

FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

PHROZEN TECH CO.,LTD.

Desktop 3D Printer

Phrozen Sonic LS+ 3D Printer

FCC ID: 2BCTP-LSPLUS

Brand: 

Prepared for: PHROZEN TECH CO.,LTD.
3F., NO287, NIUPU RD., XIANGSHAN DIST., HSINCHU
CITY, Taiwan

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Date of Test : Jan.08~26, 2026
Date of Report : Jul.27, 2026

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TEST REPORT

Applicant : PHROZEN TECH CO.,LTD.
Manufacturer : PHROZEN TECH CO.,LTD.
Product : Desktop 3D Printer
FCC ID : 2BCTP-LSPLUS
(A) Model No. : Phrozen Sonic LS+ 3D Printer
(B) Brand : 
(C) Test Voltage : AC 120V/60Hz

Tested for comply with:
FCC CFR47 Part 15 Subpart E

Test procedure used:
ANSI C63.10:2020+Cor1:2023
KDB 789033 D02 General UNII Test Procedures New Rules v02r01

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to confirm comply with all the FCC Part 15 Subpart E requirements. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1074. No modifications were required during testing to bring this product into compliance.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

This report applies to single evaluation of one sample of above mentioned product and shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test: Jan.08~26, 2026 Date of Report: Jul.27, 2026

Prepared by: Hally Qiu Reviewed by: Thomas Chen
Hally Qiu / Assistant Thomas Chen / Assistant Manager



Approved & Authorized Signer:

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 FCC Part 15: 15.407(b)(9)	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.205 FCC Part 15.407(b)	PASS
Band Edge Compliance	FCC Part 15: 15.407(b) FCC Part 15.205	PASS
6dB&26dB&99% Bandwidth Test	FCC Part 15: 15.407(e)	PASS
Output Power Test	FCC Part 15: 15.407(a)	PASS
Equivalent Isotropic Radiated Power Test	FCC Part 15: 15.407	PASS
Power Spectral Density Test	FCC Part 15: 15.407(a)	PASS
Frequency Stability	FCC Part 15: 15.407(g)	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: Measurement uncertainty affection to the result is not considered, the EUT is technically compliant with standard requirements.		

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant	PHROZEN TECH CO.,LTD.
Applicant Address	3F., NO287, NIUPU RD., XIANGSHAN DIST., HSINCHU CITY, Taiwan
Manufacturer	PHROZEN TECH CO.,LTD.
Manufacturer Address	3F., NO287, NIUPU RD., XIANGSHAN DIST., HSINCHU CITY, Taiwan
Product	Desktop 3D Printer
Model No.	Phrozen Sonic LS+ 3D Printer
	The product comes in silver and red casings, with the only difference being the color; the internal structure and design are exactly the same.
Brand	
FCC ID	2BCTP-LSPLUS
Sample Type	Prototype production
Date of Receipt	Dec.22, 2025
Date of Test	Jan.08~26, 2026
Remark: This report only for WIFI 5GHz.	

2.2. Feature of Equipment Under Test

Product Feature & Specification	
Product	Desktop 3D Printer
Model No.	Phrozen Sonic LS+ 3D Printer
Power Source	100-240V AC; 50/60Hz 600W
5GHz Wi-Fi	
Support Modes	802.11a/n20/n40/ac20/ac40/ac80
Frequency Range	5180-5240MHz, 5745-5825MHz
Type of Modulation	802.11a/n (OFDM): QPSK, BPSK, 16QAM, 64QAM 802.11ac (OFDM): QPSK, BPSK, 16QAM, 64QAM, 256QAM
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps; 802.11n: up to 300Mbps; 802.11ac: up to 867Mbps;
Channel Separation	5MHz
Antenna System	
Type of Antenna	External rubber stick antenna
Antenna Number	1
Antenna Peak Gain	WIFI 2.4GHz Peak Gain: 4.47dBi WIFI 5GHz Peak Gain B1: 4.71dBi; B3: 3.86dBi
Remark: This report is for WiFi 5GHz radio specification only. EUT also supports other radio specification as below listed: Wi-Fi 2.4GHz (Test report No. ACS-F26025) Wi-Fi 5GHz (Test report No. ACS- F26026)	

2.3. Test Information

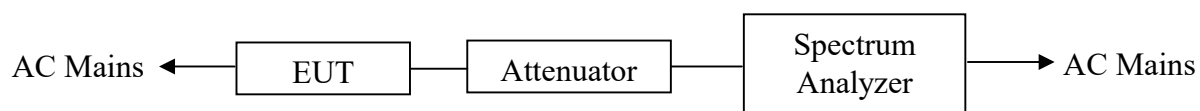
A special test software (PuTTY Release0.78) was used to control EUT work in Continuous TX mode (The duty cycle of the test signal is 100%), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11a	6	CH36	5180
	6	CH40	5200
	6	CH48	5240
	6	CH149	5745
	6	CH157	5785
	6	CH165	5825
IEEE 802.11n HT20	MCS0	CH36	5180
	MCS0	CH40	5200
	MCS0	CH48	5240
	MCS0	CH149	5745
	MCS0	CH157	5785
	MCS0	CH165	5825
IEEE 802.11n HT40	MCS0	CH38	5190
	MCS0	CH46	5230
	MCS0	CH151	5755
	MCS0	CH159	5795
IEEE 802.11ac VHT20	MCS0	CH36	5180
	MCS0	CH40	5200
	MCS0	CH48	5240
	MCS0	CH149	5745
	MCS0	CH157	5785
	MCS0	CH165	5825
IEEE 802.11ac VHT40	MCS0	CH38	5190
	MCS0	CH46	5230
	MCS0	CH151	5755
	MCS0	CH159	5795
IEEE 802.11ac VHT80	MCS0	CH42	5210
	MCS0	CH155	5775
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.			

2.4. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	ACER	ZOW	N/A
		Power Cord(3C): Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: Lite-On, M/N: PA-1900-32 Data Cable: Shielded, Undetectable, 4.0m(Bond one ferrite core)			

2.5. Block diagram of connection between the EUT and simulators



(EUT: Desktop 3D Printer)

2.6. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Nov.06,25	3 Year
2.	3m Chamber(NSA)	AUDIX	N/A	N/A	Aug.09,25	3 Year
3.	3m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,25	3 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Mar.10,25	1 Year
5.	Signal Analyzer	Rohde & Schwarz	FSV40	101608	Nov.06,25	1 Year
6.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Jun.09,25	1 Year
7.	RF Cable	Fujikura	RG55/U	No.2	Sep.28,25	1 Year
8.	Tri-log-Broadband Antenna	Schwarzbeck	VULB 9168	01856	Sep.23,25	1 Year
9.	RF Cable	TIMES MICROWAVE	LMR 400NMNM -15.00M	23070991-001	Sep.15,25	1 Year
10.	Coaxial Switch	Anritsu	MP59B	M50564	Nov.06,25	1 Year
11.	EMI Test Receiver	Rohde & Schwarz	ESR 7	103030	Jul.10,25	1 Year
12.	Amplifier	EMEC	EM 330	060948	Sep.15,25	1 Year
13.	Horn Antenna	EMCO	3115	9510-4580	Jan.21,25	3 Year
14.	Amplifier	EMCI	EMC184040SE	980507	Mar.10,25	1 Year
15.	RF Cable	eastsheep	RM086-SMA/N-JJ -1000	NO.1	Jun.09,25	1 Year
16.	Attenuator(10dB)	eastsheep	2W-SMA-JK-6G-10dB	No. 4	Mar.10,25	1 Year
17.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Mar.10,25	1 Year

Note: N/A means Not applicable.

2.7. Test Facility

Site Description

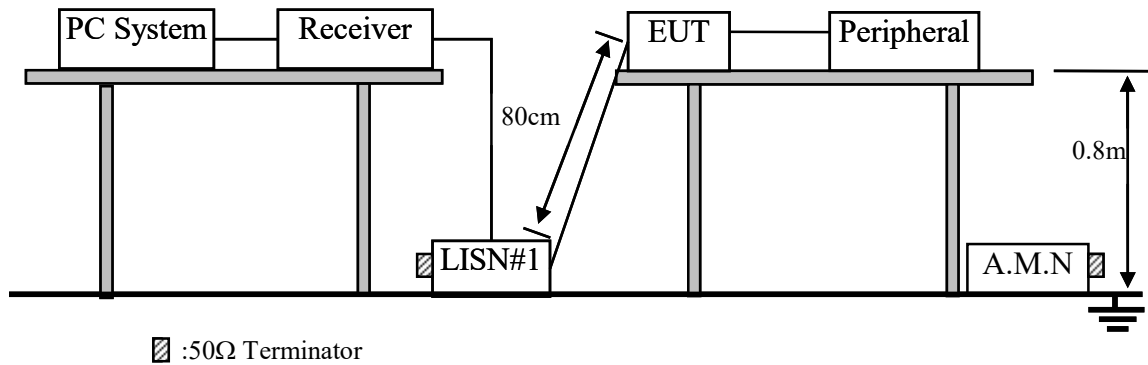
Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Kefeng Road, Science & Technology Park, Nanshan District , Shenzhen, Guangdong, China
EMC Lab.	:	Certificated by ISED, Canada Company Number: 5183A CAB identifier: CN0034 Valid Date: Mar.31, 2027
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2027
	:	Certificated by FCC, USA Designation No: CN5022 Valid Date: Mar.31, 2027

2.8. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.6dB (150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	± 3.8dB(30~200MHz, Polarization: H)
	± 3.8dB(30~200MHz, Polarization: V)
	± 4.0dB(200M~1GHz, Polarization: H)
	± 4.0dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-25GHz)	± 4.0dB(1~6GHz, Distance: 3m)
	± 4.0dB(6~25GHz, Distance: 3m)
Uncertainty for S _{VSWR} in 3m chamber	± 2.8dB(1~6GHz, Distance: 3m)
	± 2.8dB(6~25GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	± 3.7dB(30MHz~1000MHz)
	± 3.3dB(1~26.5GHz)
Uncertainty for Conduction Spurious emission test	± 2.0dB
Uncertainty for Output power test	± 0.8dB
Uncertainty for Bandwidth test	± 83kHz
Uncertainty for DC power test	± 1%
Uncertainty for test site temperature and humidity	± 0.6°C
	± 3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Block Diagram of Test Setup



3.2. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

- Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limits shall apply at the transition frequencies.
3. Emission Level (dBμV) = Factor (L.I.S.N.) (dB) + Cable Loss (dB)+Reading (Receiver) (dBμV)

3.3. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.3.1. Desktop 3D Printer (EUT)

Model No. : Phrozen Sonic LS+ 3D Printer
Serial No. : N/A

3.3.2. Support Equipment: As Tested Supporting System Details, in Section 2.4.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT as shown as Section 3.1.
- 3.4.2. Turn on the power of EUT.
- 3.4.3. PC run test software to control EUT work in Tx mode.

