

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 1 of 291

TEST REPORT

Application No.: FYCR2208000304AT
Applicant: Nokia Shanghai Bell Co., Ltd.
Address of Applicant: 388#, Ningqiao Road, China (Shanghai) Pilot Free Trade Zone, Shanghai 201206, China
Manufacturer: Nokia Solutions and Networks Oy
Address of Manufacturer: Karakaari 7 02610 Espoo Finland
Equipment Under Test (EUT):
EUT Name: Nokia FastMile 5G Gateway 2
Model No.: 5G18-01W-A
Trade Mark: Nokia
FCC ID: 2ADZR5G1801WA
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-08-08
Date of Test: 2022-08-16 to 2022-09-15
Date of Issue: 2022-09-15

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Winkey Wang
EMC Technical Manager



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

Report No.: FYCR220800030401

Page: 2 of 291

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-09-15		Original

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



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

Report No.: FYCR220800030401

Page: 3 of 291

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)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		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



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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T.	6
4.2 DESCRIPTION OF SUPPORT UNITS	7
4.3 MEASUREMENT UNCERTAINTY	8
4.4 TEST LOCATION.....	9
4.5 TEST FACILITY.....	9
4.6 DEVIATION FROM STANDARDS	9
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	9
5 EQUIPMENT LIST.....	10
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	14
6.1 ANTENNA REQUIREMENT	14
6.1.1 Test Requirement:	14
6.1.2 Conclusion	14
7 RADIO SPECTRUM MATTER TEST RESULTS.....	15
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz).....	15
7.1.1 E.U.T. Operation	15
7.1.2 Test Mode Description	15
7.1.3 Test Setup Diagram	16
7.1.4 Measurement Procedure and Data.....	16
7.2 CONDUCTED PEAK OUTPUT POWER	19
7.2.1 E.U.T. Operation	19
7.2.2 Test Mode Description	19
7.2.3 Test Setup Diagram	20
7.2.4 Measurement Procedure and Data.....	20
7.3 MINIMUM 6dB BANDWIDTH.....	21
7.3.1 E.U.T. Operation	21
7.3.2 Test Mode Description	21
7.3.3 Test Setup Diagram	21
7.3.4 Measurement Procedure and Data.....	21
7.4 POWER SPECTRUM DENSITY	22
7.4.1 E.U.T. Operation	22
7.4.2 Test Mode Description	22
7.4.3 Test Setup Diagram	22
7.4.4 Measurement Procedure and Data.....	22
7.5 CONDUCTED BAND EDGES MEASUREMENT	23
7.5.1 E.U.T. Operation	23



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 5 of 291

7.5.2	Test Mode Description.....	23
7.5.3	Test Setup Diagram.....	24
7.5.4	Measurement Procedure and Data.....	24
7.6	CONDUCTED SPURIOUS EMISSIONS.....	25
7.6.1	E.U.T. Operation.....	25
7.6.2	Test Mode Description.....	25
7.6.3	Test Setup Diagram.....	26
7.6.4	Measurement Procedure and Data.....	26
7.7	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	27
7.7.1	E.U.T. Operation.....	27
7.7.2	Test Mode Description.....	27
7.7.3	Test Setup Diagram.....	28
7.7.4	Measurement Procedure and Data.....	29
7.8	RADIATED SPURIOUS EMISSIONS BELOW 1GHZ.....	114
7.8.1	E.U.T. Operation.....	114
7.8.2	Test Mode Description.....	114
7.8.3	Test Setup Diagram.....	115
7.8.4	Measurement Procedure and Data.....	115
7.9	RADIATED SPURIOUS EMISSIONS ABOVE 1GHZ	118
7.9.1	E.U.T. Operation.....	118
7.9.2	Test Mode Description.....	118
7.9.3	Test Setup Diagram.....	119
7.9.4	Measurement Procedure and Data.....	120
8	TEST SETUP PHOTO.....	159
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	160
10	APPENDIX.....	161
10.1	FOR NON-BEAMFORMING:.....	161
10.1.1	Duty Cycle	161
10.1.2	Bandwidth.....	171
10.1.3	6dB BW	181
10.1.4	Maximum Conducted Output Power	191
10.1.5	Maximum Power Spectral Density	192
10.1.6	Unwanted Emissions In Non-restricted Frequency Bands.....	220
10.1.7	CSE	240
10.2	FOR BEAMFORMING:.....	272
10.2.1	Maximum Conducted Output Power	272
10.2.2	Maximum Power Spectral Density	273



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by adapter AC/DC Adapter 1: Model: ADS-24FUA-12B 12024EPCU Input: 100-240V~50/60Hz 0.7A MAX Output: DC 12V 2.0A AC/DC Adapter 2: Model: RD1202000-C55-154MG Input: 100-240V~50/60Hz 1.0A MAX Output: DC 12V 2.0A				
Hardware Version:	3TG02241Bxxx (x:A~Z)				
Software Version:	5GGW2-OMNI-2_D220300B31T0301E0133				
Operation Frequency:	802.11b/g/n/ax(HT20): 2412MHz to 2462MHz; 802.11ax/n(HT40): 2422MHz to 2452MHz				
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK); 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Number of Channels:	802.11b/g/n(HT20)/ax HEW20:11; 802.11n(HT40)/ax HEW40):7				
Channel Spacing:	5MHz				
Antenna Type:	Dipole Antenna				
Antenna Gain:	Frequency (MHz)	TX Antenna gain (dBi)			
		W1	W2	Non-Beamforming gain	Beamforming gain
	2412	5	5	5	6.2
	2442	5.5	5.3	5.5	6.6
	2472	4.4	5.4	5.4	5.7
Antenna MPN:	ANT	MPN of 1st source		MPN of 2nd source	
	W1	VT-WF-1		N03NKACE-PK1-LE1X90BUR1	
	W2	VT-WF-2		N03NKACF-PK1-LW1X120BUR3	

Note:

1. For Beamforming mode, the antenna gain is equal to the Beamforming gain;
2. For non-Beamforming mode, the antenna gain is equal to the non-Beamforming gain;
3. 802.11b/g only supports non-Beamforming mode;
4. 802.11n(HT20)/ n(HT40)/ ax (HEW20)/ ax (HEW40) supports non-Beamforming and Beamforming mode
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 7 of 291

Mode	Frequency (MHz)	Power level setting
802.11b	2412	18.5
	2437	20
	2462	17.5
802.11g	2412	13
	2417	15.5
	2437	18
	2447	14.5
	2452	14.5
	2457	14
	2462	12
802.11n-HT20	2412	14
	2417	15.5
	2437	18
	2447	14.5
	2452	14.5
	2457	14
	2462	11.5
802.11n-HT40	2422	13
	2437	14
	2452	12.5
802.11ax-HEW20	2412	12
	2437	13.5
	2462	11
802.11ax-HEW40	2422	11.5
	2437	12
	2452	11

Note:

For Beamforming and non-Beamforming mode, the antenna gain is less than 9dBi, so for Beamforming and non-Beamforming mode, it shares the same power level setting.

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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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 8 of 291

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Conducted Peak Output Power	± 0.8 dB
Minimum 6dB Bandwidth	$\pm 0.3\%$
Power Spectrum Density	± 0.4 dB
Conducted Band Edges Measurement	± 2.7 dB
Conducted Spurious Emissions	± 2.7 dB
Radiated Emissions which fall in the restricted bands	± 4.4 dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.1 dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4 dB (Above 1GHz)
Remark: The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 9 of 291

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

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

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 6606.01)

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

• FCC –Designation Number: CN1322

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

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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

Report No.: FYCR220800030401

Page: 10 of 291

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
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2022/1/10	2023/1/9

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 11 of 291

Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11

Power Spectrum Density

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11

Conducted Band Edges Measurement

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11



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Report No.: FYCR220800030401

Page: 12 of 291

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
MXA Signal Analyzer	Agilent	N9020A	SEM004-20	2022/7/12	2023/7/11
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2022/7/12	2023/7/11
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
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
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
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/7/12	2023/7/11
Low Noise Amplifier	CLAVIO	BDLNA-0118-352810	SEM005-05	2022/7/12	2023/7/11
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
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



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

Report No.: FYCR220800030401

Page: 13 of 291

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
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
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

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
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
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
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/7/12	2023/7/11
Low Noise Amplifier	CLAVIO	BDLNA-0118-352810	SEM005-05	2022/7/12	2023/7/11
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
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

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



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

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 as the following table:

Non-Beamforming gain	Beamforming gain
5.5	6.6

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 51.6 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

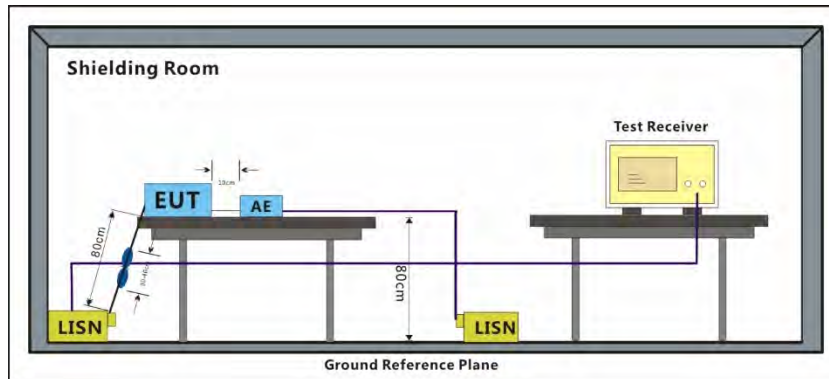
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Adapter 1)_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . All data rates for each modulation type have been tested and found the data 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode(Adapter 2)_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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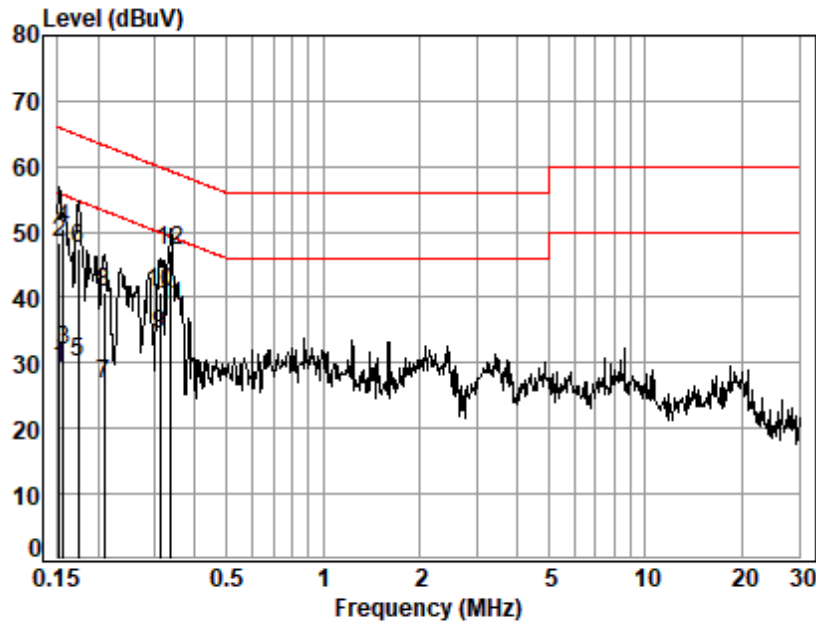
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 17 of 291

Test Mode: 00; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00304AT
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1516	0.02	0.25	28.89	29.16	55.91	Average
2	0.1516	0.02	0.25	48.19	48.46	65.91	QP
3	0.1557	0.02	0.25	31.66	31.93	55.69	Average
4	0.1557	0.02	0.25	50.27	50.54	65.69	QP
5	0.1740	0.02	0.25	29.71	29.98	54.77	Average
6	0.1740	0.02	0.25	47.08	47.35	64.77	QP
7	0.2094	0.02	0.26	26.52	26.80	53.23	Average
8	0.2094	0.02	0.26	40.49	40.77	63.23	QP
9	0.3116	0.03	0.26	34.08	34.37	49.93	Average
10	0.3116	0.03	0.26	40.38	40.67	59.93	QP
11	0.3374	0.03	0.27	38.28	38.58	49.27	Average
12	0.3374	0.03	0.27	46.94	47.24	59.27	QP



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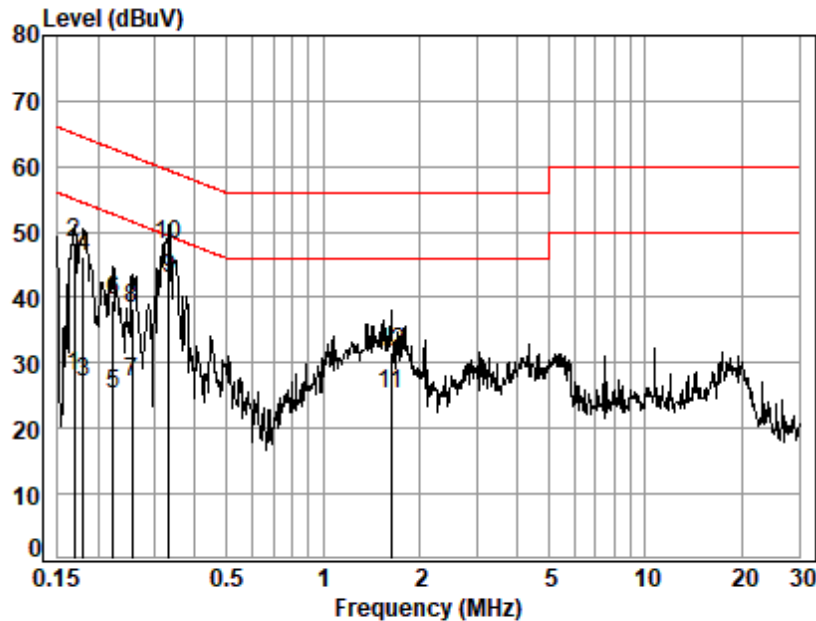
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 18 of 291

Test Mode: 00; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00304AT
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1685	0.02	0.30	27.64	27.96	55.03	Average
2	0.1685	0.02	0.30	47.97	48.29	65.03	QP
3	0.1796	0.02	0.30	26.64	26.96	54.50	Average
4	0.1796	0.02	0.30	45.82	46.14	64.50	QP
5	0.2232	0.02	0.29	24.82	25.13	52.70	Average
6	0.2232	0.02	0.29	39.18	39.49	62.70	QP
7	0.2548	0.03	0.28	26.61	26.92	51.60	Average
8	0.2548	0.03	0.28	38.10	38.41	61.60	QP
9	0.3321	0.03	0.28	42.52	42.83	49.40	Average
10	0.3321	0.03	0.28	47.75	48.06	59.40	QP
11	1.6190	0.02	0.11	25.13	25.26	46.00	Average
12	1.6190	0.02	0.11	31.51	31.64	56.00	QP



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 19 of 291

7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	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: 25.2 °C

Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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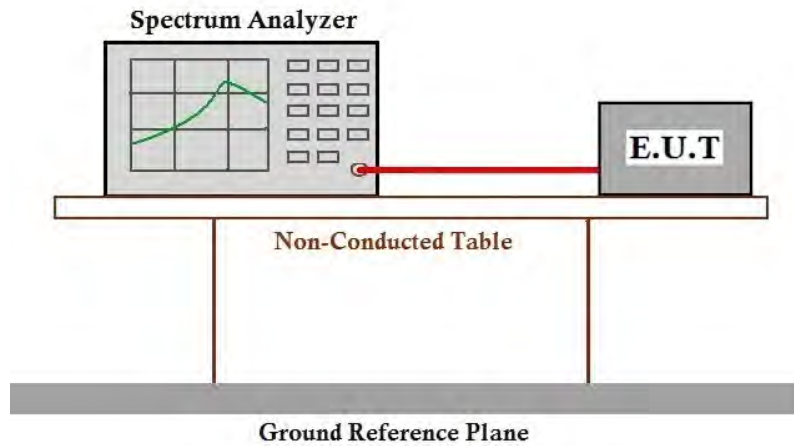
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 20 of 291

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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

Report No.: FYCR220800030401

Page: 21 of 291

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: 25.2 °C

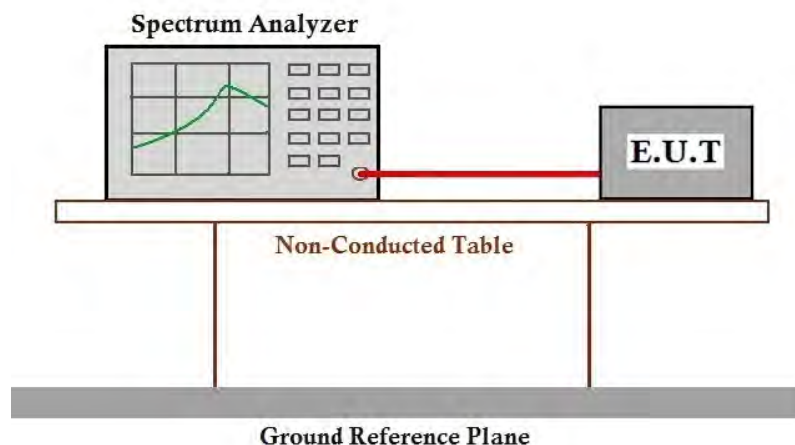
Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). 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.: FYCR220800030401

Page: 22 of 291

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: 25.2 °C

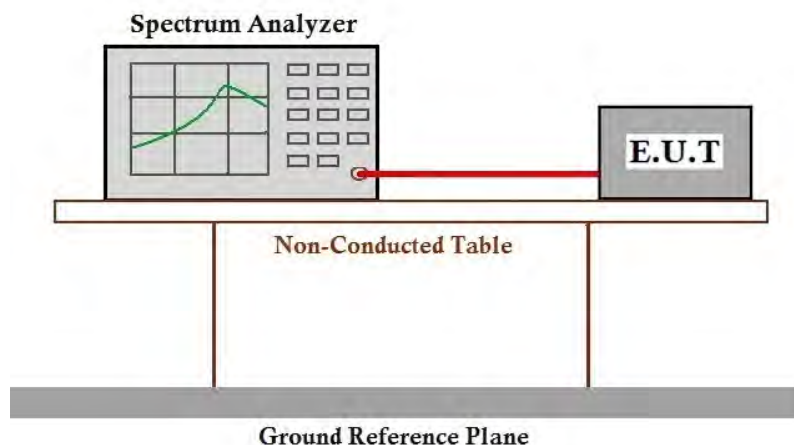
Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). 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.: FYCR220800030401

Page: 23 of 291

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: 25.2 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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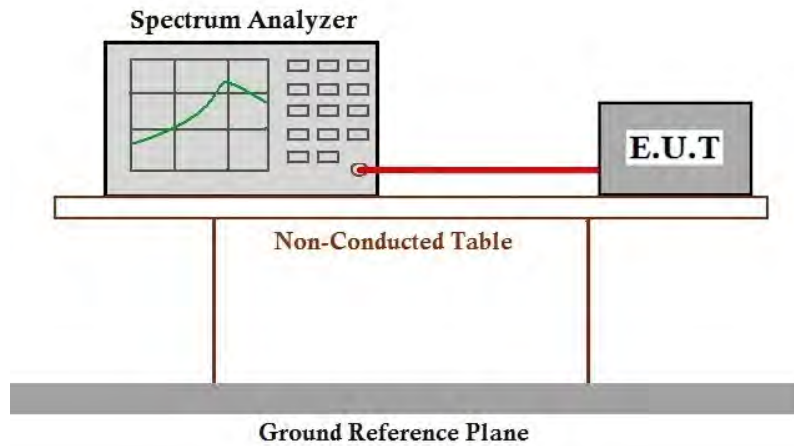
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 24 of 291

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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

Report No.: FYCR220800030401

Page: 25 of 291

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: 25.2 °C

Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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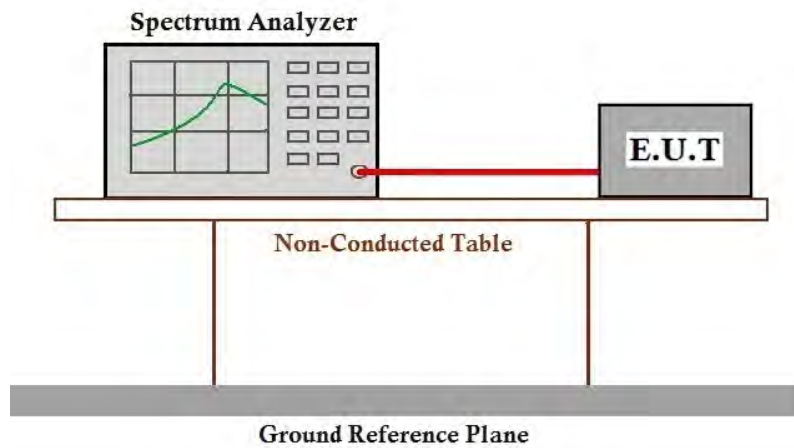
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 26 of 291

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.: FYCR220800030401

Page: 27 of 291

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: 22.2 °C Humidity: 52.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Adapter 1; 1st source antenna)_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.
Final test	06	TX mode(Adapter 2; 2nd source antenna)_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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



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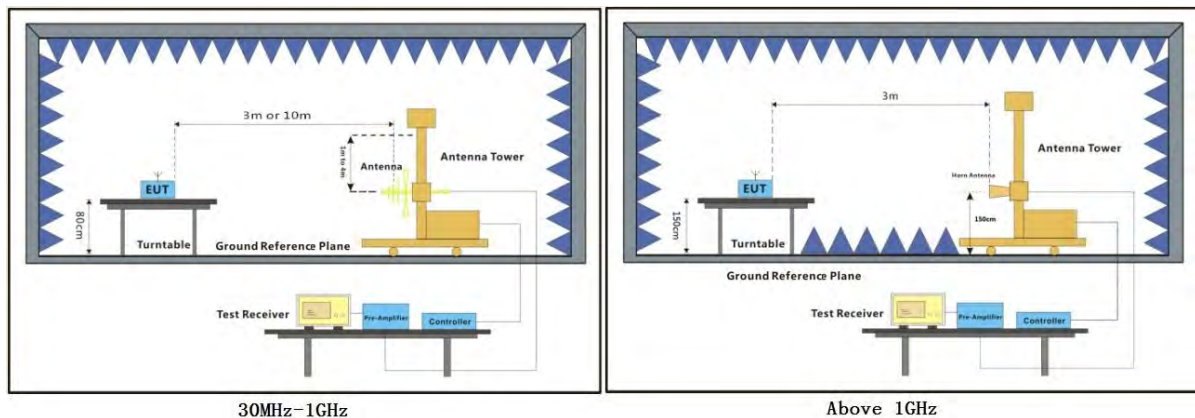
Report No.: FYCR220800030401

Page: 28 of 291

	802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.
--	---

Remark: the EUT have two different manufacturers of antennas: The 1st source antennas (W1: VT-WF-1; W2: VT-WF-2) was performed full testing, the 2nd source antennas (W1: N03NKACE-PK1-LE1X90BUR1; W2: N03NKACF-PK1-LW1X120BUR3) was performed the worst mode of testing according to the applicant declare that the antenna specifications are the same.

7.7.3 Test Setup Diagram



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

Report No.: FYCR220800030401

Page: 29 of 291

7.7.4 Measurement Procedure and Data

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

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



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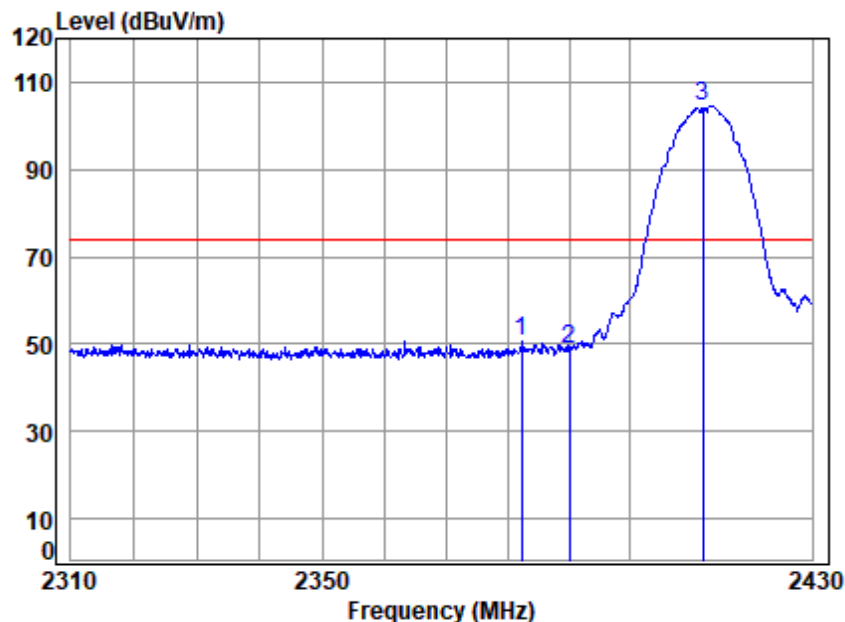
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 30 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2382.2350	5.05	27.14	32.50	51.16	50.85	74.00	-23.15	peak
2	2390.0000	5.05	27.16	32.50	49.00	48.71	74.00	-25.29	peak
3	2412.0000	5.07	27.21	32.50	104.77	104.55	74.00	30.55	peak



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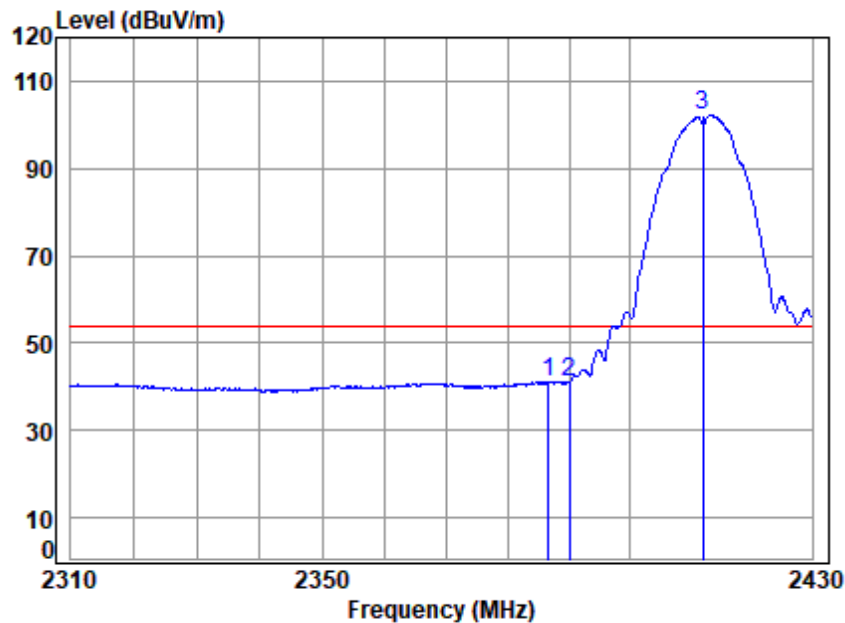
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 31 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	2386.7030	5.05	27.15	32.50	41.47	41.17	54.00	-12.83 Average
2	2390.0000	5.05	27.16	32.50	41.20	40.91	54.00	-13.09 Average
3	2412.0000	5.07	27.21	32.50	102.33	102.11	54.00	48.11 Average



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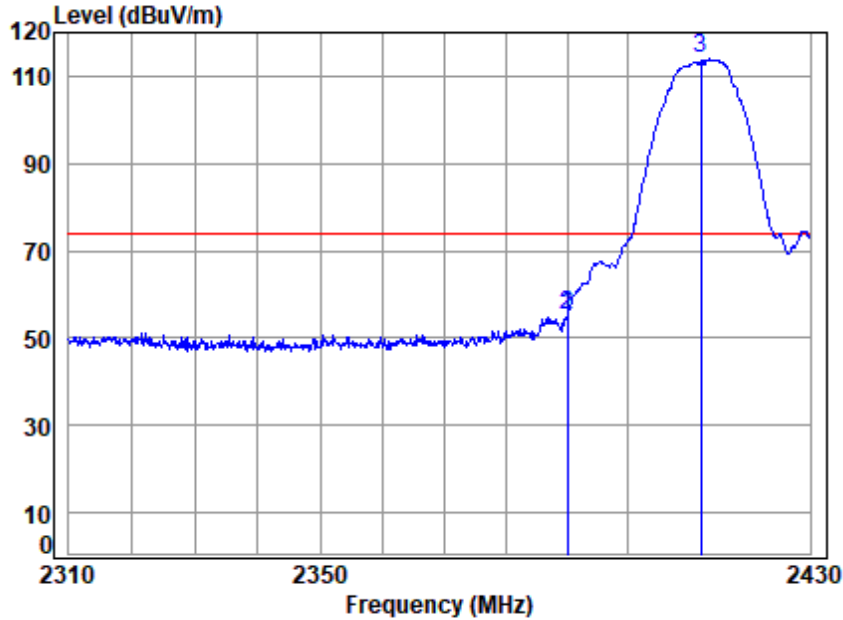
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 32 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		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 2389.9680	5.05	27.16	32.50	55.43	55.14	74.00	-18.86	Peak
2 2390.0000	5.05	27.16	32.50	55.43	55.14	74.00	-18.86	Peak
3 2412.0000	5.07	27.21	32.50	114.17	113.95	74.00	39.95	Peak



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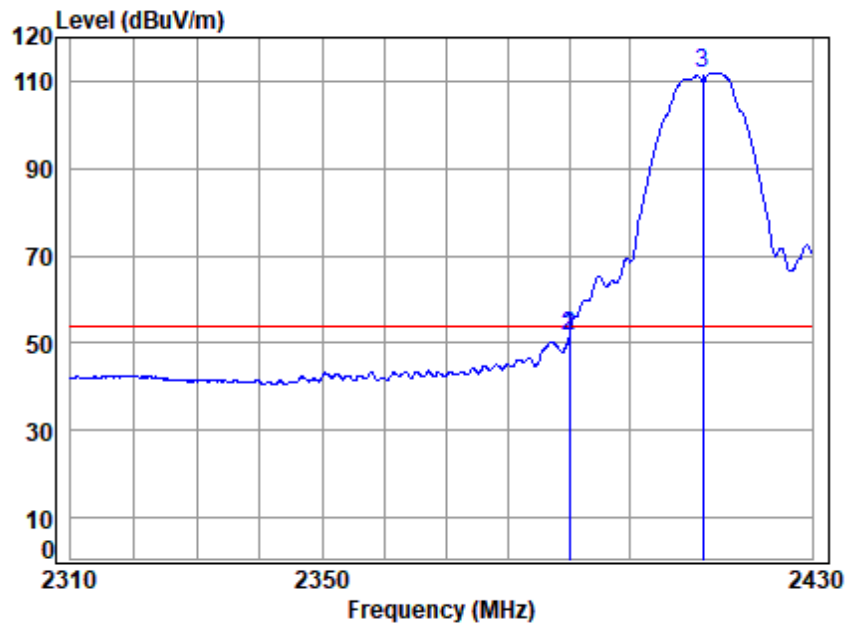
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 33 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11B

		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 2389.9680	5.05	27.16	32.50	51.99	51.70	54.00	-2.30	Average
2 2390.0000	5.05	27.16	32.50	51.99	51.70	54.00	-2.30	Average
3 2412.0000	5.07	27.21	32.50	112.02	111.80	54.00	57.80	Average



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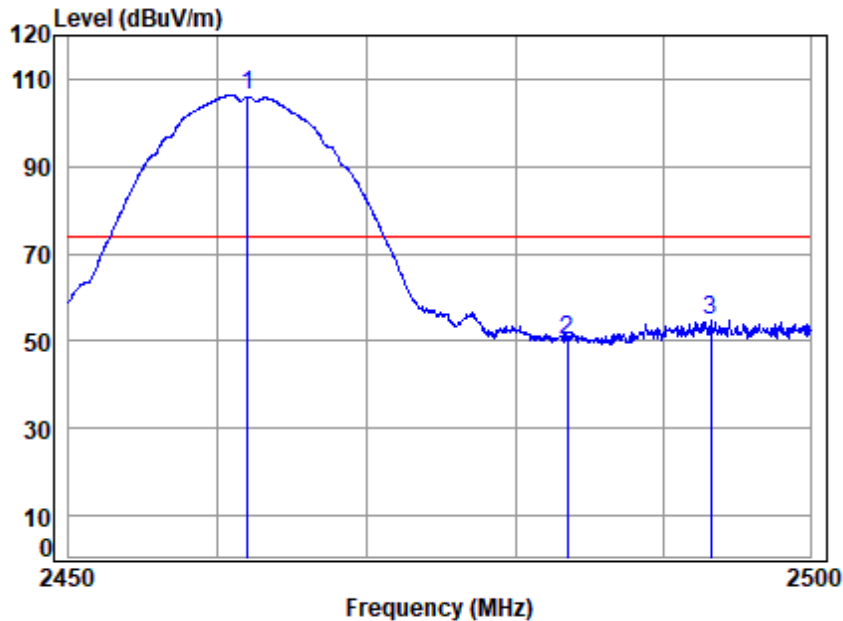
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 34 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

		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	2462.0000	5.10	27.32	32.50	106.40	106.32	74.00	32.32	peak
2	2483.5000	5.12	27.36	32.50	50.43	50.41	74.00	-23.59	peak
3	2493.2410	5.13	27.39	32.50	54.70	54.72	74.00	-19.28	peak



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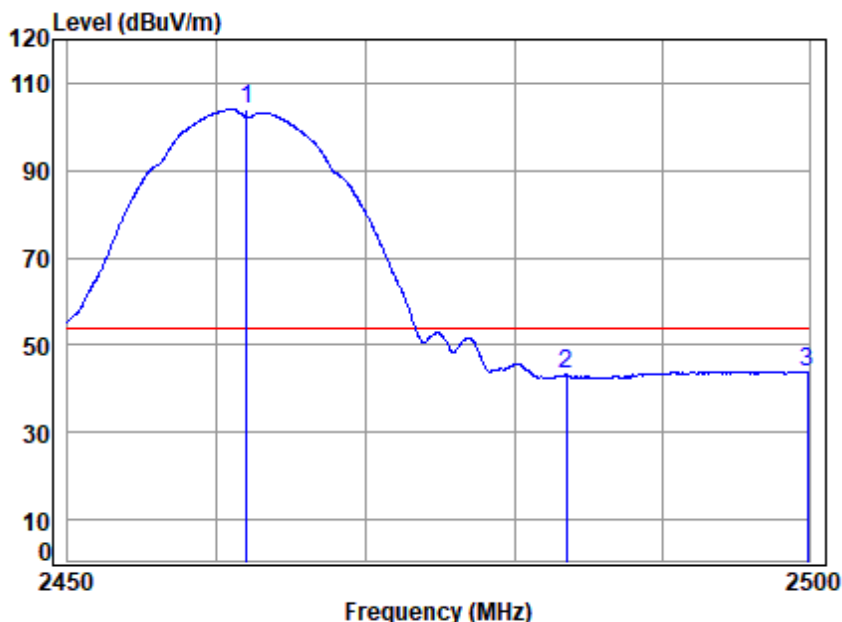
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 35 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

		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	2462.0000	5.10	27.32	32.50	104.08	104.00	54.00	50.00	Average
2	2483.5000	5.12	27.36	32.50	43.15	43.13	54.00	-10.87	Average
3	2499.8990	5.13	27.40	32.50	43.97	44.00	54.00	-10.00	Average



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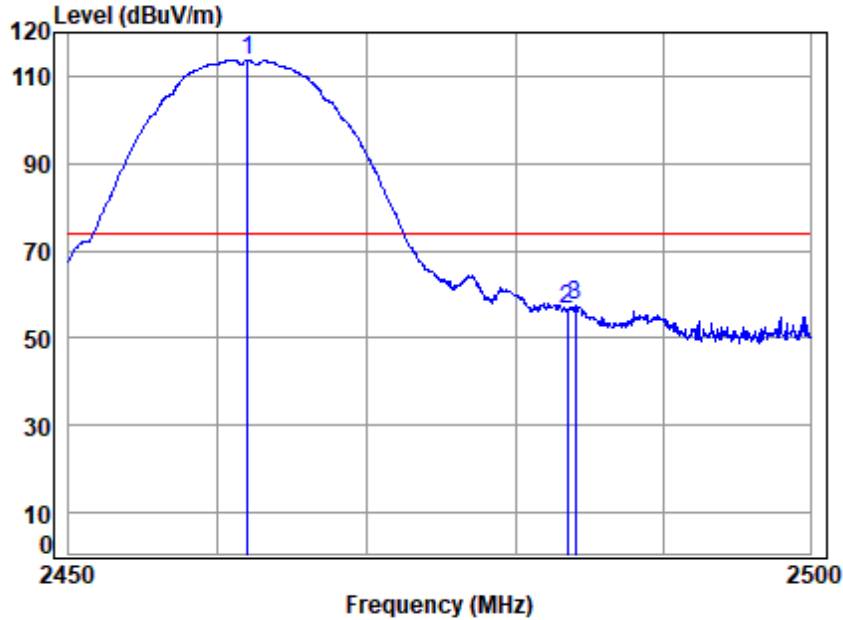
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 36 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

		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	2462.0000	5.10	27.32	32.50	113.80	113.72	74.00	39.72 Peak
2	2483.5000	5.12	27.36	32.50	56.46	56.44	74.00	-17.56 Peak
3	2484.0910	5.12	27.37	32.50	57.32	57.31	74.00	-16.69 Peak



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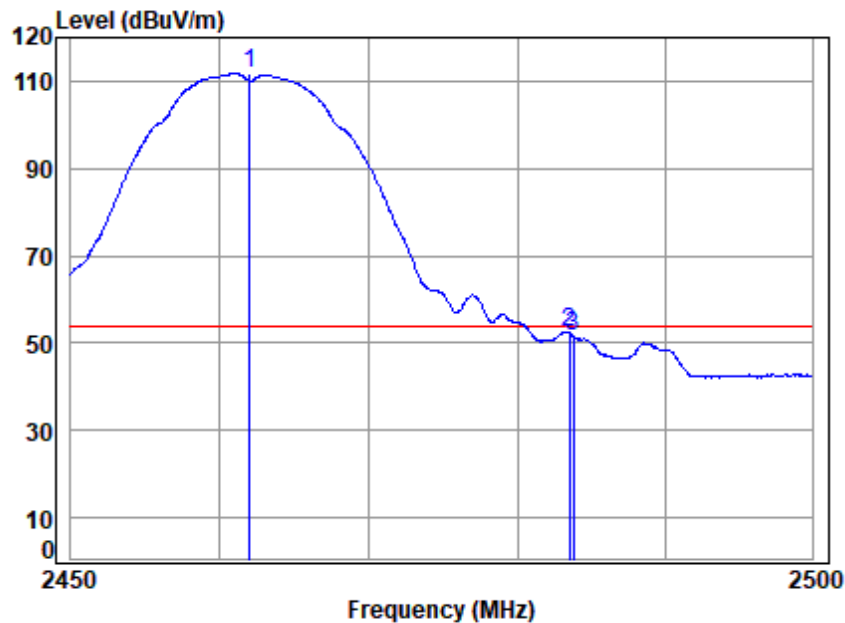
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 37 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11B

		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	2462.0000	5.10	27.32	32.50	111.82	111.74	54.00	57.74 Average
2	2483.5000	5.12	27.36	32.50	52.35	52.33	54.00	-1.67 Average
3	2483.7900	5.12	27.37	32.50	51.60	51.59	54.00	-2.41 Average



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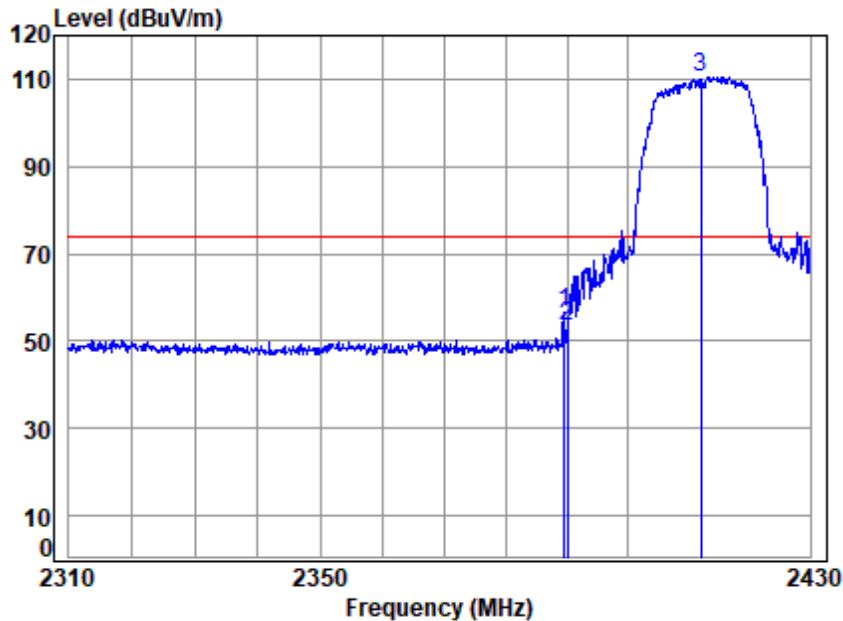
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 38 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		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 2389.4840	5.05	27.16	32.50	56.75	56.46	74.00	-17.54	peak
2 2390.0000	5.05	27.16	32.50	53.53	53.24	74.00	-20.76	peak
3 2412.0000	5.07	27.21	32.50	110.84	110.62	74.00	36.62	peak



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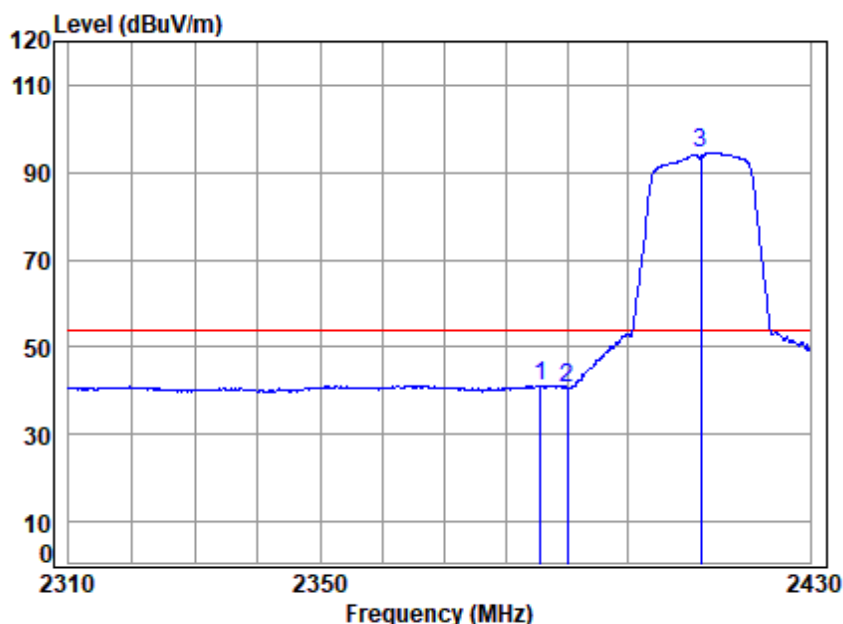
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 39 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2385.7360	5.05	27.15	32.50	41.59	41.29	54.00	-12.71 Average
2	2390.0000	5.05	27.16	32.50	41.02	40.73	54.00	-13.27 Average
3	2412.0000	5.07	27.21	32.50	94.79	94.57	54.00	40.57 Average



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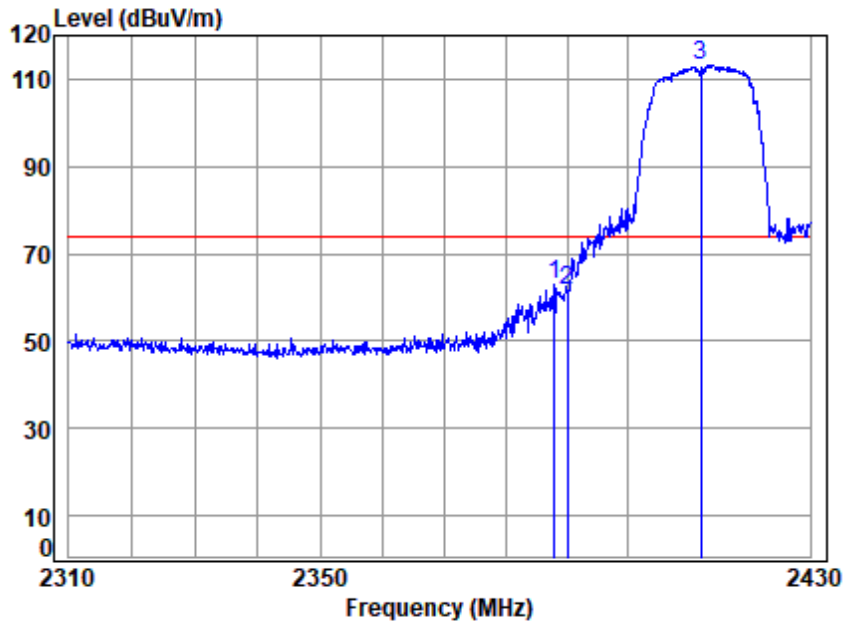
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 40 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

		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 2387.9120	5.05	27.15	32.50	63.27	62.97	74.00	-11.03	Peak
2 2390.0000	5.05	27.16	32.50	62.04	61.75	74.00	-12.25	Peak
3 2412.0000	5.07	27.21	32.50	113.60	113.38	74.00	39.38	Peak



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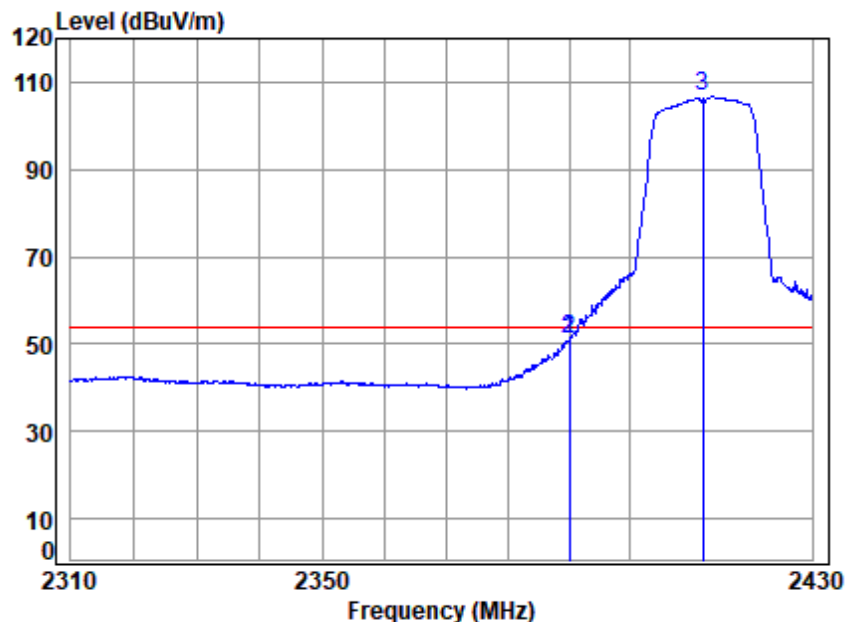
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 41 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.9680	5.05	27.16	32.50	51.20	50.91	54.00	-3.09	Average
2	2390.0000	5.05	27.16	32.50	51.20	50.91	54.00	-3.09	Average
3	2412.0000	5.07	27.21	32.50	106.86	106.64	54.00	52.64	Average



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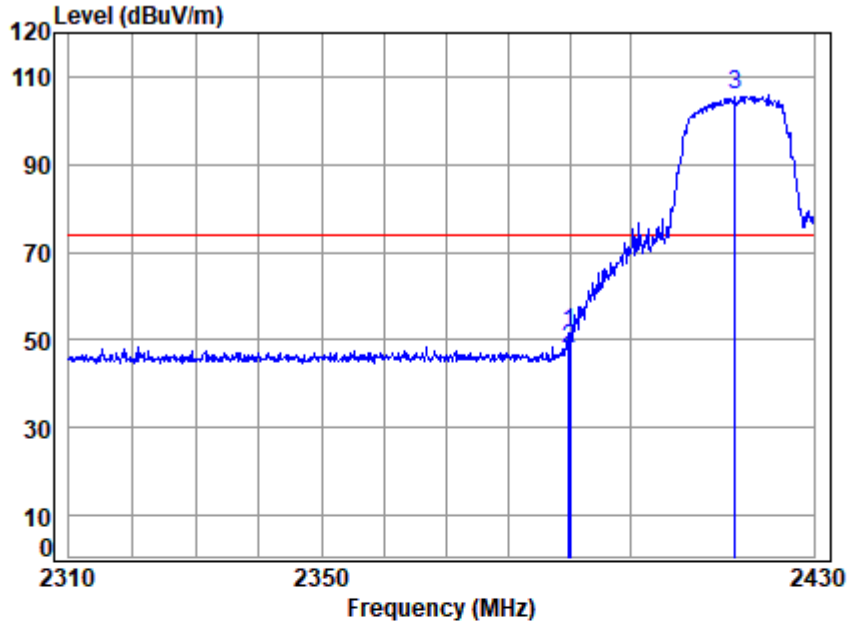
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 42 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2417 Band edge
Note : 2.4G WIFI 11G

		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	2389.8470	5.05	27.16	32.50	51.70	51.41	74.00	-22.59	peak
2	2390.0000	5.05	27.16	32.50	48.10	47.81	74.00	-26.19	peak
3	2417.0000	5.07	27.22	32.50	105.97	105.76	74.00	31.76	peak



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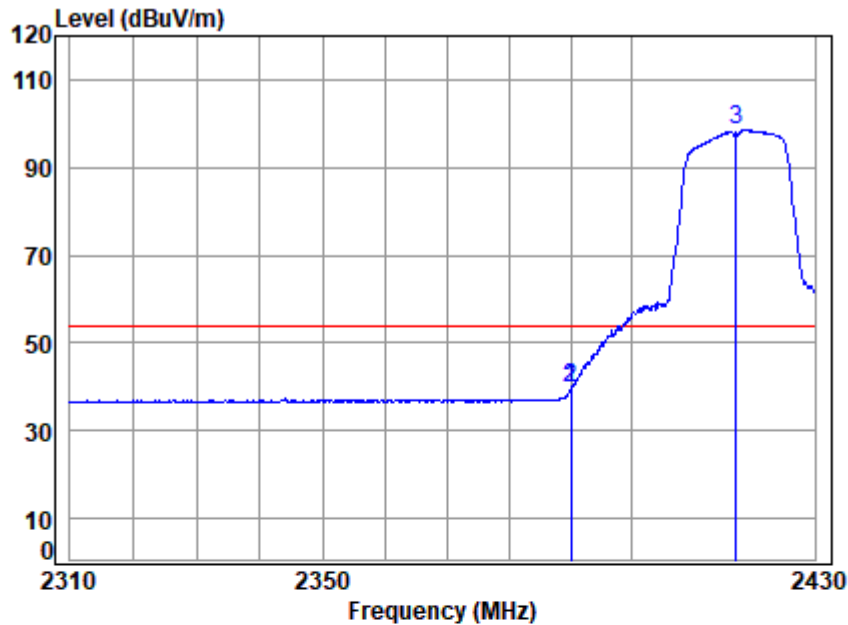
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 43 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2417 Band edge
Note : 2.4G WIFI 11G

		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	2389.9680	5.05	27.16	32.50	39.83	39.54	54.00	-14.46	Average
2	2390.0000	5.05	27.16	32.50	39.83	39.54	54.00	-14.46	Average
3	2417.0000	5.07	27.22	32.50	98.74	98.53	54.00	44.53	Average



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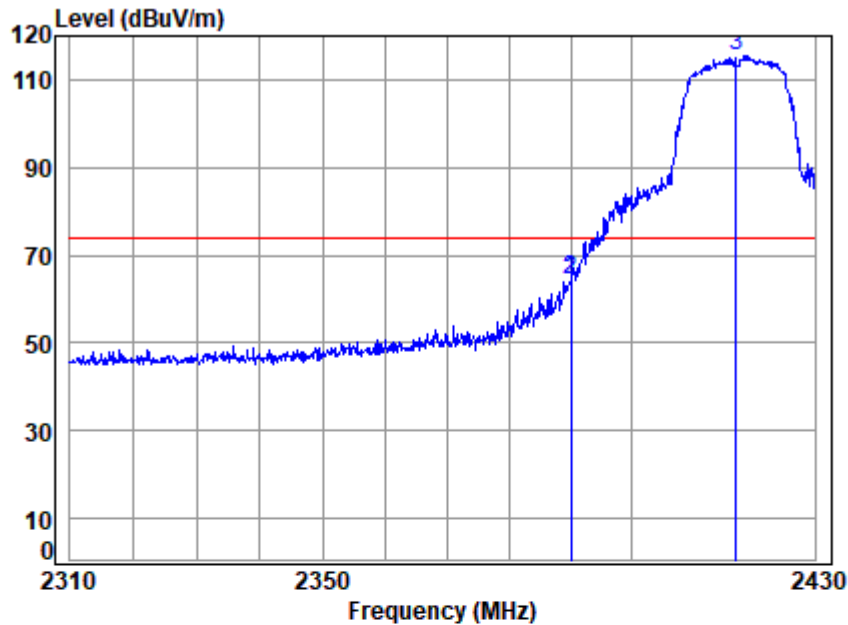
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 44 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2417 Band edge
Note : 2.4G WIFI 11G

		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	2389.9680	5.05	27.16	32.50	64.85	64.56	74.00	-9.44	Peak
2	2390.0000	5.05	27.16	32.50	64.85	64.56	74.00	-9.44	Peak
3	2417.0000	5.07	27.22	32.50	115.73	115.52	74.00	41.52	Peak



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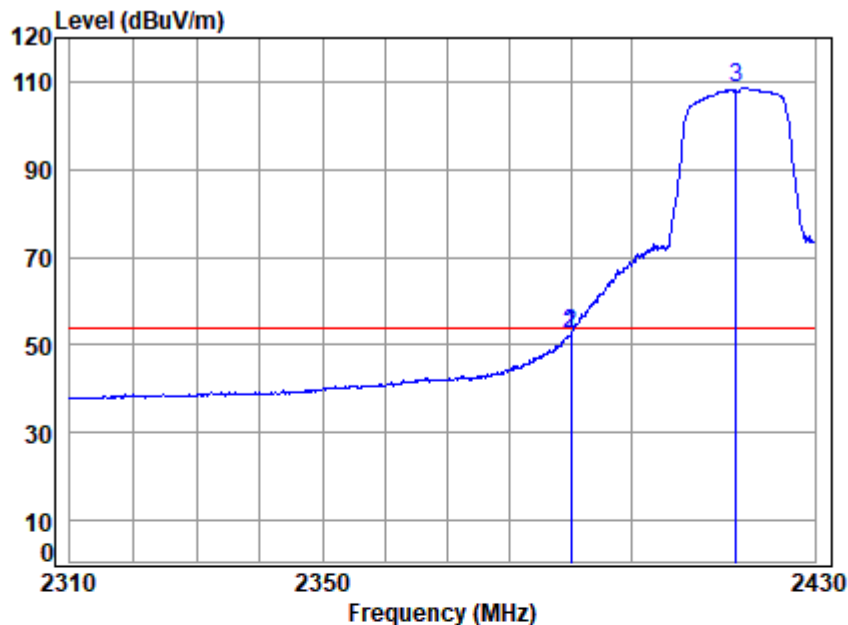
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 45 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2417 Band edge
Note : 2.4G WIFI 11G

