

TEST REPORT



Report No.: TW2305190-01E
Applicant: Delta Electronics Incorporated
Product: NovoDS Digital Signage Solution
Model No.: DS210, DS110
Trademark: Vivitek
FCC ID: H79-023DS2
Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

Manager

Dated: June 05, 2023

**Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

SHENZHEN TIMEWAY TESTING LABORATORIES

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688, Fax (755) 83442996, E-Mail: info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion
Content

| | | |
|-------------|---|----|
| 1.0 | General Details | 4 |
| 1.1 | Test Lab Details..... | 4 |
| 1.2 | Applicant Details..... | 4 |
| 1.3 | Description of EUT | 4 |
| 1.4 | Submitted Sample..... | 4 |
| 1.5 | Test Duration..... | 5 |
| 1.6 | Test Uncertainty..... | 5 |
| 1.7 | Test By..... | 5 |
| 2.0 | List of Measurement Equipment | 6 |
| 3.0 | Technical Details | 7 |
| 3.1 | Summary of Test Results..... | 7 |
| 3.2 | Test Standards..... | 7 |
| 4.0 | EUT Modification | 7 |
| 5.0 | Power Line Conducted Emission Test | 8 |
| 5.1 | Schematics of the Test..... | 8 |
| 5.2 | Test Method and Test Procedure..... | 8 |
| 5.3 | Configuration of the EUT..... | 8 |
| 5.4 | EUT Operating Condition..... | 9 |
| 5.5 | Conducted Emission Limit..... | 9 |
| 5.6 | Test Result..... | 9 |
| 6.0 | Radiated Emission test | 12 |
| 6.1 | Test Method and Test Procedure..... | 12 |
| 6.2 | Configuration of the EUT..... | 13 |
| 6.3 | EUT Operation Condition..... | 13 |
| 6.4 | Radiated Emission Limit..... | 14 |
| 6.5 | Test Result..... | 15 |
| 7.0 | Band Edge | 19 |
| 7.1 | Test Method and Test Procedure..... | 19 |
| 7.2 | Radiated Test Setup..... | 19 |
| 7.3 | Configuration of the EUT..... | 19 |
| 7.4 | EUT Operating Condition..... | 19 |
| 7.5 | Band Edge Limit..... | 19 |
| 7.6 | Band Edge Test Result..... | 20 |
| 8.0 | Antenna Requirement | 21 |
| 9.0 | 20dB bandwidth measurement | 22 |
| 10.0 | FCC ID Label | 30 |
| 11.0 | Photo of Test Setup and EUT View | 31 |

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 744189
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Delta Electronics Incorporated
Address: 3 Tungyung rd., Chungli Industrial Zone, Taoyuan County 32063 Taiwan
Telephone: --
Fax: --

1.3 Description of EUT

Product: NovoDS Digital Signage Solution
Manufacturer: Delta Electronics Incorporated
Address: 3 Tungyung rd., Chungli Industrial Zone, Taoyuan County 32063 Taiwan
Trademark: Vivitek
Additional Trademark: N/A
Model Number: DS210
Additional Model Name: DS110
Rating: Input: DC5V, 3.0A
Power Supply: Model: CNXZX3015-050030SA
Input: AC100-240V~, 50/60Hz, 0.4A; Output: DC5V, 3A, 15W
Modulation Type: GFSK (Bluetooth Low Energy)
Operation Frequency: 2402-2480MHz
Channel Separate: 2MHz
Channel Number: 40
Hardware Version: RKS221012
Software Version: build number: 5.0.0.12
Serial No.: N/A
Antenna Designation: Dipole antenna used with reverse polarity antenna connector. The gain of the antenna is 4.21dBi (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2023-05-15 to 2023-06-05

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Andy Xing

The sample tested by _____

Print Name: Andy Xing

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| 2.0 Test Equipment | | | | | |
|---------------------------|--------------|------------------|--------------|--------------|------------|
| Instrument Type | Manufacturer | Model | Serial No. | Date of Cal. | Due Date |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2022-07-15 | 2023-07-14 |
| LISN | R&S | EZH3-Z5 | 100294 | 2022-07-18 | 2023-07-17 |
| LISN | R&S | EZH3-Z5 | 100253 | 2022-07-18 | 2023-07-17 |
| Impuls-Begrenzer | R&S | ESH3-Z2 | 100281 | 2022-07-18 | 2023-07-17 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2022-07-18 | 2025-07-17 |
| Spectrum | R&S | FSIQ26 | 100292 | 2022-07-15 | 2023-07-14 |
| Spectrum | Keysight | N9020A | MY53300466 | 2023-03-05 | 2024-03-04 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2022-07-18 | 2025-07-17 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2022-07-18 | 2024-07-17 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 2022-07-18 | 2023-07-17 |
| Power sensor | Anritsu | MA2491A | 32263 | 2022-07-18 | 2023-07-17 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2022-07-18 | 2025-07-17 |
| 9*6*6 Anechoic | -- | -- | N/A | 2022-07-26 | 2025-07-25 |
| EMI Test Receiver | RS | ESVB | 826156/011 | 2022-07-15 | 2023-07-14 |
| EMI Test Receiver | RS | ESCS 30 | 834115/006 | 2022-07-15 | 2023-07-14 |
| Spectrum | HP/Agilent | E4407B | MY50441392 | 2022-07-15 | 2023-07-14 |
| Spectrum | RS | FSP | 1164.4391.38 | 2022-07-15 | 2023-07-14 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8M/FA | -- | 2022-07-15 | 2023-07-14 |
| RF Cable | Zhengdi | 7m | -- | 2022-07-15 | 2023-07-14 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2022-07-15 | 2023-07-14 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2022-07-15 | 2023-07-14 |
| LISN | SCHAFFNER | NNB42 | 00012 | 2022-08-18 | 2023-07-17 |
| ESPI Test Receiver | R&S | ESPI 3 | 100379 | 2022-07-15 | 2023-07-14 |
| LISN | R&S | EZH3-Z5 | 100294 | 2022-07-18 | 2023-07-17 |

2.2 Automation Test Software

For Conducted Emission Test

| Name | Version |
|--------|-------------------|
| EZ-EMC | Ver.EMC-CON 3A1.1 |

For Radiated Emissions

| Name | Version |
|---|---------|
| EMI Test Software BL410-EV18.91 | V18.905 |
| EMI Test Software BL410-EV18.806 High Frequency | V18.06 |

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3.0 Technical Details

3.1 Summary of test results

| The EUT has been tested according to the following specifications: | | | |
|---|--------------------------------------|---------------|-----------------|
| Standard | Test Type | Result | Notes |
| FCC Part 15, Paragraph 15.203 | Antenna Requirement | Pass | Complies |
| FCC Part 15, Paragraph 15.207 | Conducted Emission Test | Pass | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit | Field Strength of Fundamental | Pass | Complies |
| FCC Part 15, Paragraph 15.209 | Radiated Emission Test | Pass | Complies |
| FCC Part 15 Subpart C Paragraph 15.249(d) Limit | Band Edge Test | Pass | Complies |

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test



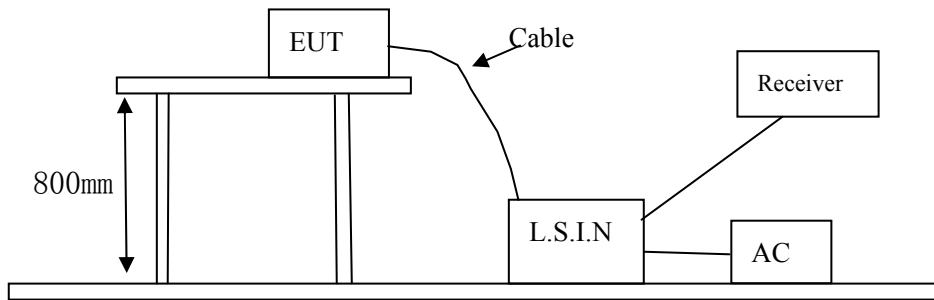
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

40 channels are provided to the EUT

A. EUT

| Device | Manufacturer | Model | FCC ID |
|---------------------------------|--------------------------------|--------------|------------|
| NovoDS Digital Signage Solution | Delta Electronics Incorporated | DS210, DS110 | H79-023DS2 |

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B. Internal Device

| Device | Trademark | Model | FCC ID/DOC |
|---------|-----------|--------------------|------------|
| Adapter | Utech | CNXZX3015-0500305A | DOC |

