





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

Report No.: FYCR221000040004

Page: 1 of 125

# TEST REPORT

Application No.: FYCR2210000400AT

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

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

District, Beijing 100195, China

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

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

District, Beijing 100195, China

**Equipment Under Test (EUT):** 

**EUT Name:** Android POS Terminal

Model No.: A90 Pro

FCC ID: OWLA90-PRO

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

**Date of Receipt:** 2022-10-14

**Date of Test:** 2022-10-19 to 2022-11-26

Date of Issue: 2023-02-20

Test Result: Pass\*

Winkey Wang
Winkey Wang
EMC Technical Manager



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



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

Report No.: FYCR221000040004

Page: 2 of 125

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2023-02-20		Original			

Authorized for issue by:			
	Tree Zhan		
	Tree Zhan/Project Engineer	-	
	WinkeyWarg		
	Winkey Wang/Reviewer	-	



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

Report No.: FYCR221000040004

Page: 3 of 125

# 2 Test Summary

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

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			
Conducted Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass			
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass			
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass			
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass			
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass			
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Duty Cycle		ANSI C63.10 (2013) Section 11.6	ANSI C63.10 (2013) Section 11.6	Pass			



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

Report No.: FYCR221000040004

Page: 4 of 125

### 3 Contents

			Page
1	COV	/ER PAGE	1
2	TES	T SUMMARY	3
3	CON	ITENTS	4
4	GEN	IERAL INFORMATION	6
	4.1	DETAILS OF E.U.T.	6
	4.2	DESCRIPTION OF SUPPORT UNITS	6
	4.3	MEASUREMENT UNCERTAINTY	7
	4.4	TEST LOCATION	
	4.5	TEST FACILITY	
	4.6	DEVIATION FROM STANDARDS	
	4.7	ABNORMALITIES FROM STANDARD CONDITIONS	3
5	EQU	IIPMENT LIST	g
_			
6		DIO SPECTRUM TECHNICAL REQUIREMENT	
	6.1	ANTENNA REQUIREMENT	
	6.1.1		
	6.1.2	2 Conclusion	12
7	RAD	DIO SPECTRUM MATTER TEST RESULTS	13
	7.1	CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	13
	7.1.1	1 E.U.T. Operation	13
	7.1.2	2 Test Mode Description	13
	7.1.3		
	7.1.4		
	7.2	CONDUCTED OUTPUT POWER	
	7.2.1	'	
	7.2.2		
	7.2.3	, 5	
	7.2.4	4 Measurement Procedure and Data MINIMUM 6DB BANDWIDTH	
	7.3 7.3.1		
		2 Test Mode Description	
	7.3.2	,	
	7.3.4	· · ·	
	7.3	Power Spectrum Density	
	7.4.1		
	7.4.2	•	
	7.4.3	•	
	7.4.4	· · ·	
		CONDUCTED BAND EDGES MEASUREMENT	



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

Report No.: FYCR221000040004

Page: 5 of 125

	7.5.1	E.U.T. Operation	21
	7.5.2	Test Mode Description	21
	7.5.3	Test Setup Diagram	22
	7.5.4	Measurement Procedure and Data	22
7.	6 C	ONDUCTED SPURIOUS EMISSIONS	23
	7.6.1	E.U.T. Operation	23
	7.6.2	Test Mode Description	23
	7.6.3	Test Setup Diagram	24
	7.6.4	Measurement Procedure and Data	24
7.	7 R	ADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	25
	7.7.1	E.U.T. Operation	25
	7.7.2	Test Mode Description	26
	7.7.3	Test Setup Diagram	26
	7.7.4	Measurement Procedure and Data	27
7.	8 R/	ADIATED SPURIOUS EMISSIONS BELOW 1GHZ	52
	7.8.1	E.U.T. Operation	52
	7.8.2	Test Mode Description	52
	7.8.3	Test Setup Diagram	53
	7.8.4	Measurement Procedure and Data	53
7.	9 R	ADIATED SPURIOUS EMISSIONS ABOVE 1GHZ	56
	7.9.1	E.U.T. Operation	
	7.9.2	Test Mode Description	56
	7.9.3	Test Setup Diagram	57
	7.9.4	Measurement Procedure and Data	58
7.	10 D	JTY CYCLE	77
	7.10.1	E.U.T. Operation	77
	7.10.2	Test Mode Description	
	7.10.3	Test Setup Diagram	
	7.10.4	Measurement Procedure and Data	77
	TEST S	SETUP PHOTO	78
	EUT C	ONSTRUCTIONAL DETAILS (EUT PHOTOS)	78
n			
U	AFFEN	DIX	19

8

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

Report No.: FYCR221000040004

Page: 6 of 125

### 4 General Information

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

Power supply:	DC3.6V by li-ion battery(5200mAh)
	Recharge by AC/DC power adapter
	Adapter M/N:SW-0983
	Adapter input: AC100/240V, 50/60Hz, 0.5A
	Adapter output: DC5V/2A
Cable(s):	USB cable: 1.5m shielded cable without ferrite core
Operation Fraguency	802.11b/g/n(HT20): 2412MHz to 2462MHz
Operation Frequency:	802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
Modulation Type:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Number of Charmers.	802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	3.93dBi

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

#### 4.2 Description of Support Units

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



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

Report No.: FYCR221000040004

Page: 7 of 125

### 4.3 Measurement Uncertainty

7	
Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Conducted Output Power	± 0.8dB
Minimum 6dB Bandwidth	± 0.3%
Power Spectrum Density	± 0.4dB
Conducted Band Edges Measurement	± 2.7dB
Conducted Spurious Emissions	± 2.7dB
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)
Duty Cycle	± 0.3%



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

Report No.: FYCR221000040004

Page: 8 of 125

#### 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





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

Report No.: FYCR221000040004

Page: 9 of 125

# 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	
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11	
Coaxial Cable	CCS	N/A	SEM033-02	2022/5/16	2023/5/15	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	

Conducted Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Minimum 6dB Bandwidth									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A				

Power Spectrum Density									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11				



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

Report No.: FYCR221000040004

Page: 10 of 125

Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
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Conducted Band Edges Measurement									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11				
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A				

Conducted Spurious Emissions								
Equipment	Cal Date	Cal Due Date						
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2022/7/12	2023/7/11			
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A			

Radiated Emissions which fall in the restricted bands									
Equipment	Equipment Manufacturer Model No. Inventory No.								
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.	ems 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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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 11 of 125

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			
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25			
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			

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

Report No.: FYCR221000040004

Page: 12 of 125

# 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

Standard Requirement:

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

15.247(b) (4) requirement:

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

#### EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.93 dBi.

Antenna location: Refer to internal photo.



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Report No.: FYCR221000040004

Page: 13 of 125

# 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:

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

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

Operating Environment:

Temperature: 19 °C Humidity: 47 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

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



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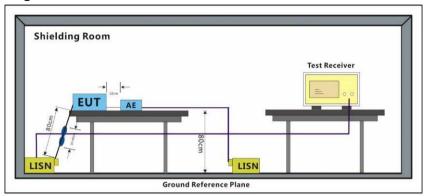


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 14 of 125

#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a  $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$  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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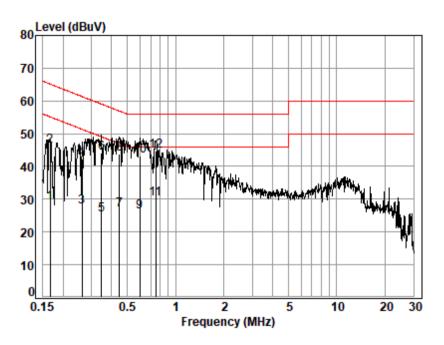


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 15 of 125

Test Mode: 08; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 00400AT

Test mode: 08

	mouc. oo							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
	0.4650		0.05			46	25.22	
1	0.1659	0.02	0.25	28.61	28.88	55.16	-26.28	Average
2	0.1659	0.02	0.25	45.85	46.12	65.16	-19.04	QP
3	0.2616	0.03	0.26	27.32	27.61	51.38	-23.77	Average
4	0.2616	0.03	0.26	41.88	42.17	61.38	-19.21	QP
5	0.3465	0.03	0.27	25.01	25.31	49.05	-23.74	Average
6	0.3465	0.03	0.27	43.68	43.98	59.05	-15.07	QP
7	0.4468	0.02	0.27	26.43	26.72	46.93	-20.21	Average
8	0.4468	0.02	0.27	43.60	43.89	56.93	-13.04	QP
9	0.5979	0.05	0.24	25.84	26.13	46.00	-19.87	Average
10	0.5979	0.05	0.24	42.81	43.10	56.00	-12.90	QP
11	0.7509	0.04	0.21	29.73	29.98	46.00	-16.02	Average
12	0.7509	0.04	0.21	44.55	44.80	56.00	-11.20	QP



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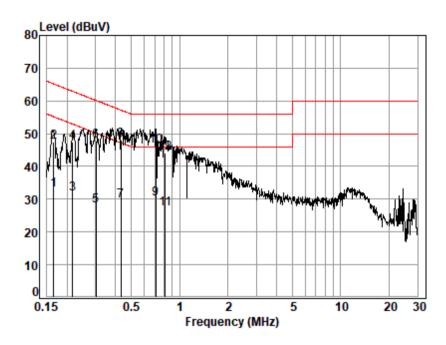


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 16 of 125

Test Mode: 08; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 00400AT

Test mode: 08

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
	0.4550			20.50	20.00			
1	0.1650	0.02	0.30	32.50	32.82	55.21	-22.39	Average
2	0.1650	0.02	0.30	47.02	47.34	65.21	-17.87	QP
3	0.2174	0.02	0.29	31.25	31.56	52.92	-21.36	Average
4	0.2174	0.02	0.29	47.18	47.49	62.92	-15.43	QP
5	0.3035	0.03	0.28	27.64	27.95	50.15	-22.20	Average
6	0.3035	0.03	0.28	47.51	47.82	60.15	-12.33	QP
7	0.4328	0.02	0.27	29.16	29.45	47.20	-17.75	Average
8	0.4328	0.02	0.27	47.88	48.17	57.20	-9.03	QP
9	0.7122	0.02	0.16	30.00	30.18	46.00	-15.82	Average
10	0.7122	0.02	0.16	46.19	46.37	56.00	-9.63	QP
11	0.8131	0.06	0.12	26.89	27.07	46.00	-18.93	Average
12	0.8131	0.06	0.12	43.79	43.97	56.00	-12.03	QP



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

Report No.: FYCR221000040004

Page: 17 of 125

#### 7.2 Conducted Output Power

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

#### Limit:

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

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

Operating Environment:

Temperature: 21 °C Humidity: 44 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

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



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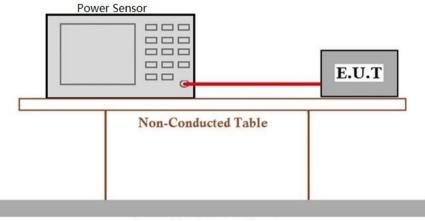


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 18 of 125

#### 7.2.3 Test Setup Diagram



Ground Reference Plane

#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: FYCR221000040004

Page: 19 of 125

#### 7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

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

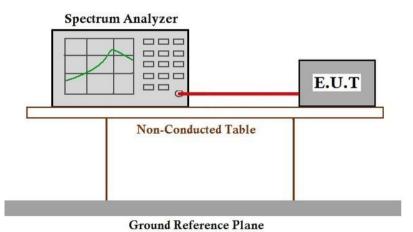
Operating Environment:

Temperature: 21 °C Humidity: 44 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

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

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: FYCR221000040004

Page: 20 of 125

#### 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

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

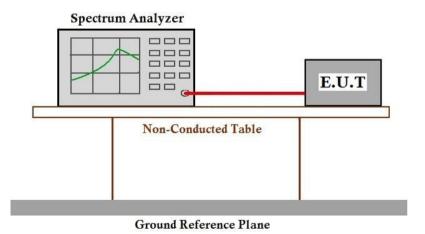
Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

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

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: FYCR221000040004

Page: 21 of 125

#### 7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

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

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

Operating Environment:

Temperature: 22 °C Humidity: 44 % RH Atmospheric Pressure: 1020 mbar

#### 7.5.2 Test Mode Description

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



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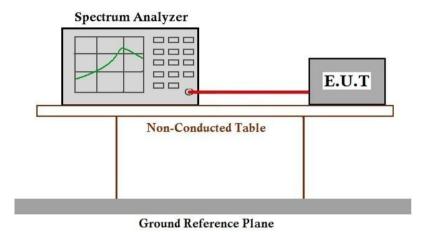


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 22 of 125

#### 7.5.3 Test Setup Diagram



#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: FYCR221000040004

Page: 23 of 125

#### 7.6 Conducted Spurious Emissions

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

Limit:

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

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

Operating Environment:

Temperature: 21 °C Humidity: 44 % RH Atmospheric Pressure: 1020 mbar

#### 7.6.2 Test Mode Description

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



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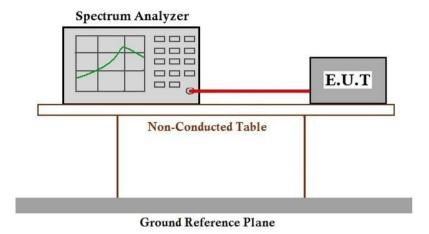


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 24 of 125

#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: FYCR221000040004

Page: 25 of 125

#### 7.7 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

#### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar



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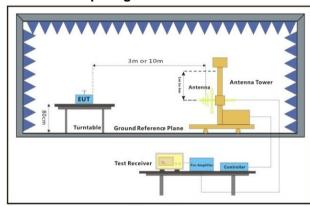
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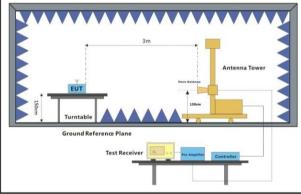
Page: 26 of 125

#### 7.7.2 Test Mode Description

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

#### 7.7.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz



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

Report No.: FYCR221000040004

Page: 27 of 125

#### 7.7.4 Measurement Procedure and Data

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

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



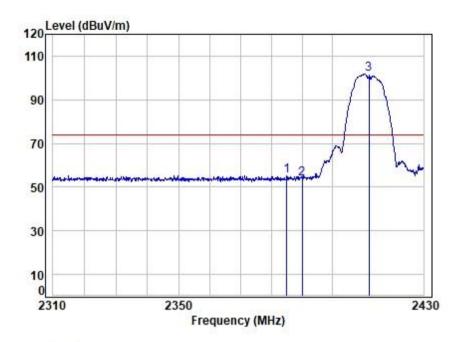


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 28 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

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

	Freq		Ant Factor	200		Level			Remark
2	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	2385.011	5.05	27.15	32.50	55.73	55.43	74.00	-18.57	peak
2	2390.000	5.05	27.16	32.50	53.92	53.63	74.00	-20.37	peak
3 .	2412.000	5.07	27.21	32.50	101.88	101.66	74.00	27.66	peak



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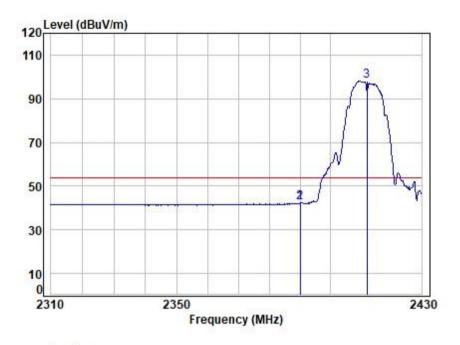


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 29 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

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

	Freq			Preamp Factor	Read Level		Limit Line		
9	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	2389.968	5.05	27.16	32.50	42.70	42.41	54.00	-11.59	Average
2	2390.000	5.05	27.16	32.50	42.70	42.41	54.00	-11.59	Average
3 .	2412.000	5.07	27.21	32.50	98.33	98.11	54.00	44.11	Average



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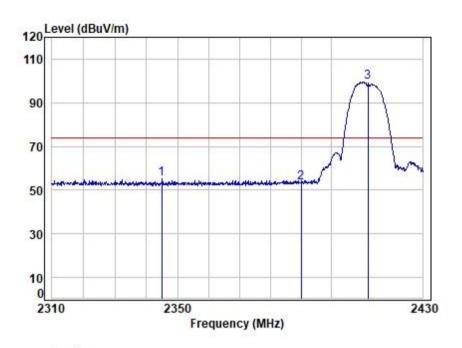


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 30 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

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

	Freq			Preamp Factor	Read Level		Limit Line		
8	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2345.008	5.02	27.06	32.50	55.57	55.15	74.00	-18.85	Peak
2	2390.000	5.05	27.16	32.50	53.70	53.41	74.00	-20.59	Peak
3 .	2412.000	5.07	27.21	32.50	99.55	99.33	74.00	25.33	Peak



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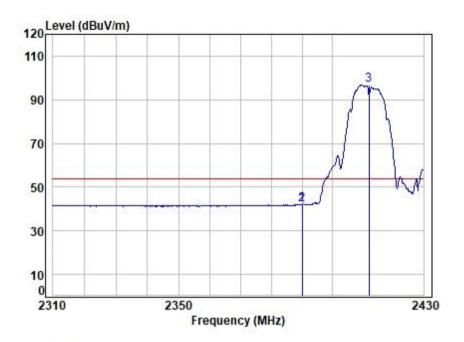


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 31 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

1 2

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

	Freq			Preamp Factor				Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.968	5.05	27.16	32.50	42.36	42.07	54.00	-11.93	Average
2	2390.000	5.05	27.16	32.50	42.36	42.07	54.00	-11.93	Average
1	. 2412.000	5.07	27.21	32.50	96.94	96.72	54.00	42.72	Average



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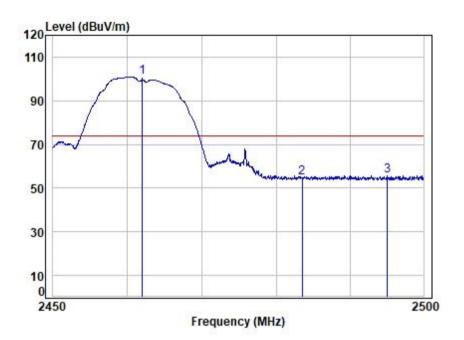


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 32 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

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

	Freq		Ant Factor	200					Remark
2	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1.	2462.000	5.10	27.32	32.50	101.00	100.92	74.00	26.92	peak
2	2483.500	5.12	27.36	32.50	54.63	54.61	74.00	-19.39	peak
3	2495.106	5.13	27.39	32.50	55.61	55.63	74.00	-18.37	peak



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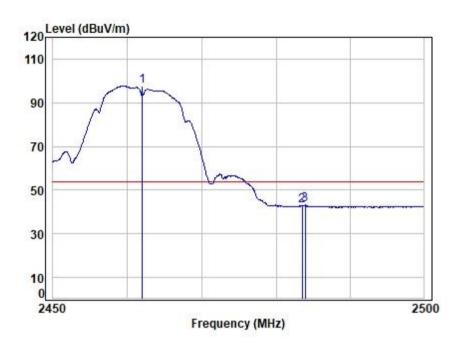


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 33 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

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

	Freq	Freq			Preamp Factor	Read Level			Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1.	2462.000	5.10	27.32	32.50	97.71	97.63	54.00	43.63	Average	
2	2483.500	5.12	27.36	32.50	43.02	43.00	54.00	-11.00	Average	
3	2483.940	5.12	27.37	32.50	43.14	43.13	54.00	-10.87	Average	



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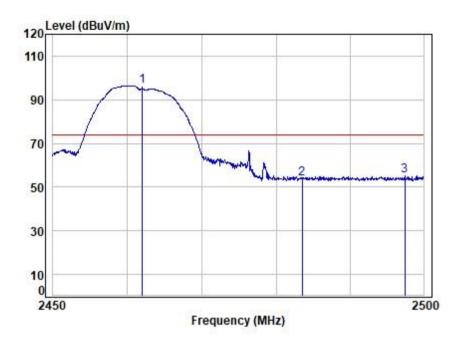


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 34 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

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

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	22	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1		2462.000	5.10	27.32	32.50	96.47	96.39	74.00	22.39	Peak
2		2483.500	5.12	27.36	32.50	53.67	53.65	74.00	-20.35	Peak
3		2497.426	5.13	27.39	32.50	55.17	55.19	74.00	-18.81	Peak



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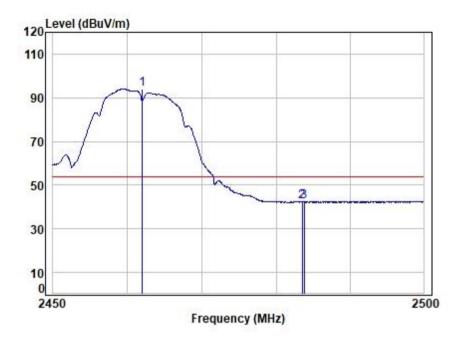


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 35 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT Mode : 2462 Band ed

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

		Freq			Preamp Factor	Read Level		Limit Line		
	2	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.		2462.000	5.10	27.32	32.50	94.05	93.97	54.00	39.97	Average
2		2483.500	5.12	27.36	32.50	42.31	42.29	54.00	-11.71	Average
3		2483.790	5.12	27.37	32.50	42.44	42.43	54.00	-11.57	Average



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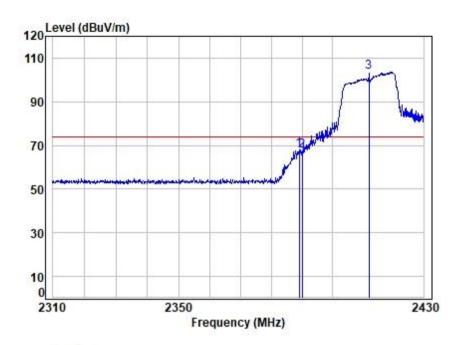


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 36 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

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

	Freq			2.77			Limit Line		
8	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.000	5.05	27.16	32.50	68.39	68.10	74.00	-5.90	peak
2	2390.000	5.05	27.16	32.50	67.70	67.41	74.00	-6.59	peak
3 .	2412.000	5.07	27.21	32.50	103.85	103.63	74.00	29.63	peak



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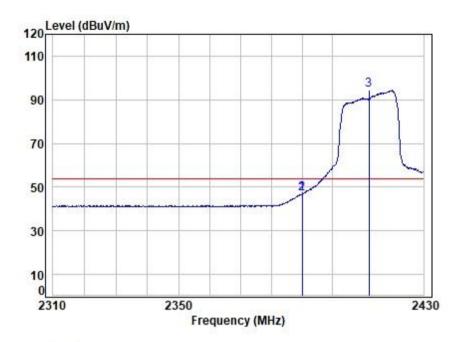


