



TEST REPORT

No. I21N03262-NFC

for

Realme Chongqing Mobile Telecommunications Corp., Ltd.

Mobile Phone

Model Name: RMX3393

with

Hardware Version: 11

Software Version: ColorOS 12.1

FCC ID: 2AUYFRMX3393

Issued Date: 2021-11-29

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

Test Laboratory:

SAICT, Shenzhen Academy of Information and Communications Technology

Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China 518000.

Tel:+86(0)755-33322000, Fax:+86(0)755-33322001

Email: yewu@saict.ac.cn. www.saict.ac.cn

©Copyright. All rights reserved by SAICT.

CONTENTS

| | |
|--|-----------|
| 1. SUMMARY OF TEST REPORT..... | 3 |
| 1.1. TEST ITEMS..... | 3 |
| 1.2. TEST STANDARDS | 3 |
| 1.3. TEST RESULT | 3 |
| 1.4. TESTING LOCATION | 3 |
| 1.5. PROJECT DATA | 3 |
| 1.6. SIGNATURE | 3 |
| 2. CLIENT INFORMATION..... | 4 |
| 2.1. APPLICANT INFORMATION | 4 |
| 2.2. MANUFACTURER INFORMATION | 4 |
| 3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) | 5 |
| 3.1. ABOUT EUT | 5 |
| 3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST | 5 |
| 3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST | 5 |
| 3.4. GENERAL DESCRIPTION..... | 6 |
| 3.5. EUT SET-UPS | 6 |
| 4. REFERENCE DOCUMENTS..... | 7 |
| 4.1. DOCUMENTS SUPPLIED BY APPLICANT | 7 |
| 4.2. REFERENCE DOCUMENTS FOR TESTING..... | 7 |
| 5. TEST RESULTS | 8 |
| 5.1. TESTING ENVIRONMENT..... | 8 |
| 5.2. TEST RESULTS | 8 |
| 5.3. STATEMENTS..... | 8 |
| 6. TEST EQUIPMENTS UTILIZED..... | 9 |
| 7. LABORATORY ENVIRONMENT..... | 10 |
| ANNEX A: MEASUREMENT RESULTS..... | 11 |
| A.1. ELECTRIC FIELD STRENGTH OF FUNDAMENTAL AND OUTSIDE THE ALLOCATED BANDS..... | 11 |
| A.2. ELECTRIC FIELD RADIATED EMISSIONS (<30MHz) | 13 |
| A.3. ELECTRIC FIELD RADIATED EMISSIONS (≥ 30 MHz)..... | 15 |
| A.4. FREQUENCY TOLERANCE..... | 17 |
| A.5. 20dB BANDWIDTH..... | 19 |
| A.6. CONDUCTED EMISSION | 21 |

1. Summary of Test Report

1.1. Test Items

| | |
|---------------------|--|
| Description | Mobile Phone |
| Model Name | RMX3393 |
| Applicant's name | Realme Chongqing Mobile Telecommunications Corp., Ltd. |
| Manufacturer's Name | Realme Chongqing Mobile Telecommunications Corp., Ltd. |

1.2. Test Standards

FCC CFR 47, Part 15, Subpart C 2019

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

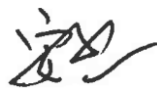
1.5. Project data

Testing Start Date: 2021-11-10
Testing End Date: 2021-11-22

1.6. Signature



Lin Zechuang
(Prepared this test report)



An Ran
(Reviewed this test report)



Zhang Bojun
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China.
Contact: Yang LiangPing
E-Mail: ylp@realme.net
Telephone: (86)13798864426
Fax: /

2.2. Manufacturer Information

Company Name: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China.
Contact: Yang LiangPing
E-Mail: ylp@realme.net
Telephone: (86)13798864426
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

| | |
|------------------------------|---------------------------------------|
| Description | Mobile Phone |
| Model Name | RMX3393 |
| Frequency | 13.56MHz |
| Antenna type | FPC+ferrite antenna |
| Extreme Temperature | 0°C/+35°C |
| Operation Voltage | 3.60VDC to 4.45VDC (nominal: 3.87VDC) |
| Power source | Battery |
| FCC ID | 2AUYFRMX3393 |
| Condition of EUT as received | No abnormality in appearance |

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

| EUT ID* | IMEI | HW Version | SW Version | Receive Date |
|---------|-----------------|------------|--------------|--------------|
| UT02aa | 868912050021697 | 11 | ColorOS 12.1 | 2021-10-21 |
| | 868912050021689 | | | |
| UT04aa | 868912050020590 | 11 | ColorOS 12.1 | 2021-10-25 |
| | 868912050020582 | | | |
| UT06aa | 868912050020657 | 11 | ColorOS 12.1 | 2021-10-25 |
| | 868912050020640 | | | |

*EUT ID: is used to identify the test sample in the lab internally.

UT02aa is used for conduction test, UT04aa is used for radiation test, and UT06aa is used for Conducted Emission test.

