

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 1 of 40

Applicant : Keeson Technology Corporation Limited
Address of Applicant : No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province, China.

Product Name : CONTROL BOX
Brand Name : N/A
Model Name : MC321
Sample Acquisition Method : Sent by Client
Sample No. : E26020003-02#02
E26020003-02#05

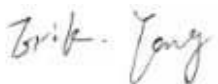
FCC ID : 2AK23MC321
ISED Number : 22406-MC321

Standards : FCC CFR47 Part 15.247, Subpart C
RSS-Gen (Issue 5, Amd.1-Mar. 2019+Amd.2-Feb. 2021)
RSS-247 (Issue 4, July 24, 2025)

Date of Receipt : 2026-02-04
Date of Test : 2026-03-05 ~ 2026-03-20
Date of Issue : 2026-03-21

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.

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Approved by: 
(Authorized signatory: Echo Mu)

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 2 of 40

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.....	5
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	10
4.1	TRANSMITTER REQUIREMENT & TEST SUITES.....	10
4.1.1	<i>Antenna Requirement</i>	<i>10</i>
4.1.2	<i>Maximum peak conducted output power and E.I.R.P.....</i>	<i>11</i>
4.1.3	<i>6dB Bandwidth and 99% Bandwidth.....</i>	<i>14</i>
4.1.4	<i>Maximum conducted output power spectral density</i>	<i>18</i>
4.1.5	<i>Conducted Spurious Emission & Authorized-band band-edge</i>	<i>21</i>
4.1.6	<i>Radiated Emission</i>	<i>28</i>
4.1.7	<i>Band Edge (Restricted-band band-edge)</i>	<i>29</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.....	36
5.3	SET-UP FOR CONDUCTED RF TEST AT ANTENNA PORT.....	38
5.4	SET-UP FOR CONDUCTED EMISSIONS ON AC MAINS.....	38
5.5	SET-UP FOR SPURIOUS EMISSIONS BELOW 1GHZ	39
5.6	SET-UP FOR SPURIOUS EMISSIONS ABOVE 1GHZ	39

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 3 of 40

1 General Information

1.1 Testing Laboratory

ISED CAB identifier #	CN0081
Company number #	25174
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	Keeson Technology Corporation Limited
Applicant Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.
Contact Person	Sam xu
Telephone	+86 18279170755
Email	Sam.Xu@keeson.com
Manufacturer Company Name	Aige Intelligent Technology(Jiaxing)Co.,Ltd.
Manufacturer Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.
Factory Company Name	Aige Intelligent Technology(Jiaxing)Co.,Ltd.
Factory Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.

1.3 Details of EUT

Product Name	CONTROL BOX
Brand Name	N/A
Test Model Name	MC321
FCC ID	2AK23MC321
ISED Number	22406-MC321
Frequency Range	2403MHz ~ 2480MHz
Number of Channels	78
Modulation Type	GFSK
Max RF Output Power-Conducted	1.38dBm
Antenna Type	PCB Antenna
Antenna Gain	0dBi
Extreme Temperature Range	-10°C to +40°C
Test Voltage	DC 29V supply by adapter
Hardware Version	V1.0
Software Version	V1.0

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 4 of 40

RF power setting in TEST SW

Enter the fixed frequency mode by pressing the key_Default power

Note:

1. The above information was declared by the manufacture.
2. For more details, please refer to the User's manual of the EUT.

Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2.403GHz	28	2.430GHz	55	2.457GHz
2	2.404GHz	29	2.431GHz	56	2.458GHz
3	2.405GHz	30	2.432GHz	57	2.459GHz
4	2.406GHz	31	2.433GHz	58	2.460GHz
5	2.407GHz	32	2.434GHz	59	2.461GHz
6	2.408GHz	33	2.435GHz	60	2.462GHz
7	2.409GHz	34	2.436GHz	61	2.463GHz
8	2.410GHz	35	2.437GHz	62	2.464GHz
9	2.411GHz	36	2.438GHz	63	2.465GHz
10	2.412GHz	37	2.439GHz	64	2.466GHz
11	2.413GHz	38	2.440GHz	65	2.467GHz
12	2.414GHz	39	2.441GHz	66	2.468GHz
13	2.415GHz	40	2.442GHz	67	2.469GHz
14	2.416GHz	41	2.443GHz	68	2.470GHz
15	2.417GHz	42	2.444GHz	69	2.471GHz
16	2.418GHz	43	2.445GHz	70	2.472GHz
17	2.419GHz	44	2.446GHz	71	2.473GHz
18	2.420GHz	45	2.447GHz	72	2.474GHz
19	2.421GHz	46	2.448GHz	73	2.475GHz
20	2.422GHz	47	2.449GHz	74	2.476GHz
21	2.423GHz	48	2.450GHz	75	2.477GHz
22	2.424GHz	49	2.451GHz	76	2.478GHz
23	2.425GHz	50	2.452GHz	77	2.479GHz
24	2.426GHz	51	2.453GHz	78	2.480GHz
25	2.427GHz	52	2.454GHz		
26	2.428GHz	53	2.455GHz		
27	2.429GHz	54	2.456GHz		

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 5 of 40

1.4 Test Methodology

47 CFR Part 15, Subpart C	Telecommunication-Radio Frequency Devices-Intentional Radiators
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
ANSI C63.10-2020+Cor.1-2023 for FCC	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 for ISED	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
RSS-Gen (Issue 5, Amd.1-Mar. 2019 +Amd.2-Feb. 2021)	General Requirements for Compliance of Radio Apparatus
RSS-247 (Issue 4, July 24, 2025)	RSS-247 — Digital Transmission Systems, Frequency Hopping Systems and Licence- Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150- 5350 MHz, and 5470-5895 MHz bands

Note(s):

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

1.5 Test Summary

Test Item	FCC Rules	ISED Rules	Result
Antenna Requirement	FCC Part 15.247(b)(4), Part 15.203	RSS-GEN 6.8	PASS
Maximum peak conducted output power and E.I.R.P	FCC Part 15.247(b)(3)	RSS-247 6.3.2	PASS
6dB Bandwidth and 99% Bandwidth	FCC Part 15.247(a)(2)	RSS-247 6.3.1 RSS-Gen 6.7	PASS
Maximum conducted output power spectral density	FCC Part 15.247(e)	RSS-247 6.3.1	PASS
Conducted Spurious Emission & Authorized-band band-edge	FCC Part 15.247(d)	RSS-247 6.6	PASS
Radiated Emission	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.9	PASS
Band Edge (Restricted-band band-edge)	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.10	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	RSS-Gen 8.8	PASS

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 6 of 40

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	N9020B	MY59260184	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	ESR 7	101911	2025-06-09	2026-06-08
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2025-06-09	2026-06-08
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
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.: SHE26020003-05DE

Date: 2026-03-21

Page 7 of 40

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 expanded 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		$\pm 1.12\text{dB}$

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 8 of 40

3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software to control EUT work in continuous transmitting mode. Select test channel as below:

Channel	Frequency
The lowest channel(CH1)	2403MHz
The middle channel(CH40)	2442MHz
The highest channel(CH78)	2480MHz

The basic operation modes are:

- A. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
AC/DC ADAPTER	GRP	GRP-A290020-A	680024554D0371705096

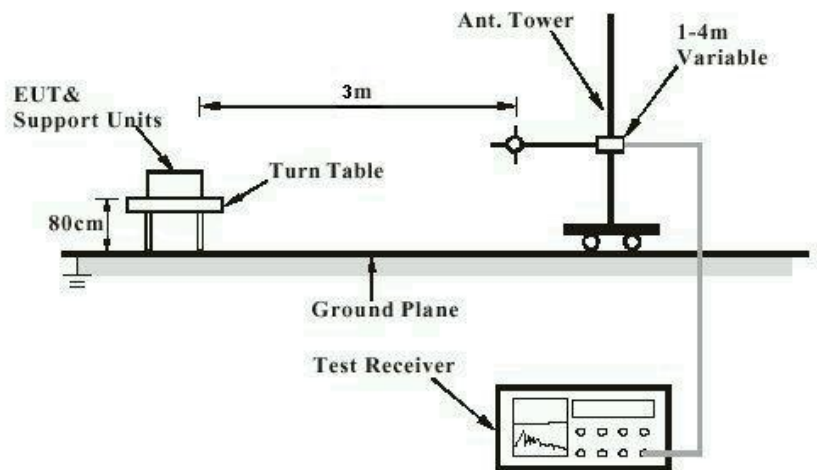
3.3 Support Software

Description	Manufacturer	Software Name
N/A	N/A	N/A

TEST REPORT

3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Conduction Measurement

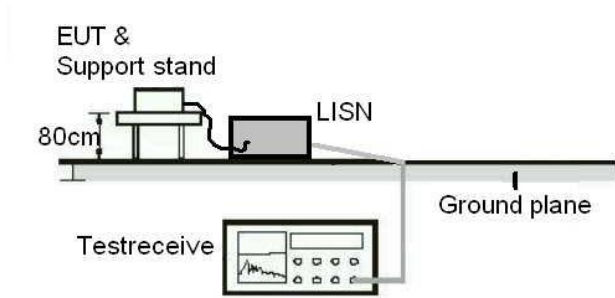
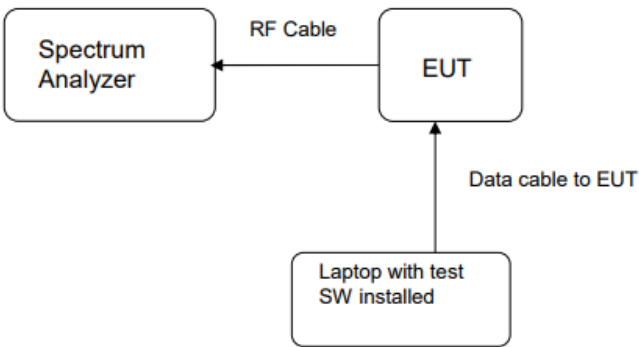


Diagram of Measurement Equipment Configuration for Transmitter Test



TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 10 of 40

4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard	: FCC Part 15.247(b)(4), Part 15.203 RSS-GEN 6.8
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 0dBi. The antenna is pcb 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.: SHE26020003-05DE

Date: 2026-03-21

Page 11 of 40

4.1.2 Maximum peak conducted output power and E.I.R.P

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3), RSS-247 6.3.2
Requirement : ANSI C63.10 clause 11.9.1.1,
KDB 558074 D01 v05r02, Clause 8.3.1
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 21.4°C
Relative humidity : 50.1%

Table 1: Maximum peak conducted output power

Test Mode	Test Channel (MHz)	Maximum peak conducted output power		Limit (W)
		(dBm)	(mW)	
GFSK	2403	1.38	1.37	< 1
	2442	0.20	1.05	
	2480	-0.83	0.83	

Table 2: E.I.R.P

Test Mode	Test Channel (MHz)	E.I.R.P		Limit (W)
		(dBm)	(mW)	
GFSK	2403	1.38	1.37	< 4
	2442	0.20	1.05	
	2480	-0.83	0.83	

