

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart B, Class B

ANSI C63.4-2014 ANSI C63.4a-2017

Report No.: FDBEMI-WTW-P23090647F

Product: Electronic Display Device

FCC ID.: NOIKBN365B

Brand: Rakuten kobo

Model No.: N365B Received Date: 2025/2/28

Test Date: 2025/3/6 ~ 2025/3/10

Issued Date: 2025/6/3

Applicant: NETRONIX, INC.

Address: No. 945, Boai St., Jubei City, Hsin-Chu, 30265, Taiwan

Factory: (1) NETRONIX, INC.

(2) NTX Electronics YANGZHOU CO., LTD.

Address: (1) No. 945, Boai St., Jubei City, Hsin-Chu, 30265, Taiwan

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Hsin Chu Laboratory

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Test Location: No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307,

Taiwan

FCC Registration /

Designation Number: 960022 / TW1058

Approved by:	Knild	, Date:	2025/6/3	
	Ken Lu / Manager			

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Prepared by: Claire Kuan / Specialist

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Release Control Record

Issue No.	Description	Date Issued
FDBEMI-WTW-P23090647F	Original release.	2025/6/3

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1 Certificate

Product: Electronic Display Device

Brand: Rakuten kobo

Test Model: N365B

Sample Status: Engineering sample

Applicant: NETRONIX, INC.

Test Date: 2025/3/6 ~ 2025/3/10

Standard: 47 CFR FCC Part 15, Subpart B, Class B

ANSI C63.4–2014 ANSI C63.4a–2017

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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2 Summary of Test Results

The test items that the EUT need to perform in accordance with its interfaces, evaluated functions, are as follows:

Standard / Clause	Test Item	Result	Remark
FCC Part 15.107	Conducted Emissions from Power Ports	Pacc	Minimum passing Class B margin is -17.51 dB at 0.37000 MHz
FCC Part 15.109	Radiated Emissions up to 1 GHz	Pagg	Minimum passing Class B margin is -7.85 dB at 240.01 MHz
FCC Part 15.109	Radiated Emissions above 1 GHz	Pagg	Minimum passing Class B margin is -8.05 dB at 16837.77 MHz

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)	Maximum allowable uncertainty (±)
Conducted Emissions from Power Ports	150 kHz ~ 30 MHz	1.92 dB	3.4 dB (<i>U</i> cispr)
Radiated Emissions up to 1 GHz	30 MHz ~ 1 GHz	5.8 dB	6.3 dB (<i>U</i> _{cispr})
	1 GHz ~ 6 GHz	4.85 dB	5.2 dB (<i>U</i> cispr)
Radiated Emissions above 1 GHz	6 GHz ~ 18 GHz	4.66 dB	5.5 dB (<i>U</i> cispr)
	18 GHz ~ 40 GHz	5.07 dB	-

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

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3 General Information

3.1 Description of EUT

Product	Electronic Display Device
Brand	Rakuten kobo
Test Model	N365B
Sample Status	Engineering sample
Power Supply Rating	3.87 Vdc from battery 5 Vdc form USB interface

Note:

- 1. This is a supplementary report of Report No.: FDBEMI-WTW-P23090647. The differences between them are as below information:
 - The battery capacity is changed to 1900mAh.
 - ◆ Layout/PCBA have changed; and eMMC + battery connector related components have changed, but the main components are the same.
 - ♦ The thickness of the housing bottom cover has been changed from 1.4mm to 1.2mm
 - ◆ Change model name.
- 2. According to above conditions, all test items needs to be performed. And all data are verified to meet the requirements.
- 3. The EUT must be supplied with a battery as the following table:

Newly	,		
Item	Brand	Model	Specification
Battery	EVE Energy Co., Ltd	K24051900-297777	Power Rating: 3.87 Vdc, 7.36Wh, 1900mAh

4. The EUT uses following accessories.

Original							
Item	Brand	Model	Supplier Model	Color	Specification	Material	TID number
1st source USB Cable	LUXSHARE-ICT	LB93US005-1H	-	Black	Shielded, 1.0M, without core	PVC	-
Newly							
2nd source USB Cable	Yih Fone	SH-0846	YF-USB2-A-C-1M(K)	Black	Shielded, 1.0M, without core	TPE	12574

