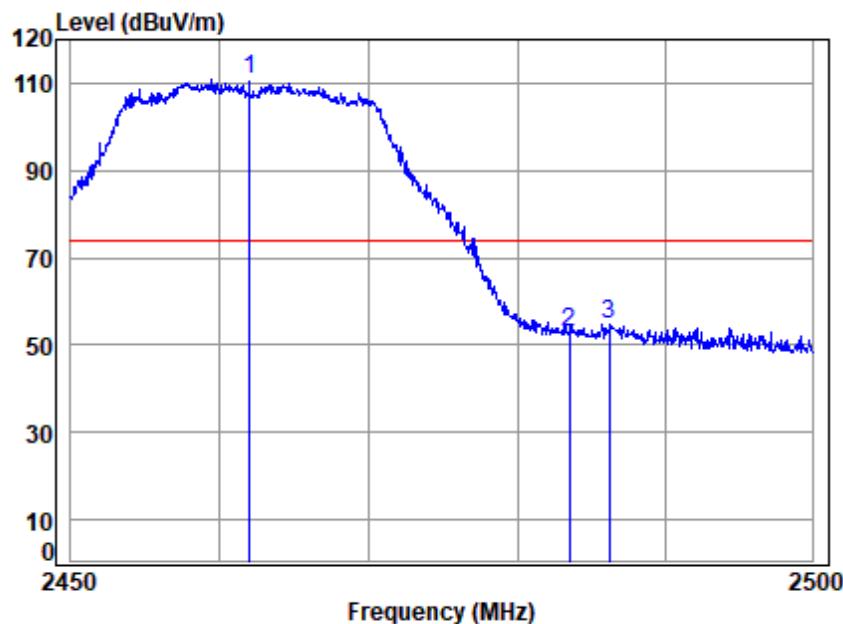
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 39 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
1 2462.0000	5.10	27.32	32.50	111.06	110.98	74.00	36.98	peak	
2 2483.5000	5.12	27.36	32.50	52.74	52.72	74.00	-21.28	peak	
3 2486.2500	5.12	27.37	32.50	54.74	54.73	74.00	-19.27	peak	



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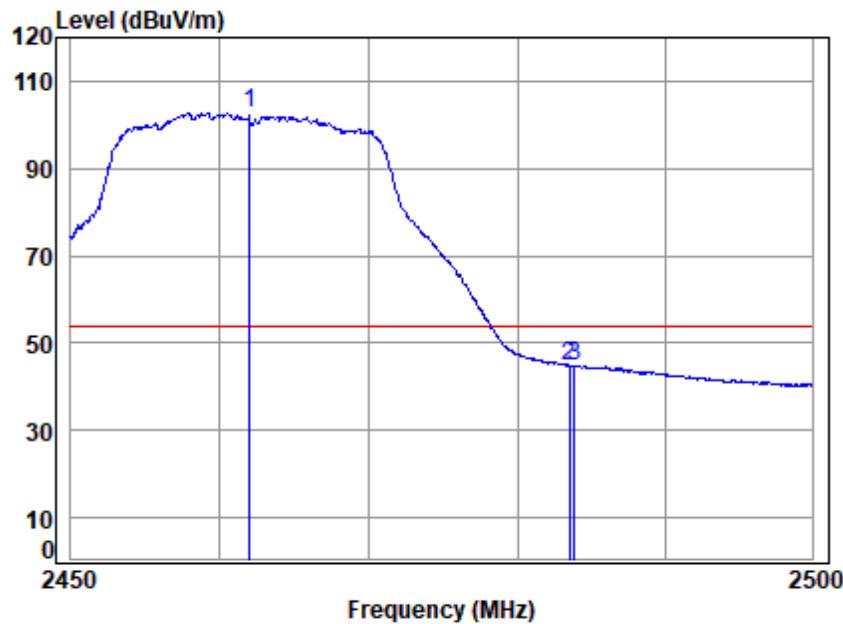
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 40 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11N20

1	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.0000	5.10	27.32	32.50	102.87	102.79	54.00	48.79 Average
2	2483.5000	5.12	27.36	32.50	44.75	44.73	54.00	-9.27 Average
3	2483.8900	5.12	27.37	32.50	44.92	44.91	54.00	-9.09 Average



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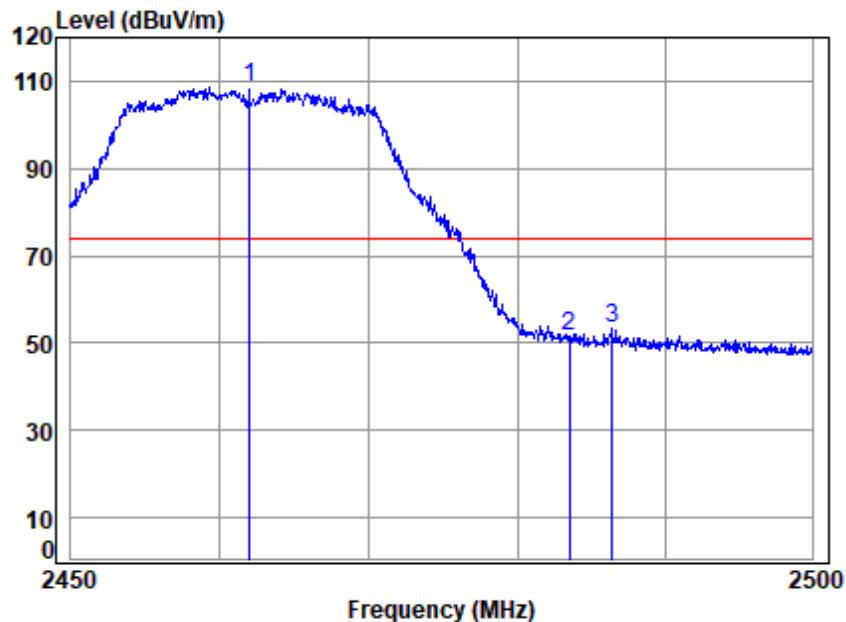
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 41 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
1 2462.0000	5.10	27.32	32.50	108.47	108.39	74.00	34.39	Peak	
2 2483.5000	5.12	27.36	32.50	51.62	51.60	74.00	-22.40	Peak	
3 2486.4000	5.12	27.37	32.50	53.44	53.43	74.00	-20.57	Peak	

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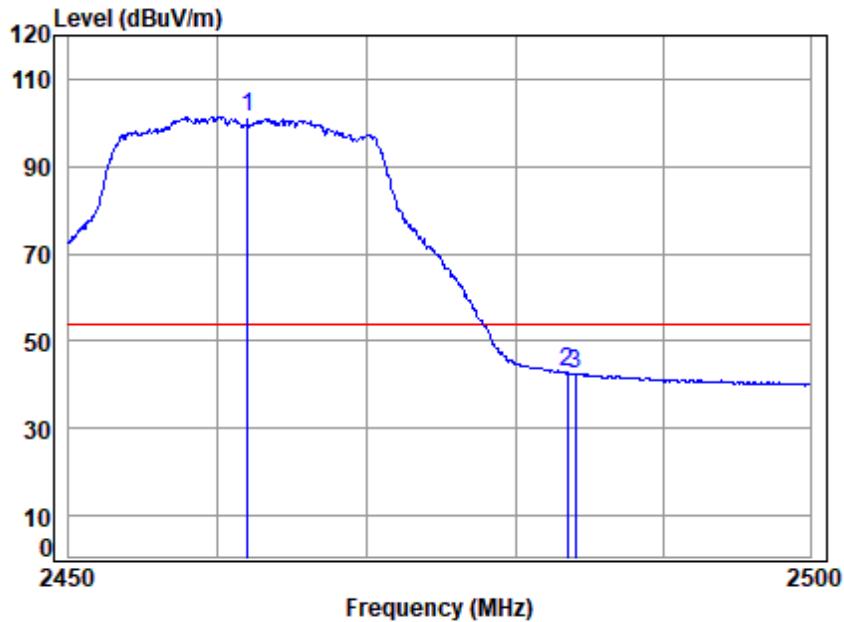
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 42 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level	Level	dBuV	dBuV/m	dBuV/m
1 2462.0000	5.10	27.32	32.50	101.40	101.32	54.00	47.32	Average
2 2483.5000	5.12	27.36	32.50	42.77	42.75	54.00	-11.25	Average
3 2484.0910	5.12	27.37	32.50	42.65	42.64	54.00	-11.36	Average

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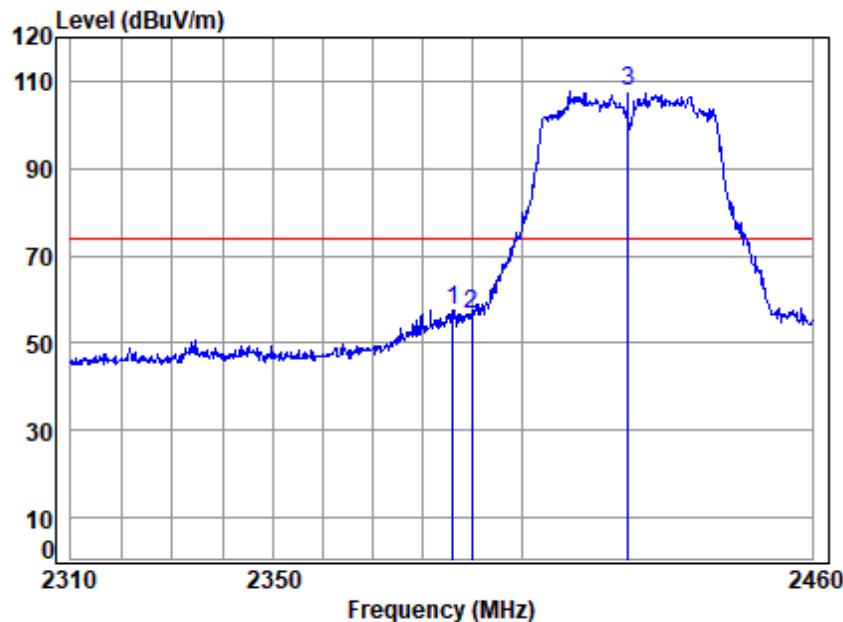
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 43 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2422 Band edge  
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 2386.2210	5.05	27.15	32.50	57.70	57.40	74.00	-16.60	peak
2 2390.0000	5.05	27.16	32.50	56.76	56.47	74.00	-17.53	peak
3 2422.0000	5.08	27.23	32.50	107.74	107.55	74.00	33.55	peak

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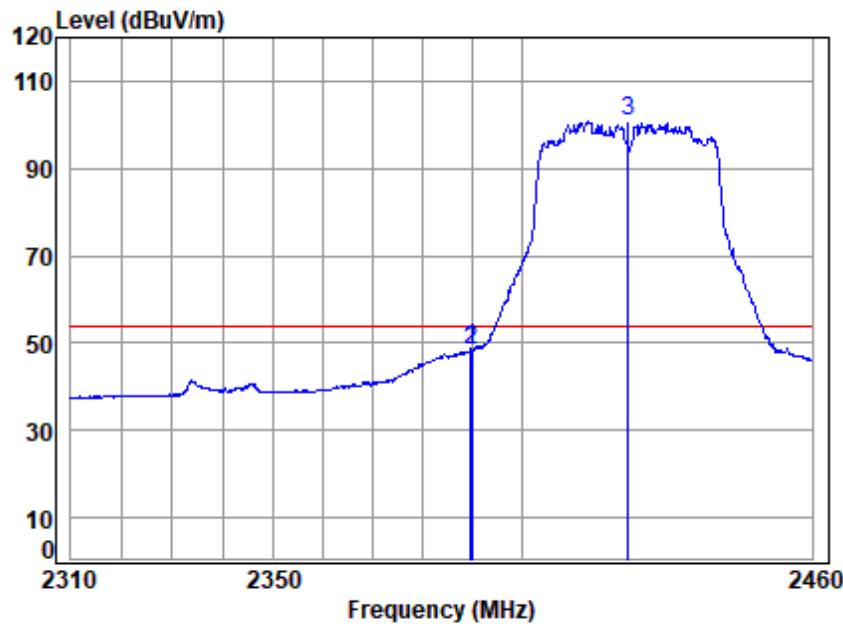
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 44 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2422 Band edge  
Note : 2.4G WIFI 11N40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.6770	5.05	27.16	32.50	49.03	48.74	54.00	-5.26 Average
2	2390.0000	5.05	27.16	32.50	48.77	48.48	54.00	-5.52 Average
3	2422.0000	5.08	27.23	32.50	100.81	100.62	54.00	46.62 Average



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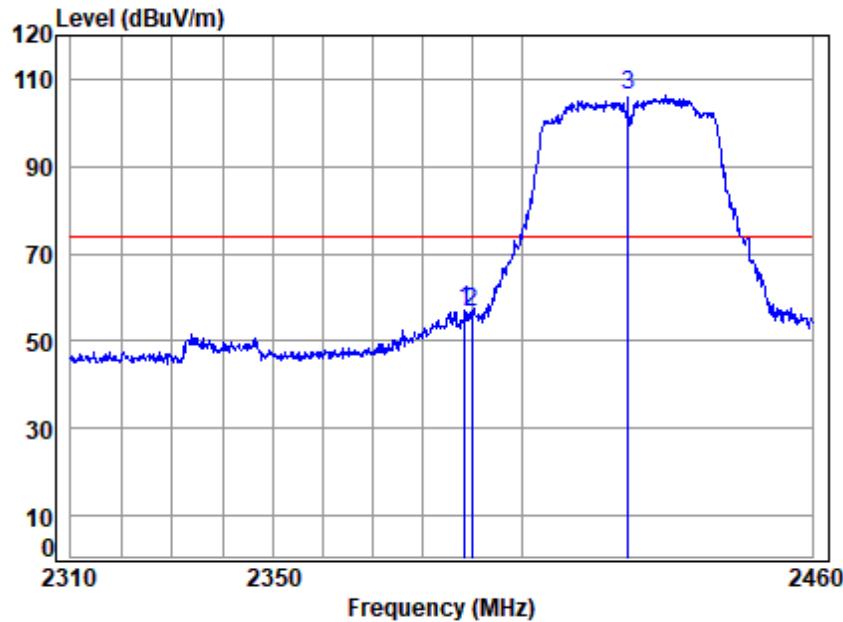
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 45 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2422 Band edge  
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 2388.6250	5.05	27.15	32.50	57.11	56.81	74.00	-17.19	Peak
2 2390.0000	5.05	27.16	32.50	56.99	56.70	74.00	-17.30	Peak
3 2422.0000	5.08	27.23	32.50	106.64	106.45	74.00	32.45	Peak