		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	2389.9680	5.05	27.16	32.50	52.90	52.61	54.00	-1.39	Average
2	2390.0000	5.05	27.16	32.50	52.90	52.61	54.00	-1.39	Average
3	2417.0000	5.07	27.22	32.50	108.78	108.57	54.00	54.57	Average



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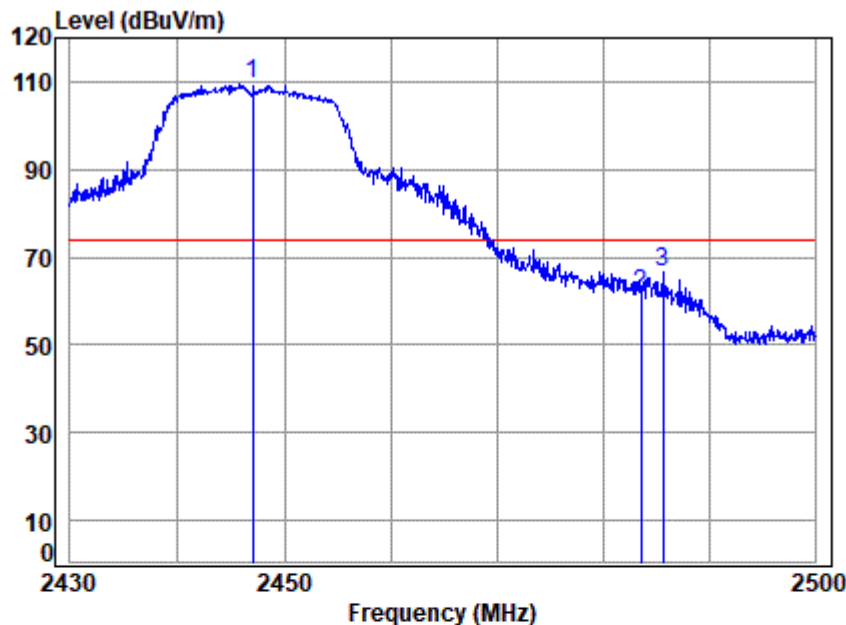
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 46 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2447 Band edge
Note : 2.4G WIFI 11G

		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	2447.0000	5.09	27.28	32.50	109.46	109.33	74.00	35.33	peak
2	2483.5000	5.12	27.36	32.50	61.53	61.51	74.00	-12.49	peak
3	2485.5580	5.12	27.37	32.50	66.52	66.51	74.00	-7.49	peak



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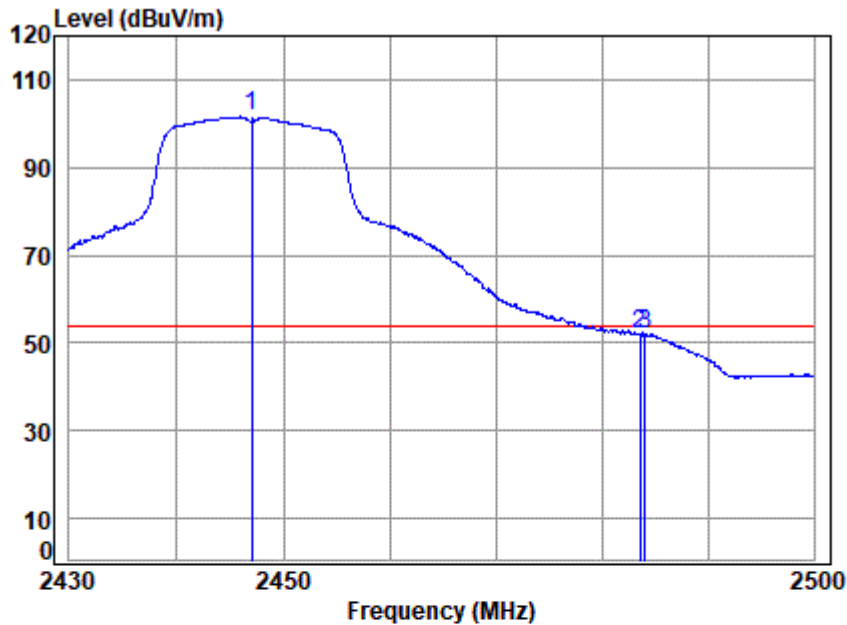
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 47 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2447 Band edge
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2447.0000	5.09	27.28	32.50	101.70	101.57	54.00	47.57	Average
2	2483.5000	5.12	27.36	32.50	52.13	52.11	54.00	-1.89	Average
3	2483.9350	5.12	27.37	32.50	52.21	52.20	54.00	-1.80	Average



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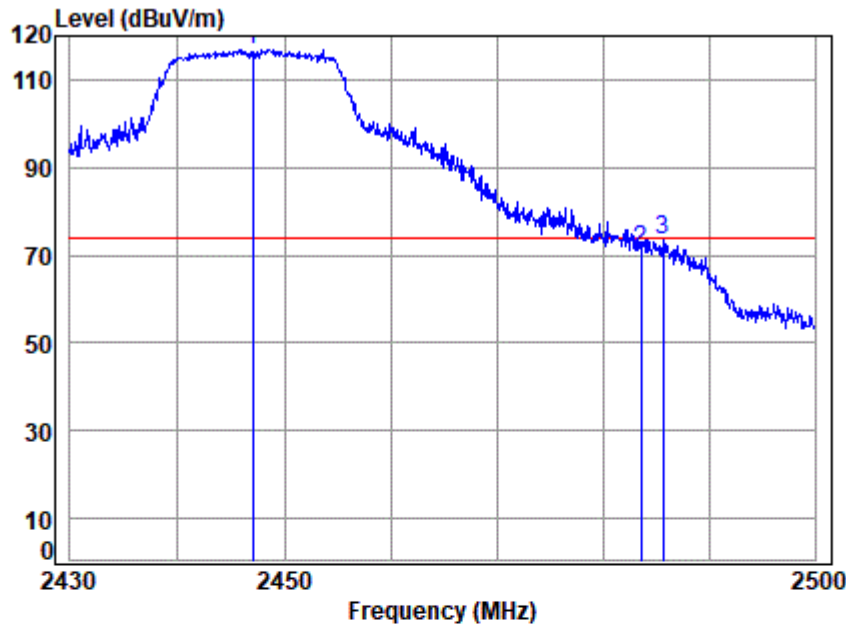
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 48 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2447 Band edge
Note : 2.4G WIFI 11G

		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	2447.0000	5.09	27.28	32.50	117.07	116.94	74.00	42.94	Peak
2	2483.5000	5.12	27.36	32.50	71.06	71.04	74.00	-2.96	Peak
3	2485.5580	5.12	27.37	32.50	73.58	73.57	74.00	-0.43	Peak



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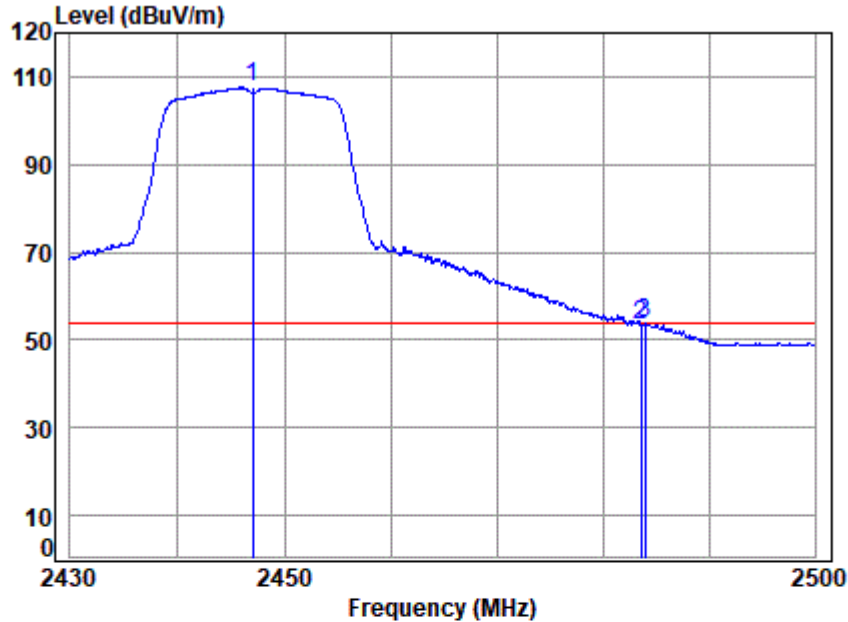
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 49 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2447 Band edge
Note : 2.4G WIFI 11G

		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	2447.0000	5.09	27.28	32.50	107.64	107.51	54.00	53.51	Average
2	2483.5000	5.12	27.36	32.50	53.39	53.37	54.00	-0.63	Average
3	2483.8650	5.12	27.37	32.50	53.92	53.91	54.00	-0.09	Average



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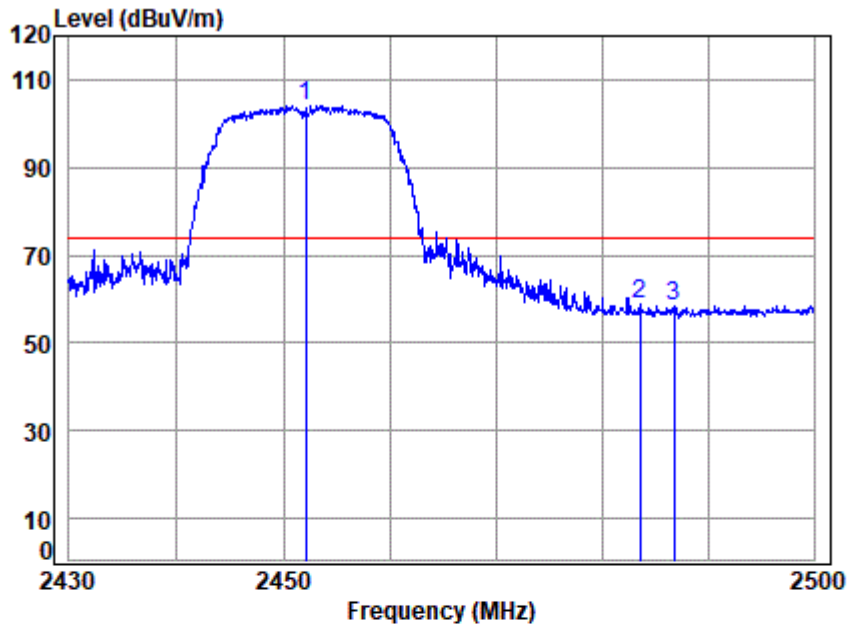
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 50 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11G

		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	2452.0000	5.10	27.30	32.50	104.29	104.19	74.00	30.19	peak
2	2483.5000	5.12	27.36	32.50	58.72	58.70	74.00	-15.30	peak
3	2486.6880	5.12	27.37	32.50	58.59	58.58	74.00	-15.42	peak



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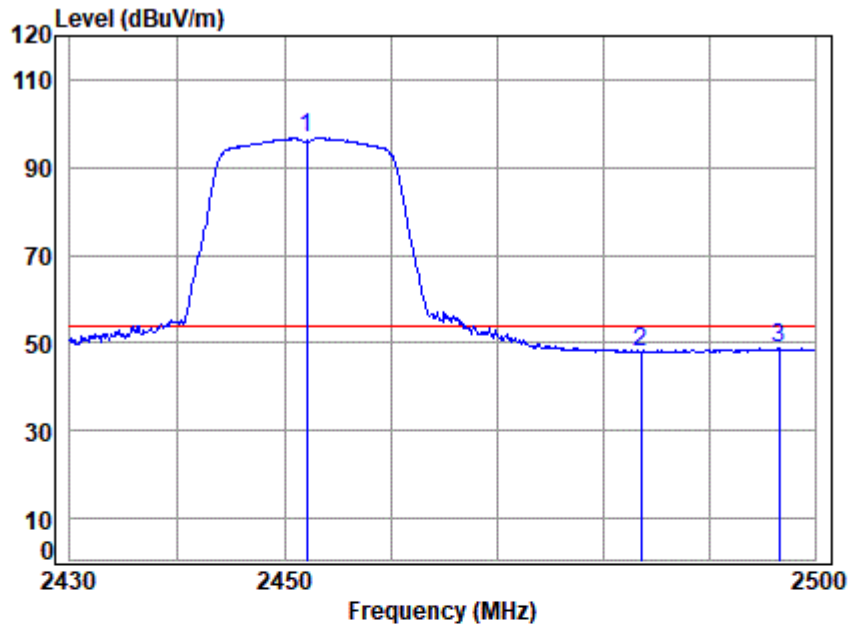
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 51 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.0000	5.10	27.30	32.50	96.76	96.66	54.00	42.66	Average
2	2483.5000	5.12	27.36	32.50	48.14	48.12	54.00	-5.88	Average
3	2496.5940	5.13	27.39	32.50	48.69	48.71	54.00	-5.29	Average



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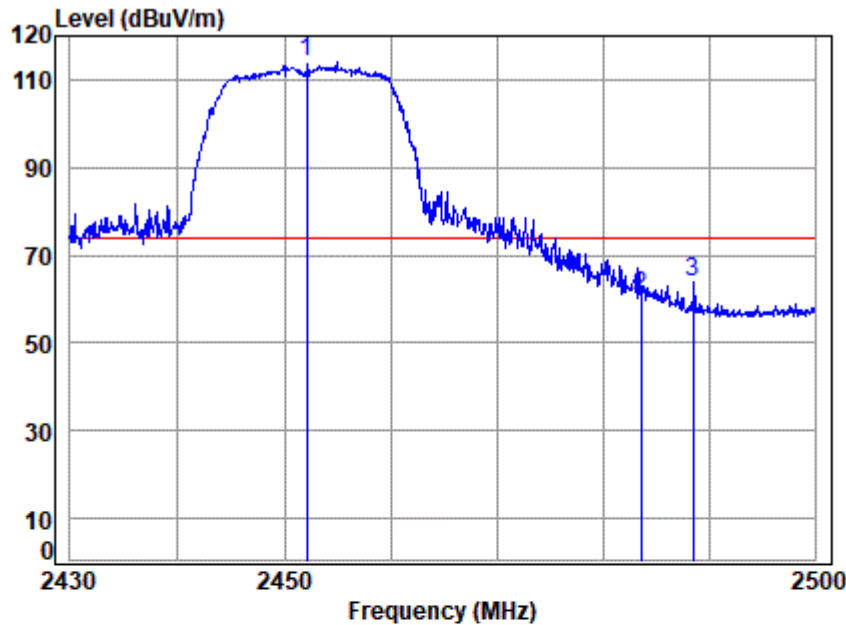
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 52 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11G

		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	2452.0000	5.10	27.30	32.50	113.98	113.88	74.00	39.88	Peak
2	2483.5000	5.12	27.36	32.50	60.93	60.91	74.00	-13.09	Peak
3	2488.4540	5.12	27.38	32.50	63.93	63.93	74.00	-10.07	Peak



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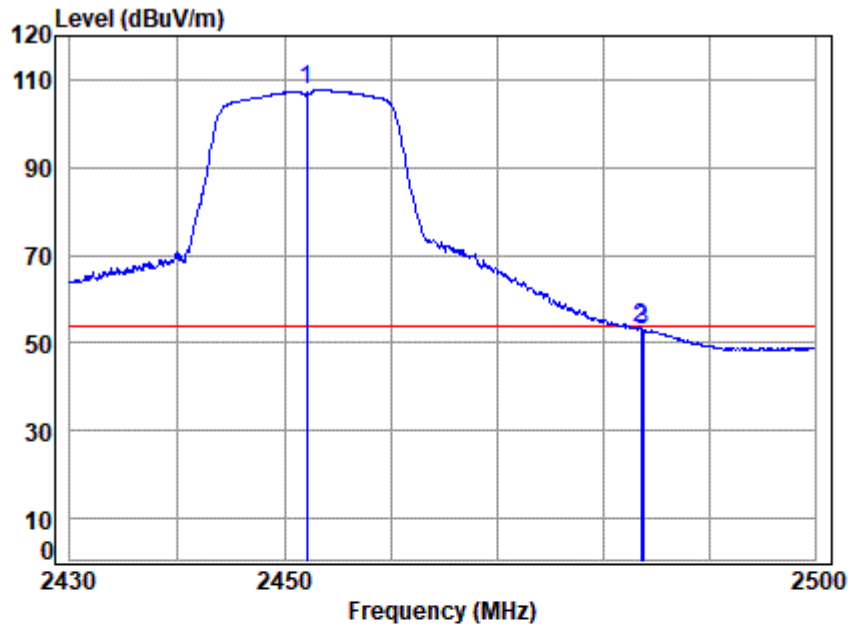
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 53 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.0000	5.10	27.30	32.50	107.81	107.71	54.00	53.71	Average
2	2483.5000	5.12	27.36	32.50	53.48	53.46	54.00	-0.54	Average
3	2483.6530	5.12	27.36	32.50	53.14	53.12	54.00	-0.88	Average



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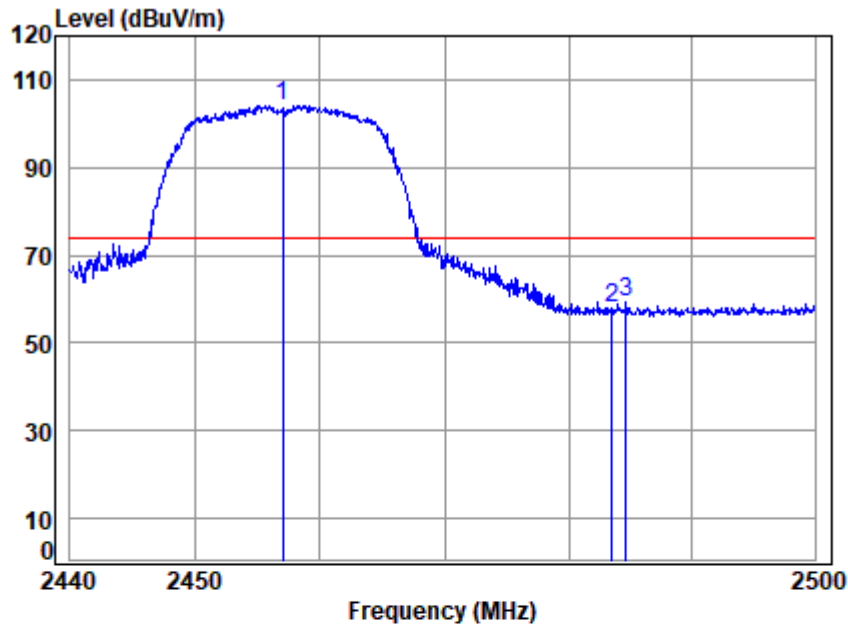
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 54 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2457 Band edge
Note : 2.4G WIFI 11G

		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	2457.0000	5.10	27.31	32.50	104.31	104.22	74.00	30.22	peak
2	2483.5000	5.12	27.36	32.50	57.96	57.94	74.00	-16.06	peak
3	2484.6820	5.12	27.37	32.50	59.45	59.44	74.00	-14.56	peak



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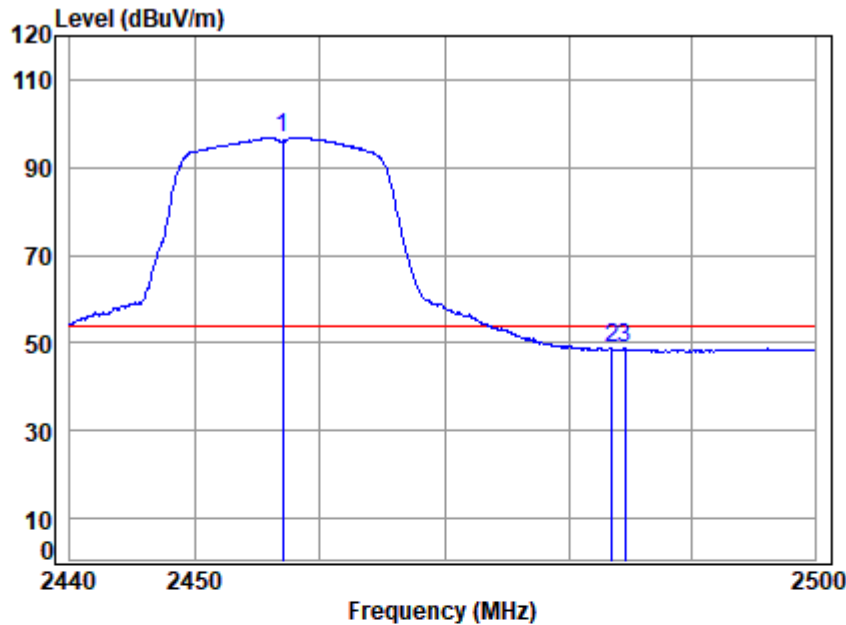
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 55 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2457 Band edge
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2457.0000	5.10	27.31	32.50	96.95	96.86	54.00	42.86 Average
2	2483.5000	5.12	27.36	32.50	48.79	48.77	54.00	-5.23 Average
3	2484.5610	5.12	27.37	32.50	48.72	48.71	54.00	-5.29 Average



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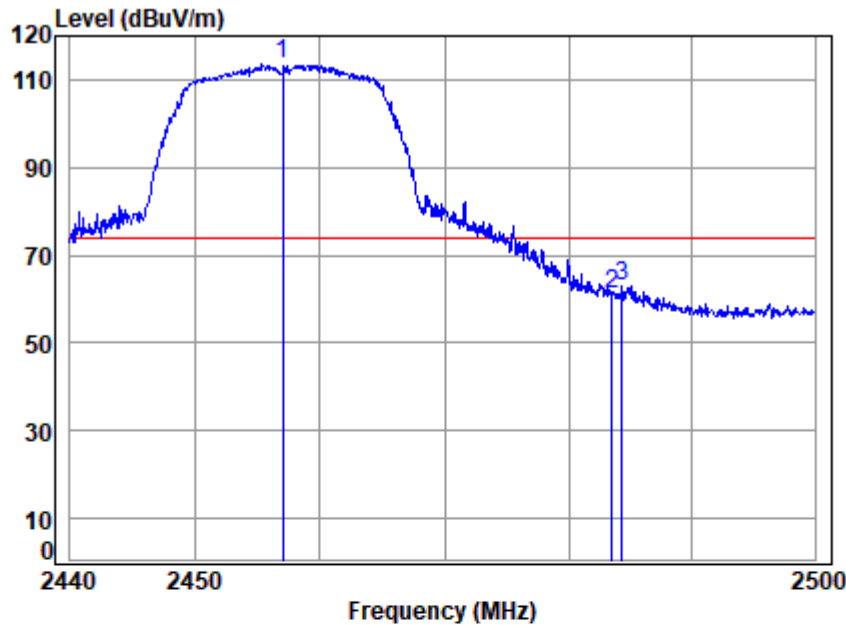
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 56 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2457 Band edge
Note : 2.4G WIFI 11G

		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	2457.0000	5.10	27.31	32.50	113.52	113.43	74.00	39.43	Peak
2	2483.5000	5.12	27.36	32.50	61.02	61.00	74.00	-13.00	Peak
3	2484.3200	5.12	27.37	32.50	62.87	62.86	74.00	-11.14	Peak



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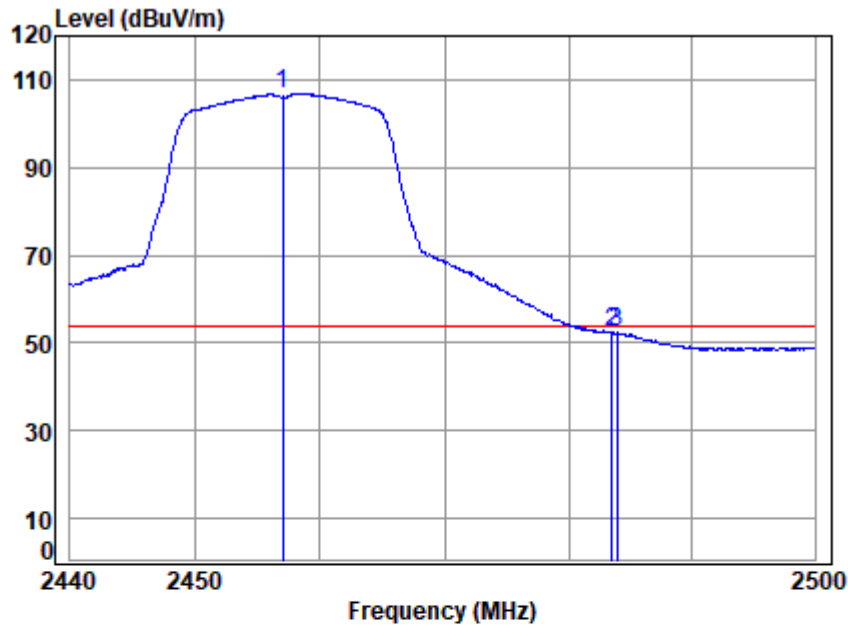
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 57 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2457 Band edge
Note : 2.4G WIFI 11G

		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	2457.0000	5.10	27.31	32.50	107.04	106.95	54.00	52.95	Average
2	2483.5000	5.12	27.36	32.50	52.37	52.35	54.00	-1.65	Average
3	2483.9580	5.12	27.37	32.50	52.42	52.41	54.00	-1.59	Average



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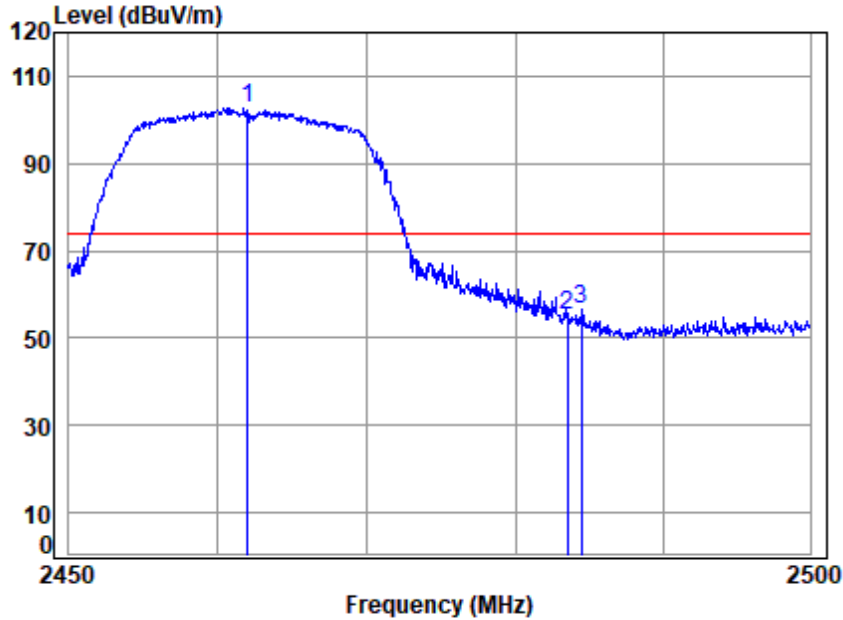
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 58 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		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	2462.0000	5.10	27.32	32.50	102.70	102.62	74.00	28.62	peak
2	2483.5000	5.12	27.36	32.50	55.26	55.24	74.00	-18.76	peak
3	2484.4420	5.12	27.37	32.50	56.78	56.77	74.00	-17.23	peak



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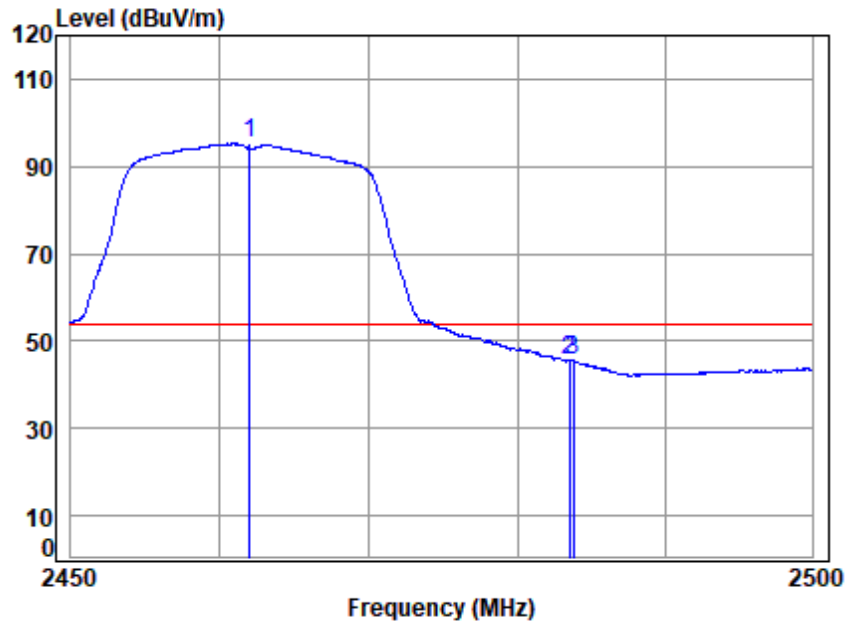
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 59 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		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	2462.0000	5.10	27.32	32.50	95.28	95.20	54.00	41.20 Average
2	2483.5000	5.12	27.36	32.50	45.46	45.44	54.00	-8.56 Average
3	2483.7900	5.12	27.37	32.50	45.48	45.47	54.00	-8.53 Average



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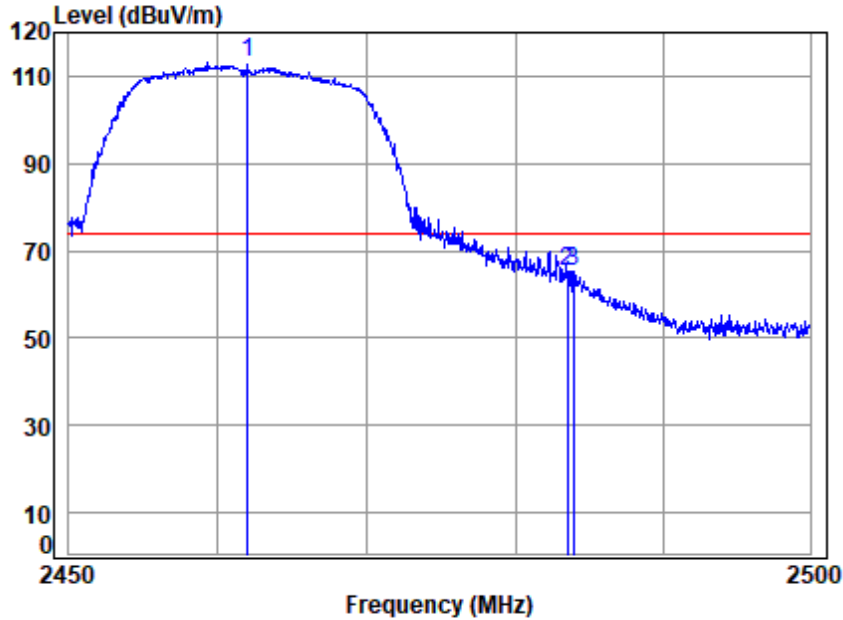
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 60 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		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	2462.0000	5.10	27.32	32.50	113.35	113.27	74.00	39.27 Peak
2	2483.5000	5.12	27.36	32.50	65.30	65.28	74.00	-8.72 Peak
3	2483.9400	5.12	27.37	32.50	65.28	65.27	74.00	-8.73 Peak



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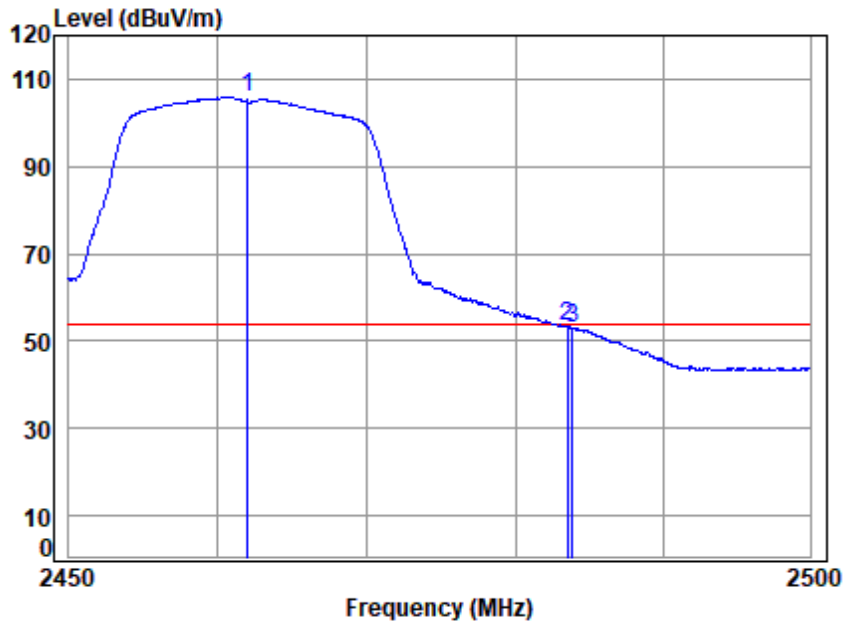
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 61 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G WIFI 11G

		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	2462.0000	5.10	27.32	32.50	105.97	105.89	54.00	51.89 Average
2	2483.5000	5.12	27.36	32.50	53.39	53.37	54.00	-0.63 Average
3	2483.8400	5.12	27.37	32.50	53.03	53.02	54.00	-0.98 Average



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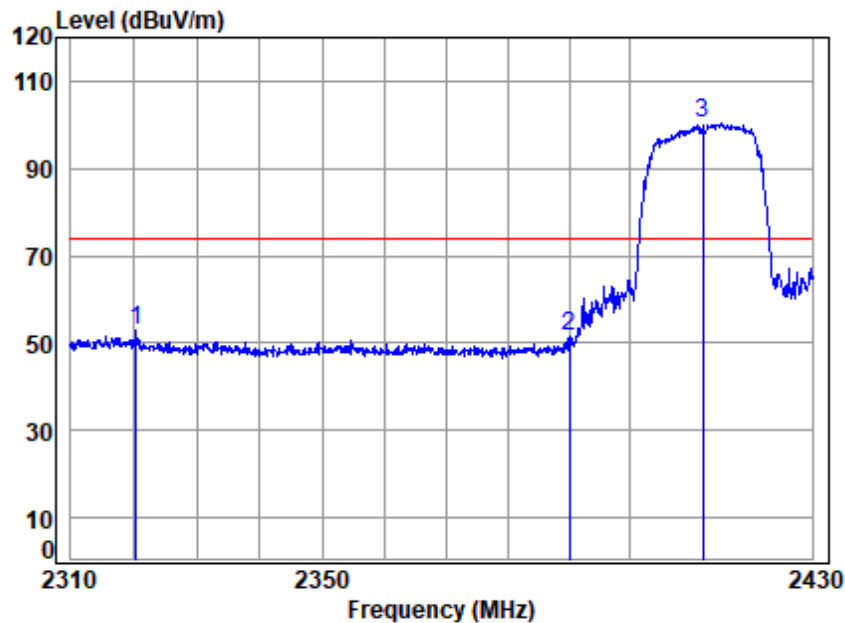
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 62 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G 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	2320.3180	5.00	27.00	32.50	53.34	52.84	74.00	-21.16 peak
2	2390.0000	5.05	27.16	32.50	51.82	51.53	74.00	-22.47 peak
3	2412.0000	5.07	27.21	32.50	100.39	100.17	74.00	26.17 peak



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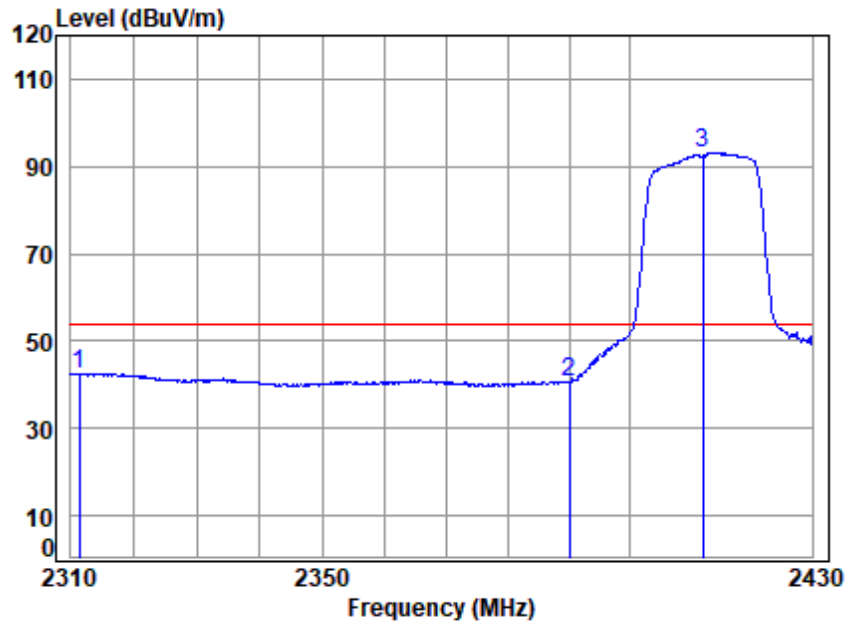
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 63 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G 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	2311.2870	5.00	26.98	32.50	43.03	42.51	54.00	-11.49 Average
2	2390.0000	5.05	27.16	32.50	41.09	40.80	54.00	-13.20 Average
3	2412.0000	5.07	27.21	32.50	93.37	93.15	54.00	39.15 Average



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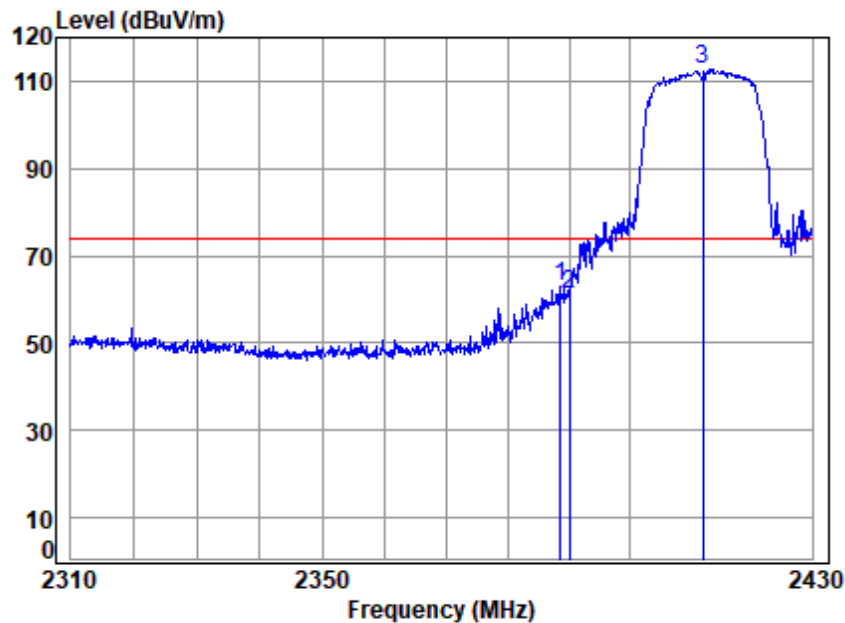
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 64 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G 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	2388.5160	5.05	27.15	32.50	63.31	63.01	74.00	-10.99 Peak
2	2390.0000	5.05	27.16	32.50	61.42	61.13	74.00	-12.87 Peak
3	2412.0000	5.07	27.21	32.50	112.88	112.66	74.00	38.66 Peak



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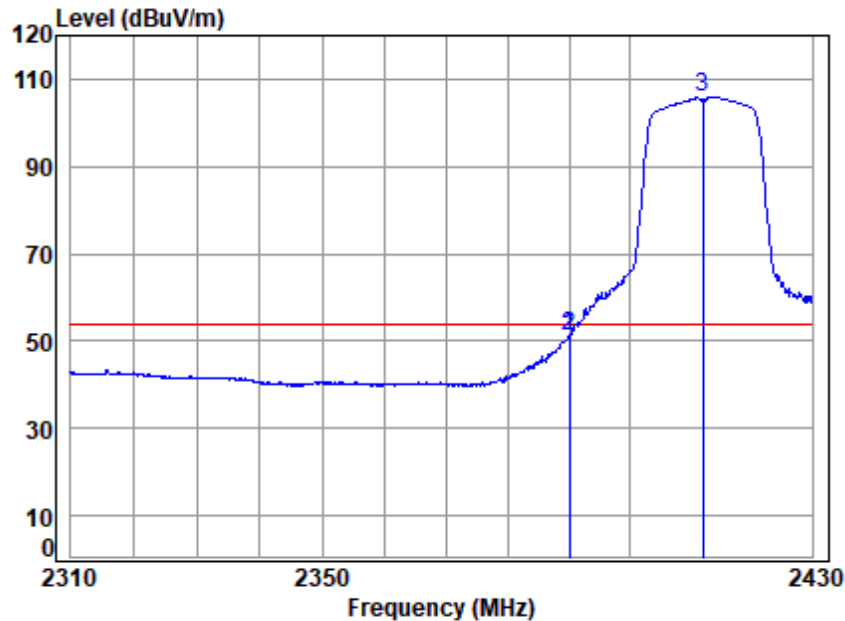
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 65 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G 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 2389.9680	5.05	27.16	32.50	51.30	51.01	54.00	-2.99	Average
2 2390.0000	5.05	27.16	32.50	51.30	51.01	54.00	-2.99	Average
3 2412.0000	5.07	27.21	32.50	106.22	106.00	54.00	52.00	Average



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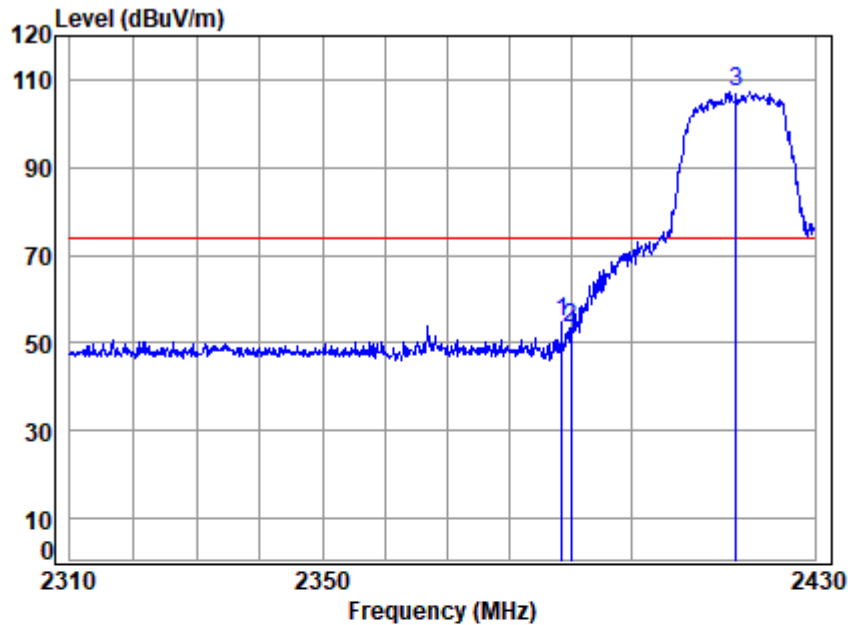
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 66 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2417 Band edge

Note : 2.4G 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	2388.5160	5.05	27.15	32.50	55.26	54.96	74.00	-19.04	Peak
2	2390.0000	5.05	27.16	32.50	53.60	53.31	74.00	-20.69	Peak
3	2417.0000	5.07	27.22	32.50	107.25	107.04	74.00	33.04	Peak



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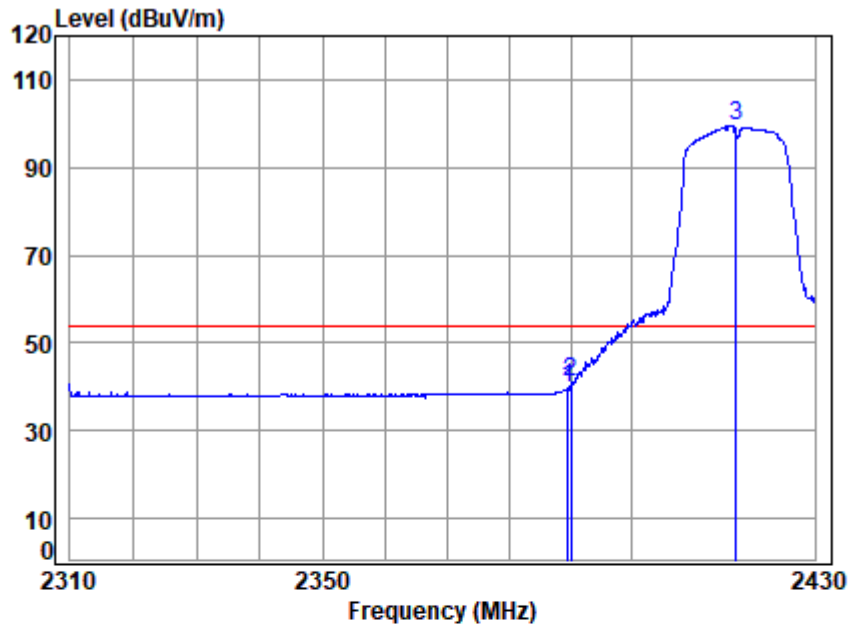
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 67 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2417 Band edge
Note : 2.4G 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	2389.6050	5.05	27.16	32.50	40.15	39.86	54.00	-14.14	Average
2	2390.0000	5.05	27.16	32.50	41.33	41.04	54.00	-12.96	Average
3	2417.0000	5.07	27.22	32.50	99.68	99.47	54.00	45.47	Average



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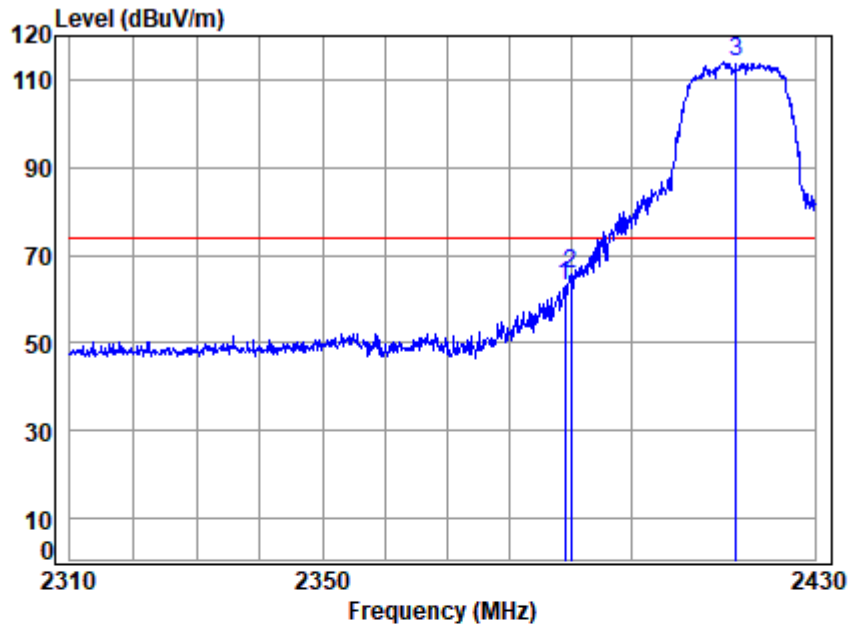
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 68 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2417 Band edge
Note : 2.4G 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	2389.1210	5.05	27.16	32.50	63.48	63.19	74.00	-10.81	Peak
2	2390.0000	5.05	27.16	32.50	65.85	65.56	74.00	-8.44	Peak
3	2417.0000	5.07	27.22	32.50	114.33	114.12	74.00	40.12	Peak



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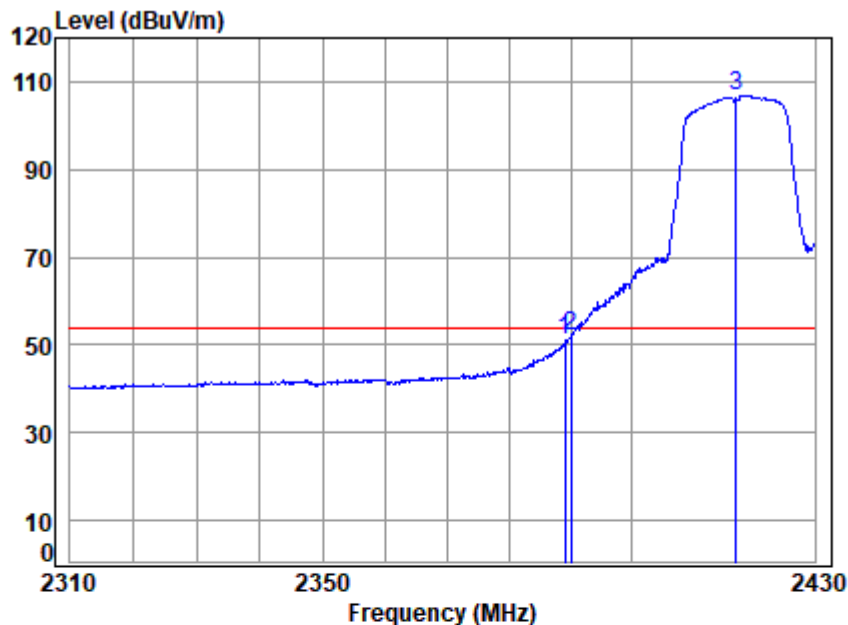
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 69 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2417 Band edge
Note : 2.4G 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	2389.1210	5.05	27.16	32.50	51.26	50.97	54.00	-3.03	Average
2	2390.0000	5.05	27.16	32.50	52.36	52.07	54.00	-1.93	Average
3	2417.0000	5.07	27.22	32.50	107.08	106.87	54.00	52.87	Average



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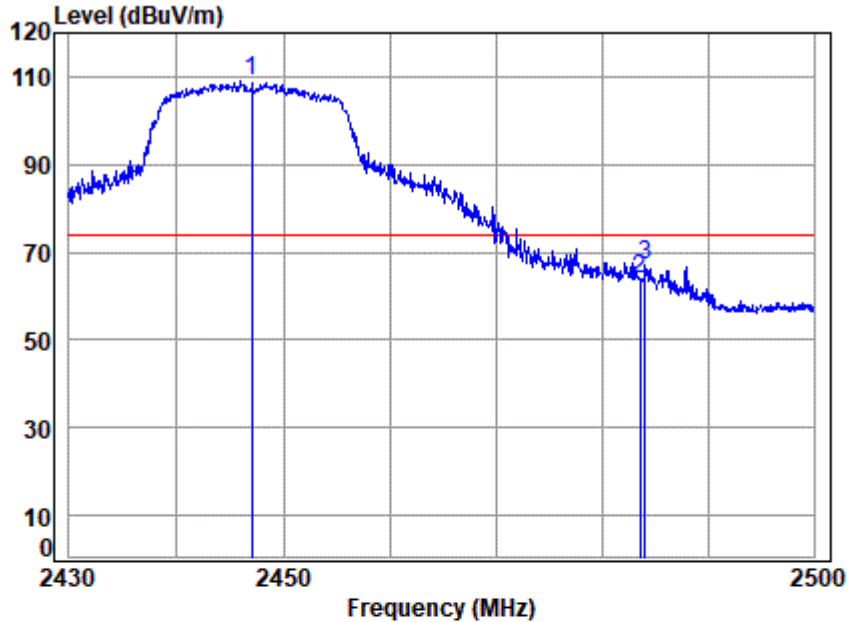
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 70 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2447 Band edge

Note : 2.4G 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	2447.0000	5.09	27.28	32.50	108.95	108.82	74.00	34.82	peak
2	2483.5000	5.12	27.36	32.50	63.70	63.68	74.00	-10.32	peak
3	2484.0060	5.12	27.37	32.50	67.24	67.23	74.00	-6.77	peak



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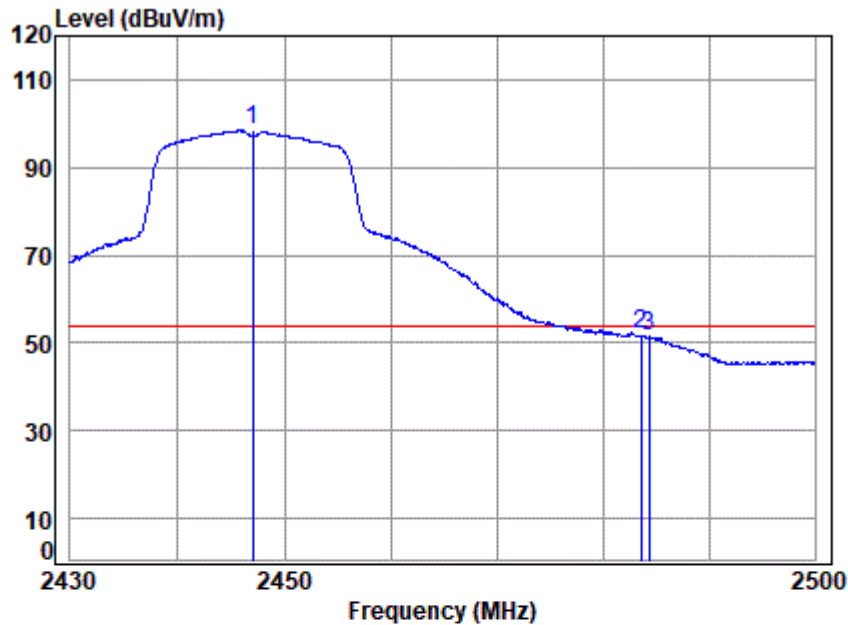
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 71 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2447 Band edge

Note : 2.4G 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	2447.0000	5.09	27.28	32.50	98.83	98.70	54.00	44.70	Average
2	2483.5000	5.12	27.36	32.50	51.92	51.90	54.00	-2.10	Average
3	2484.2170	5.12	27.37	32.50	51.63	51.62	54.00	-2.38	Average