3.5. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Adapter unit connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Test.

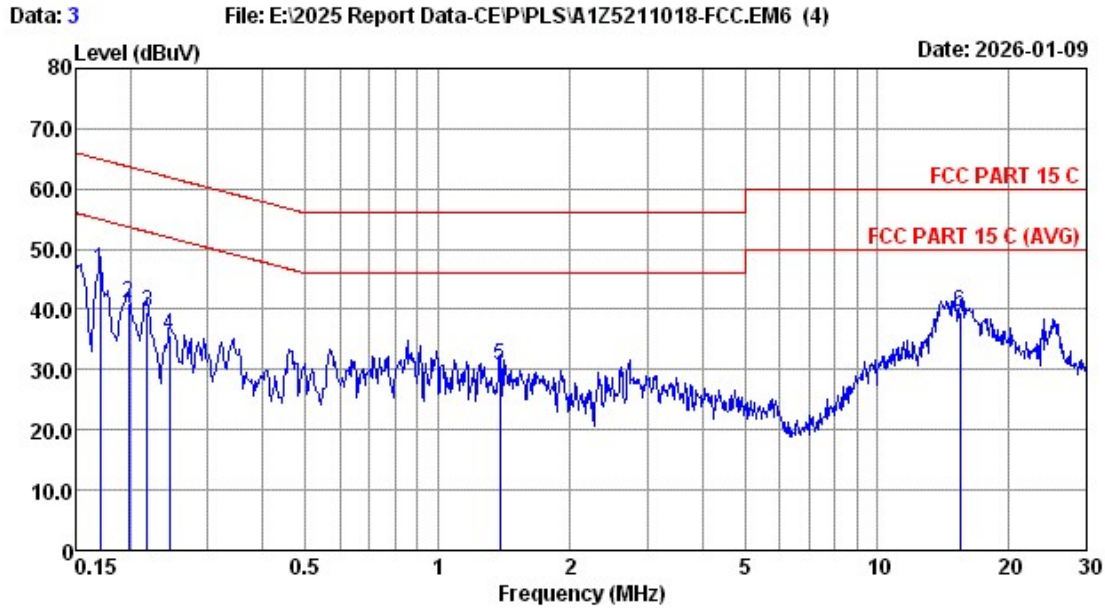
The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.6. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits and worst case reported.)

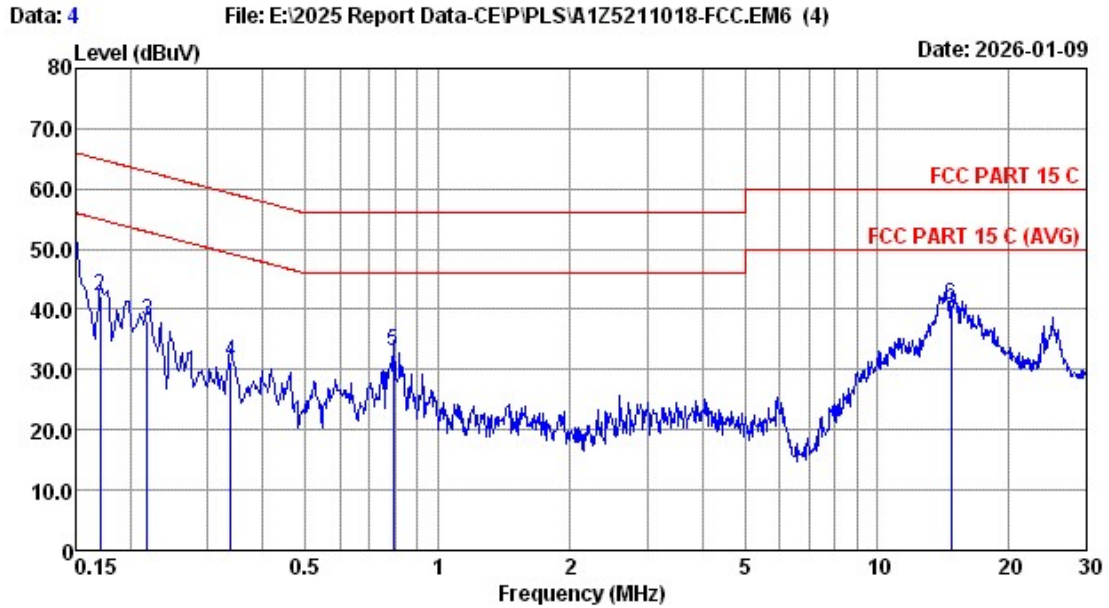
Note: The emissions reported worst case of four bands.



Site no :1# CE Data No :3
 Dis./Lisn :2025 ENV216 0.15-30M LISN phase:NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :24.2°C/53% Engineer :Fire
 Test Mode :WIFI5G TX Mode

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.170	9.65	0.02	37.00	46.67	64.94	18.27	QP
2	0.198	9.65	0.02	31.48	41.15	63.71	22.56	QP
3	0.219	9.65	0.02	29.95	39.62	62.88	23.26	QP
4	0.246	9.64	0.02	26.06	35.72	61.91	26.19	QP
5	1.388	9.62	0.04	20.91	30.57	56.00	25.43	QP
6	15.470	9.71	0.14	29.71	39.56	60.00	20.44	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :1# CE Data No :4
 Dis./Lisn :2025 ENV216 0.15-30M LISN phase:LINE
 Limit :FCC PART 15 C
 Env./Ins. :24.2°C/53% Engineer :Fire
 Test Mode :WIFI5G TX Mode

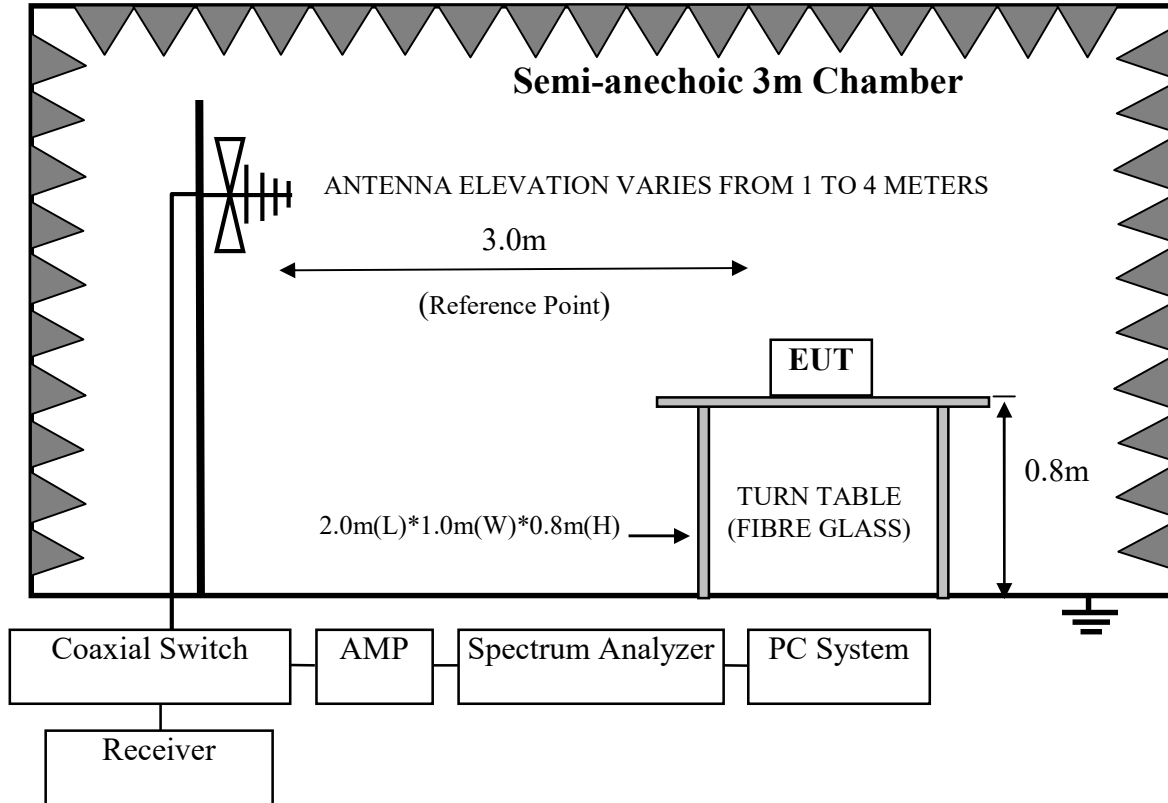
No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	9.62	0.02	40.24	49.88	66.00	16.12	QP
2	0.170	9.62	0.02	32.59	42.23	64.94	22.71	QP
3	0.219	9.63	0.02	28.51	38.16	62.88	24.72	QP
4	0.337	9.61	0.03	21.72	31.36	59.27	27.91	QP
5	0.792	9.65	0.04	23.26	32.95	56.00	23.05	QP
6	14.750	9.76	0.14	30.90	40.80	60.00	19.20	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

