

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200498802

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TEST REPORT

Application No.: SZCR2412004988AT Applicant: **UAB Teltonika Networks**

Address of Applicant: K. Barsausko st. 66, Kaunas, Lithuania LT-51436

Manufacturer: TELTONIKA NETWORKS, UAB

Address of Manufacturer: K Baršausko st. 66, LT-51436, Kaunas, Lithuania

Factory: TELTONIKA EMS, UAB

Address of Factory: Paluokesos st. 11, LT-33133, Molėtai, Lithuania

Equipment Under Test (EUT):

EUT Name: RedCap 5G Router

Model No.: **RUT976** Trade Mark: **TELTONIKA** FCC ID: 2AET4RUT976

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

2024-12-31 **Date of Receipt:**

Date of Test: 2025-01-11 to 2025-03-15

2025-04-01 Date of Issue:

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		2025-04-01		Original			

Authorized for issue by:		
	Charle Doi	
	Charlie Dai/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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2 **Test Summary**

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

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



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General Information

Details of E.U.T. 4.1

 	,
Power supply:	Power by switching adapter
	Adapter 1
	Model No.: ASSA107W-090100
	Input: AC 100-240V, 50/60Hz, 0.45A
	Output: DC 9.0V, 1.0A, 9.0W
	Adapter 2
	Model No.: ASSA107A-090100
	Input: AC 100-240V, 50/60Hz, 0.45A
	Output: DC 9.0V, 1.0A, 9.0W
	Note: Both Adapter 1 and Adapter 2 were tested, and only the worst data of Adapter 2 was retained.
Cable(s):	DC cable from Adapter 200cm unshielded;
	LAN cable 154cm unshielded;
	2 pcs WiFi antenna 9.5cm shielded;
	2 pcs Mobile antenna 9.5cm shielded.
	1 pcs GPS antenna 295cm unshielded.
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz, 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 11, 802.11n(HT40):7
Antenna Type:	SMA Dipole Antenna
Antenna Gain:	ANT1&ANT2: 3dBi, the two antennas can transmit simultaneously.
Cable Loss (for RF conducted test):	0.8dB

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

4.2 Description of Support Units

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



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	\pm 6.0dB for 3m; \pm 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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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

Abnormalities from Standard Conditions 4.7

None



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5 **Equipment List**

Equipment Manufacturer Model No. Inventory No. Cal Date Cal Due Date							
Equipment	Manuracturer	wodel No.	inventory No.	Cai Date	Cai Due Date		
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13		
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M- 047	2025-01-08	2026-01-07		
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05		
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14		
LISN	TTC LINDODEN	0040/0	SEM007.03	2024-03-14	2025-03-13		
	ETS-LINDGREN 38	3816/2	16/2 SEM007-02	2025-03-03	2026-03-02		

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Signal Analyzei	Nonde & Schwarz	13740	3LIVI000-04	2025-03-04	2026-03-03	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15 2025-03-21	2025-03-14 2026-03-20	



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Radiated Spurious 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	2024-08-14	2025-08-13	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14 2025-03-04	2025-03-13 2026-03-03	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05	

Radiated Spurious Emis	ssions Above 1GHz				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Signal Analyzei	Nonde & Schwarz	13740	3LIVI000-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15 2025-03-21	2025-03-14 2026-03-20



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RF Conducted Test	RF Conducted Test										
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	SEM000 16	2024-03-14	2025-03-13						
Power Sensor	KETSIGHT	U2021XA	3EIVI009-10	SEM009-16 2025-03-04							
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13						
MXA Signal Analyzer	KEYSIGHT	N9020A SEM004-19		2024-03-14	2025-03-13						
WAA Signal Analyzei	KETSIGITI	N9020A	N9020A SEM004-19		2026-03-03						
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A						
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05						
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26						

General used equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23				
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18 2025-03-03	2025-03-17 2026-03-02				



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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 & 15.247(b)(4)

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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 and no consideration of replacement. The best case gain of the antenna is 3dBi.

Antenna location: Refer to external and internal photos.



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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

7.11.2 100011		
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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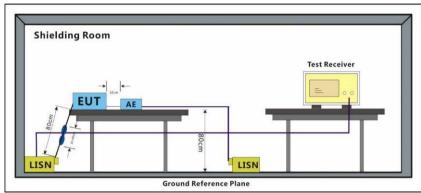


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7.1.3 Test Setup Diagram



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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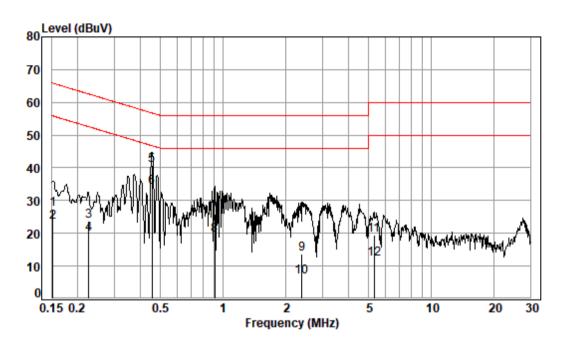


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Test Mode: 00: Line: Live line



: Shielding Room

Condition: Line Job No. : 04988AT

Test mode: 00 : 2#

	. 211							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.06	10.19	17.11	27.36	65 87	-38.51	OP
_								•
2	0.1524	0.06	10.19	13.24	23.49	55.87	-32.38	Average
3	0.2268	0.06	10.04	13.75	23.85	62.57	-38.72	QP
4	0.2268	0.06	10.04	9.82	19.92	52.57	-32.65	Average
5 *	0.4564	0.08	9.60	31.14	40.82	56.76	-15.94	QP
6 *	0.4564	0.08	9.60	24.31	33.99	46.76	-12.77	Average
7	0.9136	0.09	9.60	16.10	25.79	56.00	-30.21	QP
8	0.9136	0.09	9.60	9.69	19.38	46.00	-26.62	Average
9	2.3836	0.11	9.61	3.89	13.61	56.00	-42.39	QP
10	2.3836	0.11	9.61	-2.96	6.76	46.00	-39.24	Average
11	5.3050	0.13	9.66	9.77	19.56	60.00	-40.44	QP
12	5.3050	0.13	9.66	2.45	12.24	50.00	-37.76	Average



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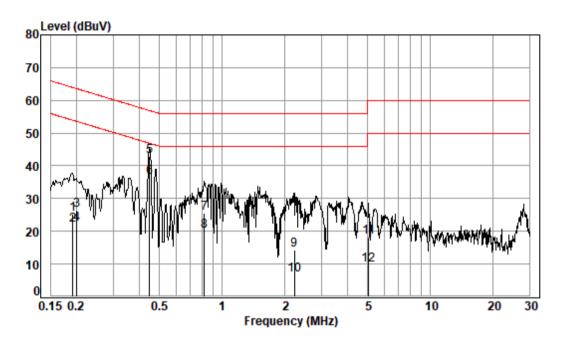


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Test Mode: 00: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04988AT

Test mode: 00

	: Z#							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	——dB	dBuV	dBuV	dBuV	——dB	
1	0.1924	0.06	10.09	15.07	25.22	63.93	-38.71	QP
2	0.1924	0.06	10.09	11.71	21.86	53.93	-32.07	Average
3	0.2007	0.06	10.08	16.24	26.38	63.58	-37.20	QP
4	0.2007	0.06	10.08	12.03	22.17	53.58	-31.41	Average
5 *	0.4492	0.08	9.72	33.19	42.99	56.89	-13.90	QP
6 *	0.4492	0.08	9.72	26.83	36.63	46.89	-10.26	Average
7	0.8217	0.09	9.60	15.71	25.40	56.00	-30.60	QP
8	0.8217	0.09	9.60	10.25	19.94	46.00	-26.06	Average
9	2.2249	0.10	9.55	4.59	14.24	56.00	-41.76	QP
10	2.2249	0.10	9.55	-2.88	6.77	46.00	-39.23	Average
11	5.0312	0.12	9.56	8.64	18.32	60.00	-41.68	QP
12	5.0312	0.12	9.56	0.03	9.71	50.00	-40.29	Average

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7.2 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 43.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

7.2.2 10001		- · · ·
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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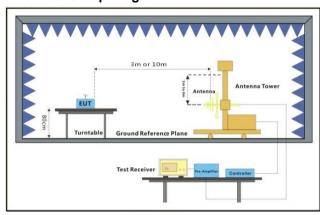
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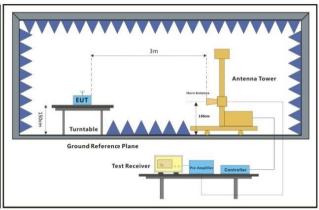


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7.2.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.2.4 Measurement Procedure and Data

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

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- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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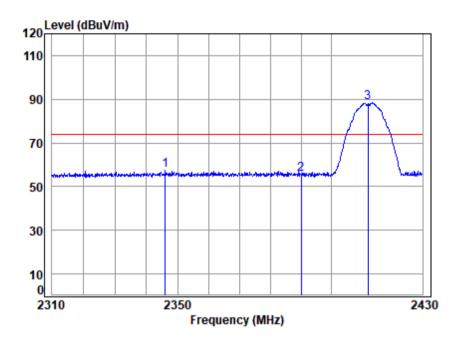


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2346.077	25.97	29.05	32.80	35.25	57.47	74.00	-16.53	peak
2	2390.000	25.99	29.10	32.78	33.51	55.82	74.00	-18.18	peak
3	p 2412.000	26.00	29.05	32.77	66.04	88.32	74.00	14.32	peak



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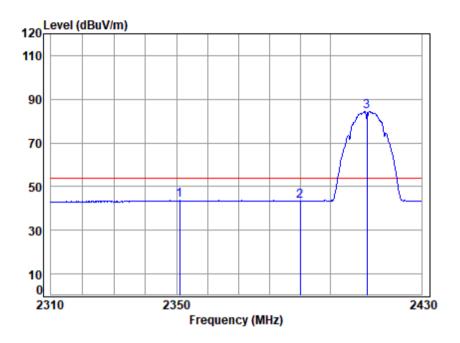


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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2350.953	25.97	29.10	32.80	21.35	43.62	54.00	-10.38	Average
2	2390.000	25.99	29.10	32.78	21.06	43.37	54.00	-10.63	Average
3 0	2412.000	26.00	29.05	32.77	62.21	84.49	54.00	30.49	Average



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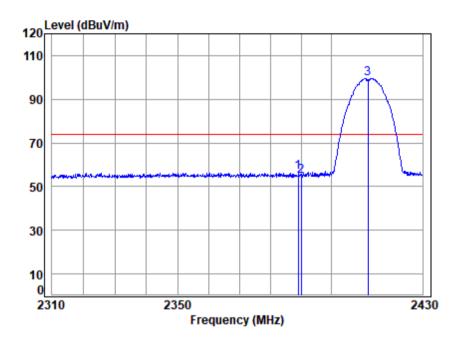
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2412 Band edge

· 2 4G WTET 11B

	. 2.	4G WIL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.121	25.99	29.10	32.78	34.15	56.46	74.00	-17.54	Peak
2	2390.000	25.99	29.10	32.78	32.38	54.69	74.00	-19.31	Peak
3	n 2412,000	26.00	29.05	32.77	77.40	99.68	74.00	25.68	Peak



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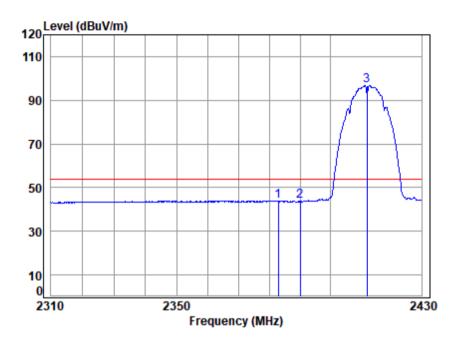


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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2382.958	25.99	29.10	32.78	21.66	43.97	54.00	-10.03	Average	
	2390.000	25.99	29.10	32.78	21.30	43.61	54.00	-10.39	Average	
q	2412.000	26.00	29.05	32.77	74.51	96.79	54.00	42.79	Average	



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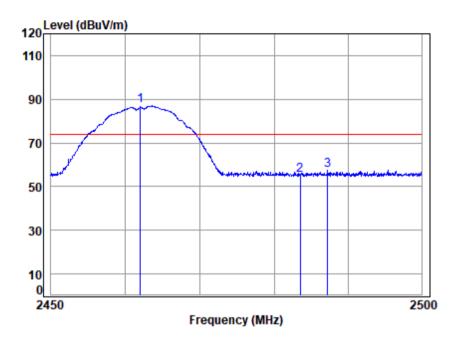


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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2462 Band edge

: 2.4G WIFI 11B

	. 2	TO MIL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
р	2462.000	26.03	28.90	32.74	64.75	86.94	74.00	12.94	peak
	2483.500	26.04	28.90	32.73	33.21	55.42	74.00	-18.58	peak
	2/127 25/	26 04	28 90	32 73	35 00	57 30	7/ 00	_16_70	nook



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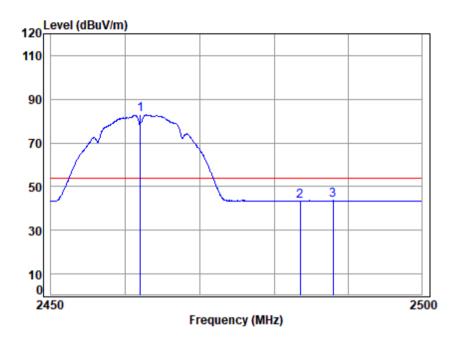


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

Page: 25 of 160

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2462 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	26.03	28.90	32.74	60.63	82.82	54.00	28.82	Average
2	2483.500	26.04	28.90	32.73	21.21	43.42	54.00	-10.58	Average
3	2488.008	26.04	28.90	32.73	21.45	43.66	54.00	-10.34	Average



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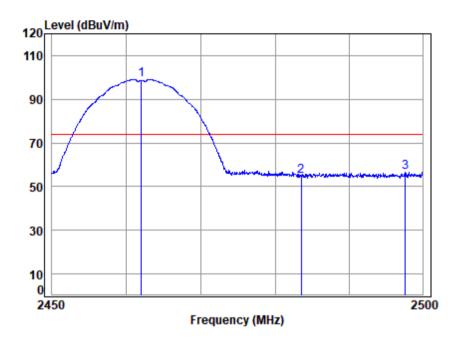
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Report No.: SZCR241200498802

Page: 26 of 160

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT : 2462 Band edge Mode

: 2.4G WIFI 11B

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1 p 2462.000 32.74 76.92 99.11 74.00 25.11 Peak 26.03 28.90 32.73 2483.500 26.04 28.90 32.71 54.92 74.00 -19.08 Peak 2497.627 26.05 28.90 32.73 34.52 56.74 74.00 -17.26 Peak