3.3. Internal Identification of AE used during the test

| AE ID* | Description | SN |
|--------|--------------|----|
| AE1 | Power Supply | / |
| AE2 | NFC Card | / |
| AE3 | Battery | / |
| AE4 | Charger | / |
| AE5 | USB Cable | / |
| AE6 | Headset | / |

AE1/AE2

/

AE3

| | |
|--------------|------------------------------|
| Model | BLP837 |
| Manufacturer | Sunwoda Electronic Co., Ltd. |
| Capacity | 4400mAh |



| | |
|-----------------|--|
| Nominal Voltage | 3.87V |
| AE4 | |
| Model | VCA7JAUH |
| Manufacturer | Huizhou Golden Lake Industrial Co., Ltd. |
| Specification | American Standard Charger |
| AE5 | |
| Model | DL129 |
| Manufacturer | / |
| AE6 | |
| Model | MH156 |
| Manufacturer | / |

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment under Test (EUT) is a model of Mobile Phone with FPC+ferrite antenna and battery.

It consists of normal options: Lithium Battery, Charger, USB Cable and Headset.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

3.5. EUT Set-ups

| EUT Set-up No. | Combination of EUT and AE | Remarks |
|----------------|---------------------------|-----------------|
| Set. NFC01 | EUT+AE1+AE2 | NFC RF, TX test |
| Set. NFC02 | EUT+AE1 | NFC RF, RX test |

CE_test.apk is installed in the EUT which helps to control the NFC signal transmitting.

The Transmit State of NFC: the NFC function is on. The EUT will transmit the NFC data and command continuously during the test.

The Transmit State without modulation: The EUT will transmit the CW signal at the operating frequency.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference | Title | Version |
|------------------|--|----------------|
| CFR 47 Part 15 | FCC CFR 47,Part 15,Subpart C | 2019 |
| ANSI C63.10 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices | 2013 |
| ANSI C63.4 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz. | 2014 |

5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

5.2. Test Results

| No | Test Cases | Clause in Regulation | Section in This Report | Verdict |
|--|--|--|------------------------|----------|
| 1 | Electric Field Strength of Fundamental Emissions | CFR 47 § 15.225(a) | A.1 | P |
| 2 | Electric Field Strength of Outside the Allocated Bands | CFR 47 § 15.225(b) CFR 47 § 15.225(c) | | P |
| 3 | Electric Field Radiated Emissions | CFR 47 § 15.209 | A.2 | P |
| | | CFR 47 § 15.225(d) | A.3 | P |
| 4 | Frequency Tolerance | CFR 47 § 15.225(e) | A.4 | P |
| 5 | 20dB Bandwidth | CFR 47 § 15.215(c) | A.5 | P |
| 6 | Conducted Emissions | CFR 47 § 15.207 | A.6 | P |
| The measurement is carried out according to ANSI C63.10 and ANSI C63.4. See ANNEX A for details. | | | | |

5.3. Statements

The test cases listed in Section 5.2 of this report for the EUT specified in Section 3 were performed by SAICT according to the reference documents in Section 4.

The EUT meets all applicable requirements of the regulations and standards in Section 4.2.

This report only deals with the NFC function among the features described in section 3.

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.

6. Test Equipments Utilized

Conducted test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Due date | Calibration Period |
|-----|------------------------|----------|-----------------|-----------------|----------------------|--------------------|
| 1 | Vector Signal Analyzer | FSV40 | 100903 | Rohde & Schwarz | 2021-12-30 | 1 year |
| 2 | DC Power Supply | ZUP60-14 | 6MY-847Z13-0001 | TDK-Lambda | 2022-02-25 | 1 year |
| 3 | Test Receiver | ESCI | 100702 | Rohde & Schwarz | 2022-01-13 | 1 year |
| 4 | LISN | ENV216 | 102067 | Rohde & Schwarz | 2022-07-15 | 1 year |

Climate chamber

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Due date | Calibration Period |
|-----|-----------------|--------|---------------|--------------|----------------------|--------------------|
| 1 | Climate chamber | SU-242 | 93008165 | ESPEC | 2022-03-14 | 1 year |

Radiated emission test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Due date | Calibration Period |
|-----|---------------|-----------|---------------|-----------------|----------------------|--------------------|
| 1 | Test Receiver | ESR7 | 101676 | Rohde & Schwarz | 2022-11-24 | 1 year |
| 2 | BiLog Antenna | 3142E | 0224831 | ETS-Lindgren | 2024-05-27 | 3 years |
| 3 | Loop Antenna | HLA6120 | 35779 | TESEQ | 2022-04-25 | 3 years |
| 4 | Chamber | FACT3-2.0 | 1285 | ETS-Lindgren | 2023-05-29 | 2 years |

Test software

| No. | Equipment | Manufacturer | Version |
|-----|----------------|-----------------|----------|
| 1 | RF Test System | Tonscend | 2.6 |
| 2 | EMC32 | Rohde & Schwarz | 10.50.40 |

7. Laboratory Environment

Semi-anechoic chamber

| | |
|-----------------------------------|---|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 20 %, Max. = 75 % |
| Shielding effectiveness | 0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB |
| Electrical insulation | > 2M Ω |
| Ground system resistance | < 4 Ω |
| Normalised site attenuation (NSA) | < ± 4 dB, 3 m distance, from 30 to 1000 MHz |

Shielded room

| | |
|--------------------------|--|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 20 %, Max. = 75 % |
| Shielding effectiveness | 0.014MHz-1MHz> 60 dB; 1MHz-1000MHz>90 dB |
| Electrical insulation | > 2M Ω |
| Ground system resistance | < 4 Ω |