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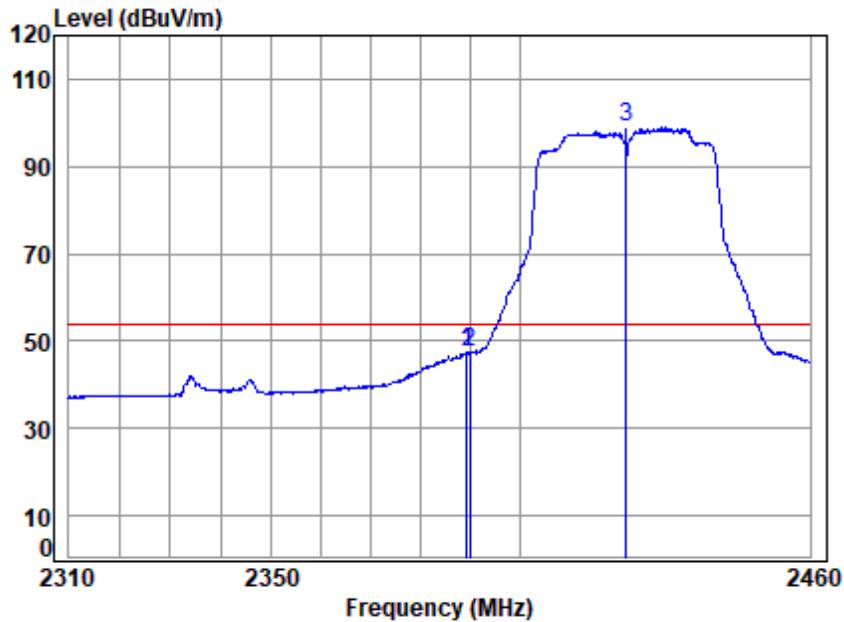
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 46 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2422 Band edge  
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.3760	5.05	27.16	32.50	47.59	47.30	54.00	-6.70 Average
2	2390.0000	5.05	27.16	32.50	47.57	47.28	54.00	-6.72 Average
3	2422.0000	5.08	27.23	32.50	99.03	98.84	54.00	44.84 Average

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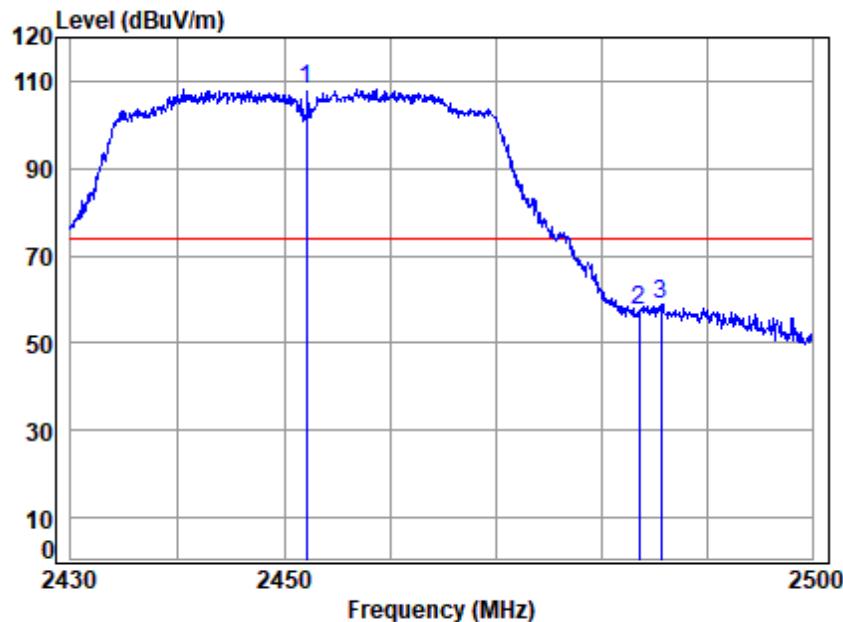
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 47 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2452 Band edge  
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
1 2452.0000	5.10	27.30	32.50	108.18	108.08	74.00	34.08	peak	
2 2483.5000	5.12	27.36	32.50	57.59	57.57	74.00	-16.43	peak	
3 2485.5580	5.12	27.37	32.50	58.84	58.83	74.00	-15.17	peak	



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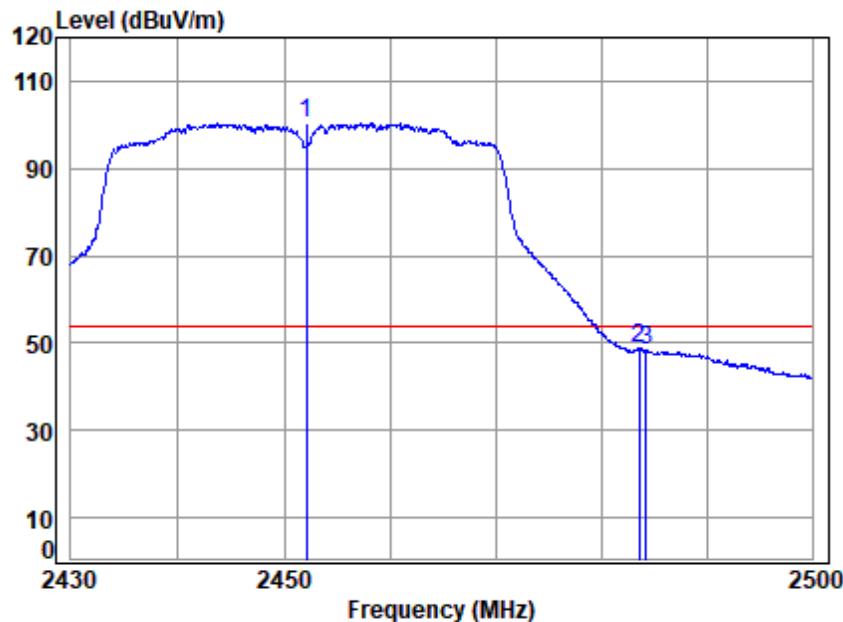
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 48 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2452 Band edge  
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2452.0000	5.10	27.30	32.50	100.43	100.33	54.00	46.33 Average
2 2483.5000	5.12	27.36	32.50	48.65	48.63	54.00	-5.37 Average
3 2484.1470	5.12	27.37	32.50	48.21	48.20	54.00	-5.80 Average



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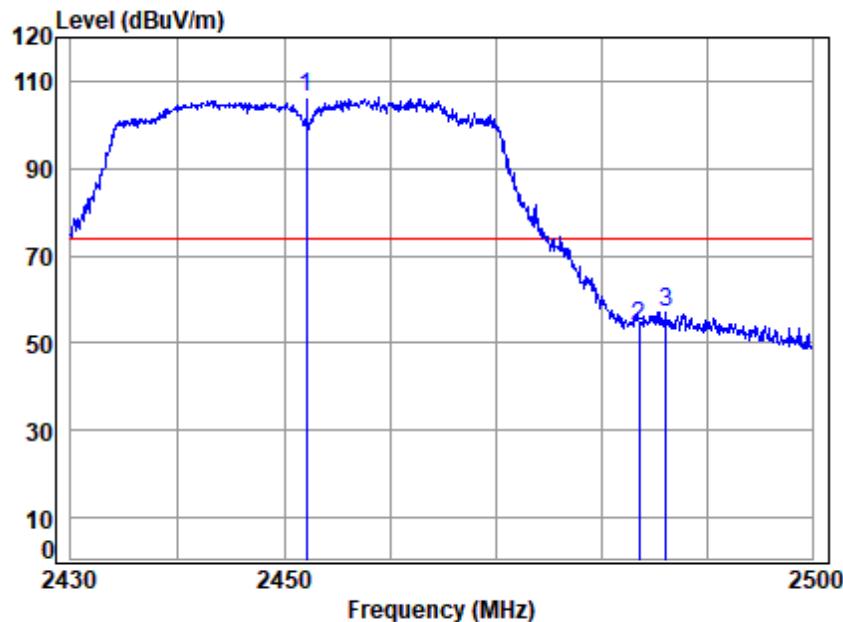
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 49 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2452 Band edge  
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dB/m			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1 2452.0000	5.10	27.30	32.50	106.44	106.34	74.00	32.34	Peak
2 2483.5000	5.12	27.36	32.50	54.09	54.07	74.00	-19.93	Peak
3 2486.0520	5.12	27.37	32.50	56.97	56.96	74.00	-17.04	Peak



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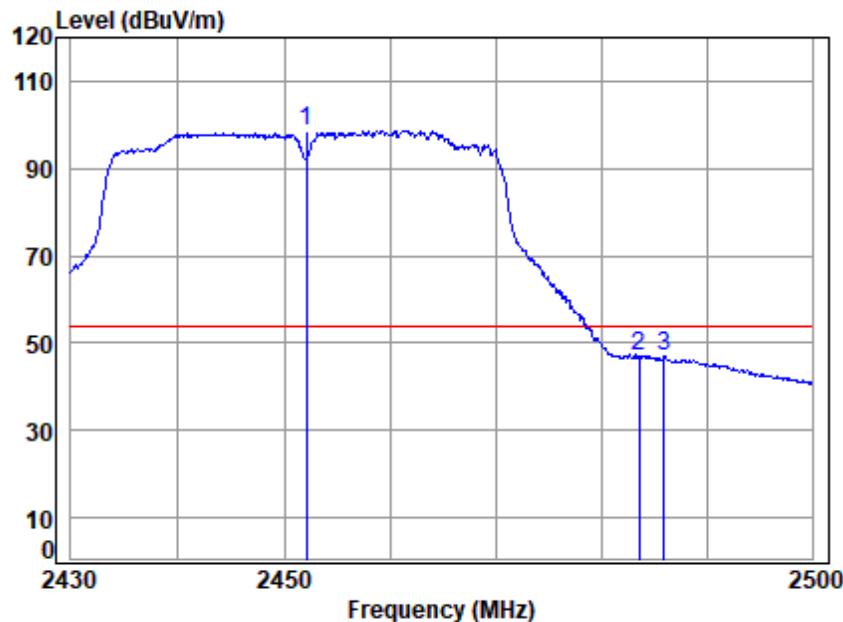
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 50 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2452 Band edge  
Note : 2.4G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 2452.0000	5.10	27.30	32.50	98.69	98.59	54.00	44.59	Average
2 2483.5000	5.12	27.36	32.50	46.98	46.96	54.00	-7.04	Average
3 2485.8410	5.12	27.37	32.50	46.99	46.98	54.00	-7.02	Average

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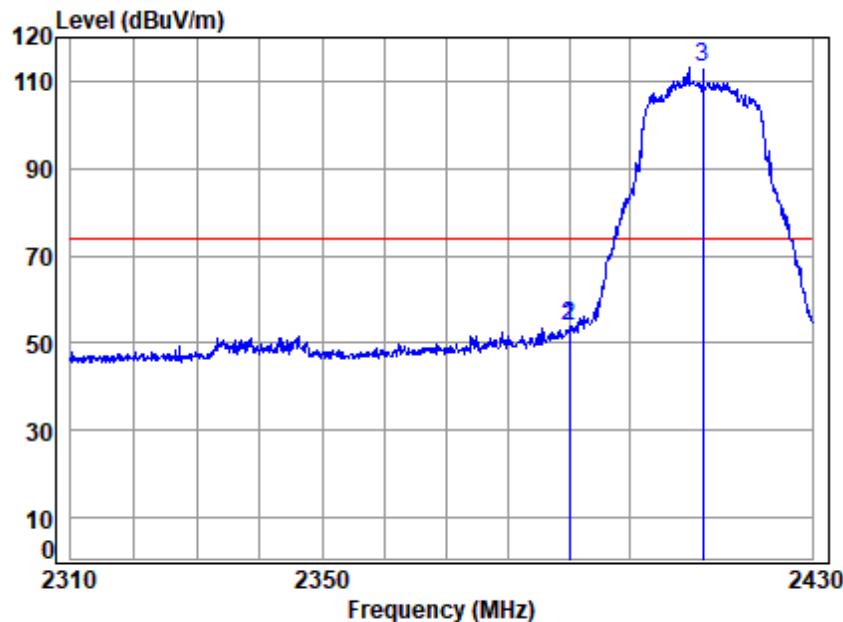
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 51 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2389.9680	5.05	27.16	32.50	54.21	53.92	74.00	-20.08 peak
2 2390.0000	5.05	27.16	32.50	54.21	53.92	74.00	-20.08 peak
3 2412.0000	5.07	27.21	32.50	113.20	112.98	74.00	38.98 peak