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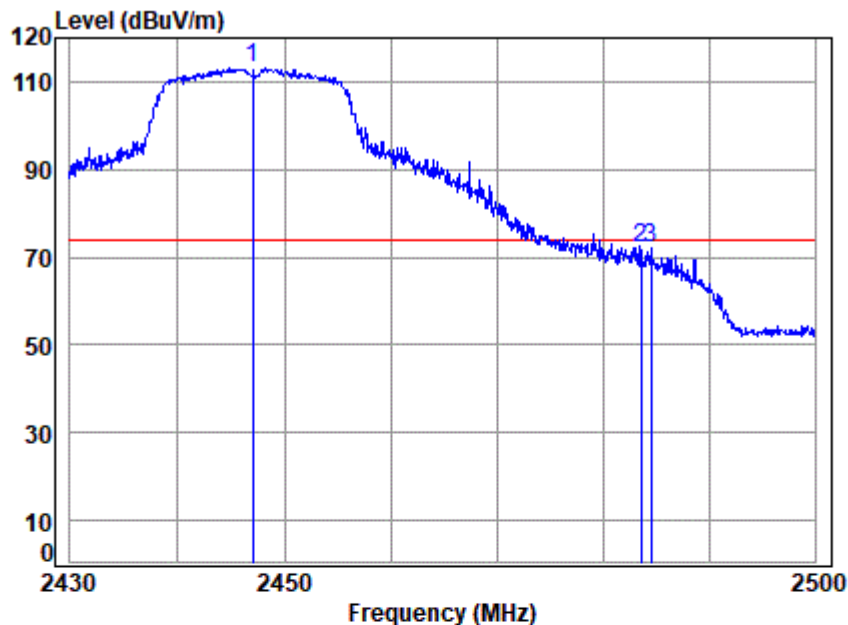
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 72 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2447 Band edge
Note : 2.4G 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	2447.0000	5.09	27.28	32.50	113.17	113.04	74.00	39.04	Peak
2	2483.5000	5.12	27.36	32.50	72.01	71.99	74.00	-2.01	Peak
3	2484.4290	5.12	27.37	32.50	72.08	72.07	74.00	-1.93	Peak



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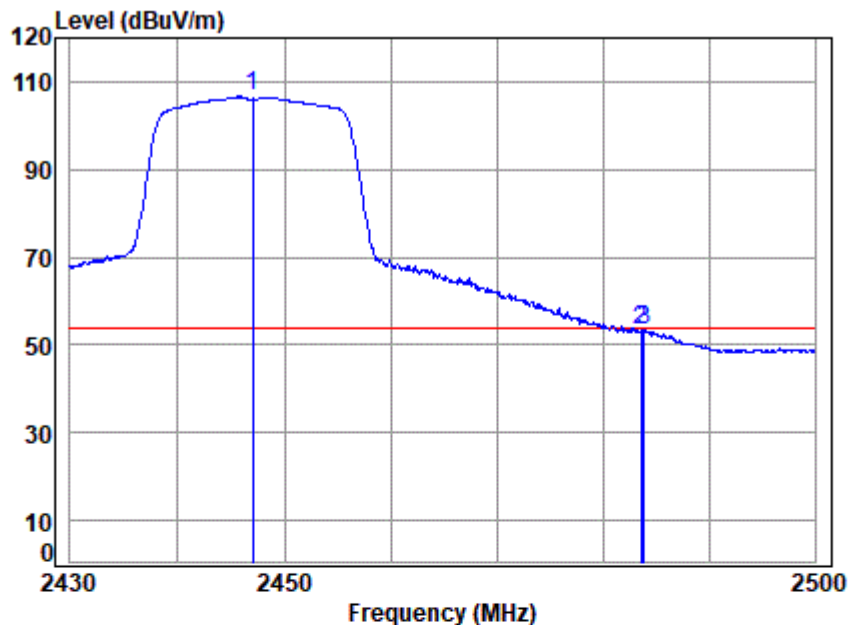
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 73 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2447 Band edge

Note : 2.4G 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	2447.0000	5.09	27.28	32.50	106.70	106.57	54.00	52.57	Average
2	2483.5120	5.12	27.36	32.50	53.39	53.37	54.00	-0.63	Average
3	2483.7940	5.12	27.37	32.50	53.50	53.49	54.00	-0.51	Average



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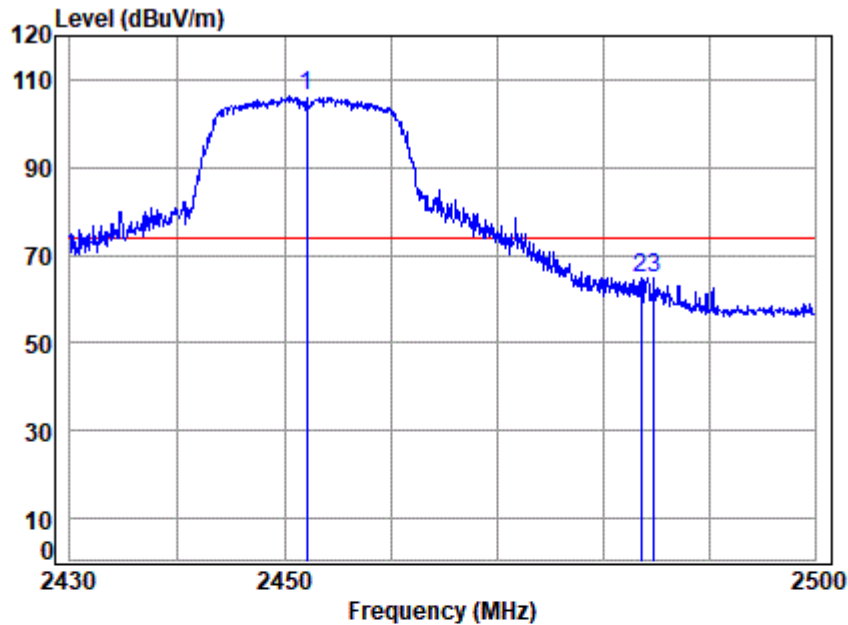
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 74 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2452 Band edge

Note : 2.4G 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	2452.0000	5.10	27.30	32.50	106.21	106.11	74.00	32.11	peak
2	2483.5000	5.12	27.36	32.50	64.95	64.93	74.00	-9.07	peak
3	2484.7110	5.12	27.37	32.50	64.71	64.70	74.00	-9.30	peak



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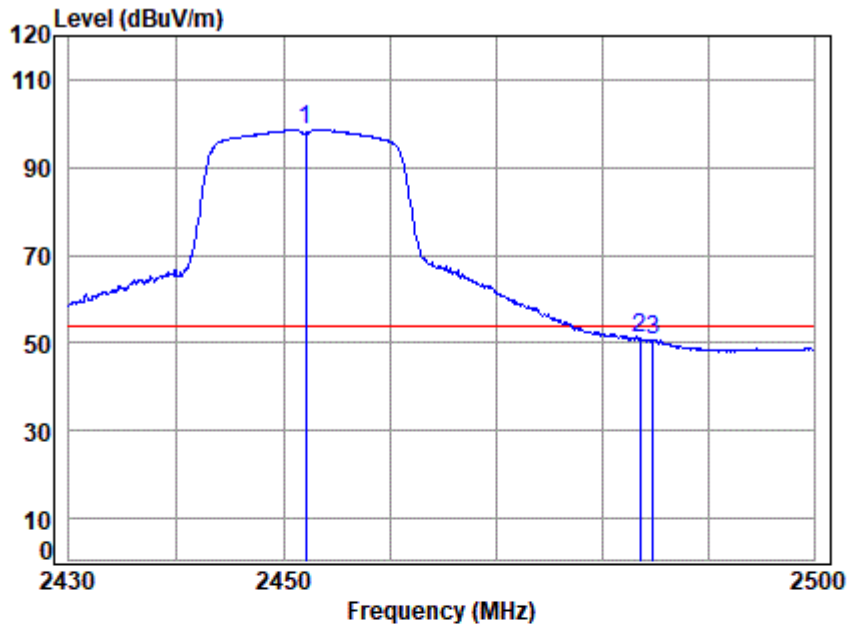
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 75 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2452 Band edge

Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.0000	5.10	27.30	32.50	98.79	98.69	54.00	44.69	Average
2	2483.5000	5.12	27.36	32.50	50.98	50.96	54.00	-3.04	Average
3	2484.7110	5.12	27.37	32.50	50.83	50.82	54.00	-3.18	Average



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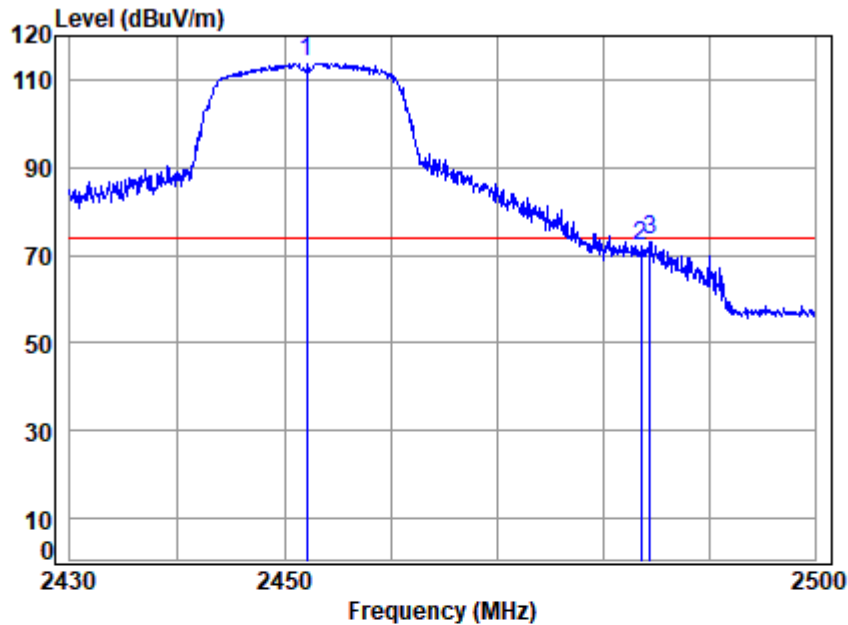
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 76 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.0000	5.10	27.30	32.50	114.19	114.09	74.00	40.09	Peak
2	2483.5000	5.12	27.36	32.50	71.94	71.92	74.00	-2.08	Peak
3	2484.3580	5.12	27.37	32.50	73.43	73.42	74.00	-0.58	Peak



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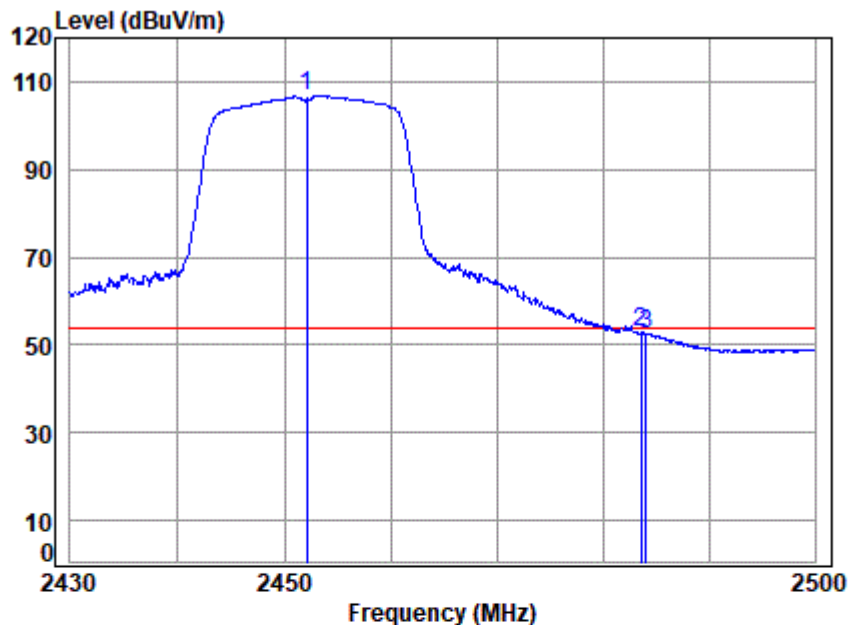
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 77 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G 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	2452.0000	5.10	27.30	32.50	106.92	106.82	54.00	52.82	Average
2	2483.5120	5.12	27.36	32.50	52.74	52.72	54.00	-1.28	Average
3	2484.0060	5.12	27.37	32.50	52.61	52.60	54.00	-1.40	Average



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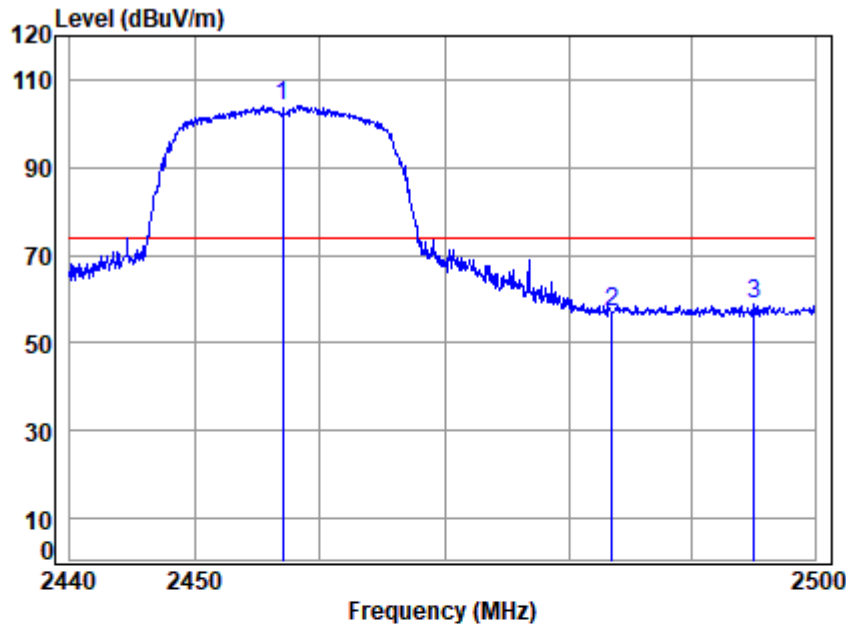
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 78 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2457 Band edge

Note : 2.4G 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	2457.0000	5.10	27.31	32.50	104.25	104.16	74.00	30.16	peak
2	2483.5000	5.12	27.36	32.50	57.18	57.16	74.00	-16.84	peak
3	2495.0850	5.13	27.39	32.50	58.98	59.00	74.00	-15.00	peak



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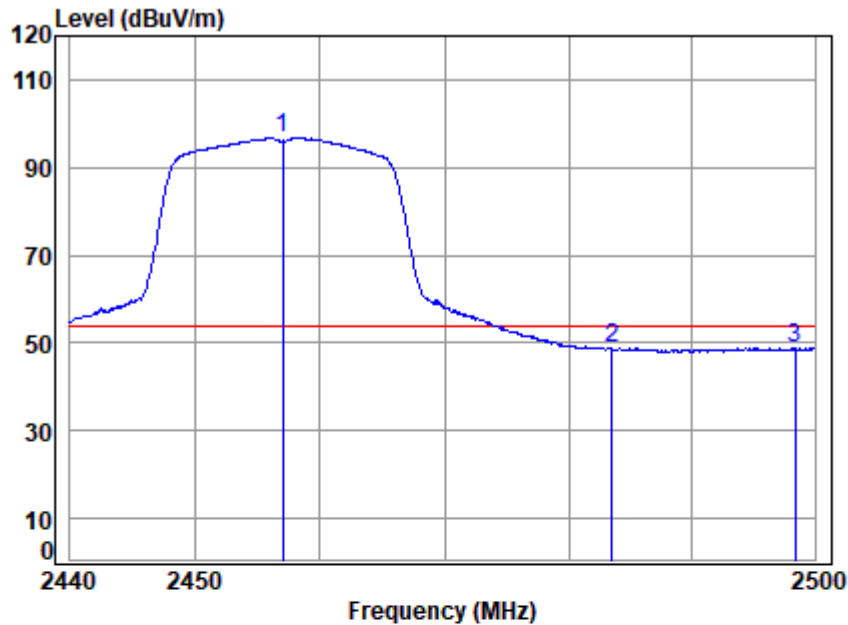
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 79 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2457 Band edge

Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	2457.0000	5.10	27.31	32.50	96.95	96.86	54.00	Average
2	2483.5000	5.12	27.36	32.50	48.71	48.69	54.00	Average
3	2498.4210	5.13	27.40	32.50	48.76	48.79	54.00	Average



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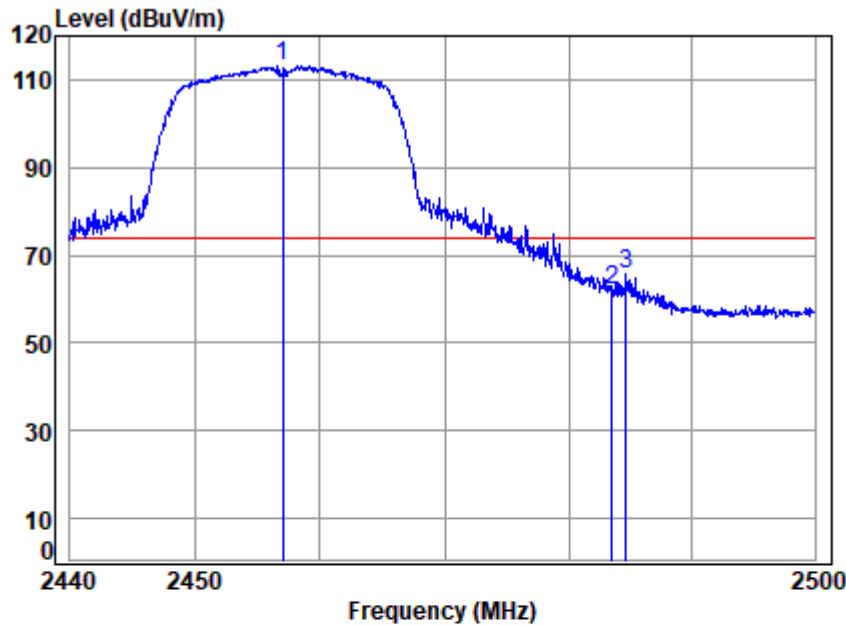
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 80 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2457 Band edge
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2457.0000	5.10	27.31	32.50	113.39	113.30	74.00	39.30	Peak
2	2483.5000	5.12	27.36	32.50	62.25	62.23	74.00	-11.77	Peak
3	2484.6820	5.12	27.37	32.50	65.68	65.67	74.00	-8.33	Peak



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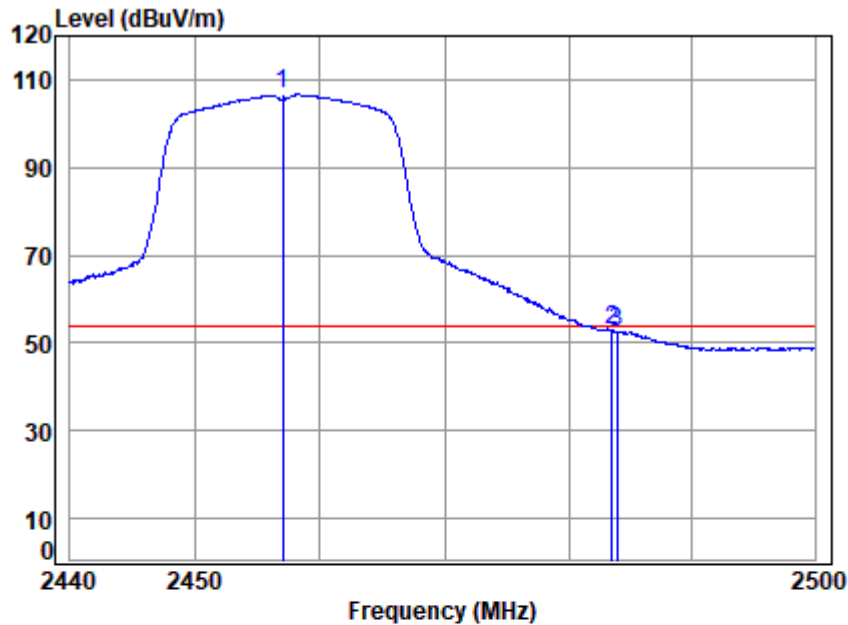
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 81 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz;



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2457 Band edge
Note : 2.4G 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	2457.0000	5.10	27.31	32.50	106.72	106.63	54.00	52.63	Average
2	2483.5000	5.12	27.36	32.50	52.73	52.71	54.00	-1.29	Average
3	2483.8970	5.12	27.37	32.50	52.60	52.59	54.00	-1.41	Average



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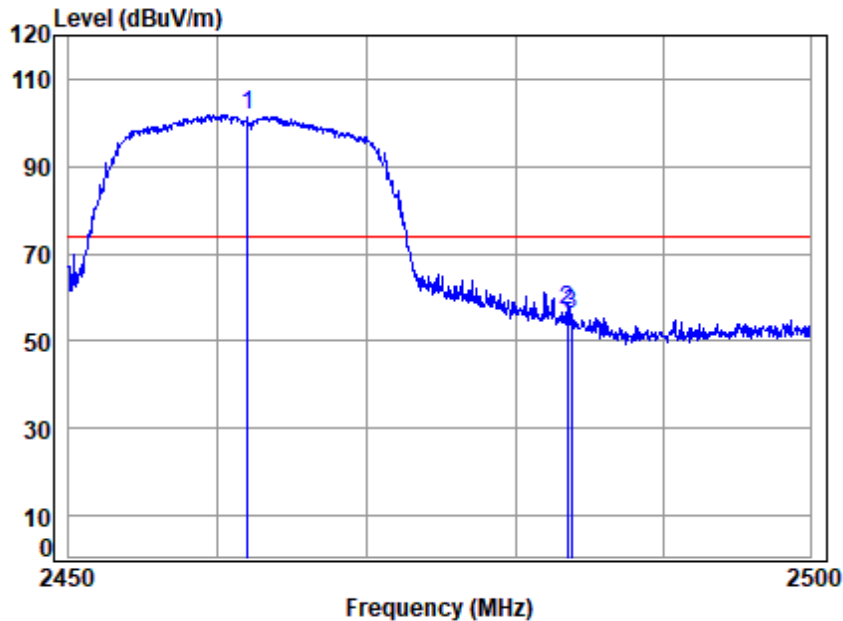
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 82 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2462 Band edge

Note : 2.4G 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	2462.0000	5.10	27.32	32.50	102.05	101.97	74.00	27.97 peak
2	2483.5000	5.12	27.36	32.50	57.05	57.03	74.00	-16.97 peak
3	2483.7900	5.12	27.37	32.50	56.11	56.10	74.00	-17.90 peak



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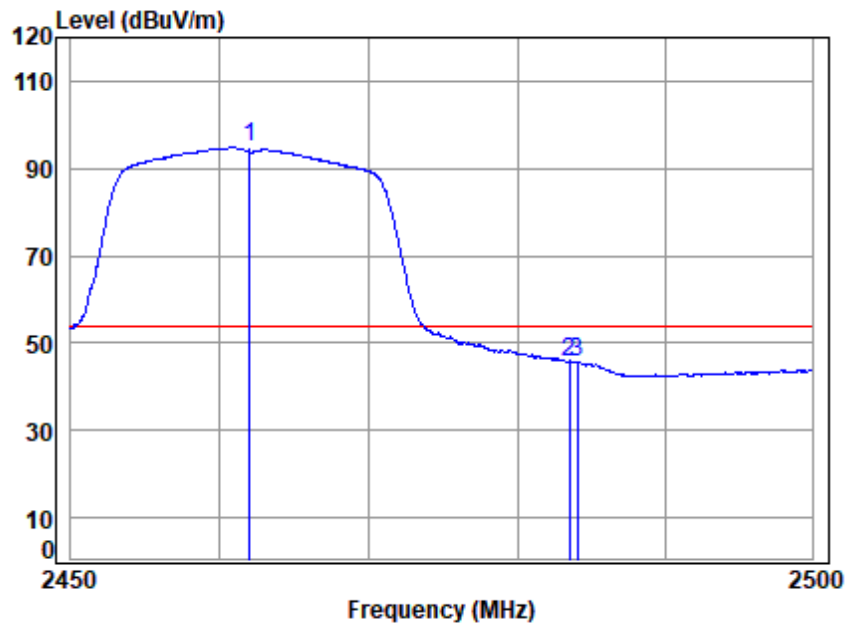
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 83 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G 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	2462.0000	5.10	27.32	32.50	94.92	94.84	54.00	40.84 Average
2	2483.5000	5.12	27.36	32.50	45.66	45.64	54.00	-8.36 Average
3	2484.0410	5.12	27.37	32.50	45.86	45.85	54.00	-8.15 Average



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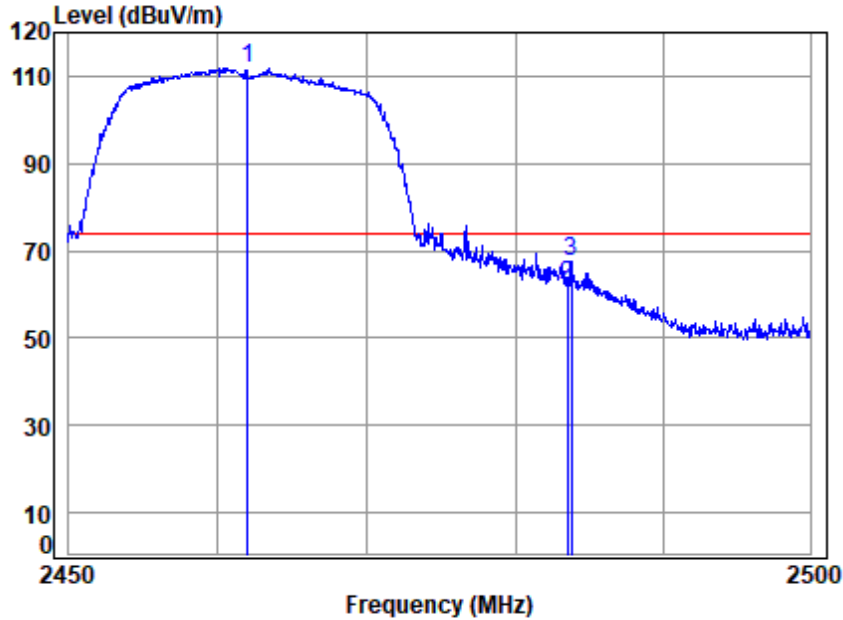
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 84 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G 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	2462.0000	5.10	27.32	32.50	111.96	111.88	74.00	37.88 Peak
2	2483.5000	5.12	27.36	32.50	61.85	61.83	74.00	-12.17 Peak
3	2483.7900	5.12	27.37	32.50	67.43	67.42	74.00	-6.58 Peak



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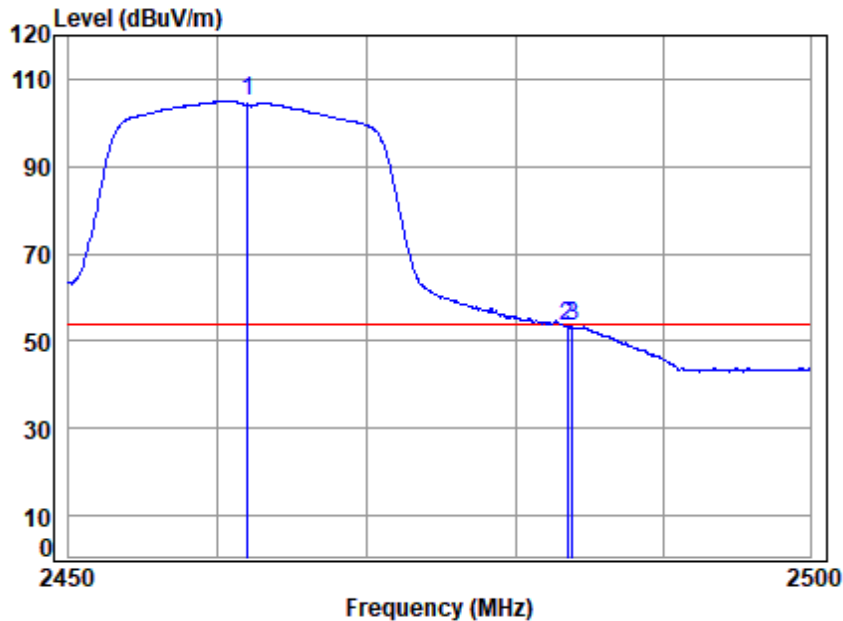
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 85 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2462 Band edge
Note : 2.4G 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	2462.0000	5.10	27.32	32.50	105.12	105.04	54.00	51.04 Average
2	2483.5000	5.12	27.36	32.50	53.25	53.23	54.00	-0.77 Average
3	2483.8400	5.12	27.37	32.50	53.25	53.24	54.00	-0.76 Average



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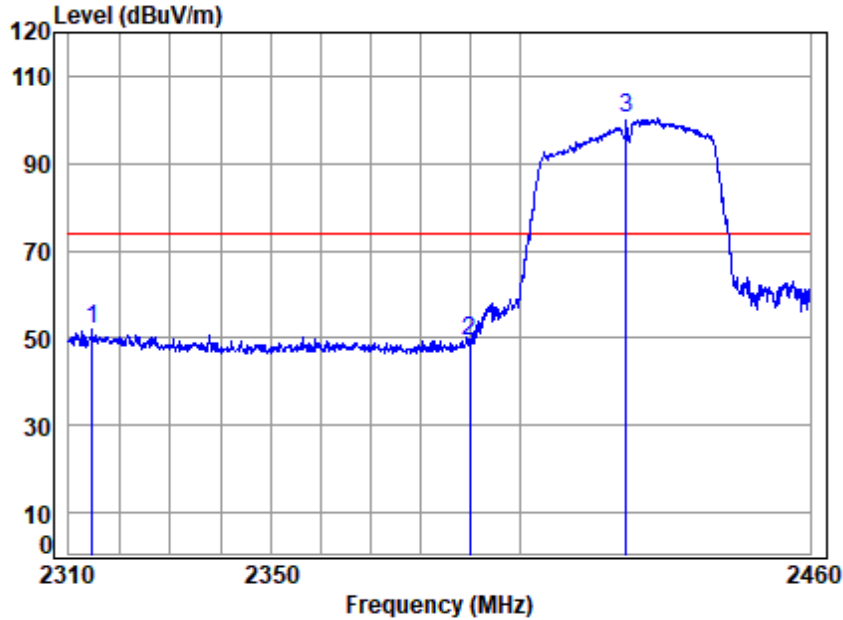
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 86 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		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	2314.6550	5.00	26.99	32.50	52.33	51.82	74.00	-22.18 peak
2	2390.0000	5.05	27.16	32.50	49.54	49.25	74.00	-24.75 peak
3	2422.0000	5.08	27.23	32.50	100.45	100.26	74.00	26.26 peak



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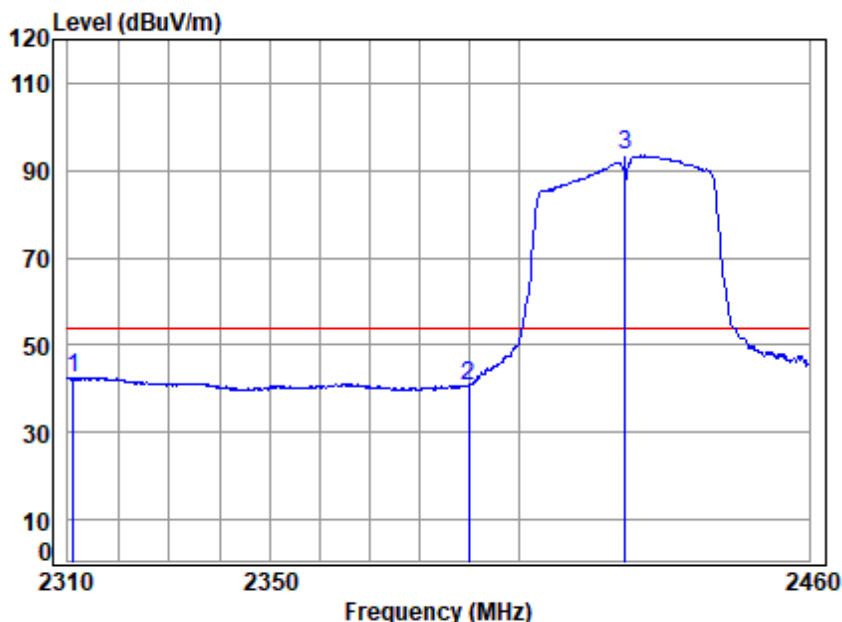
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 87 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		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	2311.1630	5.00	26.98	32.50	43.00	42.48	54.00	-11.52 Average
2	2390.0000	5.05	27.16	32.50	41.07	40.78	54.00	-13.22 Average
3	2422.0000	5.08	27.23	32.50	93.57	93.38	54.00	39.38 Average



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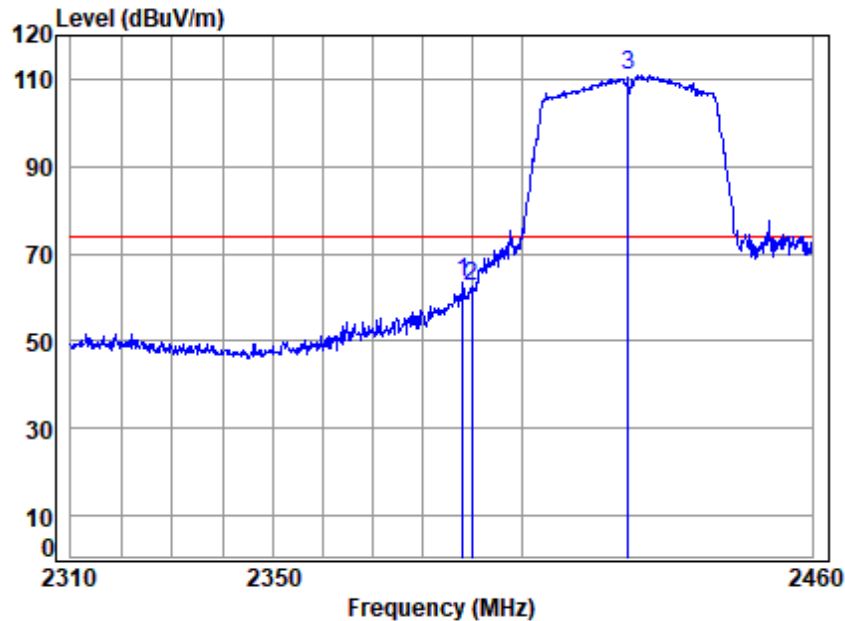
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 88 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

	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 2388.1740	5.05	27.15	32.50	63.58	63.28	74.00	-10.72 Peak
2 2390.0000	5.05	27.16	32.50	62.65	62.36	74.00	-11.64 Peak
3 2422.0000	5.08	27.23	32.50	111.18	110.99	74.00	36.99 Peak



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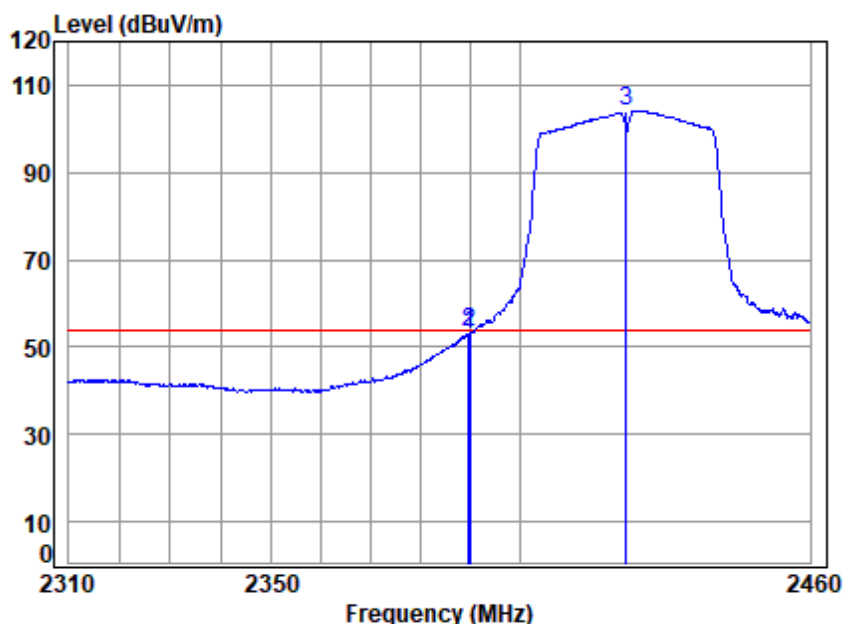
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 89 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2422 Band edge
Note : 2.4G WIFI 11N40

		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	2389.8270	5.05	27.16	32.50	53.18	52.89	54.00	-1.11 Average
2	2390.0000	5.05	27.16	32.50	53.69	53.40	54.00	-0.60 Average
3	2422.0000	5.08	27.23	32.50	104.36	104.17	54.00	50.17 Average



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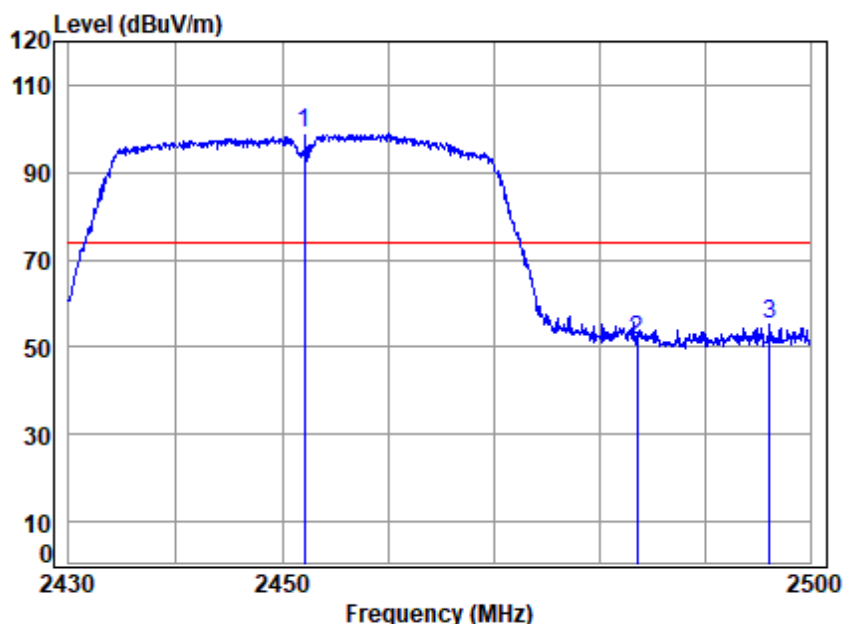
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 90 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		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	2452.0000	5.10	27.30	32.50	99.06	98.96	74.00	24.96 peak
2	2483.5000	5.12	27.36	32.50	51.70	51.68	74.00	-22.32 peak
3	2496.1690	5.13	27.39	32.50	55.19	55.21	74.00	-18.79 peak



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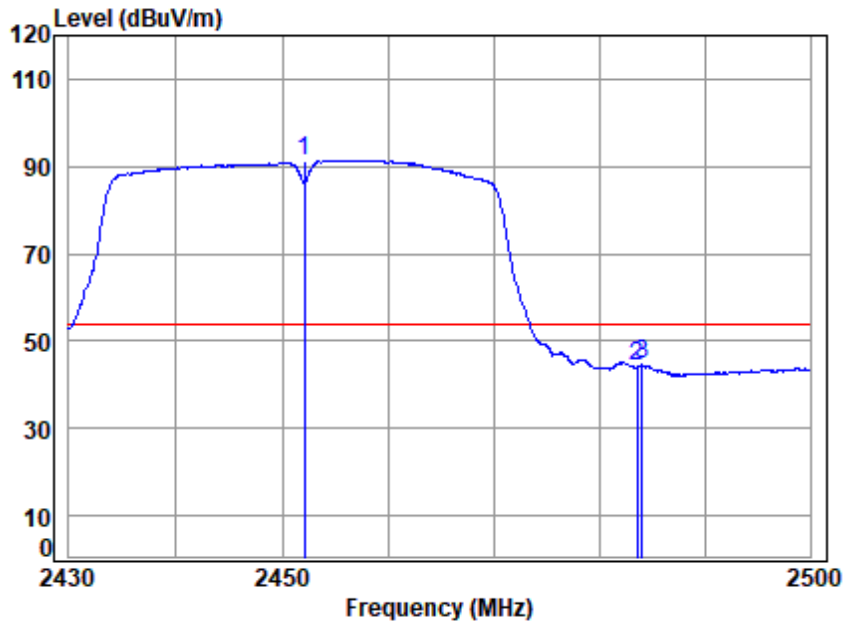
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 91 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		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	2452.0000	5.10	27.30	32.50	91.51	91.41	54.00	37.41 Average
2	2483.5000	5.12	27.36	32.50	44.14	44.12	54.00	-9.88 Average
3	2484.0060	5.12	27.37	32.50	44.60	44.59	54.00	-9.41 Average



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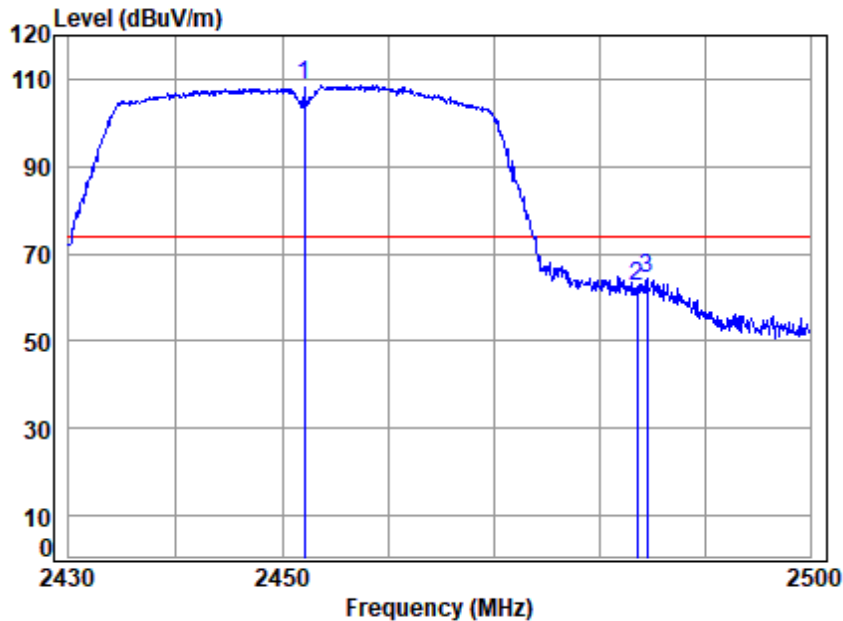
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 92 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		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	2452.0000	5.10	27.30	32.50	108.83	108.73	74.00	34.73 Peak
2	2483.5000	5.12	27.36	32.50	62.35	62.33	74.00	-11.67 Peak
3	2484.4290	5.12	27.37	32.50	64.31	64.30	74.00	-9.70 Peak



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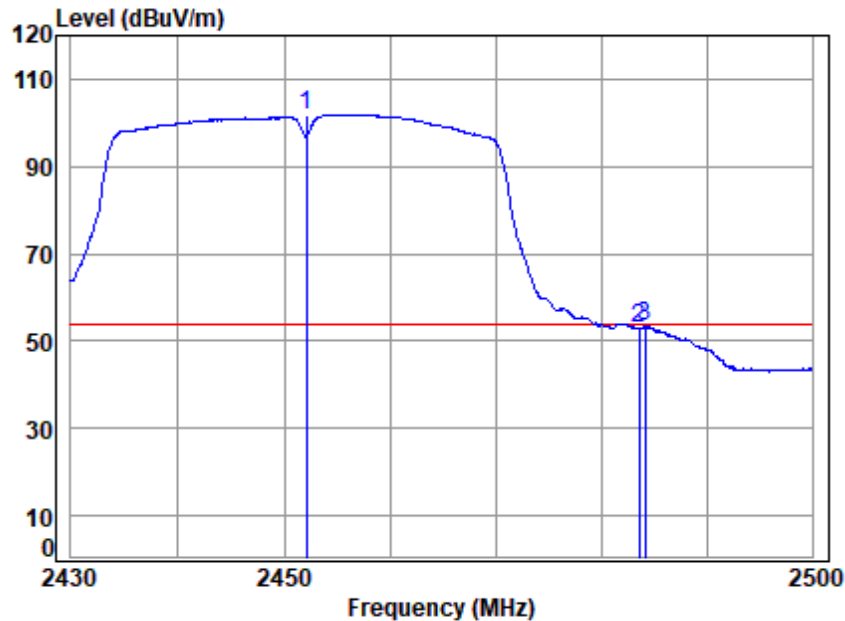
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 93 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2452 Band edge
Note : 2.4G WIFI 11N40

		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	2452.0000	5.10	27.30	32.50	101.89	101.79	54.00	47.79 Average
2	2483.5000	5.12	27.36	32.50	52.78	52.76	54.00	-1.24 Average
3	2484.0760	5.12	27.37	32.50	53.35	53.34	54.00	-0.66 Average



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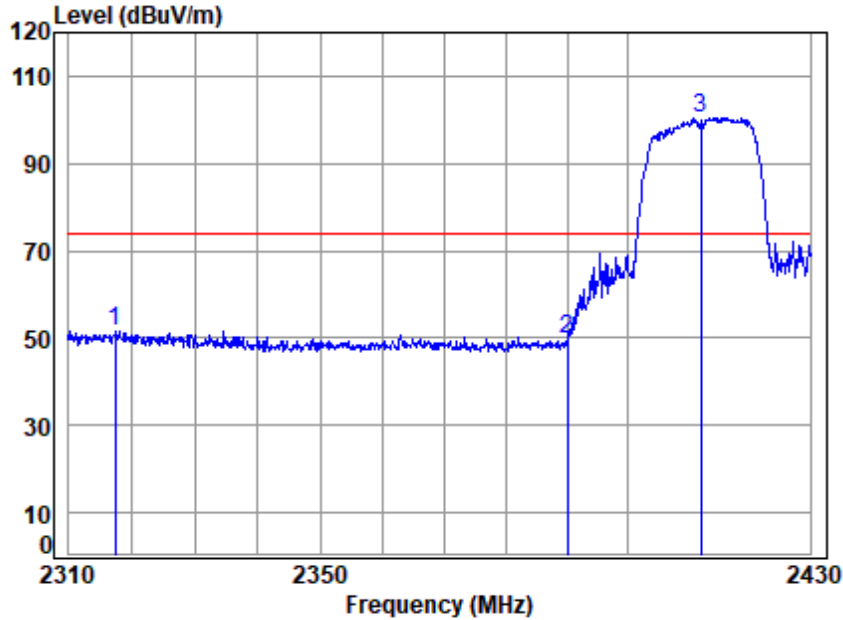
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 94 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2412 Band edge

Note : 2.4G WIFI 11AX20

		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	2317.3820	5.00	26.99	32.50	52.22	51.71	74.00	-22.29 peak
2	2390.0000	5.05	27.16	32.50	50.22	49.93	74.00	-24.07 peak
3	2412.0000	5.07	27.21	32.50	100.79	100.57	74.00	26.57 peak



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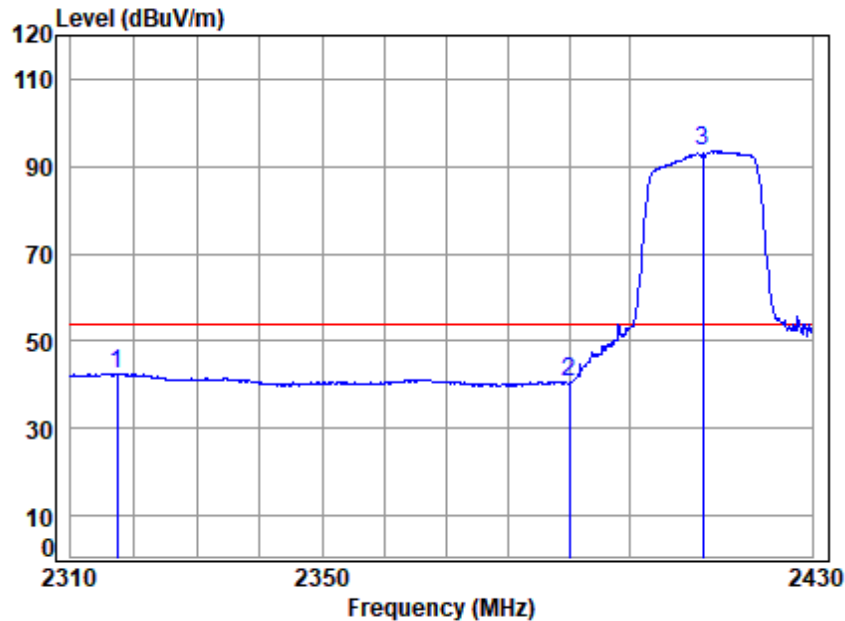
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 95 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2412 Band edge

Note : 2.4G WIFI 11AX20

		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	2317.2650	5.00	26.99	32.50	43.03	42.52	54.00	-11.48 Average
2	2390.0000	5.05	27.16	32.50	40.91	40.62	54.00	-13.38 Average
3	2412.0000	5.07	27.21	32.50	93.63	93.41	54.00	39.41 Average



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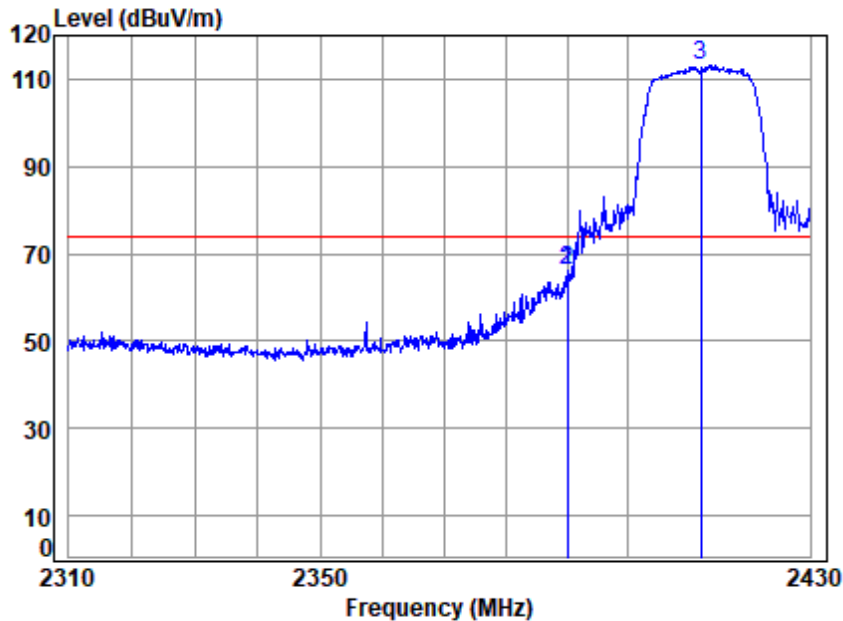
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 96 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2412 Band edge

Note : 2.4G WIFI 11AX20

		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	2389.9680	5.05	27.16	32.50	66.42	66.13	74.00	-7.87 Peak
2	2390.0000	5.05	27.16	32.50	66.42	66.13	74.00	-7.87 Peak
3	2412.0000	5.07	27.21	32.50	113.35	113.13	74.00	39.13 Peak



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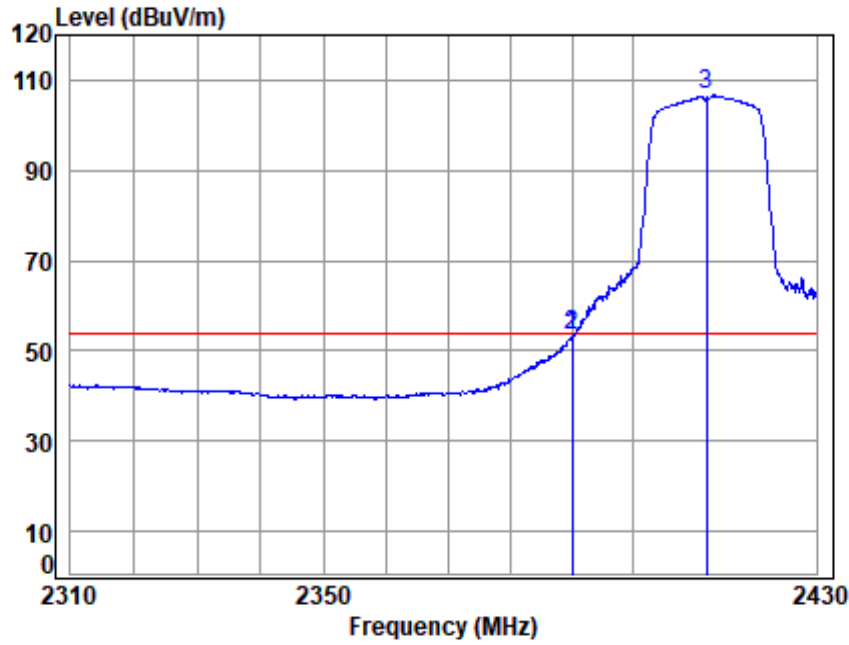
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 97 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.9680	5.05	27.16	32.50	53.77	53.48	54.00	-0.52 Average
2	2390.0000	5.05	27.16	32.50	53.75	53.46	54.00	-0.54 Average
3	2412.0000	5.07	27.21	32.50	106.84	106.62	54.00	52.62 Average



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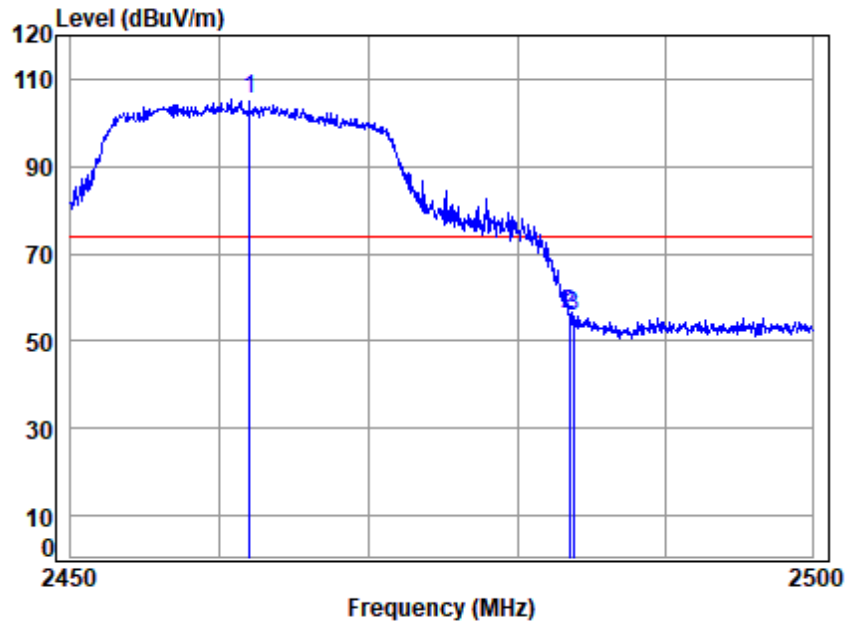
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 98 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2462 Band edge

Note : 2.4G WIFI 11AX20

		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	2462.0000	5.10	27.32	32.50	105.61	105.53	74.00	31.53 peak
2	2483.5000	5.12	27.36	32.50	56.23	56.21	74.00	-17.79 peak
3	2483.7900	5.12	27.37	32.50	55.79	55.78	74.00	-18.22 peak