Fully-anechoic chamber

| | |
|------------------------------------|---|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 20 %, Max. = 75 % |
| Shielding effectiveness | 0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB |
| Electrical insulation | > 2M Ω |
| Ground system resistance | < 4 Ω |
| Voltage Standing Wave Ratio (VSWR) | ≤ 6 dB, from 1 to 18 GHz, 3 m distance |
| Uniformity of field strength | Between 0 and 6 dB, from 80 to 6000 MHz |

ANNEX A: MEASUREMENT RESULTS

A.1. Electric Field Strength of Fundamental and Outside the Allocated bands

A.1.1. Reference

See CFR 47 § 15.225

A.1.2. Measurement Methods

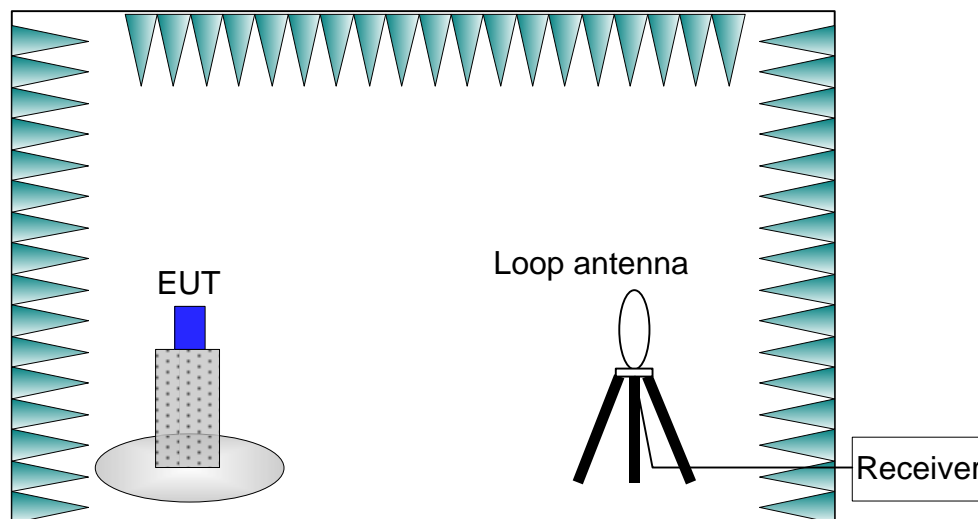
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

| Frequency of Emission (MHz) | RBW/VBW |
|-----------------------------|-----------|
| 12.56-14.56 | 10/30 kHz |

The E-field measured at 3m is calculated as:

$$\text{E-field (dB}\mu\text{V/m)} = \text{Rx (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{AF@3m (dB/m)}$$



A.1.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 ~ 25°C.

A.1.4. Limits

| Frequency Range (MHz) | E-field Strength Limit @ 30 m ($\mu\text{V/m}$) | E-field Strength Limit @ 3 m ($\text{dB}\mu\text{V/m}$) |
|--------------------------------------|---|---|
| 13.560 \pm 0.007 | +15,848 | 124 |
| 13.410 to 13.553 13.567 to 13.710 | +334 | 90 |
| 13.110 to 13.410 13.710 to 14.010 | +106 | 81 |

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:
Extrapolation (dB) = 40 * \log_{10} (Measurement Distance / Specification Distance)

A.1.5. Measurement Results

Measurement results of normal conditions see Figure A-1 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

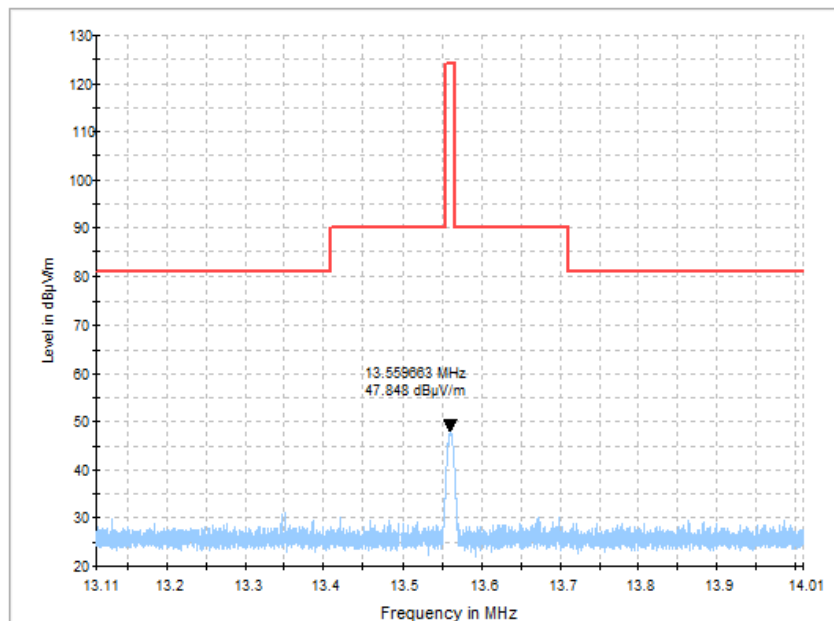


Figure A-1 Electric Field Strength

A.1.6. Measurement Uncertainty

Measurement uncertainty: $U = 1.74$ dB, $k=2$.

