



Test Report

Date : 2025-06-11

Page 1 of 29

No. : HMD25050004

Applicant : GUANGDONG HUINA MODEL CO., LTD.
No.9 Xin Xing Five Road, Xin Ning, Chenghai District, Shantou City

Supplier / Manufacturer : GUANGDONG HUINA MODEL CO., LTD.
No.9 Xin Xing Five Road, Xin Ning, Chenghai District, Shantou City

Description of Sample(s) : Submitted sample(s) said to be
Product: shop truck
Brand Name: N/A
Model No.: 1318
FCC ID: 2AT93HUINA-1318

Date Samples Received : 2025-04-30

Date Tested : 2025-04-30 to 2025-05-13

Investigation Requested : Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.10: 2013 for FCC Certification.

Conclusions : The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks : For additional model(s) details, see page 3

Test by Susu


Dr.CHAN Kwok Hung, Brian
Authorized Signatory

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 2 of 29

CONTENT:

| | |
|--|------------------|
| Cover | Page 1 of 29 |
| Content | Page 2 of 29 |
| <u>1.0 General Details</u> | |
| 1.1 Equipment Under Test [EUT] Description of EUT operation | Page 3 of 29 |
| 1.2 RF Module Details | Page 3 of 29 |
| 1.3 Antenna Details | Page 3 of 29 |
| 1.4 Date of Order | Page 3 of 29 |
| 1.5 Submitted Sample(s) | Page 3 of 29 |
| 1.6 Test Duration | Page 3 of 29 |
| 1.7 Country of Origin | Page 3 of 29 |
| 1.8 Channel List | Page 4 of 29 |
| <u>2.0 Technical Details</u> | |
| 2.1 Investigations Requested | Page 5 of 29 |
| 2.2 Test Standards and Results Summary | Page 6 of 29 |
| <u>3.0 Test Results</u> | |
| 3.1 Emission | Page 7-25 of 29 |
| <u>Appendix A</u> | |
| List of Measurement Equipment | Page 26 of 29 |
| <u>Appendix B</u> | |
| Photograph(s) of Product | Page 27-29 of 29 |

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 3 of 29

1.0 General Details

1.1 Equipment Under Test [EUT] Description of Sample(s)

Product: shop truck
Manufacturer: GUANGDONG HUINA MODEL CO., LTD.
No.9 Xin Xing Five Road, Xin Ning, Chenghai District, Shantou City
Brand Name: N/A
Model Number: 1318
Additional Model Number:
13500, 13501, 13502, 13503, 13504, 13505, 13506, 13507, 13508, 13509, 13510A, 13510, 13511,
13512, 13513, 13514, 13515, 13516, 13517, 13518, 13519, 13520, 13521, 13522, 13523, 13524,
13525, 13526, 13527, 13528, 13529, 13550, 13551, 13552, 13553, 13554, 13555, 13556, 13557,
13558, 13559, 13560, 13561, 13562, 13563, 13564, 13565, 13566, 13567, 13568, 13569, 13570,
13571, 13572, 13573, 13574, 13575, 13576, 13577, 13578, 13579, 1310, 1312, 1313, 1316, 1317,
1318, 1319, 1331, 1332, 1333, 1337, 1338, 1334, 1335, 1337, 1350, 1361, 1362, 1363, 1364, 1365,
1381, 1382, 1383, 1384, 1385, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1510, 1515, 1516, 1517,
1518, 1520, 1522, 1523, 1524, 1525, 1526, 1527, 1530, 1531, 1532, 1533, 1534, 1535, 1535-1, 1536,
1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1550, 1551, 1552, 1553, 1554,
1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1570, 1571, 1572,
1573, 1574, 1575, 1576, 1577, 1577H, 1579, 1580, 1581, 1582, 1583, 1585, 1586, 1587, 1590, 1591,
1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1661, 9900, 9901, 9902, 9903, 9904, 9905,
9906, 9907, 9908, 9909, 9910, 9911, 9912, 9913, 9914, 9915, 9916, 9917, 9918, 9919, 9920, 9921,
9922, 9923, 9924, 9925, 9926, 9927, 9928, 9929, 9930, 9931, 9932, 9933, 9934, 9935, 9936, 9937,
9938, 9939, 9940, 9941, 9942, 9943, 9944, 9945, 9946, 9947, 9948, 9949, 9950, 9951, 9952, 9953,
9954, 9955, 9956, 9957, 9958, 9959, 9960
Rating: REMOTE CONTROL: 3Vd.c.("AA" size battery x2)

1.1.1 Description of EUT Operation

The Equipment Under Test (EUT) is a shop truck. It is a transceiver operating at 2405Hz~2475MHz and the RF signal was modulated by IC.

1.2 RF Module Details

Module Model Number: N/A
Module FCC ID: N/A
Modulation: GFSK
Frequency Range: 2405-2475MHz

1.3 Antenna Details

Antenna Type: Integral antenna
Antenna Gain: 0dBi

1.4 Date of Order



Test Report

Date : 2025-06-11
No. : HMD25050004

Page 4 of 29

2025-04-22

Submitted Sample(s):

1.5

1 Sample

1.6 Test Duration

2025-04-30 to 2025-05-13

1.7 Country of Origin

China

1.8 Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1 | 2405 | 21 | 2471 |
| 2 | 2407 | 22 | 2472 |
| 3 | 2408 | 23 | 2473 |
| 4 | 2410 | 24 | 2474 |
| 5 | 2411 | 25 | 2475 |
| 6 | 2414 | | |
| 7 | 2418 | | |
| 8 | 2422 | | |
| 9 | 2425 | | |
| 10 | 2427 | | |
| 11 | 2428 | | |
| 12 | 2435 | | |
| 13 | 2445 | | |
| 14 | 2451 | | |
| 15 | 2452 | | |
| 16 | 2453 | | |
| 17 | 2454 | | |
| 18 | 2462 | | |
| 19 | 2469 | | |
| 20 | 2470 | | |

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 5 of 29

2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.10: 2013 for FCC Certification.
The device was realized with below steps.

Enter testing mode:

Press and hold the forward and right turn buttons, then turn on the power and the IC enters test mode;
After entering the testing mode, press the right turn button briefly to switch modes and frequencies.

