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FCC 15.225
13.56MHz Test Report

for

EPS Bio Technology Corp.

No. 8 , R&D Rd. III , Hsinchu Science Park, Hsinchu County, Taiwan 30076

Product Name : EASYMAX MU Self-Monitoring Blood Glucose System

Model Name : EASYMAX MU

FCC ID : 2AQBR-D046

Prepared by: : AUDIX Technology Corporation, EMC Department

Testing Laboratory
1724

The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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TEST REPORT

Applicant	:	EPS Bio Technology Corp.
Manufacturer	:	EPS Bio Technology Corp.
EUT Description		
(1) Product	:	EASYMAX MU Self-Monitoring Blood Glucose System
(2) Model	:	EASYMAX MU
(3) Power Supply	:	DC 3V

Applicable Standards:

47 CFR FCC Part 15 Subpart C

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.
Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2026. 07. 21

Reviewed by: Tina Huang (Tina Huang/Deputy Manager)

Approved by: Johny Hsueh (Johnny Hsueh/Deputy Manager)

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2026. 07. 21	Original Report	EM-F260355

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2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	**N/A, Note 3**
15.225(a)(b)(c)	Radiation Emission (In-Band)	**PASS**
15.225(d)/15.209	Radiation Emission (Out-Band)	**PASS**
15.215 (c)	20dB Bandwidth	**PASS**
15.225(e)	Frequency Stability	**PASS**
15.203	Antenna Requirement	**Compliance**

Note: 1. Decision rule according to the limit of the test standard chapter, the test value is lower than the limit specified in the test chapter, and it is judged as Pass.
2. The uncertainties value is not used in determining the result.
3. The EUT only employs battery power for operation, so it is unnecessary to test.

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3. GENERAL INFORMATION

The EUT's information described in this section are all provided by the applicant.

3.1. Description of Application

Applicant	EPS Bio Technology Corp. No. 8 , R&D Rd. III , Hsinchu Science Park, Hsinchu County, Taiwan 30076
Manufacturer	EPS Bio Technology Corp. No. 8 , R&D Rd. III , Hsinchu Science Park, Hsinchu County, Taiwan 30076
Product	EASYMAX MU Self-Monitoring Blood Glucose System
Model	EASYMAX MU

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3.2. Description of EUT

Test Model	EASYMAX MU
Serial Number	N/A
Power Rating	DC 3V (The operating voltage of the EUT is DC 2.65 - 3V).
RF Features	NFC
Transmit Type	1T1R
Test Sample	Sample No. / Test Item / Firmware: 02 / RSE/Conducted / N/A
Sample Status	Trial sample
Date of Receipt	2026. 06. 09
Date of Test	2026. 06. 22 ~ 23
Interface Ports of EUT	None
Accessories Supplied	None

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information…etc are provided by customer.

3.3. Reference Test Guidance

ANSI C63.10-2020

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3.4. Antenna Information

No.	Antenna Model Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	EMMU	EPS Bio Technology Corp.	Coil (PCB antenna)	13.56	N/A

3.5. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation
NFC	13.56	1	ASK

3.6. Description of Key Components

None

3.7. Test Configuration

Item		Test Mode
Radiated Test Case	Radiated Spurious Emission (In-Band)	TX 13.56MHz
	Radiated Spurious Emission (Out-Band) Note1	TX 13.56MHz
Conducted Test Case	20dB Bandwidth	TX 13.56MHz
	Frequency Stability	TX 13.56MHz

Note : ☐Mobile Device ■Portable Device
and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:
■Lie ☐Side ☐Stand

3.8. Tested Supporting System List

3.8.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	Approval	Remarks
A.	Mobile Phone	Realme	GT8 pro	N/A	N/A	Provided by LAB
B.	DC Power Supply	TOP WARD	3303A	N/A	N/A	Provided by LAB

3.8.2. Cable Lists

No.	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Power Cable	2	0.8	No	0	Provided by LAB

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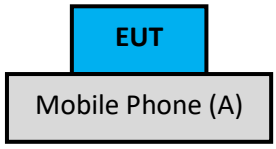
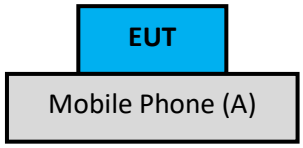
3.9. Setup Configuration

