



Test Report

Date : 2024-06-11
No. : HMD24050006

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Applicant : DERUCCI INTERNATIONAL HOLDINGS LIMITED
Unit 18, 3/F., Wah Yiu Industrial Centre, No.30-32 Au Pui Wan Street, Fotan, Shatin, NT, Hongkong

Supplier / Manufacturer : DERUCCI INTERNATIONAL HOLDINGS LIMITED
Unit 18, 3/F., Wah Yiu Industrial Centre, No.30-32 Au Pui Wan Street, Fotan, Shatin, NT, Hongkong

Description of Sample(s) : Submitted sample(s) said to be
Product: Remote Control
Brand Name: DeRUCCI
Model No.: H158
FCC ID: 2BGRR-H158

Date Samples Received : 2024-05-13

Date Tested : 2024-05-14 to 2024-05-21

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 : 2.4GHz wireless (GFSK)

Test by : Susu


Dr.CHAN Kwok Hung, Brian
Authorized Signatory

The Hong Kong Standards and Testing Centre Limited

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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong
Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Equipment Under Test [EUT]

Description of Sample(s)

Product: Remote Control
Manufacturer: DERUCCI INTERNATIONAL HOLDINGS LIMITED
Unit 18, 3/F., Wah Yiu Industrial Centre, No.30-32 Au Pui Wan Street,
Fotan, Shatin, NT, Hongkong
Brand Name: DeRUCCI
Model Number: H158
Rating: Remote control: 3.0Vd.c.(“AAA” battery *2)

1.3 Description of EUT Operation

The Equipment Under Test (EUT) is a Remote Control. It is a transceiver operating at 2405 MHz~2480MHz and the RF signal was modulated by IC.

RF modulation: GFSK
Antenna gain:-0.95dBi
Antenne type: PCB antenna

1.4 Date of Order

2024-05-13

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2024-05-14 to 2024-05-21

1.7 Country of Origin

China

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1.8 Frequency list

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1 | 2405 | 41 | 2425 | 81 | 2445 | 121 | 2465 |
| 2 | 2405.5 | 42 | 2425.5 | 82 | 2445.5 | 122 | 2465.5 |
| 3 | 2406 | 43 | 2426 | 83 | 2446 | 123 | 2466 |
| 4 | 2406.5 | 44 | 2426.5 | 84 | 2446.5 | 124 | 2466.5 |
| 5 | 2407 | 45 | 2427 | 85 | 2447 | 125 | 2467 |
| 6 | 2407.5 | 46 | 2427.5 | 86 | 2447.5 | 126 | 2467.5 |
| 7 | 2408 | 47 | 2428 | 87 | 2448 | 127 | 2468 |
| 8 | 2408.5 | 48 | 2428.5 | 88 | 2448.5 | 128 | 2468.5 |
| 9 | 2409 | 49 | 2429 | 89 | 2449 | 129 | 2469 |
| 10 | 2409.5 | 50 | 2429.5 | 90 | 2449.5 | 130 | 2469.5 |
| 11 | 2410 | 51 | 2430 | 91 | 2450 | 131 | 2470 |
| 12 | 2410.5 | 52 | 2430.5 | 92 | 2450.5 | 132 | 2470.5 |
| 13 | 2411 | 53 | 2431 | 93 | 2451 | 133 | 2471 |
| 14 | 2411.5 | 54 | 2431.5 | 94 | 2451.5 | 134 | 2471.5 |
| 15 | 2412 | 55 | 2432 | 95 | 2452 | 135 | 2472 |
| 16 | 2412.5 | 56 | 2432.5 | 96 | 2452.5 | 136 | 2472.5 |
| 17 | 2413 | 57 | 2433 | 97 | 2453 | 137 | 2473 |
| 18 | 2413.5 | 58 | 2433.5 | 98 | 2453.5 | 138 | 2473.5 |
| 19 | 2414 | 59 | 2434 | 99 | 2454 | 139 | 2474 |
| 20 | 2414.5 | 60 | 2434.5 | 100 | 2454.5 | 140 | 2474.5 |
| 21 | 2415 | 61 | 2435 | 101 | 2455 | 141 | 2475 |
| 22 | 2415.5 | 62 | 2435.5 | 102 | 2455.5 | 142 | 2475.5 |
| 23 | 2416 | 63 | 2436 | 103 | 2456 | 143 | 2476 |
| 24 | 2416.5 | 64 | 2436.5 | 104 | 2456.5 | 144 | 2476.5 |
| 25 | 2417 | 65 | 2437 | 105 | 2457 | 145 | 2477 |
| 26 | 2417.5 | 66 | 2437.5 | 106 | 2457.5 | 146 | 2477.5 |
| 27 | 2418 | 67 | 2438 | 107 | 2458 | 147 | 2478 |
| 28 | 2418.5 | 68 | 2438.5 | 108 | 2458.5 | 148 | 2478.5 |
| 29 | 2419 | 69 | 2439 | 109 | 2459 | 149 | 2479 |
| 30 | 2419.5 | 70 | 2439.5 | 110 | 2459.5 | 150 | 2479.5 |
| 31 | 2420 | 71 | 2440 | 111 | 2460 | 151 | 2480 |
| 32 | 2420.5 | 72 | 2440.5 | 112 | 2460.5 | | |
| 33 | 2421 | 73 | 2441 | 113 | 2461 | | |
| 34 | 2421.5 | 74 | 2441.5 | 114 | 2461.5 | | |
| 35 | 2422 | 75 | 2442 | 115 | 2462 | | |
| 36 | 2422.5 | 76 | 2442.5 | 116 | 2462.5 | | |
| 37 | 2423 | 77 | 2443 | 117 | 2463 | | |
| 38 | 2423.5 | 78 | 2443.5 | 118 | 2463.5 | | |
| 39 | 2424 | 79 | 2444 | 119 | 2464 | | |
| 40 | 2424.5 | 80 | 2444.5 | 120 | 2464.5 | | |

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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.