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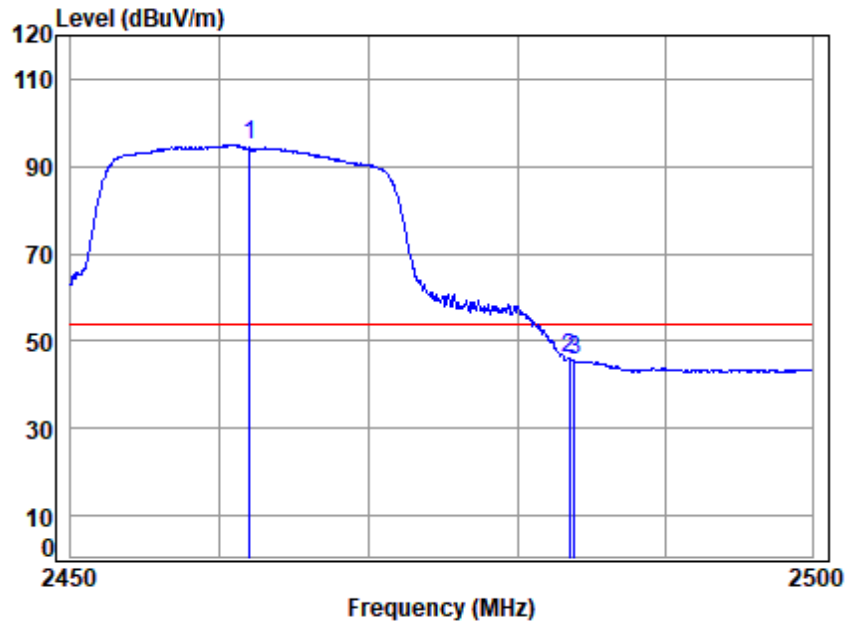
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 99 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2462 Band edge

Note : 2.4G WIFI 11AX20

		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	2462.0000	5.10	27.32	32.50	95.12	95.04	54.00	41.04 Average
2	2483.5000	5.12	27.36	32.50	46.10	46.08	54.00	-7.92 Average
3	2483.8400	5.12	27.37	32.50	45.49	45.48	54.00	-8.52 Average



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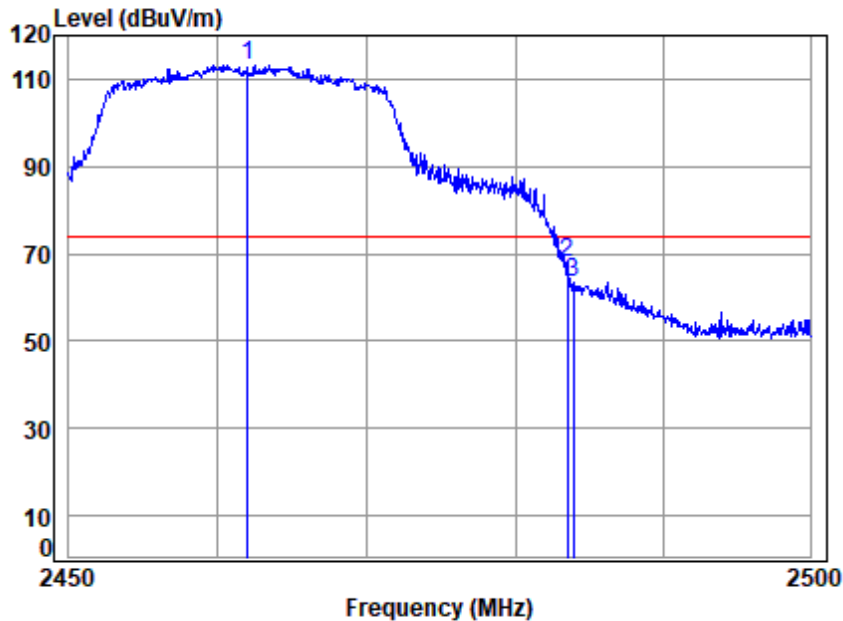
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 100 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2462 Band edge

Note : 2.4G WIFI 11AX20

		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	2462.0000	5.10	27.32	32.50	113.36	113.28	74.00	39.28 Peak
2	2483.5000	5.12	27.36	32.50	67.80	67.78	74.00	-6.22 Peak
3	2483.9400	5.12	27.37	32.50	63.46	63.45	74.00	-10.55 Peak



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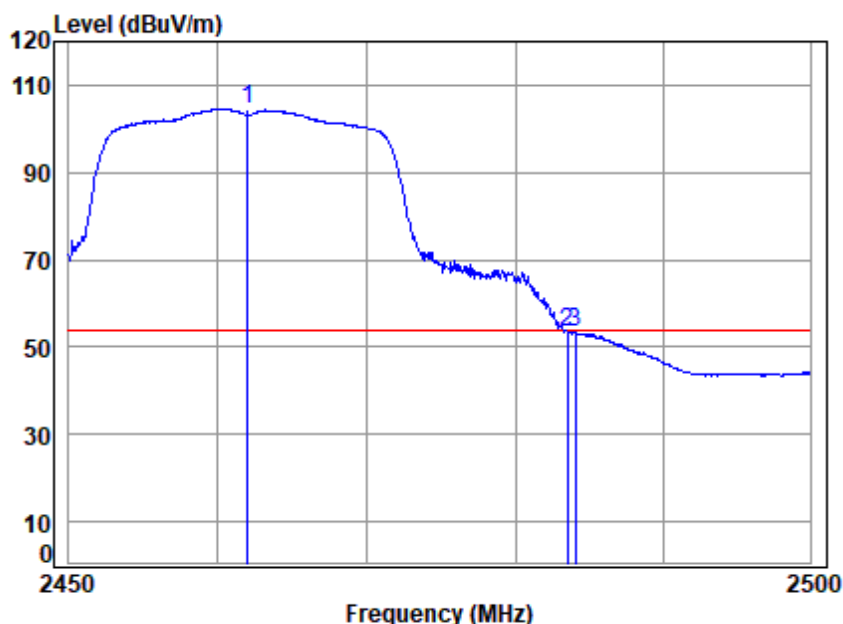
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 101 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2462 Band edge

Note : 2.4G WIFI 11AX20

		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	2462.0000	5.10	27.32	32.50	104.75	104.67	54.00	50.67 Average
2	2483.5000	5.12	27.36	32.50	53.49	53.47	54.00	-0.53 Average
3	2484.0410	5.12	27.37	32.50	53.46	53.45	54.00	-0.55 Average



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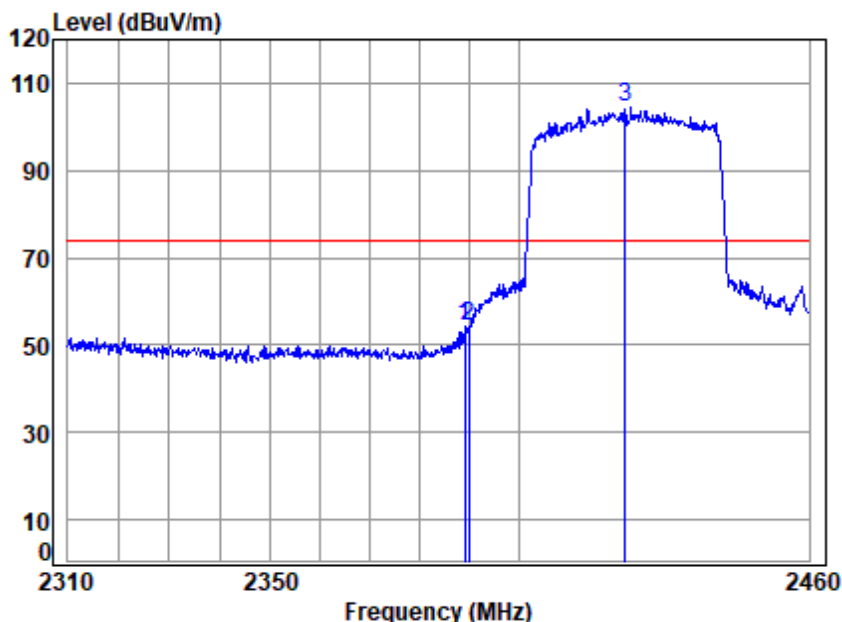
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 102 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2422 Band edge

Note : 2.4G WIFI 11AX40

		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	2389.0750	5.05	27.16	32.50	54.59	54.30	74.00	-19.70 peak
2	2390.0000	5.05	27.16	32.50	54.63	54.34	74.00	-19.66 peak
3	2422.0000	5.08	27.23	32.50	104.61	104.42	74.00	30.42 peak



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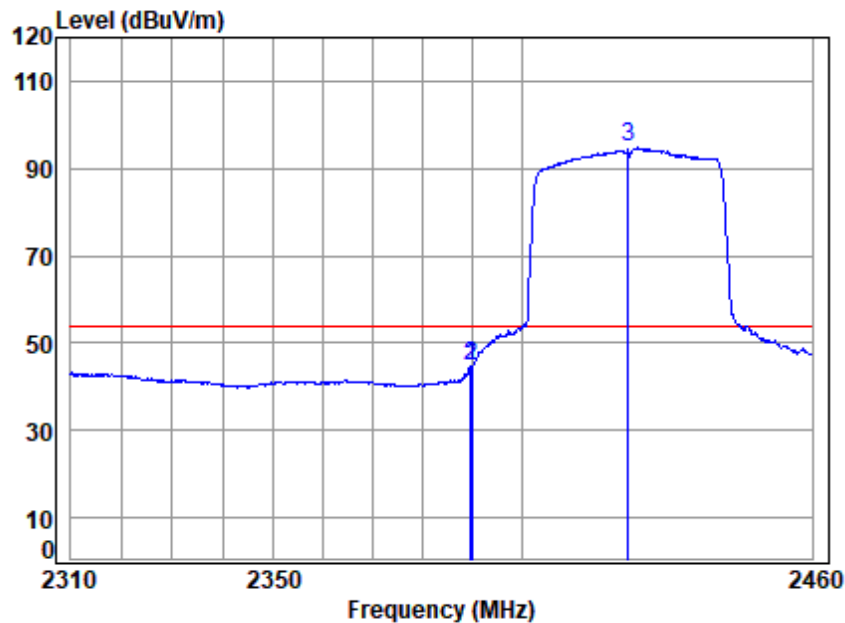
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 103 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2422 Band edge

Note : 2.4G WIFI 11AX40

		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	2389.8270	5.05	27.16	32.50	44.87	44.58	54.00	-9.42 Average
2	2390.0000	5.05	27.16	32.50	45.17	44.88	54.00	-9.12 Average
3	2422.0000	5.08	27.23	32.50	94.88	94.69	54.00	40.69 Average



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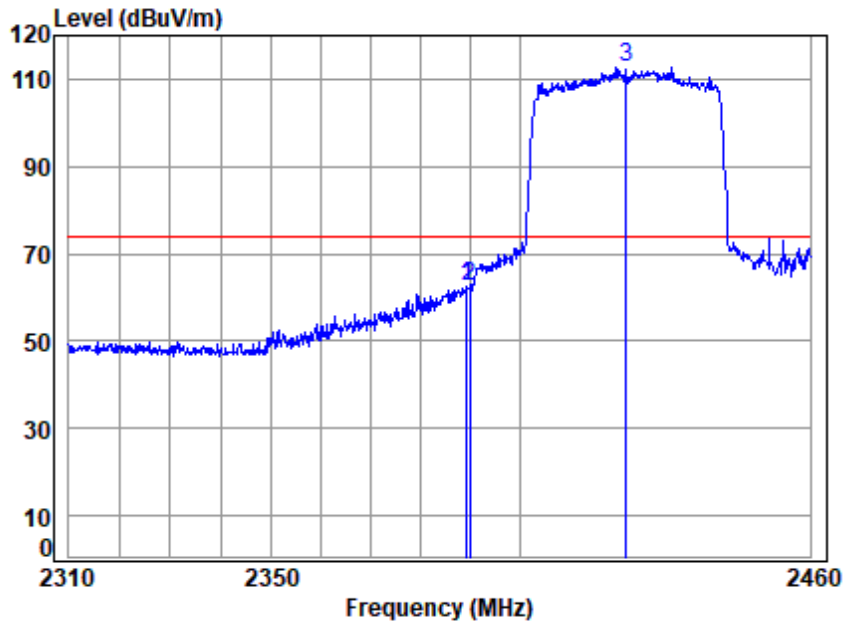
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 104 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2422 Band edge

Note : 2.4G WIFI 11AX40

		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	2389.3760	5.05	27.16	32.50	63.01	62.72	74.00	-11.28 Peak
2	2390.0000	5.05	27.16	32.50	62.96	62.67	74.00	-11.33 Peak
3	2422.0000	5.08	27.23	32.50	112.85	112.66	74.00	38.66 Peak



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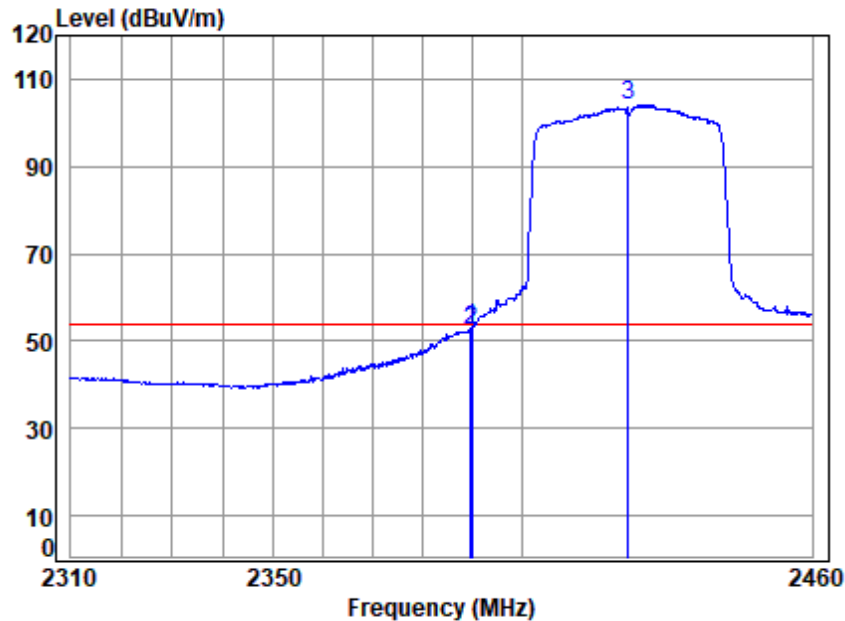
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 105 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2422 Band edge

Note : 2.4G WIFI 11AX40

		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	2389.8270	5.05	27.16	32.50	53.32	53.03	54.00	-0.97 Average
2	2390.0000	5.05	27.16	32.50	52.89	52.60	54.00	-1.40 Average
3	2422.0000	5.08	27.23	32.50	104.34	104.15	54.00	50.15 Average



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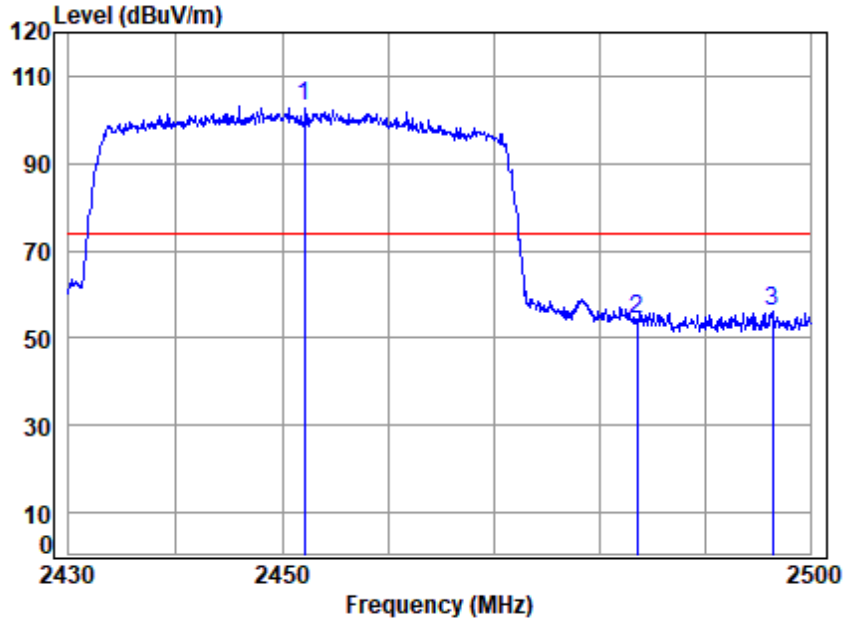
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 106 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2452 Band edge

Note : 2.4G WIFI 11AX40

		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	2452.0000	5.10	27.30	32.50	103.28	103.18	74.00	29.18 peak
2	2483.5000	5.12	27.36	32.50	54.20	54.18	74.00	-19.82 peak
3	2496.3820	5.13	27.39	32.50	55.94	55.96	74.00	-18.04 peak



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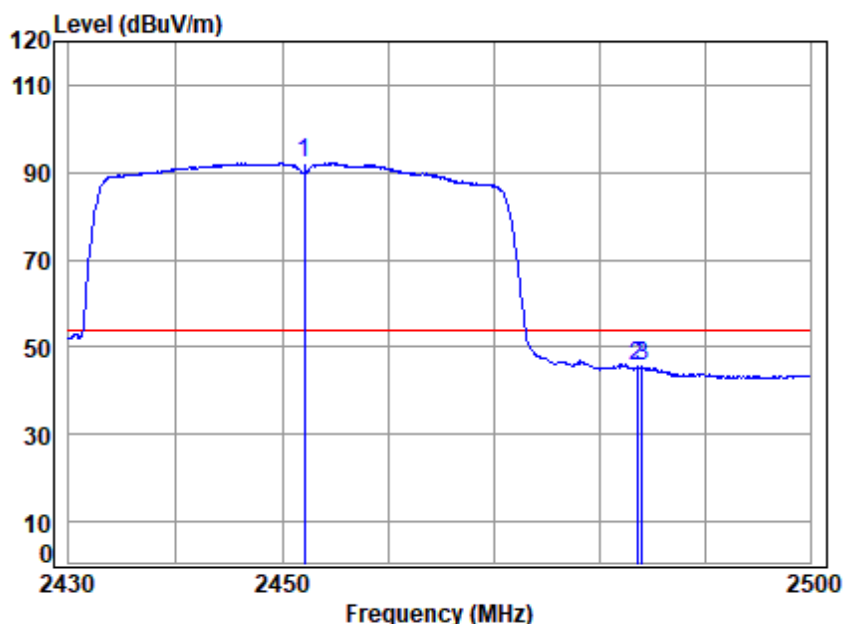
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 107 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2452 Band edge

Note : 2.4G WIFI 11AX40

		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	2452.0000	5.10	27.30	32.50	92.26	92.16	54.00	38.16 Average
2	2483.5000	5.12	27.36	32.50	45.44	45.42	54.00	-8.58 Average
3	2484.0060	5.12	27.37	32.50	45.46	45.45	54.00	-8.55 Average



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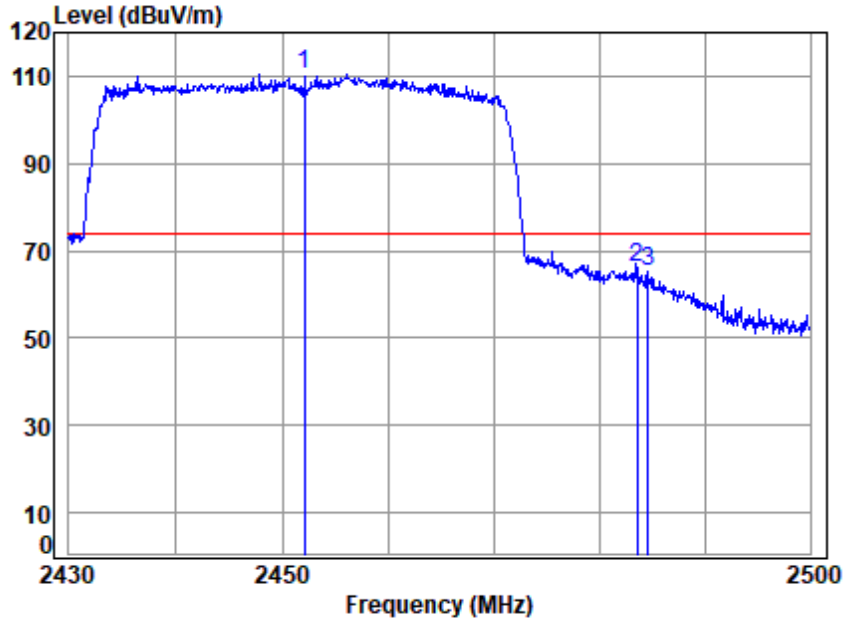
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 108 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2452 Band edge

Note : 2.4G WIFI 11AX40

		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	2452.0000	5.10	27.30	32.50	110.64	110.54	74.00	36.54 Peak
2	2483.5000	5.12	27.36	32.50	66.15	66.13	74.00	-7.87 Peak
3	2484.5700	5.12	27.37	32.50	65.22	65.21	74.00	-8.79 Peak



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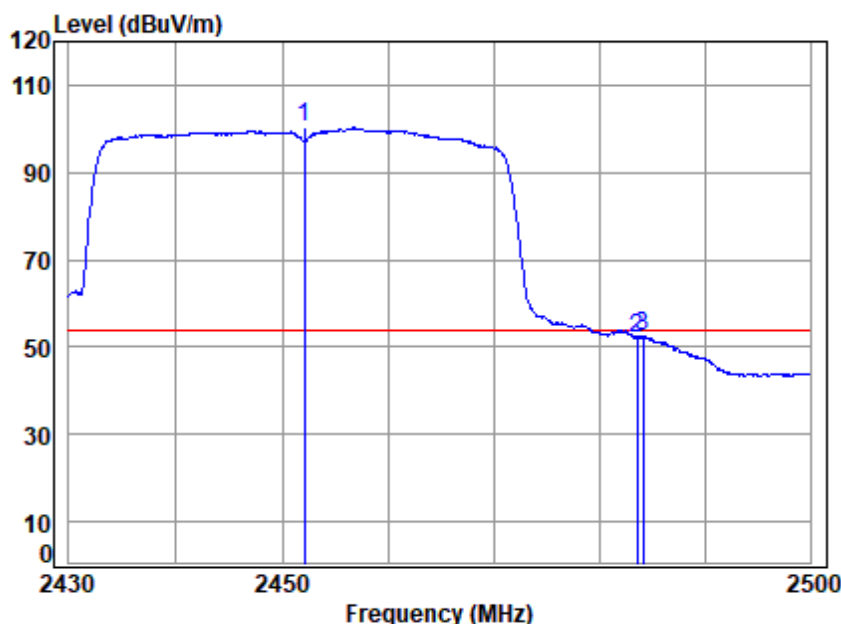
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 109 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2452 Band edge

Note : 2.4G WIFI 11AX40

		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	2452.0000	5.10	27.31	32.50	100.27	100.18	54.00	46.18 Average
2	2483.5000	5.12	27.36	32.50	51.88	51.86	54.00	-2.14 Average
3	2484.0760	5.12	27.37	32.50	52.44	52.43	54.00	-1.57 Average



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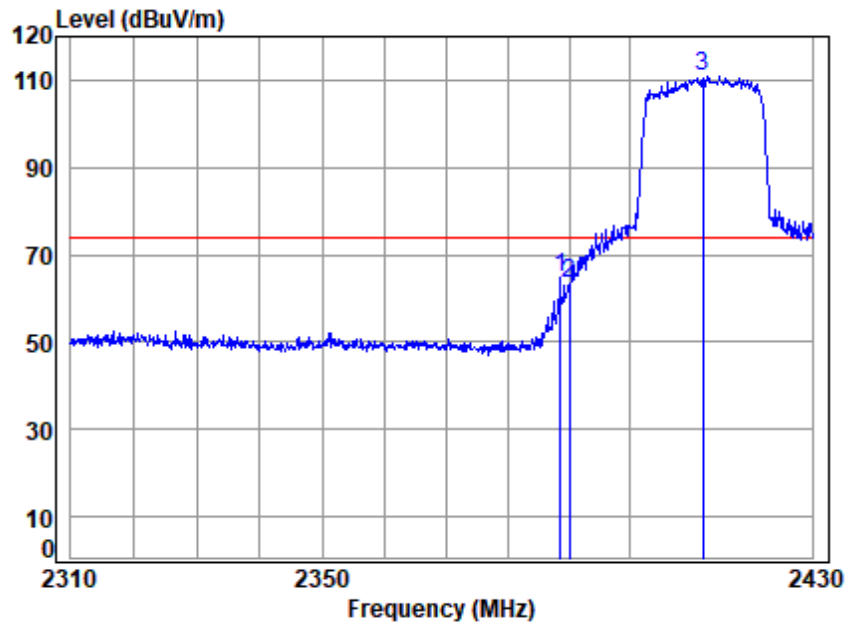
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Report No.: FYCR220800030401

Page: 110 of 291

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 Band edge
Note : 2.4G WIFI 11AX20/P=12

		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	2388.5160	5.05	27.15	32.50	65.09	64.79	74.00	-9.21	peak
2	2390.0000	5.05	27.16	32.50	63.55	63.26	74.00	-10.74	peak
3	2412.0000	5.07	27.21	32.50	110.95	110.73	74.00	36.73	peak



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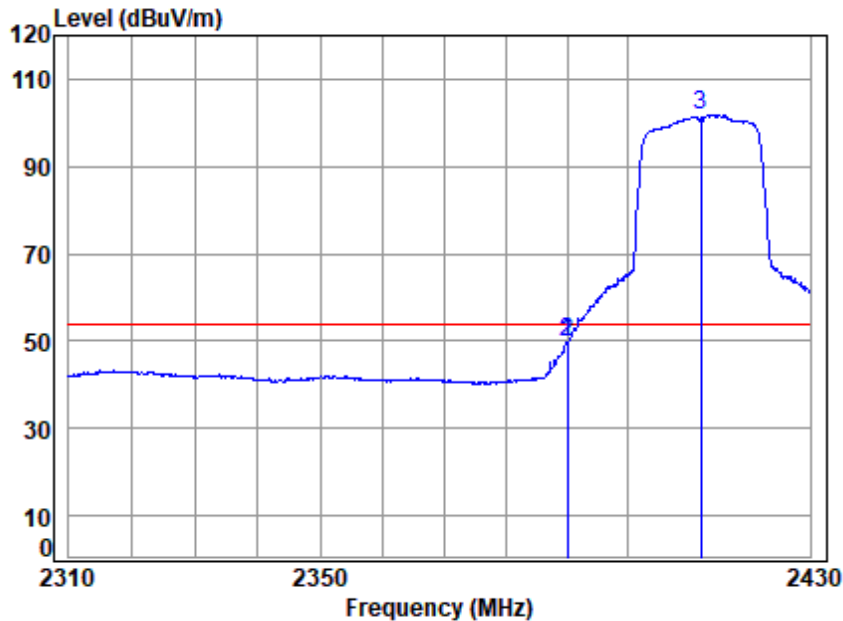
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 111 of 291

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2412 Band edge

Note : 2.4G WIFI 11AX20/P=12

		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	2389.9680	5.05	27.16	32.50	50.09	49.80	54.00	-4.20 Average
2	2390.0000	5.05	27.16	32.50	50.09	49.80	54.00	-4.20 Average
3	2412.0000	5.07	27.21	32.50	101.93	101.71	54.00	47.71 Average



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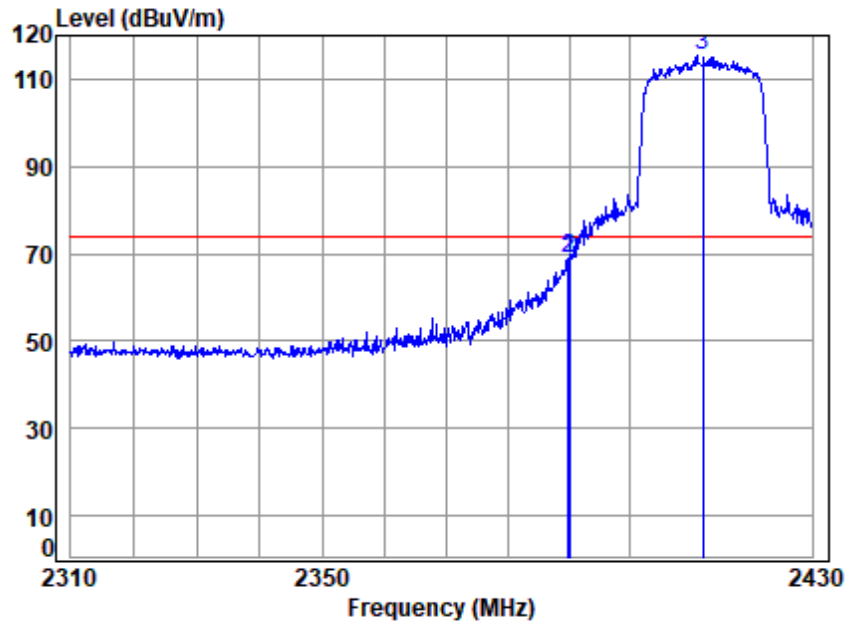
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 112 of 291

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2412 Band edge

Note : 2.4G WIFI 11AX20/P=12

		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 2389.8470	5.05	27.16	32.50	69.34	69.05	74.00	-4.95	Peak
2 2390.0000	5.05	27.16	32.50	69.28	68.99	74.00	-5.01	Peak
3 2412.0000	5.07	27.21	32.50	115.87	115.65	74.00	41.65	Peak



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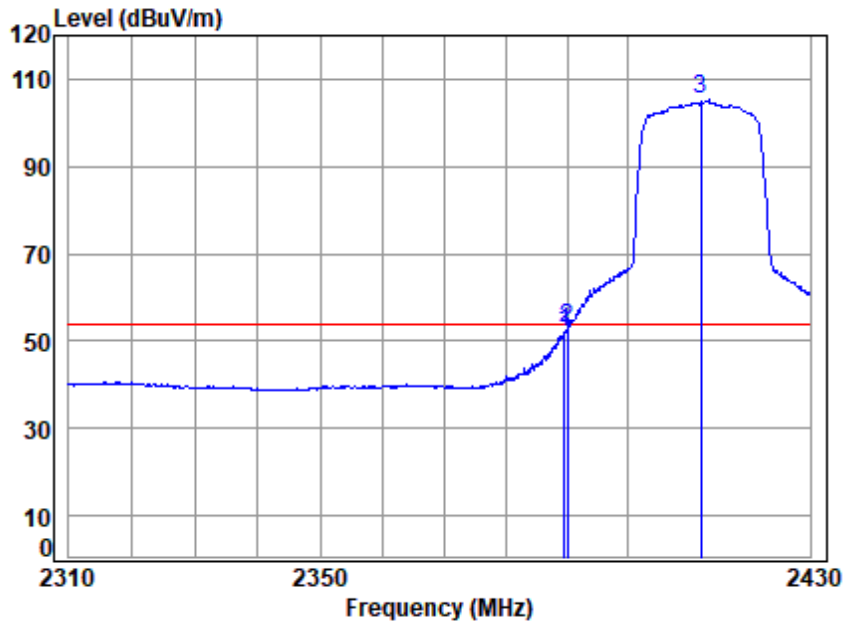
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Report No.: FYCR220800030401

Page: 113 of 291

Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2412 Band edge

Note : 2.4G WIFI 11AX20/P=12

		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 2389.6050	5.05	27.16	32.50	52.20	51.91	54.00	-2.09	Average
2 2390.0000	5.05	27.16	32.50	53.36	53.07	54.00	-0.93	Average
3 2412.0000	5.07	27.21	32.50	105.44	105.22	54.00	51.22	Average



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

Report No.: FYCR220800030401

Page: 114 of 291

7.8 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 52.8 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Adapter 1)_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.
Pre-scan	06	TX mode(Adapter 2)_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.



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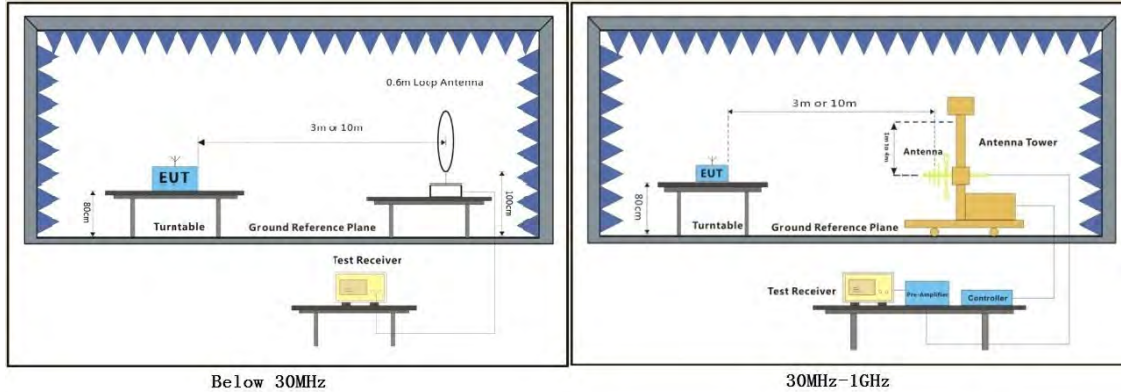
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 115 of 291

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 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.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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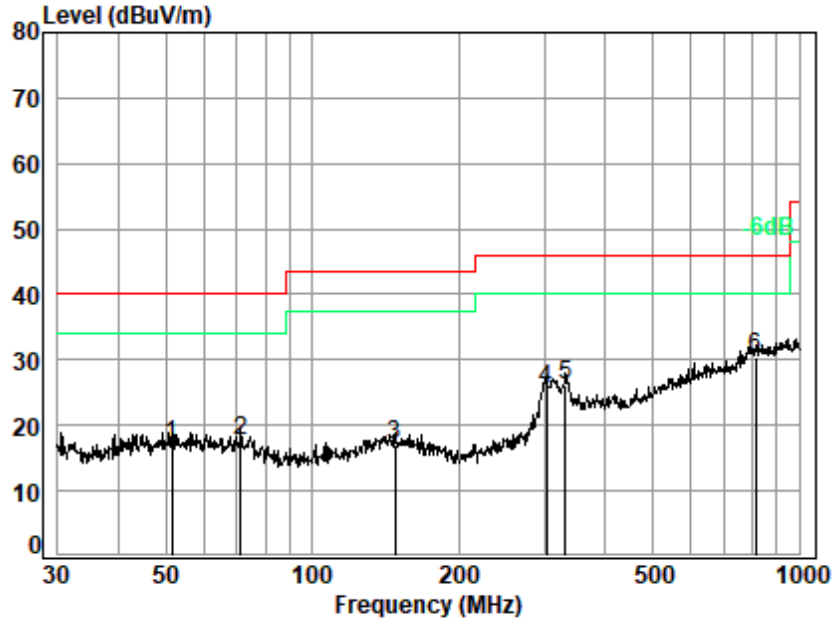
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 116 of 291

Test Mode: 00; Polarity: Horizontal Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 00

		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	51.4807	0.22	17.31	24.89	24.30	16.94	40.00	-23.06 QP
2	71.3300	0.31	15.56	24.82	26.48	17.53	40.00	-22.47 QP
3	147.9214	0.86	17.43	25.54	24.22	16.97	43.50	-26.53 QP
4	302.4812	1.04	18.43	25.60	31.83	25.70	46.00	-20.30 QP
5	331.3547	1.33	19.54	25.62	30.77	26.02	46.00	-19.98 QP
6	813.1116	2.75	27.49	25.68	25.79	30.35	46.00	-15.65 QP



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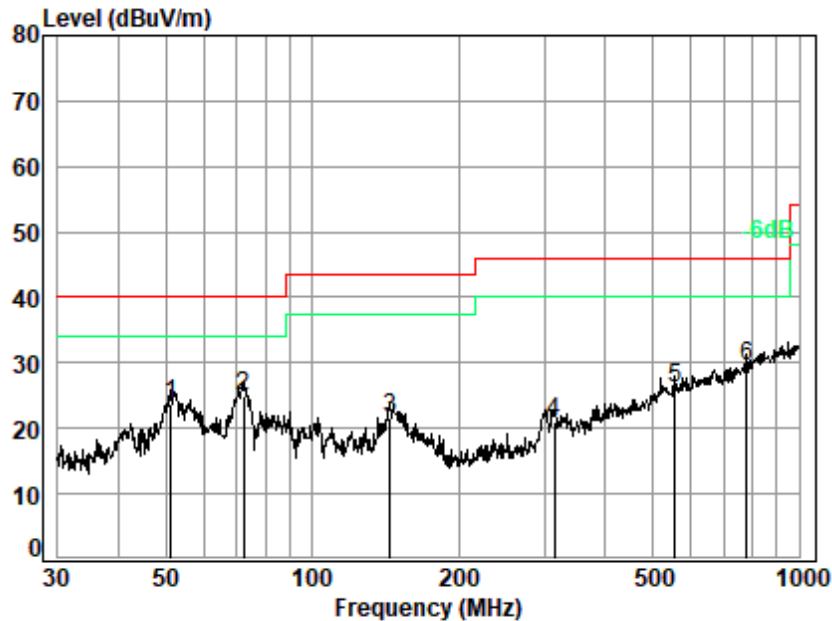
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 117 of 291

Test Mode: 00; Polarity: Vertical Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 00

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	51.1209	0.22	17.33	24.90	31.17	23.82	40.00	-16.18 QP
2	72.3376	0.33	15.29	24.82	34.24	25.04	40.00	-14.96 QP
3	144.3348	0.88	17.44	25.53	28.86	21.65	43.50	-21.85 QP
4	314.3765	1.16	18.99	25.61	26.36	20.90	46.00	-25.10 QP
5	556.7744	1.85	23.89	25.70	26.02	26.06	46.00	-19.94 QP
6	779.6068	2.36	26.79	25.70	26.01	29.46	46.00	-16.54 QP



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

Report No.: FYCR220800030401

Page: 118 of 291

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: 22.2 °C Humidity: 55.5 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Adapter 1; 1st source antenna)_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.
Final test	06	TX mode(Adapter 2; 2nd source antenna)_Keep the EUT in continuously transmitting mode with all modulation types of Beamforming mode (802.11n/ax) and Non-Beamforming mode (802.11b/g/n/ax) . 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

Remark: the EUT have two different manufacturers of antennas: The 1st source antennas (W1: VT-WF-1; W2: VT-WF-2) was performed full testing, the 2nd source antennas (W1: N03NKACE-PK1-LE1X90BUR1; W2: N03NKACF-PK1-LW1X120BUR3) was performed the worst mode of testing according to the applicant declare that the antenna specifications are the same.



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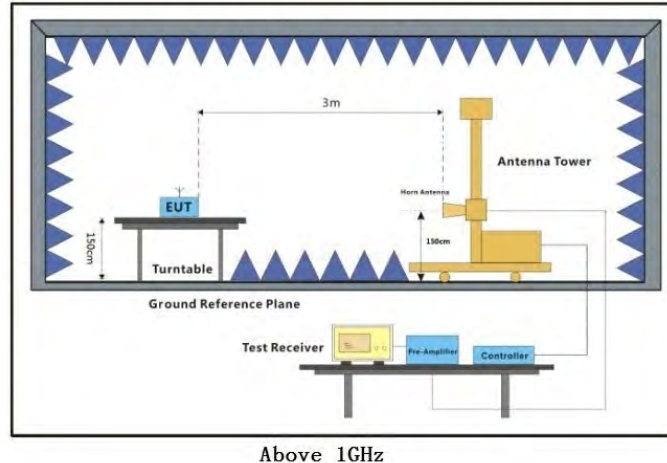
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 119 of 291

7.9.3 Test Setup Diagram



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 120 of 291

7.9.4 Measurement Procedure and Data

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

Remark:

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



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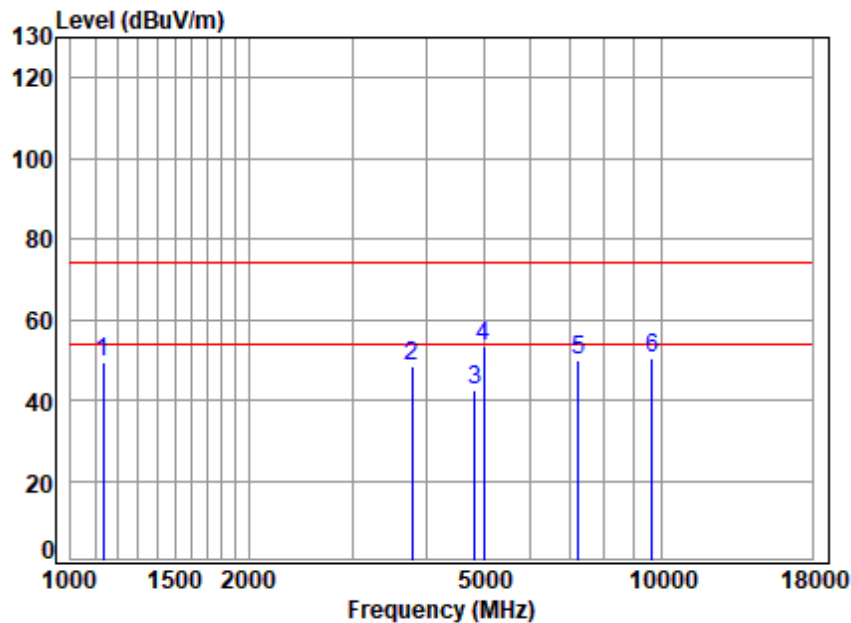
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 121 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1135.6170	2.99	24.24	52.61	74.98	49.60	74.00	-24.40	peak
2	3779.4220	7.28	29.16	52.86	64.93	48.51	74.00	-25.49	peak
3	4824.0000	8.02	30.99	53.05	56.70	42.66	74.00	-31.34	peak
4	5002.4970	8.30	31.41	53.10	66.88	53.49	74.00	-20.51	peak
5	7236.0000	8.31	36.09	53.52	58.83	49.71	74.00	-24.29	peak
6	9648.0000	11.38	37.62	53.54	54.98	50.44	74.00	-23.56	peak



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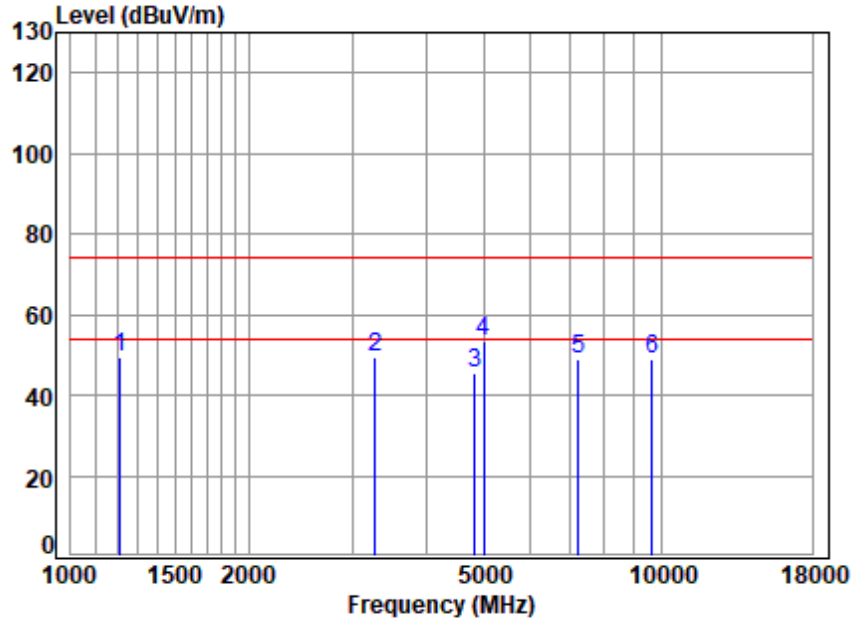
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 122 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

		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	1213.6770	3.18	24.29	52.67	74.63	49.43	74.00	-24.57	peak
2	3280.3260	6.46	28.66	53.01	67.44	49.55	74.00	-24.45	peak
3	4824.0000	8.02	30.99	53.05	59.66	45.62	74.00	-28.38	peak
4	5002.4970	8.30	31.41	53.10	66.64	53.25	74.00	-20.75	peak
5	7236.0000	8.31	36.09	53.52	57.97	48.85	74.00	-25.15	peak
6	9648.0000	11.38	37.62	53.54	53.29	48.75	74.00	-25.25	peak



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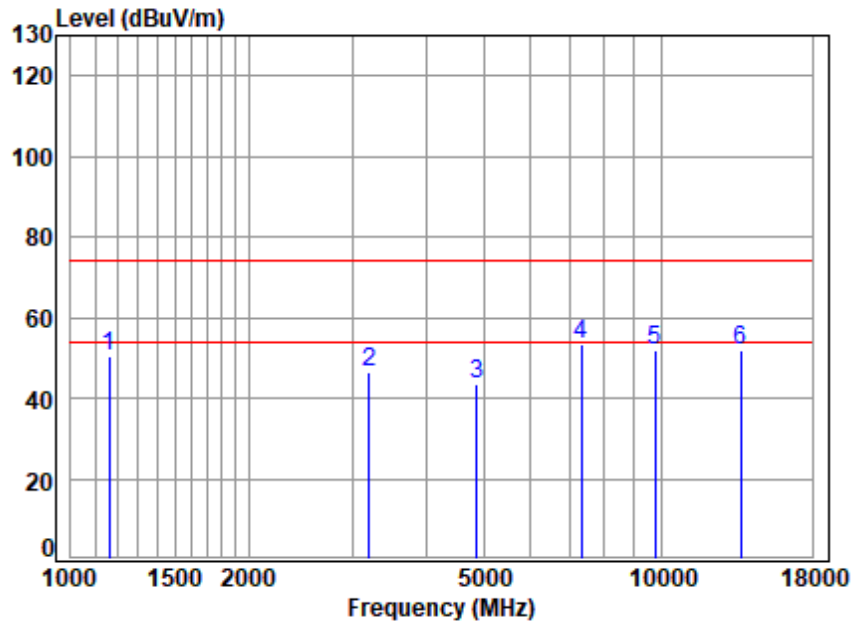
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 123 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

		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	1162.1820	3.06	24.26	52.63	75.80	50.49	74.00	-23.51	peak
2	3196.0940	6.24	28.64	53.03	64.85	46.70	74.00	-27.30	peak
3	4874.0000	8.10	31.11	53.07	57.31	43.45	74.00	-30.55	peak
4	7311.0000	8.34	36.18	53.53	62.19	53.18	74.00	-20.82	peak
5	9748.0000	11.30	37.84	53.44	55.96	51.66	74.00	-22.34	peak
6	13638.490	11.92	40.86	53.94	53.00	51.84	74.00	-22.16	Peak



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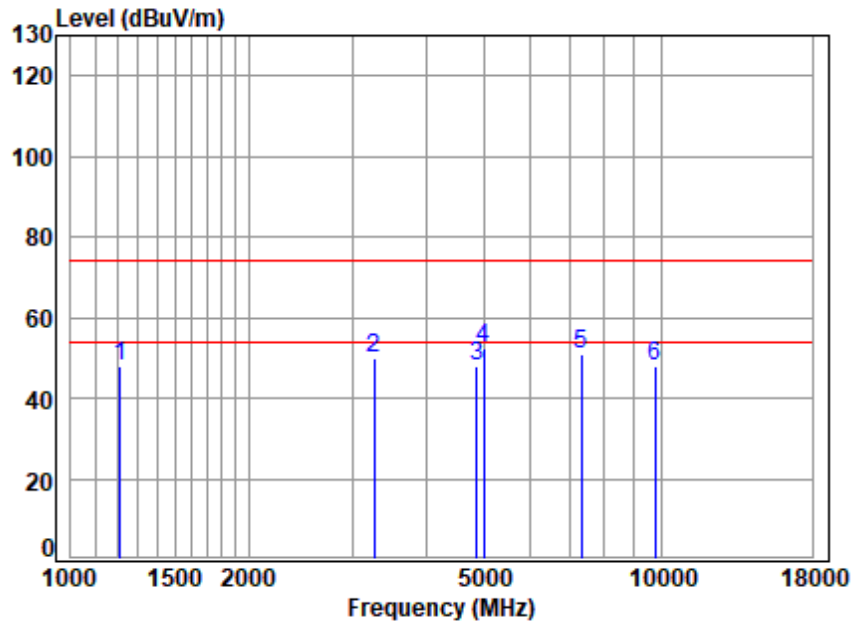
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 124 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

		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	1213.6770	3.18	24.29	52.67	73.05	47.85	74.00	-26.15	peak
2	3261.4180	6.41	28.65	53.01	67.88	49.93	74.00	-24.07	peak
3	4874.0000	8.10	31.11	53.07	61.71	47.85	74.00	-26.15	peak
4	5002.4970	8.30	31.41	53.10	65.99	52.60	74.00	-21.40	peak
5	7311.0000	8.34	36.18	53.53	59.71	50.70	74.00	-23.30	peak
6	9748.0000	11.30	37.84	53.44	52.28	47.98	74.00	-26.02	peak



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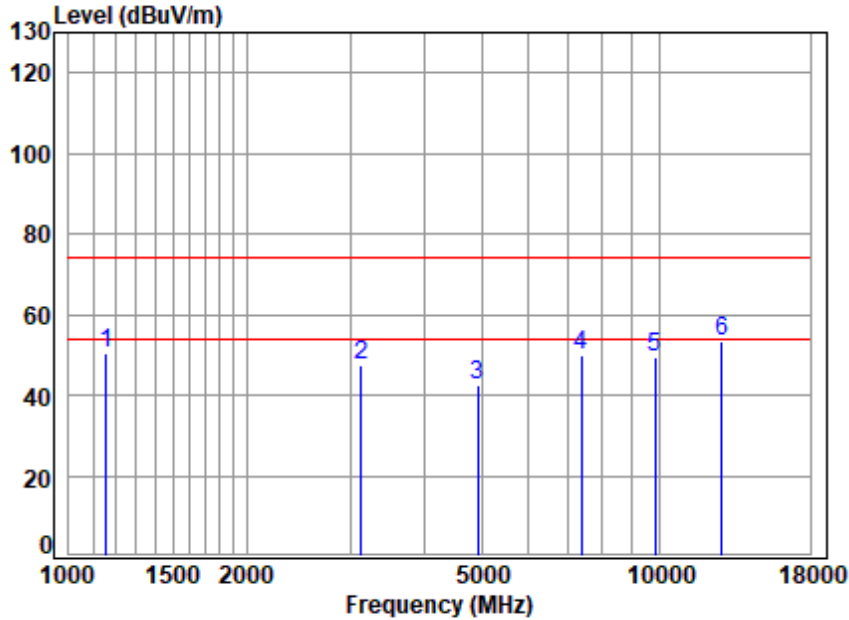
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 125 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

		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	1155.4830	3.04	24.26	52.63	75.81	50.48	74.00	-23.52	peak
2	3132.0790	6.07	28.63	53.06	66.04	47.68	74.00	-26.32	peak
3	4924.0000	8.18	31.23	53.08	55.94	42.27	74.00	-31.73	peak
4	7386.0000	8.38	36.27	53.54	59.03	50.14	74.00	-23.86	peak
5	9848.0000	11.23	38.07	53.35	53.34	49.29	74.00	-24.71	peak
6	12761.300	12.47	39.72	54.15	55.57	53.61	74.00	-20.39	Peak



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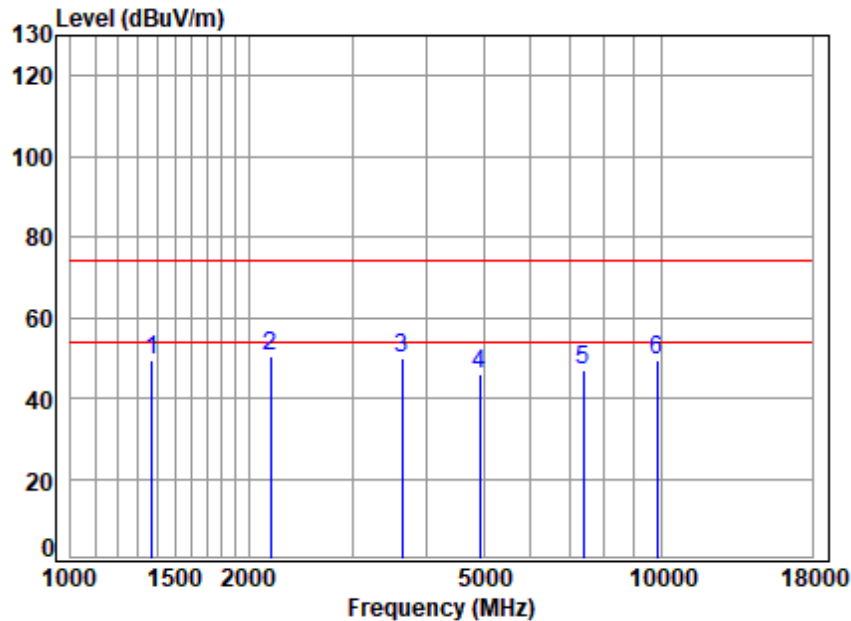
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 126 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

		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	1370.3280	3.52	24.21	52.77	74.42	49.38	74.00	-24.62	peak
2	2176.0470	4.89	26.65	53.10	72.15	50.59	74.00	-23.41	Peak
3	3640.0450	7.14	28.94	52.90	66.56	49.74	74.00	-24.26	peak
4	4924.0000	8.18	31.23	53.08	59.60	45.93	74.00	-28.07	peak
5	7386.0000	8.38	36.27	53.54	56.09	47.20	74.00	-26.80	peak
6	9848.0000	11.23	38.07	53.35	53.35	49.30	74.00	-24.70	peak



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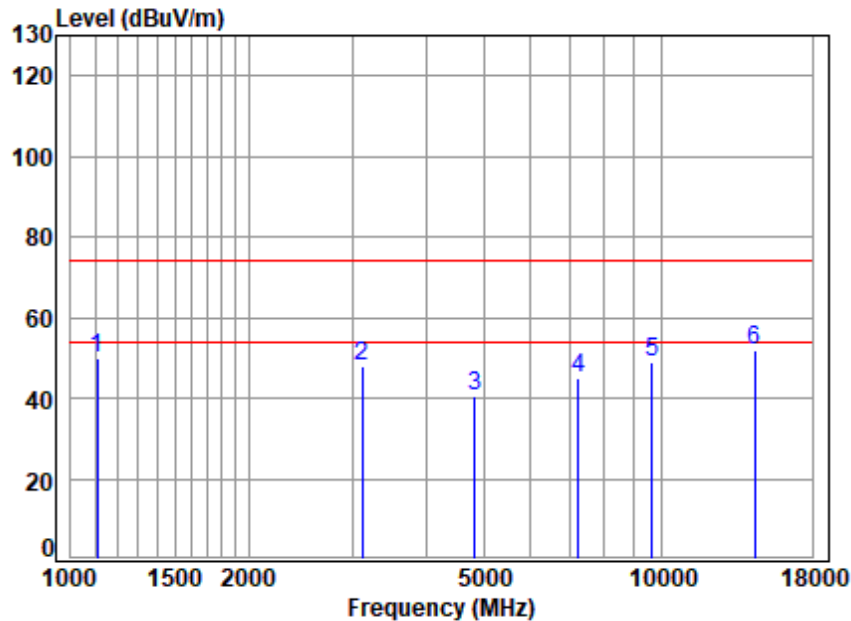
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 127 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G

