



RF TEST REPORT

Applicant Dreamtek Intelligent Technology Co., Ltd.

FCC ID 2BOUAD1

Product D1

Brand Dreamtek

Model D1

Report No. EFTA25040106-IE-02-R6V1

Issue Date August 19, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2024)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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| Version | Revision Description | Issue Date |
|---|-------------------------------|-----------------|
| Rev.0 | Initial issue of report. | July 30, 2025 |
| Rev.1 | Updated data and description. | August 19, 2025 |
| Note: This revised report (Report No.: EFTA25040106-IE-02-R6V1) supersedes and replaces the previously issued report (Report No.: EFTA25040106-IE-02-R6). Please discard or destroy the previously issued report and dispose of it accordingly. | | |

Summary of Measurement Results

| Number | Test Case | Clause in FCC rules | Verdict |
|--------|-------------------------------|-----------------------------------|---------|
| 1 | 20 dB Bandwidth | 2.1049 | PASS |
| 2 | Frequency Stability Tolerance | 15.225(e) | PASS |
| 3 | Radiated Emissions | 15.225 (a) (b) (c) (d) and 15.209 | PASS |
| 4 | Conducted Emissions | 15.207 | PASS |

Date of Testing: April 16, 2025 ~ May 28, 2025 and August 19, 2025

Date of Sample Received: April 11, 2025

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the client to claim product certification, approval, or endorsement by any government agencies.

1.2. Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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E-mail: Kain.Xu@cpt.eurofinscn.com

2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

| | |
|-----------------------------|---|
| Applicant | Dreamtek Intelligent Technology Co., Ltd. |
| Applicant address | Room 508, Building A2, Area one of Zhongan Chuanggu Science Park, No. 900 of Wangjiang West Road, High-tech Zone, Hefei, Anhui, China |
| Manufacturer | Dreamtek Intelligent Technology Co., Ltd. |
| Manufacturer address | Room 508, Building A2, Area one of Zhongan Chuanggu Science Park, No. 900 of Wangjiang West Road, High-tech Zone, Hefei, Anhui, China |

2.2. General Information

| EUT Description | | |
|------------------------------|---|------------------|
| Model | D1 | |
| SN | XBBA2FC1700085 | |
| Hardware Version | H554-07-DC-0N4-32C-A1 H554-07-DC-0N5-32C-A1 | |
| Software Version | 1A.1.3(202503171200 INTL) | |
| Power Supply | Battery / AC adapter | |
| Antenna Type | Metal Coil Antenna | |
| Antenna Connector | A permanently attached antenna (meet with the standard FCC Part 15.203 requirement) | |
| Test Mode | NFC-A | NFC-B |
| Modulation Type | ASK | ASK, BPSK |
| Operating Frequency Range(s) | 13.56MHz | |
| Rated Power Supply Voltage | 7.6 VDC | |
| Operating Voltage | Minimum: 7.0 VDC | Maximum: 8.4 VDC |
| Operating Temperature | Lowest: -10 °C | Highest: +50°C |
| Testing Temperature | Lowest: -20 °C | Highest: +50 °C |
| EUT Accessory | | |
| Adapter 1 | Manufacturer: SHENZHEN TIANYIN ELECTRONICS CO.,LTD. Model: TPA-418G050200UU01 | |
| Adapter 2 | Manufacturer: Chongqing Lianmao Electronics Co.,Ltd. Model: LM-603U-050200U02UL | |
| Adapter 3 | Manufacturer: SHENZHEN TIANYIN ELECTRONICS CO.,LTD. Model: TPA-418G050200VU01 | |

| | | |
|--|---|--|
| Adapter 4 | Manufacturer: Chongqing Lianmao Electronics Co.,Ltd. Model: LM-603E-050200U02CE | |
| Battery 1 | Manufacturer: Dongguan HongDe Battery Co.,Ltd. Model: BPK550-026-72-A | |
| Battery 2 | Manufacturer: Guangdong Fenghua New Energy Co.,Ltd. Model: BPK550-026-74-B | |
| USB cable 1 | Manufacturer: Shanghai Wangxing Electronic Technology Co.,Ltd. Model: 809.001.0010 | |
| USB cable 2 | Manufacturer: Chongqing Lianmao Electronics Co.,Ltd. Model: 809.001.0012 | |
| Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. | | |

| | | | | | | | | |
|-----------------------|---|--|---|---|--|--|---|---|
| D1 | Configurations 1 (D1+ Token Version with the 1st supply of main materials) | Configurations 2 (D1+ Token Version with the 2nd supply of main materials) | Configurations 3 (D1+ Standard Version with the 1st supply of main materials) | Configurations 4 (D1+ Standard Version with the 2nd supply of main materials) | Configurations 5 (D1A Token Version with the 1st supply of main materials) | Configurations 6 (D1A Token Version with the 2nd supply of main materials) | Configurations 7 (D1A Standard Version with the 1st supply of main materials) | Configurations 8 (D1A Standard Version with the 2nd supply of main materials) |
| Screen | 6.517-inch | 6.517-inch | 6.517-inch | 6.517-inch | 5-inch | 5-inch | 5-inch | 5-inch |
| Front Camera | 2M FF | 2M FF | 2M FF | 2M FF | 0.3M FF | 0.3M FF | 0.3M FF | 0.3M FF |
| Rear Camera | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier |
| Printer | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier |
| MSR | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier |
| Button Cell CR2032 | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier | The 1st supplier | The 2nd supplier |
| Hardware Version | H554-07-DC-0N5-32C-A1 | | | | H554-07-DC-0N4-32C-A1 | | | |

Note: This report only tests configurations 1.

3. Applied Standards

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

Test standards:

FCC CFR47 Part 15C (2024)

ANSI C63.10-2013

Reference standard:

FCC CFR47 Part 2 (2024)

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

5. Test Case

5.1. 20dB Bandwidth

Ambient Condition

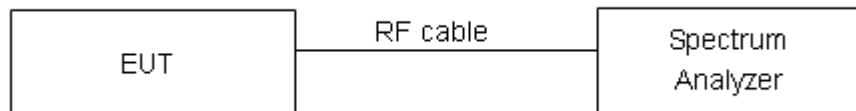
| Temperature | Relative humidity | Pressure |
|-------------|-------------------|------------------|
| 15°C ~ 35°C | 20% ~ 80% | 86 kPa ~ 106 kPa |

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 10 kHz; VBW is set to 3 times the RBW on spectrum analyzer.

Note: 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.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results

Refer to the section 6.1 of this report for test data.

5.2. Frequency Stability

Ambient Condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|------------------|
| 15°C ~ 35°C | 20% ~ 80% | 86 kPa ~ 106 kPa |

Method of Measurement

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -20°C to +50°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a "call mode". These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -20°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

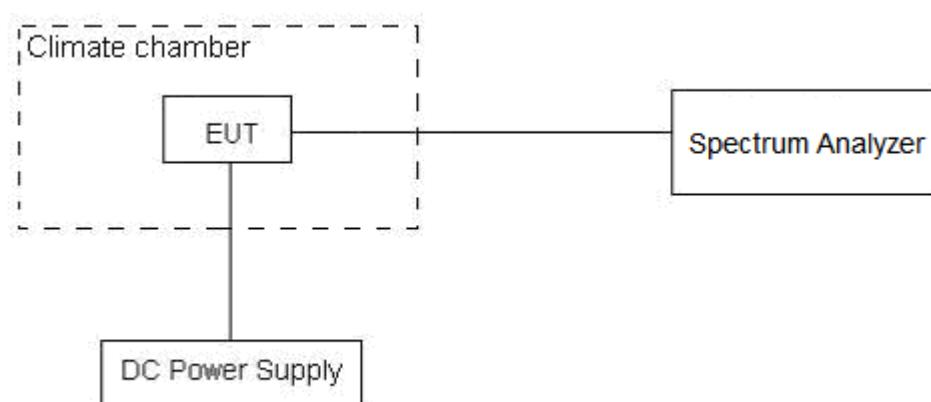
2. Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 7 V and 8.4 V, with a nominal voltage of 7.6V.

Test Setup



Limits

Rule Part 15.225 (e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01\text{ppm}$.

Test Results

Refer to the section 6.2 of this report for test data.

