

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400147803

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TEST REPORT

Application No.: SZCR2404001478AT

Applicant: FIH Co.,LTD

Address of Applicant: No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

Manufacturer:

No.4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan Address of Manufacturer:

Factory: Futaijing Precision Electronics (Beijing)co., Ltd.

Address of Factory: No.9 JinXiu Street, Beijing Economic & Technological Development Area,

Beijing 100176, China

Equipment Under Test (EUT):

EUT Name: 4G Module Model No.: 31PHBM2000A FCC ID: RYQ31PHBM2000A

47 CFR Part 15, Subpart E 15.407 Standard(s):

Date of Receipt: 2024-04-23

2024-05-05 to 2024-05-21 **Date of Test:**

Date of Issue: 2024-06-08

Pass* Test Result:

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-06-08		Original			

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15,	N/A	47 CFR Part 15, Subpart C 15.203	Pass		
Transmission in the Absence of Data	Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass		

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725- 5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass



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General Information

Details of E.U.T. 4.1

Power supply:	DC12V
Cable Loss (for RF conducted test):	1.5dB
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac 20: 20MHz; 802.11n/ac 40: 40MHz; 802.11ac 80: 80MHz
DFS Function:	Not support DFS
TPC Function:	Without TPC function
Antenna Type:	Dipole Antenna
Antenna Gain:	U-NII-1:-3.02dBi, U-NII-3:-2.37dBi

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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Test Board	FIH		



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Maximum Conducted output power	± 0.75dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Peak Power spectrum density	± 2.84dB
Frequency Stability	± 7.25 x 10-8



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz. 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13	
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19	
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	

Maximum Conducted output power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26	

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



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Radiated Emissions (Above 1GHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-05-12 2024-05-11	2024-05-11 2027-05-10	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Horn Antenna Rohde&Schwarz HF907 S		SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14	

Radiated Emissions which fall in the restricted bands						
Equipment	oment Manufacturer		Model No. Inventory No.		Cal Due Date	
3m Fully-Anechoic	AUDIX	N/A	SEM001-02	2021-05-12	2024-05-11	
Chamber	AUDIX	IN/A	3EM001-02	2024-05-11	2027-05-10	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Zhao Xin	PS-305D	SEM011-13	2023-09-20	2024-09-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-21	2024-03-15	2025-03-14
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB via R-SMA port and no consideration of replacement. The best case gain of the antenna is U-NII-1:-3.02dBi, U-NII-3:-2.37dBi.

Antenna location: Refer to external photos



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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Radio Spectrum Matter Test Results 7

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

47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9) Test Requirement

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

Limit:

Eroguanay of amission/MHz	Conducted limit(dB μ V)			
Frequency of emission(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		
*Decreases with the logarithm of the frequency.				

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 53.2 % RH Atmospheric Pressure: 1020 mbar 23.8 °C

1.2 Test Mode Description

7.1.2 Test W	ioue De	scription
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.



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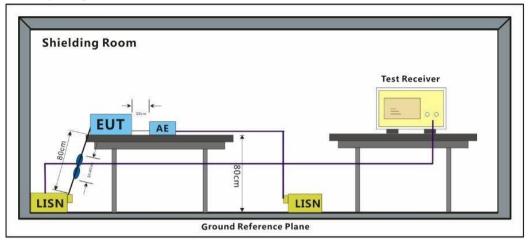
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/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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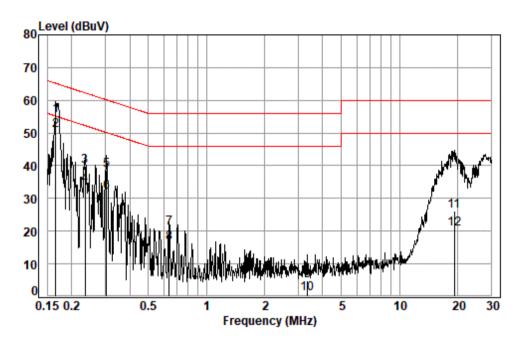


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Test Mode: 01; Line: Live line



: Shielding Room

Condition: Line Job No. : 01478AT

Test mode: 01

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1659	0.02	9.50	45.94	55.46	65.16	-9.70	QP
2 *	0.1659	0.02	9.50	41.28	50.80	55.16	-4.36	Average
3	0.2353	0.03	9.49	30.38	39.90	62.26	-22.36	QP
4	0.2353	0.03	9.49	24.56	34.08	52.26	-18.18	Average
5	0.3035	0.03	9.54	29.04	38.61	60.15	-21.54	QP
6	0.3035	0.03	9.54	22.46	32.03	50.15	-18.12	Average
7	0.6406	0.04	9.60	11.32	20.96	56.00	-35.04	QP
8	0.6406	0.04	9.60	6.76	16.40	46.00	-29.60	Average
9	3.3458	0.08	9.50	-4.70	4.88	56.00	-51.12	QP
10	3.3458	0.08	9.50	-8.71	0.87	46.00	-45.13	Average
11	19.2236	0.26	9.99	15.96	26.21	60.00	-33.79	QP
12	19.2236	0.26	9.99	10.32	20.57	50.00	-29.43	Average

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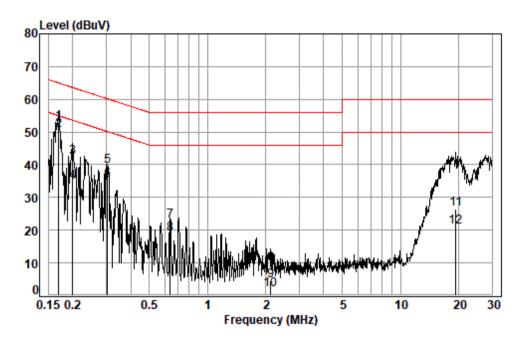


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Test Mode: 01; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 01478AT

Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1694	0.02	9.64	43.16	52.82	64.99	-12.17	QP
2 *	0.1694	0.02	9.64	40.90	50.56	54.99	-4.43	Average
3	0.2007	0.02	9.66	32.56	42.24	63.58	-21.34	QP
4	0.2007	0.02	9.66	24.87	34.55	53.58	-19.03	Average
5	0.3035	0.03	9.70	29.96	39.69	60.15	-20.46	QP
6	0.3035	0.03	9.70	25.61	35.34	50.15	-14.81	Average
7	0.6406	0.04	9.87	12.80	22.71	56.00	-33.29	QP
8	0.6406	0.04	9.87	8.88	18.79	46.00	-27.21	Average
9	2.1326	0.07	9.75	-5.38	4.44	56.00	-51.56	QP
10	2.1326	0.07	9.75	-8.03	1.79	46.00	-44.21	Average
11	19.4284	0.27	10.18	16.09	26.54	60.00	-33.46	QP
12	19.4284	0.27	10.18	10.51	20.96	50.00	-29.04	Average

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7.2 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band	d(MHz)	Limit	
5150-5250		≤1W(30dBm) for master device	
5150-5250		≤250mW(24dBm) for client device	
5250-5350	0-5350 ≤250mW(24dBm) or 11dBm+10logB*		
5470-5725	725 ≤250mW(24dBm) or 11dBm+10logB*		
5725-5850	5850 ≤1W(30dBm)		
Remark: * Whe	re B is the	e 26dB emission bandwidth in MHz.	
of con	The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of a rms-equivalent voltage.		

7.2.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 23.2 °C Humidity: 46.6 % RH

7.2.2 Test Mode Description

	Tiziz Took inicao Bookiption				
Pre-scan / Final test	Mode Code	Description			
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.			
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.			



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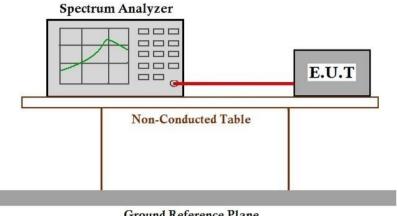
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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 51.5 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.



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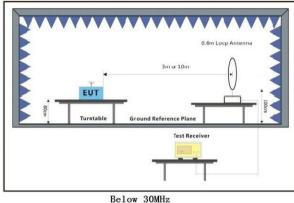
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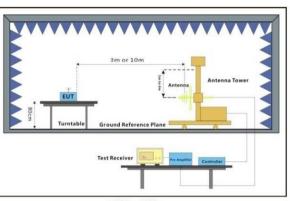


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7.3.3 Test Setup Diagram





30MHz-1GHz

7.3.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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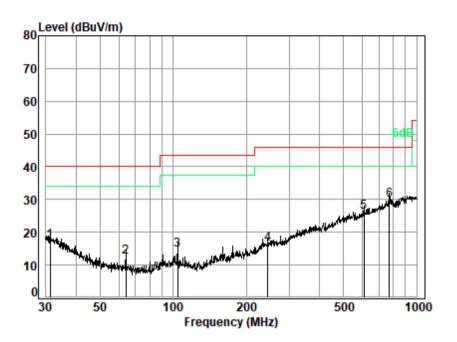


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Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 01478AT

Test Mode: 01

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.18	20.65	0.65	27.80	23.91	17.41	40.00	-22.59	QP
2	63.98	11.11	0.95	27.71	28.21	12.56	40.00	-27.44	QP
3	104.54	12.21	1.21	27.59	28.76	14.59	43.50	-28.91	QP
4	245.09	17.10	1.93	27.09	24.43	16.37	46.00	-29.63	QP
5	607.79	24.61	3.23	28.21	26.40	26.03	46.00	-19.97	QP
6 a	774.16	26.84	3.75	27.69	26.91	29.81	46.00	-16.19	OP



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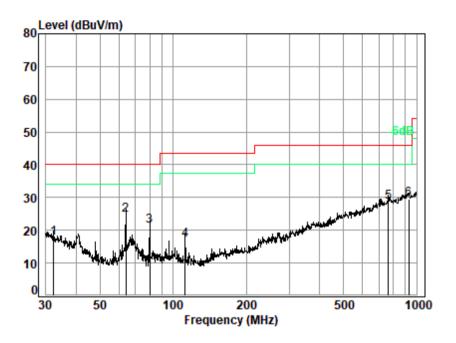


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Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 01478AT Test Mode: 01

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.29	20.15	0.67	27.80	24.62	17.64	40.00	-22.36	QP
2 q	63.98	11.11	0.95	27.71	40.17	24.52	40.00	-15.48	QP
3	80.08	10.46	1.06	27.67	37.38	21.23	40.00	-18.77	QP
4	112.13	11.69	1.26	27.57	31.73	17.11	43.50	-26.39	QP
5	766.06	26.59	3.72	27.72	25.99	28.58	46.00	-17.42	QP
6	929.01	28.16	4.17	26.99	24.07	29.41	46.00	-16.59	OP



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7.4 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3

- *(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge. and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 55.2 % RH Atmospheric Pressure: 1020 mbar



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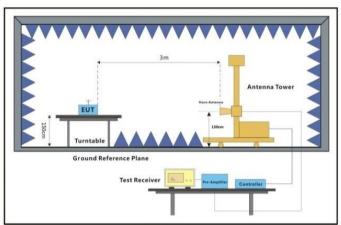
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7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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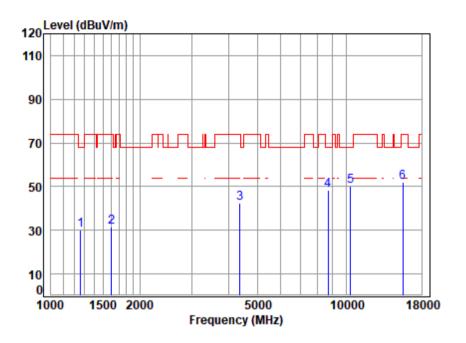


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5180 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	39.61	29.99	68.20	-38.21	peak
2	1606.441	4.21	26.74	38.40	39.12	31.67	74.00	-42.33	peak
3	4367.058	7.04	34.54	35.82	36.81	42.57	74.00	-31.43	peak
4	8688.480	11.38	36.90	37.30	37.47	48.45	68.20	-19.75	peak
5	p10360.000	12.73	37.10	37.54	37.75	50.04	68.20	-18.16	peak
6	15540.000	14.23	41.10	37.23	34.08	52.18	74.00	-21.82	peak



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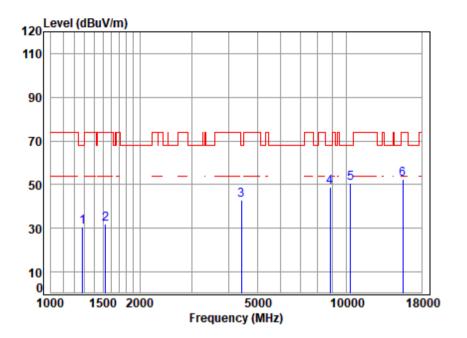


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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5180 TX RSE : 5G WIFI 11A Note

OC		MATIT	IIM						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.72	24.91	38.35	40.51	30.79	68.20	-37.41	peak
2	1529.414	4.10	26.92	38.39	39.14	31.77	74.00	-42.23	peak
3	4417.841	7.07	34.59	35.78	37.22	43.10	68.20	-25.10	peak
4	8814.957	11.60	37.13	37.42	37.55	48.86	68.20	-19.34	peak
5	p10360.000	12.73	37.10	37.54	38.21	50.50	68.20	-17.70	peak
6	15540.000	14.23	41.10	37.23	34.42	52.52	74.00	-21.48	peak



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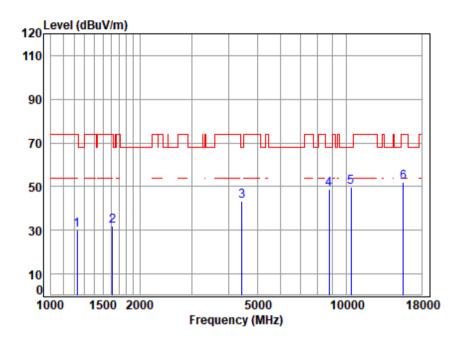


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5200 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	3.63	24.79	38.34	39.92	30.00	74.00	-44.00	peak
2	1615.754	4.22	26.64	38.40	39.53	31.99	74.00	-42.01	peak
3	4430.628	7.08	34.43	35.77	37.48	43.22	68.20	-24.98	peak
4	8738.852	11.47	36.90	37.35	37.89	48.91	68.20	-19.29	peak
5	p10400.000	12.74	37.10	37.56	37.49	49.77	68.20	-18.43	peak
6	15600.000	14.25	41.10	37.26	33.86	51.95	74.00	-22.05	peak



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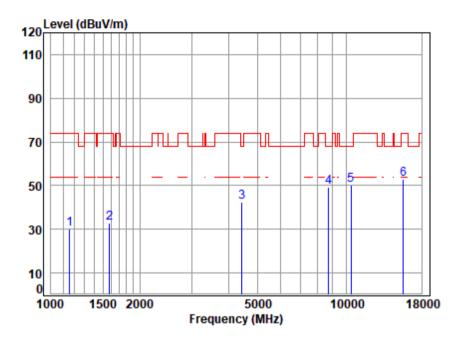


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5200 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
			,	-					
1	1155.483	3.50	23.95	38.33	41.12	30.24	74.00	-43.76	peak
2	1578.822	4.17	26.88	38.40	40.07	32.72	74.00	-41.28	peak
3	4430.628	7.08	34.43	35.77	36.53	42.27	68.20	-25.93	peak
4	8713.630	11.42	36.90	37.32	38.07	49.07	68.20	-19.13	peak
5	p10400.000	12.74	37.10	37.56	37.70	49.98	68.20	-18.22	peak
6	15600.000	14.25	41.10	37.26	34.96	53.05	74.00	-20.95	peak



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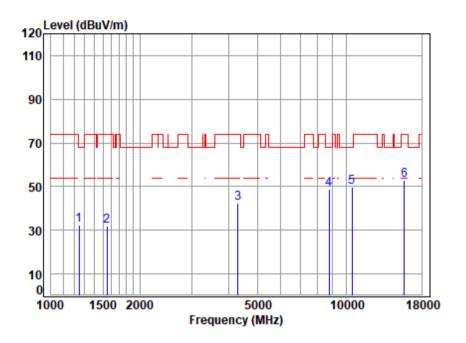


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5240 TX RSE Note : 5G WIFI 11A

	****	110						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1245.663	3.66	25.04	38.35	41.96	32.31	68.20	-35.89	peak
1547.199	4.13	26.99	38.39	39.09	31.82	74.00	-42.18	peak
4304.400	6.99	34.04	35.87	37.34	42.50	74.00	-31.50	peak
8764.146	11.51	36.96	37.37	37.65	48.75	68.20	-19.45	peak
p10480.000	12.76	37.26	37.60	37.33	49.75	68.20	-18.45	peak
15720.000	14.29	41.22	37.31	34.67	52.87	74.00	-21.13	peak
	MHz 1245.663 1547.199 4304.400 8764.146 p10480.000	Freq Loss MHz dB 1245.663 3.66 1547.199 4.13 4304.400 6.99 8764.146 11.51 p10480.000 12.76	Freq Loss Factor MHz dB dB/m 1245.663 3.66 25.04 1547.199 4.13 26.99 4304.400 6.99 34.04 8764.146 11.51 36.96 p10480.000 12.76 37.26	Freq Loss Factor Factor MHz dB dB/m dB 1245.663 3.66 25.04 38.35 1547.199 4.13 26.99 38.39 4304.400 6.99 34.04 35.87 8764.146 11.51 36.96 37.37 p10480.000 12.76 37.26 37.60	Freq Loss Factor Factor Level MHz dB dB/m Level MHz dB dBuV 1245.663 3.66 25.04 38.35 41.96 1547.199 4.13 26.99 38.39 39.09 4304.400 6.99 34.04 35.87 37.34 8764.146 11.51 36.96 37.37 37.65 p10480.000 12.76 37.26 37.60 37.33	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1245.663 3.66 25.04 38.35 41.96 32.31 1547.199 4.13 26.99 38.39 39.09 31.82 4304.400 6.99 34.04 35.87 37.34 42.50 8764.146 11.51 36.96 37.37 37.65 48.75 p10480.000 12.76 37.26 37.60 37.33 49.75	Freq Loss Factor Factor Level Level Line MHz	1245.663 3.66 25.04 38.35 41.96 32.31 68.20 -35.89 1547.199 4.13 26.99 38.39 39.09 31.82 74.00 -42.18



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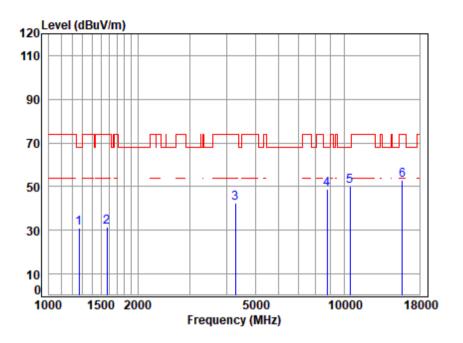


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5240 TX RSE Note : 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
5 p	1267.454 1574.265 4291.977 8738.852 10480.000 15720.000	4.17 6.99 11.47 12.76	26.90 33.97 36.90 37.26	38.40 35.88 37.35 37.60	38.91 37.33 37.75 37.72	31.58 42.41 48.77 50.14	74.00 74.00 68.20 68.20	-42.42 -31.59 -19.43 -18.06	peak peak peak peak