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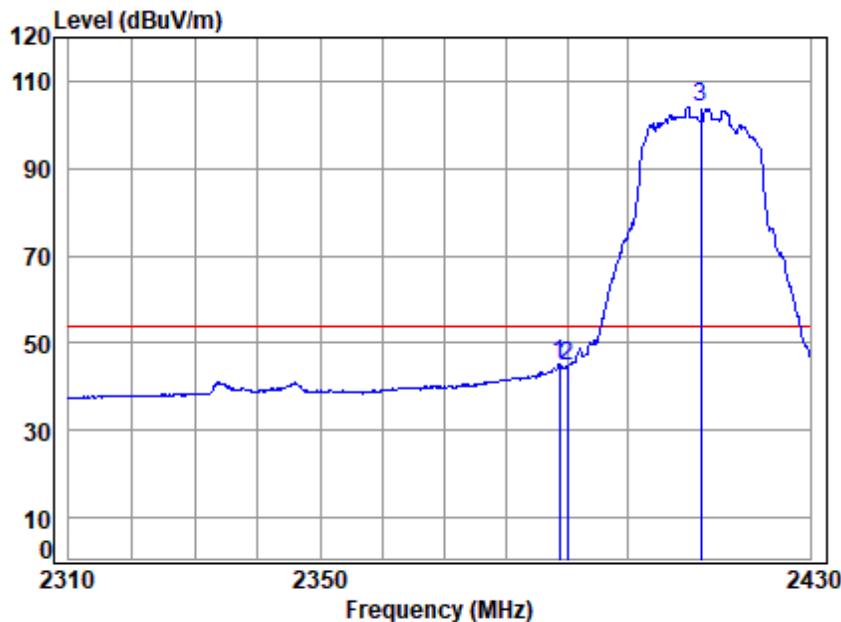
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 52 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
1 2388.7580	5.05	27.16	32.50	45.46	45.17	54.00	-8.83 Average
2 2390.0000	5.05	27.16	32.50	45.12	44.83	54.00	-9.17 Average
3 2412.0000	5.07	27.21	32.50	104.40	104.18	54.00	50.18 Average



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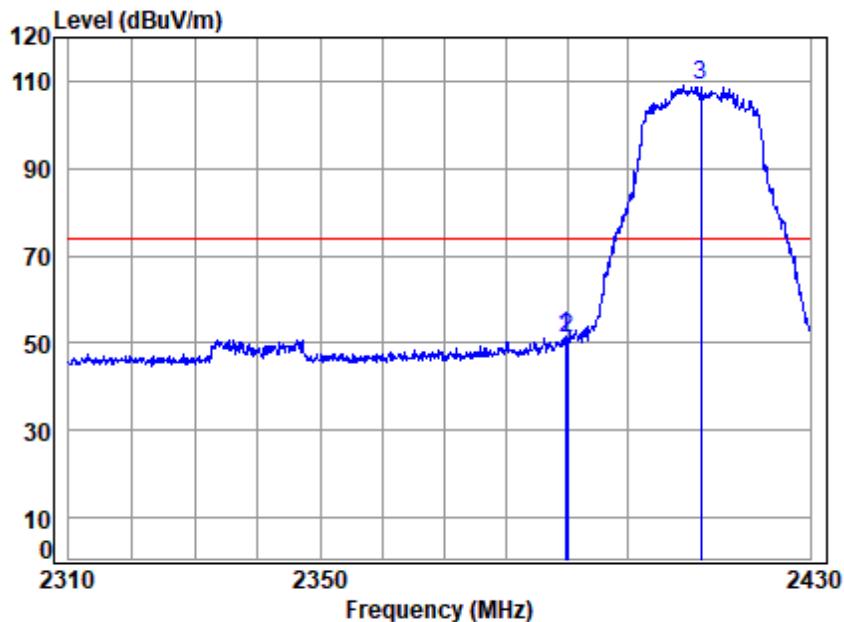
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 53 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 2389.7260	5.05	27.16	32.50	51.69	51.40	74.00	-22.60	Peak
2 2390.0000	5.05	27.16	32.50	51.26	50.97	74.00	-23.03	Peak
3 2412.0000	5.07	27.21	32.50	109.08	108.86	74.00	34.86	Peak

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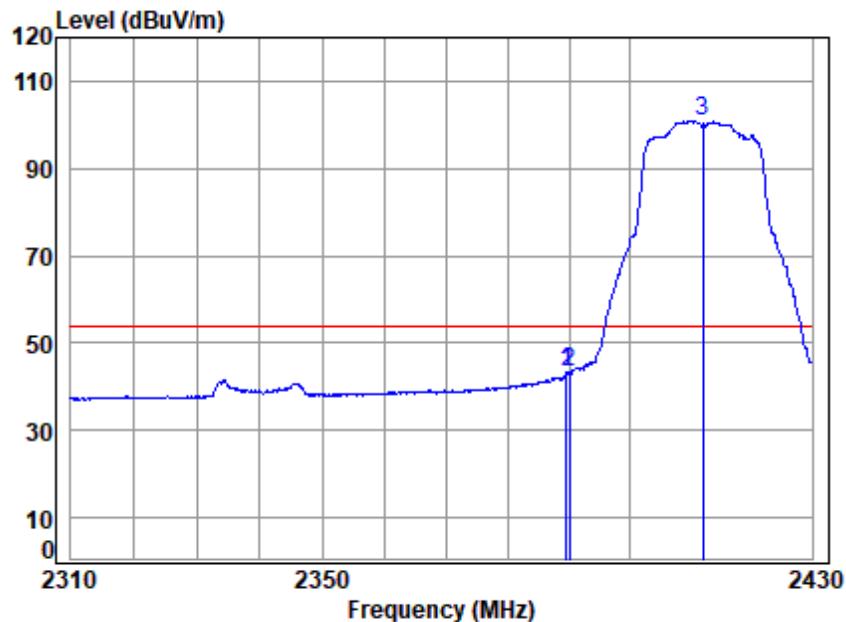
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 54 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2412 Band edge  
Note : 2.4G WIFI 11AX20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.6050	5.05	27.16	32.50	43.62	43.33	54.00	-10.67 Average
2	2390.0000	5.05	27.16	32.50	43.46	43.17	54.00	-10.83 Average
3	2412.0000	5.07	27.21	32.50	100.99	100.77	54.00	46.77 Average



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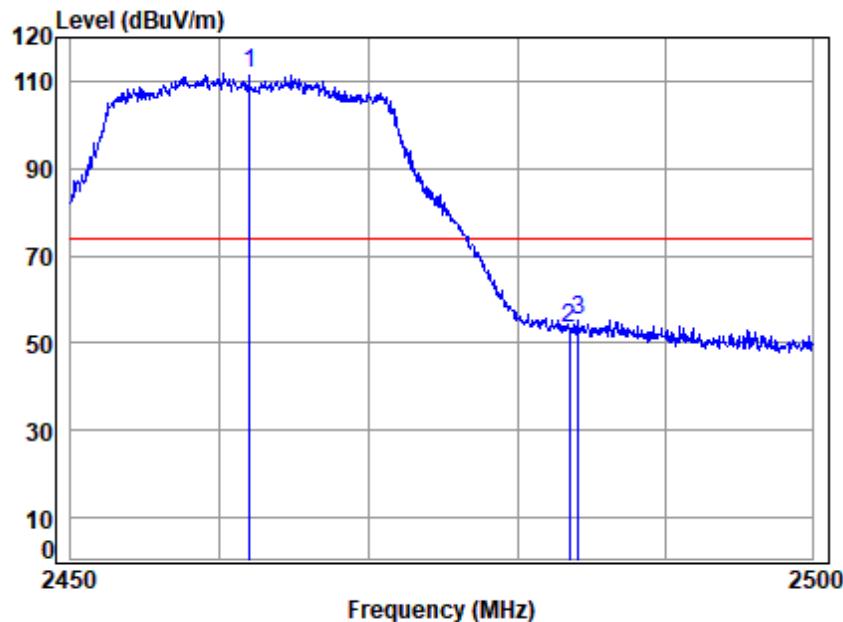
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 55 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 2462.0000	5.10	27.32	32.50	111.83	111.75	74.00	37.75	peak	
2 2483.5000	5.12	27.36	32.50	53.46	53.44	74.00	-20.56	peak	
3 2484.1410	5.12	27.37	32.50	55.38	55.37	74.00	-18.63	peak	

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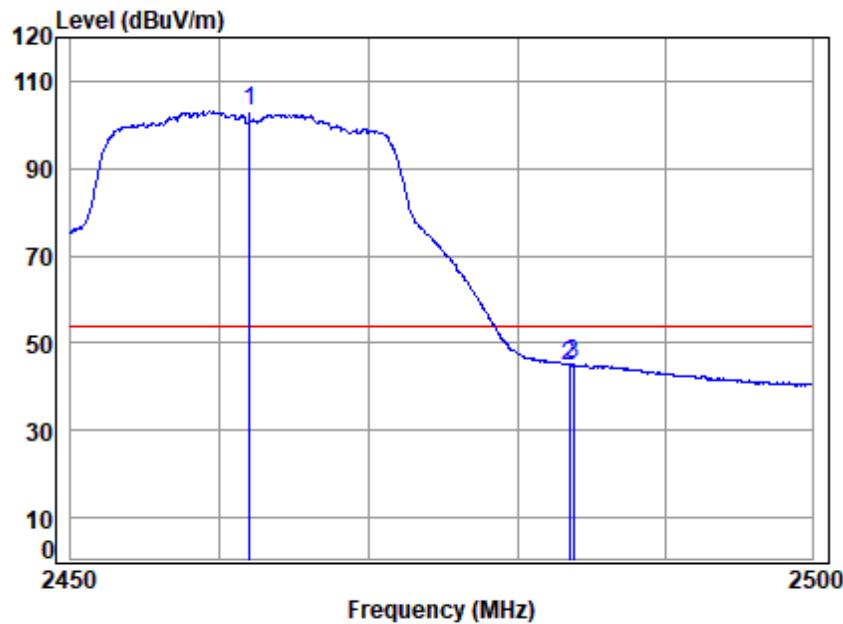
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 56 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11AX20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
1	2462.0000	5.10	27.32	32.50	103.07	102.99	54.00	48.99 Average
2	2483.5000	5.12	27.36	32.50	44.89	44.87	54.00	-9.13 Average
3	2483.7900	5.12	27.37	32.50	44.98	44.97	54.00	-9.03 Average



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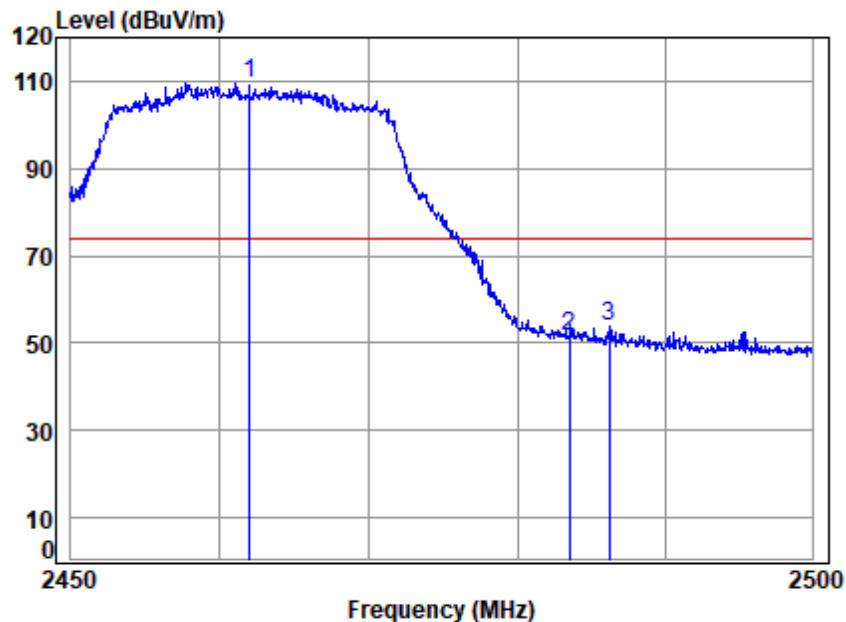
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 57 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11AX20

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2462.0000	5.10	27.32	32.50	109.50	109.42	74.00	35.42 Peak
2	2483.5000	5.12	27.36	32.50	51.60	51.58	74.00	-22.42 Peak
3	2486.1990	5.12	27.37	32.50	53.69	53.68	74.00	-20.32 Peak



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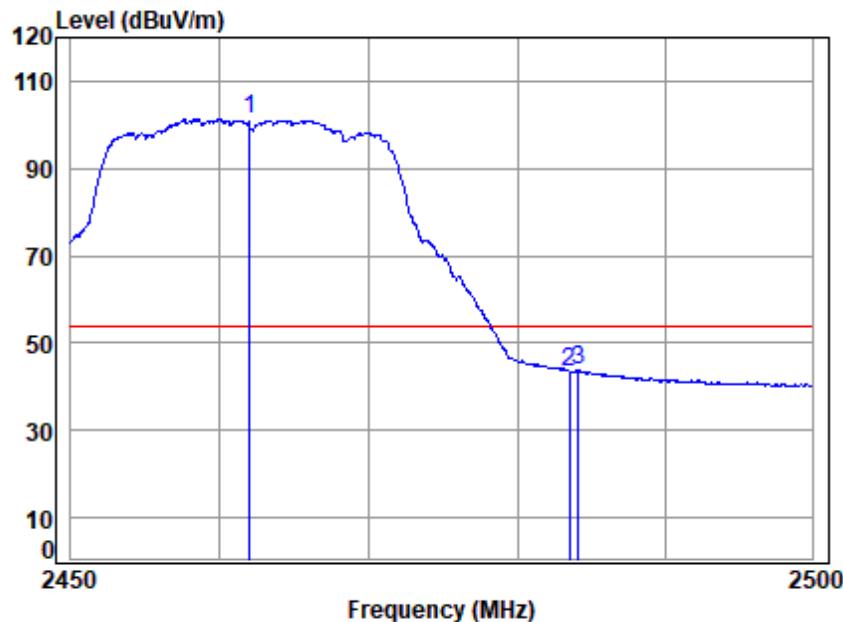
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 58 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 Band edge  
Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1 2462.0000	5.10	27.32	32.50	101.38	101.30	54.00	47.30	Average	
2 2483.5000	5.12	27.36	32.50	43.53	43.51	54.00	-10.49	Average	
3 2484.1410	5.12	27.37	32.50	43.75	43.74	54.00	-10.26	Average	

