



Project No: Report No.: TM-2405000384P TMWK2405001751KR FCC ID: 2AWUU6099001 IC: 26271-6099001

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FCC 47 CFR PART 15 SUBPART C & INDUSTRY CANADA RSS-210

TEST REPORT

For

Video Intercom

Model No.: TD63-HW / TD53-HW

Trade Name: Verkada

Issued to

FCC: Verkada Inc 405 E. 4th Ave. San Mateo California United States 94401 IC:Verkada, Inc. 405 E. 4th Ave. San Mateo CA 94401 United States Of America (Excluding The States Of Alaska

Issued by

Compliance Certification Services Inc. Wugu Laboratory No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. Issued Date: October 29, 2024

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	October 22, 2024	Initial Issue	ALL	Peggy Tsai
01	October 28, 2024	See the following Note Rev. (01)	P.4, 21-26	Peggy Tsai
02	October 29, 2024	See the following Note Rev. (02)	P.5	Peggy Tsai

Note:

Rev. (01) 1. Modify Standard in section 1.

2. Delete the 300m remark of Actual FS and add setting information in section 7.2.

Rev. (02)

1. Modify Remark in section 2.



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1. TEST RESULT CERTIFICATION

TMWK2405001751KR

TM-2405000384P

Applicant: Manufacturer:	 FCC: Verkada Inc 405 E. 4th Ave. San Mateo California United States 94401 IC: Verkada, Inc. 405 E. 4th Ave. San Mateo CA 94401 United States Of America (Excluding The States Of Alaska CHICONY ELECTRONICS (THAILAND) CO., LTD 82 MOO 4 T. THAKHAM A. BANGPAKONG, CHACHOENGSAO, THAILAND 24130
Equipment Under Test:	Video Intercom
Trade Name:	Verkada
Model No.:	TD63-HW / TD53-HW
Date of Test:	June 25 ~ September 6, 2024

APPLICABLE STANDARDS					
STANDARD TEST RESULT					
FCC 47 CFR Part 15 Subpart C & RSS-210 Issue 11 and RSS-GEN Issue 5	Compliance				
Statements of Conformity					
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.					

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.225.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Dally Hong

Dally Hong Sr. Engineer



Project No: TM-2 Report No.: TMW

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2. EUT DESCRIPTION

Product	Video Intercom
Trade	Verkada
Model No.	TD63-HW / TD53-HW
Model Discrepancy	Difference of the model number (list on this report) is just with or without keypad and corresponding housing. All the other HW and FW features are all the same.
Received Date	May 31, 2024
Power Supply	Power from Poe Adapter. ZYXEL / PoE12-60W I/P: 100-240VAC, 2.0A, 50-60Hz O/P: 56.0VDC, 1.161A, 65.1W
Frequency Range	13.56MHz
Modulation Technique	ASK
Number of Channels	1 Channel
Antenna Requirement	Type: PCB Antenna Model: F-OW-51-6008-001-00
PMN	TD63-HW: TD63 TD53-HW: TD53
EUT Serial #	TD63-HW: KENW-T9L4-7D7H TD53-HW: LKEJ-6CR7-LNWW
HW Version	B02
FW Version	v259

Remark:

1. For more details, refer to the User's manual of the EUT.

2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3. Disclaimer: The variant model numbers are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

4. The manufacturer stated that the PoE adapter will provide corresponding current according to the product.

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 15.207, 15.209, 15.215, 15.225.

The tests documented in this report were performed in accordance with IC RSS-210, IC RSS-Gen, and ANSI C63.10: 2013

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(2)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



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3.3 RSS GEN SECTION 8.10 RESTRICTED BANDS OF OPERATIONS

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

- (a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).
- (b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.
- (c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

Table 7 – Restricted frequency bands Note 1							
MHz	MHz	MHz	GHz				
$\begin{array}{r} 0.090 - 0.110 \\ 0.495 - 0.505 \\ 2.1735 - 2.1905 \\ 3.020 - 3.026 \\ 4.125 - 4.128 \\ 4.17725 - 4.17775 \\ 4.20725 - 4.20775 \\ 5.677 - 5.683 \\ 6.215 - 6.218 \\ 6.26775 - 6.26825 \\ 6.31175 - 6.31225 \\ 8.291 - 8.294 \\ 8.362 - 8.366 \\ 8.37625 - 8.38675 \\ 8.41425 - 8.41475 \\ 12.29 - 12.293 \\ 12.51975 - 12.52025 \\ 12.57675 - 12.57725 \end{array}$	16.42 - 16.423 $16.69475 - 16.69525$ $16.80425 - 16.80475$ $25.5 - 25.67$ $37.5 - 38.25$ $73 - 74.6$ $74.8 - 75.2$ $108 - 138$ $149.9 - 150.05$ $156.52475 -$ 156.52525 $156.7 - 156.9$ $162.0125 - 167.17$ $167.72 - 173.2$ $240 - 285$ $322 - 335.4$ $399.9 - 410$	$\begin{array}{r} 608 - 614 \\ 960 - 1427 \\ 1435 - 1626.5 \\ 1645.5 - 1646.5 \\ 1660 - 1710 \\ 1718.8 - 1722.2 \\ 2200 - 2300 \\ 2310 - 2390 \\ 2483.5 - 2500 \\ 2655 - 2900 \\ 3260 - 3267 \\ 3332 - 3339 \\ 3345.8 - 3358 \\ 3500 - 4400 \\ 4500 - 5150 \\ 5350 - 5460 \\ 7250 - 7750 \\ 8025 - 8500 \end{array}$	9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5 Above 38.6				

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.



