



# RF TEST REPORT

**Report No.:** SET2022-04870

**Product Name:** 5G NR Multi model smart phone

**Model No. :** ZTE 7540N

**FCC ID:** SRQ-ZTE7540N

**Applicant:** ZTE CORPORATION.

**Address:** ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, P.R.China.

**Dates of Testing:** 2022.04.08-2022.06.06

**Issued by:** CCIC Southern Testing Co., Ltd.

**Lab Location:** Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

**Tel:** 86 755 26627338    **Fax:** 86 755 26627238

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## Test Report

**Product Name** ..... : 5G NR Multi model smart phone

**Trade Name** ..... : ZTE

**Brand Name** ..... : ZTE

**Applicant** ..... : ZTE CORPORATION.


**Applicant Address** ..... : ZTE Plaza, Keji Road South, Hi-Tech, Industrial  
Park, Nanshan District, Shenzhen, Guangdong,  
P.R.China.


**Manufacturer** ..... : ZTE CORPORATION.

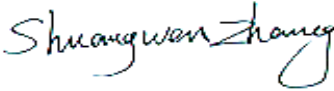
**Manufacturer Address** ..... : ZTE Plaza, Keji Road South, Hi-Tech, Industrial  
Park, Nanshan District, Shenzhen, Guangdong,  
P.R.China.

**Test Standards** ..... : 47 CFR FCC Part 15.225

**Test Result** ..... : Pass

**Tested by** ..... :  2022.06.07  
Sun, Test Engineer

**Reviewed by** ..... :  2022.06.07  
Chris You, Senior Engineer

**Approved by** ..... :  2022.06.07  
Shuangwen Zhang, Manager



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Change History		
Issue	Date	Reason for change
1.0	2022.04.29	First edition
2.0	2022.06.07	Updated battery voltage. Radiated emissions from 9kHz to 30MHz were re-measured.



## 1. GENERAL INFORMATION

### 1.1 EUT Description

EUT Type	5G NR Multi model smart phone
Hardware Version	zs9A
Software Version	MyOS11.0.1_7540N_VFPT
Operating Rang	13.56MHz
Number of channel	1
Modulation Type	ASK
Antenna Type	Internal Antenna
Antenna Gain	0dBi



## 1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

1. 47 CFR FCC Part 15
2. ANSI C63.10-2013
3. FCC KDB 174176 D01

Test detailed items/section required by FCC rules and results are as below:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	PASS
§15.207	Conducted Emission	PASS
15.225(d) §15.209	Radiated Emission Test	PASS
§15.225(a) (b) (c) §15.31(f)	Field Strength of Radiated Emissions	PASS
§15.225(e)	Frequency Stability	PASS
§15.215(c)	20 dB Bandwidth Testing	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2013.



### 1.3 Facilities and Accreditations

#### 1.3.1 Facilities

**CNAS-Lab Code: L1659**

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

**FCC-Registration No.: 406086**

CCIC Southern Testing Co., Ltd 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. Designation Number: CN1283, valid time is until April 19th, 2023.

**ISED Registration: 11185A-1****CAB identifier: CN0064**

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Jun. 30th, 2023.

**A2LA Code: 5721.01**

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

#### 1.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature ( °C):	15 °C - 35 °C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa



## 2. 47 CFR PART 15C REQUIREMENTS

### 2.1 Antenna requirement

#### 2.1.1 Applicable Standard

According to FCC 15.203, 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.

#### 2.1.2 Antenna Information

**Antenna Category:** Integral antenna

**Antenna General Information:**

No.	EUT	Ant. Cat.	Gain(dBi)
1	5G NR Multi model smart phone	Internal antenna	0

#### 2.1.3 Result: comply

The EUT has a permanently antenna. which complies with the Part 15.203. Please refer to the EUT internal photos.





## **2.2 Field Strength of Radiated Emissions**

### **2.2.1 Requirement**

As per FCC Part 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.
- (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.
- (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.
- (d) Extrapolation Factor =  $20 \log_{10}(30/3)^2 = 40\text{dB}$ .

### **2.2.2 Test Description**

The measured Field Strength of Radiated Emissions was calculated by the reading of the spectrum analyzer and calibration.