2

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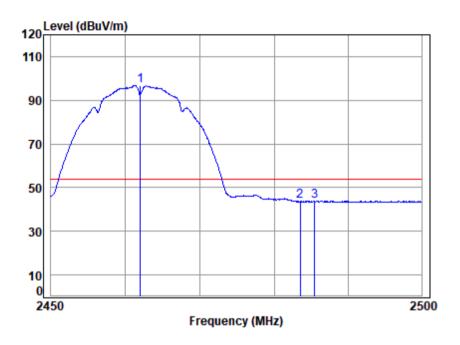


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

Page: 27 of 160

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2462 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	26.03	28.90	32.74	74.55	96.74	54.00	42.74	Average
2	2483.500	26.04	28.90	32.73	21.37	43.58	54.00	-10.42	Average
3	2485.446	26.04	28.90	32.73	21.64	43.85	54.00	-10.15	Average



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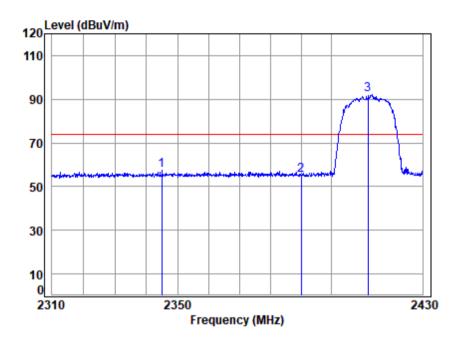


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2412 Band edge

· 2 4G WTET 11G

	. 2.	+G MIL								
		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	2345.008	25.97	29.03	32.80	35.13	57.33	74.00	-16.67	peak	
2	2390.000	25.99	29.10	32.78	33.01	55.32	74.00	-18.68	peak	
3 n	2412.000	26.00	29.05	32.77	69.67	91.95	74.00	17.95	neak	



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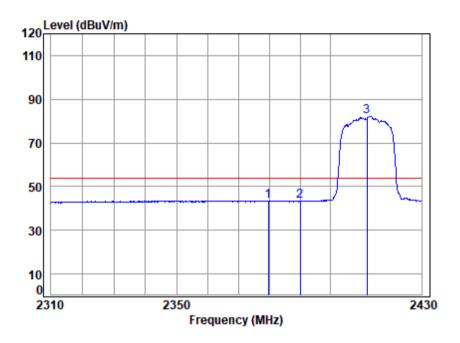
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Page: 29 of 160

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2412 Band edge

: 2.4G WIFI 11G

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Limit Remark Line dBuV dBuV/m dBuV/m MHz dB dB/m 2379.702 25.99 29.10 32.79 21.21 43.51 54.00 -10.49 Average 43.15 2390.000 25.99 29.10 32.78 20.84 54.00 -10.85 Average 3 q 2412.000 26.00 29.05 32.77 59.97 82.25 54.00 28.25 Average



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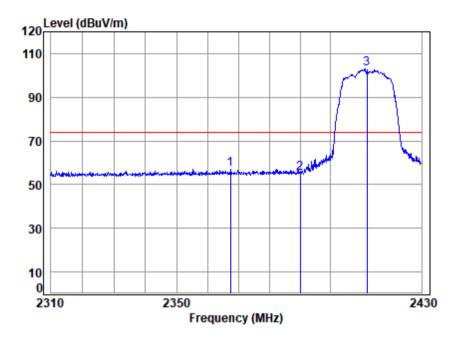
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2412 Band edge

· 2 4G WIFT 11G

	. 2	+Q MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	2367.321	25.98	29.10	32.79	34.74	57.03	74.00	-16.97	Peak	
2	2390.000	25.99	29.10	32.78	32.94	55.25	74.00	-18.75	Peak	
	2412 000									



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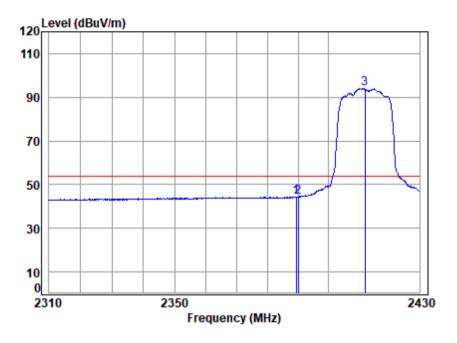
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2412 Band edge

: 2.4G WIFI 11G

	. 2.	TO MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.363	25.99	29.10	32.78	22.05	44.36	54.00	-9.64	Average	
2	2390.000	25.99	29.10	32.78	22.00	44.31	54.00	-9.69	Average	
3 0	2/12 000	26 00	29 05	32 77	71 68	93 96	5/ 00	39 96	Λυοροσο	



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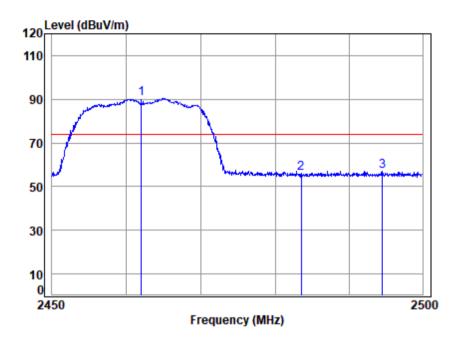


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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2462 Band edge

: 2.4G WIFI 11G

	. 2	TO WILL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	2462.000	26.03	28.90	32.74	68.14	90.33	74.00	16.33	peak	
2	2483.500	26.04	28.90	32.73	33.85	56.06	74.00	-17.94	peak	
3	2/0/ 551	26 05	28 90	32 73	3/1 91	57 03	7/ 00	16 97	noak	



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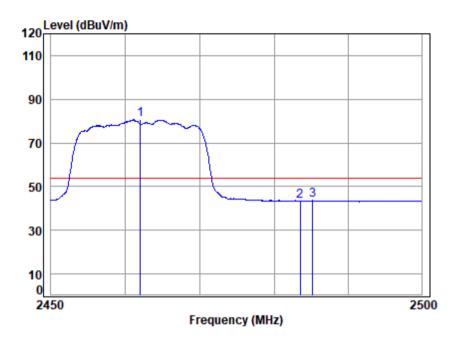


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

Page: 33 of 160

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2462 Band edge

: 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	26.03	28.90	32.74	58.39	80.58	54.00	26.58	Average
2	2483.500	26.04	28.90	32.73	21.09	43.30	54.00	-10.70	Average
3	2485.195	26.04	28.90	32.73	21.39	43.60	54.00	-10.40	Average



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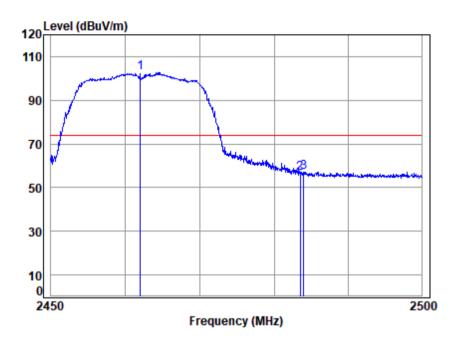


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

Page: 34 of 160

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2462 Band edge

· 2 4G WTET 11G

	. 2.	+G MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	p 2462.000	26.03	28.90	32.74	80.45	102.64	74.00	28.64	Peak	
	2483.500									
	2483 990									



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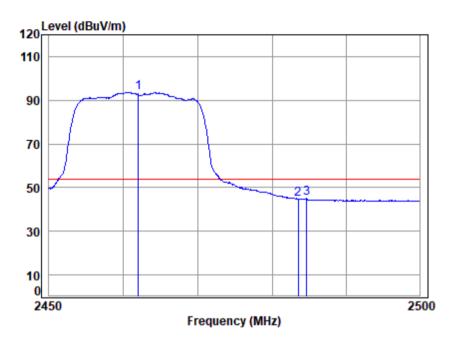


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

Page: 35 of 160

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2462 Band edge

: 2.4G WIFI 11G

	Freq						Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	26.03	28.90	32.74	71.53	93.72	54.00	39.72	Average
2	2483.500	26.04	28.90	32.73	22.59	44.80	54.00	-9.20	Average
3	2484.643	26.04	28.90	32.73	22.86	45.07	54.00	-8.93	Average



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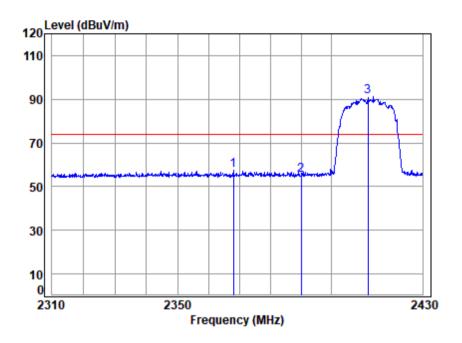


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2412 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2368.041	25.98	29.10	32.79	35.08	57.37	74.00	-16.63	peak
2	2390.000	25.99	29.10	32.78	33.09	55.40	74.00	-18.60	peak
3	p 2412.000	26.00	29.05	32.77	68.83	91.11	74.00	17.11	peak



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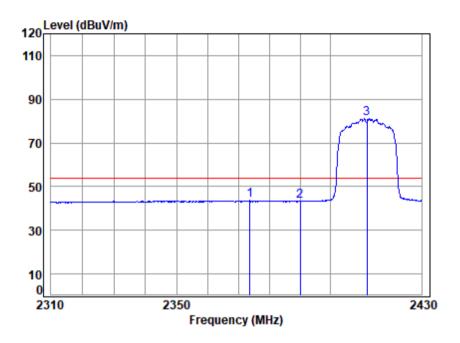


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

Page: 37 of 160

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT : 2412 Band edge Mode

: 2.4G WIFI 11N20

					_					
		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
										Average
2	2390	0.000	25.99	29.10	32.78	21.00	43.31	54.00	-10.69	Average
3	q 2412	2.000	26.00	29.05	32.77	58.82	81.10	54.00	27.10	Average



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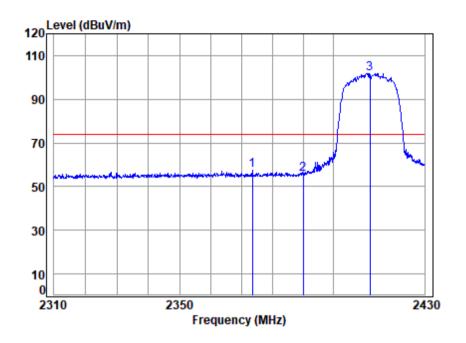
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Report No.: SZCR241200498802

Page: 38 of 160

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2412 Band edge

· 2 4G WTET 11N20

	. 2.	+Q MIL	1 111/2	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	2373.444	25.98	29.10	32.79	35.04	57.33	74.00	-16.67	Peak
2	2390.000	25.99	29.10	32.78	33.27	55.58	74.00	-18.42	Peak
3 1	2412 000	26 00	29 05	32 77	79 64	101 92	74 00	27 92	Peak



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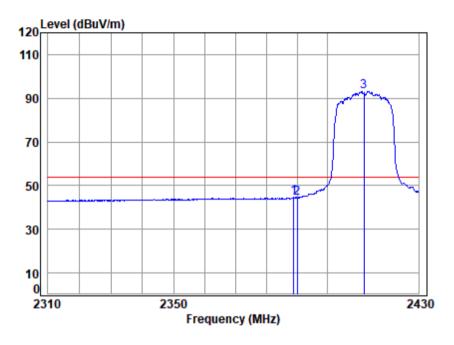
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Report No.: SZCR241200498802

Page: 39 of 160

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT : 2412 Band edge Mode

: 2.4G WIFI 11N20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB

1 2388.879 25.99 29.10 32.78 22.26 44.57 -9.43 Average 54.00 2390.000 25.99 29.10 32.78 22.08 54.00 -9.61 Average 44.39 26.00 29.05 32.77 70.77 93.05 54.00 3 q 2412.000 39.05 Average



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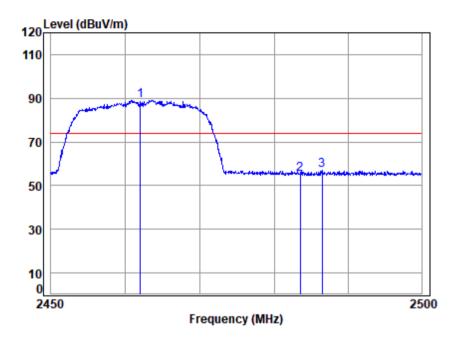


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2462 Band edge

: 2.4G WIFI 11N20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2462.000								•
2483.500								•
2486.501	26.04	28.90	32.73	34.61	56.82	74.00	-17.18	peak



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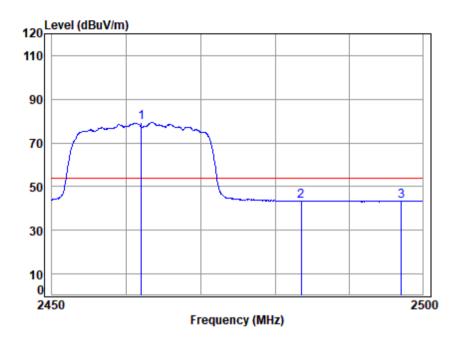


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Report No.: SZCR241200498802

Page: 41 of 160

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2462 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
q	2462.000								_
	2483.500 2497.123								_



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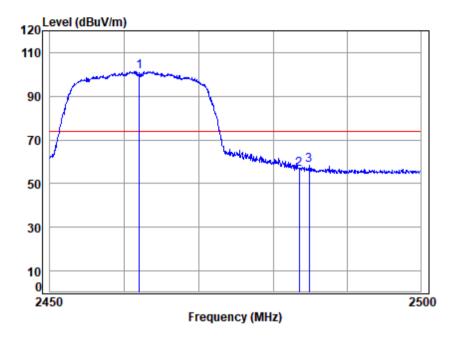
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2462 Band edge

	: Z.	4G WIF	T TIME	9					
		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	2462.000	26.03	28.90	32.74	79.27	101.46	74.00	27.46	Peak
	2483.500								
3	2484.844	26.04	28.90	32.73	36.17	58.38	74.00	-15.62	Peak



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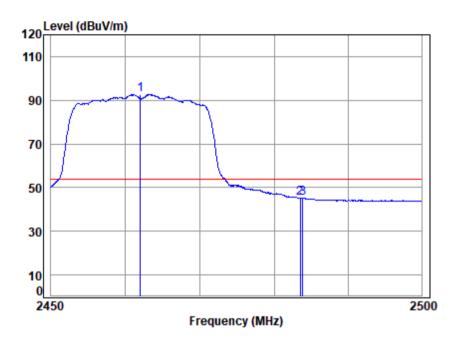


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2462 Band edge

: 2.4G WIFI 11N20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2462.000								_
2483.500 2483.840								_