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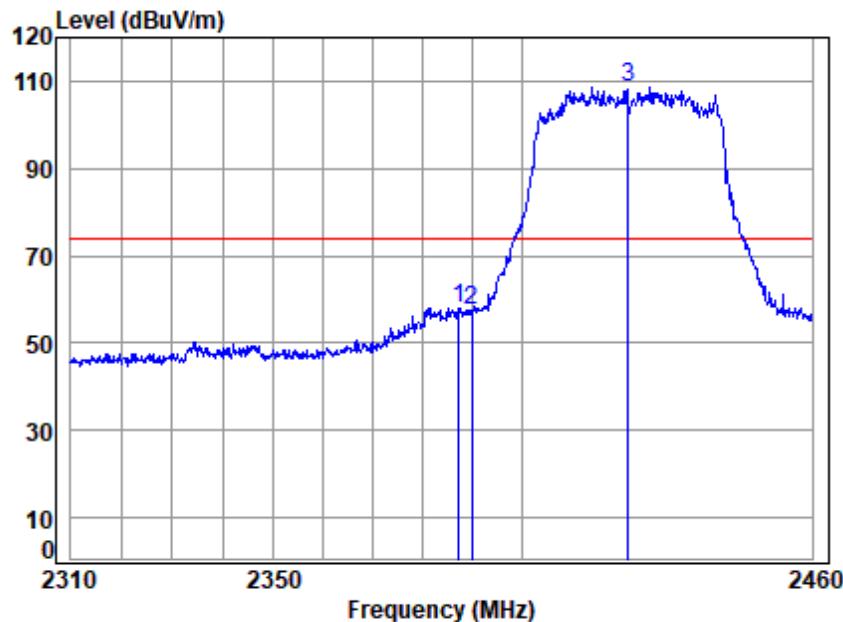
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 59 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2422 Band edge  
Note : 2.4G WIFI 11AX40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.2720	5.05	27.15	32.50	58.43	58.13	74.00	-15.87 peak
2	2390.0000	5.05	27.16	32.50	57.83	57.54	74.00	-16.46 peak
3	2422.0000	5.08	27.23	32.50	108.81	108.62	74.00	34.62 peak

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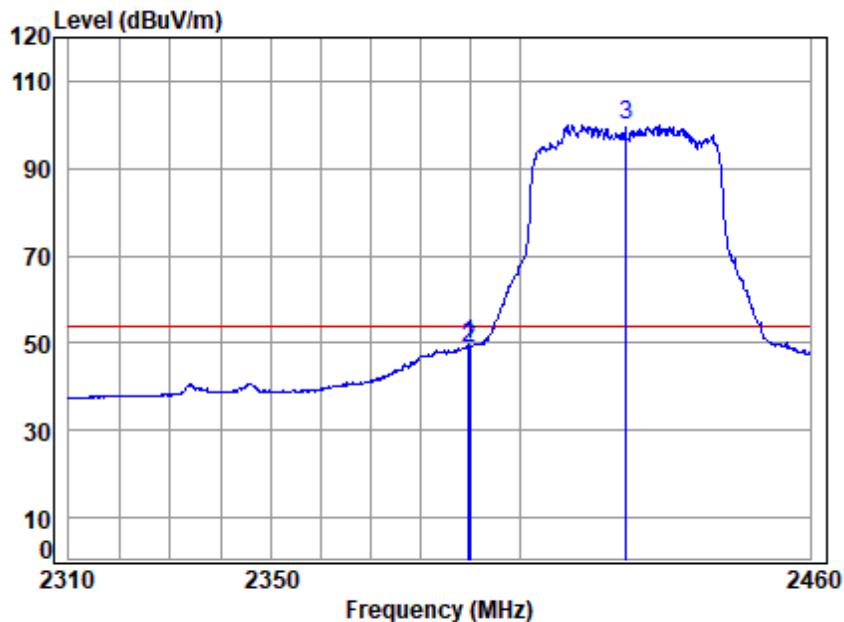
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 60 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2422 Band edge  
Note : 2.4G WIFI 11AX40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 2389.6770	5.05	27.16	32.50	49.81	49.52	54.00	-4.48	Average
2 2390.0000	5.05	27.16	32.50	49.32	49.03	54.00	-4.97	Average
3 2422.0000	5.08	27.23	32.50	100.01	99.82	54.00	45.82	Average



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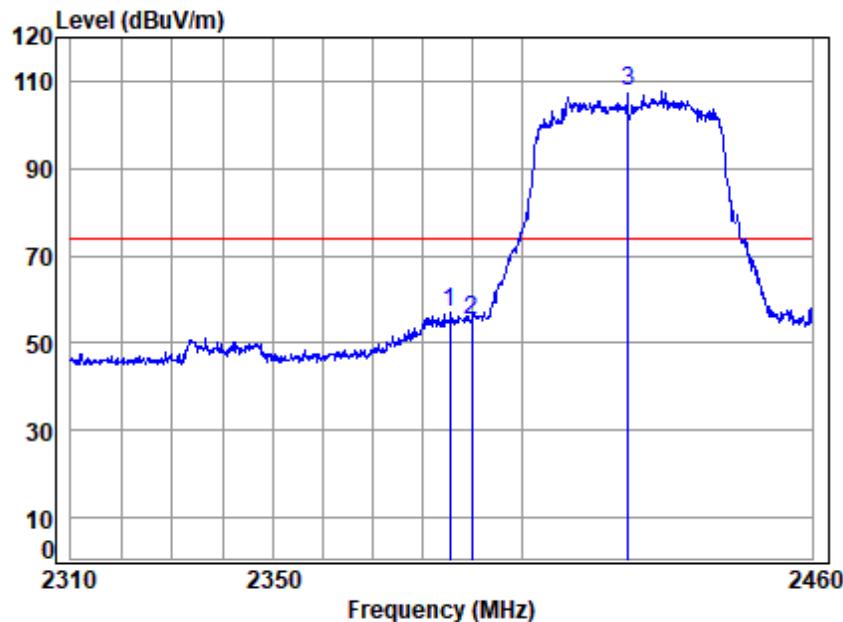
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 61 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2422 Band edge  
Note : 2.4G WIFI 11AX40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 2385.6210	5.05	27.15	32.50	57.36	57.06	74.00	-16.94	Peak
2 2390.0000	5.05	27.16	32.50	55.69	55.40	74.00	-18.60	Peak
3 2422.0000	5.08	27.23	32.50	108.02	107.83	74.00	33.83	Peak



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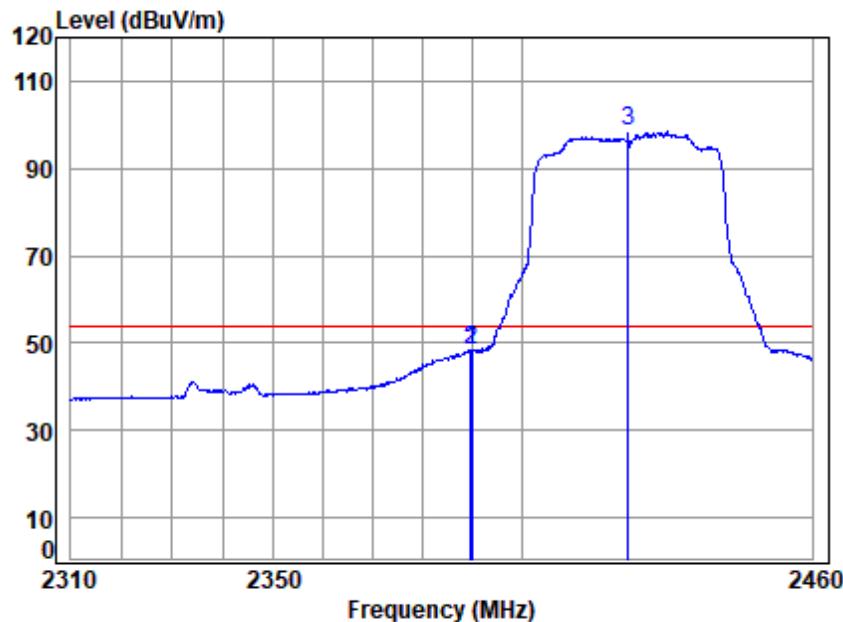
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 62 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2422 Band edge  
Note : 2.4G WIFI 11AX40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.6770	5.05	27.16	32.50	48.71	48.42	54.00	-5.58 Average
2	2390.0000	5.05	27.16	32.50	48.44	48.15	54.00	-5.85 Average
3	2422.0000	5.08	27.23	32.50	98.58	98.39	54.00	44.39 Average



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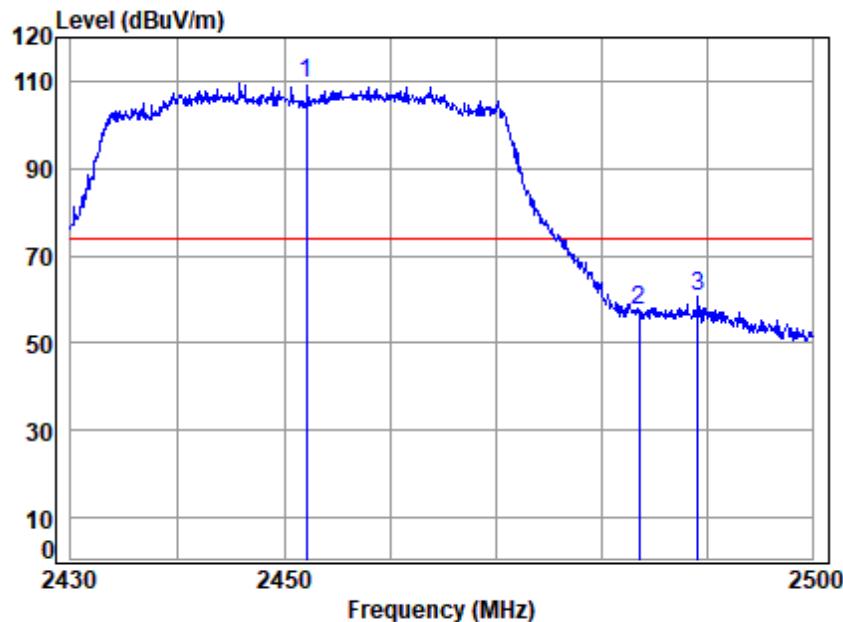
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 63 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2452 Band edge  
Note : 2.4G WIFI 11AX40

1	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2452.0000	5.10	27.30	32.50	109.43	109.33	74.00	35.33 peak
2	2483.5000	5.12	27.36	32.50	57.40	57.38	74.00	-16.62 peak
3	2489.0900	5.12	27.38	32.50	60.83	60.83	74.00	-13.17 peak

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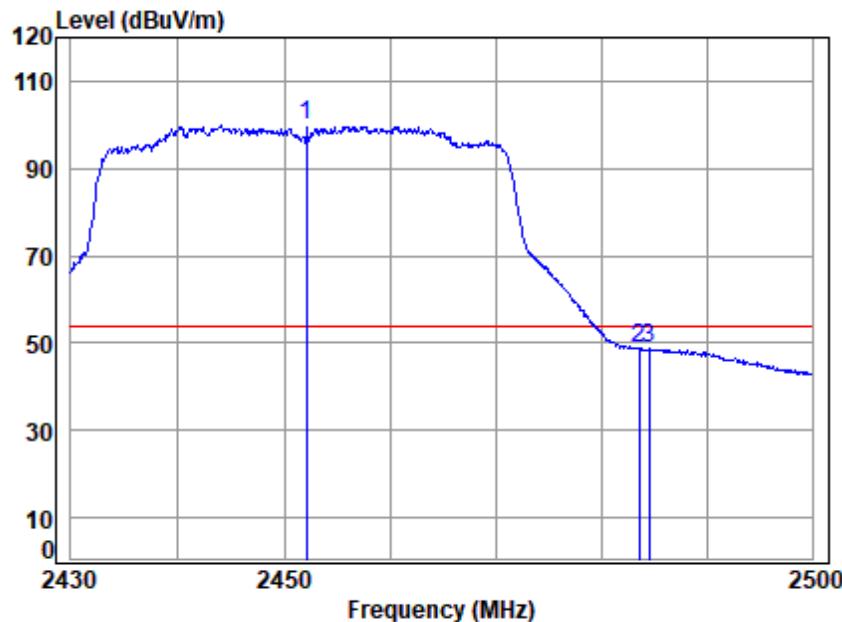
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 64 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2452 Band edge  
Note : 2.4G WIFI 11AX40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 2452.0000	5.10	27.30	32.50	99.89	99.79	54.00	45.79	Average
2 2483.5000	5.12	27.36	32.50	48.85	48.83	54.00	-5.17	Average
3 2484.4290	5.12	27.37	32.50	48.66	48.65	54.00	-5.35	Average

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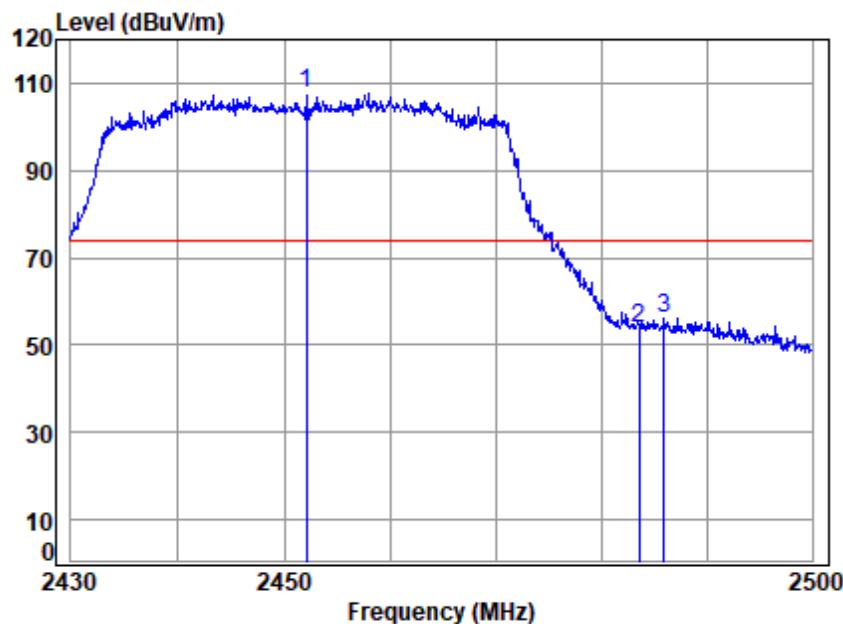
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 65 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2452 Band edge  
Note : 2.4G WIFI 11AX40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
MHz									
1 2452.0000	5.10	27.30	32.50	107.67	107.57	74.00	33.57	Peak	
2 2483.5000	5.12	27.36	32.50	54.09	54.07	74.00	-19.93	Peak	
3 2485.8410	5.12	27.37	32.50	56.17	56.16	74.00	-17.84	Peak	