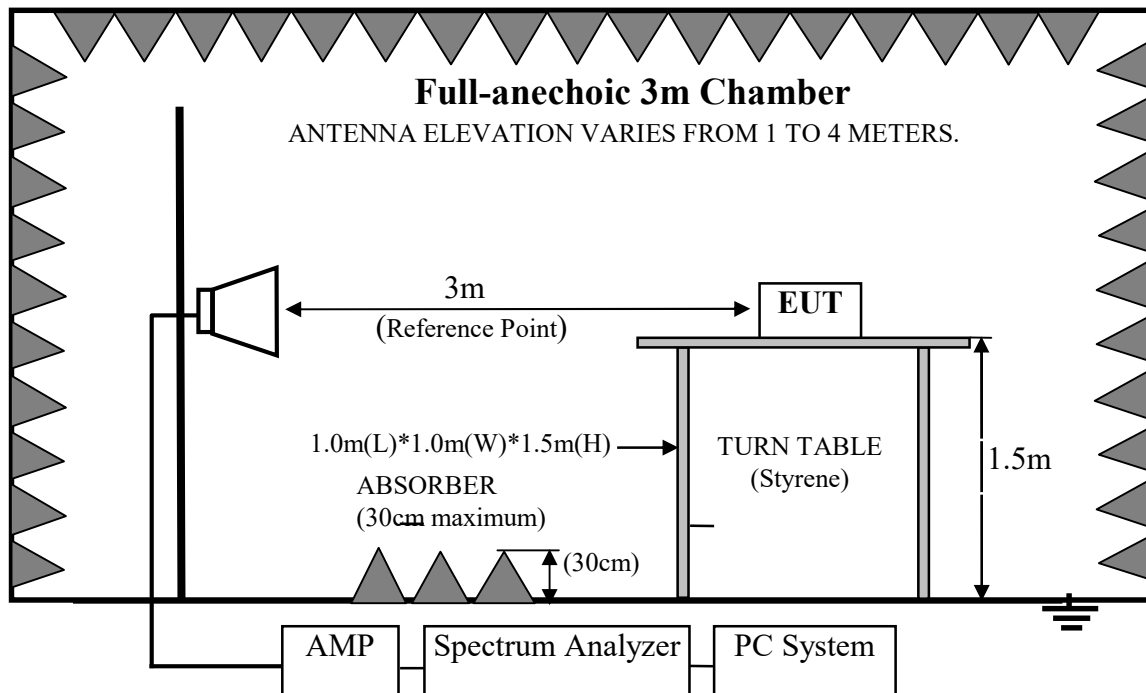
4. RADIATED EMISSION TEST

4.1. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-40GHz



4.2.Radiated Emission Limit

For transmitters operating in the 5.15-5.25GHz; 5.25-5.35GHz; 5.47-5.725GHz, 5.725-5.850GHz band: all emissions outside of those band shall not exceed an EIRP of -27 dBm/MHz. Unwanted emissions below 1 GHz and those emissions appearing within 15.205 restricted frequency bands must comply with the general field strength limits set forth in Section 15.209

4.2.1.15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remarks : (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$

(2) Emission Level ($\text{dB}\mu\text{V/m}$) = Reading (Receiver) ($\text{dB}\mu\text{V}$) + Antenna Factor (dB/m) + Cable Loss (dB)(Below 1000MHz)

Emission Level ($\text{dB}\mu\text{V/m}$) = Reading (Spectrum) ($\text{dB}\mu\text{V}$) + Antenna Factor (dB/m) – Amp Factor (dB) + Cable Loss (dB)(Above 1000MHz)

(3) The smaller limit shall apply at the cross point between two frequency bands.

(4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.2.2.15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

4.3.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

4.3.1.Desktop 3D Printer (EUT)

Model No. : Phrozen Sonic LS+ 3D Printer

Serial No. : N/A

4.3.2.Support Equipment: As Tested Supporting System Details, in Section 2.4.

4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipments.

4.4.3.Let EUT work in Tx mode.

4.5.Test Procedure

Frequency below 30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 regulation.

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it.EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10 on radiated emission Test.

For emissions below 1GHz and those emissions appearing within 15.205 restricted frequency bands use below procedure:

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

Maximum Peak emission levels are measured by setting the analyzer as follows:

- (a) RBW = 1 MHz.
- (b) VBW $\geq$ 3 MHz.
- (c) Detector = Peak.
- (d) Sweep time = auto.
- (e) Trace mode = max hold.
- (f) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50% duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

Maximum Average emission levels are measured by setting the analyzer as follows:

- (a) RBW = 1 MHz.
- (b) VBW $\geq$ 3 MHz.
- (c) Detector = power averaging (rms), if $\text{span}/(\# \text{ of points in sweep}) \leq \text{RBW}/2$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.
- (d) Averaging type = power averaging (rms)
As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
- (e) Sweep time = auto.
- (f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of $1/x$, where x is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)
- (g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.
 - If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.
 - If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

For the emissions above 1GHz and not appearing within 15.205 restricted frequency bands use below procedure:

- (1).The maximum emission at 3m distance was measured and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by lowering the receive antenna.
- (2).The EUT was then removed and replaced with a substitution antenna in the same position and the substitution antenna must have the same polarization with the receive antenna.
- (3). A signal which have the same frequency obtained in step 2 was fed to the substitution, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver, the level of the signal generator was adjusted until the measured field strength level in step 2 was obtained, recorded the level of the signal generator.
- (4).Repeated step 4 with both antenna polarizations
- (5).The spurious emissions is equal to the power supplied by the signal generator and corrections due to the gain of the substitution antenna and the cable loss between the signal generator and the substitution antenna. or use procedure (6).
- (6). Per KDB789033 clause H 2)d).if the test distance is 3m,the $EIRP(dBm) = E(dB\mu V/m) - 95.2$
Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.
We had checked frequency range that is 30MHz to 10th harmonic (40GHz) and no any emissions were found from 18GHz to 40GHz, so the radiated emission from 18GHz to 40GHz were not record.

4.6.Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 1 GHz were comply with RSS-GEN Table 4 limit.

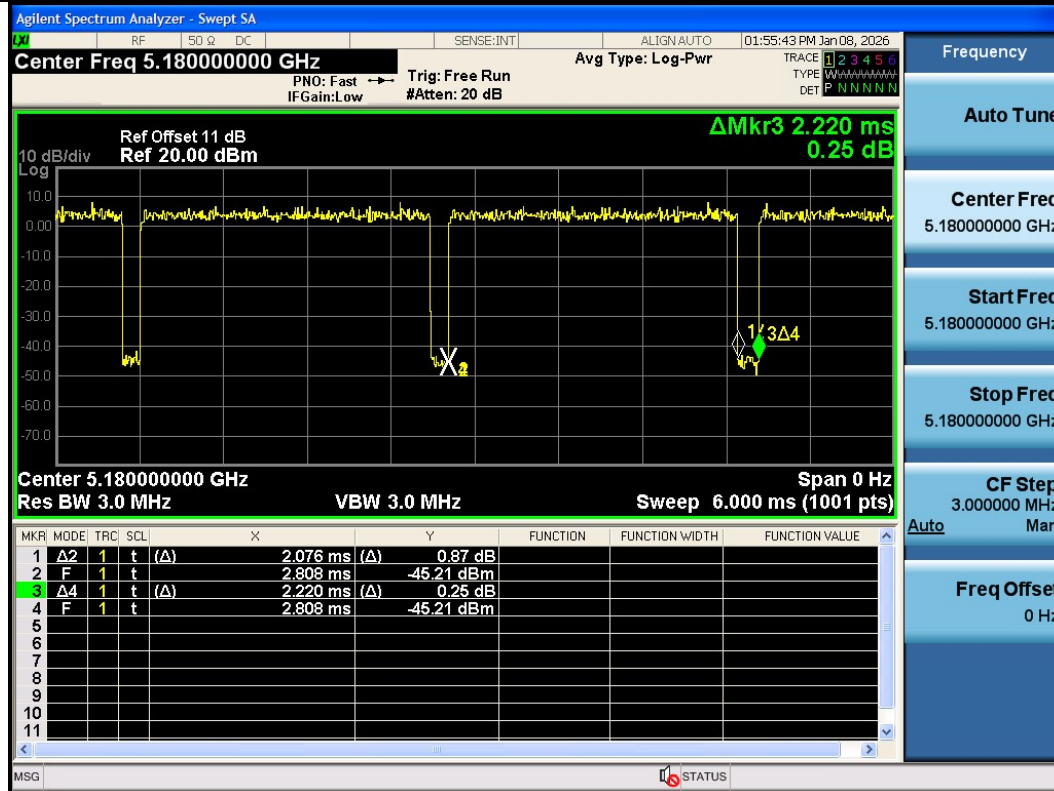
No any emissions were found from 18GHz to 40GHz. So the Radiated emission from 18GHz to 40GHz were not record.

Note 1: The emissions (9kHz~30MHz) not reported for there is no emission be found.

Note 2: The emissions (30-1000MHz) reported worst case of four bands.