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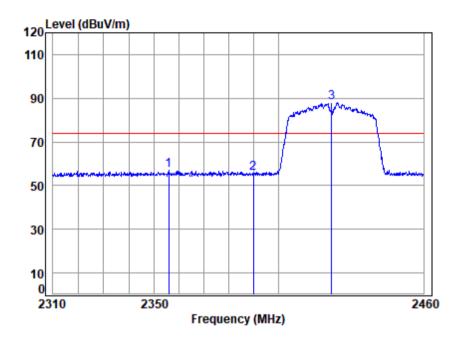


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Report No.: SZCR241200498802

Page: 44 of 160

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT : 2422 Band edge Mode

: 2.4G WIFI 11N40

				_						
				Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MH ₇	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB		
	2	45	45/	45	aba.	abar, iii	aba • /	45		
	2355.791	25.97	29.10	32.80	34.55	56.82	74.00	-17.18	peak	
	2390.000	25.99	29.10	32.78	33.44	55.75	74.00	-18.25	peak	
;	p 2422.000	26.01	29.01	32.76	65.65	87.91	74.00	13.91	peak	



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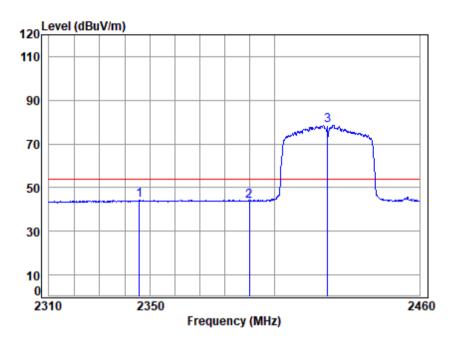


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

Page: 45 of 160

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT : 2422 Band edge Mode

: 2.4G WIFI 11N40

					_					
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
		2345.734								_
2		2390.000	25.99	29.10	32.78	21.51	43.82	54.00	-10.18	Average
3	q	2422.000	26.01	29.01	32.76	56.39	78.65	54.00	24.65	Average



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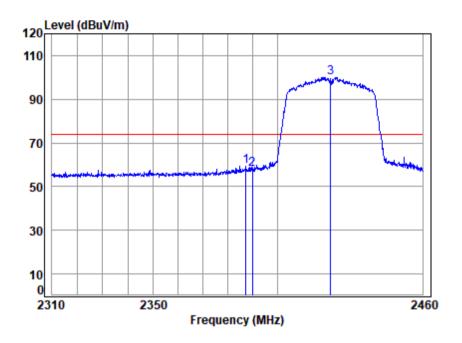
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Report No.: SZCR241200498802

Page: 46 of 160

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT : 2422 Band edge Mode

: 2.4G WIFI 11N40

Cable Ant Preamp Read Limit 0ver

Loss Factor Factor Limit Remark Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m

2387.423 25.99 29.10 32.78 36.90 74.00 -14.79 Peak 1 59.21 2390.000 25.99 29.10 32.78 35.64 57.95 74.00 -16.05 Peak 3 p 2422.000 26.01 29.01 32.76 77.70 99.96 74.00 25.96 Peak



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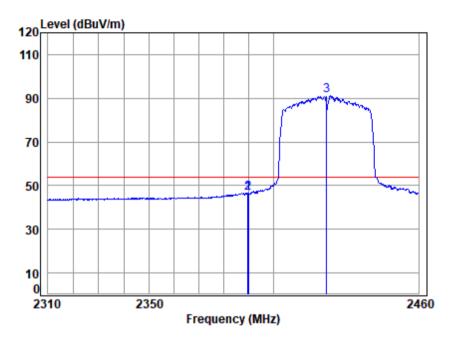
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Report No.: SZCR241200498802

Page: 47 of 160

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT : 2422 Band edge Mode

: 2.4G WIFI 11N40

	F	Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.	.827	25.99	29.10	32.78	24.44	46.75	54.00	-7.25	Average
2	2390.	.000	25.99	29.10	32.78	24.31	46.62	54.00	-7.38	Average
3	q 2422.	.000	26.01	29.01	32.76	68.94	91.20	54.00	37.20	Average



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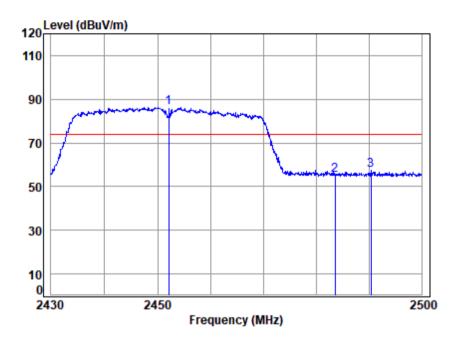


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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT : 2452 Band edge Mode

: 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	2452.000								-	
	2483.500	26.04	28.90	32.73	32.79	55.00	74.00	-19.00	peak	
3	2490.292	26.04	28.90	32.73	35.09	57.30	74.00	-16.70	peak	



1 2

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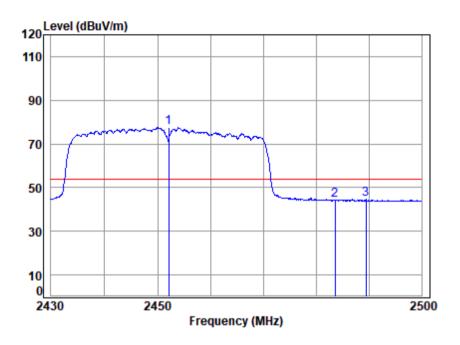


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2452 Band edge

: 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2452.000								_
2	2483.500	26.04	28.90	32.73	22.12	44.33	54.00	-9.67	Average
3	2489.373	26.04	28.90	32.73	22.32	44.53	54.00	-9.47	Average



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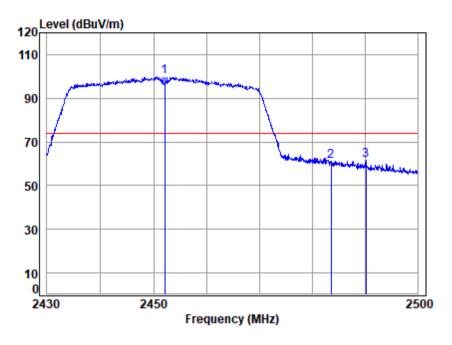
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Report No.: SZCR241200498802

Page: 50 of 160

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2452 Band edge

· 2 4G WTET 11N40

	. 2	+O MII	T TT//+/	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	
p	2452.000	26.02	28.90	32.75	77.60	99.77	74.00	25.77	Peak
	2483.500	26.04	28.90	32.73	38.78	60.99	74.00	-13.01	Peak
	2490 151	26 04	28 90	32 73	39 43	61 64	74 00	-12 36	Peak



1 2

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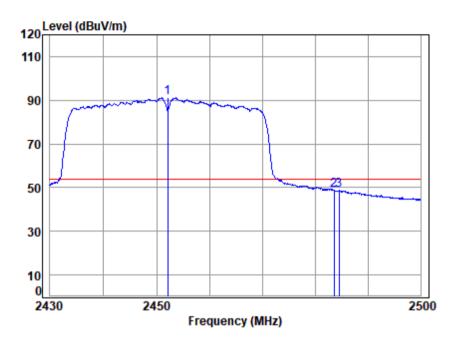


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT Mode : 2452 Band edge

: 2.4G WIFI 11N40

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2452.000	26.02	28.90	32.75	68.88	91.05	54.00	37.05	Average
2	2483.500	26.04	28.90	32.73	26.76	48.97	54.00	-5.03	Average
3	2484.429	26.04	28.90	32.73	26.43	48.64	54.00	-5.36	Average



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7.3 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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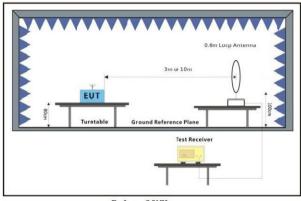


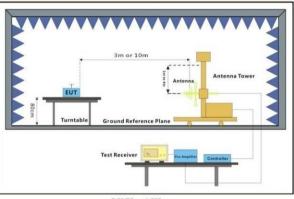
SZEMC-TRF-01 Rev. A/1

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7.3.3 Test Setup Diagram





Below 30MHz

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



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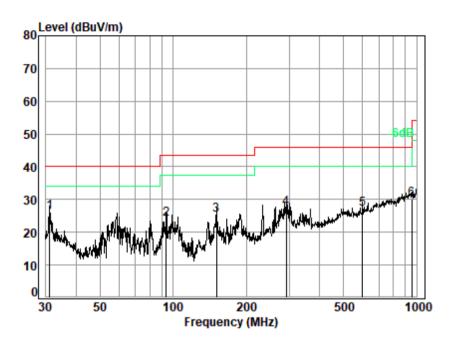
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Report No.: SZCR241200498802

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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 04988AT/04989AT

Test Mode: 00 : #2

	Enea	Ant Factor		Preamp					Romank	
	rreq	ractor	LUSS	ractor	rever	rever	LINE	LIMIT	Kelliark	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		_
1 q	31.071	20.71	0.68	27.79	32.49	26.09	40.00	-13.91	QP	
2	93.768	12.03	1.18	27.61	38.50	24.10	43.50	-19.40	QP	
3	150.538	13.10	1.54	27.38	37.97	25.23	43.50	-18.27	QP	
4	291.036	17.12	2.17	26.79	34.73	27.23	46.00	-18.77	QP	
5	599.321	24.42	3.24	27.97	27.41	27.10	46.00	-18.90	QP	
6	955.438	28.10	4.27	26.37	24.17	30.17	46.00	-15.83	OP	



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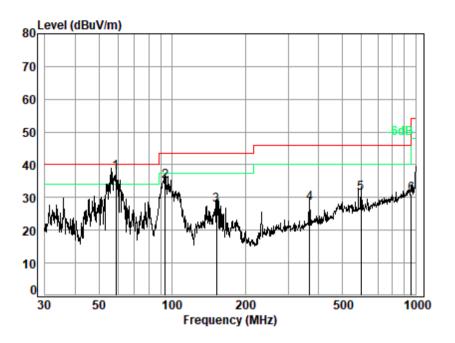


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Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 04988AT/04989AT

Test Mode: 00 : #2

	Freq	Ant Factor		Preamp Factor					Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	58.819	11.61	0.94	27.71	52.79	37.63	40.00	-2.37	QP
2	93.768	12.03	1.18	27.61	49.53	35.13	43.50	-8.37	QP
3	152.130	13.28	1.55	27.37	40.10	27.56	43.50	-15.94	QP
4	366.823	20.35	2.47	27.02	32.39	28.19	46.00	-17.81	QP
5	597.223	24.44	3.23	27.96	31.55	31.26	46.00	-14.74	QP
6	958.794	28.10	4.28	26.34	25.04	31.08	46.00	-14.92	OP



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7.4 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.4.1 E.U.T. Operation

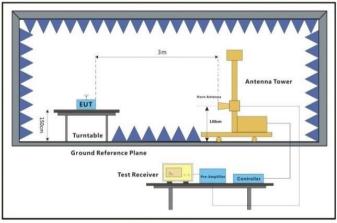
Operating Environment:

Temperature: 22.5 °C Humidity: 43.6 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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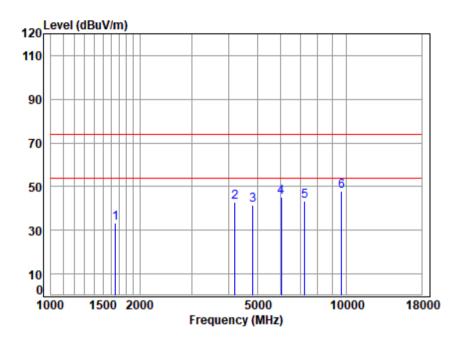


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1653.550	4.90	26.29	54.82	56.74	33.11	74.00	-40.89	peak
2		4193.872	8.28	33.80	54.28	54.97	42.77	74.00	-31.23	peak
3		4824.000	8.01	34.40	54.22	53.26	41.45	74.00	-32.55	peak
4		6036.421	9.49	34.97	53.10	53.90	45.26	74.00	-28.74	peak
5		7236.000	9.29	35.70	53.18	51.32	43.13	74.00	-30.87	peak
6	р	9648.000	11.38	37.50	53.34	52.21	47.75	74.00	-26.25	peak



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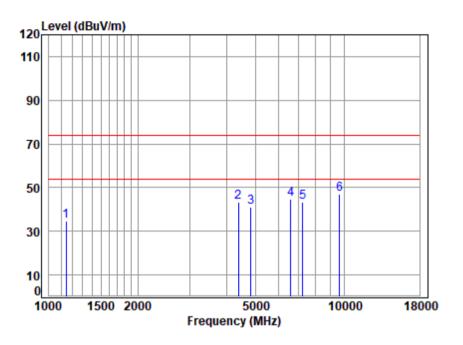
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1145.507	4.56	23.88	54.66	60.92	34.70	74.00	-39.30	peak
2		4392.376	8.00	34.74	54.26	54.77	43.25	74.00	-30.75	peak
3		4824.000	8.01	34.40	54.22	52.86	41.05	74.00	-32.95	peak
4		6583.209	9.21	35.37	53.16	53.21	44.63	74.00	-29.37	peak
5		7236.000	9.29	35.70	53.18	51.67	43.48	74.00	-30.52	peak
6	р	9648.000	11.38	37.50	53.34	51.55	47.09	74.00	-26.91	peak



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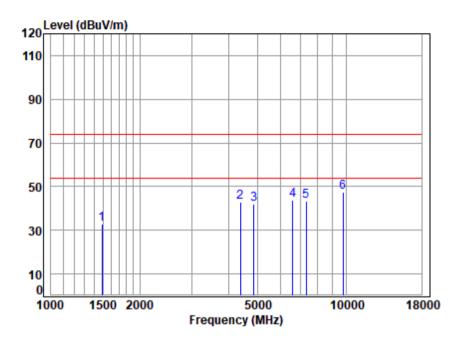


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1490.142	4.57	26.52	54.77	56.53	32.85	74.00	-41.15	peak
2		4392.376	8.00	34.74	54.26	54.48	42.96	74.00	-31.04	peak
3		4874.000	8.03	34.60	54.21	53.76	42.18	74.00	-31.82	peak
4		6602.265								•
5		7311.000	9.21	35.70	53.17	51.41	43.15	74.00	-30.85	peak
6	р	9748.000	11.32	37.40	53.30	52.04	47.46	74.00	-26.54	peak



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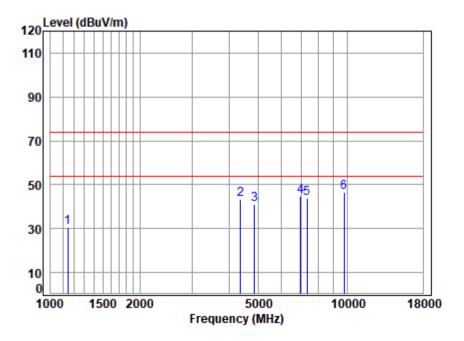