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 | 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 type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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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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: | 2024-05-15 |
| 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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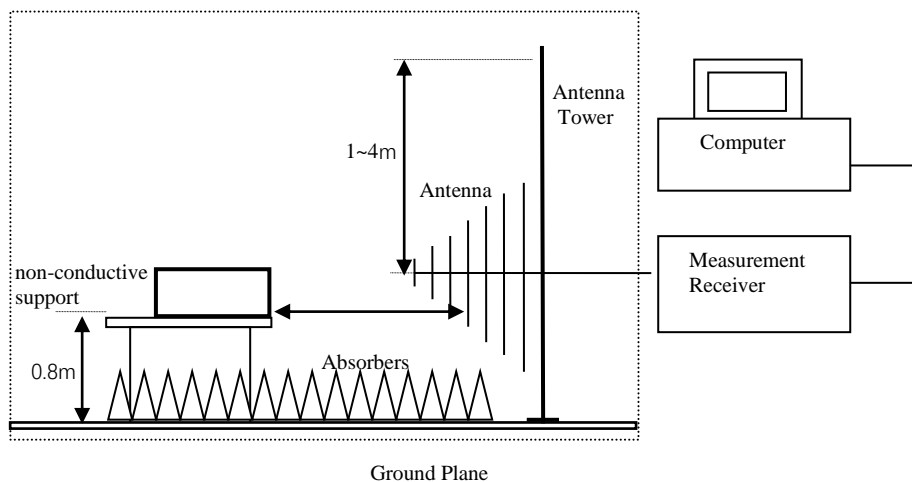
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Spectrum Analyzer Setting:

| | |
|------------------------|---|
| 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) | RBW: 1MHz VBW: 1MHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold |
| Above 1GHz (Av) | RBW: 1MHz VBW: 10Hz 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.

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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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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 | 92.6 | -4.8 | 87.8 | 24,603.7 | 500,000 | Vertical |
| 2405.00 | 102.2 | -4.7 | 97.5 | 75,075.8 | 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 | 87.0 | -4.8 | 82.2 | 12,882.5 | 50,000 | Vertical |
| 2405.00 | 97.1 | -4.7 | 92.4 | 41,686.9 | 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 | 56.1 | 0.8 | 56.9 | 701.5 | 5,000 | Vertical |
| 4810.0 | 57.0 | 0.5 | 57.5 | 749.9 | 5,000 | Horizontal |
| 7215.0 | 49.8 | 7.0 | 56.8 | 691.8 | 5,000 | Vertical |
| 7215.0 | 50.1 | 6.5 | 56.6 | 676.1 | 5,000 | Horizontal |
| 9620.0 | 46.4 | 8.5 | 54.9 | 555.9 | 5,000 | Vertical |
| 9620.0 | 45.8 | 8.3 | 54.1 | 507.0 | 5,000 | Horizontal |
| 12025.0 | 44.8 | 10.9 | 55.7 | 609.5 | 5,000 | Vertical |
| 12025.0 | 44.9 | 10.8 | 55.7 | 609.5 | 5,000 | Horizontal |

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| Field Strength of Harmonics Emission 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 |
| 4810.0 | 42.6 | 0.8 | 43.5 | 148.8 | 500 | Vertical |
| 4810.0 | 42.1 | 0.5 | 42.6 | 134.1 | 500 | Horizontal |
| 7215.0 | 36.6 | 7.0 | 43.6 | 150.7 | 500 | Vertical |
| 7215.0 | 35.6 | 6.5 | 42.1 | 126.9 | 500 | Horizontal |
| 9620.0 | 32.9 | 8.5 | 41.4 | 117.5 | 500 | Vertical |
| 9620.0 | 32.6 | 8.3 | 40.9 | 110.9 | 500 | Horizontal |
| 12025.0 | 30.8 | 10.9 | 41.7 | 121.6 | 500 | Vertical |
| 12025.0 | 30.4 | 10.8 | 41.2 | 114.8 | 500 | Horizontal |

Results of Tx mode (Middle Frequency Channel- 2440MHz): 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 |
| 2440.00 | 92.4 | -4.8 | 87.6 | 23,988.3 | 500,000 | Vertical |
| 2440.00 | 101.7 | -4.7 | 97.0 | 70,794.6 | 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 |
| 2440.00 | 87.1 | -4.8 | 82.3 | 13,031.7 | 50,000 | Vertical |
| 2440.00 | 96.2 | -4.7 | 91.5 | 37,583.7 | 50,000 | Horizontal |

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| 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 |
| 4880.0 | 56.2 | 0.8 | 57.0 | 709.6 | 5,000 | Vertical |
| 4880.0 | 57.2 | 0.5 | 57.7 | 770.9 | 5,000 | Horizontal |
| 7320.0 | 49.5 | 7.0 | 56.5 | 668.3 | 5,000 | Vertical |
| 7320.0 | 50.4 | 6.5 | 56.9 | 699.8 | 5,000 | Horizontal |
| 9760.0 | 46.9 | 8.5 | 55.4 | 588.8 | 5,000 | Vertical |
| 9760.0 | 47.2 | 8.3 | 55.5 | 595.7 | 5,000 | Horizontal |
| 12200.0 | 45.2 | 10.9 | 56.1 | 638.3 | 5,000 | Vertical |
| 12200.0 | 44.8 | 10.8 | 55.6 | 602.6 | 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 |
| 4880.0 | 42.6 | 0.8 | 43.5 | 148.8 | 500 | Vertical |
| 4880.0 | 41.7 | 0.5 | 42.2 | 128.7 | 500 | Horizontal |
| 7320.0 | 35.2 | 7.0 | 42.2 | 128.2 | 500 | Vertical |
| 7320.0 | 36.4 | 6.5 | 42.9 | 139.6 | 500 | Horizontal |
| 9760.0 | 32.1 | 8.5 | 40.6 | 107.2 | 500 | Vertical |
| 9760.0 | 32.7 | 8.3 | 41.0 | 112.2 | 500 | Horizontal |
| 12200.0 | 31.0 | 10.9 | 41.9 | 124.5 | 500 | Vertical |
| 12200.0 | 30.5 | 10.8 | 41.3 | 116.1 | 500 | Horizontal |

