

# FCC TEST REPORT

FCC ID : HV4STU540A  
Equipment : LCD SIGNATURE PAD  
Brand Name : Wacom  
Model Name : STU-540、STU-540\*\*\*\*\*(\*may be alphanumeric/symbol or blank)  
Applicant : Wacom Co., Ltd.  
2-510-1, Toyonodai, Kazo-shi, Saitama, 349-1148 Japan  
Manufacturer : Wacom Co., Ltd.  
2-510-1, Toyonodai, Kazo-shi, Saitama, 349-1148 Japan  
Standard : 47 CFR FCC Part 15.209

The product was received on Feb. 06, 2026, and testing was started from Apr. 13, 2026 and completed on Apr. 21, 2026. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

  
Approved by: Jackson Tsai

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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## History of this test report

| Report No. | Version | Description             | Issued Date  |
|------------|---------|-------------------------|--------------|
| FR620412AP | 01      | Initial issue of report | May 05, 2026 |
|            |         |                         |              |
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## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                        | Result (PASS/FAIL) | Remark |
|---------------|-----------------|-----------------------------------|--------------------|--------|
| 1.1.2         | 15.203          | Antenna Requirement               | PASS               | -      |
| 3.1           | 15.207          | AC Power-line Conducted Emissions | PASS               | -      |
| 3.2           | 15.209          | Transmitter Radiated Emissions    | PASS               | -      |
| 3.3           | 15.215(c)       | Emission Bandwidth                | PASS               | -      |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

None.

Reviewed by: Daniel Hsu

Report Producer: Wendy Chen

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| RF General Information                             |                    |                |                            |                             |
|----------------------------------------------------|--------------------|----------------|----------------------------|-----------------------------|
| Modulation                                         | Ch. Frequency(kHz) | Channel Number | Field Strength (dBuV/m@1m) | Field Strength (dBuV/m@30m) |
| ASK                                                | 531.25/562.5       | 2              | 59.07                      | -0.01                       |
| Note 1: Field strength performed peak level at 1m. |                    |                |                            |                             |

### 1.1.2 Antenna Information

| Antenna Category                    |                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Integral antenna (antenna permanently attached)                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | Temporary RF connector provided                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | No temporary RF connector provided<br>Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path. |
| <input type="checkbox"/>            | External antenna (dedicated antennas)                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/>            | Single power level with corresponding antenna(s).                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/>            | Multiple power level and corresponding antenna(s).                                                                                                                                                                                                                                                                |

| Ant. | Brand | Model Name | Antenna Type        | Connector |
|------|-------|------------|---------------------|-----------|
| 1    | N/A   | PWB-F230   | Array coil Pointing | N/A       |

### 1.1.3 Type of EUT

| Operational Condition               |                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Power Type</b>               | From Host System                                                                                                                  |
| Type of EUT                         |                                                                                                                                   |
| <input checked="" type="checkbox"/> | Stand-alone                                                                                                                       |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device)<br>Combined Equipment - Brand Name / Model No.: ... |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)<br>Host System - Brand Name / Model No.: ...                           |
| <input type="checkbox"/>            | Other:                                                                                                                            |

### 1.1.4 Test Signal Duty Cycle

| Operated Mode for Worst Duty Cycle  |                                           |
|-------------------------------------|-------------------------------------------|
| <input checked="" type="checkbox"/> | Operated normal mode for worst duty cycle |
| <input type="checkbox"/>            | Operated test mode for worst duty cycle   |
| Test Signal Duty Cycle (x)          |                                           |
| <input checked="" type="checkbox"/> | 100.00%                                   |

### 1.1.5 Table for Multiple Listing

| Model Name                                                     | Description                                                                      |
|----------------------------------------------------------------|----------------------------------------------------------------------------------|
| STU-540、STU-540*****<br>(*may be alphanumeric/symbol or blank) | All the models are identical, the difference model served as marketing strategy. |

Note: The model STU-540 was measured during the test.

## 1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Test Lab. : Sporton International Inc. Hsinhua Laboratory  |                                                                                         |               |                     |             |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|---------------------|-------------|
| <input checked="" type="checkbox"/> Hsinhua<br>(TAF: 3785) | ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)          |               |                     |             |
|                                                            | TEL: 886-3-327-3456                                                                     |               | FAX: 886-3-327-0973 |             |
| Test site Designation No. TW3785 with FCC.                 |                                                                                         |               |                     |             |
| Test Condition                                             | Test Site No.                                                                           | Test Engineer | Test Environment    | Test Date   |
| AC Conduction                                              | CO04-HY                                                                                 | Lego Lin      | 17.5~19.2℃ / 57~61% | 18/Apr/2026 |
| RF Conducted                                               | TH07-HY                                                                                 | Raven Chien   | 23.4~23.9℃ / 52~55% | 21/Apr/2026 |
| Radiated                                                   | 03CH03-HY                                                                               | Ian Liou      | 21.8~22.4℃ / 51~56% | 13/Apr/2026 |
| <input type="checkbox"/> Wen 33rd.St.<br>(TAF: 3785)       | ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) |               |                     |             |
|                                                            | TEL: 886-3-318-0787                                                                     |               | FAX: 886-3-318-0287 |             |
| Test site Designation No. TW0008 with FCC.                 |                                                                                         |               |                     |             |

## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Test Items                         | Uncertainty | Remark                   |
|------------------------------------|-------------|--------------------------|
| AC Power-line Conducted Emissions  | 3.44 dB     | Confidence levels of 95% |
| Conducted Emission                 | 1.48 dB     | Confidence levels of 95% |
| Radiated Emission (9 kHz ~ 30 MHz) | 2.9 dB      | Confidence levels of 95% |
| Radiated Emission (30 MHz ~ 1 GHz) | 5.64 dB     | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Condition

| Condition Item | Abbreviation/Remark | Remark |
|----------------|---------------------|--------|
| Tnom Vnom      | Tnom                | 20°C   |
| -              | Vnom                | 5V     |

### 2.2 The Worst Case Configuration

| Mode              | Test Channel Frequencies(kHz) | Field Strength (dBuV/m@1m) | Field Strength (dBuV/m@30m) |
|-------------------|-------------------------------|----------------------------|-----------------------------|
| LCD SIGNATURE PAD | 531.25/562.5                  | 59.07                      | -0.01                       |

### 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                          |
|-----------------------------------------------------|----------------------------------------------------------|
| Tests Item                                          | AC power-line conducted emissions                        |
| Condition                                           | AC power-line conducted measurement for line and neutral |
| Operating Mode                                      | CTX                                                      |
| 1                                                   | USB Mode                                                 |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                |                                                                                     |                                                                                       |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tests Item                                          | Emission Bandwidth, Field Strength of Fundamental Emissions<br>Transmitter Radiated Unwanted Emissions                                                         |                                                                                     |                                                                                       |
| Test Condition                                      | Radiated measurement                                                                                                                                           |                                                                                     |                                                                                       |
| User Position                                       | <input type="checkbox"/> EUT will be placed in fixed position.                                                                                                 |                                                                                     |                                                                                       |
|                                                     | <input checked="" type="checkbox"/> EUT will be placed in mobile position and operating multiple positions.<br>EUT shall be performed three orthogonal planes. |                                                                                     |                                                                                       |
|                                                     | <input type="checkbox"/> EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.                                        |                                                                                     |                                                                                       |
| Operating Mode                                      | CTX                                                                                                                                                            |                                                                                     |                                                                                       |
| 1                                                   | USB Mode                                                                                                                                                       |                                                                                     |                                                                                       |
| Orthogonal Planes of EUT                            | X Plane                                                                                                                                                        | Y Plane                                                                             | Z Plane                                                                               |
|                                                     |                                                                             |  |  |
| Worst Planes of EUT                                 | V                                                                                                                                                              |                                                                                     |                                                                                       |