C. Peripherals

| Device | Trademark | Model | Rating |
|-------------|-----------|---------|--------|
| LED Display | DELL | U2720QM | -- |

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency (MHz) | Limits (dB μ V) | |
|--------------------|---------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66.0~56.0* | 56.0~46.0* |
| 0.50 ~ 5.00 | 56.0 | 46.0 |
| 5.00 ~ 30.00 | 60.0 | 50.0 |

- Notes:
1. *Decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

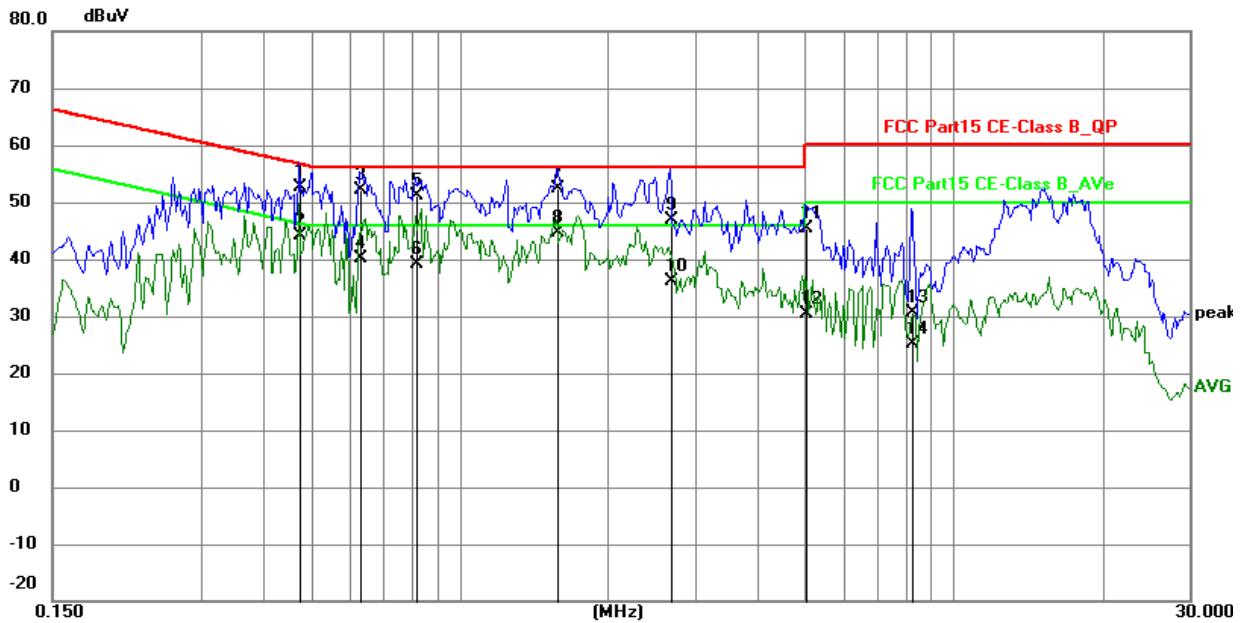
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Results: Pass

Test Power: AC120V/60Hz

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.4737 | 42.80 | 9.77 | 52.57 | 56.45 | -3.88 | QP | P |
| 2 | 0.4737 | 34.24 | 9.77 | 44.01 | 46.45 | -2.44 | AVG | P |
| 3 | 0.6297 | 42.28 | 9.78 | 52.06 | 56.00 | -3.94 | QP | P |
| 4 | 0.6297 | 30.32 | 9.78 | 40.10 | 46.00 | -5.90 | AVG | P |
| 5 | 0.8169 | 41.37 | 9.78 | 51.15 | 56.00 | -4.85 | QP | P |
| 6 | 0.8169 | 29.29 | 9.78 | 39.07 | 46.00 | -6.93 | AVG | P |
| 7 | 1.5735 | 42.50 | 9.80 | 52.30 | 56.00 | -3.70 | QP | P |
| 8 | 1.5735 | 34.95 | 9.80 | 44.75 | 46.00 | -1.25 | AVG | P |
| 9 | 2.6655 | 37.00 | 9.83 | 46.83 | 56.00 | -9.17 | QP | P |
| 10 | 2.6655 | 26.33 | 9.83 | 36.16 | 46.00 | -9.84 | AVG | P |
| 11 | 5.0162 | 35.43 | 9.93 | 45.36 | 60.00 | -14.64 | QP | P |
| 12 | 5.0162 | 20.44 | 9.93 | 30.37 | 50.00 | -19.63 | AVG | P |
| 13 | 8.2299 | 20.46 | 10.07 | 30.53 | 60.00 | -29.47 | QP | P |
| 14 | 8.2299 | 14.94 | 10.07 | 25.01 | 50.00 | -24.99 | AVG | P |

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

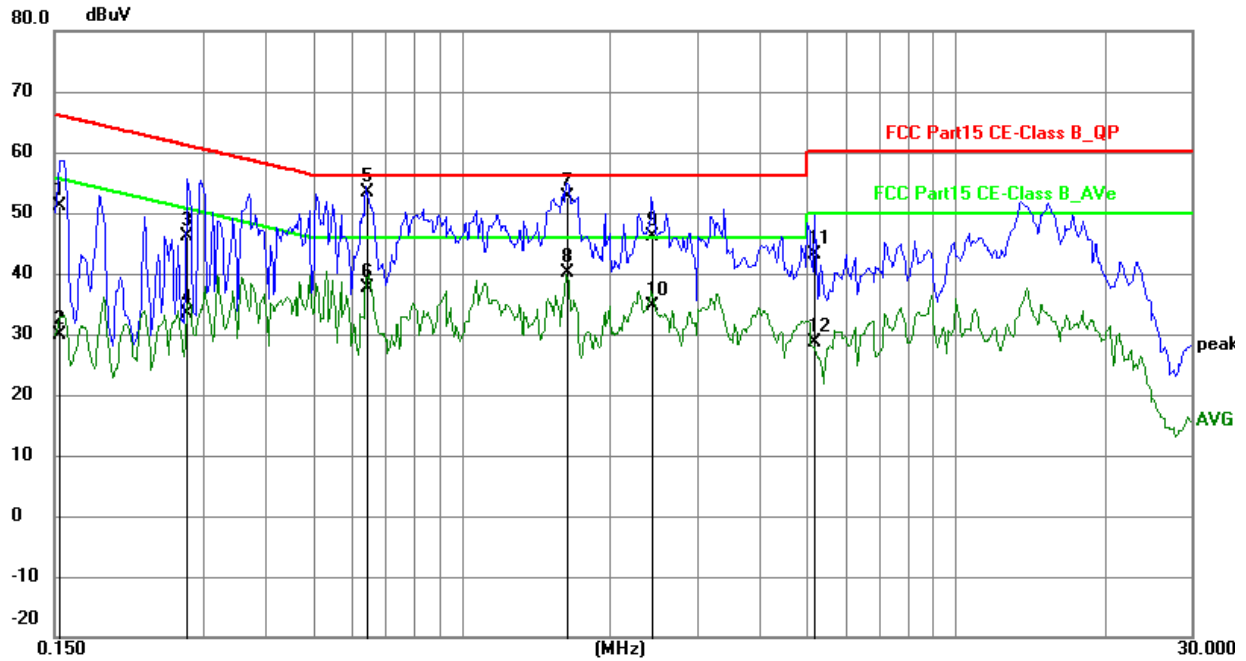
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by BT

Results: Pass

Test Power: AC120V/60Hz

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.1539 | 41.32 | 9.78 | 51.10 | 65.79 | -14.69 | QP | P |
| 2 | 0.1539 | 20.17 | 9.78 | 29.95 | 55.79 | -25.84 | AVG | P |
| 3 | 0.2787 | 36.26 | 9.76 | 46.02 | 60.85 | -14.83 | QP | P |
| 4 | 0.2787 | 23.60 | 9.76 | 33.36 | 50.85 | -17.49 | AVG | P |
| 5 | 0.6414 | 43.51 | 9.78 | 53.29 | 56.00 | -2.71 | QP | P |
| 6 | 0.6414 | 27.83 | 9.78 | 37.61 | 46.00 | -8.39 | AVG | P |
| 7 | 1.6320 | 42.84 | 9.80 | 52.64 | 56.00 | -3.36 | QP | P |
| 8 | 1.6320 | 30.37 | 9.80 | 40.17 | 46.00 | -5.83 | AVG | P |
| 9 | 2.4276 | 36.32 | 9.82 | 46.14 | 56.00 | -9.86 | QP | P |
| 10 | 2.4276 | 24.90 | 9.82 | 34.72 | 46.00 | -11.28 | AVG | P |
| 11 | 5.1840 | 33.10 | 9.94 | 43.04 | 60.00 | -16.96 | QP | P |
| 12 | 5.1840 | 18.68 | 9.94 | 28.62 | 50.00 | -21.38 | AVG | P |

Note: Both 240V and 120V voltages are tested, the data of the worst-case is shown in the report.