Results of Tx mode (Highest Frequency Channel – 2480MHz): 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 |
| 2480.00 | 94.8 | -4.8 | 90.0 | 31,477.5 | 500,000 | Vertical |
| 2480.00 | 103.2 | -4.7 | 98.5 | 84,139.5 | 500,000 | Horizontal |

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| 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 |
| 2480.00 | 89.5 | -4.8 | 84.7 | 17,179.1 | 50,000 | Vertical |
| 2480.00 | 97.6 | -4.7 | 92.9 | 44,157.0 | 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 |
| 4960.0 | 56.2 | 0.8 | 57.0 | 709.6 | 5,000 | Vertical |
| 4960.0 | 57.4 | 0.5 | 57.9 | 785.2 | 5,000 | Horizontal |
| 7440.0 | 49.3 | 7.0 | 56.3 | 653.1 | 5,000 | Vertical |
| 7440.0 | 50.8 | 6.5 | 57.3 | 732.8 | 5,000 | Horizontal |
| 9920.0 | 46.7 | 8.5 | 55.2 | 575.4 | 5,000 | Vertical |
| 9920.0 | 46.2 | 8.3 | 54.5 | 530.9 | 5,000 | Horizontal |
| 12400.0 | 44.9 | 10.9 | 55.8 | 616.6 | 5,000 | Vertical |
| 12400.0 | 44.3 | 10.8 | 55.1 | 568.9 | 5,000 | Horizontal |

| Field Strength of Harmonics Emission | | | | | | |
|--------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--------------------------------|------------------------|---------------------|
| 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 |
| 4960.0 | 42.2 | 0.8 | 43.0 | 141.7 | 500 | Vertical |
| 4960.0 | 42.7 | 0.5 | 43.2 | 144.4 | 500 | Horizontal |
| 7440.0 | 35.6 | 7.0 | 42.6 | 134.6 | 500 | Vertical |
| 7440.0 | 36.4 | 6.5 | 42.9 | 139.6 | 500 | Horizontal |
| 9920.0 | 32.5 | 8.5 | 41.0 | 112.2 | 500 | Vertical |
| 9920.0 | 32.3 | 8.3 | 40.6 | 107.2 | 500 | Horizontal |
| 12400.0 | 30.7 | 10.9 | 41.6 | 120.2 | 500 | Vertical |
| 12400.0 | 30.3 | 10.8 | 41.1 | 113.5 | 500 | Horizontal |

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Radiated Emissions Measurement:

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

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

| Peak Value | | | | | | |
|------------------|-------------------------------|------------------------------|-----------------------------|------------------------|------------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dBμV/m | E-Field Polarity |
| 2400.0 | 63.6 | -4.8 | 58.8 | 74.0 | 15.2 | Vertical |
| 2400.0 | 72.5 | -4.7 | 67.8 | 74.0 | 6.2 | Horizontal |

| Average Value | | | | | | |
|------------------|-------------------------------|------------------------------|-----------------------------|------------------------|------------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dBμV/m | E-Field Polarity |
| 2400.0 | 52.2 | -4.8 | 47.4 | 54.0 | 6.7 | Vertical |
| 2400.0 | 55.8 | -4.7 | 51.1 | 54.0 | 2.9 | Horizontal |

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

| Peak Value | | | | | | |
|------------------|-------------------------------|------------------------------|-----------------------------|------------------------|------------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dBμV/m | E-Field Polarity |
| 2483.5 | 67.9 | -4.8 | 63.1 | 74.0 | 10.9 | Vertical |
| 2483.5 | 74.2 | -4.7 | 69.5 | 74.0 | 4.5 | Horizontal |

| Average Value | | | | | | |
|------------------|-------------------------------|------------------------------|-----------------------------|------------------------|------------------|---------------------|
| Frequency MHz | Measured Level @3m dBμV | Correction Factor dB/m | Field Strength dBμV/m | Limit @3m dBμV/m | Margin dBμV/m | E-Field Polarity |
| 2483.5 | 52.3 | -4.8 | 47.5 | 54.0 | 6.5 | Vertical |
| 2483.5 | 56.2 | -4.7 | 51.5 | 54.0 | 2.5 | Horizontal |

