

EMC-TRF-01 Rev 1.1 Report No.: GZCR221000131902

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# TEST REPORT

Application No.: GZCR2210001319AT

Applicant: Zhuhai Raysharp Technology Co., Ltd.

Address of Applicant: No.100 Technology 6th. Road, High-tech Zone, Zhuhai, Guangdong, China

P.R.

Manufacturer: Zhuhai Raysharp Technology Co., Ltd.

Address of Manufacturer: No.100 Technology 6th. Road, High-tech Zone, Zhuhai, Guangdong, China

P.R.

Factory: Zhuhai Raysharp Technology Co., Ltd.

Address of Factory: No.100 Technology 6th. Road, High-tech Zone, Zhuhai, Guangdong, China

P.R.

**Equipment Under Test (EUT):** 

**EUT Name:** Pan Tilt Indoor WiFi Camera

Model No.: C

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

**Date of Receipt:** 2022-10-18

**Date of Test:** 2022-11-01 to 2022-11-23

**Date of Issue:** 2022-12-12

Test Result: Pass\*

Ricky Liu EMC Laboratory Manager



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



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	Revision Record					
Version Report No. Date Remark						
01	GZCR221000131902	2022-12-12	Original			

Authorized for issue by		
	Jim Li	
	Jim Li/Project Engineer	
	vius cui	
	Vico Cui/Reviewer	



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## 2 Test Summary

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

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			
Conducted 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	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass			
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass			
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass**			

<sup>\*\*:</sup> The EUT passed the Radiated Spurious Emissions Above 1GHz test after modifications.

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

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

Power supply: DC 5 V, 1.5 A
Cable(s): Type C input ports

Micro SD card ports

Test Voltage: AC 120 V, 60 Hz powered by AC/DC adapter refer to section 4.2

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM,

16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

Channel Spacing: 5MHz

Antenna Type: Integral Antenna

Antenna Gain: 3.38 dBi

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ
AC/DC adapter	FUJIA	FJ- SW266B50502000E Input: AC 100-240 V, 50/60 Hz, 0.4 A Max. Output: DC 5.0 V, 2.0 A, 10.0 W	/

### 4.3 Measurement Uncertainty

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Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	±2.76dB
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
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 5.12dB (1GHz- 6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
Radiated Spurious Emissions Above 1GHz	±5.12dB (1GHz-6GHz); ±5.38dB (6GHz- 18GHz); ±5.61dB(18GHz-40GHz)



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

### 4.5 Test Facility

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

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

#### SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

#### • FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

### • ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

### • VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

### • CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

The EUT passed the Radiated Spurious Emissions Above 1GHz test after modifications.



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# 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Coaxial Cable	HangTianXing	2m	EMC0107	2022-08-24	2023-08-23		
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15		
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2022-09-09	2023-09-08		
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19		
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A		

Conducted Peak Output Power							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01		
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07		
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23		
Test Software	TST	V2.0	GZE100-78	N/A	N/A		

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	

Power Spectrum Density						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	



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Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01		
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07		
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23		
Test Software	TST	V2.0	GZE100-78	N/A	N/A		

Conducted Spurious Emissions							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01		
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07		
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2022-08-24	2023-08-23		
Test Software	TST	V2.0	GZE100-78	N/A	N/A		

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16	
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16	
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23	
Horn Antenna (1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22	
Horn Antenna (14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07	
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2022-10-21	2023-10-20	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	



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Radiated Spurious Emissions Below 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2022-10-16	2025-10-15		
Chamber cable	HangTianXing	N/A	EMC0542	2022-08-24	2023-08-23		
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20		
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05		
EMI Test Receiver (1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19		
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A		
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2022-06-19	2025-06-18		

Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16	
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16	
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23	
Horn Antenna (1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22	
Horn Antenna (14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27	
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07	
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2022-10-21	2023-10-20	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	

General used equipmen	t				
Equipment	Manufacturer	Model No	<b>Inventory No</b>	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23



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# 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

#### Standard Requirement:

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

#### 15.247(b) (4) requirement:

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

#### **EUT Antenna:**

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.38 dBi.

Antenna location: Refer to internal photo.



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## 7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission	Conducted limit (dBμV)				
(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 30MHz					

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 51.8 % RH Atmospheric Pressure: 1015 mbar

#### 7.1.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Codo	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), 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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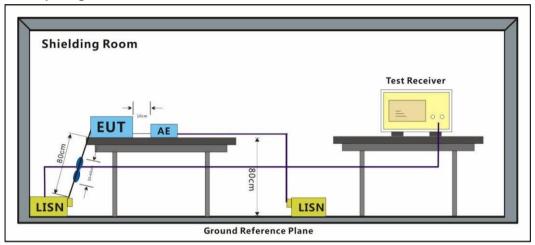


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### 7.1.3 Test Setup Diagram



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

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



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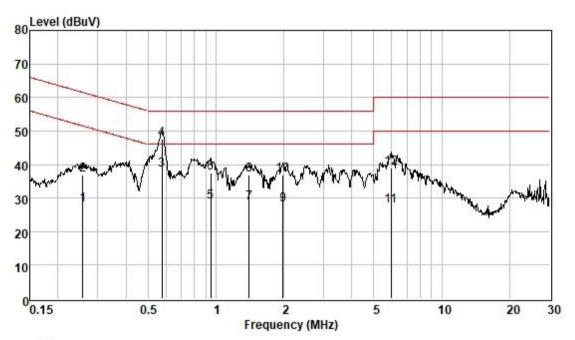


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Test Mode: 00; Line: Live line



Pol :LINE Mode : Model :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.258	18.33	0.06	9.61	28.00	51.51	-23.51	Average
2	0.258	27.10	0.06	9.61	36.77	61.51	-24.74	QP
3	0.576	28.68	0.07	9.61	38.36	46.00	-7.64	Average
4	0.576	37.76	0.07	9.61	47.44	56.00	-8.56	QP
5	0.948	19.19	0.07	9.60	28.86	46.00	-17.14	Average
6	0.948	27.85	0.07	9.60	37.52	56.00	-18.48	QP
7	1.403	18.75	0.09	9.61	28.45	46.00	-17.55	Average
8	1.403	27.28	0.09	9.61	36.98	56.00	-19.02	QP
9	1.980	18.22	0.11	9.62	27.95	46.00	-18.05	Average
10	1.980	27.00	0.11	9.62	36.73	56.00	-19.27	QP
11	5.961	17.67	0.19	9.66	27.52	50.00	-22.48	Average
12	5.961	29.25	0.19	9.66	39.10	60.00	-20.90	OP



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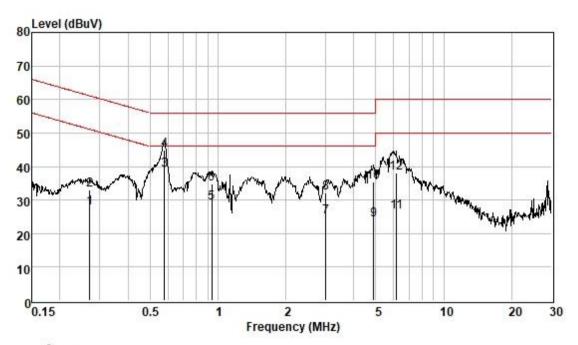


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Test Mode: 00; Line: Neutral Line



Pol :NEUTRAL

Mode : Model :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.272	18.01	0.06	9.60	27.67	51.07	-23.40	Average
2	0.272	23.41	0.06	9.60	33.07	61.07	-28.00	QP
3	0.579	29.22	0.07	9.62	38.91	46.00	-7.09	Average
4	0.579	35.22	0.07	9.62	44.91	56.00	-11.09	QP
5	0.938	19.40	0.07	9.60	29.07	46.00	-16.93	Average
6	0.938	25.23	0.07	9.60	34.90	56.00	-21.10	QP
7	3.000	15.25	0.14	9.63	25.02	46.00	-20.98	Average
8	3.000	22.27	0.14	9.63	32.04	56.00	-23.96	QP
9	4.900	14.28	0.17	9.65	24.10	46.00	-21.90	Average
10	4.900	25.72	0.17	9.65	35.54	56.00	-20.46	QP
11	6.186	16.51	0.19	9.67	26.37	50.00	-23.63	Average
12	6.186	28.24	0.19	9.67	38.10	60.00	-21.90	OP



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### 7.2 Conducted Peak Output Power

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

Limit:

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

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

Final test

Operating Environment:

Temperature: 25.7 °C Humidity: 58.5 % RH Atmospheric Pressure: 1014 mbar

#### 7.2.2 Test Mode Description

Pre-scan /	Mode
Final test	Codo

00

### Description

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), 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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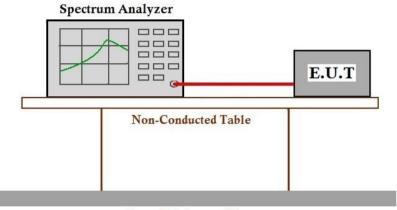
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#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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### 7.3 Minimum 6dB Bandwidth

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

Limit: ≥500 kHz

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.7 °C Humidity: 58.5 % RH Atmospheric Pressure: 1014 mbar

#### 7.3.2 Test Mode Description

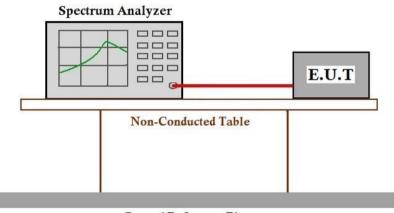
Pre-scan / Mode Final test Code

### Description

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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

Final test 00

### 7.3.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.4 Power Spectrum Density

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

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

transmission

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.7 °C Humidity: 58.4 % RH Atmospheric Pressure: 1014 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Mode Final test Code

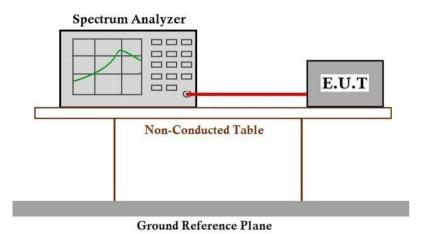
00

**Description** 

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), 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

Final test



### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.5 Conducted Band Edges Measurement

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

Limit:

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

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.7 °C Humidity: 58.5 % RH Atmospheric Pressure: 1014 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), 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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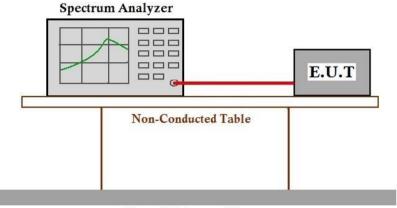
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#### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.6 Conducted Spurious Emissions

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

Limit:

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

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

Operating Environment:

Temperature: 25.7 °C Humidity: 58.5 % RH Atmospheric Pressure: 1014 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), 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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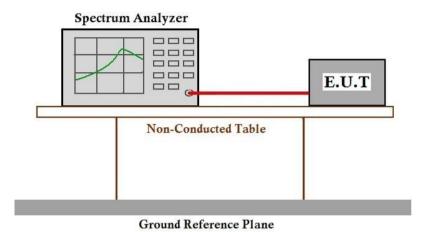
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#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

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

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

Limit:

Test Distance: 3 m

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

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

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

Final test

Operating Environment:

Temperature: 24.0 °C Humidity: 63.9 % RH Atmospheric Pressure: 1014 mbar

#### 7.7.2 Test Mode Description

Pre-scan / Mode Final test Code Description

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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in

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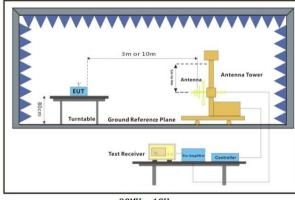


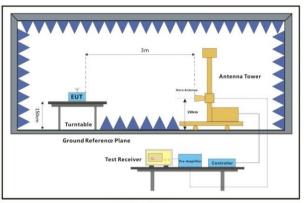
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### 7.7.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

#### 7.7.4 Measurement Procedure and Data

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

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

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



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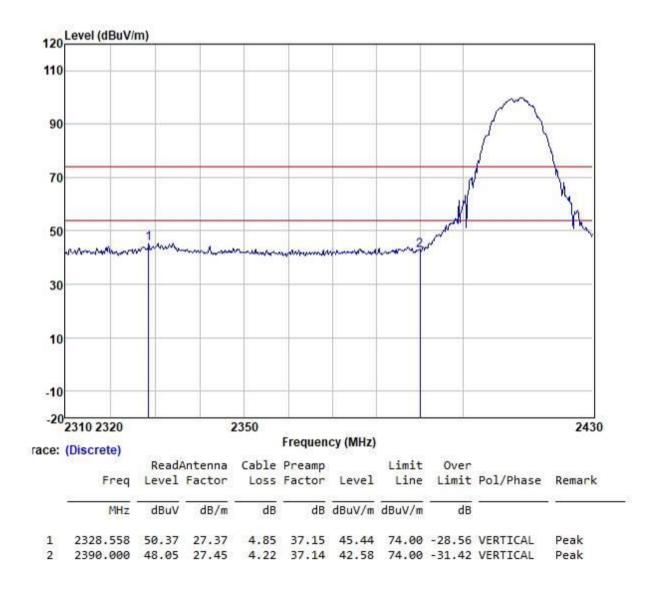


