

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|----------------------------------|---------------------------------------|----------------|--------------|---------|------------------|-----------------|----------------|--|---|---|-----------------------|----------------------|--|---------|---------------|----------|------------------|----------------|----------|--|---|---|----------------------|------------------|--|
| Prüfbericht-Nr.: <i>Test report no.:</i> | 60400561 001 | Auftrags-Nr.: <i>Order no.:</i> | 168270705 | Seite 1 von 16 <i>Page 1 of 16</i> | | | | | | | | | | | | | | | | | | | | | | | | |
| Kunden-Referenz-Nr.: <i>Client reference no.:</i> | N/A | Auftragsdatum: <i>Order date:</i> | 2020-06-24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Auftraggeber: <i>Client:</i> | Beijing Niu Technology Co., Ltd. Block A, 11F, No.10 Wangjing street, Chaoyang, Beijing | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prüfgegenstand: <i>Test item:</i> | Remote Controller | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i> | D23 (Trademark: NIU) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Auftrags-Inhalt: <i>Order content:</i> | FCC and IC approval | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prüfgrundlage: <i>Test specification:</i> | CFR47 FCC Part 15: Subpart C Section 15.231 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2: Subpart J Section 2.1093 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wareneingangsdatum: <i>Date of sample receipt:</i> | 2020-06-29 | Please refer to EUT Photos | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prüfmuster-Nr.: <i>Test sample no.:</i> | A002855156-001~004 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prüfzeitraum: <i>Testing period:</i> | 2020-06-30 - 2020-08-07 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ort der Prüfung: <i>Place of testing:</i> | TÜV Rheinland (Shenzhen) Co., Ltd. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prüflaboratorium: <i>Testing laboratory:</i> | TÜV Rheinland (Shenzhen) Co., Ltd. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prüfergebnis*: <i>Test result*:</i> | Pass | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| geprüft von: <i>tested by:</i> | genehmigt von: <i>authorized by:</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Datum: <i>Date:</i> 2020-09-01 | <i>Bell Hu</i> | Ausstellungsdatum: <i>Issue date:</i> 2020-09-01 | <i>Winnie Hou</i> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stellung / Position | Bell Hu / Project Manager | Stellung / Position | Winnie Hou / Technical Certifier | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sonstiges / Other: FCC ID: 2AQ95-NIUD23-433 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i> | | Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="0"> <tr> <td>* Legende:</td> <td>1 = sehr gut</td> <td>2 = gut</td> <td>3 = befriedigend</td> <td>4 = ausreichend</td> <td>5 = mangelhaft</td> </tr> <tr> <td></td> <td>P(ass) = entspricht o.g. Prüfgrundlage(n)</td> <td>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td> <td>N/A = nicht anwendbar</td> <td>N/T = nicht getestet</td> <td></td> </tr> <tr> <td>Legend:</td> <td>1 = very good</td> <td>2 = good</td> <td>3 = satisfactory</td> <td>4 = sufficient</td> <td>5 = poor</td> </tr> <tr> <td></td> <td>P(ass) = passed a.m. test specifications(s)</td> <td>F(ail) = failed a.m. test specifications(s)</td> <td>N/A = not applicable</td> <td>N/T = not tested</td> <td></td> </tr> </table> | | | | | * Legende: | 1 = sehr gut | 2 = gut | 3 = befriedigend | 4 = ausreichend | 5 = mangelhaft | | P(ass) = entspricht o.g. Prüfgrundlage(n) | F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | N/A = nicht anwendbar | N/T = nicht getestet | | Legend: | 1 = very good | 2 = good | 3 = satisfactory | 4 = sufficient | 5 = poor | | P(ass) = passed a.m. test specifications(s) | F(ail) = failed a.m. test specifications(s) | N/A = not applicable | N/T = not tested | |
| * Legende: | 1 = sehr gut | 2 = gut | 3 = befriedigend | 4 = ausreichend | 5 = mangelhaft | | | | | | | | | | | | | | | | | | | | | | | |
| | P(ass) = entspricht o.g. Prüfgrundlage(n) | F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | N/A = nicht anwendbar | N/T = nicht getestet | | | | | | | | | | | | | | | | | | | | | | | | |
| Legend: | 1 = very good | 2 = good | 3 = satisfactory | 4 = sufficient | 5 = poor | | | | | | | | | | | | | | | | | | | | | | | |
| | P(ass) = passed a.m. test specifications(s) | F(ail) = failed a.m. test specifications(s) | N/A = not applicable | N/T = not tested | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 DEACTIVATION OF THE TRANSMISSION