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 37 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

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

	Freq			Preamp Factor			Limit Line		
8	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	2389.968	5.05	27.16	32.50	47.34	47.05	54.00	-6.95	Average
2	2390.000	5.05	27.16	32.50	47.34	47.05	54.00	-6.95	Average
3 .	2412.000	5.07	27.21	32.50	94.47	94.25	54.00	40.25	Average



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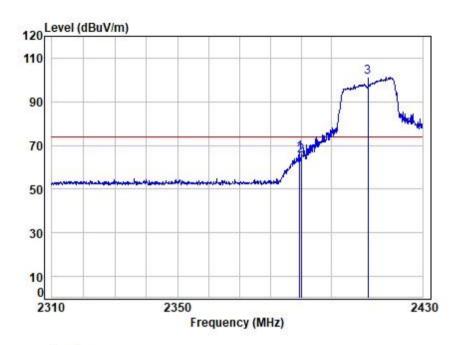


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 38 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

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

			Ant	200			Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
2	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	5.05	27.16	32.50	66.99	66.70	74.00	-7.30	Peak
2	2390.000	5.05	27.16	32.50	65.42	65.13	74.00	-8.87	Peak
3 .	2412.000	5.07	27.21	32.50	101.61	101.39	74.00	27.39	Peak



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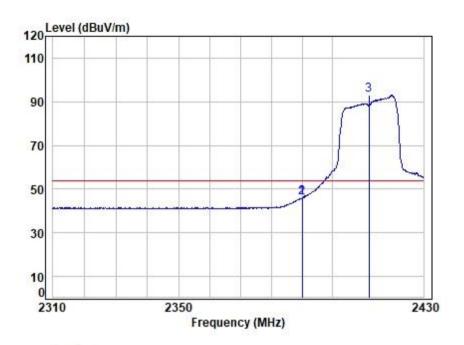


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 39 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

1 2

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

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.968	5.05	27.16	32.50	46.22	45.93	54.00	-8.07	Average
1	2390.000	5.05	27.16	32.50	46.22	45.93	54.00	-8.07	Average
	2412.000	5.07	27.21	32.50	93.19	92.97	54.00	38.97	Average



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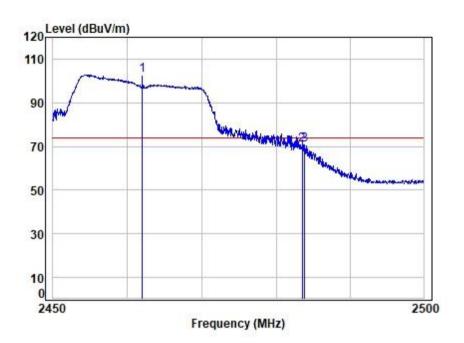


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 40 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

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

	Freq			2.77			Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1.	2462.000	5.10	27.32	32.50	102.89	102.81	74.00	28.81	peak
							74.00		
3	2483.840								



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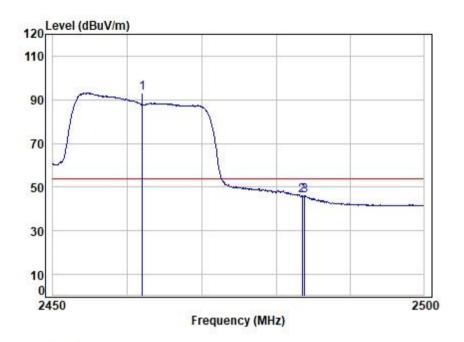


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 41 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

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

		Freq			Preamp Factor			Limit Line		
	2	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1		2462.000	5.10	27.32	32.50	93.20	93.12	54.00	39.12	Average
2		2483.500	5.12	27.36	32.50	45.96	45.94	54.00	-8.06	Average
3		2483.890	5.12	27.37	32.50	46.03	46.02	54.00	-7.98	Average



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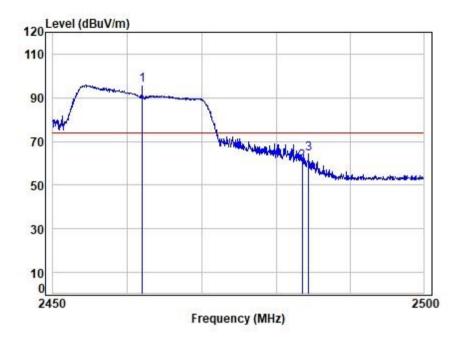


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 42 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

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

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	22	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1		2462.000	5.10	27.32	32.50	95.76	95.68	74.00	21.68	Peak
2		2483.500	5.12	27.36	32.50	60.83	60.81	74.00	-13.19	Peak
3		2484.392	5.12	27.37	32.50	64.25	64.24	74.00	-9.76	Peak



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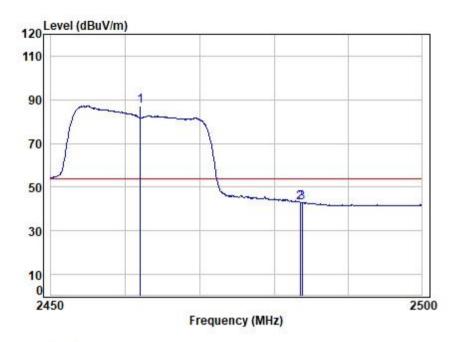


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 43 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

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

	Freq			Preamp Factor	Read Level		Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1 .	2462.000	5.10	27.32	32.50	87.25	87.17	54.00	33.17	Average
2	2483.500	5.12	27.36	32.50	42.90	42.88	54.00	-11.12	Average
3	2483.790	5.12	27.37	32.50	43.11	43.10	54.00	-10.90	Average



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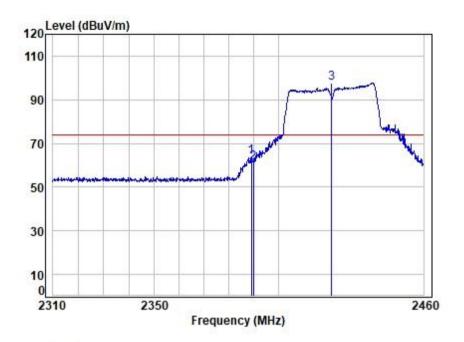


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 44 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2422 Band edge Note : 2.4G WIFI 11N40

	Freq			Preamp Factor					
9	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.075	5.05	27.16	32.50	64.22	63.93	74.00	-10.07	peak
2	2390.000	5.05	27.16	32.50	61.51	61.22	74.00	-12.78	peak
3 .	2422.000	5.08	27.23	32.50	97.86	97.67	74.00	23.67	peak



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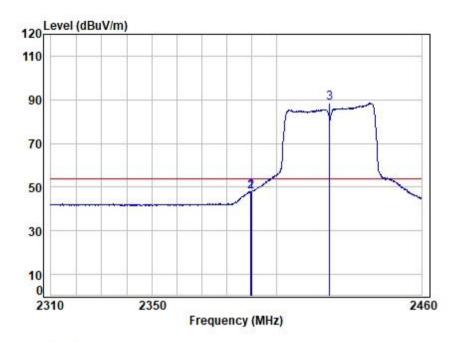


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 45 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2422 Band edge Note : 2.4G WIFI 11N40

	Freq			Preamp Factor	Read Level		Limit Line		
9	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	5.05	27.16	32.50	48.37	48.08	54.00	-5.92	Average
2	2390.000	5.05	27.16	32.50	48.14	47.85	54.00	-6.15	Average
3 .	2422.000	5.08	27.23	32.50	88.52	88.33	54.00	34.33	Average



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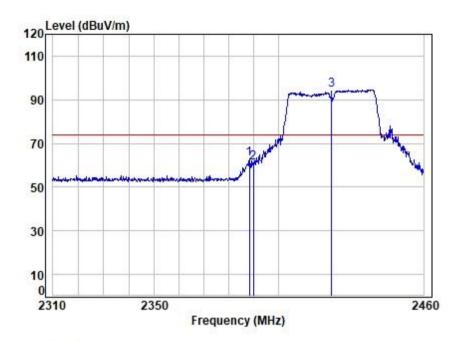


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 46 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

1 2

Mode : 2422 Band edge Note : 2.4G WIFI 11N40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
	2388.324	5.05	27.15	32.50	63.14	62.84	74.00	-11.16	Peak
2	2390.000	5.05	27.16	32.50	61.43	61.14	74.00	-12.86	Peak
,	2422.000	5.08	27.23	32.50	94.72	94.53	74.00	20.53	Peak



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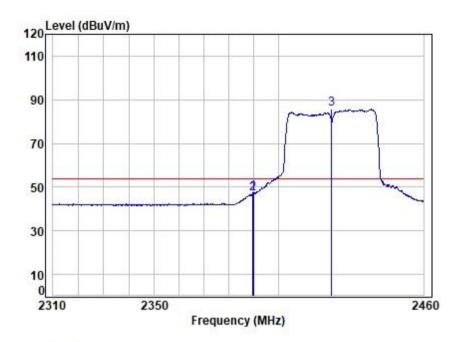


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 47 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

Mode : 2422 Band edge Note : 2.4G WIFI 11N40

	Freq			Preamp Factor	Read Level		Limit Line	Over Limit	
2	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	2389.827	5.05	27.16	32.50	47.61	47.32	54.00	-6.68	Average
2	2390.000	5.05	27.16	32.50	47.50	47.21	54.00	-6.79	Average
3 .	2422.000	5.08	27.23	32.50	85.78	85.59	54.00	31.59	Average



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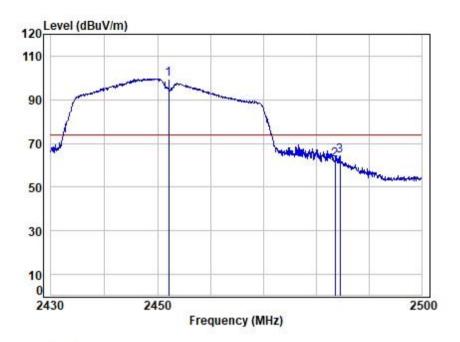


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 48 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2452 Band edge Note : 2.4G WIFI 11N40

	Freq			Preamp Factor	Read Level		Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1.	2452.000	5.10	27.30	32.50	99.74	99.64	74.00	25.64	peak
2	2483.500	5.12	27.36	32.50	62.64	62.62	74.00	-11.38	peak
3	2484.429	5.12	27.37	32.50	64.13	64.12	74.00	-9.88	peak



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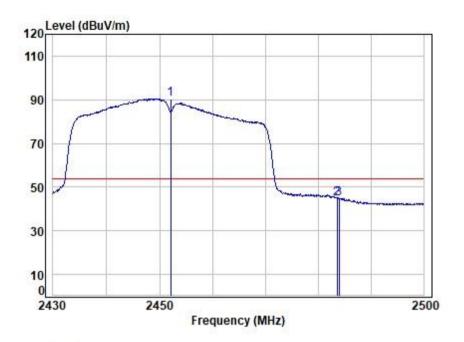


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 49 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2452 Band edge Note : 2.4G WIFI 11N40

	Freq			Preamp Factor	Read Level		Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1.	2452.000	5.10	27.30	32.50	90.57	90.47	54.00	36.47	Average
2	2483.500	5.12	27.36	32.50	44.94	44.92	54.00	-9.08	Average
3	2483.865	5.12	27.37	32.50	44.83	44.82	54.00	-9.18	Average