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.

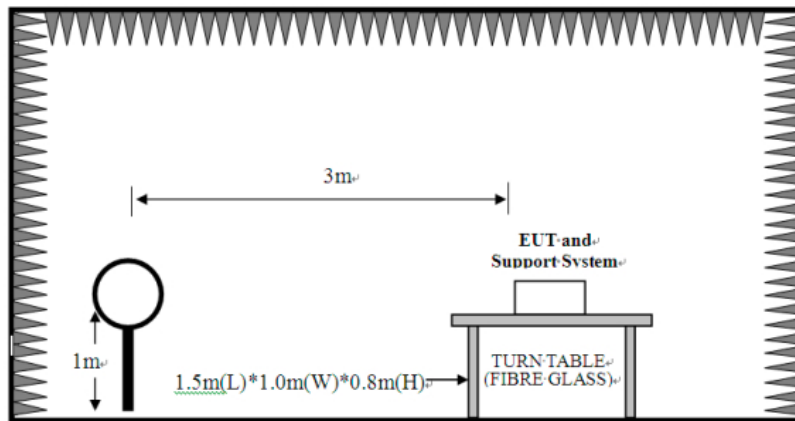
(3) The frequency spectrum is set as follows:

| Frequency | Detector | RBW | VBW | Value |
|--------------|------------|--------|--------|------------|
| 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

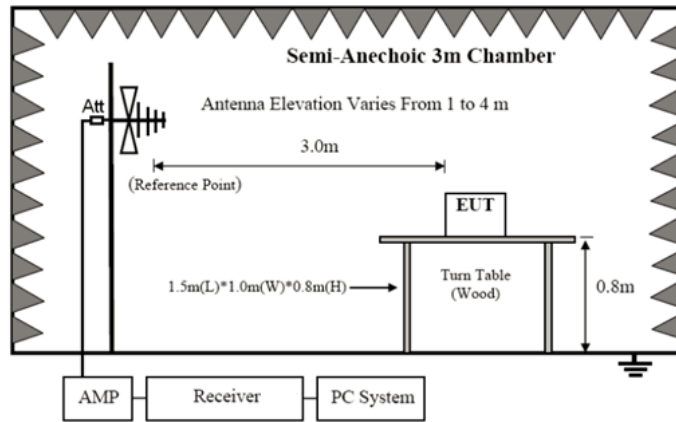
Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

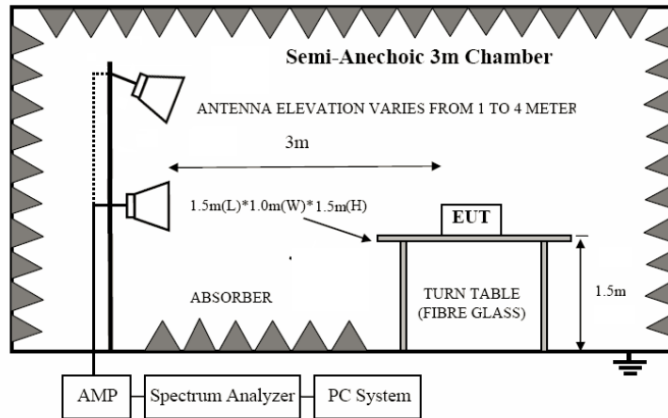


For radiated emissions from 30MHz to 1GHz

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For radiated emissions above 1GHz



6.2 Configuration of the EUT
Same as section 5.3 of this report

6.3 EUT Operating Condition
Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

| Fundamental Frequency (MHz) | Field Strength of Fundamental (3m) | | Field Strength of Harmonics (3m) | | |
|-----------------------------|------------------------------------|-------------------------|----------------------------------|--------------|-----------|
| | mV/m | dBuV/m | uV/m | dBuV/m | |
| 2400-2483.5 | 50 | 94 (Average) 114 (Peak) | 500 | 54 (Average) | 74 (Peak) |

- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

| Frequency Range (MHz) | Distance (m) | Field strength (dB μ V/m) |
|-----------------------|--------------|-----------------------------------|
| 0.009-0.490 | 3 | 20log(2400/F(kHz)) +40log (300/3) |
| 0.490-1.705 | 3 | 20log(24000/F(kHz)) +40log (30/3) |
| 1.705-30 | 3 | 69.5 |
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
 5. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
 6. BLE_1M and BLE_2M were tested and only the worst case was recorded in the test report and BLE_1M modulation was the worst case.

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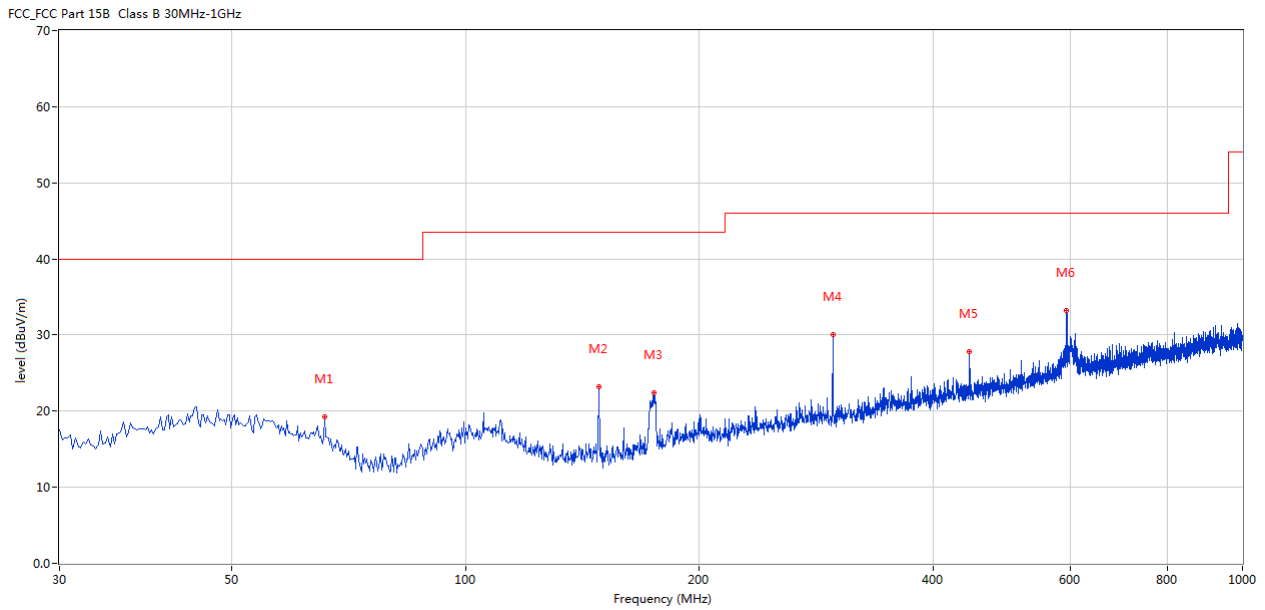


General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|------------|---------|
| 1 | 65.881 | 19.27 | -13.87 | 40.0 | -20.73 | Peak | 22.00 | 100 | Horizontal | Pass |
| 2 | 148.553 | 23.15 | -17.15 | 43.5 | -20.35 | Peak | 185.00 | 100 | Horizontal | Pass |
| 3 | 174.979 | 22.40 | -15.68 | 43.5 | -21.10 | Peak | 137.00 | 100 | Horizontal | Pass |
| 4 | 296.926 | 30.10 | -11.07 | 46.0 | -15.90 | Peak | 153.00 | 100 | Horizontal | Pass |
| 5 | 445.541 | 27.85 | -8.02 | 46.0 | -18.15 | Peak | 153.00 | 100 | Horizontal | Pass |
| 6 | 593.914 | 33.19 | -5.25 | 46.0 | -12.81 | Peak | 147.00 | 100 | Horizontal | Pass |

