

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 1 of 45

Applicant : PETKIT Network Technology (Shanghai) Co., Ltd.
Address of Applicant : Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai, China

Product Name : PETKIT PUROBOT CRYSTAL DUO Lite
SELF-CLEANING CAT LITTER BOX

Brand Name : PETKIT

Model Name : P9907

Sample Acquisition Method : Sent by Client

Sample No. : E26040021-01#02
E26040021-01#03

FCC ID : 2A72N-P9907

Standards : FCC CFR47 Part 15.407, Subpart E

Date of Receipt : 2026-04-09

Date of Test : 2026-04-11~ 2026-05-12

Date of Issue : 2026-05-13

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:



(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Echo Mu)

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 2 of 45

Contents

1	GENERAL INFORMATION	3
1.1	TESTING LABORATORY	3
1.2	DETAILS OF APPLICATION	3
1.3	DETAILS OF EUT	3
1.4	TEST METHODOLOGY.....	4
1.5	TEST SUMMARY.....	5
2	TEST CONDITION	6
2.1	ENVIRONMENTAL CONDITIONS	6
2.2	EQUIPMENT LIST	6
2.3	MEASUREMENT UNCERTAINTY.....	7
3	TEST SET-UP AND OPERATION MODES	8
3.1	DETAILS OF TEST MODE	8
3.2	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT.....	8
3.3	SUPPORT SOFTWARE.....	8
3.4	TEST SETUP DIAGRAM	9
4	TEST RESULTS	11
4.1	TRANSMITTER REQUIREMENT & TEST SUITES	11
4.1.1	<i>Antenna Requirement.....</i>	<i>11</i>
4.1.2	<i>Maximum Conducted Output Power</i>	<i>12</i>
4.1.3	<i>26dB Bandwidth and 99% Bandwidth.....</i>	<i>13</i>
4.1.4	<i>6dB Bandwidth and 99% Bandwidth.....</i>	<i>17</i>
4.1.5	<i>Maximum Conducted Output Power Spectral Density</i>	<i>24</i>
4.1.6	<i>Conducted Spurious Emission</i>	<i>25</i>
4.1.7	<i>Radiated Emission</i>	<i>26</i>
4.1.8	<i>Band Edge (Restricted-band band-edge).....</i>	<i>27</i>
4.1.9	<i>Frequency Stability</i>	<i>28</i>
4.2	MAINS EMISSIONS	30
4.2.1	<i>Conducted Emission on AC Mains.....</i>	<i>30</i>
5	APPENDIXES	33
5.1	EXTERNAL PHOTO OF THE SAMPLE	33
5.2	INTERNAL PHOTO OF THE SAMPLE	37
5.3	SET-UP FOR CONDUCTED EMISSIONS ON AC MAINS	44
5.4	SET-UP FOR CONDUCTED RF TEST AT ANTENNA PORT	44
5.5	SET-UP FOR SPURIOUS EMISSIONS BELOW 1GHZ.....	45
5.6	SET-UP FOR SPURIOUS EMISSIONS ABOVE 1GHZ.....	45

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 3 of 45

1 General Information

1.1 Testing Laboratory

Company Name	Shanghai Ingeer Testing Technology Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999

1.2 Details of Application

Applicant Company Name	PETKIT Network Technology (Shanghai) Co., Ltd.
Applicant Company Address	Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai, China
Contact Person	TingHe
Telephone	+86 13916991059
Email	ting.he@petkit.com
Manufacturer Company Name	Dongguan Zhihang Electronic Technology Co., LTD.
Manufacturer Company Address	Room 701, Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City,Guangdong Province, China.
Factory Company Name	Dongguan Zhihang Electronic Technology Co., LTD.
Factory Company Address	Room 701, Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City,Guangdong Province, China.

1.3 Details of EUT

Product Name	PETKIT PUROBOT CRYSTAL DUO Lite SELF-CLEANING CAT LITTER BOX
Brand Name	PETKIT
Test Model Name	P9907
FCC ID	2A72N-P9907
Mode of Operation	WLAN 802.11a/n(HT20)
Operation Frequency	Band I:5180MHz~5240MHz; Band IV: 5745MHz ~ 5825MHz
Modulation Type	OFDM(BPSK/QPSK/16-QAM/64-QAM)
Channel Bandwidth	802.11a: 20MHz 802.11n: 20MHz
Antenna Type	Internal Antenna
Antenna Gain	3.42dBi
Extreme Temperature Range	0°C~ +40°C
Test Voltage	DC 12V 2A Supply by AC Adapter (Model:GQ24-120200-AX)
Extreme Voltage	Low Voltage: AC 100V High Voltage: AC 240V
Product Type	Mobile for FCC standard
WIFI Hardware Version	V1.0

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 4 of 45

WIFI Software Version	V1.107
RF power setting in TEST SW	Band I: SecureCRT Version 7.0.4 and rtwpriv command_Power setting_ rtwpriv wlan0 mp_txpower dbm=14 Band IV: SecureCRT Version 7.0.4 and rtwpriv command_Power setting_ rtwpriv wlan0 mp_txpower dbm=13

Note:

1. The above information was declared by the manufacture.
2. The EUT is designed as master device.
3. The EUT do not support TPC.
4. For more details, please refer to the User's manual of the EUT.

Channel List

Frequency Band	Channel Number	Frequency
Band I: 5150MHz ~ 5250MHz	36	5180 MHz
	40	5200 MHz
	44	5220 MHz
	48	5240 MHz
Band IV: 5725MHz ~ 5850MHz	149	5745 MHz
	153	5765 MHz
	157	5785 MHz
	161	5805 MHz
	165	5825 MHz

Note: For 20MHz bandwidth system use Channel 36,40,44,48,149,153,157,161,165

1.4 Test Methodology

47 CFR Part 15, Subpart E	Subpart E—Unlicensed National Information Infrastructure Devices
KDB Publication 789033 D02 v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
ANSI C63.10-2020+Cor.1-2023	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 5 of 45

1.5 Test Summary

Test Item	FCC Rules	Result
Antenna Requirement	FCC Part 15.407(a), 15.203	PASS
Maximum Conducted Output Power	FCC Part 15.407(a)	PASS
26dB Bandwidth and 99% Bandwidth	FCC Part 15.407(a)	PASS
6dB Bandwidth	FCC Part 15.407(e)	PASS
Maximum Conducted Output Power Spectral Density	FCC Part 15.407(a)	PASS
Conducted Spurious Emission	FCC Part 15.407(b), 15.209	PASS
Radiated Emission	FCC Part 15.407(b), 15.209, 15.205	PASS
Band Edge (Restricted-band band-edge)	FCC Part 15.407(b), 15.205, 15.209	PASS
Frequency Stability	FCC Part 15.407(g)	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	PASS

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 6 of 45

2 Test Condition

2.1 Environmental conditions

Temperature (°C)	15-35
Humidity (%RH)	30-60
Barometric Pressure (mbar)	860-1060

Note: Actual values will be recorded during the test.

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020A	MY54101709	2025-06-30	2026-06-29
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2025-06-10	2026-06-09
Signal Generator	Rohde & Schwarz	SMR27	100184	2025-06-30	2026-06-29
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2025-06-09	2026-06-08
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2025-06-09	2026-06-08
USB Wideband Power Sensor	Keysight	U2021XA	MY57200011	2025-11-10	2026-11-09
USB Wideband Power Sensor	Keysight	U2021XA	MY56090008	2025-11-10	2026-11-09
V-network	SCHWARZBECK	NSLK 8127	8127-902	2025-06-09	2026-06-08
Attenuator	SCHWARZBECK	VTSD 9561-FN	/	2025-06-09	2026-06-08
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2025-03-24	2027-03-23
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2025-06-22	2027-06-21
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2025-06-23	2027-06-22
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2025-06-22	2027-06-21
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2025-06-09	2026-06-08
Temperature Box	ESPEC	ECT-2	055239A	2025-11-11	2027-11-10
DC Power Supply	ITECH	IT6952A	N/A	2025-06-30	2026-06-29
EMC chamber 9*6*6(L*W*H)	CHANGNING	966	N/A	2025-06-10	2028-06-09
Shielded Enclosure 8*5*4(L*W*H)	CHANGNING	854	N/A	2025-06-10	2028-06-09
Test Software	BL	BL410_E	Version:1.0.0.122	N/A	N/A
Test Software	BL	BL410_R	Version:3.5.2.642	N/A	N/A

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 7 of 45

2.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI. The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95.45%.

Parameter		Uncertainty
Antenna Port Conducted Emission		$\pm 1.04\text{dB}$
Radiated Emission	< 1GHz	$\pm 5.00\text{dB}$
	> 1GHz	$\pm 5.46\text{dB}$
Conducted Emission on AC Mains	150KHz-30MHz	$\pm 3.36\text{dB}$
Occupied Channel Bandwidth		$\pm 39.26\text{KHz}$
Maximum Conducted Output Power		$\pm 1.06\text{dB}$
Maximum Conducted Output Power Spectral Density		$\pm 1.12\text{dB}$
Frequency Stability		$\pm 0.38\text{ppm}$

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 8 of 45

3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software to control EUT work in continuous transmitting and receiving mode. Select test channel as below:
For 802.11a/n(HT20)

Band I (5150 – 5250 MHz)		Band IV (5725 – 5850 MHz)	
Channel	Frequency	Channel	Frequency
The lowest channel(CH36)	5180MHz	The lowest channel(CH149)	5745MHz
The middle channel(CH44)	5220MHz	The middle channel(CH157)	5785MHz
The highest channel(CH48)	5240MHz	The highest channel(CH165)	5825MHz

Through Pre-scan under all rate at lowest channel, the data rate as below table described is the worst case, so we choose these data rate for test.

Type	Data rate
802.11a	6Mbps
802.11n(HT20)	MCS0

The basic operation modes are:

- A. On
 - 1. WLAN mode
 - a. Transmitting
 - b. Receiving
- B. Standby
- C. Off

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model Name	Serial No.
Switching Adapter	N/A	GQ24-120200-AX	Input: AC 100-240V 50/60Hz 1.0A Max; Output: DC 12 2A 24W
Laptop 1	HP	HP ZHAN 66 Pro G1	5CD7438R1J
Laptop 2	Lenovo	TP00083A	PF-0PRDGN
USB Cable	N/A	N/A	1.00m Unshielded

3.3 Support Software

Description	Manufacturer	Software Name
Software	N/A	SecureCRT Version 7.0.4 and rtwpriv command

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 9 of 45

3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test Below 30MHz

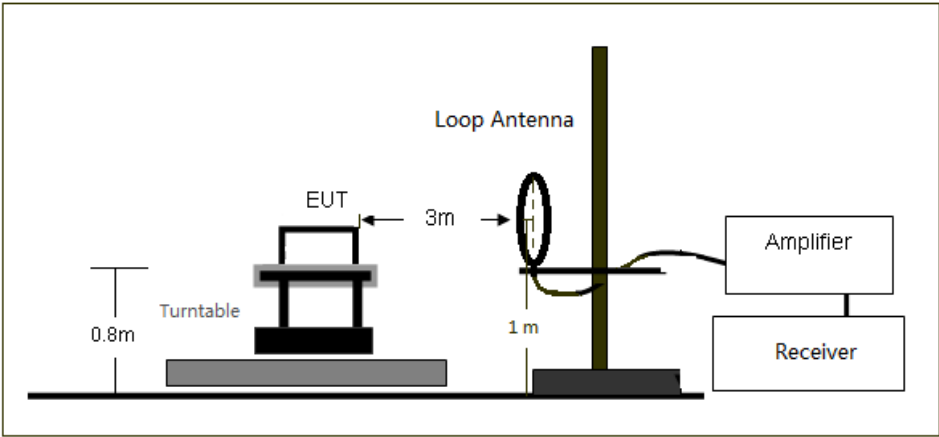


Diagram of Measurement Configuration for Radiation Test 30MHz-1000MHz (Floor-standing)

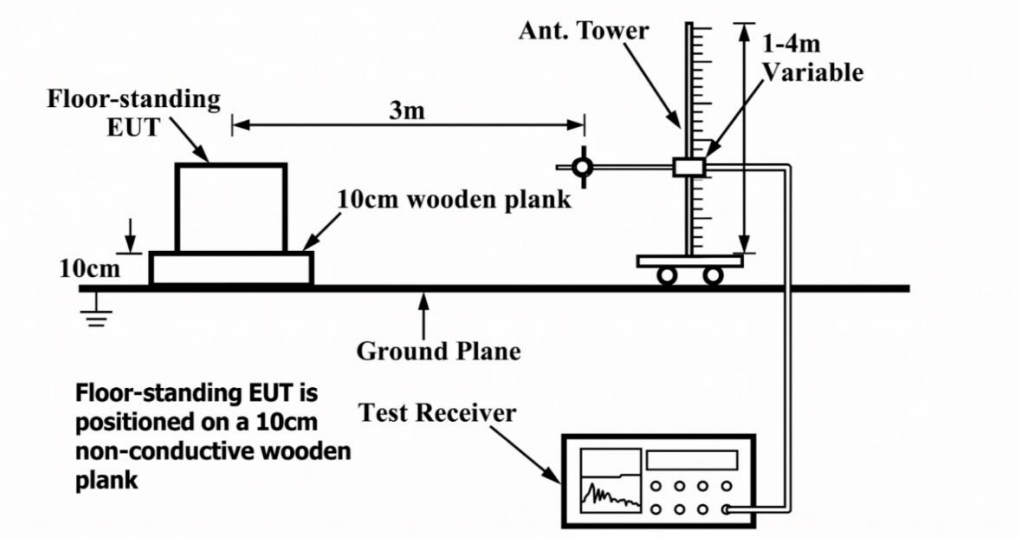
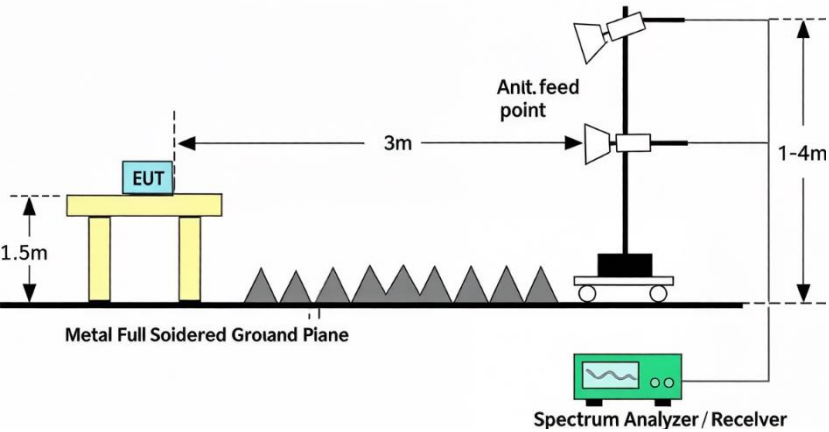


Diagram of Measurement Configuration for Radiation Test above 1000MHz



TEST REPORT

Diagram of Measurement Configuration for Conduction Test (Floor-standing)

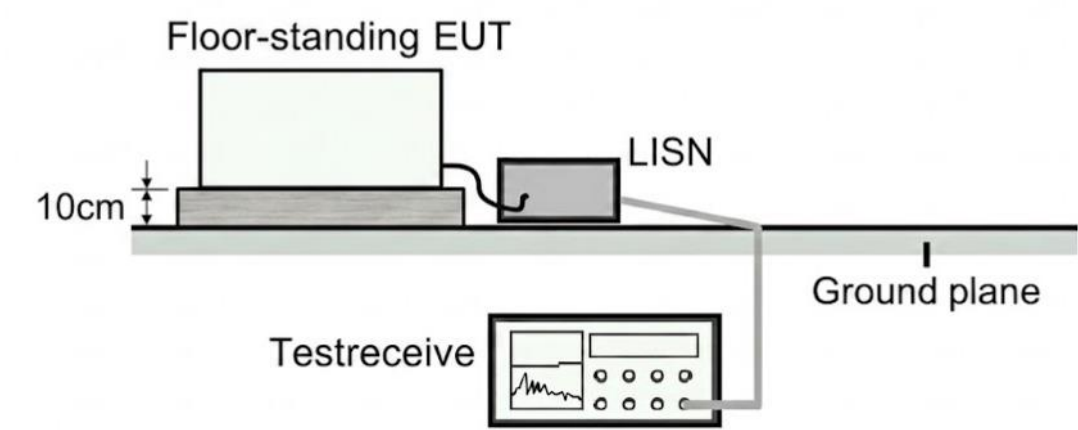


Diagram of Measurement Configuration for Transmitter Test

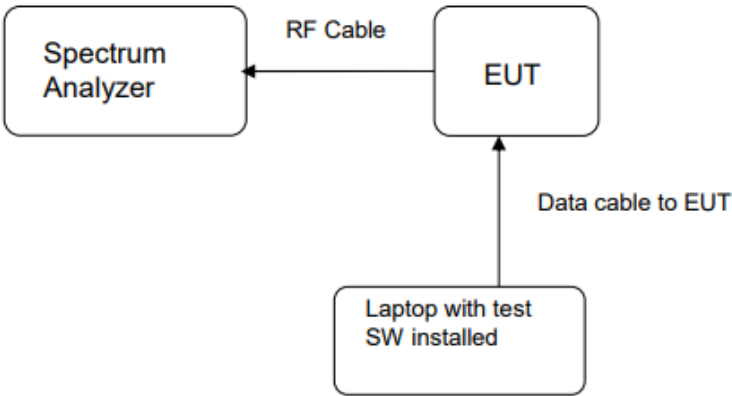
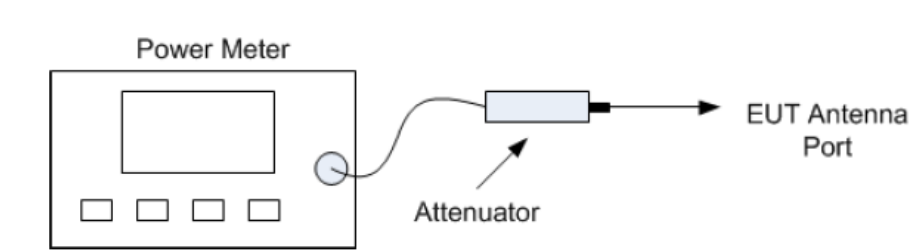