	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 1109.6600	2.93	24.21	52.59	75.59	50.14	74.00	-23.86	peak
2 3114.0250	6.03	28.62	53.06	66.11	47.70	74.00	-26.30	peak
3 4824.0000	8.02	30.99	53.05	54.37	40.33	74.00	-33.67	peak
4 7236.0000	8.31	36.09	53.52	54.26	45.14	74.00	-28.86	peak
5 9648.0000	11.38	37.62	53.54	53.39	48.85	74.00	-25.15	peak
6 14408.430	11.41	41.54	53.76	52.58	51.77	74.00	-22.23	Peak



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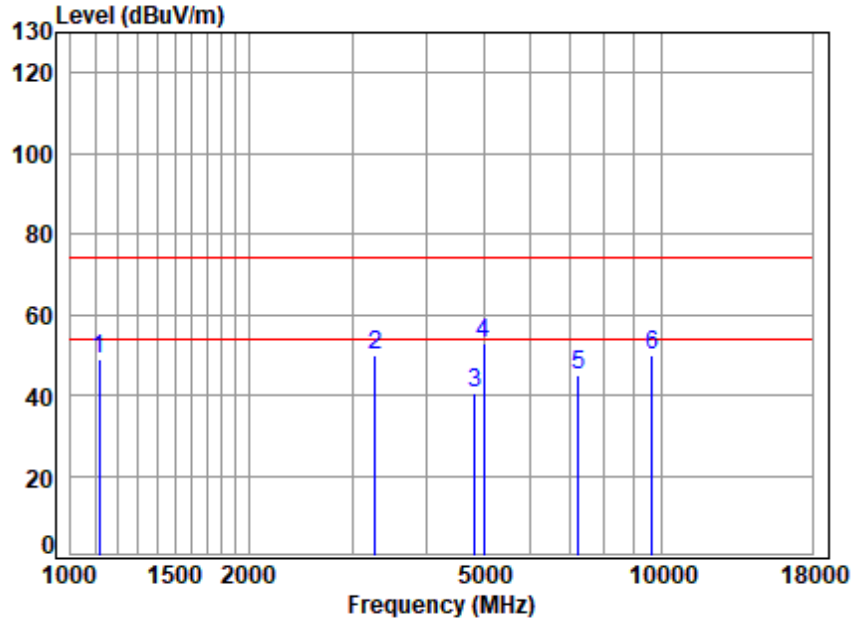
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 128 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.0930	2.95	24.22	52.60	74.18	48.75	74.00	-25.25	peak
2	3270.8580	6.43	28.66	53.01	67.72	49.80	74.00	-24.20	peak
3	4824.0000	8.02	30.99	53.05	54.62	40.58	74.00	-33.42	peak
4	5002.4970	8.30	31.41	53.10	66.38	52.99	74.00	-21.01	peak
5	7236.0000	8.31	36.09	53.52	54.10	44.98	74.00	-29.02	peak
6	9648.0000	11.38	37.62	53.54	54.58	50.04	74.00	-23.96	peak



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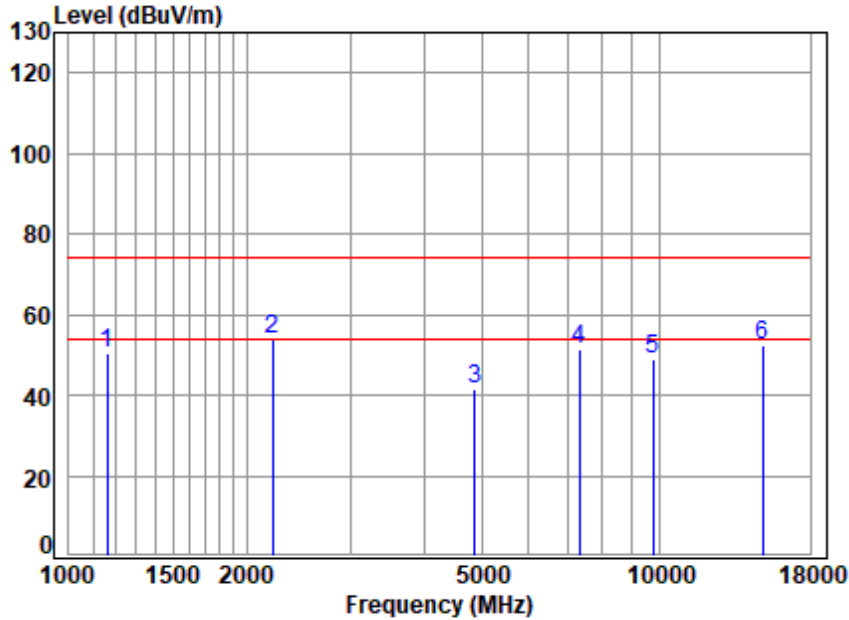
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 129 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

	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 1162.1820	3.06	24.26	52.63	75.82	50.51	74.00	-23.49	peak
2 2214.1140	4.92	26.75	53.10	75.34	53.91	74.00	-20.09	Peak
3 4874.0000	8.10	31.11	53.07	55.33	41.47	74.00	-32.53	peak
4 7311.0000	8.34	36.18	53.53	60.31	51.30	74.00	-22.70	peak
5 9748.0000	11.30	37.84	53.44	53.29	48.99	74.00	-25.01	peak
6 14960.120	12.30	41.60	53.70	51.97	52.17	74.00	-21.83	Peak



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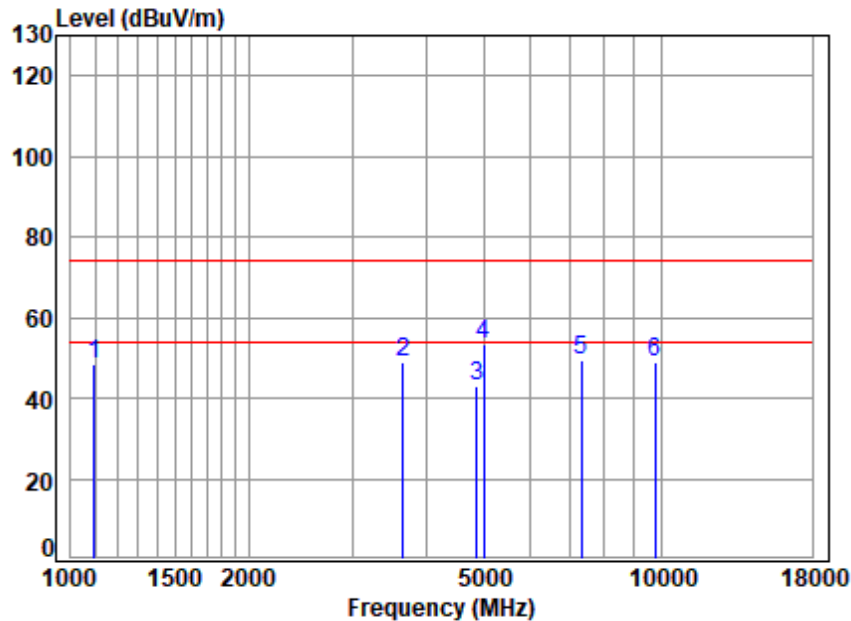
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 130 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G

		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	1096.9040	2.90	24.20	52.58	73.69	48.21	74.00	-25.79	peak
2	3650.5820	7.15	28.95	52.90	65.53	48.73	74.00	-25.27	peak
3	4874.0000	8.10	31.11	53.07	56.81	42.95	74.00	-31.05	peak
4	5002.4970	8.30	31.41	53.10	66.56	53.17	74.00	-20.83	peak
5	7311.0000	8.34	36.18	53.53	58.64	49.63	74.00	-24.37	peak
6	9748.0000	11.30	37.84	53.44	53.30	49.00	74.00	-25.00	peak



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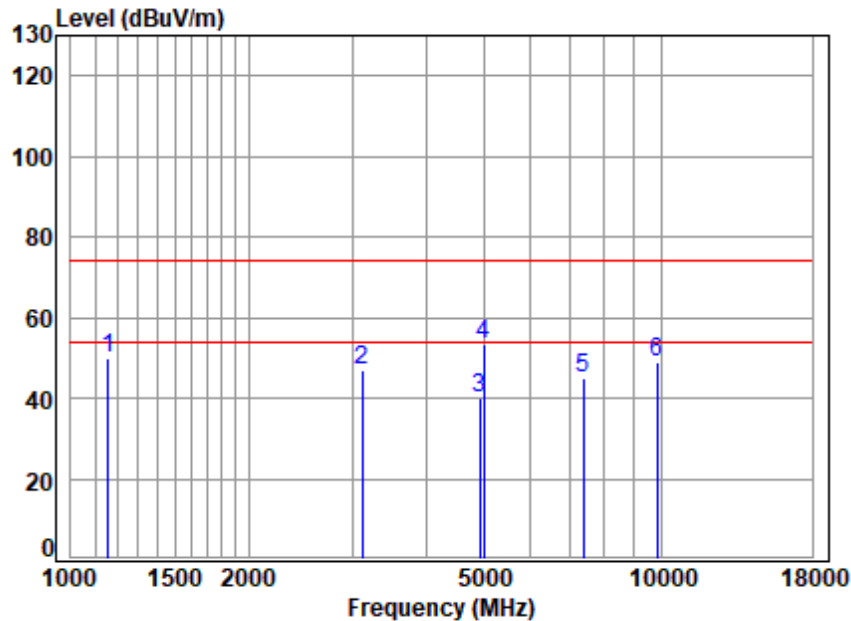
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 131 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

	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 1155.4830	3.04	24.26	52.63	75.41	50.08	74.00	-23.92	peak
2 3114.0250	6.03	28.62	53.06	65.42	47.01	74.00	-26.99	peak
3 4924.0000	8.18	31.23	53.08	53.88	40.21	74.00	-33.79	peak
4 5002.4970	8.30	31.41	53.10	66.66	53.27	74.00	-20.73	peak
5 7386.0000	8.38	36.27	53.54	53.83	44.94	74.00	-29.06	peak
6 9848.0000	11.23	38.07	53.35	53.06	49.01	74.00	-24.99	peak



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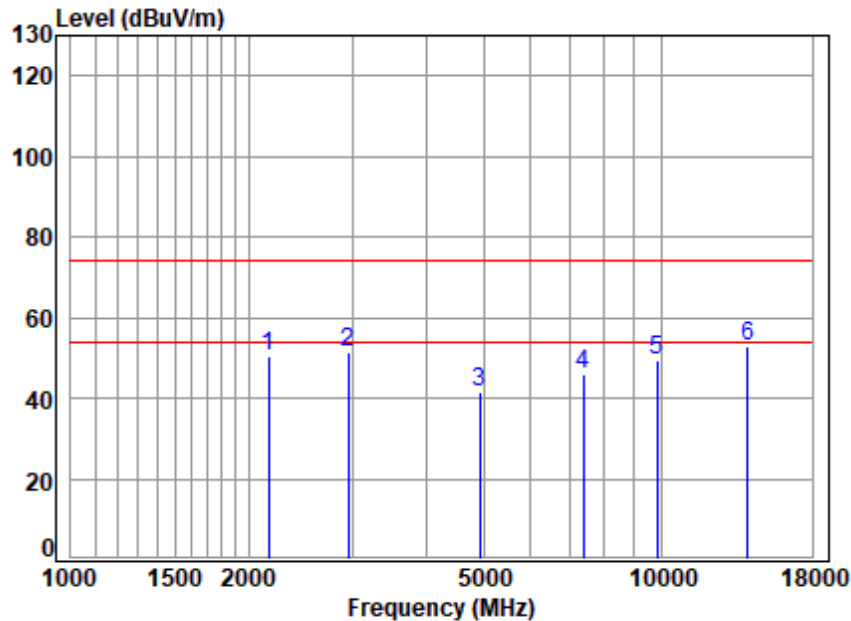
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 132 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G

		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	2163.5040	4.88	26.62	53.10	72.08	50.48	74.00	-23.52	Peak
2	2956.1550	5.67	28.50	53.10	70.53	51.60	74.00	-22.40	Peak
3	4924.0000	8.18	31.23	53.08	55.23	41.56	74.00	-32.44	peak
4	7386.0000	8.38	36.27	53.54	54.92	46.03	74.00	-27.97	peak
5	9848.0000	11.23	38.07	53.35	53.38	49.33	74.00	-24.67	peak
6	13997.930	11.48	41.50	53.80	53.63	52.81	74.00	-21.19	Peak



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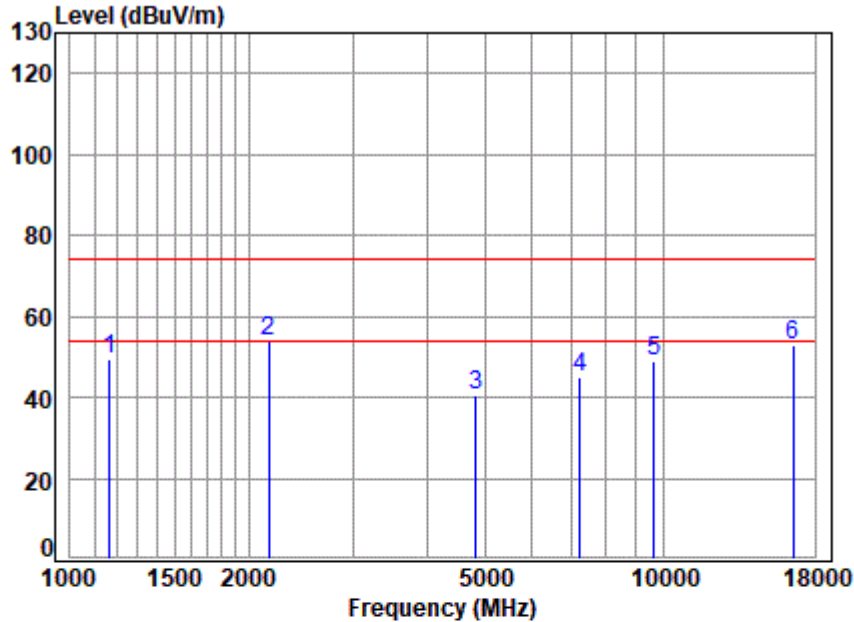
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 133 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2412 TX RSE

Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.5460	3.07	24.27	52.63	74.84	49.55	74.00	-24.45	peak
2	2163.5040	4.88	26.62	53.10	75.58	53.98	74.00	-20.02	Peak
3	4824.0000	8.02	30.99	53.05	54.50	40.46	74.00	-33.54	peak
4	7236.0000	8.31	36.09	53.52	54.27	45.15	74.00	-28.85	peak
5	9648.0000	11.38	37.62	53.54	53.51	48.97	74.00	-25.03	peak
6	16552.730	14.65	40.10	52.86	51.10	52.99	74.00	-21.01	Peak



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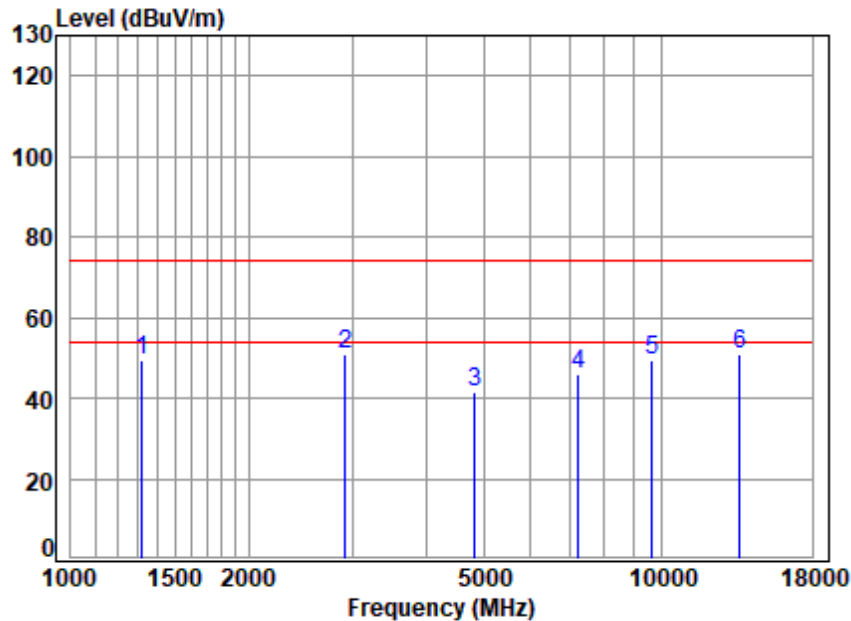
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 134 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2412 TX RSE

Note : 2.4G 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	1319.7940	3.41	24.24	52.74	74.49	49.40	74.00	-24.60 peak
2	2922.1740	5.63	28.43	53.10	70.06	51.02	74.00	-22.98 Peak
3	4824.0000	8.02	30.99	53.05	55.43	41.39	74.00	-32.61 peak
4	7236.0000	8.31	36.09	53.52	55.19	46.07	74.00	-27.93 peak
5	9648.0000	11.38	37.62	53.54	53.76	49.22	74.00	-24.78 peak
6	13599.130	11.97	40.79	53.96	52.26	51.06	74.00	-22.94 Peak



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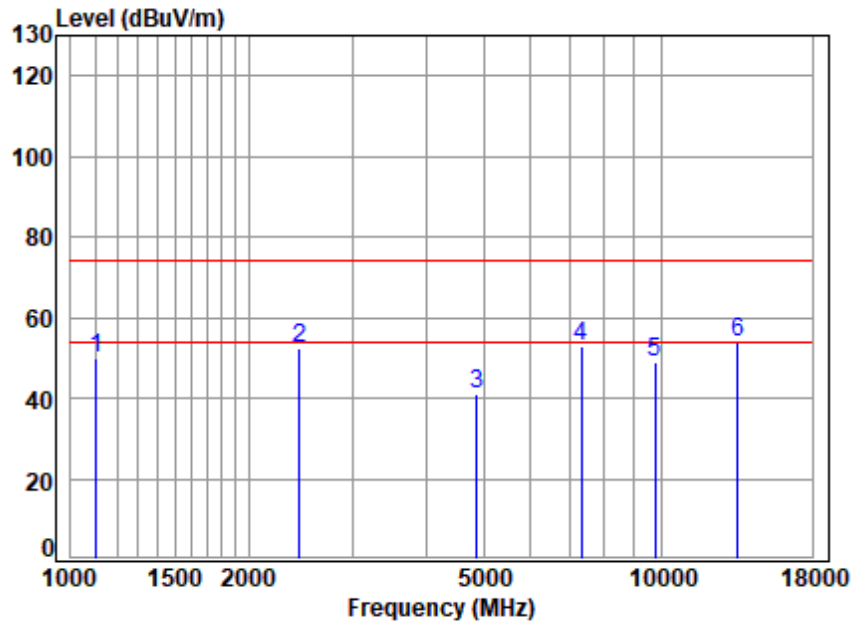
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 135 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2437 TX RSE

Note : 2.4G 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	1106.4570	2.92	24.21	52.59	75.58	50.12	74.00	-23.88	peak
2	2435.7010	5.09	27.26	53.10	73.09	52.34	74.00	-21.66	Peak
3	4874.0000	8.10	31.11	53.07	54.69	40.83	74.00	-33.17	peak
4	7311.0000	8.34	36.18	53.53	61.98	52.97	74.00	-21.03	peak
5	9748.0000	11.30	37.84	53.44	53.47	49.17	74.00	-24.83	peak
6	13481.720	12.10	40.58	54.00	55.29	53.97	74.00	-20.03	Peak



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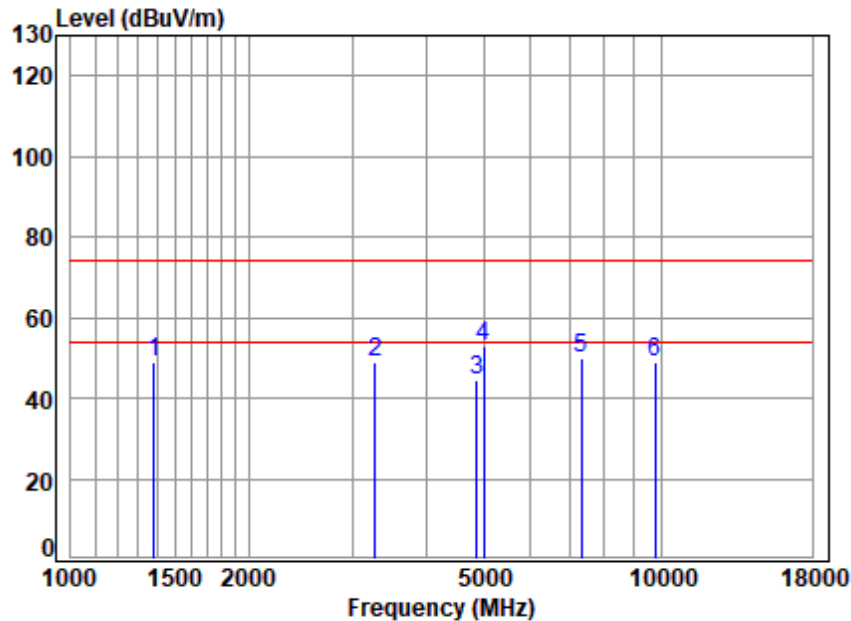
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 136 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2437 TX RSE

Note : 2.4G 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	1382.2620	3.54	24.21	52.78	73.73	48.70	74.00	-25.30 peak
2	3280.3260	6.46	28.66	53.01	66.95	49.06	74.00	-24.94 peak
3	4874.0000	8.10	31.11	53.07	58.35	44.49	74.00	-29.51 peak
4	5002.4970	8.30	31.41	53.10	66.26	52.87	74.00	-21.13 peak
5	7311.0000	8.34	36.18	53.53	59.03	50.02	74.00	-23.98 peak
6	9748.0000	11.30	37.84	53.44	53.41	49.11	74.00	-24.89 peak



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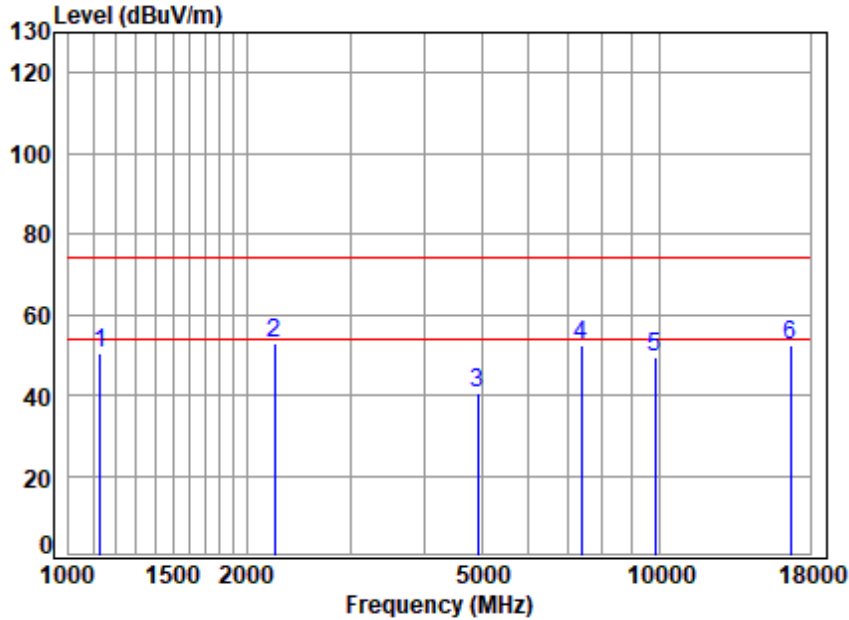
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 137 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2462 TX RSE

Note : 2.4G 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	1132.3400	2.99	24.24	52.61	75.77	50.39	74.00	-23.61	peak
2	2233.3960	4.94	26.79	53.10	74.42	53.05	74.00	-20.95	Peak
3	4924.0000	8.18	31.23	53.08	54.10	40.43	74.00	-33.57	peak
4	7386.0000	8.38	36.27	53.54	61.27	52.38	74.00	-21.62	peak
5	9848.0000	11.23	38.07	53.35	53.62	49.57	74.00	-24.43	peak
6	16648.690	14.57	40.43	52.81	50.29	52.48	74.00	-21.52	Peak



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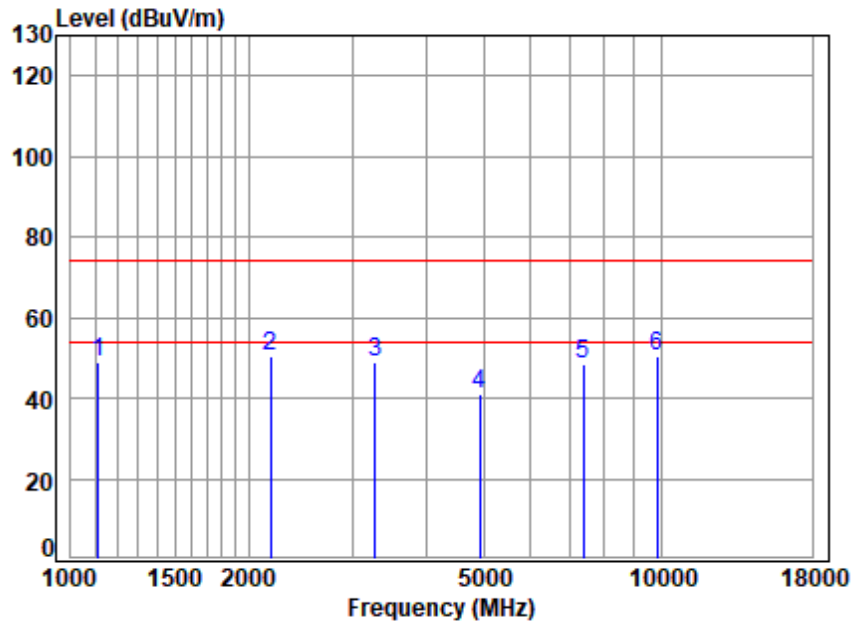
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 138 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2462 TX RSE

Note : 2.4G 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	1112.8720	2.94	24.22	52.59	74.53	49.10	74.00	-24.90	peak
2	2182.3460	4.90	26.67	53.10	72.15	50.62	74.00	-23.38	Peak
3	3280.3260	6.46	28.66	53.01	66.69	48.80	74.00	-25.20	peak
4	4924.0000	8.18	31.23	53.08	54.45	40.78	74.00	-33.22	peak
5	7386.0000	8.38	36.27	53.54	57.42	48.53	74.00	-25.47	peak
6	9848.0000	11.23	38.07	53.35	54.42	50.37	74.00	-23.63	peak



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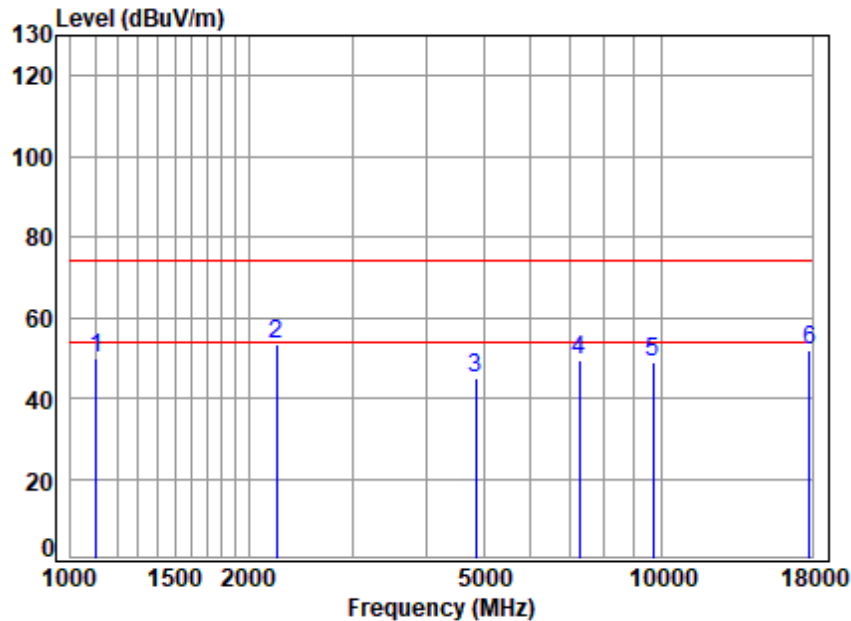
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 139 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2422 TX RSE

Note : 2.4G WIFI 11N40

		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	1103.2640	2.91	24.21	52.59	75.60	50.13	74.00	-23.87	peak
2	2233.3960	4.94	26.79	53.10	74.66	53.29	74.00	-20.71	Peak
3	4844.0000	8.05	31.04	53.06	58.71	44.74	74.00	-29.26	peak
4	7266.0000	8.32	36.12	53.53	58.76	49.67	74.00	-24.33	peak
5	9688.0000	11.35	37.71	53.50	53.28	48.84	74.00	-25.16	peak
6	17793.090	14.67	45.83	52.12	43.55	51.93	74.00	-22.07	Peak



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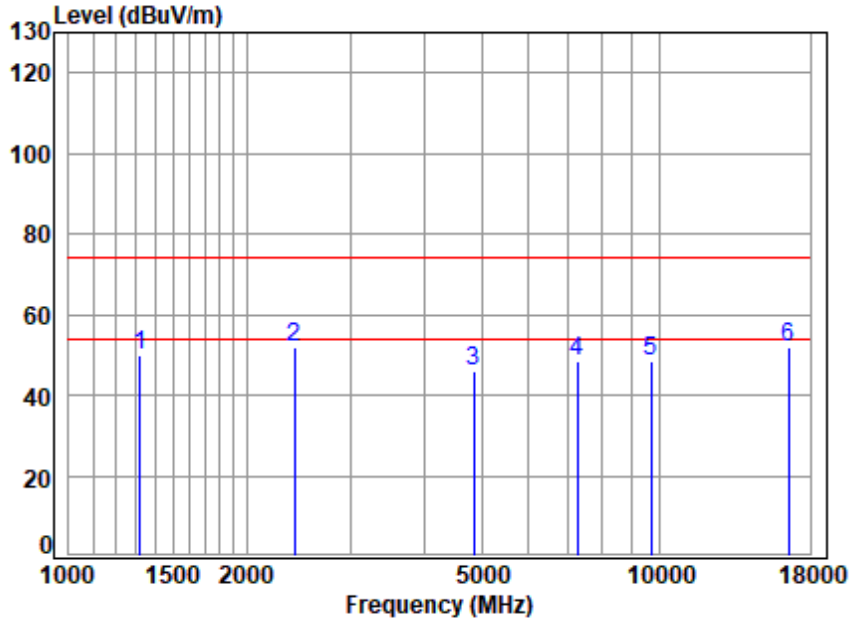
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 140 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2422 TX RSE
Note : 2.4G WIFI 11N40

		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	1319.7940	3.41	24.24	52.74	74.80	49.71	74.00	-24.29	peak
2	2414.6720	5.07	27.21	53.10	72.62	51.80	74.00	-22.20	Peak
3	4844.0000	8.05	31.04	53.06	60.07	46.10	74.00	-27.90	peak
4	7266.0000	8.32	36.12	53.53	57.58	48.49	74.00	-25.51	peak
5	9688.0000	11.35	37.71	53.50	52.91	48.47	74.00	-25.53	peak
6	16552.730	14.65	40.10	52.86	49.98	51.87	74.00	-22.13	Peak



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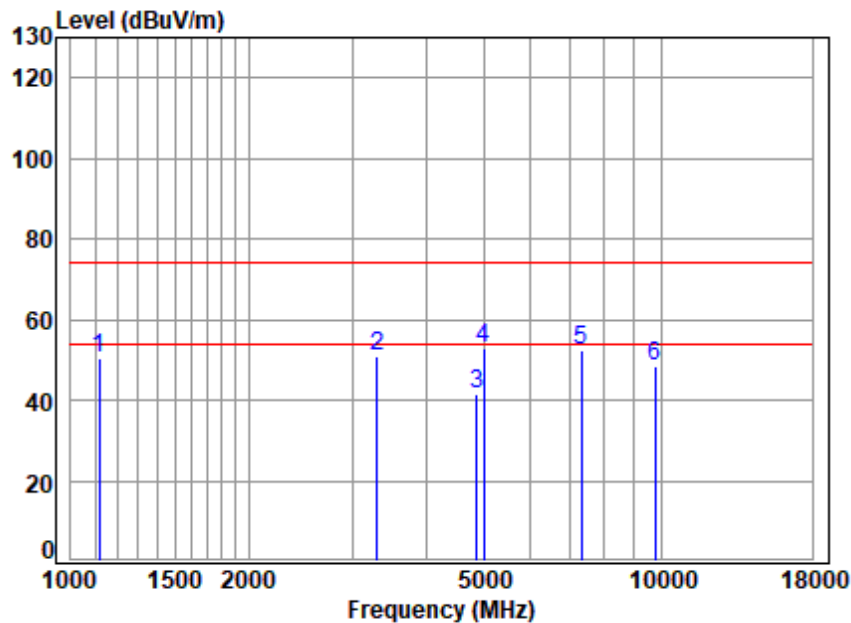
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 141 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2437 TX RSE

Note : 2.4G WIFI 11N40

		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	1119.3230	2.95	24.22	52.60	75.71	50.28	74.00	-23.72 peak
2	3299.3440	6.50	28.66	53.00	68.59	50.75	74.00	-23.25 peak
3	4874.0000	8.10	31.11	53.07	55.59	41.73	74.00	-32.27 peak
4	5002.4970	8.30	31.41	53.10	66.50	53.11	74.00	-20.89 peak
5	7311.0000	8.34	36.18	53.53	61.40	52.39	74.00	-21.61 peak
6	9748.0000	11.30	37.84	53.44	52.96	48.66	74.00	-25.34 peak



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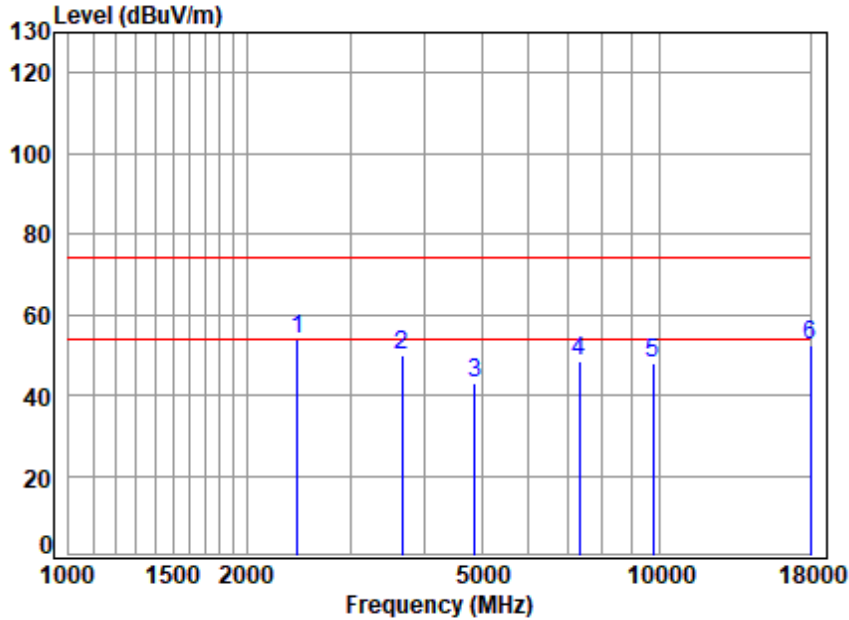
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 142 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N40

		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	2435.7010	5.09	27.26	53.10	74.44	53.69	74.00	-20.31	Peak
2	3671.7460	7.17	28.99	52.89	66.60	49.87	74.00	-24.13	peak
3	4874.0000	8.10	31.11	53.07	56.68	42.82	74.00	-31.18	peak
4	7311.0000	8.34	36.18	53.53	57.54	48.53	74.00	-25.47	peak
5	9748.0000	11.30	37.84	53.44	52.41	48.11	74.00	-25.89	peak
6	18000.000	14.79	46.90	52.00	42.61	52.30	74.00	-21.70	Peak



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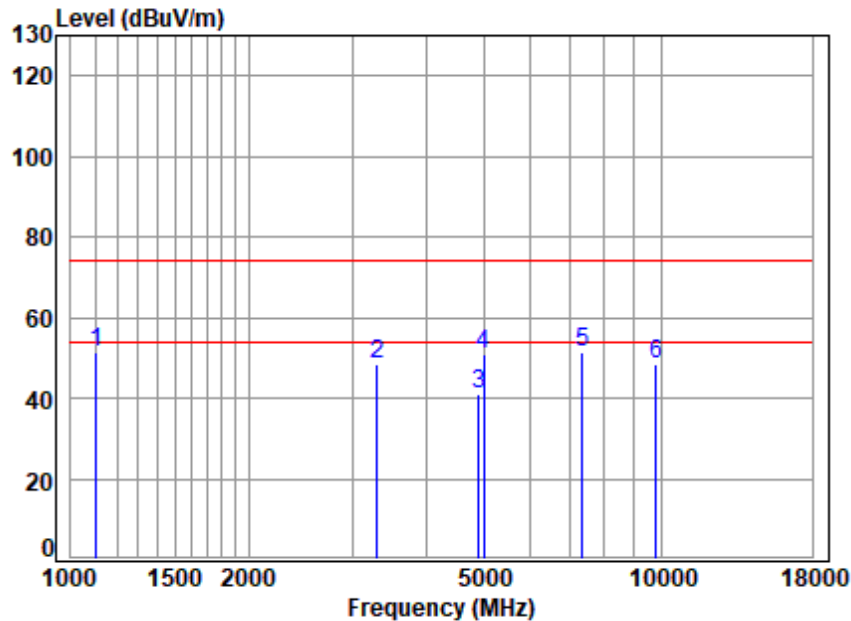
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 143 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2452 TX RSE

Note : 2.4G WIFI 11N40

		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	1106.4570	2.92	24.21	52.59	76.65	51.19	74.00	-22.81	peak
2	3299.3440	6.50	28.66	53.00	66.46	48.62	74.00	-25.38	peak
3	4904.0000	8.15	31.18	53.07	54.58	40.84	74.00	-33.16	peak
4	5002.4970	8.30	31.41	53.10	64.53	51.14	74.00	-22.86	peak
5	7356.0000	8.36	36.23	53.54	60.46	51.51	74.00	-22.49	peak
6	9808.0000	11.26	37.98	53.38	52.79	48.65	74.00	-25.35	peak



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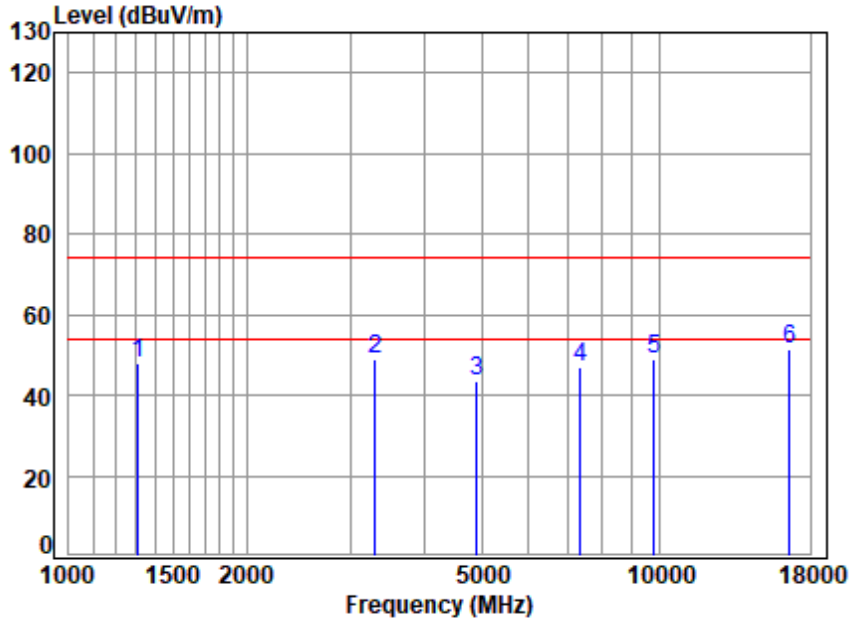
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 144 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2452 TX RSE
Note : 2.4G WIFI 11N40

		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	1308.3990	3.39	24.24	52.73	72.99	47.89	74.00	-26.11	peak
2	3299.3440	6.50	28.66	53.00	66.89	49.05	74.00	-24.95	peak
3	4904.0000	8.15	31.18	53.07	57.41	43.67	74.00	-30.33	peak
4	7356.0000	8.36	36.23	53.54	56.08	47.13	74.00	-26.87	peak
5	9808.0000	11.26	37.98	53.38	52.94	48.80	74.00	-25.20	peak
6	16600.640	14.61	40.27	52.84	49.45	51.49	74.00	-22.51	Peak



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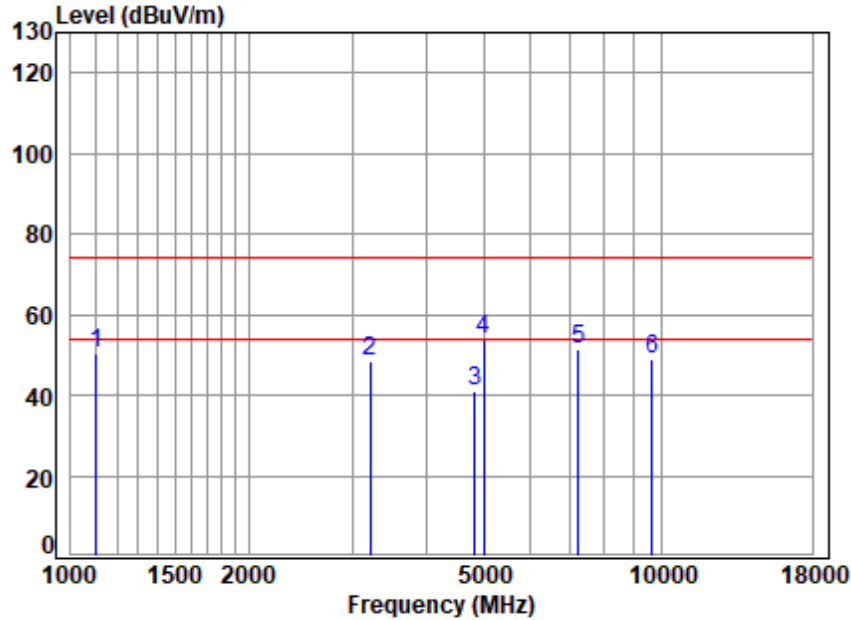
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 145 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2412 TX RSE

Note : 2.4G WIFI 11AX20

		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	1103.2640	2.91	24.21	52.59	76.13	50.66	74.00	-23.34 peak
2	3214.6230	6.29	28.64	53.03	66.46	48.36	74.00	-25.64 peak
3	4824.0000	8.02	30.99	53.05	54.97	40.93	74.00	-33.07 peak
4	5002.4970	8.30	31.41	53.10	67.26	53.87	74.00	-20.13 peak
5	7236.0000	8.31	36.09	53.52	60.40	51.28	74.00	-22.72 peak
6	9648.0000	11.38	37.62	53.54	53.72	49.18	74.00	-24.82 peak



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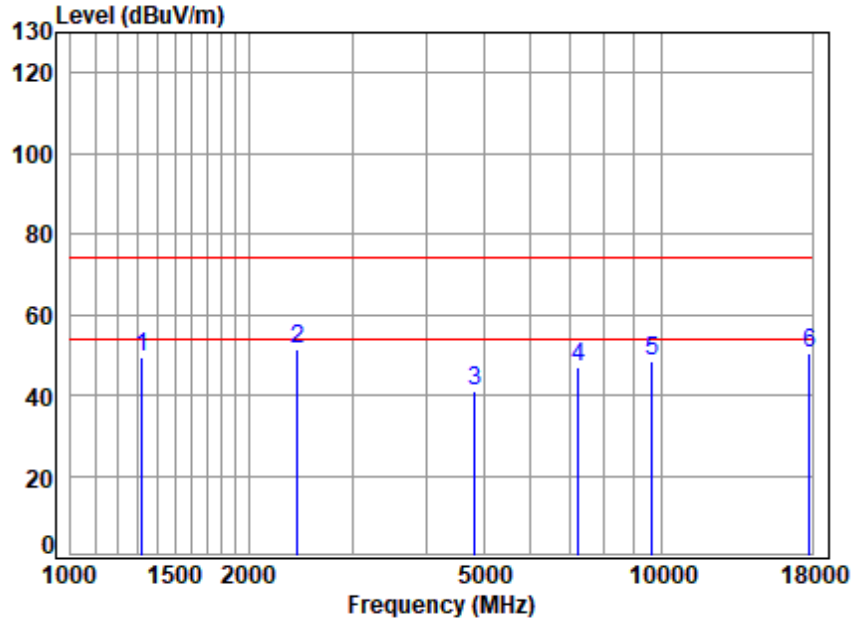
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 146 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00304AT
 Mode : 2412 TX RSE
 Note : 2.4G WIFI 11AX20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.7940	3.41	24.24	52.74	74.34	49.25	74.00	-24.75	peak
2	2421.6610	5.08	27.23	53.10	72.03	51.24	74.00	-22.76	Peak
3	4824.0000	8.02	30.99	53.05	55.27	41.23	74.00	-32.77	peak
4	7236.0000	8.31	36.09	53.52	56.07	46.95	74.00	-27.05	peak
5	9648.0000	11.38	37.62	53.54	53.00	48.46	74.00	-25.54	peak
6	17844.590	14.70	46.10	52.09	41.91	50.62	74.00	-23.38	Peak



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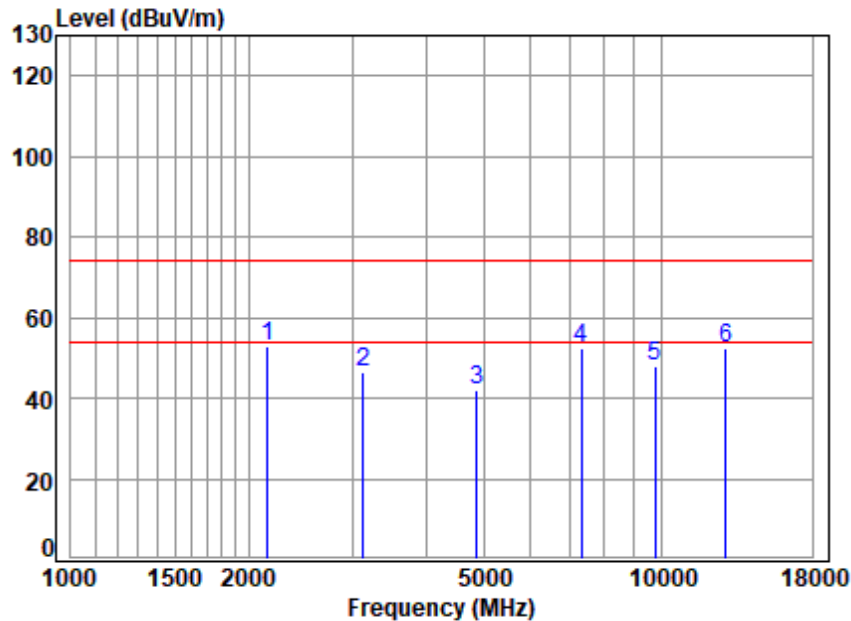
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 147 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2437 TX RSE

Note : 2.4G WIFI 11AX20

	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 2157.2600	4.88	26.61	53.10	74.64	53.03	74.00	-20.97 Peak
2 3123.0390	6.05	28.63	53.06	64.98	46.60	74.00	-27.40 peak
3 4874.0000	8.10	31.11	53.07	55.79	41.93	74.00	-32.07 peak
4 7311.0000	8.34	36.18	53.53	61.50	52.49	74.00	-21.51 peak
5 9748.0000	11.30	37.84	53.44	52.49	48.19	74.00	-25.81 peak
6 12872.440	12.48	39.71	54.18	54.59	52.60	74.00	-21.40 Peak



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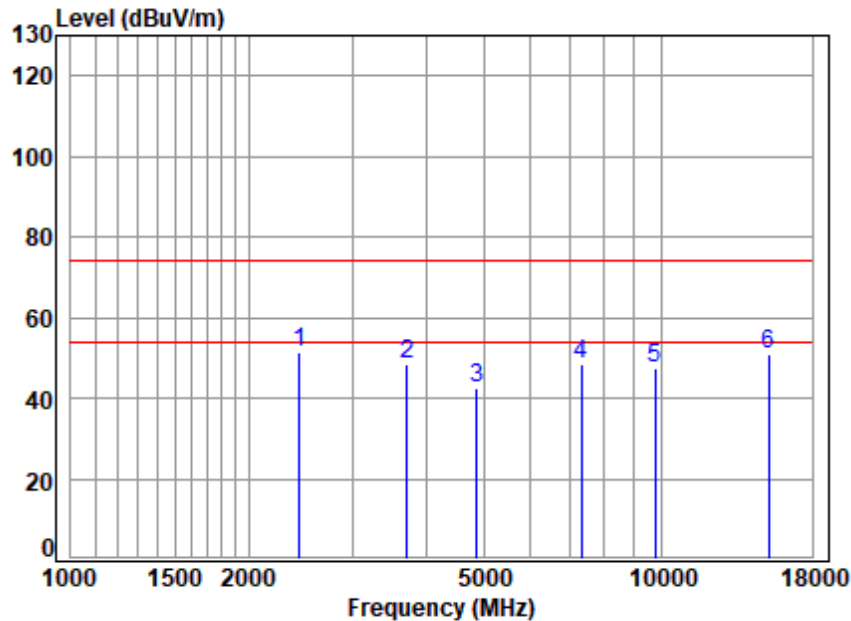
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 148 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2437 TX RSE

Note : 2.4G WIFI 11AX20

		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	2435.7010	5.09	27.26	53.10	72.26	51.51	74.00	-22.49	Peak
2	3714.4430	7.21	29.06	52.88	65.00	48.39	74.00	-25.61	peak
3	4874.0000	8.10	31.11	53.07	56.57	42.71	74.00	-31.29	peak
4	7311.0000	8.34	36.18	53.53	57.63	48.62	74.00	-25.38	peak
5	9748.0000	11.30	37.84	53.44	51.91	47.61	74.00	-26.39	peak
6	15221.820	12.88	40.83	53.59	50.84	50.96	74.00	-23.04	Peak



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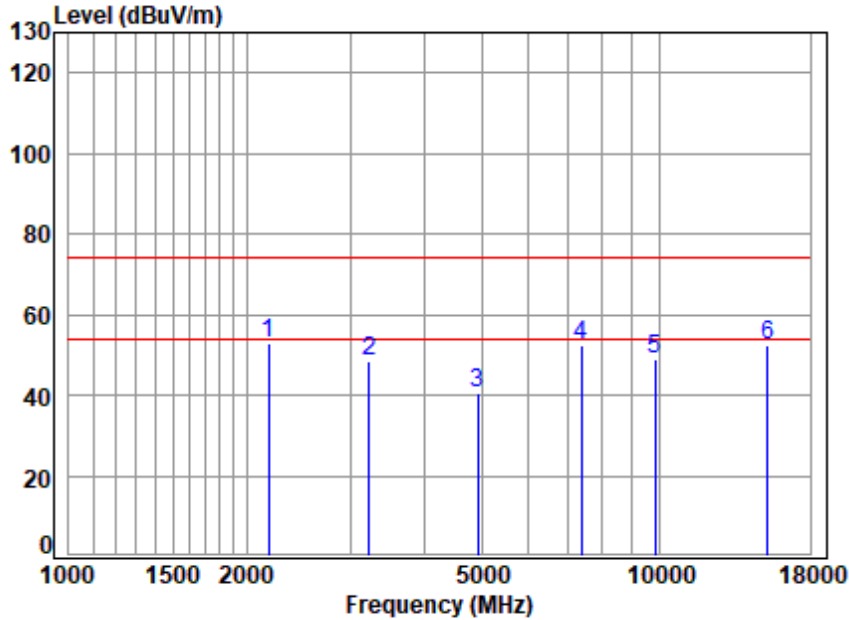
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 149 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2462 TX RSE

Note : 2.4G WIFI 11AX20

		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	2176.0470	4.89	26.65	53.10	74.32	52.76	74.00	-21.24 Peak
2	3223.9280	6.31	28.65	53.02	66.56	48.50	74.00	-25.50 peak
3	4924.0000	8.18	31.23	53.08	54.27	40.60	74.00	-33.40 peak
4	7386.0000	8.38	36.27	53.54	61.36	52.47	74.00	-21.53 peak
5	9848.0000	11.23	38.07	53.35	53.02	48.97	74.00	-25.03 peak
6	15265.880	12.97	40.67	53.56	52.36	52.44	74.00	-21.56 Peak



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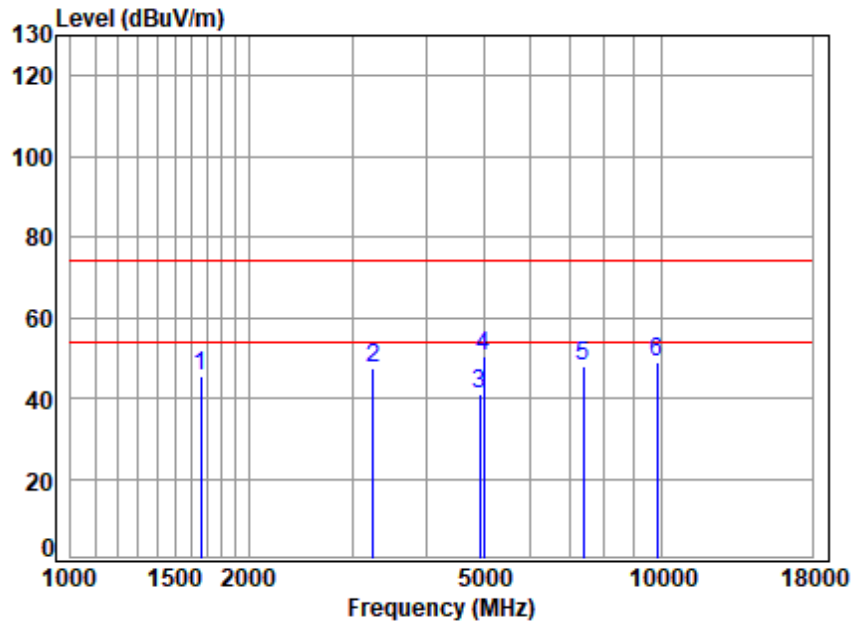
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 150 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2462 TX RSE
Note : 2.4G WIFI 11AX20

		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	1663.1370	4.12	24.93	52.94	69.41	45.52	74.00	-28.48	peak
2	3252.0050	6.38	28.65	53.02	65.57	47.58	74.00	-26.42	peak
3	4924.0000	8.18	31.23	53.08	54.89	41.22	74.00	-32.78	peak
4	5002.4970	8.30	31.41	53.10	63.84	50.45	74.00	-23.55	peak
5	7386.0000	8.38	36.27	53.54	56.93	48.04	74.00	-25.96	peak
6	9848.0000	11.23	38.07	53.35	52.87	48.82	74.00	-25.18	peak