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 04988AT/04989AT

Mode : 2437 TX RSE

· 2 4G WTFT 11B

	. 2	+Q MII	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.56	23.88	54.66	56.98	30.76	74.00	-43.24	peak
2	4367.058	8.04	34.54	54.26	54.90	43.22	74.00	-30.78	peak
3	4874.000	8.03	34.60	54.21	52.64	41.06	74.00	-32.94	peak
4	6954.852	9.50	35.79	53.20	52.73	44.82	74.00	-29.18	peak
5	7311.000	9.21	35.70	53.17	51.98	43.72	74.00	-30.28	peak
6	p 9748.000	11.32	37.40	53.30	50.96	46.38	74.00	-27.62	peak



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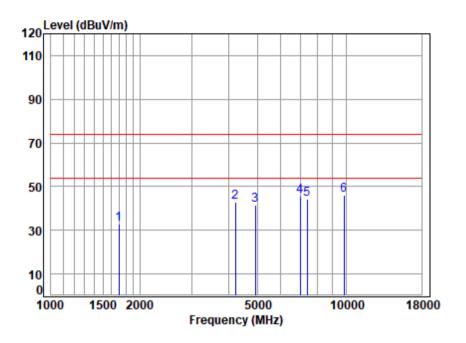


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.00	26.22	54.83	56.58	32.97	74.00	-41.03	peak
2	4218.186	8.24	33.80	54.28	55.28	43.04	74.00	-30.96	peak
3	4924.000	8.05	34.65	54.21	52.83	41.32	74.00	-32.68	peak
4	6995.172	9.53	35.71	53.20	53.62	45.66	74.00	-28.34	peak
5	7386.000	9.14	35.77	53.16	52.66	44.41	74.00	-29.59	peak
6	p 9848.000	11.27	37.20	53.26	50.90	46.11	74.00	-27.89	peak



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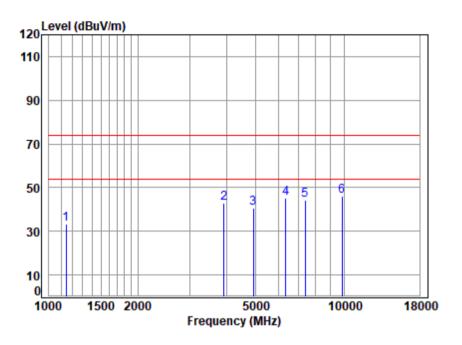


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.56	23.88	54.66	59.47	33.25	74.00	-40.75	peak
2	3912.809	8.28	33.72	54.35	55.32	42.97	74.00	-31.03	peak
3	4924.000	8.05	34.65	54.21	52.16	40.65	74.00	-33.35	peak
4	6340.436	9.26	34.92	53.14	54.25	45.29	74.00	-28.71	peak
5	7386.000	9.14	35.77	53.16	52.64	44.39	74.00	-29.61	peak
6	p 9848.000	11.27	37.20	53.26	50.85	46.06	74.00	-27.94	peak



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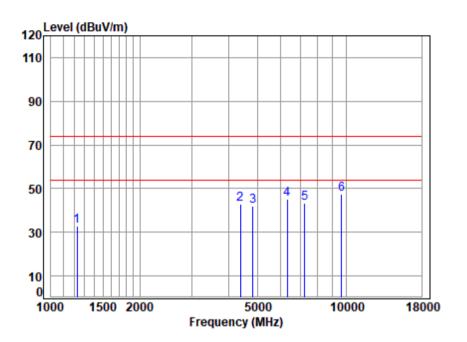


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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	4.56	24.79	54.69	58.24	32.90	74.00	-41.10	peak
2	4379.699	8.02	34.64	54.26	54.35	42.75	74.00	-31.25	peak
3	4824.000	8.01	34.40	54.22	53.98	42.17	74.00	-31.83	peak
4	6322.136	9.27	34.96	53.13	54.29	45.39	74.00	-28.61	peak
5	7236.000	9.29	35.70	53.18	51.73	43.54	74.00	-30.46	peak
6	p 9648.000	11.38	37.50	53.34	52.13	47.67	74.00	-26.33	peak



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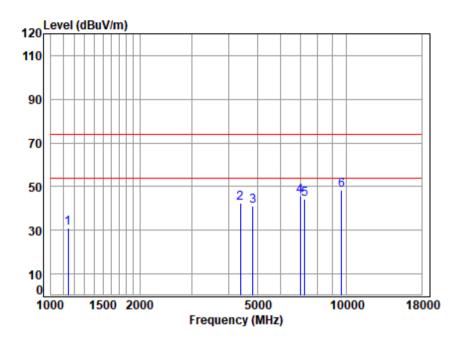
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver		
	Fr	eq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	M	lHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1145.5	07	4.56	23.88	54.66	57.20	30.98	74.00	-43.02	peak	
2	4379.6	99	8.02	34.64	54.26	54.23	42.63	74.00	-31.37	peak	
3	4824.0	00	8.01	34.40	54.22	52.90	41.09	74.00	-32.91	peak	
4	6995.1	72	9.53	35.71	53.20	53.58	45.62	74.00	-28.38	peak	
5	7236.0	00	9.29	35.70	53.18	52.27	44.08	74.00	-29.92	peak	
6	p 9648.0	00	11.38	37.50	53.34	52.82	48.36	74.00	-25.64	peak	



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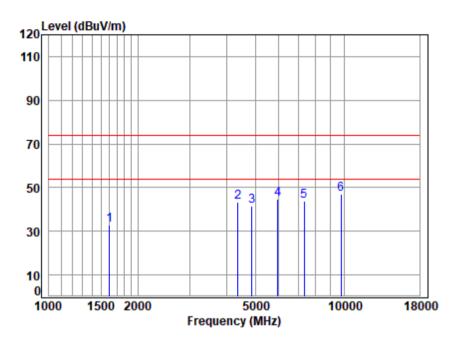


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
								•		
1		1606.441	4.80	26.74	54.81	56.05	32.78	74.00	-41.22	peak
2		4367.058	8.04	34.54	54.26	55.07	43.39	74.00	-30.61	peak
3		4874.000	8.03	34.60	54.21	53.16	41.58	74.00	-32.42	peak
4		5967.033	9.51	34.77	53.13	53.38	44.53	74.00	-29.47	peak
5		7311.000	9.21	35.70	53.17	51.95	43.69	74.00	-30.31	peak
6	р	9748.000	11.32	37.40	53.30	51.55	46.97	74.00	-27.03	peak



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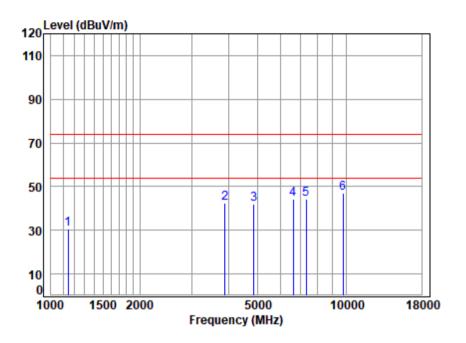


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1145.507	4.56	23.88	54.66	56.90	30.68	74.00	-43.32	peak
2		3890.255	8.21	33.66	54.37	54.89	42.39	74.00	-31.61	peak
3		4874.000	8.03	34.60	54.21	53.50	41.92	74.00	-32.08	peak
4		6621.375	9.24	35.26	53.16	53.06	44.40	74.00	-29.60	peak
5		7311.000	9.21	35.70	53.17	52.31	44.05	74.00	-29.95	peak
6	р	9748.000	11.32	37.40	53.30	51.59	47.01	74.00	-26.99	peak



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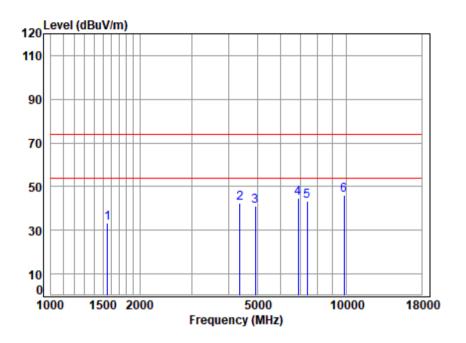


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1551.677	4.68	26.99	54.79	56.25	33.13	74.00	-40.87	peak
2		4367.058	8.04	34.54	54.26	54.05	42.37	74.00	-31.63	peak
3		4924.000	8.05	34.65	54.21	52.62	41.11	74.00	-32.89	peak
4		6874.906	9.44	35.55	53.19	52.99	44.79	74.00	-29.21	peak
5		7386.000	9.14	35.77	53.16	51.38	43.13	74.00	-30.87	peak
6	р	9848.000	11.27	37.20	53.26	50.79	46.00	74.00	-28.00	peak



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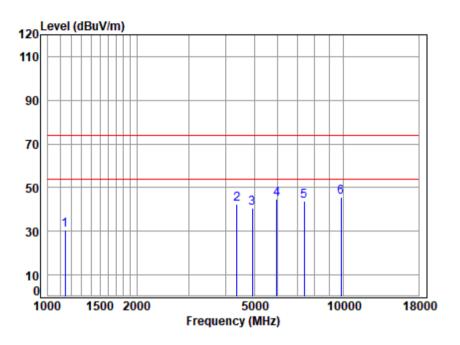
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.56	23.88	54.66	56.77	30.55	74.00	-43.45	peak
2	4367.058	8.04	34.54	54.26	54.09	42.41	74.00	-31.59	peak
3	4924.000	8.05	34.65	54.21	52.12	40.61	74.00	-33.39	peak
4	5967.033	9.51	34.77	53.13	53.76	44.91	74.00	-29.09	peak
5	7386.000	9.14	35.77	53.16	51.83	43.58	74.00	-30.42	peak
6	p 9848.000	11.27	37.20	53.26	50.58	45.79	74.00	-28.21	peak



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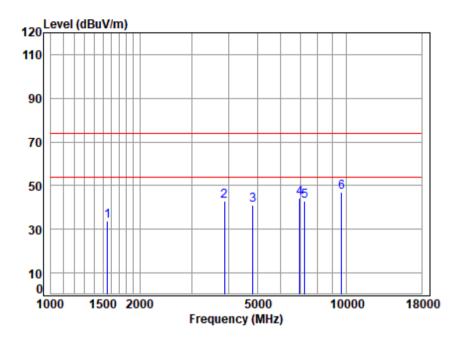


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1556.169	4.69	26.98	54.79	57.02	33.90	74.00	-40.10	peak
2		3879.027	8.18	33.51	54.37	55.79	43.11	74.00	-30.89	peak
3		4824.000	8.01	34.40	54.22	52.83	41.02	74.00	-32.98	peak
4		6954.852	9.50	35.79	53.20	52.05	44.14	74.00	-29.86	peak
5		7236.000	9.29	35.70	53.18	51.18	42.99	74.00	-31.01	peak
6	р	9648.000	11.38	37.50	53.34	51.52	47.06	74.00	-26.94	peak



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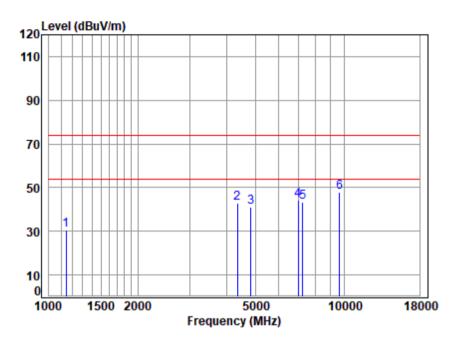
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

1 21 10 1121 221120										
			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	1149	5.507	4.56	23.88	54.66	56.71	30.49	74.00	-43.51	peak
2	4354	4.454	8.06	34.44	54.26	54.56	42.80	74.00	-31.20	peak
3	4824	4.000	8.01	34.40	54.22	52.69	40.88	74.00	-33.12	peak
4	699	5.172	9.53	35.71	53.20	52.30	44.34	74.00	-29.66	peak
5	7236	5.000	9.29	35.70	53.18	51.75	43.56	74.00	-30.44	peak
6	p 9648	3.000	11.38	37.50	53.34	52.42	47.96	74.00	-26.04	peak



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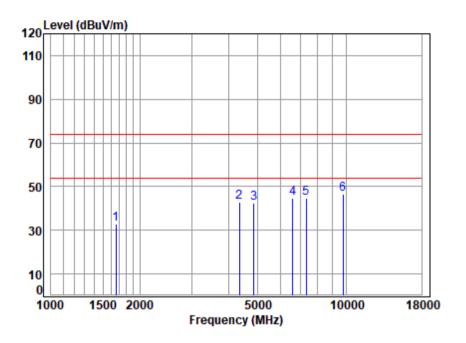


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	4.91	26.28	54.82	56.30	32.67	74.00	-41.33	peak
2	4354.454	8.06	34.44	54.26	54.53	42.77	74.00	-31.23	peak
3	4874.000	8.03	34.60	54.21	54.08	42.50	74.00	-31.50	peak
4	6602.265	9.22	35.30	53.16	53.46	44.82	74.00	-29.18	peak
5	7311.000	9.21	35.70	53.17	52.96	44.70	74.00	-29.30	peak
	9748.000	11.32	37.40	53.30	51.15	46.57	74.00	-27.43	peak



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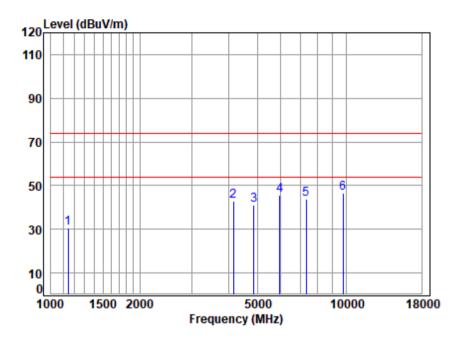


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1145.507	4.56	23.88	54.66	56.81	30.59	74.00	-43.41	peak
2		4157.664	8.33	33.80	54.28	55.14	42.99	74.00	-31.01	peak
3		4874.000	8.03	34.60	54.21	52.81	41.23	74.00	-32.77	peak
4		5949.811	9.50	34.70	53.15	54.57	45.62	74.00	-28.38	peak
5		7311.000	9.21	35.70	53.17	51.92	43.66	74.00	-30.34	peak
6	р	9748.000	11.32	37.40	53.30	51.15	46.57	74.00	-27.43	peak



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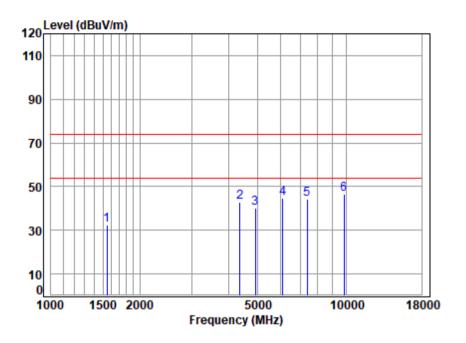