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3.4 DESCRIPTION OF TEST MODES

The EUT had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

All modes and data rates were investigated and it was determined that ISO 14443A/B and ISO 18092 Type y, 106/212/424/848 kbps.

All data rates were investigated and it was determined that 106 Kbps was considered worst-case. Therefore, all testing was performed in 106 Kbps mode.

3.4.1 The worst mode of measurement

AC Power Line Conducted Emission						
Test Condition	Test Condition AC Power line conducted emission for line and neutral					
Power supply Mode	Mode 1: EUT Power by PoE Adapter(TD63-HW) Mode 2: EUT Power by PoE Adapter(TD53-HW)					
i enel eappiy meae	Mode 2: EUT Power by PoE Adapter(TD53-HW)					
Worst Mode Mode 1 Mode 2 Mode 3 Mode 4						

Radiated Emission Measurement Below 1G						
Test Condition	Test Condition Radiated Emission Below 1G					
Power supply Mode	Mode 1: EUT power by PoE Adapter (TD53-HW) Mode 2: EUT power by PoE Adapter (TD63-HW)					
Worst Mode Mode 1 Mode 2 Mode 2 Mode 3 Mode 4						

Remark:

1. The worst mode was record in this test report.

AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.
 EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Y-Plane) were recorded in this report.



4. TEST SUMMARY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	RSS-GEN Sec. 6.8	2	Antenna Requirement	Pass
15.215	RSS-GEN Sec 6.7	7.1	Occupied Bandwidth (99%) and 20dB Bandwidth	Pass
15.225 (a,b,c,d) 15.209 15.205	Sec B.6, a RSS-GEN Sec 8.9 / 8.10	7.2	Radiated Emissions	Pass
15.255 (e)	Sec B.6, b	7.3	Frequency Stability	Pass
15.207	RSS-GEN Sec. 8.8	7.4	AC Power-line Conducted Emission	Pass

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5. INSTRUMENT CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Conducted_FCC/IC/NCC(AII)							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Loop Probe	LANGER EMV- TECHNIK	RF-R 50-1	02-2644	2024-01-02	2025-01-01		
Constant Temperature Humidity Chamber	TERCHY	MHG-150LF	930619	2023-10-26	2024-10-25		
EXA Signal Analyzer	Keysight	N9030B	MY62291089	2023-10-13	2024-10-12		
Software	N/A						

	966A_Radiated Below 30MHz						
Name of Equipment	Manufacturer Model		Serial Number	Calibration Date	Calibration Due		
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2024-03-15	2025-03-14		
Active Loop Antenna	SCHWARZBECK	FMZB 1513-60	1513-60-028	2023-12-13	2024-12-12		
Thermo-Hygro Meter	WISEWIND	1206	D07	2023-12-07	2024-12-06		
	Sunol Sciences	JB3	A030105	2023-08-08	2024-08-07		
Bi-Log Antenna				2024-07-12	2025-07-11		
Preamplifier	olifier EMEC EM330		060609	2024-02-21	2025-02-20		
Cable	Cable Huber+Suhner 104PEA		20995+21000+1 82330	2024-02-21	2025-02-20		
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R		
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R		
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R		
Software e3 V9-210616c							

Remark:

1. Each piece of equipment is scheduled for calibration once a year.

2. N.C.R. = No Calibration Request.



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	AC Mains Conduction					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
EMI Test Receiver	R&S	ESCI	100064	2024-06-14	2025-06-13	
LISN	TESEQ	LN2-16N	22012	2024-02-29	2025-02-27	
Cable	Woken	SFL402	185A	2024-07-08	2025-07-07	
Software	e3 V6-110812					

Remark:

Each piece of equipment is scheduled for calibration once a year.
 N.C.R. = No Calibration Request.



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5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.213 dB
Channel Bandwidth	± 2.7%
Freqeuncy Stability	± 0.03 ppm
Radiated Emission_9kHz-30MHz	± 3.761 dB
Radiated Emission_30MHz-200MHz	± 3.473 dB
Radiated Emission_200MHz-1GHz	± 3.946 dB

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.4 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Ben Yang	-
Radiation	Ray Li、Tony Chao	-
RF Conducted	Marco Chan	-

Remark: The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309



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6. SETUP OF EQUIPMENT UNDER TEST

6.1 SUPPORT EQUIPMENT

	EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

	Support Equipment (Conducted)					
No.	Equipment	Brand	Model	Series No.	FCC ID	
1	NB(B)	Lenovo	T470	N/A	N/A	
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A	
3	PoE Injector	Zyxel	PoE12-60W	S212L41486914	N/A	
4	RJ45	LINKOMM	E530529	N/A	N/A	
5	RJ45	LINKOMM	E530529	N/A	N/A	
А	Card	N/A	N/A	N/A	N/A	