5.3. Radiates Emission

Ambient Condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|------------------|
| 15°C ~ 35°C | 20% ~ 80% | 86 kPa ~ 106 kPa |

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Out-of-band

Below30MHz

RBW=9KHz, VBW=30KHz, detector=peak;

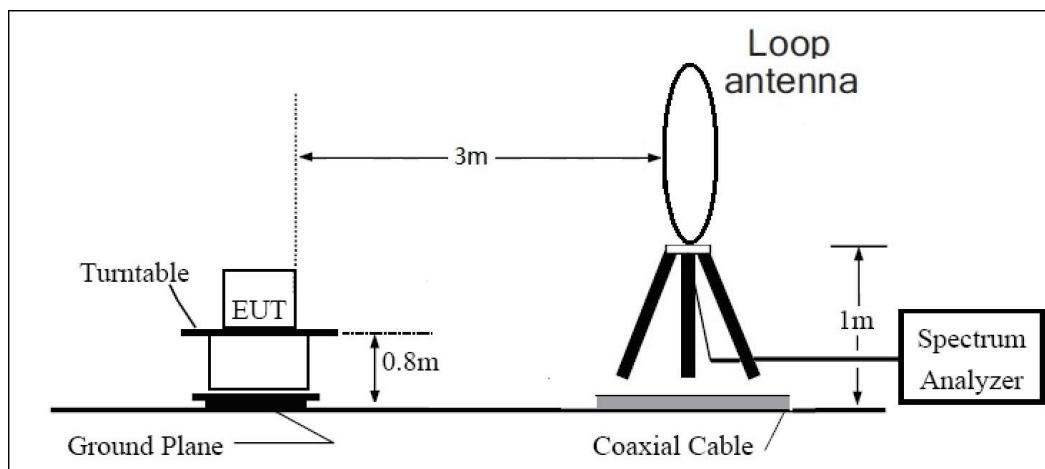
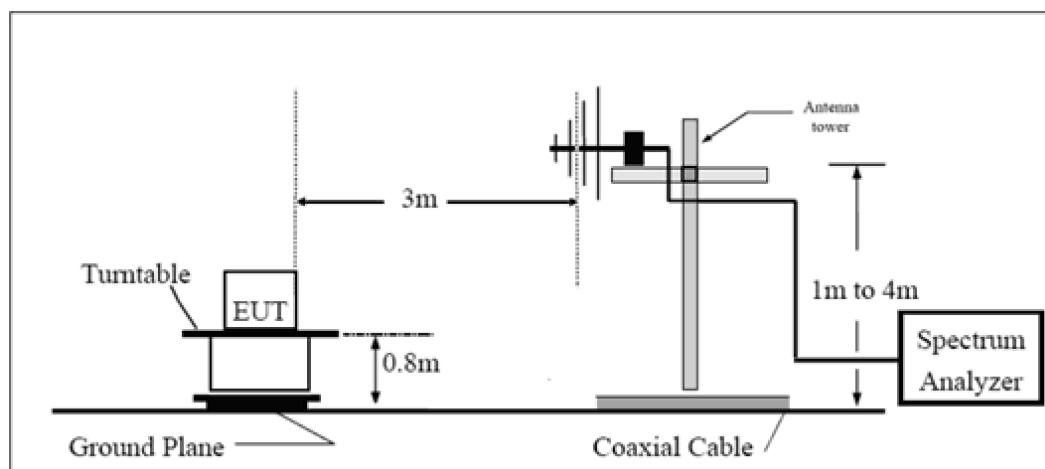
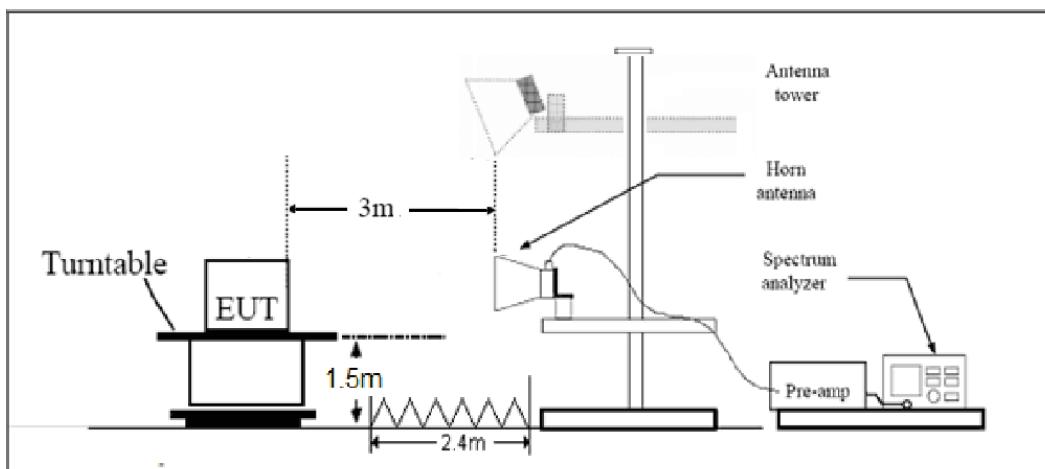
Above 30MHz,

RBW=100KHz, VBW=300KHz, Detector=peak

In-band

RBW=9KHz, VBW=30KHz, detector=peak;

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the other antennas are vertical and horizontal.

Test Setup
9KHz~ 30MHz

30MHz~ 1GHz

Above 1GHz


Note: Area side:2.4mX3.6m

Limits

Clause 15.225(a) the field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

Clause 15.225(b) within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

Clause 15.225(c) within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Clause 15.225(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency of emission (MHz) | Field strength(μ V/m) | Field strength(dB μ V/m) |
|-----------------------------|----------------------------|---|
| 0.009–0.490 | 2400/F(kHz) | 128.519dB μ V/m -93.8dB μ V/m |
| 0.490–1.705 | 24000/F(kHz) | 73.8dB dB μ V/m -62.969dB μ V/m |
| 1.705–30.0 | 30 | 69.5 dB μ V/m |
| 30-88 | 100 | 40 dB μ V/m |
| 88-216 | 150 | 43.5 dB μ V/m |
| 216-960 | 200 | 46 dB μ V/m |
| Above960 | 500 | 54 dB μ V/m |

When using other measurement distance, according to the standard C63.10, If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the data was extrapolated to the specified measurement distance of 30m using extrapolation factor as specified in §6.4.4.2. Extrapolation Factor = $40\log(d \text{ near filed}/ d \text{ measure }) + 20\log(d \text{ limit} / d \text{ near filed})$

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

§15.209 (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

| Frequency | Uncertainty |
|--------------|-------------|
| 9KHz-30MHz | 3.55 dB |
| 30MHz-200MHz | 4.02 dB |
| 200MHz-1GHz | 3.28 dB |
| Above 1GHz | 3.70 dB |

Test Results

Refer to the section 6.3 of this report for test data.

5.4. Conducted Emission

Ambient Condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|------------------|
| 15°C ~ 35°C | 20% ~ 80% | 86 kPa ~ 106 kPa |

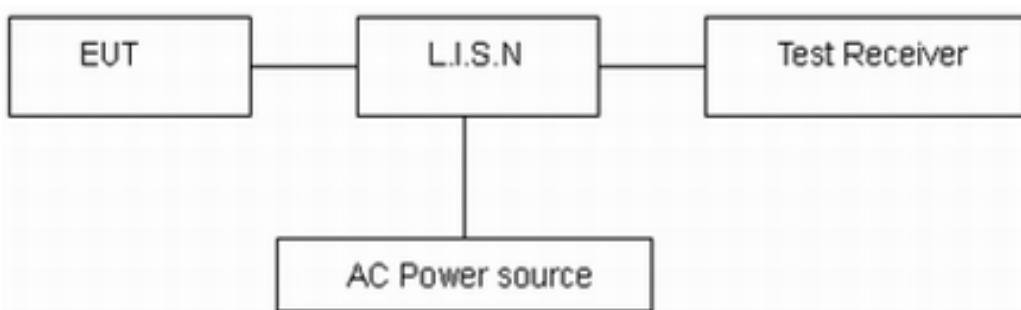
Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.