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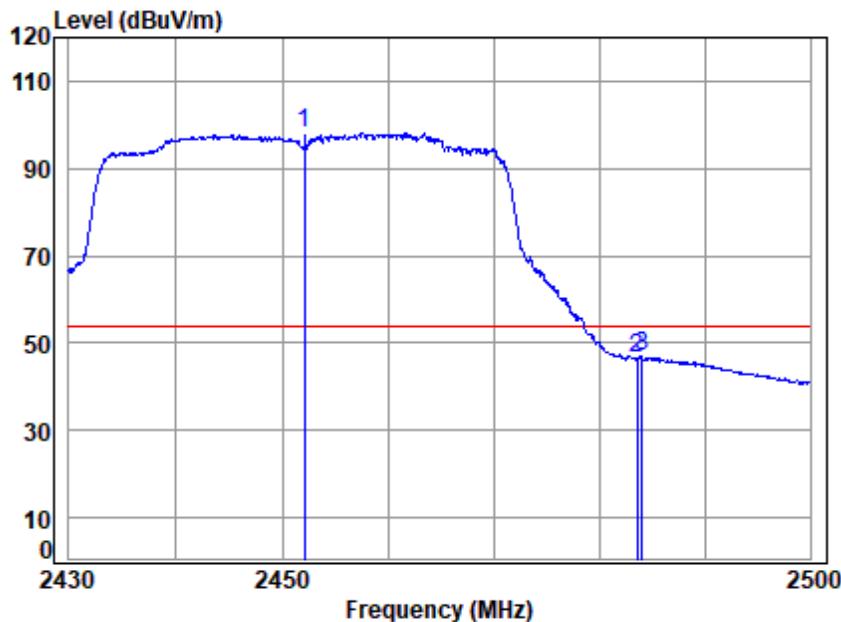
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Report No.: FYCR220900037503

Page: 66 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2452 Band edge  
Note : 2.4G WIFI 11AX40

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2452.0000	5.10	27.30	32.50	98.31	98.21	54.00	44.21 Average
2	2483.5000	5.12	27.36	32.50	46.54	46.52	54.00	-7.48 Average
3	2483.9350	5.12	27.37	32.50	46.81	46.80	54.00	-7.20 Average



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### 7.3 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

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

Operating Environment:

Temperature: 23.2 °C

Humidity: 52.6 % RH

Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.
Final test	07	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.

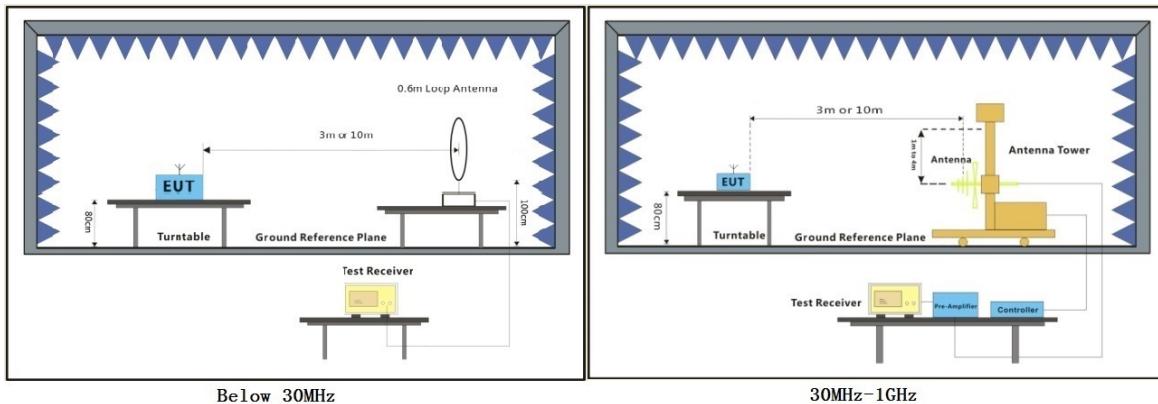
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**7.3.3 Test Setup Diagram****7.3.4 Measurement Procedure and Data**

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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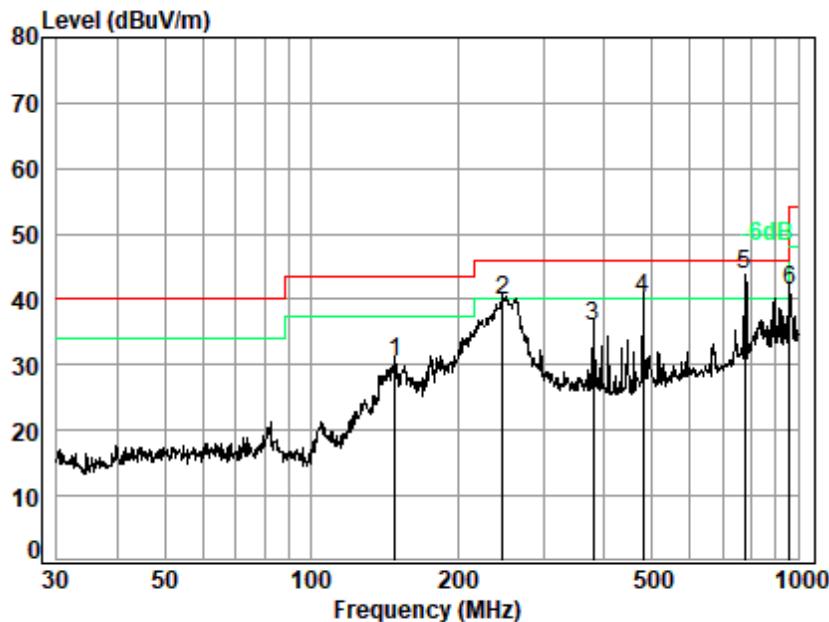
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 69 of 92

Test Mode: 07; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT  
Mode : 07

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
1 148.9625	0.91	17.43	25.53	37.58	30.39	43.50	-13.11	QP
2 247.6819	0.84	16.72	25.43	47.70	39.83	46.00	-6.17	QP
3 379.9142	1.62	20.26	25.45	39.55	35.98	46.00	-10.02	QP
4 480.5276	1.43	22.16	25.49	41.96	40.06	46.00	-5.94	QP
5 776.8778	1.95	26.75	24.28	39.36	43.78	46.00	-2.22	QP
6 962.1623	2.36	29.29	24.03	33.81	41.43	54.00	-12.57	QP

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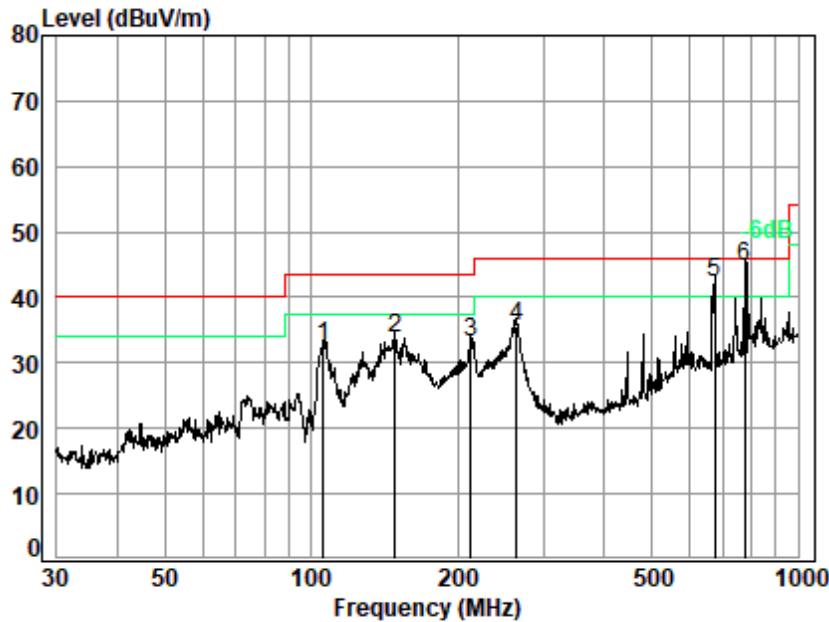
# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220900037503

Page: 70 of 92

Test Mode: 07; Polarity: Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00375AT  
 Mode : 07

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
								dB	dB
1	106.0126	0.91	15.14	25.59	41.98	32.44	43.50	-11.06	QP
2	148.9625	0.91	17.43	25.53	41.05	33.86	43.50	-9.64	QP
3	213.0151	0.74	15.62	25.46	42.13	33.03	43.50	-10.47	QP
4	263.8190	0.90	16.95	25.42	43.24	35.67	46.00	-10.33	QP
5	672.8445	1.92	25.51	24.68	39.39	42.14	46.00	-3.86	QP
6	776.8778	1.95	26.75	24.28	40.36	44.78	46.00	-1.22	QP

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# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220900037503

Page: 71 of 92

## 7.4 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 52.1 % RH Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11ax(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40); Only the data of worst case is recorded in the report.
Final test	07	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 @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.

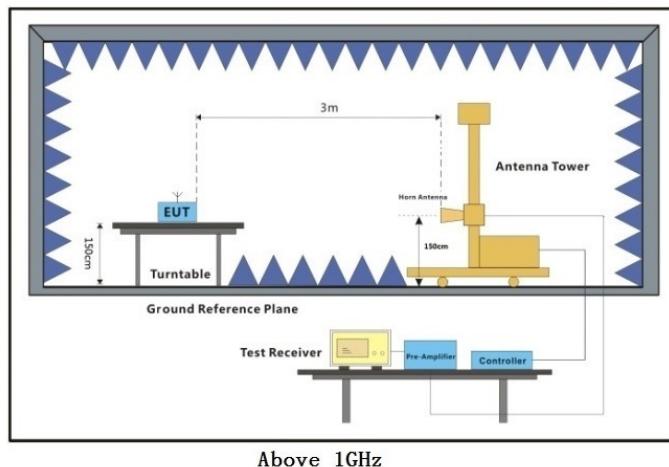
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**7.4.3 Test Setup Diagram**

Above 1GHz

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**7.4.4 Measurement Procedure and Data**

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For WLAN radiated test, according to the conducted power and verify test the SISO & MIMO mode, the worst-case is SISO mode for 802.11b/g, MIMO mode for 802.11n/ax, therefore, all final test are performed in SISO & MIMO mode and reported.
6. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
7. All modes and channels have been tested, only record the worst test result.



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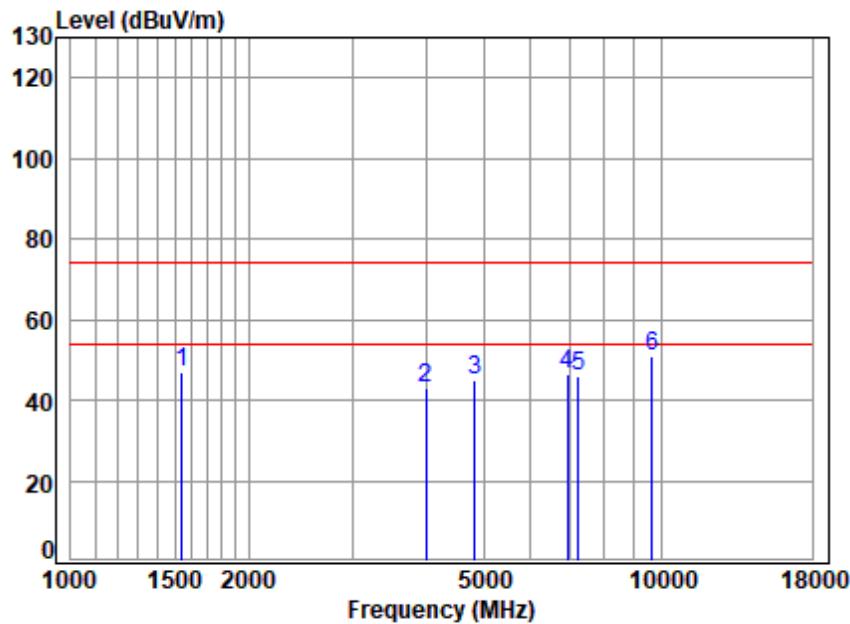
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 74 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 TX RSE  
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								dB	
1 1542.7330	3.87	24.64	52.88	71.22	46.85	74.00	-27.15	peak	
2 3992.7810	7.48	29.49	52.80	58.73	42.90	74.00	-31.10	peak	
3 4824.0000	8.02	30.99	53.05	59.07	45.03	74.00	-28.97	peak	
4 6934.7780	8.13	35.65	53.46	56.33	46.65	74.00	-27.35	peak	
5 7236.0000	8.31	36.09	53.52	55.13	46.01	74.00	-27.99	peak	
6 9648.0000	11.38	37.62	53.54	55.37	50.83	74.00	-23.17	peak	