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	4.67	26.99	54.79	55.73	32.60	74.00	-41.40	peak
2	4367.058								•
3	4924.000								•
4	6106.616								•
5									•
6	9848.000								•



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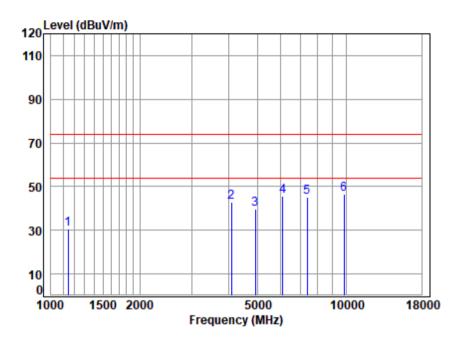
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.56	23.88	54.66	56.86	30.64	74.00	-43.36	peak
2	4086.182	8.43	32.86	54.29	55.90	42.90	74.00	-31.10	peak
3	4924.000	8.05	34.65	54.21	51.11	39.60	74.00	-34.40	peak
4	6088.991	9.45	35.08	53.11	53.98	45.40	74.00	-28.60	peak
5	7386.000	9.14	35.77	53.16	53.44	45.19	74.00	-28.81	peak
6	p 9848.000	11.27	37.20	53.26	51.51	46.72	74.00	-27.28	peak



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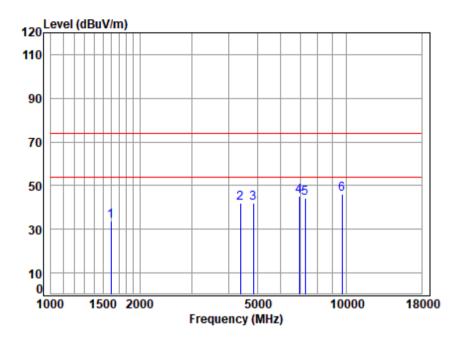


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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT Mode : 2422 TX RSE

: 2.4G WIFI 11N40

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1597.181	4.78	26.81	54.80	57.07	33.86	74.00	-40.14	peak
2		4392.376	8.00	34.74	54.26	53.72	42.20	74.00	-31.80	peak
3		4844.000	8.01	34.48	54.21	53.64	41.92	74.00	-32.08	peak
4		6934.778								•
5										•
6	р	9688.000								•



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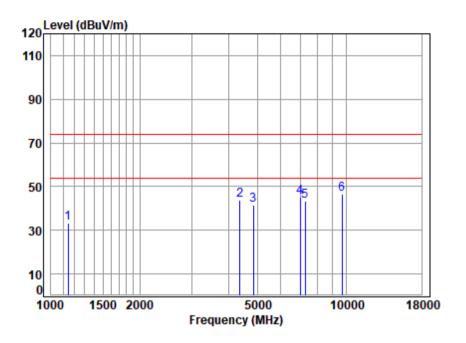
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2422 TX RSE

: 2.4G WIFI 11N40

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.56	23.88	54.66	59.46	33.24	74.00	-40.76	peak
2	4367.058	8.04	34.54	54.26	55.58	43.90	74.00	-30.10	peak
3	4844.000								•
4	6995.172								•
5	7266.000								•
	9688.000								•



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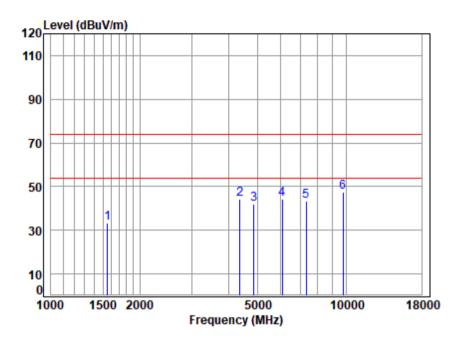
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Report No.: SZCR241200498802

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



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT : 2437 TX RSE Mode

: 2.4G WIFI 11N40

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Limit Remark Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1556.169 4.69 26.98 54.79 56.63 33.51 74.00 -40.49 peak 1 4367.058 8.04 34.54 54.26 55.85 44.17 74.00 -29.83 peak 2 34.60 54.21 53.61 42.03 74.00 -31.97 peak 3 4874.000 8.03 4 6071.417 9.46 35.04 53.11 52.83 44.22 74.00 -29.78 peak 9.21 35.70 53.17 51.67 43.41 74.00 -30.59 peak 7311.000 11.32 37.40 53.30 51.90 47.32 74.00 -26.68 peak 6 p 9748.000



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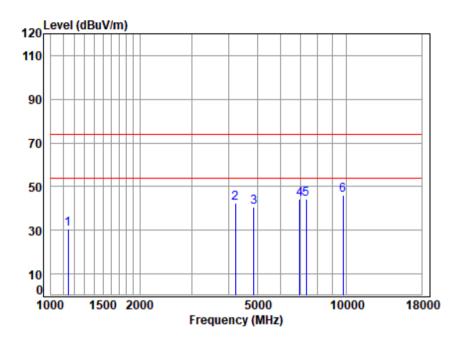


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N40

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.56	23.88	54.66	56.74	30.52	74.00	-43.48	peak
2	4218.186	8.24	33.80	54.28	54.58	42.34	74.00	-31.66	peak
3	4874.000	8.03	34.60	54.21	52.17	40.59	74.00	-33.41	peak
4	6954.852	9.50	35.79	53.20	52.21	44.30	74.00	-29.70	peak
5	7311.000	9.21	35.70	53.17	52.36	44.10	74.00	-29.90	peak
6	p 9748.000	11.32	37.40	53.30	50.81	46.23	74.00	-27.77	peak



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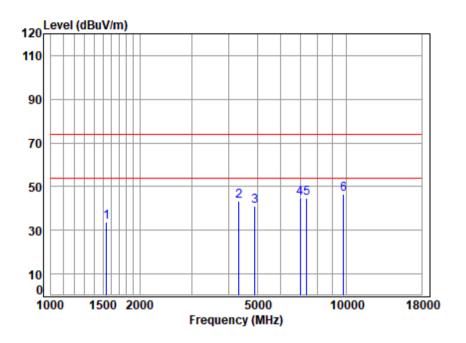


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 04988AT/04989AT

Mode : 2452 TX RSE

: 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1542.733	4.66	26.97	54.79	57.10	33.94	74.00	-40.06	peak
2	4329.354	8.09	34.23	54.26	55.37	43.43	74.00	-30.57	peak
3	4904.000	8.04	34.69	54.21	52.41	40.93	74.00	-33.07	peak
4	6995.172	9.53	35.71	53.20	52.51	44.55	74.00	-29.45	peak
5	7356.000	9.17	35.71	53.16	52.79	44.51	74.00	-29.49	peak
6	p 9808.000	11.29	37.28	53.27	51.13	46.43	74.00	-27.57	peak



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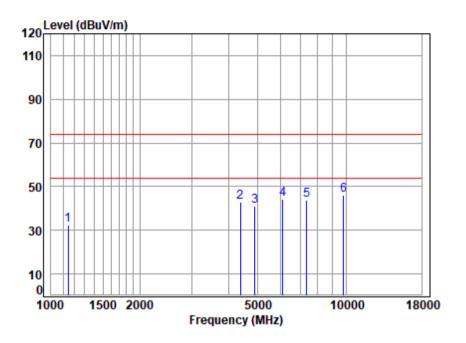


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 04988AT/04989AT

Mode : 2452 TX RSE

: 2.4G WIFI 11N40

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1145.507	4.56	23.88	54.66	58.47	32.25	74.00	-41.75	peak
2	4379.699	8.02	34.64	54.26	54.31	42.71	74.00	-31.29	peak
3	4904.000	8.04	34.69	54.21	52.52	41.04	74.00	-32.96	peak
4	6106.616	9.44	35.07	53.11	53.06	44.46	74.00	-29.54	peak
5	7356.000	9.17	35.71	53.16	52.13	43.85	74.00	-30.15	peak
6	p 9808.000	11.29	37.28	53.27	50.71	46.01	74.00	-27.99	peak



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7.5 Conducted Peak Output Power

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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 47.8 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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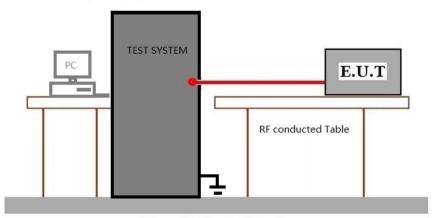
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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

7.6.1 E.U.T. Operation

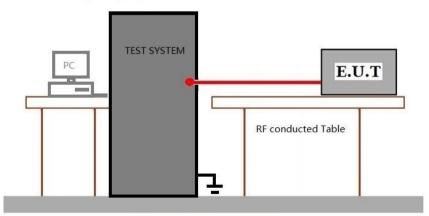
Operating Environment:

Temperature: 21.7 °C Humidity: 47.8 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.6.3 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 Power Spectrum Density

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

Limit:

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

7.7.1 E.U.T. Operation

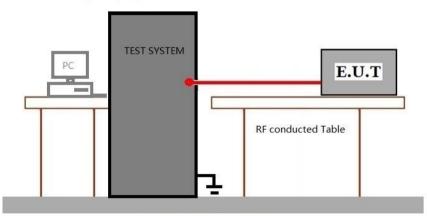
Operating Environment:

Temperature: 21.7 °C Humidity: 47.8 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

	The root mode boothpron								
Pre-scan / Final test	Mode Code	Description							
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.							

7.7.3 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 Conducted Band Edges Measurement

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

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 47.8 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

		· ·
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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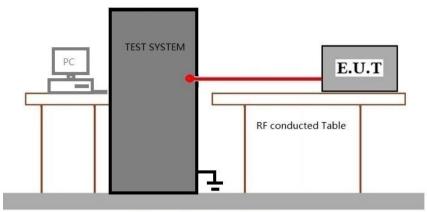
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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 Conducted Spurious Emissions

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

Limit:

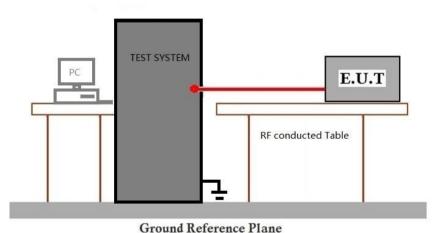
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 47.8 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Setup Diagram



7.9.3 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 SZCR2412004988AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2412004988AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1									
Mode	TX Frequency Type (MHz)		T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
802.11b		2412	100.000	100.000	100.00	0.00	0.00		
	SISO	2437	100.000	100.000	100.00	0.00	0.00		
		2462	100.000	100.000	100.00	0.00	0.00		
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00		
		2437	100.000	100.000	100.00	0.00	0.00		
		2462	100.000	100.000	100.00	0.00	0.00		
802.11n (HT20)	MIMO	2412	100.000	100.000	100.00	0.00	0.00		
		2437	100.000	100.000	100.00	0.00	0.00		
		2462	100.000	100.000	100.00	0.00	0.00		
802.11n (HT40)		2422	100.000	100.000	100.00	0.00	0.00		
	MIMO	2437	100.000	100.000	100.00	0.00	0.00		
		2452	100.000	100.000	100.00	0.00	0.00		



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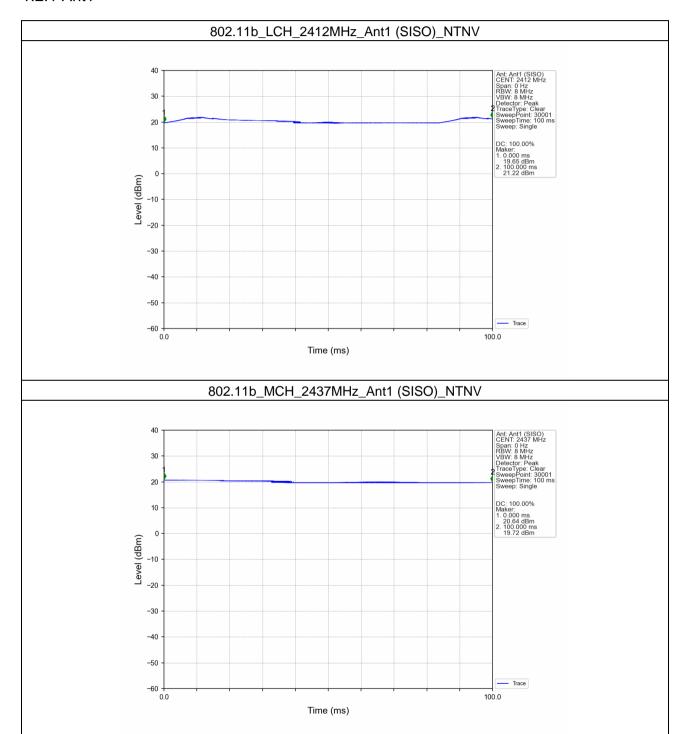