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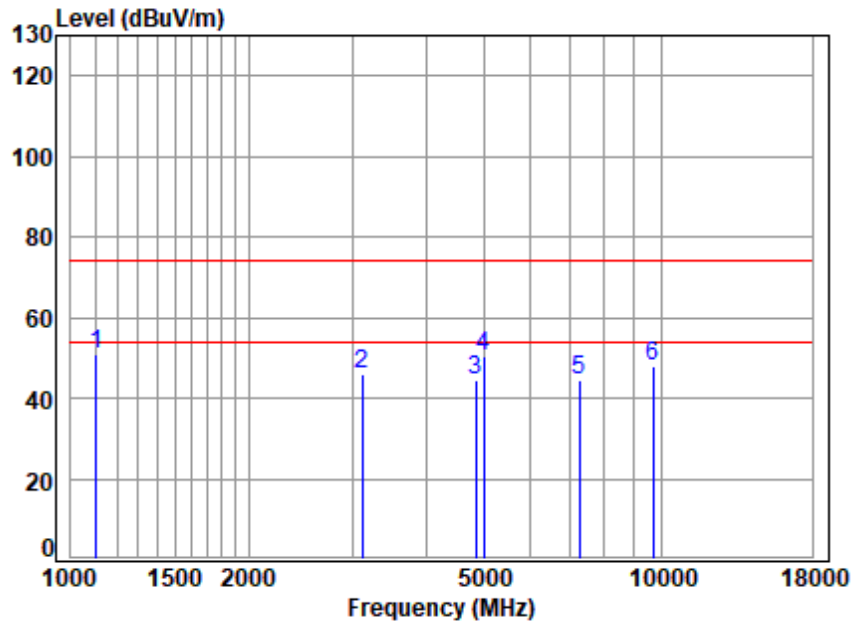
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 151 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2422 TX RSE

Note : 2.4G WIFI 11AX40

		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	1106.4570	2.92	24.21	52.59	76.52	51.06	74.00	-22.94	peak
2	3114.0250	6.03	28.62	53.06	64.46	46.05	74.00	-27.95	peak
3	4844.0000	8.05	31.04	53.06	58.45	44.48	74.00	-29.52	peak
4	5002.4970	8.30	31.41	53.10	63.68	50.29	74.00	-23.71	peak
5	7266.0000	8.32	36.12	53.53	53.65	44.56	74.00	-29.44	peak
6	9688.0000	11.35	37.71	53.50	52.51	48.07	74.00	-25.93	peak



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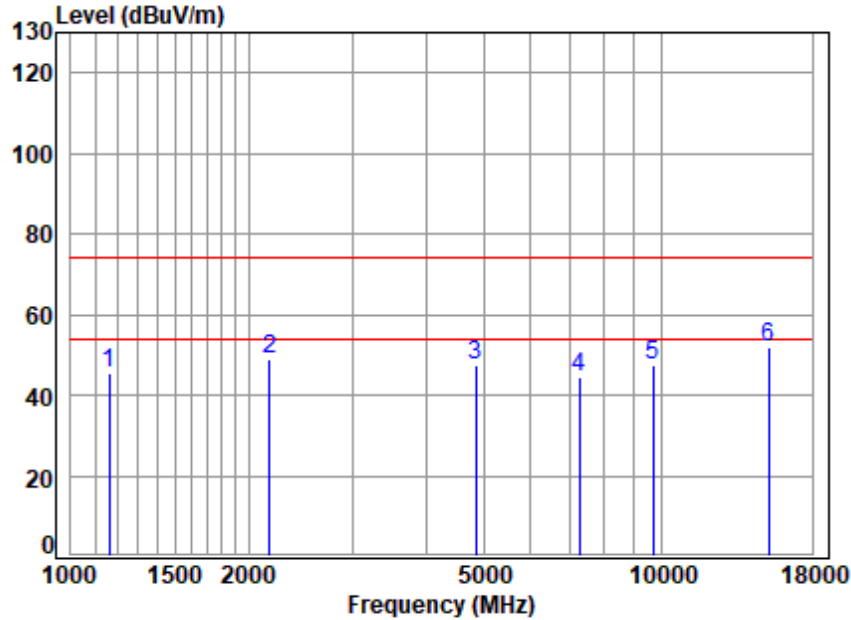
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220800030401

Page: 152 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00304AT
 Mode : 2422 TX RSE
 Note : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.1820	3.06	24.26	52.63	70.67	45.36	74.00	-28.64	peak
2	2169.7670	4.89	26.64	53.10	70.49	48.92	74.00	-25.08	Peak
3	4844.0000	8.05	31.04	53.06	61.44	47.47	74.00	-26.53	peak
4	7266.0000	8.32	36.12	53.53	53.41	44.32	74.00	-29.68	peak
5	9688.0000	11.35	37.71	53.50	52.02	47.58	74.00	-26.42	peak
6	15221.820	12.88	40.83	53.59	51.59	51.71	74.00	-22.29	Peak



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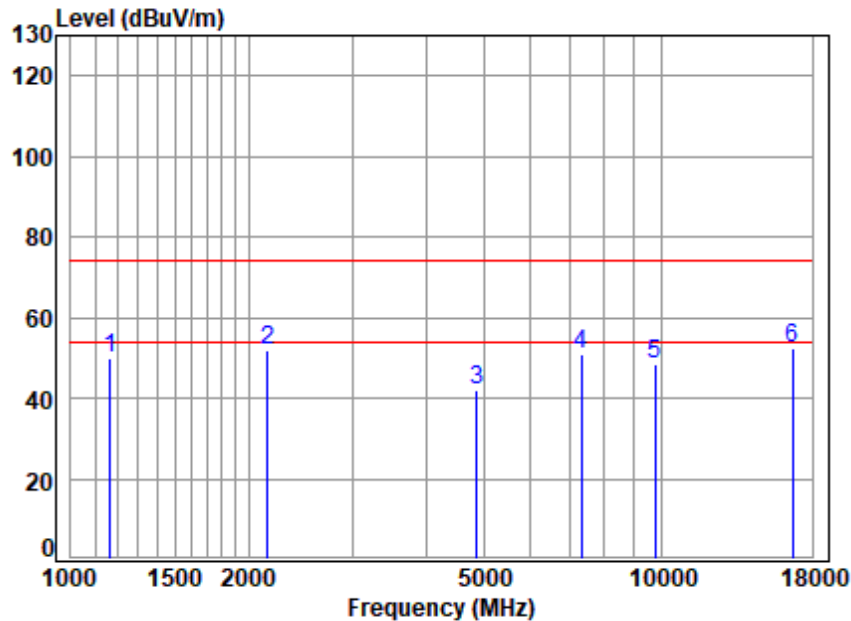
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 153 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2437 TX RSE

Note : 2.4G WIFI 11AX40

		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	1165.5460	3.07	24.27	52.63	75.39	50.10	74.00	-23.90	peak
2	2157.2600	4.88	26.61	53.10	73.62	52.01	74.00	-21.99	Peak
3	4874.0000	8.10	31.11	53.07	55.85	41.99	74.00	-32.01	peak
4	7311.0000	8.34	36.18	53.53	59.99	50.98	74.00	-23.02	peak
5	9748.0000	11.30	37.84	53.44	52.96	48.66	74.00	-25.34	peak
6	16696.880	14.54	40.59	52.78	50.17	52.52	74.00	-21.48	Peak



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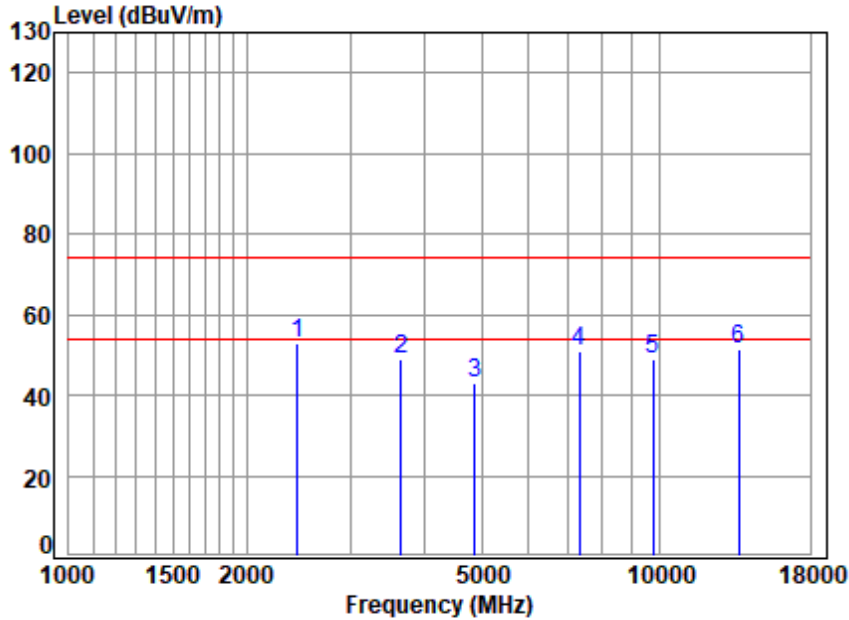
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 154 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00304AT
Mode : 2437 TX RSE
Note : 2.4G WIFI 11AX40

	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 2435.7010	5.09	27.26	53.10	73.74	52.99	74.00	-21.01 Peak
2 3650.5820	7.15	28.95	52.90	65.94	49.14	74.00	-24.86 peak
3 4874.0000	8.10	31.11	53.07	56.69	42.83	74.00	-31.17 peak
4 7311.0000	8.34	36.18	53.53	59.71	50.70	74.00	-23.30 peak
5 9748.0000	11.30	37.84	53.44	53.09	48.79	74.00	-25.21 peak
6 13638.490	11.92	40.86	53.94	52.40	51.24	74.00	-22.76 Peak



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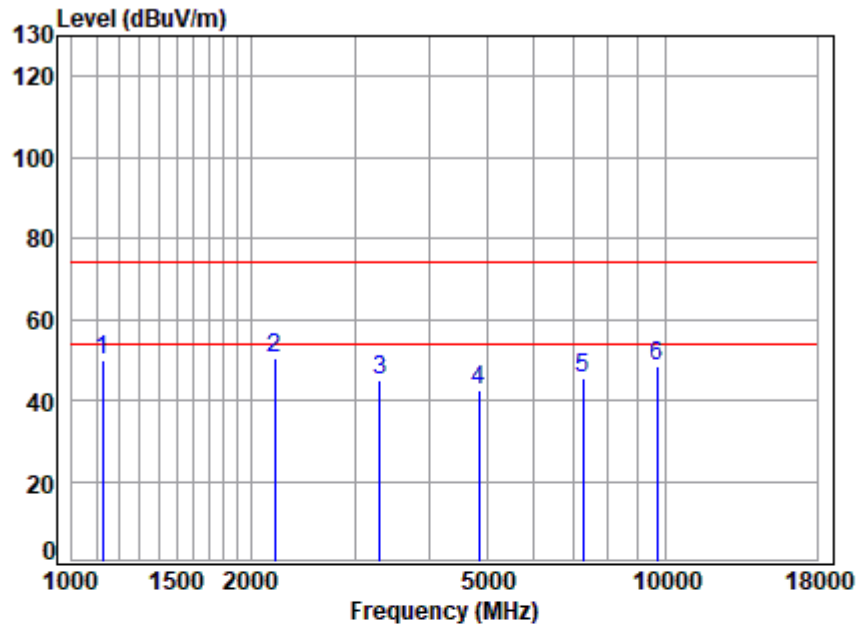
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 155 of 291

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00304AT

Mode : 2452 TX RSE

Note : 2.4G WIFI 11AX40

		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	1125.8130	2.97	24.23	52.60	75.18	49.78	74.00	-24.22	peak
2	2194.9980	4.91	26.70	53.10	71.80	50.31	74.00	-23.69	Peak
3	3299.3440	6.50	28.66	53.00	62.97	45.13	74.00	-28.87	peak
4	4844.0000	8.05	31.04	53.06	56.32	42.35	74.00	-31.65	peak
5	7266.0000	8.32	36.12	53.53	54.41	45.32	74.00	-28.68	peak
6	9688.0000	11.35	37.71	53.50	52.63	48.19	74.00	-25.81	peak



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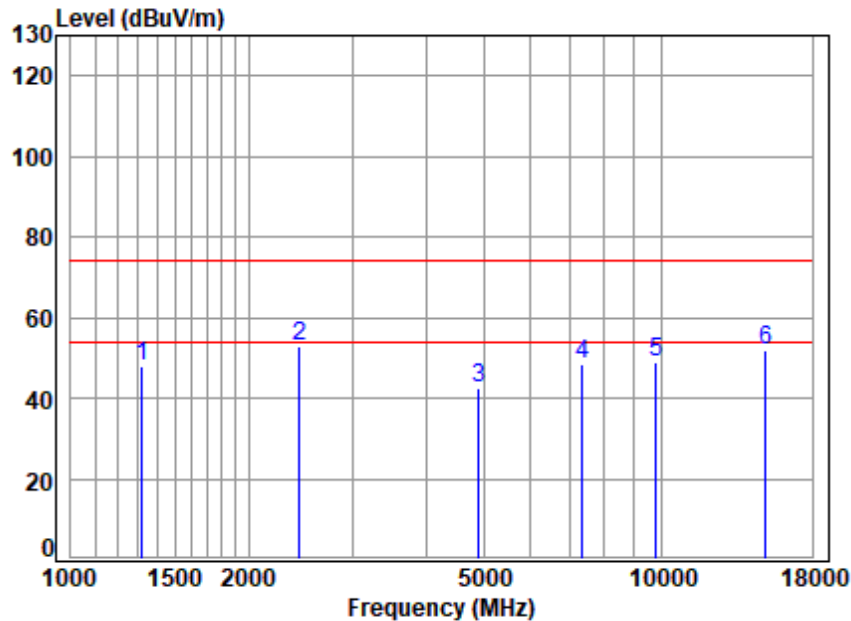
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 156 of 291

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2452 TX RSE

Note : 2.4G WIFI 11AX40

		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	1319.7940	3.41	24.24	52.74	73.14	48.05	74.00	-25.95	peak
2	2435.7010	5.09	27.26	53.10	73.67	52.92	74.00	-21.08	Peak
3	4904.0000	8.15	31.18	53.07	56.27	42.53	74.00	-31.47	peak
4	7356.0000	8.36	36.23	53.54	57.62	48.67	74.00	-25.33	peak
5	9808.0000	11.26	37.98	53.38	53.06	48.92	74.00	-25.08	peak
6	15003.420	12.39	41.59	53.70	51.66	51.94	74.00	-22.06	Peak



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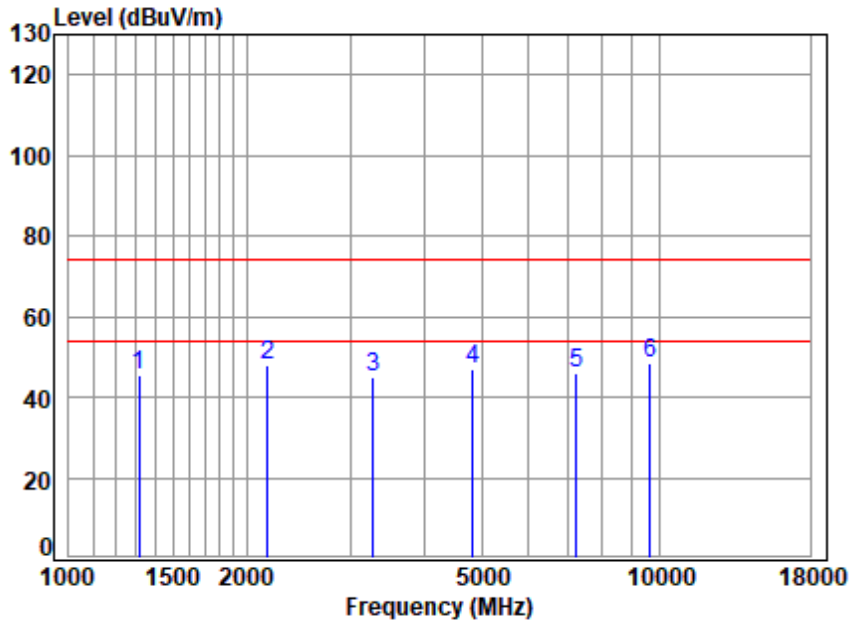
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 157 of 291

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00304AT
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.9850	3.41	24.24	52.74	70.33	45.24	74.00	-28.76	peak
2	2169.7670	4.89	26.64	53.10	69.70	48.13	74.00	-25.87	Peak
3	3270.8580	6.43	28.66	53.01	62.93	45.01	74.00	-28.99	peak
4	4824.0000	8.02	30.99	53.05	61.20	47.16	74.00	-26.84	peak
5	7236.0000	8.31	36.09	53.52	54.98	45.86	74.00	-28.14	peak
6	9648.0000	11.38	37.62	53.54	52.78	48.24	74.00	-25.76	peak



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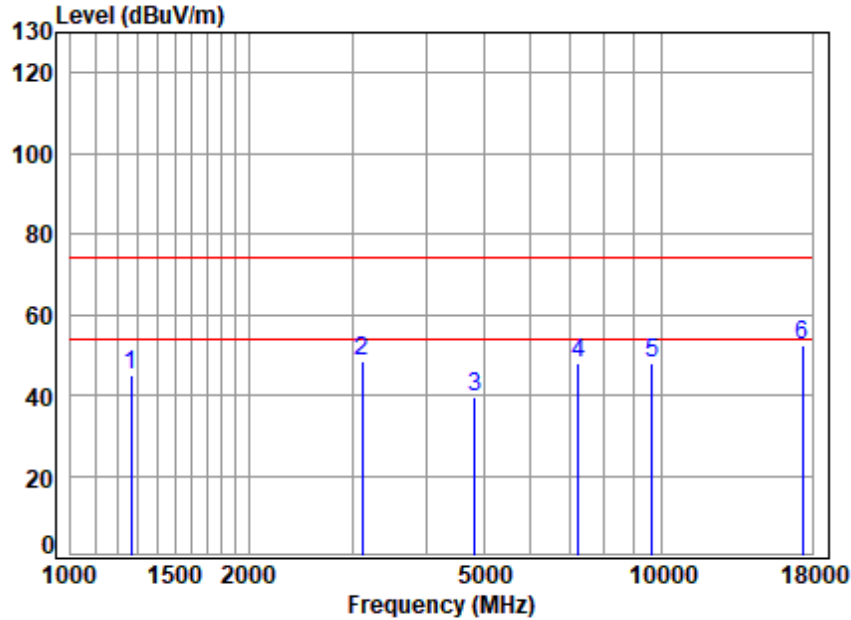
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 158 of 291

Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00304AT

Mode : 2412 TX RSE

Note : 2.4G 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	1267.4540	3.30	24.26	52.71	70.18	45.03	74.00	-28.97	peak
2	3114.0250	6.03	28.62	53.06	66.87	48.46	74.00	-25.54	peak
3	4824.0000	8.02	30.99	53.05	53.80	39.76	74.00	-34.24	peak
4	7236.0000	8.31	36.09	53.52	57.11	47.99	74.00	-26.01	peak
5	9648.0000	11.38	37.62	53.54	52.72	48.18	74.00	-25.82	peak
6	17336.200	14.43	43.42	52.39	46.80	52.26	74.00	-21.74	Peak



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8 Test Setup Photo

Refer to Appendix –SetupPhoto for FYCR2208000304AT



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for KSCR2207001267AT.



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10 Appendix

10.1 For Non-Beamforming:

10.1.1 Duty Cycle

10.1.1.1 Ant1

10.1.1.1.1 Test Result

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	MIMO	2412	/	/	8.417	8.474	99.33	0.03	0.00
		2437	/	/	8.417	8.474	99.33	0.03	0.00
		2462	/	/	8.417	8.474	99.33	0.03	0.00
802.11g	MIMO	2412	/	/	1.396	1.454	96.01	0.18	0.03
		2437	/	/	1.396	1.454	96.01	0.18	0.07
		2462	/	/	1.397	1.455	96.01	0.18	0.04
802.11n (HT20)	MIMO	2412	/	/	1.308	1.366	95.75	0.19	0.03
		2437	/	/	1.308	1.366	95.75	0.19	0.00
		2462	/	/	1.308	1.366	95.75	0.19	0.07
802.11n (HT40)	MIMO	2422	/	/	0.650	0.706	92.07	0.36	0.03
		2437	/	/	0.648	0.706	91.78	0.37	0.04
		2452	/	/	0.648	0.706	91.78	0.37	0.07
802.11ax (HEW20)	MIMO	2412	RU242	Left	0.316	0.374	84.49	0.73	0.07
		2437	RU242	Left	0.316	0.373	84.72	0.72	0.07
		2462	RU242	Left	0.316	0.373	84.72	0.72	0.04
802.11ax (HEW40)	MIMO	2422	RU484	Left	0.549	0.605	90.74	0.42	0.00
		2437	RU484	Left	0.548	0.605	90.58	0.43	0.03
		2452	RU484	Left	0.547	0.605	90.41	0.44	0.03



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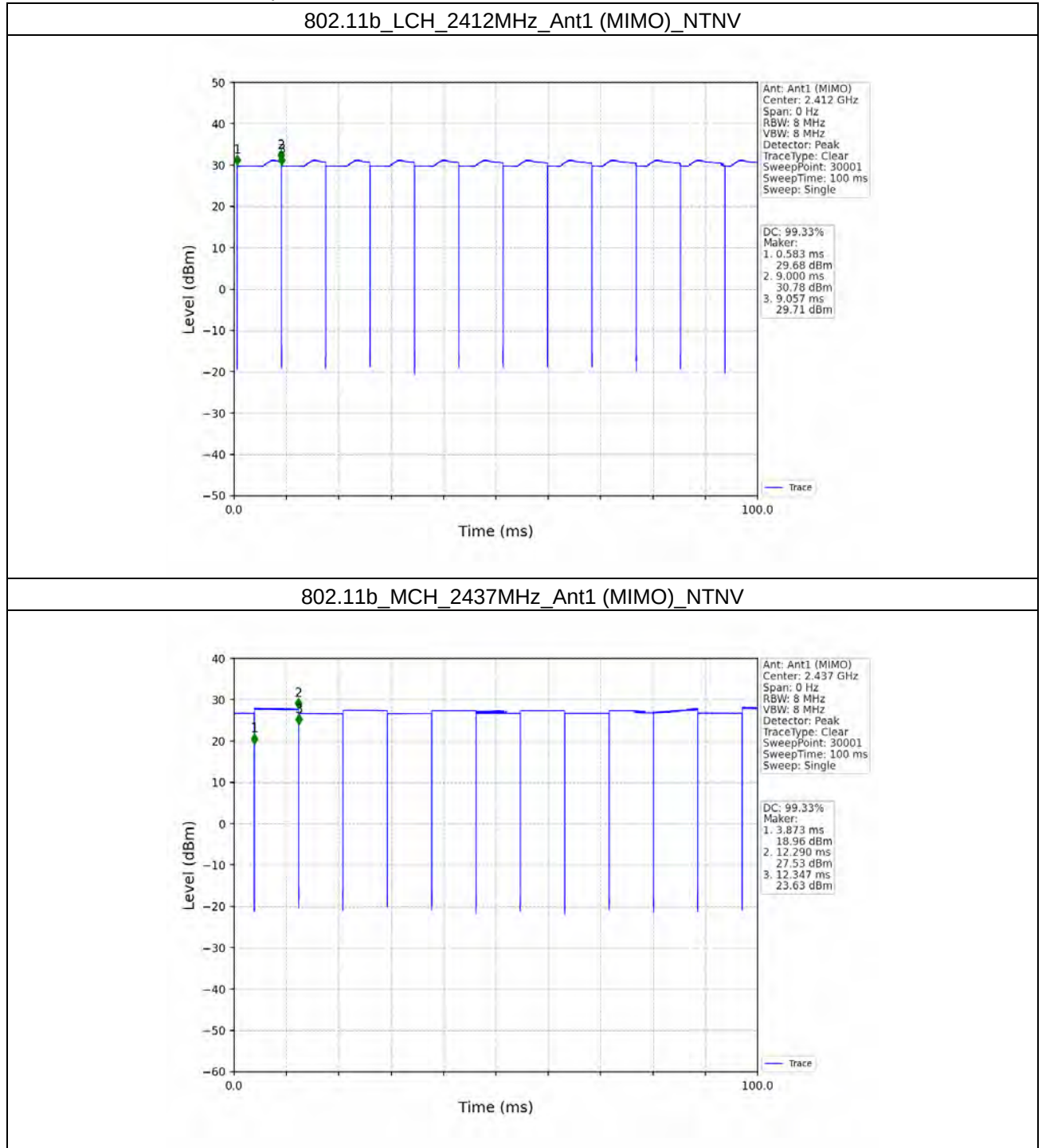
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800030401

Page: 162 of 291

10.1.1.1.2 Test Graph



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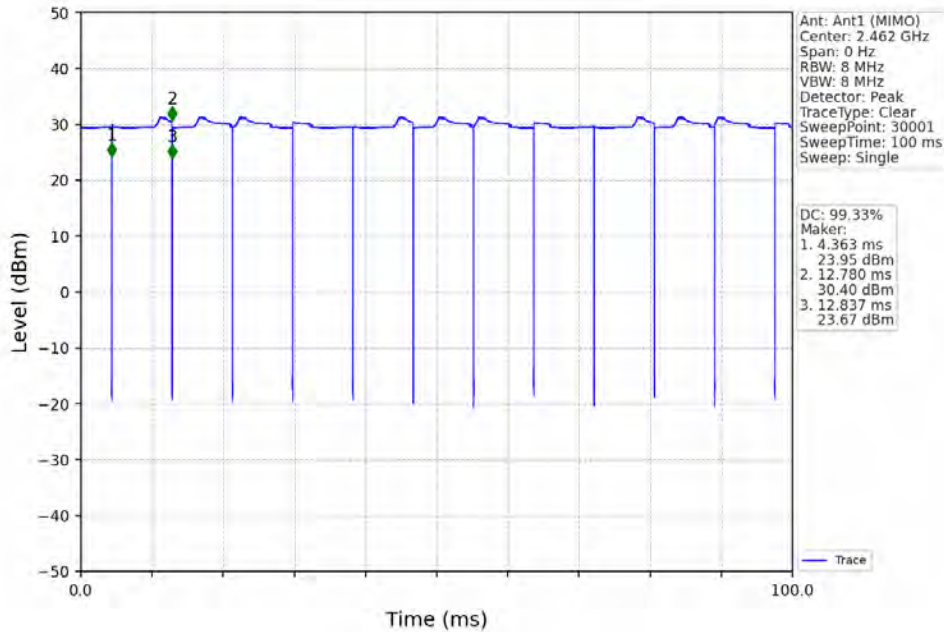
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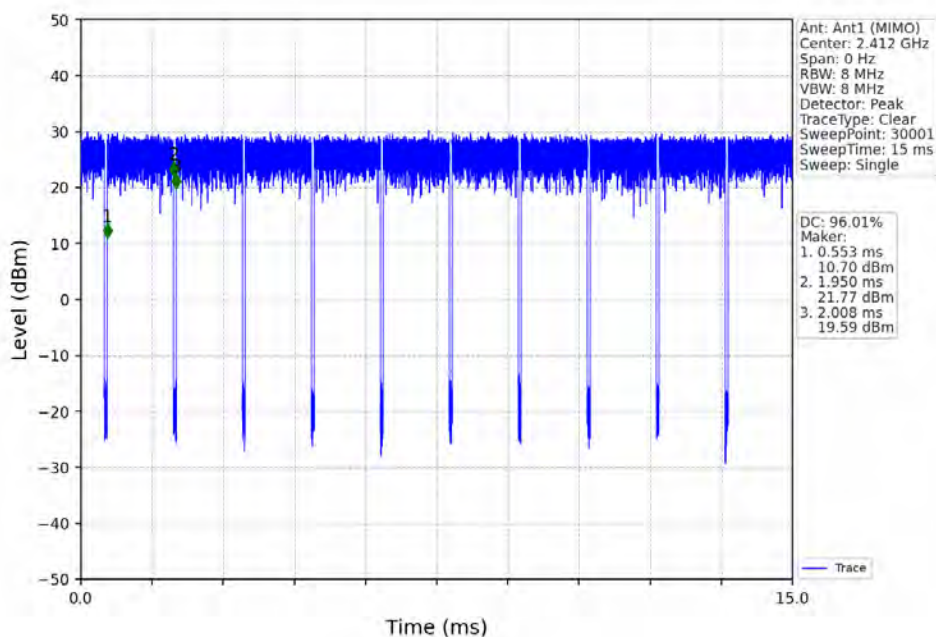
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Page: 163 of 291

802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



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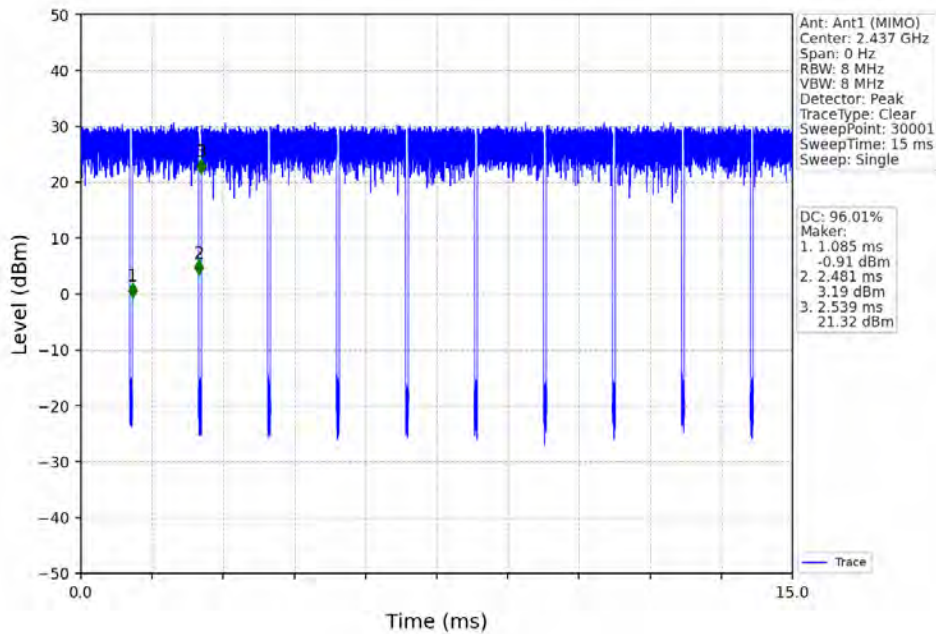
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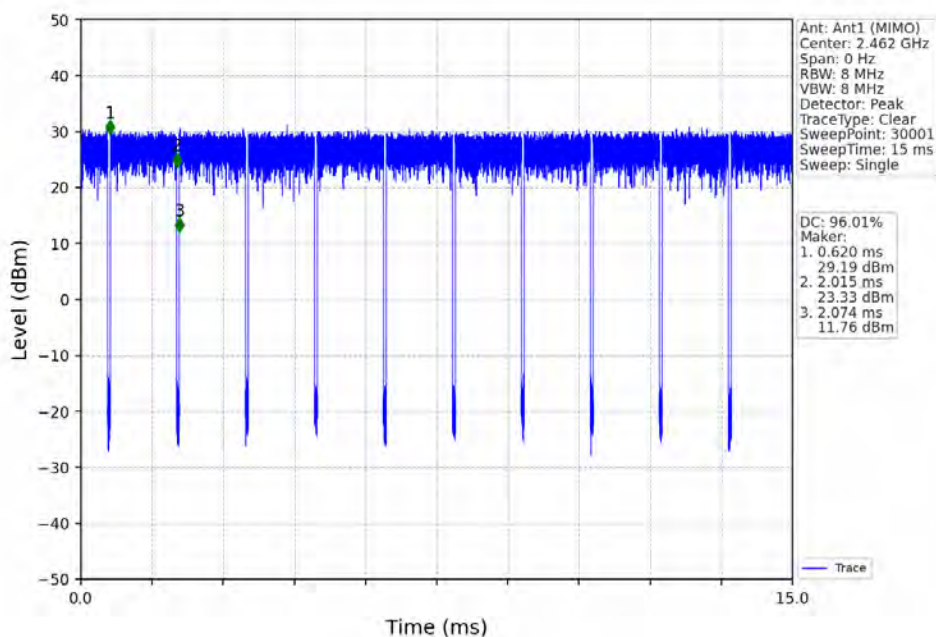
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Page: 164 of 291

802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



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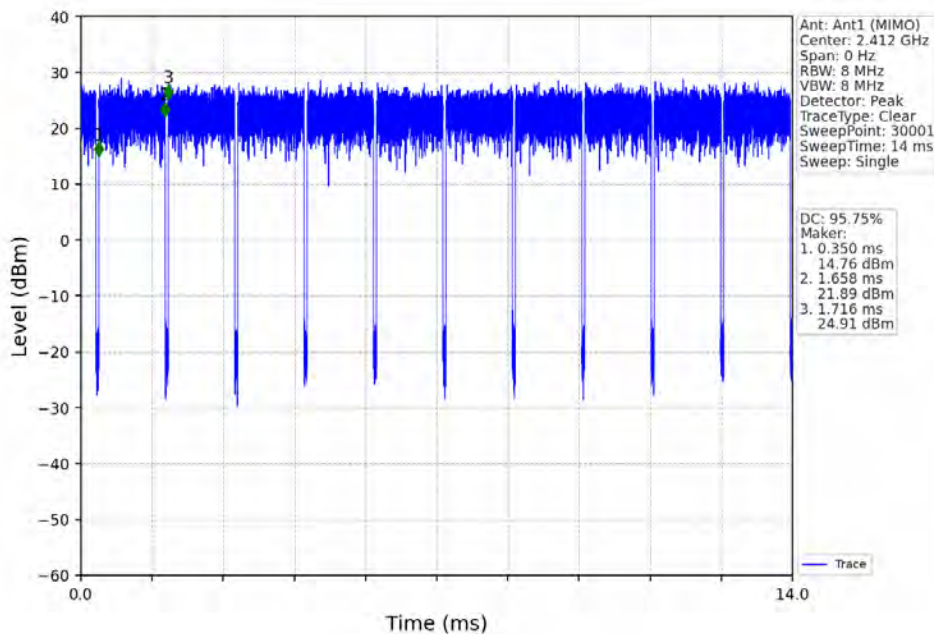
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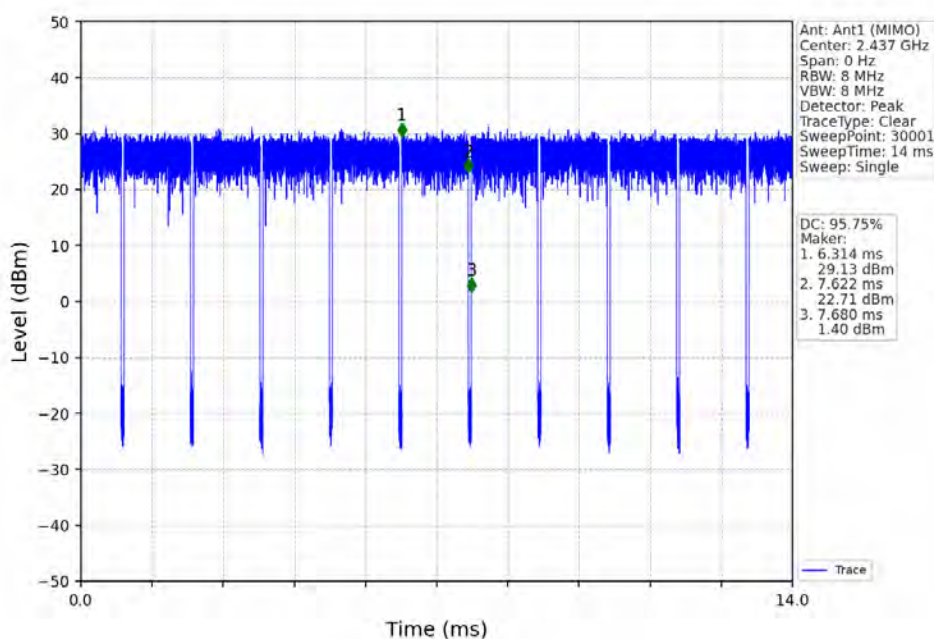
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Page: 165 of 291

802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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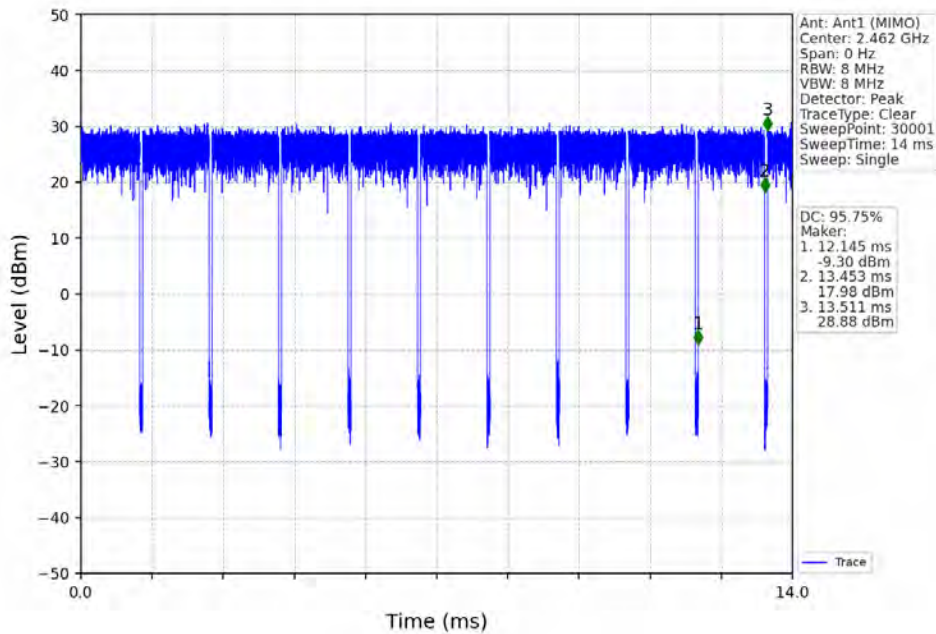
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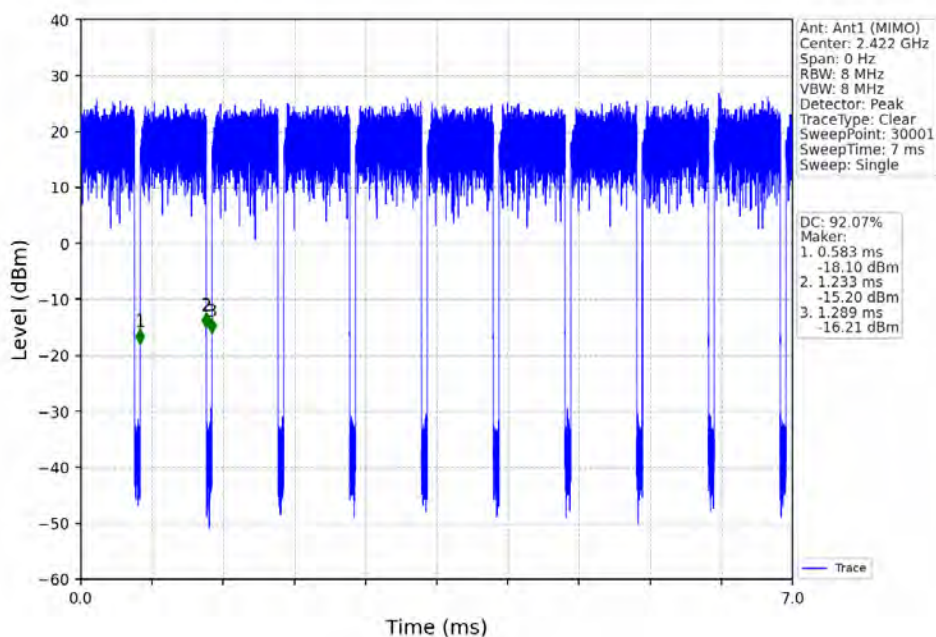
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Page: 166 of 291

802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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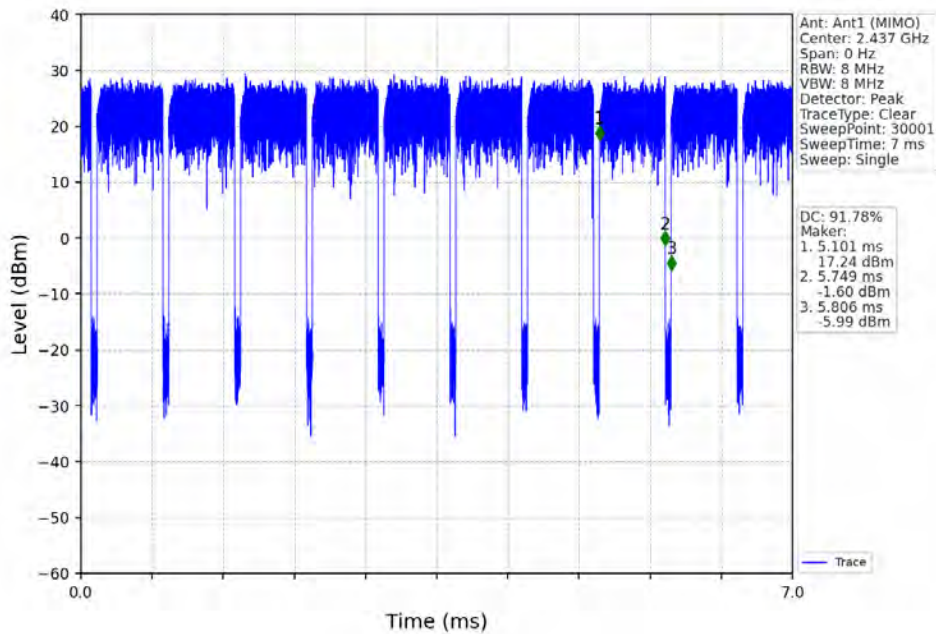
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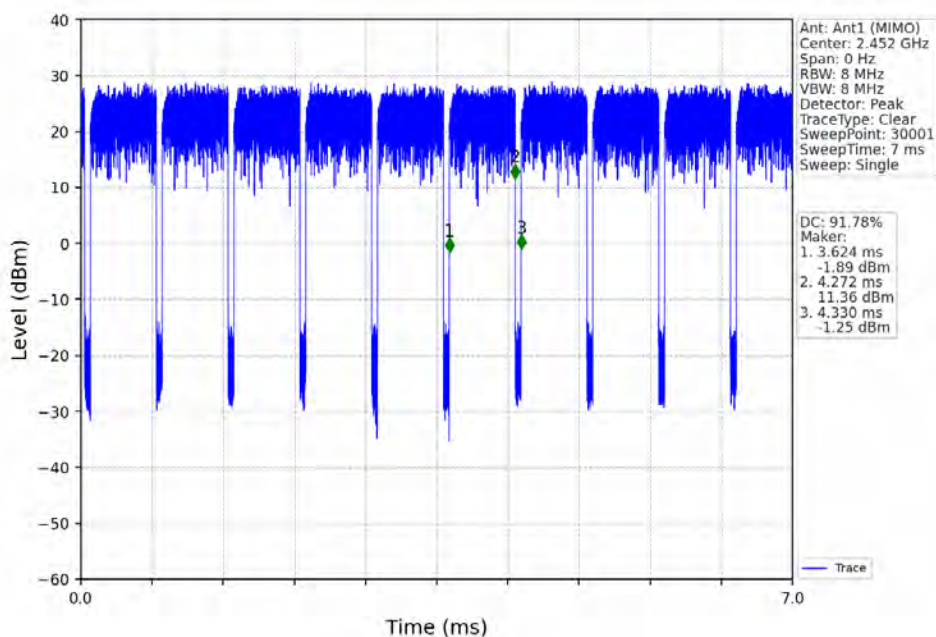
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Page: 167 of 291

802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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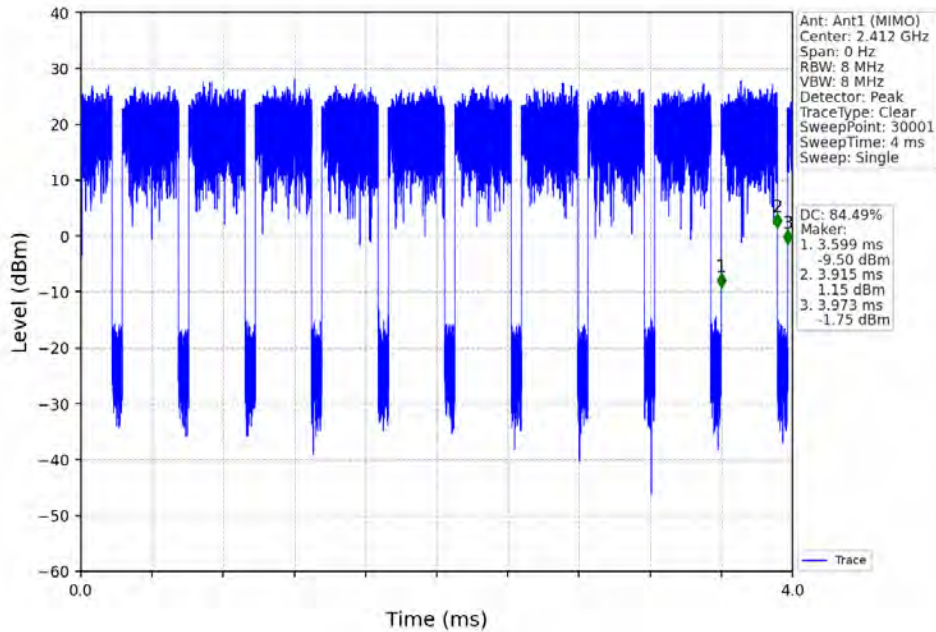
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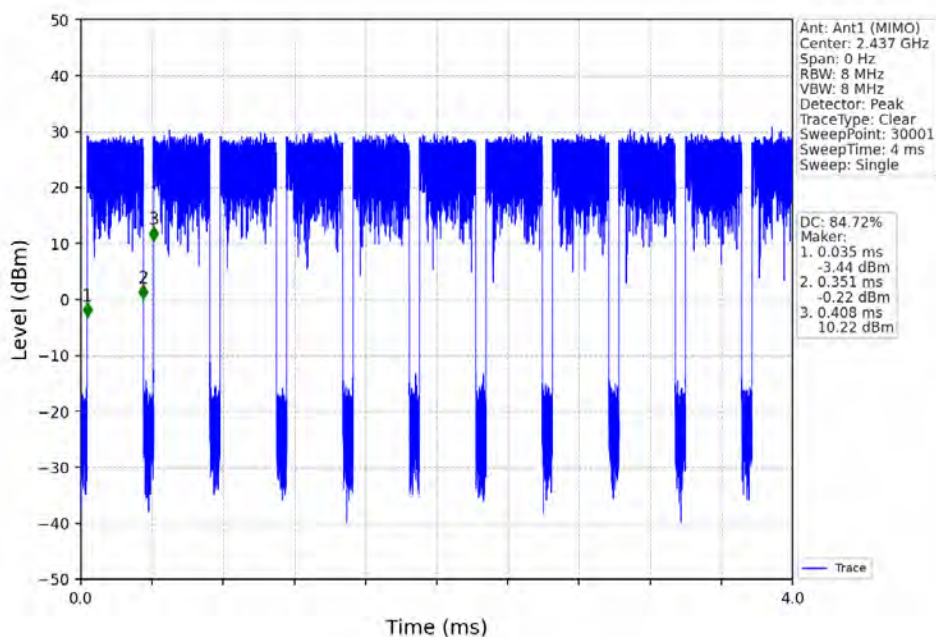
Report No.: FYCR220800030401

Page: 168 of 291

802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



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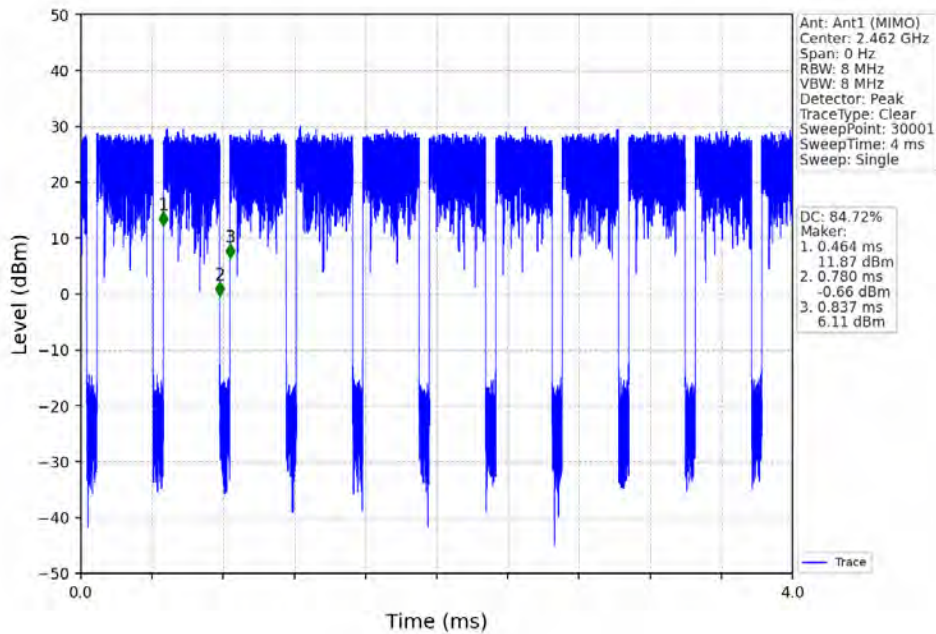
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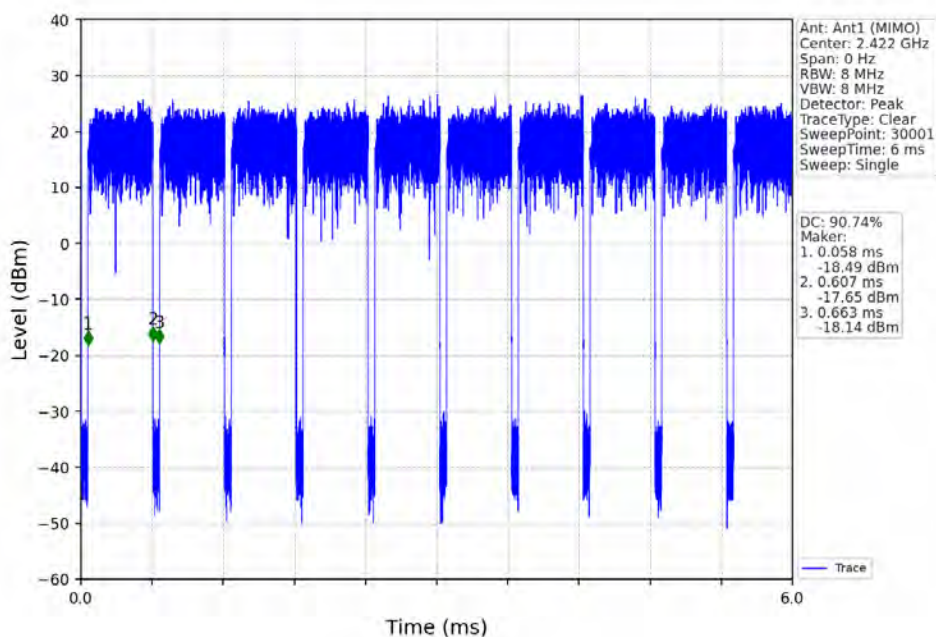
Report No.: FYCR220800030401

Page: 169 of 291

802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



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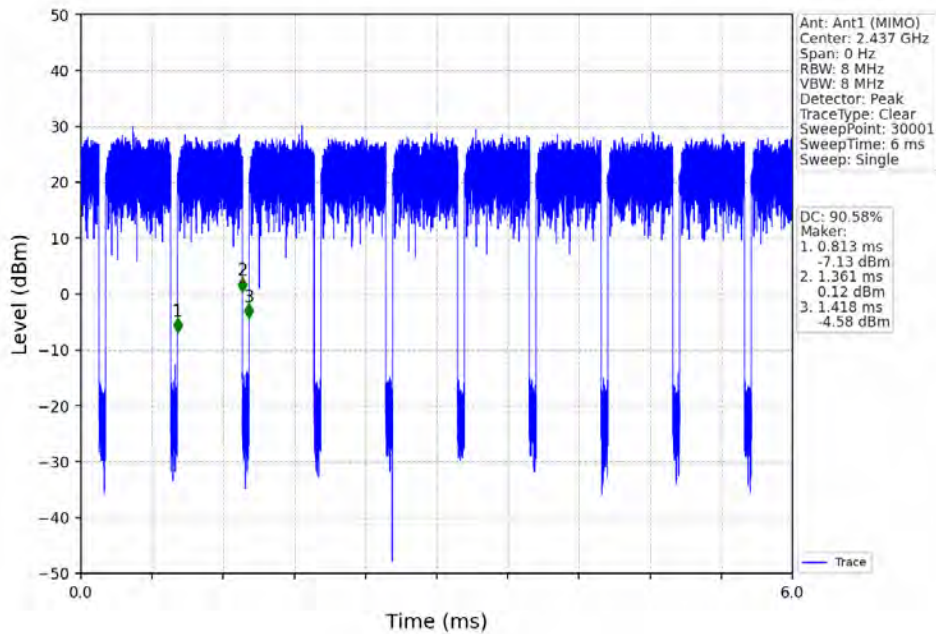
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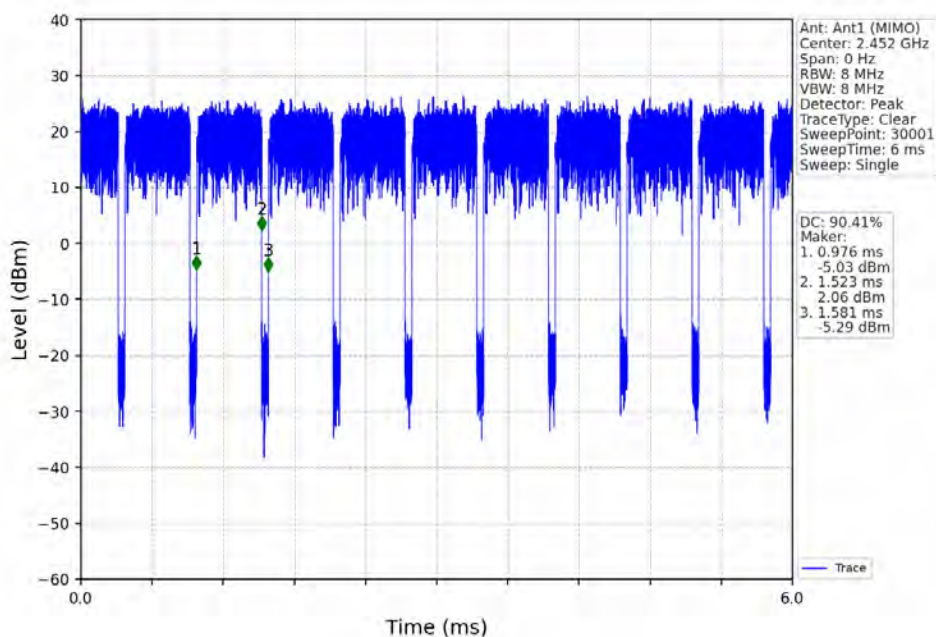
Report No.: FYCR220800030401