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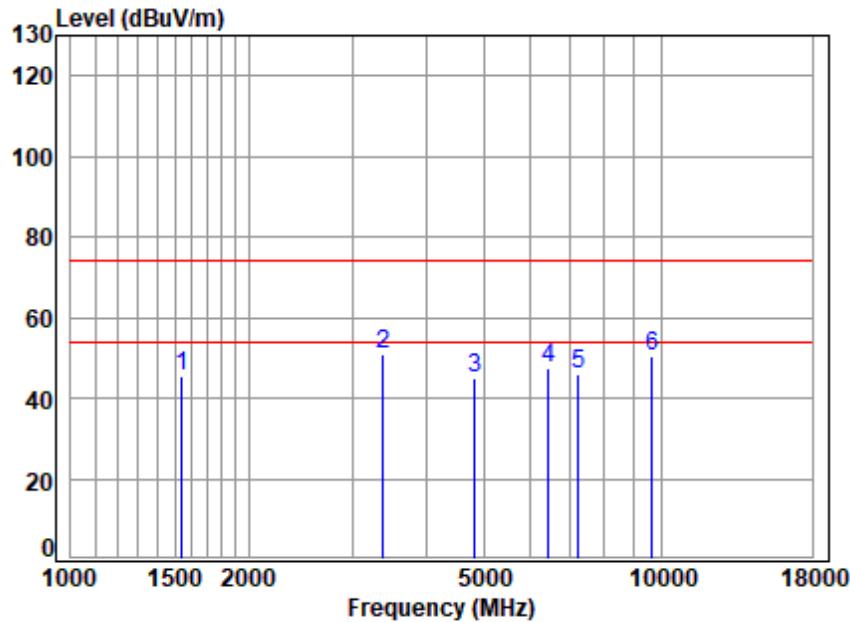
# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220900037503

Page: 75 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00375AT/00376AT  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1542.7330	3.87	24.64	52.88	69.74	45.37	74.00	-28.63	peak
2	3386.2970	6.72	28.68	52.97	68.31	50.74	74.00	-23.26	peak
3	4824.0000	8.02	30.99	53.05	59.04	45.00	74.00	-29.00	peak
4	6451.3530	7.69	34.39	53.13	58.50	47.45	74.00	-26.55	peak
5	7236.0000	8.31	36.09	53.52	54.91	45.79	74.00	-28.21	peak
6	9648.0000	11.38	37.62	53.54	55.08	50.54	74.00	-23.46	peak

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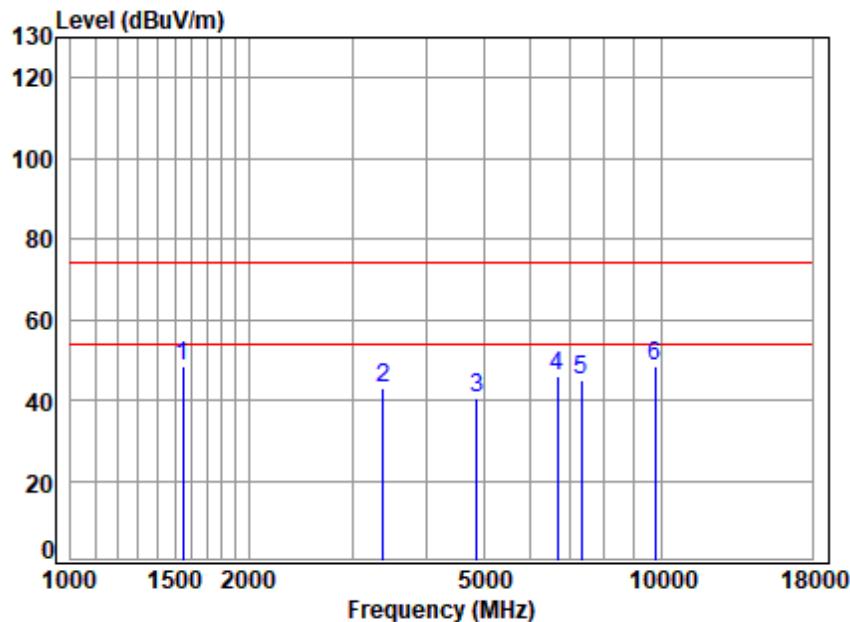
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 76 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2437 TX RSE  
Note : 2.4G WIFI 11B

1	2	3	4	5	6	Cable	Ant	Preamp	Read	Limit	Over	Remark
						Freq	Loss	Factor	Factor	Level	Level	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m				dB		
1547.1990	3.88	24.65	52.88	72.57	48.22	74.00	-25.78	peak				
3386.2970	6.72	28.68	52.97	60.69	43.12	74.00	-30.88	peak				
4874.0000	8.10	31.11	53.07	54.18	40.32	74.00	-33.68	peak				
6659.7630	7.86	34.99	53.27	56.62	46.20	74.00	-27.80	peak				
7311.0000	8.34	36.18	53.53	54.13	45.12	74.00	-28.88	peak				
9748.0000	11.30	37.84	53.44	52.66	48.36	74.00	-25.64	peak				

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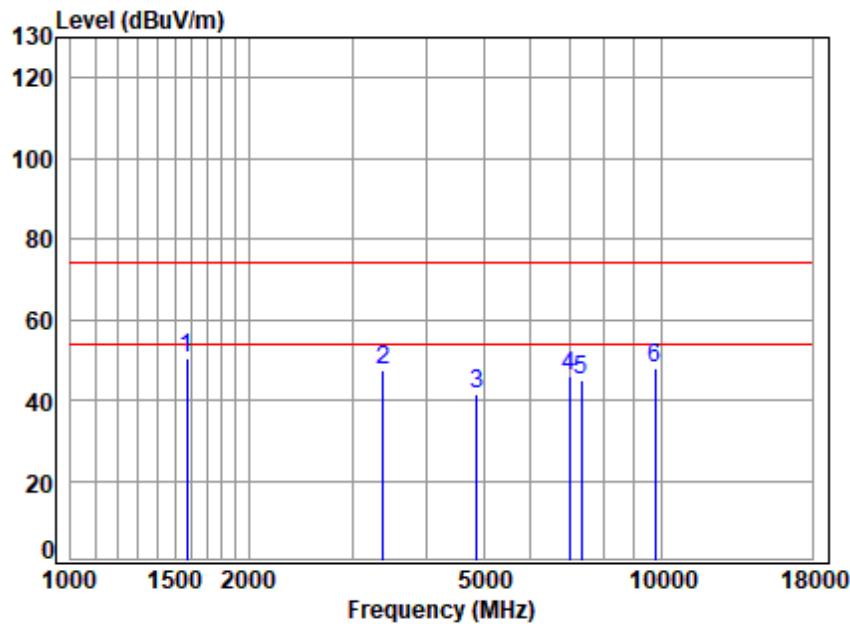
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 77 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2437 TX RSE  
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB/m	dB
1	1574.2650	3.93	24.73	52.89	74.80	50.57	74.00	-23.43	peak
2	3386.2970	6.72	28.68	52.97	65.25	47.68	74.00	-26.32	peak
3	4874.0000	8.10	31.11	53.07	55.33	41.47	74.00	-32.53	peak
4	6995.1720	8.19	35.79	53.50	55.37	45.85	74.00	-28.15	peak
5	7311.0000	8.34	36.18	53.53	54.15	45.14	74.00	-28.86	peak
6	9748.0000	11.30	37.84	53.44	52.39	48.09	74.00	-25.91	peak

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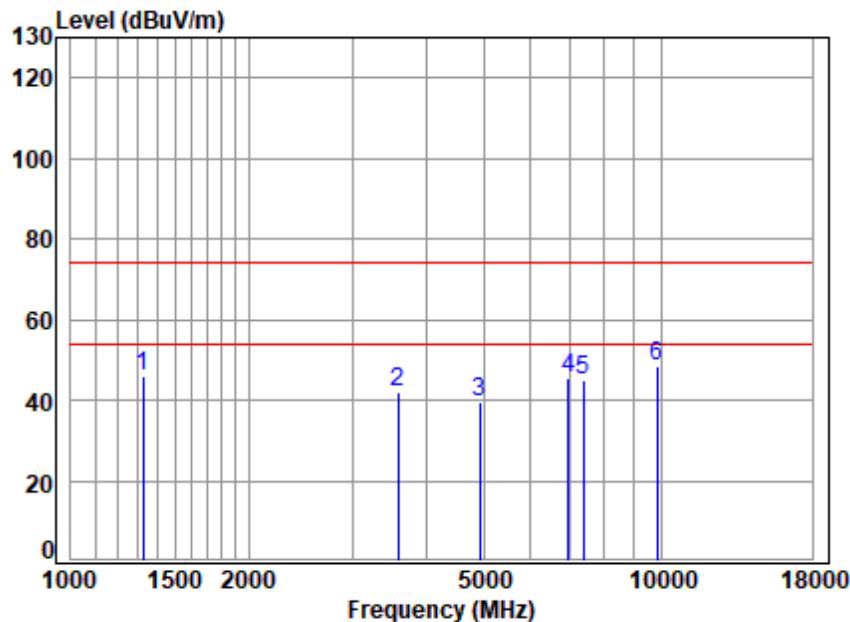
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 78 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 TX RSE  
Note : 2.4G WIFI 11B

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit	Over	Remark
				Level	Level	Line	
MHz	dB	dB/m		dBuV	dBuV/m	dBuV/m	dB
1 1327.4460	3.43	24.23	52.75	71.27	46.18	74.00	-27.82 peak
2 3577.4630	7.07	28.83	52.92	59.06	42.04	74.00	-31.96 peak
3 4924.0000	8.18	31.23	53.08	53.12	39.45	74.00	-34.55 peak
4 6954.8520	8.15	35.70	53.47	55.14	45.52	74.00	-28.48 peak
5 7386.0000	8.38	36.27	53.54	53.77	44.88	74.00	-29.12 peak
6 9848.0000	11.23	38.07	53.35	52.52	48.47	74.00	-25.53 peak

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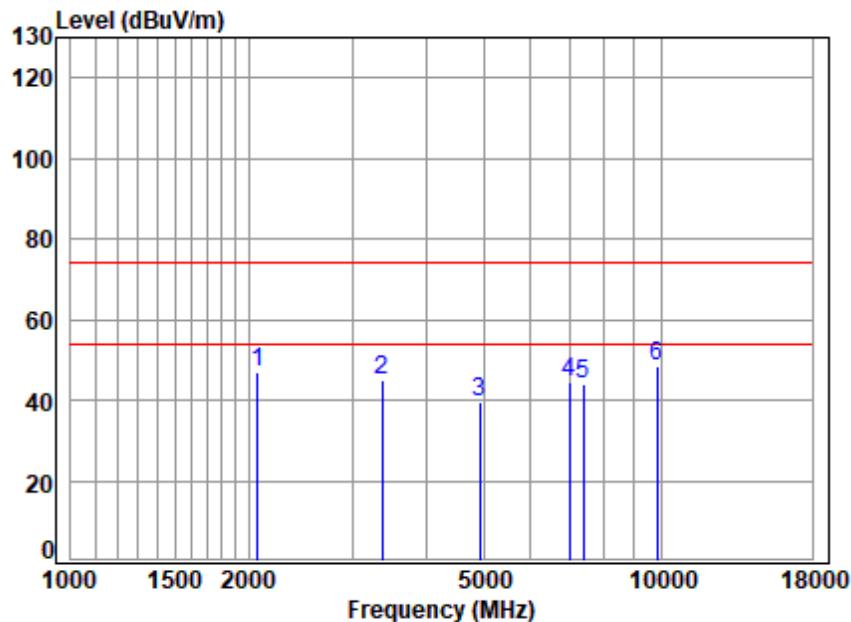
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 79 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 TX RSE  
Note : 2.4G WIFI 11B

1	2	3	4	45	6	Cable	Ant	Preamp	Read	Limit	Over	Remark
						Freq	Loss	Factor	Factor	Level	Level	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m				dB		
2071.7080	4.81	26.39	53.10	68.62	46.72	74.00	-27.28	Peak				
3366.7780	6.67	28.67	52.98	62.86	45.22	74.00	-28.78	peak				
4924.0000	8.18	31.23	53.08	53.01	39.34	74.00	-34.66	peak				
6995.1720	8.19	35.79	53.50	54.21	44.69	74.00	-29.31	peak				
7386.0000	8.38	36.27	53.54	52.95	44.06	74.00	-29.94	peak				
9848.0000	11.23	38.07	53.35	52.39	48.34	74.00	-25.66	peak				

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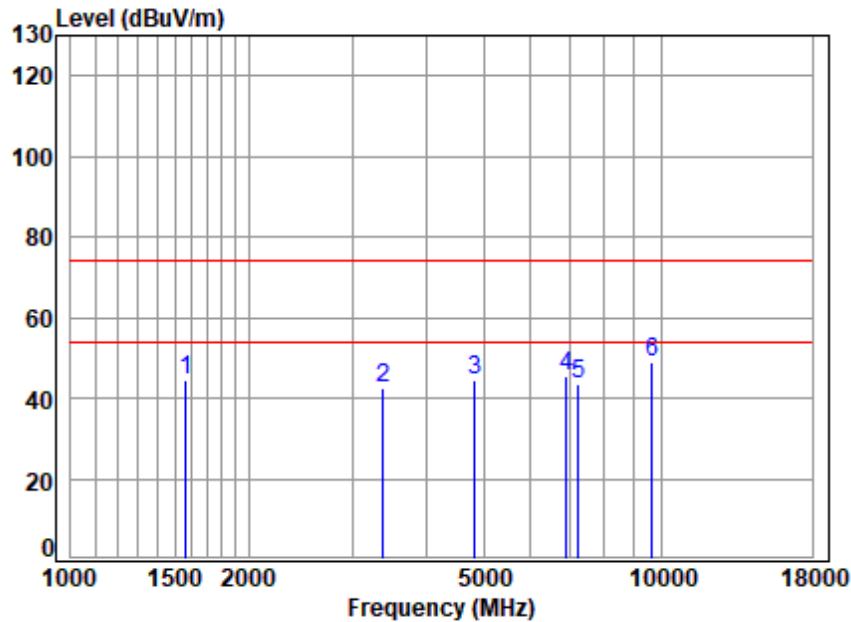
# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220900037503