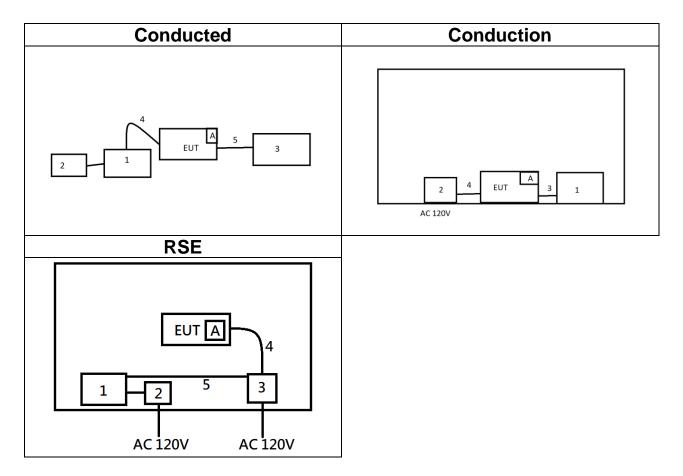
	Support Equipment (RSE)					
No.	Equipment	Brand	Model	Series No.	FCC ID	
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A	
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A	
3	PoE Injector	Zyxel	PoE12-60W	S212L41486914	N/A	
4	Ethernet Cable	Rasto	R-PCC004	N/A	N/A	
5	Ethernet Cable	Atake	AC6-FL10	N/A	N/A	
А	Card	N/A	N/A	N/A	N/A	

	Support Equipment (Conduction)				
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A
2	PoE Injector	Zyxel	PoE12-60W	S212L41486914	N/A
3	Ethernet Cable	Rasto	R-PCC004	N/A	N/A
4	Ethernet Cable	Atake	AC6-FL10	N/A	N/A
А	Card	N/A	N/A	N/A	N/A



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6.2 SETUP CONFIGURATION OF EUT



6.3 TEST PROGRAM

This EUT uses "Tera term v4.73" software and setup command to set the frequency, modulation, and power to allow the sample to continuously transmit.



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7. FCC PART 15.225 REQUIREMENTS & RSS-210 REQUIREMENTS

7.1 OCCUPIED BANDWIDTH(99%) AND 20 dB BANDWIDTH

TEST CONFIGURATION

Refer to section 6.2.

TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW & VBW (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth (VBW) shall not be smaller than three times the RBW value.
- 4. Record the max. reading.

TEST RESULTS

Compliance

Temperature:	22 ~ 22.5 ℃	Tested by:	Marco Chan
Humidity:	54 ~ 57% RH	Test Date:	June 25 ~ 26, 2024

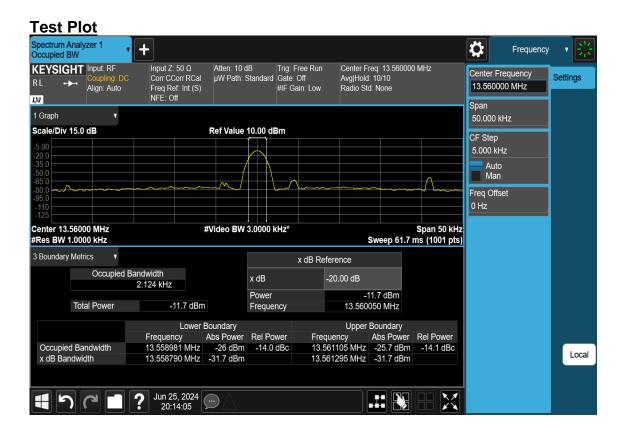


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Test Condition	Frequency(MHz)	Occupied Bandwidth 99% (kHz)	20 dB Bandwidth (kHz)
NFC	13.56	2.124	2.505

Note

Because the measured signal adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice ~ three the RBW.





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7.2 FUNDAMENTAL AND RADIATED EMISSIONS

<u>LIMIT</u>

According to §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) The field strength of any emissions appearing outside of the 13.110 14.010 MHz and shall not exceed the general radiated emission limits in §15.209.

According to §15.225, 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 (μV/m at meter)	Measurement Distance (meter)
0.009 - 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.



According to RSS 210 §B.6

The field strength of any emission shall not exceed the following limits:

- (a) 15.848 mV/m (84 dBµV/m) at30 m, within the band 13.553-13.567 MHz;
- (b) 334 μV/m (50.5 dBμV/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz;
- (c) 106 μV/m (40.5 dBμV/m) at 30 m,within the bands 13.110-13.410 MHz and 13.710-14.010 MHz; and
- (d) RSS-Gen general field strength limits for frequencies outside the band 13.110-14.010 MHz.