3.9.1. EUT Configuration for Radiated Emission

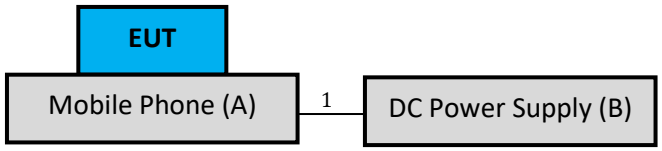


3.9.2. EUT Configuration for RF Conducted Test Items

- For 20dB Bandwidth Test Item



- For Frequency Stability Test Item



3.10. Operating Condition of EUT

To set the EUT to NFC function under continuous transmission

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3.11.Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 (1) No.1 3m Semi Anechoic Chamber

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3.12.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test	☐	No. 7 Shielded Room	30MHz-200MHz, 3m, Horizontal	±3.7dB
			200MHz-1000MHz, 3m, Horizontal	±3.4dB
	☐	No. 8 Shielded Room	30MHz-200MHz, 3m, Vertical	±3.7dB
			200MHz-1000MHz, 3m, Vertical	±3.4dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.2dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±3.9dB
			30MHz-200MHz, 3m, Vertical	±4.6dB
			200MHz-1000MHz, 3m, Vertical	±4.3dB
			1GHz-6GHz, 3m	±4.6dB
			6GHz-18GHz, 3m	±4.1dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.4dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.9dB
			200MHz-1000MHz, 3m, Vertical	±5.1dB
			1GHz-6GHz, 3m	±4.4dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.2dB
			200MHz-1000MHz, 3m, Horizontal	±4.1dB
			30MHz-200MHz, 3m, Vertical	±4.9dB
			200MHz-1000MHz, 3m, Vertical	±4.6dB
			1GHz-6GHz, 3m	±4.4dB
			6GHz-18GHz, 3m	±4.0dB
	Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m	±3.6dB

Remark：Uncertainty = kuc(y)

Test Item	Uncertainty
20dB Bandwidth	±0.48%
Frequency Stability	±0.78ppm

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4. MEASUREMENT EQUIPMENT LIST

4.1. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9010B-526	MY57410128	2026.05.11	1 Year
2.	Test Receiver	R&S	ESCI	100556	2026.05.15	1 Year
3.	Microwave Amplifier	HP	8447D	2944A06305	2025.12.11	1 Year
4.	Bilog Antenna	TESEQ	CBL6112D	33821	2026.02.06	1 Year
5.	Loop Antenna	TESEQ	HLA 6121	60478	2026.06.03	1 Year
6.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2026.01.02	1 Year
7.	Coaxial Cable	HUBER+SUHNER	RG223/U	RE-33	2026.06.09	1 Year
8.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2026.04.08	1 Year
9.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.2. RF Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9030B	MY61330403	2025.12.12	1 Year
2.	Programmable Temperature & Humidity Chamber	GIANT	GTH-150-40 -CP-AR	MAA1505-008	2025.07.07	1 Year
3.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2026.04.08	1 Year
4.	Probe Antenna	EMCO	7405	9011-1836	N.C.R.	N.C.R.

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5. CONDUCTED EMISSION

The conducted emission voltage limits are not required for EUT which only employ DC power for operation

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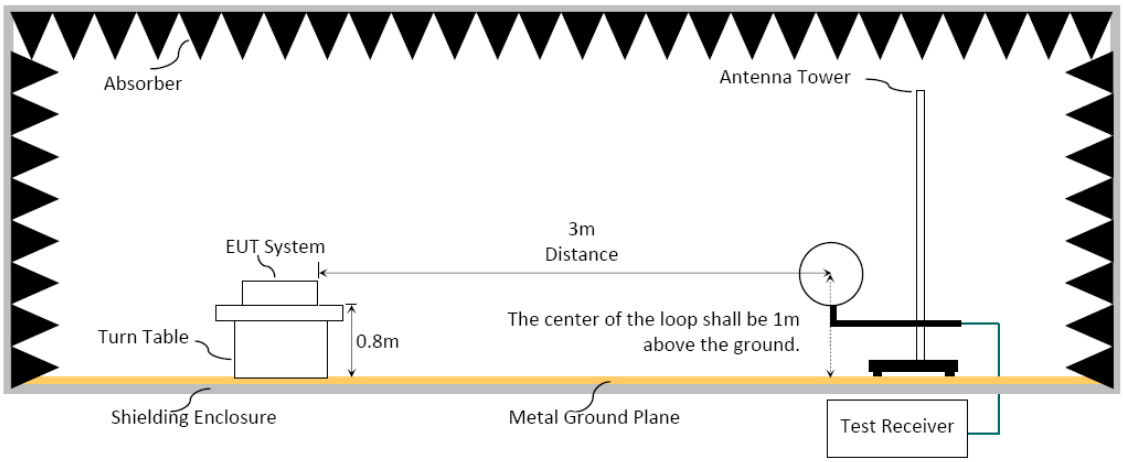
6. RADIATED EMISSION (IN-BAND)