5. The EUT will be supported with the following eMMC and DRAM LP-DDR4 source.

<u> </u>		2.11.004.00.
Item.	Brand	Model
1st source eMMC	Phison	PTE7A0YJ-16GE
2nd source eMMC	Kingston	EMMC16G-PJ30-GA02
3rd source eMMC	FORESEE	FEMDNN016G-A3A55
1st source DRAM LP-DDR4	Nanya	NT6AN256M16AV-J2
2nd source DRAM LP-DDR4	Leahkinn	LTHS0005GS4-ZPI1
3rd source DRAM LP-DDR4	Micron	MT53E256M16D1DS-046

- 6. There are Bluetooth and WLAN (2.4 GHz & 5 GHz) technology used for the EUT.
- 7. Simultaneously transmission combination.

Combination	Technology		
1	WLAN (2.4 GHz)	Bluetooth	
2	WLAN (5 GHz)	Bluetooth	

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3.2 Primary Clock Frequencies of Internal Source

The highest frequency generated or used within the EUT or on which the EUT operates or tunes is 5.85 GHz, provided by NETRONIX, INC., for detailed internal source, please refer to the manufacturer's specifications.

3.3 Features of EUT

The tests reported herein were performed according to the method specified by NETRONIX, INC., for detailed feature description, please refer to the manufacturer's specifications or user's manual.

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3.4 Operating Modes of EUT and Determination of Worst Case Operating Mode

The EUT has been pre-tested under following test modes.

	g		
	Test Condition		
Mode	Radiated Emissions up to 1 GHz		
1	USB Mode SH-0846(TPE) + Input Power(5 Vdc from host)		
2	USB Mode SH-0837(TPE) + Input Power(5 Vdc from host)		
3	WiFi 2.4G+BT + Input Power(3.87 Vdc from battery)		
4	4 WiFi 5G+BT + Input Power(3.87 Vdc from battery)		
Note: The	Note: The worst case is mode 1 shown in bold.		

Test modes are presented in the report as below.

	Test Condition
Mode	Conducted Emissions from Power Ports
Α	USB Mode SH-0846(TPE) + Input Power(5 Vdc from host)
Mode	Radiated Emissions up to 1 GHz
Α	USB Mode SH-0846(TPE) + Input Power(5 Vdc from host)
Mode	Radiated Emissions above 1 GHz
Α	USB Mode SH-0846(TPE) + Input Power(5 Vdc from host)

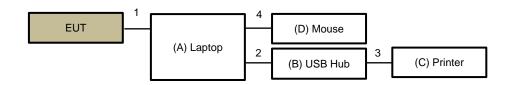
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3.5 Test Program Used and Operation Descriptions

- a. Turn on the power of all equipment.
- b. EUT is charging from support unit A (Laptop) via USB-A to C cable.
- c. Support unit A (Laptop) reads and writes messages from EUT via USB-A to C cable.
- d. Support unit A (Laptop) plays "H" pattern messages to itself.

3.6 Connection Diagram of EUT and Peripheral Devices



3.7 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α	Laptop	DELL	G15 5525	3C92T A00	N/A	Provided by Lab
В	USB Hub	ESENSE	01-ELS647	N/A	N/A	Provided by Lab
С	Printer	EPSON	LQ-300+II	G88Y074085	DoC	Provided by Lab
D	Mouse	Logitech	M-U0026	810-002182_008	DoC	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB-A to C	1	1	Yes	0	Provided by Applicant
2	USB-A	1	0.15	Yes	0	Provided by Lab
3	USB-A to B	1	1.8	Yes	0	Provided by Lab
4	USB-A	1	1.8	Yes	0	Provided by Lab

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4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Conducted Emissions from Power Ports

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	N/A	EMC-03 EMC-05	2024/9/25 2024/4/19	2025/9/24 2025/4/18
EMI Test Receiver R&S	ESR3	102982	2024/6/4	2025/6/3
Fixed attenuator MVE	MVE2530-10	MVE2530-10_003	2024/6/30	2025/6/29
LISN R&S	ENV216	100072	2024/7/9	2025/7/8
LISN	NNLK 8121	0809	2024/3/13	2025/3/12
Schwarzbeck	NSLK 8127	8127-522	2024/9/9	2025/9/8
RF Coaxial Cable JYEBAO	5D-FB	CONCAB-002	2024/6/30	2025/6/29
Software BV	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A