Diagram of Measurement Equipment Configuration for conducted output power setup



TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 11 of 45

4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard	:	FCC Part 15.407(a), 15.203
Requirement	:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. In addition, If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 3.42dBi. The antenna is an Internal antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 12 of 45

4.1.2 Maximum Conducted Output Power

RESULT:

PASS

Test standard : FCC Part 15.407(a)
Requirement : ANSI C63.10 clause 12.4.3.1, KDB 789033
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 19.9°C
Relative humidity : 56.0%

Table 1: Maximum Conducted Output Power for Band I (5180MHz~5240MHz)

Test Mode	Duty Cycle (%)	Test Channel (MHz)	Maximum Conducted Output Power		Applicable Limit
			(dBm)	(mW)	
802.11a	98.21	5180	13.77	23.82	250mW (23.98dBm)
		5220	14.28	26.79	
		5240	14.47	27.99	
802.11n(HT20)	98.10	5180	13.66	23.23	
		5220	14.17	26.12	
		5240	14.31	26.98	

Table 2: Maximum Conducted Output Power for Band IV (5745MHz~5825MHz)

Test Mode	Duty Cycle (%)	Test Channel (MHz)	Maximum Conducted Output Power		Applicable Limit
			(dBm)	(mW)	
802.11a	98.86	5745	14.39	27.48	1W(30dBm)
		5785	14.45	27.86	
		5825	14.18	26.18	
802.11n(HT20)	98.10	5745	14.31	26.98	
		5785	14.43	27.73	
		5825	14.17	26.12	

Notes: Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 13 of 45

4.1.3 26dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.407(a)

Requirement : ANSI C63.10 clause 12.5.2, KDB 789033

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 23.5°C

Relative humidity : 36.0%

Table 3: 26dB Bandwidth and 99% Bandwidth for Band I (5180MHz~5240 MHz)

Test Mode	Test Channel (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11a	5180	19.90	16.337
	5220	19.96	16.335
	5240	19.91	16.338
802.11n(HT20)	5180	20.59	17.457
	5220	20.77	17.477
	5240	20.62	17.469

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 14 of 45

Figure 1: 802.11a, 5180MHz
Test Plot of -26dB Bandwidth and 99% Bandwidth

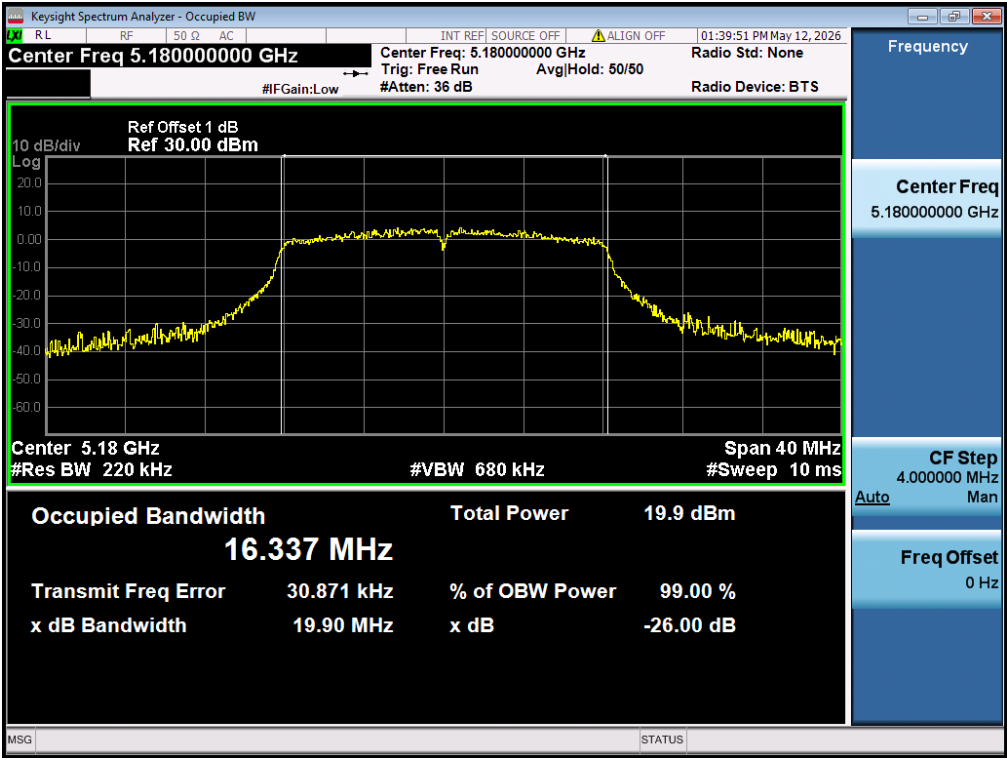
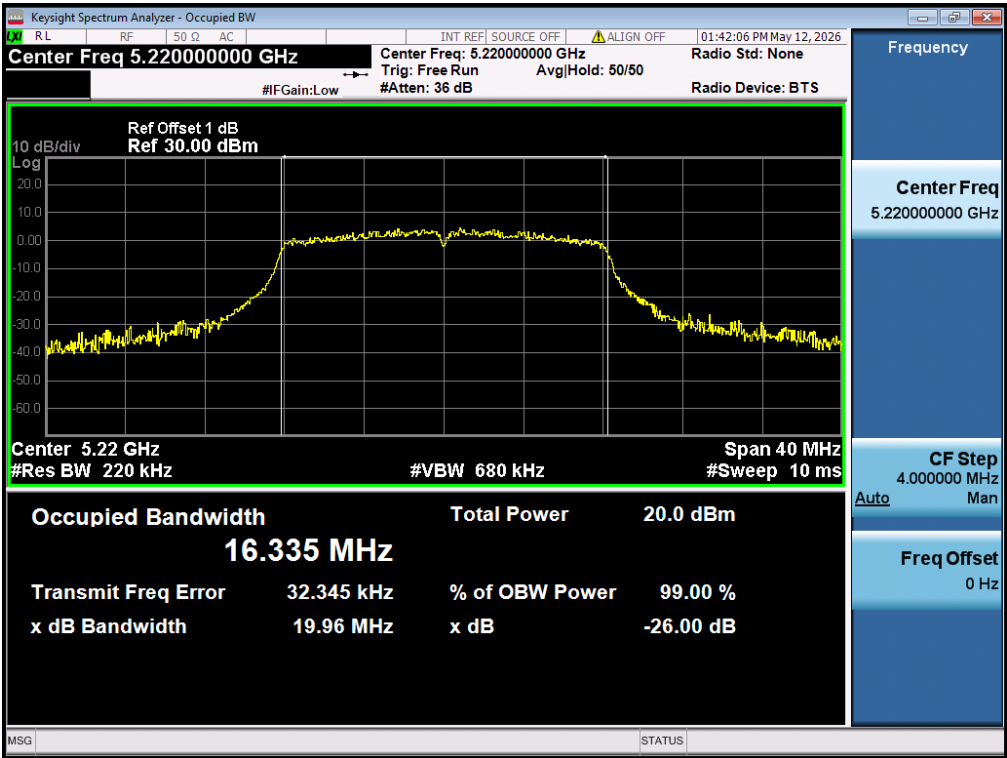


Figure 2: 802.11a, 5220MHz
Test Plot of -26dB Bandwidth and 99% Bandwidth



TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 15 of 45

Figure 3: 802.11a, 5240MHz

Test Plot of -26dB Bandwidth and 99% Bandwidth

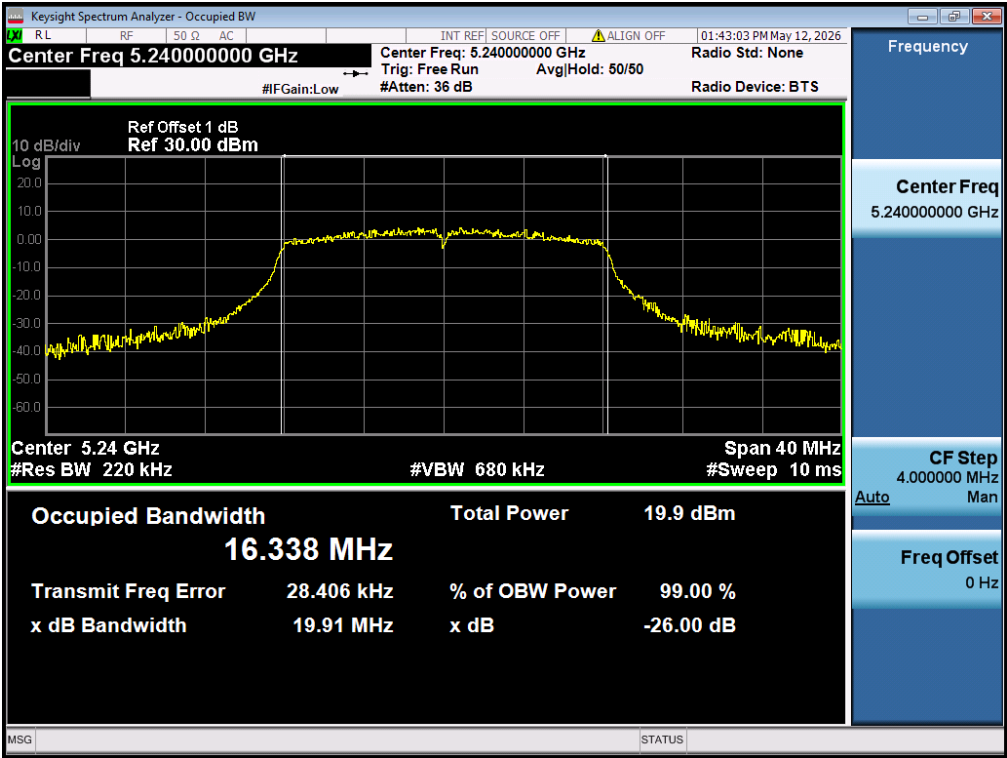
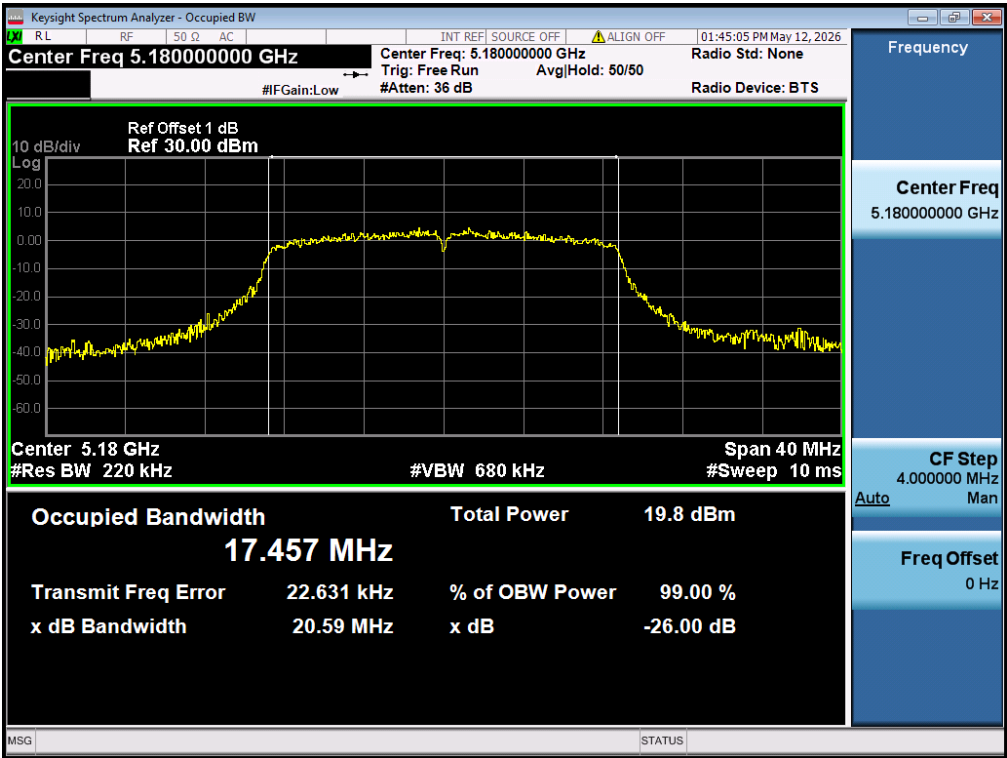


Figure 4: 802.11n(HT20), 5180MHz

Test Plot of -26dB Bandwidth and 99% Bandwidth



TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 16 of 45

Figure 5: 802.11n(HT20), 5220MHz
Test Plot of -26dB Bandwidth and 99% Bandwidth

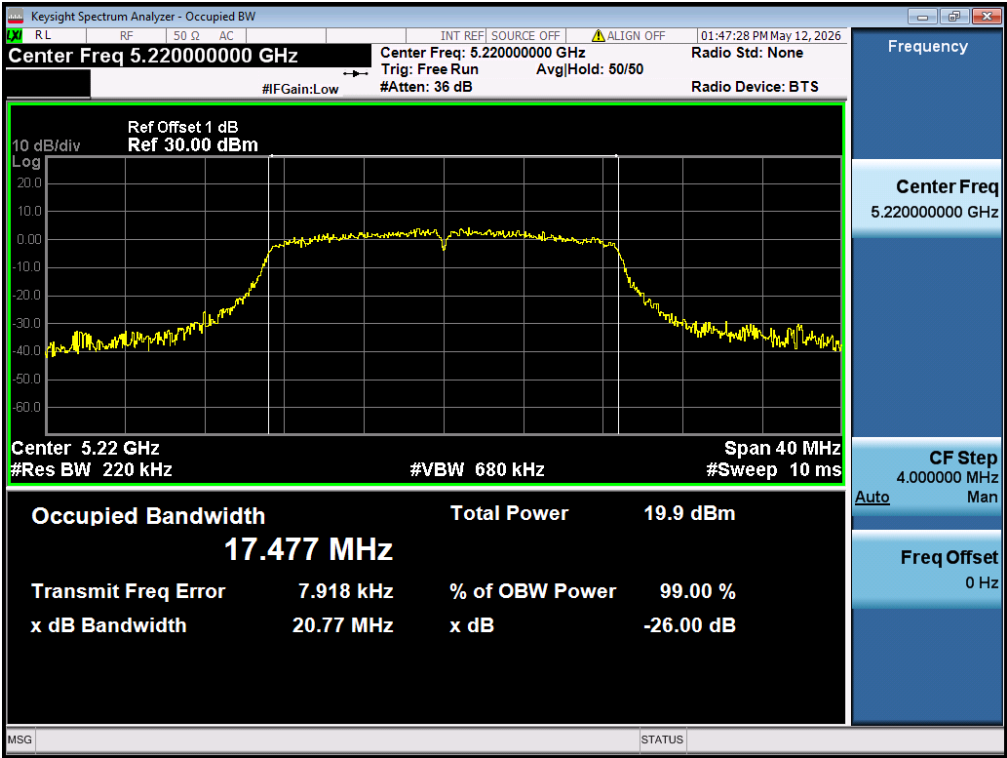
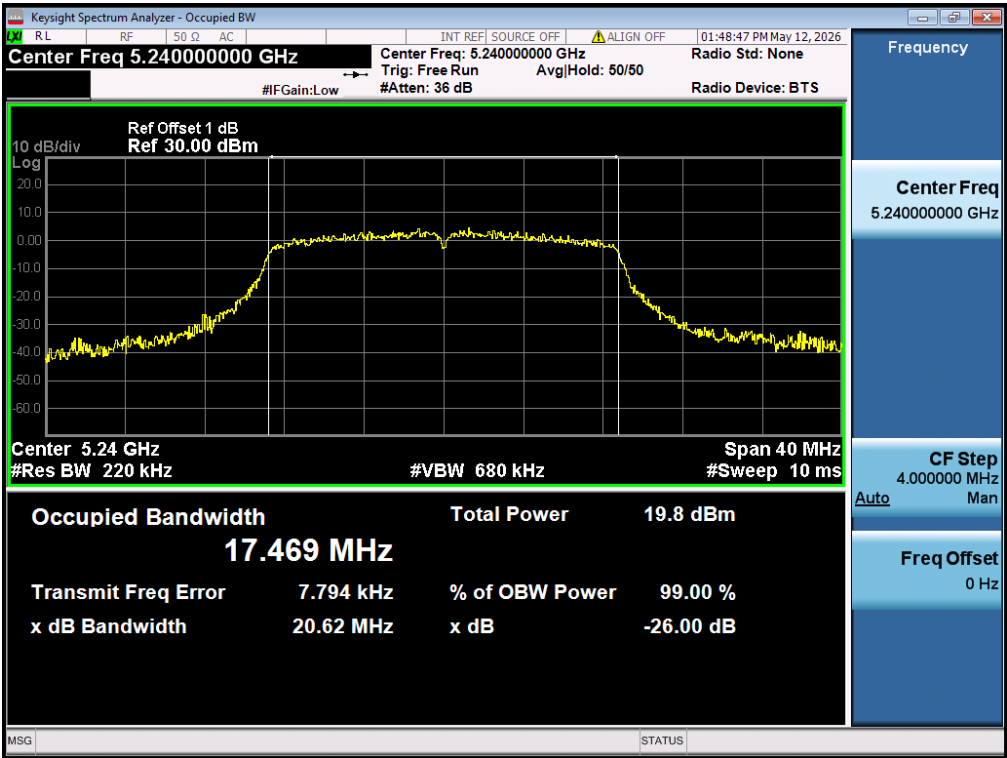