A.2. Electric Field Radiated Emissions (<30MHz)

A.2.1. Reference

See CFR 47 § 15.209

See CFR 47 § 15.225(d)

A.2.2. Measurement Methods

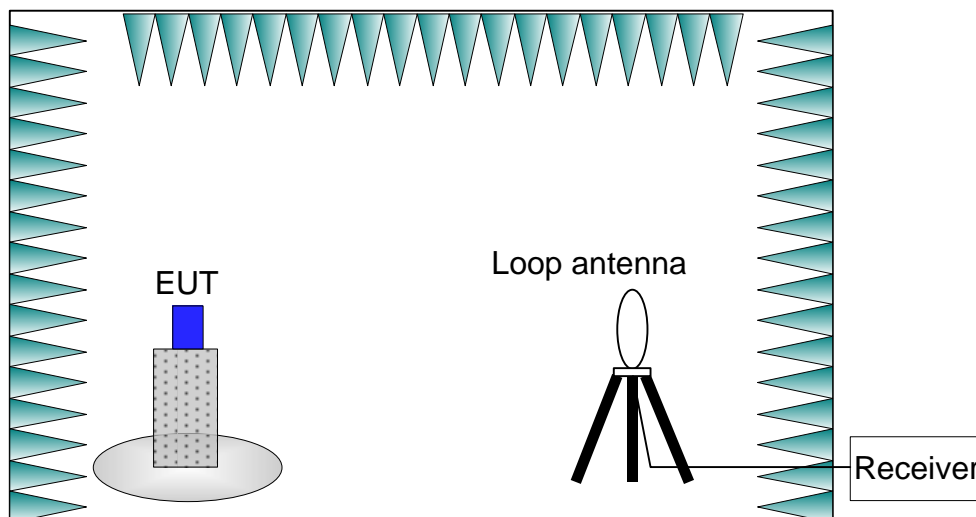
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

| Frequency of Emission (MHz) | RBW/VBW |
|-----------------------------|------------|
| 0.009-0.15 | 100/300 Hz |
| 0.15-30 | 10/30 kHz |

The E-field measured at 3m is calculated as:

$$\text{E-field (dB}\mu\text{V/m)} = \text{Rx (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{AF@3m (dB/m)}$$



A.2.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 ~ 25°C.

A.2.4. Limits

| Frequency Range (MHz) | E-field Strength Limit @ 30m (mV/m) | E-field Strength Limit @ 3m (dBμV/m) |
|-----------------------|-------------------------------------|--------------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 129-94 |
| 0.490-1.705 | 24000/F(kHz) | 74-63 |
| 1.705-30 | 30 | 70 |

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:
Extrapolation (dB) = 40 * log₁₀(Measurement Distance / Specification Distance)

A.2.5. Measurement Results

Measurement results of normal conditions see Figure A-2 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

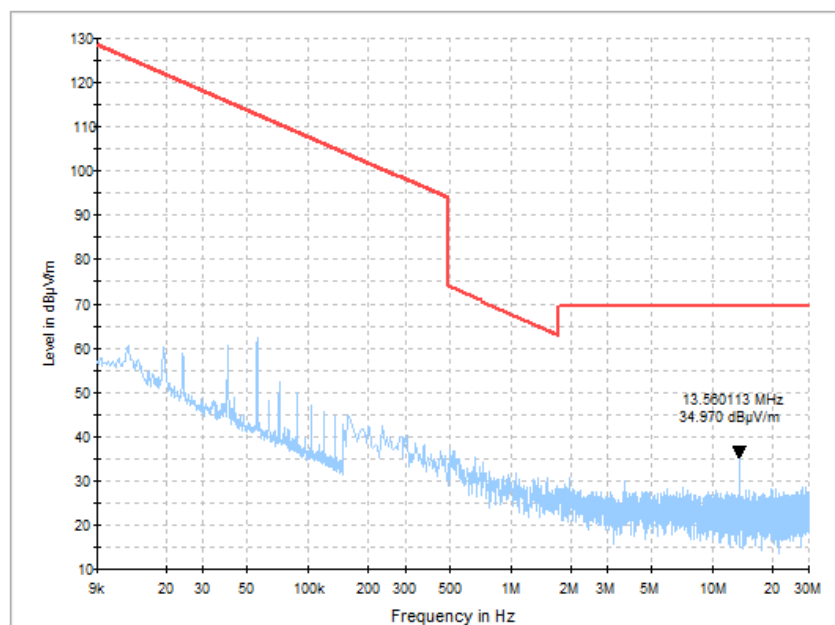


Figure A-2 Transmit State (9k-30M)

A.2.6. Measurement Uncertainty

Measurement uncertainty: $U = 1.74$ dB, $k=2$.

A.3. Electric Field Radiated Emissions ($\geq 30\text{MHz}$)