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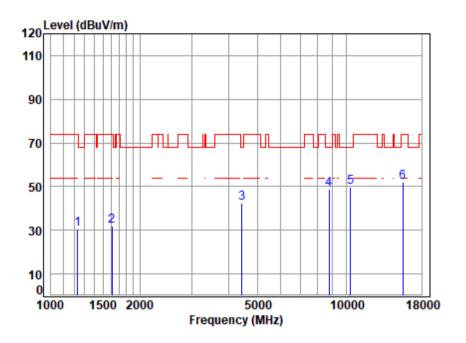


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5180 TX RSE · 5G WTFT 11ΔC20 Note

OL		MTLT	TIACZO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.64	24.84	38.35	40.53	30.66	74.00	-43.34	peak
2	1611.091	4.22	26.69	38.40	39.36	31.87	74.00	-42.13	peak
3	4430.628	7.08	34.43	35.77	36.73	42.47	68.20	-25.73	peak
4	8764.146	11.51	36.96	37.37	37.77	48.87	68.20	-19.33	peak
5	p10360.000	12.73	37.10	37.54	37.65	49.94	68.20	-18.26	peak
6	15540.000	14.23	41.10	37.23	34.11	52.21	74.00	-21.79	peak



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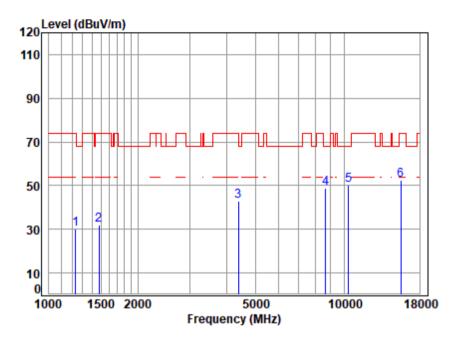


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

Page: 34 of 176

Test Mode: 01; Polarity: Vertical: Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5180 TX RSE Note : 5G WIFI 11AC20

~ ~ .		***	TIMELU						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.64	24.84	38.35	39.96	30.09	74.00	-43.91	peak
2	1477.276	4.03	26.16	38.38	40.19	32.00	74.00	-42.00	peak
3	4379.699	7.04	34.64	35.81	36.89	42.76	74.00	-31.24	peak
4	8663.404	11.33	36.90	37.27	37.69	48.65	68.20	-19.55	peak
5	p10360.000	12.73	37.10	37.54	37.96	50.25	68.20	-17.95	peak
6	15540.000	14.23	41.10	37.23	34.43	52.53	74.00	-21.47	peak



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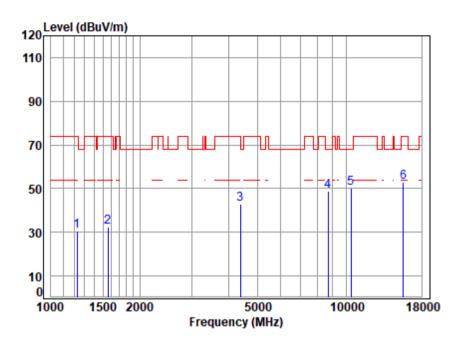


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5200 TX RSE

Note : 5G WIFI 11AC20

~ ~ ~		***	11/1020						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	3.63	24.79	38.34	40.40	30.48	74.00	-43.52	peak
2	1560.673	4.15	26.96	38.40	39.50	32.21	74.00	-41.79	peak
3	4379.699	7.04	34.64	35.81	36.80	42.67	74.00	-31.33	peak
4	8688.480	11.38	36.90	37.30	38.02	49.00	68.20	-19.20	peak
5	p10400.000	12.74	37.10	37.56	37.90	50.18	68.20	-18.02	peak
6	15600.000	14.25	41.10	37.26	34.68	52.77	74.00	-21.23	peak



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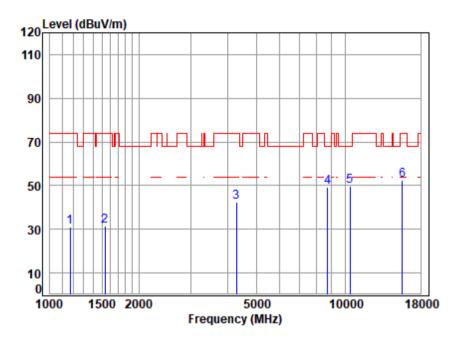


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Report No.: SZCR240400147803

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Test Mode: 01: Polarity: Vertical: Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5200 TX RSE Note : 5G WIFI 11AC20

Cable Ant Preamp Read Limit 0ver

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1168.920	3.53	24.09	38.33	41.52	30.81	74.00	-43.19	peak
2	1533.841	4.11	26.94	38.39	39.02	31.68	74.00	-42.32	peak
3	4291.977	6.99	33.97	35.88	37.29	42.37	74.00	-31.63	peak
4	8713.630	11.42	36.90	37.32	38.09	49.09	68.20	-19.11	peak
5	p10400.000	12.74	37.10	37.56	37.67	49.95	68.20	-18.25	peak
6	15600.000	14.25	41.10	37.26	34.25	52.34	74.00	-21.66	peak



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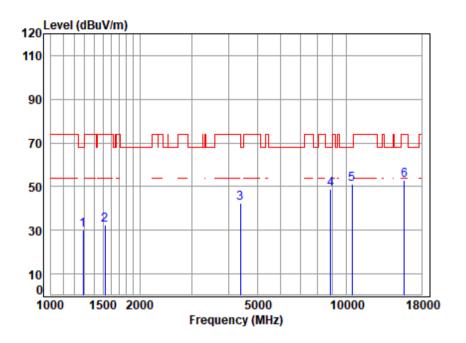


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5240 TX RSE

Note : 5G WIFI 11AC20

		****	TIMOLO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	3.73	24.88	38.35	39.69	29.95	68.20	-38.25	peak
2	1525.000	4.10	26.90	38.39	39.87	32.48	74.00	-41.52	peak
3	4392.376	7.05	34.74	35.80	36.42	42.41	74.00	-31.59	peak
4	8840.473	11.64	37.18	37.45	37.27	48.64	68.20	-19.56	peak
	p10480.000								
6	15720.000	14.29	41.22	37.31	34.65	52.85	74.00	-21.15	peak



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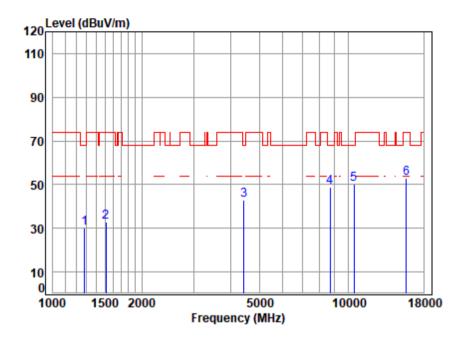


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5240 TX RSE

Note : 5G WIFI 11AC20

	***	TIMELU						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1282.193	3.72	24.91	38.35	39.90	30.18	68.20	-38.02	peak
1511.833	4.08	26.85	38.39	40.17	32.71	74.00	-41.29	peak
4430.628	7.08	34.43	35.77	37.18	42.92	68.20	-25.28	peak
8688.480	11.38	36.90	37.30	37.78	48.76	68.20	-19.44	peak
p10480.000	12.76	37.26	37.60	37.55	49.97	68.20	-18.23	peak
15720.000	14.29	41.22	37.31	34.90	53.10	74.00	-20.90	peak
	MHz 1282.193 1511.833 4430.628 8688.480 p10480.000	Freq Loss MHz dB 1282.193 3.72 1511.833 4.08 4430.628 7.08 8688.480 11.38 p10480.000 12.76	Freq Loss Factor MHz dB dB/m 1282.193 3.72 24.91 1511.833 4.08 26.85 4430.628 7.08 34.43 8688.480 11.38 36.90 p10480.000 12.76 37.26	Freq Loss Factor Factor MHz dB dB/m dB 1282.193 3.72 24.91 38.35 1511.833 4.08 26.85 38.39 4430.628 7.08 34.43 35.77 8688.480 11.38 36.90 37.30 p10480.000 12.76 37.26 37.60	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1282.193 3.72 24.91 38.35 39.90 1511.833 4.08 26.85 38.39 40.17 4430.628 7.08 34.43 35.77 37.18 8688.480 11.38 36.90 37.30 37.78 p10480.000 12.76 37.26 37.60 37.55	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1282.193 3.72 24.91 38.35 39.90 30.18 1511.833 4.08 26.85 38.39 40.17 32.71 4430.628 7.08 34.43 35.77 37.18 42.92 8688.480 11.38 36.90 37.30 37.78 48.76 p10480.000 12.76 37.26 37.60 37.55 49.97	Freq Loss Factor Factor Level Level Line MHz dB dB/m Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1282.193 3.72 24.91 38.35 39.90 30.18 68.20 1511.833 4.08 26.85 38.39 40.17 32.71 74.00 4430.628 7.08 34.43 35.77 37.18 42.92 68.20 8688.480 11.38 36.90 37.30 37.78 48.76 68.20 p10480.000 12.76 37.26 37.60 37.55 49.97 68.20	1282.193 3.72 24.91 38.35 39.90 30.18 68.20 -38.02 1511.833 4.08 26.85 38.39 40.17 32.71 74.00 -41.29



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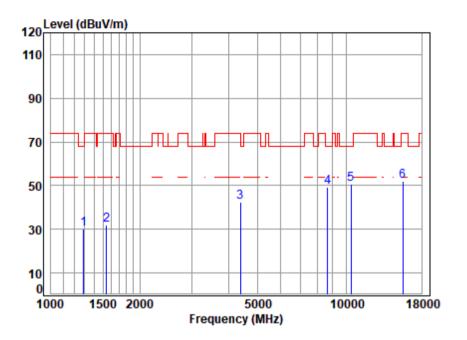


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5190 TX RSE

Note : 5G WIFI 11AC40

~ ~ .		***	11/10/10						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1289.627	3.74	24.86	38.36	40.01	30.25	68.20	-37.95	peak
2	1542.733	4.12	26.97	38.39	39.46	32.16	74.00	-41.84	peak
3	4379.699	7.04	34.64	35.81	36.35	42.22	74.00	-31.78	peak
4	8663.404	11.33	36.90	37.27	38.16	49.12	68.20	-19.08	peak
5	p10380.000	12.74	37.10	37.55	38.34	50.63	68.20	-17.57	peak
6	15570.000	14.24	41.10	37.25	33.90	51.99	74.00	-22.01	peak



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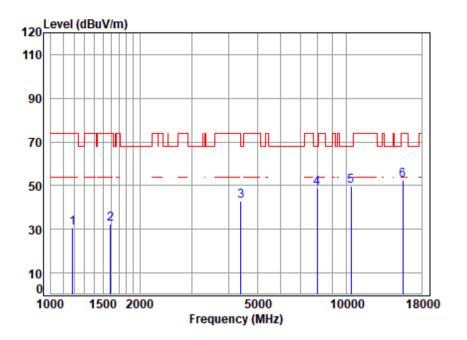


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical: Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01478AT Job No Mode : 5190 TX RSE

Note : 5G WIFI 11AC40

~ ~ .		***	11/10/10						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	3.55	24.23	38.34	41.15	30.59	74.00	-43.41	peak
2	1592.571	4.19	26.83	38.40	39.58	32.20	74.00	-41.80	peak
3	4405.090	7.06	34.74	35.79	36.72	42.73	68.20	-25.47	peak
4	7966.832	10.06	36.40	36.53	39.04	48.97	68.20	-19.23	peak
5	p10380.000	12.74	37.10	37.55	37.55	49.84	68.20	-18.36	peak
6	15570.000	14.24	41.10	37.25	34.59	52.68	74.00	-21.32	peak



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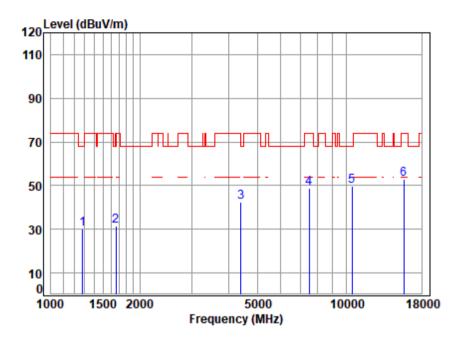


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5230 TX RSE Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.72	24.91	38.35	39.91	30.19	68.20	-38.01	peak
2	1663.137	4.28	26.27	38.41	39.29	31.43	74.00	-42.57	peak
3	4405.090	7.06	34.74	35.79	36.45	42.46	68.20	-25.74	peak
4	7497.646	9.53	36.10	36.08	39.10	48.65	74.00	-25.35	peak
5	p10460.000	12.76	37.22	37.59	37.29	49.68	68.20	-18.52	peak
	15690.000								•



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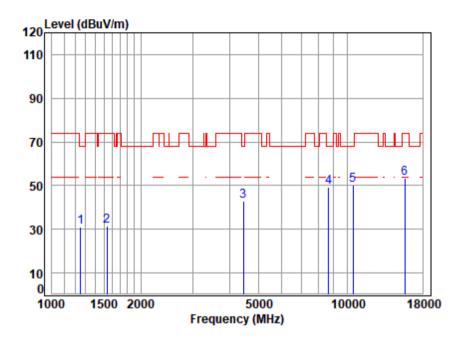


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5230 TX RSE

: 5G WIFI 11AC40 Note

00		MATIT	TIACTO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	40.47	30.87	68.20	-37.33	peak
2	1538.281	4.12	26.95	38.39	38.94	31.62	74.00	-42.38	peak
3	4456.315	7.09	34.12	35.76	37.58	43.03	68.20	-25.17	peak
4	8663.404	11.33	36.90	37.27	38.10	49.06	68.20	-19.14	peak
5	p10460.000	12.76	37.22	37.59	37.87	50.26	68.20	-17.94	peak
6	15690.000	14.28	41.19	37.30	35.01	53.18	74.00	-20.82	peak



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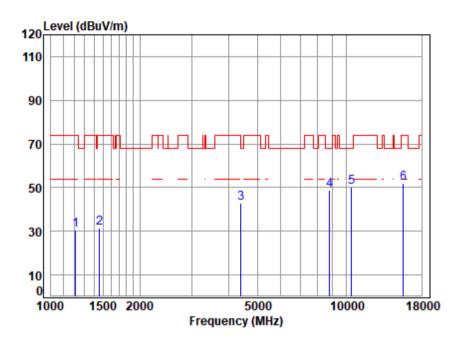


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5210 TX RSE

Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	3.61	24.59	38.34	40.55	30.41	74.00	-43.59	peak
2	1460.295	4.00	25.69	38.38	40.11	31.42	74.00	-42.58	peak
3	4405.090	7.06	34.74	35.79	36.96	42.97	68.20	-25.23	peak
4	8789.516	11.55	37.06	37.40	37.40	48.61	68.20	-19.59	peak
5	p10420.000	12.75	37.14	37.57	37.99	50.31	68.20	-17.89	peak
6	15630.000	14.26	41.13	37.27	33.99	52.11	74.00	-21.89	peak



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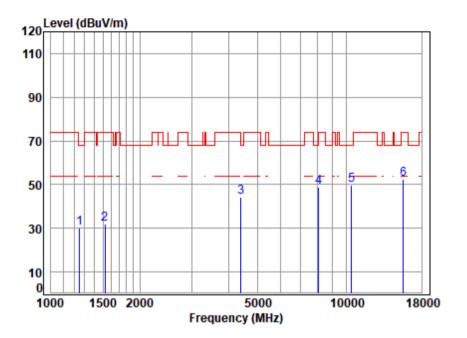


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01: Polarity: Vertical: Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5210 TX RSE

: 5G WIFI 11AC80 Note

00		MATIT	TIACOU						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	39.60	30.00	68.20	-38.20	peak
2	1525.000	4.10	26.90	38.39	39.50	32.11	74.00	-41.89	peak
3	4405.090	7.06	34.74	35.79	38.14	44.15	68.20	-24.05	peak
4	8082.804	10.26	36.47	36.65	38.65	48.73	74.00	-25.27	peak
5	p10420.000	12.75	37.14	37.57	37.47	49.79	68.20	-18.41	peak
6	15630.000	14.26	41.13	37.27	34.29	52.41	74.00	-21.59	peak



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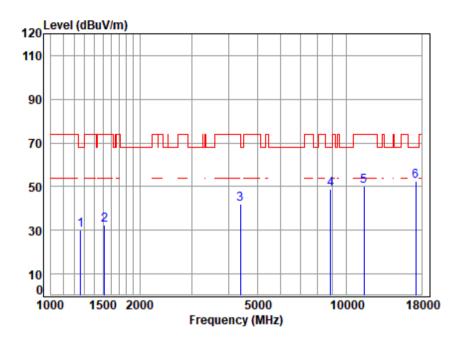


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5745 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	39.96	30.34	68.20	-37.86	peak
2	1516.210	4.08	26.86	38.39	39.96	32.51	74.00	-41.49	peak
3	4379.699	7.04	34.64	35.81	36.26	42.13	74.00	-31.87	peak
4	8840.473	11.64	37.18	37.45	37.40	48.77	68.20	-19.43	peak
5	11490.000	13.00	37.79	37.69	37.22	50.32	74.00	-23.68	peak
	p17235.000								



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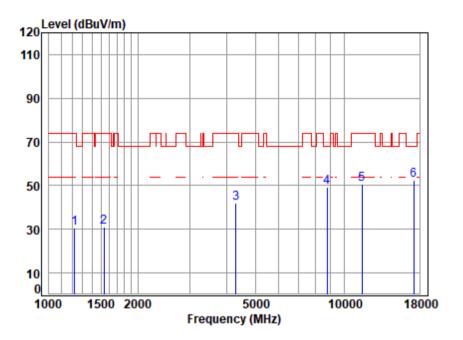


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Report No.: SZCR240400147803

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Test Mode: 04: Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5745 TX RSE Note : 5G WIFI 11A

000		****	110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	3.62	24.69	38.34	40.71	30.68	74.00	-43.32	peak
2	1533.841	4.11	26.94	38.39	38.49	31.15	74.00	-42.85	peak
3	4304.400	6.99	34.04	35.87	36.97	42.13	74.00	-31.87	peak
4	8764.146	11.51	36.96	37.37	38.28	49.38	68.20	-18.82	peak
5	11490.000	13.00	37.79	37.69	37.54	50.64	74.00	-23.36	peak
6	p17235.000	14.70	43.03	37.55	32.14	52.32	68.20	-15.88	peak



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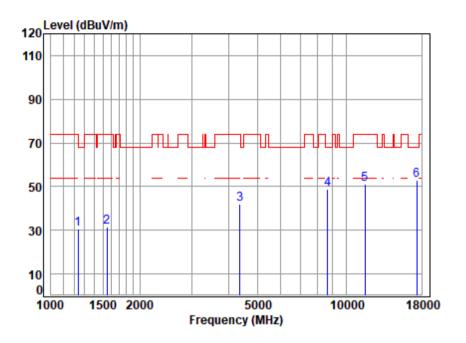