Below 30 MHz

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (metres)
9-490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Above 30 MHz

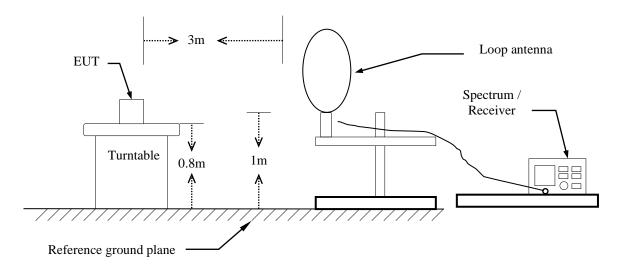
Frequency	Field strength (μV/m at 3 m)
30-88	100
88-216	150
216-960	200
Above 960	500

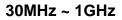


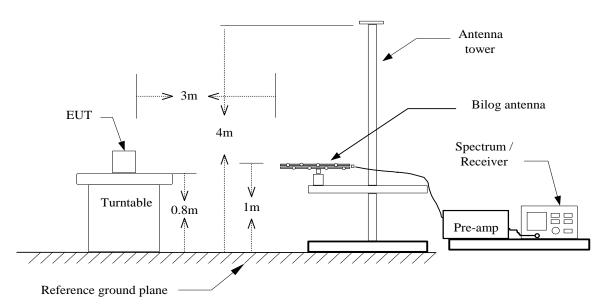
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Test Configuration

9kHz ~ 30MHz









TEST PROCEDURE

For 9kHz ~ 30MHz

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, The lower edge of the loop shall be 1 m above the ground then to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- Set the spectrum analyzer in the following setting as: 9KHz-490KHz : RBW=200Hz / VBW=1kHz / Sweep=AUTO 490KHz-30MHz : RBW=10kHz / VBW=30kHz / Sweep=AUTO
- 6. Repeat above procedures until the measurements for all frequencies are complete.

For 30MHz ~ 1GHz

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving

antenna both horizontal and vertical.

- 6. Set the spectrum analyzer in the following setting as: RBW=100kHz / VBW=300kHz / Sweep=AUTO
- 7. Repeat above procedures until the measurements for all frequencies are complete.

Remark :

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

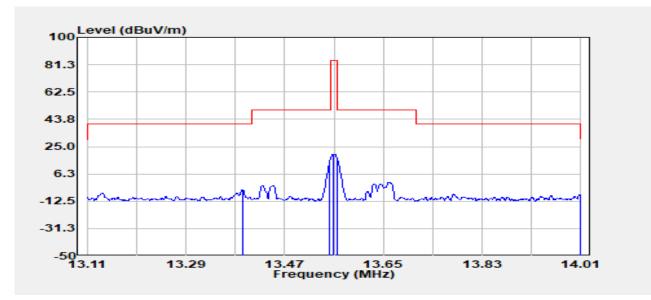
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Project No:	TM-2405000384P
Report No.:	TMWK2405001751KR

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2024-07-08
24.6/56
Horizontal
Ray Li
966A
2 F F



Freq.	Detector Mode	Spectrum Read Level @3m	Factor @3m	Actual FS @3m	Factor @30m&300m	Actual FS @30m	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dB	dBµV/m	dBµV/m	dB
13.394	Peak	18.59	16.68	35.27	-40.00	-4.73	40.51	-45.23
13.553	Peak	38.71	16.65	55.36	-40.00	15.36	50.47	-35.11
13.560	Peak	43.21	16.65	59.86	-40.00	19.86	84.00	-64.14
13.567	Peak	39.81	16.65	56.46	-40.00	16.46	50.47	-34.01
14.009	Peak	15.93	16.57	32.50	-40.00	-7.50	40.51	-48.01
Romark								

Remark:

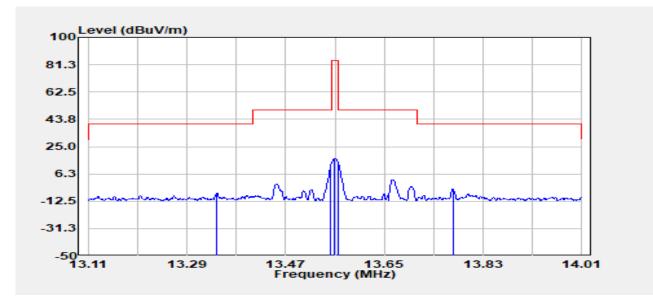
- 1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Margin (dB) = Result (dBuV/m) Limit (dBuV/m).
- 4. Result=Read level+Factor@3m-Distance factor
- 5. Distance factor=40log(30m/3m)
- 6. Factor=antenna factor+cable loss



Project No:	TM-2405000384P
Report No.:	TMWK2405001751KR

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Project No	:TM-2405000384P	Test Date	:2024-07-08
Operation Band	:NFC	Temp./Humi.	:24.6/56
Frequency	:13.56 MHz	Antenna Pol.	:Vertical
Operation Mode	:Main	Engineer	:Ray Li
EUT Pol	:E1	Test Chamber	: 966A
Setting	:Default		



Freq.	Detector Mode	Spectrum Read Level @3m	Factor @3m	Actual FS @3m	Factor @30m&300m	Actual FS @30m	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dB	dBµV/m	dBµV/m	dB
13.345	Peak	16.27	16.69	32.95	-40.00	-7.05	40.51	-47.55
13.553	Peak	35.58	16.65	52.23	-40.00	12.23	50.47	-38.24
13.560	Peak	40.14	16.65	56.79	-40.00	16.79	84.00	-67.21
13.567	Peak	36.77	16.65	53.42	-40.00	13.42	50.47	-37.05
13.775	Peak	19.00	16.61	35.61	-40.00	-4.39	40.51	-44.90
Pomark								

Remark:

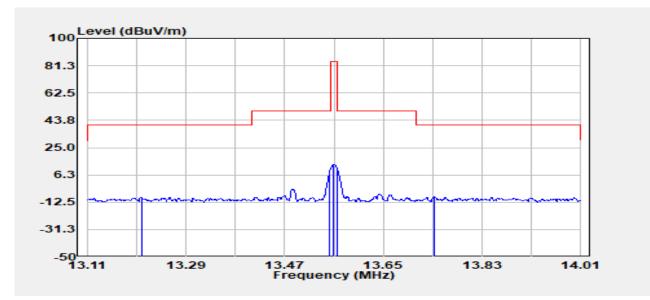
- 1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Margin (dB) = Result (dBuV/m) Limit (dBuV/m).
- 4. Result=Read level+Factor@3m-Distance factor
- 5. Distance factor=40log(30m/3m)
- 6. Factor=antenna factor+cable loss



Project No:	TM-2405000384P
Report No.:	TMWK2405001751KR

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Project No	:TM-2405000384P	Test Date	:2024-07-09
Operation Band	:NFC	Temp./Humi.	:24.6/56
Frequency	:13.56 MHz	Antenna Pol.	:Vertical
Operation Mode	:Main	Engineer	:Ray Li
EUT Pol	:E1	Test Chamber	: 966A
Setting	:Default		



Freq.	Detector Mode	Spectrum Read Level @3m	Factor @3m	Actual FS @3m	Factor @30m&300m	Actual FS @30m	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dB	dBµV/m	dBµV/m	dB
13.209	Peak	14.13	16.71	30.84	-40.00	-9.16	40.51	-49.67
13.553	Peak	32.30	16.65	48.95	-40.00	8.95	50.47	-41.52
13.560	Peak	36.89	16.65	53.54	-40.00	13.54	84.00	-70.46
13.567	Peak	33.37	16.65	50.02	-40.00	10.02	50.47	-40.45
13.743	Peak	14.56	16.61	31.17	-40.00	-8.83	40.51	-49.34
Romark								

Remark:

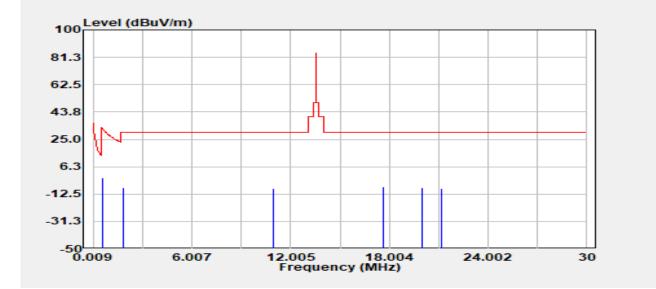
- 1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Margin (dB) = Result (dBuV/m) Limit (dBuV/m).
- 4. Result=Read level+Factor@3m-Distance factor
- 5. Distance factor=40log(30m/3m)
- 6. Factor=antenna factor+cable loss



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9kHz ~ 30MHz

Project No	:TM-2405000384P	Test Date	:2024-07-09
Operation Band	:NFC	Temp./Humi.	:24.6/56
Frequency	:13.56 MHz	Antenna Pol.	:Horizontal
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol Setting	:E1 :Default	Test Chamber	: 966A



Freq.	Detector Mode	Spectrum Read Level @3m	Factor @3m	Actual FS @3m	Factor @30m&300m	Actual FS @30m&300m	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dB	dBµV/m	dBµV/m	dB
0.604	Peak	24.13	14.51	38.65	-40.00	-1.35	31.99	-33.34
1.834	Peak	17.33	14.81	32.14	-40.00	-7.86	29.54	-37.40
10.920	Peak	14.41	17.09	31.51	-40.00	-8.49	29.54	-38.03
17.660	Peak	14.87	17.59	32.46	-40.00	-7.54	29.54	-37.08
19.982	Peak	14.17	17.46	31.64	-40.00	-8.36	29.54	-37.90
21.135	Peak	14.53	17.02	31.55	-40.00	-8.45	29.54	-37.99
Domork	-							

Remark:

1. 9kHz to 490kHz Limit(@3m) = 2400(F/kHz)

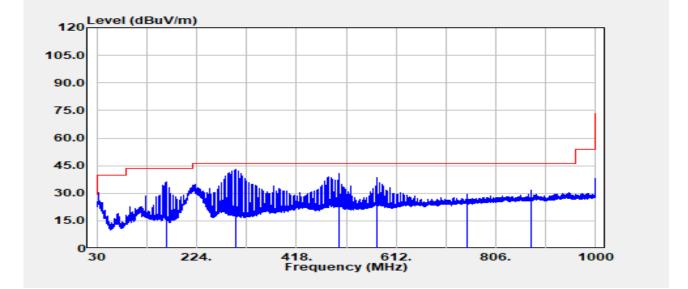
- 490kHz to 1.705MHz Limit (@3m) = 2400(F/kHz)
 - 1.705MHz to 30MHz Limit (@3m) = 29.54
- 2. Distance factor=40log(300m/3m)@9-490kHz ; 40log(30m/3m)@490kHz-30MHz
- 3. Result=Read level+Factor@3m-Distance factor