A.3.1. Reference

See CFR 47 § 15.209

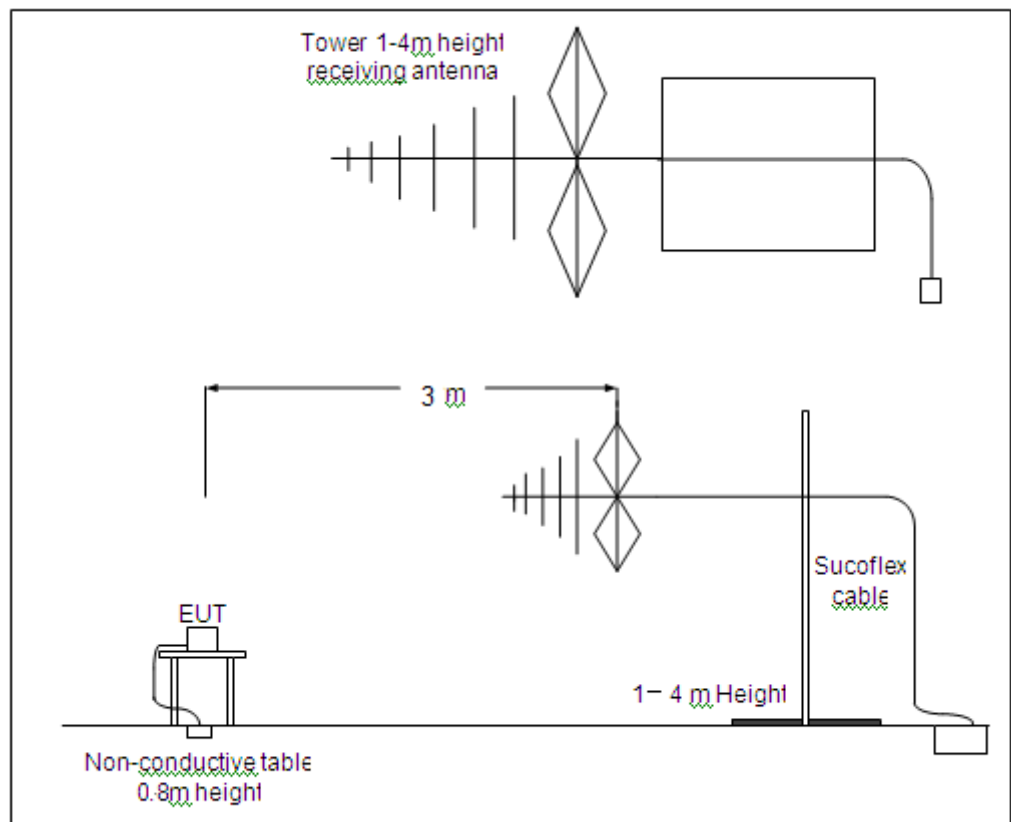
See CFR 47 § 15.225(d)

A.3.2. Measurement Methods

The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The receiving antennas connected to a measurement receiver comply with the standard requirements. In order to search for maximum field strength emitted from the EUT, the receiving antenna can be moved between the height of 1.0 m to 4.0 m. Detected E-field was maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna positions for both vertical and horizontal antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

| Frequency of Emission (MHz) | RBW/VBW |
|-----------------------------|---------|
| 30-1000 | 120kHz |



A.3.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

EUT had been connected to a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 ~ 25°C.

A.3.4. Limits

| Frequency Range (MHz) | E-field Strength Limit @ 3m (mV/m) | E-field Strength Limit @ 3m (dBμV/m) | E-field Strength Limit @ 10m (dBμV/m) |
|-----------------------|------------------------------------|--------------------------------------|---------------------------------------|
| 30-88 | 100 | 40 | 30 |
| 88-216 | 150 | 43.5 | 33.5 |
| 216-960 | 200 | 46 | 36 |
| 960-1000 | 500 | 54 | 44 |

A.3.5. Measurement Results

Measurement results of normal conditions see Figure A-3 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

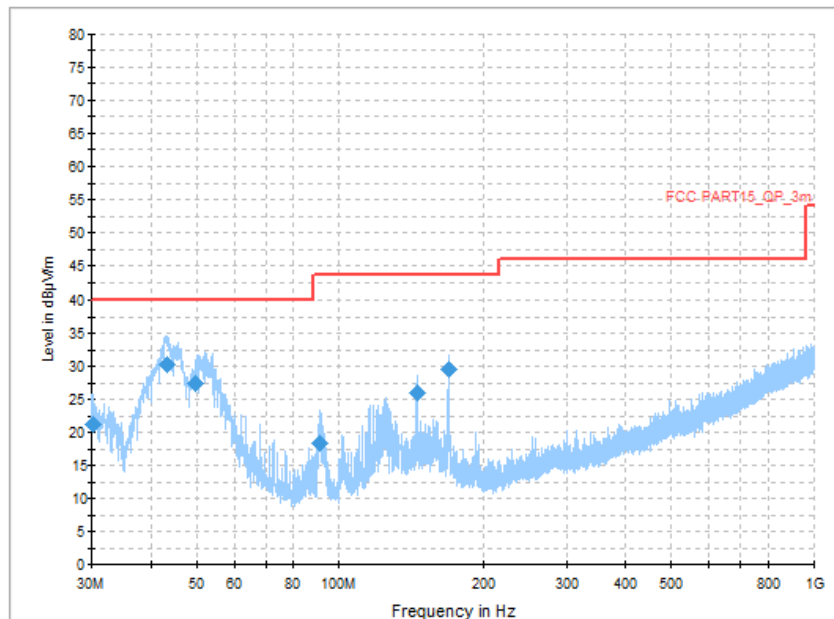


Figure A-3 Transmit State (30M-1G)