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

Page: 47 of 176

Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5785 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	40.42	30.60	74.00	-43.40	peak
2	1547.199	4.13	26.99	38.39	38.85	31.58	74.00	-42.42	peak
3	4367.058	7.04	34.54	35.82	36.33	42.09	74.00	-31.91	peak
4	8638.399	11.29	36.90	37.24	37.93	48.88	68.20	-19.32	peak
5	11570.000	13.01	37.73	37.67	38.02	51.09	74.00	-22.91	peak
	p17355.000								



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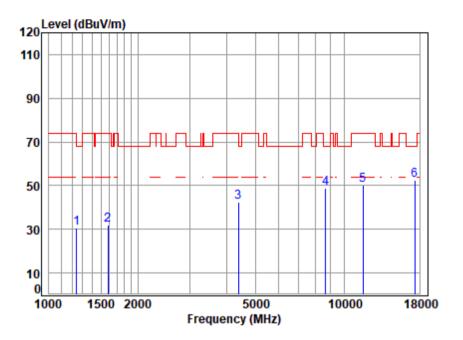


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5785 TX RSE Note : 5G WIFI 11A

	****	110						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1242.068	3.66	24.99	38.35	40.11	30.41	68.20	-37.79	peak
1583.392	4.18	26.87	38.40	39.41	32.06	74.00	-41.94	peak
4392.376	7.05	34.74	35.80	36.38	42.37	74.00	-31.63	peak
8663.404	11.33	36.90	37.27	38.07	49.03	68.20	-19.17	peak
11570.000	13.01	37.73	37.67	37.12	50.19	74.00	-23.81	peak
	MHz 1242.068 1583.392 4392.376 8663.404 11570.000	Freq Loss MHz dB 1242.068 3.66 1583.392 4.18 4392.376 7.05 8663.404 11.33 11570.000 13.01	Freq Loss Factor MHz dB dB/m 1242.068 3.66 24.99 1583.392 4.18 26.87 4392.376 7.05 34.74 8663.404 11.33 36.90 11570.000 13.01 37.73	Freq Loss Factor Factor MHz dB dB/m dB 1242.068 3.66 24.99 38.35 1583.392 4.18 26.87 38.40 4392.376 7.05 34.74 35.80 8663.404 11.33 36.90 37.27 1570.000 13.01 37.73 37.67	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1242.068 3.66 24.99 38.35 40.11 1583.392 4.18 26.87 38.40 39.41 4392.376 7.05 34.74 35.80 36.38 8663.404 11.33 36.90 37.27 38.07 11570.000 13.01 37.73 37.67 37.12	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1242.068 3.66 24.99 38.35 40.11 30.41 1583.392 4.18 26.87 38.40 39.41 32.06 4392.376 7.05 34.74 35.80 36.38 42.37 8663.404 11.33 36.90 37.27 38.07 49.03 11570.000 13.01 37.73 37.67 37.12 50.19	Freq Loss Factor Factor Level Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m 1242.068 3.66 24.99 38.35 40.11 30.41 68.20 1583.392 4.18 26.87 38.40 39.41 32.06 74.00 4392.376 7.05 34.74 35.80 36.38 42.37 74.00 8663.404 11.33 36.90 37.27 38.07 49.03 68.20 11570.000 13.01 37.73 37.67 37.12 50.19 74.00	1242.068 3.66 24.99 38.35 40.11 30.41 68.20 -37.79 1583.392 4.18 26.87 38.40 39.41 32.06 74.00 -41.94



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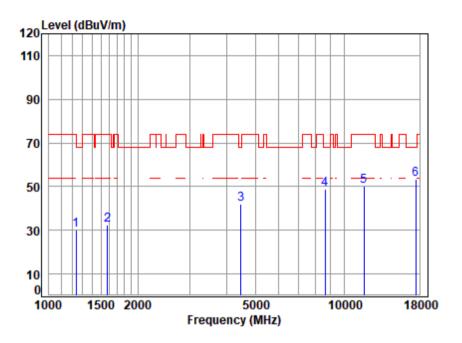


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

Page: 49 of 176

Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5825 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.65	24.94	38.35	39.66	29.90	74.00	-44.10	peak
2	1578.822	4.17	26.88	38.40	39.62	32.27	74.00	-41.73	peak
3	4469.214	7.10	33.97	35.75	36.74	42.06	68.20	-26.14	peak
4	8613.468	11.24	36.90	37.22	37.80	48.72	68.20	-19.48	peak
5	11650.000	13.03	37.80	37.65	36.82	50.00	74.00	-24.00	peak
	p17475.000								



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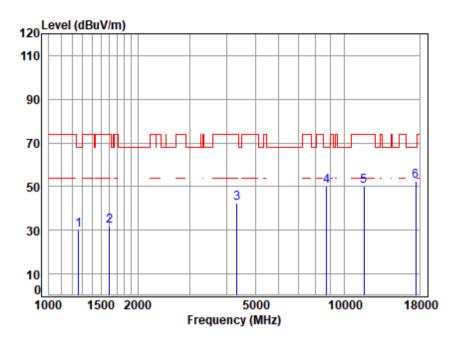


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

Page: 50 of 176

Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01478AT Job No

Mode : 5825 TX RSE Note : 5G WIFI 11A

	****	117						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1260.149	3.69	25.04	38.35	39.79	30.17	68.20	-38.03	peak
1601.804	4.20	26.78	38.40	39.13	31.71	74.00	-42.29	peak
4341.886	7.02	34.34	35.84	36.77	42.29	74.00	-31.71	peak
8713.630	11.42	36.90	37.32	38.96	49.96	68.20	-18.24	peak
11650.000	13.03	37.80	37.65	37.09	50.27	74.00	-23.73	peak
p17475.000	14.84	43.40	37.58	31.88	52.54	68.20	-15.66	peak
	MHz 1260.149 1601.804 4341.886 8713.630 11650.000	Freq Loss MHz dB 1260.149 3.69 1601.804 4.20 4341.886 7.02 8713.630 11.42 11650.000 13.03	Freq Loss Factor MHz dB dB/m 1260.149 3.69 25.04 1601.804 4.20 26.78 4341.886 7.02 34.34 8713.630 11.42 36.90 11650.000 13.03 37.80	Freq Loss Factor Factor MHz dB dB/m dB 1260.149 3.69 25.04 38.35 1601.804 4.20 26.78 38.40 4341.886 7.02 34.34 35.84 8713.630 11.42 36.90 37.32 11650.000 13.03 37.80 37.65	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1260.149 3.69 25.04 38.35 39.79 1601.804 4.20 26.78 38.40 39.13 4341.886 7.02 34.34 35.84 36.77 8713.630 11.42 36.90 37.32 38.96 11650.000 13.03 37.80 37.65 37.09	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1260.149 3.69 25.04 38.35 39.79 30.17 1601.804 4.20 26.78 38.40 39.13 31.71 4341.886 7.02 34.34 35.84 36.77 42.29 8713.630 11.42 36.90 37.32 38.96 49.96 11650.000 13.03 37.80 37.65 37.09 50.27	Freq Loss Factor Factor Level Level Line MHz dB dB/m Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1260.149 3.69 25.04 38.35 39.79 30.17 68.20 1601.804 4.20 26.78 38.40 39.13 31.71 74.00 4341.886 7.02 34.34 35.84 36.77 42.29 74.00 8713.630 11.42 36.90 37.32 38.96 49.96 68.20 11650.000 13.03 37.80 37.65 37.09 50.27 74.00	Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1260.149 3.69 25.04 38.35 39.79 30.17 68.20 -38.03 1601.804 4.20 26.78 38.40 39.13 31.71 74.00 -42.29 4341.886 7.02 34.34 35.84 36.77 42.29 74.00 -31.71 8713.630 11.42 36.90 37.32 38.96 49.96 68.20 -18.24 11650.000 13.03 37.80 37.65 37.09 50.27 74.00 -23.73 p17475.000 14.84 43.40 37.58 31.88 52.54 68.20 -15.66



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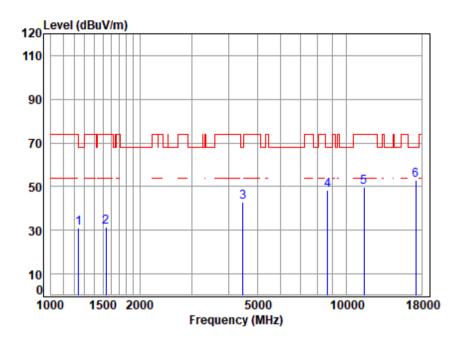


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5745 TX RSE

Note : 5G WIFI 11AC20

		****	TIMELU						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.66	24.99	38.35	40.67	30.97	68.20	-37.23	peak
2	1538.281	4.12	26.95	38.39	39.03	31.71	74.00	-42.29	peak
3	4469.214	7.10	33.97	35.75	37.52	42.84	68.20	-25.36	peak
4	8663.404	11.33	36.90	37.27	37.58	48.54	68.20	-19.66	peak
5	11490.000	13.00	37.79	37.69	36.71	49.81	74.00	-24.19	peak
6	17235.000	14.70	43.03	37.55	32.68	52.86	68.20	-15.34	peak



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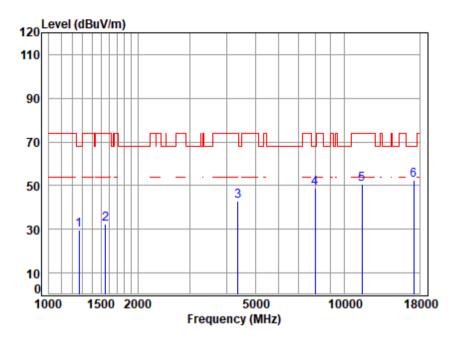


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

Page: 52 of 176

Test Mode: 04: Polarity: Vertical: Modulation:802.11ac: Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5745 TX RSE Note : 5G WIFI 11AC20

~ ~ ~		****	TIMOLO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1267.454	3.70	25.00	38.35	39.44	29.79	68.20	-38.41	peak
2	1551.677	4.13	26.99	38.40	39.53	32.25	74.00	-41.75	peak
3	4367.058	7.04	34.54	35.82	37.00	42.76	74.00	-31.24	peak
4	7989.893	10.09	36.40	36.55	38.87	48.81	68.20	-19.39	peak
5	11490.000	13.00	37.79	37.69	37.57	50.67	74.00	-23.33	peak
	p17235.000								



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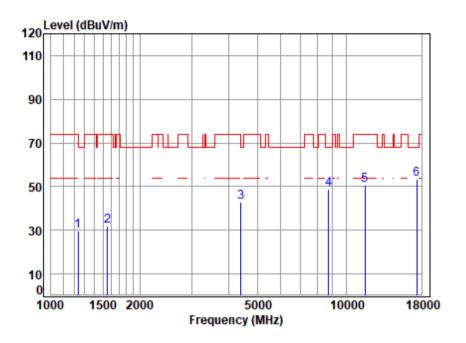


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

Page: 53 of 176

Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5785 TX RSE

Note : 5G WIFI 11AC20

	****	TINCEO						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1238.483	3.65	24.94	38.35	39.44	29.68	74.00	-44.32	peak
1556.169	4.14	26.98	38.40	39.31	32.03	74.00	-41.97	peak
4405.090	7.06	34.74	35.79	36.87	42.88	68.20	-25.32	peak
8713.630	11.42	36.90	37.32	37.65	48.65	68.20	-19.55	peak
11570.000	13.01	37.73	37.67	37.36	50.43	74.00	-23.57	peak
p17355.000	14.77	43.26	37.56	32.69	53.16	68.20	-15.04	peak
	Freq MHz 1238.483 1556.169 4405.090 8713.630 11570.000	Cable Loss MHz dB 1238.483 3.65 1556.169 4.14 4405.090 7.06 8713.630 11.42 11570.000 13.01	Cable Ant Loss Factor MHz dB dB/m 1238.483 3.65 24.94 1556.169 4.14 26.98 4405.090 7.06 34.74 8713.630 11.42 36.90 11570.000 13.01 37.73	Cable Ant Preamp Loss Factor Factor MHz dB dB/m dB 1238.483 3.65 24.94 38.35 1556.169 4.14 26.98 38.40 4405.090 7.06 34.74 35.79 8713.630 11.42 36.90 37.32 11570.000 13.01 37.73 37.67	Cable Loss Factor Factor Read Level MHz dB dB/m dB dBuV 1238.483 3.65 24.94 38.35 39.44 1556.169 4.14 26.98 38.40 39.31 4405.090 7.06 34.74 35.79 36.87 8713.630 11.42 36.90 37.32 37.65 11570.000 13.01 37.73 37.67 37.36	Cable Ant Preamp Read Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1238.483 3.65 24.94 38.35 39.44 29.68 1556.169 4.14 26.98 38.40 39.31 32.03 4405.090 7.06 34.74 35.79 36.87 42.88 8713.630 11.42 36.90 37.32 37.65 48.65 11570.000 13.01 37.73 37.67 37.36 50.43	Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1238.483 3.65 24.94 38.35 39.44 29.68 74.00 1556.169 4.14 26.98 38.40 39.31 32.03 74.00 4405.090 7.06 34.74 35.79 36.87 42.88 68.20 8713.630 11.42 36.90 37.32 37.65 48.65 68.20 11570.000 13.01 37.73 37.67 37.36 50.43 74.00	Cable Loss Factor Factor Read Level Level Limit Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1238.483 3.65 24.94 38.35 39.44 29.68 74.00 -44.32



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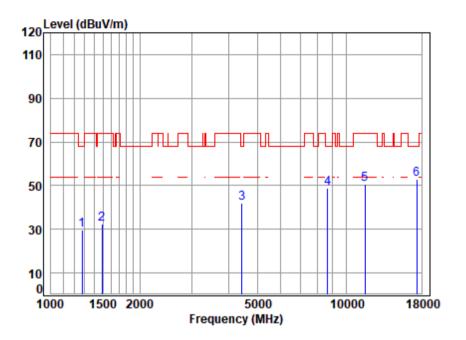


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

Page: 54 of 176

Test Mode: 04: Polarity: Vertical: Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 01478AT Job No

Mode : 5785 TX RSE

Note : 5G WIFI 11AC20

~ ~ ~		***	TIMELU						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	3.71	24.95	38.35	39.15	29.46	68.20	-38.74	peak
2	1490.142	4.05	26.52	38.39	40.33	32.51	74.00	-41.49	peak
3	4430.628	7.08	34.43	35.77	36.35	42.09	68.20	-26.11	peak
4	8663.404	11.33	36.90	37.27	37.79	48.75	68.20	-19.45	peak
5	11570.000	13.01	37.73	37.67	37.37	50.44	74.00	-23.56	peak
	p17355.000								



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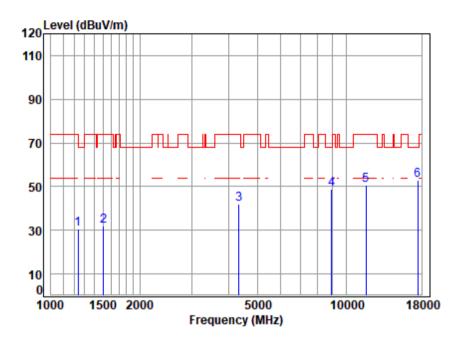


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5825 TX RSE Note : 5G WIFI 11AC20

		Capte	Ant	Preamp	Kead		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	1220 402	2 65	24.04	20 25	40.00	20 44	74.00	42 56	
1	1238.483	5.05	24.94	30.33	40.20	30.44	74.00	-43.30	peak
2	1507.470	4.07	26.83	38.39	39.26	31.77	74.00	-42.23	peak
3	4341.886	7.02	34.34	35.84	36.54	42.06	74.00	-31.94	peak
4	8917.462	11.78	37.13	37.53	37.23	48.61	68.20	-19.59	peak
5	11650.000	13.03	37.80	37.65	37.45	50.63	74.00	-23.37	peak
6	p17475.000	14.84	43.40	37.58	32.30	52.96	68.20	-15.24	peak



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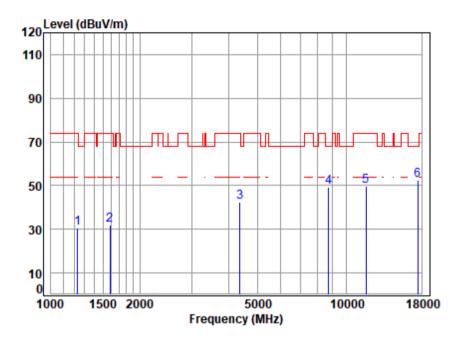


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

8713.630

11650.000

6 p17475.000

Mode : 5825 TX RSE : 5G WIFI 11AC20 Note

> Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1231.345 3.64 40.33 30.46 74.00 -43.54 peak 24.84 38.35 1583.392 4.18 38.40 39.51 32.16 74.00 -41.84 peak 26.87 7.04 4367.058 34.54 35.82 36.57 42.33 74.00 -31.67 peak

> > 36.71

14.84 43.40 37.58 31.63 52.29 68.20 -15.91 peak

11.42 36.90 37.32

37.80

37.65

13.03



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38.15 49.15 68.20 -19.05 peak

49.89 74.00 -24.11 peak

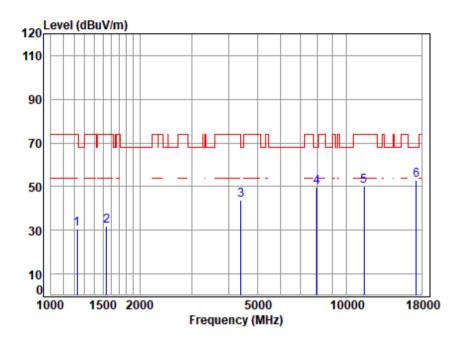


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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5755 TX RSE : 5G WIFI 11AC40 Note

> Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1227.791 3.63 40.42 30.50 74.00 -43.50 peak 24.79 38.34 1542.733 4.12 26.97 38.39 39.27 31.97 74.00 -42.03 peak 7.06 4405.090 34.74 35.79 37.86 43.87 68.20 -24.33 peak 7943.838 10.04 36.41 36.51 39.83 49.77 68.20 -18.43 peak 11510.000 37.79 37.69 37.29 50.39 74.00 -23.61 peak 13.00

> > 14.72 43.06 37.55



6 p17265.000

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32.92 53.15 68.20 -15.05 peak

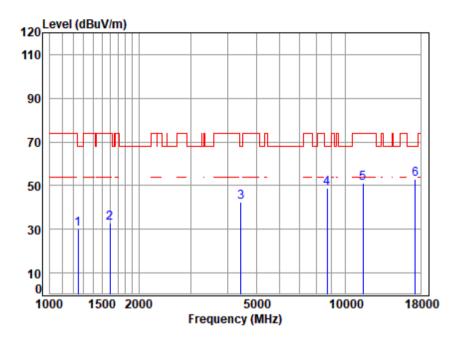


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Test Mode: 04: Polarity: Vertical: Modulation:802.11ac: Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5755 TX RSE Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	39.90	30.25	68.20	-37.95	peak
2	1597.181	4.20	26.81	38.40	40.32	32.93	74.00	-41.07	peak
3	4430.628	7.08	34.43	35.77	36.49	42.23	68.20	-25.97	peak
4	8688.480	11.38	36.90	37.30	37.90	48.88	68.20	-19.32	peak
	11510.000								•
	p17265.000								•