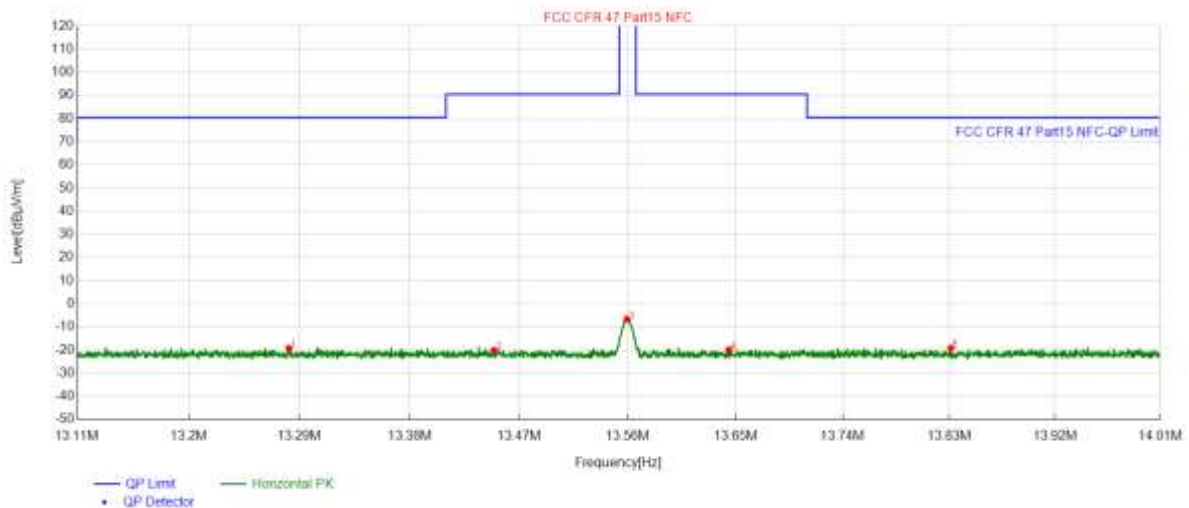
#### **A. Test Setup:**

The radiated emission tests were performed in the 10-meter chamber A test site, using the setup accordance with the ANSI C63.10:2013. The specification used was the FCC Part Subpart C limits.

**B. Test Result**

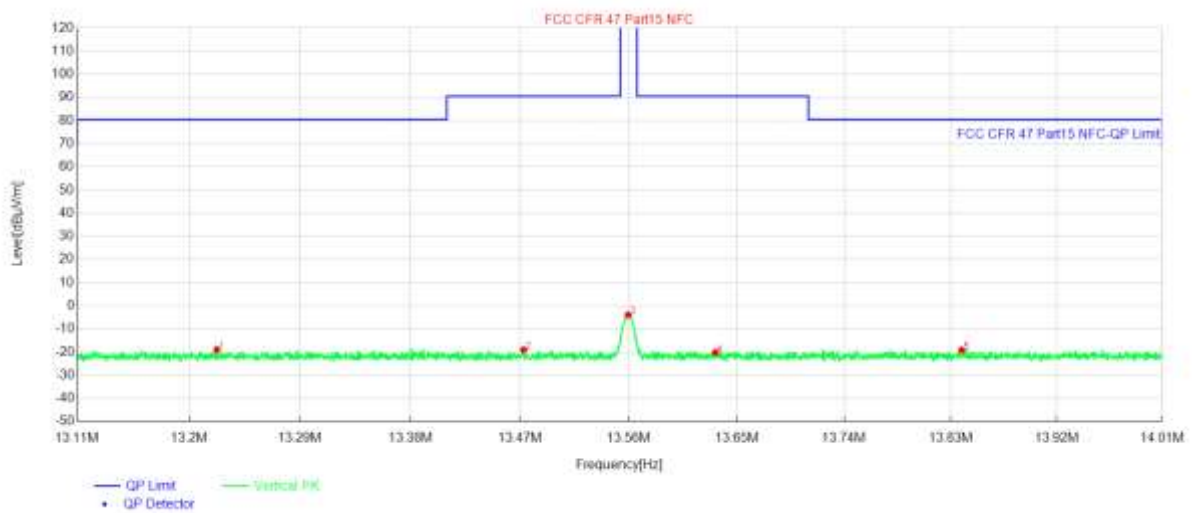
Test Mode: Continuous Transmitting

Frequency Range (MHz)	Frequency (MHz)	Level@3m (dBμV/m)	Limit@3 (dBμV/m)	Detector	Polarity	Result
13.110-13.410	13.2814	-19.25	80.5	QP	Horizontal	PASS
13.410-13.553	13.4494	-20.10	90.5	QP	Horizontal	PASS
13.553-13.567	13.5596	-6.65	124.00	QP	Horizontal	PASS
13.567-13.710	13.6445	-19.91	90.5	QP	Horizontal	PASS
13.710-14.010	13.8314	-19.18	80.5	QP	Horizontal	PASS





Frequency Range (MHz)	Frequency (MHz)	Level@3m (dBμV/m)	Limit@3 (dBμV/m)	Detector	Polarity	Result
13.110-13.410	13.2225	-18.95	80.5	QP	Vertical	PASS
13.410-13.553	13.4731	-19.02	90.5	QP	Vertical	PASS
13.553-13.567	13.5596	-3.96	124.00	QP	Vertical	PASS
13.567-13.710	13.6322	-20.19	90.5	QP	Vertical	PASS
13.710-14.010	13.8392	-19.12	80.5	QP	Vertical	PASS



## 2.3 20 dB Bandwidth Testing

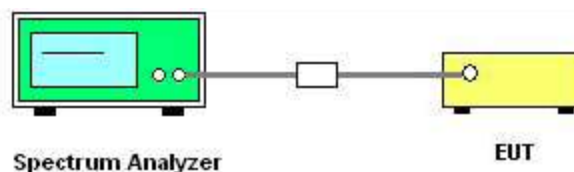
### 2.3.1 Requirement

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553-13.567MHz).