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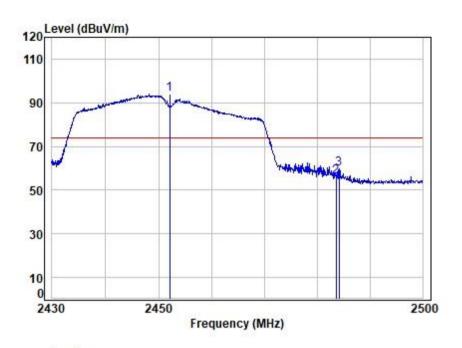


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 50 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

Mode : 2452 Band edge Note : 2.4G WIFI 11N40

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1.	2452.000	5.10	27.30	32.50	94.27	94.17	74.00	20.17	Peak
2	2483.500	5.12	27.36	32.50	56.22	56.20	74.00	-17.80	Peak
3	2484.076	5.12	27.37	32.50	59.95	59.94	74.00	-14.06	Peak



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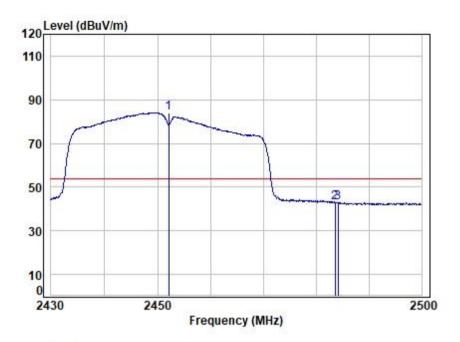


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 51 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

Mode : 2452 Band edge Note : 2.4G WIFI 11N40

	Freq			Preamp Factor	Read Level		Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1.	2452.000	5.10	27.30	32.50	84.23	84.13	54.00	30.13	Average
2	2483.500	5.12	27.36	32.50	43.08	43.06	54.00	-10.94	Average
3	2484.076	5.12	27.37	32.50	43.07	43.06	54.00	-10.94	Average



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

Report No.: FYCR221000040004

Page: 52 of 125

### 7.8 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

#### Limit:

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

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 19 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

#### 7.8.2 Test Mode Description

7.0.2 10001		
Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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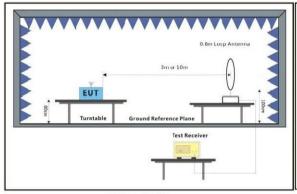


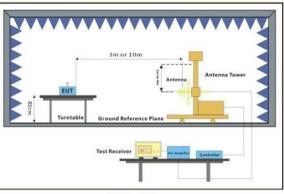
SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 53 of 125

#### 7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 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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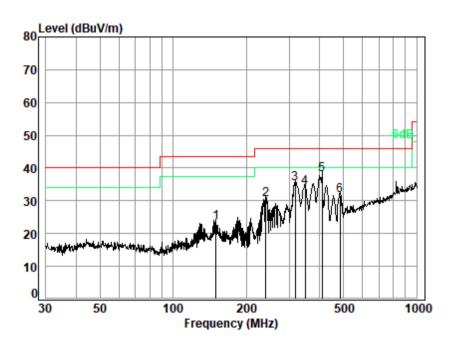


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 54 of 125

Test Mode: 08; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 08

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	150.0108	0.91	17.43	25.53	30.47	23.28	43.50	-20.22	QP
2	240.8304	0.82	16.42	25.44	38.74	30.54	46.00	-15.46	QP
3	316.5890	1.19	19.10	25.41	40.52	35.40	46.00	-10.60	QP
4	348.0274	1.50	19.81	25.43	38.24	34.12	46.00	-11.88	QP
5	408.9460	1.64	20.90	25.46	40.96	38.04	46.00	-7.96	QP
6	485.6093	1.42	22.23	25.49	33.49	31.65	46.00	-14.35	OP



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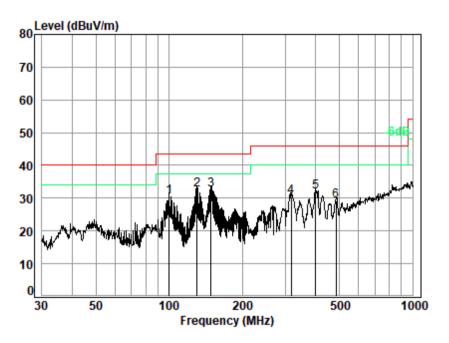


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 55 of 125

Test Mode: 08; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No : 00400AT

Mode : 08

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	——dB	dRuV	dRuV/m	dRuV/m	——dB	
	1112	ub.	ub/ III	ub	ubu v	abav/iii	abav/iii	ub	
1	99.8777	0.88	14.24	25.60	40.97	30.49	43.50	-13.01	QP
2	130.3789	0.97	16.65	25.55	40.48	32.55	43.50	-10.95	QP
3	148.4410	0.92	17.43	25.53	39.61	32.43	43.50	-11.07	QP
4	317.7010	1.20	19.15	25.41	35.62	30.56	46.00	-15.44	QP
5	400.4319	1.68	20.70	25.46	34.93	31.85	46.00	-14.15	QP
6	485.6093	1.42	22.23	25.49	31.14	29.30	46.00	-16.70	OP



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Report No.: FYCR221000040004

Page: 56 of 125

### 7.9 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

### 7.9.2 Test Mode Description

7.0.2 103010		
Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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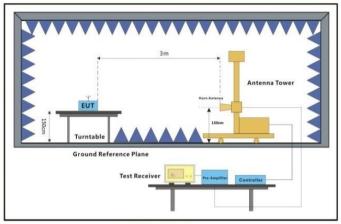


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 57 of 125

### 7.9.3 Test Setup Diagram



Above 1GHz



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

Report No.: FYCR221000040004

Page: 58 of 125

#### 7.9.4 Measurement Procedure and Data

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

#### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



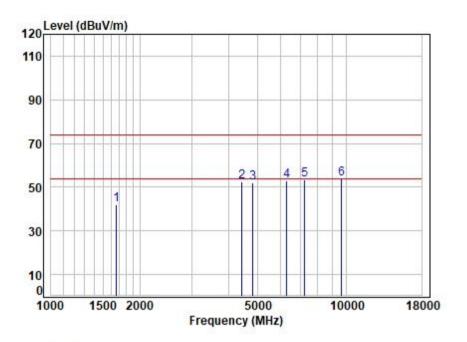


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 59 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

		AC MATI	1 110						
	Freq			Preamp Factor		Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1667.951	4.13	24.94	52.94	65.64	41.77	74.00	-32.23	peak
2	4443.453	7.47	30.12	52.94	67.69	52.34	74.00	-21.66	peak
3	4824.000	8.02	30.99	53.05	66.21	52.17	74.00	-21.83	peak
4	6285.695	7.67	33.68	53.01	64.71	53.05	74.00	-20.95	peak
5	7236.000	8.31	36.09	53.52	62.36	53.24	74.00	-20.76	peak
6	9648 000	11 38	37 62	53 54	58 31	53 77	74 99	-20 23	neak



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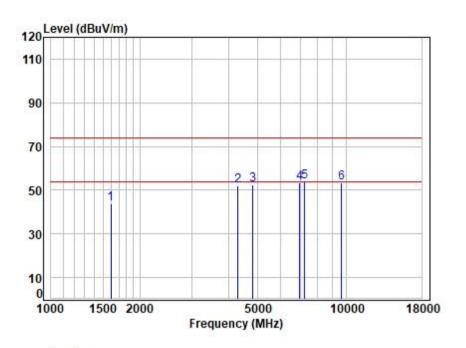


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 60 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

		AC MATI	1 110						
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1597.181	3.98	24.79	52.91	67.81	43.67	74.00	-30.33	peak
2	4304.400	7.48	29.94	52.90	67.63	52.15	74.00	-21.85	peak
3	4824.000	8.02	30.99	53.05	66.65	52.61	74.00	-21.39	peak
4	6954.852	8.15	35.70	53.47	62.80	53.18	74.00	-20.82	peak
5	7236.000	8.31	36.09	53.52	62.75	53.63	74.00	-20.37	peak
6	9648 000	11 38	37 62	53 54	57 93	53 39	74 99	-29 61	neak



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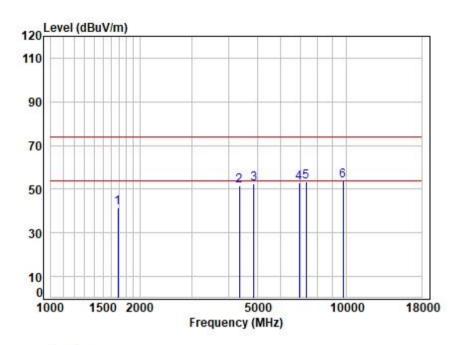


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 61 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1687.347	4.17	24.98	52.95	65.14	41.34	74.00	-32.66	peak
2	4354.454	7.48	30.00	52.91	66.86	51.43	74.00	-22.57	peak
3	4874.000	8.10	31.11	53.07	66.45	52.59	74.00	-21.41	peak
4	6934.778	8.13	35.65	53.46	62.71	53.03	74.00	-20.97	peak
5	7311.000	8.34	36.18	53.53	62.42	53.41	74.00	-20.59	peak
6	9748 000	11 30	37 84	53 11	58 18	53 88	7/ 00	-20 12	neak



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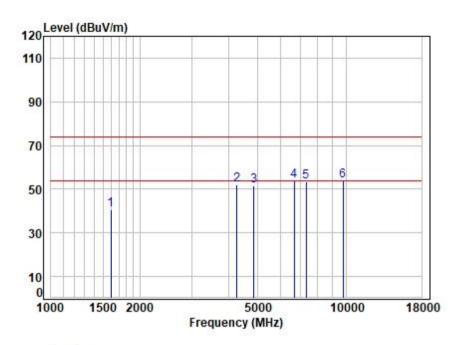


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 62 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

	. 2.	+Q MIL	1 110						
				Preamp			Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.98	24.79	52.91	64.90	40.76	74.00	-33.24	peak
2	4267.237	7.48	29.88	52.89	67.62	52.09	74.00	-21.91	peak
3	4874.000	8.10	31.11	53.07	65.36	51.50	74.00	-22.50	peak
4	6679.040	7.88	35.04	53.29	63.99	53.62	74.00	-20.38	peak
5	7311.000	8.34	36.18	53.53	62.52	53.51	74.00	-20.49	peak
6	9748.000	11.30	37.84	53.44	58.03	53.73	74.00	-20.27	neak



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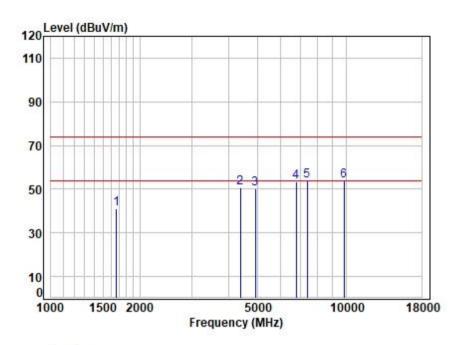


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 63 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