A.3.6. Measurement Uncertainty

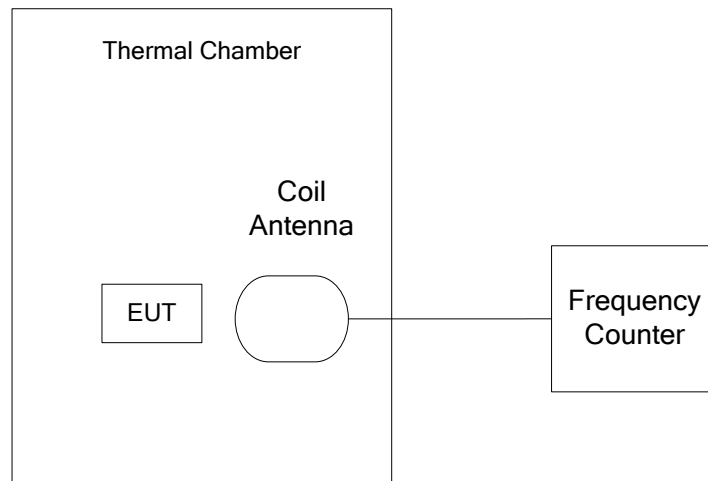
Measurement uncertainty: $U = 4.86$ dB, $k=2$

A.4. Frequency Tolerance

A.4.1. Reference

See CFR 47 § 15.225(e)

A.4.2. Measurement Methods



The transmitter output signal was picked up by coil antenna connected to the frequency counter. The center frequency was measured with 30Hz RBW and 1kHz span. During the test, the EUT was placed in a thermal chamber until thermal balance and lasting appropriate time.

A.4.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of without modulation (See 3.5).

EUT had been not connected to a travel adapter.

Operation Temperature: T min, T nom, and T max with V nom.

Operation Voltage: V min and V max with T nom.

A.4.4. Test Layouts

See A.4.2.

A.4.5. Limits

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

A.4.6. Measurement Results

Measurement results see Table A-1 for different test conditions.

Conclusions: PASS.

Table A-1: Frequency Stability VS Temperature and Voltage

| Temperature | Voltage | Frequency Error (MHz) | | | |
|-------------|---------|-----------------------|-------------|-------------|--------------|
| | | Startup | 2 Min Later | 5 Min Later | 10 Min Later |
| T min | V nom | 13.559711 | 13.559711 | 13.559710 | 13.559711 |
| T max | V nom | 13.559715 | 13.559714 | 13.559714 | 13.559714 |
| T nom | V nom | 13.559712 | 13.559711 | 13.559712 | 13.559712 |
| T nom | V min | 13.559711 | 13.559710 | 13.559711 | 13.559711 |
| T nom | V max | 13.559711 | 13.559711 | 13.559711 | 13.559712 |

| Temperature | Voltage | Frequency Error (%) | | | |
|-------------|---------|---------------------|-------------|-------------|--------------|
| | | Startup | 2 Min Later | 5 Min Later | 10 Min Later |
| T min | V nom | 0.002 | 0.002 | 0.002 | 0.002 |
| T max | V nom | 0.002 | 0.002 | 0.002 | 0.002 |
| T nom | V nom | 0.002 | 0.002 | 0.002 | 0.002 |
| T nom | V min | 0.002 | 0.002 | 0.002 | 0.002 |
| T nom | V max | 0.002 | 0.002 | 0.002 | 0.002 |

Note: T min= -20°C, T max= 50°C, T nom ≈20°C, V min=3.29V, V max=4.45V, V nom=3.87V

A.4.7. Measurement Uncertainty

Measurement uncertainty: $U = 77 \text{ Hz}$, $k=2$

A.5. 20dB Bandwidth

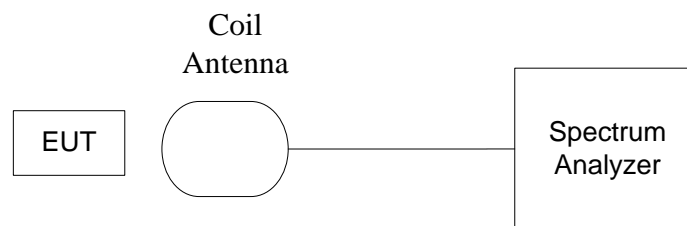
A.5.1. Reference

See CFR 47 § 15.215(c)

A.5.2. Measurement Methods

The transmitter output signal was picked up by coil antenna to the spectrum analyzer.

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer. The bandwidth of the center frequency was measured with 100Hz RBW, 300Hz VBW and 10kHz span.



A.5.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC and without modulation (See 3.5).

EUT had been not connected to a travel adapter.

During the measurements, the ambient temperature is in the range of 15 ~ 25°C.

A.5.4. Test Layouts

See A.5.2.

A.5.5. Limits

The 20dB bandwidth shall be less than 80% of the permitted frequency band. For 13.56 MHz NFC, the permitted frequency band is 10 kHz, so the limit is 11.2 kHz.

A.5.6. Measurement Results

Measurement results see Figure A-4.

Conclusions: PASS.