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low





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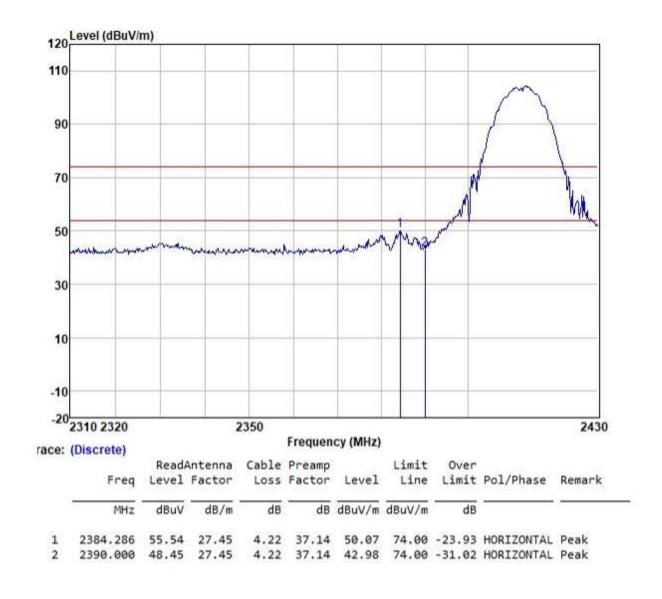


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low





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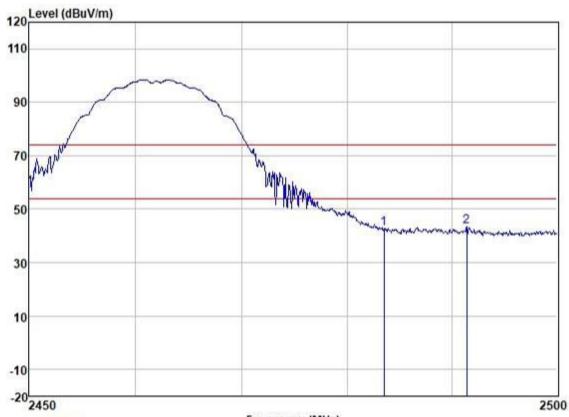


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



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	Freq		Antenna Factor				Limit Line	77.000	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-
1	2483.500	48.57	27.80	3.42	37.13	42.66	74.00	-31.34	VERTICAL	Peak
2	2491.378	49.51	27.83	3.33	37.12	43.55	74.00	-30.45	VERTICAL	Peak



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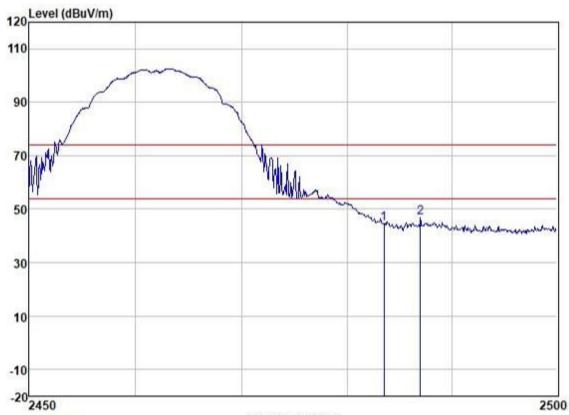


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



race	(Discrete)

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	Freq		Antenna Factor				Limit Line		Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-
1	2483.500	50.47	27.80	3.42	37.13	44.56	74.00	-29.44	HORIZONTAL	Peak
2	2486.953	52.57	27.80	3.42	37.13	46.66	74.00	-27.34	HORIZONTAL	Peak



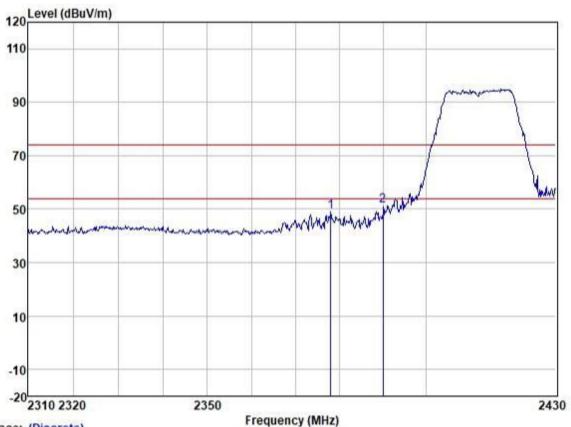
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq		Antenna Factor				Limit Line		Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	-	-	_
1	2378.016	54.35	27.44	4.27	37.14	48.92	74.00	-25.08	VERTICAL	Peak	
2	2390.000	56.76	27.45	4.22	37.14	51.29	74.00	-22.71	VERTICAL	Peak	



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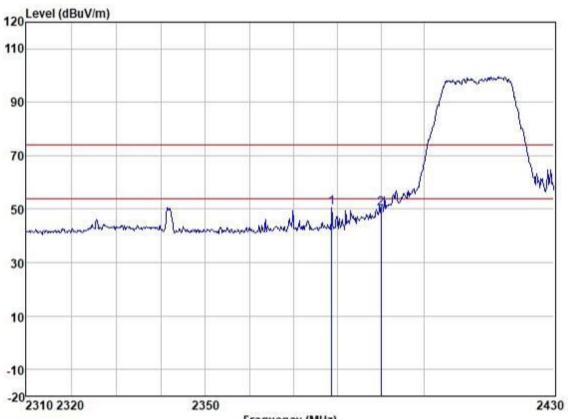


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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



race: (Discrete) Frequency (MHz)

	Freq		Antenna Factor				Limit Line	77.000	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		5 <del>4</del>	
1	2378.738	55.85	27.44	4.27	37.14	50.42	74.00	-23.58	HORIZONTAL	Peak	
2	2390.000	55.71	27.45	4.22	37.14	50.24	74.00	-23.76	HORIZONTAL	Peak	



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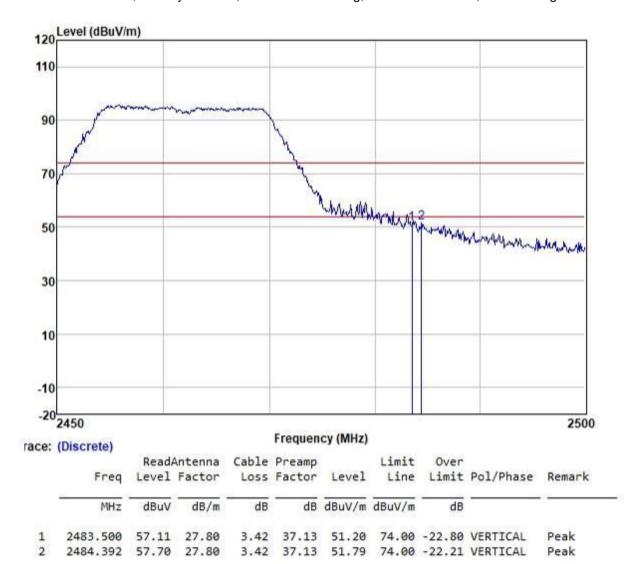


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Report No.: GZCR221000131902

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





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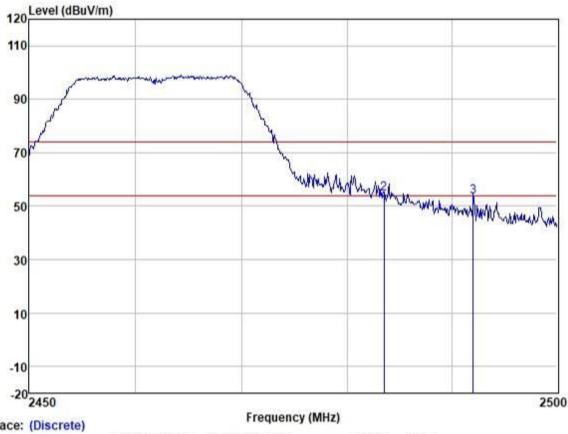


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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



(Discrete)				requen	C) (IIII 12)				
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		<u> </u>
2483.500	55.65	27.80	3.42	37.13	49.74	54.00	-4.26	HORIZONTAL	Average
2483.500	60.46	27.80	3.42	37.13	54.55	74.00	-19.45	HORIZONTAL	Peak
2491.982	59.49	27.83	3.33	37.12	53.53	74.00	-20.47	HORIZONTAL	Peak
	Freq MHz 2483.500 2483.500	Read/ Freq Level MHz dBuV 2483.500 55.65 2483.500 60.46	ReadAntenna Level Factor  MHz dBuV dB/m  2483.500 55.65 27.80 2483.500 60.46 27.80	ReadAntenna Cable Loss  MHz dBuV dB/m dB  2483.500 55.65 27.80 3.42 2483.500 60.46 27.80 3.42	ReadAntenna   Cable Preamp   Level Factor   Loss Factor   Loss Factor   MHz   dBuV   dB/m   dB   dB   dB   2483.500   55.65   27.80   3.42   37.13   2483.500   60.46   27.80   3.42   37.13	ReadAntenna   Cable Preamp   Level Factor   Loss Factor   Level	ReadAntenna   Cable Preamp   Limit	ReadAntenna   Cable Preamp   Limit   Over	ReadAntenna   Cable Preamp   Limit   Over   Level   Line   Limit   Pol/Phase



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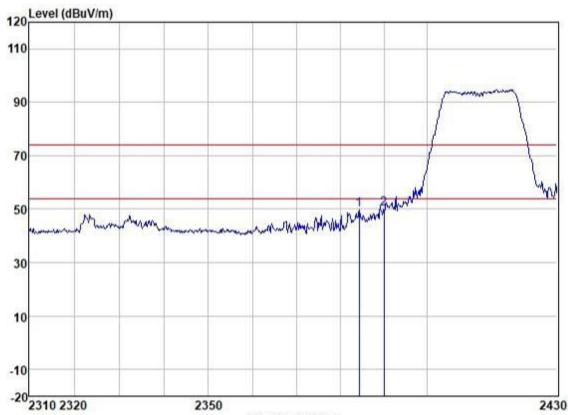


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

Page: 34 of 96

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



race: (Discrete)

Frequency (MHz)

	Freq	ReadAntenna Level Factor					Limit Line		Pol/Phase	Remark	
		dBuV	uV dB/m	dB	dB	dBuV/m	dBuV/m	dB	-		
1	2384.286	55.38	27.45	4.22	37.14	49.91	74.00	-24.09	VERTICAL	Peak	
2	2390.000	55.72	27.45	4.22	37.14	50.25	74.00	-23.75	VERTICAL	Peak	



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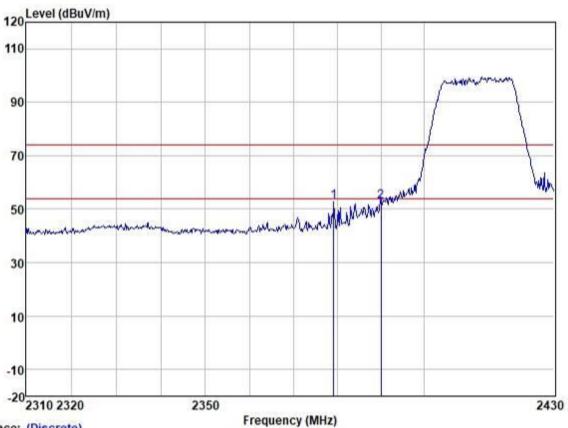
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EMC-TRF-01 Rev 1.1 Report No.: GZCR221000131902

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



race: (Discrete)

	Freq	ReadAntenna Level Factor					Limit Line	77.00	Pol/Phase	Remark	
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-	_
1	2379.220	58.07	27.44	4.27	37.14	52.64	74.00	-21.36	HORIZONTAL	Peak	
2	2390.000	58.21	27.45	4.22	37.14	52.74	74.00	-21.26	HORIZONTAL	Peak	



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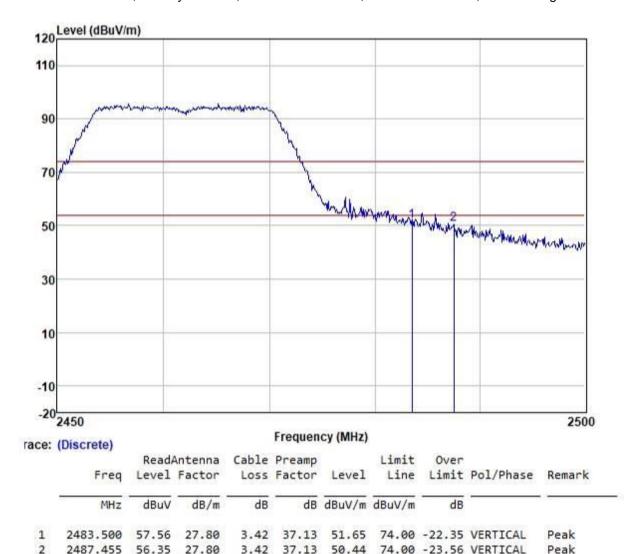


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Report No.: GZCR221000131902

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





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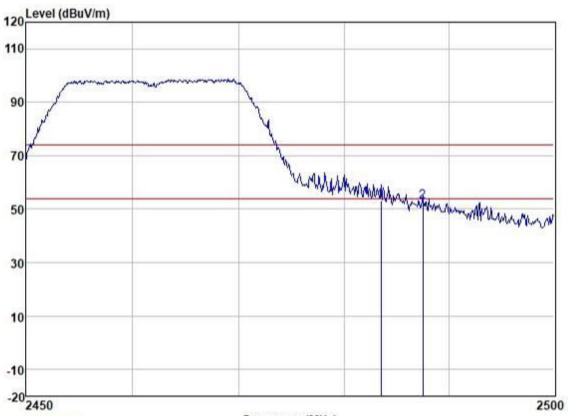