6.1. Block Diagram of Test Setup

6.1.1. Block Diagram of EUT

Indicated as section 3.9

6.1.2. Setup Diagram for 9kHz-30MHz



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6.2. Radiated Emission Limits

Frequency (MHz)	Distance (m)	Limits	
		μV/m	dBμV/m
13.553-13.567	30	15848	84
	3	1584893	124
13.410 -13.553 and 13.567-13.710	30	334	50.50
	3	33381	90.50
13.110 -13.410 and 13.710-14.010	30	106	40.5
	3	10592	80.50

Remark：(1) dBμV/m = 20 log (μV/m)
(2) 15848uV/m= 84dBuV/m=84+40log(30m/3m)=124dBuV/m
334uV/m= 50.5dBuV/m=50.5+40log(30m/3m)=90.5dBuV/m
106uV/m= 40.5dBuV/m=40.5+40log(30m/3m)=80.5dBuV/m

6.3. Test Procedure

Frequency Range 9kHz~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 C63.10-2020 regulation.

(1) RBW = 9kHz with peak and average detector.
(2) Detector: average and peak (10kHz-490kHz)
Q.P. (490kHz-30MHz)

6.4. Test Results

Please refer to Appendix A.

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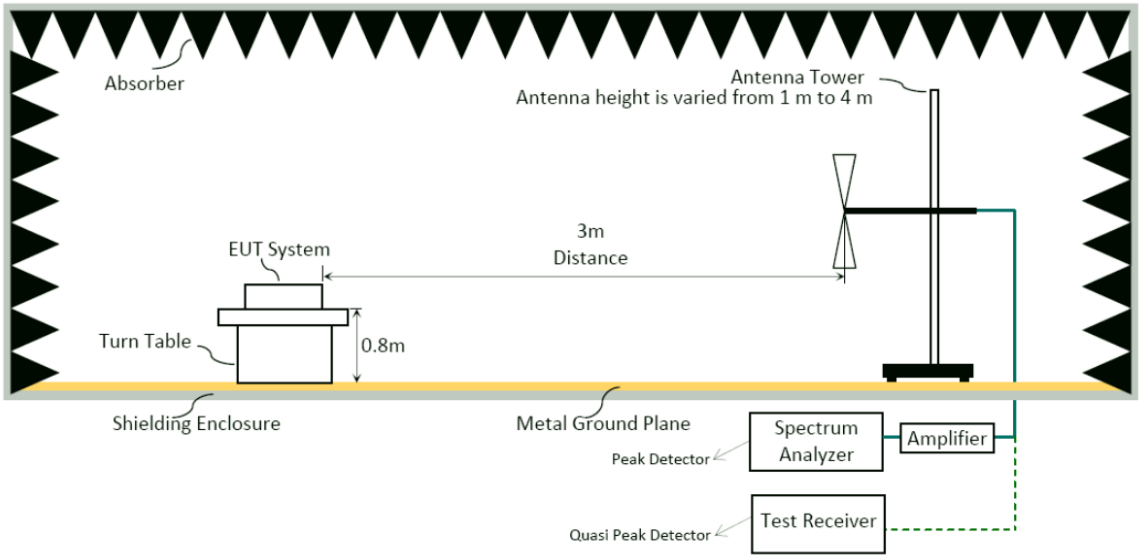
7. RADIATED EMISSION (OUT-BAND)

7.1. Block Diagram of Test Setup

7.1.1. Block Diagram of EUT

Indicated as section 3.9

7.1.2. Setup Diagram for 30-1000 MHz



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7.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205 must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance (m)	Limits	
		dBμV/m	μV/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) dBμV/m = 20 log (μV/m)
(2) The tighter limit applies to the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) Fundamental and emission fall within operation band are exempted from this section.
(5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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7.4. Test Procedure

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2020 regulation.