Note: The antenna gain is 0dBi

E.I.R.P= peak conducted output power+antenna gain

TEST REPORT

Report No.: SHE26020003-05DE Date: 2026-03-21 Page 12 of 40

Figure 1: The plots of Peak Output Power, 2403MHz

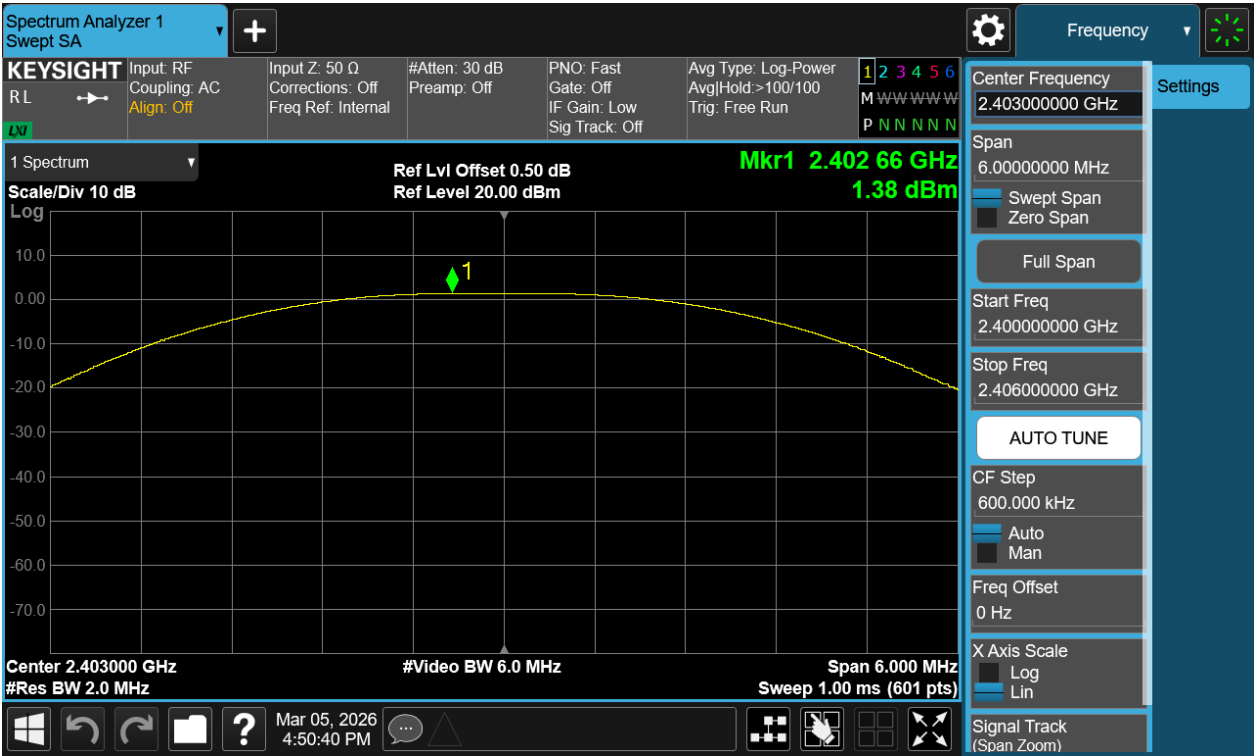
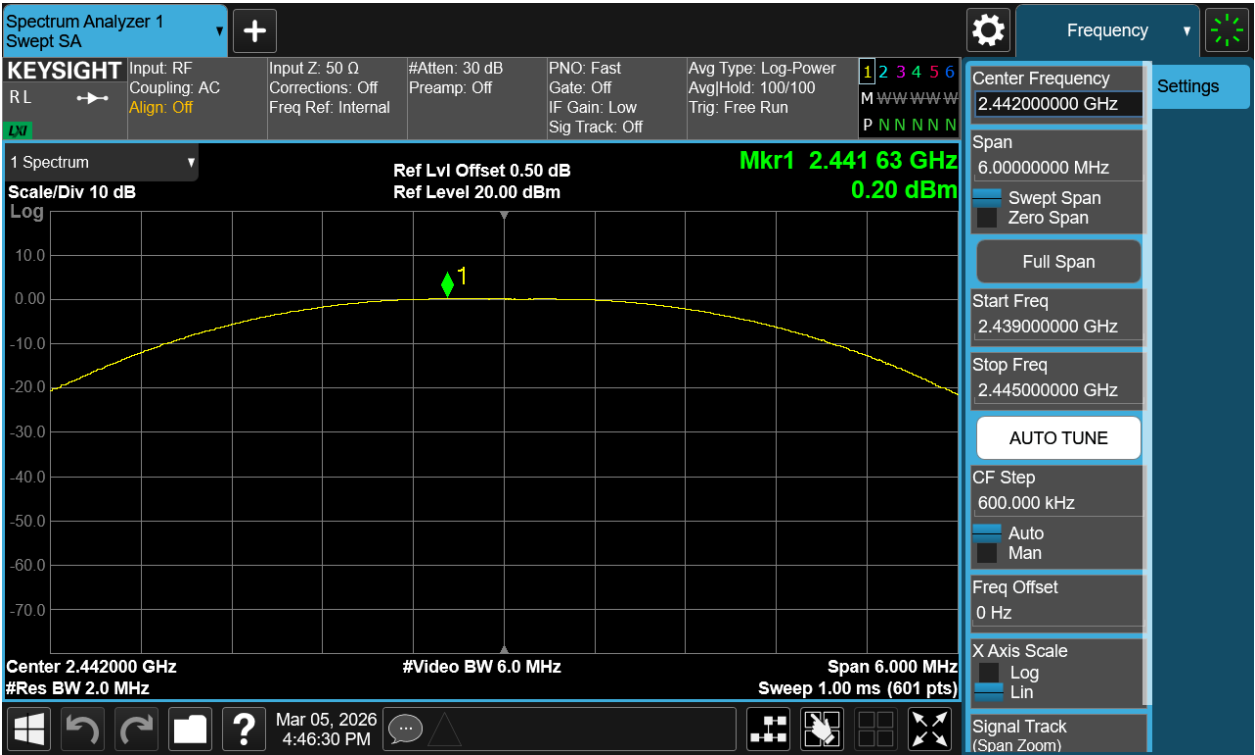


Figure 2: The plots of Peak Output Power, 2442MHz



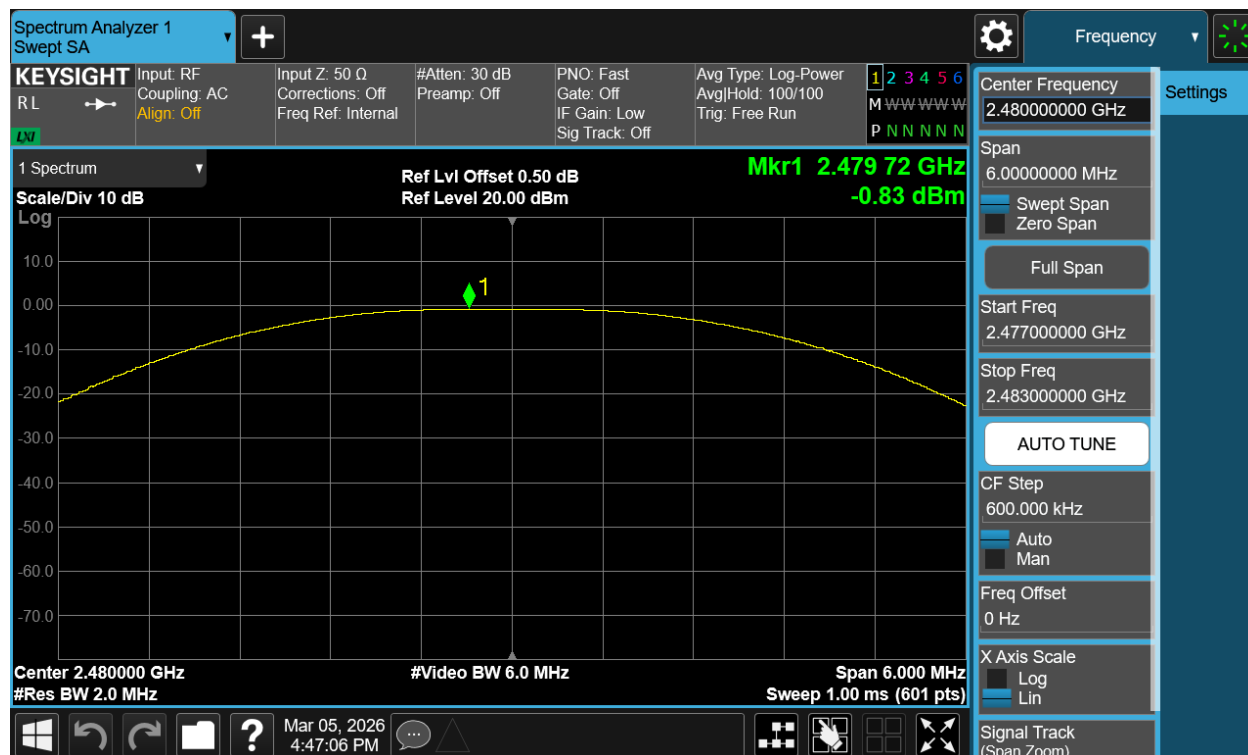
TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 13 of 40

Figure 3: The plots of Peak Output Power, 2480MHz



TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 14 of 40

4.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.247(a)(2), RSS-247 6.3.1
RSS-Gen 6.7
Requirement : ANSI C63.10 clause 11.8.1,
KDB 558074 D01 v05r02, Clause 8.2
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 21.4°C
Relative humidity : 50.1%

Table 3: 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth Limit
GFSK	2403	0.8303	1.7917	>0.5 MHz
	2442	0.7634	1.7711	
	2480	0.7946	1.7702	

TEST REPORT

Report No.: SHE26020003-05DE Date: 2026-03-21 Page 15 of 40

Figure 4: The plots of 6dB Bandwidth, 2403MHz



99% Bandwidth, 2403MHz



TEST REPORT

Report No.: SHE26020003-05DE Date: 2026-03-21 Page 16 of 40

Figure 5: The plots of 6dB Bandwidth, 2442MHz



99% Bandwidth, 2442MHz



TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 17 of 40

Figure 6: The plots of 6dB Bandwidth, 2480MHz



99% Bandwidth, 2480MHz



TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 18 of 40

4.1.4 Maximum conducted output power spectral density

RESULT:

PASS

Test standard : FCC Part 15.247(e), RSS-247 6.3.1

Requirement : ANSI C63.10 clause 11.10.2,
KDB 558074 D01 v05r02, Clause 8.4

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 21.4°C

Relative humidity : 50.1%

Table 4: Maximum conducted output power spectral density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
GFSK	2403	-11.38	8
	2442	-14.34	
	2480	-14.70	