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1.2 Test Graph

1.2.1 Ant1





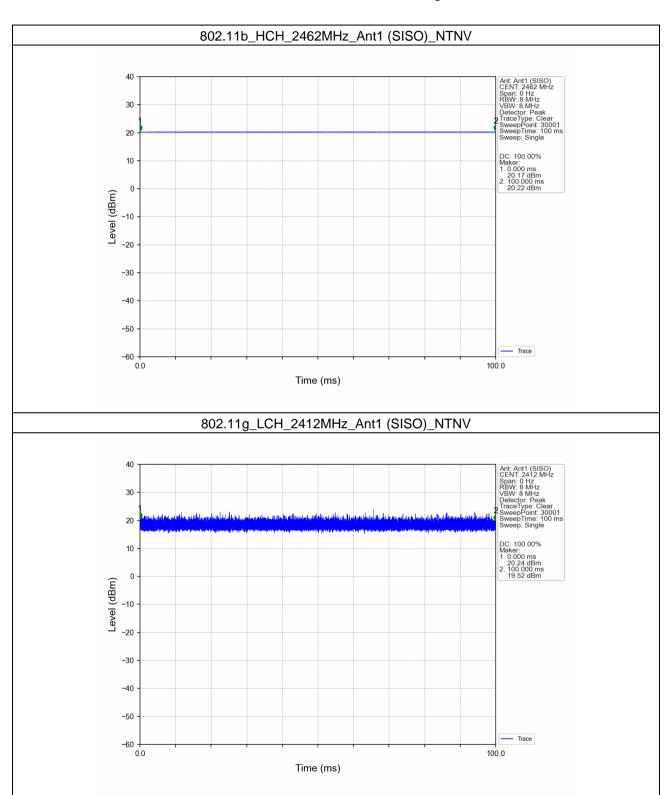
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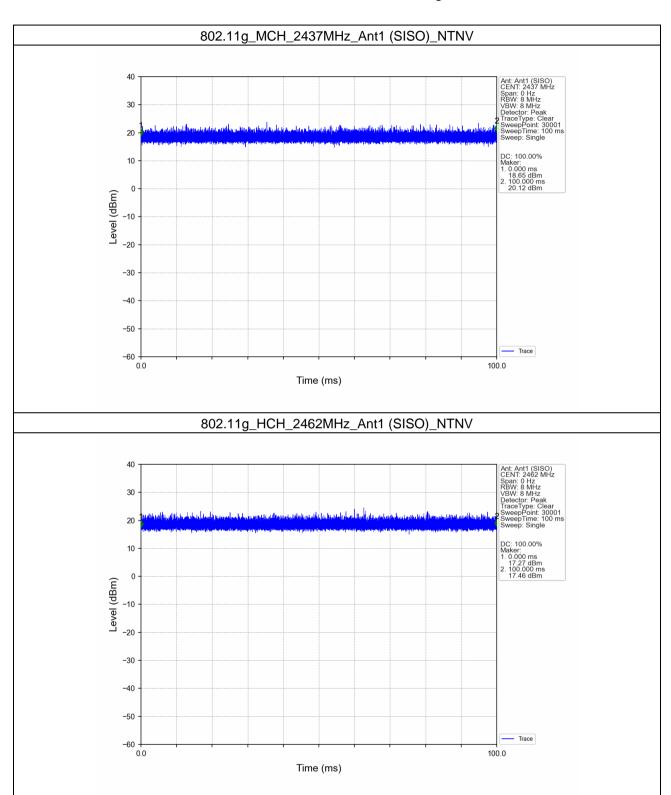
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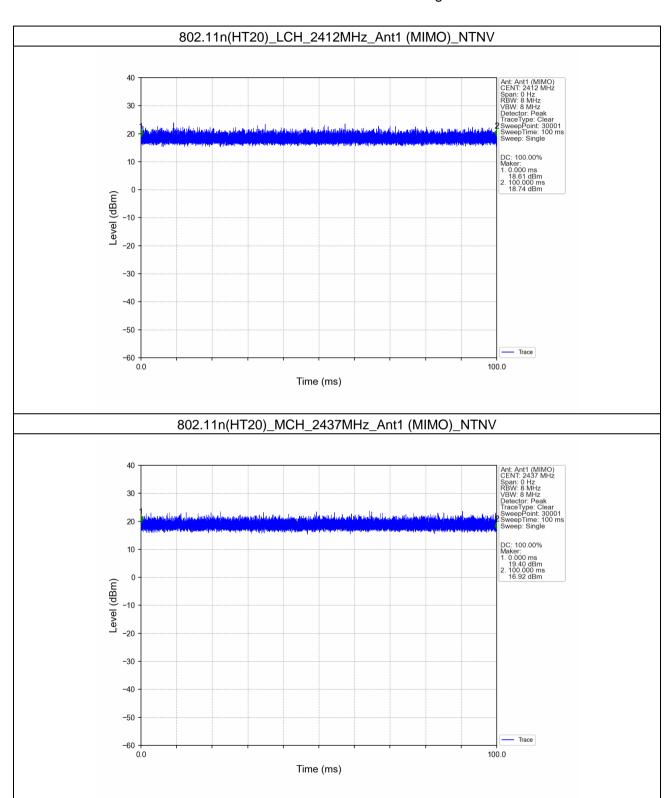
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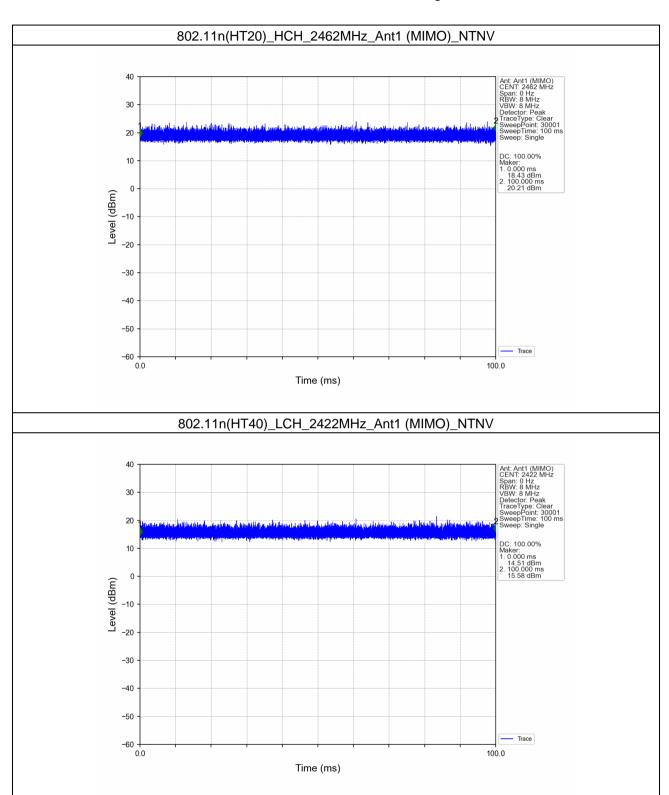
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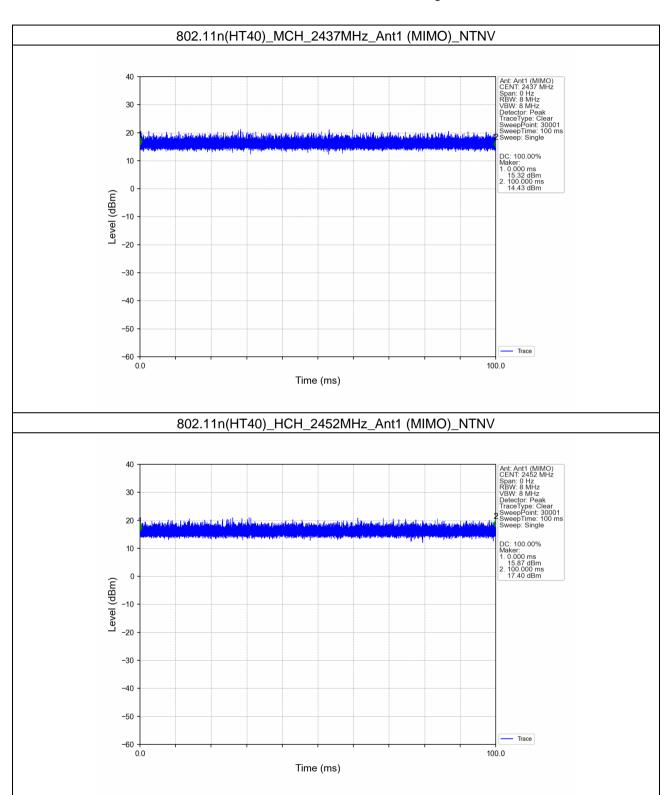
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANIT	99% Occupied E	\/owdiat		
	Type	(MHz)	ANT	Result	Limit	Verdict	
	SISO	2412	1	14.469	/	Pass	
802.11b		2437	1	14.500	/	Pass	
		2462	1	14.490	/	Pass	
	SISO	2412	1	17.490	/	Pass	
802.11g		2437	1	17.532	/	Pass	
		2462	1	17.484	/	Pass	
	MIMO	2412	1	18.209	/	Pass	
802.11n (HT20)		2437	1	18.199	/	Pass	
		2462	1	18.201	/	Pass	
802.11n (HT40)	MIMO		2422	1	36.540	/	Pass
		2437	1	36.621	/	Pass	
				2452	1	36.542	/

2.1.2 6dB BW

Mode	TX	Frequency	ANT	6dB Bandw	\/ordigt		
	Type	(MHz)		Result	Limit	Verdict	
	SISO	2412	1	9.557	>=0.5	Pass	
802.11b		2437	1	10.022	>=0.5	Pass	
		2462	1	9.618	>=0.5	Pass	
	SISO	2412	1	16.350	>=0.5	Pass	
802.11g		2437	1	16.362	>=0.5	Pass	
		2462	1	16.352	>=0.5	Pass	
222.44	MIMO	2412	1	17.555	>=0.5	Pass	
802.11n (HT20)		MIMO	2437	1	17.562	>=0.5	Pass
(11120)		2462	1	17.602	>=0.5	Pass	
802.11n (HT40)	MIMO	2422	1	36.043	>=0.5	Pass	
		MIMO	2437	1	35.697	>=0.5	Pass
		2452	1	35.869	>=0.5	Pass	



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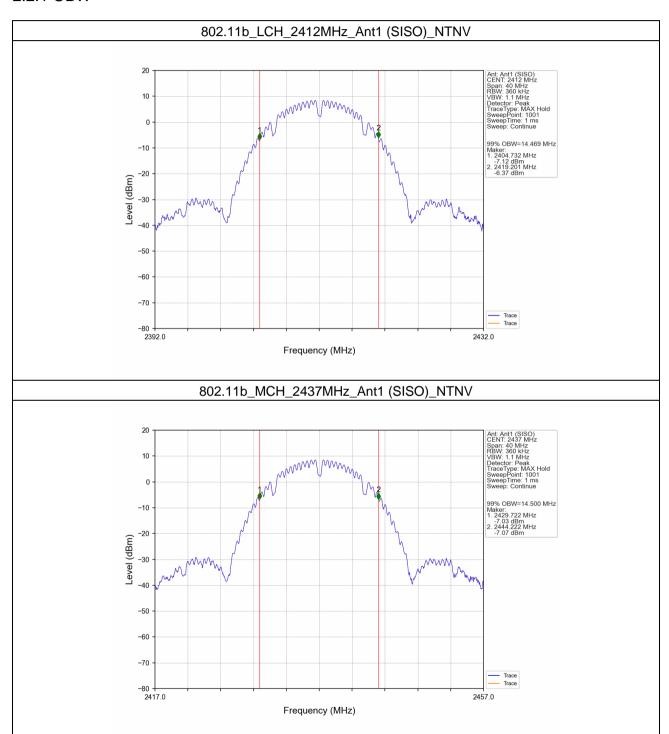
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2.2 Test Graph