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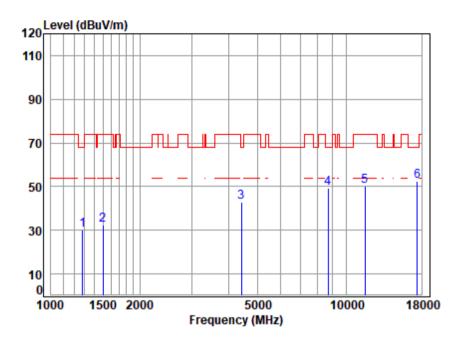


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Report No.: SZCR240400147803

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Test Mode: 04: Polarity: Horizontal: Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5795 TX RSE : 5G WIFI 11AC40 Note

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1278.492 3.72 24.93 38.35 39.78 30.08 68.20 -38.12 peak 1 1503.119 4.07 26.81 38.39 40.07 32.56 74.00 -41.44 peak 2 7.07 3 4417.841 34.59 35.78 36.80 42.68 68.20 -25.52 peak 8688.480 11.38 36.90 37.30 38.18 49.16 68.20 -19.04 peak 11590.000 37.71 37.00 50.05 74.00 -23.95 peak 13.01 37.67 32.08 52.65 68.20 -15.55 peak 6 p17385.000 14.79 43.35 37.57



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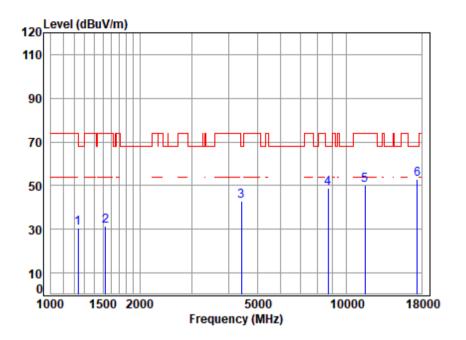


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Test Mode: 04: Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01478AT Job No

Mode : 5795 TX RSE

: 5G WIFI 11AC40 Note

occ		AATIT	TIACTO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.65	24.94	38.35	40.21	30.45	74.00	-43.55	peak
2	1529.414	4.10	26.92	38.39	38.97	31.60	74.00	-42.40	peak
3	4417.841	7.07	34.59	35.78	36.86	42.74	68.20	-25.46	peak
4	8688.480	11.38	36.90	37.30	37.89	48.87	68.20	-19.33	peak
5	11590.000	13.01	37.71	37.67	37.00	50.05	74.00	-23.95	peak
6	p17385.000	14.79	43.35	37.57	32.36	52.93	68.20	-15.27	peak



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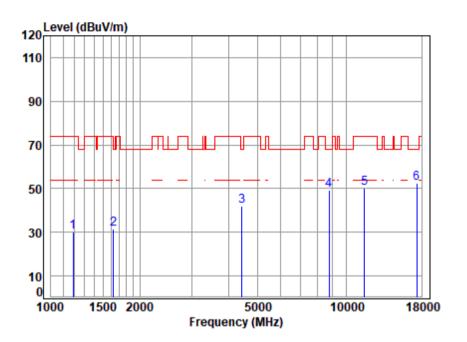


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Test Mode: 04: Polarity: Horizontal: Modulation:802.11ac: Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT

Mode : 5775 TX RSE : 5G WIFI 11AC80 Note

> Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1189.368 3.56 38.34 40.76 30.27 74.00 -43.73 peak 24.29 1629.825 4.24 26.50 38.41 39.29 31.62 68.20 -36.58 peak 7.08 36.23 41.97 68.20 -26.23 peak 4430.628 34.43 35.77 8738.852 11.47 36.90 37.35 38.20 49.22 68.20 -18.98 peak 11550.000 13.01 37.75 37.68 37.20 50.28 74.00 -23.72 peak 31.98 52.35 68.20 -15.85 peak

37.56



6 p17325.000

14.76 43.17

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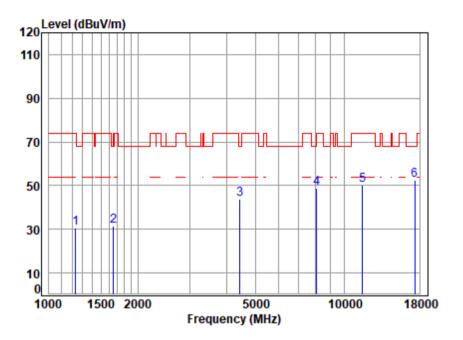


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Test Mode: 04: Polarity: Vertical: Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5775 TX RSE Note : 5G WIFI 11AC80

Cable Ant Preamp Read Limit 0ver

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.64	24.84	38.35	40.22	30.35	74.00	-43.65	peak
2	1653.550	4.27	26.29	38.41	39.43	31.58	68.20	-36.62	peak
3	4430.628	7.08	34.43	35.77	37.97	43.71	68.20	-24.49	peak
4	8082.804	10.26	36.47	36.65	38.80	48.88	74.00	-25.12	peak
5	11550.000	13.01	37.75	37.68	37.19	50.27	74.00	-23.73	peak
6	p17325.000	14.76	43.17	37.56	32.00	52.37	68.20	-15.83	peak



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7.5 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

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

- *(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge. and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.



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7.5.1 E.U.T. Operation

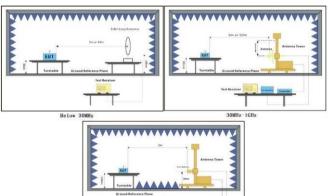
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 21.2 °C Humidity: 63.1 % RH

7.5.2 Test Mode Description

7.0.2 Test mode bescription								
Pre-scan / Final test	Mode Code	Description						
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.						
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.						

7.5.3 Test Setup Diagram





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7.5.4 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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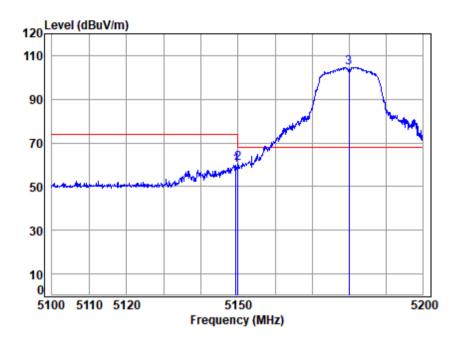


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

Page: 66 of 176

Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5180 Band edge

· 5G WIFT 11A

	. 50	MILT	TIM						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	7.55	33.90	35.31	53.58	59.72	74.00	-14.28	peak
	5149.980								-
	5180 000								•



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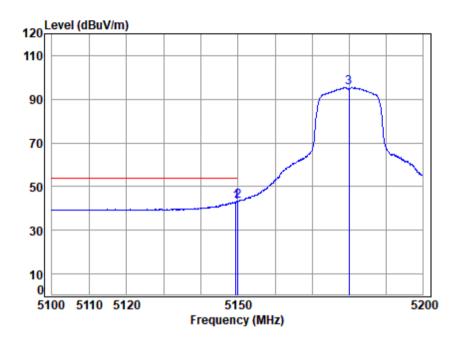


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5149.458 5149.980								_	
	5180.000								_	



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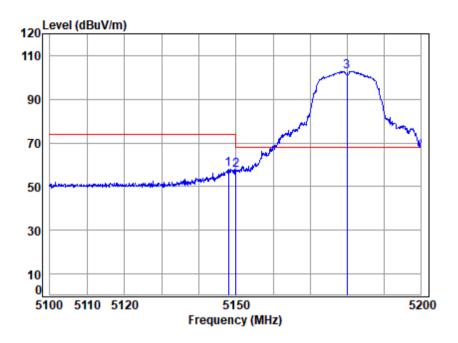


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.958	7.55	33.90	35.31	51.85	57.99	74.00	-16.01	Peak
2	5149.980	7.55	33.90	35.31	51.22	57.36	74.00	-16.64	Peak
3	p 5180.000	7.57	33.96	35.29	96.64	102.88	68.20	34.68	Peak



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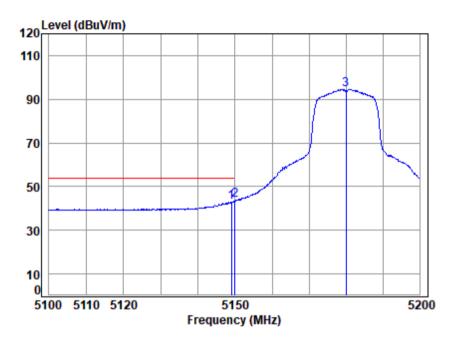


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01478AT Job No

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.057	7.55	33.90	35.31	36.97	43.11	54.00	-10.89	Average
2 q	5149.980	7.55	33.90	35.31	37.53	43.67	54.00	-10.33	Average
	5180.000								



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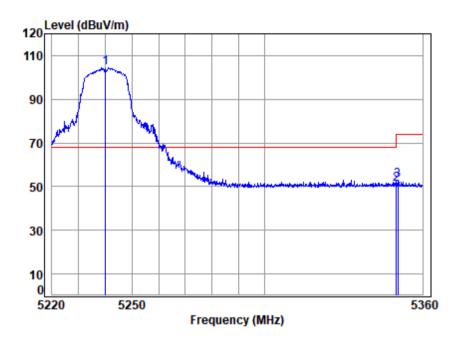


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5240 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5240.000 2 5350.020	7.70	34.40	35.21	44.08	50.97	74.00	-23.03	peak
3 5350.504	7.70	34.40	35.21	45.97	52.86	74.00	-21.14	peak



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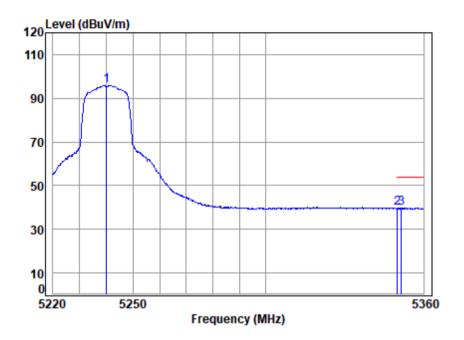


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.000	7.62	34.08	35.26	89.57	96.01			Average	
2	5350.020	7.70	34.40	35.21	32.65	39.54	54.00	-14.46	Average	
3 (5351.495	7.71	34.41	35.21	33.00	39.91	54.00	-14.09	Average	



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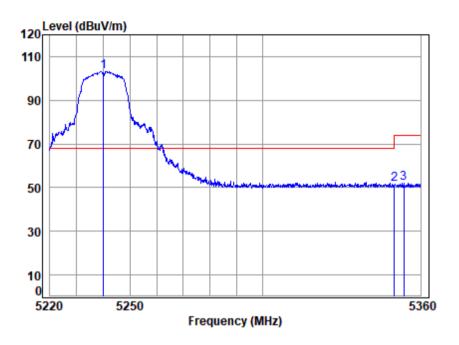


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

: 01478AT Job No

Mode : 5240 Band edge

· 5G WTFT 11Δ

	. 50	AATIT	114							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	5240.000	7.62	34.08	35.26	96.75	103.19	68.20	34.99	Peak	
2	5350.020	7.70	34.40	35.21	44.53	51.42	74.00	-22.58	Peak	
3	5353 620	7 71	3/ //1	35 21	11 99	51 90	7/ 00	-22 10	Poak	



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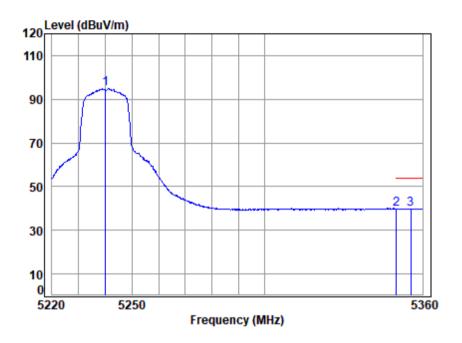


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL : 01478AT Job No

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.08	35.26	88.64	95.08			Average
2	5350.020	7.70	34.40	35.21	32.89	39.78	54.00	-14.22	Average
3 q	5355.462	7.71	34.42	35.21	32.95	39.87	54.00	-14.13	Average



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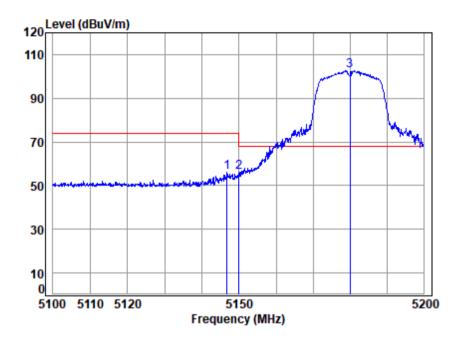


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.758	7.55	33.91	35.31	50.04	56.19	74.00	-17.81	peak
2	5149.980	7.55	33.90	35.31	49.88	56.02	74.00	-17.98	peak
3 p	5180.000	7.57	33.96	35.29	96.32	102.56	68.20	34.36	peak



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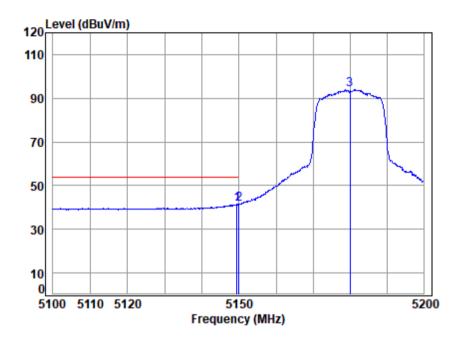


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.458	7.55	33.90	35.31	35.28	41.42	54.00	-12.58	Average	
2 q	5149.980	7.55	33.90	35.31	35.57	41.71	54.00	-12.29	Average	
3	5180.000	7.57	33.96	35.29	87.89	94.13			Average	



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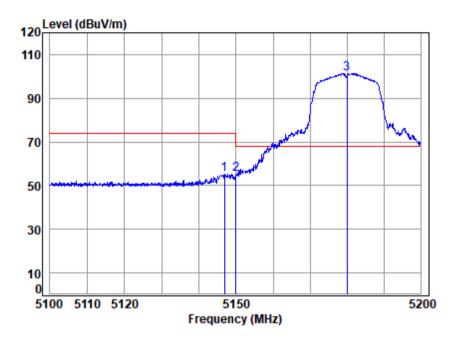


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical: Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 01478AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.858	7.55	33.91	35.31	49.24	55.39	74.00	-18.61	Peak
2	5149.980	7.55	33.90	35.31	49.02	55.16	74.00	-18.84	Peak
3 p	5180.000	7.57	33.96	35.29	95.25	101.49	68.20	33.29	Peak



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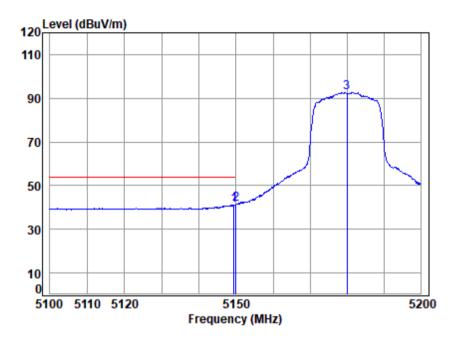


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical: Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL : 01478AT Job No

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.357	7.55	33.90	35.31	34.92	41.06	54.00	-12.94	Average
2 q	5149.980	7.55	33.90	35.31	35.43	41.57	54.00	-12.43	Average
3	5180.000	7.57	33.96	35.29	86.58	92.82			Average



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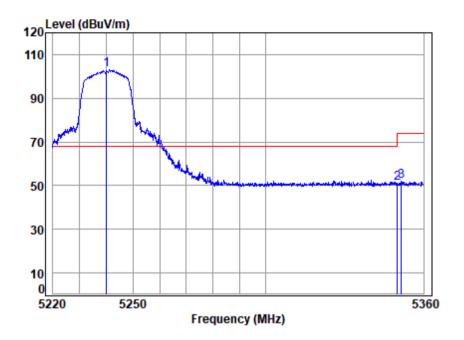


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

Page: 78 of 176

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5240.000								•
2	5350.020	7.70	34.40	35.21	44.44	51.33	74.00	-22.67	peak
3	5351.495	7.71	34.41	35.21	44.98	51.89	74.00	-22.11	peak



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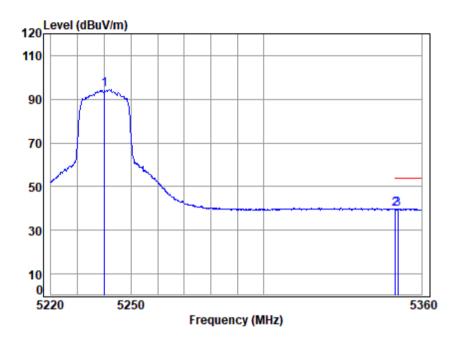


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.08	35.26	87.91	94.35			Average
2	5350.020	7.70	34.40	35.21	32.83	39.72	54.00	-14.28	Average
3 a	5350.929	7.71	34.40	35.21	33.02	39.92	54.00	-14.08	Average



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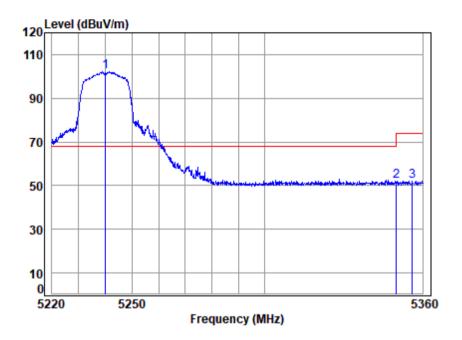


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 52	40.000	7.62	34.08	35.26	95.74	102.18	68.20	33.98	Peak
2 53	50.020	7.70	34.40	35.21	45.26	52.15	74.00	-21.85	Peak
3 53	56.029	7.71	34.42	35.21	45.08	52.00	74.00	-22.00	Peak



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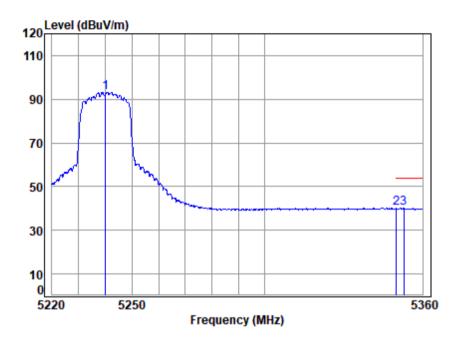


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 01478AT

Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5240.000	7.62	34.08	35.26	86.78	93.22			Average	
	5350.020	7.70	34.40	35.21	33.11	40.00	54.00	-14.00	Average	
q	5352.912	7.71	34.41	35.21	33.20	40.11	54.00	-13.89	Average	