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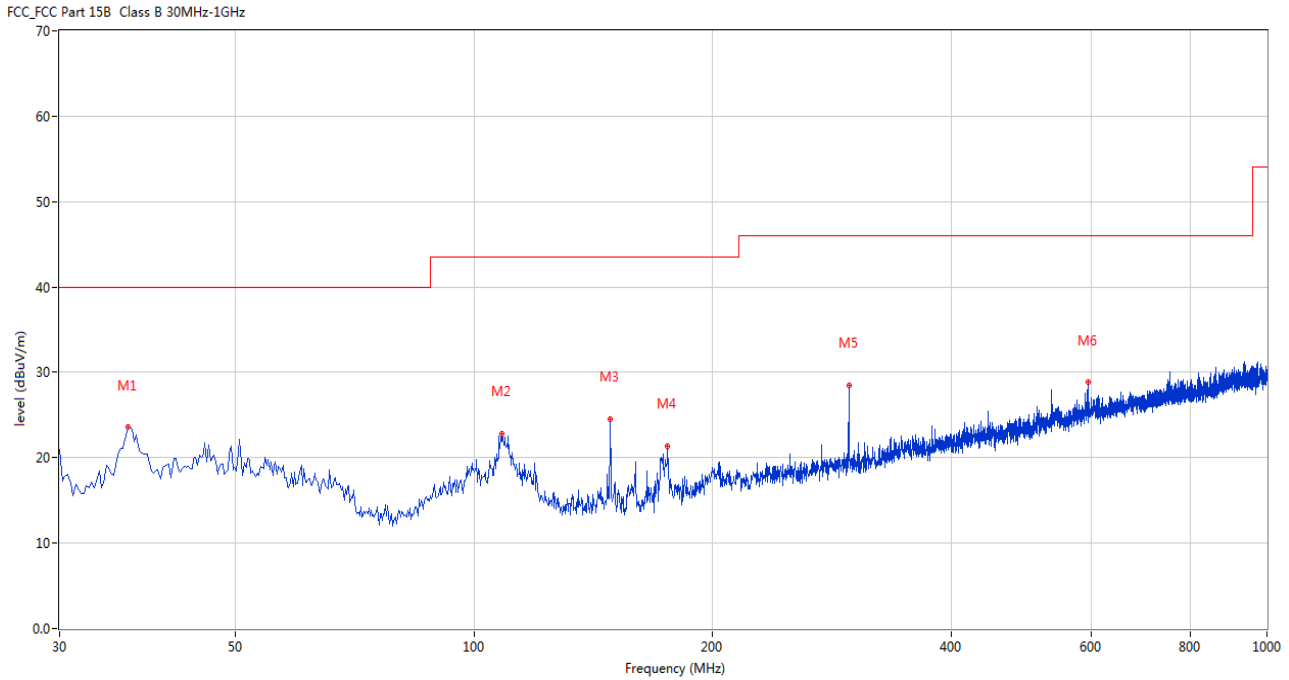


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|----------|---------|
| 1 | 36.546 | 23.53 | -13.45 | 40.0 | -16.47 | Peak | 100.00 | 100 | Vertical | Pass |
| 2 | 108.550 | 22.86 | -13.46 | 43.5 | -20.64 | Peak | 354.00 | 100 | Vertical | Pass |
| 3 | 148.553 | 24.47 | -17.15 | 43.5 | -19.03 | Peak | 116.00 | 100 | Vertical | Pass |
| 4 | 175.464 | 21.37 | -15.57 | 43.5 | -22.13 | Peak | 0.00 | 100 | Vertical | Pass |
| 5 | 296.926 | 28.44 | -11.07 | 46.0 | -17.56 | Peak | 42.00 | 100 | Vertical | Pass |
| 6 | 594.156 | 28.81 | -5.26 | 46.0 | -17.19 | Peak | 219.00 | 100 | Vertical | Pass |

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Operation Mode: Transmitting under Low Channel (2402MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2402 | 85.23 | H | 114(Peak)/ 94(AV) |
| 2402 | 90.06 | V | 114(Peak)/ 94(AV) |
| 4804 | -- | H | 74(Peak)/ 54(AV) |
| 4804 | -- | V | 74(Peak)/ 54(AV) |
| 7206 | -- | H/V | 74(Peak)/ 54(AV) |
| 9608 | -- | H/V | 74(Peak)/ 54(AV) |
| 12010 | -- | H/V | 74(Peak)/ 54(AV) |
| 14412 | -- | H/V | 74(Peak)/ 54(AV) |
| 16814 | -- | H/V | 74(Peak)/ 54(AV) |
| 19216 | -- | H/V | 74(Peak)/ 54(AV) |
| 21618 | -- | H/V | 74(Peak)/ 54(AV) |
| 24020 | -- | H/V | 74(Peak)/ 54(AV) |

- Note: 1. Level = Reading + AF + Cable - Preamp
 2. Remark “---” means that the emissions level is too low to be measured

Operation Mode: Transmitting g under Middle Channel (2440MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2440 | 85.30 | H | 114(Peak)/ 94(AV) |
| 2440 | 90.21 | V | 114(Peak)/ 94(AV) |
| 4880 | -- | H | 74(Peak)/ 54(AV) |
| 4880 | -- | V | 74(Peak)/ 54(AV) |
| 7320 | -- | H/V | 74(Peak)/ 54(AV) |
| 9760 | -- | H/V | 74(Peak)/ 54(AV) |
| 12200 | -- | H/V | 74(Peak)/ 54(AV) |
| 14640 | -- | H/V | 74(Peak)/ 54(AV) |
| 17080 | -- | H/V | 74(Peak)/ 54(AV) |
| 19520 | -- | H/V | 74(Peak)/ 54(AV) |
| 21960 | -- | H/V | 74(Peak)/ 54(AV) |
| 24400 | -- | H/V | 74(Peak)/ 54(AV) |

- Note: 1. Level = Reading + AF + Cable - Preamp
 2. Remark “---” means that the emissions level is too low to be measured

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Operation Mode: Transmitting under High Channel (2480MHz)

| Frequency (MHz) | Level@3m (dB μ V/m) | Antenna Polarity | Limit@3m (dB μ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 2480 | 85.61 | H | 114(Peak)/ 94(AV) |
| 2480 | 91.93 | V | 114(Peak)/ 94(AV) |
| 4960 | -- | H | 74(Peak)/ 54(AV) |
| 4960 | -- | V | 74(Peak)/ 54(AV) |
| 7440 | -- | H/V | 74(Peak)/ 54(AV) |
| 9920 | -- | H/V | 74(Peak)/ 54(AV) |
| 12400 | -- | H/V | 74(Peak)/ 54(AV) |
| 14880 | -- | H/V | 74(Peak)/ 54(AV) |
| 17360 | -- | H/V | 74(Peak)/ 54(AV) |
| 19840 | -- | H/V | 74(Peak)/ 54(AV) |
| 22320 | -- | H/V | 74(Peak)/ 54(AV) |
| 24800 | -- | H/V | 74(Peak)/ 54(AV) |

- Note: 1. Level = Reading + AF + Cable - Preamp
2. Remark “---” means that the emissions level is too low to be measured

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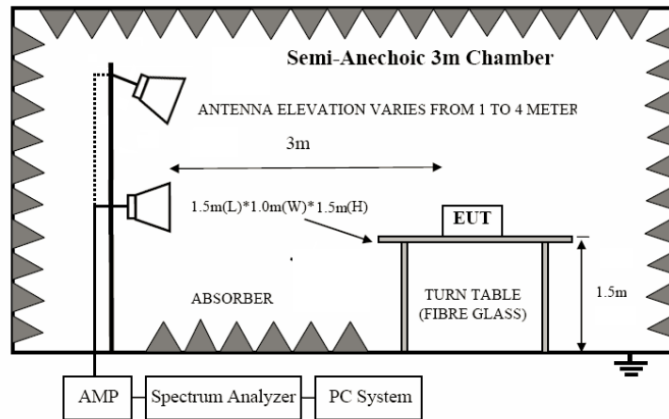


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

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7.6 Test Result

Restricted band Measurement

| | | | | |
|-----------------------|---------------------------------|-------|--------------|------------------|
| EUT | NovoDS Digital Signage Solution | | Model | DS210 |
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| Low Channel, Vertical | | | | |
| 2390 | PK (dB μ V/m) | 41.35 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| 2400 | PK (dB μ V/m) | 63.12 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | 46.85 | | 54(dB μ V/m) |
| Low Channel, Vertical | | | | |
| 2390 | PK (dB μ V/m) | 41.55 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| 2400 | PK (dB μ V/m) | 59.71 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | 44.28 | | 54(dB μ V/m) |

Restricted band Measurement

| | | | | |
|--------------------------|---------------------------------|-------|--------------|------------------|
| EUT | NovoDS Digital Signage Solution | | Model | DS210 |
| Mode | Keeping Transmitting | | Test Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | Detector | PK |
| High Channel, Horizontal | | | | |
| 2483.5 | PK (dB μ V/m) | 50.53 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | -- | | 54(dB μ V/m) |
| High Channel, Vertical | | | | |
| 2483.5 | PK (dB μ V/m) | 55.76 | Limit | 74(dB μ V/m) |
| | AV (dB μ V/m) | 41.32 | | 54(dB μ V/m) |

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.
 2. BLE_1M and BLE_2M were tested and only the worst case was recorded in the test report and BLE_1M modulation was the worst case.