	. 2.44 WII I IID											
	Freq			Preamp Factor								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB				
1	1667.951	4.13	24.94	52.94	64.72	40.85	74.00	-33.15	peak			
2	4392.376	7.47	30.06	52.93	66.20	50.80	74.00	-23.20	peak			
3	4924.000	8.18	31.23	53.08	64.06	50.39	74.00	-23.61	peak			
4	6776.265	7.98	35.27	53.35	63.29	53.19	74.00	-20.81	peak			
5	7386.000	8.38	36.27	53.54	62.51	53.62	74.00	-20.38	peak			
6	9848 000	11 23	38 97	53 35	57 94	53 89	74 99	-20 11	neak			



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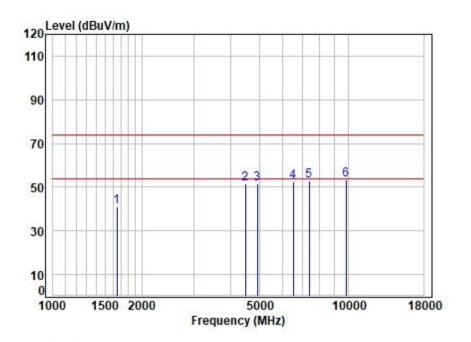


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 64 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT Mode : 2462 TX RSE

: 2.4G WIFI 11B

	Freq			Preamp Factor	Read Level		Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1648.778	4.09	24.90	52.93	65.10	41.16	74.00	-32.84	peak
2	4495.125	7.47	30.19	52.96	66.80	51.50	74.00	-22.50	peak
3	4924.000	8.18	31.23	53.08	65.09	51.42	74.00	-22.58	peak
4	6526.373	7.73	34.67	53.18	63.04	52.26	74.00	-21.74	peak
5	7386.000	8.38	36.27	53.54	61.69	52.80	74.00	-21.20	peak
6	9848 000	11 23	38 97	53 35	57 27	53 22	74 99	-20 78	neak



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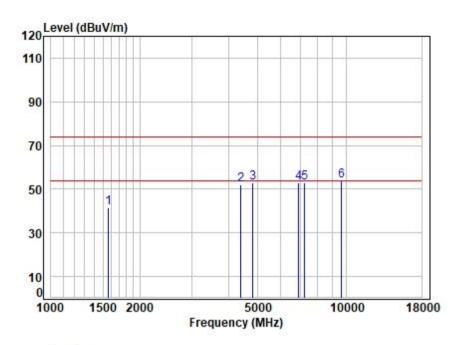


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 65 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

	. 2.4d WIFI IIN20											
		Cable	Ant	Preamp	Read		Limit	Over				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB				
1	1569.721	3.92	24.71	52.89	65.58	41.32	74.00	-32.68	peak			
2	4405.090	7.47	30.07	52.93	67.59	52.20	74.00	-21.80	peak			
3	4824.000	8.02	30.99	53.05	67.02	52.98	74.00	-21.02	peak			
4	6914.763	8.11	35.60	53.44	62.43	52.70	74.00	-21.30	peak			
5	7236.000	8.31	36.09	53.52	62.16	53.04	74.00	-20.96	peak			
6	9648.000	11.38	37.62	53.54	58.47	53.93	74.00	-20.07	neak			



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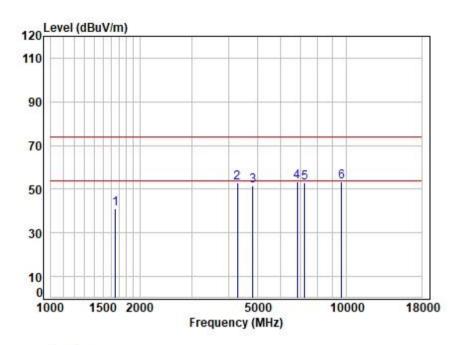


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 66 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

	. 2.4d WIFI 11N20											
		Cable	Ant	Preamp	Read		Limit	Over				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-			
1	1653.550	4.10	24.91	52.94	64.94	41.01	74.00	-32.99	peak			
2	4279.589	7.48	29.90	52.89	68.29	52.78	74.00	-21.22	peak			
3	4824.000	8.02	30.99	53.05	65.56	51.52	74.00	-22.48	peak			
4	6835.278	8.03	35.41	53.39	63.38	53.43	74.00	-20.57	peak			
5	7236.000	8.31	36.09	53.52	62.22	53.10	74.00	-20.90	peak			
6	9648,000	11.38	37.62	53.54	57.89	53.35	74.00	-20.65	neak			



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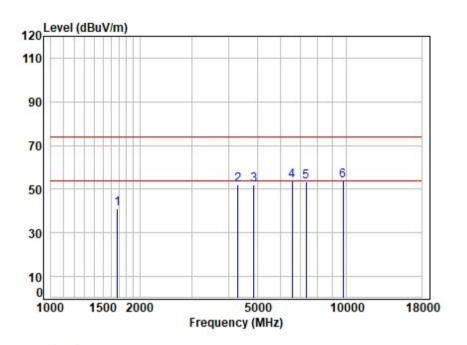


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 67 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

	. 2.4d WIFI 11N20											
		Cable	Ant	Preamp	Read		Limit	Over				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB				
1	1682.477	4.16	24.97	52.95	65.02	41.20	74.00	-32.80	peak			
2	4304.400	7.48	29.94	52.90	67.67	52.19	74.00	-21.81	peak			
3	4874.000	8.10	31.11	53.07	65.84	51.98	74.00	-22.02	peak			
4	6564.209	7.76	34.76	53.21	64.38	53.69	74.00	-20.31	peak			
5	7311.000	8.34	36.18	53.53	62.22	53.21	74.00	-20.79	peak			
6	9748.000	11.30	37.84	53.44	58.30	54.00	74.00	-20.00	neak			



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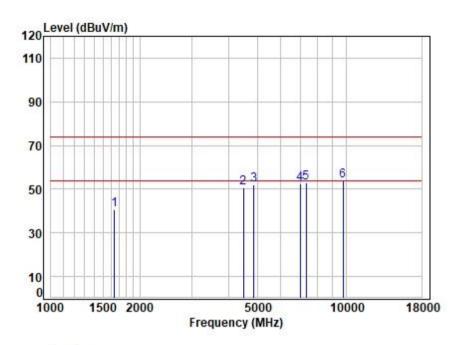


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 68 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT Mode : 2437 TX RSE

· 2 4G WIFT 11N20

	. 2.4d WIFI 11N20											
		Cable	Ant	Preamp	Read		Limit	0ver				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB				
1	1644.019	4.08	24.89	52.93	64.37	40.41	74.00	-33.59	peak			
2	4482.150	7.47	30.18	52.95	66.07	50.77	74.00	-23.23	peak			
3	4874.000	8.10	31.11	53.07	65.81	51.95	74.00	-22.05	peak			
4	6974.982	8.17	35.74	53.48	62.25	52.68	74.00	-21.32	peak			
5	7311.000	8.34	36.18	53.53	61.99	52.98	74.00	-21.02	peak			
6	9748.000	11.30	37.84	53.44	58.21	53.91	74.00	-20.09	neak			



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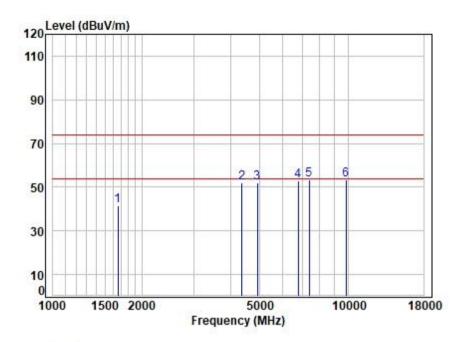


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 69 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

	. 2.4d WIFI 11N20											
		Cable	Ant	Preamp	Read		Limit	0ver				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-			
1	1658.337	4.11	24.92	52.94	65.32	41.41	74.00	-32.59	peak			
2	4367.058	7.48	30.02	52.92	67.22	51.80	74.00	-22.20	peak			
3	4924.000	8.18	31.23	53.08	65.57	51.90	74.00	-22.10	peak			
4	6776.265	7.98	35.27	53.35	63.08	52.98	74.00	-21.02	peak			
5	7386.000	8.38	36.27	53.54	62.43	53.54	74.00	-20.46	peak			
6	9848.000	11.23	38.07	53.35	57.61	53.56	74.00	-20.44	neak			



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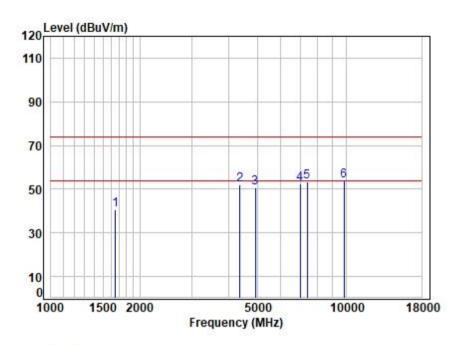


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 70 of 125

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



: chamber Site

Condition: 3m VERTICAL

Job No : 00400AT Mode : 2462 TX RSE

· 2 46 WIET 11N20

	. Z.	40 MIL	T TIME	0					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1653.550	4.10	24.91	52.94	64.33	40.40	74.00	-33.60	peak
2	4367.058	7.48	30.02	52.92	67.43	52.01	74.00	-21.99	peak
3	4924.000	8.18	31.23	53.08	64.10	50.43	74.00	-23.57	peak
4	6974.982	8.17	35.74	53.48	61.83	52.26	74.00	-21.74	peak
5	7386.000	8.38	36.27	53.54	62.34	53.45	74.00	-20.55	peak
6	9848.000	11.23	38.07	53.35	58.03	53.98	74.00	-20.02	peak



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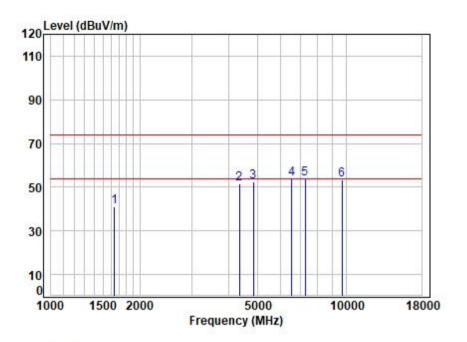


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 71 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2422 TX RSE

: 2.4G WIFI 11N40

	. 2.4d WIFI IIN40											
		Cable	Ant	Preamp	Read		Limit	0ver				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB				
1	1639.274	4.07	24.88	52.93	64.87	40.89	74.00	-33.11	peak			
2	4354.454	7.48	30.00	52.91	67.19	51.76	74.00	-22.24	peak			
3	4844.000	8.05	31.04	53.06	66.35	52.38	74.00	-21.62	peak			
4	6545.263	7.75	34.71	53.19	64.60	53.87	74.00	-20.13	peak			
5	7266.000	8.32	36.12	53.53	62.91	53.82	74.00	-20.18	peak			
6	9688.000	11.35	37.71	53.50	57.65	53.21	74.00	-20.79	neak			



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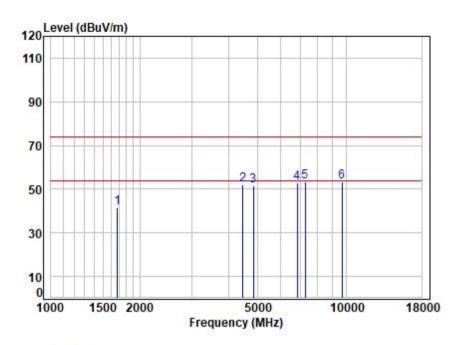


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 72 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