Page: 80 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00375AT/00376AT  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1565.1910	3.91	24.70	52.89	68.79	44.51	74.00	-29.49 peak
2	3386.2970	6.72	28.68	52.97	60.13	42.56	74.00	-31.44 peak
3	4824.0000	8.02	30.99	53.05	58.47	44.43	74.00	-29.57 peak
4	6914.7630	8.11	35.60	53.44	55.07	45.34	74.00	-28.66 peak
5	7236.0000	8.31	36.09	53.52	52.84	43.72	74.00	-30.28 peak
6	9648.0000	11.38	37.62	53.54	53.26	48.72	74.00	-25.28 peak

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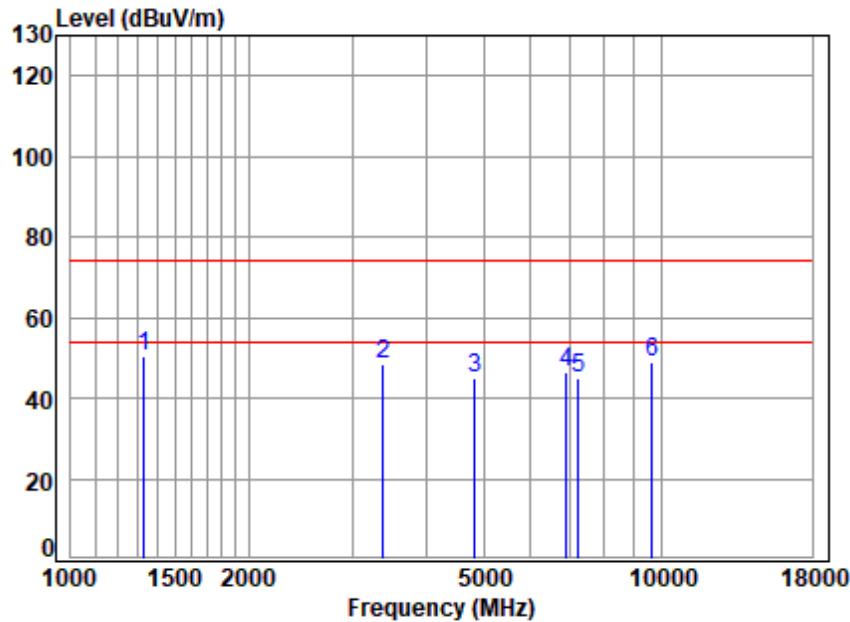
# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220900037503

Page: 81 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00375AT/00376AT  
 Mode : 2412 TX RSE  
 Note : 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit	Over	Remark	
				Level	Level	Line		
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 1331.2880	3.44	24.23	52.75	75.34	50.26	74.00	-23.74	Peak
2 3386.2970	6.72	28.68	52.97	66.18	48.61	74.00	-25.39	peak
3 4824.0000	8.02	30.99	53.05	59.07	45.03	74.00	-28.97	peak
4 6914.7630	8.11	35.60	53.44	56.20	46.47	74.00	-27.53	peak
5 7236.0000	8.31	36.09	53.52	54.07	44.95	74.00	-29.05	peak
6 9648.0000	11.38	37.62	53.54	53.54	49.00	74.00	-25.00	peak

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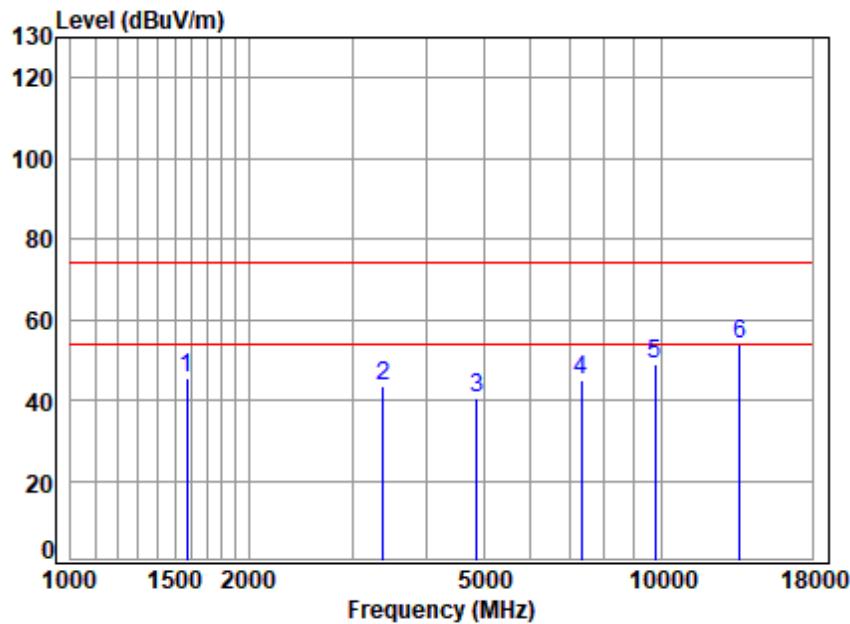
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 82 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2437 TX RSE  
Note : 2.4G WIFI 11G

1	2	3	4	5	6	Cable	Ant	Preamp	Read	Limit	Over	Remark
						Freq	Loss	Factor	Factor	Level	Level	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m				dB		
1574.2650	3.93	24.73	52.89	69.62	45.39	74.00	-28.61	peak				
3386.2970	6.72	28.68	52.97	61.15	43.58	74.00	-30.42	peak				
4874.0000	8.10	31.11	53.07	54.34	40.48	74.00	-33.52	peak				
7311.0000	8.34	36.18	53.53	53.97	44.96	74.00	-29.04	peak				
9748.0000	11.30	37.84	53.44	53.03	48.73	74.00	-25.27	peak				
13559.880	12.02	40.72	53.97	54.98	53.75	74.00	-20.25	Peak				

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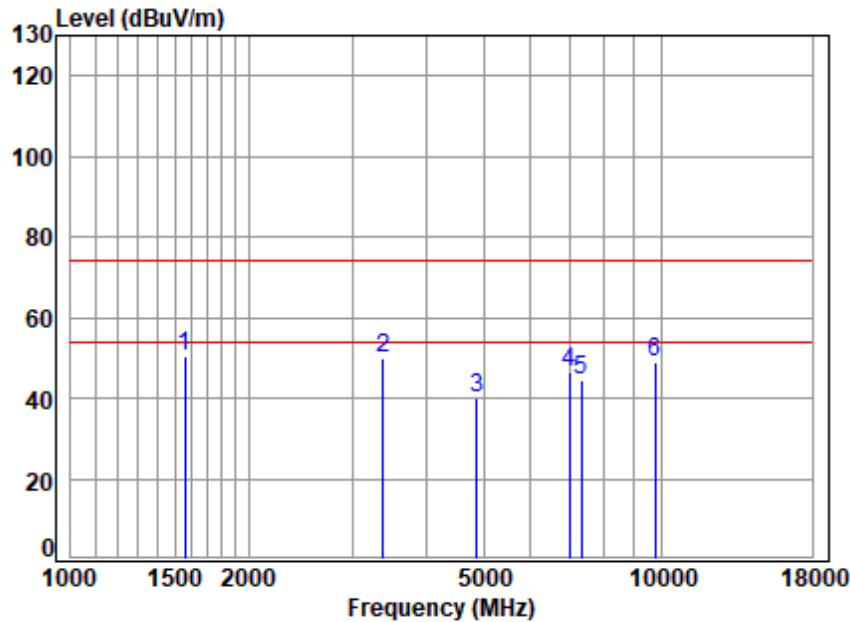
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 83 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2437 TX RSE  
Note : 2.4G WIFI 11G

1	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
		MHz	Loss	Factor	Level	Level	Line		
			dB	dB/m		dBuV	dBuV/m	dBuV/m	dB
1	1560.6730	3.91	24.69	52.89	74.67	50.38	74.00	-23.62	peak
2	3386.2970	6.72	28.68	52.97	67.54	49.97	74.00	-24.03	peak
3	4874.0000	8.10	31.11	53.07	53.74	39.88	74.00	-34.12	peak
4	6995.1720	8.19	35.79	53.50	55.78	46.26	74.00	-27.74	peak
5	7311.0000	8.34	36.18	53.53	53.57	44.56	74.00	-29.44	peak
6	9748.0000	11.30	37.84	53.44	53.09	48.79	74.00	-25.21	peak

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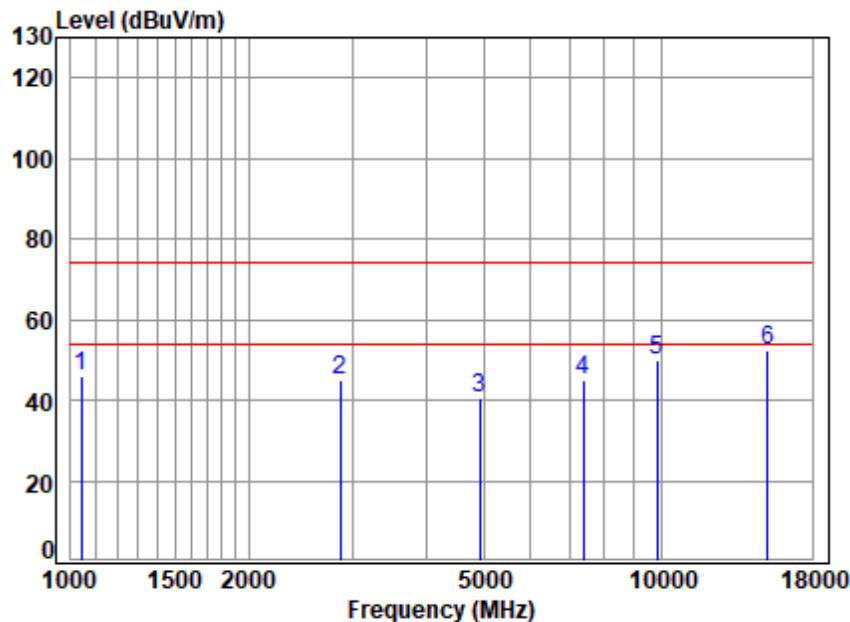
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 84 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 TX RSE  
Note : 2.4G WIFI 11G

1	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1041.2950	2.75	24.14	52.54	71.83	46.18	74.00	-27.82 Peak
2	2863.6450	5.57	28.29	53.10	64.12	44.88	74.00	-29.12 Peak
3	4924.0000	8.18	31.23	53.08	54.20	40.53	74.00	-33.47 peak
4	7386.0000	8.38	36.27	53.54	54.04	45.15	74.00	-28.85 peak
5	9848.0000	11.23	38.07	53.35	54.04	49.99	74.00	-24.01 peak
6	15134.080	12.68	41.13	53.63	52.23	52.41	74.00	-21.59 Peak

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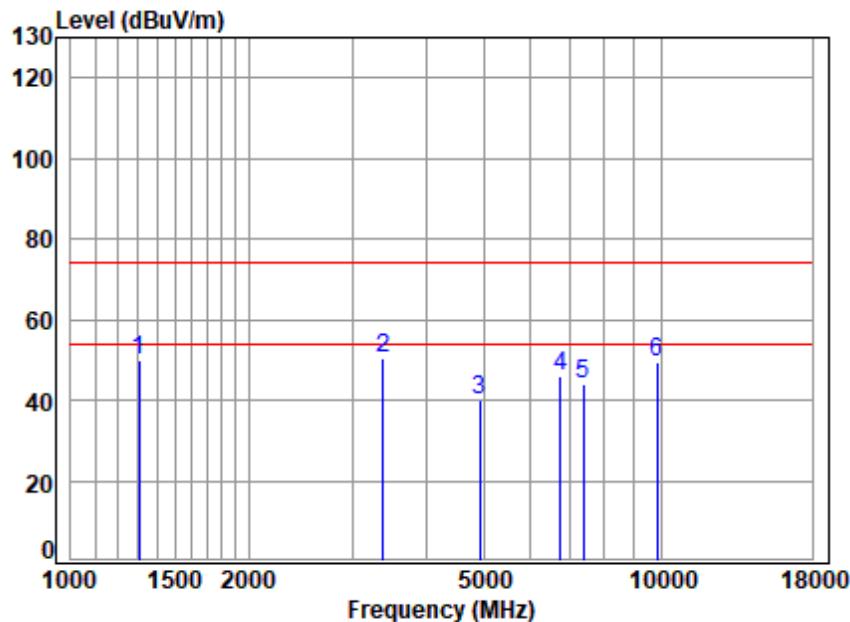
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Report No.: FYCR220900037503

Page: 85 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 TX RSE  
Note : 2.4G WIFI 11G

1	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		MHz	Loss	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1304.6230	3.38	24.25	52.73	75.07	49.97	74.00	-24.03 peak
2	3386.2970	6.72	28.68	52.97	67.85	50.28	74.00	-23.72 peak
3	4924.0000	8.18	31.23	53.08	53.66	39.99	74.00	-34.01 peak
4	6737.2070	7.94	35.18	53.33	56.33	46.12	74.00	-27.88 peak
5	7386.0000	8.38	36.27	53.54	52.66	43.77	74.00	-30.23 peak
6	9848.0000	11.23	38.07	53.35	53.45	49.40	74.00	-24.60 peak