Figure 6: 802.11n(HT20), 5240MHz
Test Plot of -26dB Bandwidth and 99% Bandwidth



TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 17 of 45

4.1.4 6dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.407(e)

Requirement : ANSI C63.10 clause 12.5.1, KDB 789033

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 19.9-23.5°C

Relative humidity : 36.0-56.0%

Table 4: 6dB Bandwidth and 99% Occupied Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth Applicable Limit (MHz)
802.11a	5745	15.37	16.327	>0.5
	5785	13.94	16.331	
	5825	13.68	16.330	
802.11n(HT20)	5745	13.87	17.469	
	5785	15.07	17.469	
	5825	15.43	17.486	

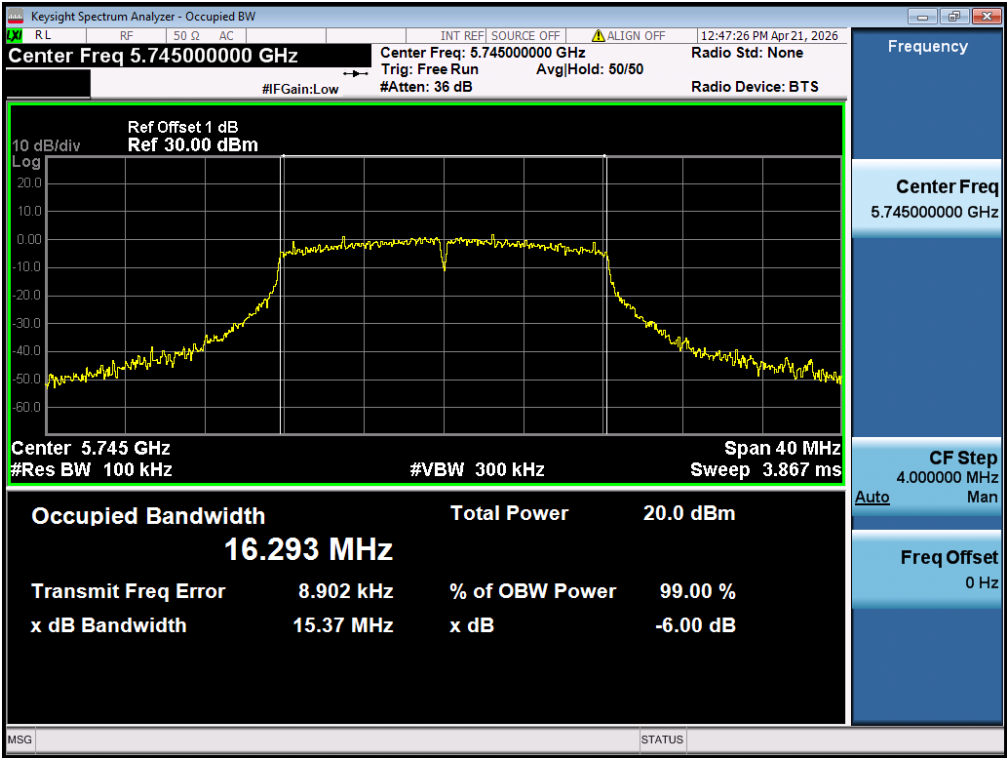
TEST REPORT

Report No.: SHE26040021-02DE

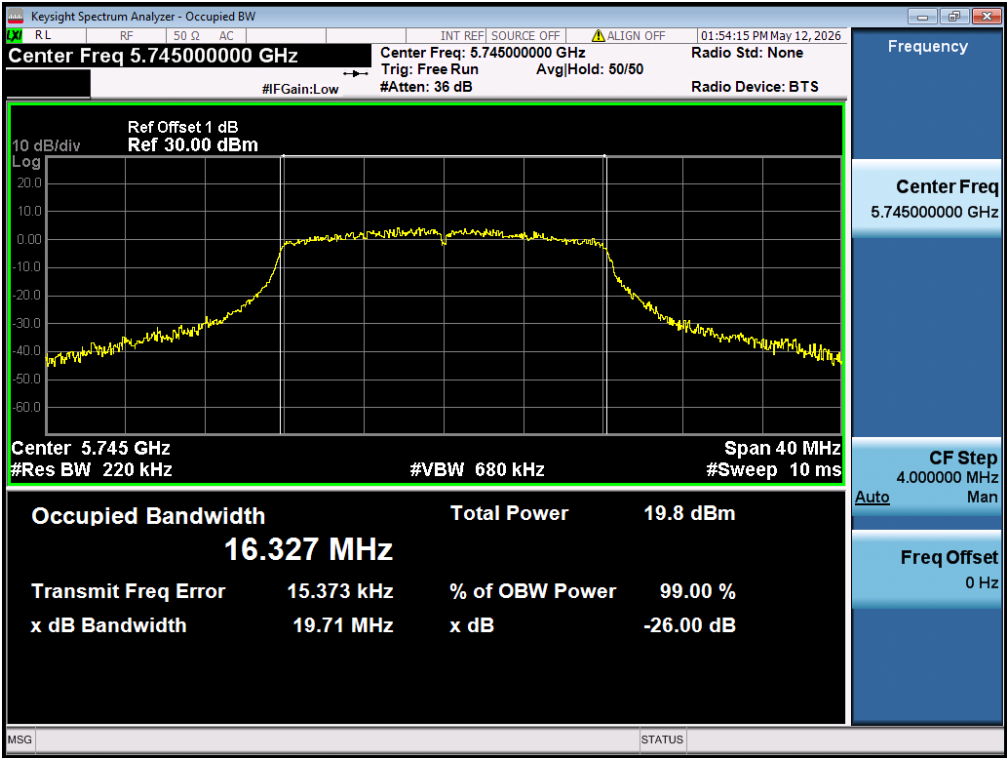
Date: 2026-05-13

Page 18 of 45

Figure 7: 802.11a, 5745MHz
Test Plot of -6dB Bandwidth



Test Plot of 99% Occupied Bandwidth



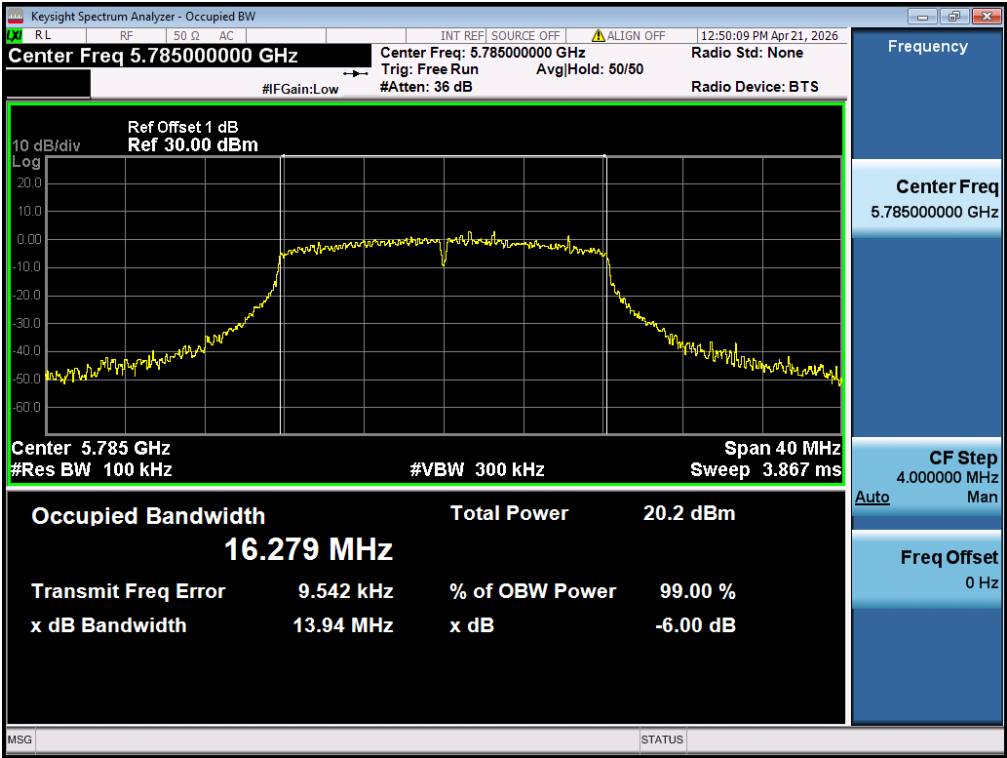
TEST REPORT

Report No.: SHE26040021-02DE

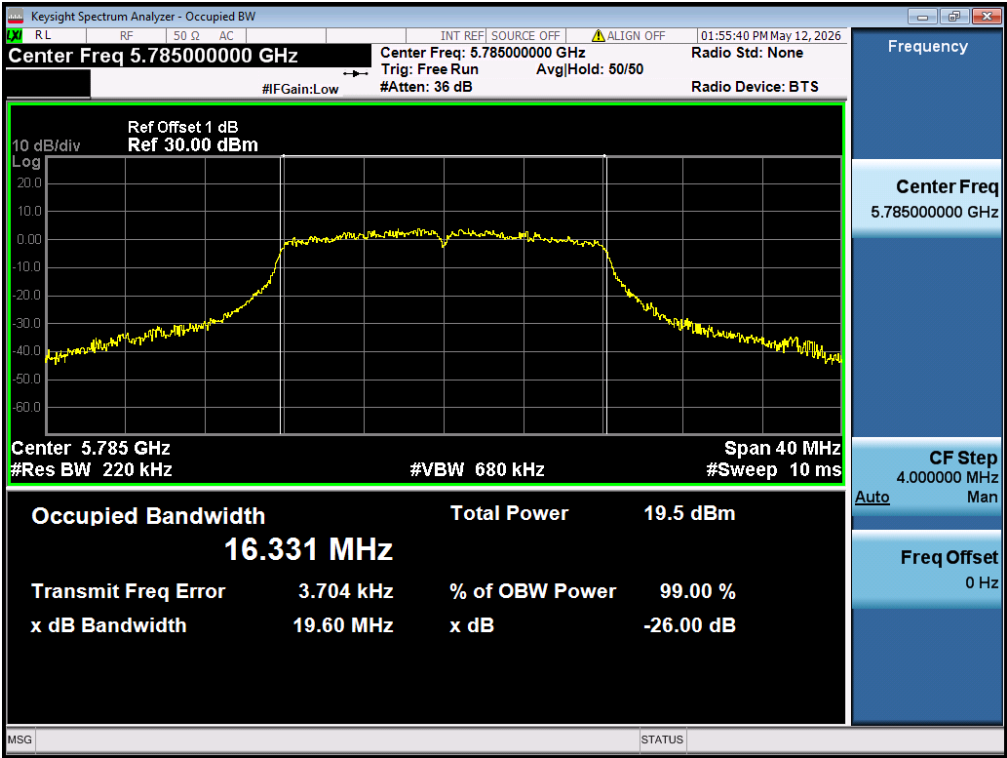
Date: 2026-05-13

Page 19 of 45

Figure 8: 802.11a, 5785MHz
Test Plot of -6dB Bandwidth



Test Plot of 99% Occupied Bandwidth



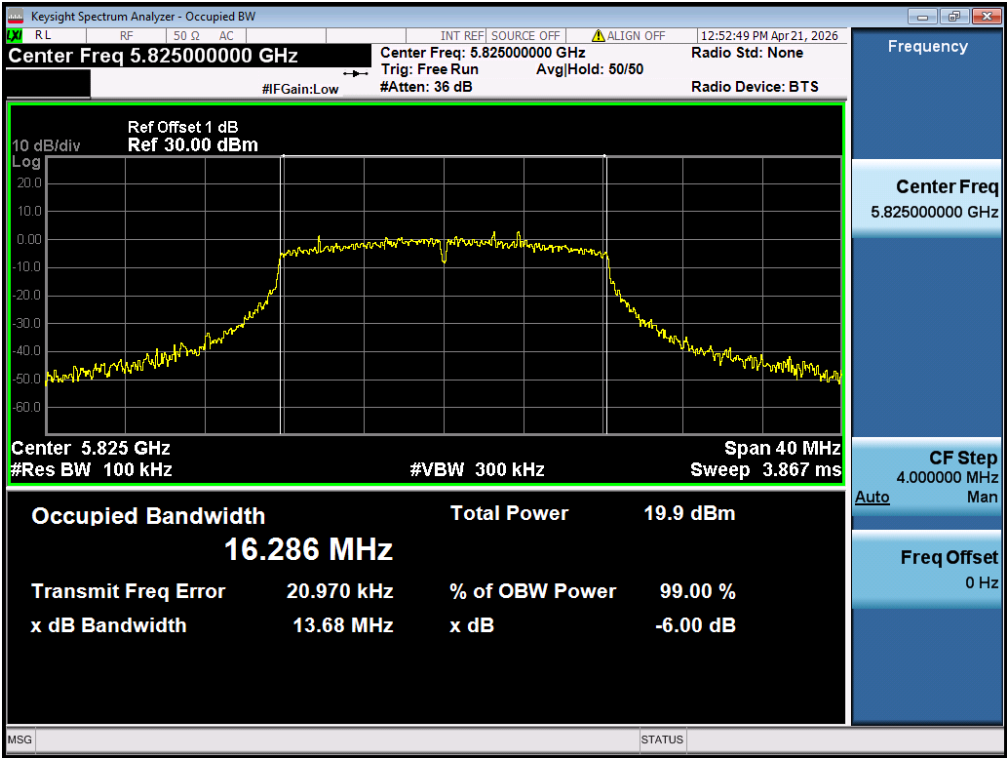
TEST REPORT

Report No.: SHE26040021-02DE

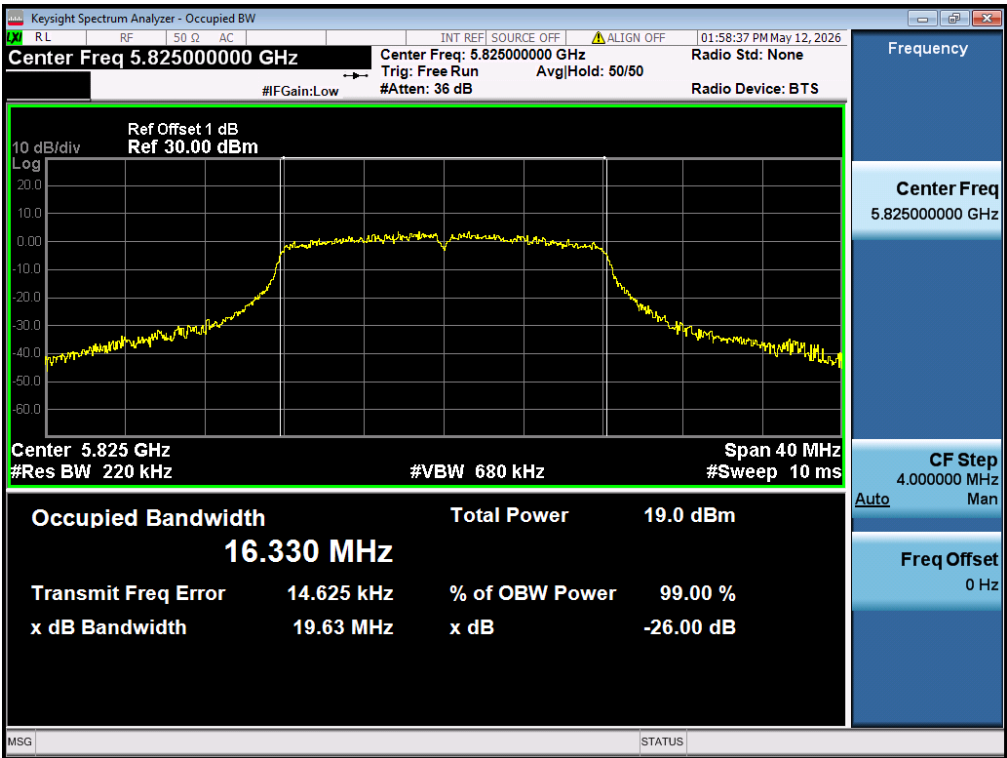
Date: 2026-05-13

Page 20 of 45

Figure 9: 802.11a, 5825MHz
Test Plot of -6dB Bandwidth



Test Plot of 99% Occupied Bandwidth



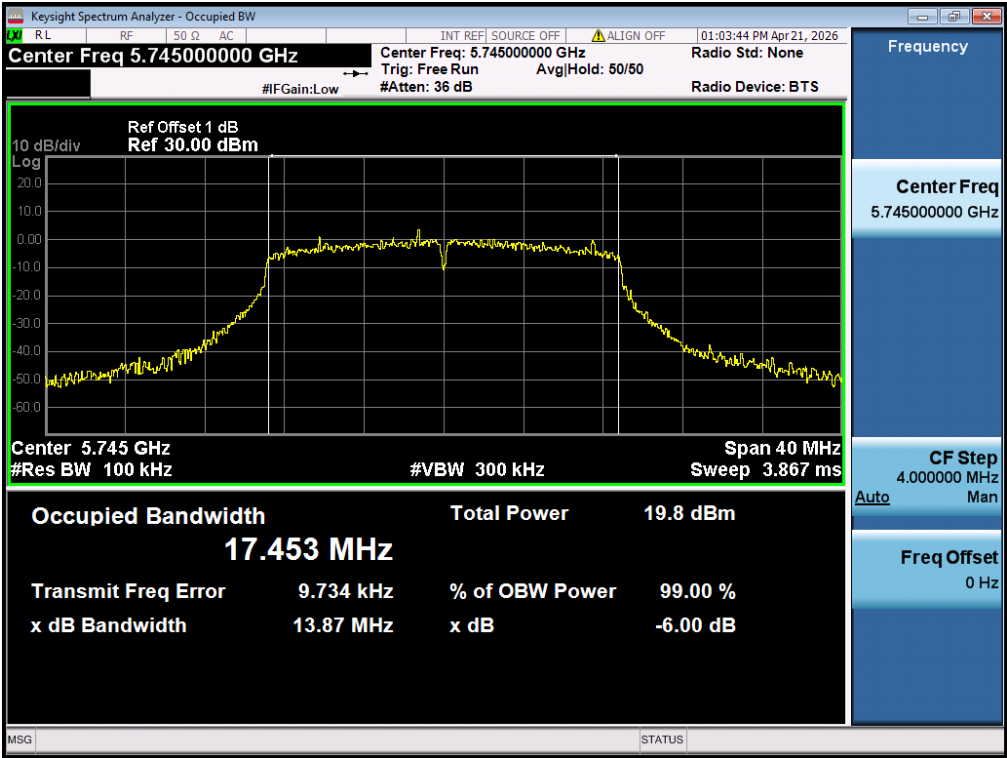
TEST REPORT

Report No.: SHE26040021-02DE

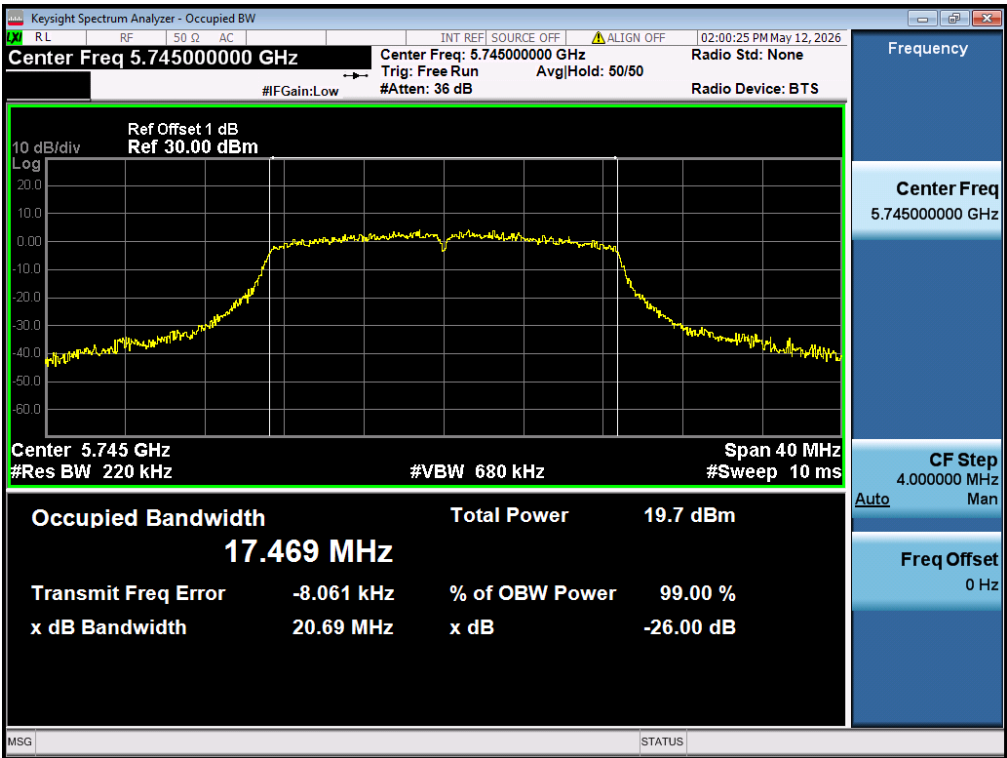
Date: 2026-05-13

Page 21 of 45

Figure 10: 802.11n(HT20), 5745MHz
Test Plot of -6dB Bandwidth



Test Plot of 99% Occupied Bandwidth



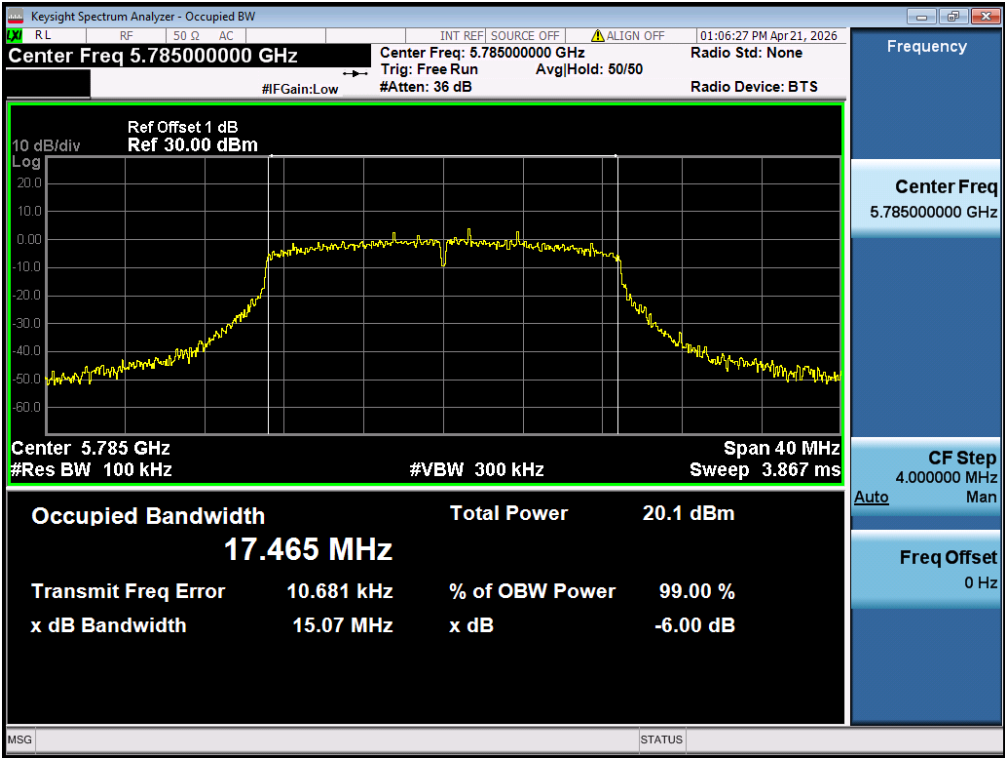
TEST REPORT

Report No.: SHE26040021-02DE

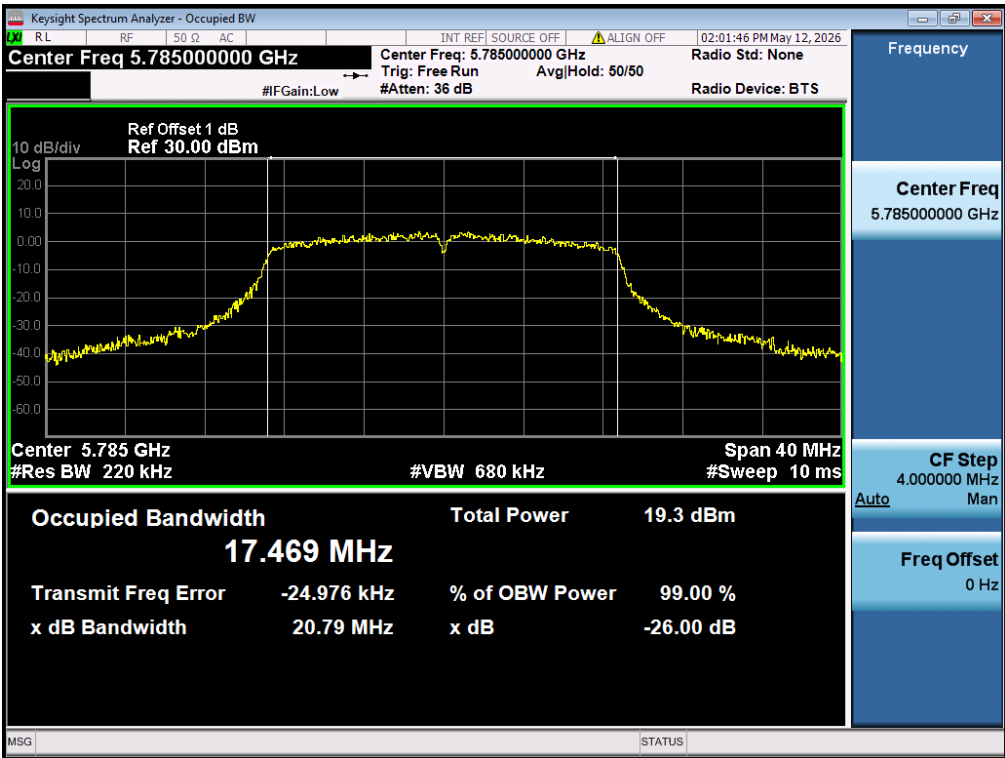