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 19 of 40

Figure 7: The plots of Power Spectral Density, 2403MHz

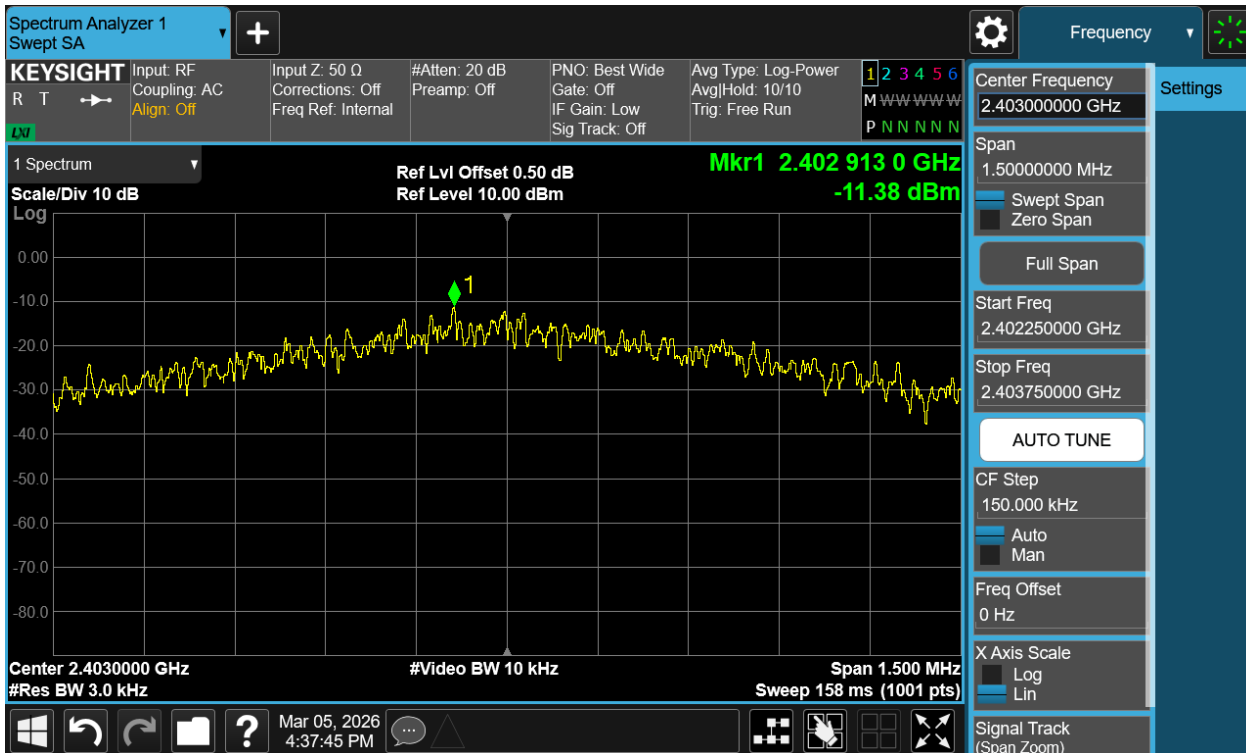
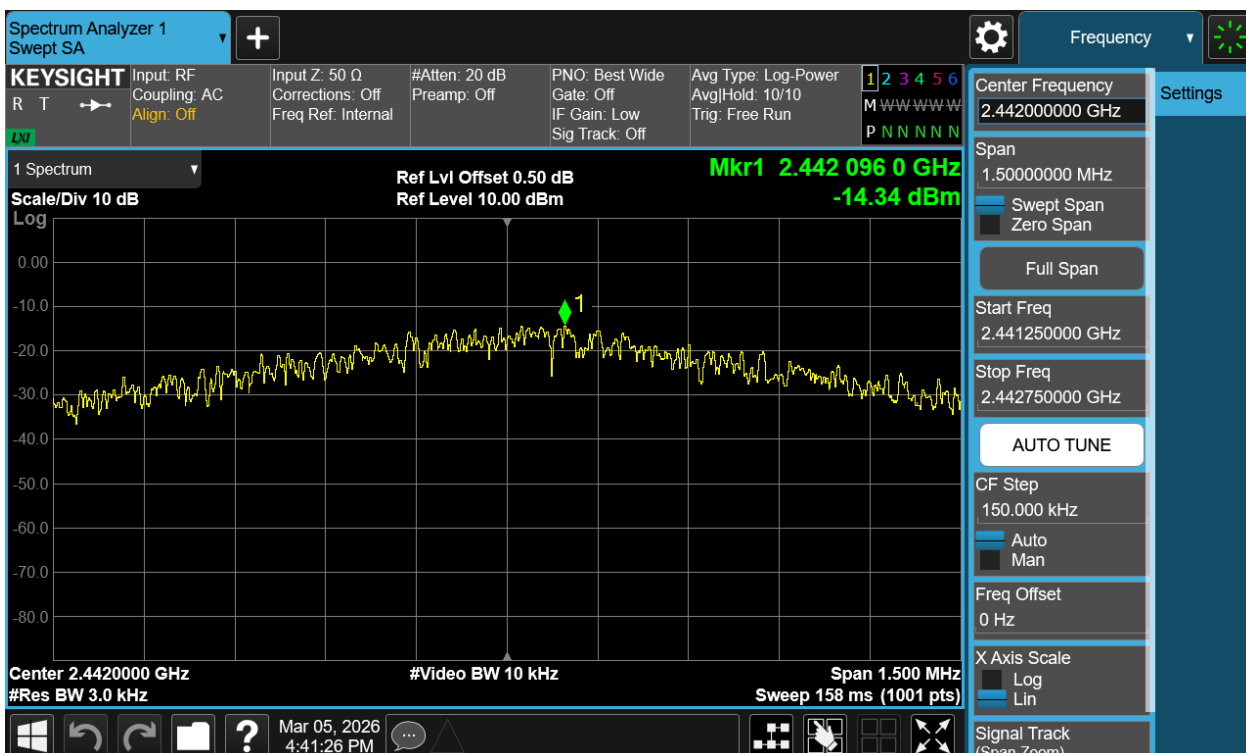


Figure 8: The plots of Power Spectral Density, 2442MHz



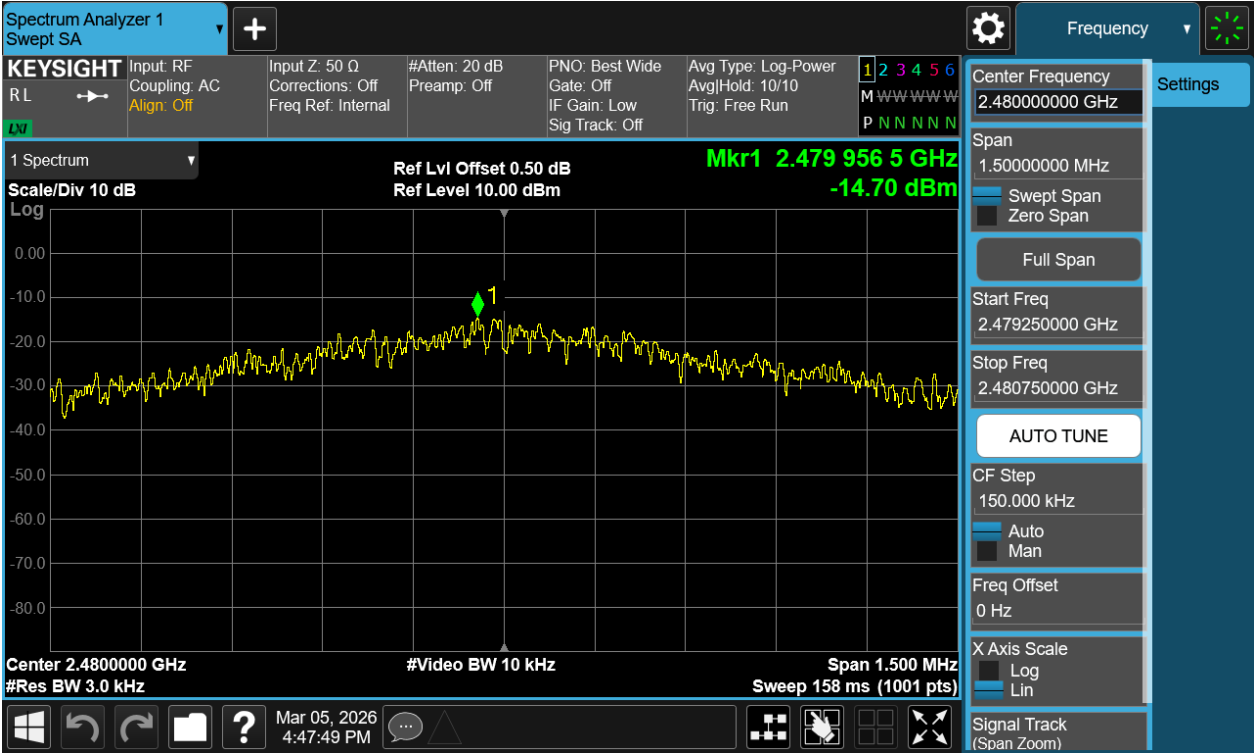
TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 20 of 40

Figure 9: The plots of Power Spectral Density, 2480MHz



TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 21 of 40

4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard	: FCC Part 15.247(d), RSS-247 6.6
Requirement	: ANSI C63.10 Clause 11.11.1 KDB 558074 D01 v05r02, Clause 8.5
Kind of test site	: Shielded room

Test setup

Test Channel	: Low/Middle/High for spurious, Low/High for Band Edge
Operation Mode	: A.1.a
Ambient temperature	: 21.4°C
Relative humidity	: 50.1%

For details refer to following test plot.

Note: The conducted spurious emissions test has compensated for the maximum line loss measurement, and the recorded data represents the worst-case scenario.

TEST REPORT

Report No.:

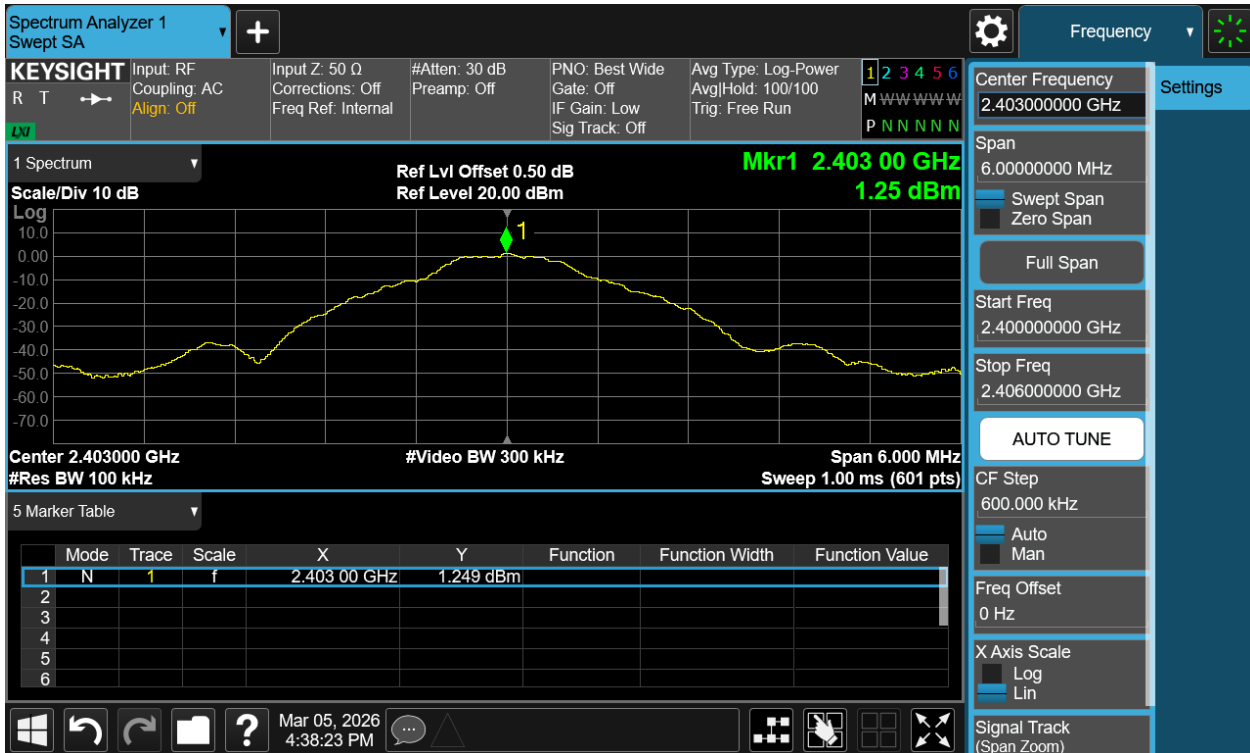
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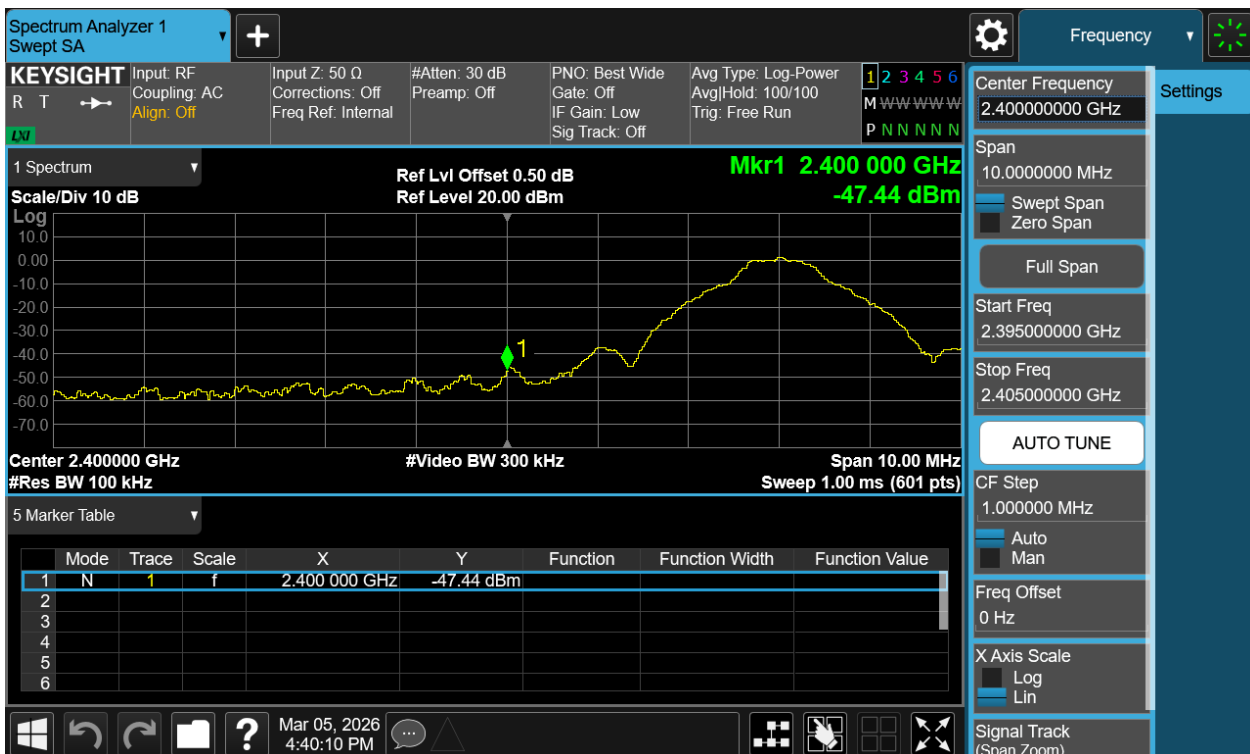
2026-03-21