Mode : 2422 TX RSE

: 2.4G WIFI 11N40

	. Z.+d WIII IIN+o											
	Freq			Preamp Factor								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-			
1	1677.621	4.15	24.96	52.95	65.43	41.59	74.00	-32.41	peak			
2	4469.214	7.47	30.16	52.95	67.11	51.79	74.00	-22.21	peak			
3	4844.000	8.05	31.04	53.06	65.59	51.62	74.00	-22.38	peak			
4	6815.551	8.01	35.37	53.38	63.11	53.11	74.00	-20.89	peak			
5	7266.000	8.32	36.12	53.53	62.52	53.43	74.00	-20.57	peak			
6	9688 000	11 35	37 71	53 50	58 94	53 60	74 99	-20 40	neak			



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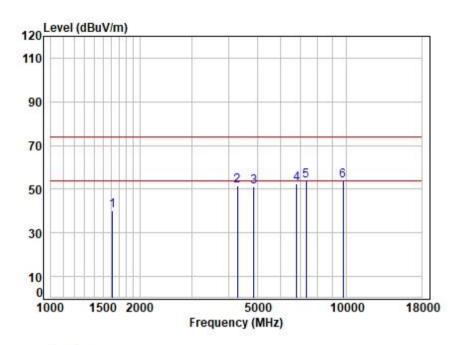


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 73 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N40

	. Z.	40 MIL	T TT114	0					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1615.754	4.02	24.83	52.92	64.36	40.29	74.00	-33.71	peak
2	4279.589	7.48	29.90	52.89	67.08	51.57	74.00	-22.43	peak
3	4874.000	8.10	31.11	53.07	64.88	51.02	74.00	-22.98	peak
4	6795.879	7.99	35.32	53.37	62.67	52.61	74.00	-21.39	peak
5	7311.000	8.34	36.18	53.53	62.81	53.80	74.00	-20.20	peak
6	9748.000	11.30	37.84	53.44	58.21	53.91	74.00	-20.09	neak



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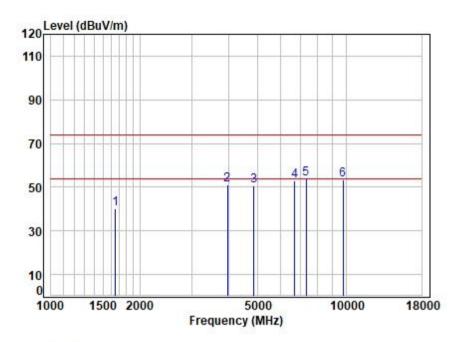


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 74 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N40

	Freq	Cable Loss		Preamp Factor	Read Level		Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	1653.550	4.10	24.91	52.94	64.15	40.22	74.00	-33.78	peak
2	3958.309	7.45	29.44	52.81	66.91	50.99	74.00	-23.01	peak
3	4874.000	8.10	31.11	53.07	64.54	50.68	74.00	-23.32	peak
4	6698.373	7.90	35.09	53.30	63.02	52.71	74.00	-21.29	peak
5	7311.000	8.34	36.18	53.53	62.78	53.77	74.00	-20.23	peak
6	9748.000	11.30	37.84	53.44	57.48	53.18	74.00	-20.82	peak



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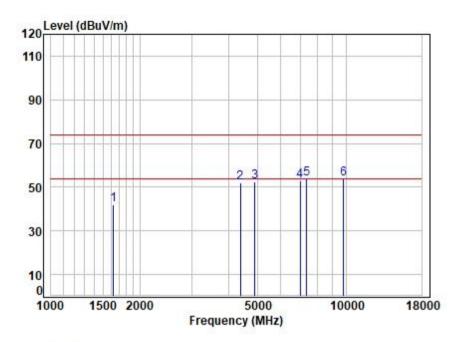


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 75 of 125

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00400AT Mode : 2452 TX RSE

: 2.4G WIFI 11N40

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m 1629.825 4.05 24.86 52.92 65.96 41.95 74.00 -32.05 peak 1 4392.376 7.47 30.06 52.93 67.62 52.22 74.00 -21.78 peak 2 3 8.15 31.18 53.07 66.32 52.58 74.00 -21.42 peak 4904.000 6974.982 8.17 35.74 53.48 62.71 53.14 74.00 -20.86 peak 5 8.36 36.23 53.54 62.66 53.71 74.00 -20.29 peak 7356.000 9808.000 11.26 37.98 53.38 58.08 53.94 74.00 -20.06 peak



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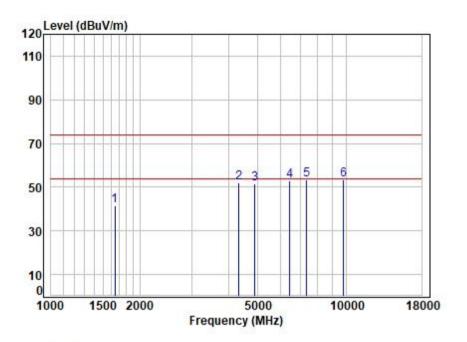


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 76 of 125

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



Site : chamber

Condition: 3m VERTICAL

Job No : 00400AT

Mode : 2452 TX RSE

: 2.4G WIFI 11N40

	. Z.	40 MIL	1 111/4	0					
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	4.09	24.90	52.93	65.42	41.48	74.00	-32.52	peak
2	4329.354	7.48	29.97	52.91	67.47	52.01	74.00	-21.99	peak
3	4904.000	8.15	31.18	53.07	65.25	51.51	74.00	-22.49	peak
4	6432.732	7.69	34.31	53.12	64.15	53.03	74.00	-20.97	peak
5	7356.000	8.36	36.23	53.54	62.37	53.42	74.00	-20.58	peak
6	9808.000	11.26	37.98	53.38	57.66	53.52	74.00	-20.48	peak



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Report No.: FYCR221000040004

Page: 77 of 125

#### 7.10 Duty Cycle

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

Limit:

N/A

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

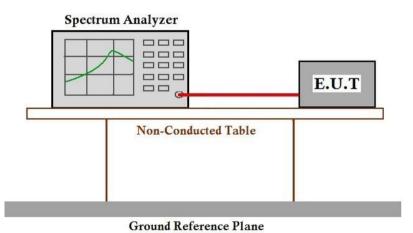
Operating Environment:

Temperature: 21 °C Humidity: 44 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

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

#### 7.10.3 Test Setup Diagram



#### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: FYCR221000040004

Page: 78 of 125

# 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2210000400AT

# 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2210000400AT



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

Report No.: FYCR221000040004

Page: 79 of 125

# 10 Appendix

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		2412	8.417	8.510	98.91	0.05	0.00		
802.11b	SISO	2437	8.417	8.510	98.91	0.05	0.00		
		2462	8.417	8.510	98.91	0.05	0.00		
	SISO	2412	1.397	1.495	93.44	0.29	0.03		
802.11g		2.11g SISO	2437	1.396	1.495	93.38	0.30	0.03	
		2462	1.397	1.495	93.44	0.29	0.03		
	SISO	2412	1.309	1.407	93.03	0.31	0.00		
802.11n (HT20)		SISO	2437	1.309	1.407	93.03	0.31	0.00	
(11120)			2462	1.308	1.407	92.96	0.32	0.03	
	SISO	2422	0.649	0.747	86.88	0.61	0.07		
802.11n (HT40)		2437	0.649	0.747	86.88	0.61	0.04		
(11140)		2452	0.649	0.747	86.88	0.61	0.00		



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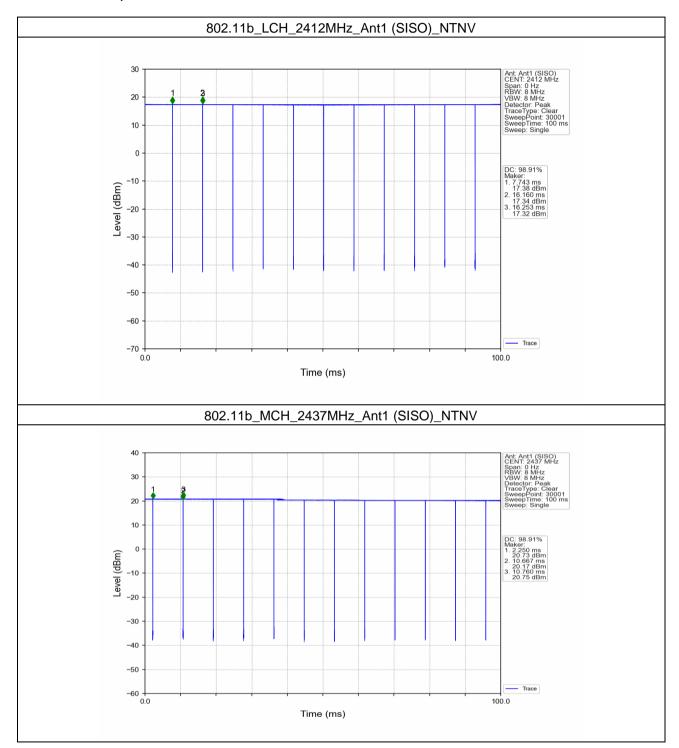


SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040004

Page: 80 of 125

#### 1.1.2 Test Graph





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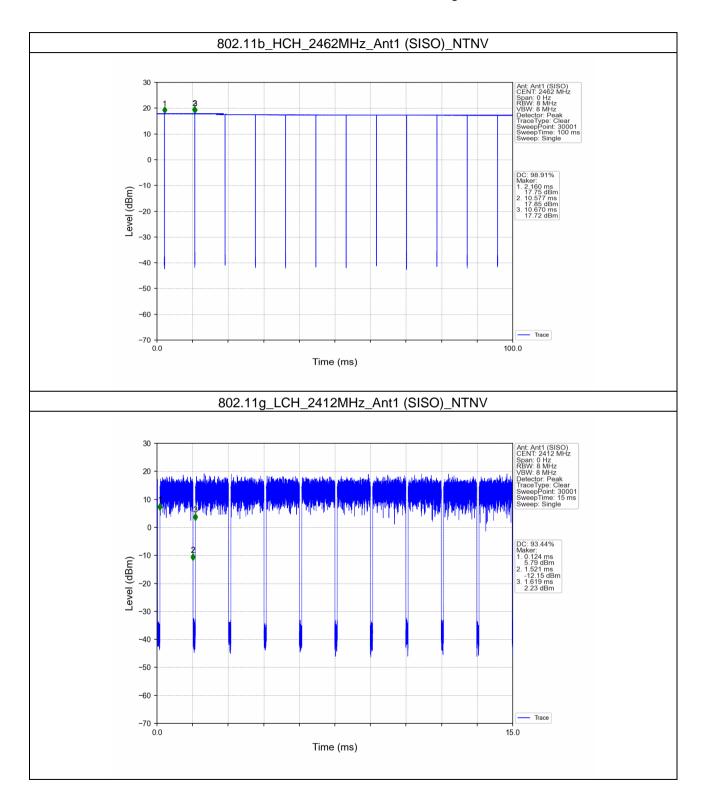
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