Date: 2026-05-13

Page 22 of 45

Figure 11: The plots of 6dB Bandwidth, 802.11n(HT20), 5785MHz
Test Plot of -6dB Bandwidth



Test Plot of 99% Occupied Bandwidth



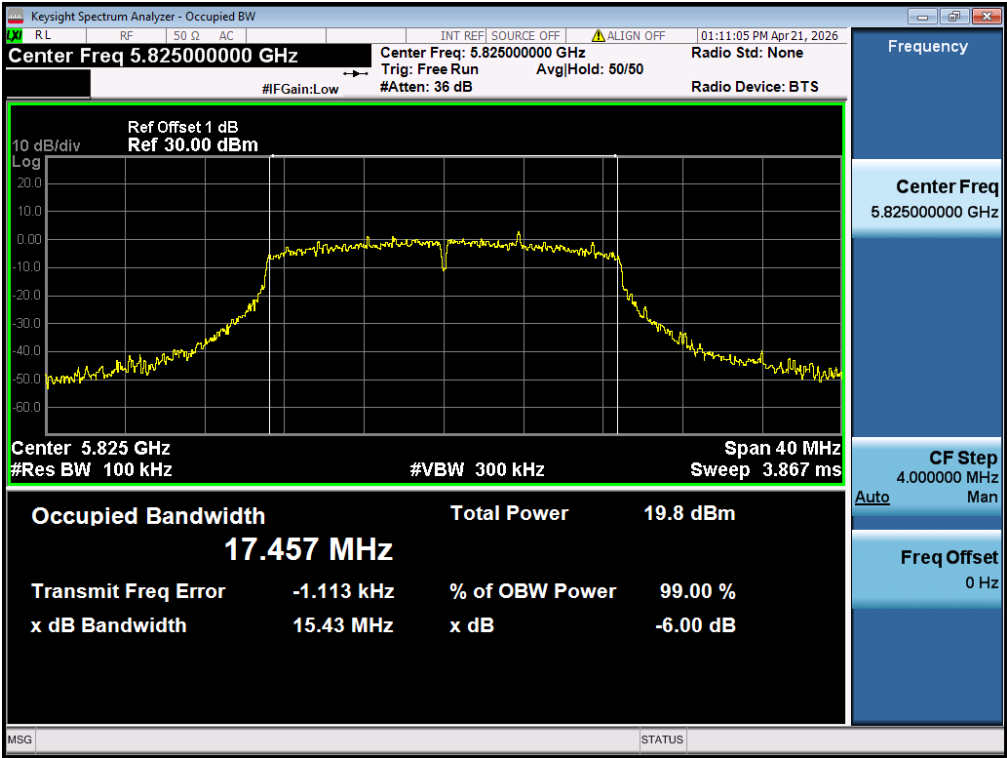
TEST REPORT

Report No.: SHE26040021-02DE

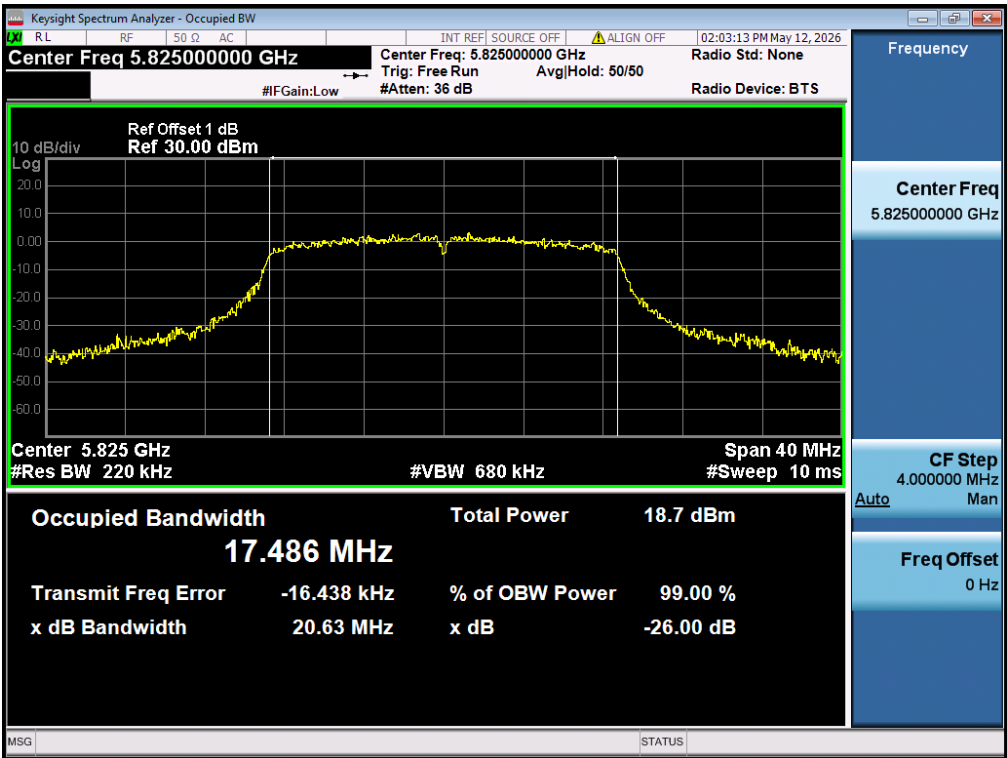
Date: 2026-05-13

Page 23 of 45

Figure 12: The plots of 6dB Bandwidth, 802.11n(HT20), 5825MHz
Test Plot of -6dB Bandwidth



Test Plot of 99% Occupied Bandwidth



TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 24 of 45

4.1.5 Maximum Conducted Output Power Spectral Density

RESULT:

PASS

Test standard : FCC Part 15.407(a)
Requirement : ANSI C63.10 clause 12.6(SA-2), KDB 789033
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 23.5°C
Relative humidity : 36.0%

Notes:

Test plots please refer to the annex document "SHE26040021-02DE DATA WIFI 5GHz- Maximum Conducted Output Power Spectral Density EXHIBIT A"

Table 5: Maximum Conducted Output Power Spectral Density for Band I (5180MHz~5240MHz)

Test Mode	Duty Cycle	Test Channel (MHz)	Maximum PSD (dBm/MHz)	Applicable Limit (dBm/MHz)
802.11a	98.21	5180	3.79	11
		5220	3.87	
		5240	3.67	
802.11n(HT20)	98.10	5180	3.32	
		5220	3.38	
		5240	3.27	

Table 6: Maximum Conducted Output Power Spectral Density for Band IV (5745MHz~5825MHz)

Test Mode	Duty Cycle	Test Channel (MHz)	Maximum PSD		Applicable Limit (dBm/500KHz)
			(dBm/510KHz)	(dBm/500KHz)	
802.11a	98.86	5745	0.63	0.54	30
		5785	0.42	0.33	
		5825	-0.02	-0.11	
802.11n(HT20)	98.10	5745	0.53	0.44	
		5785	0.05	-0.04	
		5825	-0.55	-0.64	

Notes:

1. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured PSD to compute the average PSD during the actual transmission times.
2. Total PSD(dBm/500KHz) = Total PSD(dBm/510KHz) + RBW Factor; RBW Factor = $10 * \log(500/510)$.