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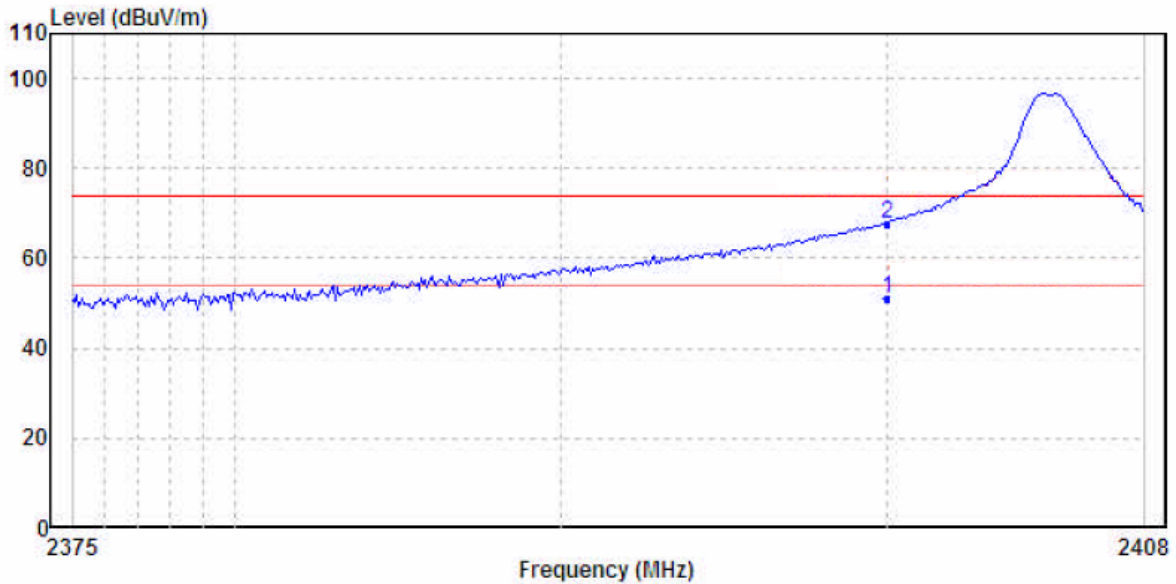
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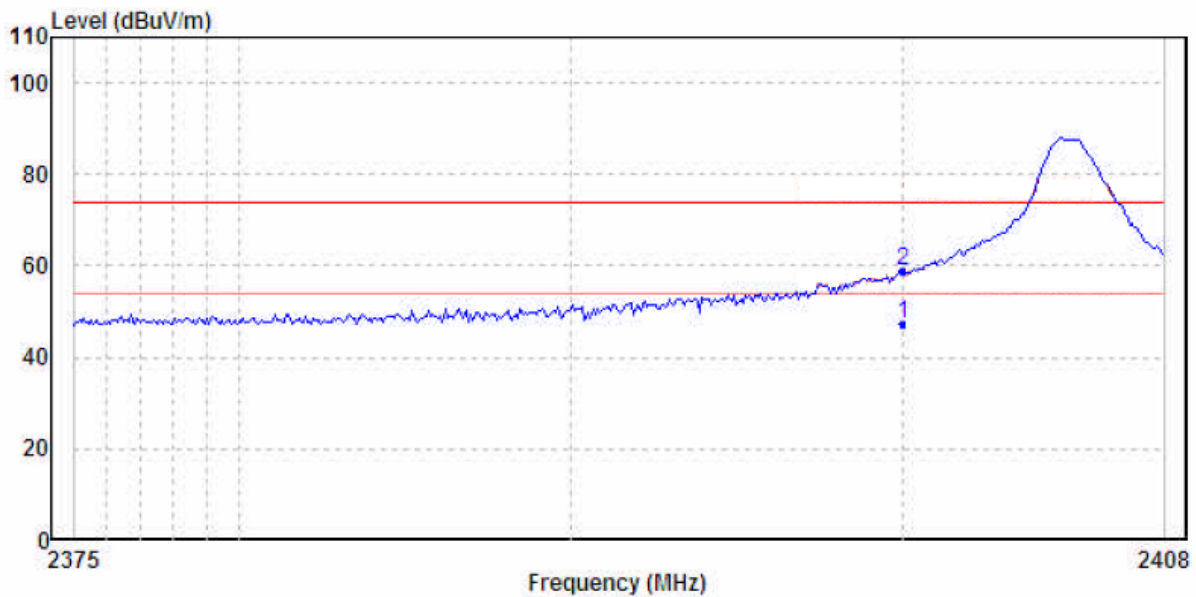
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Emissions radiated outside of the specified frequency bands (Lowest)