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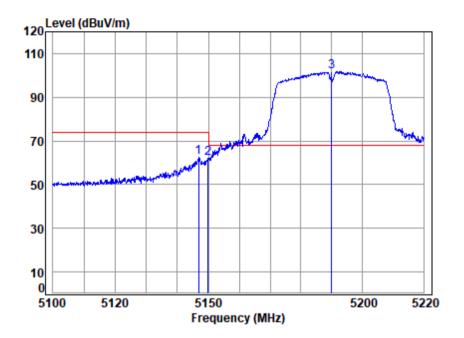


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5190 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.828	7.55	33.91	35.31	56.38	62.53	74.00	-11.47	peak
2	5149.980	7.55	33.90	35.31	55.79	61.93	74.00	-12.07	peak
3 p	5190.000	7.58	33.98	35.29	95.64	101.91	68.20	33.71	peak



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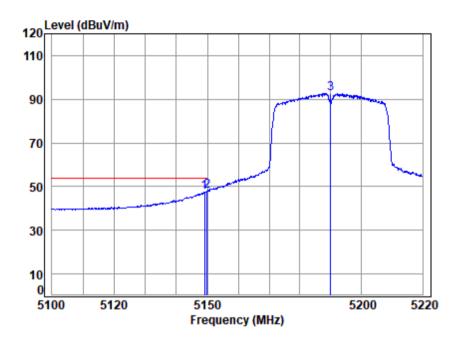


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5190 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5149.102	7.55	33.90	35.31	41.29	47.43	54.00	-6.57	Average	
2 q	5149.980	7.55	33.90	35.31	41.74	47.88	54.00	-6.12	Average	
3	5190.000	7.58	33.98	35.29	86.37	92.64			Average	



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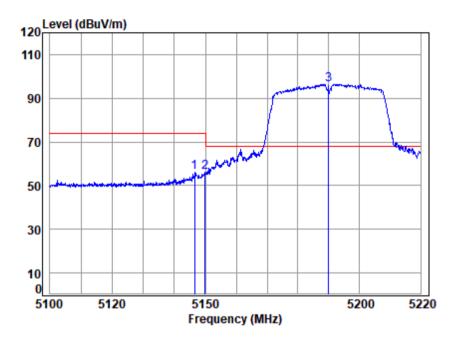


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical: Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01478AT Job No

Mode : 5190 Band edge

: 5G WIFI 11AC40

	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
5146.588	7.55	33.91	35.31	49.89	56.04	74.00	-17.96	Peak	
5149.980	7.55	33.90	35.31	49.87	56.01	74.00	-17.99	Peak	
5190.000	7.58	33.98	35.29	90.14	96.41	68.20	28.21	Peak	
	MHz 5146.588 5149.980	Freq Loss MHz dB 5146.588 7.55 5149.980 7.55	Freq Loss Factor MHz dB dB/m 5146.588 7.55 33.91 5149.980 7.55 33.90	Freq Loss Factor Factor MHz dB dB/m dB 5146.588 7.55 33.91 35.31 5149.980 7.55 33.90 35.31	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 5146.588 7.55 33.91 35.31 49.89 5149.980 7.55 33.90 35.31 49.87	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 5146.588 7.55 33.91 35.31 49.89 56.04 5149.980 7.55 33.90 35.31 49.87 56.01	Freq Loss Factor Factor Level Level Level Line MHz dB dB/m dB uV dBuV/m dBuV/m 5146.588 7.55 33.91 35.31 49.89 56.04 74.00 5149.980 7.55 33.90 35.31 49.87 56.01 74.00	MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 5146.588 7.55 33.91 35.31 49.89 56.04 74.00 -17.96 5149.980 7.55 33.90 35.31 49.87 56.01 74.00 -17.99	Freq Loss Factor Factor Level Level Line Limit Remark



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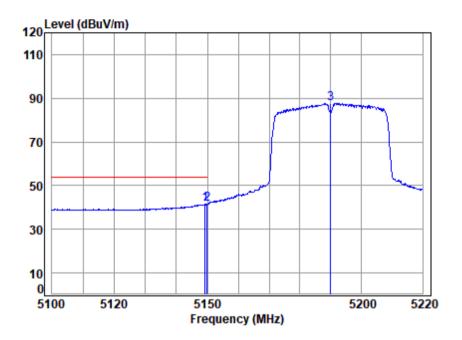


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical: Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01478AT Job No

Mode : 5190 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.222	7.55	33.90	35.31	35.25	41.39	54.00	-12.61	Average
2 q	5149.980	7.55	33.90	35.31	35.51	41.65	54.00	-12.35	Average
3	5190.000	7.58	33.98	35.29	81.43	87.70			Average



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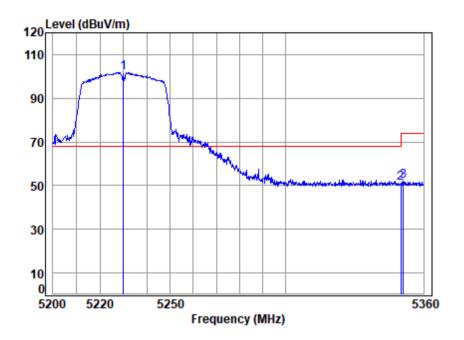


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5230 Band edge

· 5G WTFT 11ΔC40

	. 50	****	1170-0						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5230.000	7.61	34.06	35.27	95.35	101.75	68.20	33.55	peak
2	5350.020	7.70	34.40	35.21	44.23	51.12	74.00	-22.88	peak
2	5351 073	7 71	3/ //	35 21	11 93	51 83	7/ 00	_22 17	nook



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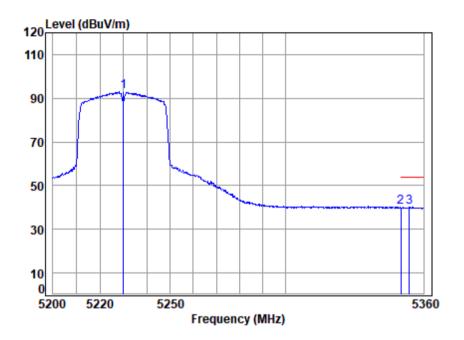


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5230 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.61	34.06	35.27	86.50	92.90			Average
2	5350.020	7.70	34.40	35.21	33.04	39.93	54.00	-14.07	Average
3 q	5353.669	7.71	34.41	35.21	33.18	40.09	54.00	-13.91	Average



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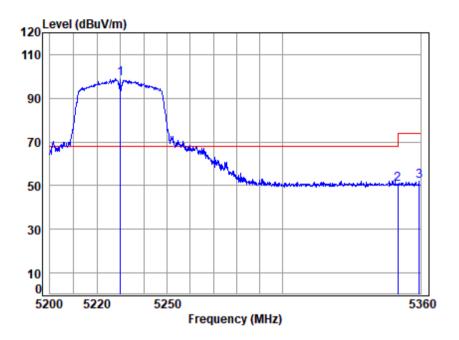


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01478AT Job No

Mode : 5230 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5230.000	7.61	34.06	35.27	92.76	99.16	68.20	30.96	Peak
2	5350.020	7.70	34.40	35.21	43.93	50.82	74.00	-23.18	Peak
3	5359.350	7.71	34.44	35.20	45.11	52.06	74.00	-21.94	Peak



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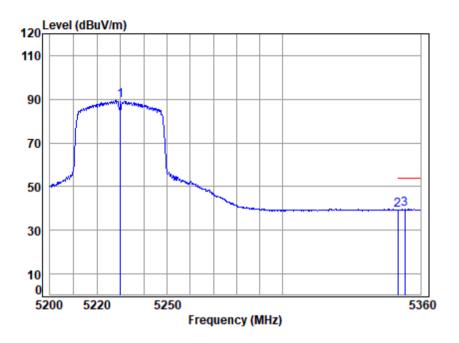


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5230 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.61	34.06	35.27	82.99	89.39			Average
2	5350.020	7.70	34.40	35.21	32.49	39.38	54.00	-14.62	Average
3 q	5353.182	7.71	34.41	35.21	32.74	39.65	54.00	-14.35	Average



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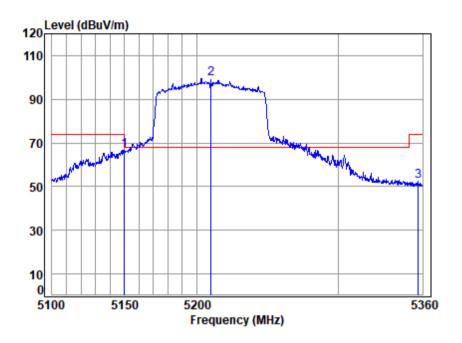


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.947	7.55	33.90	35.31	60.66	66.80	74.00	-7.20	peak
2 p	5210.000	7.60	34.02	35.28	93.15	99.49	68.20	31.29	peak
3	5357.069	7.71	34.43	35.20	45.62	52.56	74.00	-21.44	peak



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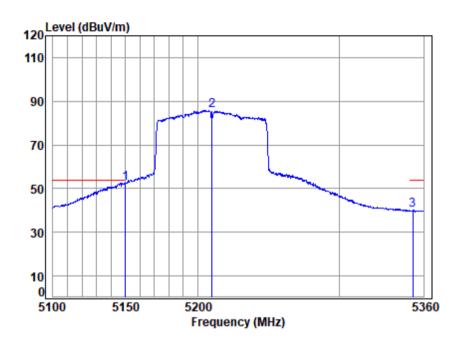


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Report No.: SZCR240400147803

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5210 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor						
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 q 5149.690 2 5210.000								_	
3 5352,276	7.71	34.41	35.21	33.35	40.26	54.00	-13.74	Average	



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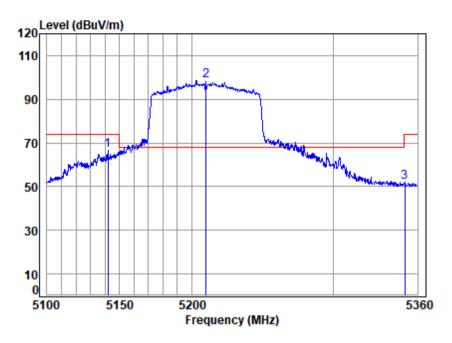


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Test Mode: 01: Polarity: Vertical: Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL : 01478AT Job No

Mode : 5210 Band edge

: 5G WIFI 11AC80

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5:	142.014	7.54	33.92	35.31	60.50	66.65	74.00	-7.35	Peak
2	p 5	210.000	7.60	34.02	35.28	92.26	98.60	68.20	30.40	Peak
3	5	350.680	7.71	34.40	35.21	45.34	52.24	74.00	-21.76	Peak



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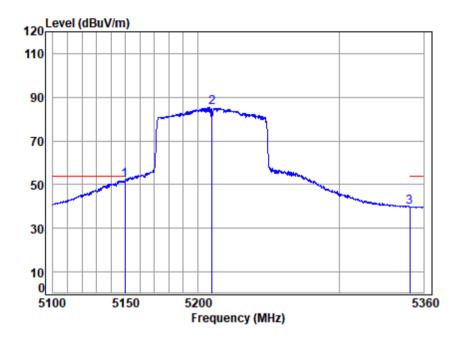


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Test Mode: 01: Polarity: Vertical: Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5210 Band edge

: 5G WIFI 11AC80

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5149.435	7.55	33.90	35.31	46.02	52.16	54.00	-1.84	Average
2 5210.000	7.60	34.02	35.28	78.96	85.30			Average
3 5350.148	7.70	34.40	35.21	33.01	39.90	54.00	-14.10	Average



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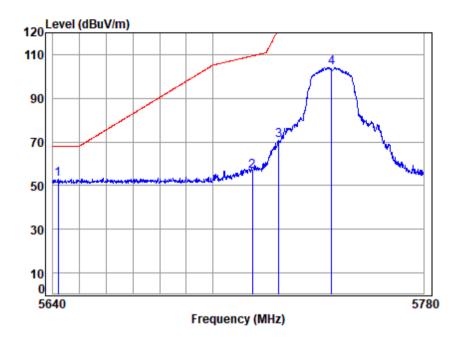


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5745 Band edge

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5641.937	7.92	34.45	35.07	45.78	53.08	68.20	-15.12	peak
2	5715.000	7.97	34.27	35.03	49.46	56.67	109.40	-52.73	peak
3	5725.000	7.98	34.25	35.03	63.63	70.83	122.20	-51.37	peak
4	5745.000	7.99	34.21	35.02	97.07	104.25			peak



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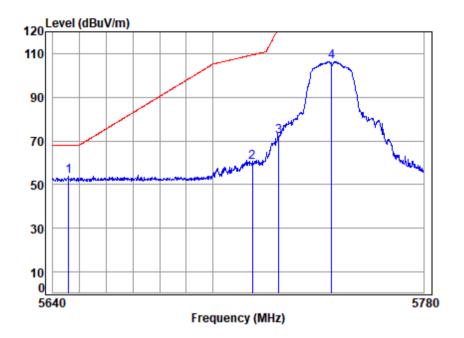


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Test Mode: 04: Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 01478AT

Mode : 5745 Band edge

: 5G WIFI 11A

	Frea			Preamp Factor					Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5645.811	7.92	34.43	35.06	46.42	53.71	68.20	-14.49	peak
2	5715.000	7.97	34.27	35.03	52.97	60.18	109.40	-49.22	peak
3	5725.000	7.98	34.25	35.03	64.98	72.18	122.20	-50.02	peak
4	5745.000	7.99	34.21	35.02	99.36	106.54			peak



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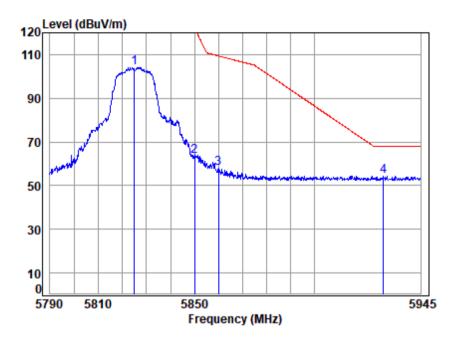


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Report No.: SZCR240400147803

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5825 Band edge

· 5G WTFT 11Δ

	. 50	MATI T	117						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	96.82	104.24			peak
2	5850.000	8.07	34.40	34.97	55.73	63.23	122.20	-58.97	peak
3	5860.000	8.07	34.44	34.96	50.50	58.05	109.40	-51.35	peak
4 p	5929.315	8.12	34.66	34.93	46.31	54.16	68.20	-14.04	peak



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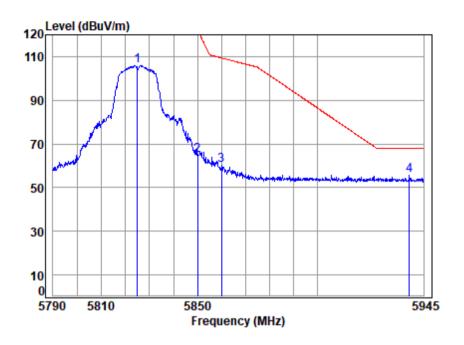


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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 01478AT

Mode : 5825 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	98.58	106.00			peak
2	5850.000	8.07	34.40	34.97	57.44	64.94	122.20	-57.26	peak
3	5860.000	8.07	34.44	34.96	52.66	60.21	109.40	-49.19	peak
4 p	5939.035	8.13	34.68	34.93	47.59	55.47	68.20	-12.73	peak



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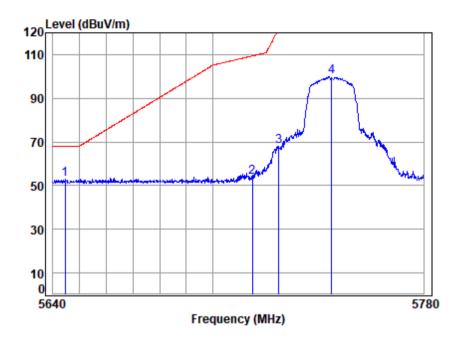


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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5745 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5644.565								•
2	5715.000	7.97	34.27	35.03	46.73	53.94	109.40	-55.46	peak
3	5725.000	7.98	34.25	35.03	60.91	68.11	122.20	-54.09	peak
4	5745.000	7.99	34.21	35.02	92.76	99.94			peak



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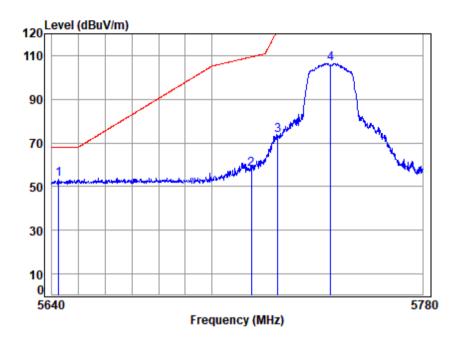


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 01478AT

Mode : 5745 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5642.490								•
2	5715.000	7.97	34.27	35.03	50.83	58.04	109.40	-51.36	peak
3	5725.000	7.98	34.25	35.03	66.08	73.28	122.20	-48.92	peak
4	5745.000	7.99	34.21	35.02	99.35	106.53			peak



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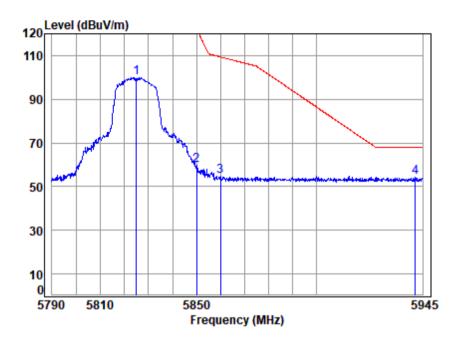


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 01478AT Job No

Mode : 5825 Band edge

· 5G WIFT 11AC20

		MATIT	TIACZU						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	92.68	100.10			peak
2	5850.000	8.07	34.40	34.97	52.39	59.89	122.20	-62.31	peak
3	5860.000	8.07	34.44	34.96	47.30	54.85	109.40	-54.55	peak
4 n	5942 017	8 13	34 68	34 93	46 38	54 26	68 20	-13 94	neak



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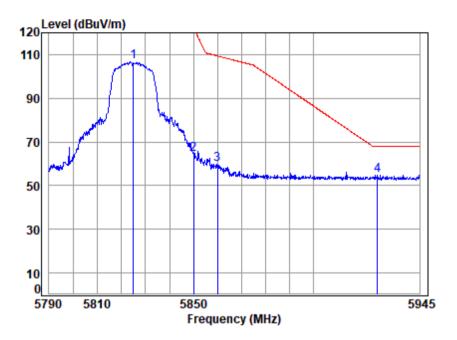


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 01478AT

Mode : 5825 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	99.34	106.76			peak
2	5850.000	8.07	34.40	34.97	56.96	64.46	122.20	-57.74	peak
3	5860.000	8.07	34.44	34.96	52.27	59.82	109.40	-49.58	peak
4 p	5927.123	8.12	34.65	34.93	47.06	54.90	68.20	-13.30	peak