## 2.4 Accessory

| Accessories Information |             |                                                |            |                |
|-------------------------|-------------|------------------------------------------------|------------|----------------|
| Digital Pen             | Brand Name  | Wacom                                          | Model Name | UP-6710-03A-2  |
| Panel                   | Brand Name  | TIANMA                                         | Model Name | TM050RDHG04-00 |
| USB Cable               | Brand Name  | -                                              | Model Name | -              |
|                         | Signal Line | 3.0 meter, D-shielded cable, with ferrite core |            |                |

Reminder: Regarding to more detail and other information, please refer to user manual.

## 2.5 Support Equipment

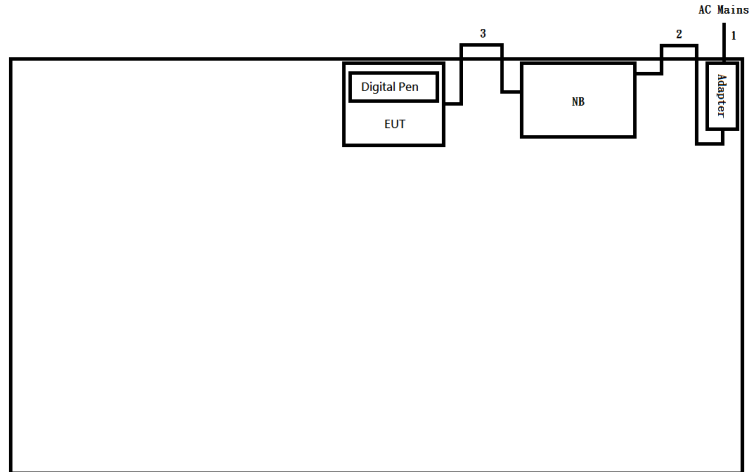
| Support Equipment – AC Conduction |                      |            |            |        |        |
|-----------------------------------|----------------------|------------|------------|--------|--------|
| No.                               | Equipment            | Brand Name | Model Name | FCC ID | Remark |
| 1                                 | Notebook             | HP         | HSTNN-142C | -      | -      |
| 2                                 | Adapter for notebook | HP         | HSTNN-CA40 | -      | -      |
| 3                                 | AC Power cable       | Power sync | TPCMRN0018 | -      | -      |

| Support Equipment – Conducted |                |            |            |        |        |
|-------------------------------|----------------|------------|------------|--------|--------|
| No.                           | Equipment      | Brand Name | Model Name | FCC ID | Remark |
| 1                             | Notebook       | DELL       | E5410      | -      | -      |
| 2                             | Adapter for NB | DELL       | HA65NM130  | -      | -      |

| Support Equipment – Radiated |                      |            |            |        |        |
|------------------------------|----------------------|------------|------------|--------|--------|
| No.                          | Equipment            | Brand Name | Model Name | FCC ID | Remark |
| 1                            | Notebook             | HP         | HSTNN-142C | -      | -      |
| 2                            | Adapter for notebook | HP         | HSTNN-CA40 | -      | -      |
| 3                            | AC Power cable       | Power sync | TPCMRN0018 | -      | -      |

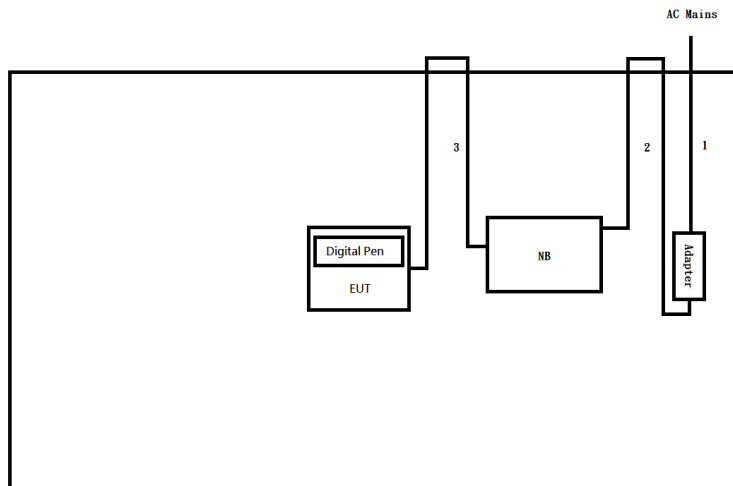
## 2.6 Test Setup Diagram

**Test Setup Diagram – AC Line Conducted Emission Test**



| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power Cable | No       | 1.8       | -      |
| 2    | DC Power Cable | No       | 1.8       | -      |
| 3    | USB Cable      | Yes      | 3.0       | -      |

**Test Setup Diagram - Radiated Test**



| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power Cable | No       | 1.8       | -      |
| 2    | DC Power Cable | No       | 1.8       | -      |
| 3    | USB Cable      | Yes      | 3.0       | -      |

### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit |            |           |
|-----------------------------------------|------------|-----------|
| Frequency Emission (MHz)                | Quasi-Peak | Average   |
| 0.15-0.5                                | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                   | 56         | 46        |
| 5-30                                    | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