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Page: 81 of 125





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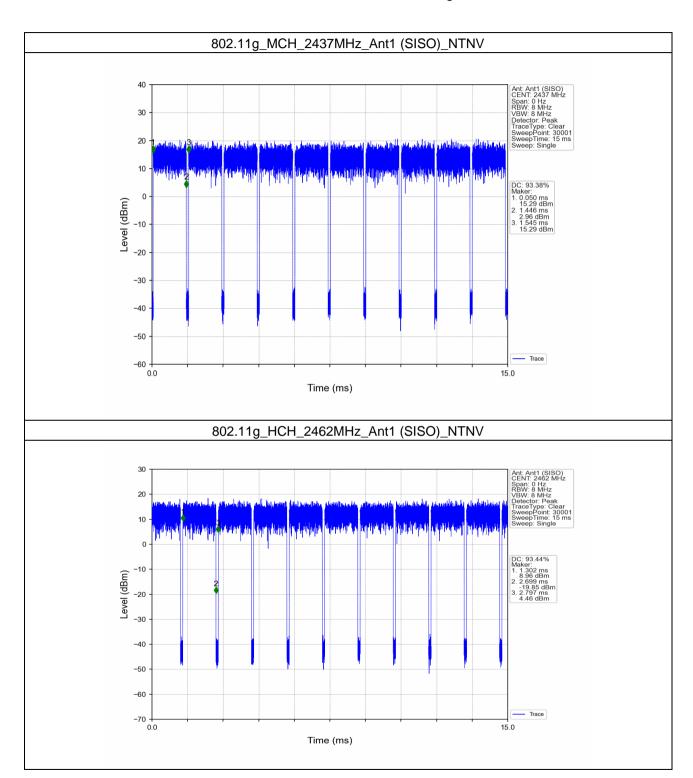
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Report No.: FYCR221000040004

Page: 82 of 125





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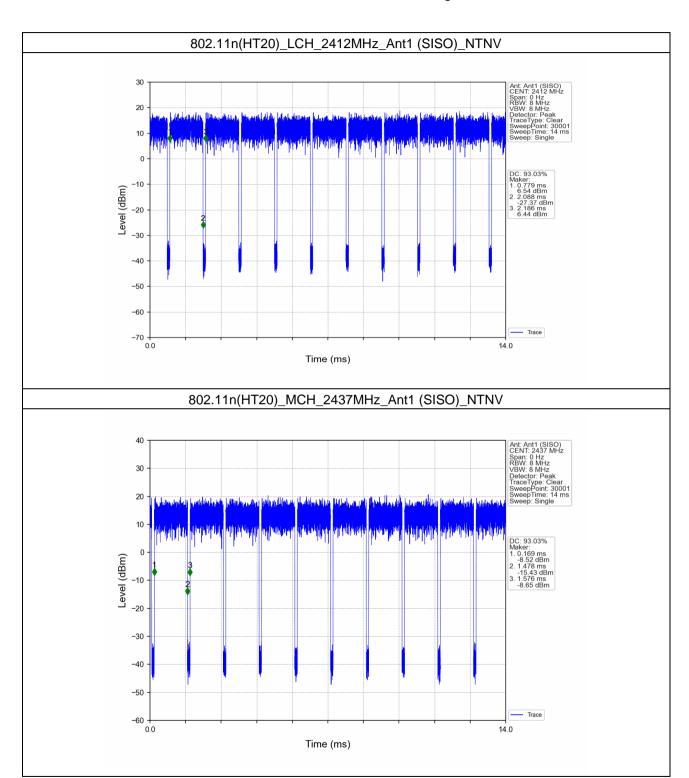
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Page: 83 of 125





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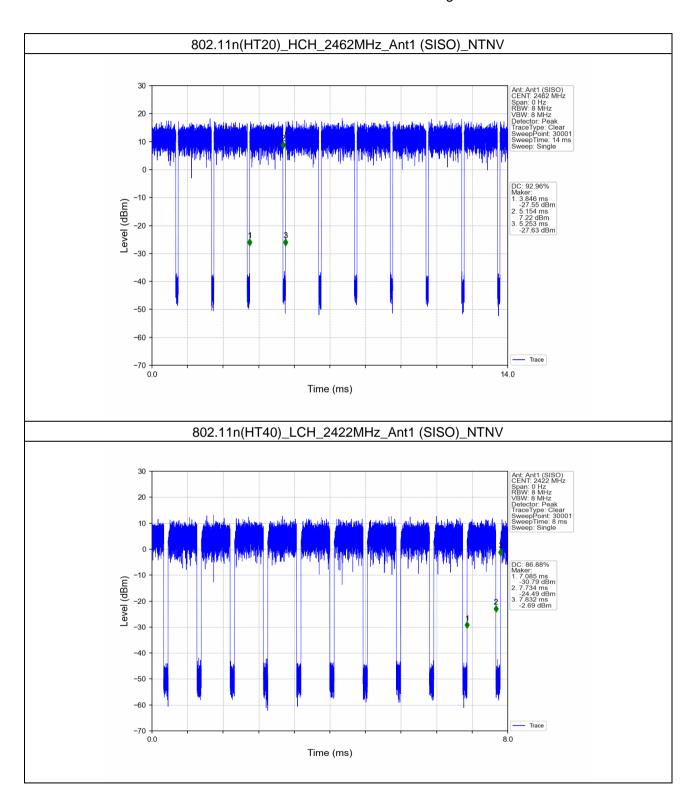
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Page: 84 of 125





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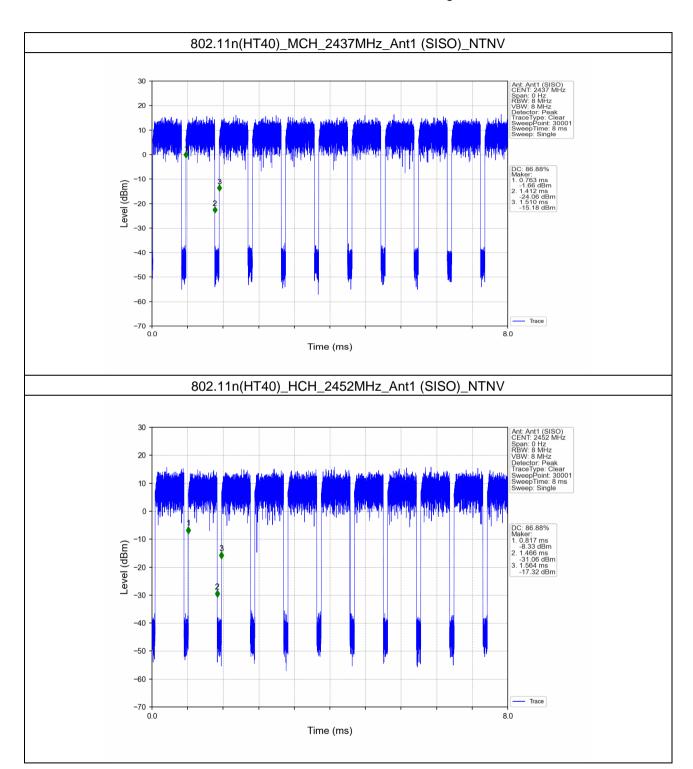
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Page: 85 of 125





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

Report No.: FYCR221000040004

Page: 86 of 125

#### 2. Bandwidth

#### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX	Frequency	ANIT	99% Occupied Bandwidth (MHz)	Vardiat	
iviode	Type	(MHz)	ANT	Result	Verdict	
		2412		11.811	Pass	
802.11b	SISO	2437	1	1 11.562		
		2462	1	11.966	Pass	
	SISO	2412	1	18.795	Pass	
802.11g		2437	1	18.342	Pass	
		2462	1	19.148	Pass	
000.44	SISO	2412	1	20.894	Pass	
802.11n (HT20)		2437	1	19.851	Pass	
(11120)		2462	1	20.857	Pass	
000 44		2422	1	36.997	Pass	
802.11n (HT40)	SISO	2437	1	37.168	Pass	
		2452	1	37.339	Pass	



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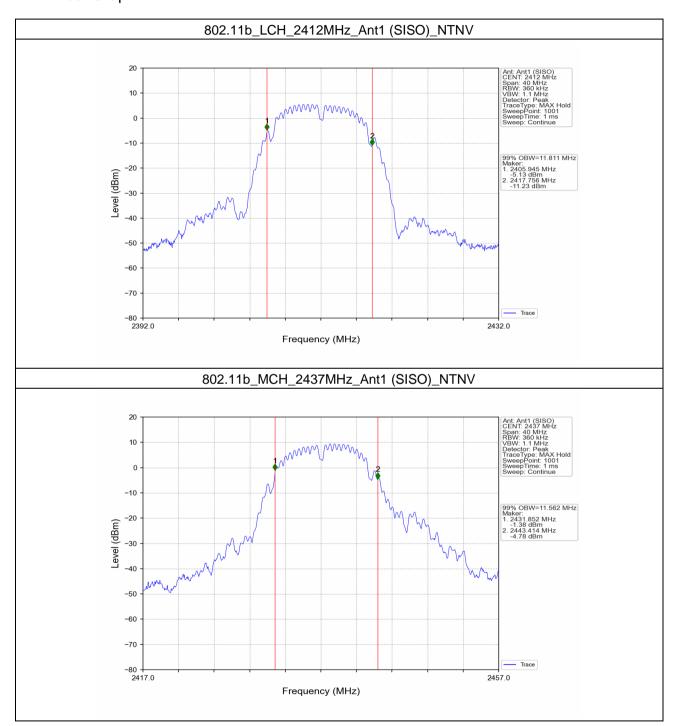


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Page: 87 of 125

#### 2.1.2 Test Graph





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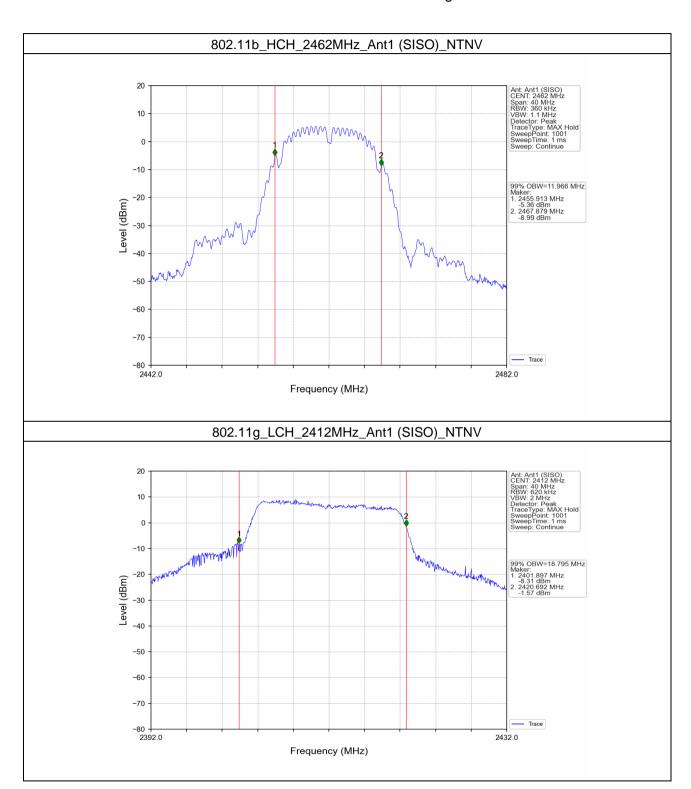
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Report No.: FYCR221000040004