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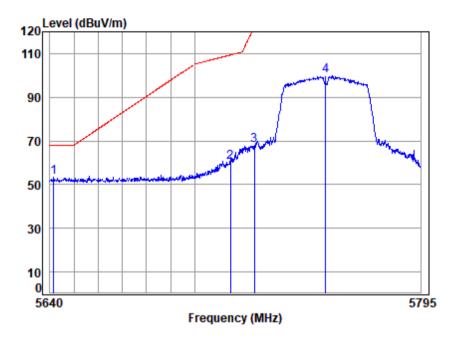


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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5755 Band edge

: 5G WIFI 11AC40

	Frea			Preamp Factor					Remark
-	MHz			dB					
1 p	5641.529	7.92	34.45	35.07	45.88	53.18	68.20	-15.02	peak
2	5715.000	7.97	34.27	35.03	53.19	60.40	109.40	-49.00	peak
3	5725.000	7.98	34.25	35.03	60.67	67.87	122.20	-54.33	peak
	5755.000								-



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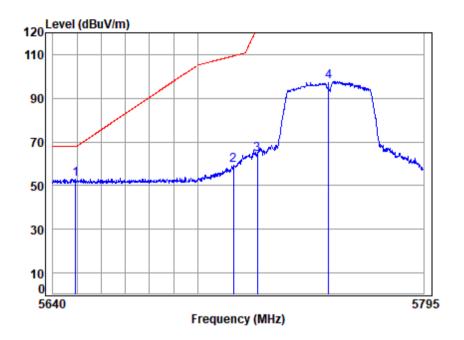


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 01478AT

Mode : 5755 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5649.335								•
2	5715.000	7.97	34.27	35.03	51.88	59.09	109.40	-50.31	peak
3	5725.000	7.98	34.25	35.03	57.33	64.53	122.20	-57.67	peak
4	5755.000	8.00	34.21	35.01	90.39	97.59			peak



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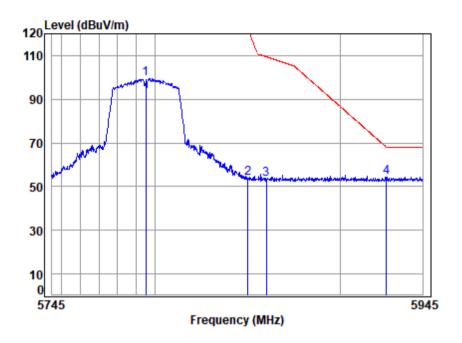


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5795 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	92.23	99.56			peak
2	5850.000	8.07	34.40	34.97	46.15	53.65	122.20	-68.55	peak
3	5860.000	8.07	34.44	34.96	45.93	53.48	109.40	-55.92	peak
4 r	5925.096	8.12	34.65	34.93	46.57	54.41	68.20	-13.79	peak



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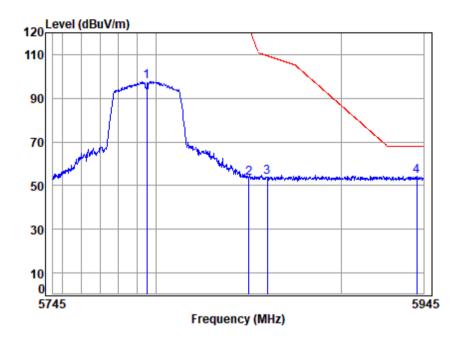


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Test Mode: 04: Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 01478AT

Mode : 5795 Band edge

: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	90.47	97.80			peak
2	5850.000	8.07	34.40	34.97	45.91	53.41	122.20	-68.79	peak
3	5860.000	8.07	34.44	34.96	46.25	53.80	109.40	-55.60	peak
4	p 5941.339	8.13	34.68	34.93	46.25	54.13	68.20	-14.07	peak



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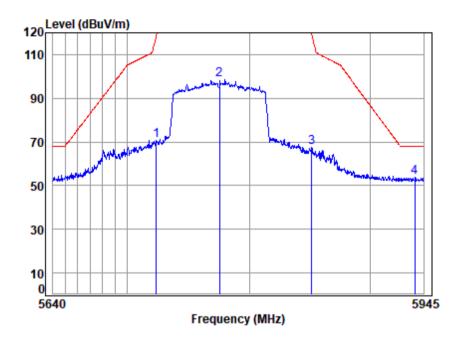


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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 01478AT

Mode : 5775 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5723.486	7.98	34.25	35.03	63.59	70.79	118.75	-47.96	peak
2	5775.000	8.01	34.25	35.00	91.13	98.39			peak
3	5851.191	8.07	34.40	34.97	59.82	67.32	119.48	-52.16	peak
4 p	5937.803	8.13	34.68	34.93	45.87	53.75	68.20	-14.45	peak



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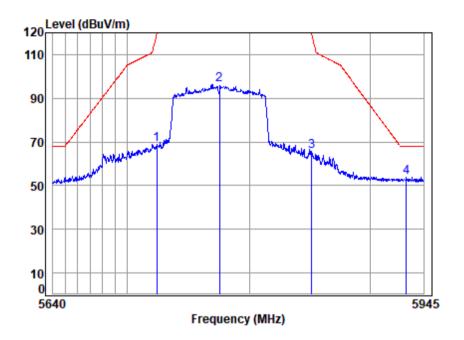


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Test Mode: 04: Polarity: Vertical: Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL Job No : 01478AT

Mode : 5775 Band edge

: 5G WIFI 11AC80

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5723.787	7.98	34.25	35.03	61.91	69.11	119.44	-50.33	peak
2	5775.000	8.01	34.25	35.00	89.20	96.46			peak
3	5851.191	8.07	34.40	34.97	58.22	65.72	119.48	-53.76	peak
4 p	5930.302	8.12	34.66	34.93	45.92	53.77	68.20	-14.43	peak



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7.6 Duty Cycle

Test Requirement KDB 789033 D02 II B 1 Test Method: KDB 789033 II B 1

7.6.1 E.U.T. Operation

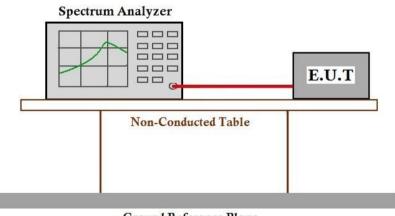
Operating Environment:

Temperature: 23.2 °C Humidity: 46.6 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

7.0.2 Test mode bescription									
Pre-scan / Final test	Mode Code	Description							
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.							
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.							

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.7.1 E.U.T. Operation

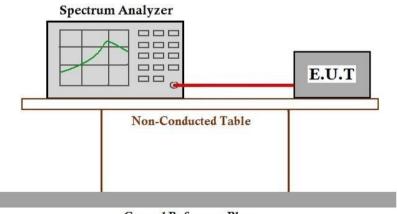
Operating Environment:

Temperature: 23.2 °C Humidity: 46.6 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

	7.7.2 Test mode bescription						
Pre-scan / Final test	Mode Code	Description					
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.					
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.					

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.8.1 E.U.T. Operation

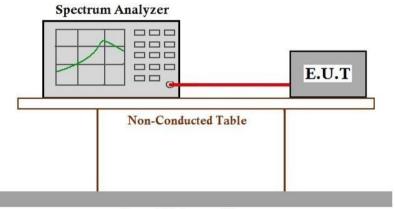
Operating Environment:

Temperature: 23.2 °C Humidity: 46.6 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit	
5725-5850	≥500 kHz	

7.9.1 E.U.T. Operation

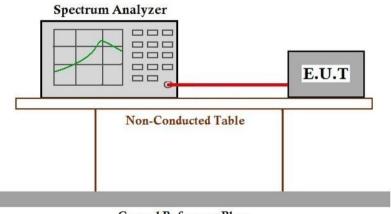
Operating Environment:

Temperature: 23.2 °C Humidity: 46.6 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.10 Peak Power spectrum density

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement

Test Method: KDB 789033 D02 II F

Limit:

Frequenc	y band(MHz)	Limit		
5150-5	250	≤17dBm in 1MHz for master device		
5150-5	250	≤11dBm in 1MHz for client device		
5250-5	350	≤11dBm in 1MHz for client device		
5470-5	725	≤11dBm in 1MHz for client device		
5725-5	850	≤30dBm in 500 kHz		
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.			

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 46.6 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.



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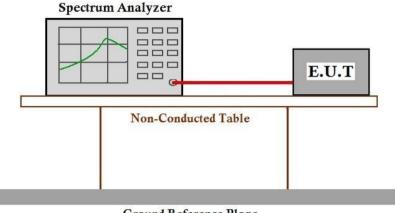
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7.10.3 Test Setup Diagram



Ground Reference Plane

7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g) Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 46.6 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac20/40/80, Only the data of worst case is recorded in the report.



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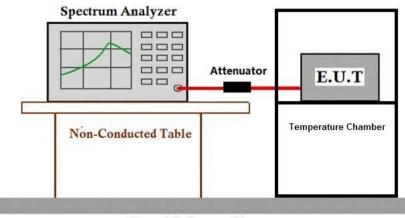


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7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2404001478AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2404001478AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
		5180	1.393	1.500	92.87	0.32	0.03		
		5200	1.394	1.500	92.93	0.32	0.03		
802.11a	SISO	5240	1.392	1.499	92.86	0.32	0.04		
002.11a	3130	5745	1.394	1.501	92.87	0.32	0.03		
		5785	1.394	1.501	92.87	0.32	0.03		
		5825	1.393	1.500	92.87	0.32	0.03		
		5180	1.289	1.396	92.34	0.35	0.03		
		5200	1.289	1.395	92.40	0.34	0.03		
802.11n	SISO	5240	1.288	1.395	92.33	0.35	0.03		
(HT20)	5150	5745	1.289	1.396	92.34	0.35	0.03		
		5785	1.289	1.395	92.40	0.34	0.04		
		5825	1.289	1.395	92.40	0.34	0.03		
		5190	0.636	0.743	85.60	0.68	0.03		
802.11n	SISO	5230	0.636	0.743	85.60	0.68	0.03		
(HT40)	3130	5755	0.636	0.743	85.60	0.68	0.03		
		5795	0.636	0.743	85.60	0.68	0.03		
		5180	1.313	1.420	92.46	0.34	0.03		
		5200	1.313	1.420	92.46	0.34	0.03		
802.11ac	SISO	5240	1.312	1.420	92.39	0.34	0.03		
(VHT20)	3130	5745	1.313	1.420	92.46	0.34	0.03		
		5785	1.313	1.420	92.46	0.34	0.00		
		5825	1.313	1.420	92.46	0.34	0.06		
		5190	0.652	0.759	85.90	0.66	0.04		
802.11ac	SISO	5230	0.653	0.760	85.92	0.66	0.04		
(VHT40)	3130	5755	0.653	0.760	85.92	0.66	0.04		
		5795	0.653	0.760	85.92	0.66	0.04		
802.11ac	SISO	5210	0.325	0.432	75.23	1.24	0.03		
(VHT80)	SISO	5775	0.325	0.432	75.23	1.24	0.03		



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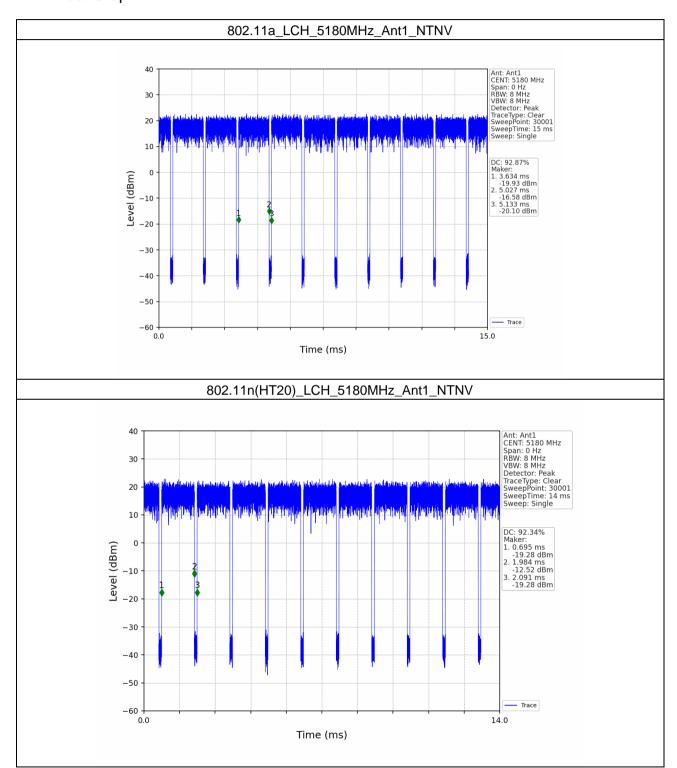


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1.1.2 Test Graph





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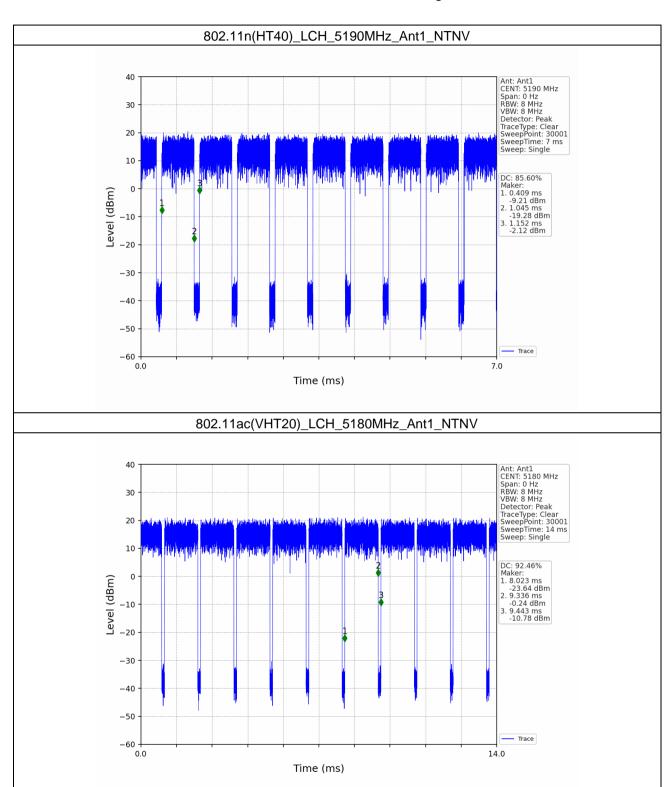
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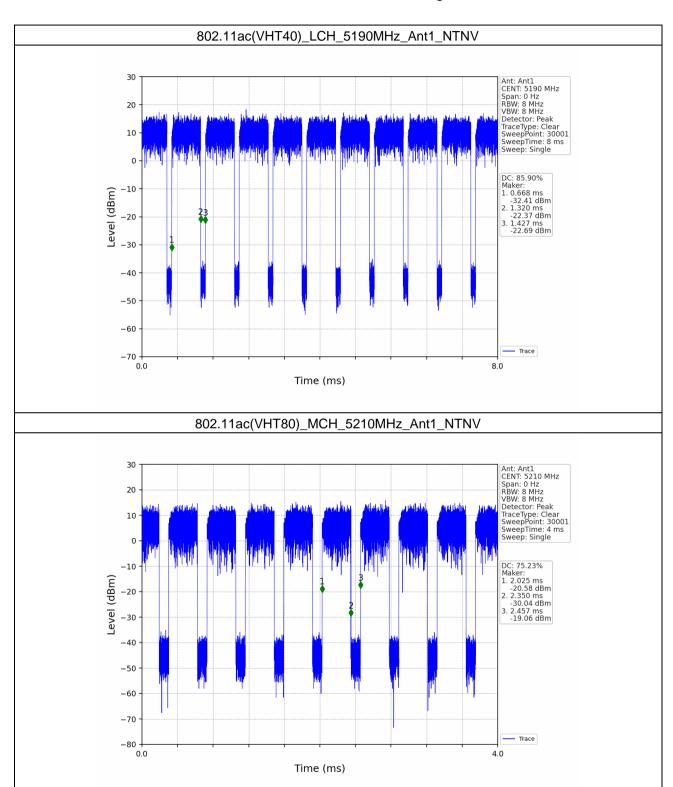
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mada	TX Type	Frequency	ANT	99% Occupied Bandwidth (MHz)		Market
Mode		(MHz)		Result	Limit	Verdict
		5180	1	17.807	/	Pass
		5200	1	17.988	/	Pass
000 44 -	0100	5240	1	18.122	/	Pass
802.11a	SISO	5745	1	17.849	/	Pass
		5785	1	17.846	/	Pass
		5825	1	17.969	/	Pass
		5180	1	18.416	/	Pass
		5200	1	18.594	/	Pass
802.11n	SISO	5240	1	18.672	/	Pass
(HT20)	5150	5745	1	18.552	/	Pass
		5785	1	18.508	/	Pass
		5825	1	18.537	/	Pass
	SISO	5190	1	37.101	/	Pass
802.11n		5230	1	37.216	/	Pass
(HT40)		5755	1	37.128	/	Pass
		5795	1	37.314	/	Pass
		5180	1	18.056	/	Pass
	0100	5200	1	18.195	/	Pass
802.11ac		5240	1	18.320	/	Pass
(VHT20)	SISO	5745	1	18.221	/	Pass
		5785	1	18.283	/	Pass
		5825	1	18.284	/	Pass
		5190	1	36.341	/	Pass
802.11ac	CICO	5230	1	36.400	/	Pass
(VHT40)	SISO	5755	1	36.392	/	Pass
		5795	1	36.334	/	Pass
802.11ac	0100	5210	1	75.583	/	Pass
(VHT80)	SISO	5775	1	75.601	/	Pass



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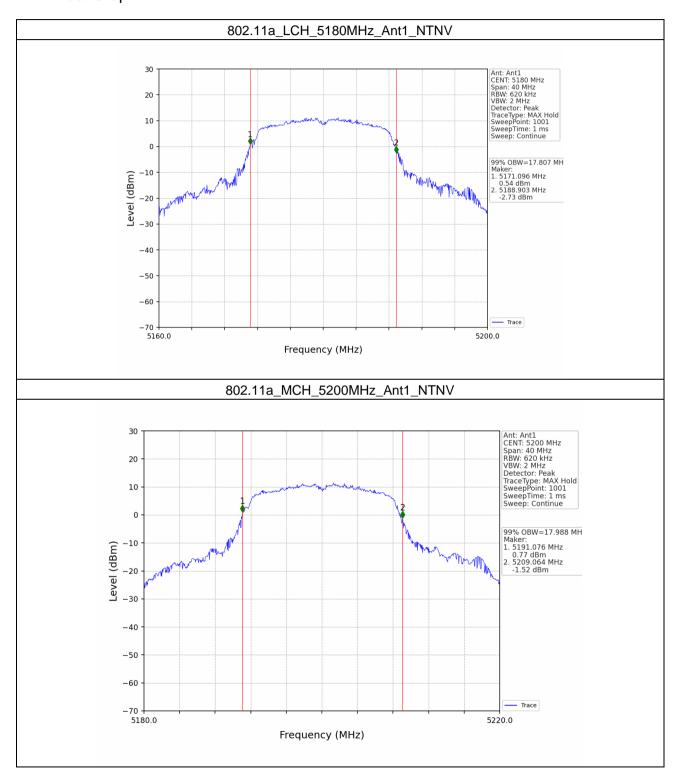