### 2.3.2 Test Description

#### A. Test Set:



The EUT which is powered by the AC 120V/60Hz is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss and Atten as the factor is calibrated to correct the reading.

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

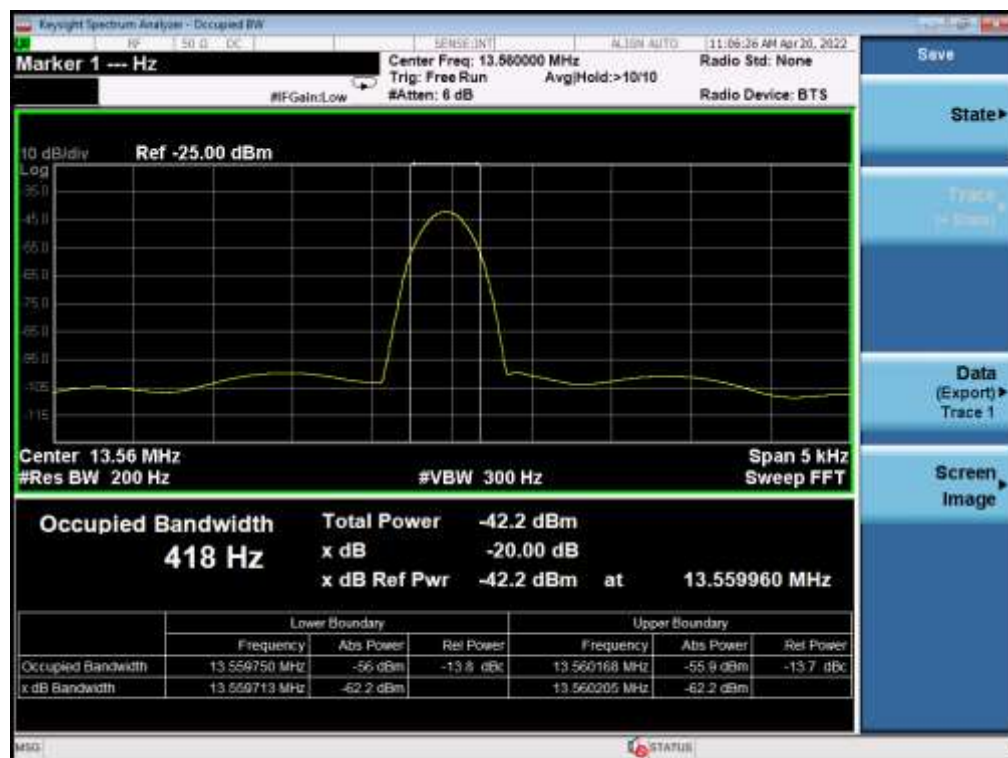


### 2.3.3 Test Result

Test Frequency(MHz)	20dB Bandwidth(kHz)	Limit (kHz)	Results
13.56	0.418	11.2	Passed

Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.

#### 20 dB Occupied Bandwidth



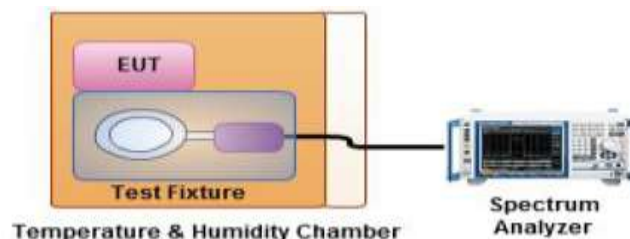
## 2.4 Frequency Stability

### 2.4.1 Requirement

According to FCC section 15.225(e), the frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  (100ppm) 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

### 2.4.2 Test Description

#### A. Test Set:



The EUT is powered by AC 120V/60Hz, which is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

#### B. Test Procedure

Frequency Stability vs. Temperature: The EUT is powered by AC 120V/60Hz, then antenna was connected to a Spectrum Analyzer. The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external variable AC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.



### 2.4.3 Test Result

Test Mode: Continuous Transmitting

Test Environment		Frequency Reading (MHz)	Frequency Error (%)	Part 15.225 Limit (%)	Result
Adapter Power Supply	Temperature (°C)				
DC3.85V	-20	13.56061	0.0045	$\pm 0.01\%$ ( $\pm 100\text{ppm}$ )	Pass
	-10	13.56064	0.0047		Pass
	0	13.56062	0.0046		Pass
	10	13.56063	0.0046		Pass
	20	13.56063	0.0046		Pass
	30	13.56064	0.0047		Pass
	40	13.56067	0.0049		Pass
	50	13.56067	0.0049		Pass
Max. = DC 4.45V	20	13.56063	0.0046		Pass
Min. = DC 3.50V	20	13.56061	0.0045		Pass

## 2.5 Conducted Emission

### 2.5.1 Requirement

According to FCC section 15.207, 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 within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