Page: 170 of 291

802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



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

Report No.: FYCR220800030401

Page: 171 of 291

10.1.2 Bandwidth

10.1.2.1 OBW

10.1.2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)	Verdict
						Result	
802.11b	MIMO	2412	/	/	1	13.230	Pass
		2437	/	/	1	14.302	Pass
		2462	/	/	1	12.810	Pass
802.11g	MIMO	2412	/	/	1	16.943	Pass
		2437	/	/	1	28.677	Pass
		2462	/	/	1	16.965	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.830	Pass
		2437	/	/	1	28.438	Pass
		2462	/	/	1	17.877	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.346	Pass
		2437	/	/	1	54.184	Pass
		2452	/	/	1	36.232	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	18.844	Pass
		2437	RU242	Left	1	28.835	Pass
		2462	RU242	Left	1	19.444	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	37.801	Pass
		2437	RU484	Left	1	59.465	Pass
		2452	RU484	Left	1	37.651	Pass



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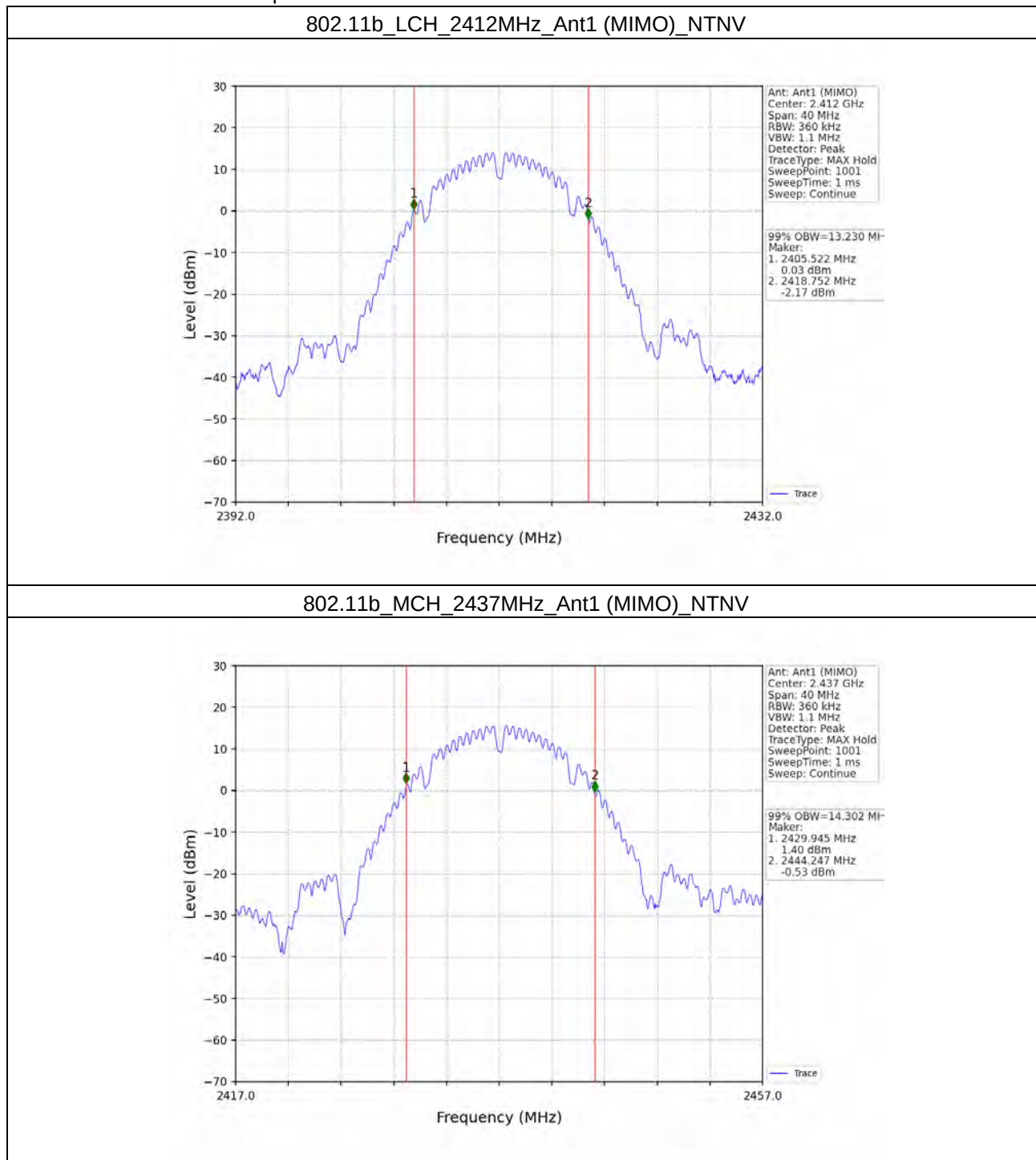
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Page: 172 of 291

10.1.2.1.1.1 Test Graph



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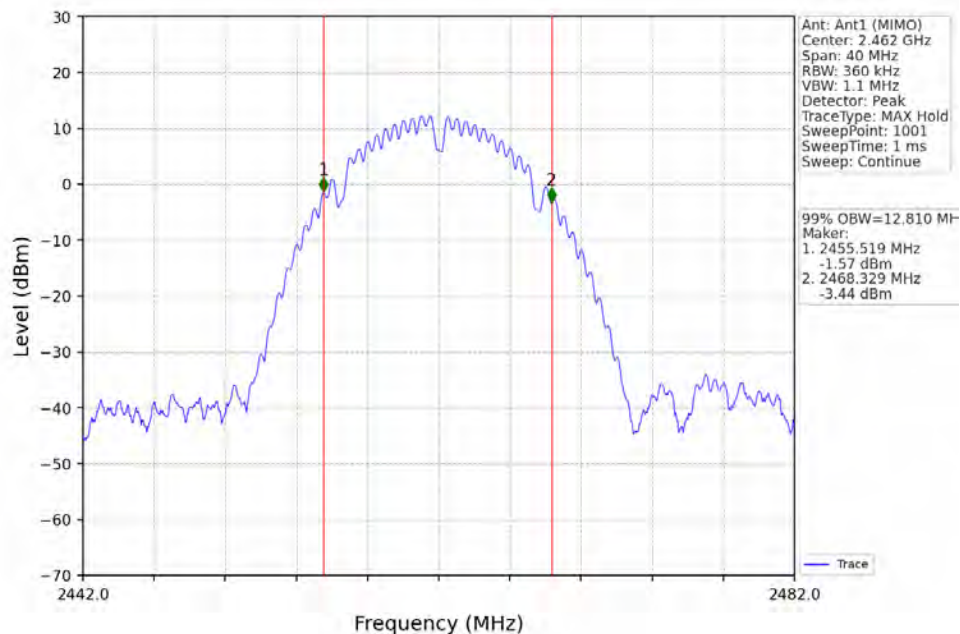
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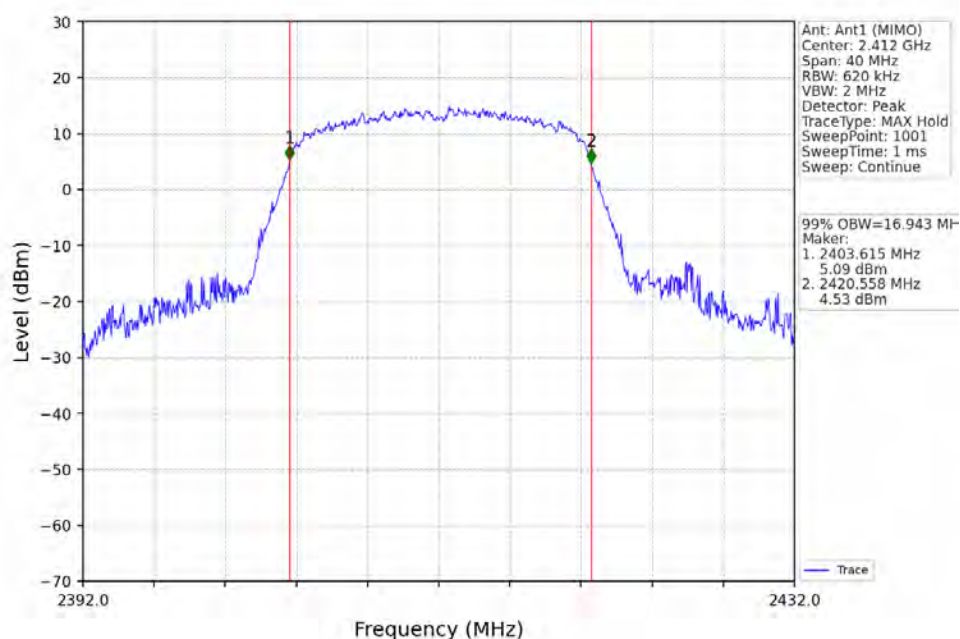
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Page: 173 of 291

802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



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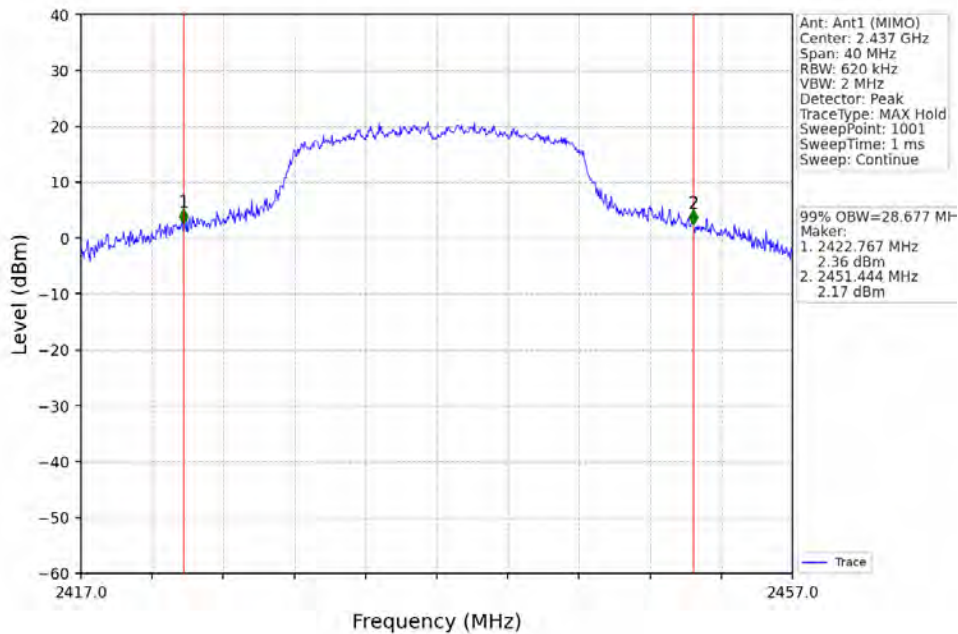
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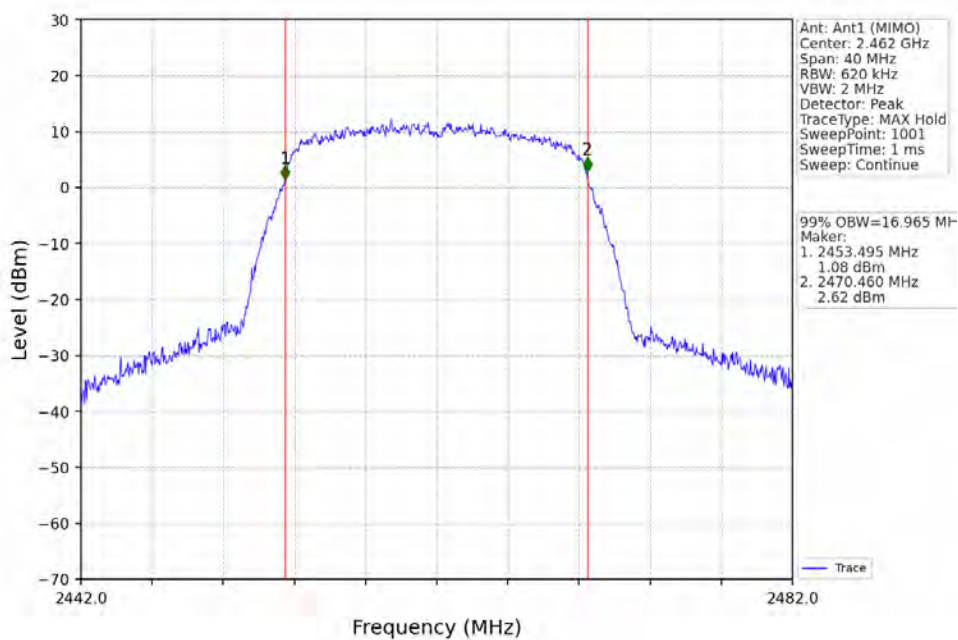
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Page: 174 of 291

802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



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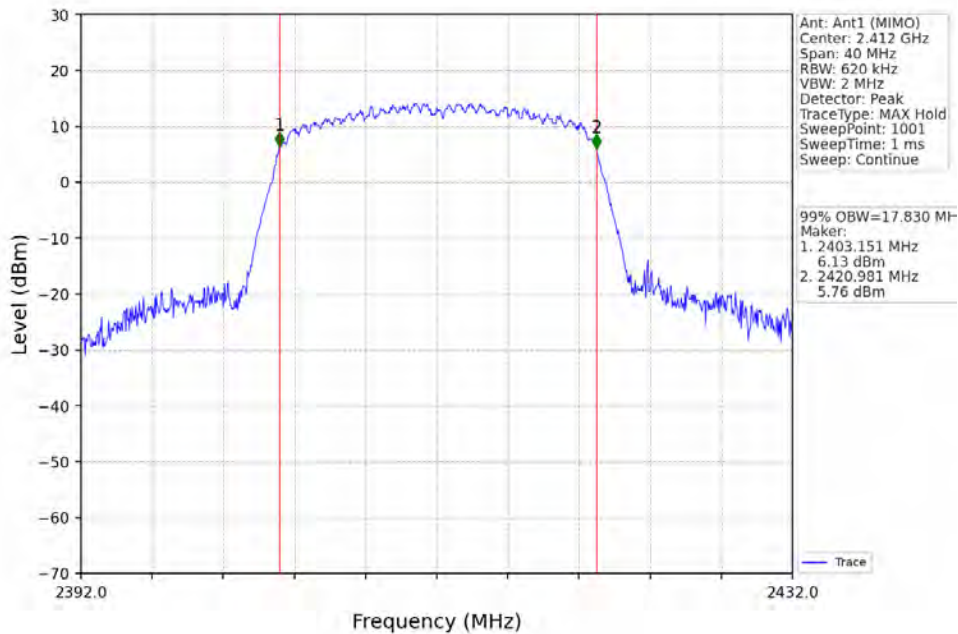
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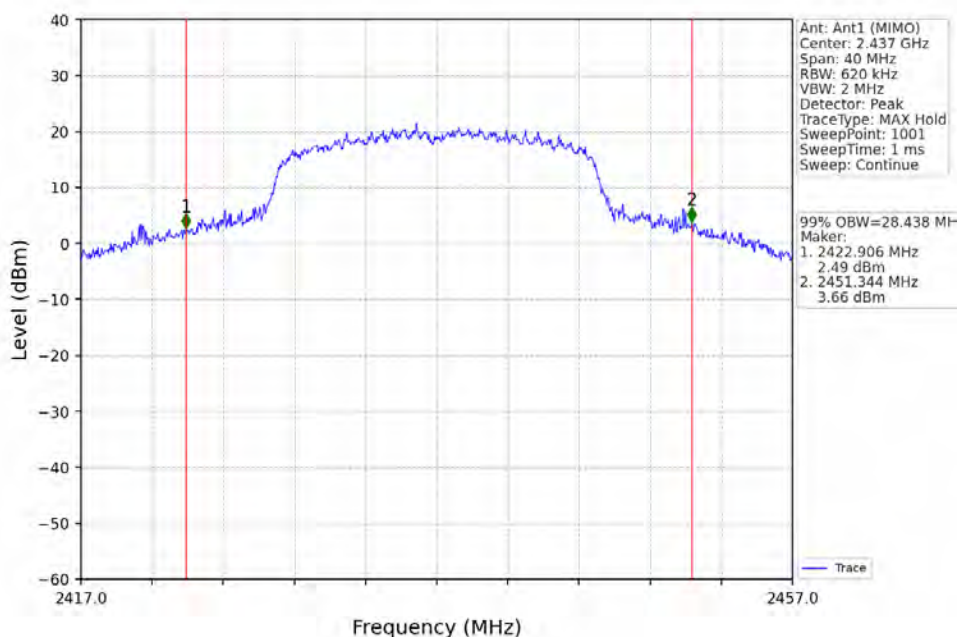
Report No.: FYCR220800030401

Page: 175 of 291

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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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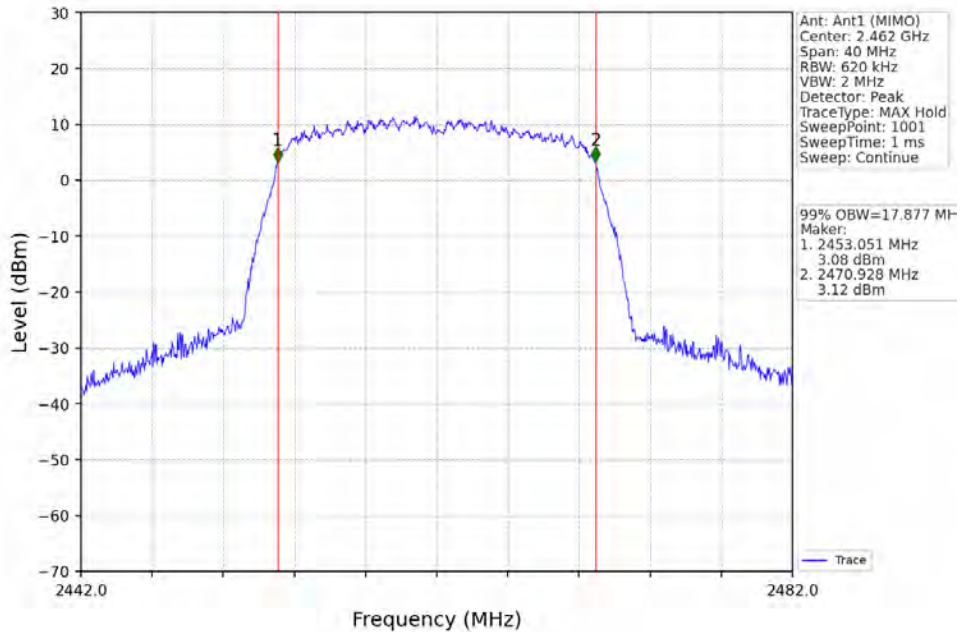
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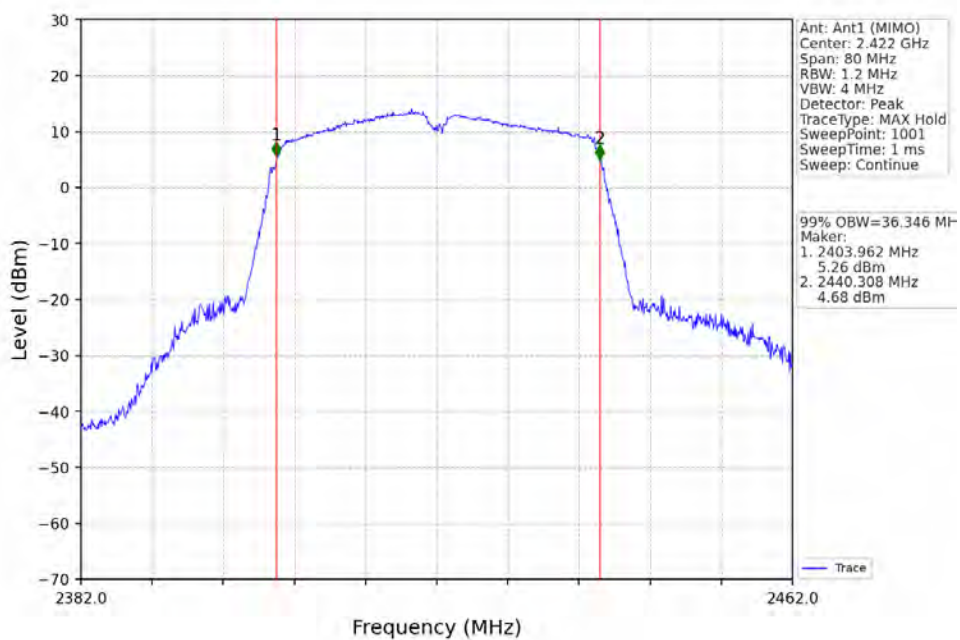
Report No.: FYCR220800030401

Page: 176 of 291

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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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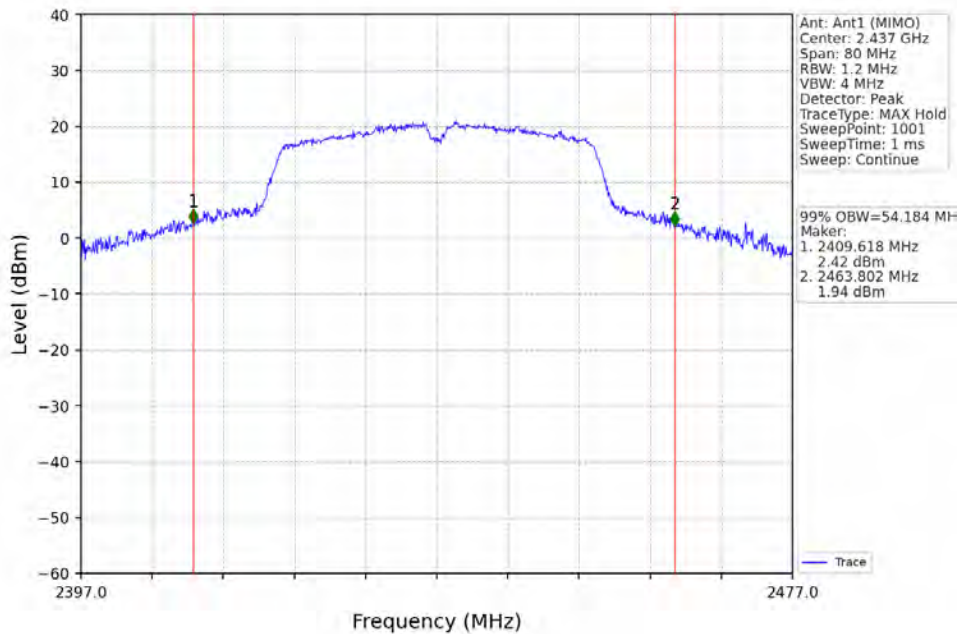
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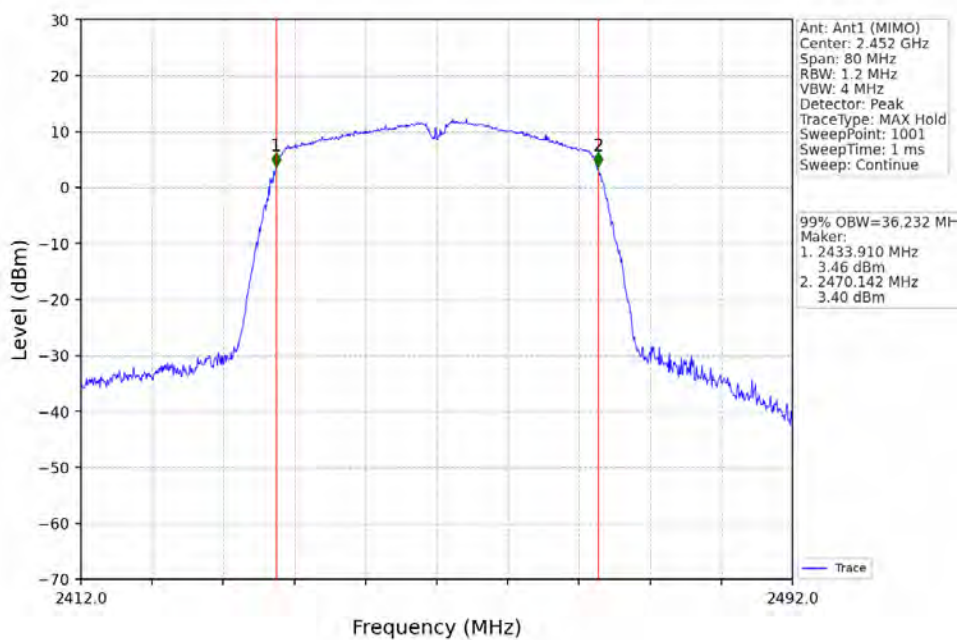
Report No.: FYCR220800030401

Page: 177 of 291

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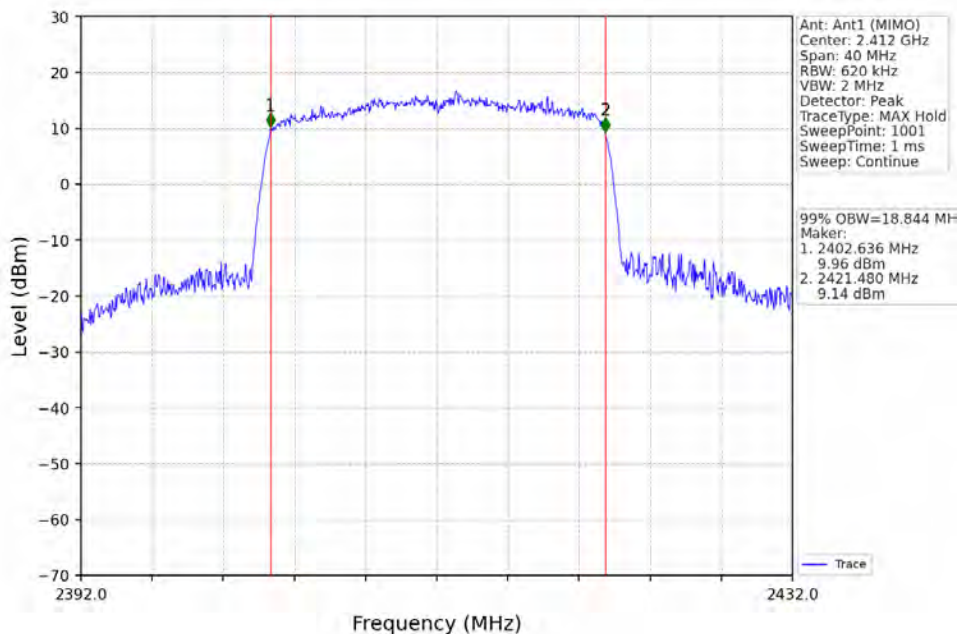
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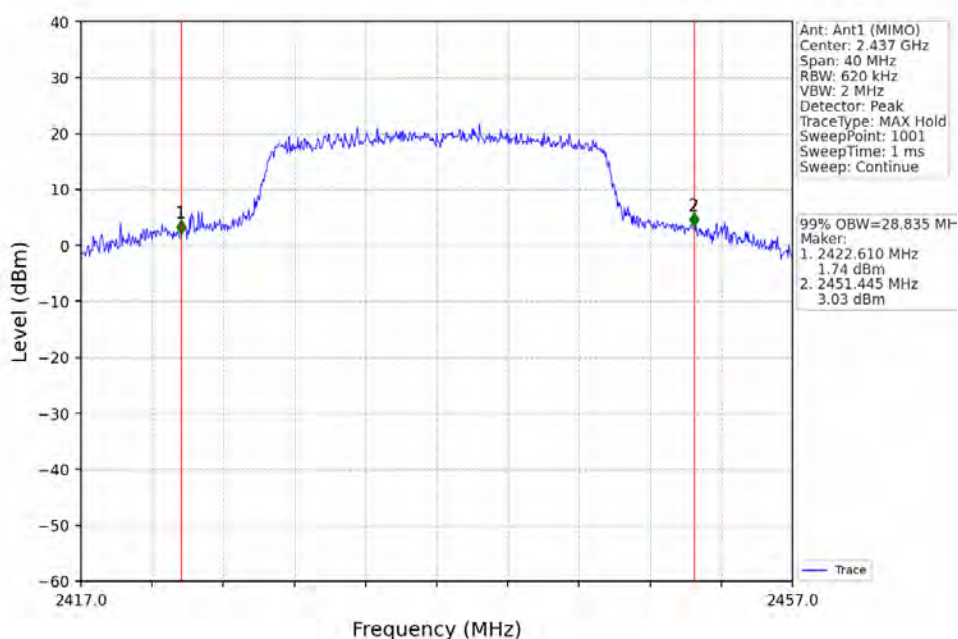
Report No.: FYCR220800030401

Page: 178 of 291

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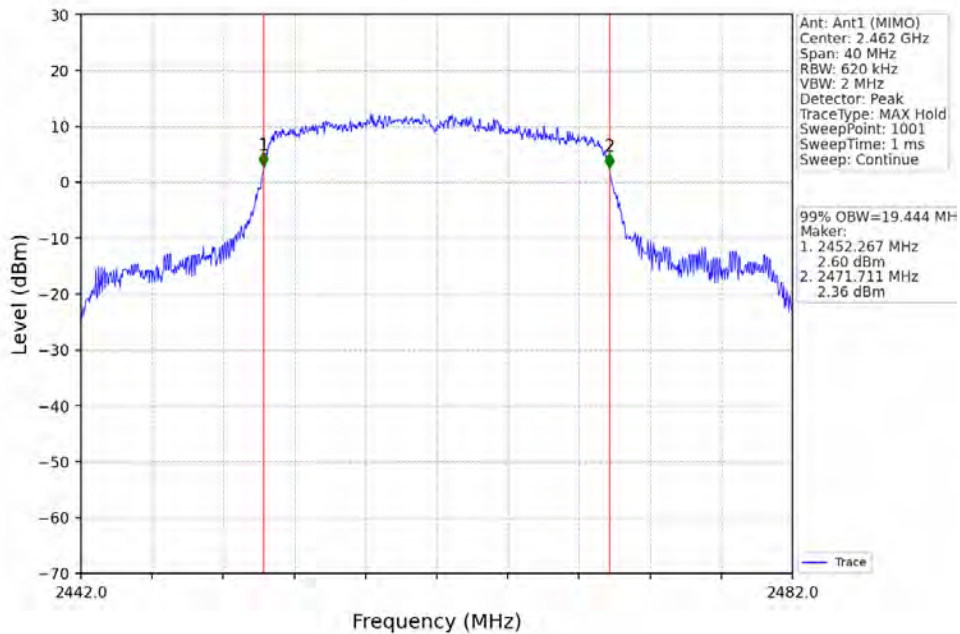
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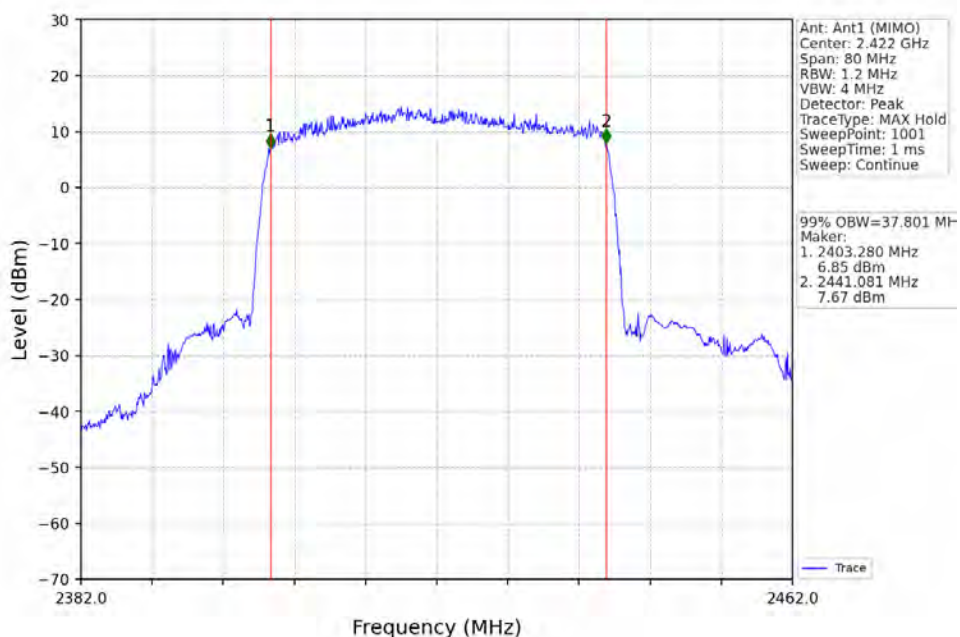
Report No.: FYCR220800030401

Page: 179 of 291

802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



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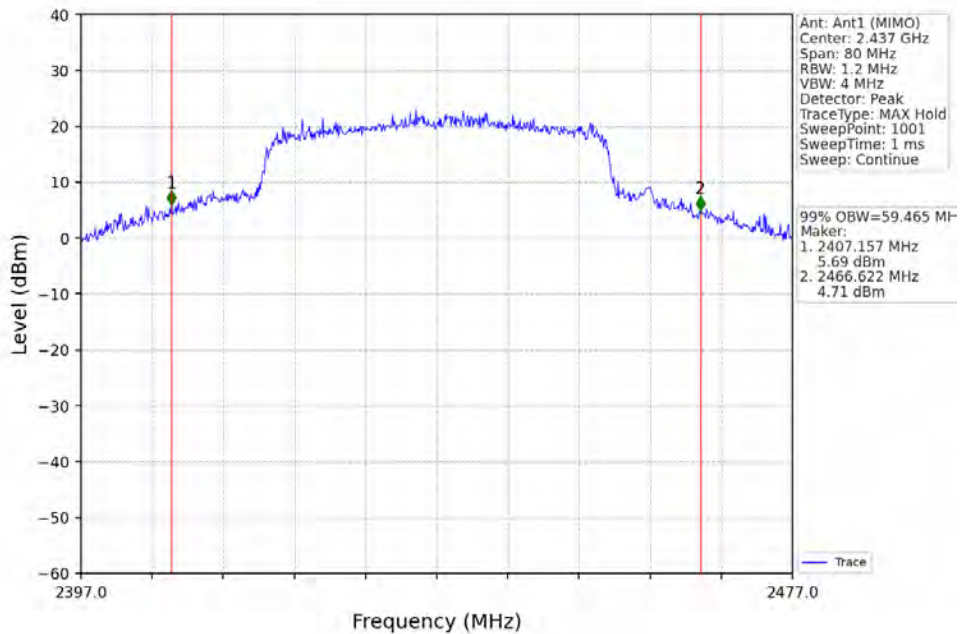
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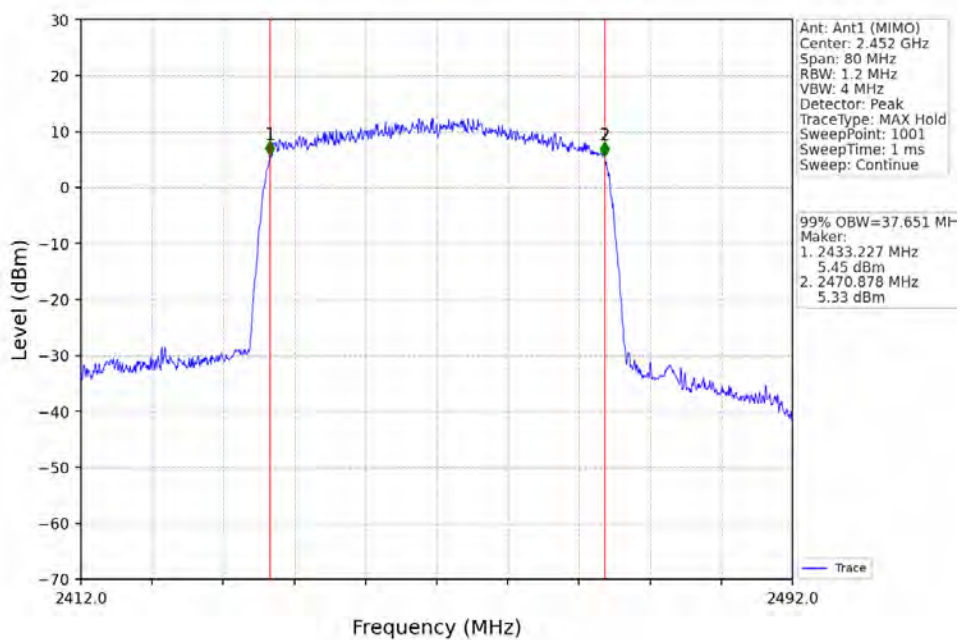
Report No.: FYCR220800030401

Page: 180 of 291

802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



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

Report No.: FYCR220800030401

Page: 181 of 291

10.1.3 6dB BW

10.1.3.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	MIMO	2412	/	/	1	8.572	>=0.5	Pass
		2437	/	/	1	9.063	>=0.5	Pass
		2462	/	/	1	7.614	>=0.5	Pass
802.11g	MIMO	2412	/	/	1	15.150	>=0.5	Pass
		2437	/	/	1	15.339	>=0.5	Pass
		2462	/	/	1	15.710	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	15.707	>=0.5	Pass
		2437	/	/	1	16.100	>=0.5	Pass
		2462	/	/	1	15.748	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.101	>=0.5	Pass
		2437	/	/	1	34.457	>=0.5	Pass
		2452	/	/	1	35.092	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	18.139	>=0.5	Pass
		2437	RU242	Left	1	17.536	>=0.5	Pass
		2462	RU242	Left	1	18.692	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	35.377	>=0.5	Pass
		2437	RU484	Left	1	35.579	>=0.5	Pass
		2452	RU484	Left	1	35.141	>=0.5	Pass



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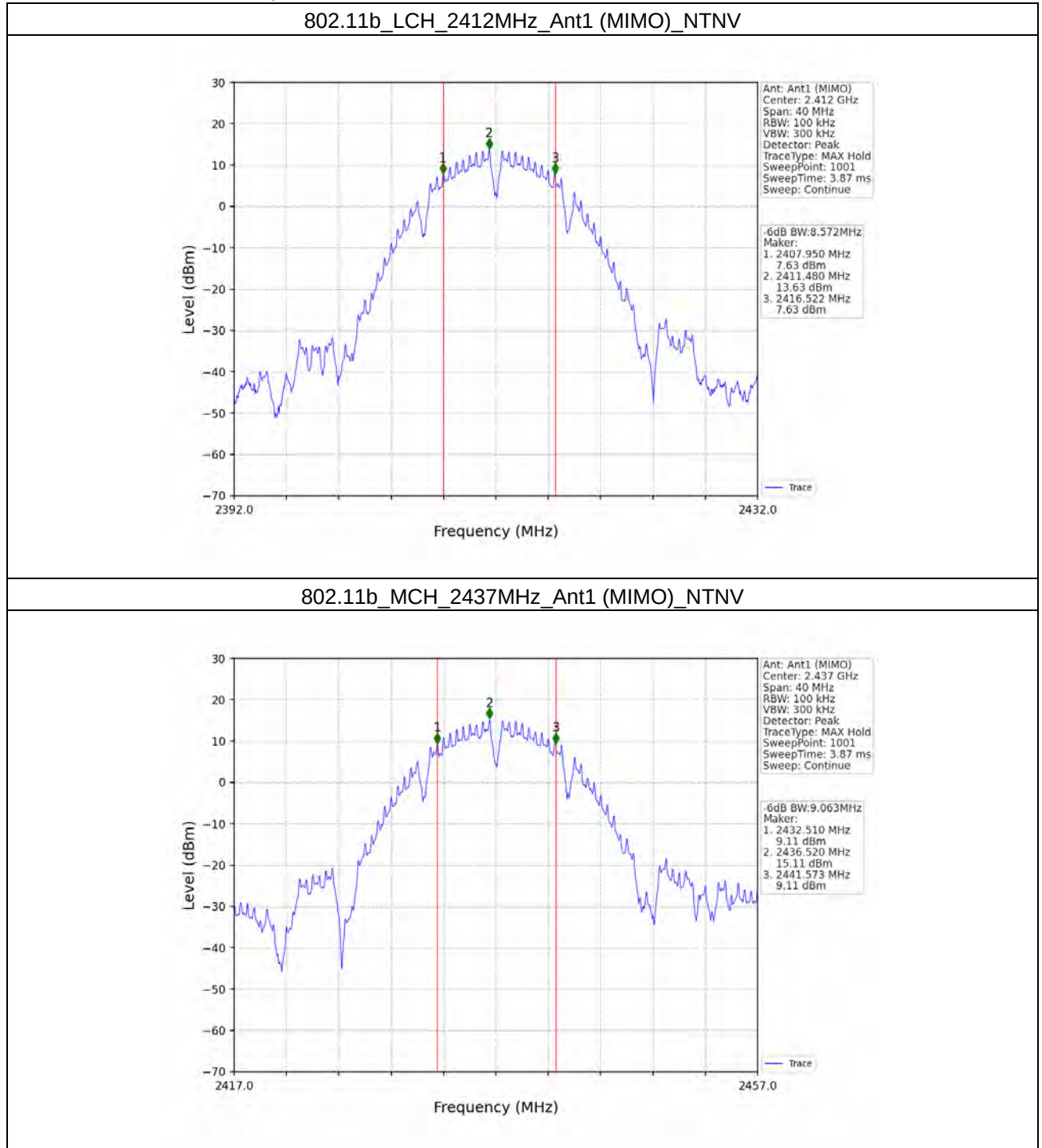
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Page: 182 of 291

10.1.3.1.1 Test Graph



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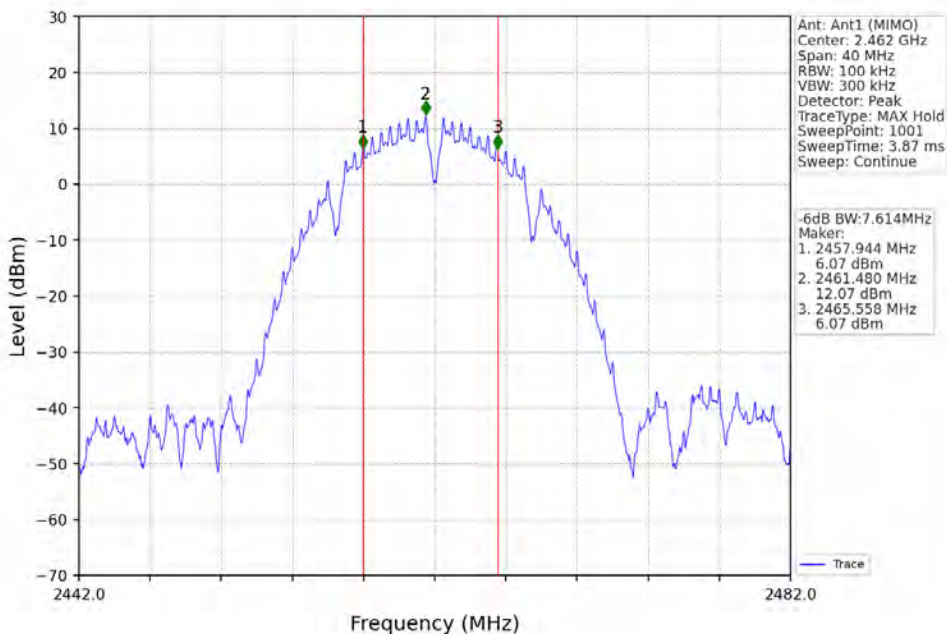
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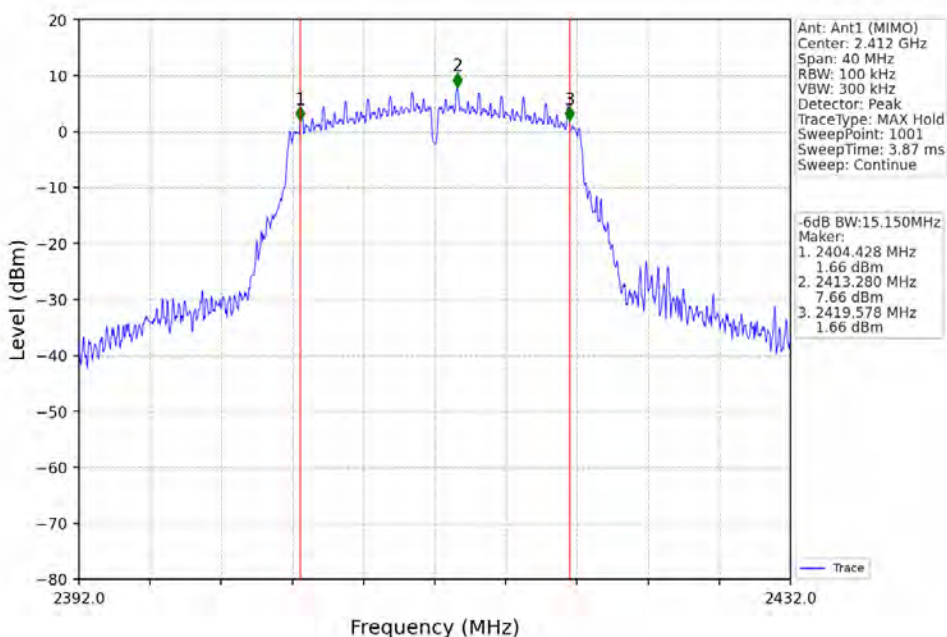
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Page: 183 of 291

802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



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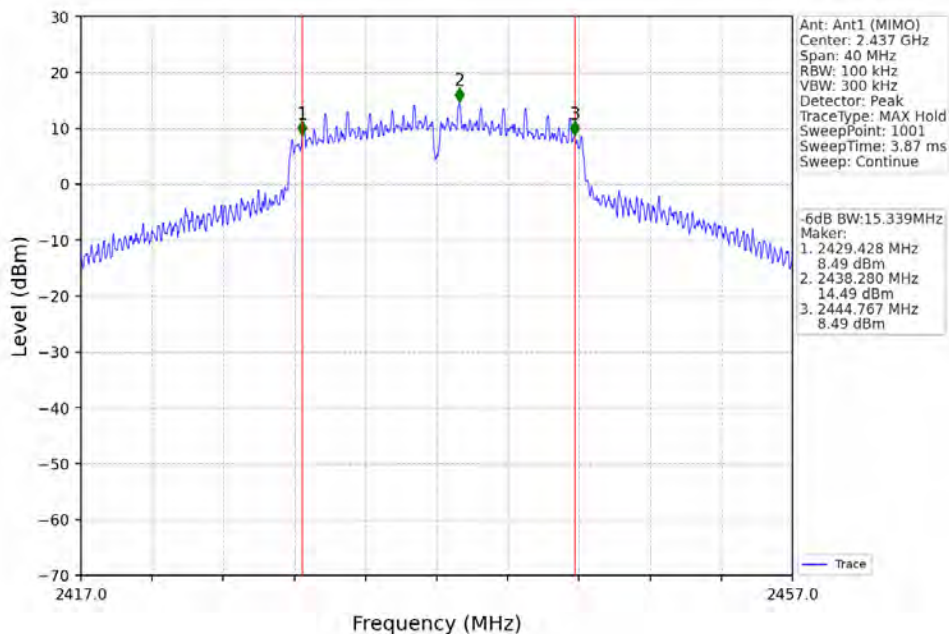
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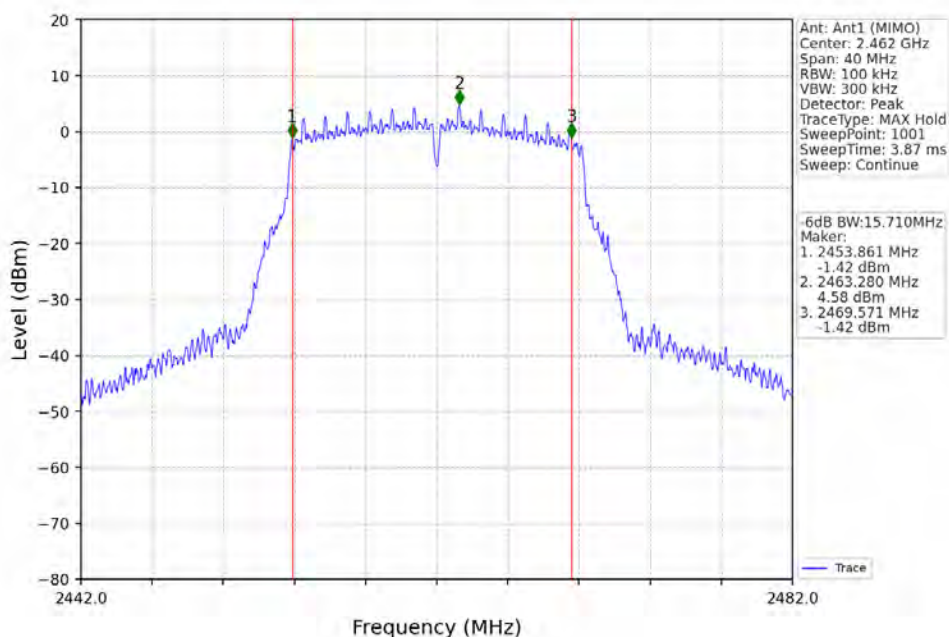
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802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



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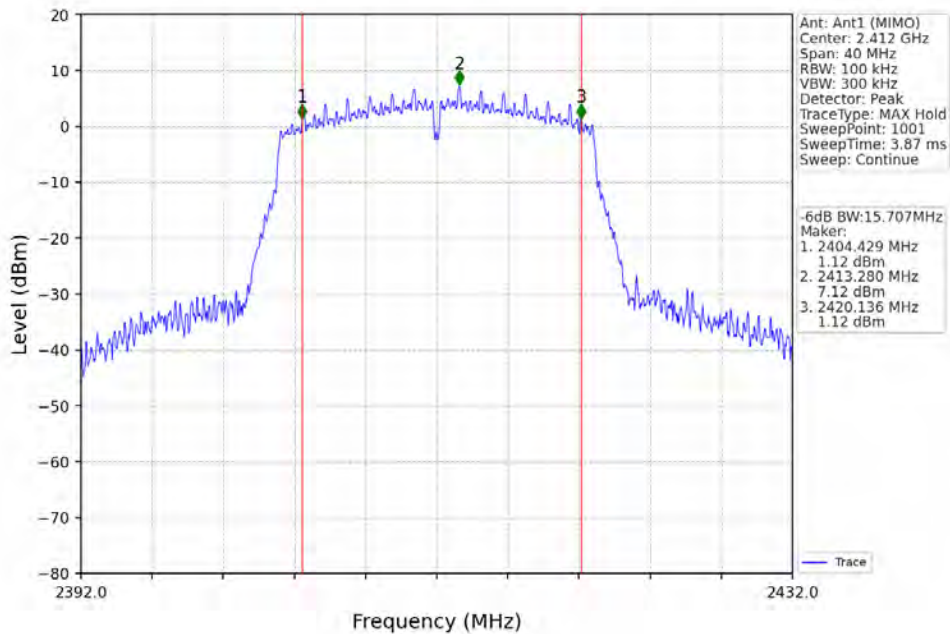
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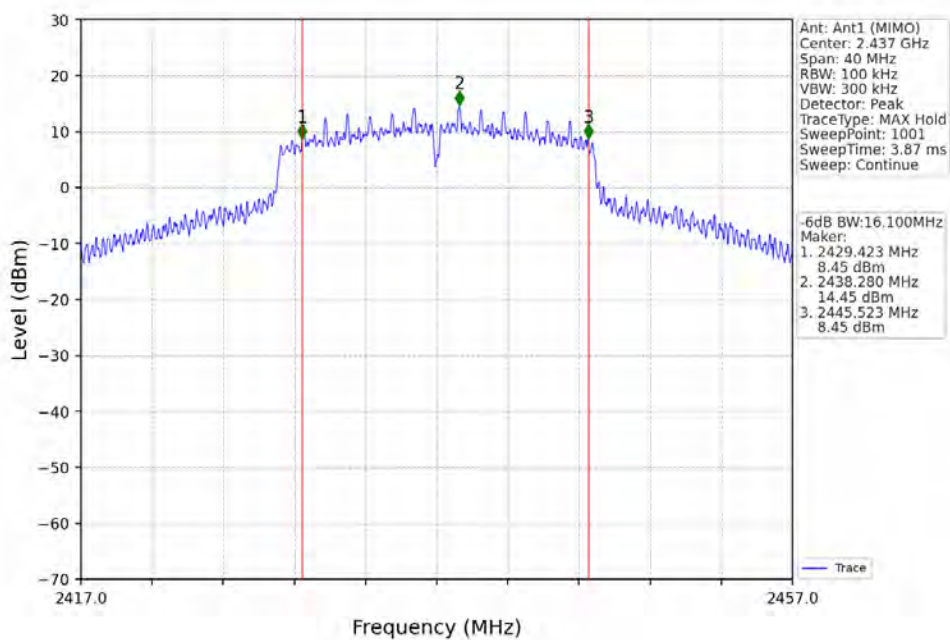
Report No.: FYCR220800030401

Page: 185 of 291

802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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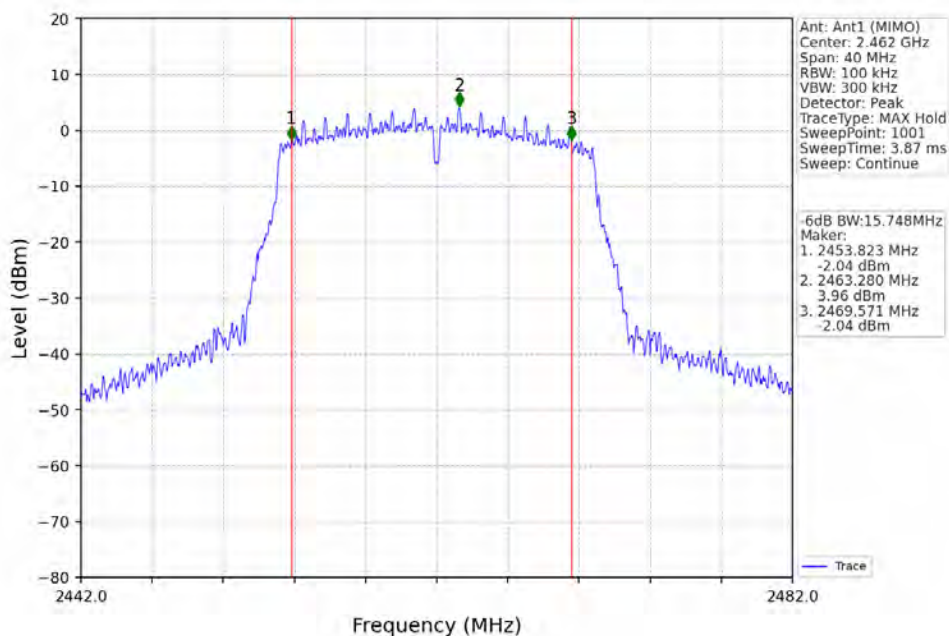
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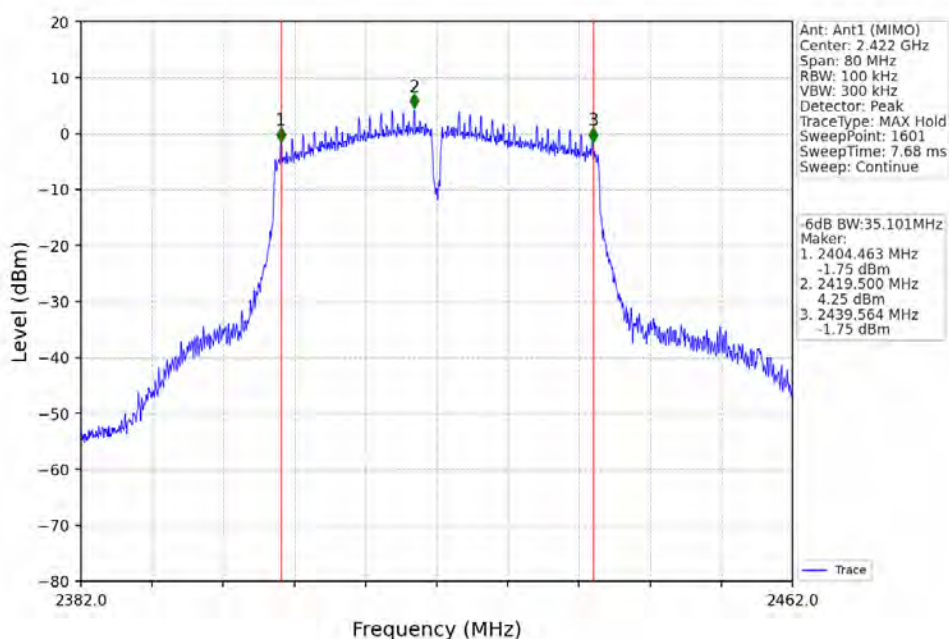
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Page: 186 of 291