Page 22 of 40

Figure 10: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2403MHz Carrier Level



Band Edge



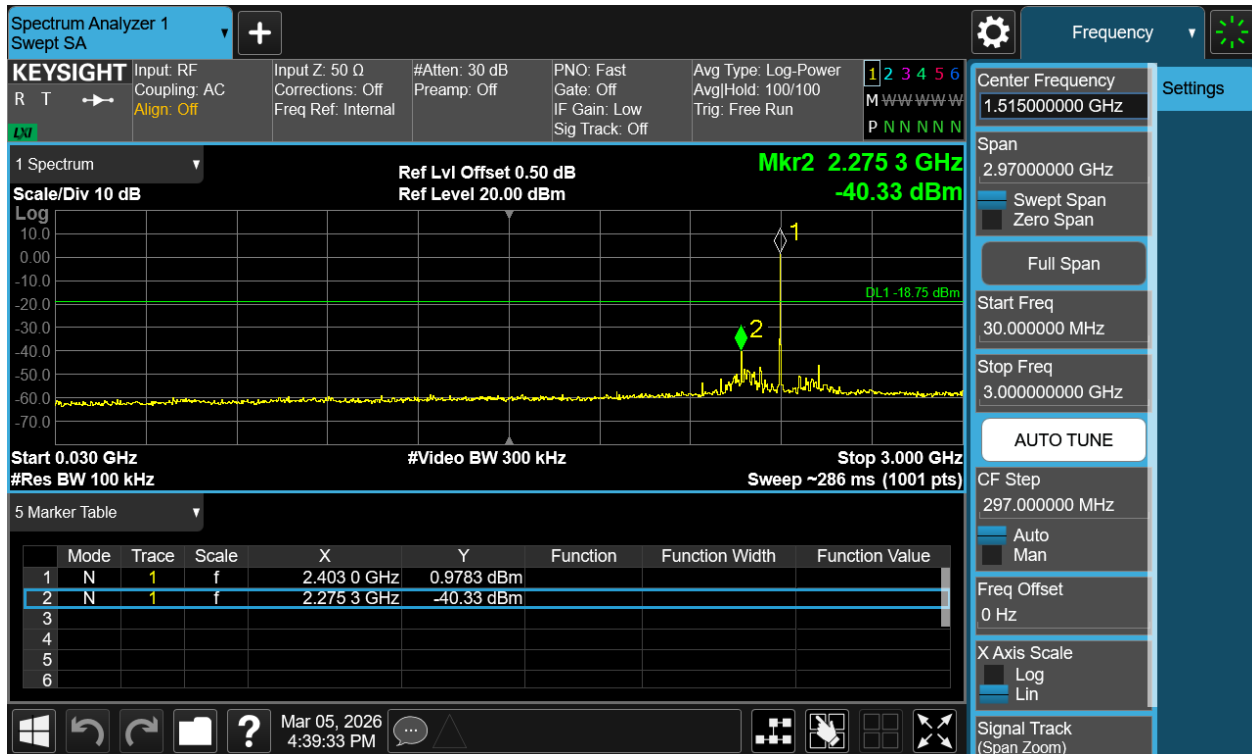
TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 23 of 40

Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.:

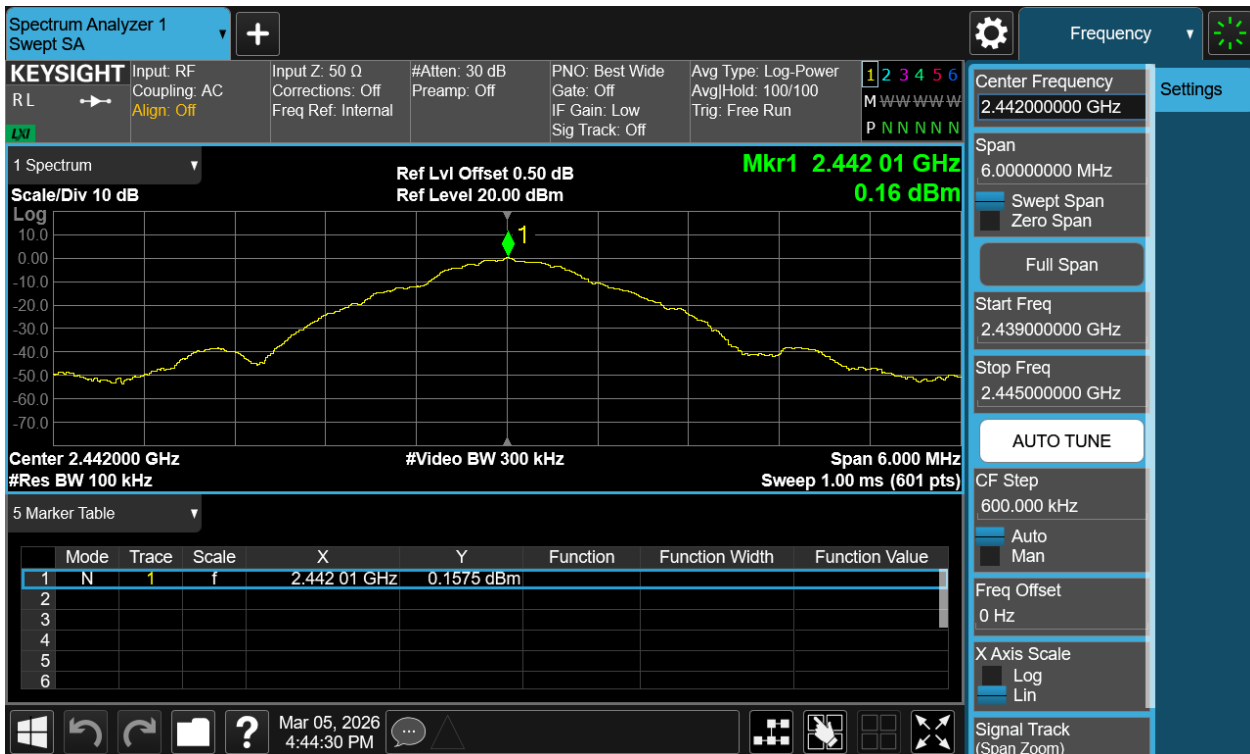
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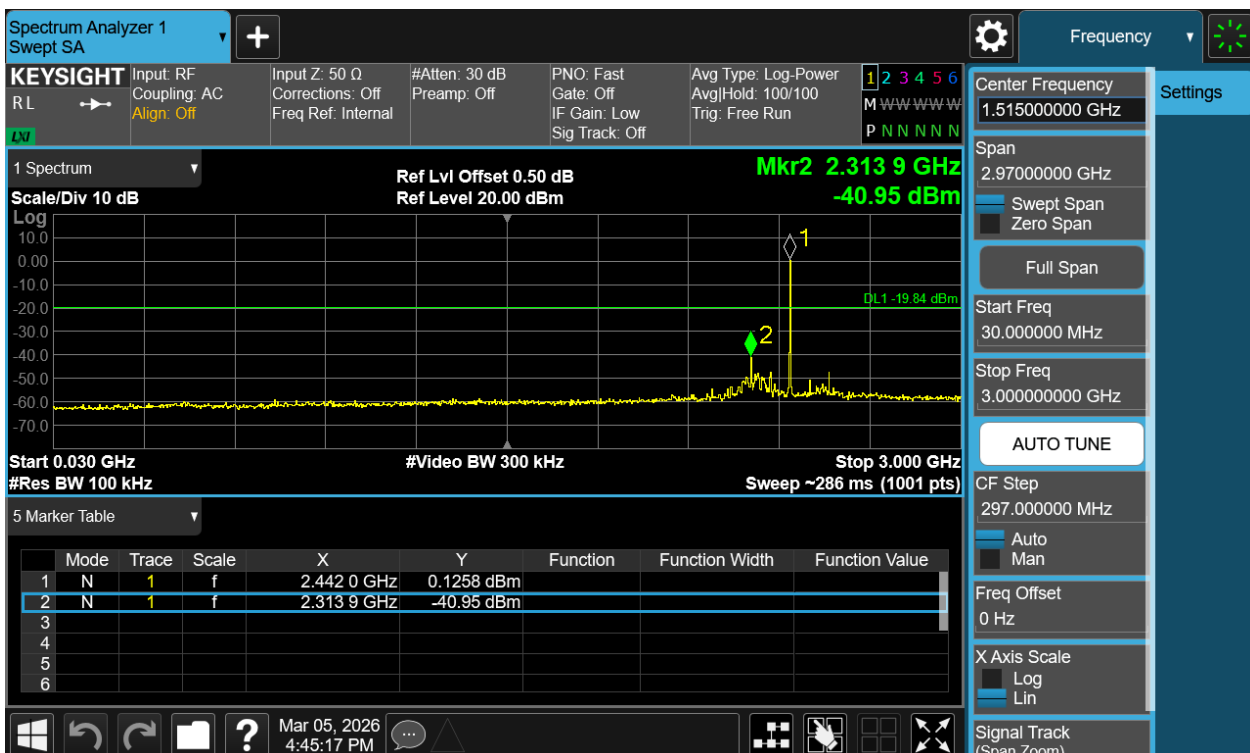
2026-03-21

Page 24 of 40

Figure 11: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2442MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