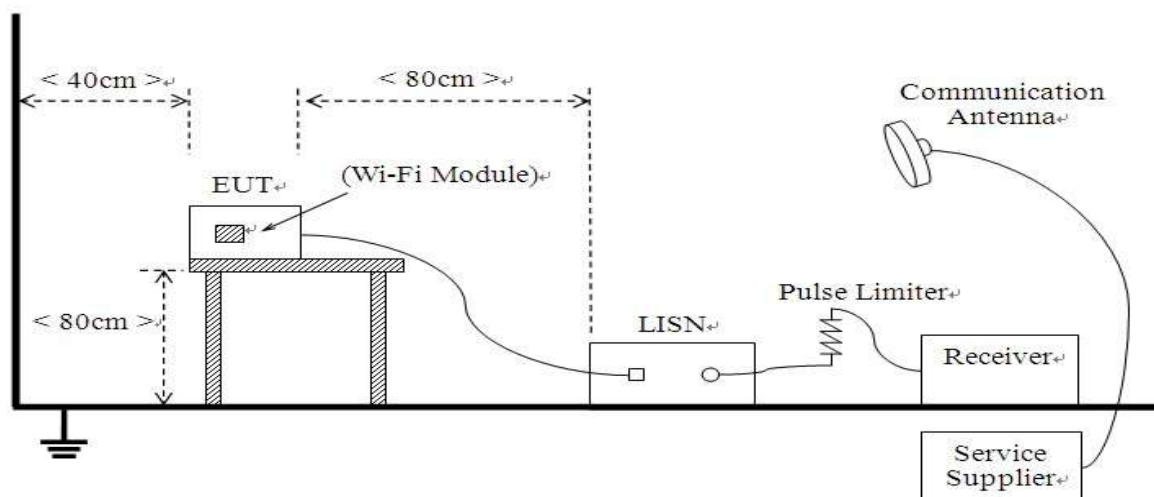
Frequency range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

### 2.5.2 Test Description

#### A. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10:2013:2009

The EUT is powered by AC 120V/60Hz. The factors of the site are calibrated to correct the reading. During the measurement.





### 2.5.3 Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

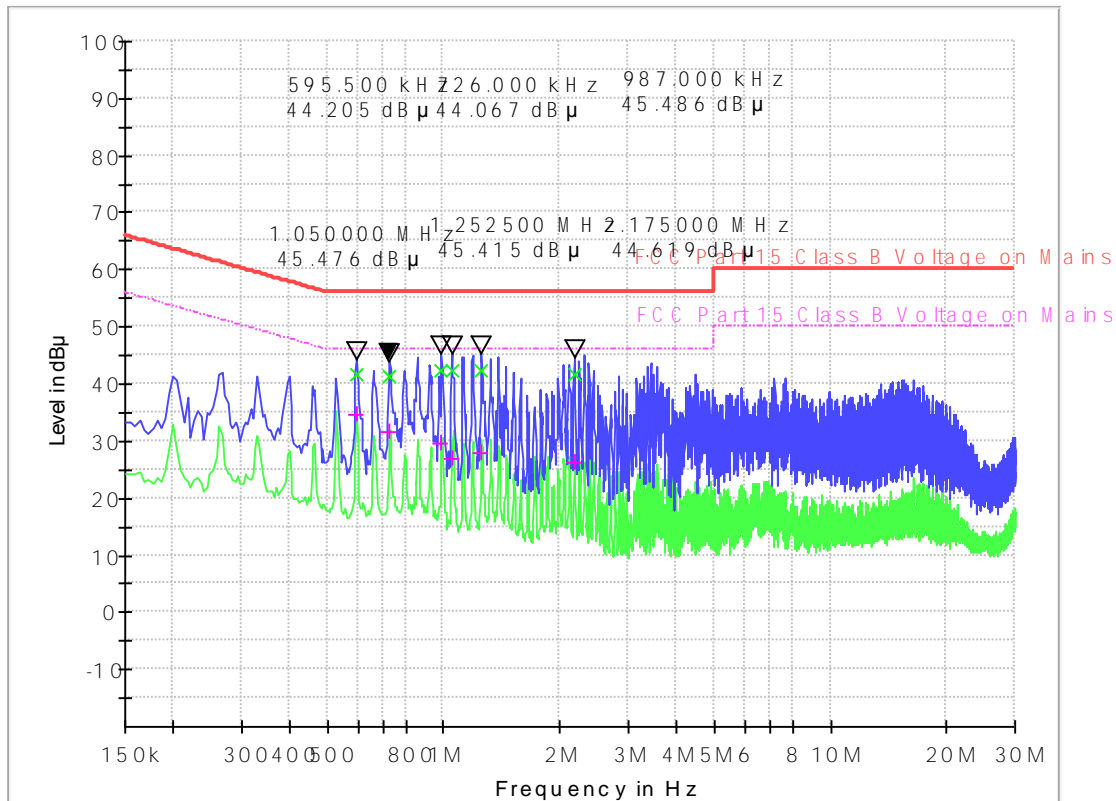
#### A. Test setup:

The EUT configuration of the emission tests is EUT.