Horizontal



Vertical



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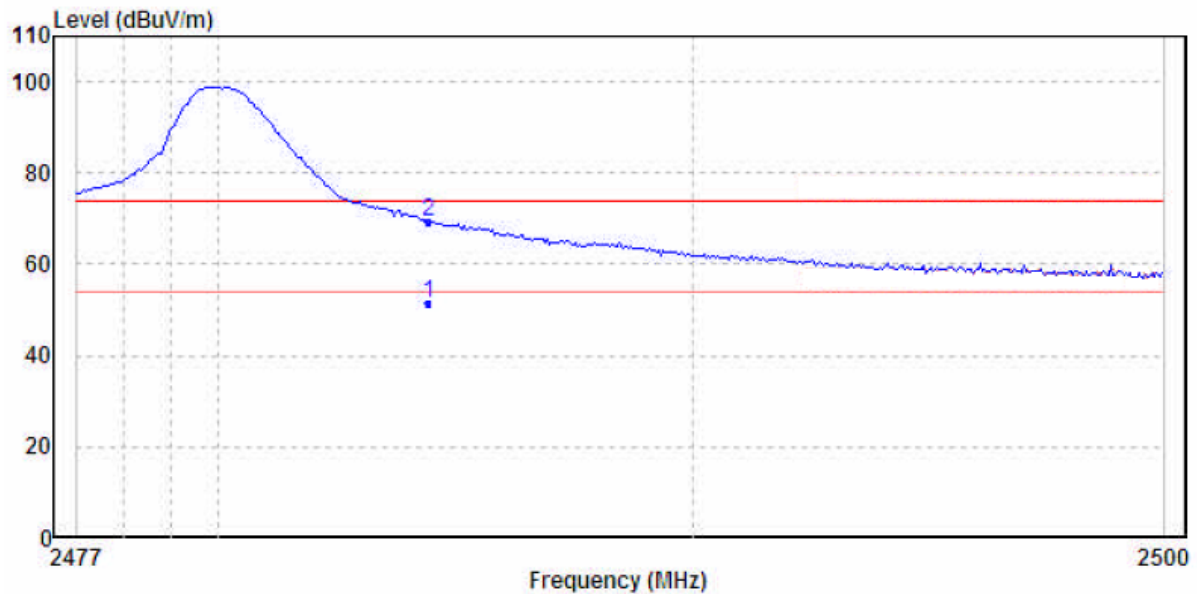
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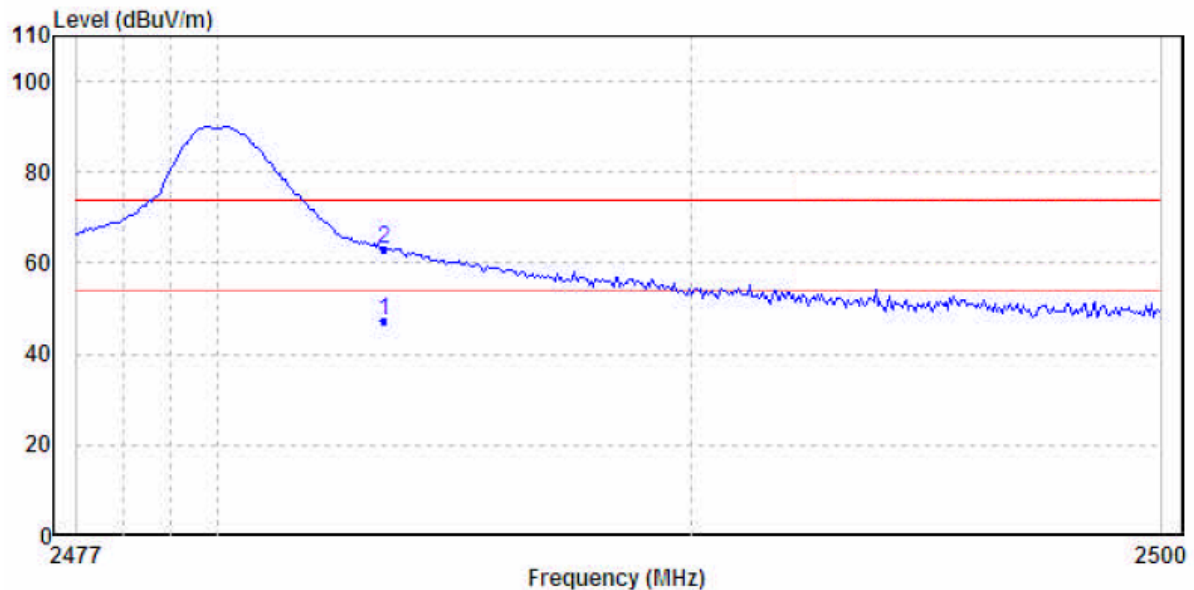
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Emissions radiated outside of the specified frequency bands (Highest)

Horizontal



Vertical



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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, not reported.

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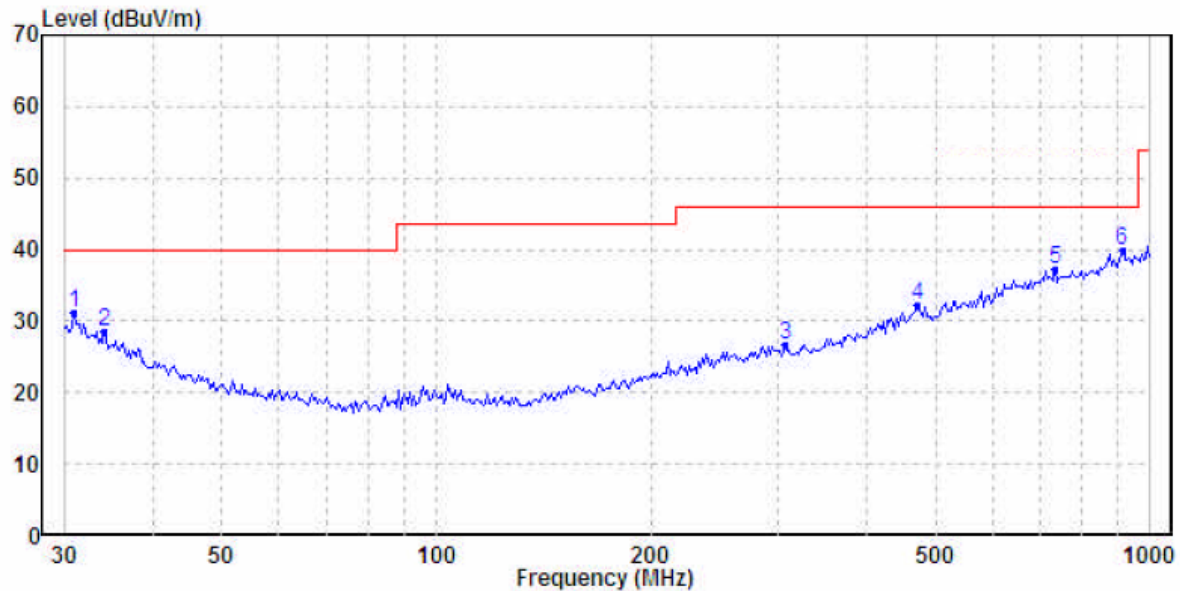
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Results of TX mode (30MHz – 1GHz)(2405MHz worst case): PASS