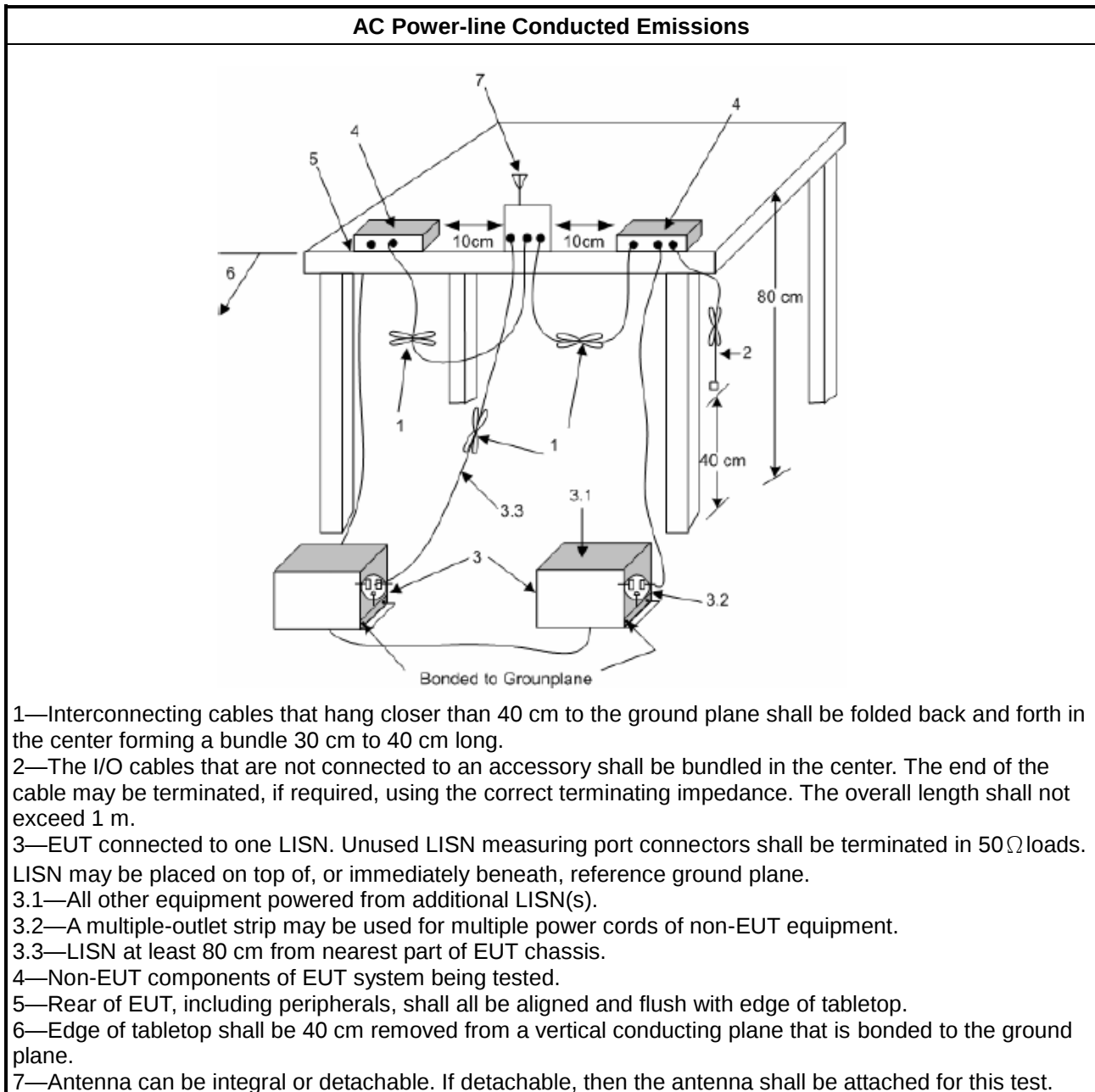
| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input checked="" type="checkbox"/> | If AC conducted emissions fall in operating band, then following below test method confirm final result.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>            | Accept measurements done with a suitable dummy load replacing the antenna under the following conditions:<br>(1) Perform the AC line conducted tests with the antenna connected to determine compliance with FCC 15.207 limits outside the transmitter's fundamental emission band;<br>(2) Retest with a dummy load to determine compliance with FCC 15.207 limits within the transmitter's fundamental emission band.                                                                                                                          |
| <input checked="" type="checkbox"/> | For a device with a permanent antenna operating at or below 30 MHz, accept measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions:<br>(1) Perform the AC line conducted tests with the permanent antenna to determine compliance with the FCC 15.207 limits outside the transmitter's fundamental emission band;<br>(2) Retest with a dummy load in lieu of the permanent antenna to determine compliance with the FCC 15.207 limits within the transmitter's fundamental emission band. |

##### 3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

### 3.1.5 Test Setup



### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

## 3.2 Transmitter Radiated Emissions

### 3.2.1 Transmitter Radiated Emissions Limit

| Transmitter Radiated Emissions Limit |                       |                         |                      |
|--------------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)                | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                          | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                          | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                           | 30                    | 29                      | 30                   |
| 30~88                                | 100                   | 40                      | 3                    |
| 88~216                               | 150                   | 43.5                    | 3                    |
| 216~960                              | 200                   | 46                      | 3                    |
| Above 960                            | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: the frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 1GHz measurements employing a CISPR quasi-peak detector.

### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

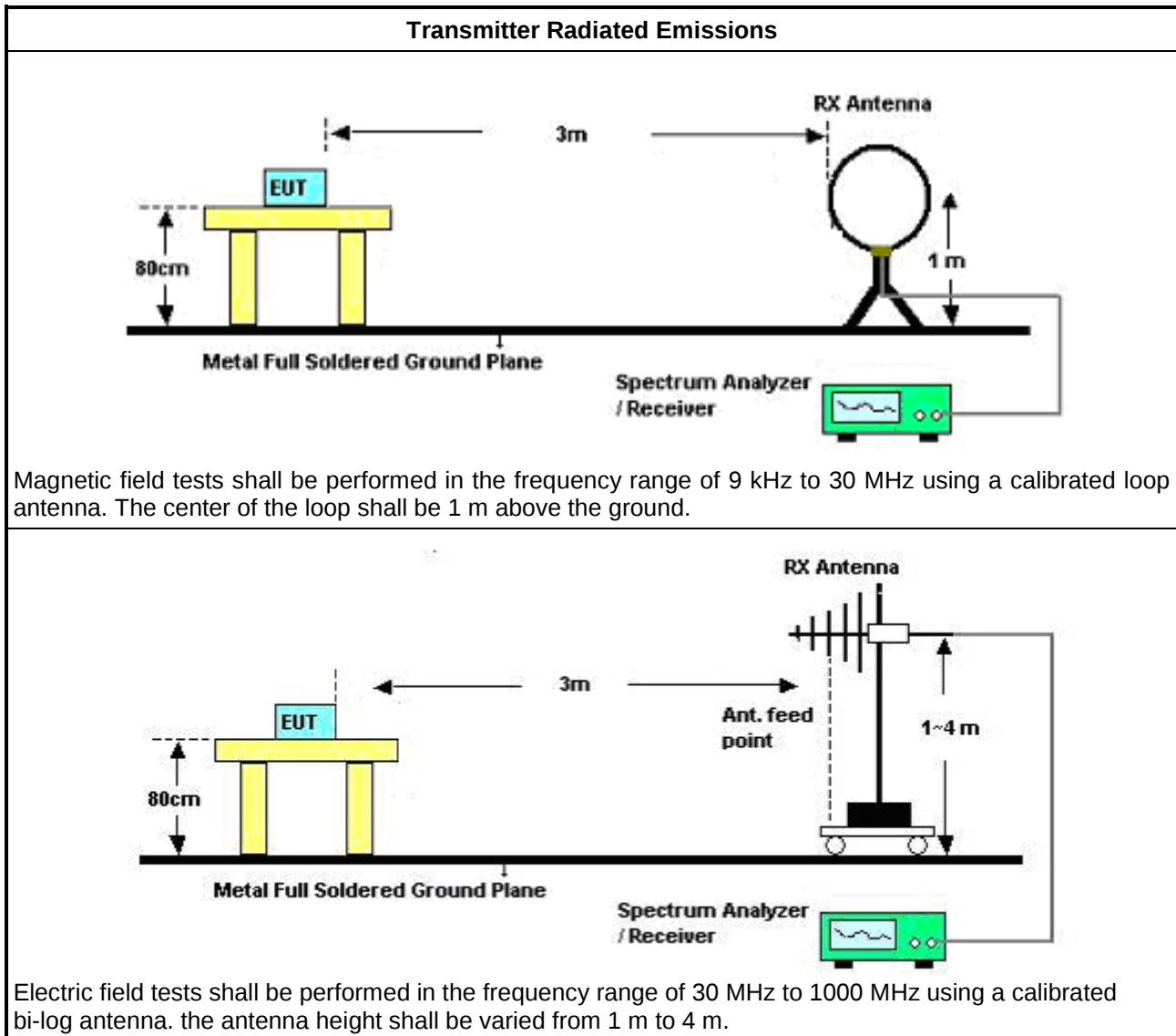
| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1 GHz and test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz. The frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 30MHz measurements employing a CISPR quasi-peak detector. Test distance is 3m.                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/> | At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the requirements; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be following below methods.<br>Note: If fundamental emission level is smaller than noise at 3m , we will change distance to 1m. |
| <input type="checkbox"/>            | The results shall be extrapolated to the specified distance by making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor.                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> | The results shall be by using the square of an inverse linear distance extrapolation factor (40 dB/decade).                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input checked="" type="checkbox"/> | For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> | The any unwanted emissions level shall not exceed the fundamental emission level.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> | All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input checked="" type="checkbox"/> | KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/>            | <ul style="list-style-type: none"> <li>Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.</li> </ul>                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/>            | <ul style="list-style-type: none"> <li>Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>                                                                                                                                                                                                                                                                                                                                                     |