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 25 of 45

4.1.6 Conducted Spurious Emission

RESULT:

PASS

Test standard	: FCC Part 15.407(b), 15.209,
Requirement	: ANSI C63.10 clause 12.7.4, KDB 789033
Kind of test site	: Shielded room

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 19.9°C
Relative humidity	: 56.0%

Notes:

1. Test plots please refer to the annex document "SHE26040021-02DE DATA WIFI 5GHz-TX CSE EXHIBIT A".
2. The margin plus the antenna gain also meets the limit.

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 26 of 45

4.1.7 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.407(b), 15.209, 15.205
Requirement	: ANSI C63.10 clause 12.7.4, KDB 789033
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1.a
Ambient temperature	: 19.5-22.3°C
Relative humidity	: 50-52%

Notes:

Test plots please refer to the annex document "SHE26040021-02DE DATA WIFI 5GHz-TX EXHIBIT A"

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.
4. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Results.

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 27 of 45

4.1.8 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard	: FCC Part 15.407(b)
Requirement	: ANSI C63.10 clause 12.7.4.4, KDB 789033
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/High
Operation Mode	: A.1.a
Ambient temperature	: 19.5-22.3°C
Relative humidity	: 50-52%

Notes:

Test plots please refer to the annex document "SHE26040021-02DE DATA WIFI 5GHz-TX EXHIBIT A"

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.
2. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Results.

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 28 of 45

4.1.9 Frequency Stability

RESULT:

PASS

Test standard

: FCC Part 15.407(g)

Kind of test site

: Shielded room

Test setup

Test Channel

: Low/Middle/High

Operation Mode

: A.1.a

Ambient temperature

: 19.9°C

Relative humidity

: 56.0%

Table 7: Frequency Stability

Band I (5180MHz – 5240MHz):
Voltage vs. Frequency Stability (5180MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Temp (°C)	Voltage (V)			
25	AC 100V	5179.992550	1.44	±20
	AC 120V	5179.992200	1.51	
	AC 240V	5179.992500	1.45	

Temperature vs. Frequency Stability (5180MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Voltage (V)	Temp (°C)			
AC 120V	0	5179.992400	1.47	±20
	10	5179.992350	1.48	
	20	5179.991850	1.57	
	30	5179.991600	1.62	
	40	5179.991675	1.61	

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 29 of 45

Band IV (5745MHz – 5825MHz):
Voltage vs. Frequency Stability (5745MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Temp (°C)	Voltage (V)			
25	AC 100V	5744.992350	1.33	±20
	AC 120V	5744.992200	1.36	
	AC 240V	5744.991425	1.49	

Temperature vs. Frequency Stability (5745MHz)

Test Conditions		Frequency (MHz)	Max. Deviation (ppm)	Limit (ppm)
Voltage (V)	Temp (°C)			
AC 120V	0	5744.991700	1.44	±20
	10	5744.991250	1.52	
	20	5744.990450	1.66	
	30	5744.991800	1.43	
	40	5744.991350	1.51	

Note: The all configurations were tested respectively, but only the worst channel shown here.

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 30 of 45

4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard	: FCC Part 15.207
Requirement	: ANSI C63.10 clause 6.2
Kind of test site	: Shielded room

Test setup

Input Voltage	: DC 12V 2A supply by adapter (which received AC 120V, 60Hz)
Operation Mode	: A.1.a
Earthing	: Not Connected
Ambient temperature	: 22.2°C
Relative humidity	: 50.0%

For details refer to following test plot.

Notes:

1. The all configurations were tested respectively, but only the worst configuration shown here.
2. Factor=Insertion Loss + Cable Loss, Margin= Limit- Results.

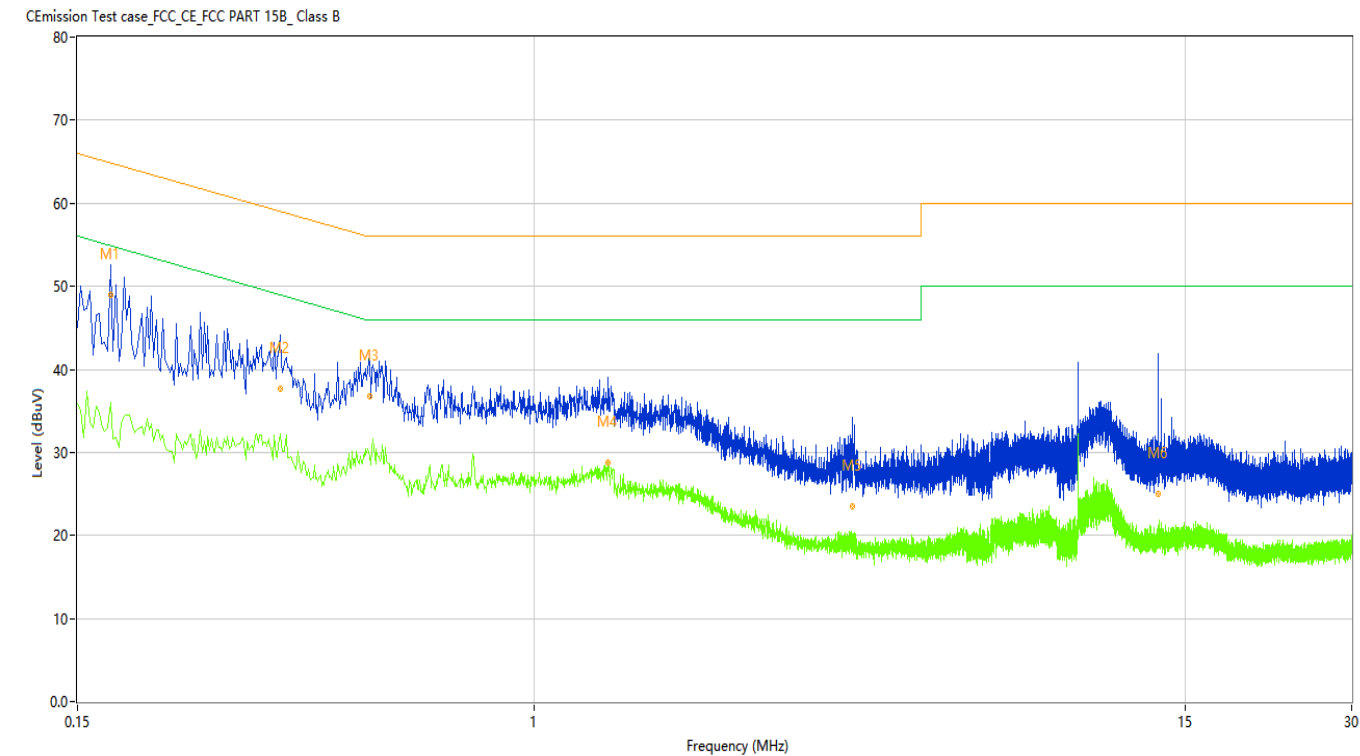
TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 31 of 45

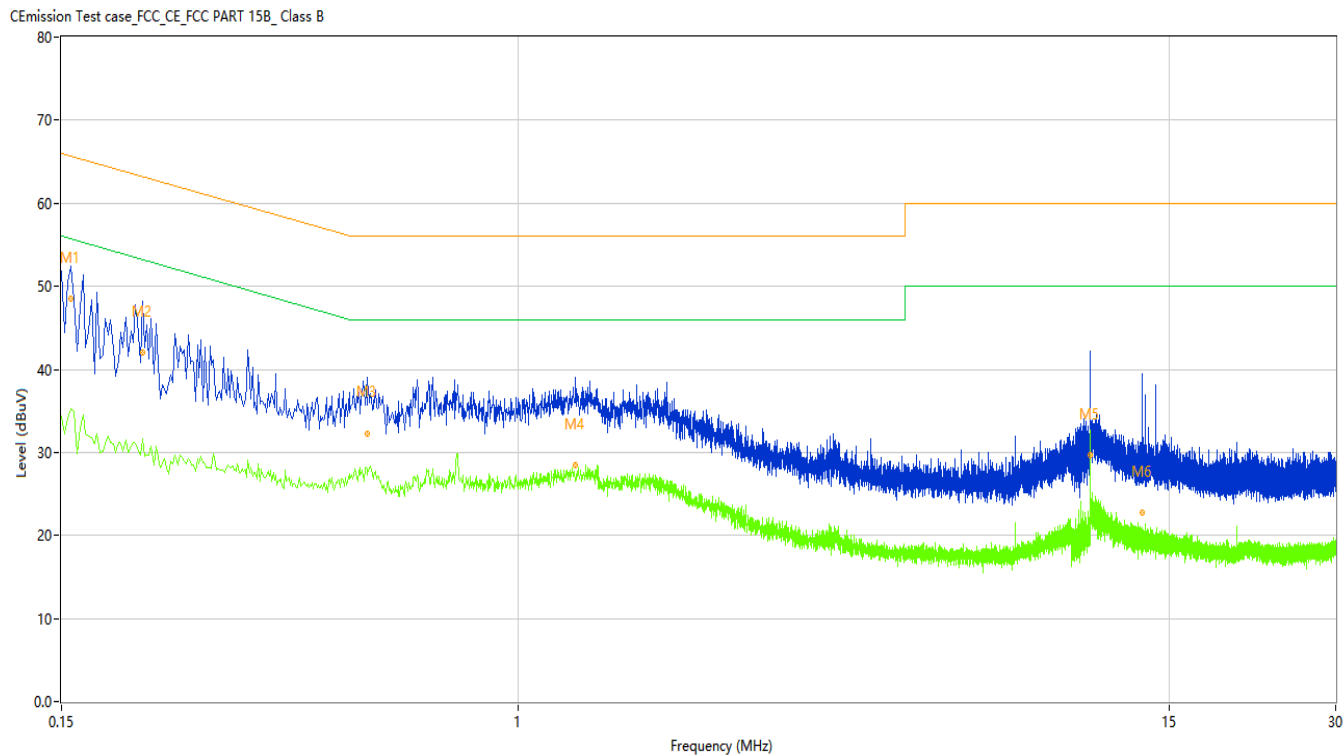
Figure 13: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	62.72	10.27	64.86	2.14	Peak	L	Pass
1*	0.172	49.03	10.27	64.86	15.83	QP	L	Pass
1**	0.172	36.05	10.27	54.86	18.81	AV	L	Pass
2	0.348	43.53	10.23	59.01	15.48	Peak	L	Pass
2*	0.348	37.68	10.23	59.01	21.33	QP	L	Pass
2**	0.348	32.28	10.23	49.01	16.73	AV	L	Pass
3	0.506	41.98	10.20	56.00	14.02	Peak	L	Pass
3*	0.506	36.82	10.20	56.00	19.18	QP	L	Pass
3**	0.506	29.70	10.20	46.00	16.30	AV	L	Pass
4	1.364	38.52	10.02	56.00	17.48	Peak	L	Pass
4*	1.364	28.71	10.02	56.00	27.29	QP	L	Pass
4**	1.364	29.04	10.02	46.00	16.96	AV	L	Pass
5	3.758	32.99	10.15	56.00	23.01	Peak	L	Pass
5*	3.758	23.50	10.15	56.00	32.50	QP	L	Pass
5**	3.758	20.08	10.15	46.00	25.92	AV	L	Pass
6	13.418	40.74	10.51	60.00	19.26	Peak	L	Pass
6*	13.418	24.94	10.51	60.00	35.06	QP	L	Pass
6**	13.418	21.17	10.51	50.00	28.83	AV	L	Pass

TEST REPORT

Figure 14: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	62.82	10.12	65.67	2.85	Peak	N	Pass
1*	0.156	48.47	10.12	65.67	17.20	QP	N	Pass
1**	0.156	35.32	10.12	55.67	20.35	AV	N	Pass
2	0.210	58.35	10.17	63.21	4.86	Peak	N	Pass
2*	0.210	42.08	10.17	63.21	21.13	QP	N	Pass
2**	0.210	31.58	10.17	53.21	21.63	AV	N	Pass
3	0.534	37.90	10.04	56.00	18.10	Peak	N	Pass
3*	0.534	32.29	10.04	56.00	23.71	QP	N	Pass
3**	0.534	28.09	10.04	46.00	17.91	AV	N	Pass
4	1.272	37.42	9.86	56.00	18.58	Peak	N	Pass
4*	1.272	28.44	9.86	56.00	27.56	QP	N	Pass
4**	1.272	26.53	9.86	46.00	19.47	AV	N	Pass
5	10.810	41.48	10.29	60.00	18.52	Peak	N	Pass
5*	10.810	29.75	10.29	60.00	30.25	QP	N	Pass
5**	10.810	32.77	10.29	50.00	17.23	AV	N	Pass
6	13.416	40.31	10.43	60.00	19.69	Peak	N	Pass
6*	13.416	22.82	10.43	60.00	37.18	QP	N	Pass
6**	13.416	20.59	10.43	50.00	29.41	AV	N	Pass

TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 33 of 45

5 Appendixes

5.1 External Photo of the Sample



All of the sample



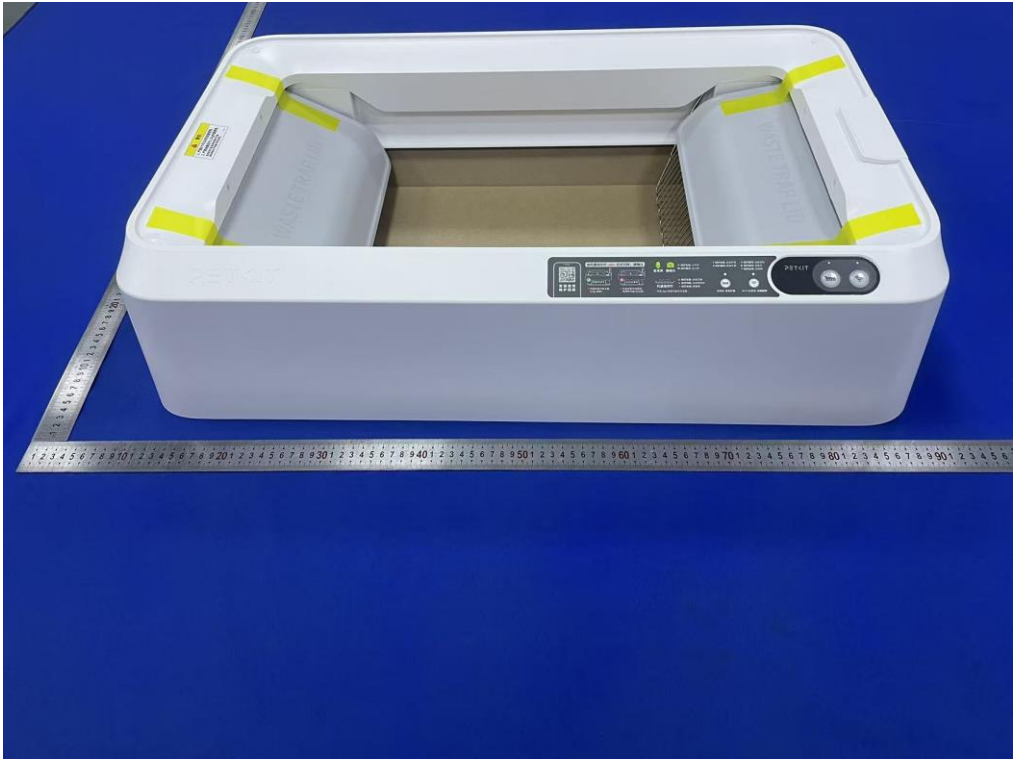
Adapter of the sample

TEST REPORT

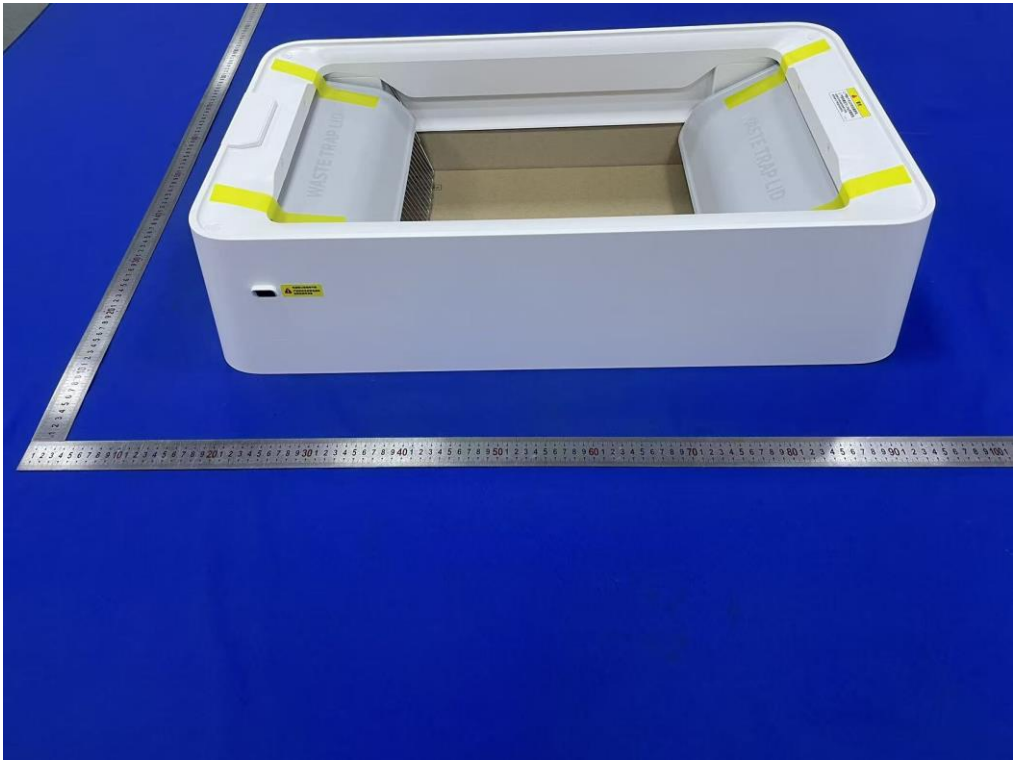
Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 34 of 45