802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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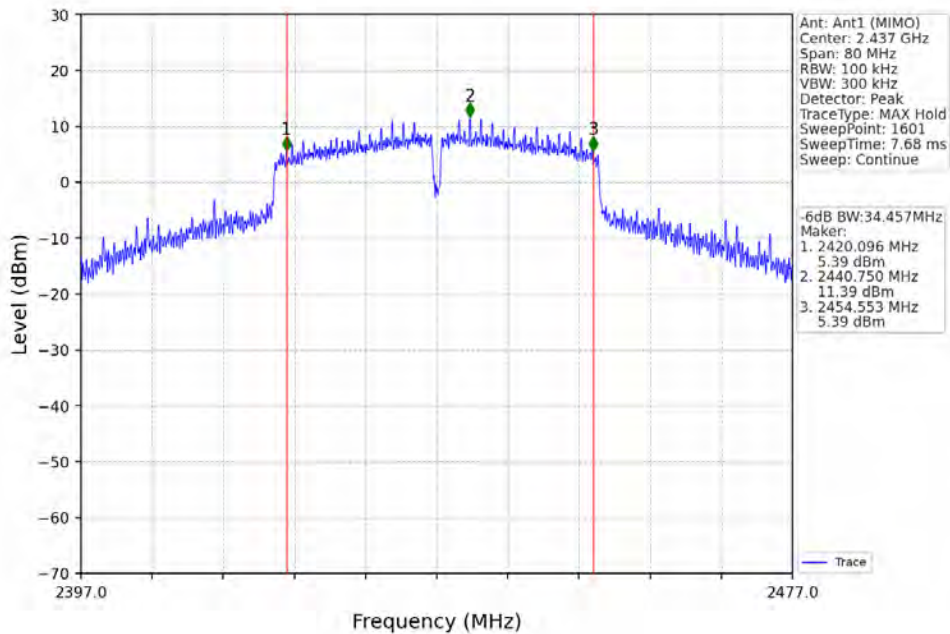
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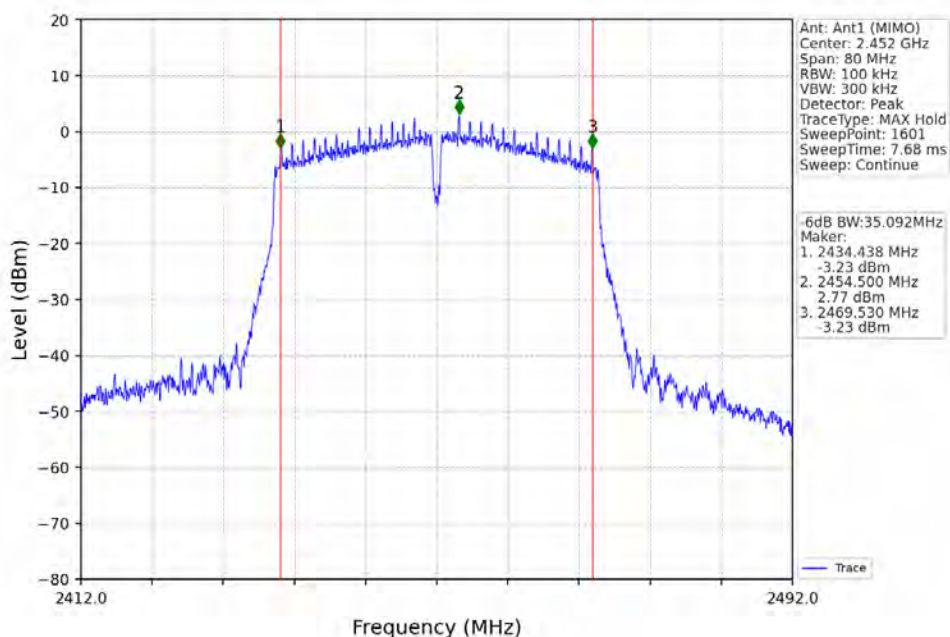
Report No.: FYCR220800030401

Page: 187 of 291

802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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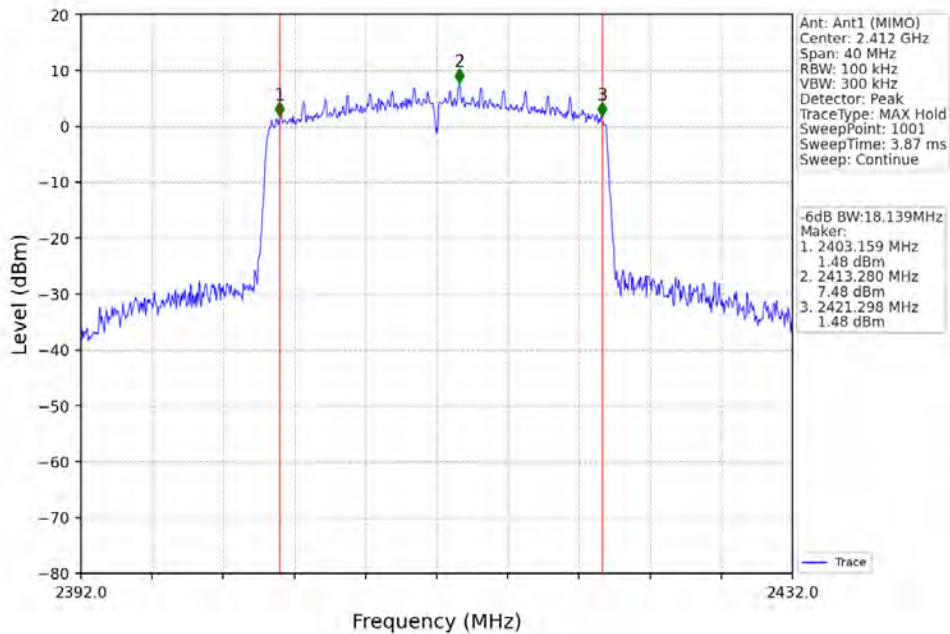
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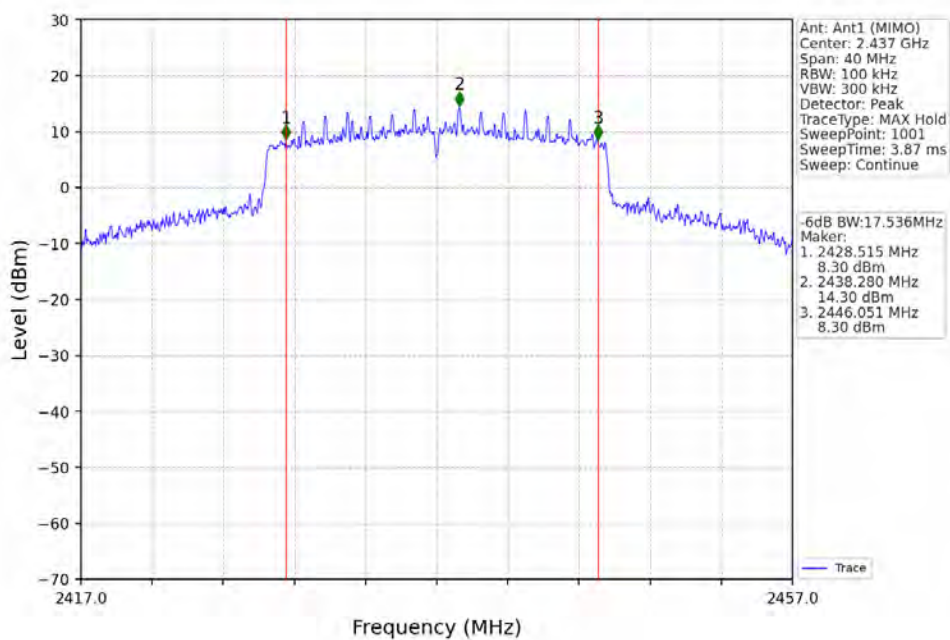
Report No.: FYCR220800030401

Page: 188 of 291

802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



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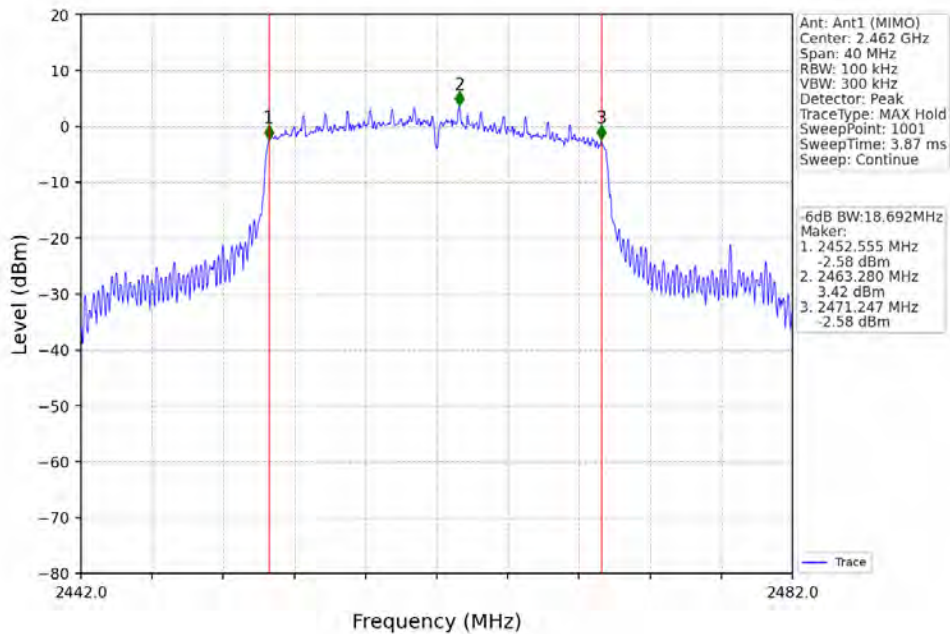
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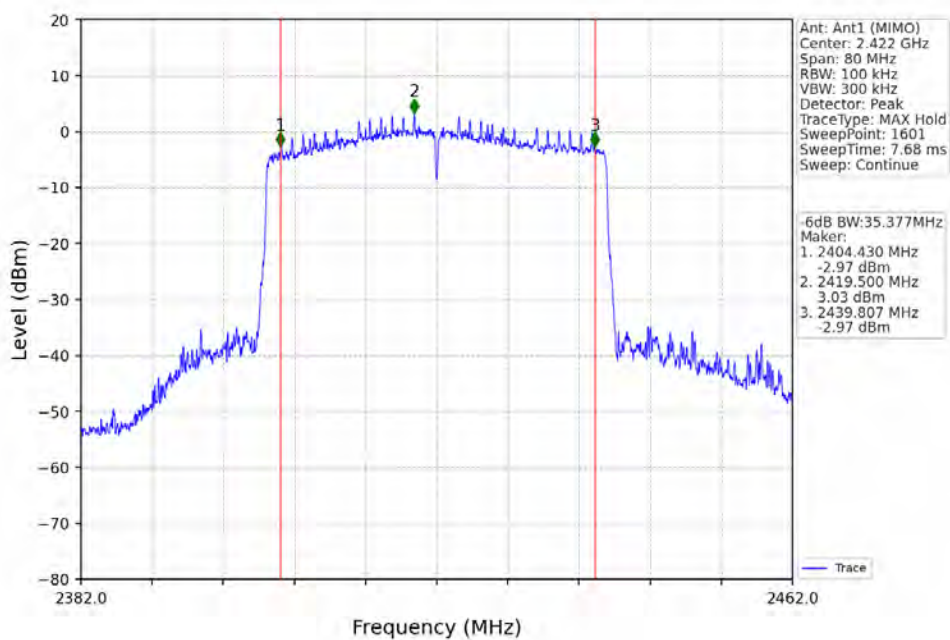
Report No.: FYCR220800030401

Page: 189 of 291

802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



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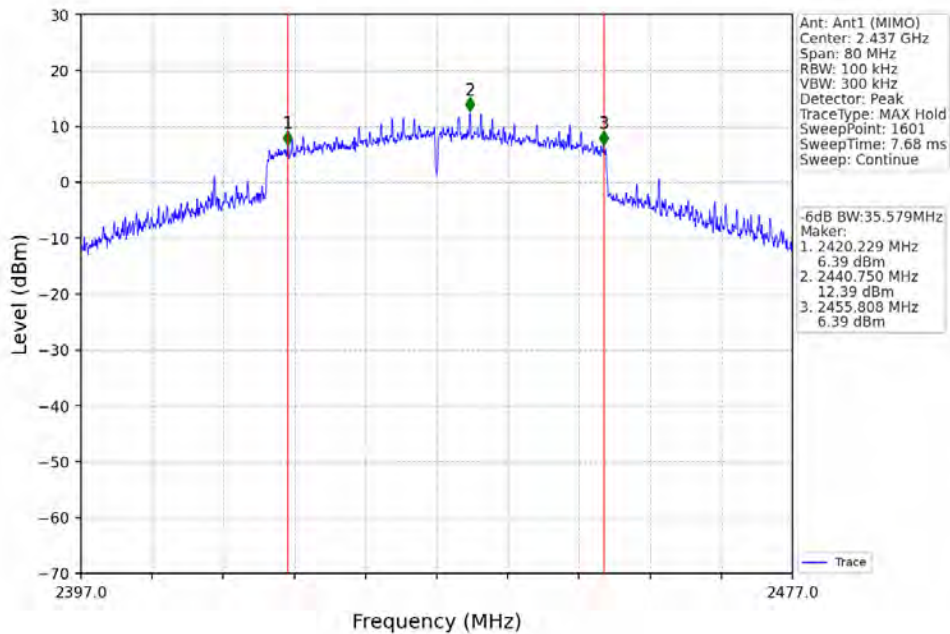
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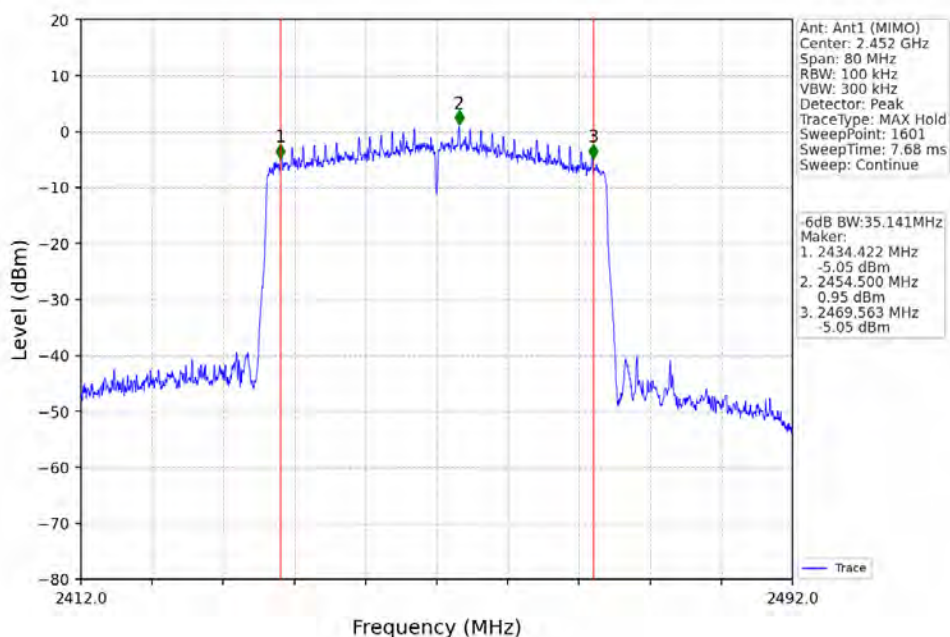
Report No.: FYCR220800030401

Page: 190 of 291

802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



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

Report No.: FYCR220800030401

Page: 191 of 291

10.1.4 Maximum Conducted Output Power

10.1.4.1 Power

10.1.4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	MIMO	2412	/	/	21.53	21.40	24.48	<=30	Pass
		2437	/	/	22.72	22.66	25.70	<=30	Pass
		2457	/	/	22.43	22.78	25.62	<=30	Pass
		2462	/	/	19.77	20.44	23.13	<=30	Pass
802.11g	MIMO	2412	/	/	16.22	15.76	19.01	<=30	Pass
		2417	/	/	18.75	18.97	21.87	<=30	Pass
		2437	/	/	21.14	21.05	24.11	<=30	Pass
		2447	/	/	18.25	18.06	21.17	<=30	Pass
		2452	/	/	18.36	18.19	21.29	<=30	Pass
		2457	/	/	16.72	16.97	19.86	<=30	Pass
		2462	/	/	14.90	15.29	18.11	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	16.93	16.56	19.76	<=30	Pass
		2417	/	/	18.47	18.89	21.70	<=30	Pass
		2437	/	/	21.05	20.96	24.02	<=30	Pass
		2447	/	/	17.91	18.26	21.10	<=30	Pass
		2452	/	/	17.52	17.82	20.68	<=30	Pass
		2457	/	/	16.64	16.89	19.78	<=30	Pass
		2462	/	/	14.23	14.63	17.44	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	15.84	15.75	18.81	<=30	Pass
		2437	/	/	16.66	16.68	19.68	<=30	Pass
		2452	/	/	15.05	14.99	18.03	<=30	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	15.17	14.76	17.98	<=30	Pass
		2437	RU242	Left	16.91	16.93	19.93	<=30	Pass
		2462	RU242	Left	14.48	14.86	17.68	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	14.51	14.38	17.46	<=30	Pass
		2437	RU484	Left	14.81	14.86	17.85	<=30	Pass
		2452	RU484	Left	13.80	13.67	16.75	<=30	Pass



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

Report No.: FYCR220800030401

Page: 192 of 291

10.1.5 Maximum Power Spectral Density

10.1.5.1 PSD

10.1.5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	MIMO	2412	/	/	-0.15	-0.60	2.05	<=8	Pass
		2437	/	/	1.29	1.62	4.27	<=8	Pass
		2462	/	/	-3.41	-1.66	0.02	<=8	Pass
802.11g	MIMO	2412	/	/	-6.58	-6.96	-4.81	<=8	Pass
		2437	/	/	-4.14	-4.21	-1.45	<=8	Pass
		2462	/	/	-9.78	-8.46	-6.74	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-7.43	-8.42	-5.89	<=8	Pass
		2437	/	/	-4.51	-4.79	-2.39	<=8	Pass
		2462	/	/	-10.99	-7.62	-5.98	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-9.95	-10.34	-7.14	<=8	Pass
		2437	/	/	-11.02	-10.74	-8.55	<=8	Pass
		2452	/	/	-12.73	-12.66	-10.36	<=8	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	-7.94	-8.16	-5.92	<=8	Pass
		2437	RU242	Left	-9.24	-10.48	-8.22	<=8	Pass
		2462	RU242	Left	-11.91	-11.55	-9.07	<=8	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	-11.82	-12.92	-10.02	<=8	Pass
		2437	RU484	Left	-14.27	-14.93	-12.64	<=8	Pass
		2452	RU484	Left	-15.13	-15.69	-12.90	<=8	Pass



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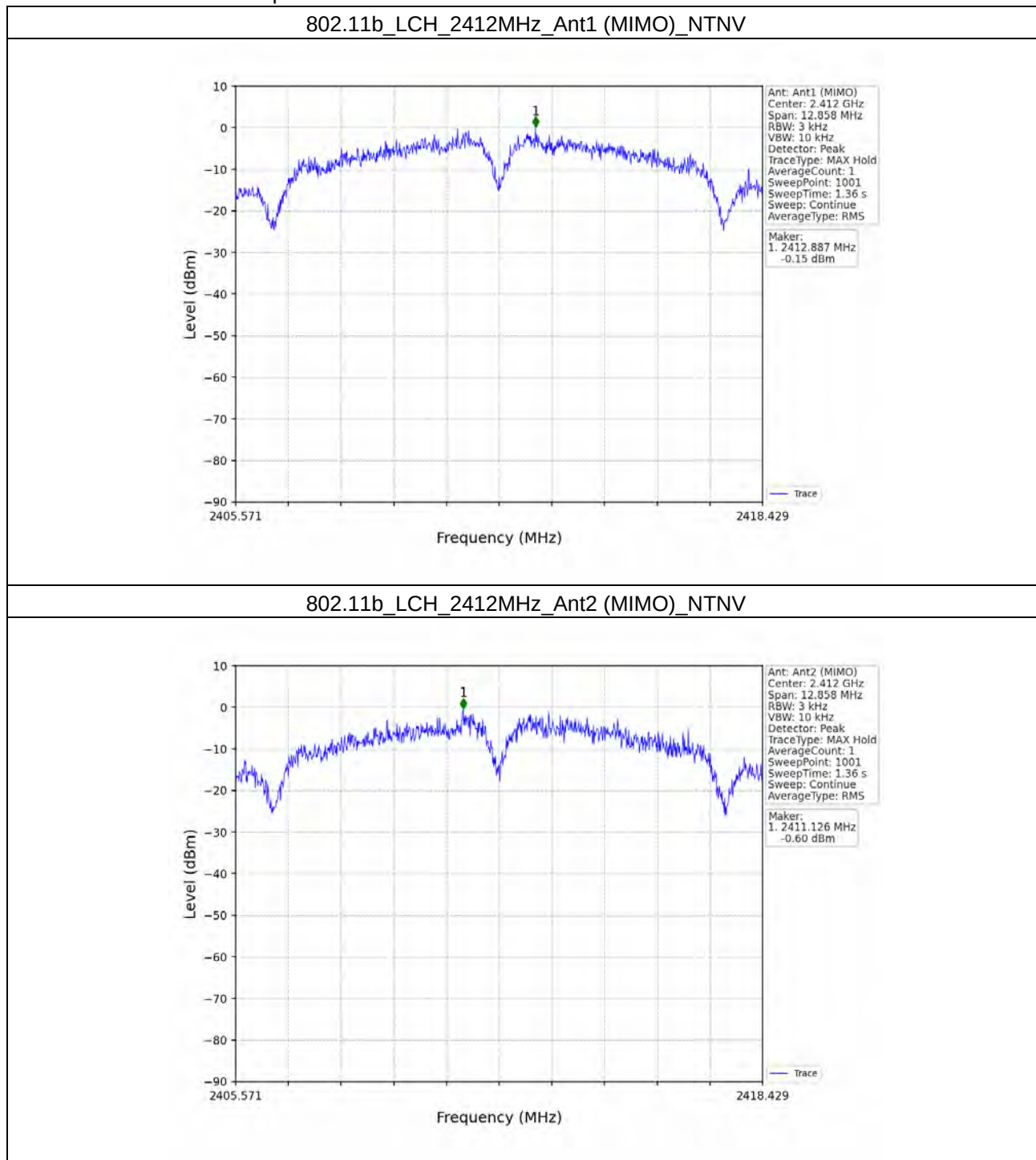
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Report No.: FYCR220800030401

Page: 193 of 291

10.1.5.1.1.1 Test Graph



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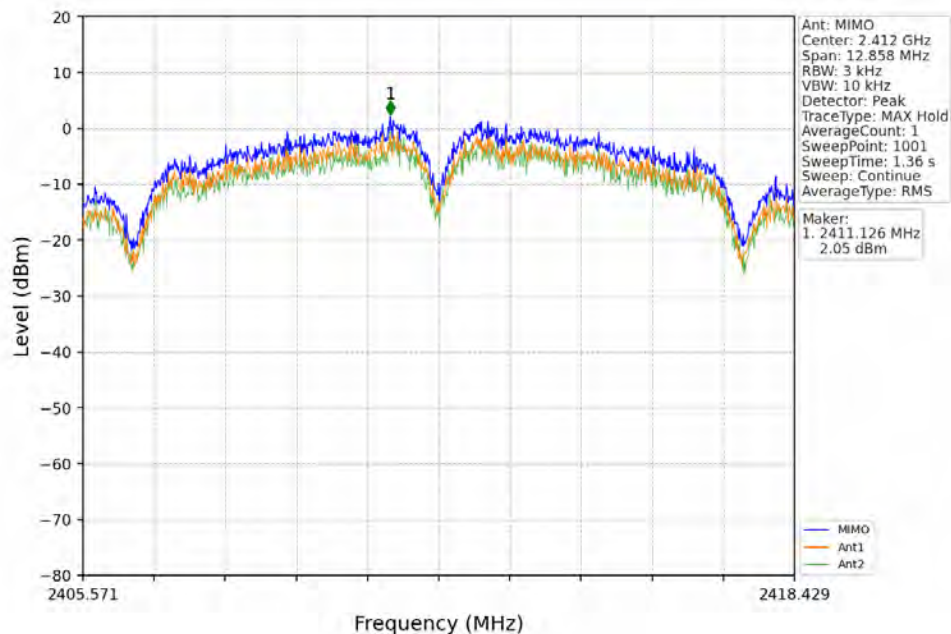
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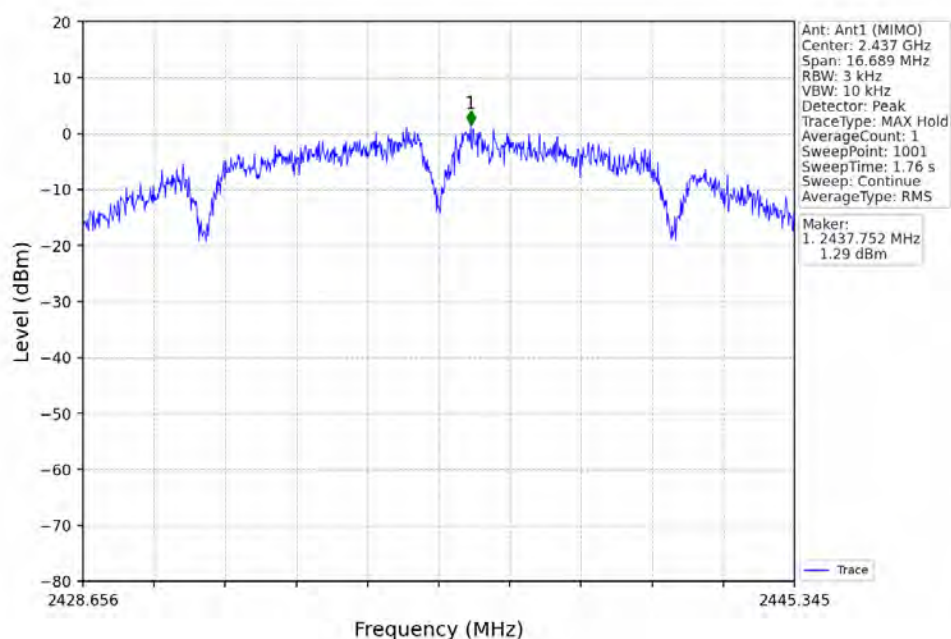
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Page: 194 of 291

802.11b_LCH_2412MHz_MIMO_NTNV



802.11b_MCH_2437MHz_Ant1 (MIMO)_NTNV



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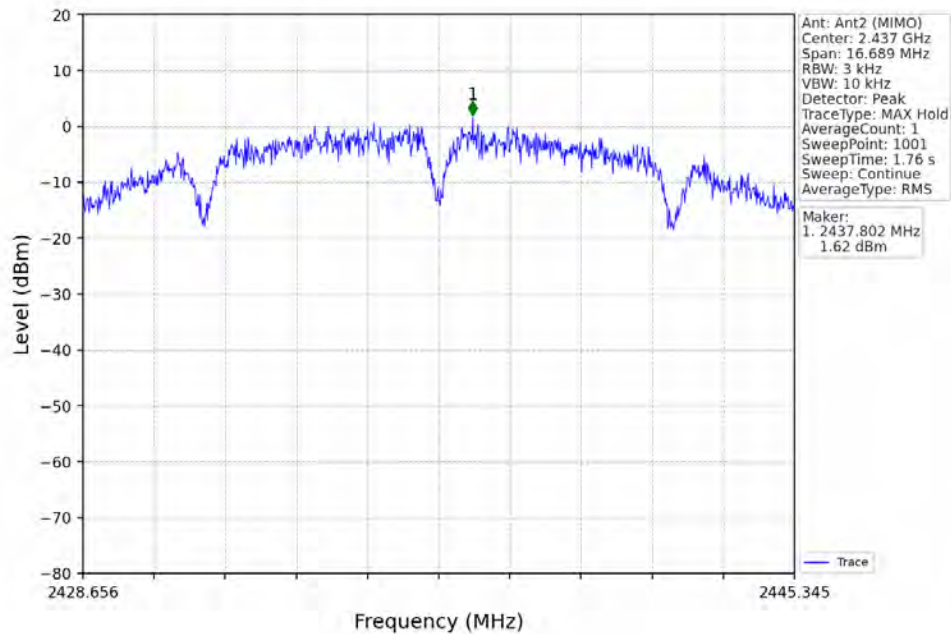
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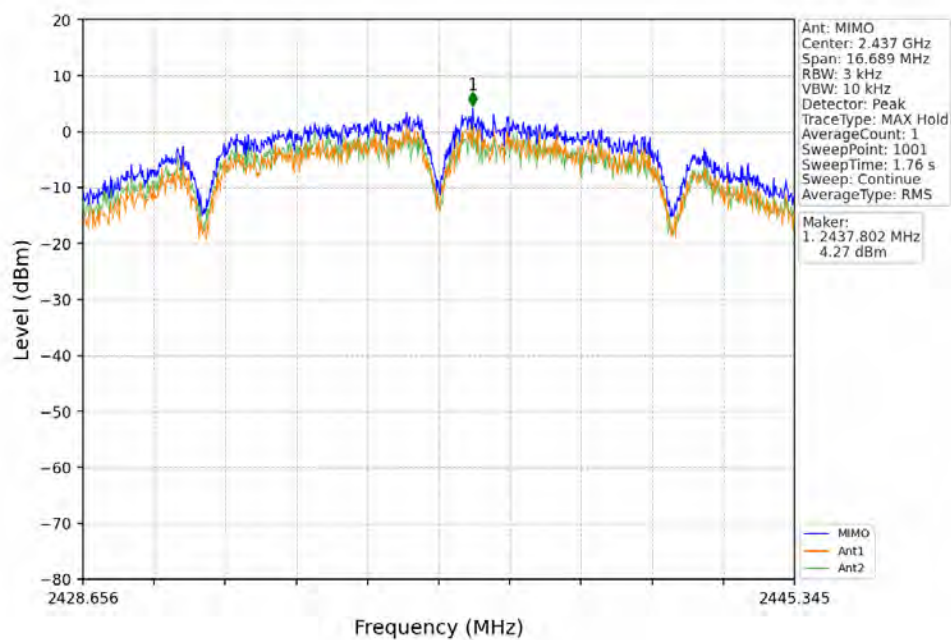
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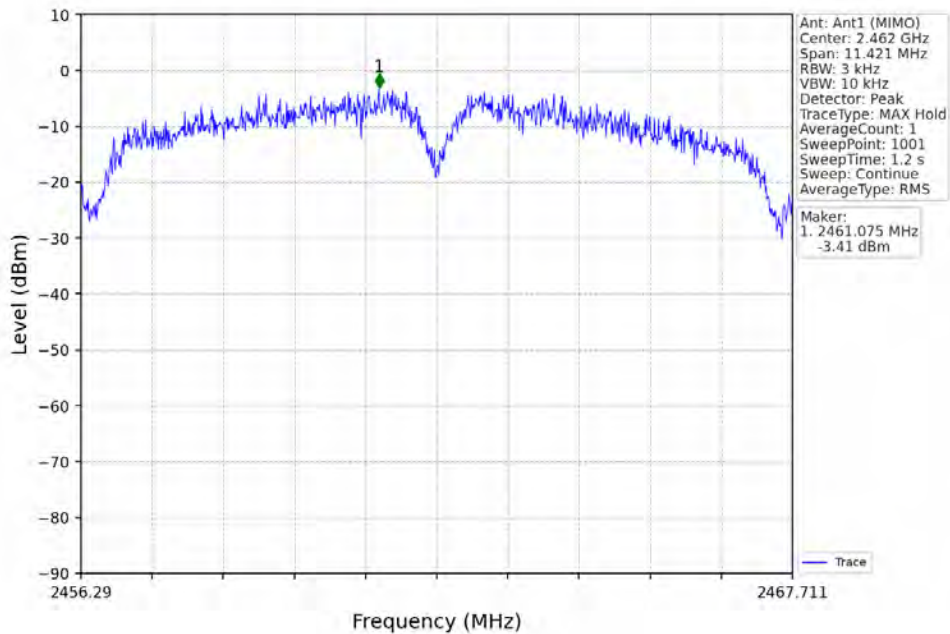
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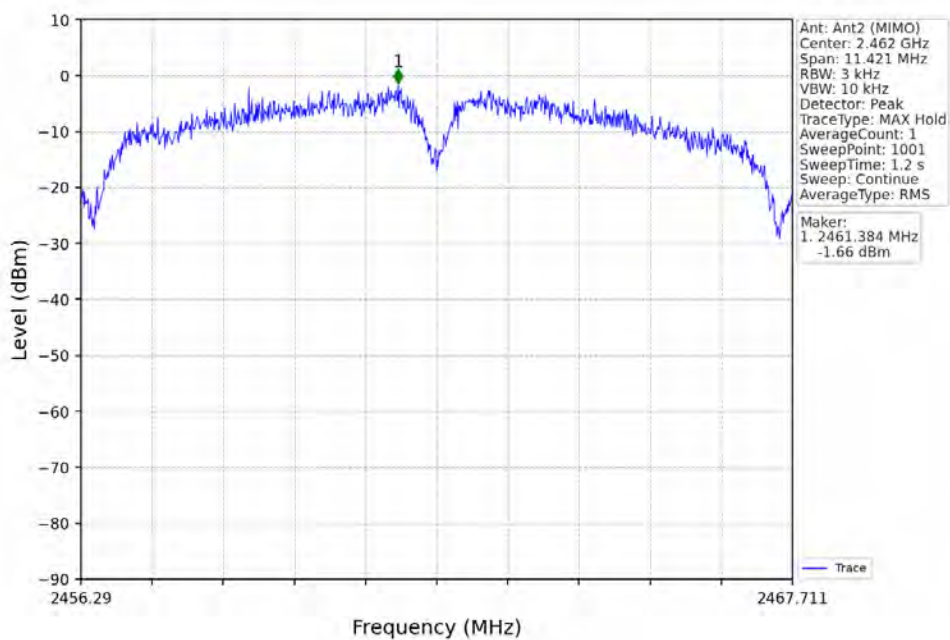
Report No.: FYCR220800030401

Page: 196 of 291

802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11b_HCH_2462MHz_Ant2 (MIMO)_NTNV



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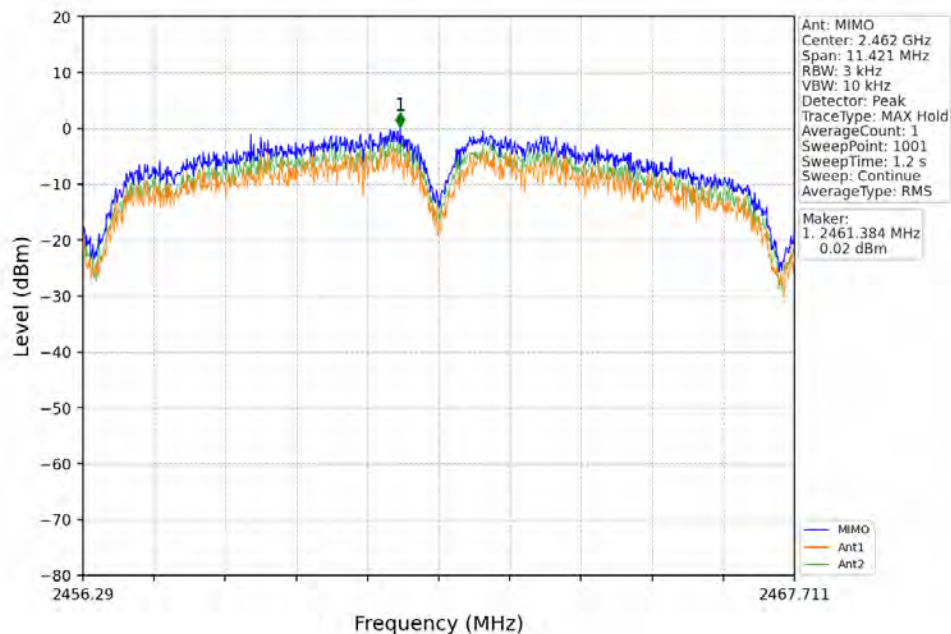
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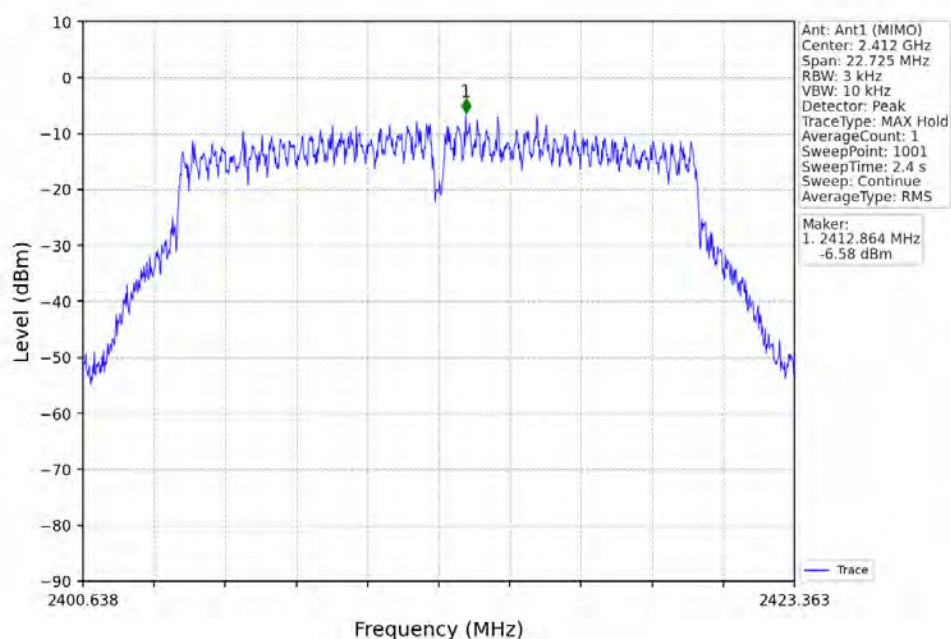
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Page: 197 of 291

802.11b_HCH_2462MHz_MIMO_NTNV



802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



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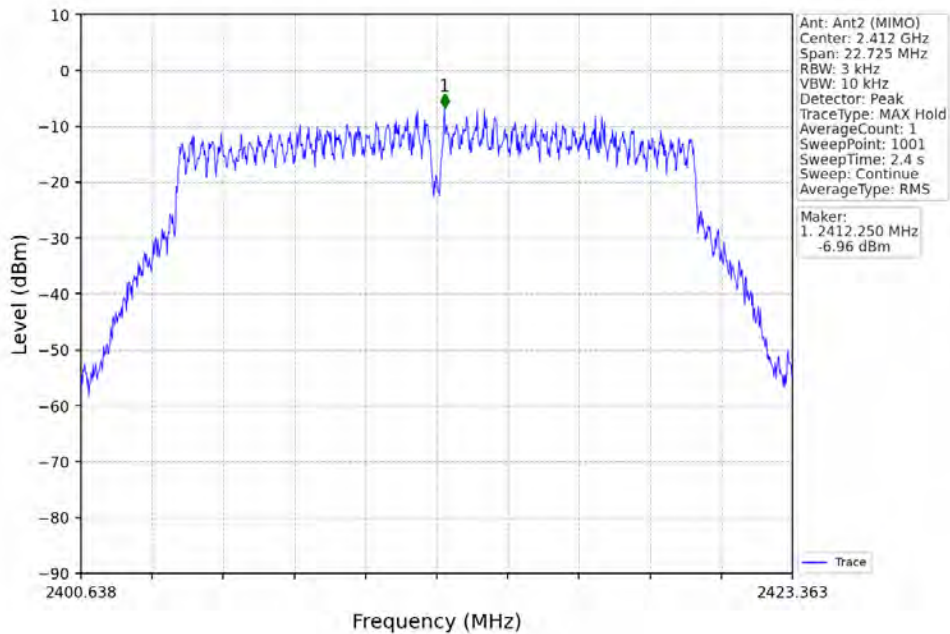
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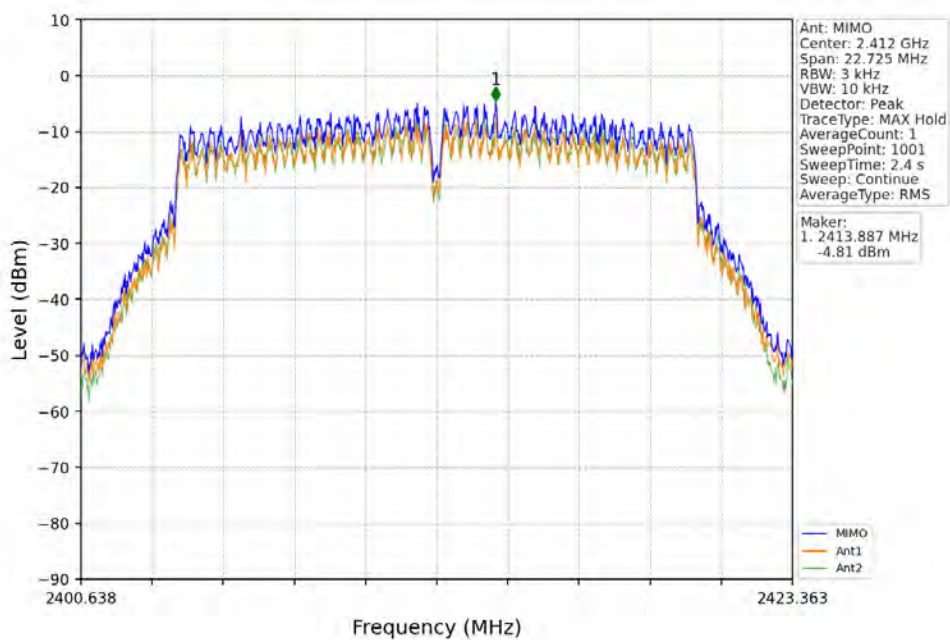
Report No.: FYCR220800030401

Page: 198 of 291

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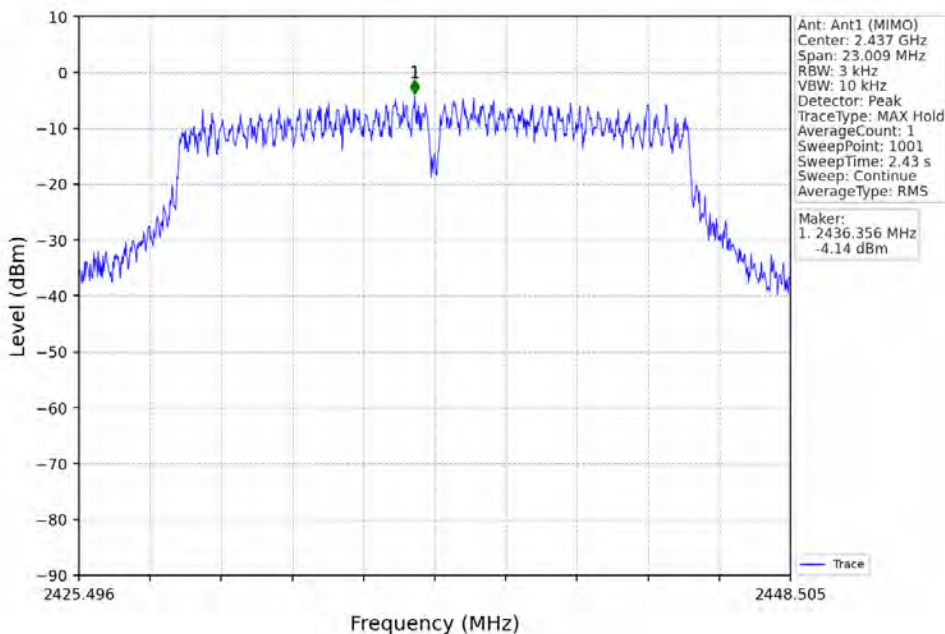
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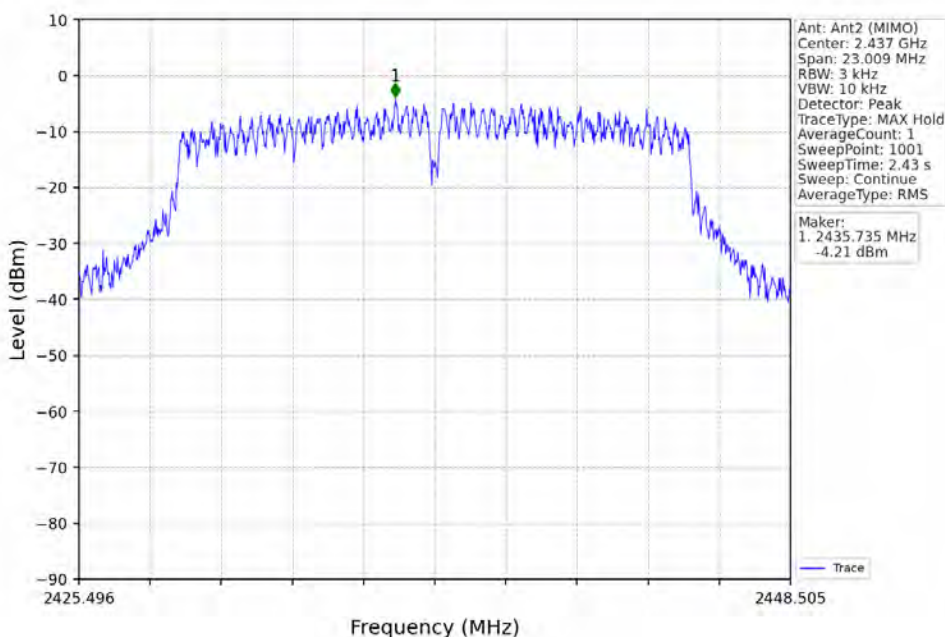
Report No.: FYCR220800030401

Page: 199 of 291

802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11g_MCH_2437MHz_Ant2 (MIMO)_NTNV



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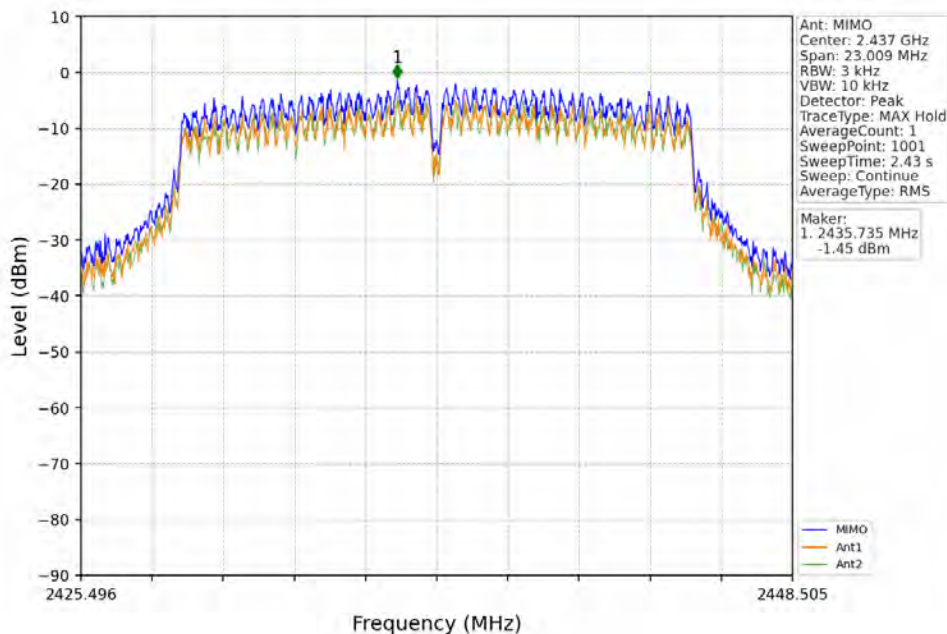
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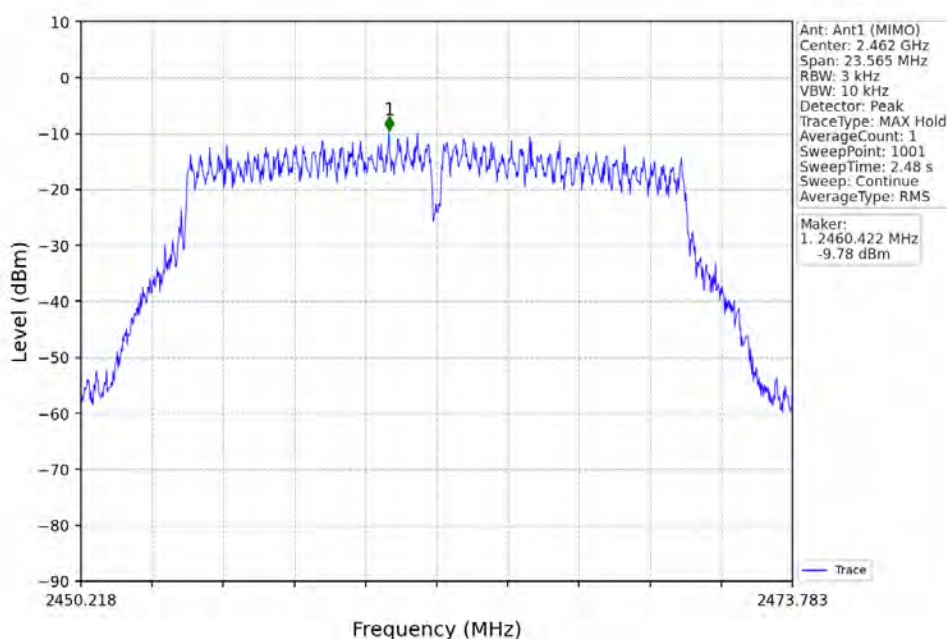
Report No.: FYCR220800030401

Page: 200 of 291

802.11g_MCH_2437MHz_MIMO_NTNV



802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



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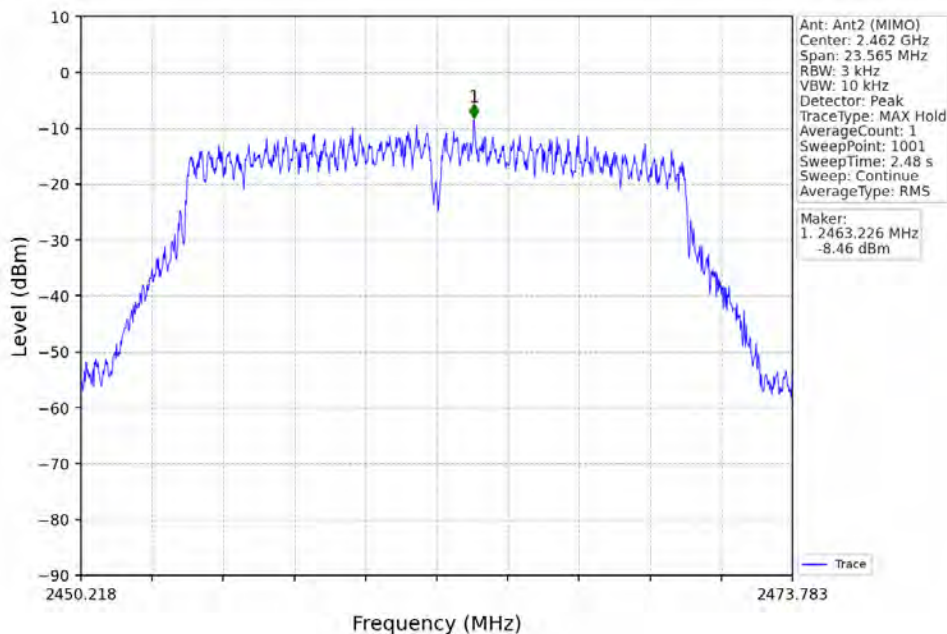
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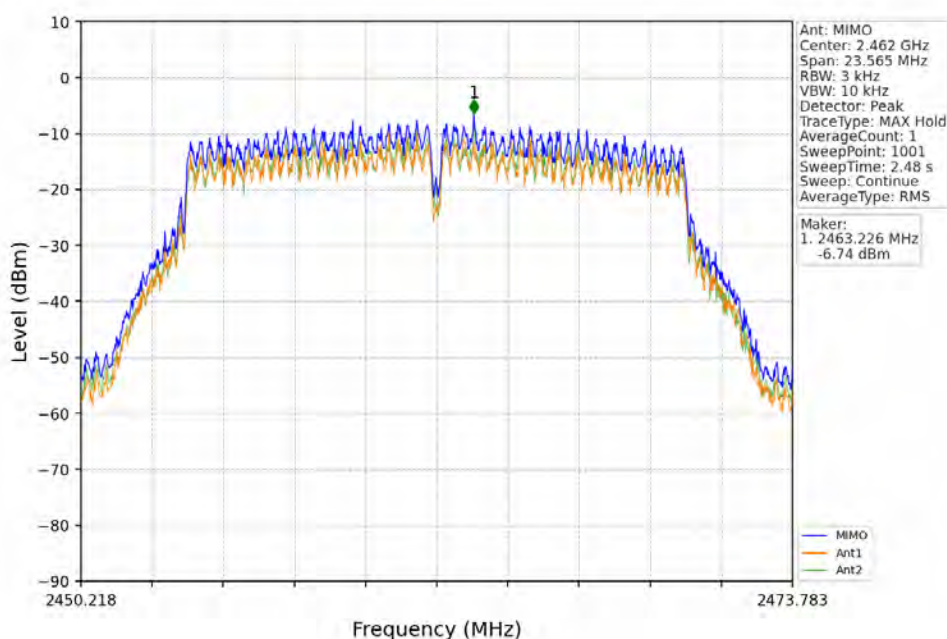
Report No.: FYCR220800030401

Page: 201 of 291

802.11g_HCH_2462MHz_Ant2 (MIMO)_NTNV



802.11g_HCH_2462MHz_MIMO_NTNV



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