### 3.2.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

### 3.2.5 Test Setup



### 3.2.6 Test Result of Transmitter Radiated Emissions

Refer as Appendix B

### 3.3 Emission Bandwidth

#### 3.3.1 Emission Bandwidth Limit

| Emission Bandwidth Limit |
|--------------------------|
| N/A                      |

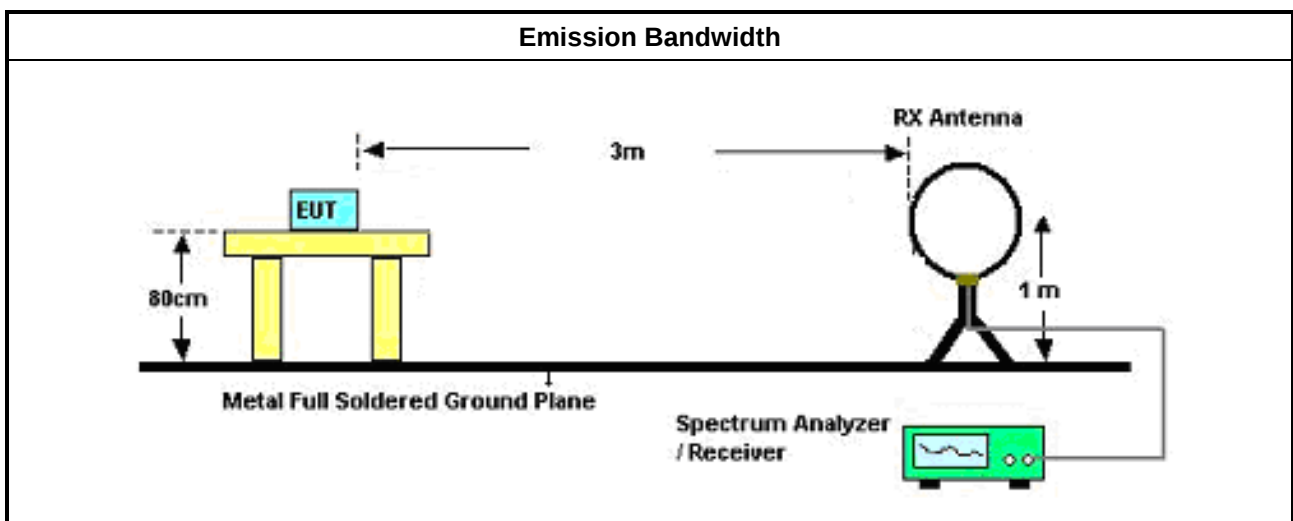
#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.3.3 Test Procedures

| Test Method                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.              |
| <input checked="" type="checkbox"/> For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level. |

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Emission Bandwidth

Refer as Appendix C

## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument         | Manufacturer / Brand | Model No.    | Serial No.    | Characteristics | Calibration Date | Calibration Due Date |
|--------------------|----------------------|--------------|---------------|-----------------|------------------|----------------------|
| EMI Test Receiver  | ROHDE & SCHWARZ      | ESR3         | 102051        | 9kHz ~ 3.6GHz   | 21/May/2025      | 20/May/2026          |
| Two-Line V-Network | ROHDE & SCHWARZ      | ENV 216      | 101578        | 9kHz ~ 30MHz    | 24/Aug/2025      | 23/Aug/2026          |
| RF Cable 5m        | TITAN                | TITAN        | CO04-cable-01 | 9kHz~200MHz     | 25/Feb/2026      | 24/Feb/2027          |
| Pulse Limiter      | SCHWARZBECK          | VTSD 9561F-N | 1056          | 9kHz ~ 30MHz    | 25/Jun/2025      | 24/Jun/2026          |
| Software           | Sporton              | SENSE-EMI    | V5.11.6       | -               | NCR              | NCR                  |

NCR: No Calibration Required

### Instrument for Conducted Test

| Instrument      | Manufacturer / Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date |
|-----------------|----------------------|-----------|------------|-----------------|------------------|----------------------|
| Signal Analyzer | R&S                  | FSV3044   | 101439     | 10Hz~44GHz      | 18/Dec/2025      | 17/Dec/2026          |
| SENSE-NFC       | Sporton              | V5.11.14  | N/A        | N/A             | N/A              | N/A                  |

### Instrument for Radiated Emissions

| Instrument                     | Manufacturer / Brand | Model No.         | Serial No.        | Characteristics | Calibration Date | Calibration Due Date |
|--------------------------------|----------------------|-------------------|-------------------|-----------------|------------------|----------------------|
| 3m Semi Anechoic Chamber       | SIDT FRANKONIA       | SAC-3M            | 03CH03-HY         | 30MHz~1GHz 3m   | 13/Jul/2025      | 12/Jul/2026          |
| EMI Test Receiver              | R&S                  | ESR               | 102052            | 9kHz~3.6GHz     | 14/May/2025      | 13/May/2026          |
| Signal Analyzer                | ROHDE&SCHWARZ        | FSV40             | 101500            | 10Hz~44GHz      | 12/Nov/2025      | 11/Nov/2026          |
| Loop Antenna                   | TESEQ                | HLA 6120          | 31244             | 9kHz~30MHz      | 16/Mar/2026      | 15/Mar/2027          |
| Bilog Antenna & 6dB Attenuator | SCHAFFNER / EMC1     | CBL6112B / N-6-05 | 22237 / AT-N-0603 | 30MHz~1GHz      | 11/Oct/2025      | 10/Oct/2026          |
| RF Cable-R03m                  | Jye Bao              | RG142             | CB021             | 9kHz~30MHz      | 10/Jun/2025      | 09/Jun/2026          |
| RF Cable-R03m                  | Jye Bao              | RG142             | 03CH03-cable-02   | 30MHz~1GHz      | 10/Jun/2025      | 09/Jun/2026          |
| Amplifier                      | Aglient              | 8447D             | 2944A08033        | 100kHz~1.3GHz   | 12/Sep/2025      | 11/Sep/2026          |
| SENSE-NFC                      | Sporton              | V5.11.1           | NA                | NA              | NA               | NA                   |