Notes:

- 1. The test was performed in HC Conduction 3.
- 2. The VCCI Shielded room C Registration No. is C-13611.
- 3. Tested Date: 2025/3/6

4.2 Radiated Emissions up to 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table CT	N/A	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-360	2024/10/9	2025/10/8
Fixed Attenuator MVE	MVE2252-05	MVE2252-05-001	2024/5/11	2025/5/10
MXE EMI Receiver Agilent	N9038A	MY51210105	2024/6/12	2025/6/11
Preamplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-03	2024/5/11	2025/5/10
RF Coaxial Cable	RF-141	CHGCAB-004	2024/5/11	2025/5/10
RF Coaxial Cable	8D	CHGCAB-005	2024/5/11	2025/5/10
PEWC	8D-FB	CHGCAB-001-2	2024/5/11	2025/5/10
Software BV	ADT_Radiated_V8.8.09	N/A	N/A	N/A

Notes:

- 1. The test was performed in HC 966 chamber 1. The test site validated date: 2024/5/11 (NSA)
- 2. The VCCI Site Registration No. is R-20009.
- 3. Tested Date: 2025/3/10

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Radiated Emissions above 1 GHz 4.3

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table CT	N/A	N/A	N/A	N/A
Fix tool for Boresight BV	BAF-01	5	N/A	N/A
Horn Antenna FT-RF	HA-07M18G-NF	0000320091110	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	01168	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY51210105	2024/6/12	2025/6/11
Preamplifier Agilent	8449B	3008A02578	2024/8/10	2025/8/9
Preamplifier EMCI	EMC118A45SE	980817	2024/8/10	2025/8/9
Preamplifier SPACEK LABS	SLKKa-48-6	9K16	2024/8/10	2025/8/9
PXA Signal Analyzer Keysight	N9030B	MY57141885	2024/6/5	2025/6/4
	EMC101G-KM-KM-1200	210505	2025/1/24	2026/1/23
RF Coaxial Cable	EMC104-SM-SM-2000	181208	2024/8/10	2025/8/9
EMCI	EMC104-SM-SM-6000	181209	2024/8/10	2025/8/9
	EMC104-SM-SM-8500	181211	2024/8/10	2025/8/9
RF Coaxial Cable EMEC	EMC101G-KM-KM-3600	230805	2024/8/15	2025/8/14
Software BV	ADT_Radiated_V8.8.09	N/A	N/A	N/A

Notes:

- The test was performed in HC 966 chamber 1. The test site validated date: 2024/8/10 (VSWR)
 The VCCI Site Registration No. is G-10137.
- 3. Tested Date: 2025/3/10

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5 Limits of Test Items

5.1 Conducted Emissions from Power Ports

Fraguency (MHz)	Class A	(dBuV)	Class B (dBuV)		
Frequency (MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66 - 56	56 - 46	
0.50 - 5.0	73	60	56	46	
5.0 - 30.0	73	60	60	50	

Notes: 1. The lower limit shall apply at the transition frequencies.

5.2 Radiated Emissions up to 1 GHz

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Enthosions radiated satisfactor and opening barries, shall be according to the general radiated infine as following.								
Radiated Emissions Limits at 10 meters (dBµV/m)								
Frequencies (MHz)	FCC 15B, Class A	FCC 15B, Class B	CISPR 22, Class A	CISPR 22, Class B				
30-88	39.1	29.5						
88-216	43.5	33.1	40	30				
216-230	46.4	25.6						
230-960	40.4	35.6	47	27				
960-1000	49.5	43.5	47	37				

Radiated Emissions Limits at 3 meters (dBμV/m)								
Frequencies (MHz)	FCC 15B, Class A	FCC 15B, Class B	CISPR 22, Class A	CISPR 22, Class B				
30-88	49.5	40.0						
88-216	54.0	43.5	50.5	40.5				
216-230	216-230							
230-960	56.9	46.0	57.5	47.5				
960-1000	60.0	54.0	07.5	47.5				

Notes: 1. The lower limit shall apply at the transition frequencies.

5.3 Radiated Emissions above 1 GHz

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower

Radiated Emissions Limits at 3 meters (dBµV/m)						
Frequency range Class A Class B						
Above 1GHz	Avg: 60 Peak: 80	Avg: 54 Peak: 74				

Notes: 1. These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test.