The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency (MHz) | Conducted Limits(dB μ V) | |
|--------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 to 56 * | 56 to 46* |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

*: Decreases with the logarithm of the frequency.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

Test Results

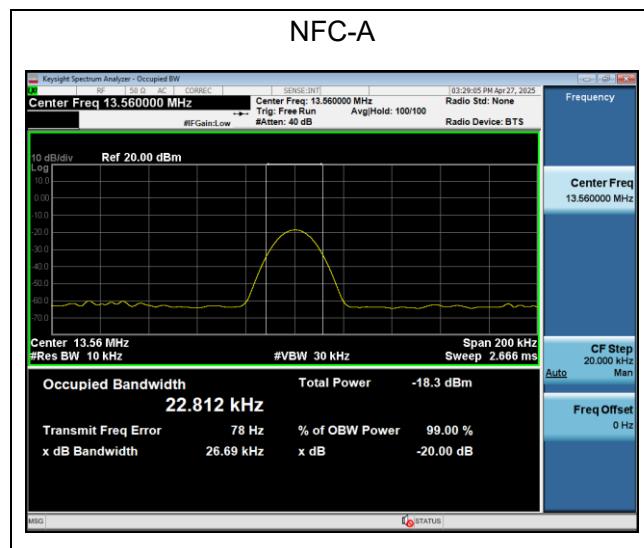
Refer to the section 6.4 of this report for test data.

6. Test Results

6.1. 20dB Bandwidth

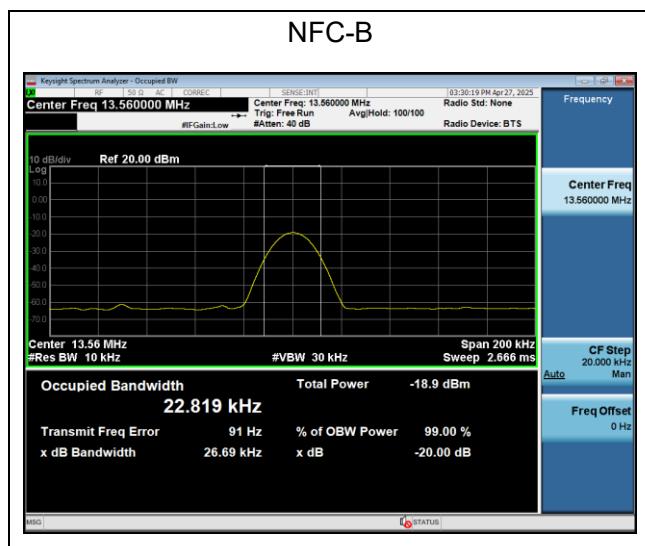
NFC-A

| Carrier frequency (MHz) | 99% Bandwidth (kHz) | 20dB Bandwidth (kHz) | Conclusion |
|-------------------------|---------------------|----------------------|------------|
| 13.56MHz | 22.812 | 26.690 | PASS |



NFC-B

| Carrier frequency (MHz) | 99% Bandwidth (kHz) | 20dB Bandwidth (kHz) | Conclusion |
|-------------------------|---------------------|----------------------|------------|
| 13.56MHz | 22.819 | 26.690 | PASS |



6.2. Frequency Stability

NFC-A

| Test status | Frequency | | | | Tolerance (MHz) | | | |
|-------------|-----------|-----------|-----------|-----------|-----------------|----------|----------|----------|
| | 13.56MHz | | | | | | | |
| | 1min | 2min | 5min | 10min | 1min | 2min | 5min | 10min |
| -20°C/7.6V | 13.559343 | 13.559348 | 13.559346 | 13.559343 | 0.000657 | 0.000652 | 0.000654 | 0.000657 |
| -10°C/7.6V | 13.559342 | 13.559338 | 13.559338 | 13.559336 | 0.000658 | 0.000662 | 0.000662 | 0.000664 |
| 0°C/7.6V | 13.559340 | 13.559329 | 13.559336 | 13.559336 | 0.000660 | 0.000671 | 0.000664 | 0.000664 |
| 10°C/7.6V | 13.559331 | 13.559321 | 13.559333 | 13.559329 | 0.000669 | 0.000679 | 0.000667 | 0.000671 |
| 20°C/7.6V | 13.559322 | 13.559320 | 13.559324 | 13.559319 | 0.000678 | 0.000680 | 0.000676 | 0.000681 |
| 30°C/7.6V | 13.559314 | 13.559311 | 13.559321 | 13.559314 | 0.000686 | 0.000689 | 0.000679 | 0.000686 |
| 40°C/7.6V | 13.559305 | 13.559304 | 13.559315 | 13.559307 | 0.000695 | 0.000696 | 0.000685 | 0.000693 |
| 50°C/7.6V | 13.559301 | 13.559304 | 13.559307 | 13.559297 | 0.000699 | 0.000696 | 0.000693 | 0.000703 |
| 20°C/7.0V | 13.559292 | 13.559297 | 13.559304 | 13.559290 | 0.000708 | 0.000703 | 0.000696 | 0.000710 |
| 20°C/8.4V | 13.559288 | 13.559293 | 13.559296 | 13.559289 | 0.000712 | 0.000707 | 0.000704 | 0.000711 |

| Test status | Tolerance (%) | | | | Limit (%) | Conclusion |
|-------------|---------------|----------|----------|----------|-----------|------------|
| | 1min | 2min | 5min | 10min | | |
| -20°C/7.6V | 0.004845 | 0.004808 | 0.004823 | 0.004845 | 0.01 | PASS |
| -10°C/7.6V | 0.004853 | 0.004882 | 0.004882 | 0.004897 | 0.01 | PASS |
| 0°C/7.6V | 0.004867 | 0.004948 | 0.004897 | 0.004897 | 0.01 | PASS |
| 10°C/7.6V | 0.004934 | 0.005007 | 0.004919 | 0.004948 | 0.01 | PASS |
| 20°C/7.6V | 0.005000 | 0.005015 | 0.004985 | 0.005022 | 0.01 | PASS |
| 30°C/7.6V | 0.005059 | 0.005081 | 0.005007 | 0.005059 | 0.01 | PASS |
| 40°C/7.6V | 0.005125 | 0.005133 | 0.005052 | 0.005111 | 0.01 | PASS |
| 50°C/7.6V | 0.005155 | 0.005133 | 0.005111 | 0.005184 | 0.01 | PASS |
| 20°C/7.0V | 0.005221 | 0.005184 | 0.005133 | 0.005236 | 0.01 | PASS |
| 20°C/8.4V | 0.005251 | 0.005214 | 0.005192 | 0.005243 | 0.01 | PASS |

NFC-B

| Test status | Frequency | | | | Tolerance (MHz) | | | |
|-------------|-----------|-----------|-----------|-----------|-----------------|----------|----------|----------|
| | 13.56MHz | | | | | | | |
| | 1min | 2min | 5min | 10min | 1min | 2min | 5min | 10min |
| -20°C/7.6V | 13.559333 | 13.559337 | 13.559335 | 13.559336 | 0.000667 | 0.000663 | 0.000665 | 0.000664 |
| -10°C/7.6V | 13.559329 | 13.559332 | 13.559332 | 13.559335 | 0.000671 | 0.000668 | 0.000668 | 0.000665 |
| 0°C/7.6V | 13.559324 | 13.559329 | 13.559324 | 13.559330 | 0.000676 | 0.000671 | 0.000676 | 0.000670 |
| 10°C/7.6V | 13.559324 | 13.559321 | 13.559315 | 13.559326 | 0.000676 | 0.000679 | 0.000685 | 0.000674 |
| 20°C/7.6V | 13.559316 | 13.559321 | 13.559306 | 13.559319 | 0.000684 | 0.000679 | 0.000694 | 0.000681 |
| 30°C/7.6V | 13.559313 | 13.559313 | 13.559305 | 13.559311 | 0.000687 | 0.000687 | 0.000695 | 0.000689 |
| 40°C/7.6V | 13.559303 | 13.559307 | 13.559302 | 13.559310 | 0.000697 | 0.000693 | 0.000698 | 0.000690 |
| 50°C/7.6V | 13.559295 | 13.559303 | 13.559299 | 13.559306 | 0.000705 | 0.000697 | 0.000701 | 0.000694 |
| 20°C/7.0V | 13.559291 | 13.559295 | 13.559298 | 13.559297 | 0.000709 | 0.000705 | 0.000702 | 0.000703 |
| 20°C/8.4V | 13.559284 | 13.559294 | 13.559294 | 13.559290 | 0.000716 | 0.000706 | 0.000706 | 0.000710 |