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race:	(Discrete)

Fred	uency	(MH	7

	Freq		Antenna Factor				Limit Line	77.000	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	·	*	_
1	2483.500	58.94	27.80	3.42	37.13	53.03	74.00	-20.97	HORIZONTAL	Peak	
2	2487.455	58.84	27.80	3.42	37.13	52.93	74.00	-21.07	HORIZONTAL	Peak	



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#### 7.8 Radiated Spurious Emissions Below 1GHz

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

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

Limit:

Test Distance: 3 m

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

#### 7.8.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 23.6 °C Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Mode Final test 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), 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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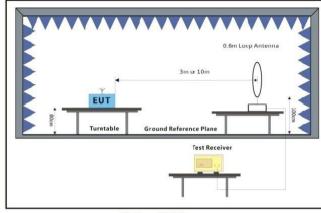


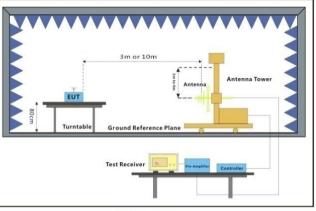
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#### 7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.8.4 Measurement Procedure and Data

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



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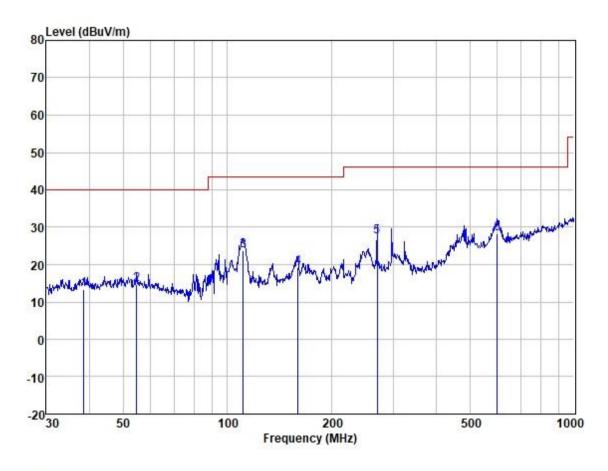


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Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode : TX

	Freq				- 100 CO	Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	38.481	26.40	13.40	1.08	27.61	13.27	40.00	-26.73	HORIZONTAL	QP
2	54.643	27.31	13.86	1.18	27.60	14.75	40.00	-25.25	HORIZONTAL	QP
3	110.957	39.03	10.45	1.77	27.58	23.67	43.50	-19.83	HORIZONTAL	QP
4	159.784	30.55	13.69	2.32	27.36	19.20	43.50	-24.30	HORIZONTAL	QP
5	270.375	38.84	12.62	3.09	27.21	27.34	46.00	-18.66	HORIZONTAL	QP
6	599.321	31.90	20.17	4.98	28.80	28.25	46.00	-17.75	HORIZONTAL	QP



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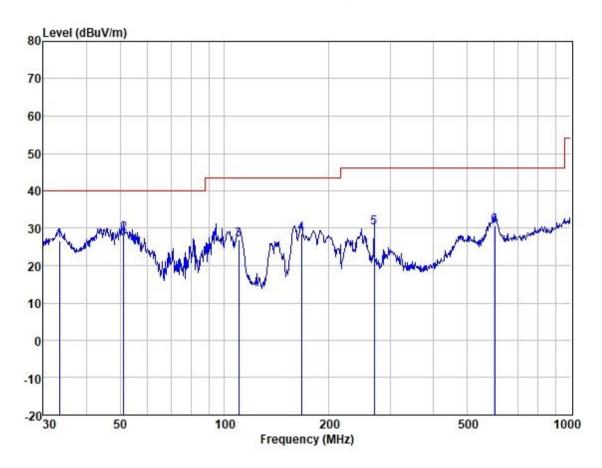


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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode : TX

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		· —
1	33.445	40.48	12.90	1.04	27.63	26.79	40.00	-13.21	VERTICAL	QP
2	51.121	40.96	13.97	1.14	27.60	28.47	40.00	-11.53	VERTICAL	QP
3	109.796	42.40	10.41	1.76	27.58	26.99	43.50	-16.51	VERTICAL	QP
4	166.651	40.05	13.38	2.37	27.34	28.46	43.50	-15.04	VERTICAL	QP
5	270.375	41.56	12.62	3.09	27.21	30.06	46.00	-15.94	VERTICAL	QP
6	601.427	34.17	20.19	4.98	28.80	30.54	46.00	-15.46	VERTICAL	QP



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#### 7.9 Radiated Spurious Emissions Above 1GHz

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

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

Limit:

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

#### 7.9.1 E.U.T. Operation

Operating Environment:

24.1 °C Humidity: 65.0 % RH Atmospheric Pressure: 1014 mbar Temperature:

#### 7.9.2 Test Mode Description

Mode Pre-scan / Final test Code

00

#### Description

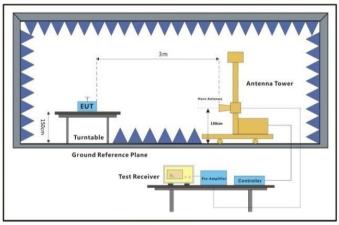
modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in

TX mode\_Keep the EUT in continuously transmitting mode with all

the report.

#### 7.9.3 Test Setup Diagram

Final test



Above 1GHz



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#### 7.9.4 Measurement Procedure and Data

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

#### Remark:

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



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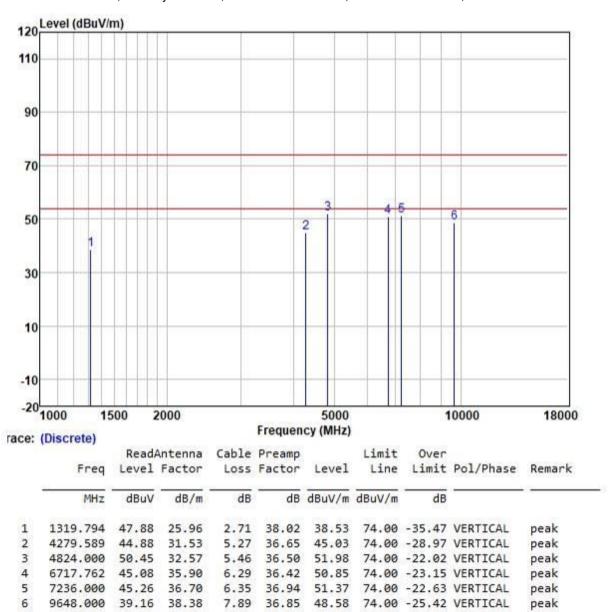


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

Page: 44 of 96

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





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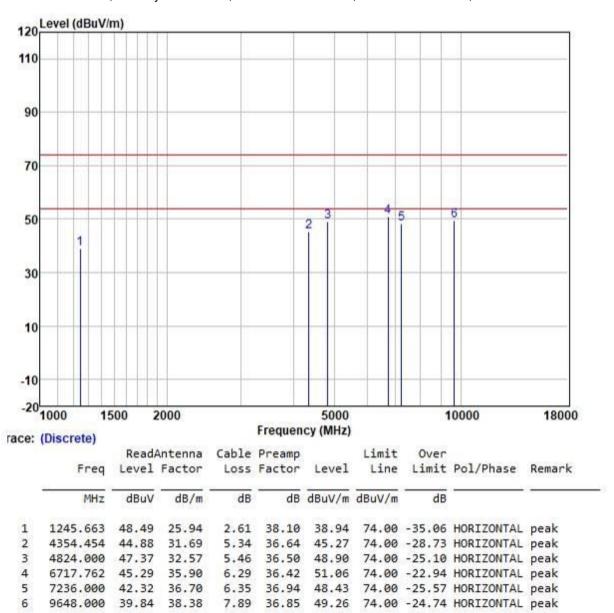


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Report No.: GZCR221000131902

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





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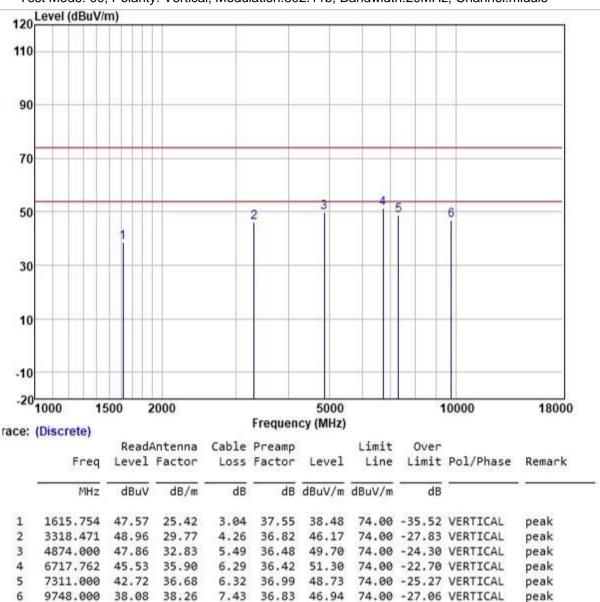


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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





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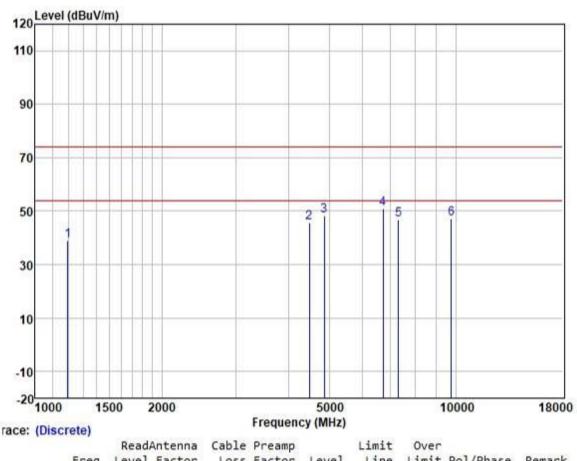


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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



		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	-	*
1	1196.264	48.52	25.89	2.58	38.14	38.85	74.00	-35.15	HORIZONTAL	peak
2	4482.150	45.29	31.77	5.34	36.61	45.79	74.00	-28.21	HORIZONTAL	peak
3	4874.000	46.65	32.83	5.49	36.48	48.49	74.00	-25.51	HORIZONTAL	peak
4	6717.762	45.05	35.90	6.29	36.42	50.82	74.00	-23.18	HORIZONTAL	peak
5	7311.000	40.97	36.68	6.32	36.99	46.98	74.00	-27.02	HORIZONTAL	peak
6	9748.000	38.24	38.26	7.43	36.83	47.10	74.00	-26.90	HORIZONTAL	peak



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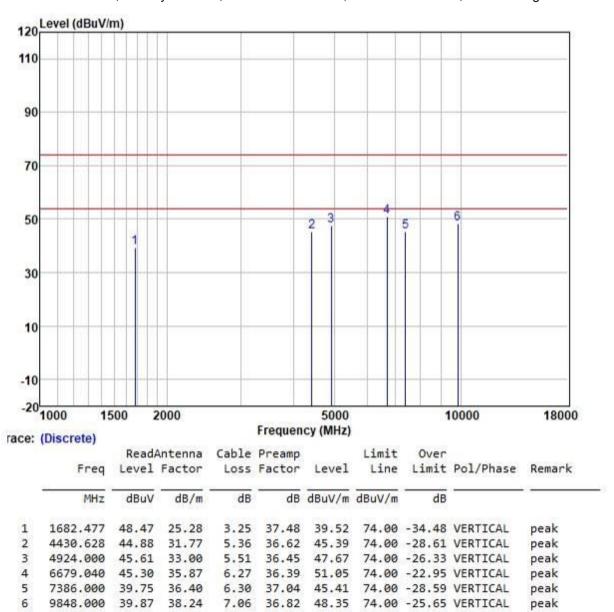


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Report No.: GZCR221000131902

Page: 48 of 96

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





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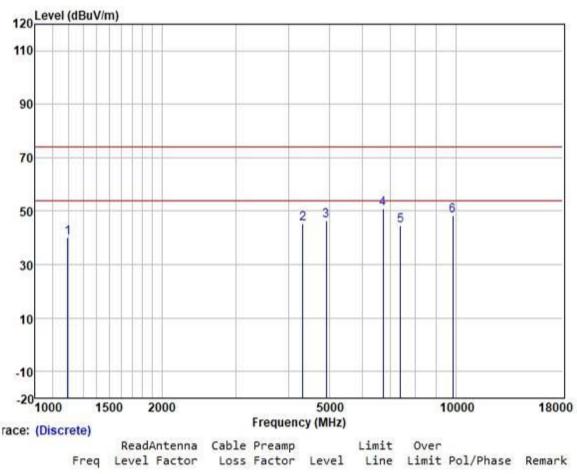


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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



	(										
		Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-	_
1	1196.264	49.65	25.89	2.58	38.14	39.98	74.00	-34.02	HORIZONTAL	peak	
2	4329.354	45.16	31.64	5.31	36.64	45.47	74.00	-28.53	HORIZONTAL	peak	
3	4924.000	44.22	33.00	5.51	36.45	46.28	74.00	-27.72	HORIZONTAL	peak	
4	6717.762	45.21	35.90	6.29	36.42	50.98	74.00	-23.02	HORIZONTAL	peak	
5	7386.000	38.88	36.40	6.30	37.04	44.54	74.00	-29.46	HORIZONTAL	peak	
6	9848.000	40.02	38.24	7.06	36.82	48.50	74.00	-25.50	HORIZONTAL	peak	