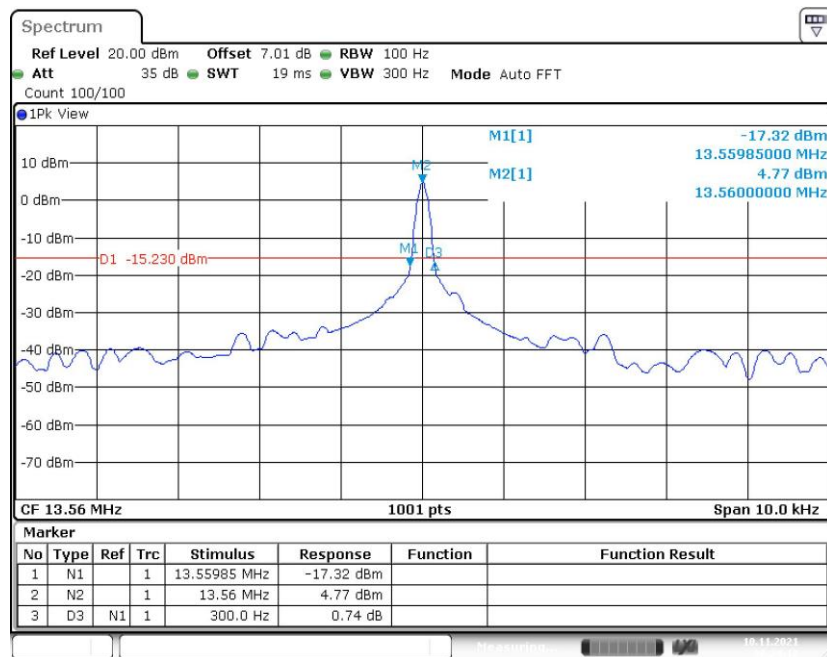


Figure A-4 20dB Bandwidth

A.5.7. Measurement Uncertainty

Measurement uncertainty: $U = 77 \text{ Hz}$, $k=2$

A.6. Conducted emission

A.6.1. Reference

See CFR 47 § 15.207

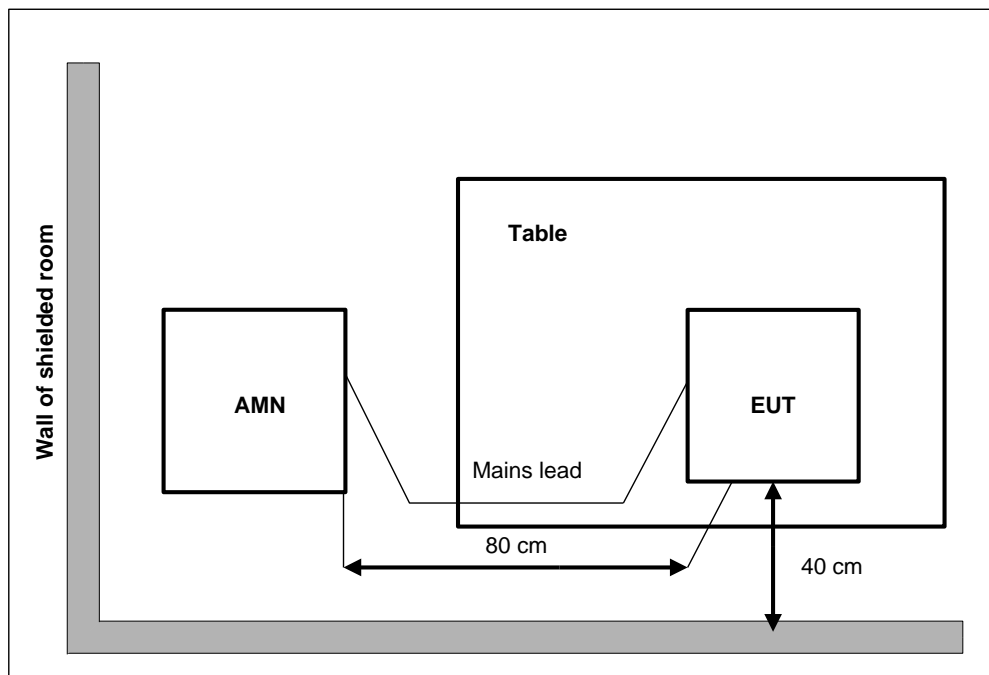
A.6.2. Measurement Methods

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

The measurement bandwidth is:

| Frequency of Emission (MHz) | RBW/VBW |
|-----------------------------|---------|
| 0.15-30 | 9kHz |



A.6.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature is in the range of 15 ~ 25°C.

A.6.4. Limits

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

A.6.5. Measurement Results

Measurement results see Figure A-5 and Figure A-6.

Conclusions: PASS.

Note: The measurement result at 13.56MHz is the fundamental emission of NFC signal.

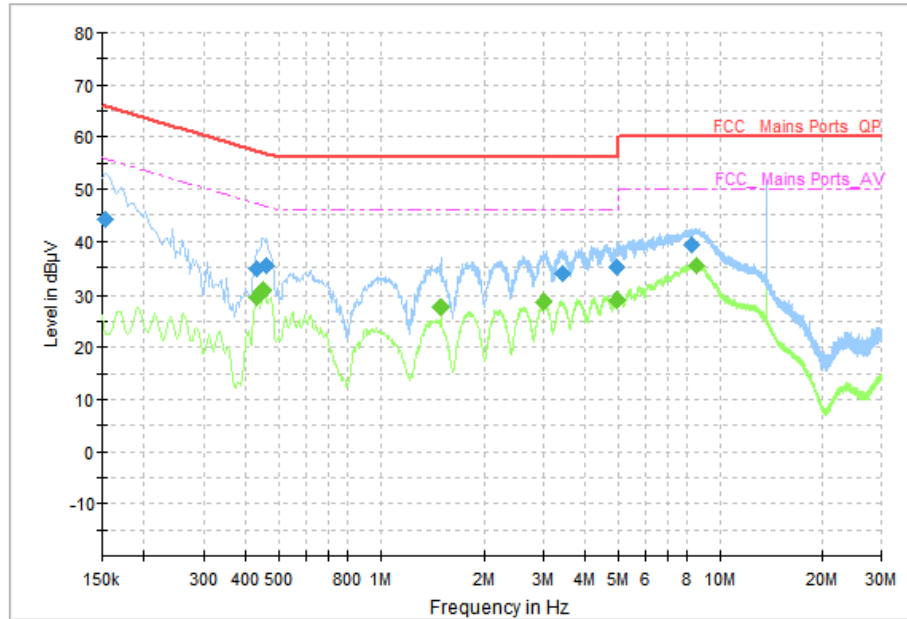


Figure A-5 Conducted Emission (Traffic)