Page: 88 of 125





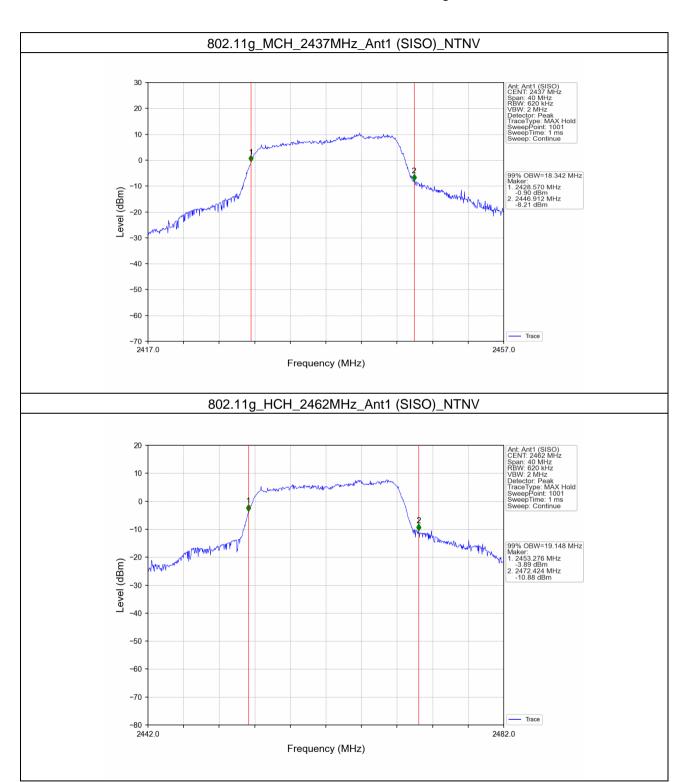
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Page: 89 of 125





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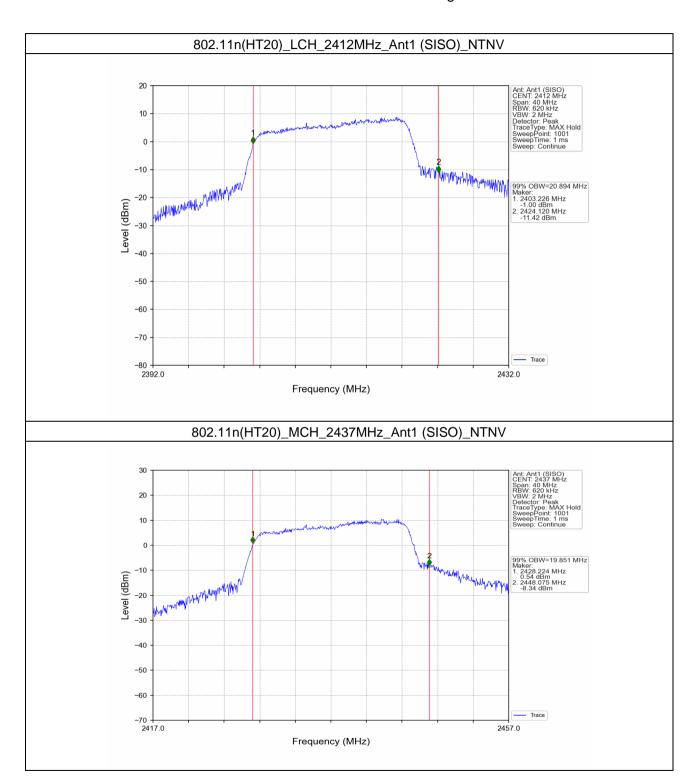
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Page: 90 of 125





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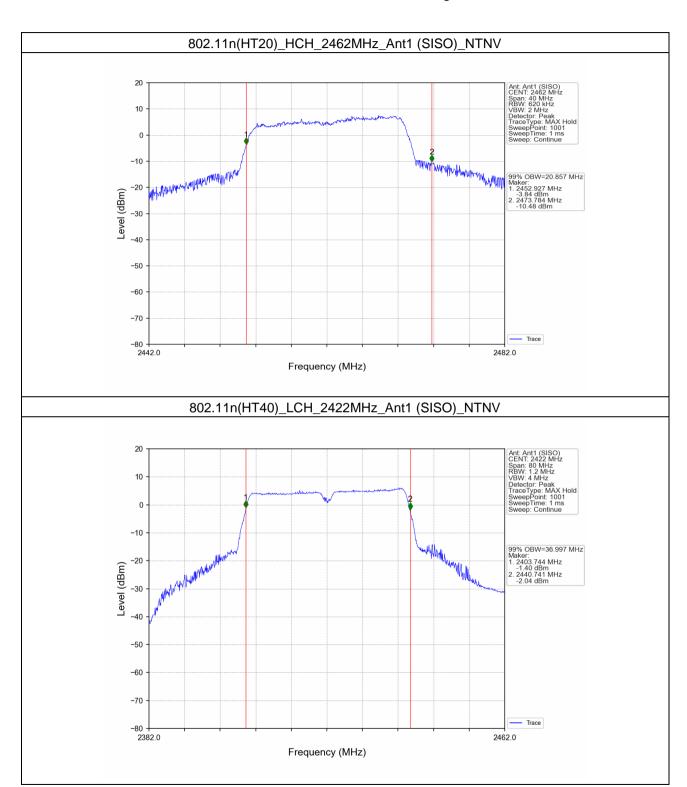
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Page: 91 of 125





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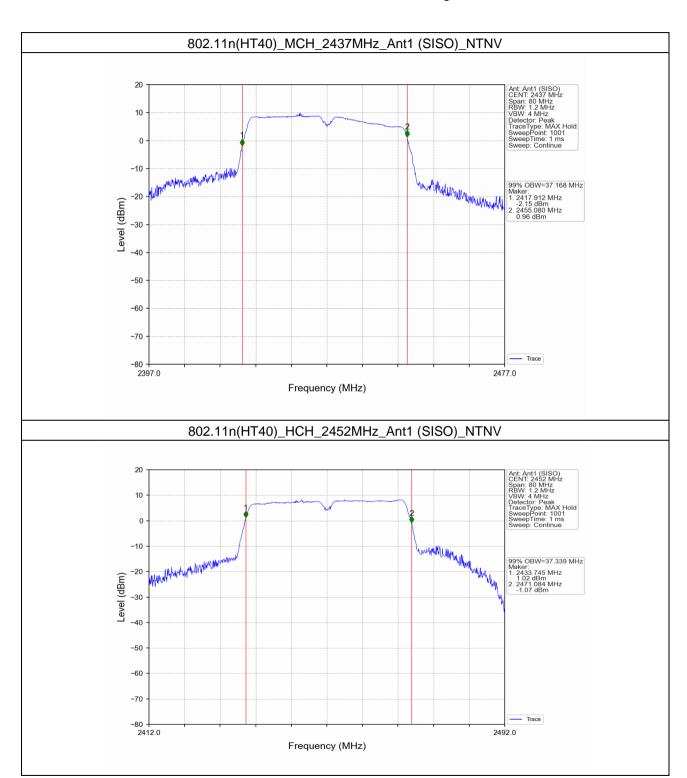
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Page: 92 of 125





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

Report No.: FYCR221000040004

Page: 93 of 125

#### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX	Frequency	ANT	6dB Bandv	Vordict		
Mode	Type	(MHz)	AINT	Result	Limit	Verdict	
		2412	1	9.555	>=0.5	Pass	
802.11b	SISO	2437	1	9.092	>=0.5	Pass	
		2462	1	9.569	>=0.5	Pass	
	SISO	2412	1	15.958	>=0.5	Pass	
802.11g		2437	1	15.792	>=0.5	Pass	
		2462	1	15.808	>=0.5	Pass	
000.44	SISO	2412	1	16.355	>=0.5	Pass	
802.11n (HT20)		2437	1	16.343	>=0.5	Pass	
(11120)		2462	1	16.382	>=0.5	Pass	
000.44	SISO	2422	1	36.132	>=0.5	Pass	
802.11n (HT40)		2437	1	35.737	>=0.5	Pass	
(11140)		2452	1	35.783	>=0.5	Pass	



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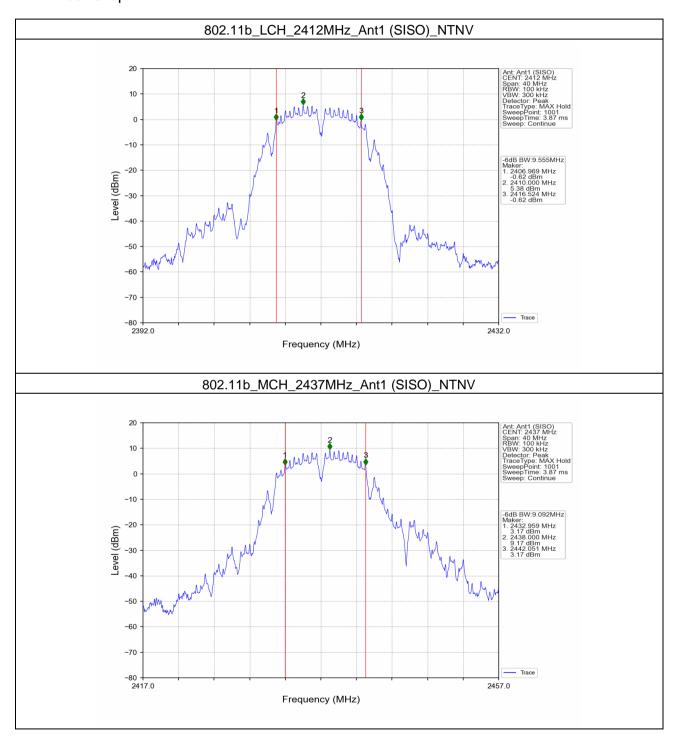


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Report No.: FYCR221000040004

Page: 94 of 125

#### 2.2.2 Test Graph





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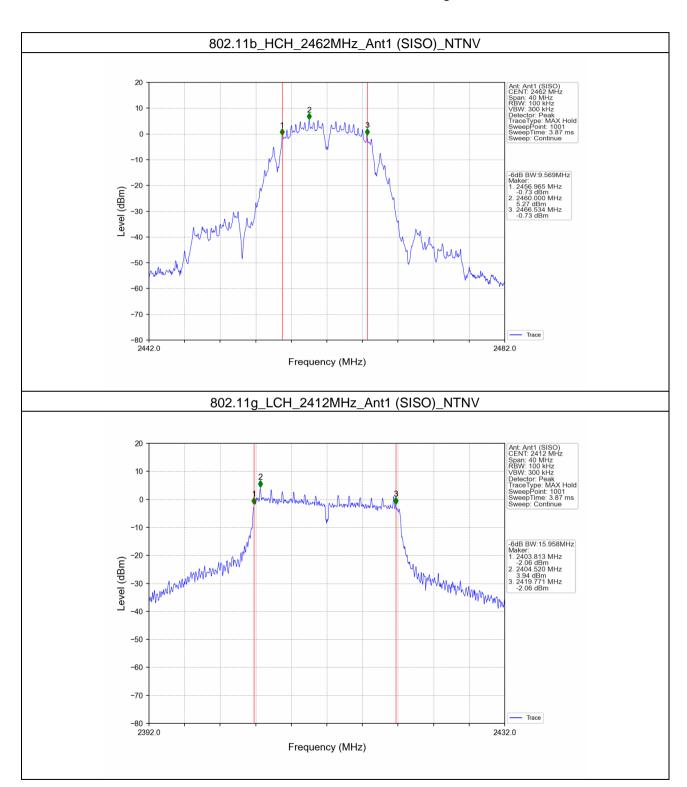
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Page: 95 of 125





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