## B. Test data and Plots:

### Line Phase



Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Average (dB $\mu$ V)	Cabel Loss (dB)	Corr.Factor (dB)	rgin - QPK	Limit - QPK (dB $\mu$ V)	Margin - AV (dB)	Limit - AV (dB $\mu$ V)
0.595500	41.84	34.79	0.2	10.2	14.16	56.0	11.21	46.0
0.726000	41.21	31.61	0.2	10.2	14.79	56.0	14.39	46.0
0.987000	42.28	29.5	0.2	10.2	13.72	56.0	16.50	46.0
1.050000	42.33	27.01	0.2	10.2	13.67	56.0	18.99	46.0
1.252500	42.39	27.98	0.2	10.2	13.61	56.0	18.02	46.0
2.175000	41.73	26.16	0.2	10.2	14.27	56.0	19.84	46.0

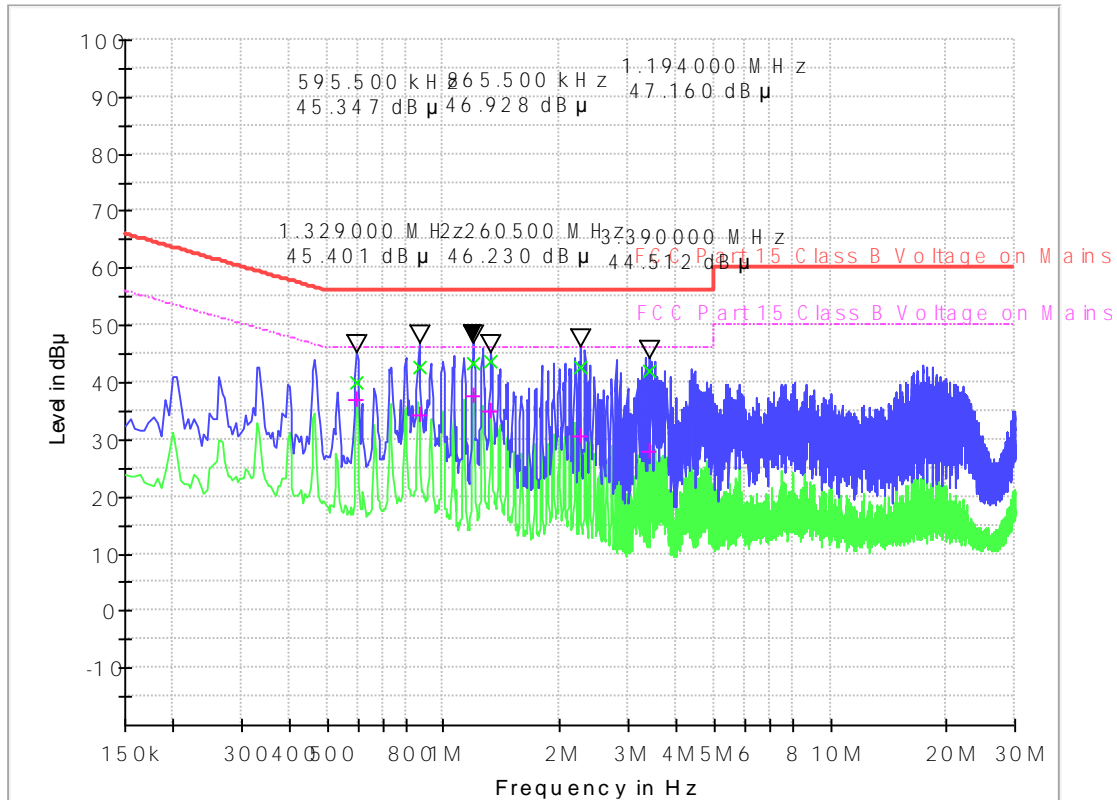
**Test Result : Pass**

Remark:

1. Correction factor = Cabel loss+ attenuation factor.
2. attenuation factor = 10dB.



### Neutral Phase



Frequency (MHz)	QuasiPeak (dB μV)	Average (dB μV)	Cabel Loss (dB)	Corr.Factor (dB)	Margin - QPK (dB)	Limit - QPK (dB μV)	Margin - AV (dB)	Limit - AV (dB μV)
0.595500	39.94	37.03	0.2	10.2	16.06	56.0	8.97	46.0
0.865500	42.56	34.37	0.2	10.2	13.44	56.0	11.63	46.0
1.194000	43.36	37.78	0.2	10.2	12.64	56.0	8.22	46.0
1.329000	43.64	35.00	0.2	10.2	12.36	56.0	11.00	46.0
2.260500	42.83	30.52	0.2	10.2	13.17	56.0	15.48	46.0
3.390000	41.98	27.91	0.3	10.3	14.02	56.0	18.09	46.0

**Test Result : Pass**

Remark:

1. Correction factor = Cabel loss+ attenuation factor.
2. attenuation factor = 10dB.



## 2.6 Radiated Emission

### 2.6.1 Requirement

According to FCC section 15.225(e), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 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 (MHz)	Field Strength ( $\mu\text{V/m}$ )	Field Strength ( $\text{dB } \mu\text{V/m}$ )	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz}))+80$	300
0.490 - 1.705	$24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz}))+40$	30
1.705 - 30.0	30	$20\log(30)+40$	30
30 - 88	100	40.0	3
88 - 216	150	43.5	3
216 - 960	200	46.0	3
Above 960	500	54.0	3