Measurement Results: Quasi Peak

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|--------------|-------------|------|--------|------------|
| 0.154000 | 44.37 | 65.78 | 21.42 | N | ON | 10 |
| 0.430000 | 34.66 | 57.25 | 22.60 | N | ON | 10 |
| 0.458000 | 35.31 | 56.73 | 21.42 | N | ON | 10 |
| 3.402000 | 33.71 | 56.00 | 22.29 | N | ON | 10 |
| 4.974000 | 34.95 | 56.00 | 21.05 | N | ON | 10 |
| 8.250000 | 39.40 | 60.00 | 20.60 | N | ON | 10 |

Measurement Results: Average

| Frequency (MHz) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|----------------|--------------|-------------|------|--------|------------|
| 0.430000 | 29.40 | 47.25 | 17.85 | N | ON | 10 |
| 0.450000 | 30.90 | 46.88 | 15.98 | N | ON | 10 |
| 1.498000 | 27.73 | 46.00 | 18.27 | N | ON | 10 |
| 2.994000 | 28.64 | 46.00 | 17.36 | N | ON | 10 |
| 4.942000 | 28.90 | 46.00 | 17.10 | N | ON | 10 |
| 8.550000 | 35.31 | 50.00 | 14.69 | N | ON | 10 |

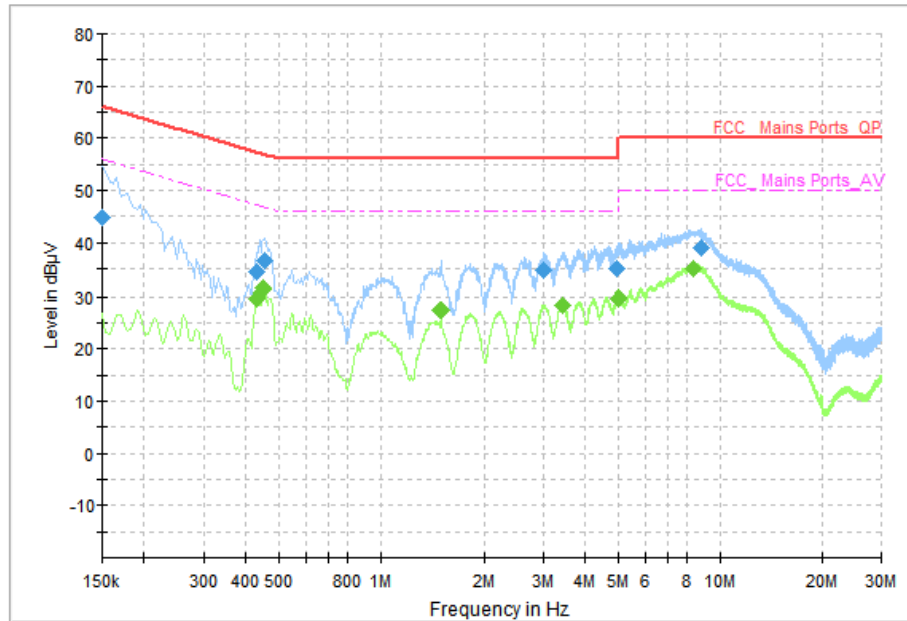


Figure A-6 Conducted Emission (Idle)

Measurement Results: Quasi Peak

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|--------------|-------------|------|--------|------------|
| 0.150000 | 44.89 | 66.00 | 21.11 | N | ON | 10 |
| 0.430000 | 34.56 | 57.25 | 22.70 | N | ON | 10 |
| 0.454000 | 36.55 | 56.80 | 20.26 | N | ON | 10 |
| 2.994000 | 34.63 | 56.00 | 21.37 | N | ON | 10 |
| 4.970000 | 34.90 | 56.00 | 21.10 | N | ON | 10 |
| 8.766000 | 39.14 | 60.00 | 20.86 | N | ON | 10 |

Measurement Results: Average

| Frequency (MHz) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|----------------|--------------|-------------|------|--------|------------|
| 0.430000 | 29.55 | 47.25 | 17.70 | N | ON | 10 |
| 0.450000 | 31.27 | 46.88 | 15.61 | L1 | ON | 10 |
| 1.498000 | 27.43 | 46.00 | 18.57 | L1 | ON | 10 |
| 3.410000 | 28.17 | 46.00 | 17.83 | N | ON | 10 |
| 4.994000 | 29.46 | 46.00 | 16.54 | N | ON | 10 |
| 8.370000 | 35.03 | 50.00 | 14.97 | L1 | ON | 10 |

A.6.6. Measurement Uncertainty

Measurement uncertainty: $U = 2.62$ dB, $k=2$

END OF REPORT