

FCC 15.225 13.56MHz Test Report

for

Geon Corporation

No. 12, Gung Ye Road, Xi Hu Taiwan

Product Name : Digital Thermometer
Model Name : (1)MT-F2251 (2)MT-F1251
FCC ID : 2BTJOMT-F1251

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



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 : Geon Corporation
Manufacturer : Geon Corporation
EUT Description
(1) Product : Digital Thermometer
(2) Model : (1)MT-F2251 (2)MT-F1251
(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. 01. 16

Reviewed by: Sunnle Huang (Sunnle Huang/Administrator)

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



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2026. 01. 16	Original Report	EM-F250477

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
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	Geon Corporation No. 12, Gung Ye Road, Xi Hu Taiwan
Manufacturer	Geon Corporation No. 12, Gung Ye Road, Xi Hu Taiwan
Product	Digital Thermometer
Model	(1)MT-F2251 (2)MT-F1251 The details of differences description refer to below table. This report uses MT-F2251 as the test model.

Table: Model different list

Model	MT-F2251	MT-F1251
Decimal Precision	Two decimal places	One decimal place



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3.2. Description of EUT

Test Model	MT-F2251		
Serial Number	N/A		
Power Rating	DC 3V		
RF Features	NFC		
Transmit Type	1T1R		
Test Sample	Sample No.	Test Item	Firmware
	03	RSE	N/A
Sample Status	Production		
Date of Receipt	2024. 11. 22		
Date of Test	2025. 04. 14 ~ 15		
Interface Ports of EUT	None		
Accessories Supplied	None		

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 C63.10:2013

3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	BS1411V0	Shenzhen Pengda Circuit Co. LTD	FPC 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 Channel
Radiated Test Case	Radiated Spurious Emission (In-Band)	1
	Radiated Spurious Emission (Out-Band) ^{Note1}	1
	20dB Bandwidth	1
	Frequency Stability	1

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

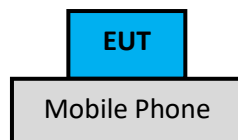
No.	Product	Brand	Model No.	Serial No.	Approval
1.	Mobile Phone	ASUS	ASUS_Z01FD	N/A	N/A
2.	DC Power Supply	TOP WARD	3303A	N/A	N/A

3.8.2. Cable Lists

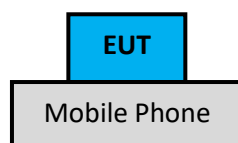
No.	Cable Description Of The Above Support Units
1.	---
2.	AC Power Cord : Unshielded, Detachable, 1.8m DC Power Cable : Unshielded, Detachable, 0.5mx2

3.9. Setup Configuration

3.9.1. EUT Configuration for Radiated Emission



3.9.2. EUT Configuration for RF Conducted Test Items



3.10. Operating Condition of EUT

Test program “EzGlucio Tag APP” is used for enabling EUT NFC function under continues transmitting.

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 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.1 3m Semi Anechoic Chamber

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	± 0.2kHz
Frequency Stability	±0.78ppm

4. MEASUREMENT EQUIPMENT LIST

4.1. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2024.08.12	1 Year
2.	Test Receiver	R&S	ESCS30	100338	2024.06.18	1 Year
3.	Microwave Amplifier	HP	8447D	2944A06305	2024.12.16	1 Year
4.	Bilog Antenna	TESEQ	CBL6112D	33821	2025.02.08	1 Year
5.	Loop Antenna	Electro-Metrics	EMCI-LPA600	287	2024.07.31	1 Year
6.	Coaxial Cable	MIYAZAKI	5D2W	CLAMP-01	2024.09.04	1 Year
7.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2025.01.03	1 Year
8.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2025.04.09	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	N9020B	MY57120357	2025.02.04	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	2025.01.03	1 Year