RESULT: Pass

5.1.3 20dB BANDWIDTH

RESULT: Pass

5.1.4 FIELD STRENGTH OF FUNDAMENTAL AND UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Registration No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

| Unwanted Emission Testing (TS9975) | | | | |
|--|---------------------|-------------------|-------------------|-------------------|
| Equipment | Manufacturer | Model | Serial No. | Cal. until |
| EMI Test Receiver | R&S | ESR 7 | 102021 | 19.08.2020 |
| Signal Analyzer | R&S | FSV 40 | 101439 | 21.08.2020 |
| System Controller Interface | R&S | SCI-100 | S10010038 | N/A |
| Filterbank | R&S | Wlan | 100759 | 21.08.2020 |
| OSP | R&S | OSP 120 | 102040 | N/A |
| Pre-amplifier | R&S | SCU08F1 | 08320031 | 20.08.2020 |
| Amplifier | R&S | SCU-18F | 180070 | 20.08.2020 |
| Amplifier | R&S | SCU40A | 100475 | 20.09.2020 |
| Trilog Broadband Antenna (30 MHz - 7 GHz) | Schwarzbeck | VULB 9162 | 193 | 02.09.2020 |
| Double-Ridged Antenna (1 -18 GHz) | ETS-LINDGREN | 3117 | 00218717 | 02.09.2020 |
| Wideband Ridged Horn Antenna (18-40 GHz) | Steatite | QMS-00880 | 19067 | 02.09.2020 |
| Active Loop Antenna | Schwarzbeck | FMZB 1513 | 302 | 01.09.2020 |
| Wideband Ridged Horn Antenna (12-18 GHz) | Steatite | QMS-00208 | 18313 | 02.09.2021 |
| Test software | R&S | EMC32 (V10.60.10) | N/A | N/A |
| Control PC | Dell | OptiPlex 7050 | 36NV9P2 | N/A |
| 3m Semi-Anechoic Chamber | Albatross | SAC-3m | APC17151-SAC | 06.07.2021 |

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

| Item | | Extended Uncertainty |
|-----------------------------------|-------------------------------|----------------------|
| Radiated Emission (30-1000MHz) | Field strength (dB μ V/m) | \pm 5.16 dB |
| Radiated Emission (above 1000MHz) | Field strength (dB μ V/m) | \pm 2.22 dB |
| Radio Spectrum | | \pm 4.51 dB |

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Remote Controller for vehicular use.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

| General Information of EUT | Value |
|--|-----------------------|
| Kind of Equipment | Remote Controller |
| Type Designation | D23 |
| Trademark | NIU |
| FCC ID | 2AQ95-NIUD23-433 |
| Extreme Temperature Range | -40 - 85°C |
| Operating Voltage | 2.4V-3.6V |
| Testing Voltage | Fully charged battery |
| Technical Specification of 2.4G | |
| Frequency Range | 433.92 MHz |
| Type of Modulation | OOK |
| Channel Number | 1 channel |
| Antenna Type | Integral Antenna |
| Antenna Gain | -1 dBi |

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Transmitting mode
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form

- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5&6. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model D23 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model | S/N | Rating |
|-------------|--------------|-------|-----|--------|
| - | - | - | - | - |