Mode 1: Modulation wave mode, frequency 2.405 GHz

Mode 2: Modulation wave mode, frequency 2.445 GHz

Mode 3: Modulation wave mode, frequency 2.475 GHz

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 6 of 29

2.2 Test Standards and Results Summary Tables

| EMISSION Results Summary | | | | | | |
|---|--------------------------------------|-------------------|---------------------|-------------------------------------|--------------------------|--------------------------|
| Test Condition | Test Requirement | Test Method | Class / Severity | Test Result | | |
| | | | | Pass | Failed | N/A |
| Field Strength of Fundamental & Harmonics Emissions | FCC 47CFR 15.249 | ANSI C63.10: 2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emissions | FCC 47CFR 15.209 FCC 47CFR 15.205 | ANSI C63.10: 2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| AC Mains Conducted Emissions | FCC 47CFR 15.207 | ANSI C63.10: 2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Antenna requirement | FCC 47CFR 15.203 | N/A | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20dB Emission bandwidth | FCC 47CFR 15.215(c) | ANSI C63.10: 2013 | N/A | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 7 of 29

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

Ambient temperature 25°C

Relative humidity 57%

| | |
|--------------------|-------------------------------------|
| Test Requirement: | FCC 47CFR 15.249 & FCC 47CFR 15.209 |
| Test Method: | ANSI C63.10:2013 |
| Test Date: | 2025-05-06 to 2025-05-07 |
| Mode of Operation: | Tx mode |

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

- * Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with
Registration Number: HK0001
Test Firm Registration Number: 367672

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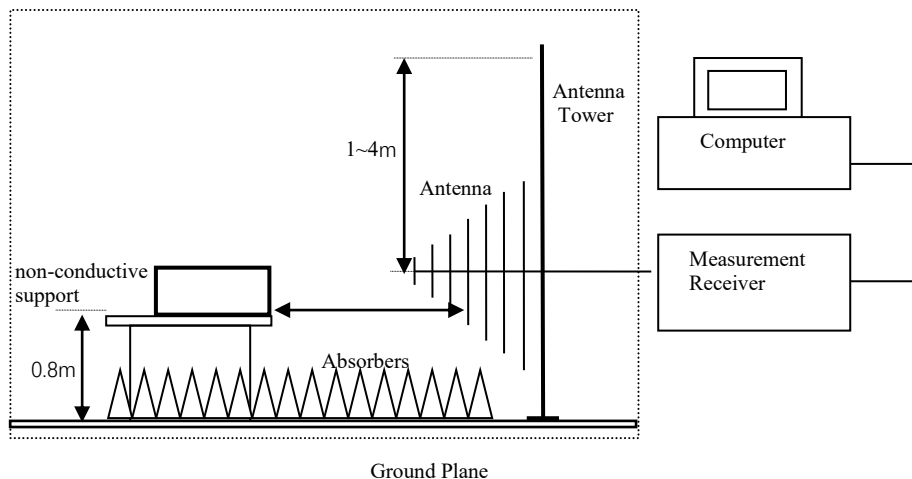
Date : 2025-06-11
No. : HMD25050004

Page 8 of 29

Spectrum Analyzer Setting:

| | |
|--|---|
| 9KHz – 30MHz (Pk & Av) | RBW: 10kHz VBW: 30kHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold |
| 30MHz – 1GHz (QP) | RBW: 120kHz VBW: 120kHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold |
| Above 1GHz (Pk & Av) (Other than Fundamental Emissions) | RBW: 1MHz VBW: 1MHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold |

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.



Test Report

Date : 2025-06-11
No. : HMD25050004

Page 9 of 29

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

| Frequency Range of Fundamental [MHz] | Field Strength of Fundamental Emission [microvolts/meter] | Field Strength of Harmonics Emission [microvolts/meter] |
|--|---|---|
| 902-928 | 50,000 [Quasi-Peak] | 500 [Average] |
| 2400-2483.5 | 50,000 [Average] | 500 [Average] |

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Calculated measurement uncertainty
(9kHz-30MHz): 2.0dB
(30MHz -1GHz): 4.9dB
(1GHz -6GHz): 4.02dB
(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 10 of 29

Results of Tx mode (Lowest Frequency Channel-2405 MHz): Pass

| Field Strength of Fundamental Emissions | | | | | | |
|---|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 2405.00 | 98.8 | -4.8 | 94.0 | 49,831.0 | 500,000 | Vertical |
| 2405.00 | 97.3 | -4.7 | 92.6 | 42,756.3 | 500,000 | Horizontal |

| Field Strength of Fundamental Emissions | | | | | | |
|---|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 2405.00 | 91.2 | -4.8 | 86.4 | 20,773.0 | 50,000 | Vertical |
| 2405.00 | 89.1 | -4.7 | 84.4 | 16,634.1 | 50,000 | Horizontal |

| Field Strength of Harmonics Emission | | | | | | |
|--------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V/m | Correction Factor dB μ V/m | Field Strength dB μ V/m | Field Strength μ V/m | Limit @3m μ V/m | E-Field Polarity |
| 4810.0 | 55.1 | 0.8 | 55.9 | 623.7 | 5,000 | Vertical |
| 4810.0 | 55.7 | 0.5 | 56.2 | 645.7 | 5,000 | Horizontal |
| 7215.0 | 48.5 | 7.0 | 55.5 | 595.7 | 5,000 | Vertical |
| 7215.0 | 49.2 | 6.5 | 55.7 | 609.5 | 5,000 | Horizontal |
| 9620.0 | 46.9 | 8.5 | 55.4 | 588.8 | 5,000 | Vertical |
| 9620.0 | 47.0 | 8.3 | 55.3 | 582.1 | 5,000 | Horizontal |
| 12025.0 | 45.2 | 10.9 | 56.1 | 638.3 | 5,000 | Vertical |
| 12025.0 | 45.0 | 10.8 | 55.8 | 616.6 | 5,000 | Horizontal |

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 11 of 29

| Field Strength of Harmonics Emission | | | | | | |
|--------------------------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV/m | Correction Factor dBμV/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 4810.0 | 40.5 | 0.8 | 41.3 | 116.1 | 500 | Vertical |
| 4810.0 | 41.3 | 0.5 | 41.8 | 123.0 | 500 | Horizontal |
| 7215.0 | 34.6 | 7.0 | 41.6 | 120.2 | 500 | Vertical |
| 7215.0 | 35.4 | 6.5 | 41.9 | 124.5 | 500 | Horizontal |
| 9620.0 | 33.2 | 8.5 | 41.7 | 121.6 | 500 | Vertical |
| 9620.0 | 33.3 | 8.3 | 41.6 | 120.2 | 500 | Horizontal |
| 12025.0 | 30.4 | 10.9 | 41.3 | 116.1 | 500 | Vertical |
| 12025.0 | 30.7 | 10.8 | 41.5 | 118.9 | 500 | Horizontal |

Results of Tx mode (Middle Frequency Channel- 2445MHz): Pass

| Field Strength of Fundamental Emissions | | | | | | |
|---|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV/m | Correction Factor dBμV/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 2445.00 | 96.9 | -4.8 | 92.1 | 40,364.5 | 500,000 | Vertical |
| 2445.00 | 96.6 | -4.7 | 91.9 | 39,174.2 | 500,000 | Horizontal |

| Field Strength of Fundamental Emissions | | | | | | |
|---|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV/m | Correction Factor dBμV/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 2445.00 | 90.8 | -4.8 | 86.0 | 20,044.7 | 50,000 | Vertical |
| 2445.00 | 89.6 | -4.7 | 84.9 | 17,559.0 | 50,000 | Horizontal |