## Conducted Emissions at Powerline

## Appendix A

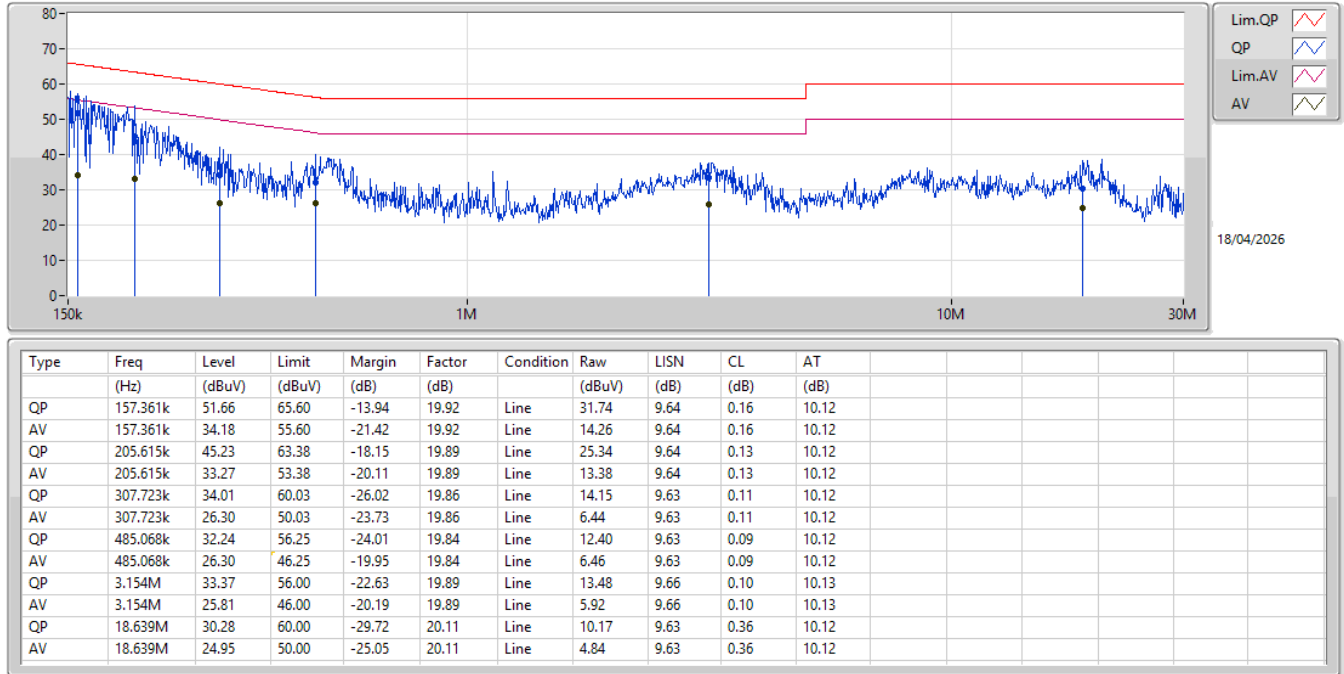
### Summary

| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-----------------|-----------------|----------------|-----------|
| Mode 1 | Pass   | QP   | 151.81k      | 53.44           | 65.90           | -12.46         | Neutral   |