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

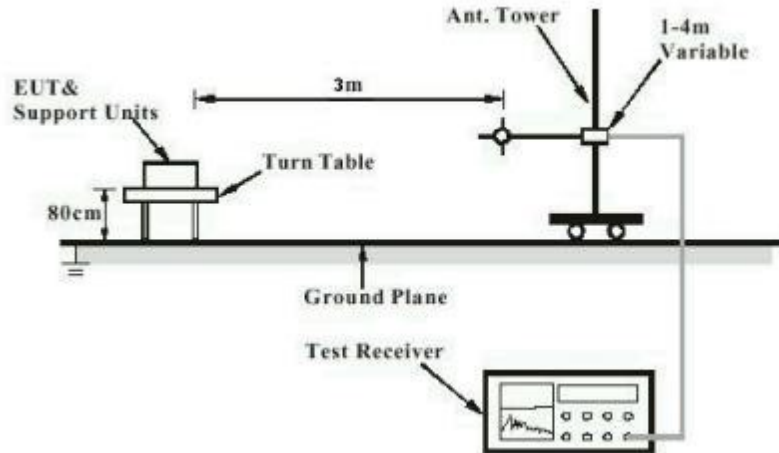


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

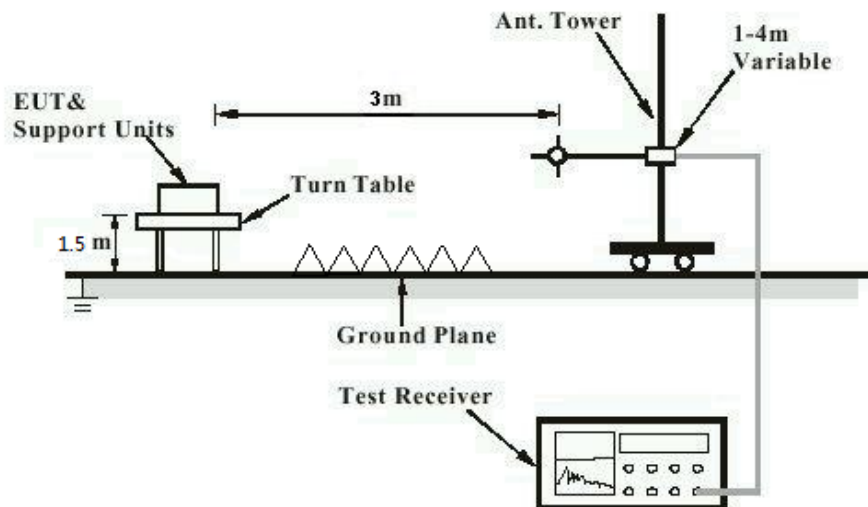
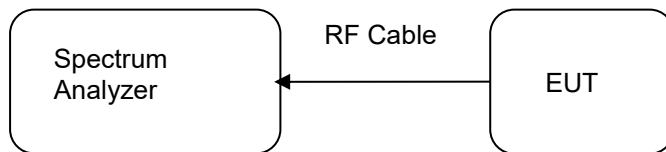


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -1 dBi, permanent attachment and no consideration of replacement. Therefore, the EUT is considered sufficiently to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Deactivation of the Transmission

RESULT:**Pass****Test Specification**

| | |
|-------------------|--|
| Test standard | : FCC Part 15.31(a)(1) RSS-210 Issue 9 Table B |
| Basic standard | : ANSI C63.10: 2013 |
| Limit | : A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of after released. |
| Kind of test site | : Shielded Room |

Test Setup

| | |
|----------------------|-------------------------|
| Date of testing | : 18.07.2020 |
| Input voltage | : Fully charged battery |
| Operation mode | : A |
| Ambient temperature | : 25 °C |
| Relative humidity | : 56 % |
| Atmospheric pressure | : 101 kPa |

For the measurement records, refer to the appendix A.

5.1.3 20dB Bandwidth

RESULT:**Pass****Test Specification**

| | | |
|-------------------|---|---------------------------------------|
| Test standard | : | FCC Part 15.231(c) RSS-Gen Issue 5 |
| Basic standard | : | ANSI C63.10: 2013 |
| Limit | : | FCC Part 15.231(c) |
| Kind of test site | : | Shielded Room |

Test Setup

| | | |
|----------------------|---|-----------------------|
| Date of testing | : | 23.07.2020 |
| Input voltage | : | Fully charged battery |
| Operation mode | : | A |
| Ambient temperature | : | 25 °C |
| Relative humidity | : | 56 % |
| Atmospheric pressure | : | 101 kPa |

For the measurement records, refer to the appendix A.