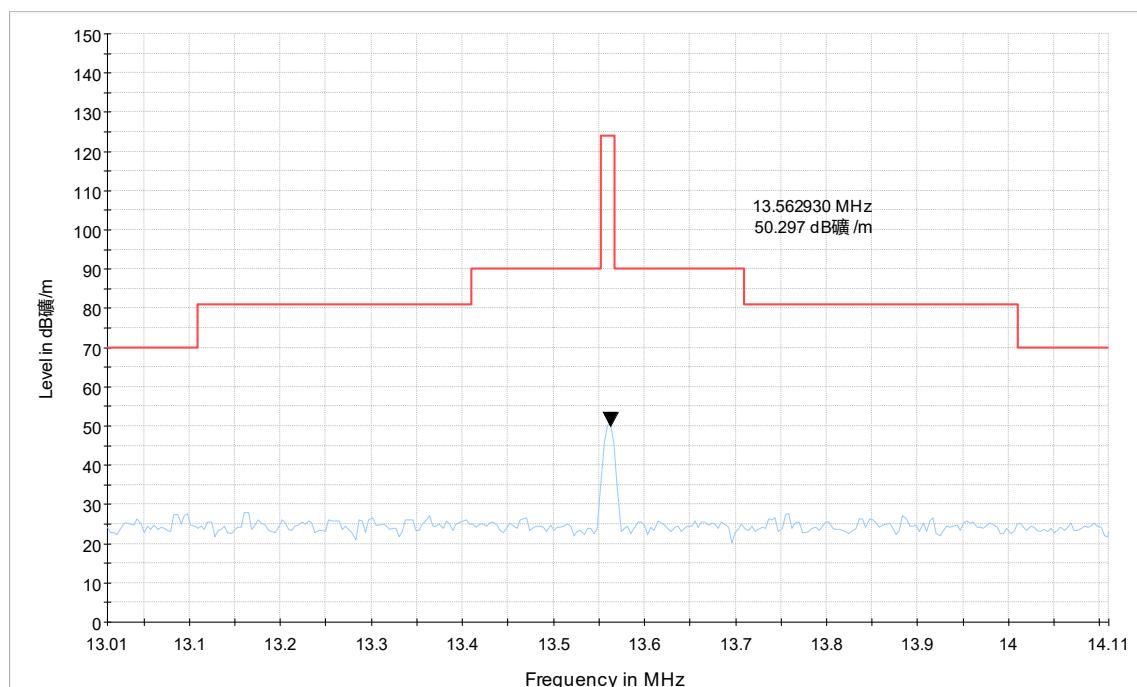
| Test status | Tolerance (%) | | | | Limit (%) | Conclusion |
|-------------|---------------|----------|----------|----------|-----------|------------|
| | 1min | 2min | 5min | 10min | | |
| -20°C/7.6V | 0.004919 | 0.004889 | 0.004904 | 0.004897 | 0.01 | PASS |
| -10°C/7.6V | 0.004948 | 0.004926 | 0.004926 | 0.004904 | 0.01 | PASS |
| 0°C/7.6V | 0.004985 | 0.004948 | 0.004985 | 0.004941 | 0.01 | PASS |
| 10°C/7.6V | 0.004985 | 0.005007 | 0.005052 | 0.004971 | 0.01 | PASS |
| 20°C/7.6V | 0.005044 | 0.005007 | 0.005118 | 0.005022 | 0.01 | PASS |
| 30°C/7.6V | 0.005066 | 0.005066 | 0.005125 | 0.005081 | 0.01 | PASS |
| 40°C/7.6V | 0.005140 | 0.005111 | 0.005147 | 0.005088 | 0.01 | PASS |
| 50°C/7.6V | 0.005199 | 0.005140 | 0.005170 | 0.005118 | 0.01 | PASS |
| 20°C/7.0V | 0.005229 | 0.005199 | 0.005177 | 0.005184 | 0.01 | PASS |
| 20°C/8.4V | 0.005280 | 0.005206 | 0.005206 | 0.005236 | 0.01 | PASS |

6.3. Radiates Emission

The test is in transmitting all mode, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A symbol (dB μ V/m) in the test plot below means (dB μ V/m)

In-band



Radiates Emission from 13.11MHz to 14.01MHz

Note: This graph displays the maximum values of horizontal and vertical by software

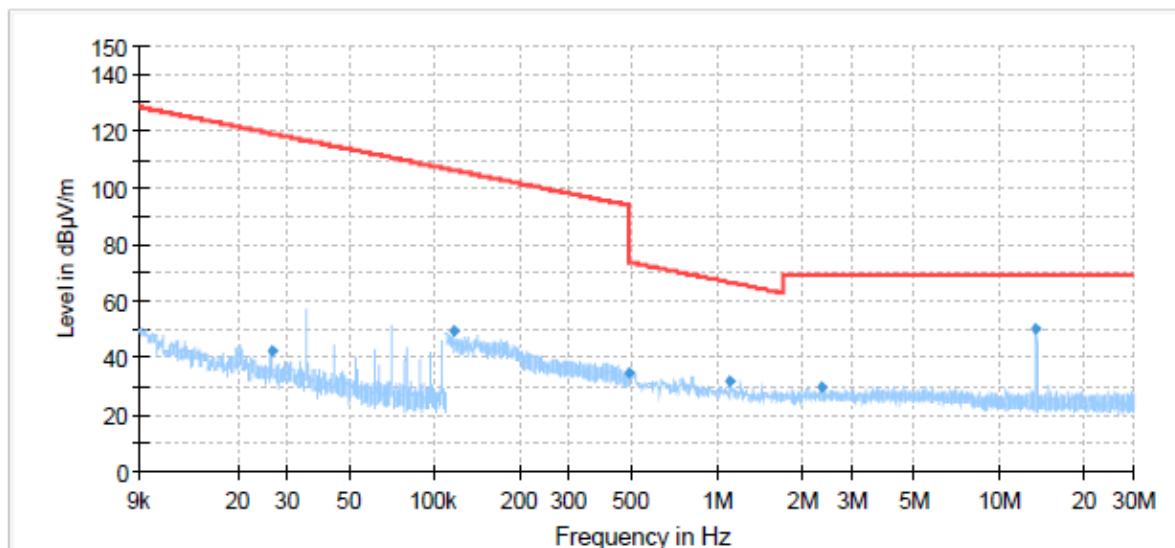
Out-of-band

The test is in transmitting all mode, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

The following graphs display the maximum values of horizontal and vertical by software.