Front of the sample



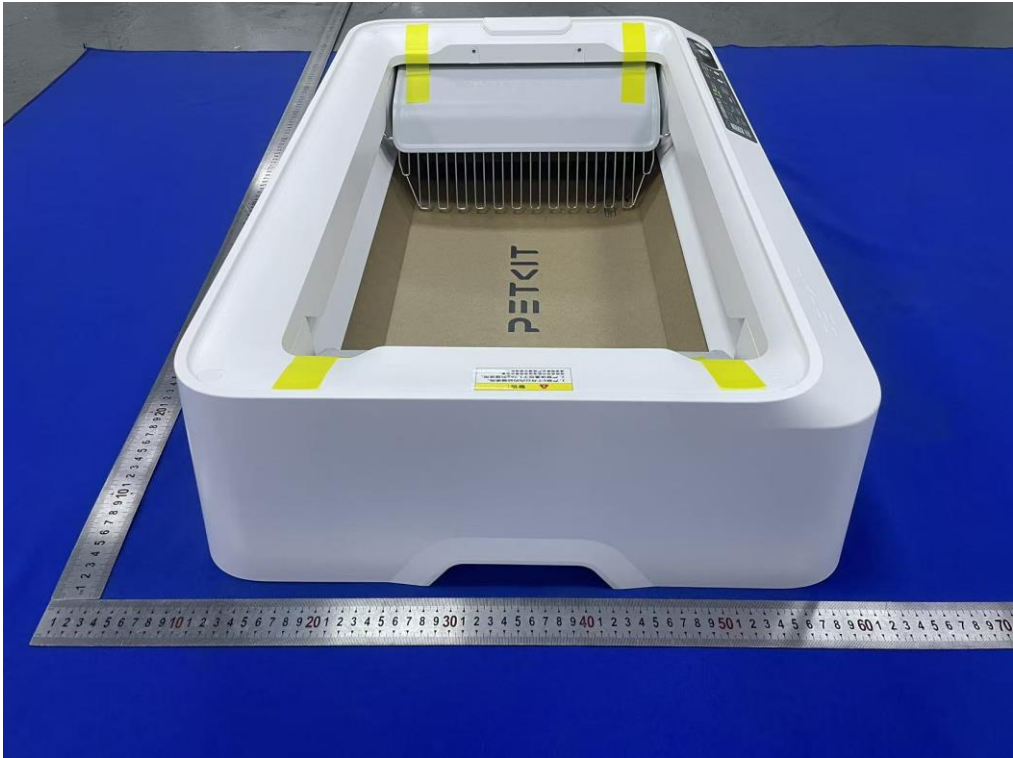
Rear of the sample

TEST REPORT

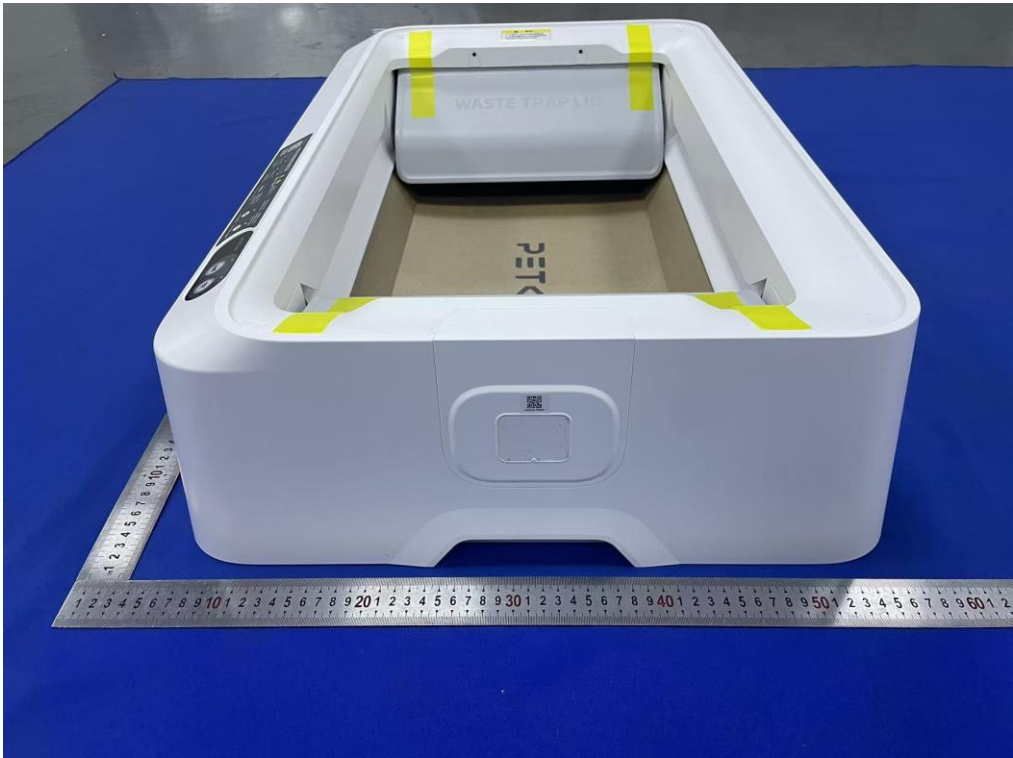
Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 35 of 45



Left of the sample



Right of the sample

TEST REPORT

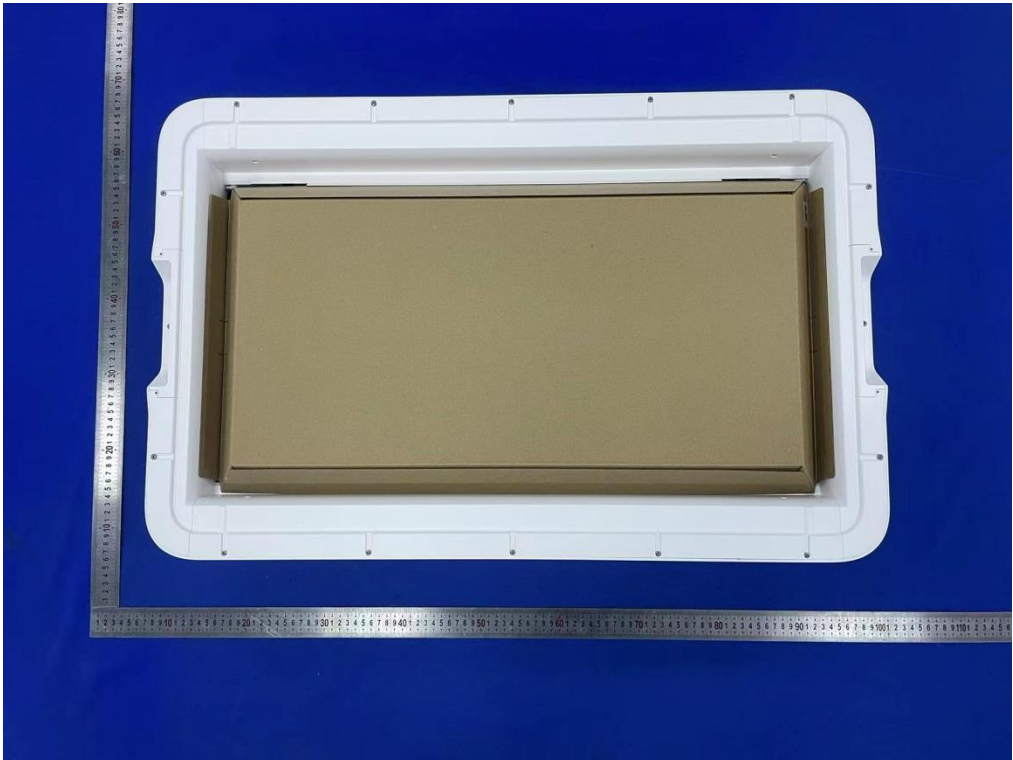
Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 36 of 45