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^{2.} The limit decreases linearly with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

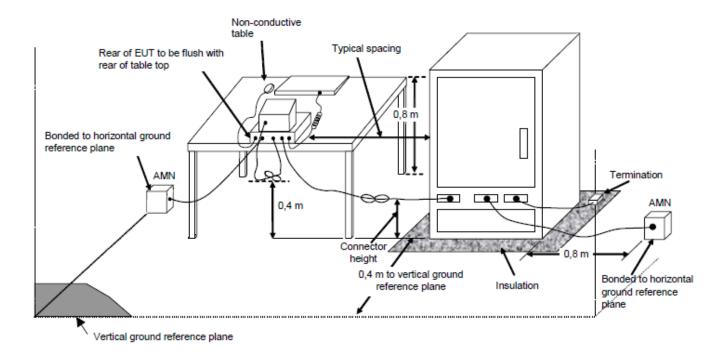


6 Test Arrangements

6.1 Conducted Emissions from Power Ports

- a. For the table-top EUT is placed on a 0.8 meter insulation table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The EUT is placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units are connected to the power mains through another LISN. They provide coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The test results of conducted emissions at mains ports are recorded of six worst margins for quasi-peak (mandatory) [and average (if necessary)] values against the limits at frequencies of interest unless the margin is 20 dB or greater.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

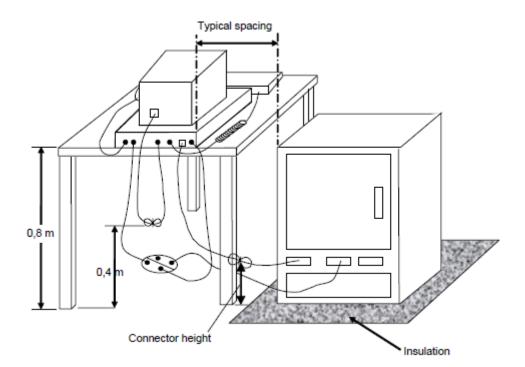
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6.2 Radiated Emissions up to 1 GHz

- a. For the table-top EUT is placed on a 0.8 meter to the top of rotating table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The rotating table is rotated 360 degrees to determine the position of the highest radiation. If the equipment requires a dedicated ground connection, this shall be provided and bonded to the RGP.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is up to 1 GHz.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency up to 1GHz.



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

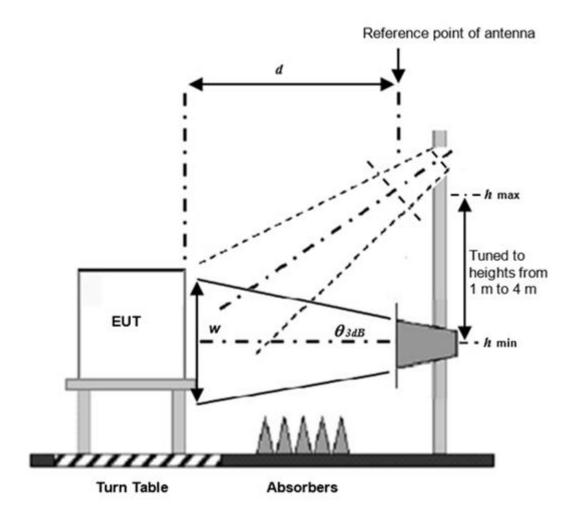
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6.3 Radiated Emissions above 1 GHz

- a. For the table-top EUT is placed on a 0.8 meter to the top of rotating table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The rotating table is rotated 360 degrees to determine the position of the highest radiation. If the equipment requires a dedicated ground connection, this shall be provided and bonded to the RGP.
- b. The EUT was set d = 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The spectrum analyzer system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

Note: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection (PK) at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

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7 Test Results of Test Item

7.1 Conducted Emissions from Power Ports

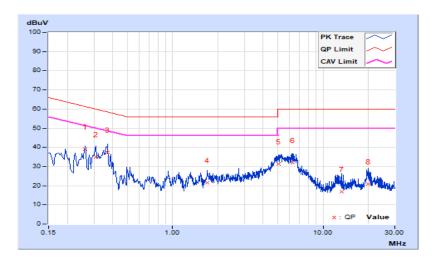
Mode A

Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	5 Vdc from host	Environmental Conditions	25 °C, 75 % RH, 1009.5 mbar
Tested by	Josie Chen		