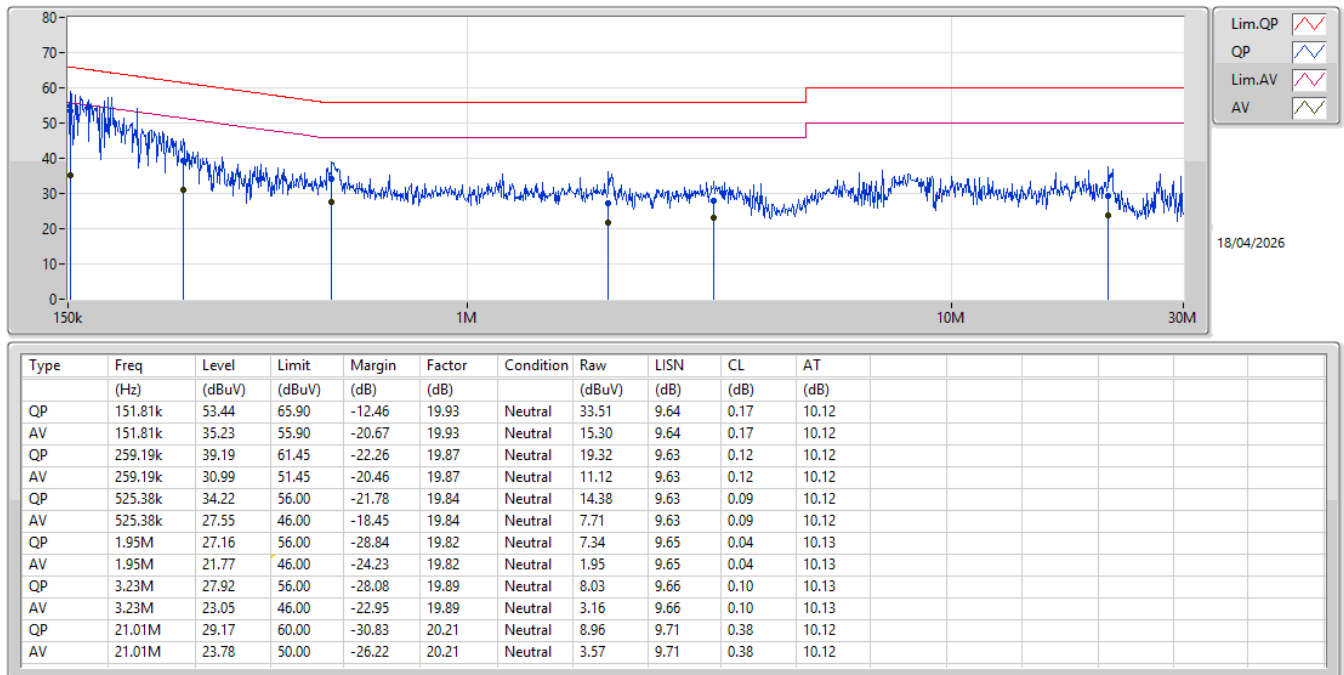
**Result**

| Mode   | Result | Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Condition |
|--------|--------|------|--------------|-----------------|-----------------|----------------|-----------|
| Mode 1 | Pass   | QP   | 157.361k     | 51.66           | 65.60           | -13.94         | Line      |
| Mode 1 | Pass   | AV   | 157.361k     | 34.18           | 55.60           | -21.42         | Line      |
| Mode 1 | Pass   | QP   | 205.615k     | 45.23           | 63.38           | -18.15         | Line      |
| Mode 1 | Pass   | AV   | 205.615k     | 33.27           | 53.38           | -20.11         | Line      |
| Mode 1 | Pass   | QP   | 307.723k     | 34.01           | 60.03           | -26.02         | Line      |
| Mode 1 | Pass   | AV   | 307.723k     | 26.30           | 50.03           | -23.73         | Line      |
| Mode 1 | Pass   | QP   | 485.068k     | 32.24           | 56.25           | -24.01         | Line      |
| Mode 1 | Pass   | AV   | 485.068k     | 26.30           | 46.25           | -19.95         | Line      |
| Mode 1 | Pass   | QP   | 3.154M       | 33.37           | 56.00           | -22.63         | Line      |
| Mode 1 | Pass   | AV   | 3.154M       | 25.81           | 46.00           | -20.19         | Line      |
| Mode 1 | Pass   | QP   | 18.639M      | 30.28           | 60.00           | -29.72         | Line      |
| Mode 1 | Pass   | AV   | 18.639M      | 24.95           | 50.00           | -25.05         | Line      |
| Mode 1 | Pass   | QP   | 151.81k      | 53.44           | 65.90           | -12.46         | Neutral   |
| Mode 1 | Pass   | AV   | 151.81k      | 35.23           | 55.90           | -20.67         | Neutral   |
| Mode 1 | Pass   | QP   | 259.19k      | 39.19           | 61.45           | -22.26         | Neutral   |
| Mode 1 | Pass   | AV   | 259.19k      | 30.99           | 51.45           | -20.46         | Neutral   |
| Mode 1 | Pass   | QP   | 525.38k      | 34.22           | 56.00           | -21.78         | Neutral   |
| Mode 1 | Pass   | AV   | 525.38k      | 27.55           | 46.00           | -18.45         | Neutral   |
| Mode 1 | Pass   | QP   | 1.95M        | 27.16           | 56.00           | -28.84         | Neutral   |
| Mode 1 | Pass   | AV   | 1.95M        | 21.77           | 46.00           | -24.23         | Neutral   |
| Mode 1 | Pass   | QP   | 3.23M        | 27.92           | 56.00           | -28.08         | Neutral   |
| Mode 1 | Pass   | AV   | 3.23M        | 23.05           | 46.00           | -22.95         | Neutral   |
| Mode 1 | Pass   | QP   | 21.01M       | 29.17           | 60.00           | -30.83         | Neutral   |
| Mode 1 | Pass   | AV   | 21.01M       | 23.78           | 50.00           | -26.22         | Neutral   |

### Conducted Emissions at Powerline\_Mode 1



### Conducted Emissions at Powerline\_Mode 1





**Summary**

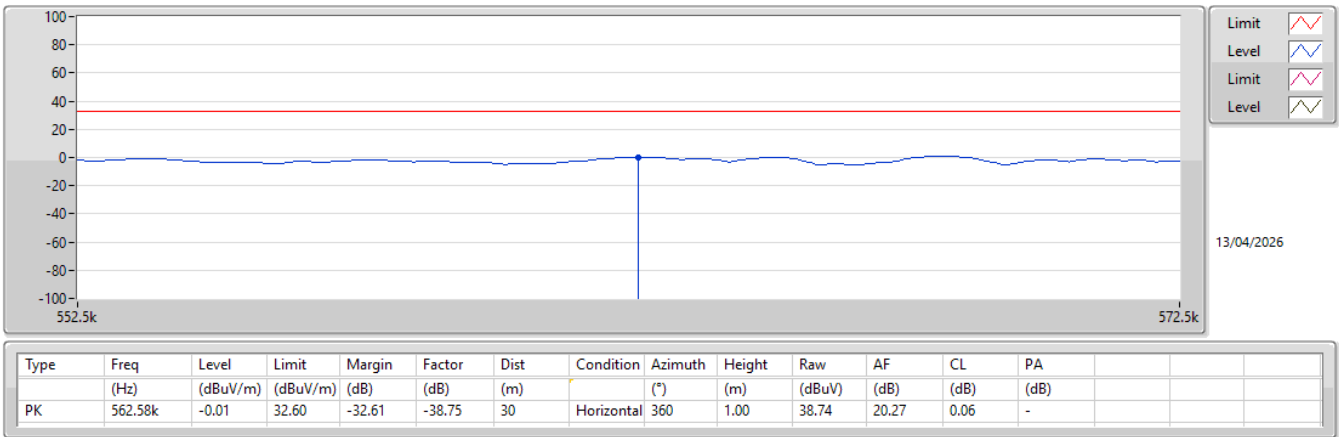
| Mode | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Azimuth<br>(°) | Height<br>(m) |
|------|--------|------|--------------|-------------------|-------------------|----------------|-------------|----------------|---------------|
| SRD  | -      | -    | -            | -                 | -                 | -              | -           | -              | -             |
| SRD  | Pass   | PK   | 10.169M      | -2.64             | 29.54             | -32.18         | 30          | 360            | 1.00          |

**Result**

| Mode          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Azimuth<br>(°) | Height<br>(m) |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|----------------|---------------|
| SRD           | -      | -    | -            | -                 | -                 | -              | -           | -              | -             |
| 0.5625MHz_USB | Pass   | PK   | 562.58k      | -0.01             | 32.60             | -32.61         | 30          | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 58.35k       | -60.79            | 52.28             | -113.07        | 300         | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 91.626k      | -56.65            | 28.36             | -85.01         | 300         | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 104.034k     | -55.37            | 27.26             | -82.63         | 300         | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 251.32k      | -48.54            | 39.60             | -88.14         | 300         | 0              | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 332.24k      | -48.44            | 37.18             | -85.62         | 300         | 0              | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 422.68k      | -46.49            | 35.08             | -81.57         | 300         | 0              | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 10.169M      | -2.64             | 29.54             | -32.18         | 30          | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 15.658M      | -2.82             | 29.54             | -32.36         | 30          | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 24.511M      | -3.64             | 29.54             | -33.18         | 30          | 360            | 1.00          |