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 12 of 29

| Field Strength of Harmonics Emission Peak Value | | | | | | |
|--|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV/m | Correction Factor dBμV/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 4890.0 | 55.1 | 0.8 | 55.9 | 625.2 | 5,000 | Vertical |
| 4890.0 | 56.2 | 0.5 | 56.7 | 683.9 | 5,000 | Horizontal |
| 7335.0 | 48.4 | 7.0 | 55.4 | 588.8 | 5,000 | Vertical |
| 7335.0 | 50.1 | 6.5 | 56.6 | 676.1 | 5,000 | Horizontal |
| 9780.0 | 46.9 | 8.5 | 55.4 | 588.8 | 5,000 | Vertical |
| 9780.0 | 47.5 | 8.3 | 55.8 | 616.6 | 5,000 | Horizontal |
| 12225.0 | 45.2 | 10.9 | 56.1 | 638.3 | 5,000 | Vertical |
| 12225.0 | 44.9 | 10.8 | 55.7 | 609.5 | 5,000 | Horizontal |

| Field Strength of Harmonics Emission Average Value | | | | | | |
|---|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV/m | Correction Factor dBμV/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 4890.0 | 41.3 | 0.8 | 42.1 | 127.6 | 500 | Vertical |
| 4890.0 | 41.4 | 0.5 | 41.9 | 124.5 | 500 | Horizontal |
| 7335.0 | 34.3 | 7.0 | 41.3 | 116.1 | 500 | Vertical |
| 7335.0 | 35.1 | 6.5 | 41.6 | 120.2 | 500 | Horizontal |
| 9780.0 | 33.2 | 8.5 | 41.7 | 121.6 | 500 | Vertical |
| 9780.0 | 33.2 | 8.3 | 41.5 | 118.9 | 500 | Horizontal |
| 12225.0 | 30.8 | 10.9 | 41.7 | 121.6 | 500 | Vertical |
| 12225.0 | 29.4 | 10.8 | 40.2 | 102.3 | 500 | Horizontal |

Results of Tx mode (Highest Frequency Channel – 2475MHz): Pass

| Field Strength of Fundamental Emissions Peak Value | | | | | | |
|---|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV/m | Correction Factor dBμV/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 2475.00 | 97.4 | -4.8 | 92.6 | 42,608.9 | 500,000 | Vertical |
| 2475.00 | 93.4 | -4.7 | 88.7 | 27,227.0 | 500,000 | Horizontal |

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Test Report

Date : 2025-06-11

Page 13 of 29

No. : HMD25050004

| Field Strength of Fundamental Emissions | | | | | | |
|---|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV/m | Correction Factor dBμV/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 2475.00 | 90.9 | -4.8 | 86.1 | 20,160.4 | 50,000 | Vertical |
| 2475.00 | 87.2 | -4.7 | 82.5 | 13,396.8 | 50,000 | Horizontal |

| Field Strength of Harmonics Emission | | | | | | |
|--------------------------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV/m | Correction Factor dBμV/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 4950.0 | 55.1 | 0.8 | 55.9 | 625.2 | 5,000 | Vertical |
| 4950.0 | 55.7 | 0.5 | 56.2 | 645.7 | 5,000 | Horizontal |
| 7425.0 | 49.0 | 7.0 | 56.0 | 631.0 | 5,000 | Vertical |
| 7425.0 | 49.2 | 6.5 | 55.7 | 609.5 | 5,000 | Horizontal |
| 9900.0 | 47.3 | 8.5 | 55.8 | 616.6 | 5,000 | Vertical |
| 9900.0 | 47.0 | 8.3 | 55.3 | 582.1 | 5,000 | Horizontal |
| 12375.0 | 45.1 | 10.9 | 56.0 | 631.0 | 5,000 | Vertical |
| 12375.0 | 45.3 | 10.8 | 56.1 | 638.3 | 5,000 | Horizontal |

| Field Strength of Harmonics Emission | | | | | | |
|--------------------------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dBμV/m | Correction Factor dBμV/m | Field Strength dBμV/m | Field Strength μV/m | Limit @3m μV/m | E-Field Polarity |
| 4950.0 | 40.6 | 0.8 | 41.4 | 117.8 | 500 | Vertical |
| 4950.0 | 41.7 | 0.5 | 42.2 | 128.8 | 500 | Horizontal |
| 7425.0 | 34.5 | 7.0 | 41.5 | 118.9 | 500 | Vertical |
| 7425.0 | 35.3 | 6.5 | 41.8 | 123.0 | 500 | Horizontal |
| 9900.0 | 33.1 | 8.5 | 41.6 | 120.2 | 500 | Vertical |
| 9900.0 | 33.5 | 8.3 | 41.8 | 123.0 | 500 | Horizontal |
| 12285.0 | 30.6 | 10.9 | 41.5 | 118.9 | 500 | Vertical |
| 12375.0 | 30.3 | 10.8 | 41.1 | 113.5 | 500 | Horizontal |

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 14 of 29

Radiated Emissions Measurement:

Limit :

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Result: RF Radiated Emissions (1GHz-26GHz) (Lowest)

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 2400.0 | 67.3 | -4.8 | 62.5 | 74.0 | 11.5 | Vertical |
| 2400.0 | 67.1 | -4.7 | 62.4 | 74.0 | 11.6 | Horizontal |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 2400.0 | 53.4 | -4.8 | 48.6 | 54.0 | 5.4 | Vertical |
| 2400.0 | 53.6 | -4.7 | 48.9 | 54.0 | 5.1 | Horizontal |

Result: RF Radiated Emissions (1GHz-26GHz) (Highest)

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Peak Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 2483.5 | 61.2 | -4.8 | 56.4 | 74.0 | 17.6 | Vertical |
| 2483.5 | 62.3 | -4.7 | 57.6 | 74.0 | 16.4 | Horizontal |

| Field Strength of Band-edge Compliance | | | | | | |
|--|-------------------------------------|------------------------------|-----------------------------------|------------------------------|------------------------|---------------------|
| Average Value | | | | | | |
| Frequency MHz | Measured Level @3m dB μ V | Correction Factor dB/m | Field Strength dB μ V/m | Limit @3m dB μ V/m | Margin dB μ V/m | E-Field Polarity |
| 2483.5 | 49.9 | -4.8 | 45.1 | 54.0 | 8.9 | Vertical |
| 2483.5 | 50.5 | -4.7 | 45.8 | 54.0 | 8.2 | Horizontal |