Report No.: SHE26020003-05DE Date: 2026-03-21 Page 25 of 40

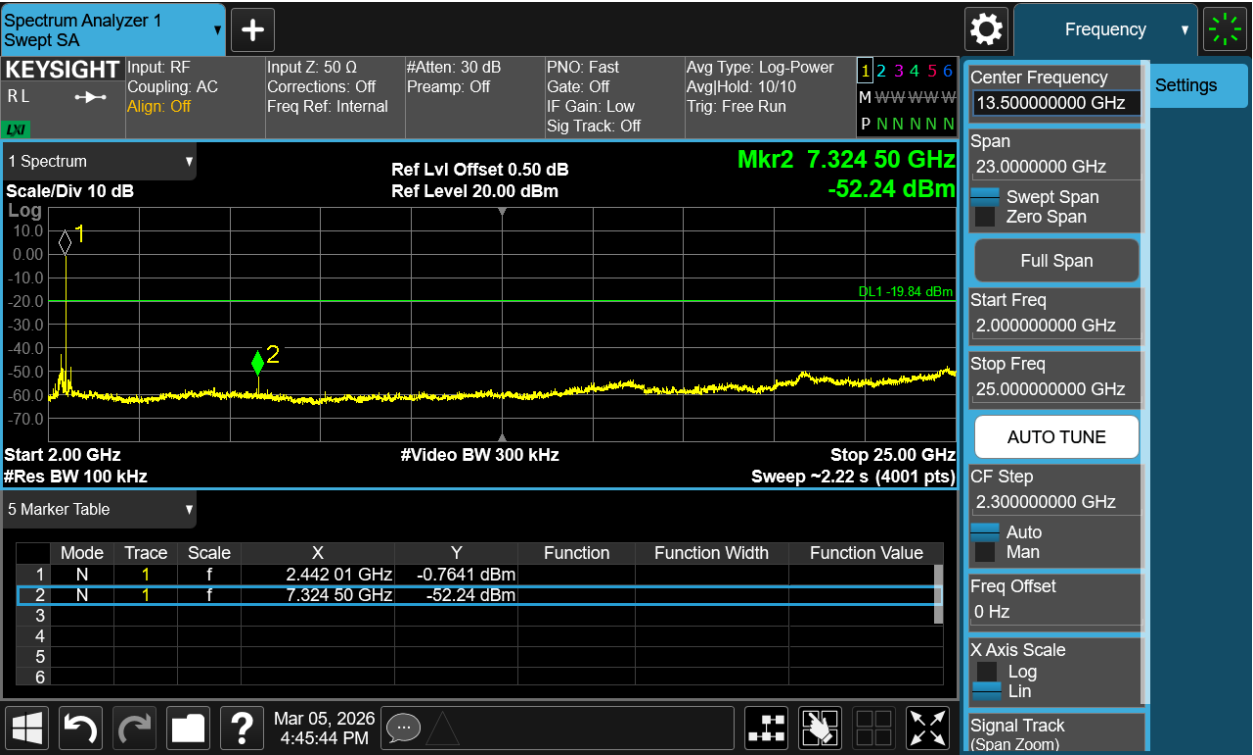
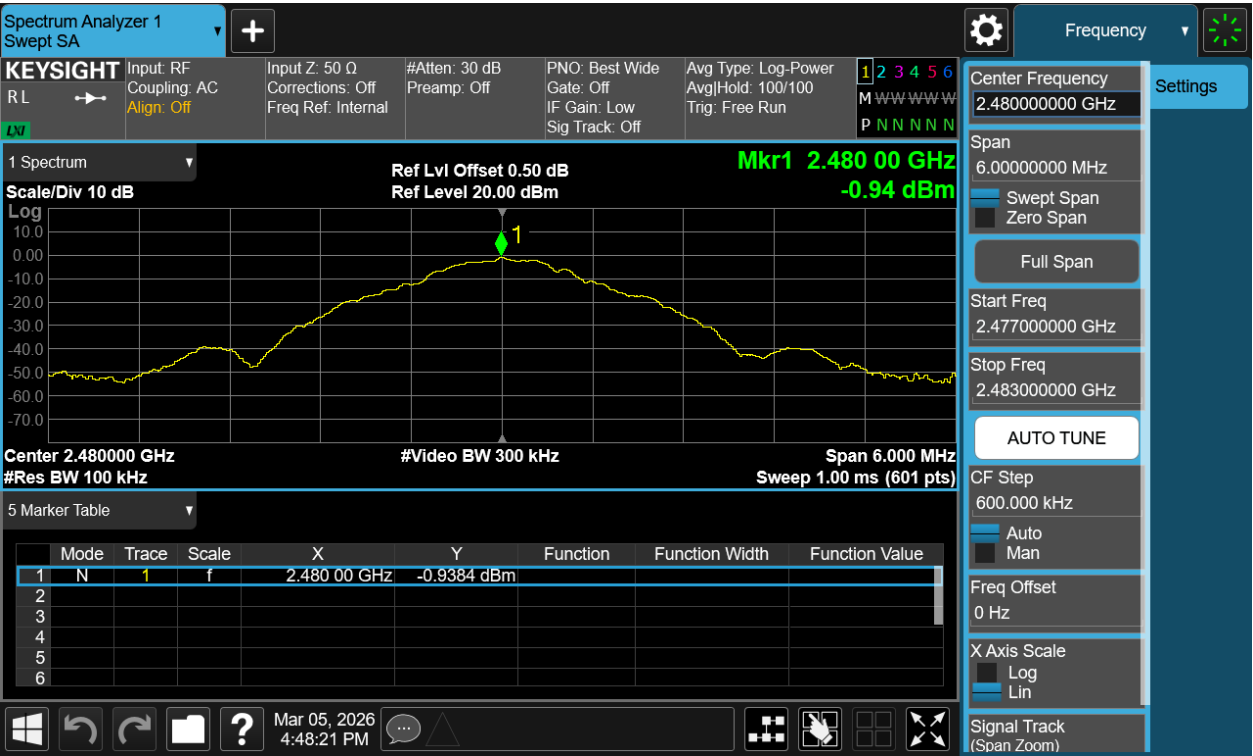


Figure 12: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz Carrier Level



TEST REPORT

Report No.:

SHE26020003-05DE

Date:

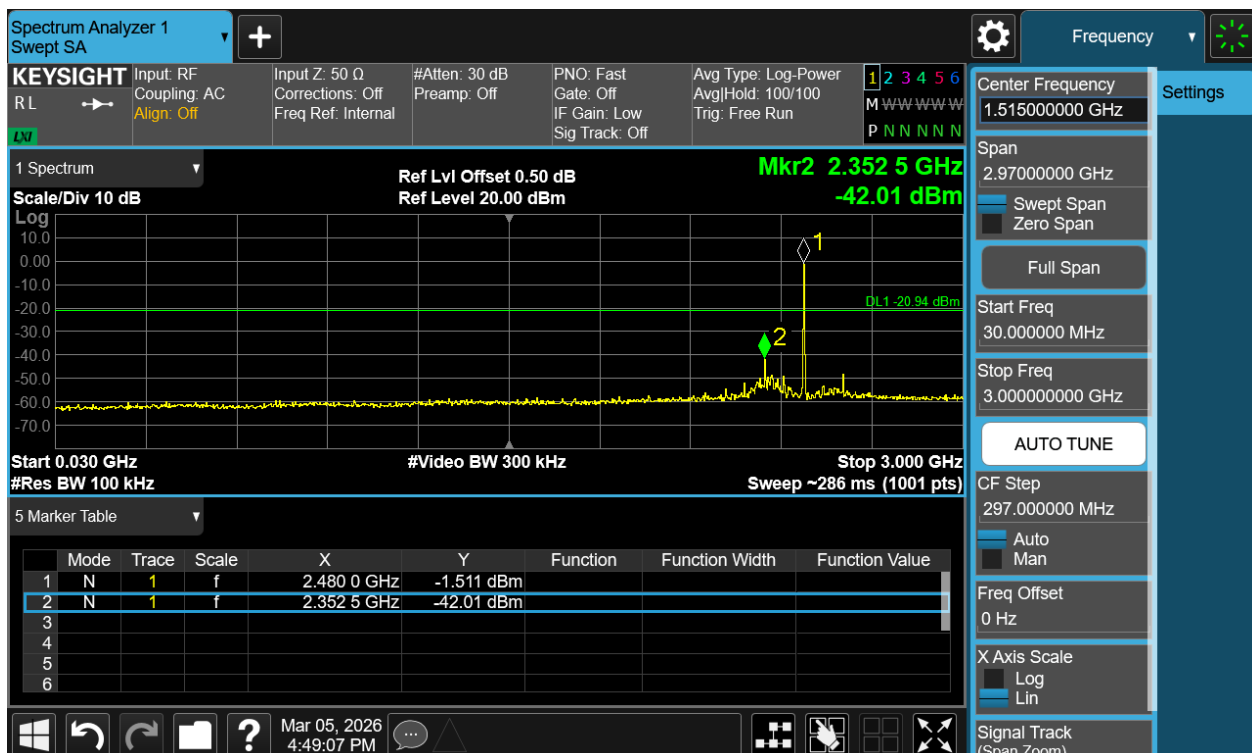
2026-03-21

Page 26 of 40

Band Edge



Conducted spurious emissions 30MHz-25GHz

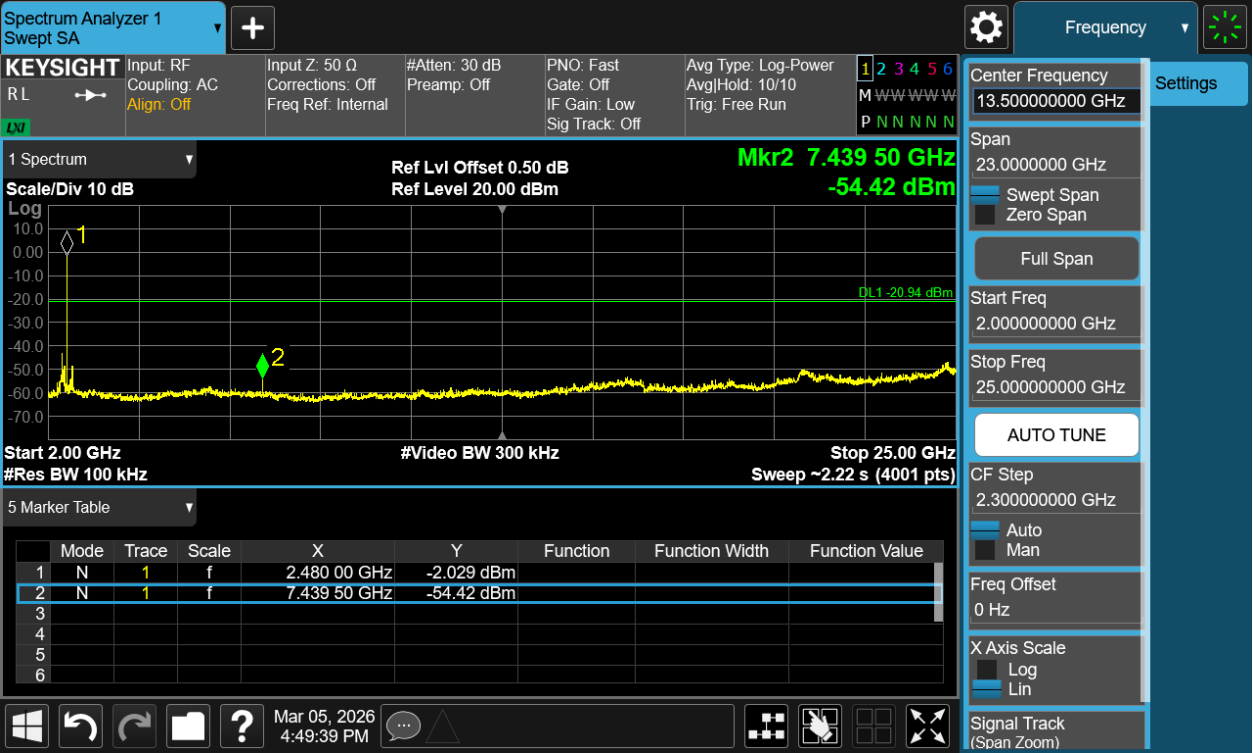


TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 27 of 40



TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 28 of 40

4.1.6 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209 RSS-GEN 8.9
Requirement	: ANSI C63.10 clause 11.12.1, KDB 558074 D01 v05r02, Clause 8.6
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A
Ambient temperature	: 22.3°C
Relative humidity	: 52.0%

Notes

Test plots please refer to the annex document "SHE26020003-05DE DATA SRD-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. In addition, During 30MHz to 1GHz test frequency range, only the worst mode data was reported in this report.
2. The spurious above 18GHz only the worst mode data (at low channel) was recorded in this report.
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.