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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a Dipole antenna used with reverse polarity antenna connectors. The gain is 4.21dBi (Get from the antenna specification). It fulfills the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Type of Modulation: GFSK 1M

| EUT | NovoDS Digital Signage Solution | | Model | DS210 |
|-------------|---------------------------------|-----------------------|---------------------|------------|
| Mode | Keep Transmitting | | Input Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (MHz) | Minimum Limit (kHz) | Pass/ Fail |
| Low | 2402 | 1.182 | -- | Pass |
| Middle | 2441 | 1.181 | -- | Pass |
| High | 2480 | 1.184 | -- | Pass |

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Test Figure:

1. Condition: Low Channel



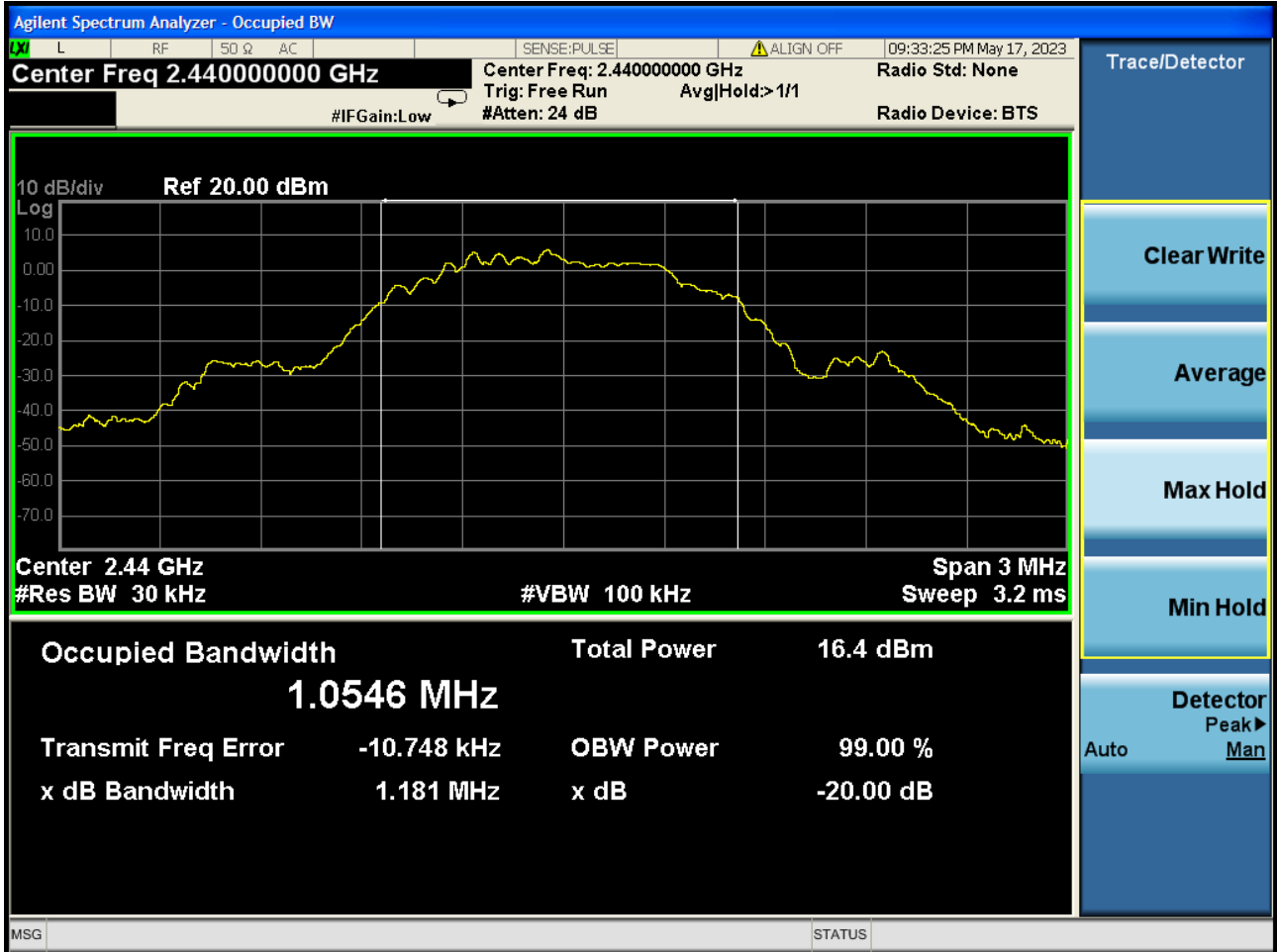
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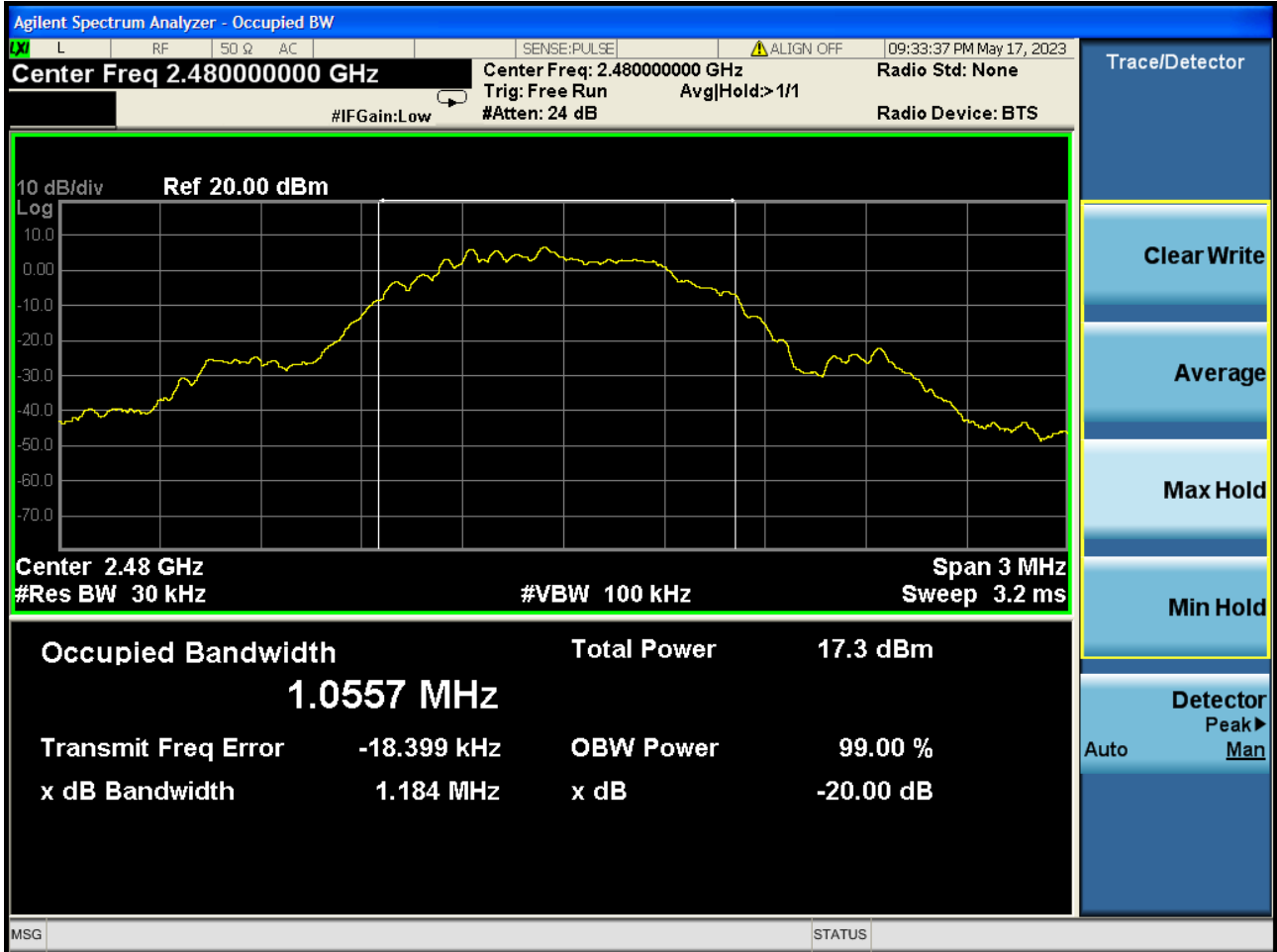
2. Condition: Middle Channel