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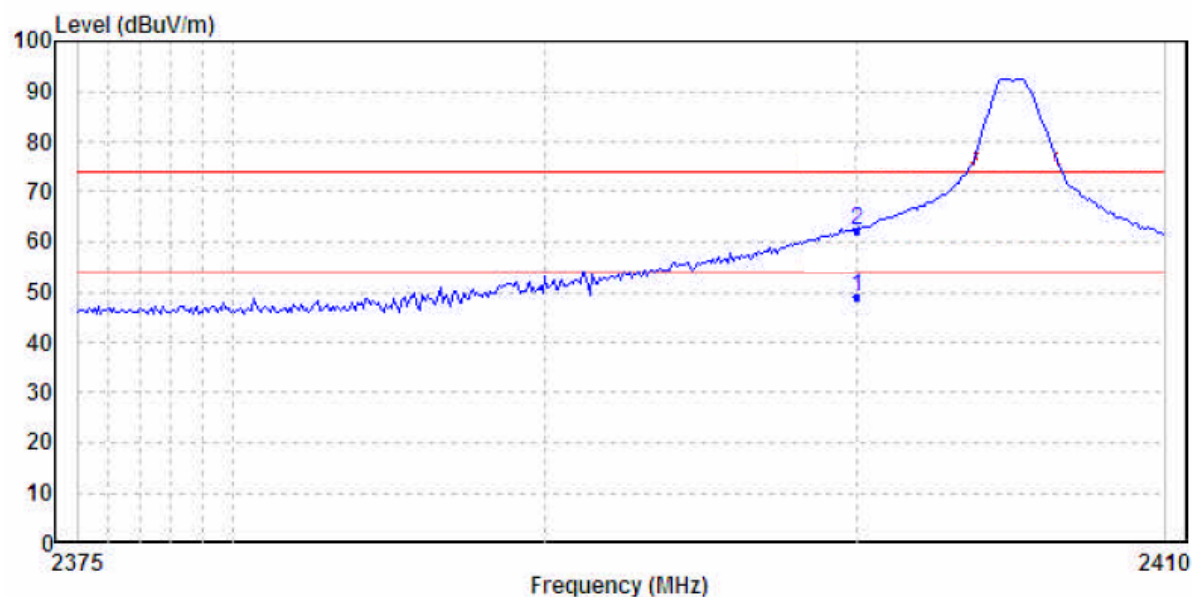
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Page 15 of 29

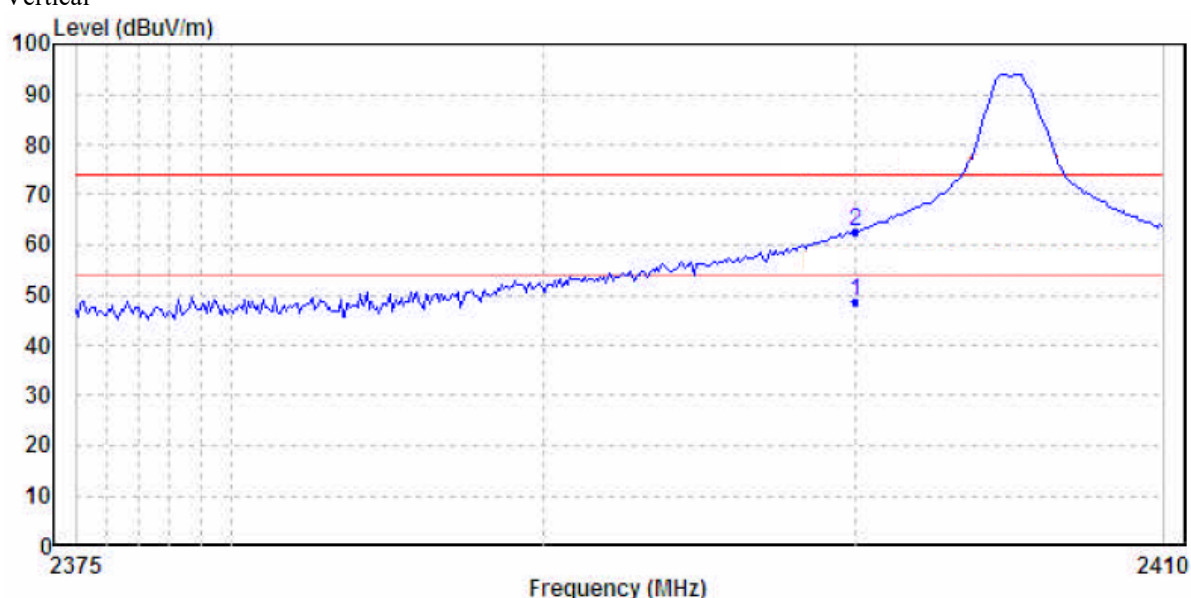
No. : HMD25050004

Emissions radiated outside of the specified frequency bands (Lowest)

Horizontal



Vertical



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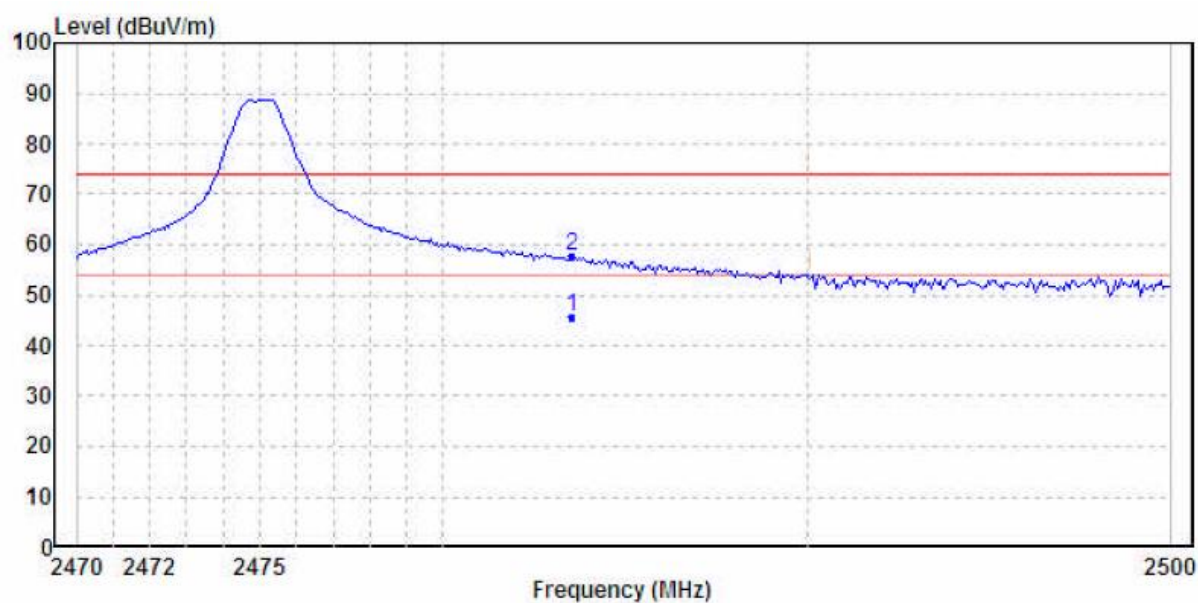
Test Report