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 29 of 40

4.1.7 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard : FCC Part 15.247(d), 15.205, 15.209
RSS-GEN 8.10
Requirement : ANSI C63.10 clause 11.12.3,
KDB 558074 D01 v05r02, Clause 8.7
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1
Ambient temperature : 22.3°C
Relative humidity : 52.0%

Notes

Test plots please refer to the annex document "SHE26020003-05DE DATA SRD-TX EXHIBIT A".

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 30 of 40

4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard	: FCC Part 15.207(a), RSS-Gen 8.8
Requirement	: ANSI C63.10 Clause 6.2
Kind of test site	: Shielded room

Test setup

Input Voltage	: which received AC 120V, 60Hz Power
Operation Mode	: A.1.a
Earthing	: Connected to GND
Ambient temperature	: 23.1°C
Relative humidity	: 45%

For details refer to following test plot.

TEST REPORT

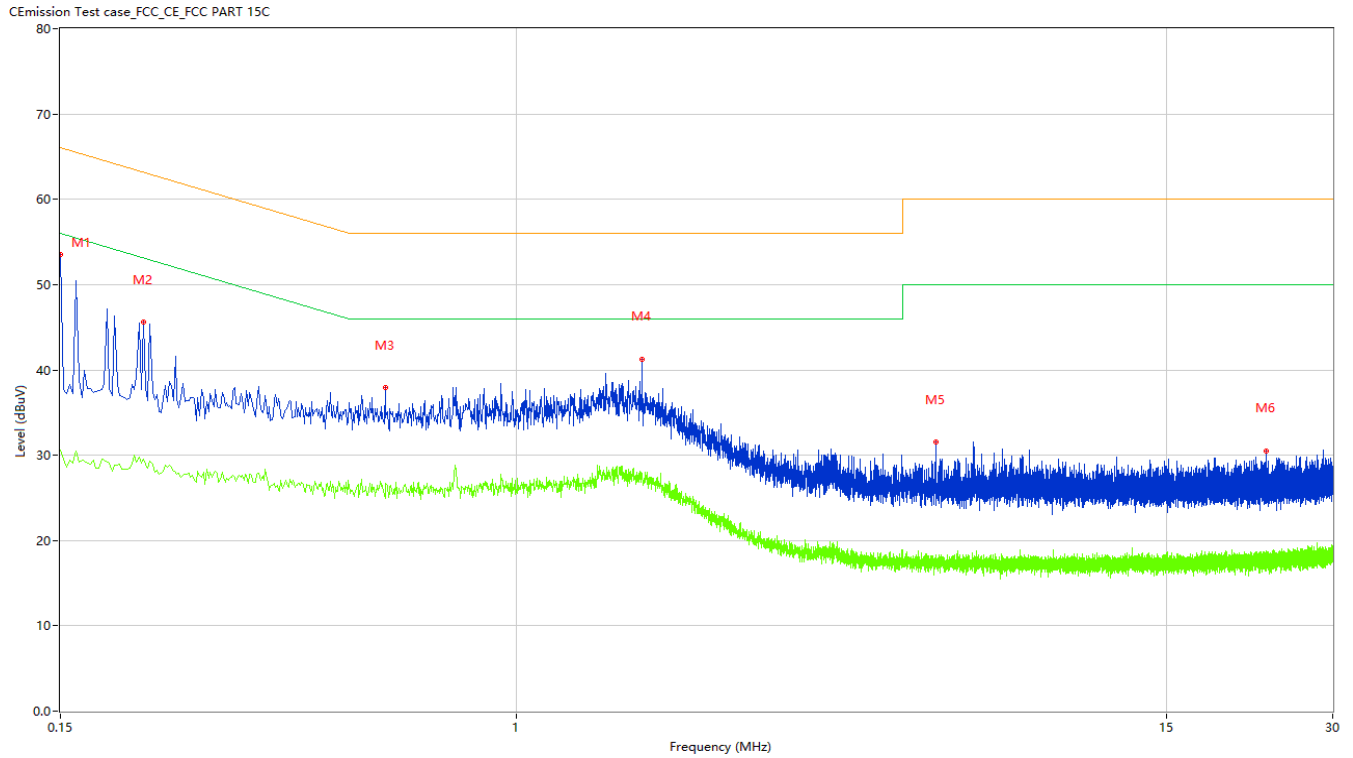
Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 31 of 40

Note: The all configurations were tested respectively, but only the worst data (at low channel) shown here.

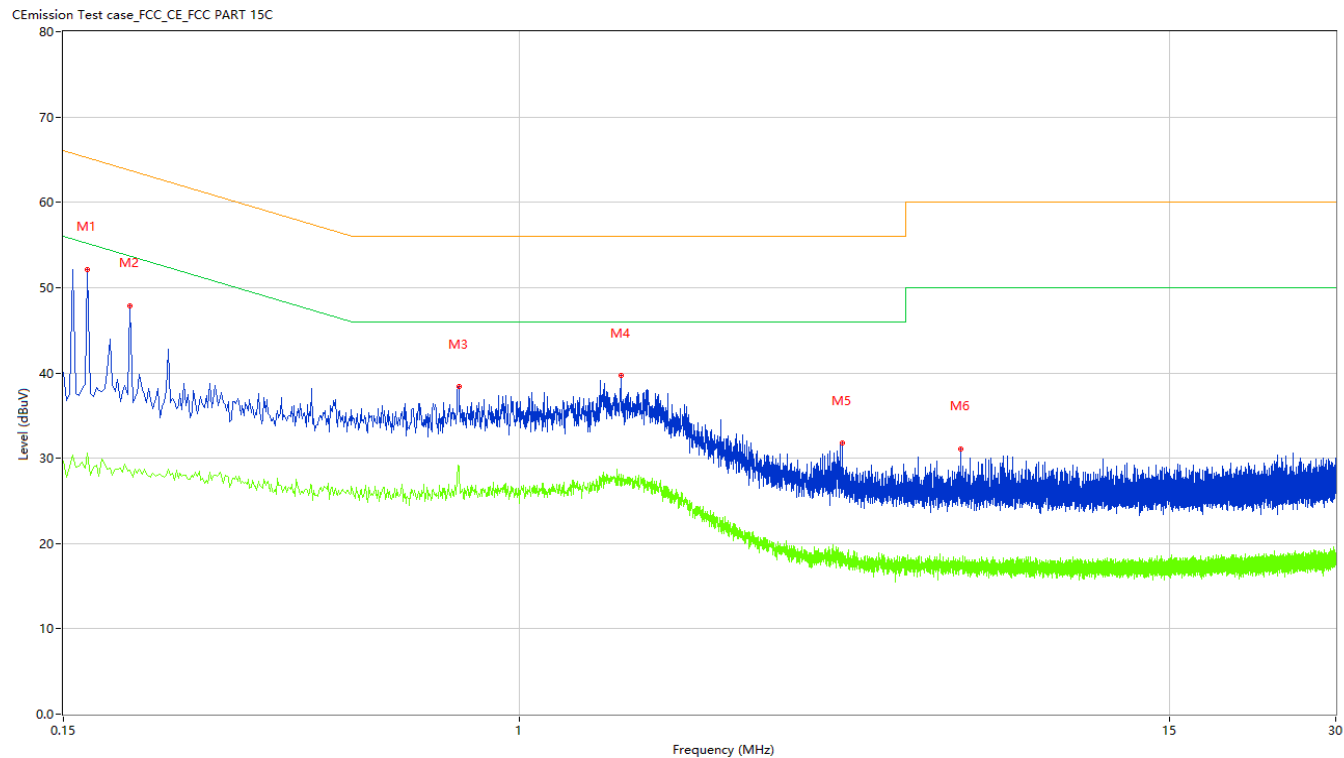
Figure 25: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	53.49	10.24	66.00	12.51	Peak	L	Pass
1**	0.150	30.63	10.24	56.00	25.37	AV	L	Pass
2	0.212	45.61	10.27	63.13	17.52	Peak	L	Pass
2**	0.212	29.59	10.27	53.13	23.54	AV	L	Pass
3	0.580	37.88	10.20	56.00	18.12	Peak	L	Pass
3**	0.580	24.96	10.20	46.00	21.04	AV	L	Pass
4	1.692	41.24	10.06	56.00	14.76	Peak	L	Pass
4**	1.692	27.50	10.06	46.00	18.50	AV	L	Pass
5	5.752	31.59	10.22	60.00	28.41	Peak	L	Pass
5**	5.752	17.56	10.22	50.00	32.44	AV	L	Pass
6	22.724	30.52	10.99	60.00	29.48	Peak	L	Pass
6**	22.724	18.33	10.99	50.00	31.67	AV	L	Pass

TEST REPORT

Figure 26: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.166	52.07	10.14	65.16	13.09	Peak	N	Pass
1**	0.166	30.65	10.14	55.16	24.51	AV	N	Pass
2	0.198	47.87	10.17	63.69	15.82	Peak	N	Pass
2**	0.198	28.54	10.17	53.69	25.15	AV	N	Pass
3	0.778	38.44	10.17	56.00	17.56	Peak	N	Pass
3**	0.778	29.08	10.17	46.00	16.92	AV	N	Pass
4	1.528	39.68	9.90	56.00	16.32	Peak	N	Pass
4**	1.528	28.17	9.90	46.00	17.83	AV	N	Pass
5	3.840	31.77	10.07	56.00	24.23	Peak	N	Pass
5**	3.840	18.40	10.07	46.00	27.60	AV	N	Pass
6	6.300	31.12	10.20	60.00	28.88	Peak	N	Pass
6**	6.300	17.21	10.20	50.00	32.79	AV	N	Pass

TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 33 of 40

5 Appendixes

5.1 External Photo of the Sample



Front of the sample



Rear of the sample

TEST REPORT

Report No.:

SHE26020003-05DE

Date:

2026-03-21

Page 34 of 40



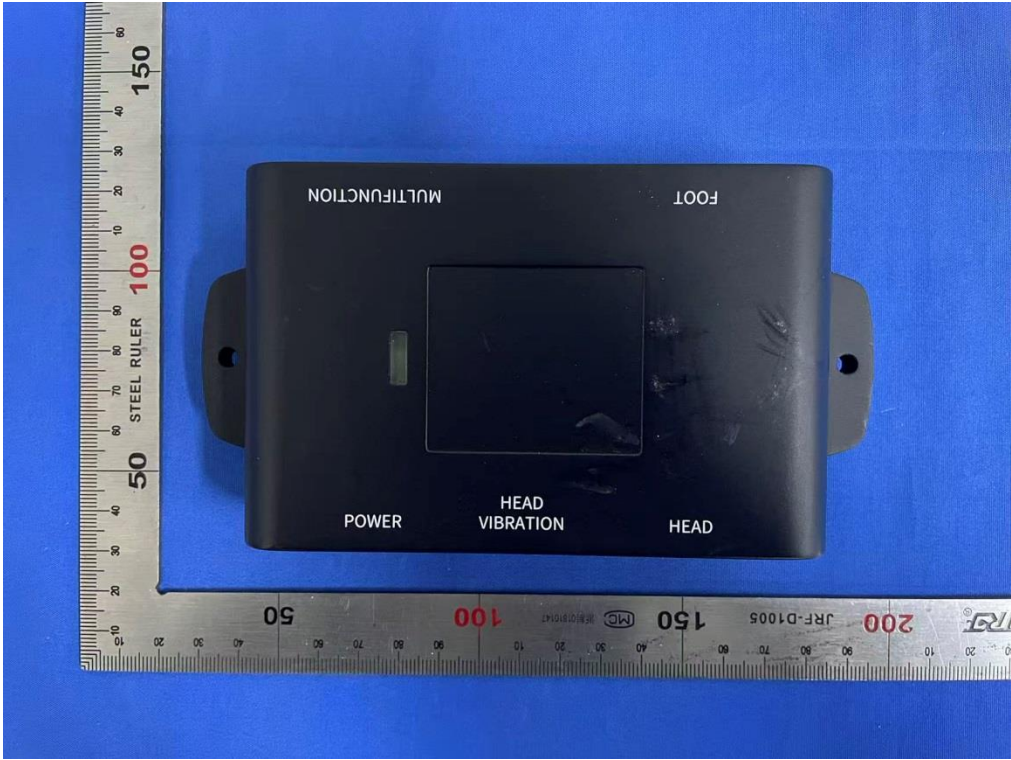
Left of the sample



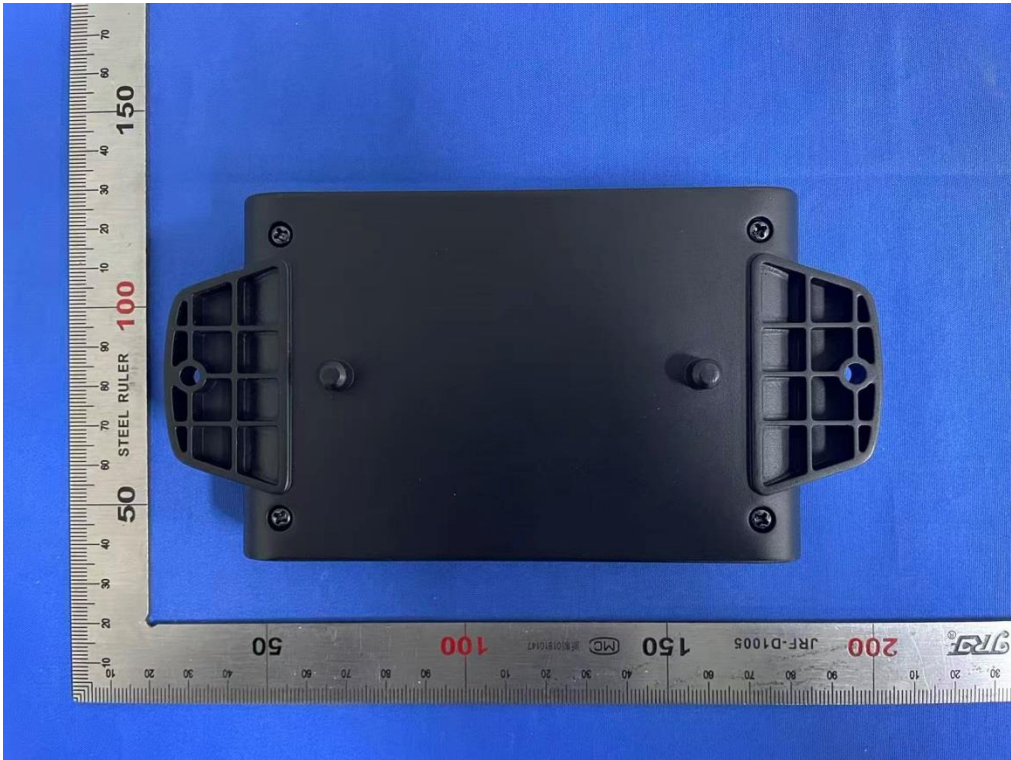
Right of the sample

TEST REPORT

Report No.: SHE26020003-05DE Date: 2026-03-21 Page 35 of 40



Top of the sample

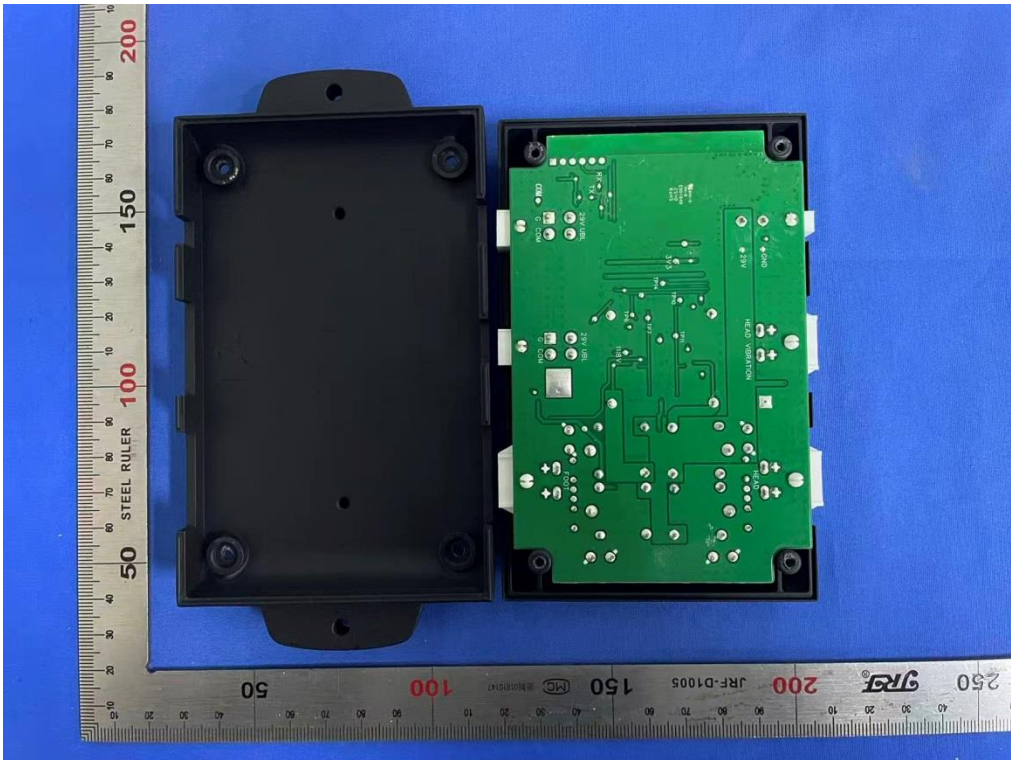


Bottom of the sample

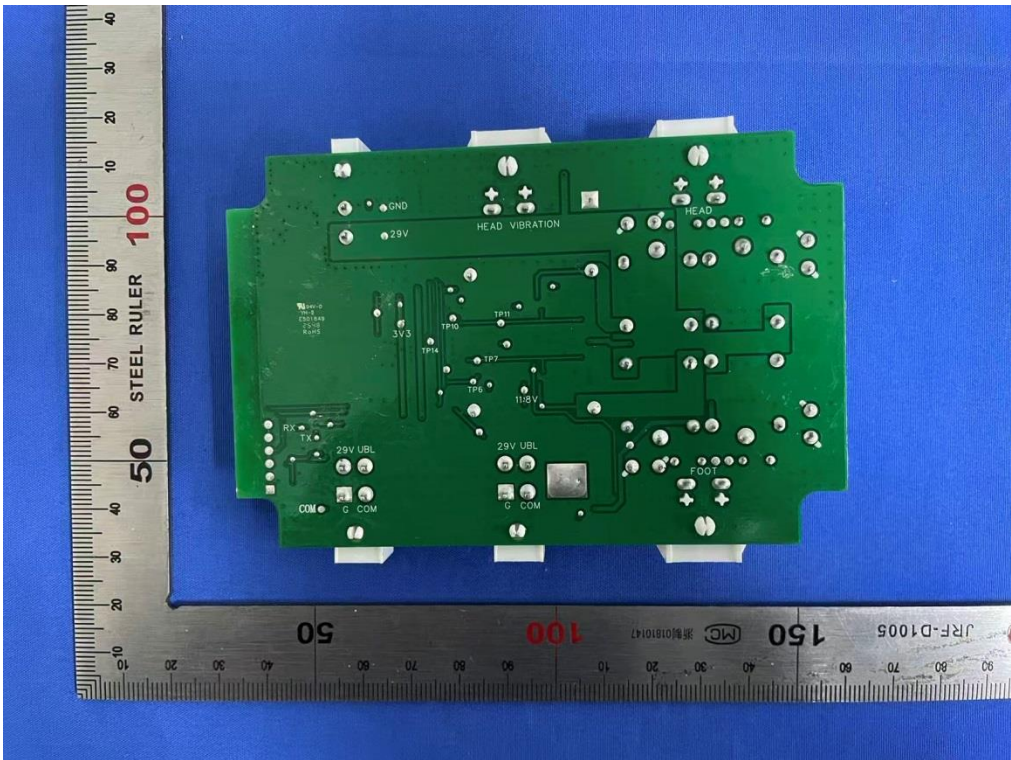
TEST REPORT

Report No.: SHE26020003-05DE Date: 2026-03-21 Page 36 of 40

5.2 Internal Photo of the Sample

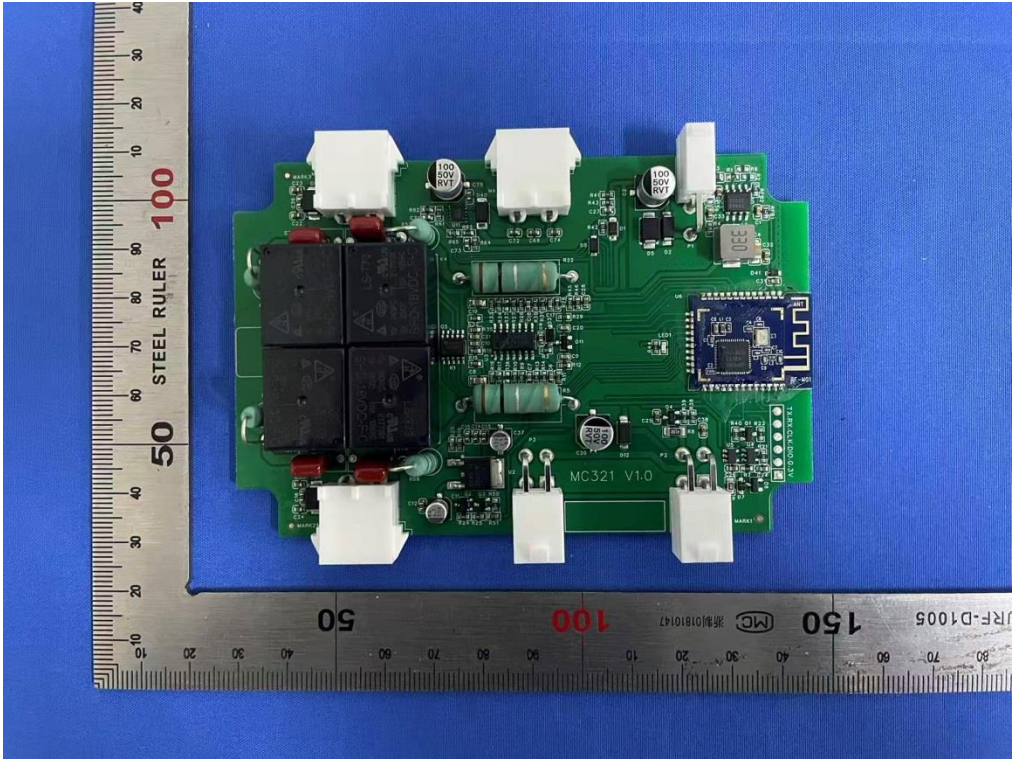


Open of the sample

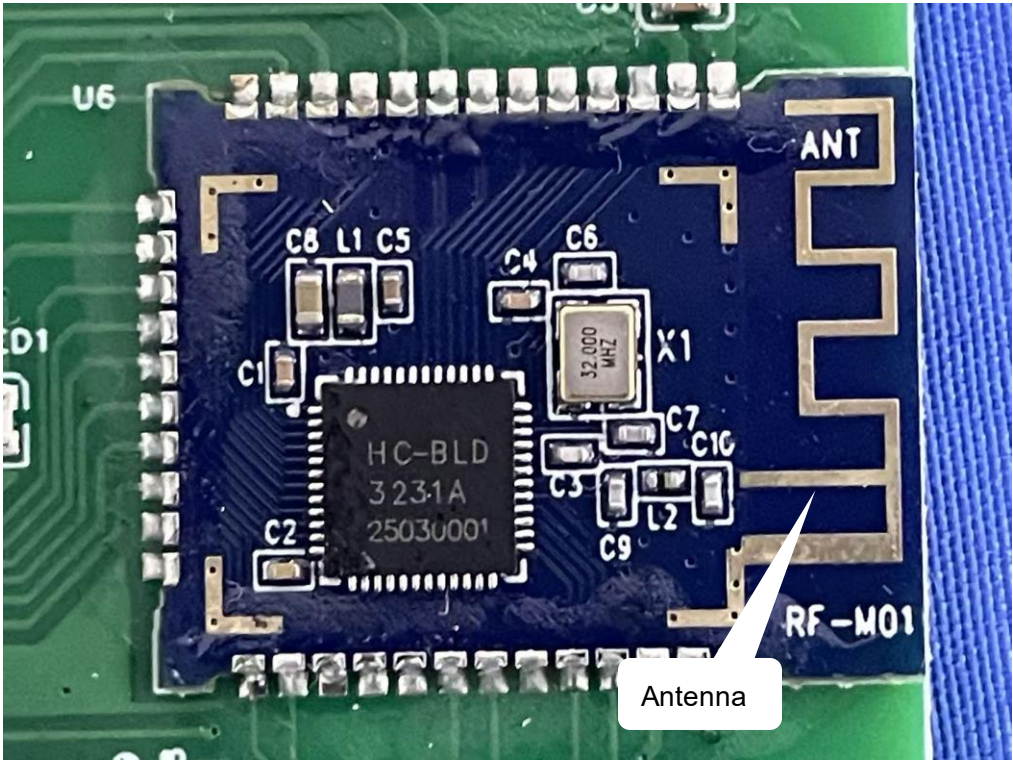


Internal photo-1 of the sample

TEST REPORT



Internal photo-2 of the sample