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30MHz ~ 1GHz

:TM-2405000384P :NFC :13.56 MHz :TX :E1 :Default	Test Date Temp./Humi. Antenna Pol. Engineer Test Chamber	:2024-09-06 :24.6/57 :VERTICAL :Tony Chao : 966A
Default		
	:NFC :13.56 MHz :TX :E1	:NFCTemp./Humi.:13.56 MHzAntenna Pol.:TXEngineer:E1Test Chamber



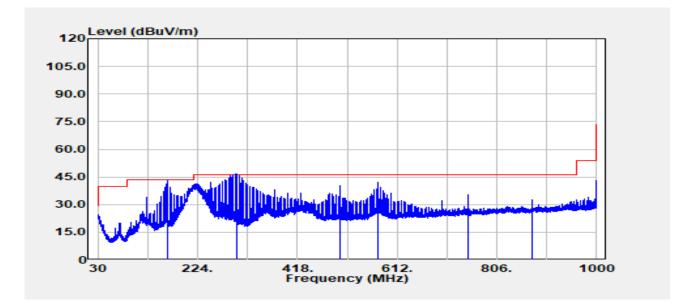
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBµV	Factor dB	Actual FS dBµV/m	Limit dBµV/m	Margin dB
405.00	Deal	47.00	44 50	00.40	40.50	7.00
165.92	Peak	47.68	-11.50	36.18	43.50	-7.32
301.12	Peak	52.11	-9.31	42.80	46.00	-3.20
499.97	Peak	44.95	-4.40	40.55	46.00	-5.45
575.02	Peak	41.57	-3.19	38.38	46.00	-7.62
749.98	Peak	29.61	-0.25	29.36	46.00	-16.64
874.99	Peak	30.01	1.50	31.51	46.00	-14.49



Project No	:TM-2405000384P
Operation Band	:NFC
Frequency	:13.56 MHz
Operation Mode	:TX
EUT Pol	:E1
Setting	:Default

Test Date Temp./Humi. Antenna Pol. Engineer Test Chamber Page: 26 / 35 Rev.: 02

:2024-09-06 :24.6/57 :HORIZONTAL :Tony Chao : 966A



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
165.92	Peak	54.35	-11.50	42.85	43.50	-0.65
301.12	QP	54.90	-9.31	45.59	46.00	-0.41
499.97	Peak	44.84	-4.40	40.44	46.00	-5.56
575.02	Peak	45.46	-3.19	42.27	46.00	-3.73
749.98	Peak	35.61	-0.25	35.36	46.00	-10.64
874.99	Peak	31.30	1.50	32.80	46.00	-13.20



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7.3 FREQUENCY STABILITY

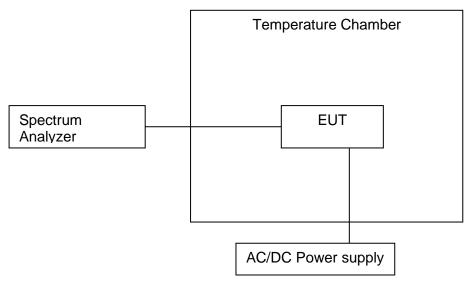
<u>LIMIT</u>

According to §15.225(e) and RSS-210, B.6,

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

Test Configuration

Temperature and Voltage Measurement (under normal and extreme test conditions)



TEST PROCEDURE

- 1. Turn the EUT off, and place it inside the environmental temperature chamber.
- 2. Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
- 3. Set the spectrum analyzer as RBW=1kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
- 4. Turn the EUT on and record the operating frequency at startup and two, five, and ten minutes after the EUT is energized.
- 5. Switch off the EUT and Lower the chamber temperature by not more than 10 °C and allow the temperature inside the chamber to stabilize.
- 6. Mark the peak frequency and measure the frequency tolerance using frequency counter function.
- 7. Repeat step 4 through step 6 down to the specified temperature.



TEST RESULTS

Compliance

Temperature:	22 ~ 22.5 ℃	Tested by:	Marco Chan
Humidity:	54 ~ 57% RH	Test Date:	June 25 ~ 26, 2024

TEST DATA

Startup					
A. Temperature Va	ariation				
Power Supply	Environment	Frequency			
Vdc	Temperature ($^{\circ}C$)	(MHz)	Delta (kHz)	Limit (kHz)	
120	-20	13.5600428	0.04280	+/- 1.356	
120	-10	13.5600446	0.04460	+/- 1.356	
120	0	13.5600492	0.04920	+/- 1.356	
120	10	13.5600392	0.03920	+/- 1.356	
120	20	13.5600430	0.04300	+/- 1.356	
120	30	13.5600357	0.03570	+/- 1.356	
120	40	13.5600520	0.05200	+/- 1.356	
120	50	13.5600384	0.03840	+/- 1.356	
B. Supply Voltage	Variation				
Power Supply	Environment	Frequency			
Vdc	Temperature ($^{\circ}C$)	(MHz)	Delta (kHz)	Limit (kHz)	
138	20	13.5600417	0.04170	+/- 1.356	
120	20	13.5600430	0.04300	+/- 1.356	
102	20	13.5600499	0.04990	+/- 1.356	

Note: Extreme temperatures are declared by the manufacturer

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Report No.:	TMWK2405001751KR

