





# Industrial Internet Innovation Center (Shanghai) Co.,Ltd.

### **NFC TEST REPORT**

PRODUCT	Tedee Keypad PRO	
BRAND	Tedee	
MODEL	ТКV2.0	
APPLICANT	Tedee Sp. z o.o.	
FCC ID	2BCK5TKV20	
IC	31583-TKV20	
ISSUE DATE	November 19, 2024	
STANDARD(S)	FCC CFR47 Part 2, FCC CF RSS-210 Issue 11, RSS-Gen	R47 Part 15C, ANSI C63.10-2013, Issue 5
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Report No: 24T04I300166-039

## CONTENTS

1 SUMN	MARY OF TEST REPORT	
1.1	Test Standard (s)	
1.2	SUMMARY OF TEST RESULTS	3
2 GENE	RAL INFORMATION OF THE LABORATORY	4
2.1	Testing Laboratory	4
2.2	LABORATORY ENVIRONMENTAL REQUIREMENTS	4
2.3	PROJECT INFORMATION	4
3 GENE	RAL INFORMATION OF THE CUSTOMER	5
3.1	Applicant	5
3.2	MANUFACTURER	5
3.3	FACTORY	5
4 GENE	RAL INFORMATION OF THE PRODUCT	6
4.1	PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
4.2	DESCRIPTION FOR AUXILIARY EQUIPMENT (AE)	6
5 TEST O	CONFIGURATION INFORMATION	7
5.1	LABORATORY ENVIRONMENTAL CONDITIONS	7
5.2	DECISION OF FINAL TEST MODE	8
5.3	EUT System Operation	8
5.4	EUT CONNECTION DIAGRAM OF TEST SYSTEM	8
5.5	Test Equipment Utilized	9
5.6	Measurement Uncertainty	9
6 TEST I	RESULTS	
6.1	20dB Bandwidth	
6.2	FREQUENCY STABILITY	
6.3	RADIATED EMISSION	
6.4	Conducted Emissions	
6.5	Occupied bandwidth	21
ANNEX	A: MEASUREMENT DATA	
ANNEX	B: REVISED HISTORY	
ANNEX	C: ACCREDITATION CERTIFICATE	29



### **1** Summary of Test Report

#### 1.1 Test Standard (s)

No.	Test Standard(s)	Title
1	FCC CFR47 Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC CFR47 Part 15C	Radio Frequency Devices-Intentional Radiators
3	ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
4	RSS-210	License-Exempt Radio Apparatus: Category I Equipment
5	RSS-Gen	General Requirements for Compliance of Radio Apparatus

1.2 30	2 Summary of Test Results				
No.	Item(s)	Sub-clause of FCC Standard	Sub-clause of IC Standard	Verdicts for Single Item	Detailed Results
1	20 dB bandwidth	2.1049	RSS Gen 6.7	Pass	See section 6.1
2	Frequency Stability	15.225(e)	RSS 210 B.6.b	Pass	See section 6.2
3	Radiated Emission	15.225 (a) (b) (c) (d) and 15.209	RSS 210 B.6.a (i , ii , iii , iv)	Pass	See section 6.3
4	Conducted Emissions	15.207	RSS Gen 8.8	N/A	See section 6.4
5	Occupied bandwidth	N/A	RSS Gen 6.7	Pass	See section 6.5
6	Antenna Requirement	15.203	RSS GEN 6.8	Pass	See Note 2

### 1.2 Summary of Test Results

#### NOTE:

The TKV2.0, manufactured by Tedee Sp. z o.o. is a new product for testing.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 1.3.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 4 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 1 of this test report. Note 2:

The EUT has an internal loop antenna for NFC (13.56MHz) function, so this EUT complies with the 15.203/ RSS Gen 6.8 antenna requirements, please refer to the internal photos.