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3. High Channel



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Type of Modulation: GFSK 2M

| EUT | NovoDS Digital Signage Solution | | Model | DS210 |
|-------------|---------------------------------|-----------------------|---------------------|------------|
| Mode | Keep Transmitting | | Input Voltage | 120V~ |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Channel | Channel Frequency (MHz) | 20 dB Bandwidth (MHz) | Minimum Limit (kHz) | Pass/ Fail |
| Low | 2402 | 2.214 | -- | Pass |
| Middle | 2441 | 2.244 | -- | Pass |
| High | 2480 | 2.247 | -- | Pass |

The report refers only to the sample tested and does not apply to the bulk.

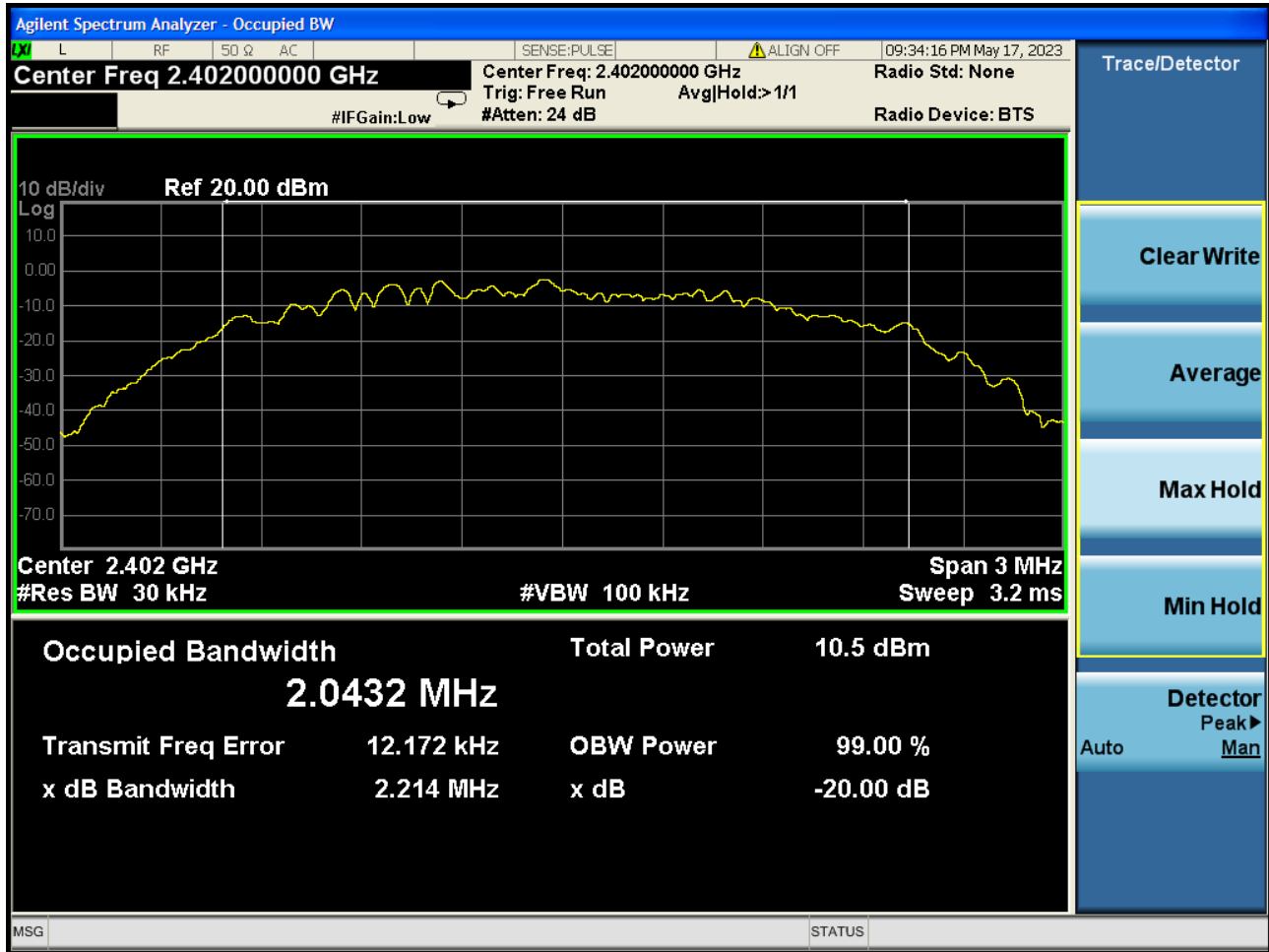
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Test Figure:

1. Condition: Low Channel



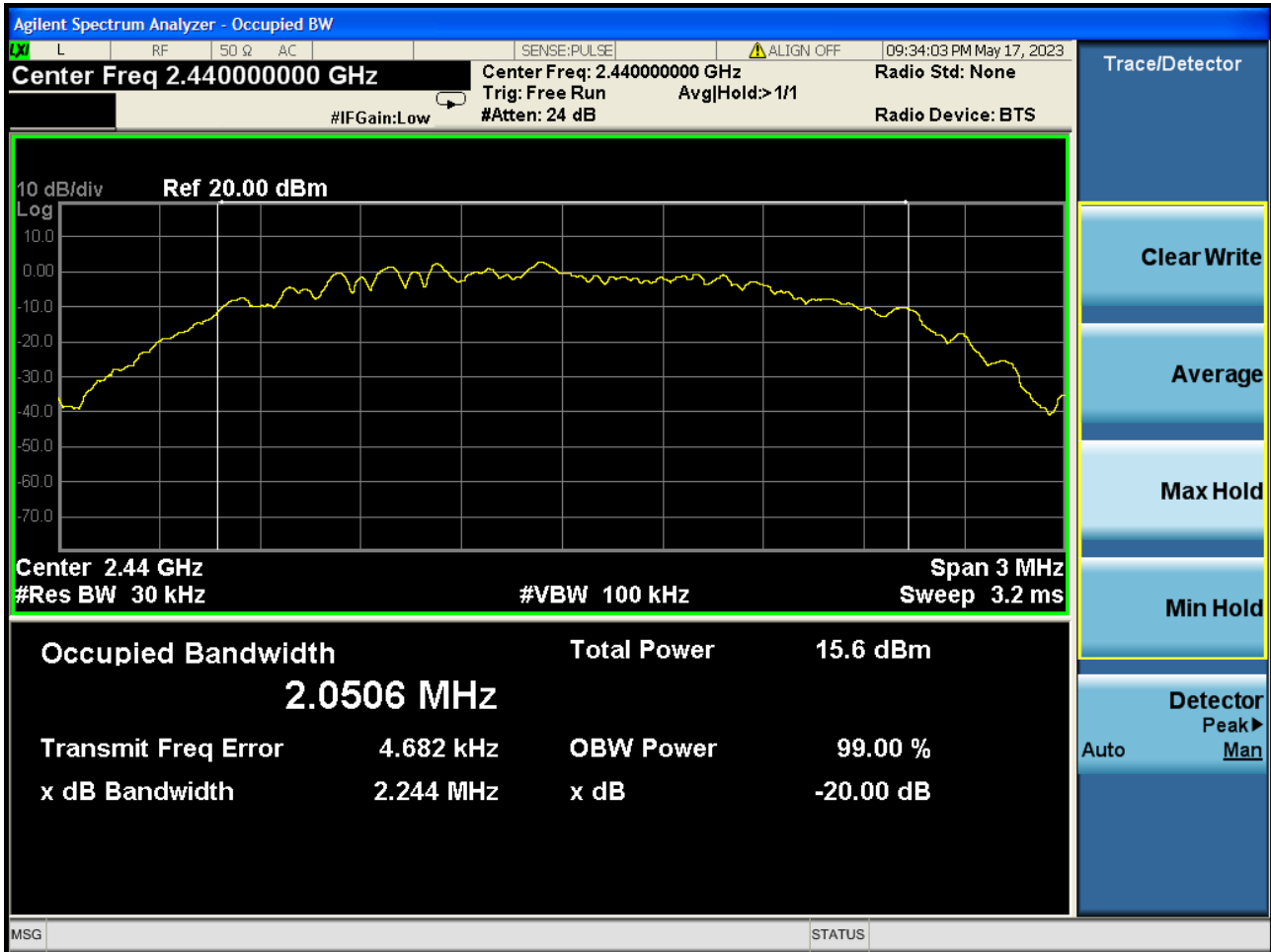
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2. Condition: Middle Channel