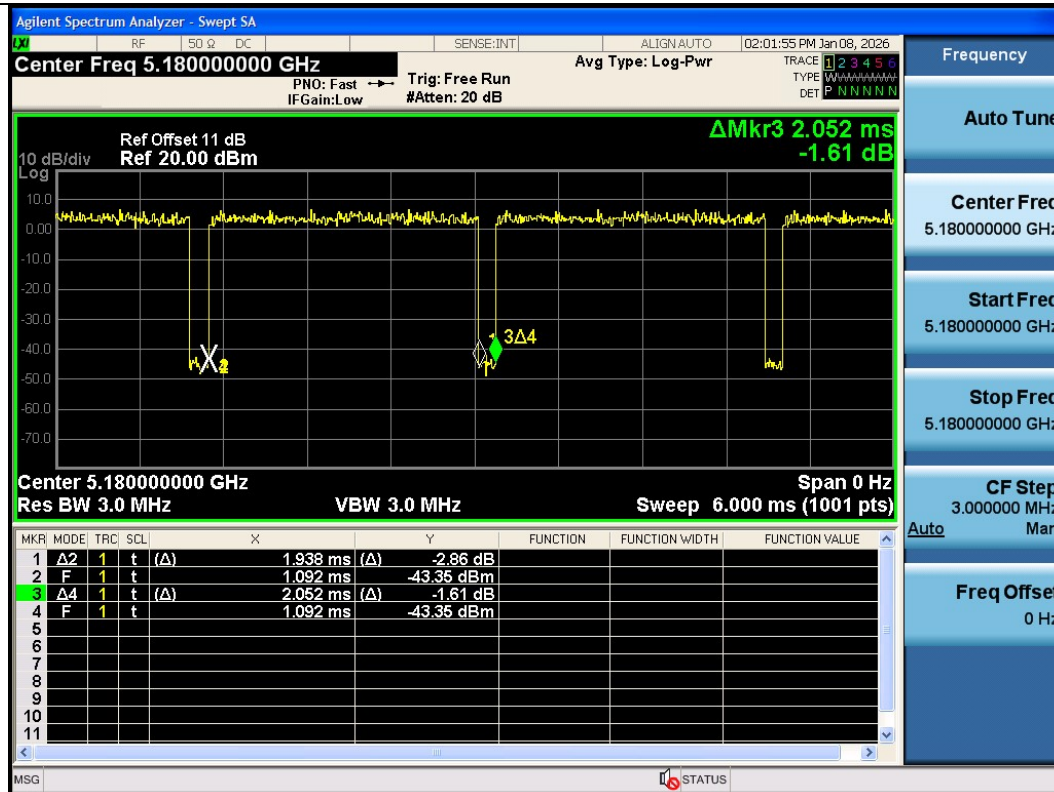
Duty cycle

11 a



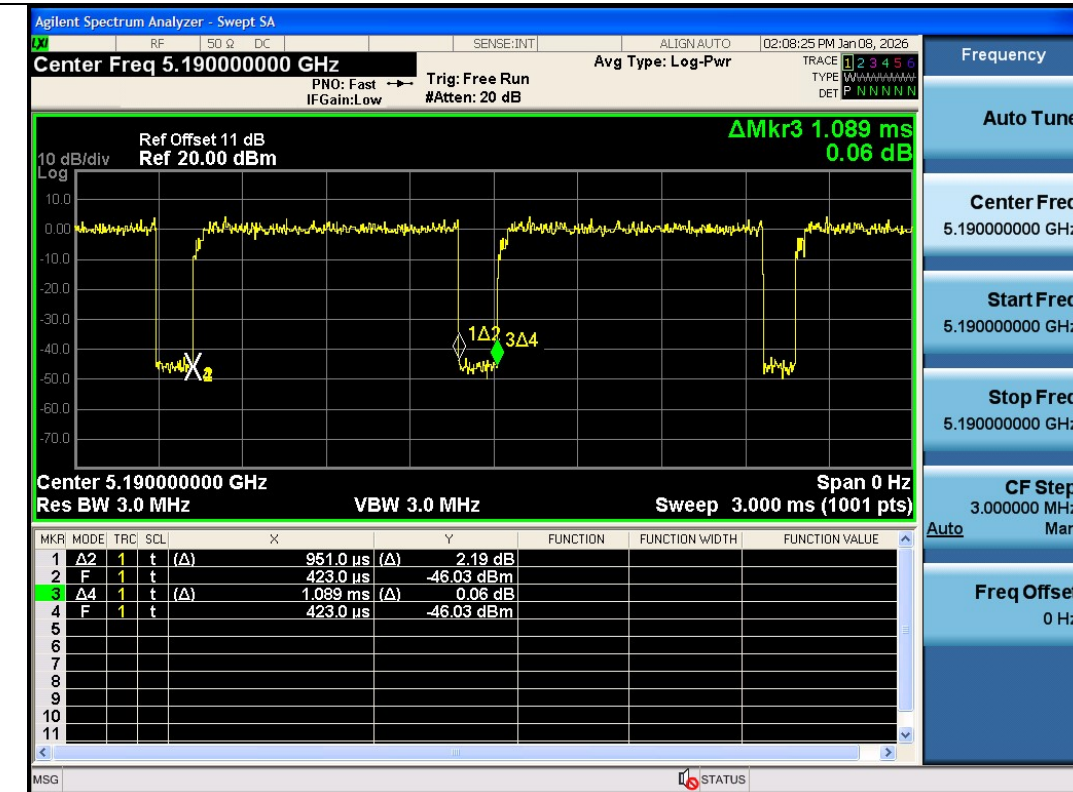
Note: The duty cycle is 93.51%.

11n HT20



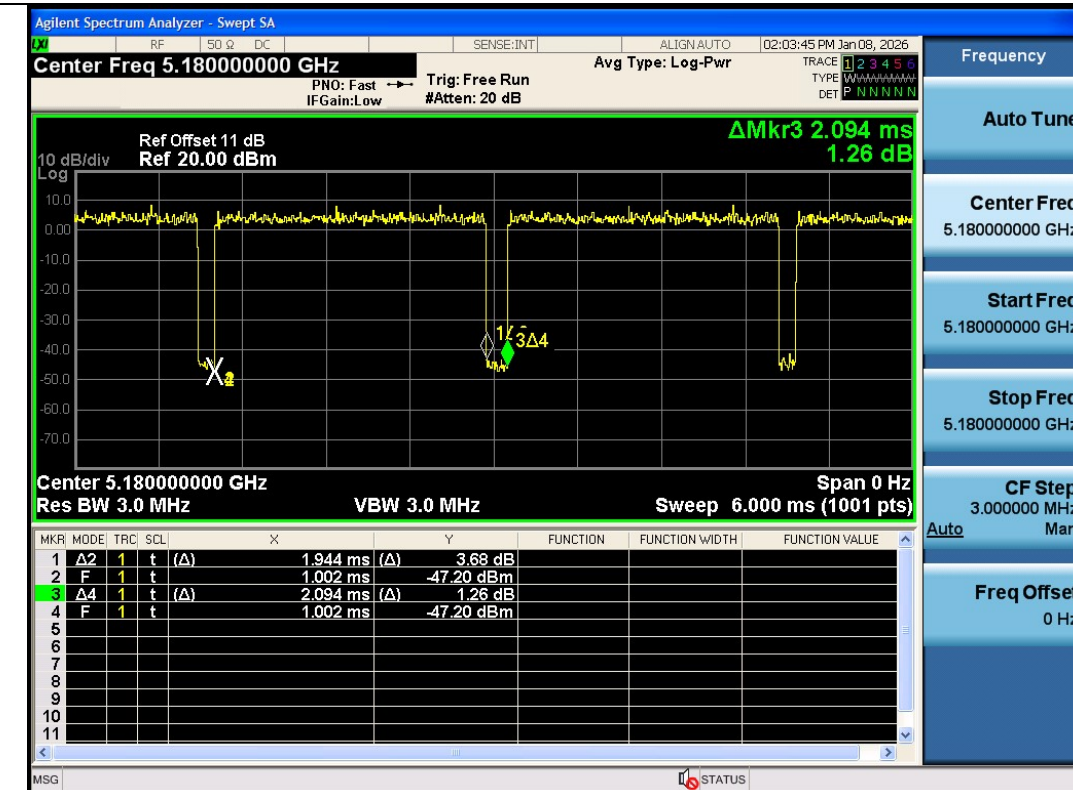
Note: The duty cycle is 94.44%.

11n HT40



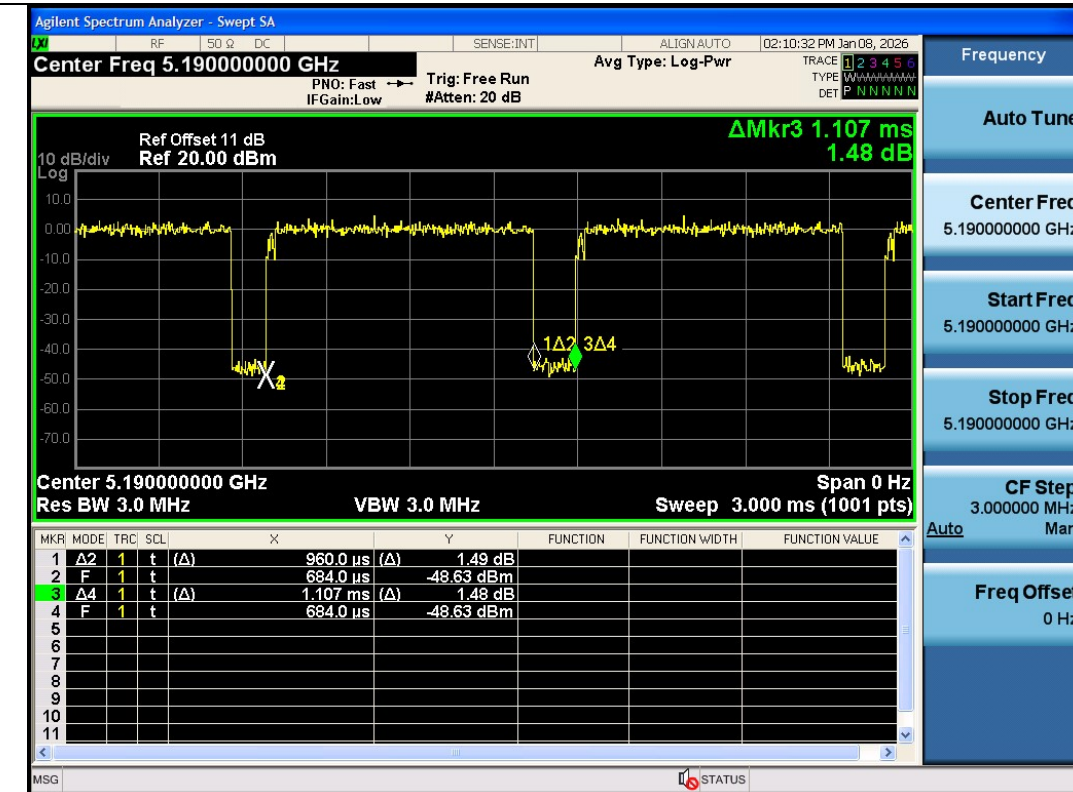
Note: The duty cycle is 87.33%.