Frequency Range 30MHz~1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

(1)RBW = 120KHz

(2)VBW ≥ 3 x RBW.

(3)Detector = Peak.

(4)Sweep time = auto.

(5)Trace mode = max hold.

(6)Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

7.5. Measurement Result Explanation

Peak Emission Level(dBμV/m)=Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dBμV).

7.6. Test Results

Please refer to Appendix A.

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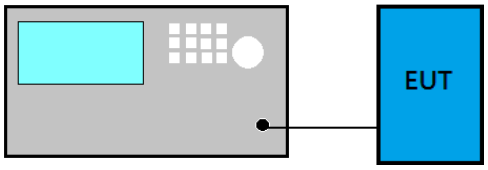
8. 20dB BANDWIDTH

8.1. Block Diagram of Test Setup



8.2. Specification Limits

The 20dB bandwidth shall be specified in operating frequency band.

8.3. Test Procedure

Following measurement procedure:

(1) Set RBW to 1kHz.
(2) Set the video bandwidth (VBW) ≥ 3 × RBW.
(3) Detector = Peak.
(4) Trace mode = max hold.
(5) Sweep = auto couple.
(6) Allow the trace to stabilize.
(7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

8.4. Test Results

Please refer to Appendix A

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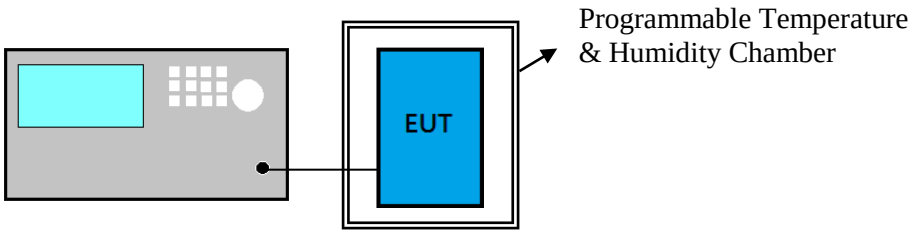
9. FREQUENCY STABILITY

9.1. Block Diagram of Test Setup



9.2. Specification Limits

The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of -20degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degree C.

9.3. Test Procedure

The device operating in the 13.553-13.567MHz shall maintain the carrier frequency within 0.01% of the operating frequency over the temperature variation of -20 degrees to +50 degree C at normal supply voltage.

9.4. Test Results

Please refer to Appendix A

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10. DEVIATION TO TEST SPECIFICATIONS

【NONE】

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APPENDIX A

TEST DATA AND PLOTS

(Model: EASYMAX MU)

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A.1 RADIATED EMISSION (IN-BAND)

Test Date	2026/06/22	Temp./Hum.	24℃/54%
Test Voltage	DC 3V (via Battery)	Tested by	Sean Wang

Antenna Polarization: X-axis

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
13.567	21.64	0.49	33.63	55.76	124.00	68.24	QP

Antenna Polarization: Y-axis

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
13.56	21.64	0.49	26.91	49.05	124.00	74.95	QP

Antenna Polarization: Z-axis

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
13.56	21.64	0.49	38.11	60.24	124.00	63.76	QP

Note: All emissions are lower than the ambient level cannot be measured.