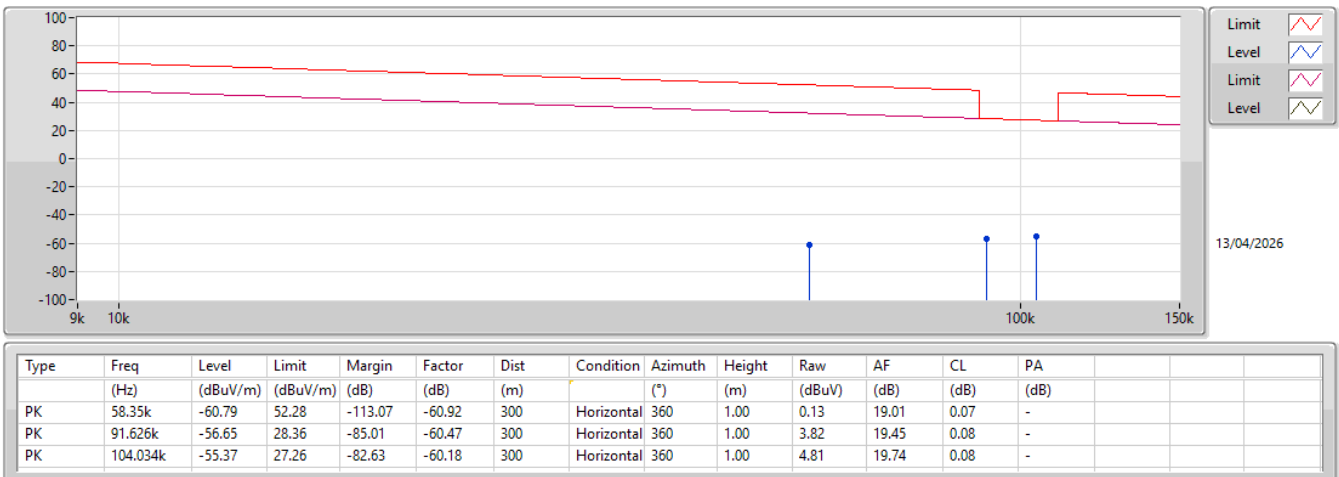
SRD

0.5625MHz\_USB



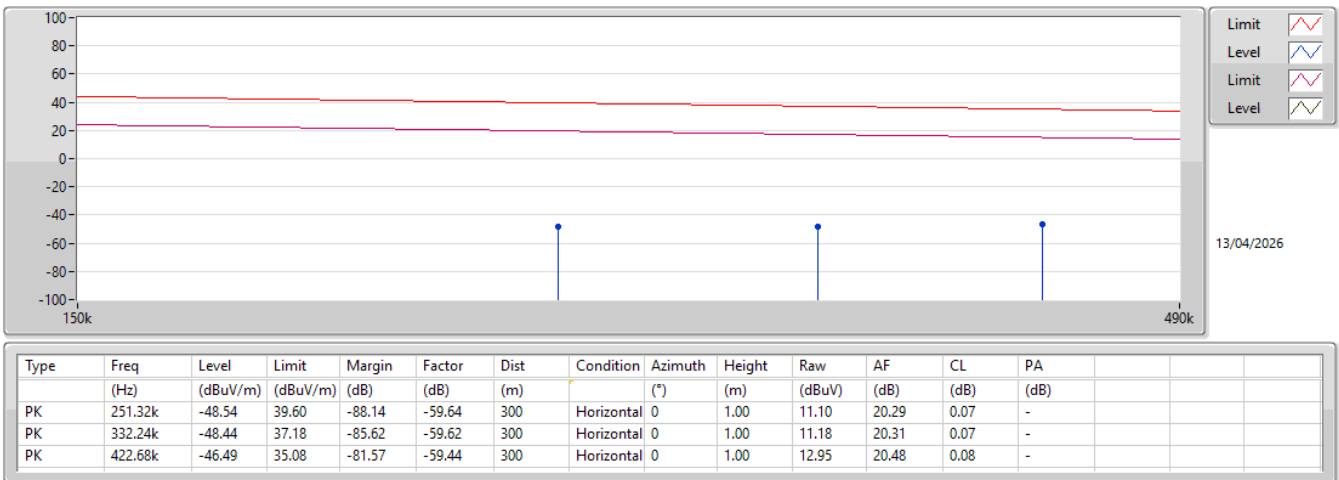
SRD

0.5625MHz\_USB



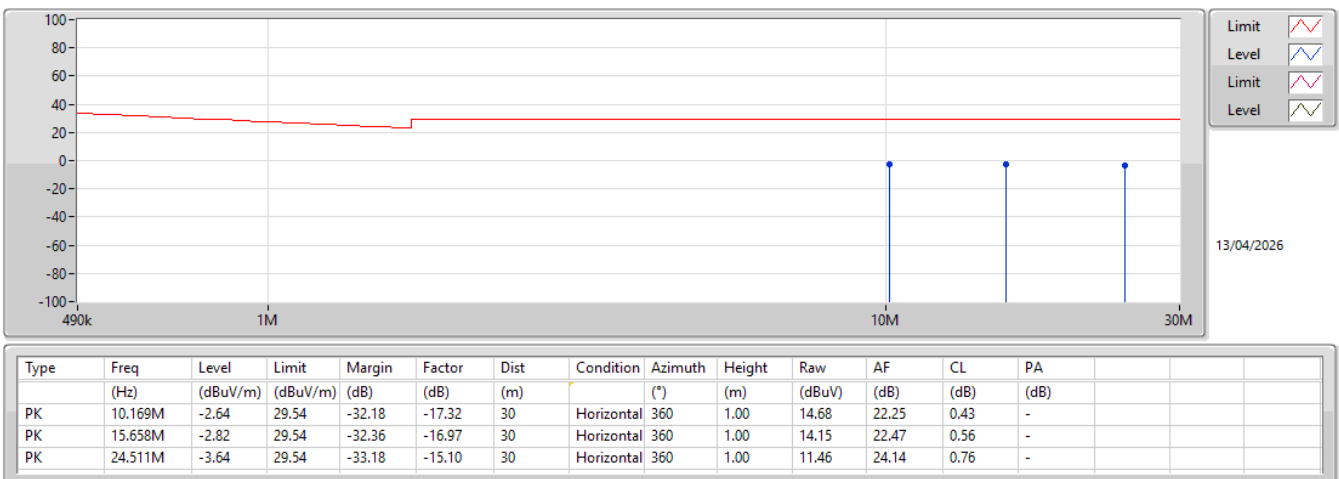
SRD

0.5625MHz\_USB



SRD

0.5625MHz\_USB





**Summary**

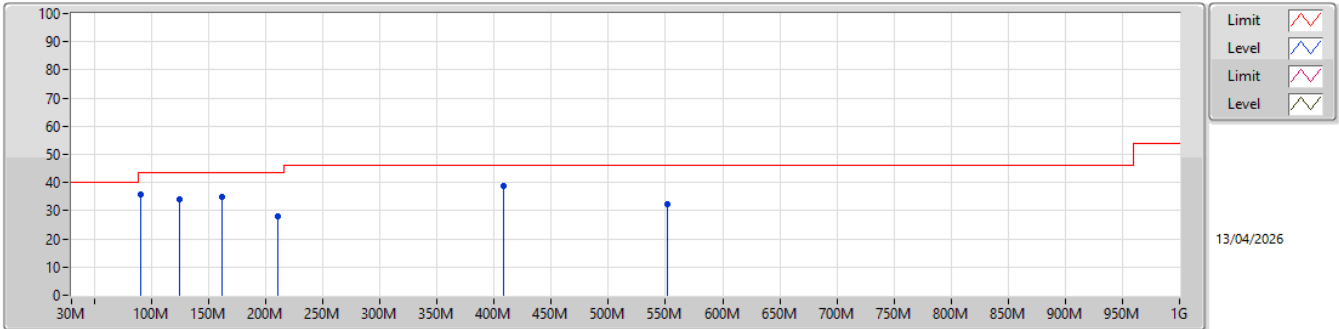
| Mode | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Azimuth<br>(°) | Height<br>(m) |
|------|--------|------|--------------|-------------------|-------------------|----------------|-------------|----------------|---------------|
| SRD  | -      | -    | -            | -                 | -                 | -              | -           | -              | -             |
| SRD  | Pass   | PK   | 408.3M       | 38.96             | 46.00             | -7.04          | 3           | 360            | 1.00          |

**Result**

| Mode          | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Azimuth<br>(°) | Height<br>(m) |
|---------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|----------------|---------------|
| SRD           | -      | -    | -            | -                 | -                 | -              | -           | -              | -             |
| 0.5625MHz_USB | Pass   | PK   | 125.06M      | 34.06             | 43.50             | -9.44          | 3           | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 161.92M      | 34.72             | 43.50             | -8.78          | 3           | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 210.42M      | 27.90             | 43.50             | -15.60         | 3           | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 408.3M       | 38.96             | 46.00             | -7.04          | 3           | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 551.86M      | 32.17             | 46.00             | -13.83         | 3           | 360            | 1.00          |
| 0.5625MHz_USB | Pass   | QP   | 90.14M       | 35.75             | 43.50             | -7.75          | 3           | 265            | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 125.06M      | 33.79             | 43.50             | -9.71          | 3           | 0              | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 161.92M      | 30.88             | 43.50             | -12.62         | 3           | 0              | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 210.42M      | 30.30             | 43.50             | -13.20         | 3           | 0              | 1.00          |
| 0.5625MHz_USB | Pass   | PK   | 542.16M      | 29.50             | 46.00             | -16.50         | 3           | 0              | 1.00          |
| 0.5625MHz_USB | Pass   | QP   | 88.2M        | 25.42             | 43.50             | -18.08         | 3           | 101            | 2.21          |
| 0.5625MHz_USB | Pass   | QP   | 408.3M       | 21.71             | 46.00             | -24.29         | 3           | 57             | 1.48          |