5. CONDUCTED EMISSION

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

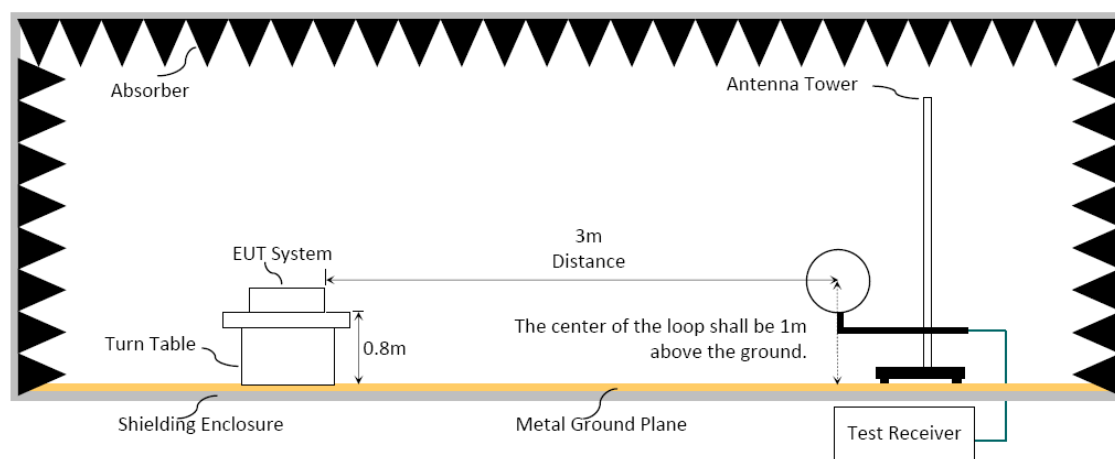
6. RADIATED EMISSION (IN-BAND)

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



6.2. Radiated Emission Limits

Frequency (MHz)	Distance (m)	Limits	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
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) $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

(2) $15848\mu\text{V/m} = 84\text{dB}\mu\text{V/m} = 84 + 40\log(30\text{m}/3\text{m}) = 124\text{dB}\mu\text{V/m}$

$334\mu\text{V/m} = 50.5\text{dB}\mu\text{V/m} = 50.5 + 40\log(30\text{m}/3\text{m}) = 90.5\text{dB}\mu\text{V/m}$

$106\mu\text{V/m} = 40.5\text{dB}\mu\text{V/m} = 40.5 + 40\log(30\text{m}/3\text{m}) = 80.5\text{dB}\mu\text{V/m}$

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 C63.10-2013 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.

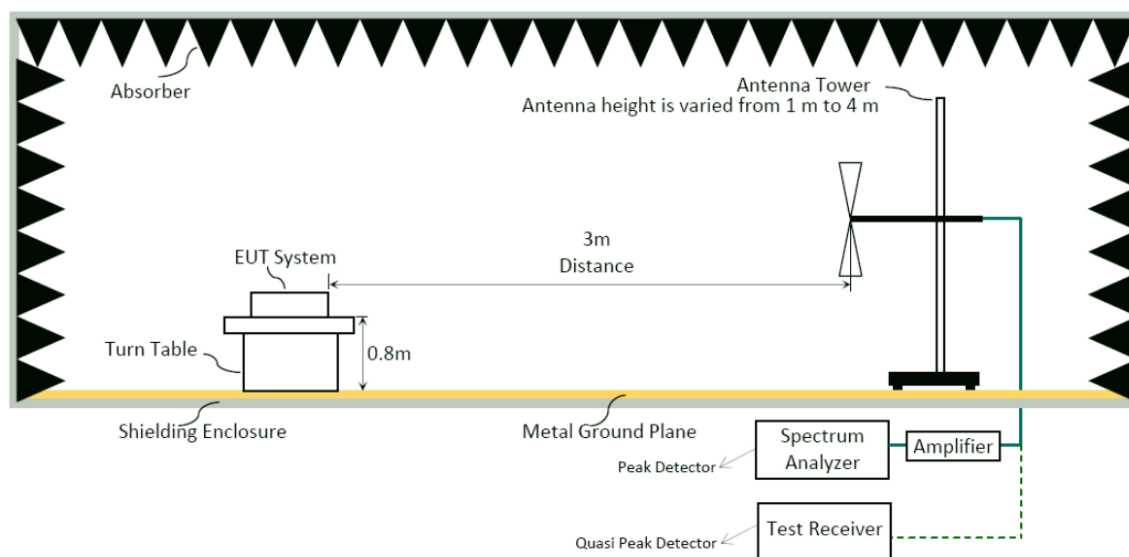
7. RADIATED EMISSION (OUT-BAND)

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



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	
		dB μ V/m	μ V/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 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ V/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.

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: 2013 regulation.