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3. High Channel



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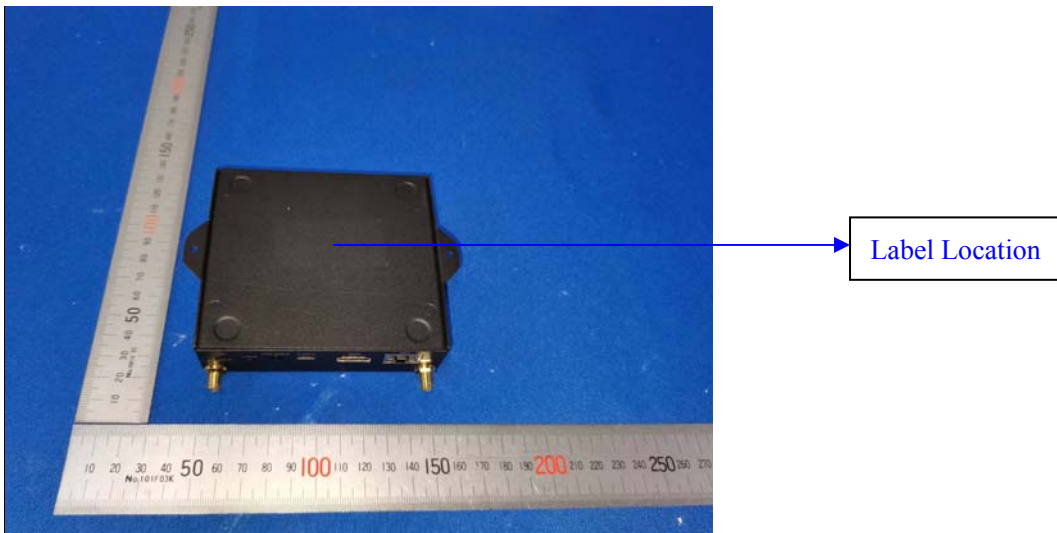
10.0 FCC ID Label

FCC ID: H79-023DS2

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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- 11.0 Photo of testing
- 11.1 Conducted test View



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Radiated emission test view



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Outside View



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Outside View



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Outside View



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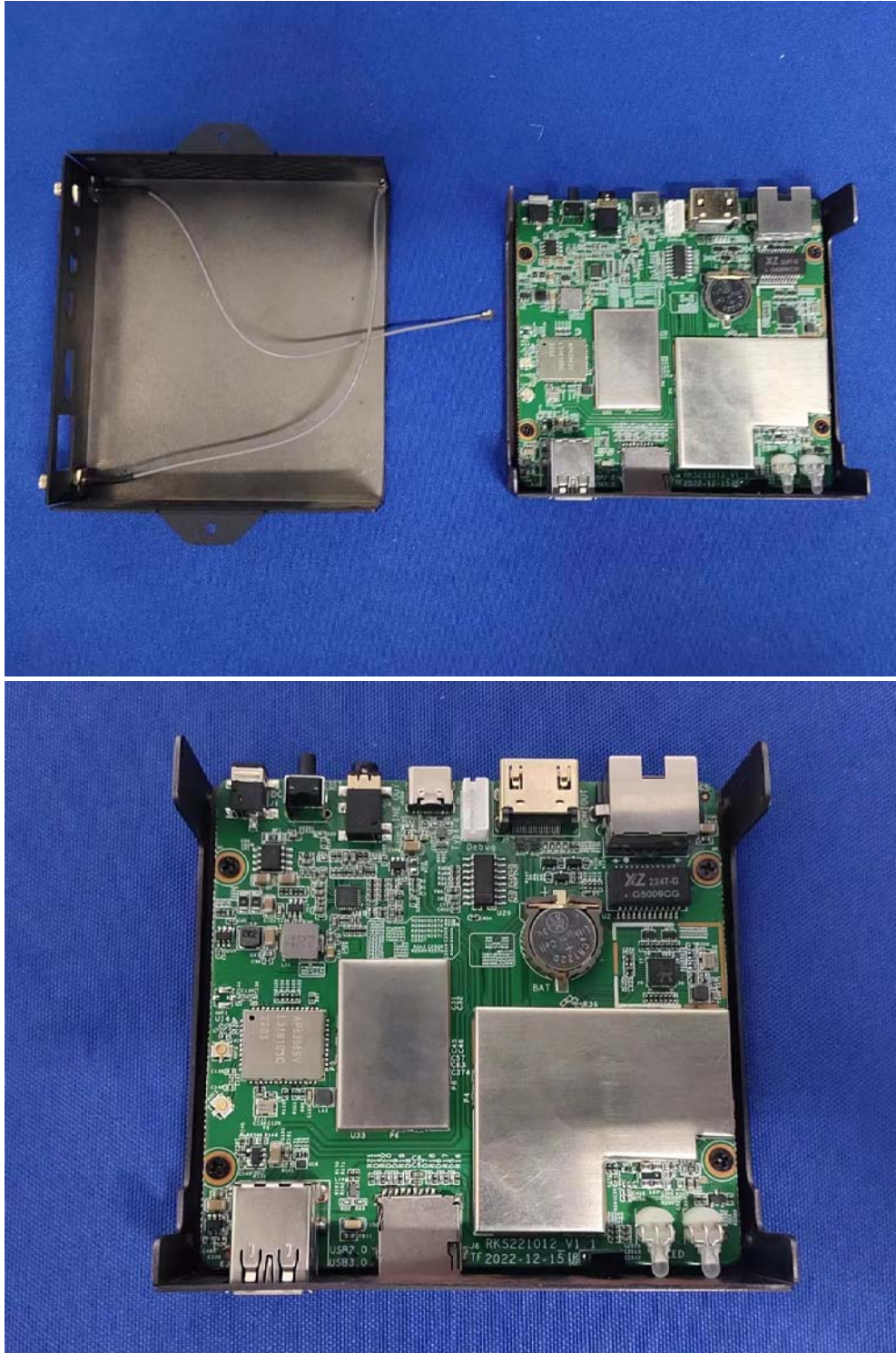
Power Supply