Horizontal



Ambient Temperature: 23.7C
Relative Humidity : 53.8%
Air Pressure : 100.9kPa

| | Freq | Level | Limit | Over | Remark | Pol/Phase |
|---|---------|--------|--------|--------|--------|------------|
| | MHz | dBuV/m | Line | Limit | | |
| | | | dBuV/m | dB | | |
| 1 | 31.071 | 31.12 | 40.00 | -8.88 | QP | Horizontal |
| 2 | 34.276 | 28.41 | 40.00 | -11.59 | QP | Horizontal |
| 3 | 307.831 | 26.69 | 46.00 | -19.31 | QP | Horizontal |
| 4 | 472.176 | 32.16 | 46.00 | -13.84 | QP | Horizontal |
| 5 | 734.491 | 37.30 | 46.00 | -8.70 | QP | Horizontal |
| 6 | 912.862 | 39.85 | 46.00 | -6.15 | QP | Horizontal |

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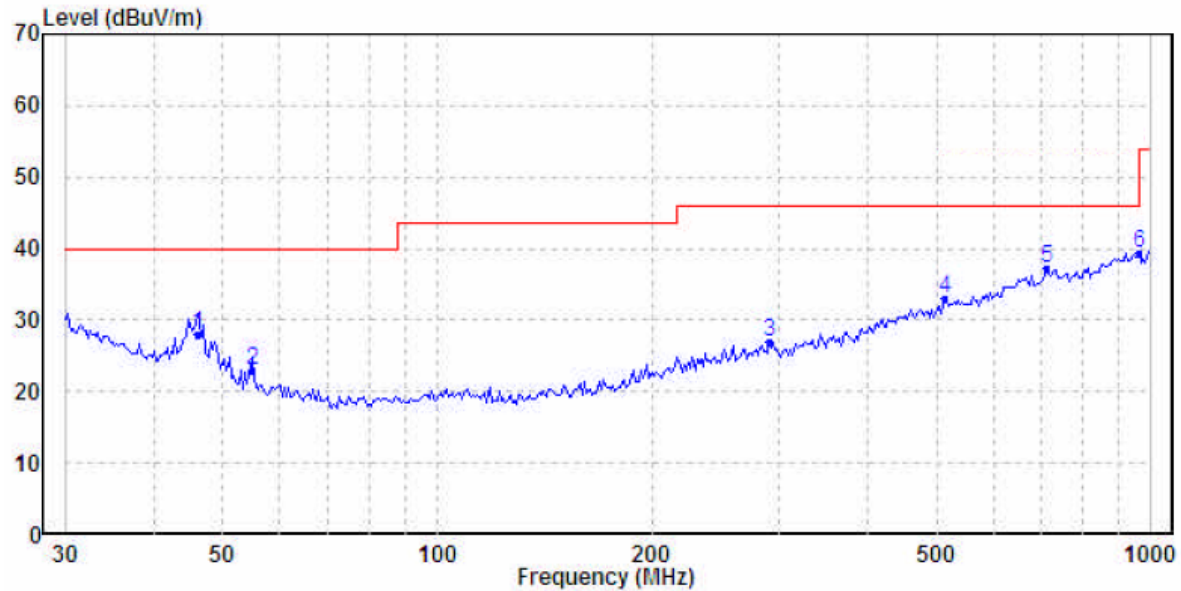
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Results of TX mode (30MHz – 1GHz) (2405MHz worst case): PASS

Vertical



Ambient Temperature: 23.7C
Relative Humidity : 53.8%
Air Pressure : 100.9kPa

| | Freq | Level | Limit | Over | Remark | Pol/Phase |
|---|---------|--------|--------|--------|--------|-----------|
| | MHz | dBuV/m | dBuV/m | Limit | | |
| 1 | 46.016 | 28.03 | 40.00 | -11.97 | QP | Vertical |
| 2 | 54.835 | 22.94 | 40.00 | -17.06 | QP | Vertical |
| 3 | 291.036 | 27.01 | 46.00 | -18.99 | QP | Vertical |
| 4 | 513.633 | 32.99 | 46.00 | -13.01 | QP | Vertical |
| 5 | 714.173 | 37.37 | 46.00 | -8.63 | QP | Vertical |
| 6 | 958.794 | 39.38 | 46.00 | -6.62 | QP | Vertical |

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3.1.2 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 PCB antenna. There is no external antenna, the antenna gain $\approx -0.95\text{dBi}$. User is unable to remove or changed the Antenna.

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3.1.3 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: 2024-05-16
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.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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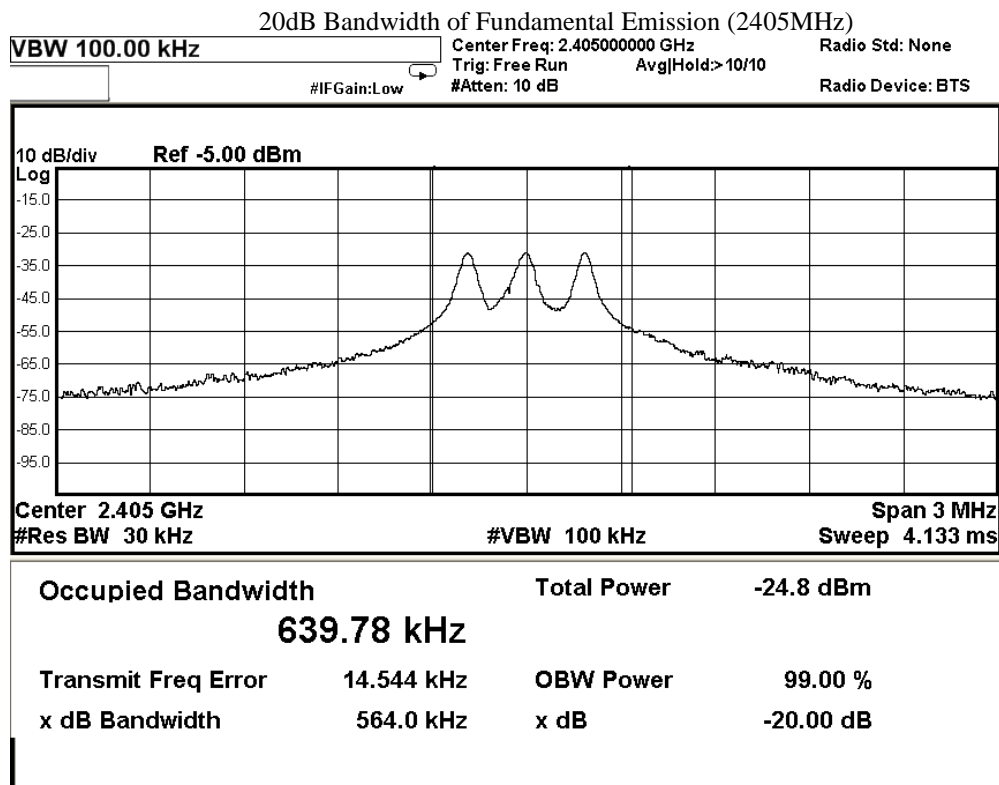
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Limits for 20dB Bandwidth of Fundamental Emission (Low Frequency Channel):