Top of the sample



Bottom of the sample

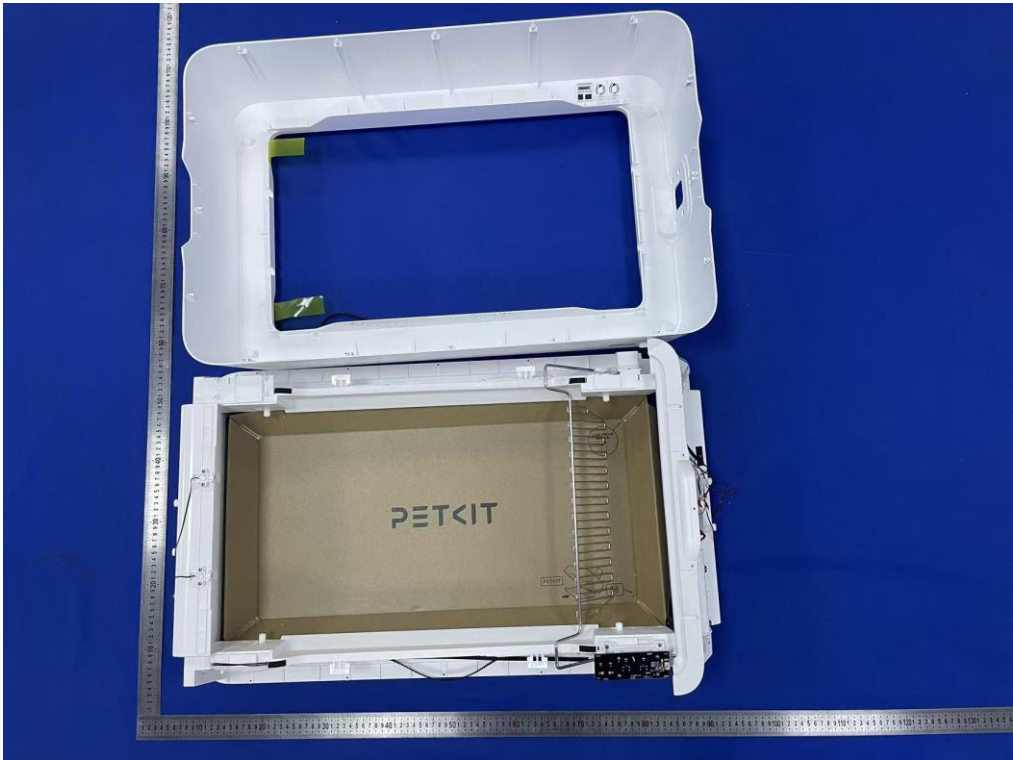
TEST REPORT

Report No.: SHE26040021-02DE

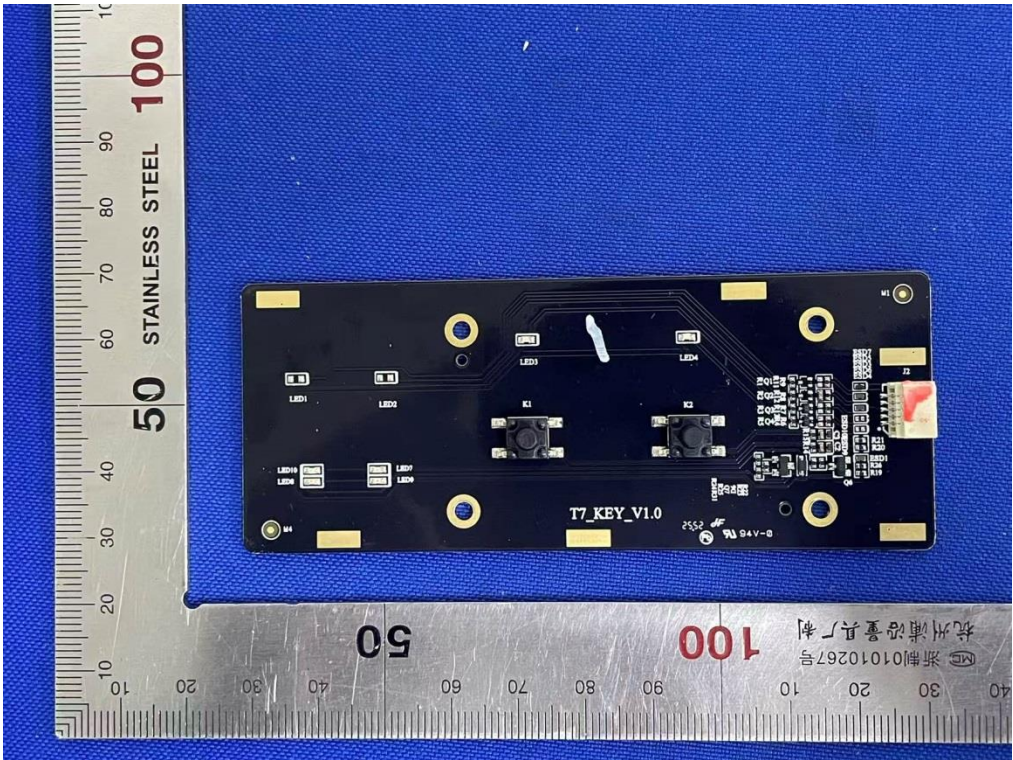
Date: 2026-05-13

Page 37 of 45

5.2 Internal Photo of the Sample

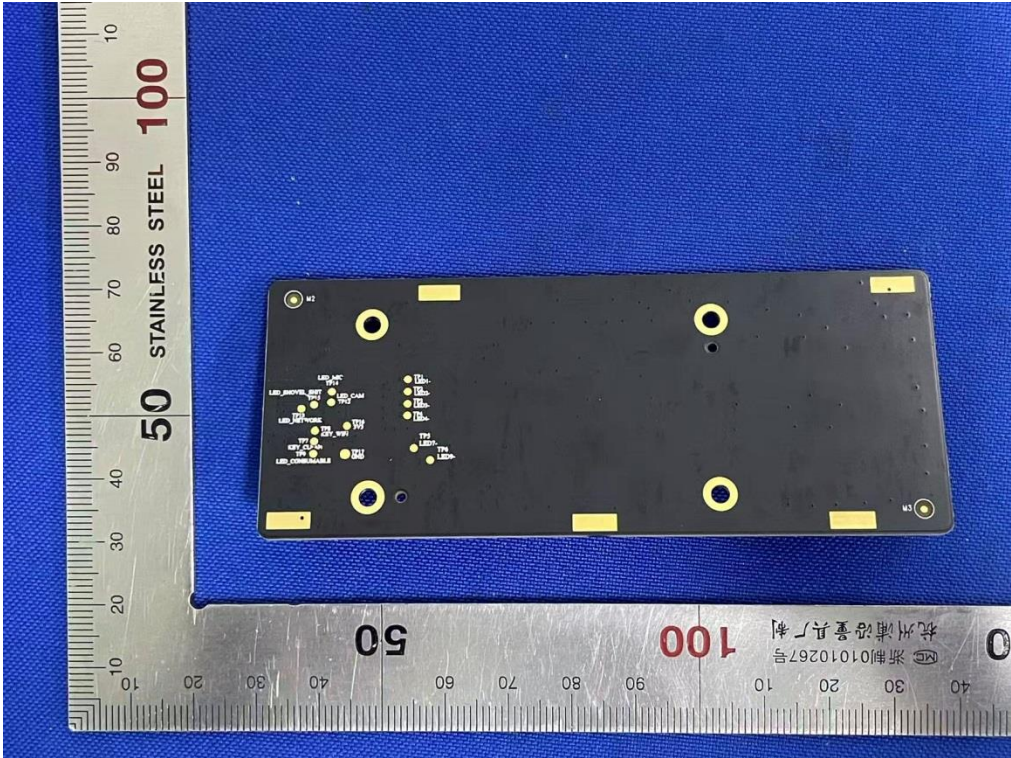


Open of the sample

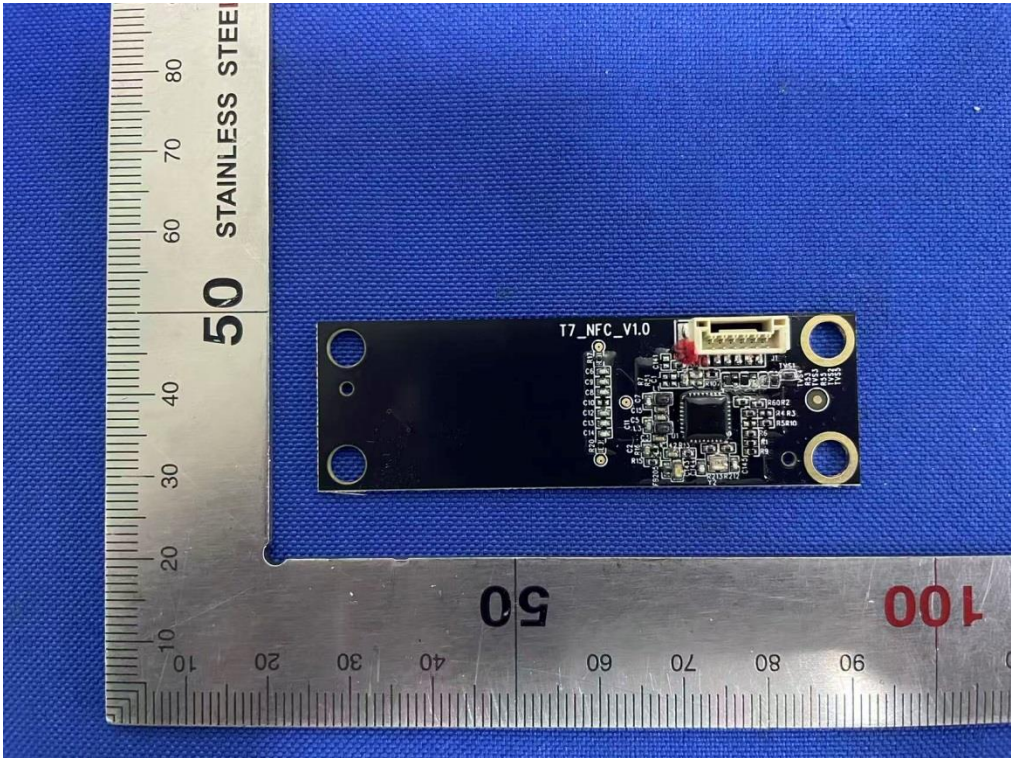


Internal-1 of the sample

TEST REPORT



Internal-2 of the sample



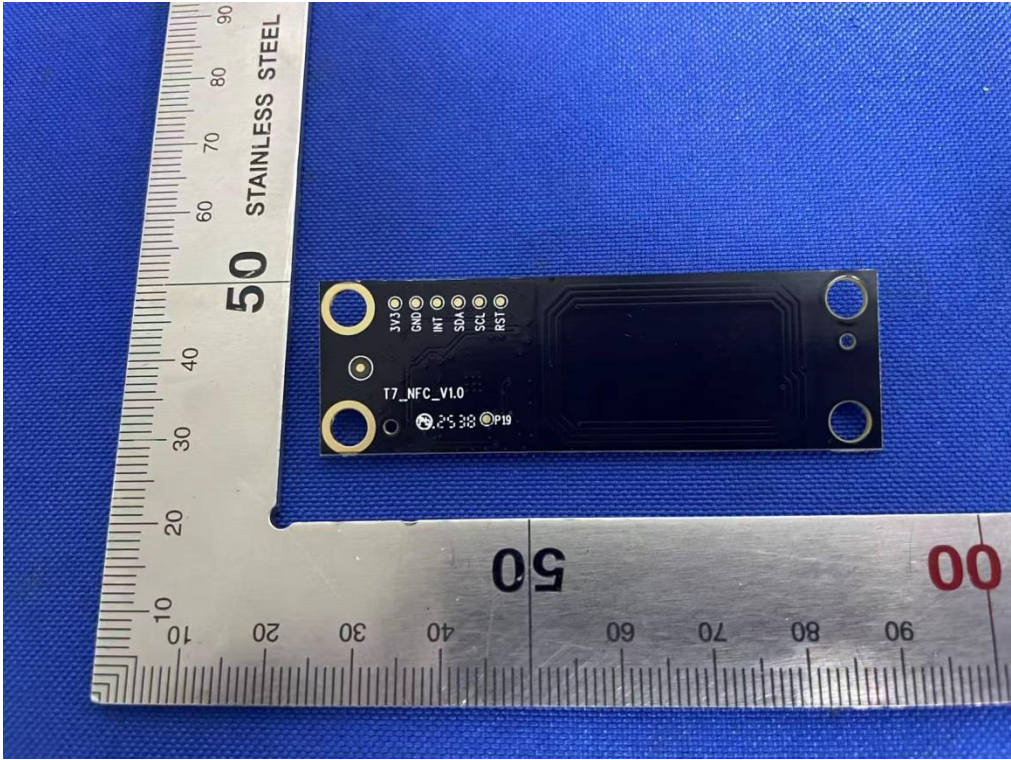
Internal-3 of the sample

TEST REPORT

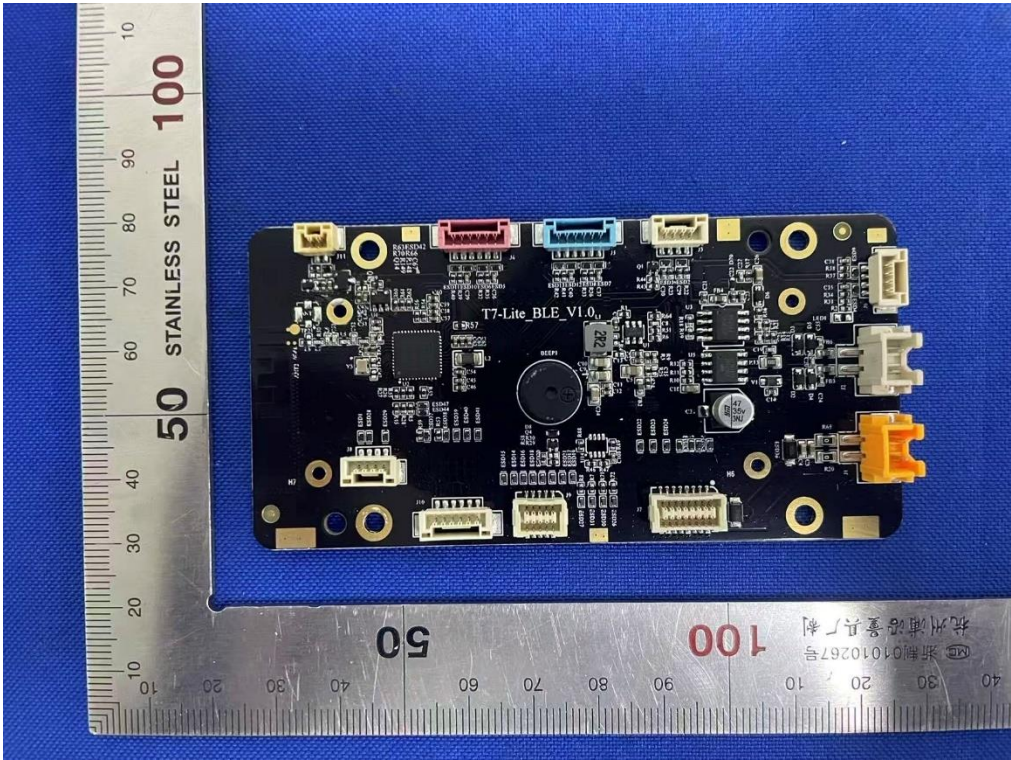
Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 39 of 45



Internal-4 of the sample



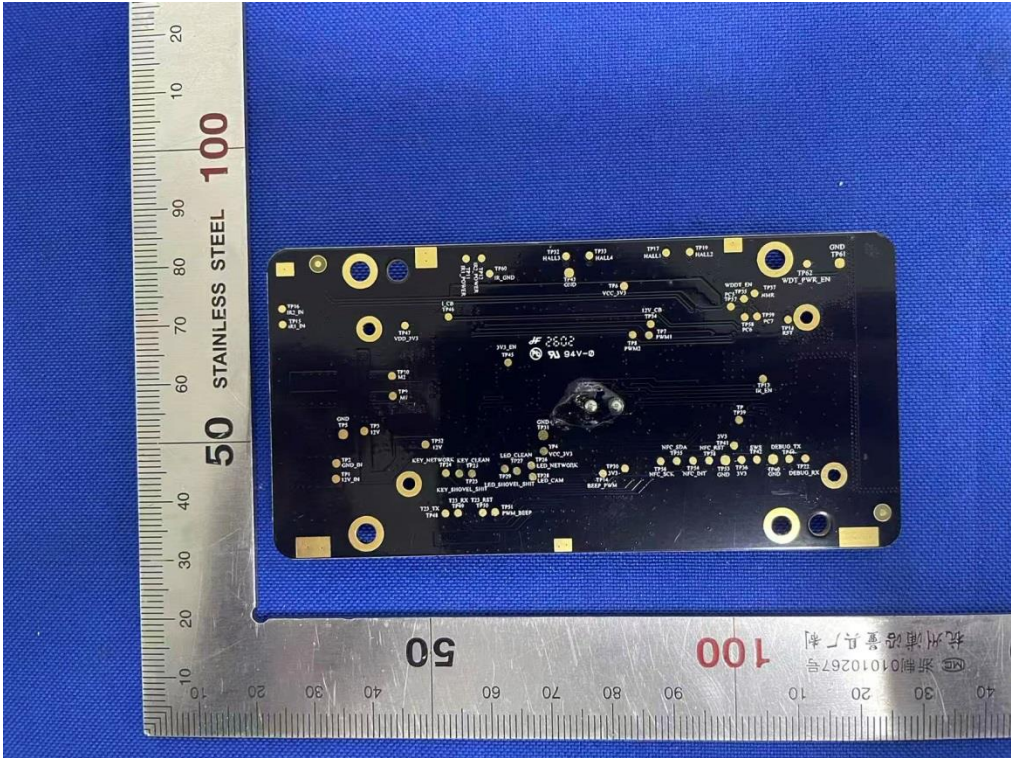
Internal-5 of the sample

TEST REPORT

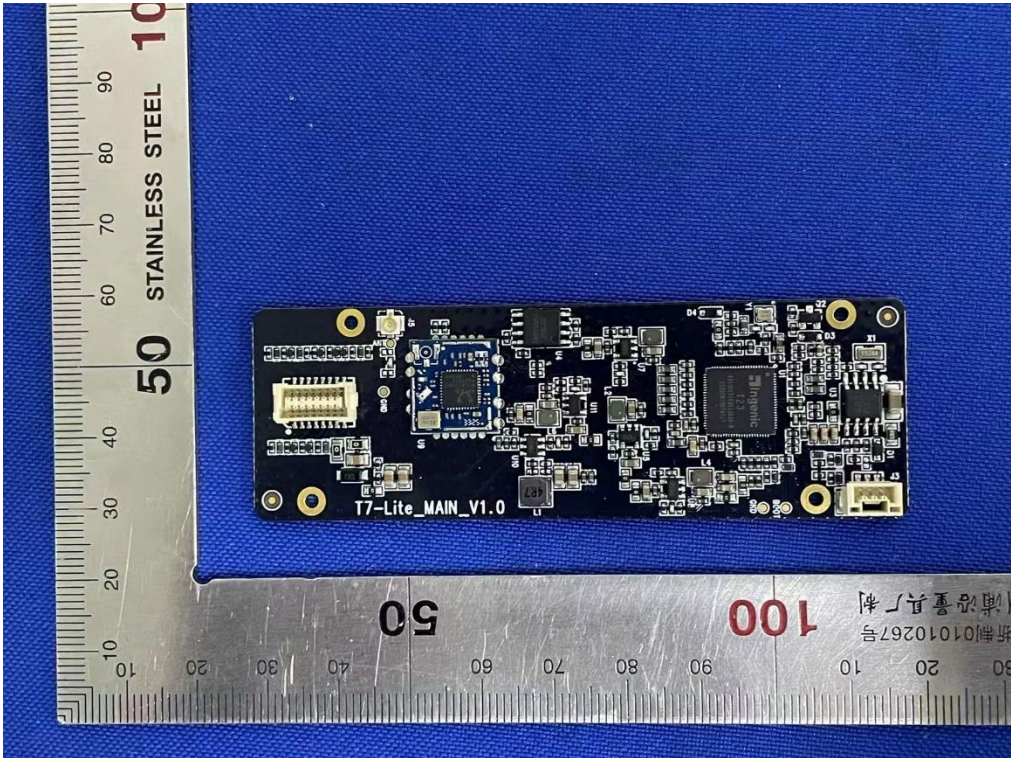
Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 40 of 45



Internal-6 of the sample



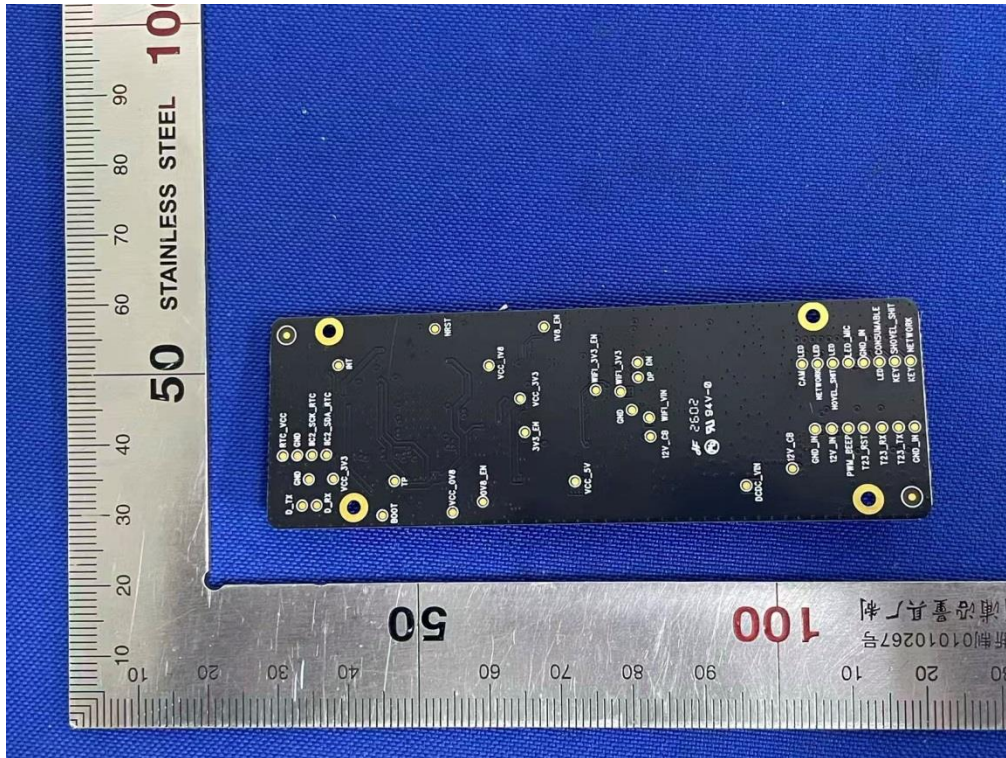
Internal-7 of the sample

TEST REPORT

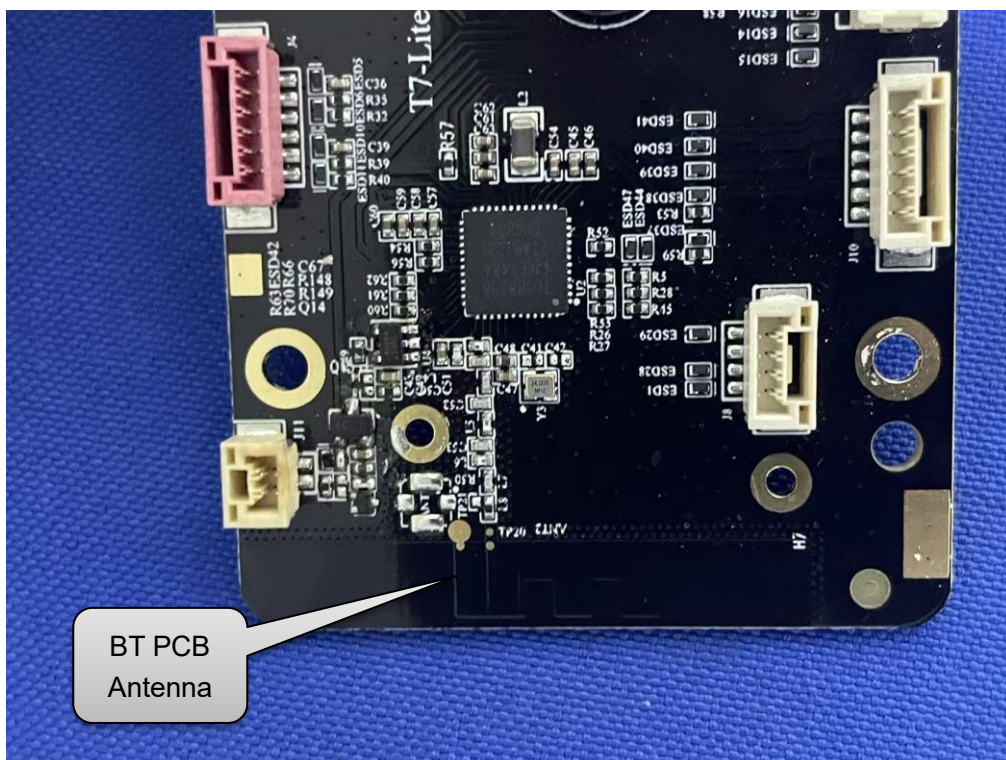
Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 41 of 45