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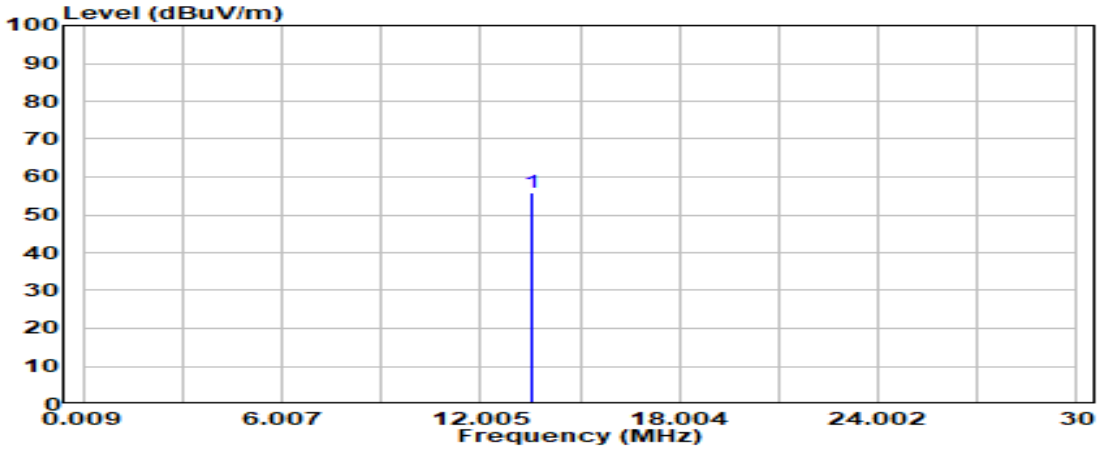
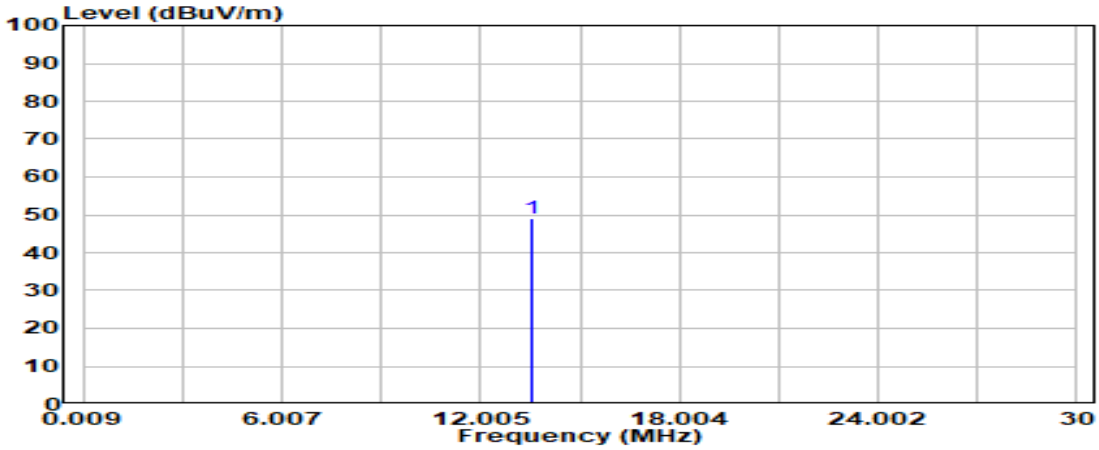
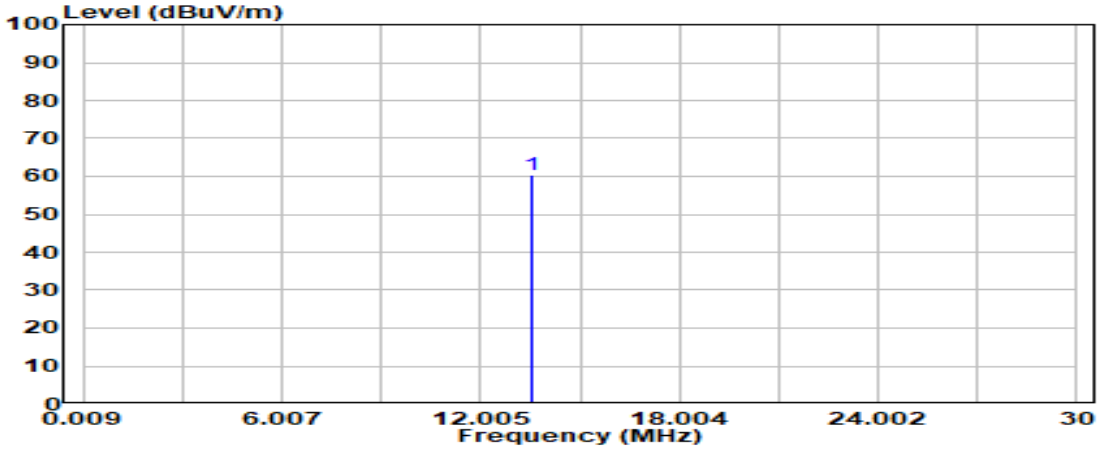
Antenna Polarization: X-axis



Antenna Polarization: Y-axis



Antenna Polarization: Z-axis



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A.2 RADIATED EMISSION (OUT-BAND)

Test Date	2026/06/22	Temp./Hum.	24℃/54%
Test Voltage	DC 3V (via Battery)	Tested by	Sean Wang

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

All emissions are lower than the ambient level cannot be measured.