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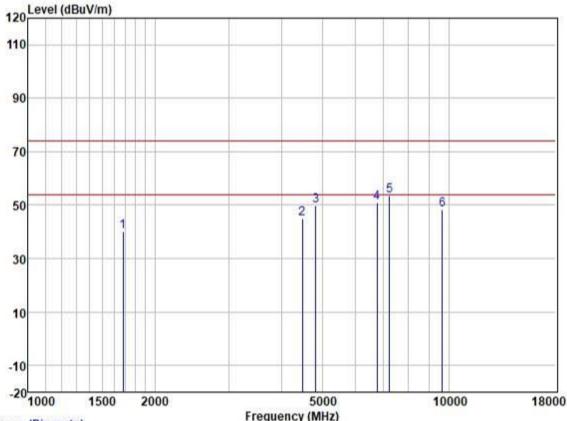


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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



race:	(Discrete)					o, (z)				
	Freq		Antenna Factor		Preamp Factor		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	-	• 19
1	1682.477	49.12	25.28	3.25	37.48	40.17	74.00	-33.83	VERTICAL	peak
2	4482.150	44.64	31.77	5.34	36.61	45.14	74.00	-28.86	VERTICAL	peak
3	4824.000	48.36	32.57	5.46	36.50	49.89	74.00	-24.11	VERTICAL	peak
4	6756.708	45.15	35.87	6.32	36.44	50.90	74.00	-23.10	VERTICAL	peak
5	7236.000	47.40	36.70	6.35	36.94	53.51	74.00	-20.49	VERTICAL	peak
6	9648.000	38.86	38.38	7.89	36.85	48.28	74.00	-25.72	VERTICAL	peak



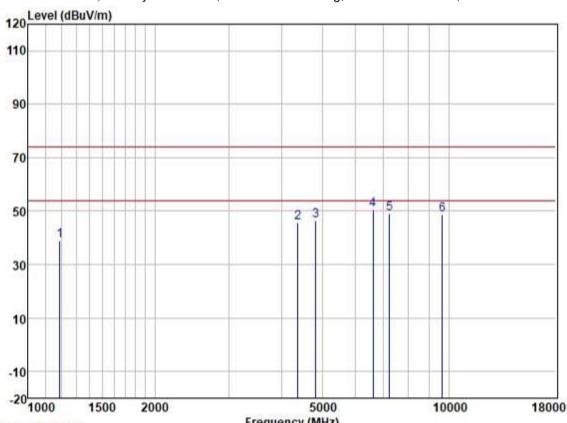
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



race:	(Discrete)	
	A CONTROL OF STREET	

Frequency (MHz)

		Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		*	-
1	1189.368	48.86	25.87	2.57	38.14	39.16	74.00	-34.84	HORIZONTAL	peak	
2	4379.699	45.18	31.73	5.35	36.63	45.63	74.00	-28.37	HORIZONTAL	peak	
3	4824.000	45.04	32.57	5.46	36.50	46.57	74.00	-27.43	HORIZONTAL	peak	
4	6602.265	44.80	35.72	6.23	36.34	50.41	74.00	-23.59	HORIZONTAL	peak	
5	7236.000	42.84	36.70	6.35	36.94	48.95	74.00	-25.05	HORIZONTAL	peak	
6	9648.000	39.42	38.38	7.89	36.85	48.84	74.00	-25.16	HORIZONTAL	peak	



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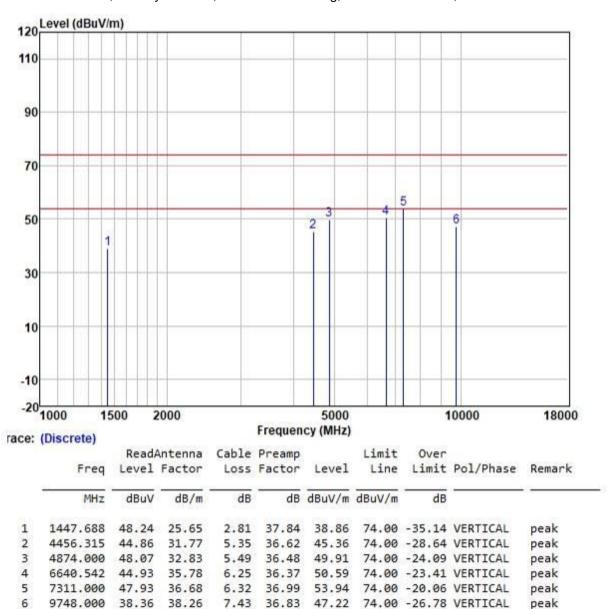


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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





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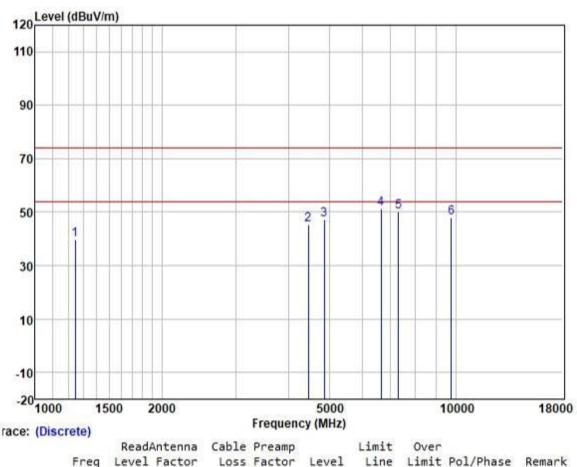


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



acc.	(5,50,00)										
		Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		S. <del>#</del> !	_
1	1245.663	49.14	25.94	2.61	38.10	39.59	74.00	-34.41	HORIZONTAL	peak	
2	4456.315	44.80	31.77	5.35	36.62	45.30	74.00	-28.70	HORIZONTAL	peak	
3	4874.000	45.53	32.83	5.49	36.48	47.37	74.00	-26.63	HORIZONTAL	peak	
4	6640.542	45.61	35.78	6.25	36.37	51.27	74.00	-22.73	HORIZONTAL	peak	
5	7311.000	44.26	36.68	6.32	36.99	50.27	74.00	-23.73	HORIZONTAL	peak	
6	9748.000	38.95	38.26	7.43	36.83	47.81	74.00	-26.19	HORIZONTAL	peak	



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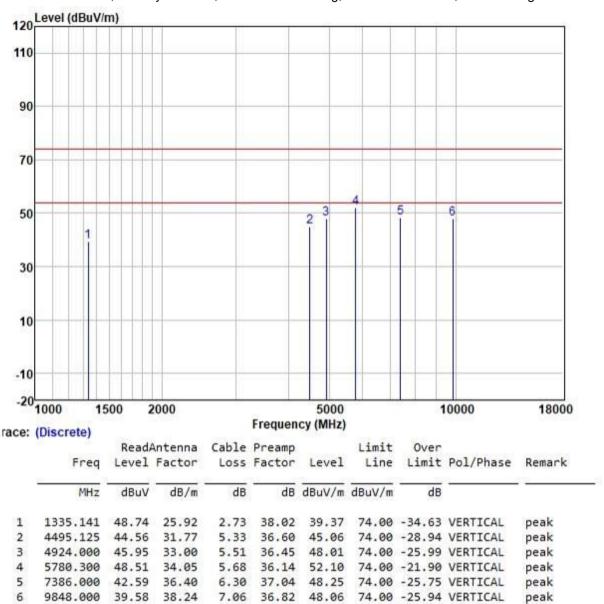


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Report No.: GZCR221000131902

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





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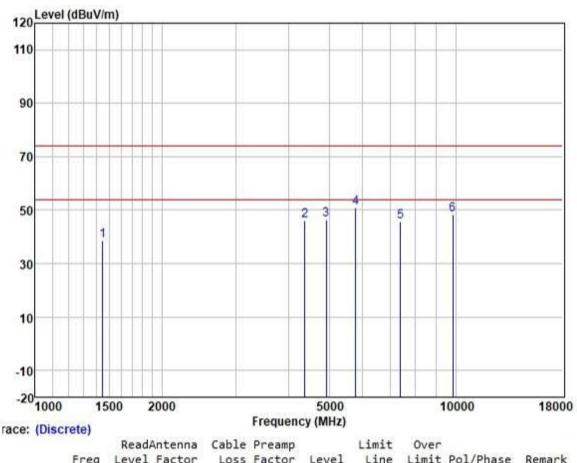


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Report No.: GZCR221000131902

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



acc.	(Discrete)									
			Antenna		Preamp		Limit			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		•
1	1447.688	47.98	25.65	2.81	37.84	38.60	74.00	-35.40	HORIZONTAL	peak
2	4379.699	45.62	31.73	5.35	36.63	46.07	74.00	-27.93	HORIZONTAL	peak
3	4924.000	44.57	33.00	5.51	36.45	46.63	74.00	-27.37	HORIZONTAL	peak
4	5780.300	47.35	34.05	5.68	36.14	50.94	74.00	-23.06	HORIZONTAL	peak
5	7386.000	40.17	36.40	6.30	37.04	45.83	74.00	-28.17	HORIZONTAL	peak
6	9848.000	40.01	38.24	7.06	36.82	48.49	74.00	-25.51	HORIZONTAL	peak



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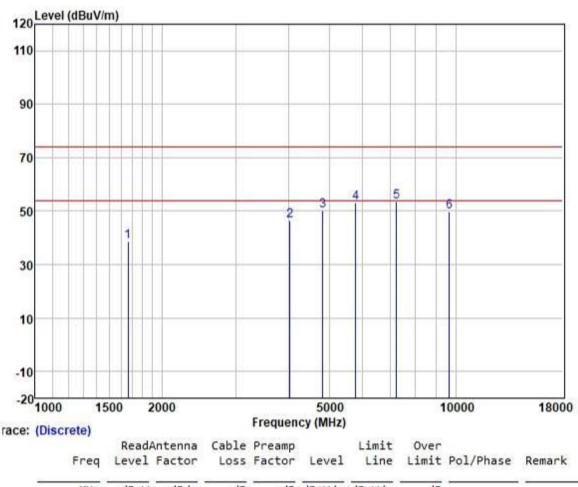


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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



acc.	(Discrete)									
		Read	ReadAntenna		Cable Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	47.71	25.32	3.18	37.48	38.73	74.00	-35.27	VERTICAL	peak
2	4039.212	46.64	31.09	5.27	36.69	46.31	74.00	-27.69	VERTICAL	peak
3	4824.000	48.49	32.57	5.46	36.50	50.02	74.00	-23.98	VERTICAL	peak
4	5780.300	49.66	34.05	5.68	36.14	53.25	74.00	-20.75	VERTICAL	peak
5	7236.000	47.60	36.70	6.35	36.94	53.71	74.00	-20.29	VERTICAL	peak
6	9648.000	40.32	38.38	7.89	36.85	49.74	74.00	-24.26	VERTICAL	peak



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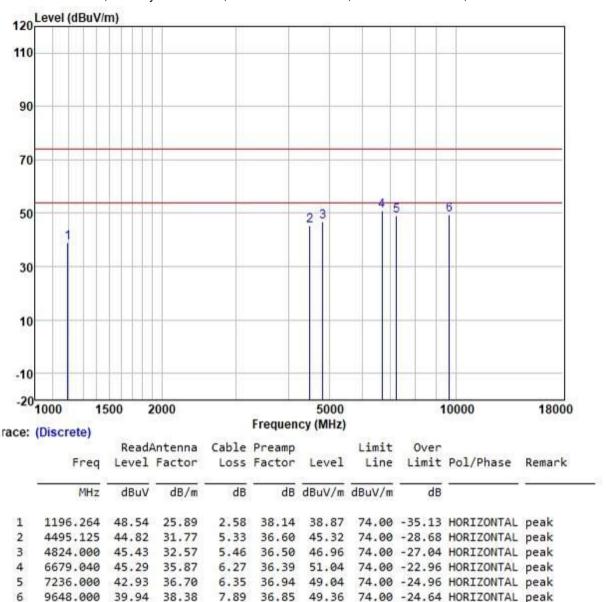


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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





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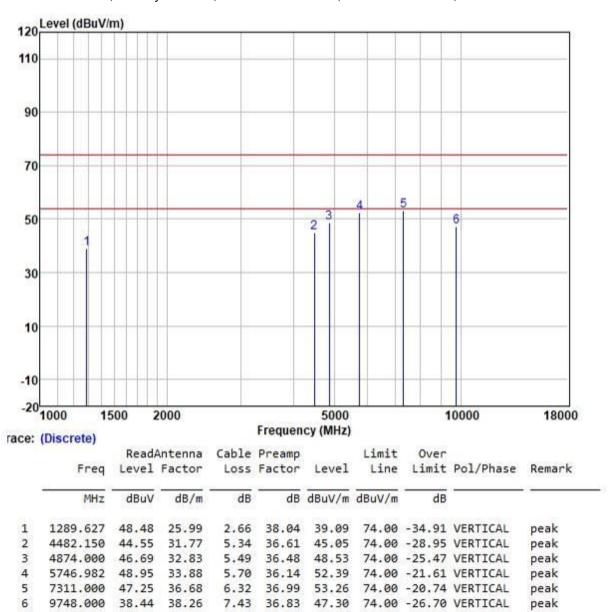