11ac VHT20



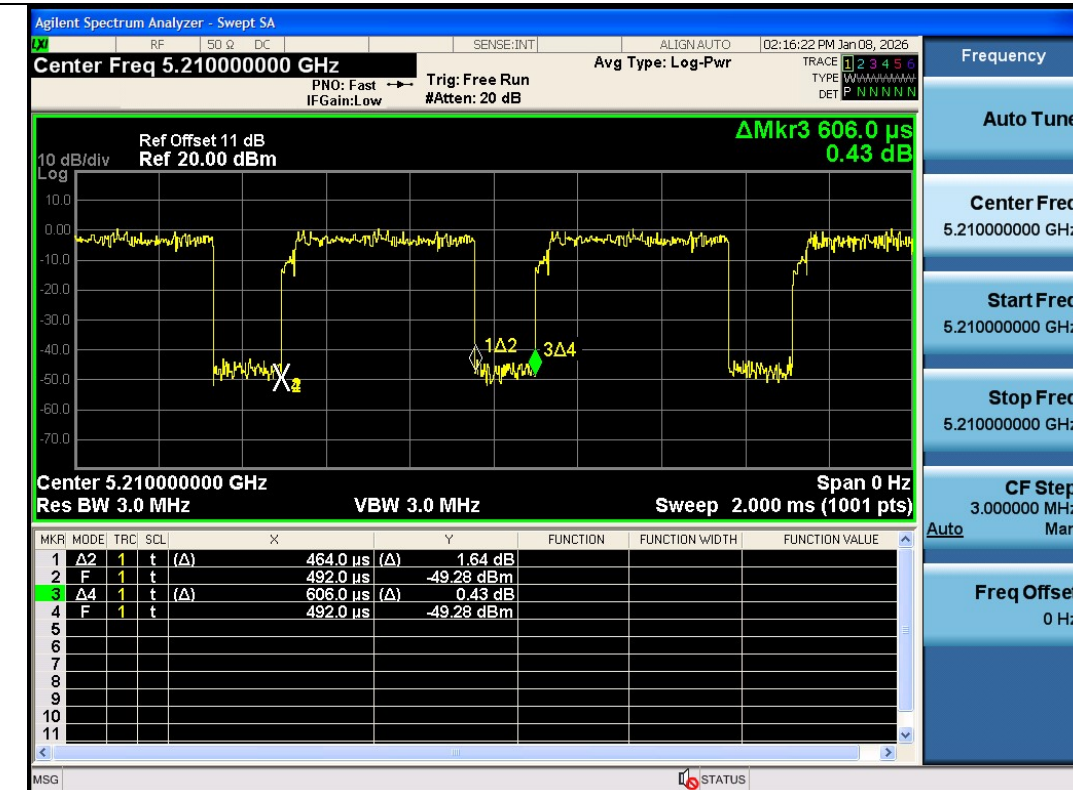
Note: The duty cycle is 92.84%.

11ac VHT40



Note: The duty cycle is 86.72%.

11ac VHT80



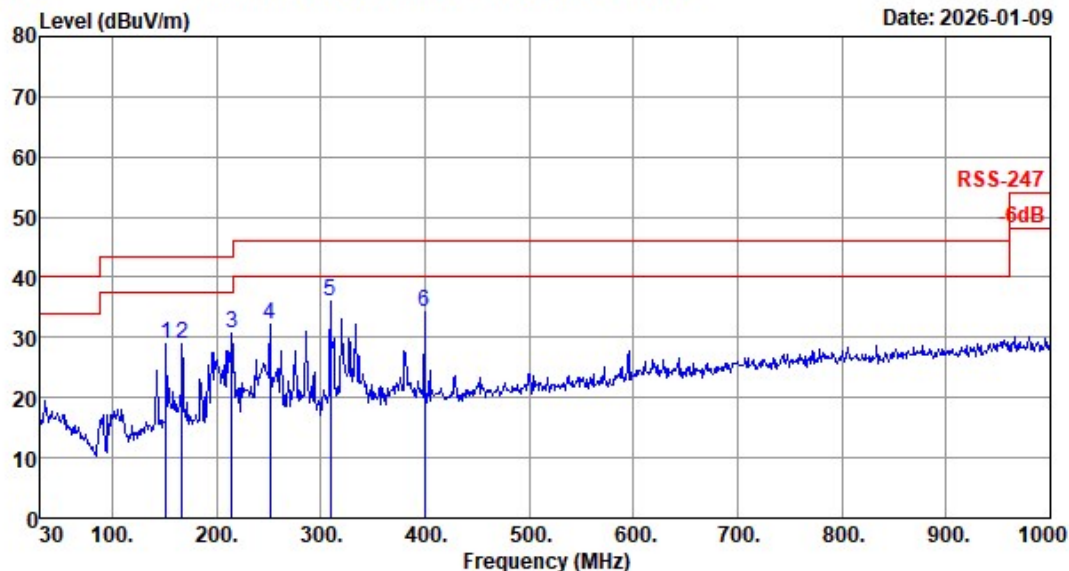
Note: The duty cycle is 76.57%.

Frequency: 30MHz~1GHz

Data: 4

File: D:\2025 Report Data\PIPLS\20251223.EM6 (4)

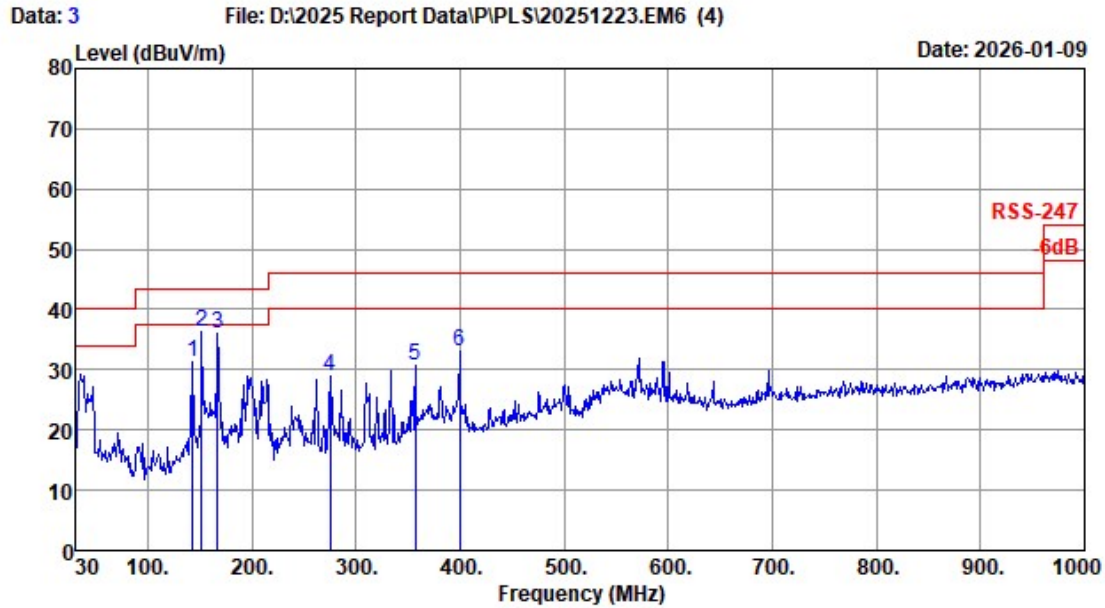
Date: 2026-01-09



Site no. : RF Chamber Data no. : 4
 Dis. / Ant. : 3m 2025 VULB 9168-01856 Ant. pol. : HORIZONTAL
 Limit : RSS-247
 Env. / Ins. : Temp:23.5°C Humi:44% Engineer : Hongjie
 Test Mode : WIFI5G TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	151.250	17.70	0.76	31.20	41.65	28.91	43.50	14.59	QP
2	166.770	18.20	0.80	31.17	41.10	28.93	43.50	14.57	QP
3	214.300	14.41	0.91	31.09	46.51	30.74	43.50	12.76	QP
4	251.160	16.90	0.99	31.05	45.27	32.11	46.00	13.89	QP
5	309.360	18.77	1.09	30.99	47.29	36.16	46.00	9.84	QP
6	399.570	20.79	1.26	30.90	43.15	34.30	46.00	11.70	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

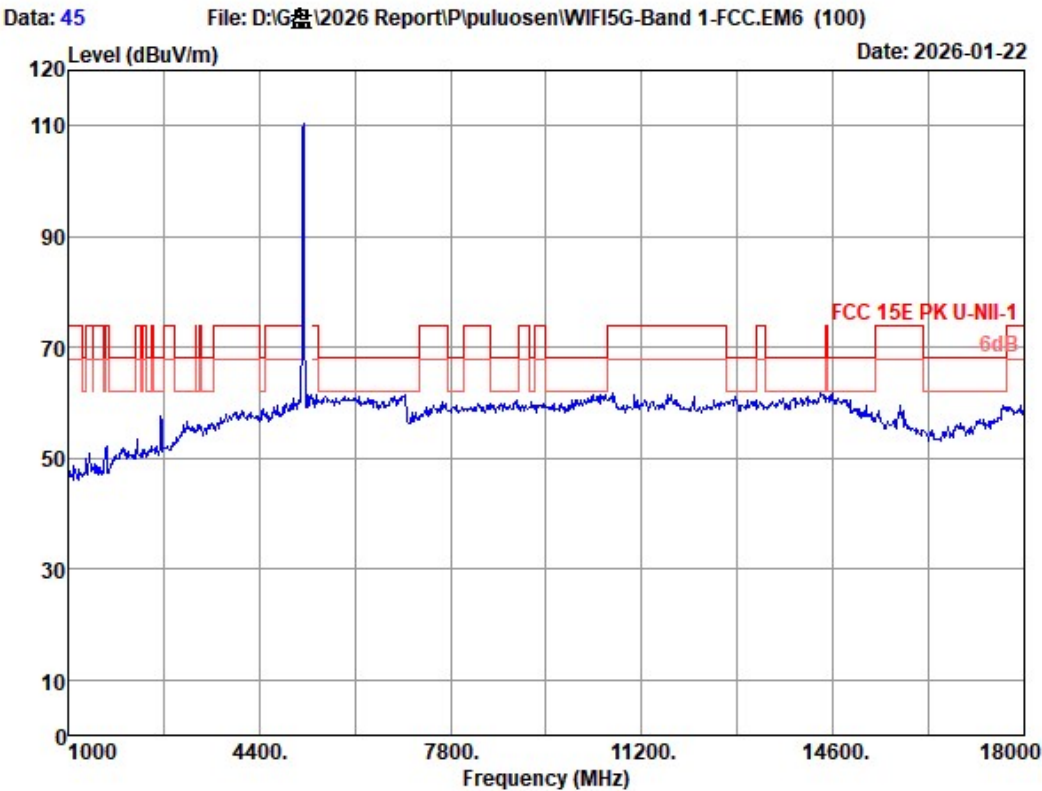


Site no. : RF Chamber Data no. : 3
 Dis. / Ant. : 3m 2025 VULB 9168-01856 Ant. pol. : VERTICAL
 Limit : RSS-247
 Env. / Ins. : Temp:23.5°C Humi:44% Engineer : Hongjie
 Test Mode : WIFI5G TX Mode