Date : 2025-06-11
No. : HMD25050004

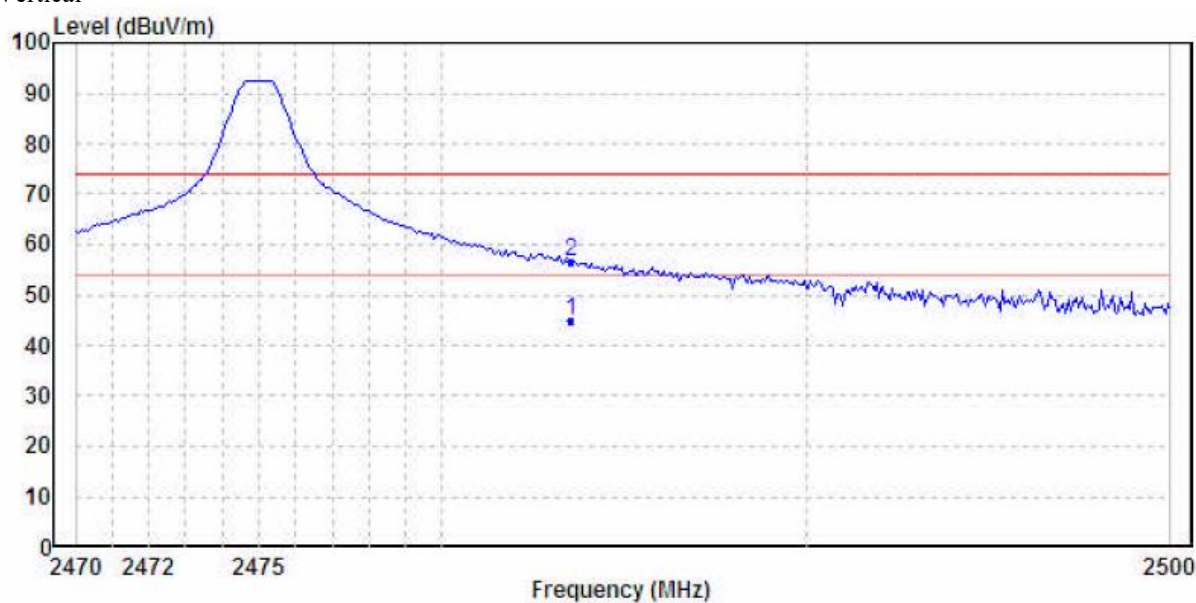
Page 16 of 29

Emissions radiated outside of the specified frequency bands (Highest)

Horizontal



Vertical



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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 17 of 29

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

| Frequency Range [MHz] | Quasi-Peak Limits [μV/m] |
|--------------------------|-----------------------------|
| 0.009-0.490 | 2400/F (kHz) |
| 0.490-1.705 | 24000/F (kHz) |
| 1.705-30 | 30 |
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above960 | 500 |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Remarks:

Calculated measurement uncertainty (9kHz-30MHz): 2.0dB /(30MHz – 1GHz): 4.9dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

Results of TX mode (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

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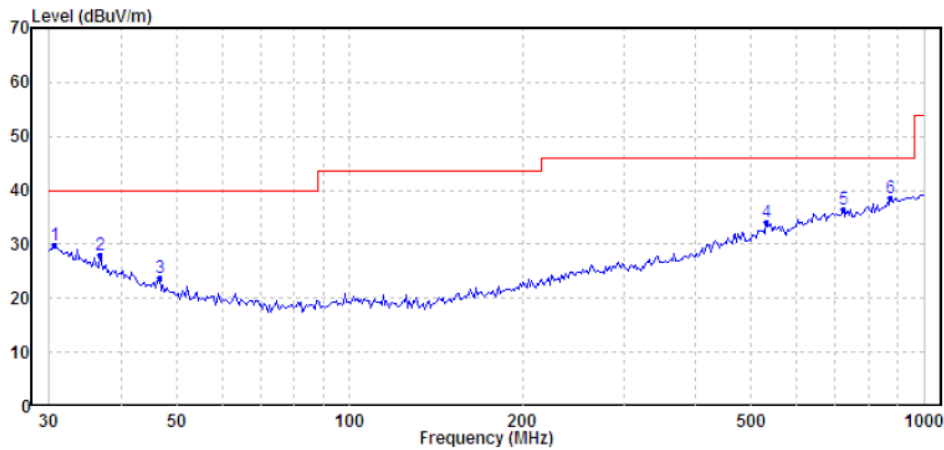
Test Report

Date : 2025-06-11
No. : HMD25050004

Page 18 of 29

Results of TX mode (30MHz – 1GHz)(2405MHz worst case): PASS

Horizontal



Ambient Temperature: 25C

Relative Humidity : 50%

| | Freq | Level | Limit | Over | Remark | Pol/Phase |
|---|---------|--------|--------|--------|--------|------------|
| | MHz | dBuV/m | dBuV/m | dB | | |
| 1 | 30.638 | 29.93 | 40.00 | -10.07 | QP | Horizontal |
| 2 | 36.766 | 28.11 | 40.00 | -11.89 | QP | Horizontal |
| 3 | 46.666 | 23.75 | 40.00 | -16.25 | QP | Horizontal |
| 4 | 531.964 | 33.96 | 46.00 | -12.04 | QP | Horizontal |
| 5 | 724.261 | 36.49 | 46.00 | -9.51 | QP | Horizontal |
| 6 | 875.247 | 38.56 | 46.00 | -7.44 | QP | Horizontal |

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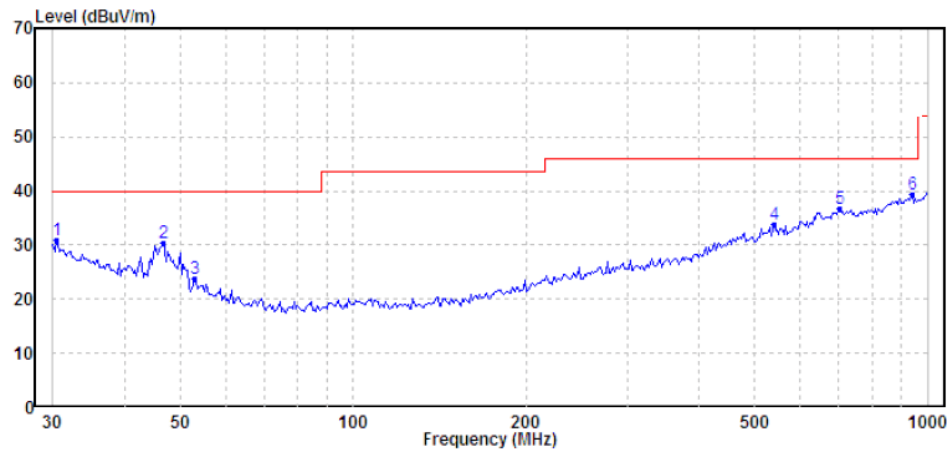
Test Report