Frequency Range 30MHz~1GHz:

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

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ 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

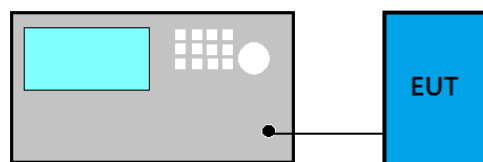
Peak Emission Level(dB μ V/m)=Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dB μ V).

7.6. Test Results

Please refer to Appendix A.

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:

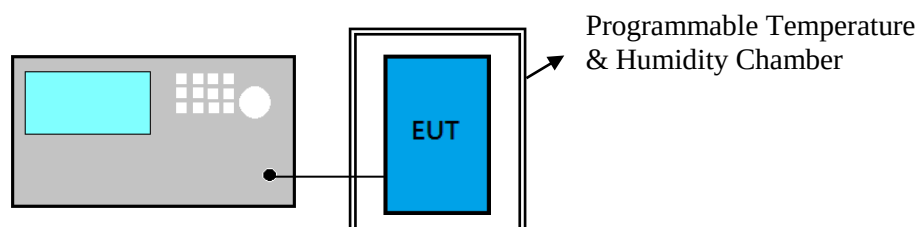
- (1) Set RBW to 1kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

8.4. Test Results

Please refer to Appendix A

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 $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees 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



10.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPENDIX A

TEST DATA AND PLOTS

(Model: MT-F2251)

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A.1 RADIATED EMISSION (IN-BAND)

Test Date	2025/04/14	Temp./Hum.	22°C /58%
Test Voltage	DC 3V (via Battery)	Tested by	Kuper Hsu

Antenna at 0 Degree

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	37.54	0.41	10.03	47.98	124.00	72.62	QP

Antenna at 90 Degree

Emission Frequency (kHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
13.56	37.54	0.41	3.93	41.88	124.00	78.63	QP

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

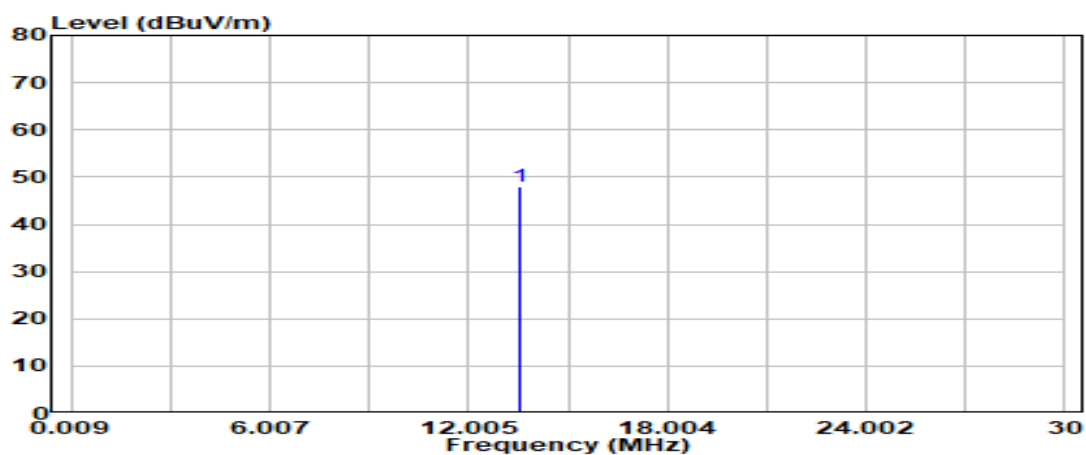
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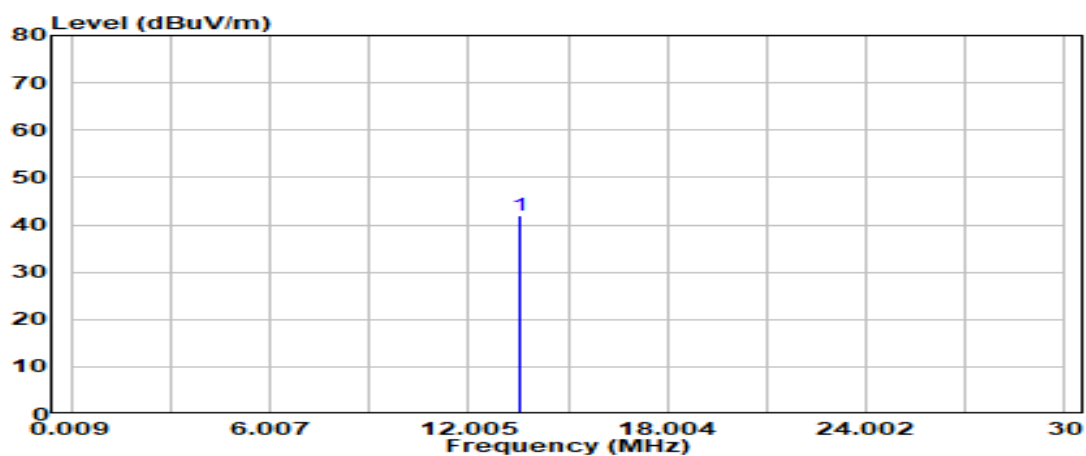
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Antenna at 0 Degree