	Phase Of Power : Line (L)									
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.26200	9.99	29.21	20.02	39.20	30.01	61.37	51.37	-22.17	-21.36
2	0.30874	9.99	24.97	15.44	34.96	25.43	60.00	50.00	-25.04	-24.57
3	0.37000	10.00	27.50	20.99	37.50	30.99	58.50	48.50	-21.00	-17.51
4	1.69800	10.06	11.45	3.25	21.51	13.31	56.00	46.00	-34.49	-32.69
5	5.07000	10.18	21.26	12.82	31.44	23.00	60.00	50.00	-28.56	-27.00
6	6.29400	10.22	21.90	13.58	32.12	23.80	60.00	50.00	-27.88	-26.20
7	13.29800	10.46	6.21	-1.56	16.67	8.90	60.00	50.00	-43.33	-41.10
8	20.06200	10.68	10.09	0.74	20.77	11.42	60.00	50.00	-39.23	-38.58

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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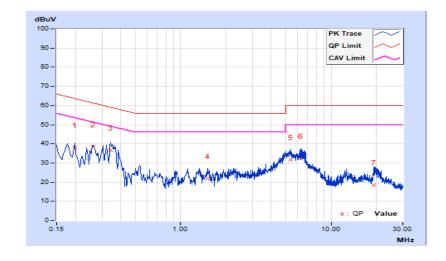
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			VERITAS
Eroguepov Bongo	150 kHz ~ 30 MHz	Detector Function &	Quasi-Peak (QP) /
Frequency Range	130 KHZ ~ 30 WHZ	Resolution Bandwidth	Average (AV), 9 kHz
Input Dower	5 Vdc from host	Environmental	25 °C, 75 % RH, 1009.5 mbar
Input Power	5 vac ironi nost	Conditions	25 C, 75 % KH, 1009.5 IIIbai
Tested by	Josie Chen		

	Phase Of Power : Neutral (N)										
No	Frequency	Correction Factor		Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.19800	9.97	27.92	17.87	37.89	27.84	63.69	53.69	-25.80	-25.85	
2	0.26083	9.97	28.57	19.17	38.54	29.14	61.40	51.40	-22.86	-22.26	
3	0.34200	9.98	26.67	19.32	36.65	29.30	59.15	49.15	-22.50	-19.85	
4	1.52200	10.03	11.90	4.52	21.93	14.55	56.00	46.00	-34.07	-31.45	
5	5.41400	10.16	21.37	13.33	31.53	23.49	60.00	50.00	-28.47	-26.51	
6	6.29000	10.19	22.24	13.83	32.43	24.02	60.00	50.00	-27.57	-25.98	
7	19.28600	10.59	7.92	-0.52	18.51	10.07	60.00	50.00	-41.49	-39.93	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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7.2 Radiated Emissions up to 1 GHz

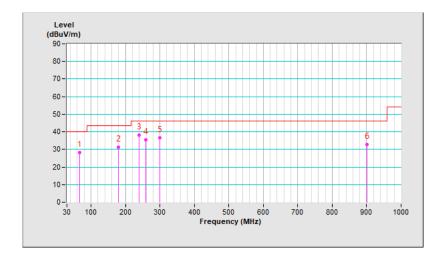
Mode A

Frequency Range	130 MHZ ~ 1 (3HZ	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Input Power	15 Vdc (from host)	Environmental Conditions	25 °C, 75 % RH, 1008.7 mbar
Tested By	Eagle Chen		

	Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	67.25	28.08 QP	40.00	-11.92	3.98 H	199	37.98	-9.90	
2	179.99	31.28 QP	43.50	-12.22	2.02 H	156	40.62	-9.34	
3	240.01	38.15 QP	46.00	-7.85	1.08 H	316	47.34	-9.19	
4	259.05	35.40 QP	46.00	-10.60	1.97 H	38	43.81	-8.41	
5	300.02	36.45 QP	46.00	-9.55	1.02 H	247	43.23	-6.78	
6	900.87	32.67 QP	46.00	-13.33	1.00 H	198	26.94	5.73	

Remarks:

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



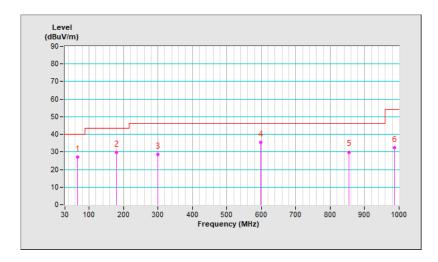
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			VERITAS
Eroguanay Banga	30 MHz ~ 1 GHz	Detector Function &	Quasi-Peak (QP), 120 kHz
Frequency Range	30 MHZ ~ 1 GHZ	Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Innut Dower	E \/da (fram boot)	Environmental	25 °C, 75 % RH, 1008.6 mbar
Input Power	5 Vdc (from host)	Conditions	25 C, 75 % KH, 1006.6 IIIbai
Tested By	Eagle Chen		

	Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	67.05	27.04 QP	40.00	-12.96	1.04 V	1	36.83	-9.79	
2	179.99	29.89 QP	43.50	-13.61	1.07 V	360	39.23	-9.34	
3	300.02	28.54 QP	46.00	-17.46	2.03 V	281	35.32	-6.78	
4	598.58	35.47 QP	46.00	-10.53	1.92 V	286	35.26	0.21	
5	853.89	29.90 QP	46.00	-16.10	1.02 V	177	25.19	4.71	
6	986.32	32.35 QP	54.00	-21.65	3.84 V	231	25.46	6.89	

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



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7.3 Radiated Emissions above 1 GHz

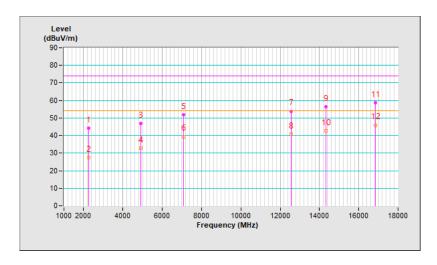
Mode A

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Input Power	5 Vdc (from host)	Environmental Conditions	22 °C, 82 % RH, 1008.1 mbar
Tested By	Eagle Chen		

		Antenn	a Polarity &	Test Distanc	e : Horizonta	al at 3 m		
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2243.27	44.35 PK	74.00	-29.65	1.00 H	274	47.56	-3.21
2	2243.27	27.45 AV	54.00	-26.55	1.00 H	274	30.66	-3.21
3	4908.30	46.92 PK	74.00	-27.08	1.00 H	167	42.64	4.28
4	4908.30	32.76 AV	54.00	-21.24	1.00 H	205	28.48	4.28
5	7072.40	51.85 PK	74.00	-22.15	1.00 H	36	39.83	12.02
6	7072.40	39.45 AV	54.00	-14.55	1.00 H	36	27.43	12.02
7	12564.53	53.95 PK	74.00	-20.05	1.00 H	190	40.71	13.24
8	12564.53	40.86 AV	54.00	-13.14	1.00 H	190	27.62	13.24
9	14336.50	56.53 PK	74.00	-17.47	2.00 H	13	41.22	15.31
10	14336.50	42.64 AV	54.00	-11.36	2.00 H	0	27.33	15.31
11	16837.77	58.84 PK	74.00	-15.16	1.50 H	1	41.18	17.66
12	16837.77	45.95 AV	54.00	-8.05	1.50 H	57	28.29	17.66

Remarks:

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



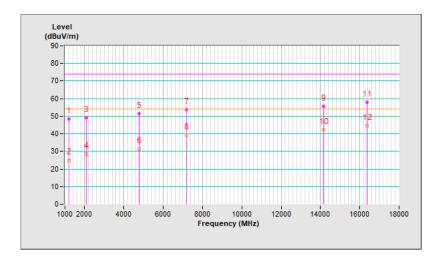
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			VERITAS
Fraguency Banga	1 GHz ~ 18 GHz	Detector Function &	Dock (DK) / Average (A)() 1 MHz
Frequency Range	1 GHZ ~ 16 GHZ	Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Innut Bower	E \/de (from boot)	Environmental	22 °C 92 0/ DH 1009 2 mbor
Input Power	5 Vdc (from host)	Conditions	22 °C, 82 % RH, 1008.3 mbar
Tested By	Eagle Chen		