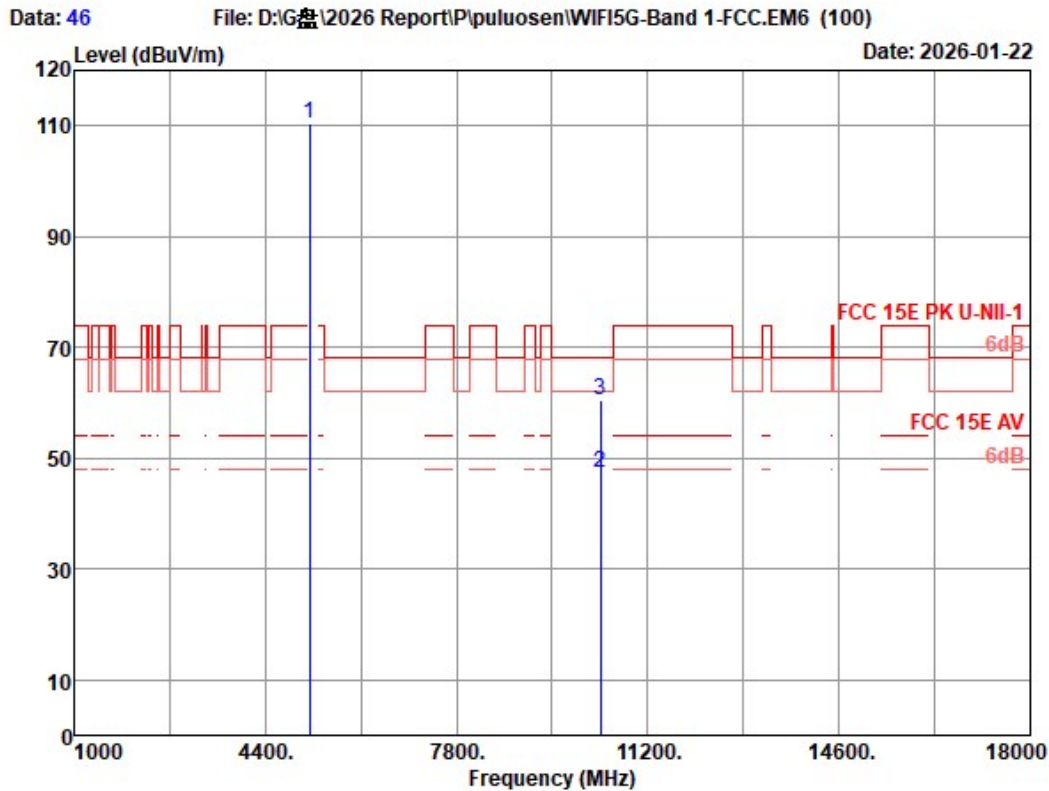
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	142.520	17.40	0.74	31.22	44.23	31.15	43.50	12.35	QP
2	151.250	17.70	0.76	31.20	49.01	36.27	43.50	7.23	QP
3	166.770	18.20	0.80	31.17	48.17	36.00	43.50	7.50	QP
4	275.410	17.82	1.03	31.02	41.13	28.96	46.00	17.04	QP
5	356.890	19.68	1.18	30.94	40.66	30.58	46.00	15.42	QP
6	399.570	20.79	1.26	30.90	41.86	33.01	46.00	12.99	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

Frequency: 1GHz~18GHz
U-NII-1 Band:



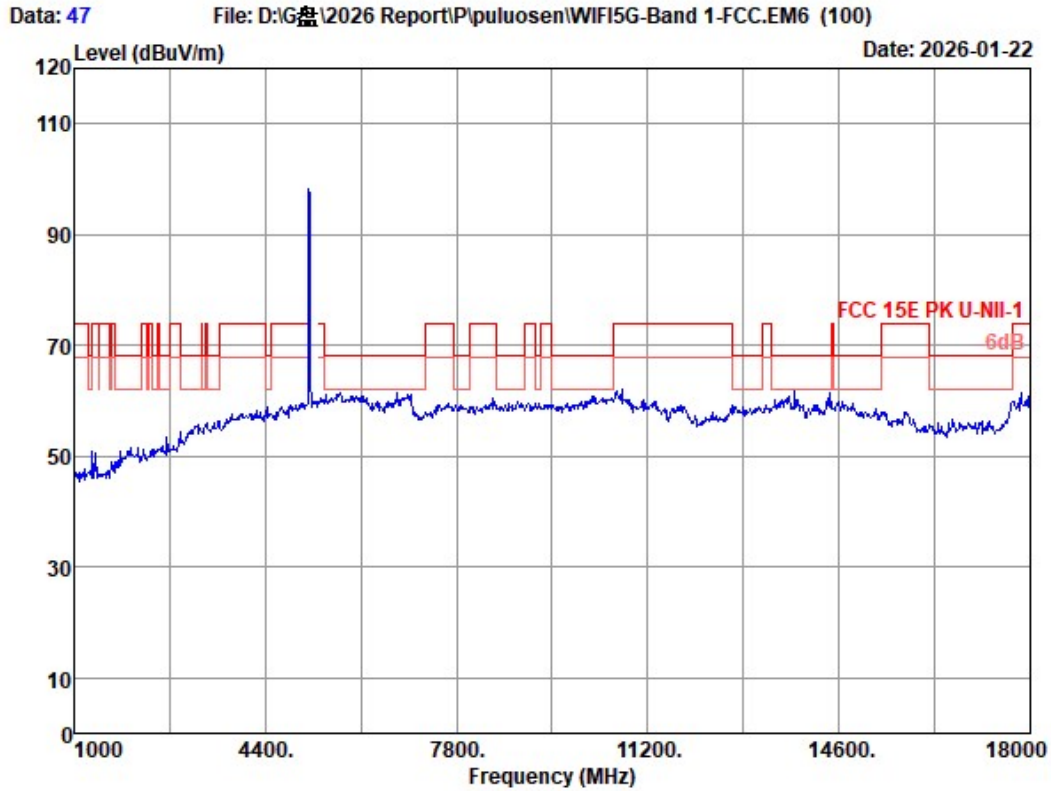
Site no.	: 3m Chamber	Data no.	: 45
Dis. / Ant.	: 3m 2025-3115-4580	Ant. pol.	: HORIZONTAL
Limit	: FCC 15E PK U-NII-1	Engineer	: Epoch
Env. / Ins.	: 23.2°C/52.6%		
Test Mode	: WIFI5G 11a 5180MHz TX Mode		



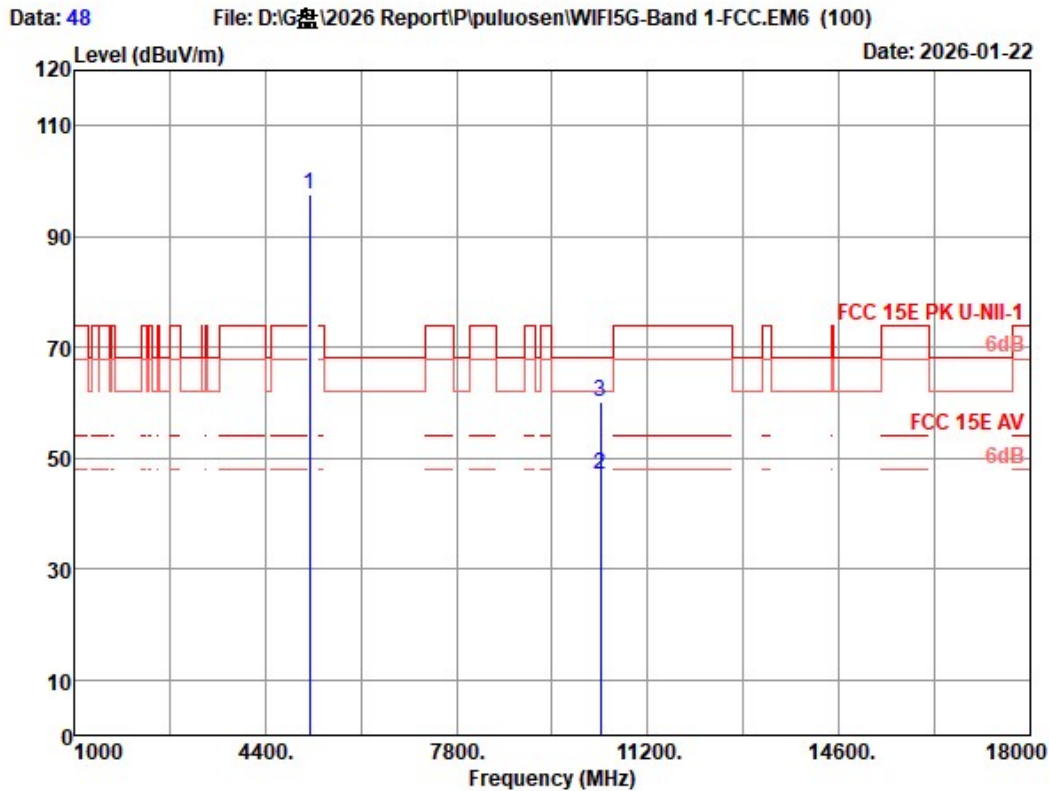
Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1 Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI5G 11a 5180MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	5180.000	33.28	1.00	31.36	107.39	110.31	-----	-----	Peak
2	10360.000	37.90	1.16	32.17	40.62	47.51	-----	-----	Average
3	10360.000	37.90	1.16	32.17	53.62	60.51	68.20	7.69	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