EMC-TRF-01 Rev 1.1

Report No.: GZCR221000131902

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





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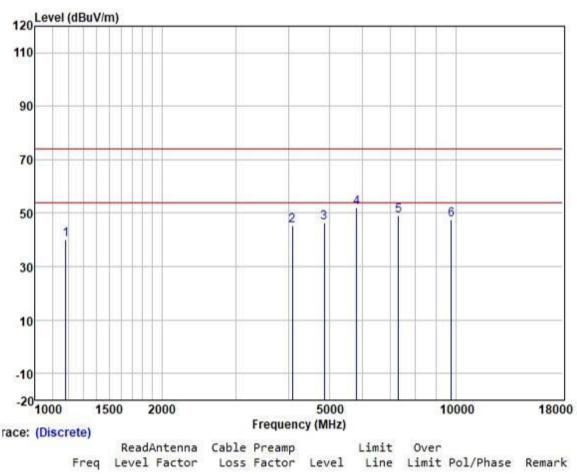


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



acc.	(Discrete)									
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		S. <del>#</del> !
1	1182.513	49.74	25.85	2.57	38.17	39.99	74.00	-34.01	HORIZONTAL	peak
2	4086.182	45.66	31.12	5.25	36.69	45.34	74.00	-28.66	HORIZONTAL	peak
3	4874.000	44.70	32.83	5.49	36.48	46.54	74.00	-27.46	HORIZONTAL	peak
4	5813.812	48.14	34.16	5.71	36.13	51.88	74.00	-22.12	HORIZONTAL	peak
5	7311.000	42.98	36.68	6.32	36.99	48.99	74.00	-25.01	HORIZONTAL	peak
6	9748.000	38.67	38.26	7.43	36.83	47.53	74.00	-26.47	HORIZONTAL	peak



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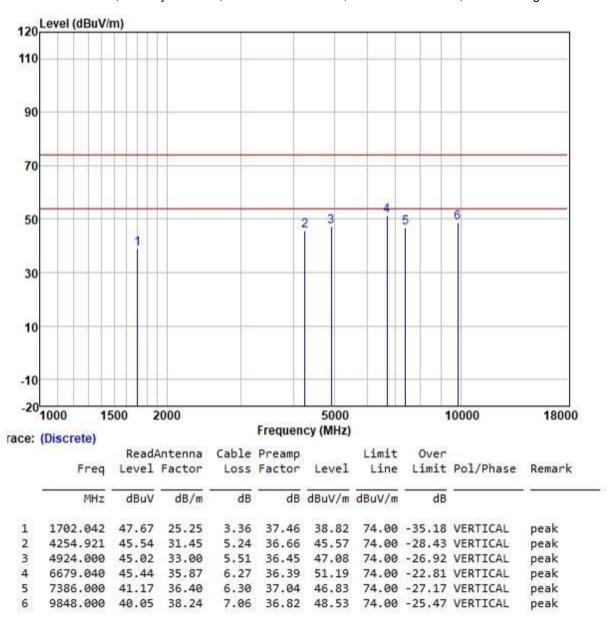


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High





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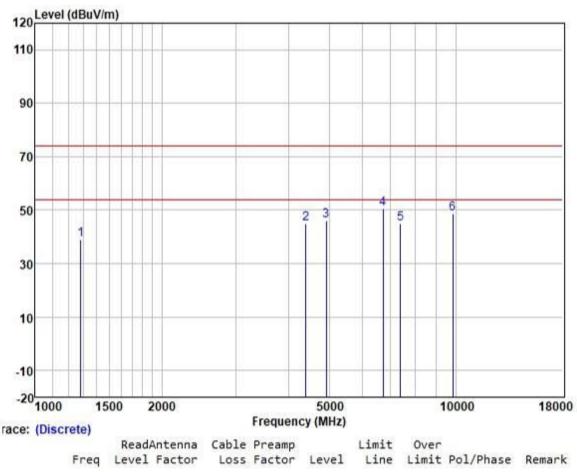


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



acc.	(5,50,00)										
		Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		S. <del>4</del> 1	_
1	1282.193	48.38	25.99	2.65	38.07	38.95	74.00	-35.05	HORIZONTAL	peak	
2	4405.090	44.56	31.77	5.37	36.63	45.07	74.00	-28.93	HORIZONTAL	peak	
3	4924.000	44.17	33.00	5.51	36.45	46.23	74.00	-27.77	HORIZONTAL	peak	
4	6717.762	44.79	35.90	6.29	36.42	50.56	74.00	-23.44	HORIZONTAL	peak	
5	7386.000	39.47	36.40	6.30	37.04	45.13	74.00	-28.87	HORIZONTAL	peak	
6	9848.000	40.28	38.24	7.06	36.82	48.76	74.00	-25.24	HORIZONTAL	peak	



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#### **Test Setup Photo** 8

Refer to Setup Photos for GZCR221000131902



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# 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2210001319HS



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## 10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

	Ant1												
Mode	Mode TX Fred Type (N		T_on Period (ms)		Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)						
		2412	100.000	100.000	100.00	0.00	0.00						
802.11b	SISO	2437	100.000	100.000	100.00	0.00	0.00						
		2462	100.000	100.000	100.00	0.00	0.00						
	SISO	2412	100.000	100.000	100.00	0.00	0.00						
802.11g		2437	100.000	100.000	100.00	0.00	0.00						
		2462	100.000	100.000	100.00	0.00	0.00						
000.44		2412	100.000	100.000	100.00	0.00	0.00						
802.11n (HT20)	SISO	2437	100.000	100.000	100.00	0.00	0.00						
(11120)		2462	100.000	100.000	100.00	0.00	0.00						



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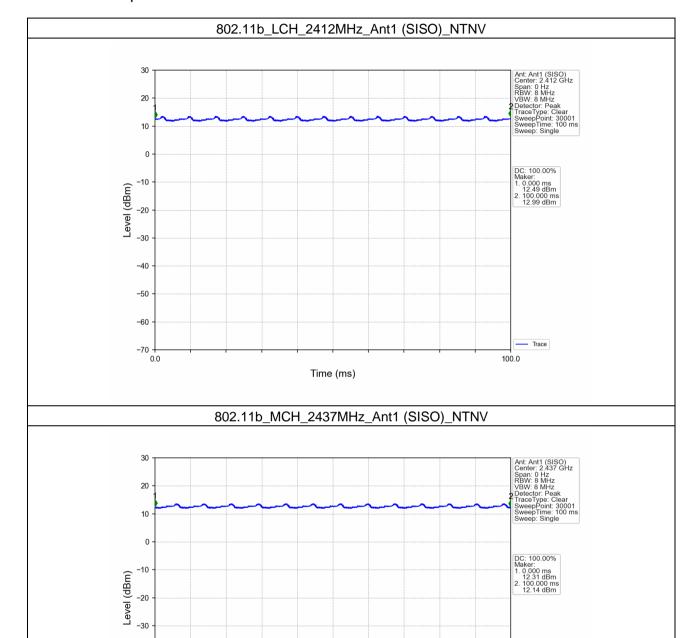


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#### 1.1.2 Test Graph





-40

-50

-60

-70

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Time (ms)

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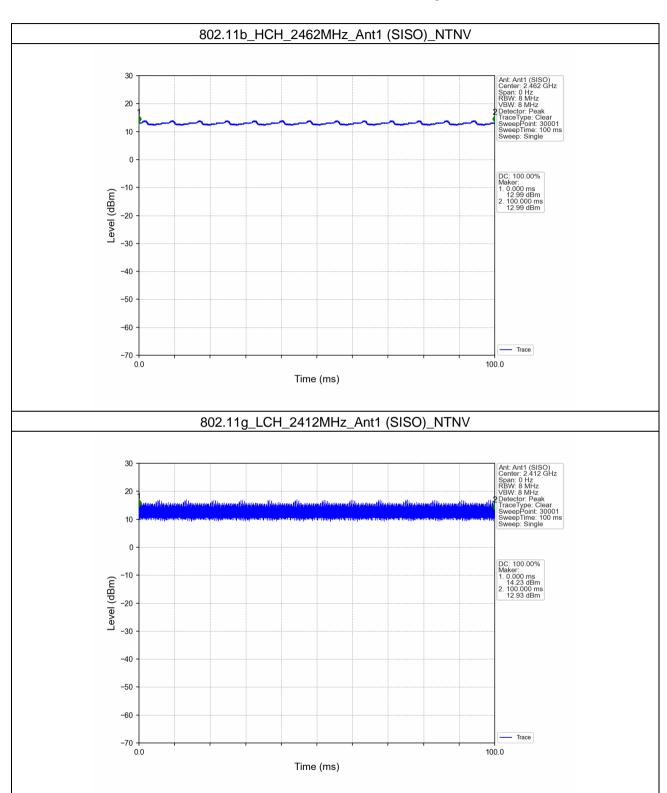
Trace



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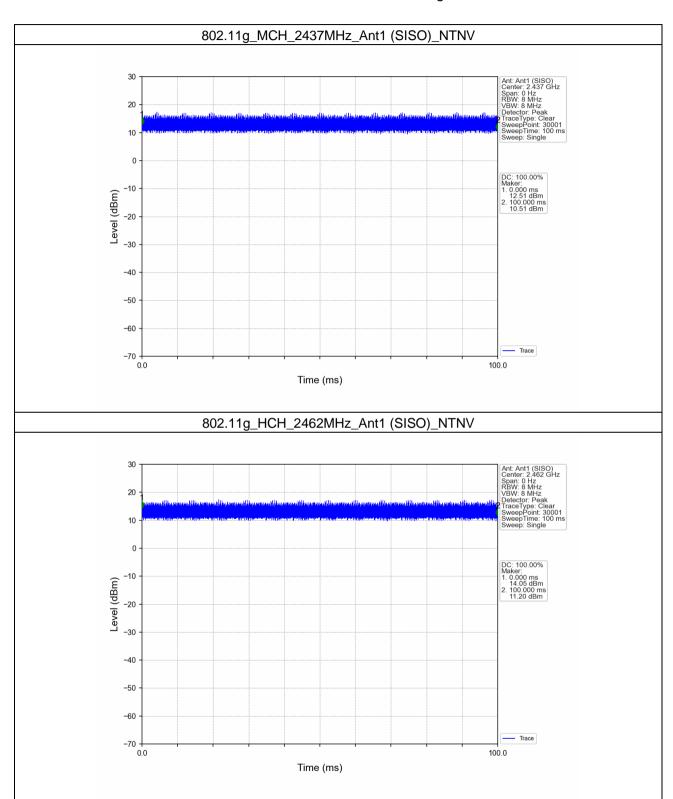
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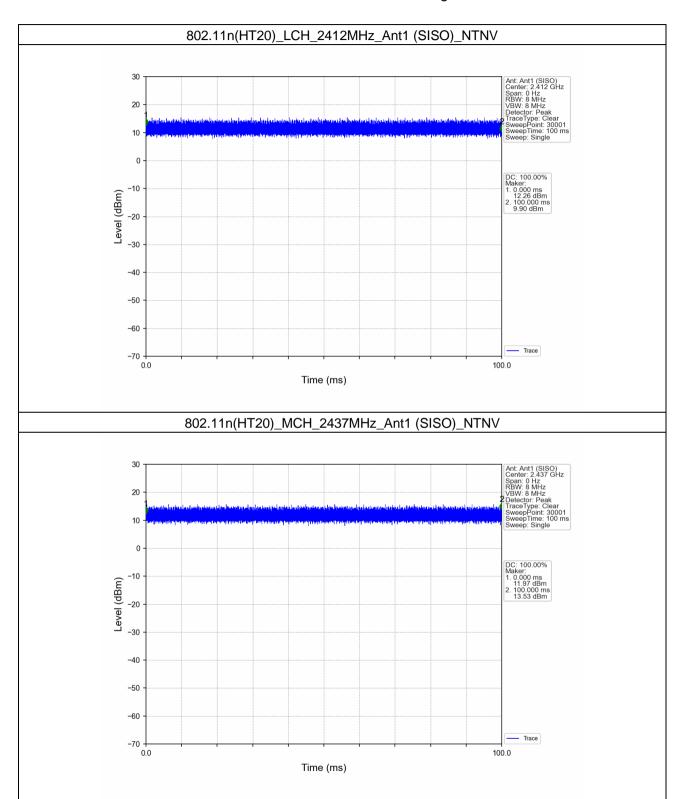
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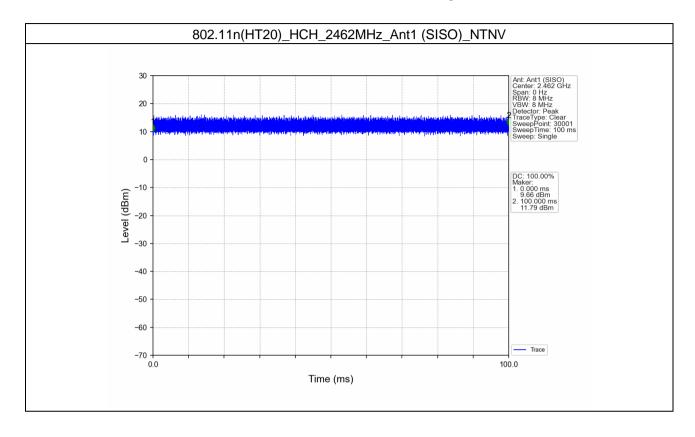
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#### 2. Bandwidth