Date : 2025-06-11
No. : HMD25050004

Page 19 of 29

Results of TX mode (30MHz – 1GHz) (2405MHz worst case): PASS

Vertical



Ambient Temperature: 25C

Relative Humidity : 50%

| | Freq | Level | Limit | Over | Remark | Pol/Phase |
|---|---------|--------|--------|--------|--------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | | |
| 1 | 30.424 | 30.84 | 40.00 | -9.16 | QP | Vertical |
| 2 | 46.666 | 30.43 | 40.00 | -9.57 | QP | Vertical |
| 3 | 52.945 | 23.88 | 40.00 | -16.12 | QP | Vertical |
| 4 | 539.478 | 33.74 | 46.00 | -12.26 | QP | Vertical |
| 5 | 704.226 | 36.72 | 46.00 | -9.28 | QP | Vertical |
| 6 | 938.833 | 39.27 | 46.00 | -6.73 | QP | Vertical |

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 20 of 29

3.1.2 AC Mains Conducted Emissions (0.15MHz to 30MHz)

| | |
|--------------------|------------------|
| Test Requirement: | FCC 47CFR 15.207 |
| Test Method: | ANSI C63.10:2013 |
| Test Date: | N/A |
| Mode of Operation: | TX mode |
| Test Voltage: | 120V a.c. 60Hz |

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

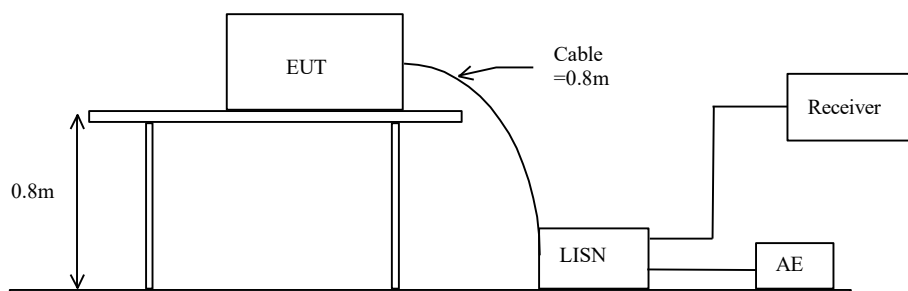
Test Method:

The test was performed in accordance with ANSI C63.10:2013, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Receiver Setting:

Bandw. = 9 kHz, Meas. Time= 10.0 ms, Step Width = 5.0kHz
 Detector = MaxPeak and CISPR AV

Test Setup:



Limits for Conducted Emissions (FCC 47 CFR 15.207):

| Frequency Range [MHz] | Quasi-Peak Limits [dBμV] | Average [dBμV] |
|--------------------------|-----------------------------|-------------------|
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5.0 | 56 | 46 |
| 5.0-30.0 | 60 | 50 |

* Decreases with the logarithm of the frequency.

Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.25dB

Results: N/A



Test Report

Date : 2025-06-11
No. : HMD25050004

Page 21 of 29

3.1.3 Antenna Requirement

Ambient temperature 25°C

Relative humidity 57%

Test Requirements: § 15.203

Test Specification:

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.

Test Results:

This is Integral antenna. There is no external antenna, the antenna1 gain =0dBi. User is unable to remove or changed the Antenna.

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 22 of 29

3.1.4 20dB Bandwidth of Fundamental Emission

Ambient temperature 25°C

Relative humidity 57%

Test Requirement: FCC 47 CFR 15.249
Test Method: ANSI C63.10:2013
Test Date: 2025-05-08
Mode of Operation: Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

The measurement bandwidth settings are RBW = 30 kHz
VBW = 100 kHz

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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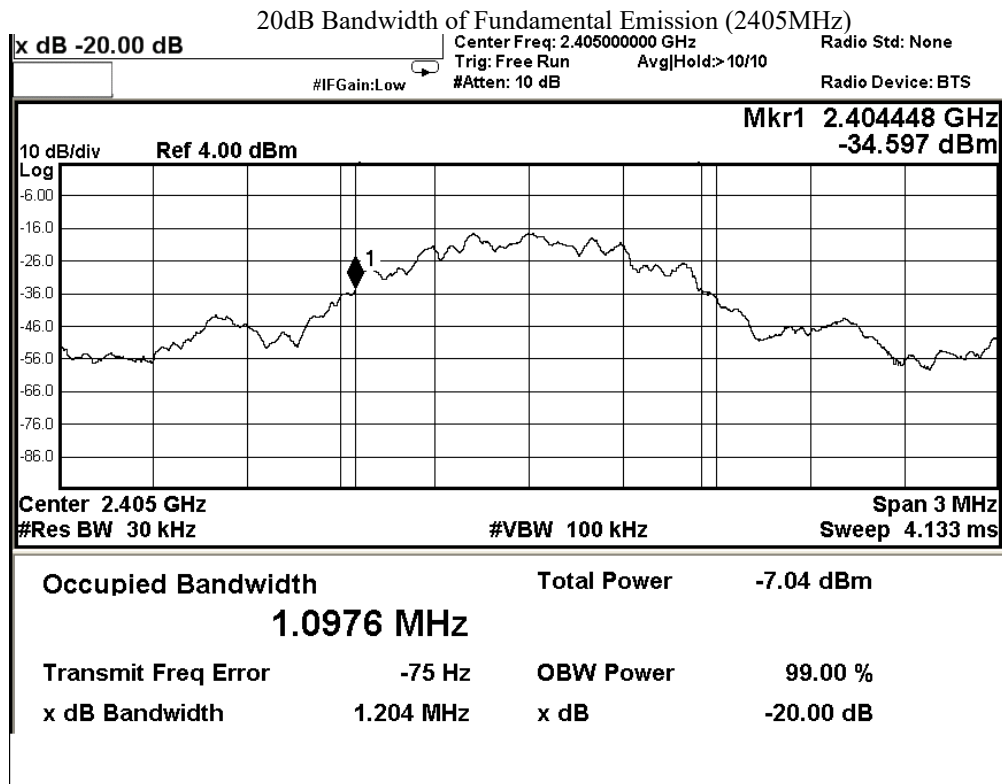
Test Report

Date : 2025-06-11
No. : HMD25050004

Page 23 of 29

Limits for 20dB Bandwidth of Fundamental Emission (Low Frequency Channel):
Ant 1

| Frequency Range [MHz] | 20dB Bandwidth [MHz] |
|--------------------------|-------------------------|
| 2405.0 | 1.204 |