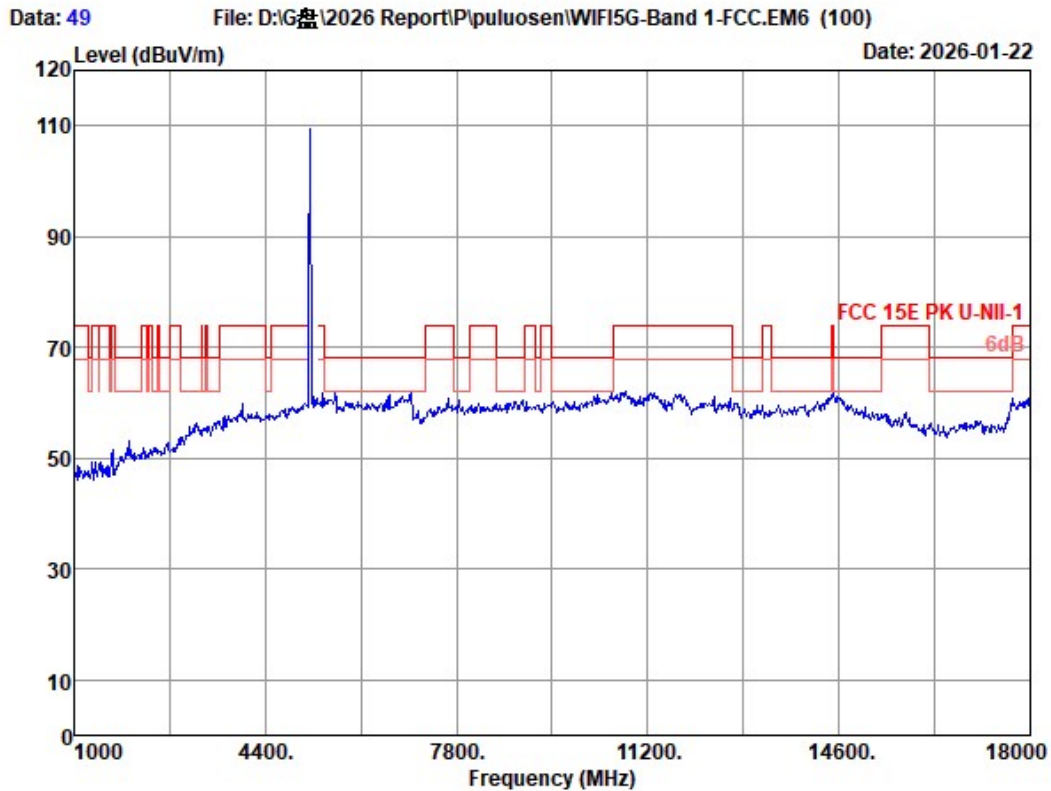
Site no.	: 3m Chamber	Data no.	: 47
Dis. / Ant.	: 3m 2025-3115-4580	Ant. pol.	: VERTICAL
Limit	: FCC 15E PK U-NII-1	Engineer	: Epoch
Env. / Ins.	: 23.2°C/52.6%		
Test Mode	: WIFI5G 11a 5180MHz TX Mode		



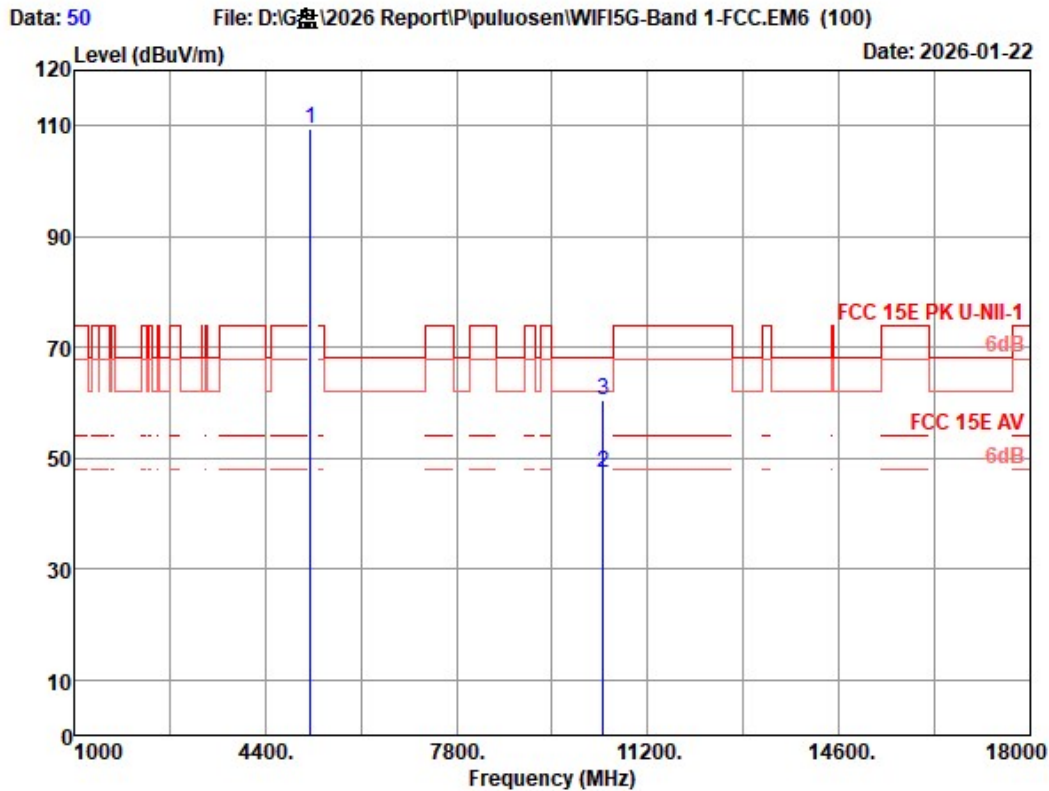
Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1 Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI5G 11a 5180MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	5180.000	33.28	1.00	31.36	94.75	97.67	-----	-----	Peak
2	10360.000	37.90	1.16	32.17	40.15	47.04	-----	-----	Average
3	10360.000	37.90	1.16	32.17	53.15	60.04	68.20	8.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



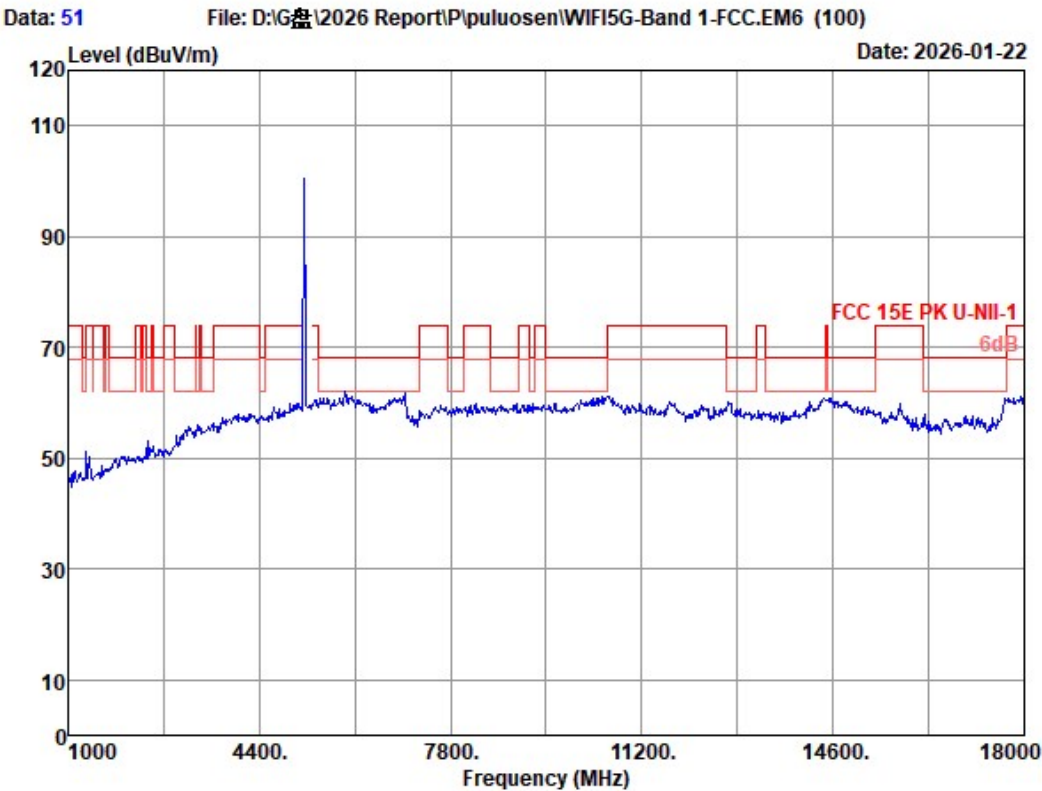
Site no.	: 3m Chamber	Data no.	: 49
Dis. / Ant.	: 3m 2025-3115-4580	Ant. pol.	: HORIZONTAL
Limit	: FCC 15E PK U-NII-1	Engineer	: Epoch
Env. / Ins.	: 23.2°C/52.6%		
Test Mode	: WIFI5G 11a 5200MHz TX Mode		



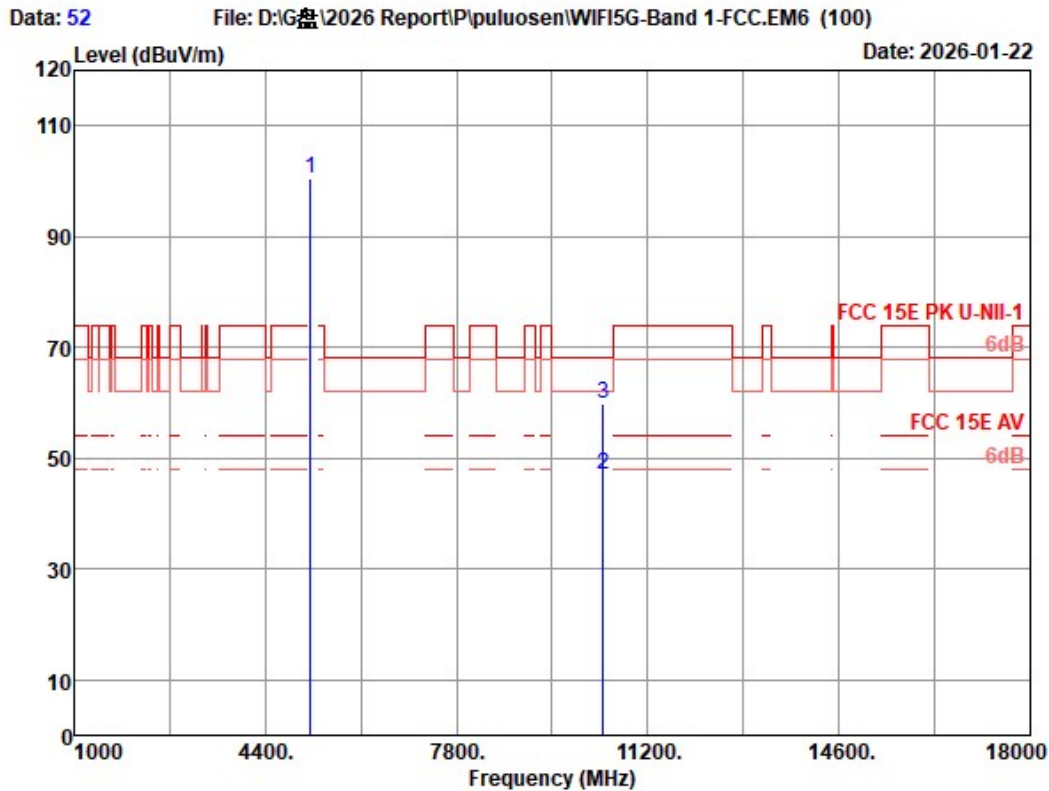
Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1 Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI5G 11a 5200MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	5200.000	33.20	1.00	31.36	106.61	109.45	-----	-----	Peak
2	10400.000	37.90	1.16	32.12	40.40	47.34	-----	-----	Average
3	10400.000	37.90	1.16	32.12	53.40	60.34	68.20	7.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