### 2 General Information of The Laboratory

### 2.1 Testing Laboratory

Lab Name	Industrial Internet Innovation Center (Shanghai) Co., Ltd.
Address	Building 4, No. 766, Jingang Road, Pudong, Shanghai, China
Telephone	021-68866880
FCC Registration No.	708870
FCC Designation No.	CN1364
IC designation No.	10766A
CAB identifier	CN0067

### 2.2 Laboratory Environmental Requirements

Temperature	<b>15℃~35℃</b>
Relative Humidity	25%RH~75%RH
Atmospheric Pressure	86kPa~106kPa
Supply Voltage	Battery powered or DC 12V powered

### 2.3 Project Information

Project Manager	Zhang Heng
Test Date	September 30, 2024 to October 29, 2024



### **3** General Information of The Customer

#### 3.1 Applicant

Company	Tedee Sp. z o.o.
Address	Karola Bohdanowicza 21/57 Street
Telephone	+48 519 176 611
3.2 Manufactur	er

Company	Tedee Sp. z o.o.
Address	Karola Bohdanowicza 21/57 Street
Telephone	+48 519 176 611

# 3.3 Factory

Company	N/A
Address	N/A



### **4** General Information of The Product

### 4.1 Product Description for Equipment under Test (EUT)

Product	Tedee Keypad PRO
Model	ТКV2.0
Date of Receipt	October 28, 2024
EUT ID*	S13aa
SN/IMEI	N/A
Supported Radio Technology and Bands	BT 5.0 LE NFC
Hardware Version	Р3
Software Version	V2.0
Operating Frequency	13.56MHz
Antenna Information	Loop Antenna
Modulation information	ASK
Product Class	
NOTE1: EUT ID is the internal identificat NOTE2: Photographs of EUT are shown i NOTE3: Samples in the test report are put the samples received by the laboratory	ion code of the laboratory. n ANNEX A of this test report. rovided by the customer. The test results are only applicable to

### 4.2 Description for Auxiliary Equipment (AE)

AE ID*	Description	Model	SN/Remark
AE1	DC Cable	N/A	N/A
AE2	Battery	LR03	1.5V
AE3	DC Source	N/A	N/A





### 5 Test Configuration Information

### **5.1 Laboratory Environmental Conditions**

#### 5.1.1 Permanent Facilities

Semi-anechoic chamber SAC3-1 (9 m*8m*)	6.2m) & SAC3-2 (9.8m*6.7m*6.7m)
Shielding effectiveness	0.014MHz ~1MHz, >60dB; 1MHz~1000MHz, >90dB.
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (SVSWR)	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

Shielded room	
Shielding effectiveness	0.014MHz~1MHz, >60dB; 1MHz~1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω



#### 5.2 Decision of final test mode

The EUT was tested in conjunction with the accessories in Section 4.2. We tested all of the following test modes and selected the worst mode from the test results and recorded them in the report.

The test configuration modes are as the following:

A.	Test Item	Test setup and operating modes
	20 dB bandwidth	Mode 1: TX Mode+ AE2
	Frequency Stability	Mode 2: TX Mode+ AE1+ AE3
A CHIN	Radiated emission	Mode 1: TX Mode+ AE2
	Occupied bandwidth	Mode 1: TX Mode+ AE2

Note: After the verification of Part 15B, CA01 is the worst adapter for testing Conducted Emissions.

#### 5.3 EUT System Operation

- 1. Connect the EUT with AE.
- 2. Setup the EUT according to the standard.
- 3. Start testing and monitoring the function.
- 4. TX mode: The EUT will transmit the NFC signal continuously during the test.

#### 5.4 EUT Connection Diagram of Test System



<Figure 5.5-1> Mode 1







### 5.5 Test Equipment Utilized

No.	Name	Model	S/N	SW Version	HW Version	Manuf acturer	Cal. Date	Cal. Interval
1	Test Receiver	ESU40	100307	00	01	R&S	2023-12-19	1 year
2	Trilog Antenna	VULB9163	01345	N/A	N/A	Schwar zbeck	2024-03-29	1 year
3	EMI Test Software	EMC32 V10.35.02	N/A	N/A	N/A	R&S	N/A	N/A
4	Loop Antenna	AL-130R	121083	N/A	N/A	COM- POWE R	2024-08-31	1 year
5	Temperature Box	B-TF-107C	20180410 7	N/A	N/A	Воуі	2024-06-07	1 year

### 5.6 Measurement Uncertainty

Item (s)	Uncertainty
20 dB bandwidth	±1.9%
Frequency Stability	±1.9%
Electric Field Strength of Fundamental Emissions	4.38 dB
Electric Field Radiated Emissions (Below 30MHz)	4.38 dB
Electric Field Radiated Emissions (Above 30MHz)	5.10 dB
Occupied bandwidth	±1.9%





### **6 Test Results**

#### 6.1 20dB Bandwidth

- 6.1.1 Measurement Methods
- a. The transmitter output signal was picked up by coil antenna to the spectrum analyzer.
- b. The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer.
- c. The bandwidth of the center frequency was measured with 200Hz RBW, 500Hz VBW and 14kHz span.
- 6.1.2 EUT Connection Diagram of Test System



Figure 6.1.2-1 20dB Bandwidth Connection Diagram

#### 6.1.3 Test Condition

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

EUT had been not connected to a travel adapter.