| Frequency Range [MHz] | 20dB Bandwidth [MHz] |
|--------------------------|-------------------------|
| 2405.0 | 0.564 |



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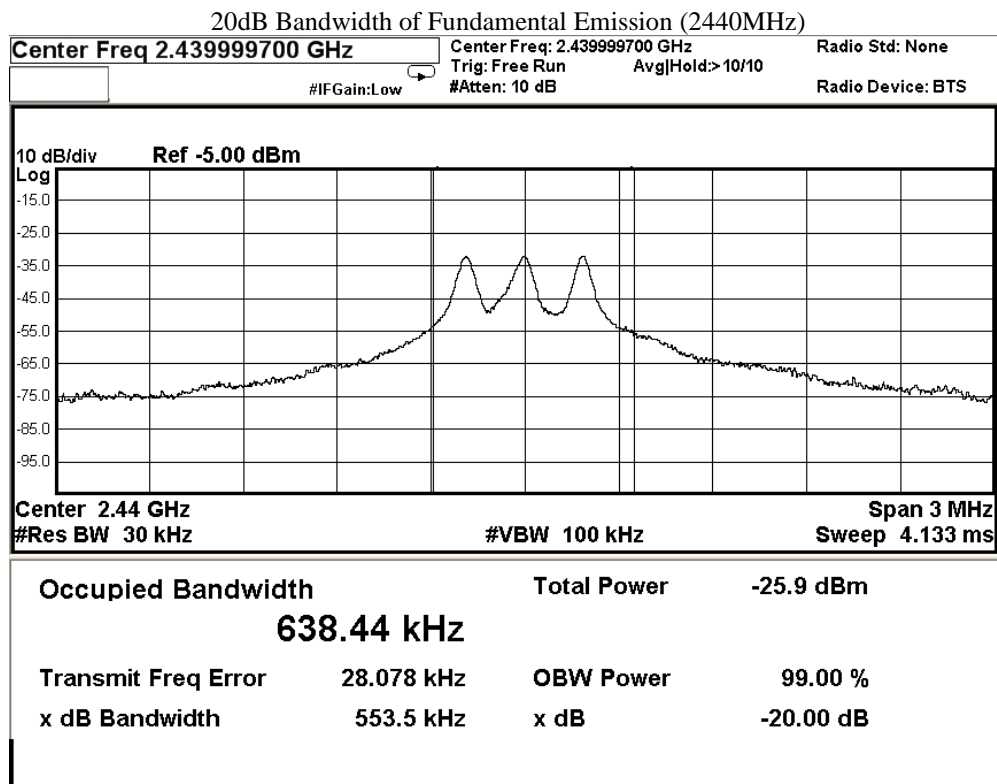
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Limits for 20dB Bandwidth of Fundamental Emission (Middle Frequency Channel):

| Frequency Range [MHz] | 20dB Bandwidth [MHz] |
|--------------------------|-------------------------|
| 2440.0 | 0.5535 |



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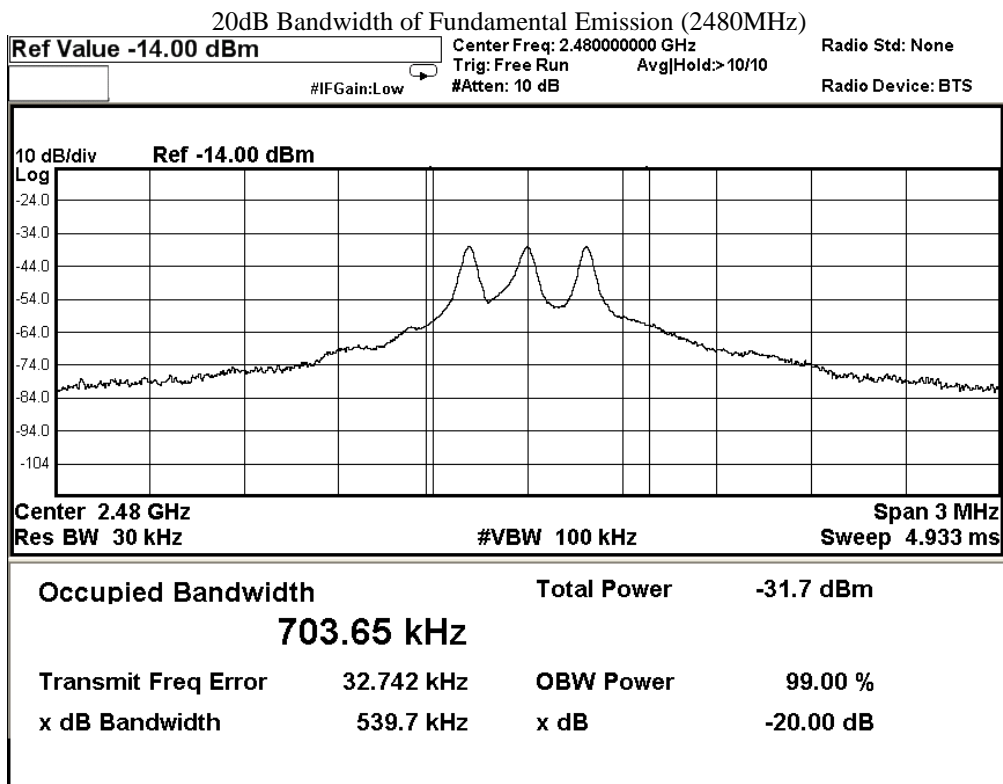
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Limits for 20dB Bandwidth of Fundamental Emission (High Frequency Channel):