2.2.1 OBW





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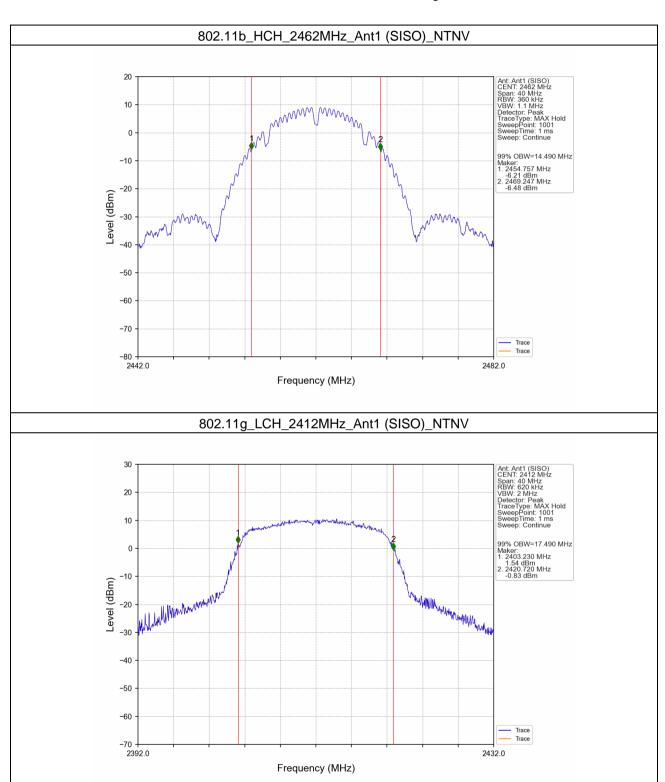
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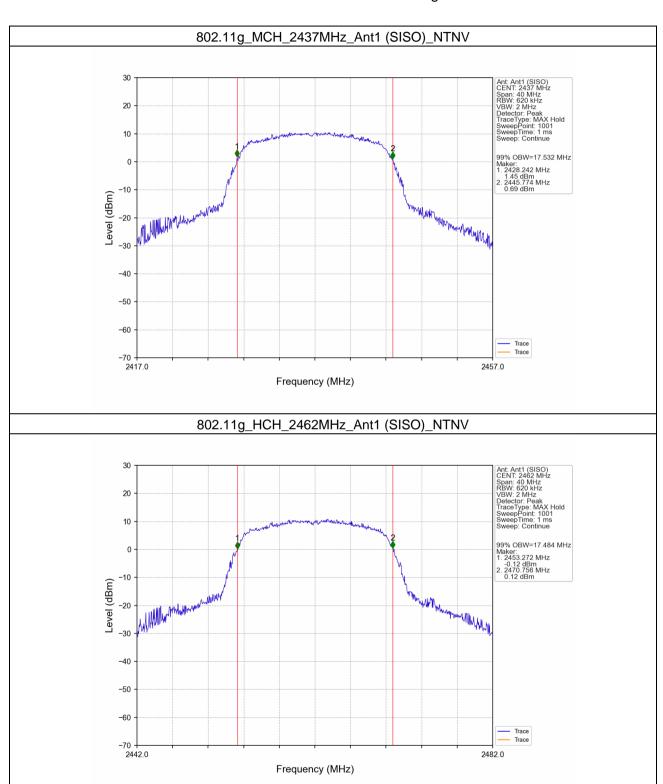
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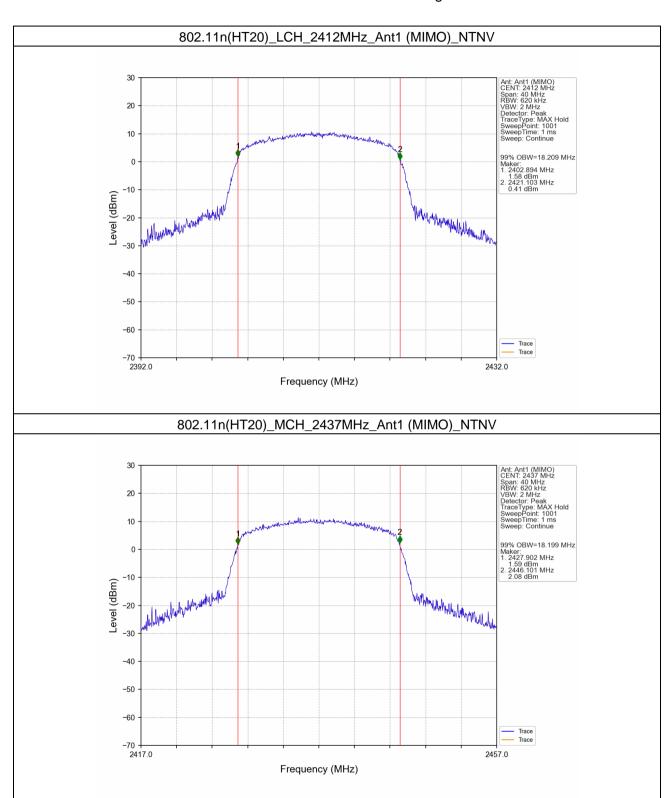
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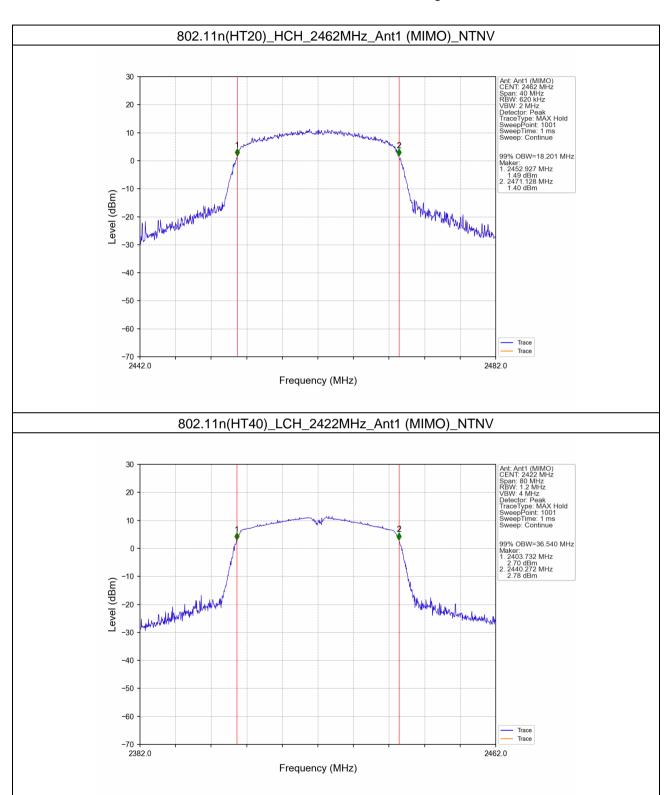
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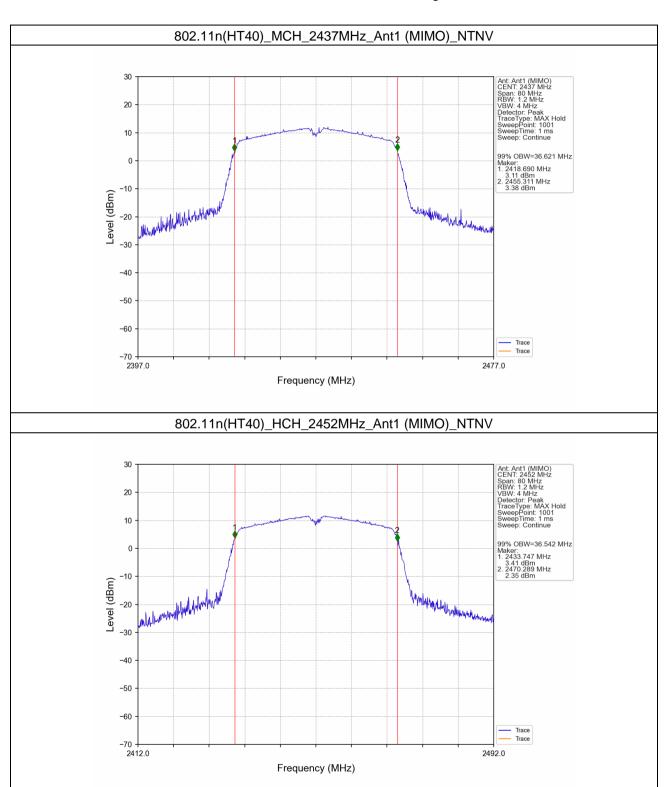
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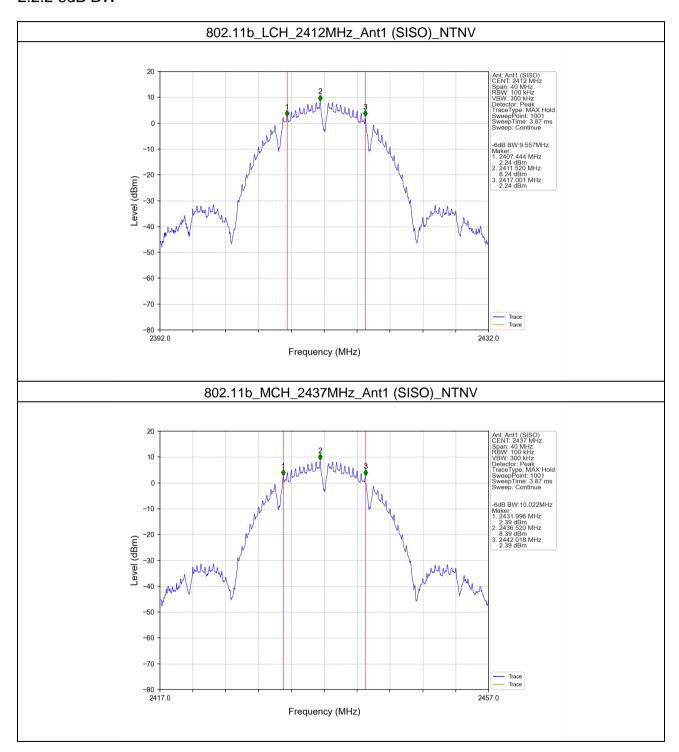


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2.2.2 6dB BW





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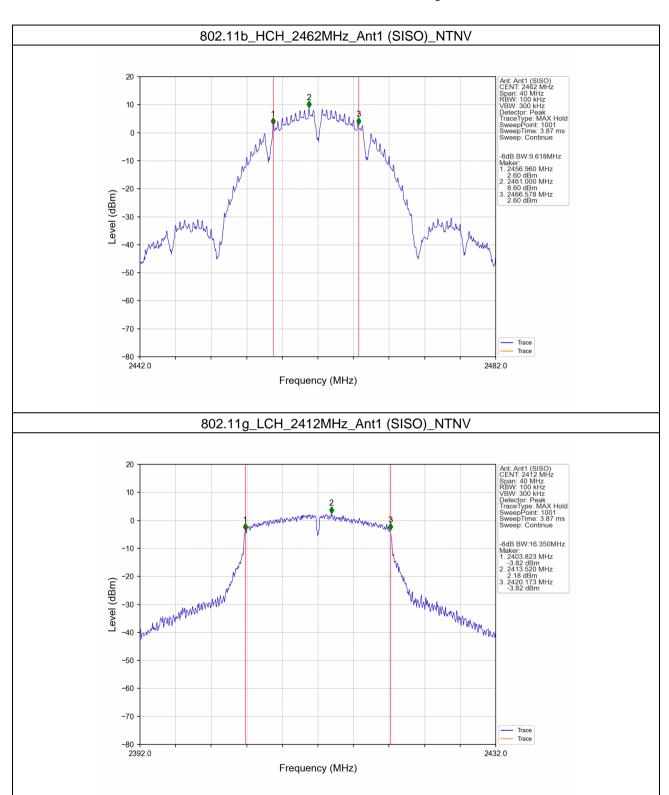
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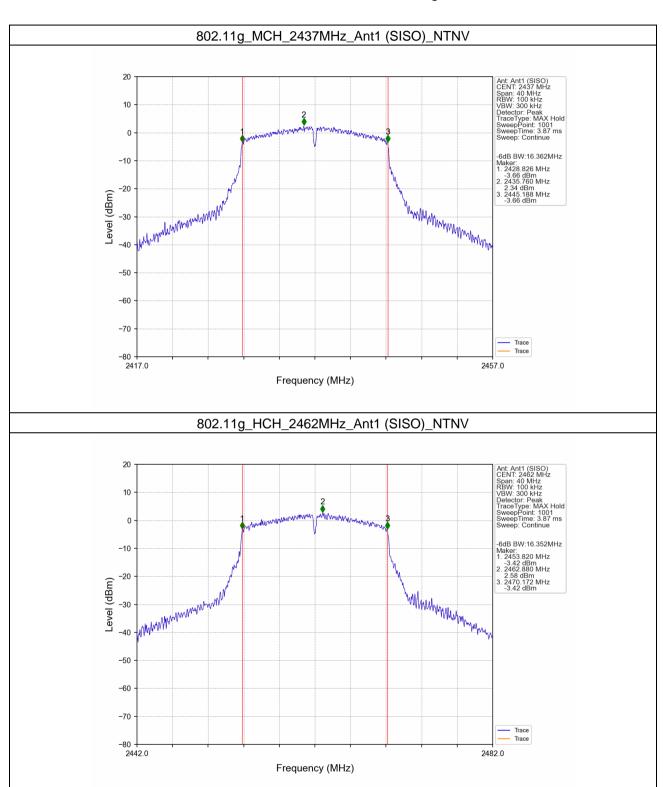
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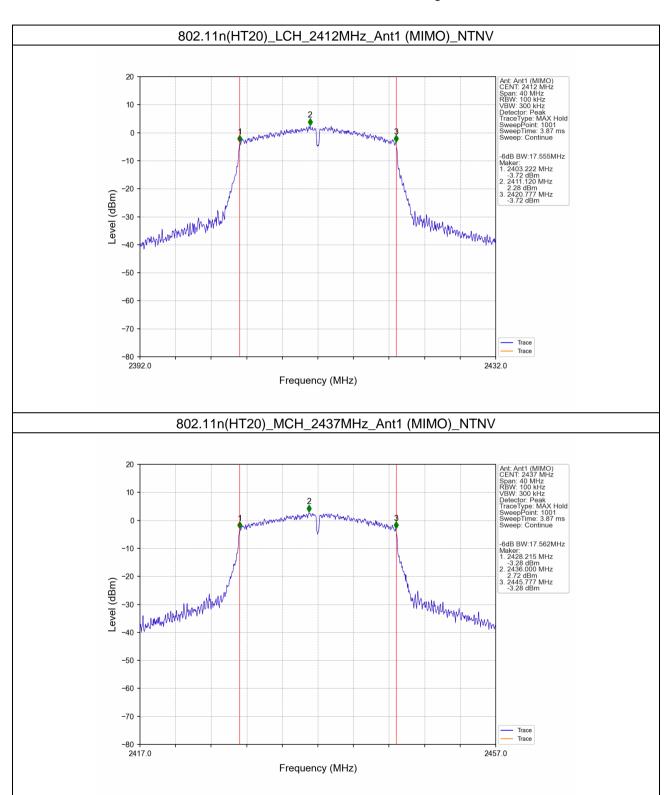
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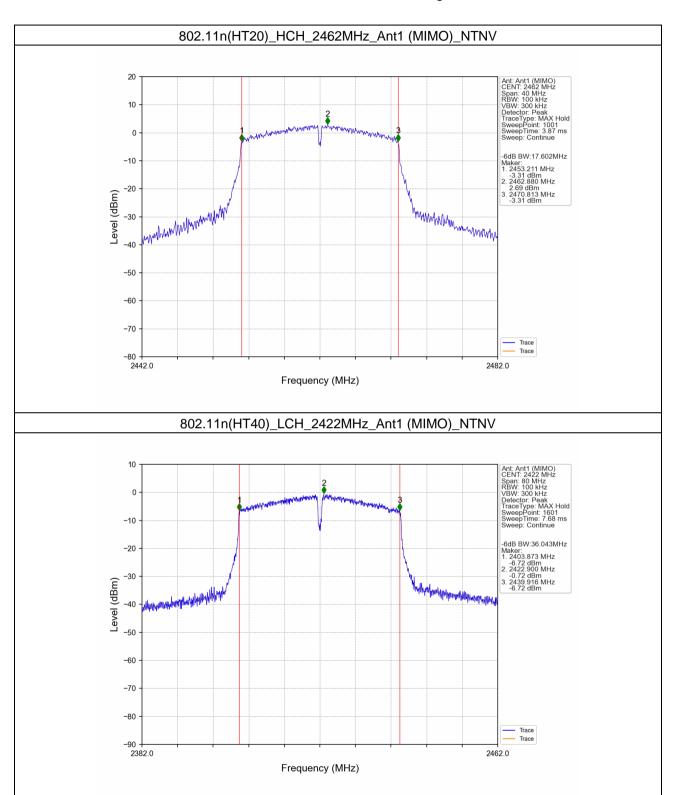
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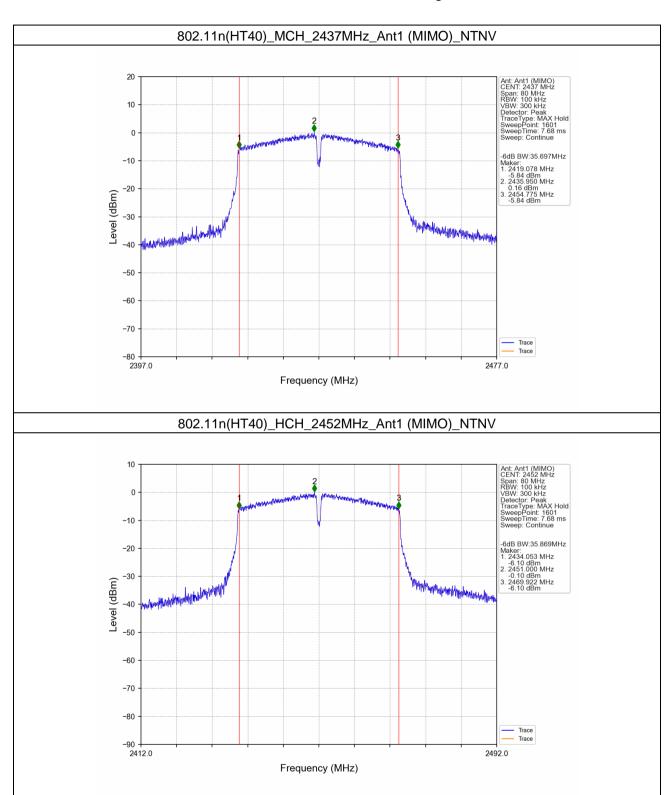
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency	Maximum A	\/ordiot					
iviode		Type	Type	Туре	(MHz)	ANT1	ANT2	MIMO	Limit
802.11b	SISO	2412	7.73	6.81	/	<=30	Pass		
		2437	7.85	7.01	/	<=30	Pass		
		2462	8.08	7.83	/	<=30	Pass		
	SISO	2412	8.39	7.96	/	<=30	Pass		
802.11g		2437	8.37	8.24	/	<=30	Pass		
		2462	7.24	7.06	/	<=30	Pass		
802.11n (HT20)	МІМО	2412	8.00	7.59	10.81	<=30	Pass		
		2437	8.11	7.66	10.90	<=30	Pass		
		2462	8.26	8.57	11.43	<=30	Pass		
802.11n (HT40)	MIMO	2422	8.31	7.41	10.89	<=30	Pass		
		2437	8.69	7.50	11.15	<=30	Pass		
		2452	8.43	8.00	11.23	<=30	Pass		