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

#### 6.1.4 Test environmental conditions

Temperature	<b>24.7</b> ℃
Relative Humidity	58.1%RH
Atmospheric Pressure	101.3kPa

#### 6.1.5 Test Results

Carrier frequency (MHz)	20dB Bandwidth (kHz)	Test Results	Conclusion
13.56	0.830	See Annex A.1-1	Pass





#### 6.2 Frequency Stability

6.2.1 Measurement Methods

The transmitter output single 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.

6.2.2 EUT Connection Diagram of Test System



Figure 6.2.2-1 Frequency Stability Connection Diagram

#### 6.2.3 Test Condition

The measurement of EUT is carried out under the transmit state of without modulation, EUT had been not connected to a travel adapter.

Operation Temperature: -20°C 、 -10°C 、 0°C 、 10°C 、 20°C 、 25°C 、 30°C 、 40°C 、 50°C

Operation Voltage: Vmin=DC 5V, Vmax=DC 25V, and Tnom=DC 12V.

#### 6.2.4 Limit/Criterion

15.225(e): The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

RSS-210 B.6.b: The frequency tolerance of the carrier signal shall be maintained within ± 100 ppm of the operating frequency.

Industrial Internet Innovation Center (Shanghai) Co., Ltd.



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Report No: 24T04I300166-039

#### 6.2.5 Test environmental conditions

Temperature	<b>24.7</b> ℃
Relative Humidity	58.1%RH
Atmospheric Pressure	101.3kPa

#### 6.2.6 Test Results

See Annex A.2-1





#### 6.3 Radiated Emission

#### 6.3.1 Electric Field Strength of Fundamental Emissions

#### 6.3.1.1 Method of Measurement

a. The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. 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 antenna is 1 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. Both horizontal and vertical polarizations of the antenna were set during the measurement. 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.

b. The EUT was placed on the axis of X, Y and Z respectively for testing. Only the worst direction data is represented in the report.

#### c. The measurement bandwidth:

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

#### 6.3.1.2 EUT Connection Diagram of Test System







#### 6.3.1.3 Test Condition

Frequency Range (MHz)	RBW/VBW	Sweep Time (s)
12.56-14.56	10kHz/30kHz	AUTO

#### 6.3.1.4 Limit/Criterion

Clause 15.225(a) the field strength of any emissions within the band 13.553-13.567 MHz shall not

exceed 15,848 microvolts/meter at 30 meters.

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

Clause 15.225(c) within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any

emissions shall not exceed 106 microvolts/meter at 30 meters.

Frequency Range (MHz)	E-field Strength Limit @30m (uV/m)	E-field Strength Limit @3m (dBuV/m)
13.560 ± 0.007	+15,848	124
13.410 to 13.553	+334	90
13.567 to 13.710		
13.110 to 13.410	+106	81
13.710 to 14.010	100	

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) = 40log10(Measurement Distance / Specification Distance)

#### 6.3.1.5 Test environmental conditions

Temperature	<b>24.7</b> ℃
Relative Humidity	58.1%RH
Atmospheric Pressure	101.3kPa



#### 6.3.1.6 Test Results

Mode	Frequency (MHz)	Test Results	Verdicts
Mode 1: TX Mode+ AE2	13.2-14	See Annex A.3.1-1	Pass
NOTE:			
a. Abbreviations used in this clause	e: Pass—P; Fail—F; Not app	licable—N/A	
b. The result displayed take into ac	count applicable antenna f	actors and cable losses.	