A.2.1.2 Frequency 30MHz ~ 1000MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.000	22.00	1.28	26.47	31.26	28.06	40.00	11.94	Peak
102.000	17.42	2.32	26.25	34.70	28.20	43.50	15.30	Peak
405.000	22.18	5.56	26.48	32.59	33.85	46.00	12.15	Peak
711.000	25.13	7.38	27.34	33.44	38.60	46.00	7.40	Peak
832.000	25.75	8.21	27.15	33.82	40.63	46.00	5.37	Peak
980.000	27.26	9.16	26.72	33.34	43.04	54.00	10.96	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.000	22.00	1.28	26.47	31.33	28.14	40.00	11.86	Peak
108.000	17.88	2.40	26.21	34.72	28.79	43.50	14.71	Peak
330.000	20.43	4.74	25.88	32.04	31.33	46.00	14.67	Peak
634.000	24.86	6.95	27.35	33.34	37.79	46.00	8.21	Peak
859.000	26.11	8.42	27.08	33.20	40.65	46.00	5.35	Peak
996.000	27.39	9.25	26.67	33.50	43.47	54.00	10.53	Peak

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A.3 20dB BANDWIDTH

Test Date	2026/06/23	Temp./Hum.	22℃/42%
Test Voltage	DC 3V (via Battery)	Tested by	Sean Wang

A.4.1.1 20dB Bandwidth Result

Centre Frequency (MHz)	20 dB Bandwidth
13.56	2.118kHz

A.4.1.2 Measurement Plots

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A.4 FREQUENCY STABILITY

Test Date	2026/06/23	Temp./Hum.	22℃/42%
Test Normal Voltage	DC 2.65V or DC 3V (Via DC Power Supply)	Tested by	Sean Wang

The operating voltage of the EUT is DC 2.65 ~3–3 V.

Mode: 0 Minute					
Temperature(℃)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.55934	13.55939	13.55946	13.55953	13.55977
Error (%)	-0.00487	0.00450	-0.00398	-0.00347	-0.00170
Temperature(℃)	20	30	40	50	
Voltage	DC 2.65V	DC 3V	DC 3V	DC 3V	
Frequency(MHz)	13.55989	13.55966	13.55982	13.55987	
Error (%)	-0.00081	0.00251	-0.00133	-0.00096	

Mode: 2 Minute					
Temperature(℃)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.55967	13.55988	13.56030	13.55961	13.55982
Error (%)	-0.00243	0.00088	0.00221	-0.00288	-0.00136
Temperature(℃)	20	30	40	50	
Voltage	DC 2.65V	DC 3V	DC 3V	DC 3V	
Frequency(MHz)	13.55976	13.56011	13.56017	13.56041	
Error (%)	-0.00177	0.00081	0.00125	0.00302	

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Mode: 5 Minute					
Temperature(℃)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.55951	13.55959	13.55967	13.55962	13.55989
Error (%)	-0.00361	-0.00302	-0.00243	-0.00280	-0.00081
Temperature(℃)	20	30	40	50	
Voltage	DC 2.65V	DC 3V	DC 3V	DC 3V	
Frequency(MHz)	13.55991	13.55997	13.56004	13.56013	
Error (%)	-0.00066	-0.00022	0.00029	0.00096	

Mode: 10 Minute					
Temperature(℃)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.55944	13.55949	13.55956	13.55968	13.55977
Error (%)	-0.00413	-0.00376	-0.00324	-0.00236	-0.00170
Temperature(℃)	20	30	40	50	
Voltage	DC 2.65V	DC 3V	DC 3V	DC 3V	
Frequency(MHz)	13.55962	13.55971	13.55986	13.55988	
Error (%)	-0.00280	-0.00214	-0.00103	-0.00088	

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APPENDIX B

TEST PHOTOGRAPHS

(Model: EASYMAX MU)