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Inside view



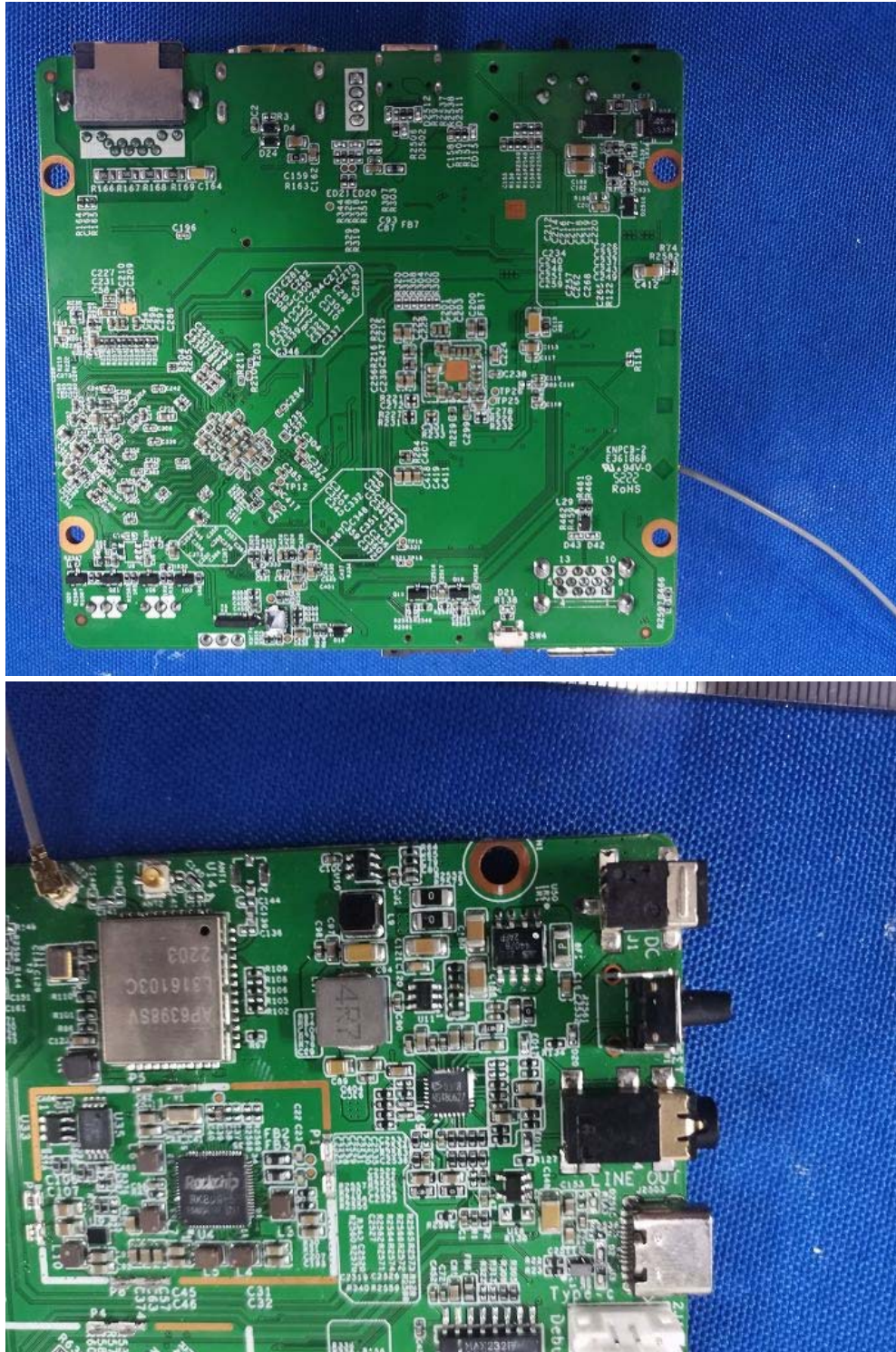
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Inside view

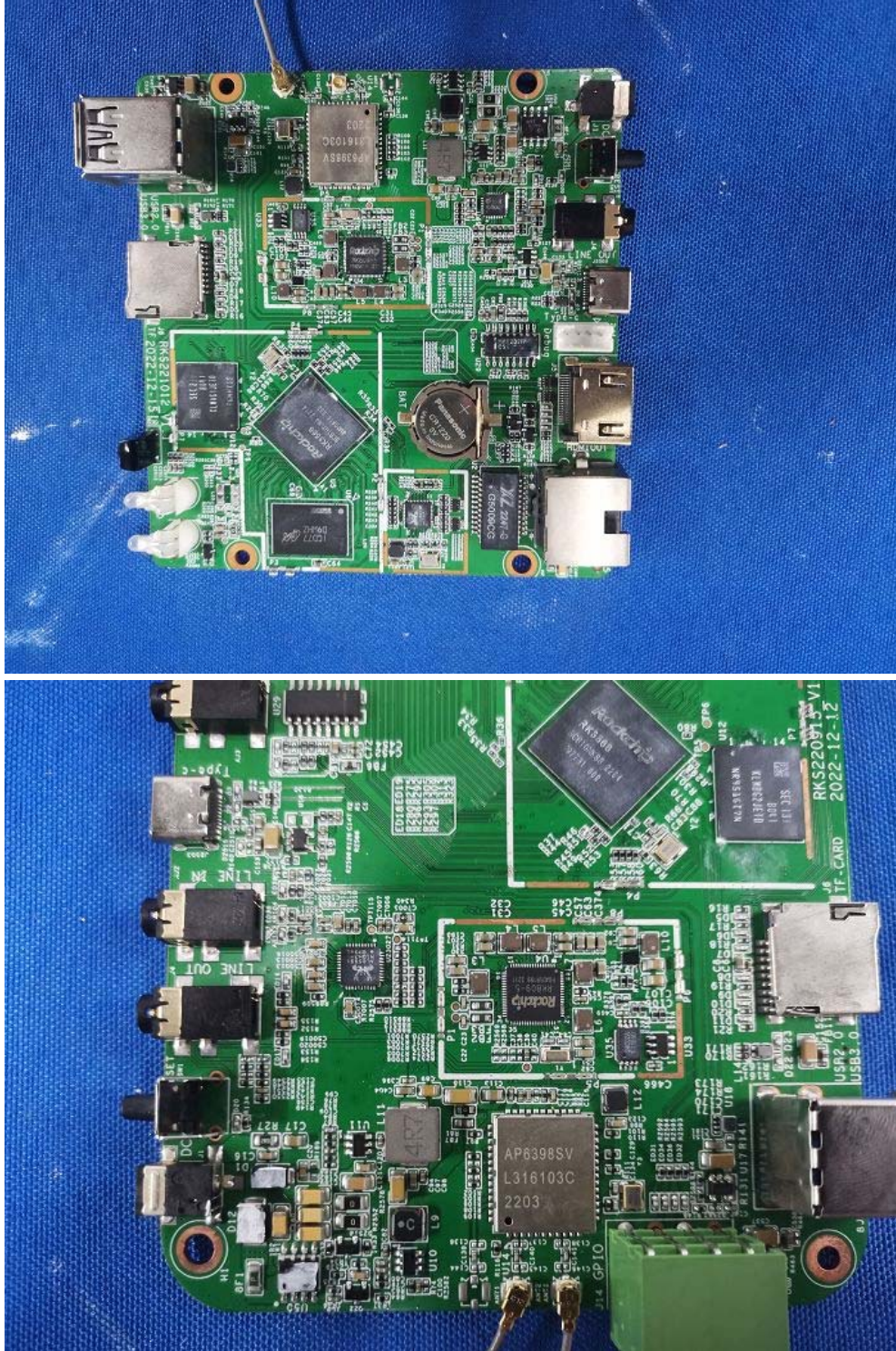


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Inside view

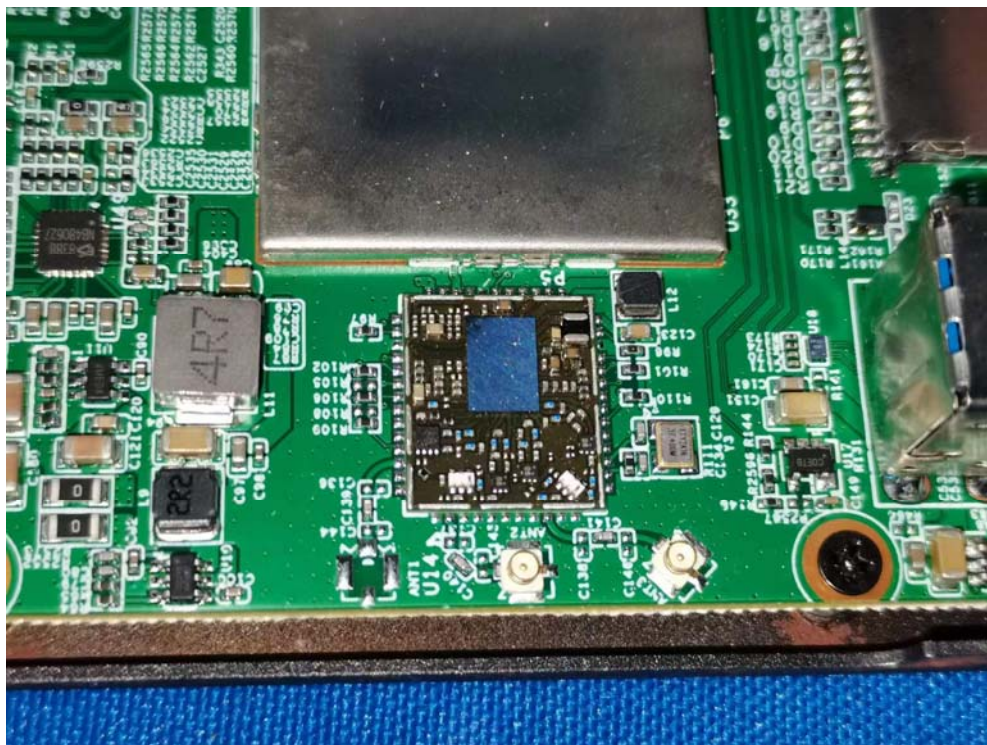


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Inside view



--End of the report--

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