For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

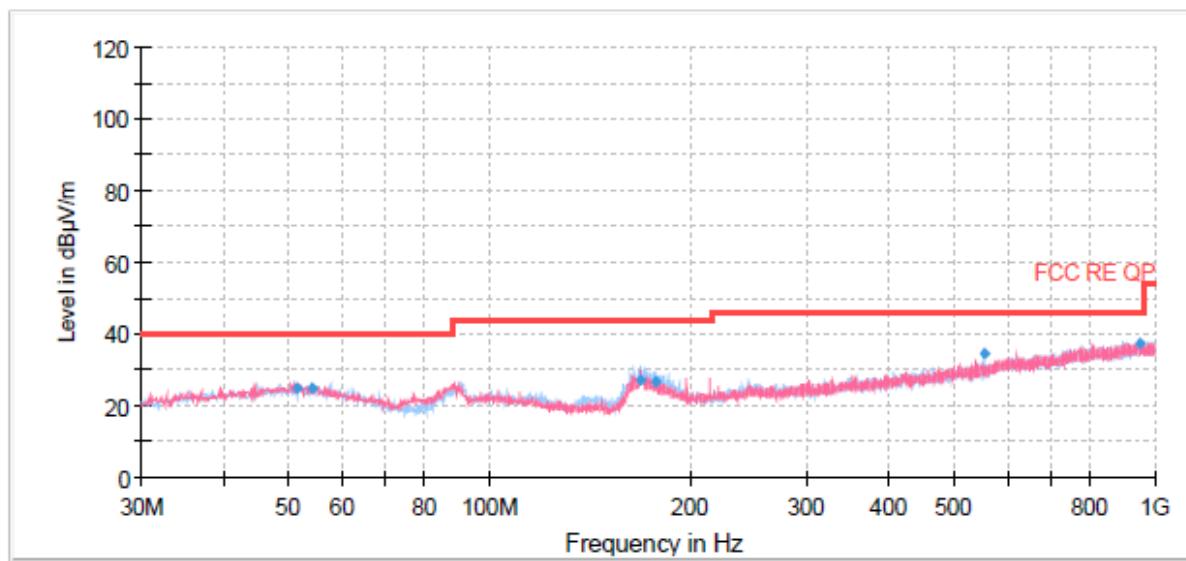
Configurations 1



Radiates Emission from 9kHz to 30MHz

Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-----|---------------|--------------|
| 0.03 | 42.52 | 119.19 | 76.67 | 500.00 | 0.200 | V | 120.00 | 17 |
| 0.12 | 49.33 | 106.29 | 56.96 | 150.00 | 9.000 | V | 107.00 | 17 |
| 0.49 | 35.00 | 73.80 | 38.80 | 150.00 | 9.000 | V | 262.00 | 17 |
| 1.12 | 31.54 | 66.64 | 35.10 | 150.00 | 9.000 | V | 208.00 | 17 |
| 2.35 | 29.74 | 69.50 | 39.76 | 150.00 | 9.000 | V | 77.00 | 17 |
| 13.56 | 50.32 | 69.50 | 19.18 | 150.00 | 9.000 | V | 313.00 | 17 |



Radiates Emission from 30MHz to 1GHz

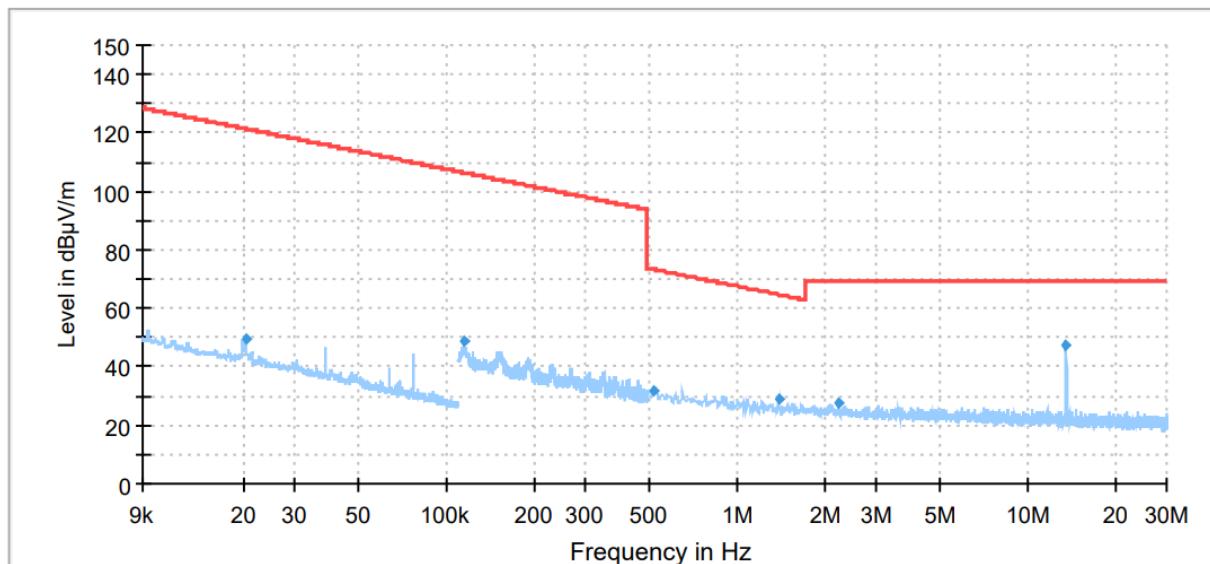
Note: This graph displays the maximum values of horizontal and vertical by software

| Frequency (MHz) | Quasi-Peak (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------------------|----------------------|-------------|-------------|--------------|---------------|---------------------|
| 51.58 | 25.08 | 40.00 | 14.92 | 176.0 | V | 266.00 | 20 |
| 54.05 | 24.69 | 40.00 | 15.31 | 125.0 | H | 72.00 | 20 |
| 168.71 | 27.10 | 43.50 | 16.40 | 197.0 | H | 257.00 | 16 |
| 177.44 | 26.68 | 43.50 | 16.82 | 184.0 | H | 251.00 | 16 |
| 555.01 | 34.49 | 46.00 | 11.51 | 176.0 | H | 284.00 | 26 |
| 948.02 | 37.42 | 46.00 | 8.58 | 100.0 | H | 143.00 | 32 |

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – Quasi-Peak

Configurations 2

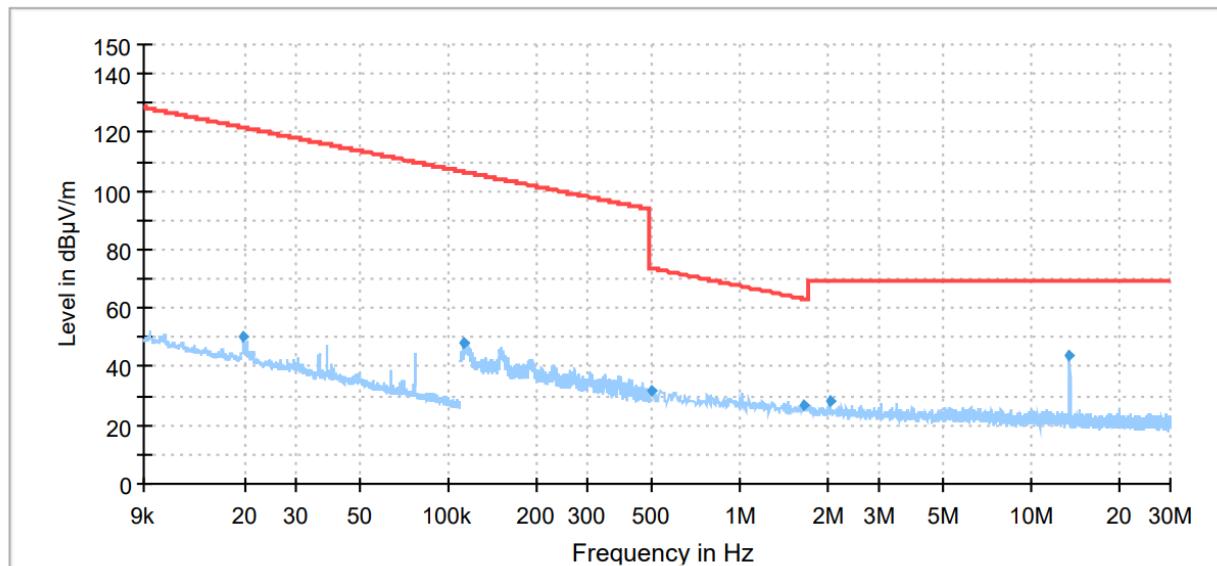


Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----------------|---------------|--------------|
| 0.02 | 49.54 | 121.44 | 71.90 | 500.00 | 156.00 | 17 |
| 0.11 | 49.08 | 106.39 | 57.31 | 150.00 | 106.00 | 17 |
| 0.52 | 31.81 | 73.29 | 41.48 | 150.00 | 26.00 | 17 |
| 1.39 | 29.14 | 64.76 | 35.62 | 150.00 | 0.00 | 17 |
| 2.23 | 27.72 | 69.50 | 41.78 | 150.00 | 99.00 | 17 |
| 13.56 | 47.65 | 69.50 | 21.85 | 150.00 | 2.00 | 17 |