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2 minutes				
A. Temperature Va	ariation			
Power Supply	Environment	Frequency		Limit (Idua)
Vdc	Temperature (°C)	(MHz)	Delta (kHz)	Limit (kHz)
120	-20	13.5600398	0.03980	+/- 1.356
120	-10	13.5600432	0.04320	+/- 1.356
120	0	13.5600493	0.04930	+/- 1.356
120	10	13.5600488	0.04880	+/- 1.356
120	20	13.5600333	0.03330	+/- 1.356
120	30	13.5600337	0.03370	+/- 1.356
120	40	13.5600448	0.04480	+/- 1.356
120	50	13.5600330	0.03300	+/- 1.356
B. Supply Voltage	Variation		·	
Power Supply	Environment	Frequency		Limit (kHa)
Vdc	Temperature (°C)	(MHz)	Delta (kHz)	Limit (kHz)
138	20	13.560040	0.04000	+/- 1.356
120	20	13.5600333	0.03330	+/- 1.356
102	20	13.5600453	0.04530	+/- 1.356

Note: Extreme temperatures are declared by the manufacturer

5 minutes				
A. Temperature Va	ariation			
Power Supply	Environment	Frequency		
Vdc	Temperature (°C)	(MHz)	Delta (kHz)	Limit (kHz)
120	-20	13.5600520	0.05200	+/- 1.356
120	-10	13.5600420	0.04200	+/- 1.356
120	0	13.5600344	0.03440	+/- 1.356
120	10	13.5600469	0.04690	+/- 1.356
120	20	13.5600484	0.04840	+/- 1.356
120	30	13.5600351	0.03510	+/- 1.356
120	40	13.5600492	0.04920	+/- 1.356
120	50	13.5600493	0.04930	+/- 1.356
B. Supply Voltage	Variation			
Power Supply	Environment	Frequency		Lineit (Id Im)
Vdc	Temperature (° \mathbb{C})	(MHz)	Delta (kHz)	Limit (kHz)
138	20	13.5600398	0.03980	+/- 1.356
120	20	13.5600484	0.04840	+/- 1.356
102	20	13.5600449	0.04490	+/- 1.356

Note: Extreme temperatures are declared by the manufacturer



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10 minutes				
A. Temperature Va	ariation			
Power Supply	Environment	Frequency		
Vdc	Temperature (°C)	(MHz)	Delta (kHz)	Limit (kHz)
120	-20	13.5600385	0.03850	+/- 1.356
120	-10	13.5600451	0.04510	+/- 1.356
120	0	13.5600482	0.04820	+/- 1.356
120	10	13.5600343	0.03430	+/- 1.356
120	20	13.5600445	0.04450	+/- 1.356
120	30	13.5600486	0.04860	+/- 1.356
120	40	13.5600426	0.04260	+/- 1.356
120	50	13.5600418	0.04180	+/- 1.356
B. Supply Voltage	Variation			
Power Supply	Environment	Frequency		
Vdc	Temperature (°C)	(MHz)	Delta (kHz)	Limit (kHz)
138	20	13.5600468	0.04680	+/- 1.356
120	20	13.5600445	0.04450	+/- 1.356
102	20	13.5600416	0.04160	+/- 1.356

Note: Extreme temperatures are declared by the manufacturer



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7.4 AC POWERLINE CONDUCTED EMISSIONS

<u>LIMIT</u>

According to §15.207(a) and RSS-Gen §8.8 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 or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range	Lim (dBı	
(MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked and Average measurement records.



Project No:	TM-2405000384P
Report No.:	TMWK2405001751KR

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Project No Operation Mode Test Chamber Probe Note	: TM-24050 : NFC : Conduction : LINE :		Test D Temp. Engine Test V	/Humi. eer	: 2024-0 : 23.4°C : Ben Ya : AC 120	/ 54% ing
80 Level (dBuV)						
70						
60						
50						
40					ar till P ituna - sa 12	ti
30	1					
20	MAN HANNALANA	NMU HARAN	www.htt Why provide and	www.www.hawhh	MMMMM MALE	
0.15 0.2	0.5	1 2 Frequen	cy (MHz)	5 10	20	30
Frog	Detector	Spectrum	Factor	Actual	Limit	Morgin

	Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin	
	MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB	
_	0.178	QP	40.77	0.28	41.05	64.60	-23.55	
	0.178	Average	27.07	0.28	27.35	54.60	-27.25	
	0.229	QP	33.63	0.39	34.02	62.49	-28.47	
	0.229	Average	20.38	0.39	20.77	52.49	-31.72	
	0.268	QP	31.28	0.39	31.67	61.17	-29.50	
	0.268	Average	19.89	0.39	20.28	51.17	-30.89	
	0.444	QP	37.23	0.38	37.61	56.99	-19.38	
	0.444	Average	35.32	0.38	35.70	46.99	-11.29	
	13.417	QP	40.44	0.41	40.85	60.00	-19.15	
	13.417	Average	40.34	0.41	40.75	50.00	-9.25	
	20.915	QP	43.72	0.49	44.21	60.00	-15.79	
	20.915	Average	43.58	0.49	44.07	50.00	-5.93	

Note: 1. Actual FS= Spectrum Read Level + Factor Note: 2. Margin= Actual FS - Limit