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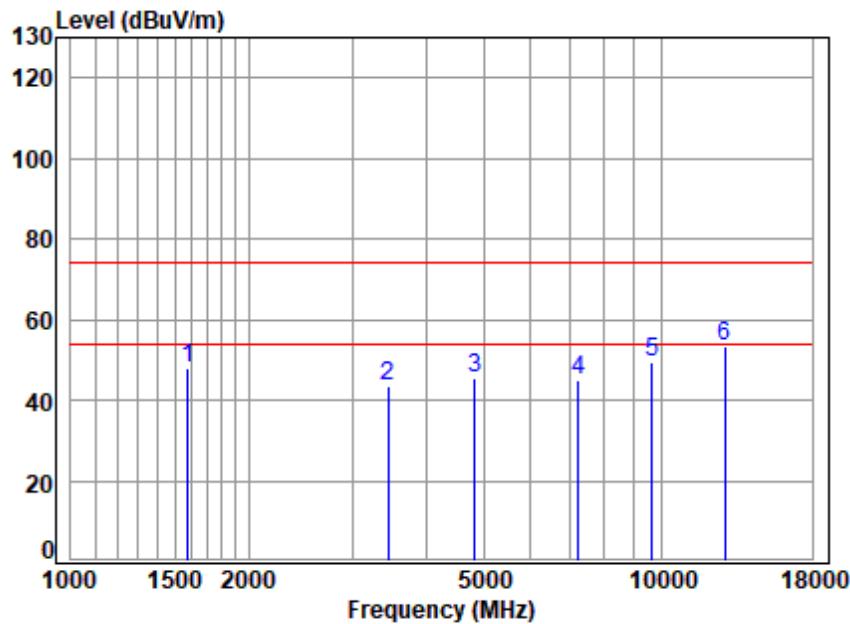
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 86 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2412 TX RSE  
Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit	Over	Remark	
				Level	Level	Line		
MHz	dB	dB/m		dB	dBuV	dBuV/m	dBuV/m	dB
1 1578.8220	3.94	24.74	52.90	72.13	47.91	74.00	-26.09	peak
2 3445.5350	6.86	28.69	52.96	60.99	43.58	74.00	-30.42	peak
3 4824.0000	8.02	30.99	53.05	59.70	45.66	74.00	-28.34	peak
4 7236.0000	8.31	36.09	53.52	54.23	45.11	74.00	-28.89	peak
5 9648.0000	11.38	37.62	53.54	53.74	49.20	74.00	-24.80	peak
6 12798.240	12.47	39.72	54.16	55.36	53.39	74.00	-20.61	Peak

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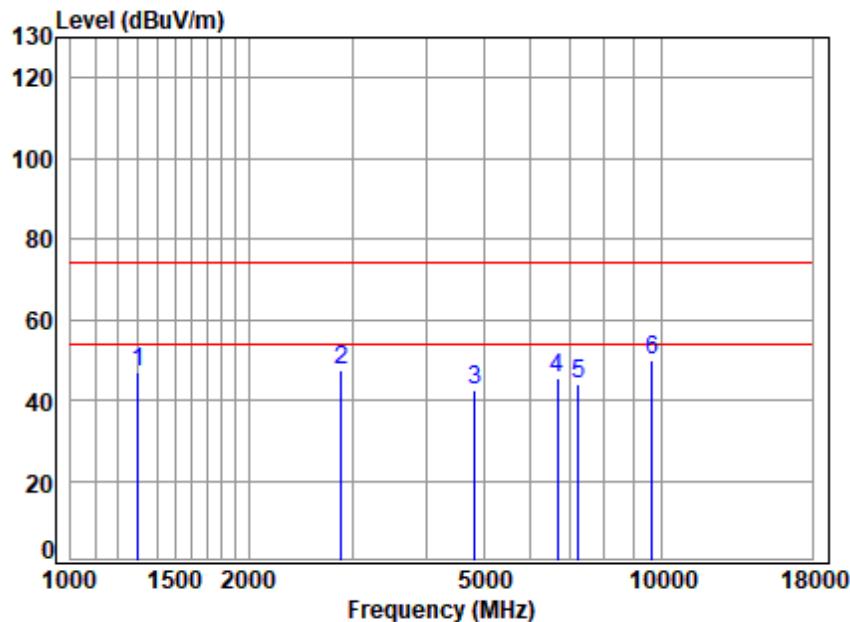
**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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

Report No.: FYCR220900037503

Page: 87 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2412 TX RSE  
Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1300.8580	3.37	24.25	52.73	72.21	47.10	74.00	-26.90	Peak
2 2871.9340	5.58	28.31	53.10	66.58	47.37	74.00	-26.63	Peak
3 4824.0000	8.02	30.99	53.05	56.57	42.53	74.00	-31.47	peak
4 6659.7630	7.86	34.99	53.27	55.85	45.43	74.00	-28.57	peak
5 7236.0000	8.31	36.09	53.52	52.88	43.76	74.00	-30.24	peak
6 9648.0000	11.38	37.62	53.54	54.46	49.92	74.00	-24.08	peak

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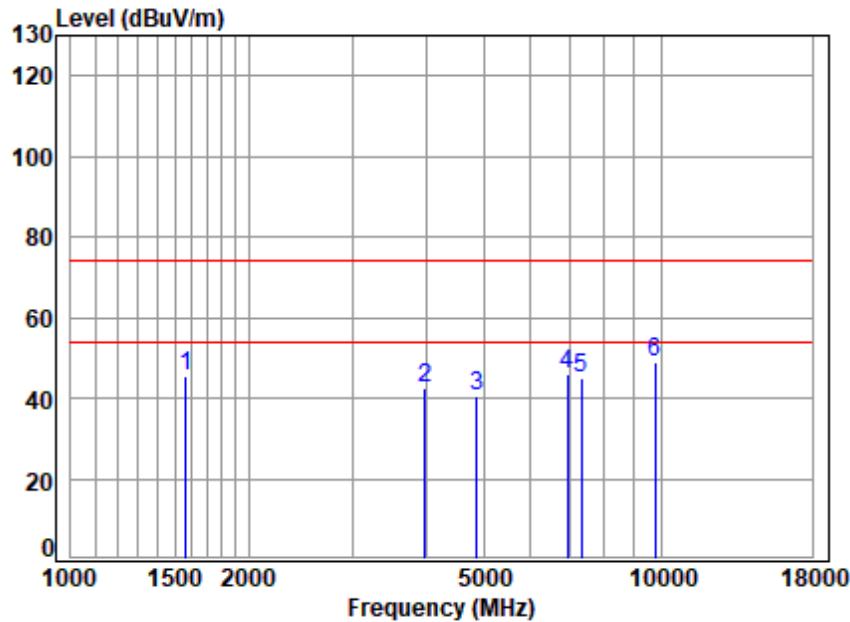
# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220900037503

Page: 88 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 00375AT/00376AT  
 Mode : 2437 TX RSE  
 Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1569.7210	3.92	24.71	52.89	69.67	45.41	74.00	-28.59	peak
2 3981.2570	7.47	29.47	52.80	58.27	42.41	74.00	-31.59	peak
3 4874.0000	8.10	31.11	53.07	54.54	40.68	74.00	-33.32	peak
4 6934.7780	8.13	35.65	53.46	55.89	46.21	74.00	-27.79	peak
5 7311.0000	8.34	36.18	53.53	54.07	45.06	74.00	-28.94	peak
6 9748.0000	11.30	37.84	53.44	53.05	48.75	74.00	-25.25	peak

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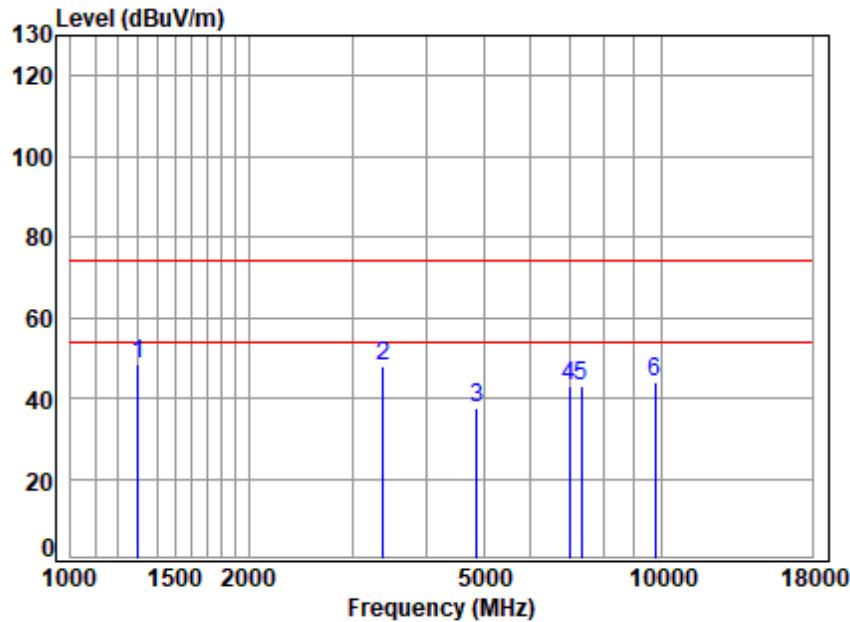
# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220900037503

Page: 89 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 00375AT/00376AT  
 Mode : 2437 TX RSE  
 Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
								dB/m	dB
1	1300.8580	3.37	24.25	52.73	73.45	48.34	74.00	-25.66	peak
2	3386.2970	6.72	28.68	52.97	65.54	47.97	74.00	-26.03	peak
3	4874.0000	8.10	31.11	53.07	51.45	37.59	74.00	-36.41	peak
4	6974.9820	8.17	35.74	53.48	52.70	43.13	74.00	-30.87	peak
5	7311.0000	8.34	36.18	53.53	51.98	42.97	74.00	-31.03	peak
6	9748.0000	11.30	37.84	53.44	48.43	44.13	74.00	-29.87	peak

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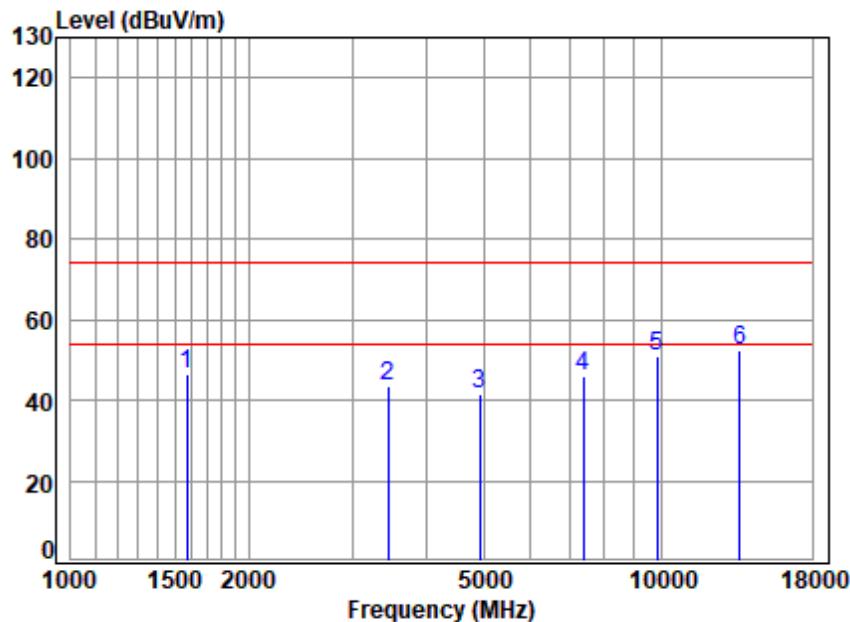
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 90 of 92

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00375AT/00376AT  
Mode : 2462 TX RSE  
Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1574.2650	3.93	24.73	52.89	70.75	46.52	74.00	-27.48	peak
2 3445.5350	6.86	28.69	52.96	60.91	43.50	74.00	-30.50	peak
3 4924.0000	8.18	31.23	53.08	55.03	41.36	74.00	-32.64	peak
4 7386.0000	8.38	36.27	53.54	54.96	46.07	74.00	-27.93	peak
5 9848.0000	11.23	38.07	53.35	54.76	50.71	74.00	-23.29	peak
6 13599.130	11.97	40.79	53.96	53.80	52.60	74.00	-21.40	Peak

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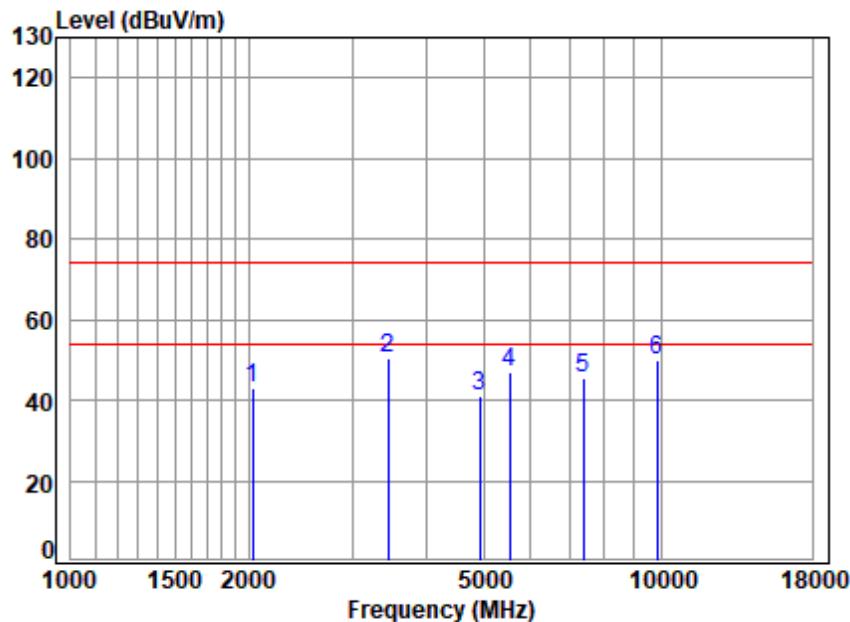
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037503

Page: 91 of 92

Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00375AT/00376AT  
Mode : 2462 TX RSE  
Note : 2.4G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 2036.0900	4.78	26.30	53.10	65.00	42.98	74.00	-31.02	Peak
2 3445.5350	6.86	28.69	52.96	67.68	50.27	74.00	-23.73	peak
3 4924.0000	8.18	31.23	53.08	54.50	40.83	74.00	-33.17	peak
4 5535.0470	8.22	32.59	52.93	58.86	46.74	74.00	-27.26	peak
5 7386.0000	8.38	36.27	53.54	54.29	45.40	74.00	-28.60	peak
6 9848.0000	11.23	38.07	53.35	53.89	49.84	74.00	-24.16	peak

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## 8 Test Setup Photo

Refer to Test Setup Photo for FYCR2209000375AT

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2209000375AT

- End of the Report -



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