Radiates Emission from 9kHz to 30MHz

Configurations 3

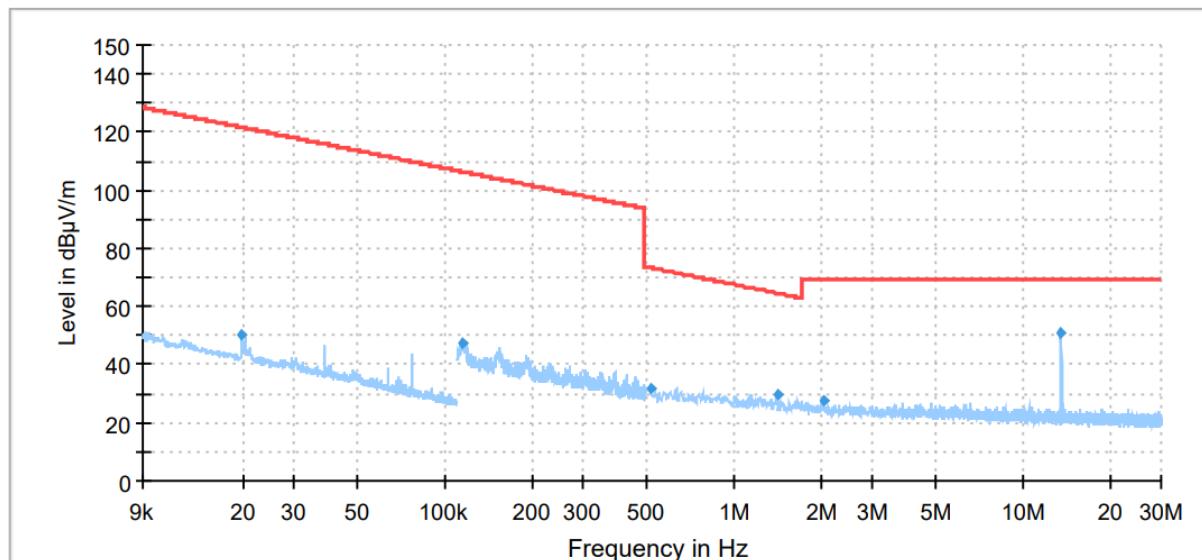


Final Result

| Frequency (MHz) | MaxPeak (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Meas. Time (ms) | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------------|----------------------|-------------|-----------------|---------------|--------------|
| 0.02 | 50.12 | 121.70 | 71.58 | 500.00 | 47.00 | 17 |
| 0.11 | 48.20 | 106.53 | 58.33 | 150.00 | 115.00 | 17 |
| 0.50 | 32.14 | 73.67 | 41.53 | 150.00 | 120.00 | 17 |
| 1.66 | 27.12 | 63.18 | 36.06 | 150.00 | 232.00 | 17 |
| 2.05 | 28.55 | 69.50 | 40.95 | 150.00 | 328.00 | 17 |
| 13.56 | 44.22 | 69.50 | 25.28 | 150.00 | 76.00 | 17 |

Radiates Emission from 9kHz to 30MHz

Configurations 4

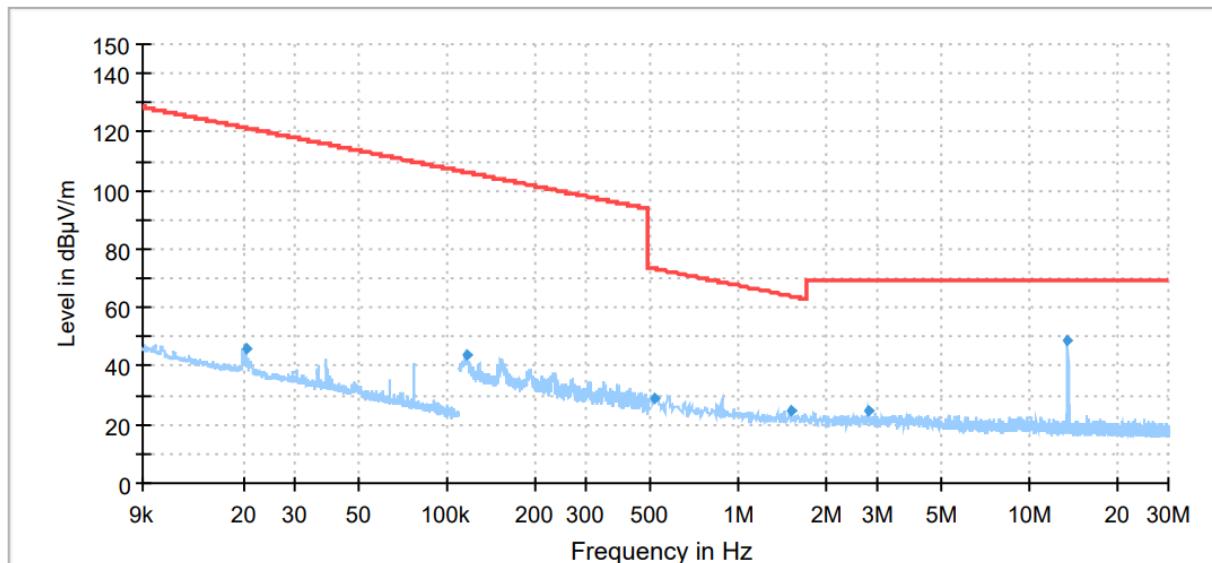


Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----------------|---------------|--------------|
| 0.02 | 49.94 | 121.69 | 71.75 | 500.00 | 119.00 | 17 |
| 0.11 | 47.48 | 106.43 | 58.95 | 150.00 | 100.00 | 17 |
| 0.51 | 31.53 | 73.42 | 41.89 | 150.00 | 334.00 | 17 |
| 1.40 | 29.78 | 64.64 | 34.86 | 150.00 | 22.00 | 17 |
| 2.03 | 27.28 | 69.50 | 42.22 | 150.00 | 24.00 | 17 |
| 13.56 | 50.73 | 69.50 | 18.77 | 150.00 | 173.00 | 17 |

Radiates Emission from 9kHz to 30MHz

Configurations 5

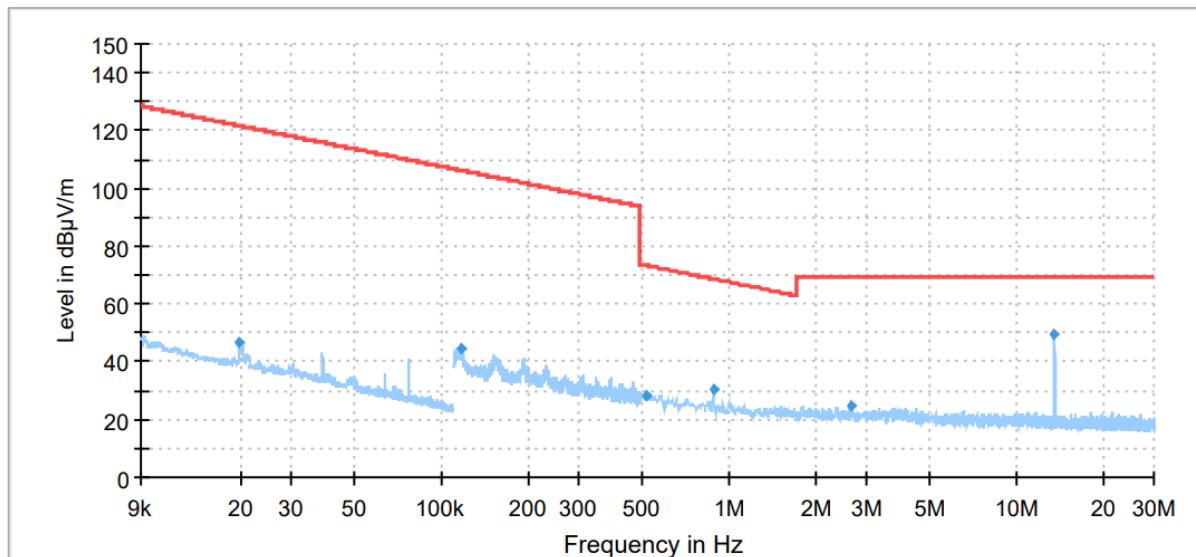


Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----------------|---------------|--------------|
| 0.02 | 45.87 | 121.44 | 75.57 | 500.00 | 144.00 | 17 |
| 0.12 | 43.89 | 106.28 | 62.39 | 150.00 | 121.00 | 17 |
| 0.52 | 28.90 | 73.29 | 44.39 | 150.00 | 10.00 | 17 |
| 1.51 | 24.53 | 64.03 | 39.50 | 150.00 | 27.00 | 17 |
| 2.82 | 24.79 | 69.50 | 44.71 | 150.00 | 188.00 | 17 |
| 13.56 | 49.09 | 69.50 | 20.41 | 150.00 | 219.00 | 17 |