Project No:	TM-2405000384P
Report No.:	TMWK2405001751KR

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Project No Operation Mode Test Chamber Probe Note	: TM-2405000384P : NFC : Conduction : NEUTRAL :		Te Er	Test Date Temp./Humi. Engineer Test Voltage			: 2024-07-10 : 23.4°C / 54% : Ben Yang : AC 120V/60Hz	
80 Level (dBuV)								
70								
60								
50								
40						P 12		
30					tstk-			
20	AN ANA A	parry that the the	Muranin	all the stand and	Ant ^{ra} ndi Makada	Wint, Albitic I		
10								
0 <mark>.15 0.2</mark>	0.5	1 Frequ	2 ency (MHz)	5	10	20	30	
Freq.	Detector Mode	Spectrum Read Level	Facto	or Act		Limit	Margin	

Freq.	Mode	Read Level	Factor	FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.153	QP	43.63	0.12	43.75	65.82	-22.07
0.153	Average	31.93	0.12	32.05	55.82	-23.77
0.166	QP	42.48	0.19	42.67	65.16	-22.49
0.166	Average	30.27	0.19	30.46	55.16	-24.70
0.221	QP	35.26	0.36	35.62	62.78	-27.16
0.221	Average	25.27	0.36	25.63	52.78	-27.15
0.445	QP	38.83	0.35	39.18	56.96	-17.78
0.445	Average	35.75	0.35	36.10	46.96	-10.86
13.813	QP	40.42	0.38	40.80	60.00	-19.20
13.813	Average	40.40	0.38	40.78	50.00	-9.22
20.522	QP	43.28	0.45	43.73	60.00	-16.27
20.522	Average	43.21	0.45	43.66	50.00	-6.34

Note: 1. Actual FS= Spectrum Read Level + Factor Note: 2. Margin= Actual FS - Limit

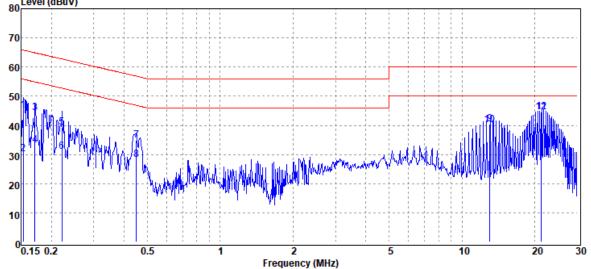


Project No: Report No.:	TM-2405000384P TMWK2405001751KR				
Project No Operation Mod Test Chamber Probe Note		Test Date Temp./Humi. Engineer Test Voltage			
80					
70					

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: 2024-07-10 : 23.4°C / 54% : Ben Yang

: AC 230V/60Hz



Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.153	QP	44.88	0.14	45.02	65.81	-20.79
0.153	Average	30.10	0.14	30.24	55.81	-25.57
0.172	QP	44.15	0.25	44.40	64.89	-20.49
0.172	Average	33.08	0.25	33.33	54.89	-21.56
0.221	QP	38.90	0.39	39.29	62.77	-23.48
0.221	Average	30.62	0.39	31.01	52.77	-21.76
0.449	QP	34.60	0.38	34.98	56.89	-21.91
0.449	Average	27.85	0.38	28.23	46.89	-18.66
13.020	QP	39.91	0.40	40.31	60.00	-19.69
13.020	Average	39.77	0.40	40.17	50.00	-9.83
21.308	QP	44.08	0.51	44.59	60.00	-15.41
21.308	Average	44.00	0.51	44.51	50.00	-5.49

Note: 1. Actual FS= Spectrum Read Level + Factor Note: 2. Margin= Actual FS - Limit



Project No:	TM-2405000384P
Report No.:	TMWK2405001751KR

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Project No Operation Mode Test Chamber Probe Note	: TM-2405000384P : NFC : Conduction : NEUTRAL :	Test Date Temp./Humi. Engineer Test Voltage	: 2024-07-10 : 23.4°C / 54% : Ben Yang : AC 230V/60Hz
80 Level (dBuV) 70			
50 40	1 70		
30 2 4 20 10	ary to	Helling an	
000.15 0.2	0.5 1 Freq	25 uency (MHz)	10 20 30

Freq.	Detector Mode	Spectrum Read Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV	dBµV	dB
0.160	QP	43.50	0.16	43.66	65.46	-21.80
0.160	Average	23.36	0.16	23.52	55.46	-31.94
0.186	QP	40.22	0.30	40.52	64.22	-23.70
0.186	Average	22.67	0.30	22.97	54.22	-31.25
0.245	QP	36.75	0.36	37.11	61.92	-24.81
0.245	Average	29.62	0.36	29.98	51.92	-21.94
0.447	QP	35.44	0.35	35.79	56.93	-21.14
0.447	Average	28.79	0.35	29.14	46.93	-17.79
13.814	QP	40.36	0.38	40.74	60.00	-19.26
13.814	Average	40.31	0.38	40.69	50.00	-9.31
21.705	QP	43.71	0.47	44.18	60.00	-15.82
21.705	Average	43.56	0.47	44.03	50.00	-5.97

Note: 1. Actual FS= Spectrum Read Level + Factor Note: 2. Margin= Actual FS - Limit

- End of Test Report -