5.1.4 Field strength of fundamental and Unwanted Emissions in the Spurious Domain

RESULT:**Pass****Test Specification**

| | |
|-------------------|--|
| Test standard | FCC Part 15.231(b) (1)(2)(3) FCC Part 15.205 FCC Part 15.209 RSS-Gen Issue 5 RSS-210 Issue 9 |
| Basic standard | ANSI C63.10: 2013 |
| Limits | FCC Part 15.231(b) |
| Kind of test site | 3m Semi-anechoic Chamber |

Test Setup

| | |
|----------------------|-------------------------|
| Date of testing | 07.07.2020 – 22.07.2020 |
| Input voltage | Fully charged battery |
| Operation mode | A |
| Ambient temperature | Refer to test result |
| Relative humidity | Refer to test result |
| Atmospheric pressure | 101 kPa |

For the measurement records, refer to the appendix A.

6 List of Tables

| | |
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Appendix A

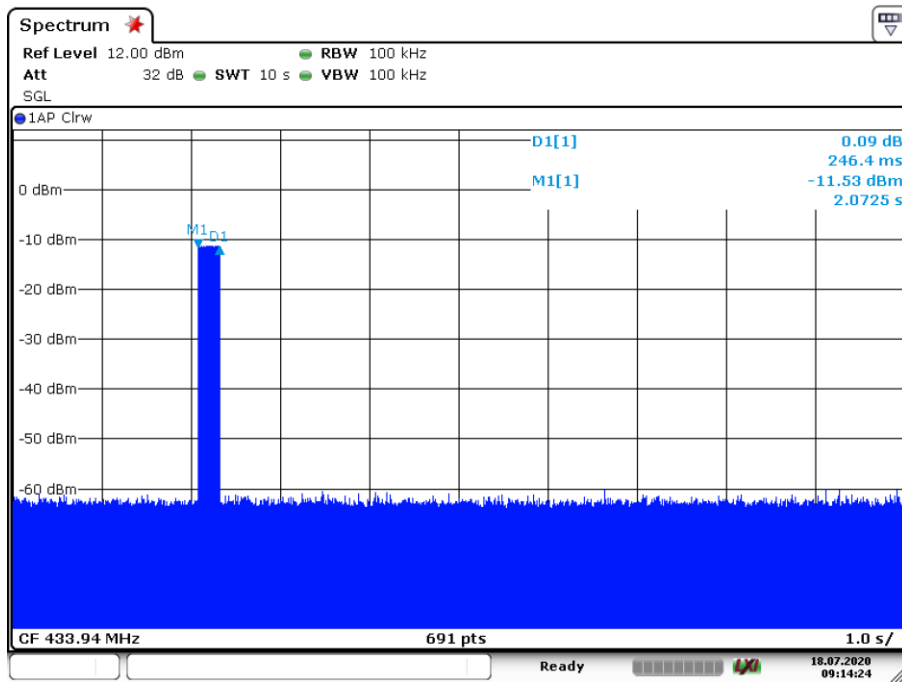
Test Results

| | |
|--|----------|
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APPENDIX B.1: TEST RESULTS OF DEACTIVATION OF THE TRANSMISSION

Test Results

| Operation Mode | Duration Time (S) | Limit (S) | Result |
|----------------|-------------------|-----------|--------|
| A | 0.246 | 5 | Pass |