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency	ſ	Vardiet			
		(MHz)	ANT1	ANT2	MIMO	Limit	Verdict
802.11b	SISO	2412	-14.85	-16.18	/	<=8	Pass
		2437	-14.62	-15.88	/	<=8	Pass
		2462	-14.77	-15.11	/	<=8	Pass
	SISO	2412	-16.32	-16.78	/	<=8	Pass
802.11g		2437	-15.87	-15.09	/	<=8	Pass
		2462	-15.47	-15.64	/	<=8	Pass
222.44	MIMO	2412	-16.67	-17.10	-14.64	<=8	Pass
802.11n (HT20)		2437	-16.02	-15.65	-14.04	<=8	Pass
		2462	-15.31	-16.31	-13.63	<=8	Pass
802.11n (HT40)	MIMO	2422	-18.18	-19.90	-16.39	<=8	Pass
		2437	-18.77	-20.21	-17.47	<=8	Pass
		2452	-17.06	-18.63	-16.21	<=8	Pass



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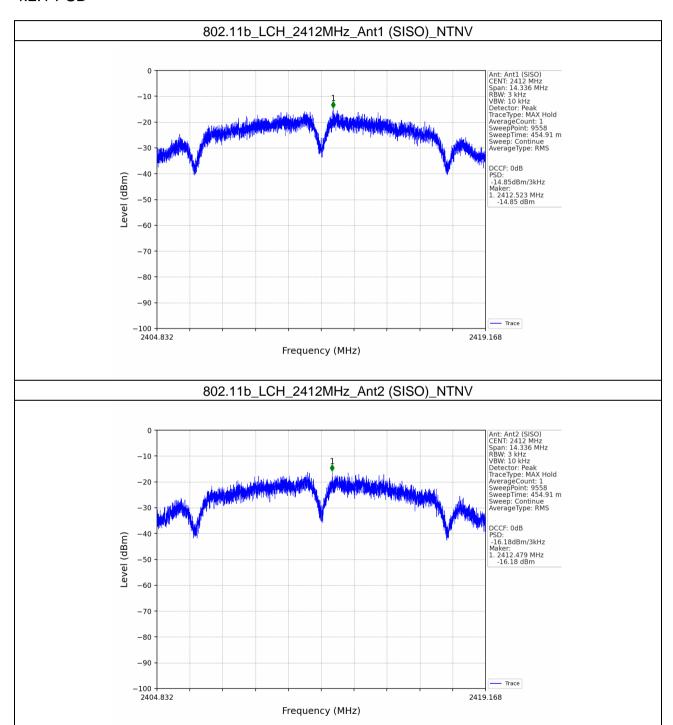


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4.2 Test Graph

4.2.1 PSD





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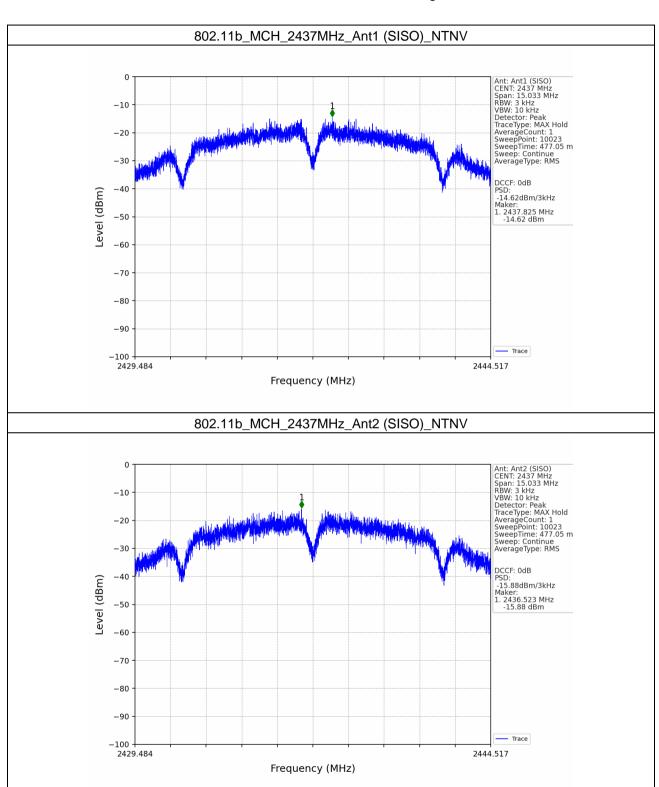
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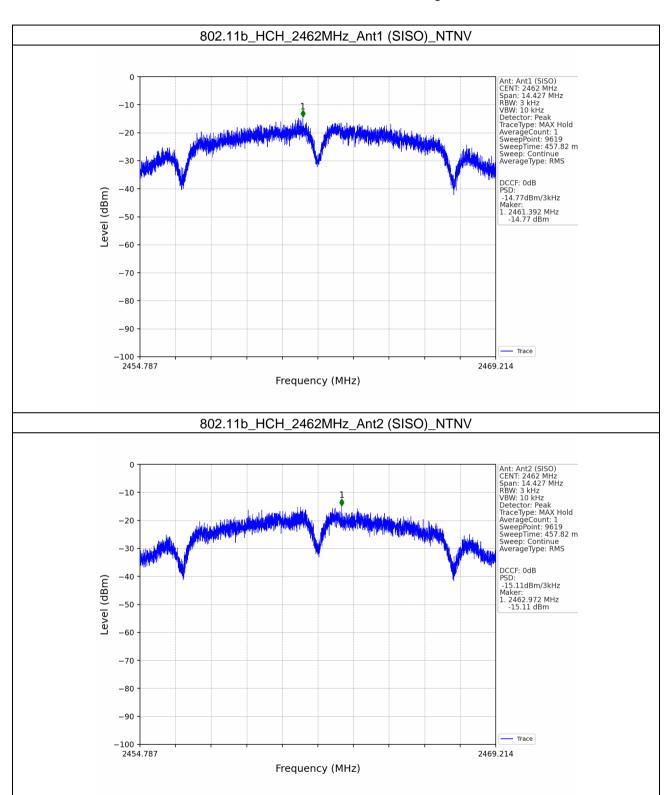
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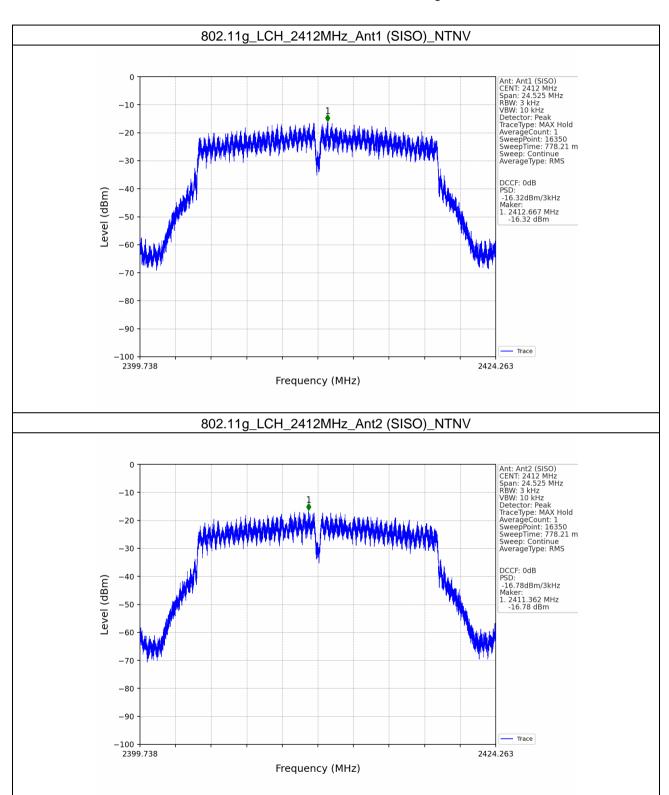
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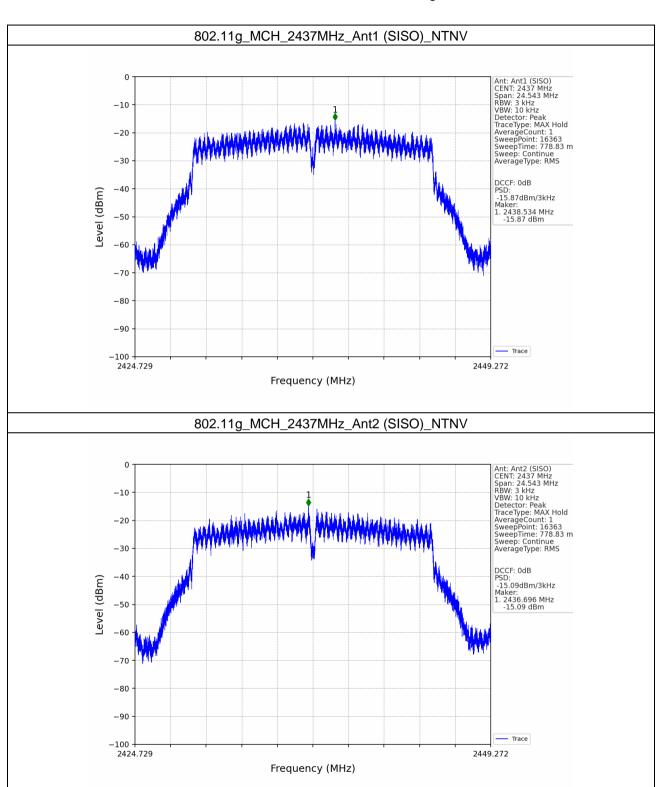
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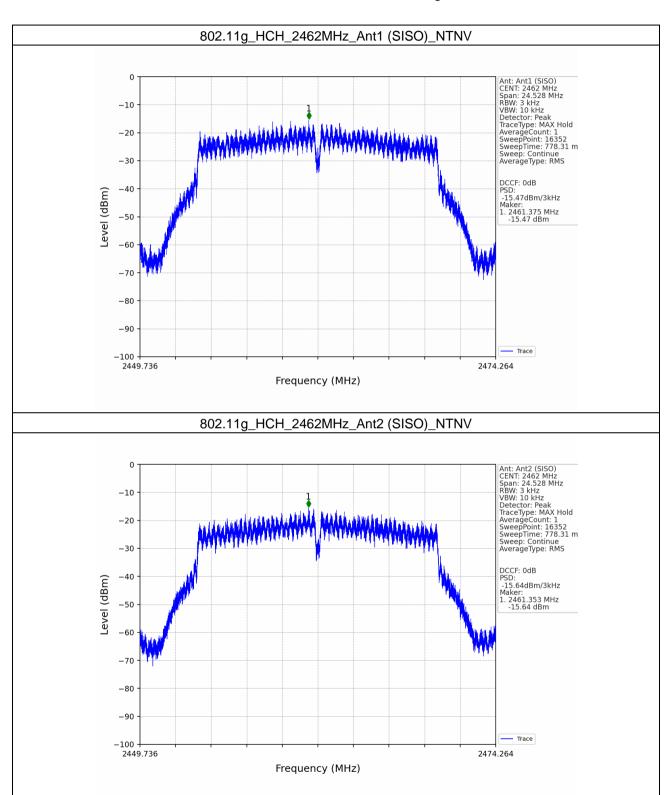
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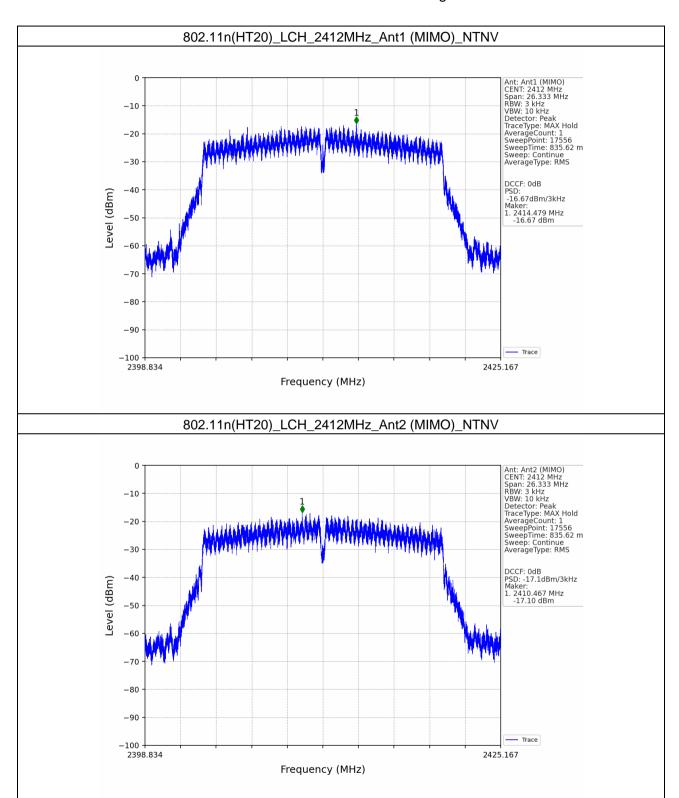
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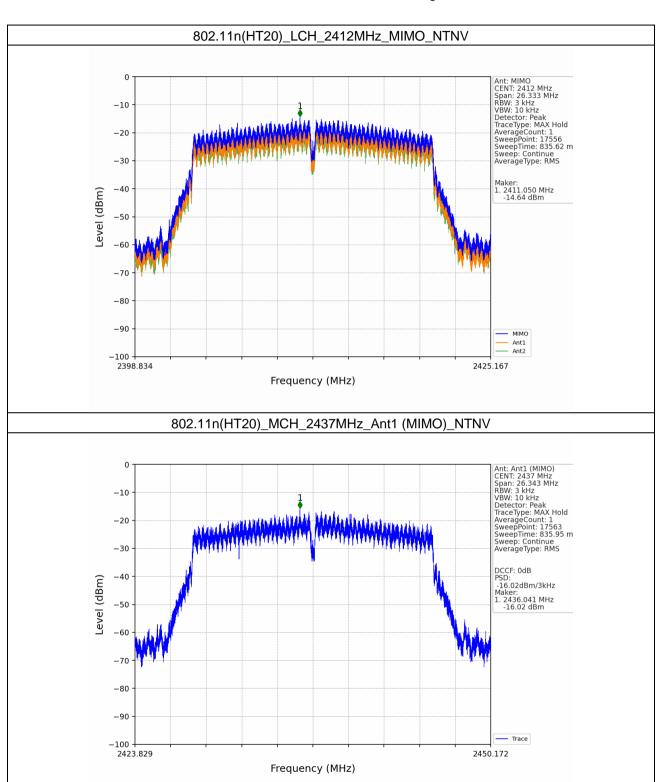
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