#### 2.1 6dB BW

#### 2.1.1 Test Result

Mode	TX	Frequency	ANT	6dB Bandv	vidth (MHz)	Verdict			
iviode	Type	(MHz)	AINT	Result	Limit	verdict			
		2412	1	9.089	>=0.5	Pass			
802.11b	SISO	2437	1	9.099	>=0.5	Pass			
		2462	1	9.094	>=0.5	Pass			
	SISO	2412	1	16.569	>=0.5	Pass			
802.11g		2437	1	16.597	>=0.5	Pass			
		2462	1	16.582	>=0.5	Pass			
222.44	SISO				2412	1	17.787	>=0.5	Pass
802.11n (HT20)		2437	1	17.771	>=0.5	Pass			
(11120)		2462	1	17.728	>=0.5	Pass			



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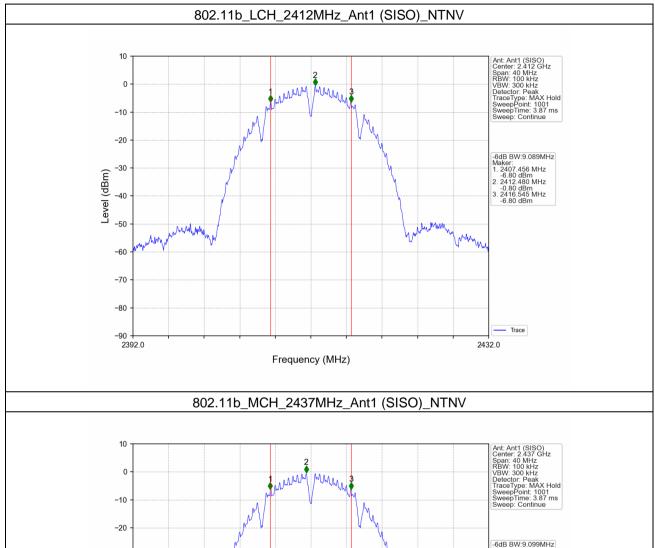


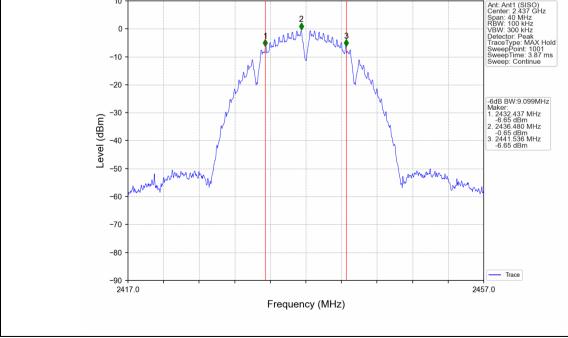
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#### 2.1.2 Test Graph







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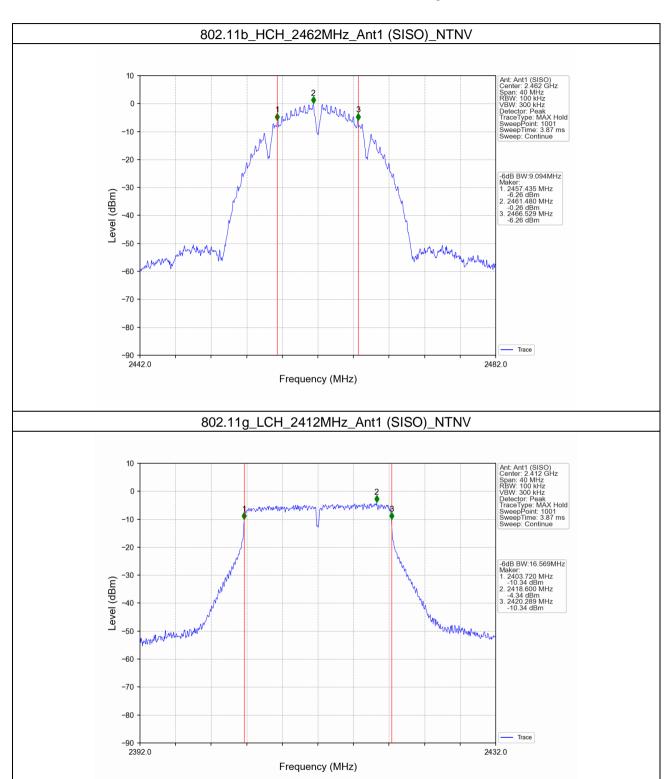
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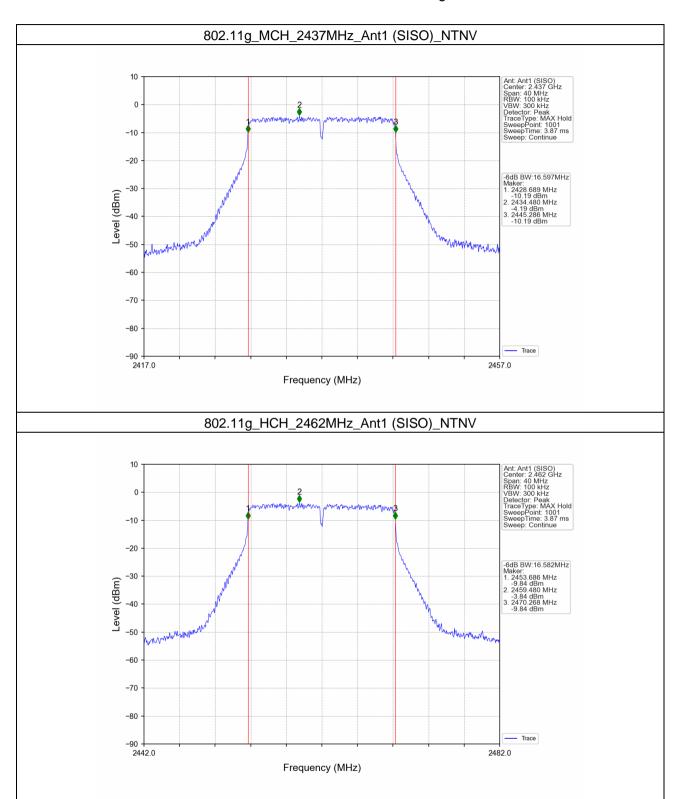
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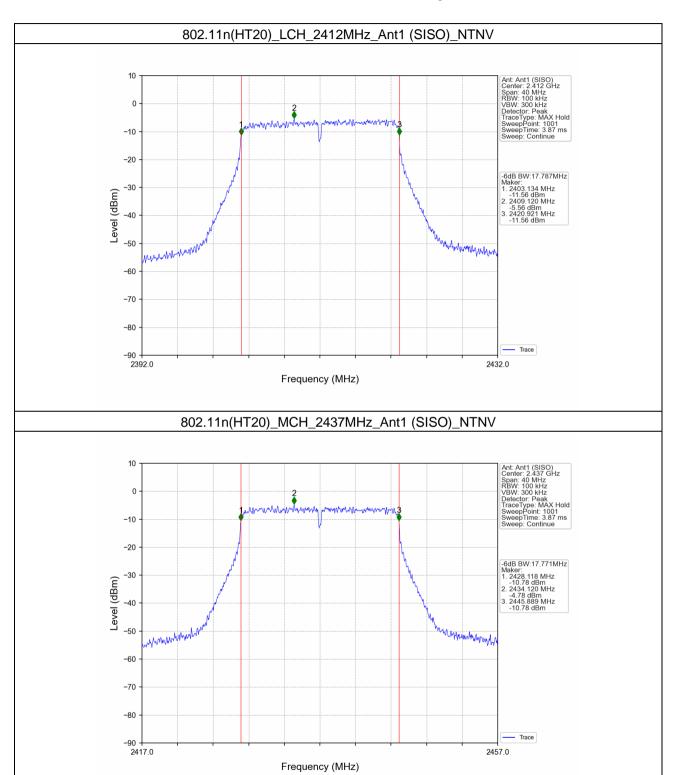
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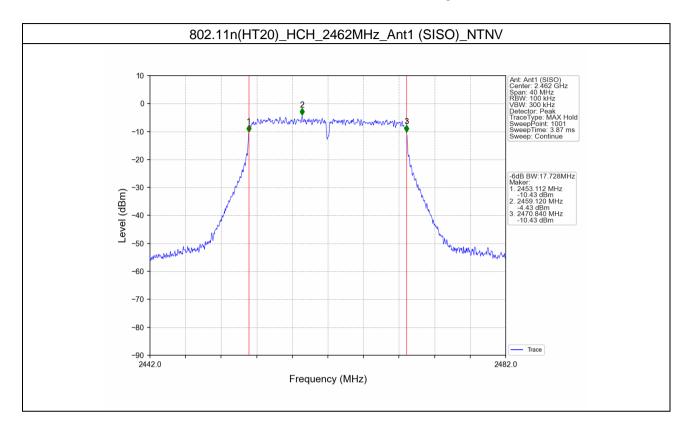
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### 3. Maximum Conducted Output Power

#### 3.1 Power

#### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conduc	\/oveliet	
			ANT1	Limit	Verdict
802.11b	SISO	2412	11.27	<=30	Pass
		2437	11.34	<=30	Pass
		2462	11.68	<=30	Pass
802.11g	SISO	2412	17.45	<=30	Pass
		2437	17.86	<=30	Pass
		2462	18.08	<=30	Pass
802.11n (HT20)	SISO	2412	16.53	<=30	Pass
		2437	16.97	<=30	Pass
		2462	17.15	<=30	Pass
Note1: Antenna Gain: Ant1: 3.38dBi;					

### 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX	Frequency (MHz)	Maximum PS	Vandiat	
	Type		ANT1	Limit	Verdict
802.11b	SISO	2412	-20.83	<=8	Pass
		2437	-20.71	<=8	Pass
		2462	-20.38	<=8	Pass
802.11g	SISO	2412	-18.63	<=8	Pass
		2437	-18.64	<=8	Pass
		2462	-18.02	<=8	Pass
802.11n (HT20)	SISO	2412	-19.61	<=8	Pass
		2437	-18.87	<=8	Pass
		2462	-18.21	<=8	Pass
Note1: Antenna Gain: Ant1: 3.38dBi;					



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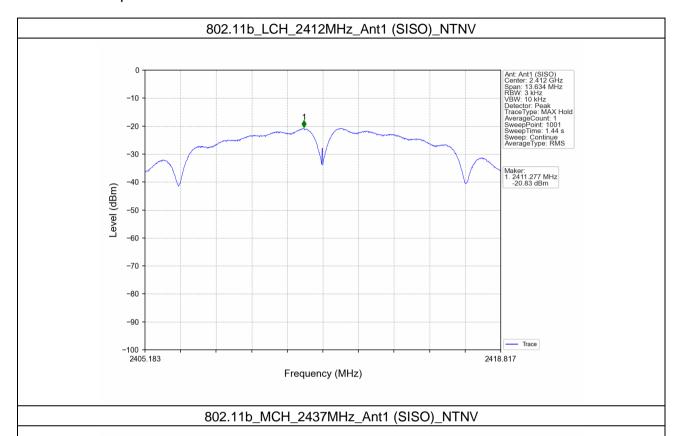


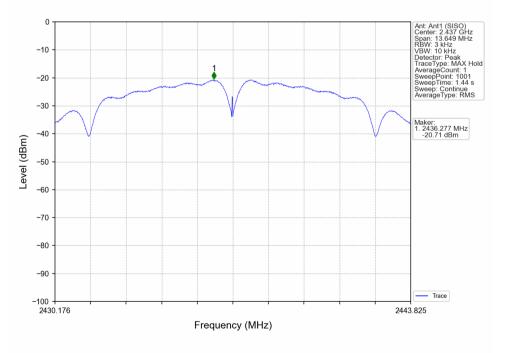
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### 4.1.2 Test Graph