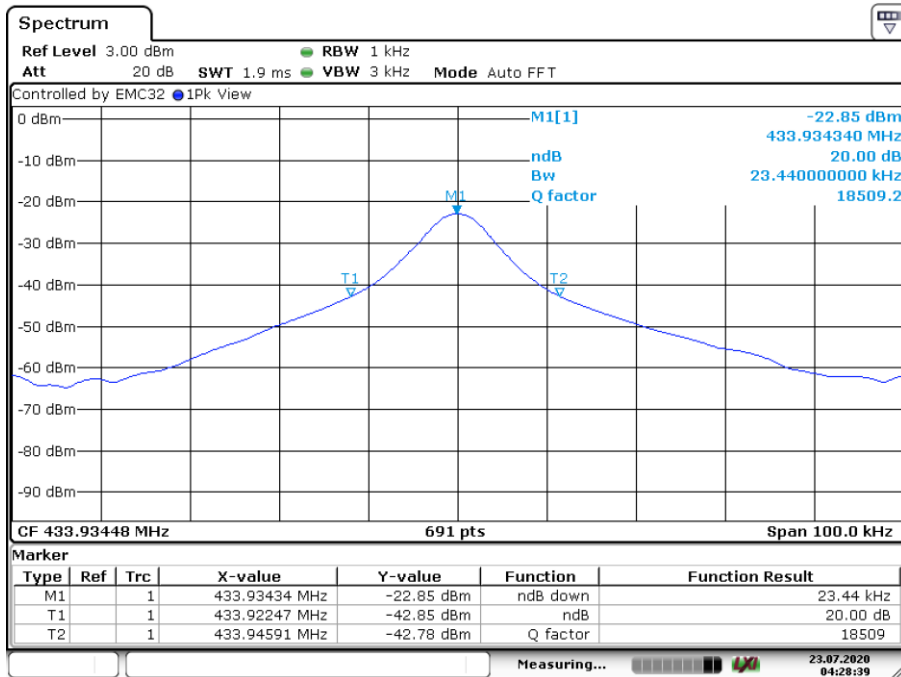


Date: 18.JUL.2020 09:14:23

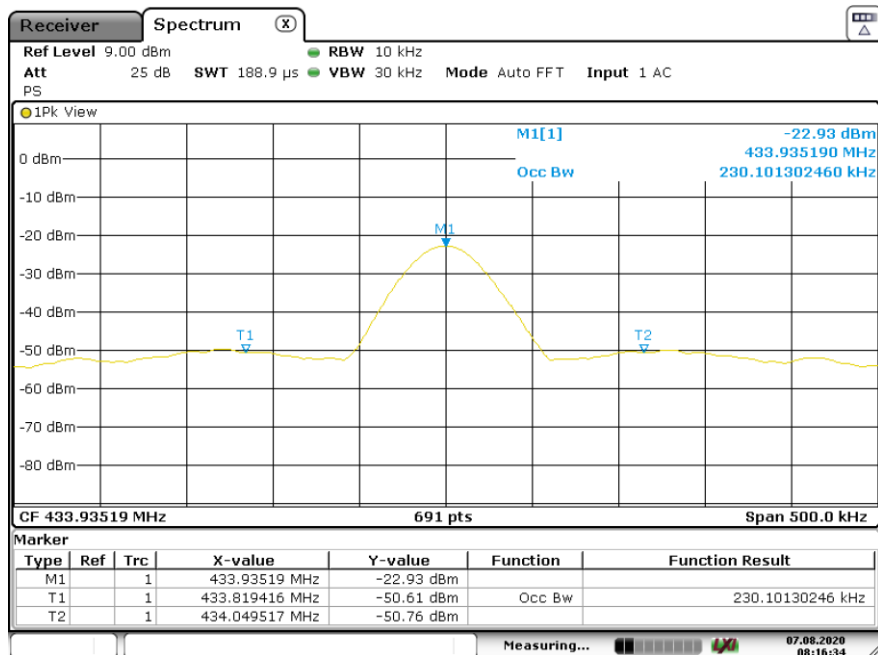
APPENDIX B.2: TEST RESULTS OF 20dB EMISSION BANDWIDTH

Test Results

| Operation Frequency (MHz) | 20dB Emission Bandwidth (MHz) | Limit (MHz) | Result |
|---------------------------|-------------------------------|-------------|--------|
| 433.92 | 0.023 | 1.085 | Pass |