Internal-8 of the sample



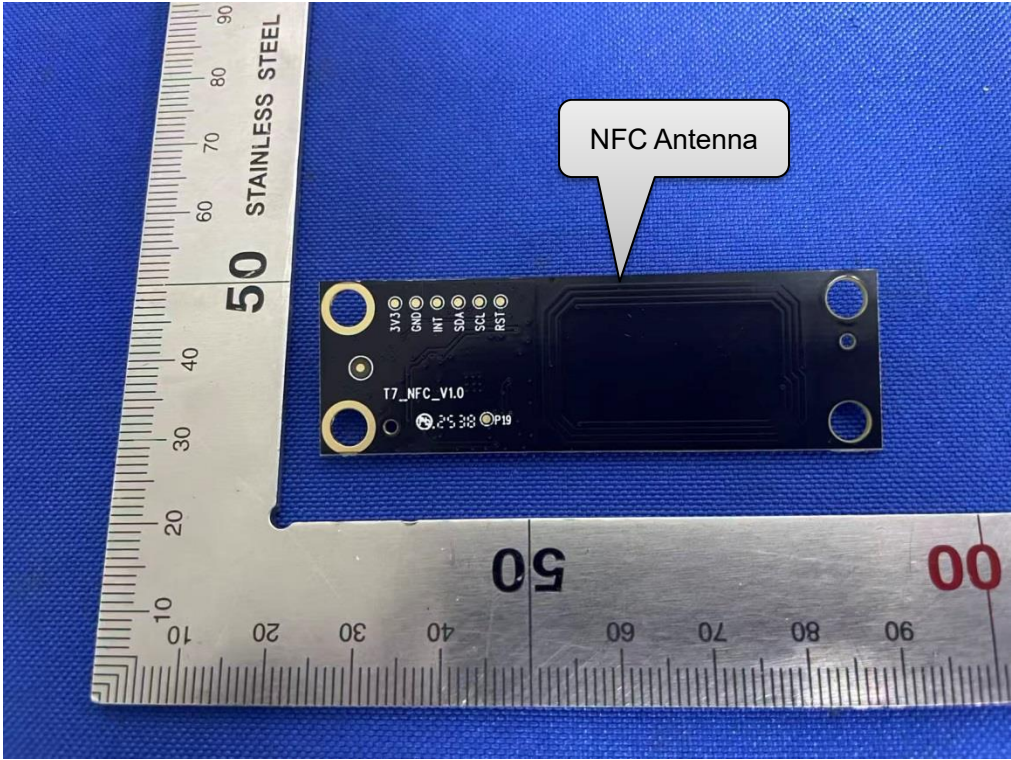
Bluetooth Antenna position

TEST REPORT

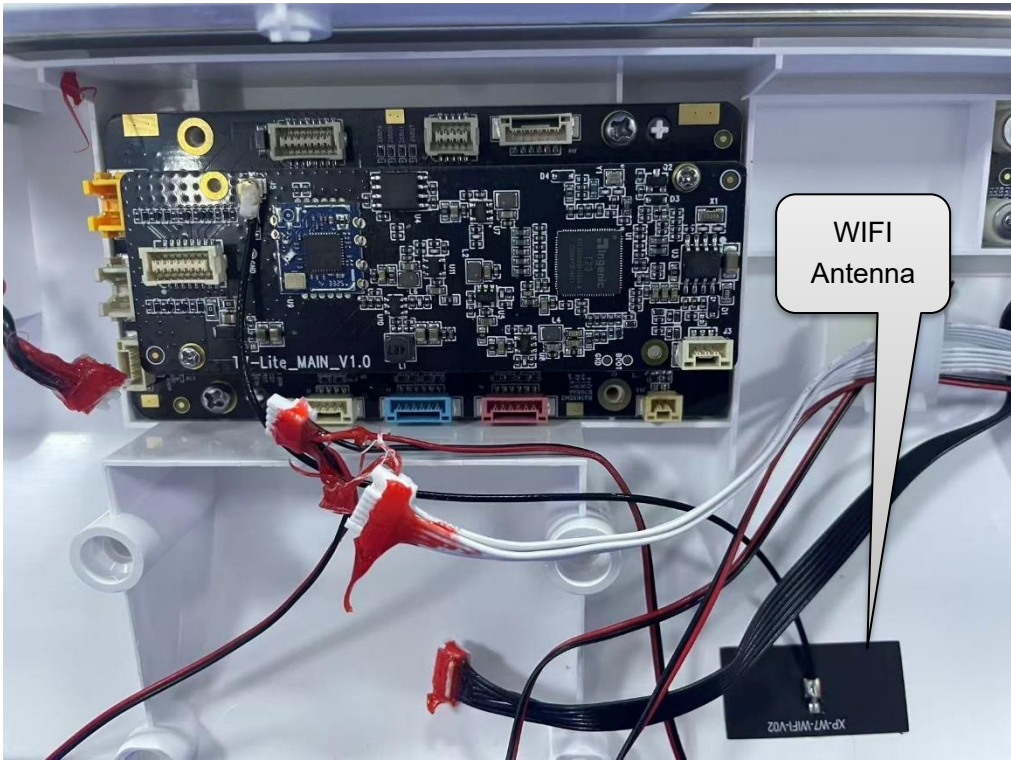
Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 42 of 45



NFC Antenna position



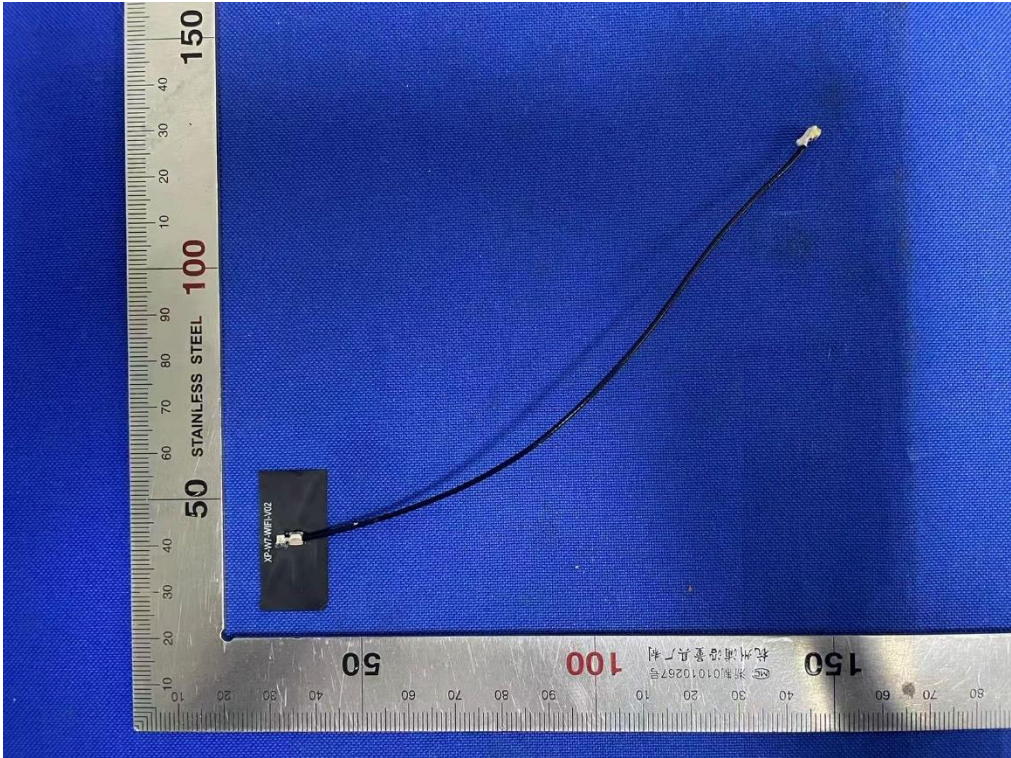
WIFI Antenna position

TEST REPORT

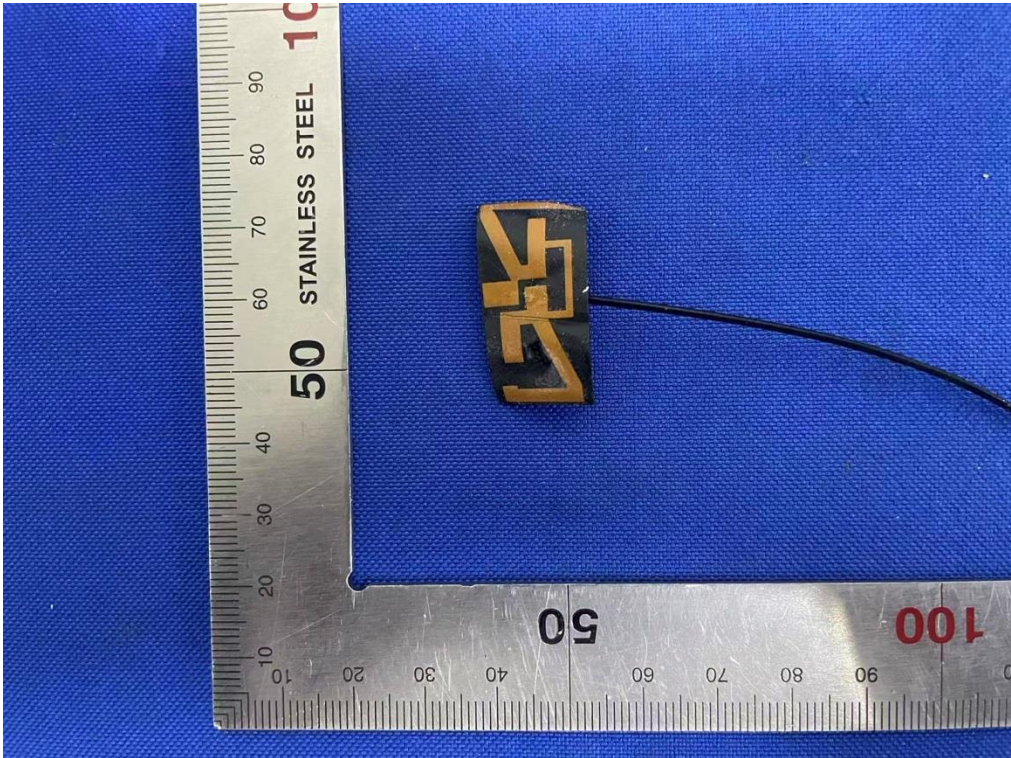
Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 43 of 45



WIFI Antenna-Front



WIFI Antenna-Back

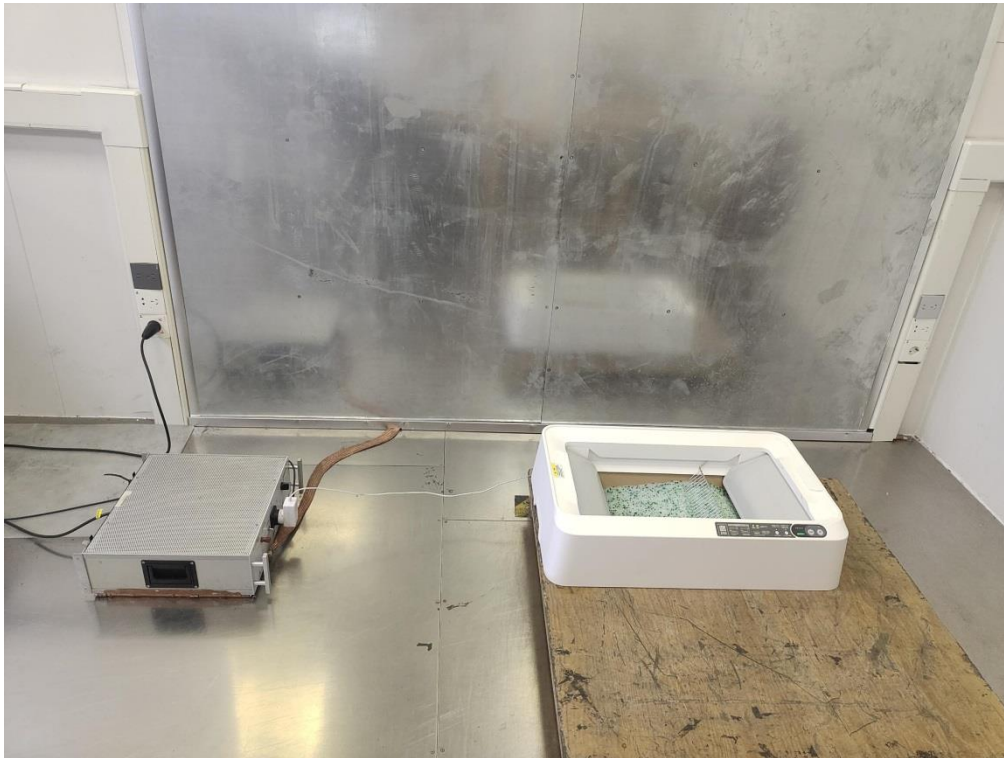
TEST REPORT

Report No.: SHE26040021-02DE

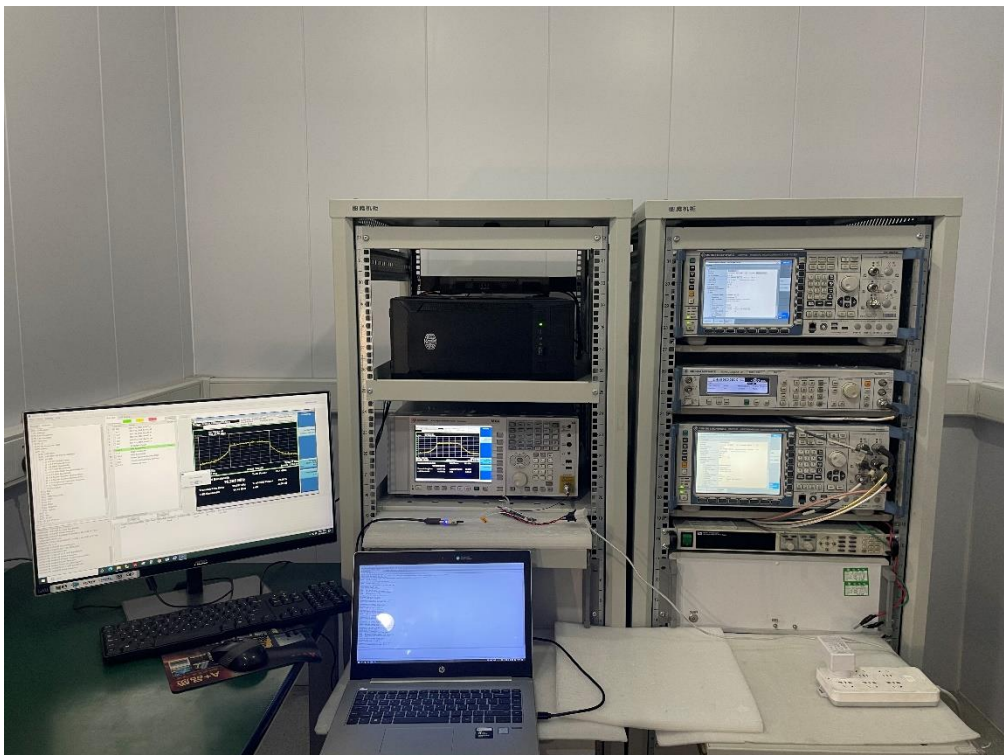
Date: 2026-05-13

Page 44 of 45

5.3 Set-up for Conducted Emissions on AC Mains



5.4 Set-up for Conducted RF test at Antenna Port



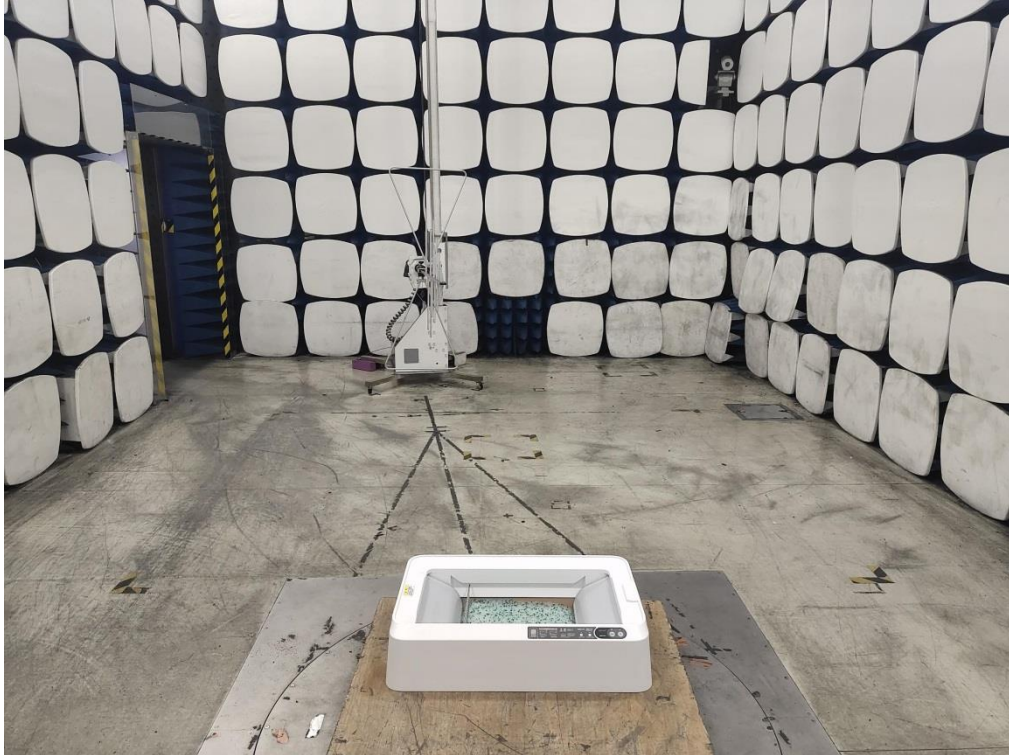
TEST REPORT

Report No.: SHE26040021-02DE

Date: 2026-05-13

Page 45 of 45

5.5 Set-up for Spurious Emissions below 1GHz



5.6 Set-up for Spurious Emissions above 1GHz



End of the report