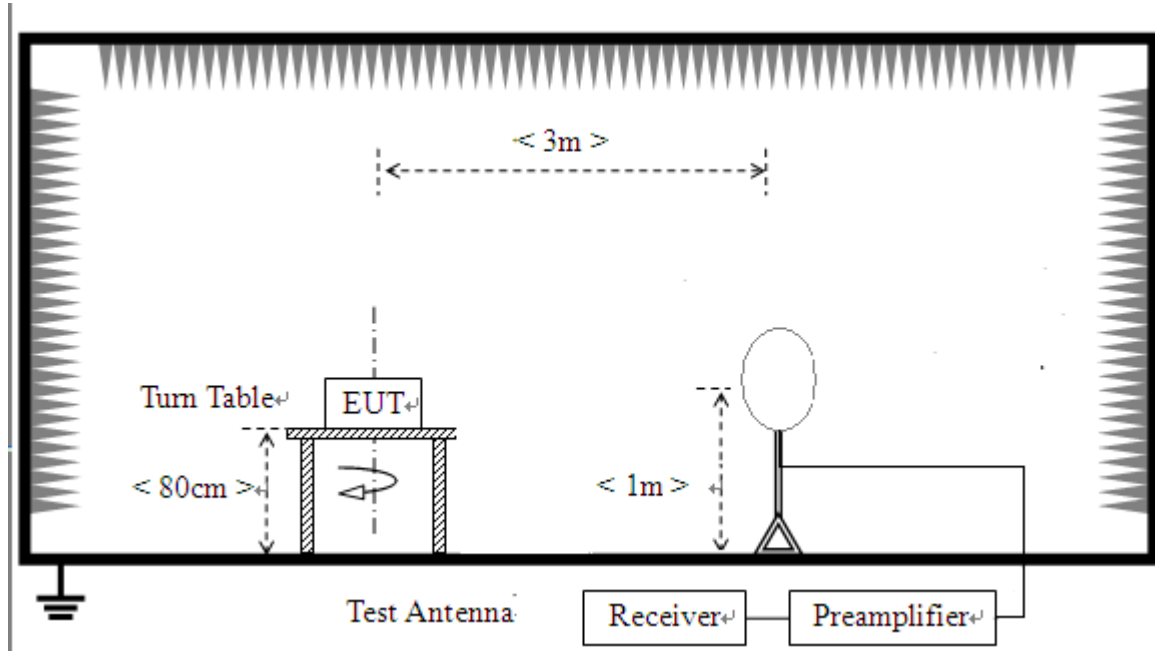
Note:

The radiated emission tests were performed in the 10-meter chamber test site, using the setup accordance with the ANSI C63.10:2013. The specification used was the FCC Part Subpart C limits.

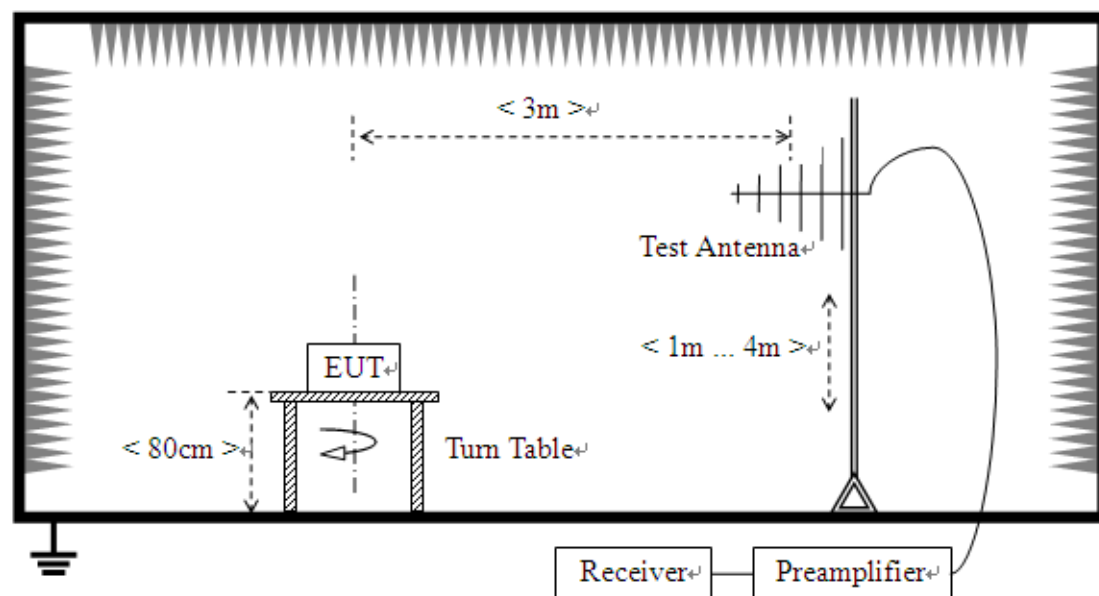
The EUT was connected to a 120VAC/60Hz power source.