Date: 23.JUL.2020 04:28:40



Date: 7.AUG.2020 08:16:35

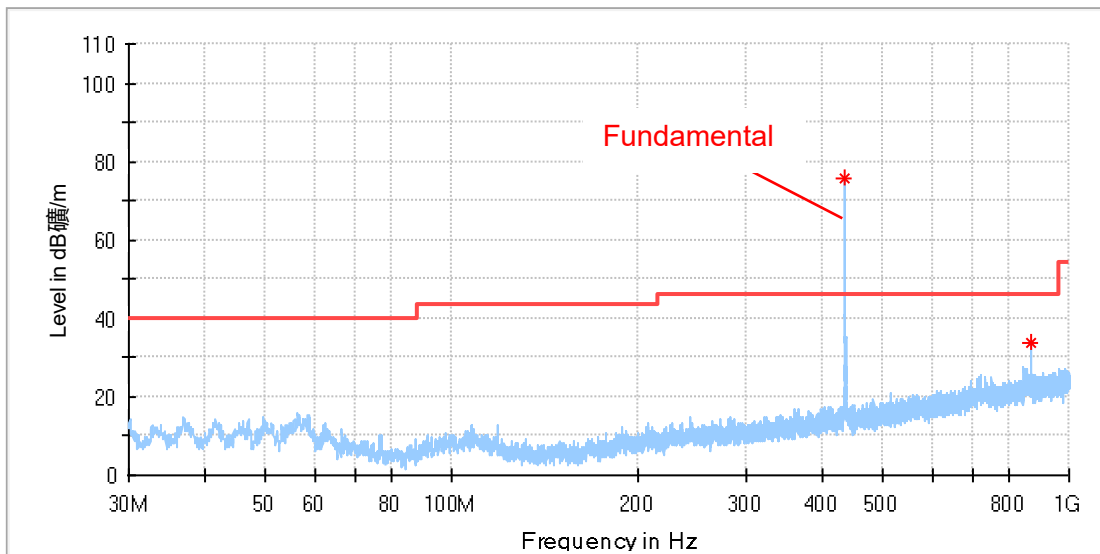
APPENDIX B.3: TEST RESULTS OF FIELD STRENGTH OF FUNDAMENTAL AND UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

B.3.1 Below 1GHz

Test Report

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | Remote Controller |
| Model: | D23 |
| Test Mode: | TX_High |
| Test Voltage:: | Full Battery |
| Remark: | Temp 23 Humi:42% |
| Test Standard: | FCC 15.231 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |



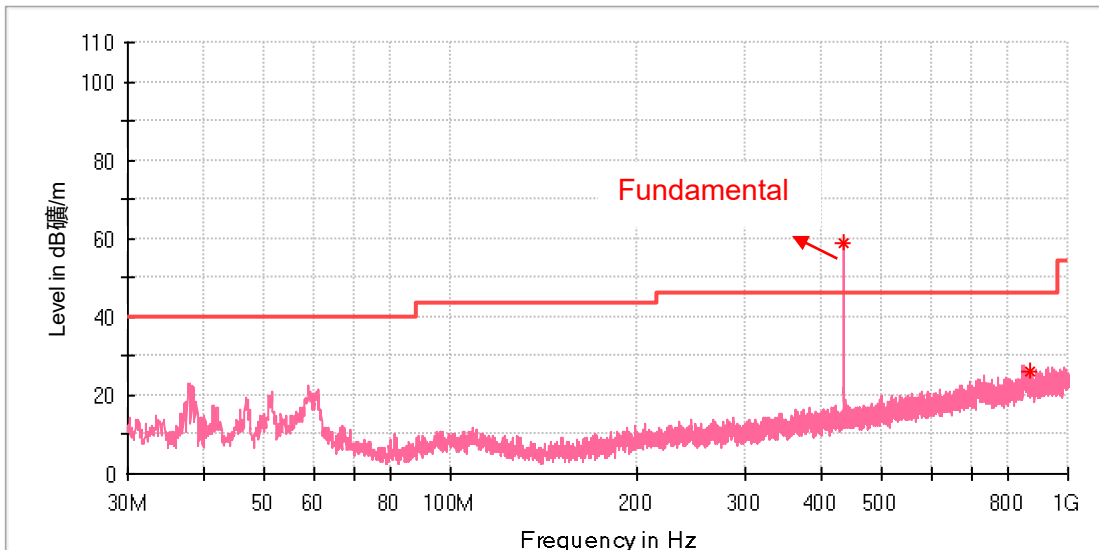
Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| *433.908000 | 75.86 | --- | 80.8 | 4.94 | 100.0 | H | 124.0 | -13.5 |
| 867.886000 | 33.56 | --- | 46.00 | 12.44 | 100.0 | H | 271.0 | -5.7 |