Antenna at 90 Degree



A.2 RADIATED EMISSION (OUT-BAND)

Test Date	2025/04/14	Temp./Hum.	22°C /58%
Test Voltage	DC 3V (via Battery)	Tested by	Kuper Hsu

A.2.1 Emissions within Restricted Frequency Bands

A.3.1.1 Frequency 9kHz~30MHz

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

A.3.1.2 Frequency 30MHz ~ 1000MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
38.000	19.77	1.60	26.48	34.32	29.21	40.00	10.79	Peak
101.500	16.68	2.63	26.28	34.40	27.42	43.50	16.08	Peak
462.500	22.53	6.47	26.89	31.42	33.54	46.00	12.46	Peak
689.000	24.53	7.58	27.43	32.08	36.76	46.00	9.24	Peak
916.000	26.54	8.85	26.93	33.41	41.86	46.00	4.14	Peak
986.000	27.02	9.22	26.70	33.25	42.79	54.00	11.21	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.000	23.22	1.44	26.49	30.29	28.46	40.00	11.54	Peak
108.000	17.16	2.71	26.23	34.91	28.55	43.50	14.95	Peak
430.500	21.97	6.20	26.67	32.30	33.81	46.00	12.19	Peak
660.000	24.46	7.43	27.42	32.67	37.14	46.00	8.86	Peak
956.000	26.81	9.06	26.80	32.91	41.98	46.00	4.02	Peak
997.000	27.10	9.27	26.67	32.69	42.39	54.00	11.61	Peak

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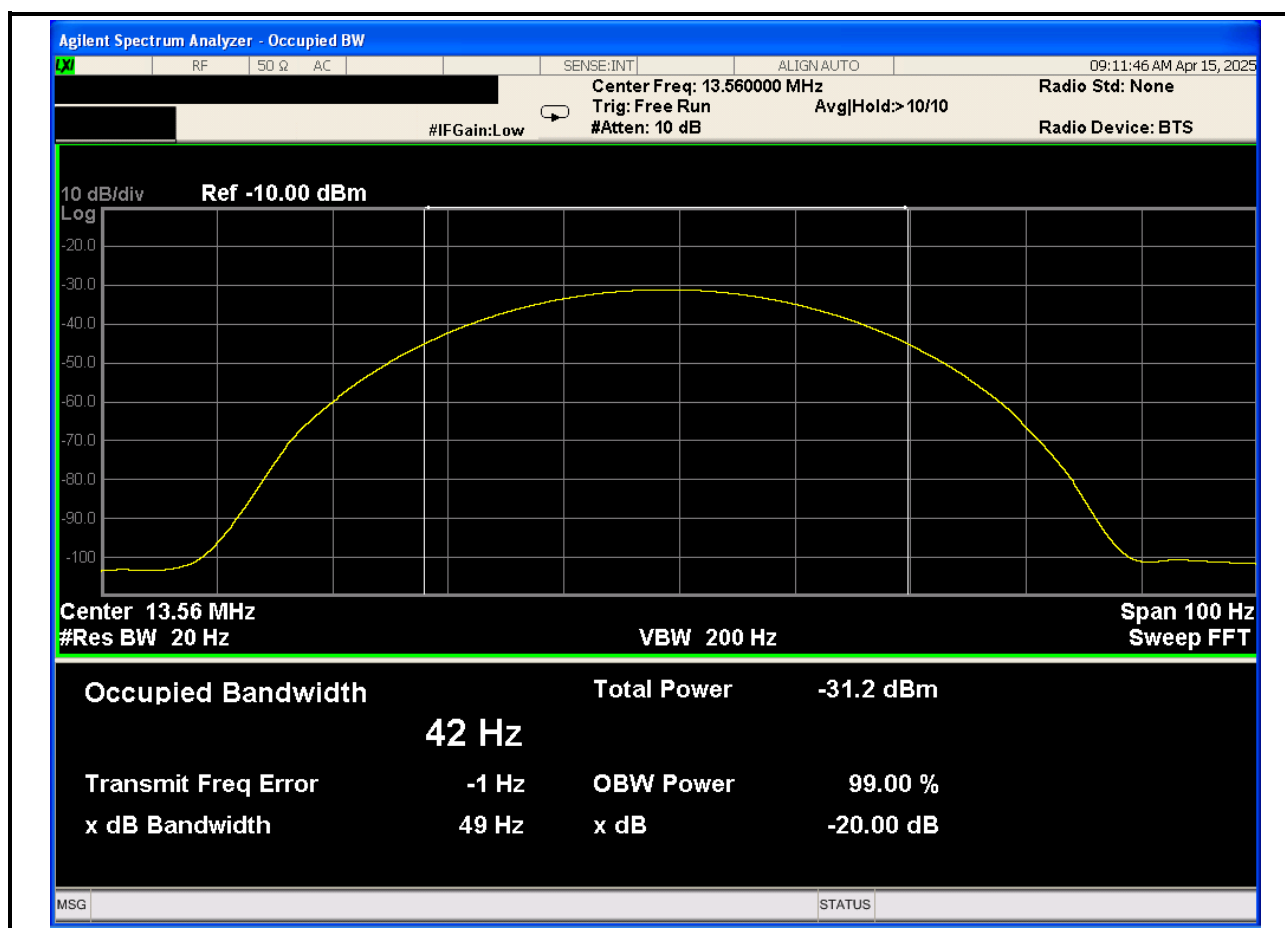
A.3 20dB BANDWIDTH