Radiates Emission from 9kHz to 30MHz

Configurations 6

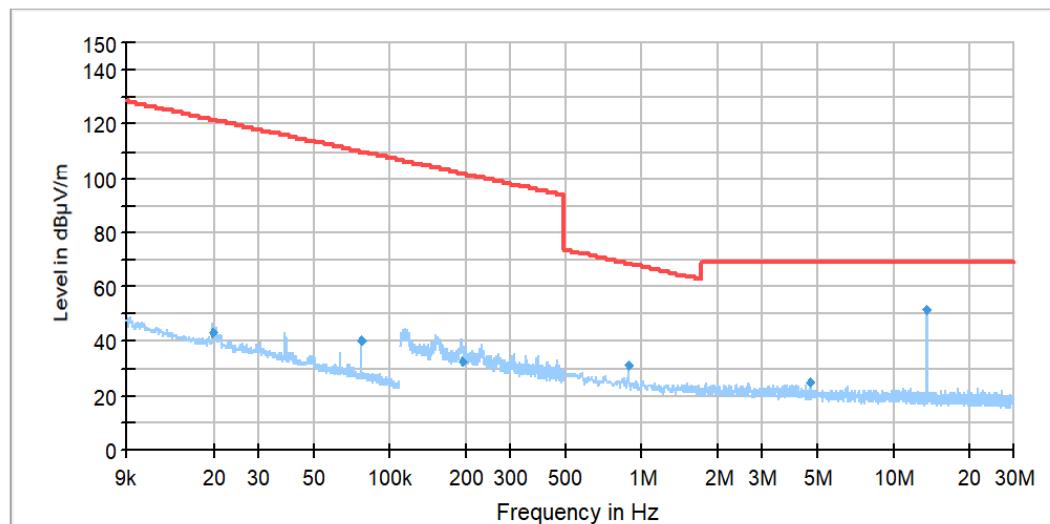


Final Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----------------|---------------|--------------|
| 0.02 | 46.48 | 121.70 | 75.22 | 500.00 | 130.00 | 17 |
| 0.12 | 44.68 | 106.24 | 61.56 | 150.00 | 93.00 | 17 |
| 0.52 | 28.37 | 73.29 | 44.92 | 150.00 | 9.00 | 17 |
| 0.88 | 30.43 | 68.66 | 38.23 | 150.00 | 137.00 | 17 |
| 2.67 | 24.59 | 69.50 | 44.91 | 150.00 | 3.00 | 17 |
| 13.56 | 49.88 | 69.50 | 19.62 | 150.00 | 194.00 | 17 |

Radiates Emission from 9kHz to 30MHz

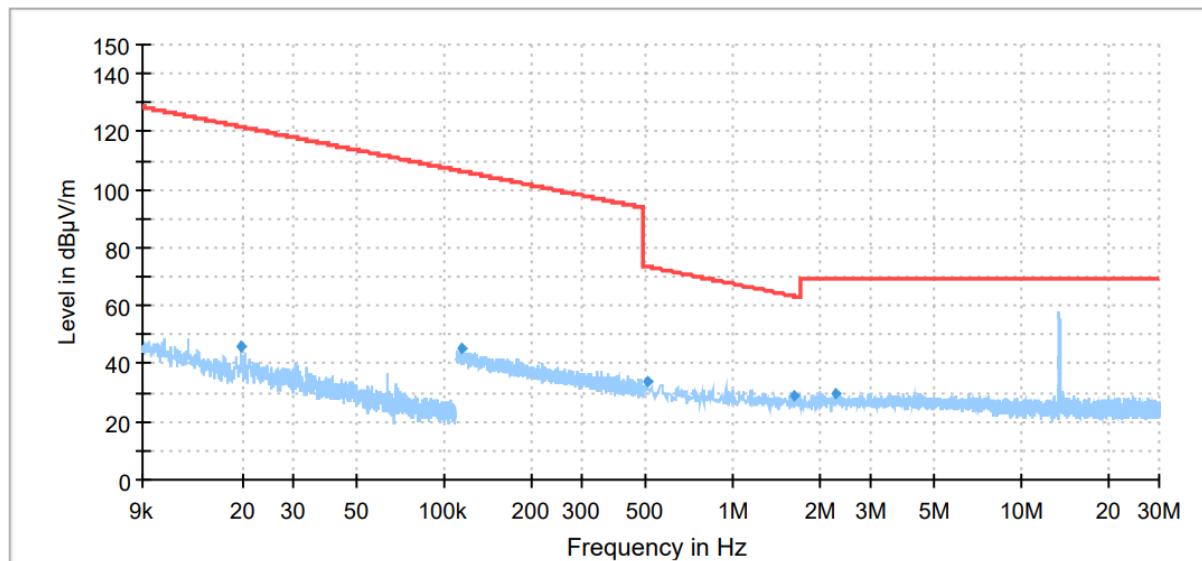
Configurations 7



Final_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----------------|-----------------|-----|---------------|--------------|
| 0.02 | 43.36 | 121.70 | 78.34 | 500.00 | 0.200 | V | 122.0 | 17 |
| 0.08 | 40.18 | 109.36 | 69.18 | 150.00 | 9.000 | V | 234.0 | 17 |
| 0.19 | 32.43 | 101.61 | 69.18 | 150.00 | 9.000 | V | 12.00 | 17 |
| 0.88 | 31.02 | 68.71 | 37.69 | 150.00 | 9.000 | V | 133.0 | 17 |
| 4.67 | 24.59 | 69.50 | 44.91 | 150.00 | 9.000 | V | 10.00 | 17 |
| 13.56 | 51.96 | 69.50 | 17.54 | 150.00 | 9.000 | V | 29.00 | 17 |

Radiates Emission from 9kHz to 30MHz

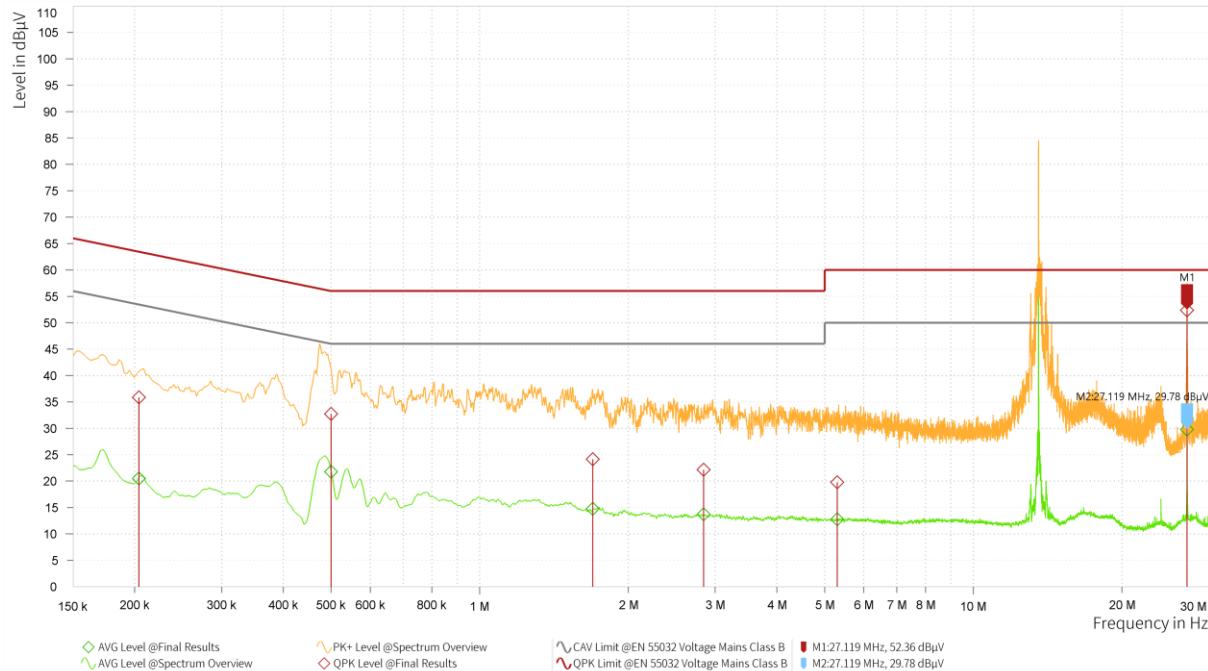
Configurations 8**Final Result**

| Frequency (MHz) | MaxPeak (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Meas. Time (ms) | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------------|----------------------|-------------|-----------------|---------------|--------------|
| 0.02 | 46.25 | 121.70 | 75.45 | 500.00 | 239.00 | 17 |
| 0.12 | 45.09 | 106.38 | 61.30 | 150.00 | 352.00 | 17 |
| 0.50 | 34.06 | 73.54 | 39.49 | 150.00 | 359.00 | 17 |
| 1.63 | 28.96 | 63.33 | 34.37 | 150.00 | 20.00 | 17 |
| 2.25 | 29.94 | 69.50 | 39.56 | 150.00 | 50.00 | 17 |