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2.1.2 Test Graph





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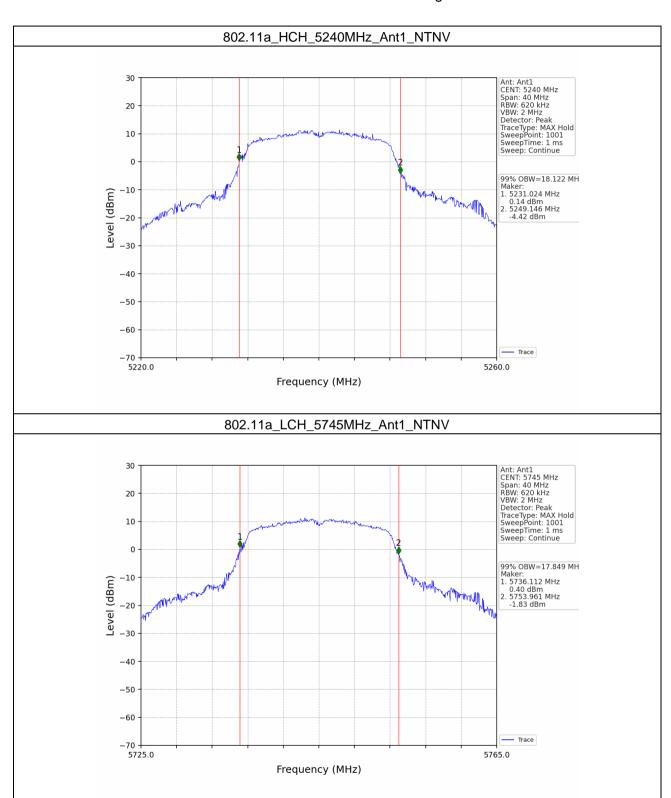
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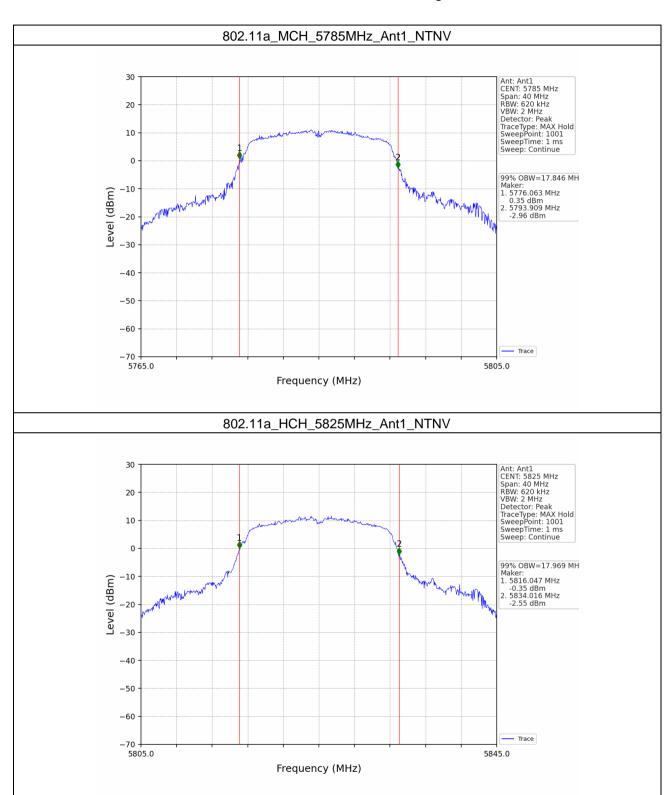
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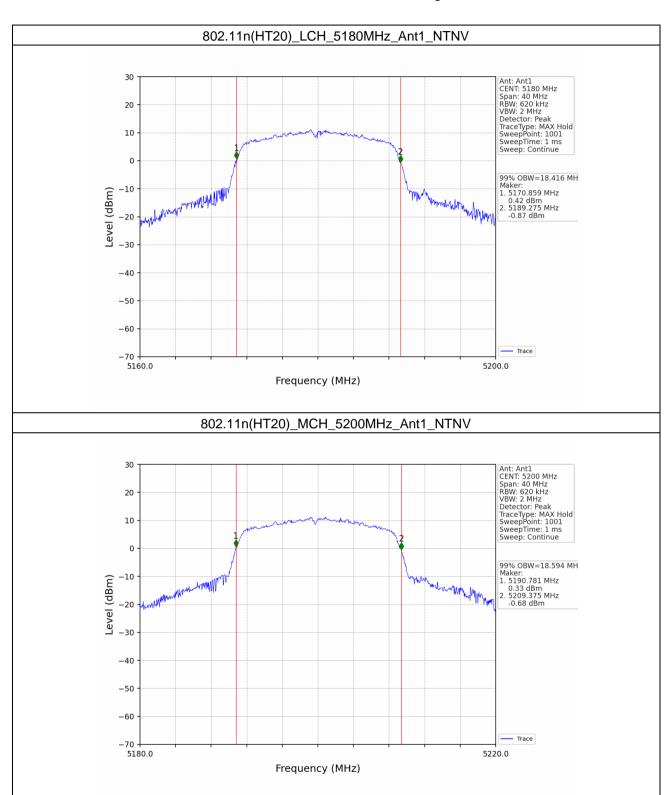
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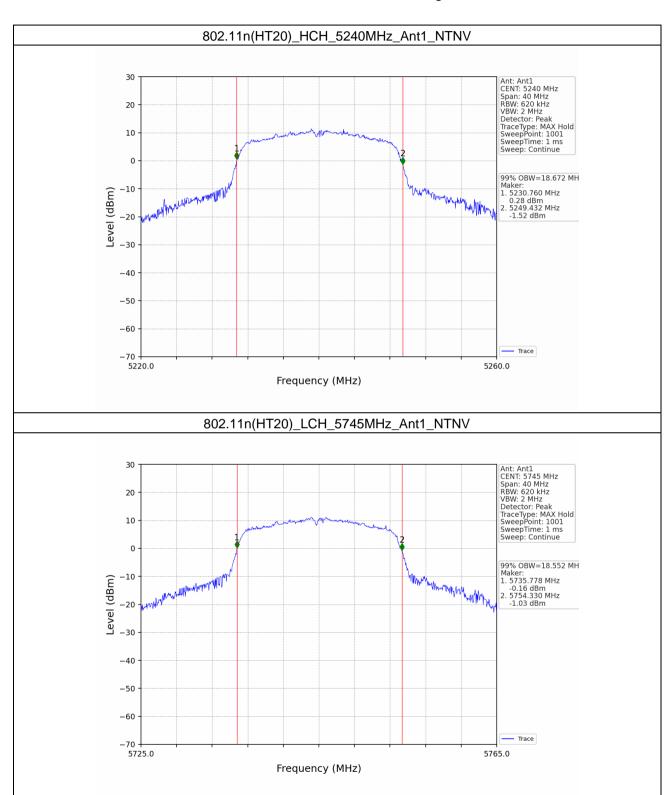
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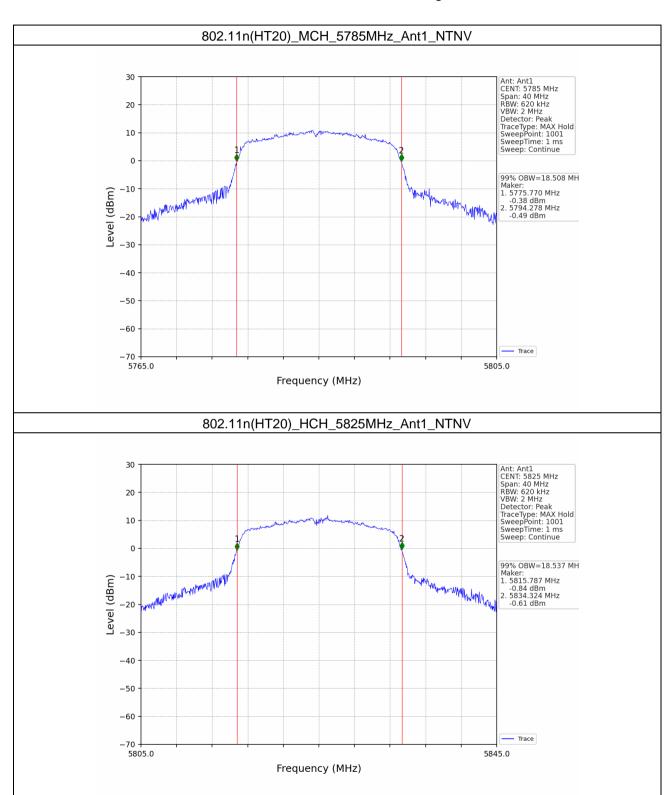
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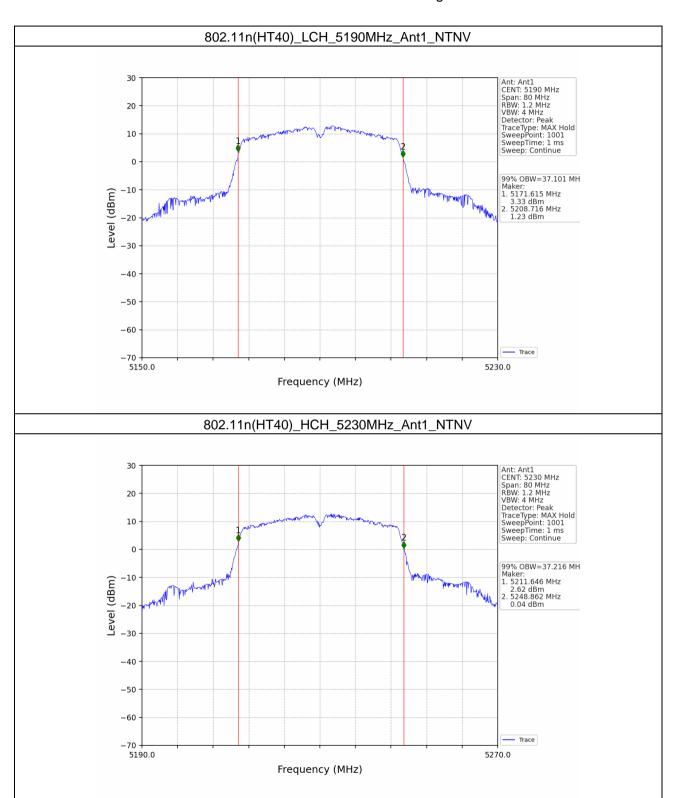
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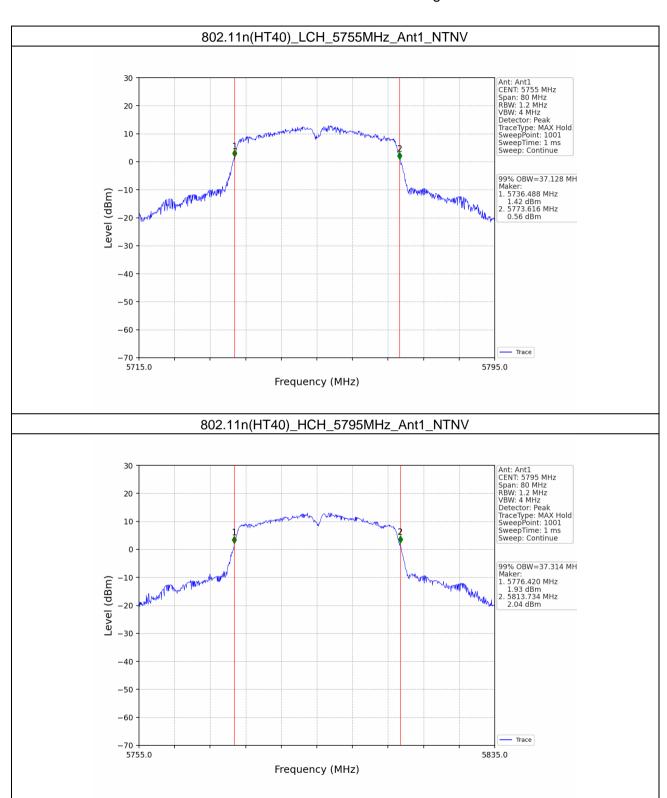
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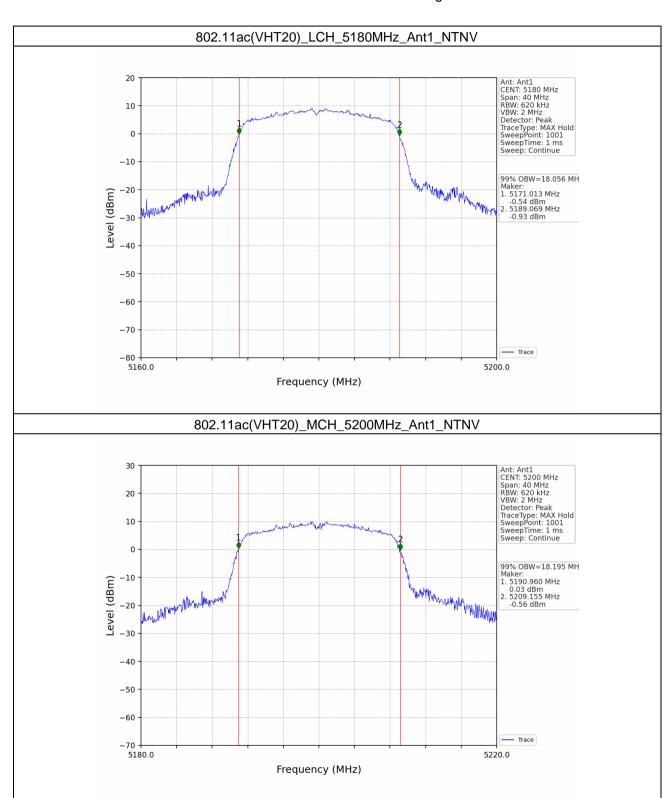
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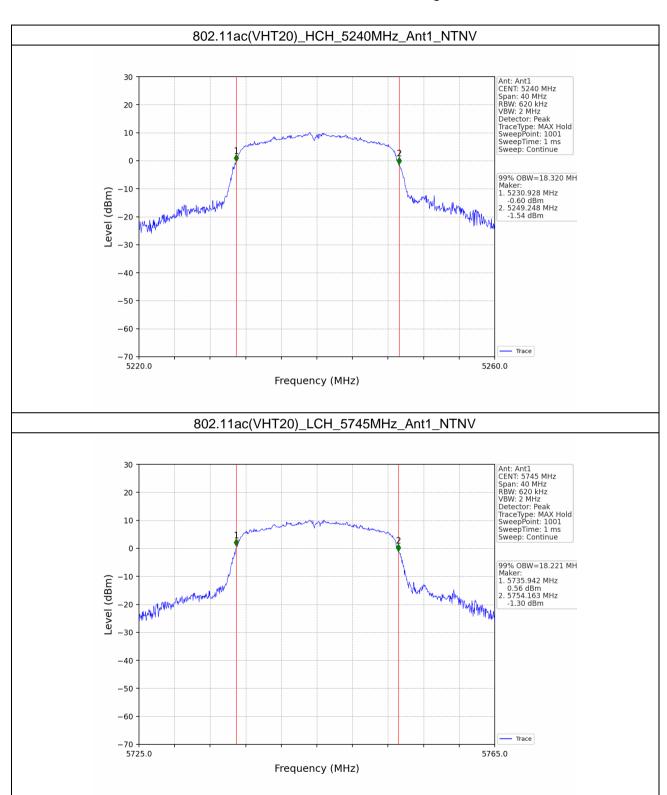
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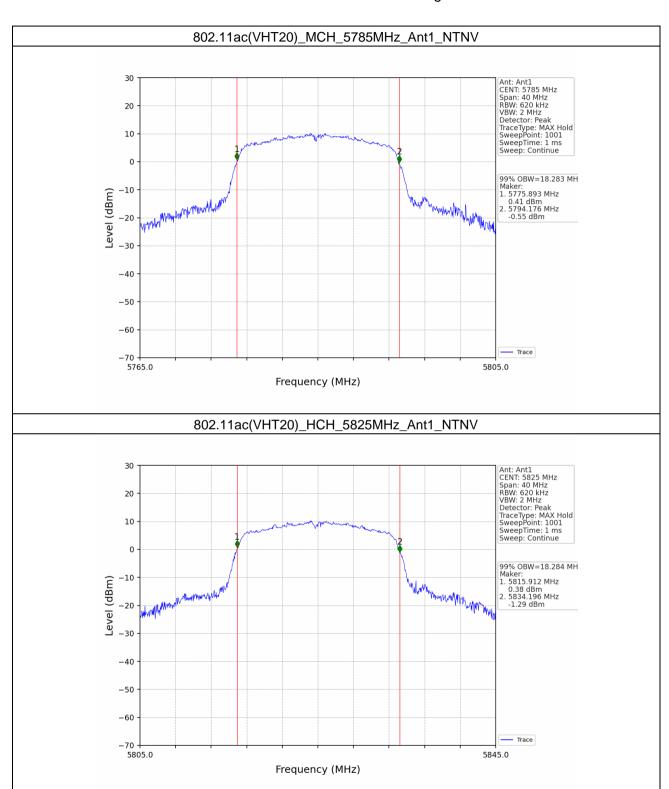
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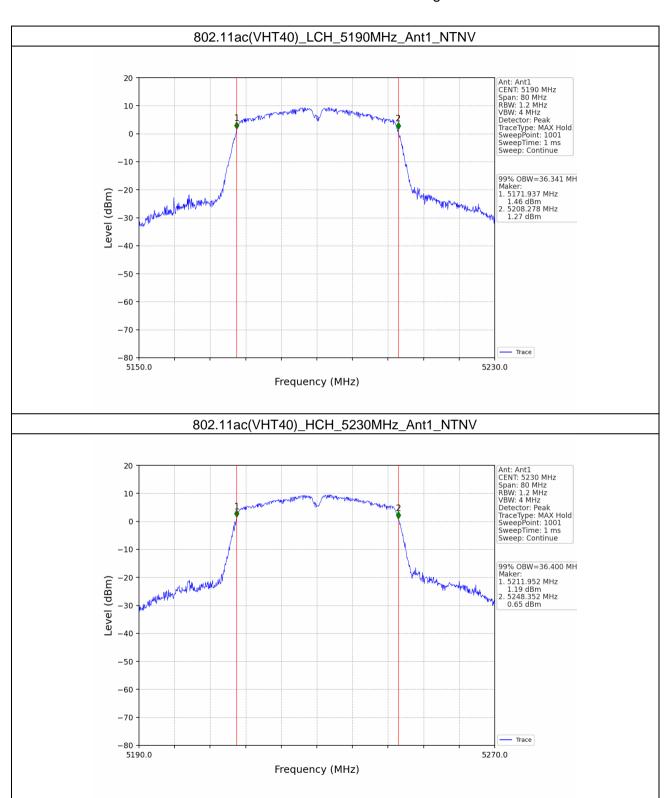
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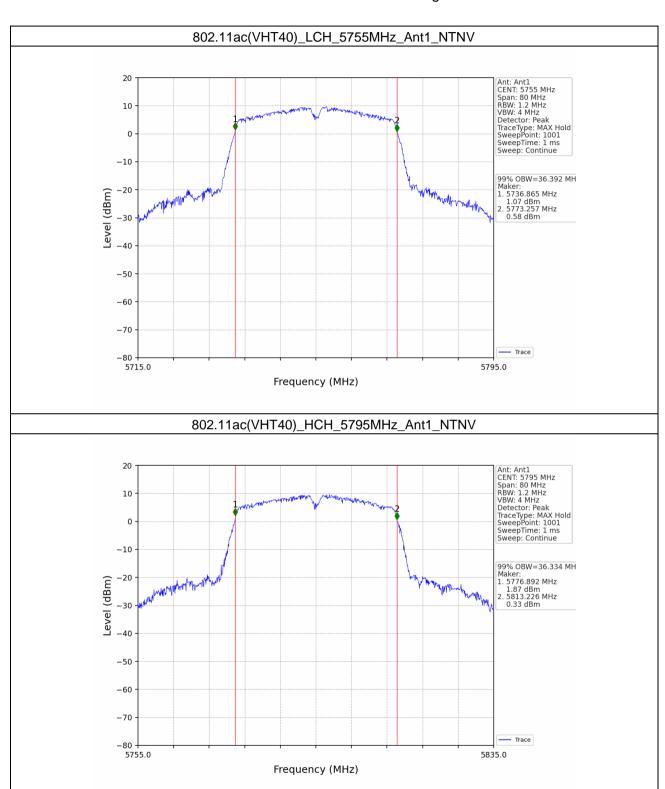
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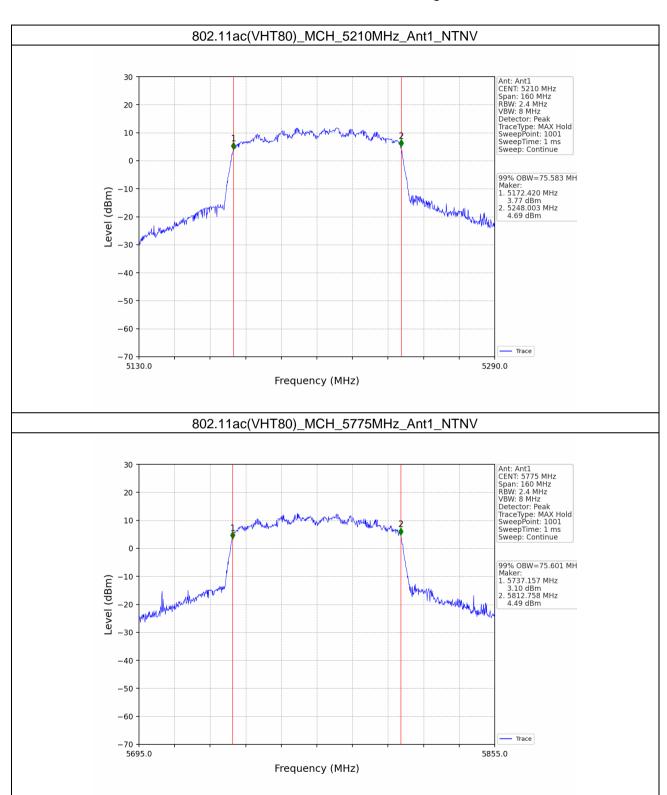
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	ANT	6dB Bandv	Vordict	
Mode	Туре	(MHz)		Result	Limit	Verdict
		5745	1	15.058	>=0.5	Pass
802.11a	SISO	5785	1	15.150	>=0.5	Pass
		5825	1	15.104	>=0.5	Pass
222.11		5745	1	14.227	>=0.5	Pass
802.11n (HT20)	SISO	5785	1	15.138	>=0.5	Pass
(11120)		5825	1	15.086	>=0.5	Pass
802.11n	SISO	5755	1	35.109	>=0.5	Pass
(HT40)		5795	1	35.127	>=0.5	Pass
222.44	SISO	5745	1	15.123	>=0.5	Pass
802.11ac (VHT20)		5785	1	15.143	>=0.5	Pass
(VIII20)		5825	1	15.125	>=0.5	Pass
802.11ac	CICO	5755	1	35.125	>=0.5	Pass
(VHT40)	SISO	5795	1	35.126	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.123	>=0.5	Pass