Test Date	2025/04/15	Temp./Hum.	23°C /62%
Test Voltage	DC 3V (via Battery)	Tested by	Kuper Hsu

A.4.1.1 20dB Bandwidth Result

Centre Frequency (MHz)	20 dB Bandwidth
13.56	49Hz

A.4.1.2 Measurement Plots



A.4 FREQUENCY STABILITY

Test Date	2025/04/14	Temp./Hum.	22°C/58%
Test Normal Voltage	DC 2.55V or DC 3V or DC 3.45V (Via DC Power Supply)	Tested by	Kuper Hsu

Mode: 0 Minute					
Temperature(°C)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.56074	13.56046	13.56037	13.56076	13.55916
Error (%)	0.00546	0.00339	0.00273	0.00560	-0.00619
Temperature(°C)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.55910	13.56039	13.55987	13.56013	13.56053
Error (%)	-0.00664	0.00288	-0.00096	0.00096	0.00391

Mode: 2 Minute					
Temperature(°C)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.56003	13.55998	13.56047	13.56094	13.55934
Error (%)	0.00022	0.00015	0.00347	0.00693	-0.00487
Temperature(°C)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.55901	13.55947	13.56097	13.55939	13.56084
Error (%)	-0.00730	-0.00391	0.00715	-0.00450	0.00619

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Mode: 5 Minute					
Temperature(°C)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.56001	13.55951	13.56013	13.55973	13.55970
Error (%)	0.00007	-0.00361	0.00096	-0.00199	-0.00221
Temperature(°C)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.55939	13.56076	13.55906	13.55909	13.55904
Error (%)	-0.00450	0.00560	-0.00693	-0.00671	-0.00708

Mode: 10 Minute					
Temperature(°C)	-20	-10	0	10	20
Voltage	DC 3V	DC 3V	DC 3V	DC 3V	DC 3.45V
Frequency(MHz)	13.56065	13.56086	13.56043	13.55927	13.55969
Error (%)	0.00479	0.00634	0.00317	-0.00538	-0.00229
Temperature(°C)	20	30	40	50	20
Voltage	DC 2.55V	DC 3V	DC 3V	DC 3V	DC 3V
Frequency(MHz)	13.56023	13.56052	13.55954	13.55965	13.55958
Error (%)	0.00170	0.00383	-0.00339	-0.00258	-0.00310



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APPENDIX B

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APPENDIX B

TEST PHOTOGRAPHS

(Model: MT-F2251)