Test Report

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | Remote Controller |
| Model: | D23 |
| Test Mode: | TX_High |
| Test Voltage:: | Full Battery |
| Remark: | Temp 23 Humi:42% |
| Test Standard: | FCC 15.231 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |



Critical_Freqs

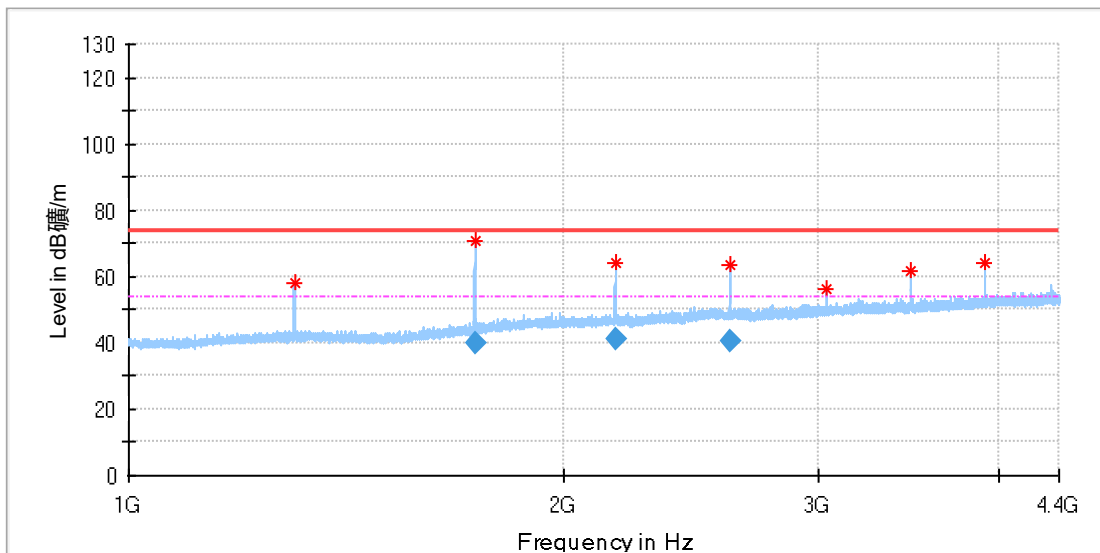
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|--------|-----|---------------|--------------|
| *433.908000 | 58.60 | --- | 80.8 | 22.12 | 100.0 | V | 34.0 | -13.5 |
| 867.837500 | 26.14 | --- | 46.00 | 19.86 | 100.0 | V | 63.0 | -5.7 |

B.3.2 Above 1GHz

Test Report

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | Remote Controller |
| Model: | D23 |
| Test Mode: | TX_High |
| Test Voltage:: | Full Battery |
| Remark: | Temp 24 Humi:45% |
| Test Standard: | FCC 15.231 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |



Peak Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1301.537500 | 57.85 | 74.00 | 16.15 | 100.0 | H | 109.0 | 2.6 |
| 1735.462500 | 70.60 | 74.00 | 3.40 | 100.0 | H | 290.0 | 4.6 |
| 2170.237500 | 64.01 | 74.00 | 9.99 | 100.0 | H | 126.0 | 7.0 |
| 2603.525000 | 63.72 | 74.00 | 10.29 | 100.0 | H | 241.0 | 8.4 |
| 3037.875000 | 56.44 | 74.00 | 17.56 | 100.0 | H | 61.0 | 9.5 |
| 3471.587500 | 61.70 | 74.00 | 12.30 | 100.0 | H | 84.0 | 10.0 |
| 3905.725000 | 63.89 | 74.00 | 10.11 | 100.0 | H | 228.0 | 11.6 |