## SRD

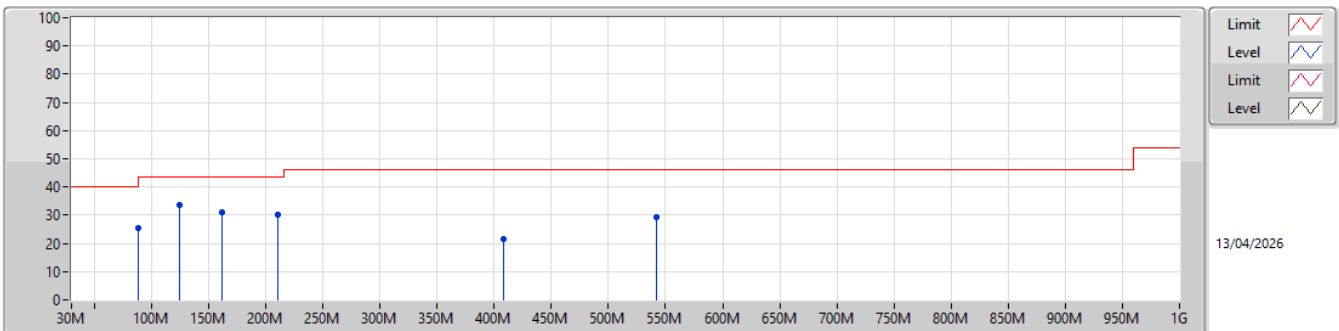
### 0.5625MHz\_USB



| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Raw (dBuV) | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|-------------|----------|-----------|-------------|------------|------------|---------|---------|---------|
| PK   | 125.06M   | 34.06          | 43.50          | -9.44       | -6.29       | 3        | Vertical  | 360         | 1.00       | 40.35      | 18.26   | 1.79    | 26.34   |
| PK   | 161.92M   | 34.72          | 43.50          | -8.78       | -8.59       | 3        | Vertical  | 360         | 1.00       | 43.31      | 15.86   | 2.11    | 26.56   |
| PK   | 210.42M   | 27.90          | 43.50          | -15.60      | -9.16       | 3        | Vertical  | 360         | 1.00       | 37.06      | 15.27   | 2.40    | 26.83   |
| PK   | 408.3M    | 38.96          | 46.00          | -7.04       | -3.21       | 3        | Vertical  | 360         | 1.00       | 42.17      | 22.20   | 3.39    | 28.80   |
| PK   | 551.86M   | 32.17          | 46.00          | -13.83      | 0.50        | 3        | Vertical  | 360         | 1.00       | 31.67      | 25.28   | 4.04    | 28.82   |
| QP   | 90.14M    | 35.75          | 43.50          | -7.75       | -9.30       | 3        | Vertical  | 265         | 1.00       | 45.05      | 15.44   | 1.57    | 26.31   |

## SRD

### 0.5625MHz\_USB



| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Raw (dBuV) | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|-------------|----------|------------|-------------|------------|------------|---------|---------|---------|
| PK   | 125.06M   | 33.79          | 43.50          | -9.71       | -6.29       | 3        | Horizontal | 0           | 1.00       | 40.08      | 18.26   | 1.79    | 26.34   |
| PK   | 161.92M   | 30.88          | 43.50          | -12.62      | -8.59       | 3        | Horizontal | 0           | 1.00       | 39.47      | 15.86   | 2.11    | 26.56   |
| PK   | 210.42M   | 30.30          | 43.50          | -13.20      | -9.16       | 3        | Horizontal | 0           | 1.00       | 39.46      | 15.27   | 2.40    | 26.83   |
| PK   | 542.16M   | 29.50          | 46.00          | -16.50      | 0.30        | 3        | Horizontal | 0           | 1.00       | 29.20      | 25.19   | 3.99    | 28.88   |
| QP   | 88.2M     | 25.42          | 43.50          | -18.08      | -9.72       | 3        | Horizontal | 101         | 2.21       | 35.14      | 15.04   | 1.55    | 26.31   |
| QP   | 408.3M    | 21.71          | 46.00          | -24.29      | -3.21       | 3        | Horizontal | 57          | 1.48       | 24.92      | 22.20   | 3.39    | 28.80   |

**Summary**

| Mode      | 20dB   | Fl-20dB    | Fh-20dB    | OBW    | Limit   |
|-----------|--------|------------|------------|--------|---------|
|           | (Hz)   | (Hz)       | (Hz)       | (Hz)   | (Range) |
| 0.5625MHz | -      | -          | -          | -      | -       |
| SRD       | 3.812k | 560.40000k | 564.21250k | 3.411k | Inf     |

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

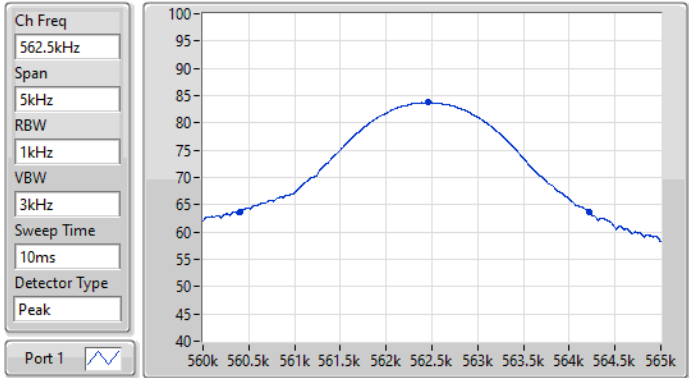
**Result**

| Mode               | Result | 20dB   | FI-20dB    | Fh-20dB    | OBW    | FI-OBW     | Fh-OBW     | Limit   |
|--------------------|--------|--------|------------|------------|--------|------------|------------|---------|
|                    |        | (Hz)   | (Hz)       | (Hz)       | (Hz)   | (Hz)       | (Hz)       | (Range) |
| SRD                | -      | -      | -          | -          | -      | -          | -          | -       |
| 0.5625MHz_TnomVnom | Pass   | 3.812k | 560.40000k | 564.21250k | 3.411k | 560.63843k | 564.04923k | Inf     |

Port X-N dB = Port X 20dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

## SRD

### 0.5625MHz\_TnomVnom



| 20dB(Hz) | FI-20dB(Hz) | Fh-20dB(Hz) | OBW(Hz) | FI-OBW(Hz) | Fh-OBW(Hz) | Limit(Range) |
|----------|-------------|-------------|---------|------------|------------|--------------|
| 3.812k   | 560.40000k  | 564.21250k  | 3.411k  | 560.63843k | 564.04923k | Inf          |

## EBW

21/04/2026