#### 6.3.2 Electric Field Radiated Emissions (Below 30MHz)

#### 6.3.2.1 Method of Measurement

a. 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 center of the receiving antenna is 1 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. Both horizontal and vertical polarizations of the antenna were set during the measurement. 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.

b. The EUT was placed on the axis of X, Y and Z respectively for testing. Only the worst direction data is represented in the report.

c. The measurement bandwidth:

Frequency (MHz)	RBW / VBW	
0.009-30	10 / 30kHz	

6.3.2.2 EUT Connection Diagram of Test System





#### 6.3.2.3 Test Condition

Frequency Range (MHz)	RBW/VBW	Sweep Time (s)	
0.009-30	10kHz/30kHz	AUTO	



#### 6.3.2.4 Limit/Criterion

Frequency Range (MHz)	E-field Strength Limit @30m	E-field Strength Limit @3m
	(mV/m)	(dBuV/m)
0.009-0490	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) = 40log10(Measurement Distance / Specification Distance)

dBuA/m=dBuV/m / 120π

#### 6.3.2.5 Test environmental conditions

Temperature	<b>24.7</b> °C
Relative Humidity	58.1%RH
Atmospheric Pressure	101.3kPa

6.3.2.6 Test Results

Mode	Frequency (MHz)	Test Results	Verdicts
Mode 1: TX Mode+ AE2	0.009-30	See Annex A.3.2-1	Pass

NOTE:

a. Abbreviations used in this clause: Pass—P; Fail—F; Not applicable—N/A

b. The result displayed take into account applicable antenna factors and cable losses

c. dBuV/m and dBuA/m can be converted to each other, so the test data of dBuV/m are reflected in the report





#### 6.3.3 Electric Field Radiated Emissions (Above 30MHz)

#### 6.3.3.1 Method of Measurement

a. 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 center of the receiving antenna is 1 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. Both horizontal and vertical polarizations of the antenna were set during the measurement. 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.

b. The EUT was placed on the axis of X, Y and Z respectively for testing. Only the worst direction data is represented in the report.

c. The measurement bandwidth:

Frequency (MHz)	RBW / VBW	
30-1000	120 kHz / 300kHz	

#### 6.3.3.2 EUT Connection Diagram of Test System





#### 6.3.3.3 Test Condition

Frequency Range (MHz)	RBW/VBW	Sweep Time (s)
30-1000	120kHz/300kHz	AUTO



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Report No: 24T04I300166-039

#### 6.3.3.4 Limit/Criterion

Frequency Range (MHz)	Quasi-Peak (dBµV/m)	Peak (dBµV/m)	Average (dBµV/m)
30-88	40	N/A	N/A
88-216	43.5	N/A	N/A
216-960	46	N/A	N/A
Above 960	54	N/A	N/A
Above 1000	N/A	74	54

#### 6.3.3.5 Test environmental conditions

Temperature	24.7°C
Relative Humidity	58.1%RH
Atmospheric Pressure	101.3kPa

#### 6.3.3.6 Test Results

Mode	Frequency (MHz)	Test Results	Verdicts
Mode 1: TX Mode+ AE2	30-1000	See Annex A.3.3-1	Pass

NOTE:

a. Abbreviations used in this clause: Pass—P; Fail—F; Not applicable—N/A

b. The result displayed take into account applicable antenna factors and cable losses

c. QP detection is used in radiated emissions test, and the Duty Cycle of NFC main frequency signal is 100%.





### 6.4 Conducted Emissions

Since the EUT not support AC power supply, the test item is not applicable.





#### 6.5 Occupied bandwidth

6.5.1 Reference

See Clause 6.7 of RSS-Gen.

#### 6.5.2 Measurement Methods

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

The following conditions shall be observed for measuring the occupied bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may
  be used in place of the sampling detector since this usually produces a wider bandwidth than the
  actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to
  determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.
   Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

6.5.3 Measurement Results

See Annex A.4-1



\* RBW 200 Hz Marker 1 [T1 ] VBW 500 Hz 49.73 dBµV 87 dBµV SWT 350 ms 13.560179487 MHz Ref \* Att 10 dB 20.00 dB [T1] ndB BW 830.128205128 Hz - 80 Temp 1 [T1 ndB] 29.44 dBuV <del>973</del> 769 MHz 70 Temp 2 [T1 ndB] 29.14 dBuV 60 56056 89 50 40 т2 30 20 Any m My\_m C -10 Center 13.56 MHz 1.4 kHz/ Span 14 kHz