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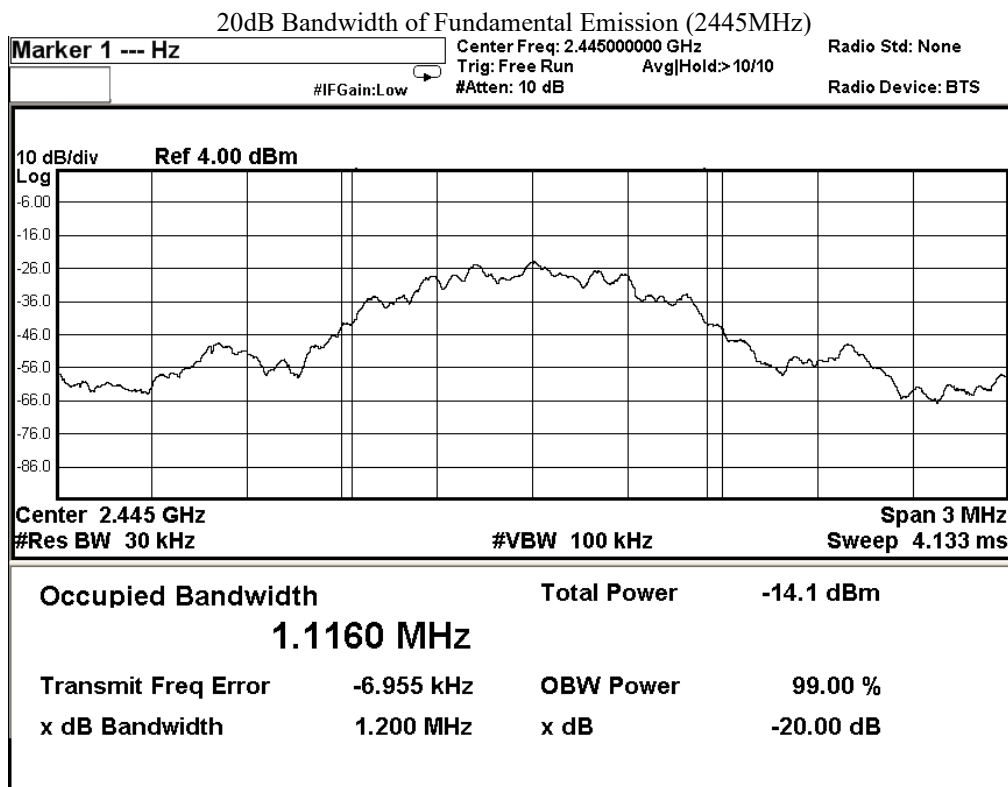
Test Report

Date : 2025-06-11
No. : HMD25050004

Page 24 of 29

Limits for 20dB Bandwidth of Fundamental Emission (Middle Frequency Channel):

| Frequency Range [MHz] | 20dB Bandwidth [MHz] |
|--------------------------|-------------------------|
| 2445.0 | 1.200 |



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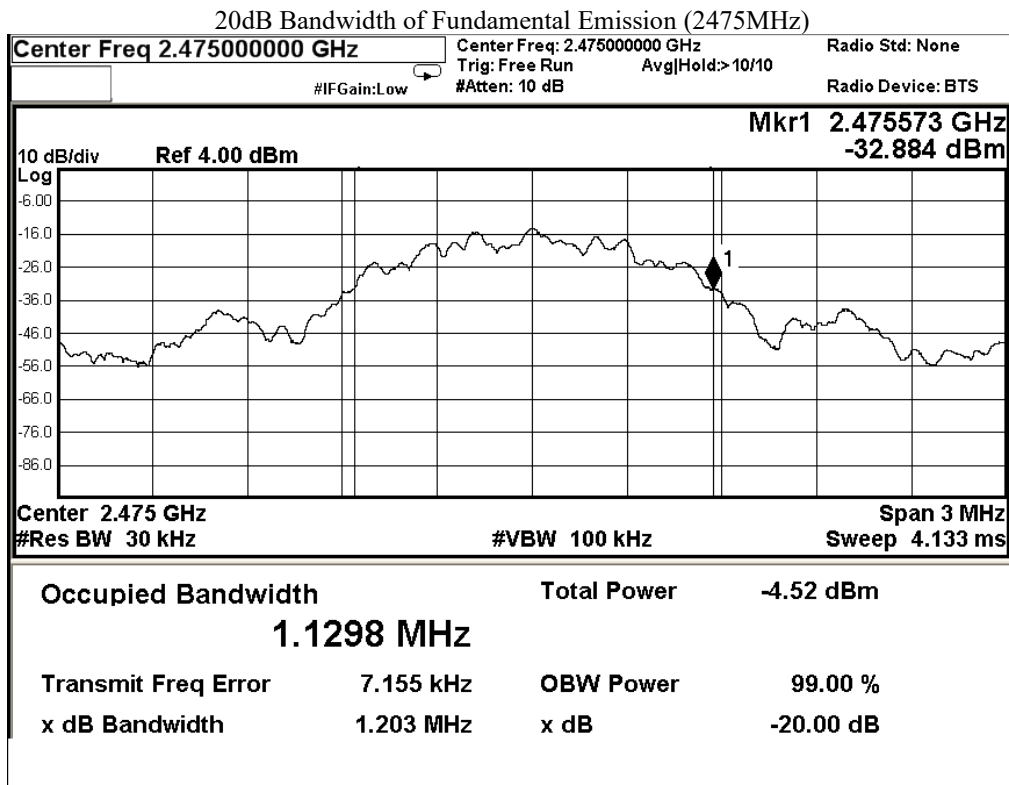
Test Report

Date : 2025-06-11
No. : HMD25050004

Page 25 of 29

Limits for 20dB Bandwidth of Fundamental Emission (High Frequency Channel):

| Frequency Range [MHz] | 20dB Bandwidth [MHz] |
|--------------------------|-------------------------|
| 2475.0 | 1.203 |



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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 26 of 29

Appendix A

List of Measurement Equipment

Radiated Emission

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL | DUE CAL |
|---------|---|-------------------------|-----------|------------|------------|------------|
| EM215 | MULTIDevice CONTROLLER | EMCO | 2090 | 00024676 | N/A | N/A |
| EM217 | ELECTRIC POWERED TURNTABLE | EMCO | 2088 | 00029144 | N/A | N/A |
| EM218 | ANECHOIC CHAMBER | ETS-LINDGREN | FACT-3 | -- | 2024-04-18 | 2029-04-18 |
| EM356 | ANTENNA POSITIONING TOWER | ETS-LINDGREN | 2171B | 00150346 | N/A | N/A |
| EM293 | SPECTRUM ANALYZER | AGILENT TECHNOLOGIES | N9020A | MY50510152 | 2024-11-07 | 2025-11-07 |
| EM363 | SIGNAL ANALYZER(10HZ- 40GHZ) | R & S | FSV40 | 101231 | 2024-01-17 | 2026-01-17 |
| EM299 | BROADBAND HORN ANTENNA | ETS-LINDGREN | 3115 | 00114120 | 2023-01-25 | 2026-01-25 |
| EM300 | PYRAMIDAL STANDARD GAIN HORN ANTENNA | ETS-LINDGREN | 3160-09 | 00130130 | 2023-01-16 | 2026-01-16 |
| EM301 | PYRAMIDAL STANDARD GAIN HORN ANTENNA | ETS-LINDGREN | 3160-10 | 00130988 | 2023-02-15 | 2026-02-15 |
| EM353 | LOOP ANTENNA | ETS_LINDGREN | 6502 | 00206533 | 2022-09-26 | 2025-09-26 |
| EM355 | BICONILOG ANTENNA | ETS-LINDGREN | 3143B | 00094856 | 2022-08-26 | 2025-08-26 |
| EM200 | DUAL CHANNEL POWER METER | R & S | NRVD | 100592 | 2023-08-02 | 2025-08-02 |