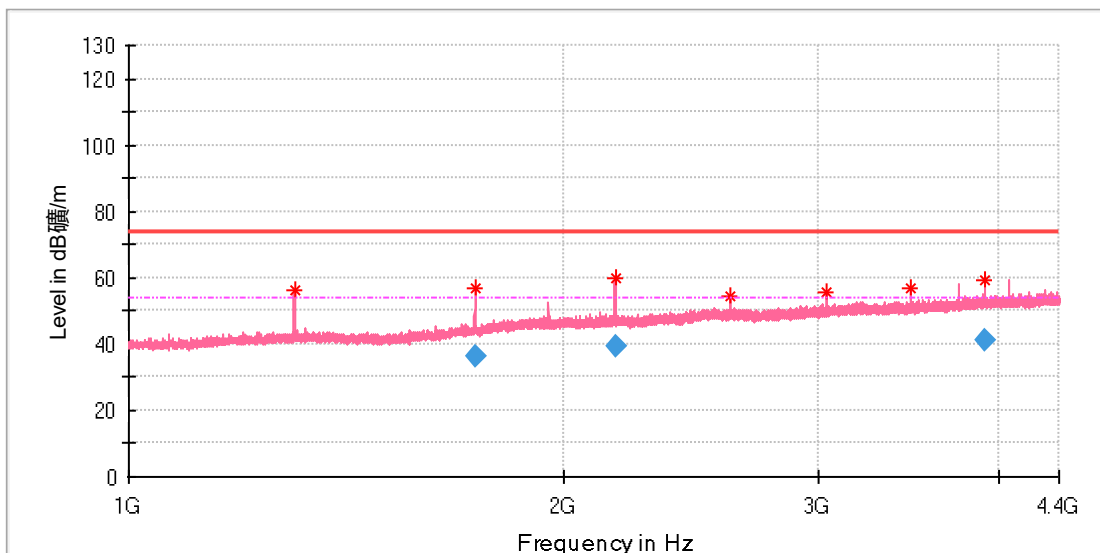
Average Result

| Frequency (MHz) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1736.040625 | 39.86 | 54.00 | 14.14 | 100.0 | H | 282.0 | 4.6 |
| 2169.803750 | 41.00 | 54.00 | 13.00 | 100.0 | H | 133.0 | 7.0 |
| 2603.766875 | 40.79 | 54.00 | 13.21 | 100.0 | H | 232.0 | 8.4 |

Test Report

EUT Information

| | |
|----------------|-------------------|
| EUT Name: | Remote Controller |
| Model: | D23 |
| Test Mode: | TX_High |
| Test Voltage:: | Full Battery |
| Remark: | Temp 24 Humi:45% |
| Test Standard: | FCC 15.231 |
| Tested By: | Kei Zhang |
| Reviewed By: | Terry Yin |



Peak Result

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|---------------|-------------|-------------|-----|---------------|--------------|
| 1301.750000 | 56.06 | 74.00 | 17.94 | 100.0 | V | 217.0 | 2.6 |
| 1735.675000 | 57.07 | 74.00 | 16.93 | 100.0 | V | 186.0 | 4.6 |
| 2169.600000 | 60.00 | 74.00 | 14.00 | 100.0 | V | 308.0 | 7.0 |
| 2603.525000 | 54.39 | 74.00 | 19.61 | 100.0 | V | 206.0 | 8.4 |
| 3037.662500 | 55.40 | 74.00 | 18.60 | 100.0 | V | 119.0 | 9.5 |
| 3471.375000 | 57.07 | 74.00 | 16.93 | 100.0 | V | 158.0 | 10.0 |
| 3905.087500 | 59.55 | 74.00 | 14.45 | 100.0 | V | 247.0 | 11.6 |

Average Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1735.839375 | 36.52 | 54.00 | 17.48 | 134.0 | V | 180.0 | 4.6 |
| 2169.780625 | 39.16 | 54.00 | 14.84 | 100.0 | V | 330.0 | 7.0 |
| 3905.528750 | 41.34 | 54.00 | 12.66 | 100.0 | V | 205.0 | 11.6 |

Remark: the limit for field strength of fundamental is 100.8dBuV/m (PK), 80.8dBuV/m (AV).