Radiates Emission from 9kHz to 30MHz

6.4. Conducted Emission

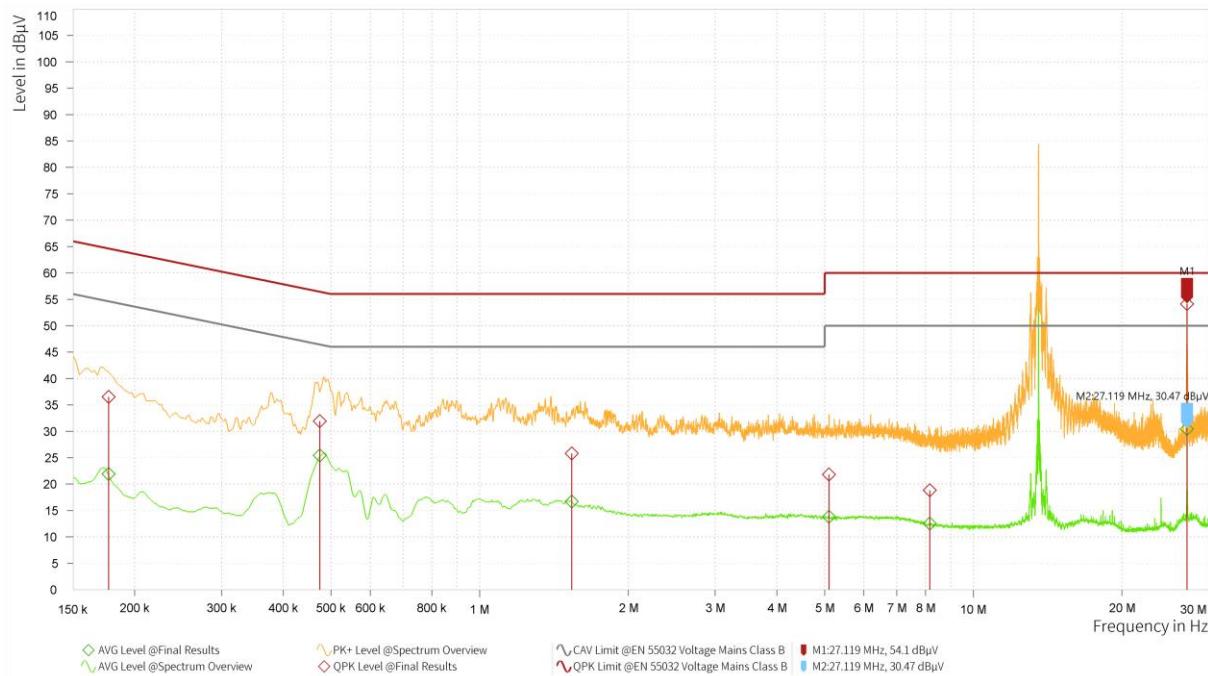
The test is in transmitting all mode, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.



| Frequency (MHz) | QuasiPeak (dBμV) | QuasiPeak Limit (dBμV) | QuasiPeak Margin (dB) | Average (dBμV) | Average Limit (dBμV) | Average Margin (dB) | Corr. (dB) | Line | Bandwidth (kHz) | Meas. Time (ms) |
|-----------------|------------------|------------------------|-----------------------|----------------|----------------------|---------------------|------------|------|-----------------|-----------------|
| 0.204 | 35.84 | 63.45 | 27.61 | 20.49 | 53.45 | 32.95 | 21.01 | L1 | 9.000 | 1.000 |
| 0.500 | 32.72 | 56.00 | 23.28 | 21.76 | 46.00 | 24.24 | 20.78 | L1 | 9.000 | 1.000 |
| 1.694 | 24.15 | 56.00 | 31.85 | 14.74 | 46.00 | 31.26 | 19.75 | L1 | 9.000 | 1.000 |
| 2.843 | 22.16 | 56.00 | 33.84 | 13.70 | 46.00 | 32.30 | 19.50 | L1 | 9.000 | 1.000 |
| 5.303 | 19.76 | 60.00 | 40.24 | 12.77 | 50.00 | 37.23 | 19.40 | L1 | 9.000 | 1.000 |
| 27.119 | 52.36 | 60.00 | 7.64 | 29.78 | 50.00 | 20.22 | 19.81 | L1 | 9.000 | 1.000 |

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz



| Frequency (MHz) | QuasiPeak (dB μ V) | QuasiPeak Limit (dB μ V) | QuasiPeak Margin (dB) | Average (dB μ V) | Average Limit (dB μ V) | Average Margin (dB) | Corr. (dB) | Line | Bandwidth (kHz) | Meas. Time (ms) |
|-----------------|------------------------|------------------------------|-----------------------|----------------------|----------------------------|---------------------|------------|------|-----------------|-----------------|
| 0.177 | 36.52 | 64.63 | 28.10 | 21.94 | 54.63 | 32.69 | 21.04 | N | 9.000 | 1.000 |
| 0.474 | 31.93 | 56.44 | 24.51 | 25.40 | 46.44 | 21.04 | 20.81 | N | 9.000 | 1.000 |
| 1.536 | 25.81 | 56.00 | 30.19 | 16.70 | 46.00 | 29.30 | 19.83 | N | 9.000 | 1.000 |
| 5.102 | 21.84 | 60.00 | 38.16 | 13.79 | 50.00 | 36.21 | 19.41 | N | 9.000 | 1.000 |
| 8.167 | 18.81 | 60.00 | 41.19 | 12.54 | 50.00 | 37.46 | 19.42 | N | 9.000 | 1.000 |
| 27.119 | 54.10 | 60.00 | 5.90 | 30.47 | 50.00 | 19.53 | 19.88 | N | 9.000 | 1.000 |

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

7. Main Test Instruments

Date of Testing: April 16, 2025 ~ May 28, 2025

| Name | Manufacturer | Type | Serial Number | Calibration Date | Expiration Date |
|--------------------------|--------------|-----------|---------------|------------------|-----------------|
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51330870 | 2024-05-07 | 2025-05-06 |
| | | | | 2025-05-06 | 2026-05-05 |
| DC Power Supply | UNI-T | UTP1306S+ | 2205D0517426 | 2024-12-02 | 2025-12-01 |
| Climate Chamber | ESPEC | SU-242 | 93000506 | 2024-12-02 | 2025-12-01 |
| Artificial main network | R&S | ENV216 | 102191 | 2024-12-02 | 2026-12-01 |
| EMI Test Receiver | R&S | ESR | 101667 | 2024-05-07 | 2025-05-06 |
| Software | R&S | EMC32 | 10.35.10 | / | / |
| EMI Test Receiver | R&S | ESCI3 | 100948 | 2024-05-07 | 2025-05-06 |
| Signal Analyzer | R&S | FSV40 | 101186 | 2024-05-07 | 2025-05-06 |
| Loop Antenna | SCHWARZBECK | FMZB1519 | 1519-047 | 2023-04-16 | 2026-04-15 |
| TRILOG Broadband Antenna | SCHWARZBECK | VULB 9163 | 1023 | 2023-07-14 | 2026-07-13 |
| Software | R&S | EMC32 | 9.26.01 | / | / |

Date of Testing: August 19, 2025

| Name | Manufacturer | Type | Serial Number | Calibration Date | Expiration Date |
|-------------------|--------------|----------|---------------|------------------|-----------------|
| EMI Test Receiver | R&S | ESCI3 | 100948 | 2025-05-07 | 2026-05-06 |
| Signal Analyzer | R&S | FSV40 | 101186 | 2025-05-06 | 2026-05-05 |
| Loop Antenna | SCHWARZBECK | FMZB1519 | 1519-047 | 2023-04-16 | 2026-04-15 |
| Software | R&S | EMC32 | 9.26.01 | / | / |

ANNEX A: The EUT Appearance

The EUT Appearance is submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.

***** END OF REPORT *****