## 2.6.2 Test Description

(1) For radiated emissions from 9kHz to 30MHz



(2) For radiated emissions from 30MHz to 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10:2013. The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10:2013.

For the Test Antenna:



- (a) In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz). Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

### 2.6.3 Test Result

According to ANSI C63.10:2013 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

$A_T$ : Total correction Factor except Antenna

$U_R$ : Receiver Reading

$G_{\text{preamp}}$ : Preamplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

$L_{\text{Cable loss}}$ : Cable loss

During the test, the total correction Factor  $A_T$  and  $A_{\text{Factor}}$  were built in test software.

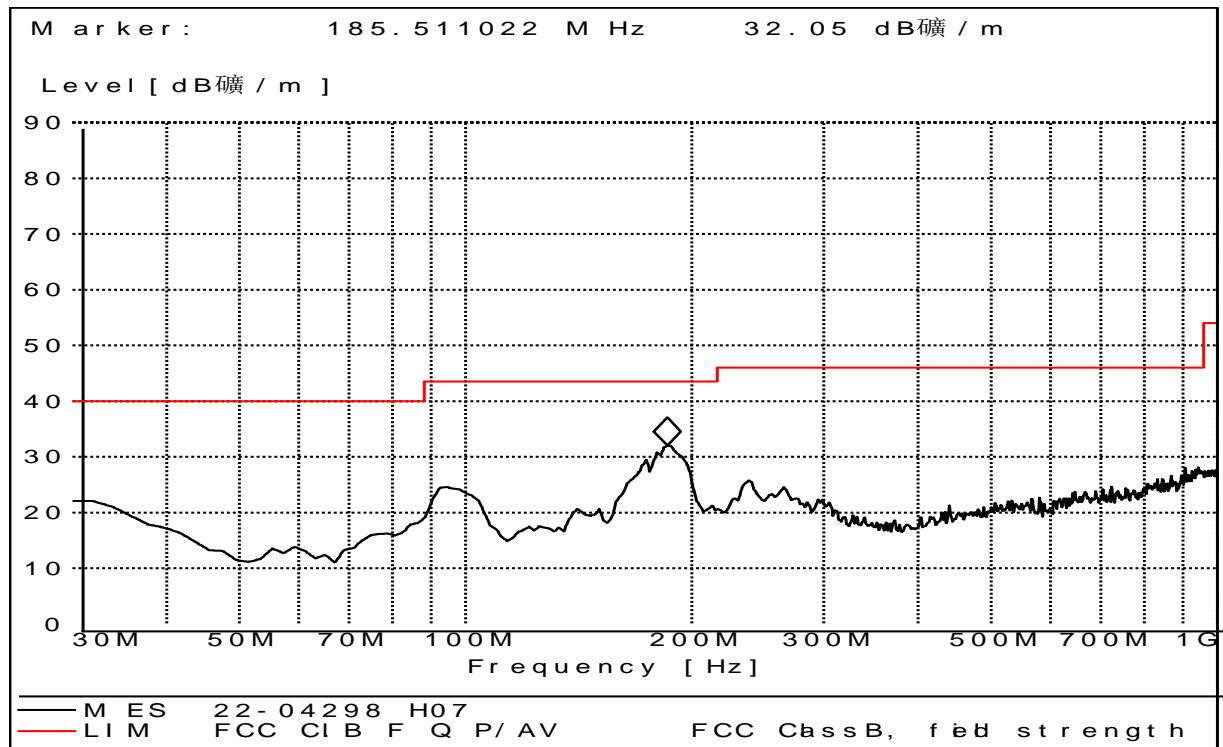
The radiated frequency ranges from 9 kHz to 1 GHz.

Test plots for the whole measurement frequency range:

**For 9 kHz to 30 MHz**

Test Mode: Continuous Transmitting

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Limit@3 (dB $\mu$ V/m)	Detector	Polarity	Result
0.0238	-10.33	120.47	PK	Horizontal	PASS
0.0935	-17.82	107.32	PK	Horizontal	PASS
0.6201	-19.47	72.51	PK	Horizontal	PASS
1.0624	-20.82	67.19	PK	Horizontal	PASS
6.7361	-19.28	69.54	PK	Horizontal	PASS
18.4435	-16.24	69.54	PK	Horizontal	PASS
0.0175	-8.16	122.47	PK	Vertical	PASS
0.1807	-9.93	103.41	PK	Vertical	PASS
0.5713	-18.75	74.18	PK	Vertical	PASS
0.9248	-21.27	67.15	PK	Vertical	PASS
3.4723	-20.18	69.54	PK	Vertical	PASS
18.5316	-19.52	69.54	PK	Vertical	PASS