Line Conducted

| EQP NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL | DUE CAL |
|---------|--|-------------------------------------|-----------|---------------------|------------|------------|
| EM191 | LISN | R & S | ESH3-Z5 | 0831.5518.52 | 2025-03-20 | 2026-03-20 |
| EM181 | EMI TEST RECEIVER | R & S | ESIB7 | 100072 | 2025-04-24 | 2026-04-24 |
| EM179 | IMPULSE LIMITER | R & S | ESH3-Z2 | 357.8810.52/54 | 2025-03-17 | 2027-03-17 |
| EM154 | SHIELDING ROOM | SIEMENS MATSUSHITA COMPONENTS | N/A | 803-740-057- 99A | 2022-02-06 | 2027-02-06 |
| N/A | MEASUREMENT AND EVALUATION SOFTWARE | ROHDE & SCHWARZ | BSIB-K1 | V1.20 | N/A | N/A |

Remarks:-

N/A Not Applicable or Not Available

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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 27 of 29

Appendix B

Photographs of EUT

View of the product



View of the product



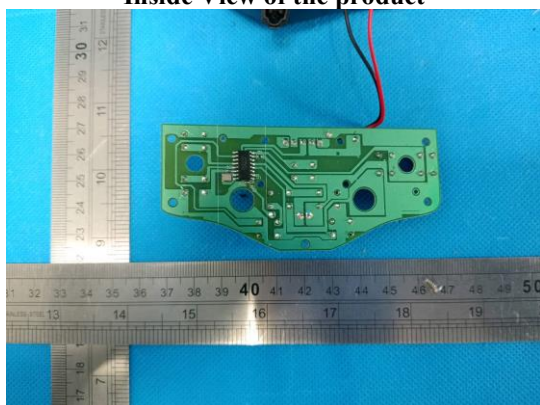
View of the product



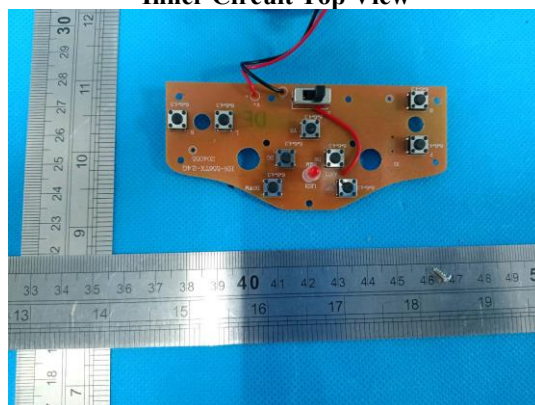
View of the product



Inside View of the product



Inner Circuit Top View



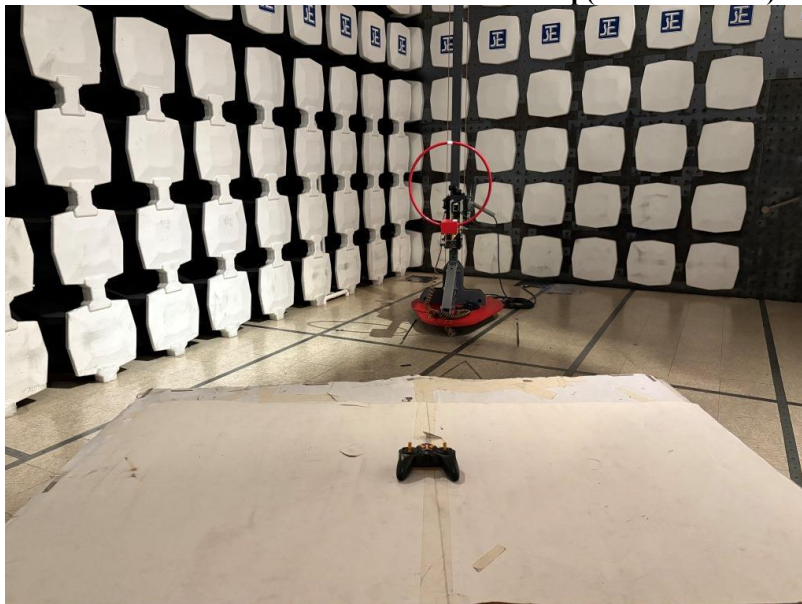
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No. : HMD25050004

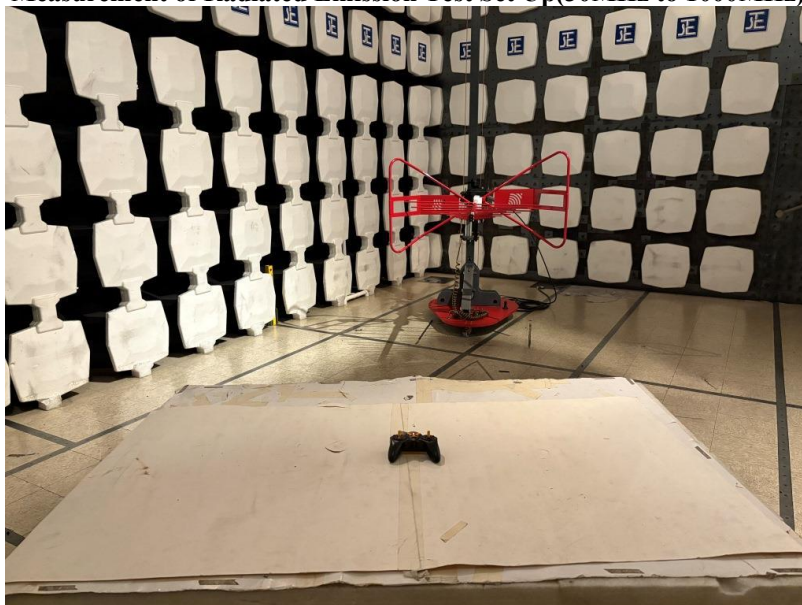
Page 28 of 29

Photographs of EUT

Measurement of Radiated Emission Test Set Up(9kHz – 30MHz)



Measurement of Radiated Emission Test Set Up(30MHz to 1000MHz)



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Test Report

Date : 2025-06-11
No. : HMD25050004

Page 29 of 29

Photographs of EUT

Measurement of Radiated Emission Test Set Up(Above 1000MHz)



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