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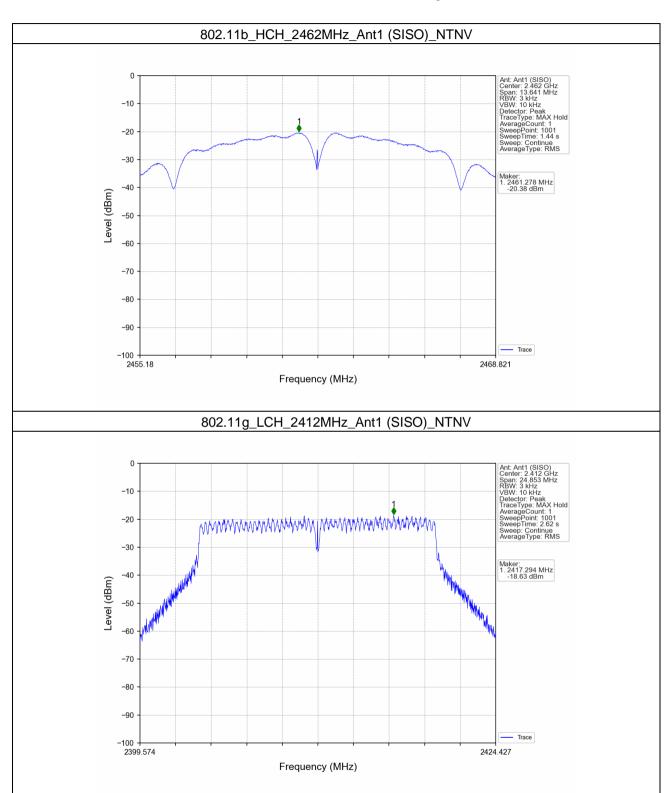
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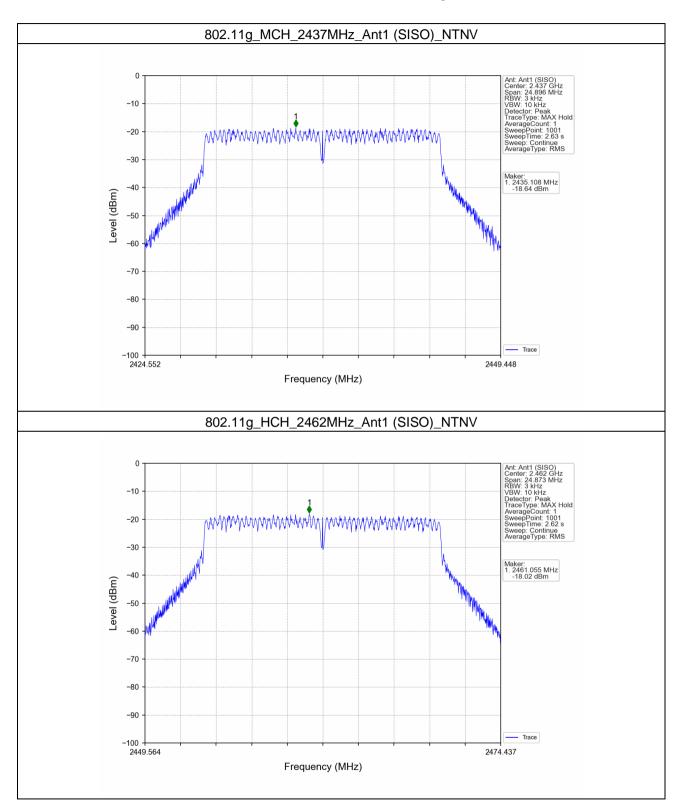
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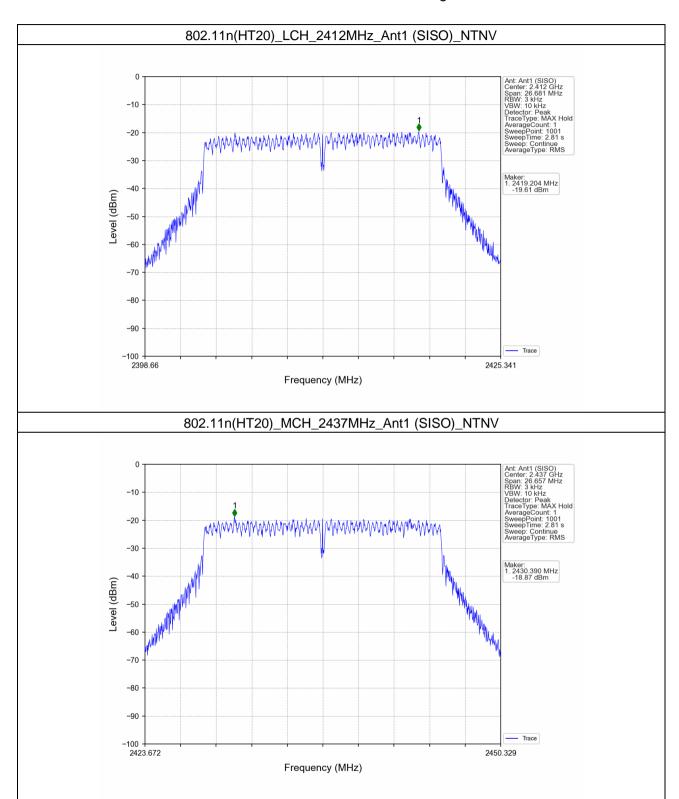
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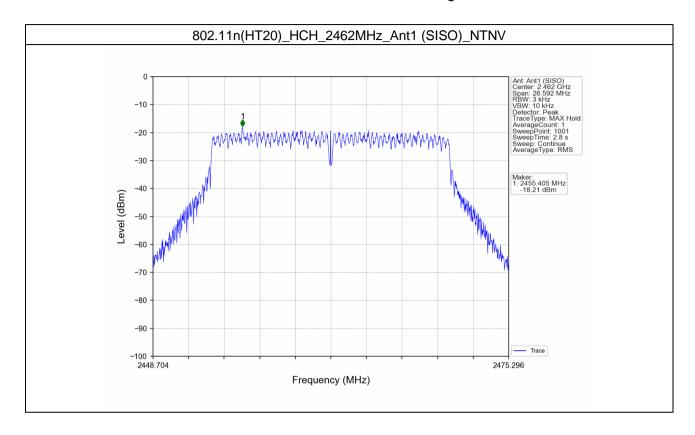
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### 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.73
		2437	1	-0.64
		2462	1	-0.28
802.11g	SISO	2412	1	-4.29
		2437	1	-4.13
		2462	1	-3.78
802.11n (HT20)	SISO	2412	1	-5.53
		2437	1	-4.82
		2462	1	-4.40

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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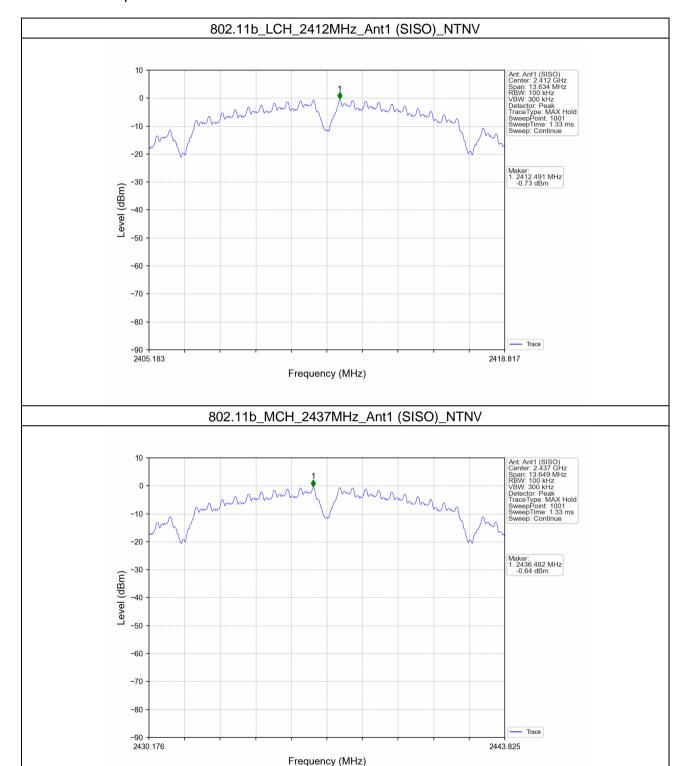


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### 5.1.2 Test Graph





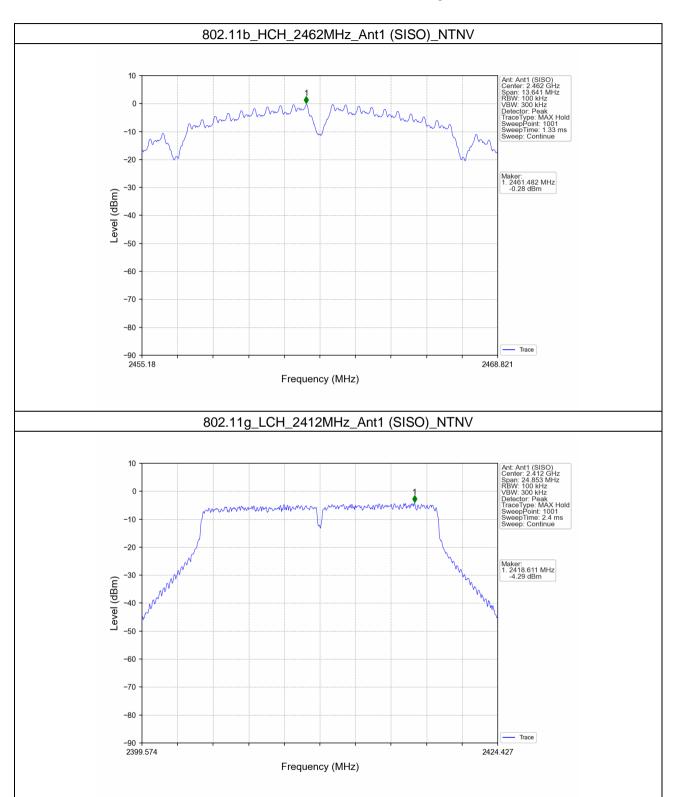
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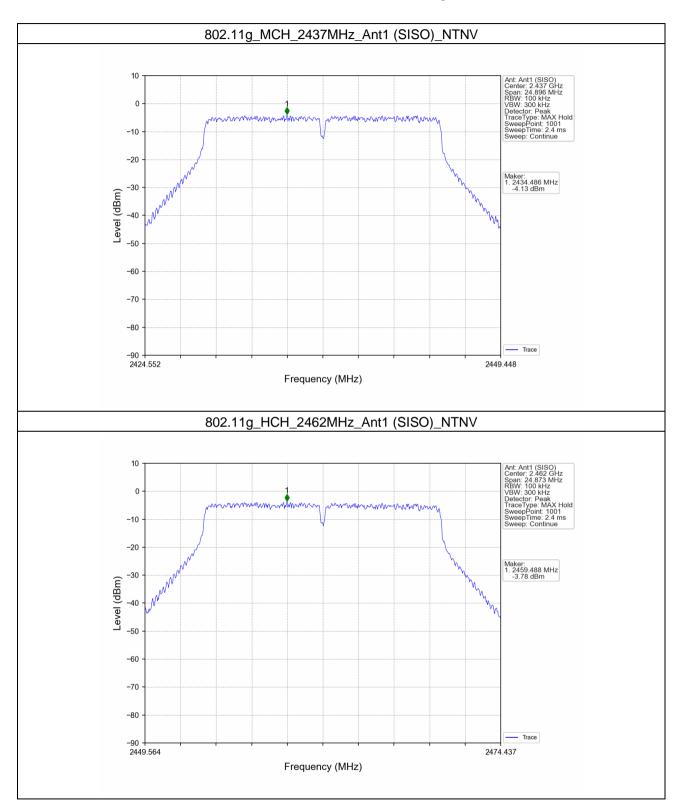
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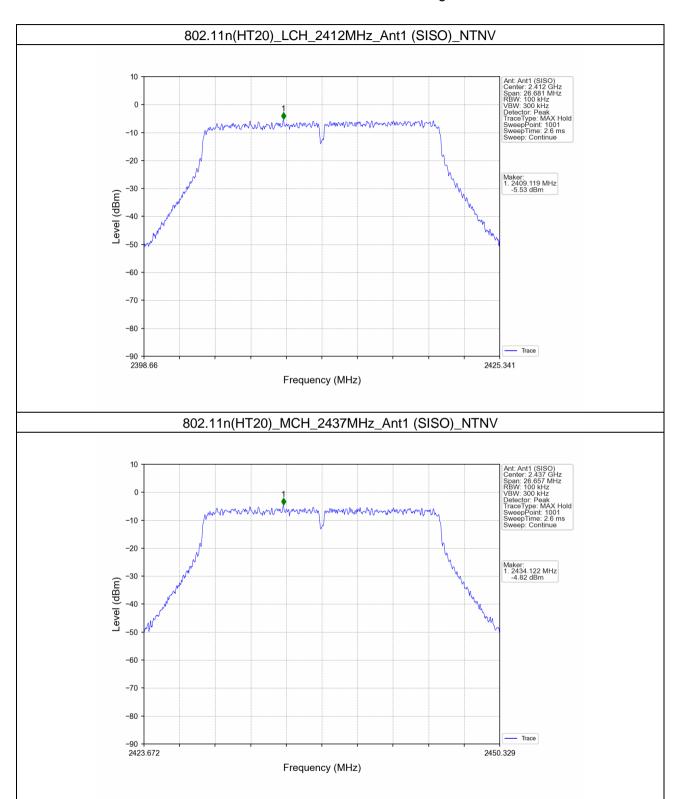
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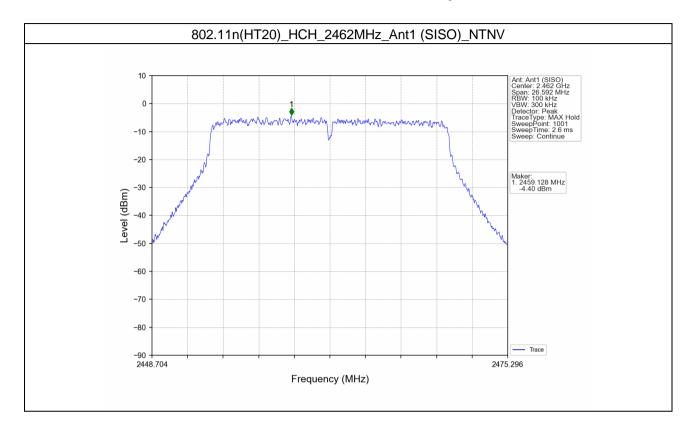
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#### 5.2 CSE