| Frequency Range [MHz] | 20dB Bandwidth [MHz] |
|--------------------------|-------------------------|
| 2480.0 | 0.5397 |



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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 | 2023-03-21 | 2025-03-21 |
| EM299 | BROADBAND HORN ANTENNA | ETS-LINDGREN | 3115 | 00114120 | 2023-01-25 | 2025-01-25 |
| EM300 | PYRAMIDAL STANDARD GAIN HORN ANTENNA | ETS-LINDGREN | 3160-09 | 00130130 | 2023-01-16 | 2025-01-16 |
| EM301 | PYRAMIDAL STANDARD GAIN HORN ANTENNA | ETS-LINDGREN | 3160-10 | 00130988 | 2023-02-15 | 2025-02-15 |
| EM353 | LOOP ANTENNA | ETS_LINDGREN | 6502 | 00206533 | 2022-09-26 | 2024-09-26 |
| EM355 | BICONILOG ANTENNA | ETS-LINDGREN | 3143B | 00094856 | 2022-08-26 | 2024-08-26 |
| EM200 | DUAL CHANNEL POWER METER | R & S | NRVD | 100592 | 2023-08-02 | 2025-08-02 |
| EM012 | PRE-AMPLIFIER | HP | HP8448B | 3008A00262 | 2022-11-08 | 2025-11-08 |
| EM215 | MULTIDEVICE CONTROLLER | EMCO | 2090 | 00024676 | N/A | N/A |

Remarks:-

N/A Not Applicable or Not Available

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Appendix B Photographs of EUT

Front View of the product



Rear View of the product



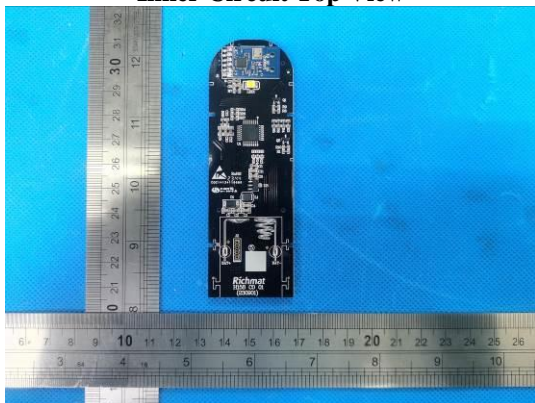
Inner Circuit Top View



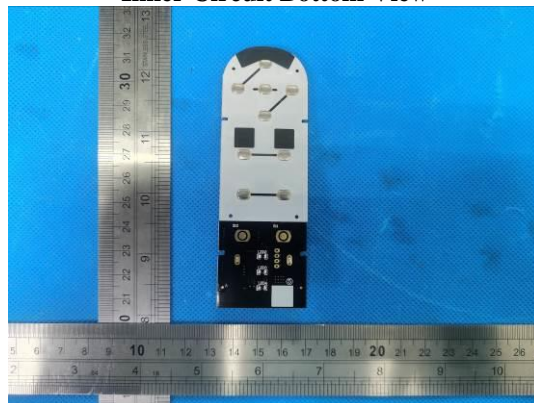
Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



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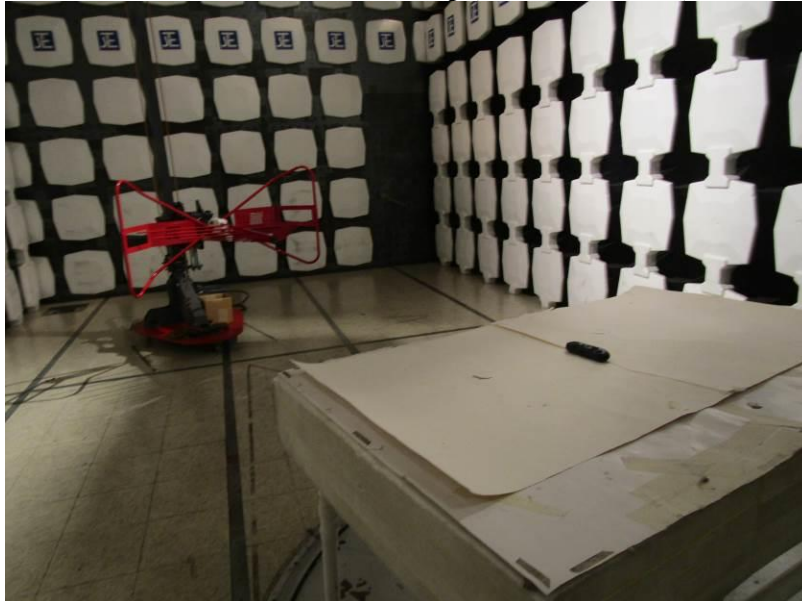
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Photographs of EUT

Radiated emissions test set up (9KHz-30MHz)



Radiated emissions test set up (30MHz-1000MHz)



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Photographs of EUT

Radiated emissions test set up (Above 1GHz)



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12. Issuance records of the Report are available on the internet at www.stc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.