Antenna position of the sample

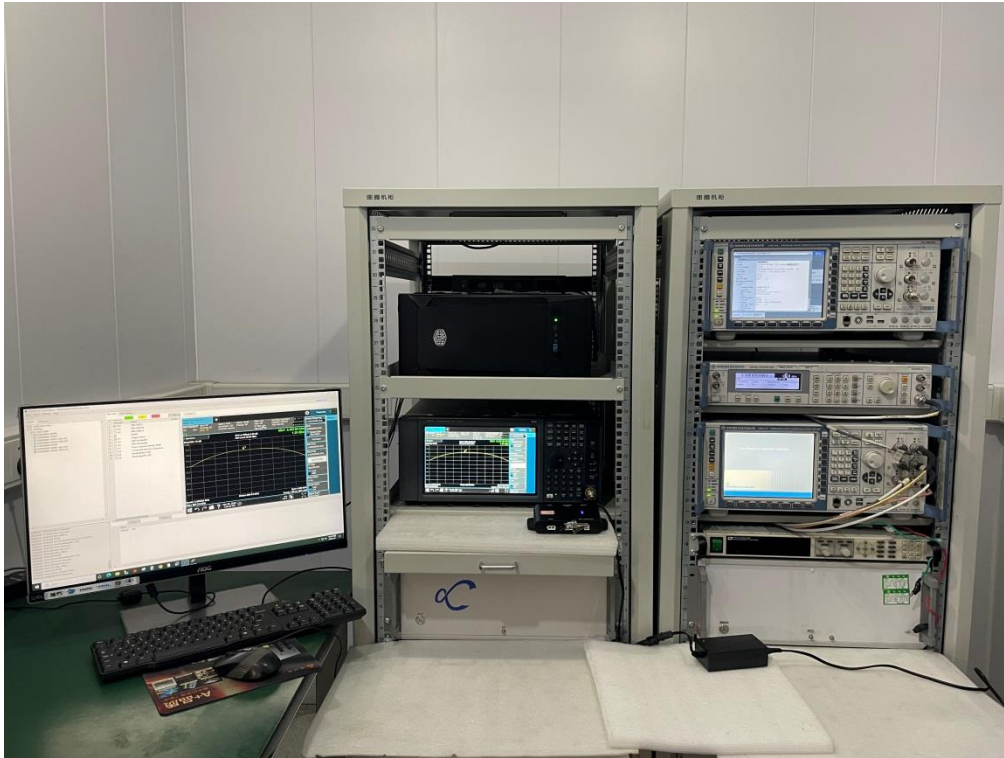
TEST REPORT

Report No.: SHE26020003-05DE

Date: 2026-03-21

Page 38 of 40

5.3 Set-up for Conducted RF test at Antenna Port



5.4 Set-up for Conducted Emissions on AC Mains



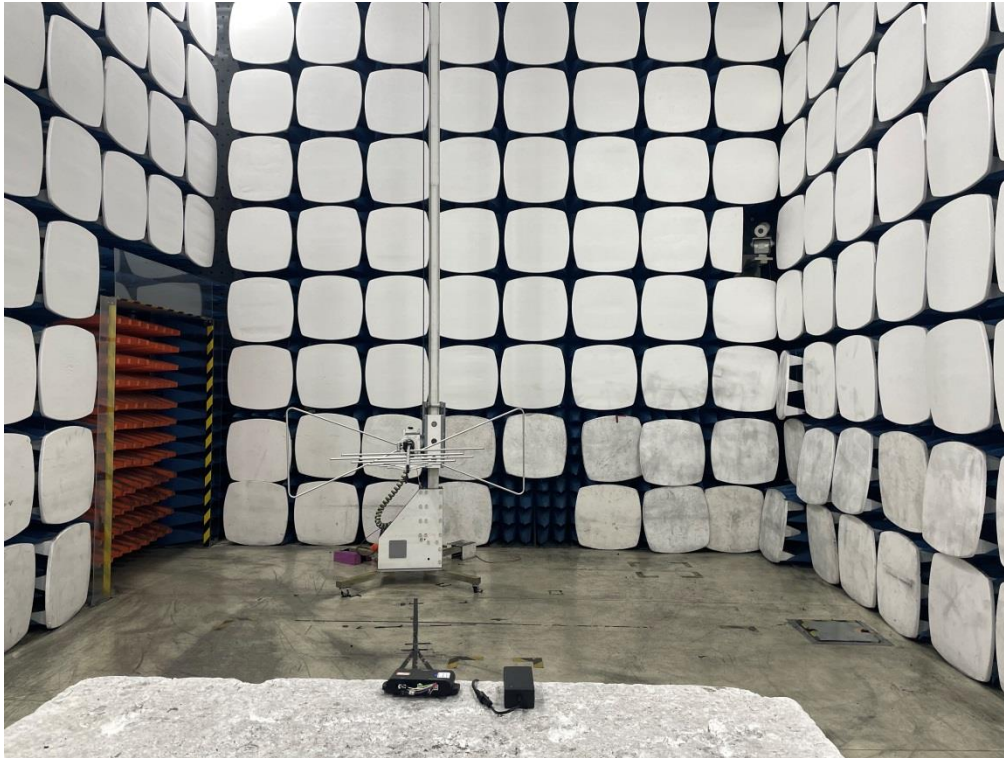
TEST REPORT

Report No.: SHE26020003-05DE

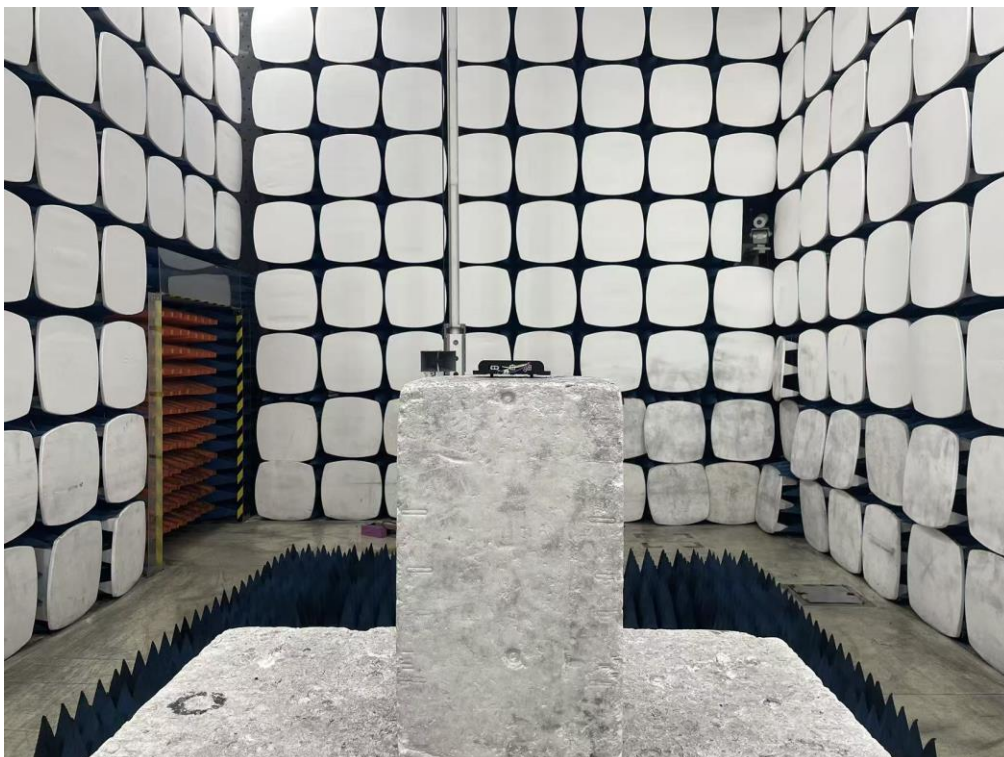
Date: 2026-03-21

Page 39 of 40

5.5 Set-up for Spurious Emissions below 1GHz



5.6 Set-up for Spurious Emissions above 1GHz



TEST REPORT

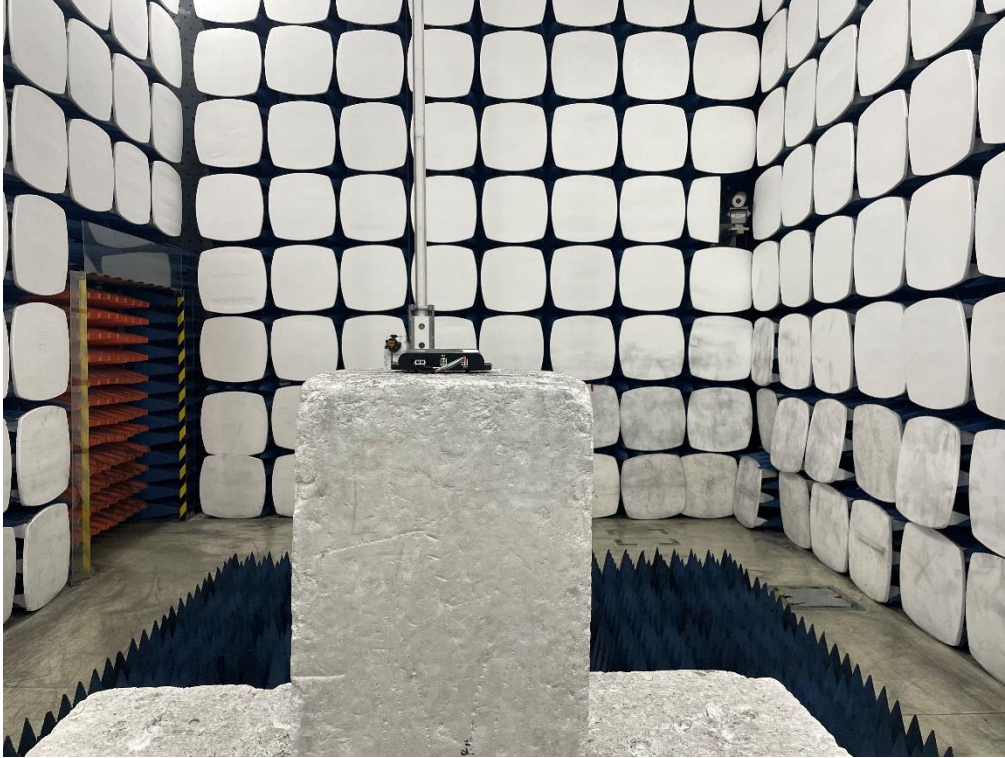
Report No.:

SHE26020003-05DE

Date:

2026-03-21

Page 40 of 40



End of the report