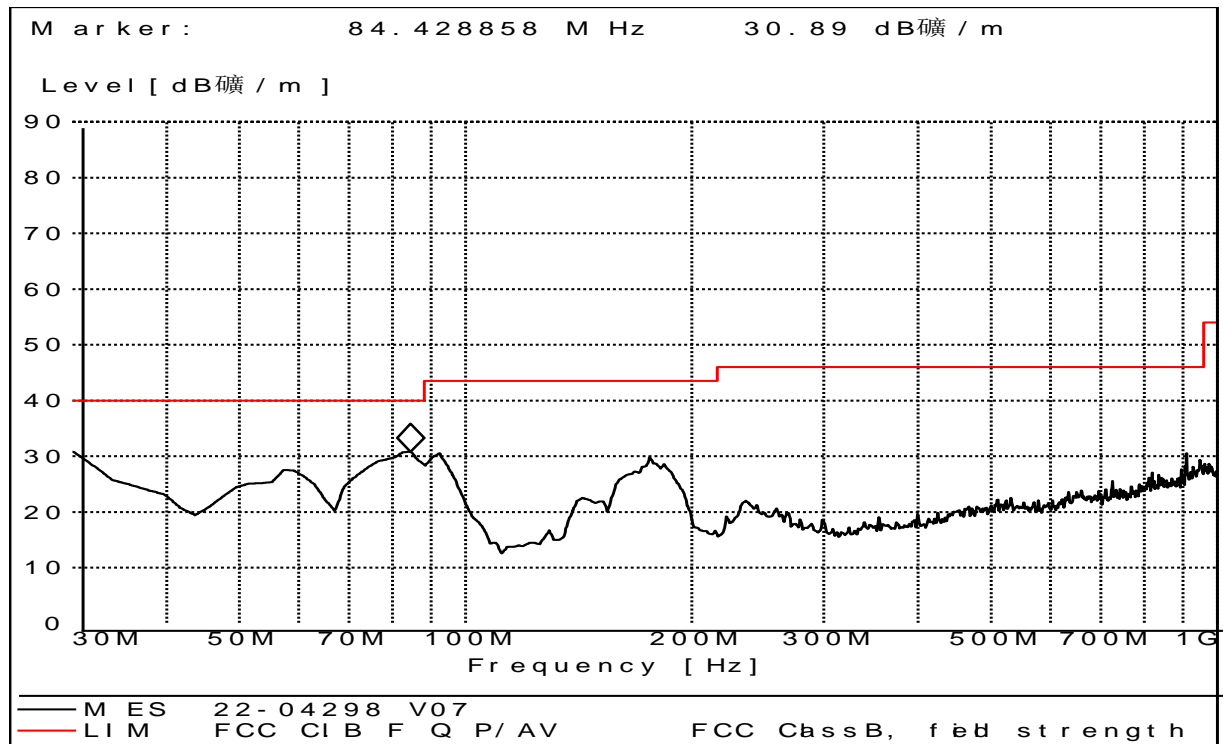
**For 30MHz to 1000 MHz**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Corr.Factor (dB/m)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarity
31.220000	22.01	120.000	19.3	100.0	40.0	17.99	Horizontal
92.200000	22.44	120.000	9.9	100.0	43.5	21.06	Horizontal
173.800000	27.15	120.000	11.9	100.0	43.5	16.35	Horizontal
186.770000	31.36	120.000	11.0	100.0	43.5	12.14	Horizontal
236.990000	24.70	120.000	11.7	100.0	46.0	21.30	Horizontal
265.200000	23.63	120.000	15.1	100.0	46.0	22.37	Horizontal

**Test Result : Pass****Remark:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The other emission levels were very low against the limit.





Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Corr.Factor (dB/m)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarity
30.290000	28.89	120.000	19.3	100.0	40.0	11.11	Vertical
57.120000	25.75	120.000	8.6	10.0	40.0	14.25	Vertical
84.290000	28.93	120.000	8.5	100.0	40.0	11.07	Vertical
93.080000	30.05	120.000	9.9	100.0	43.5	13.45	Vertical
175.790000	27.88	120.000	11.9	100.0	43.5	15.62	Vertical
725.100000	25.57	120.000	21.9	100.0	46.0	20.43	Vertical

**Test Result : Pass****Remark:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The other emission levels were very low against the limit.



### 3. LIST OF MEASURING EQUIPMENT

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI TEST RECEIVER	KEYSIGHT	N9038A	A141202036	2021.08.03	2022.08.02
2	Passive Loop Antenna	SCHWARZBECK	FMZB 1519B	A180903206	2020.07.22	2023.07.21
3	EMI TEST Software	R&S	ESK1	N/A	N/A	N/A
4	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2022.03.25	2023.03.24
5	Temperature chamber	Yamato	DNF810C	A170702700	2022.03.31	2023.03.30
6	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2021.08.11	2022.08.10
7	Test software	ECIT	Eagle	V2.0	N/A	N/A
8	Power Supply	R&S	ESIB26	A0304218	2021.12.23	2022.12.22
9	ULTRA-BROADBAND ANTENNA	SCHWARZBECK	VULB9160	A0805560	2019.05.24	2022.05.23



#### 4. UNCERTAINTY OF EVALUATION

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage  $K=2$  to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95% ( $U=2U_c(y)$ )	2.8dB
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Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95% ( $U=2U_c(y)$ )	3.5dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95% ( $U=2U_c(y)$ )	3.91dB
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Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95% ( $U=2U_c(y)$ )	1.3dB
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\*\* END OF REPORT \*\*