		Anten	na Polarity 8	k Test Distar	nce : Vertical	at 3 m		
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1196.63	48.33 PK	74.00	-25.67	1.00 V	2	56.46	-8.13
2	1196.63	24.97 AV	54.00	-29.03	1.00 V	1	33.10	-8.13
3	2097.07	49.13 PK	74.00	-24.87	1.00 V	255	52.30	-3.17
4	2097.07	28.67 AV	54.00	-25.33	1.00 V	132	31.84	-3.17
5	4789.87	51.55 PK	74.00	-22.45	2.00 V	360	48.06	3.49
6	4789.87	31.42 AV	54.00	-22.58	2.00 V	341	27.93	3.49
7	7190.83	53.77 PK	74.00	-20.23	1.50 V	1	42.27	11.50
8	7190.83	39.18 AV	54.00	-14.82	1.50 V	47	27.68	11.50
9	14159.13	55.82 PK	74.00	-18.18	1.00 V	158	40.76	15.06
10	14159.13	42.34 AV	54.00	-11.66	1.00 V	158	27.28	15.06
11	16351.57	58.07 PK	74.00	-15.93	2.00 V	77	42.14	15.93
12	16351.57	44.67 AV	54.00	-9.33	2.00 V	15	28.74	15.93

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



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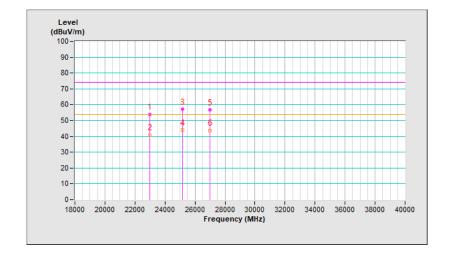
Report No.: FDBEMI-WTW-P23090647F Reference No.: BEMI-WTW-P25020702



			VERITAS	
Fraguency Banga	18 GHz ~ 40 GHz	Detector Function &	Dook (DK) / Average (A) () 4 MHz	
Frequency Range	10 GHZ ~ 40 GHZ	Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz	
Innut Bower	E \/da (fram boot)	Environmental	24 °C 76 0/ DH 1009 2 mbor	
Input Power	5 Vdc (from host)	Conditions	24 °C, 76 % RH, 1008.2 mbar	
Tested By	Eagle Chen			

	Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	23000.60	54.01 PK	74.00	-19.99	2.00 H	257	56.73	-2.72	
2	23000.60	40.78 AV	54.00	-13.22	2.00 H	257	43.50	-2.72	
3	25183.73	57.00 PK	74.00	-17.00	2.00 H	184	55.87	1.13	
4	25183.73	43.87 AV	54.00	-10.13	2.00 H	184	42.74	1.13	
5	26975.27	56.62 PK	74.00	-17.38	1.00 H	257	57.40	-0.78	
6	26975.27	43.84 AV	54.00	-10.16	1.00 H	236	44.62	-0.78	

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



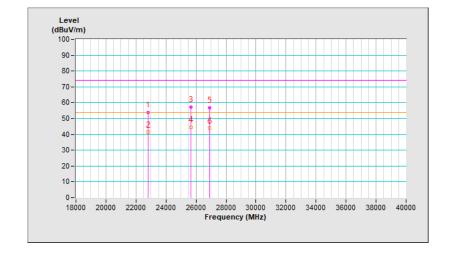
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			VERITAS
Frequency Range	18 GHz ~ 40 GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Input Power	5 Vdc (from host)	Environmental Conditions	24 °C, 76 % RH, 1008.2 mbar
Tested By	Eagle Chen		

Antenna Polarity & Test Distance : Vertical at 3 m											
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)			
1	22812.87	53.75 PK	74.00	-20.25	1.00 V	277	56.05	-2.30			
2	22812.87	41.34 AV	54.00	-12.66	1.00 V	289	43.64	-2.30			
3	25654.53	57.40 PK	74.00	-16.60	1.50 V	142	56.79	0.61			
4	25654.53	44.52 AV	54.00	-9.48	1.50 V	142	43.91	0.61			
5	26928.33	56.87 PK	74.00	-17.13	1.00 V	190	57.56	-0.69			
6	26928.33	43.90 AV	54.00	-10.10	1.00 V	190	44.59	-0.69			

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



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8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

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9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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Email: service.adt@bureauveritas.com. Web Site: http://ee.bureauveritas.com.tw

The address and road map of all our labs can be found in our web site also.

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