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.28	-20.28	Pass
		2437	1	-0.28	-20.28	Pass
		2462	1	-0.28	-20.28	Pass
802.11g	SISO	2412	1	-3.78	-23.78	Pass
		2437	1	-3.78	-23.78	Pass
		2462	1	-3.78	-23.78	Pass
802.11n (HT20)	SISO	2412	1	-4.40	-24.40	Pass
		2437	1	-4.40	-24.40	Pass
		2462	1	-4.40	-24.40	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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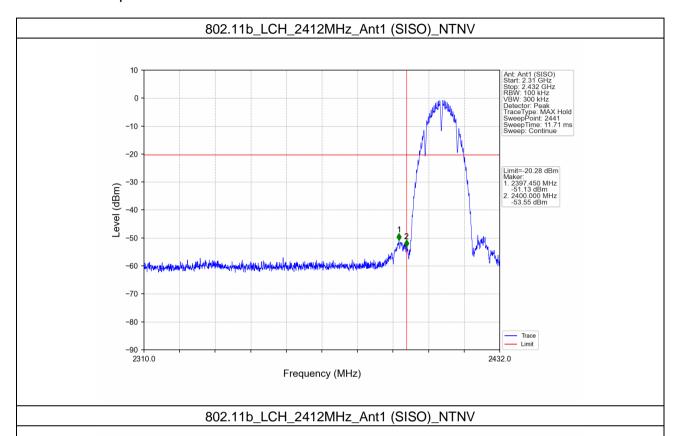


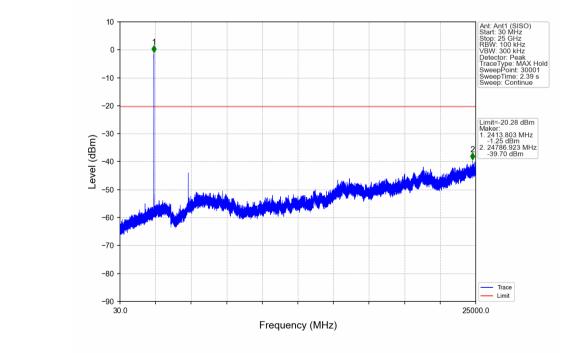
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### 5.2.2 Test Graph







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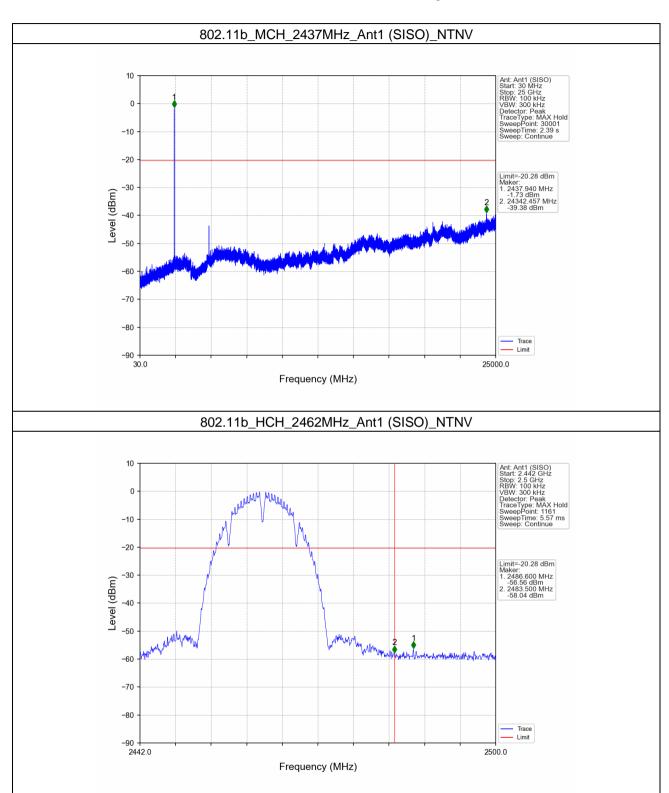
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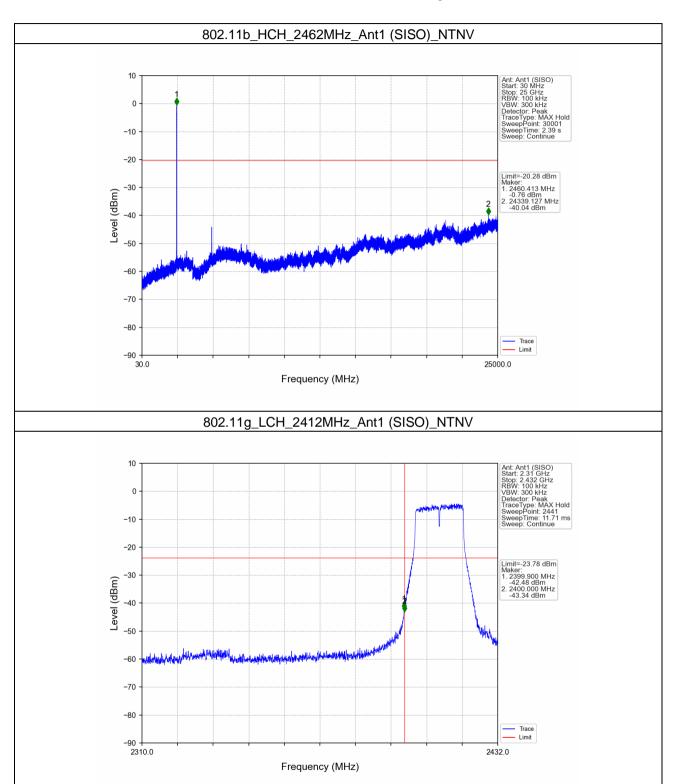
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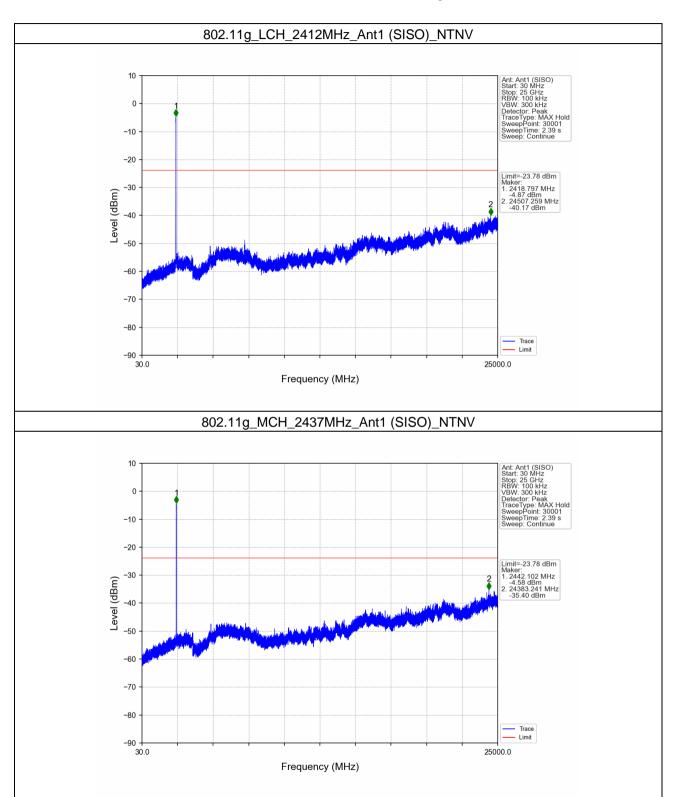
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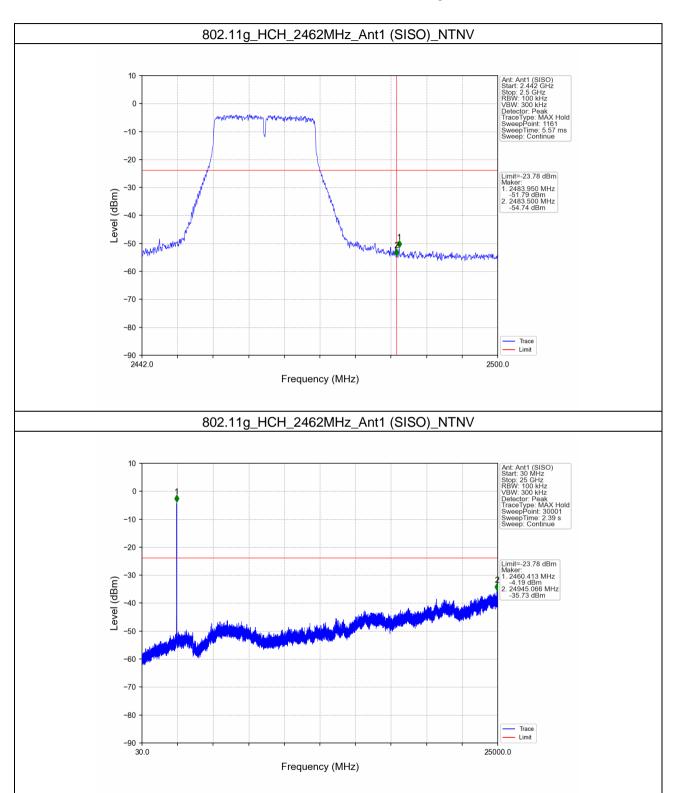
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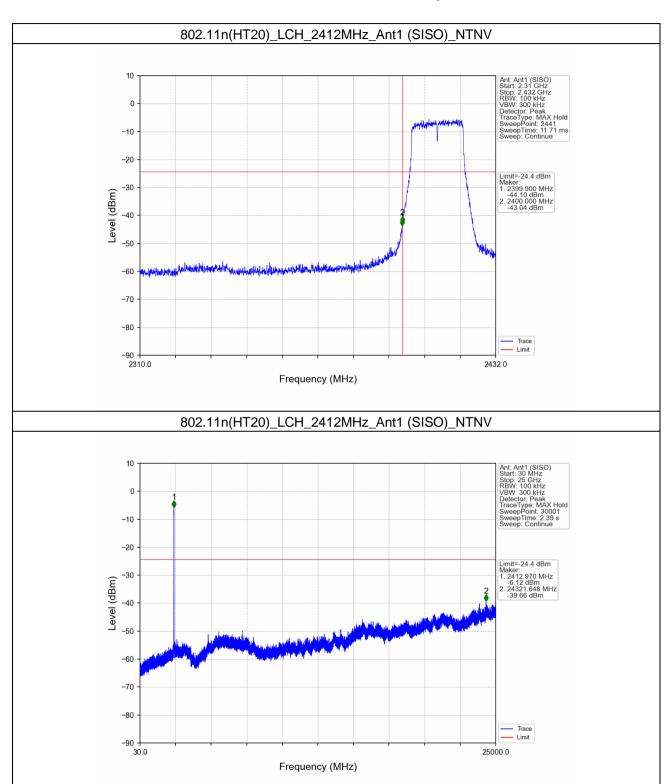
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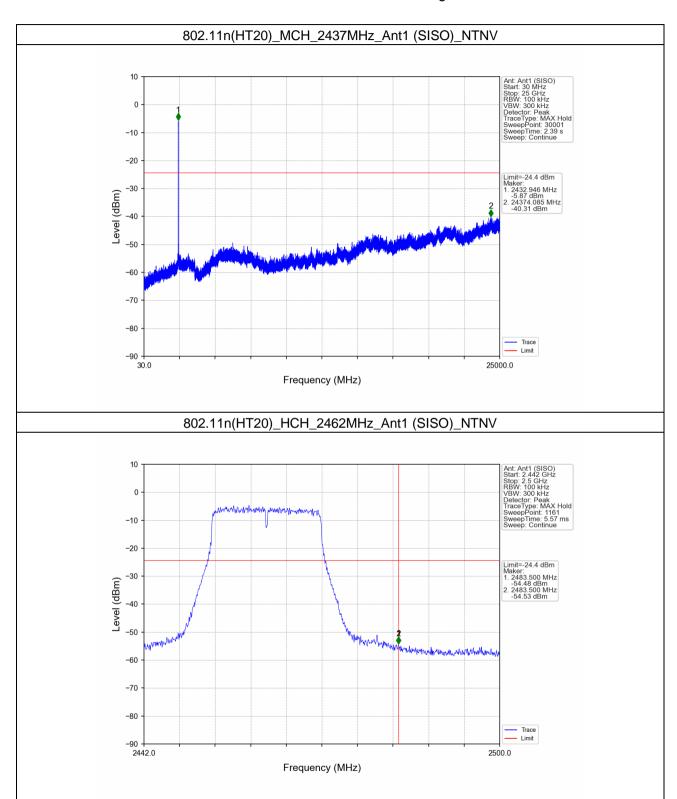
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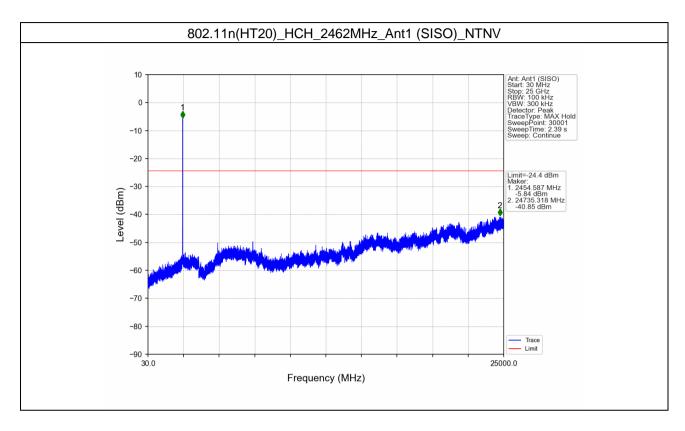
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