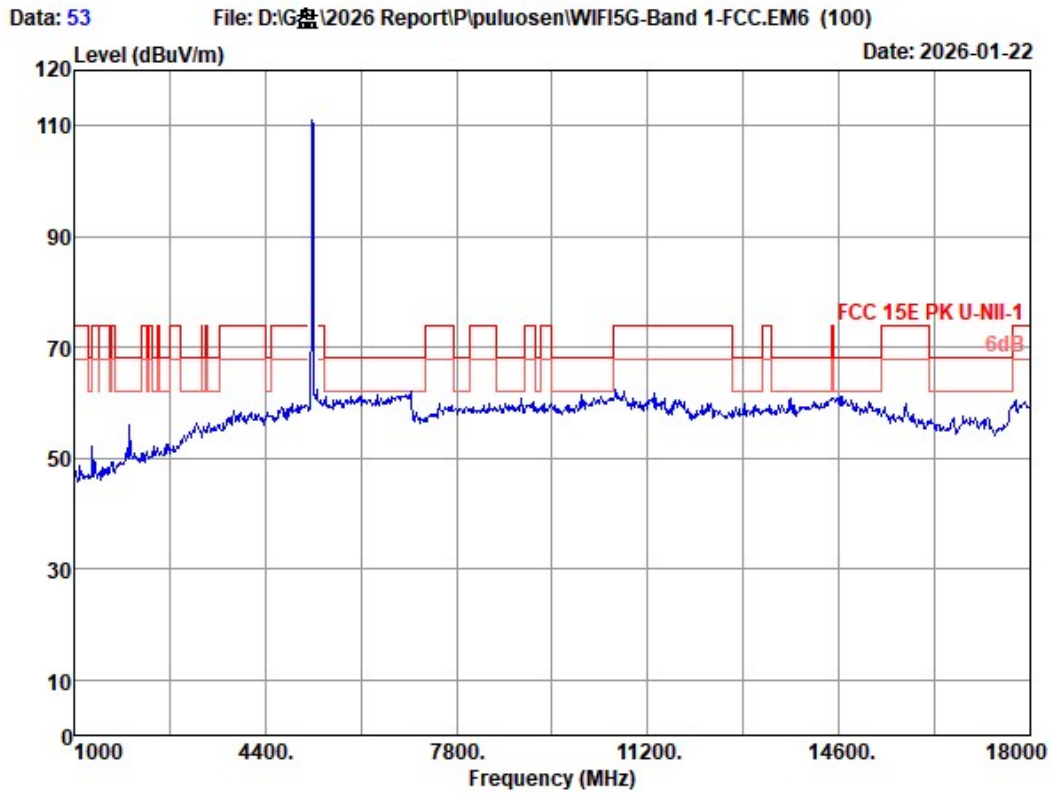
Site no.	: 3m Chamber	Data no.	: 51
Dis. / Ant.	: 3m 2025-3115-4580	Ant. pol.	: VERTICAL
Limit	: FCC 15E PK U-NII-1	Engineer	: Epoch
Env. / Ins.	: 23.2°C/52.6%		
Test Mode	: WIFI5G 11a 5200MHz TX Mode		



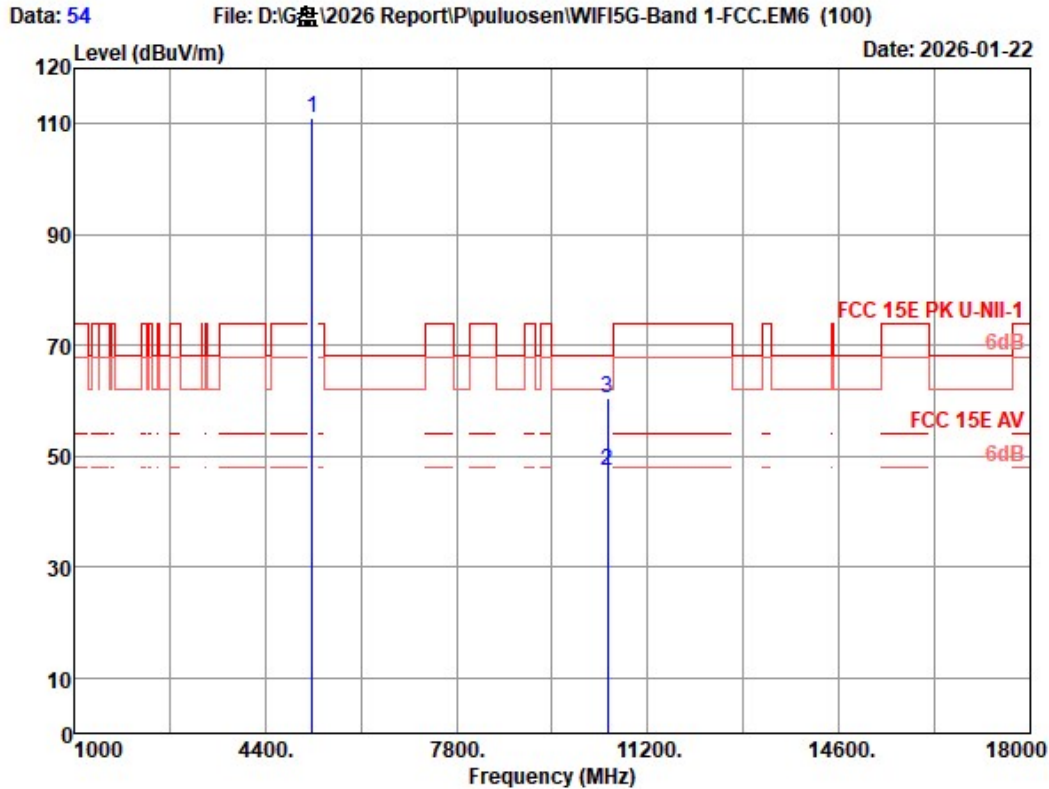
Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1 Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI5G 11a 5200MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	5200.000	33.20	1.00	31.36	97.69	100.53	-----	-----	Peak
2	10400.000	37.90	1.16	32.12	40.05	46.99	-----	-----	Average
3	10400.000	37.90	1.16	32.12	53.05	59.99	68.20	8.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



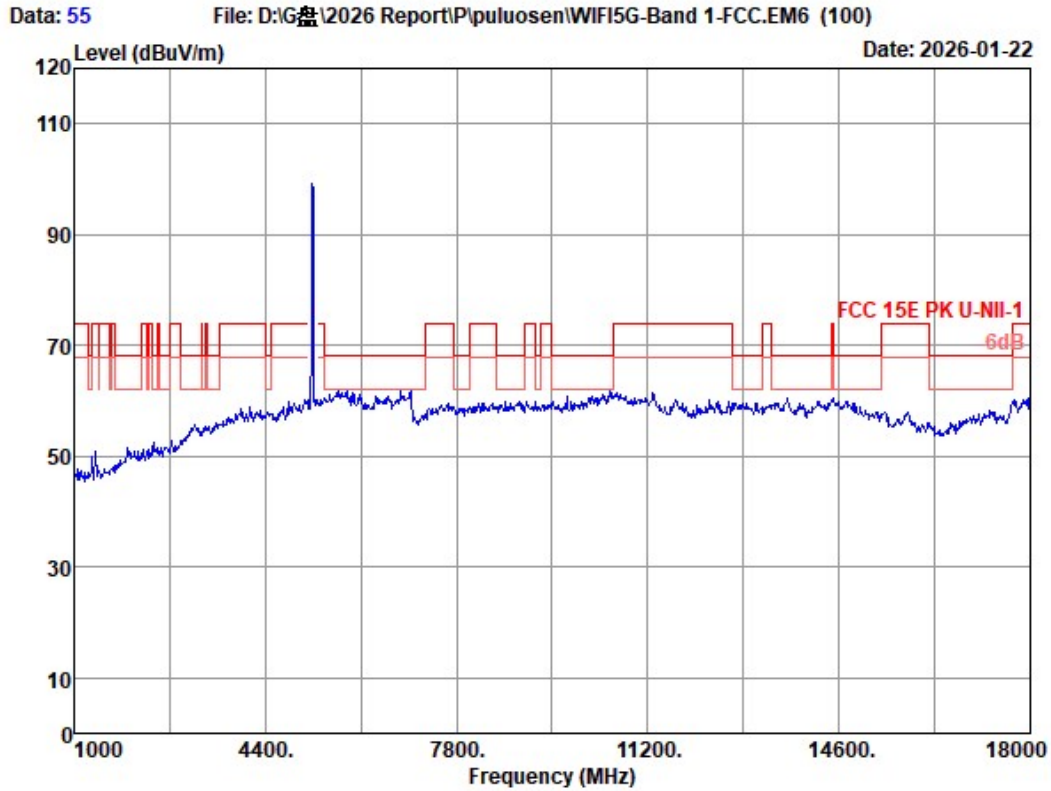
Site no.	: 3m Chamber	Data no.	: 53
Dis. / Ant.	: 3m 2025-3115-4580	Ant. pol.	: HORIZONTAL
Limit	: FCC 15E PK U-NII-1	Engineer	: Epoch
Env. / Ins.	: 23.2°C/52.6%		
Test Mode	: WIFI5G 11a 5240MHz TX Mode		



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2025-3115-4580 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1 Engineer : Epoch
 Env. / Ins. : 23.2°C/52.6%
 Test Mode : WIFI5G 11a 5240MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin Limits (dB)	Remark
1	5240.000	33.60	1.00	31.35	107.63	110.88	-----	-----	Peak
2	10480.000	37.98	1.15	32.02	40.23	47.34	-----	-----	Average
3	10480.000	37.98	1.15	32.02	53.23	60.34	68.20	7.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 -Amp factor(peak)
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no.	: 3m Chamber	Data no.	: 55
Dis. / Ant.	: 3m 2025-3115-4580	Ant. pol.	: VERTICAL
Limit	: FCC 15E PK U-NII-1	Engineer	: Epoch
Env. / Ins.	: 23.2°C/52.6%		
Test Mode	: WIFI5G 11a 5240MHz TX Mode		