### **Annex A: Measurement Data**

A.1-1 Mode 1 20dB Bandwidth



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Report No: 24T04I300166-039

Temperature	Y 100	Frequency Error (MHz)			
remperature	Voltage	Startup	2Min Later	5Min Later	10Min Later
- <b>20</b> °C		13.561070	13.560354	13.561136	13.560827
- <b>10</b> °C		13.561134	13.560968	13.561042	13.561112
0°C		13.561230	13.561282	13.560791	13.560933
<b>10</b> ℃	DC 101	13.561211	13.561156	13.560686	13.560342
<b>20</b> ℃	DC 12V	13.560892	13.560729	13.560837	13.560522
<b>30</b> ℃	A CAN	13.560944	13.560941	13.560212	13.560821
<b>40</b> ℃		13.560829	13.560832	13.561239	13.560755
<b>50</b> ℃		13.560769	13.560420	13.560219	13.561262
<b>25℃</b>	DC 5V	13.560957	13.560766	13.561048	13.560861
<b>25</b> ℃	DC 25V	13.560558	13.560692	13.560977	13.560670
Temperature	Voltage	Frequency Error (%)			
- <b>20</b> °C		0.006571	0.001291	0.007057	0.004779
- <b>10</b> °C		0.007043	0.005819	0.006364	0.006880
0°C		0.007751	0.008134	0.004513	0.005560
<b>10</b> ℃		0.007611	0.007205	0.003739	0.001202
<b>20</b> ℃	DC 12V	0.005258	0.004056	0.004852	0.002529
<b>30</b> ℃	Y. S. S. S.	0.005642	0.005619	0.000243	0.004734
<b>40</b> ℃		0.004793	0.004816	0.007817	0.004248
<b>50</b> ℃	C C	0.004351	0.001777	0.000295	0.007987
<b>25</b> ℃	DC 5V	0.005737	0.004329	0.006408	0.005029
<b>25</b> ℃	DC 25V	0.002795	0.003783	0.005885	0.003621
Temperature	Voltage		Frequency	Error (ppm)	H Zun .
- <b>20</b> ℃		65.707097	12.905434	70.574290	47.786980
-10°C	DC 12V	70.426799	58.185073	63.642228	68.804401

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# <u>CAICT</u>中国信通院

Report No: 24T04I300166-039

<b>0</b> °C	Y JAN	77.506352	81.341109	45.132148	55.603986
<b>10</b> ℃		76.105190	72.049196	37.388887	12.020490
<b>20°</b> ℃		52.580427	40.559937	48.524433	25.294651
<b>30°</b> ℃		56.415184	56.193948	2.433596	47.344508
<b>40°</b> ℃		47.934470	48.155706	78.170060	42.477315
<b>50</b> ℃		43.509750	17.772627	2.949814	79.866202
<b>25</b> ℃	DC 5V	57.373874	43.288514	64.084700	50.294321
<b>25</b> ℃	DC 25V	27.949484	37.831359	58.848781	36.208962

A.2-1 Mode 1 Frequency Stability





Figure A.3-1-1 Mode 1 Electric Field Strength of Fundamental Emissions



Figure A.3-2-1 Mode 1 Electric Field Radiated Emissions (Below 30MHz)





Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.827248	9.25	40.00	30.75	1000.0	120.000	105.0	v
35.556008	11.62	40.00	28.38	1000.0	120.000	100.0	V
49.251829	11.07	40.00	28.93	1000.0	120.000	105.0	Н
106.527928	9.73	43.50	33.77	1000.0	120.000	175.0	v
250.023080	16.01	46.00	29.99	1000.0	120.000	179.0	v
595.355509	19.41	46.00	26.59	1000.0	120.000	225.0	v

Figure A.3-3-1 Mode 1 Electric Field Radiated Emissions (Above 30MHz)

Note: Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.





Report No: 24T04I300166-039

er Freq. (MHz)	f <sub>L</sub> (MHz)	MHz) .5590		f <sub>H(</sub> MHz) 13.5613		0	BW
13.56	13.5590					2.266 kHz	
	all of a				4		10
			* RBW 2 VBW 5	200 Hz 500 Hz	Mark	er 1 [T1 49	] .72 dBµV
Ref 87 dBµV	*Att	10 dB	SWI 3	350 ms		13.56017	9487 MHz
- 20					OBW Temp	2.26602 1 [T1 O	5641 kHz <u>8W]</u>
80						20 13.559012	.91 dBµN 2821 MHz
70					Temp	2 [T1 OI 21	8W] .26 dBµN
60						13.301270	040 1412
50			1 Ā				
40		ار					
- 30				2			
20		1 VV		ww	ሳሌጥ		
Mary Mr				v	V V M	KA VW	M
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Figure A.4-1 Mode 1 Occupied bandwidth



<u>CAICT</u>中国信通院

Report No: 24T04I300166-039

### Annex B: Revised History

Version	Revised Content				
VO	Initial				





### **Annex C: Accreditation Certificate**



For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.