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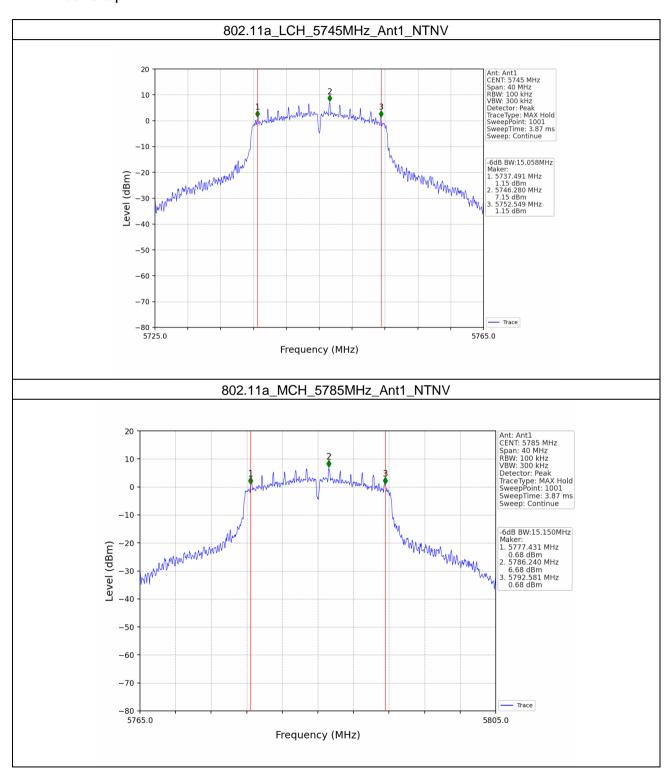


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2.2.2 Test Graph





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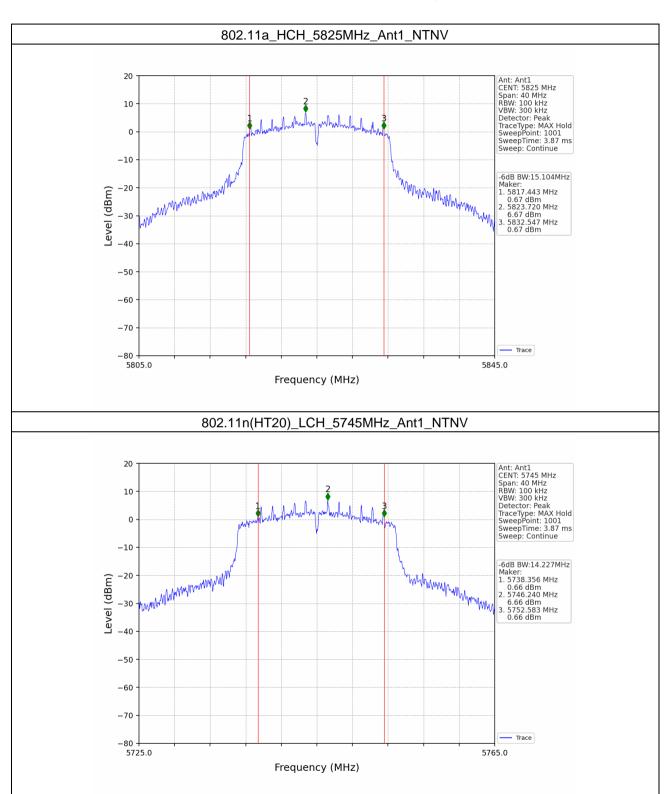
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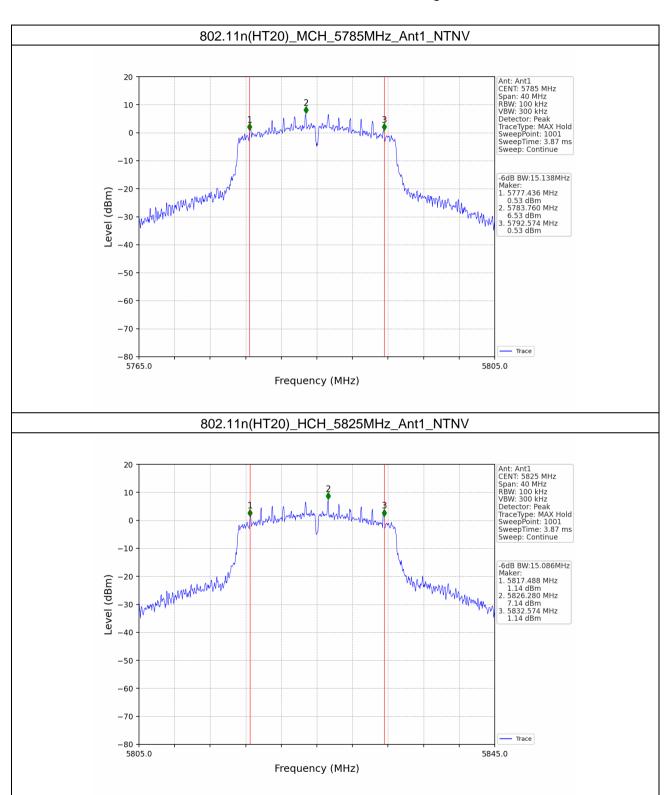
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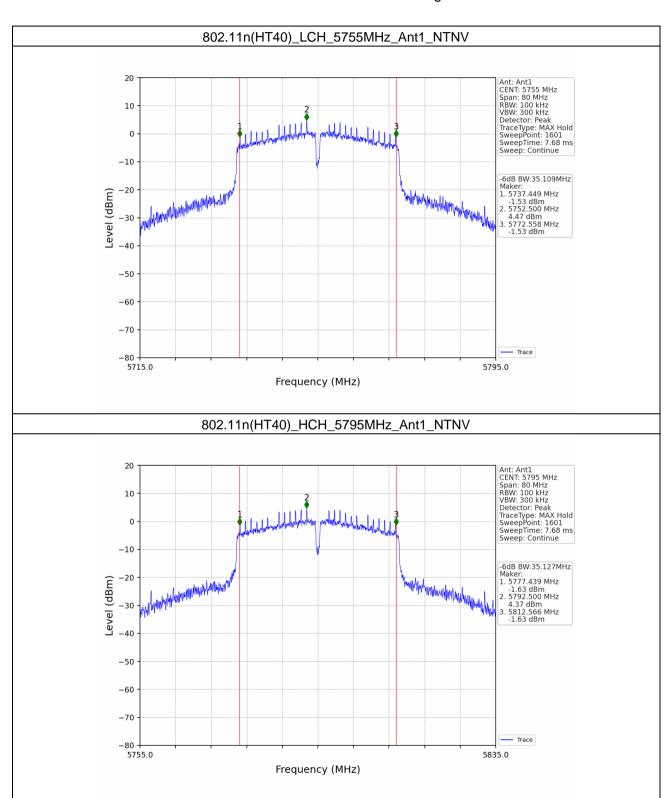
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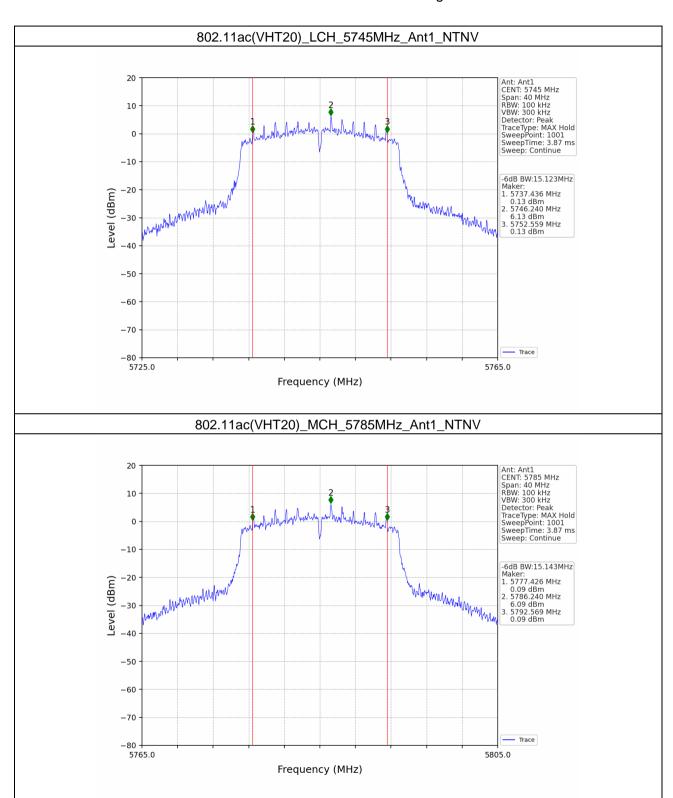
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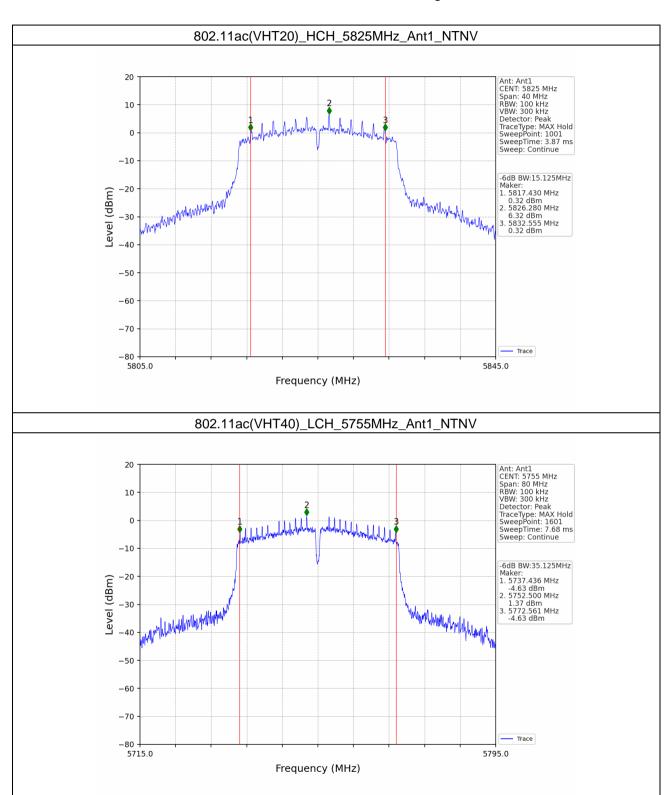
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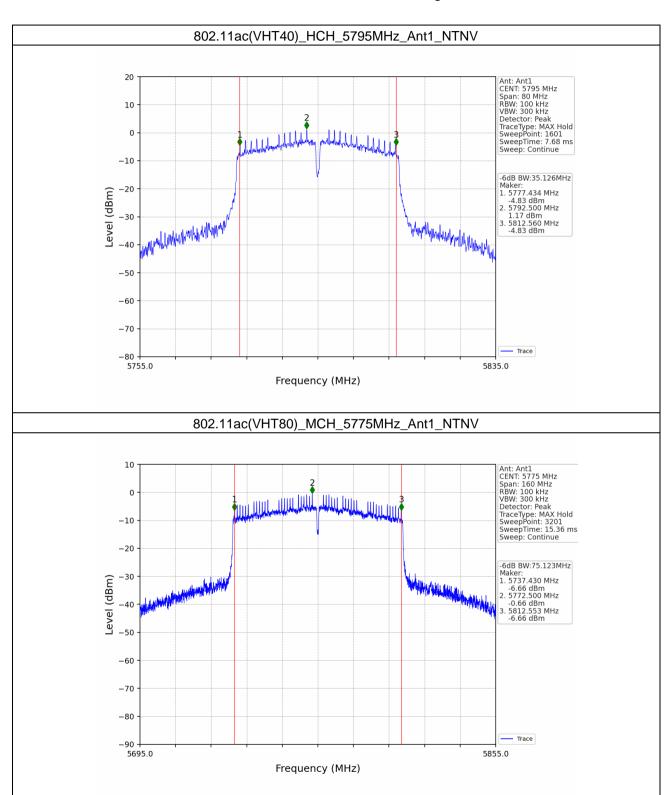
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2.3 26dB BW

2.3.1 Test Result

Mode	TX	Frequency (MHz) ANT	ANIT	26dB Bandv	Verdict	
Mode	Туре		Result	Limit		
		5180	1	21.377	/	Pass
802.11a	SISO	5200	1	23.261	/	Pass
		5240	1	25.585	/	Pass
000.44		5180	1	20.904	/	Pass
802.11n (HT20)	SISO	5200	1	22.749	/	Pass
(11120)		5240	1	25.959	/	Pass
802.11n	SISO	5190	1	53.974	/	Pass
(HT40)		5230	1	61.500	/	Pass
222.44	SISO	5180	1	19.991	/	Pass
802.11ac (VHT20)		5200	1	20.123	/	Pass
(11120)		5240	1	20.592	/	Pass
802.11ac	SISO	5190	1	40.355	/	Pass
(VHT40)	3130	5230	1	40.561	/	Pass
802.11ac (VHT80)	SISO	5210	1	81.065	/	Pass



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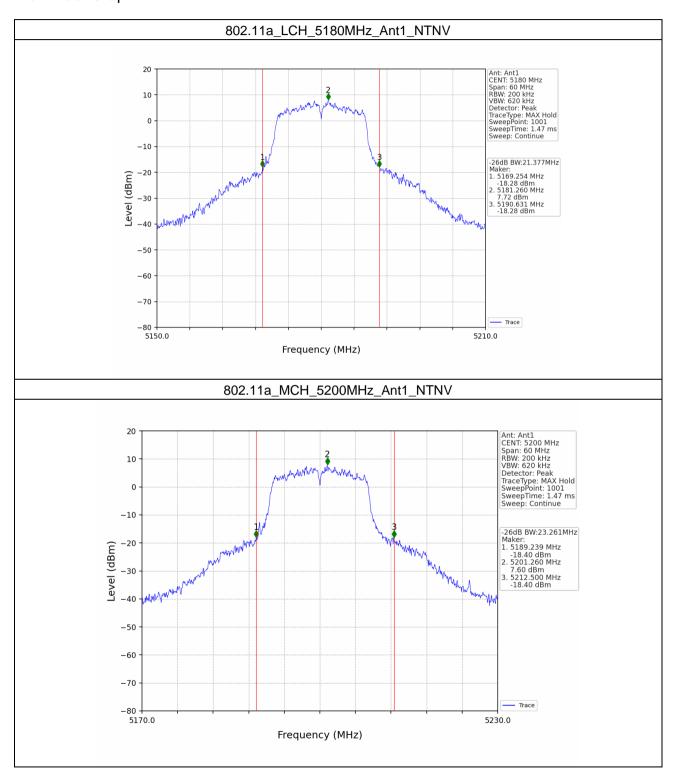


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2.3.2 Test Graph





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