

FCC Radio Test Report

FCC ID: 2ABVH-INARI10D1

Report No. Equipment Model Name Brand Name Applicant Address Manufacturer Address Factory Address Radio Function	 BTL-FCCP-1-2310G005 Tablet INARI-D-10-WIG-1 AAVA Aava Mobile Oy Nahkatehtaankatu 2, FI-90130 Oulu, Finland Aava Mobile Oy Nahkatehtaankatu 2, FI-90130 Oulu, Finland Ennoconn (Suzhou) Technology Co.,Ltd BUILDING 1, 299 NANSONG RD, YU SHAN TOWN KUNSHAN 215300 JIANGSU CHINA NFC (13.56 MHz)
FCC Rule Part(s) Measurement Procedure(s)	 FCC CFR Title 47, Part 15, Subpart C (15.225) ANSI C63.10-2013
Date of Receipt Date of Test Issued Date	2023/11/1 2023/11/20 ~ 2023/11/27 2023/12/12

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Eddiel

Eddie Lee, Engineer

Prepared by

Approved by

Jerry Chuang, Supervisor



BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com





Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REVISION HISTORY

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SUMMARY OF TEST RESULTS 1

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	
15.35 15.205 15.209 15.225	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass	
15.225(e)	Frequency Stability	APPENDIX E	Pass	
15.203	Antenna Requirement		Pass	
15.215(c)	20 dB Bandwidth	APPENDIX F	Pass	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.
(2) The report format version is TP.1.1.1.



1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659. The test location(s) used to collect the test data in this report are: No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659) C05 □ CB08 □ CB11 SR10 SR11 \mathbf{X} \mathbf{X} No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659) SR05 No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659) □ C06 ⊠ CB21 □ CB22

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = 2$, providing a level of confidence of approximately **95**%. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
CB21	CIEDD	9 kHz ~ 150 kHz	2.82
(3m)	CISPR	150 kHz ~ 30 MHz	2.58

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB21	1 GHz ~ 6 GHz	5.21
CB21	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test :

Test Item	U,(dB)
Occupied Bandwidth	0.5332
Frequency Stability	0.5333

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	20°C, 45%	AC 120V	Jerry Chuang
Radiated emissions (9KHz-30MHz)	21°C, 58%	AC 120V	Kevin Zhen
Radiated emissions (30MHz TO 1000MHz)	21°C, 58%	AC 120V	Kevin Zhen
Frequency Stability	23.2°C, 43%	AC 120V	Jerry Chuang
20 dB Bandwidth	23.2°C, 43%	AC 120V	Jerry Chuang

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Tablet	
Model Name	lame INARI-D-10-WIG-1	
Brand Name	AAVA	
Model Difference	N/A	
Power Source	1# DC voltage supplied from AC adapter. (support unit). 2# Battery supplied.	
Power Rating	1# I/P: 12V ==== 2A 2# DC 7.7V/4830mAh	
Products Covered	1* Battery: AMME4974	
Operation Frequency	13.56 MHz	
Antenna Designation	LOOP Antenna	
Max H-field strength	73.81 dBuV/m@3m(Peak)	
Test Model	INARI-D-10-WIG-1	
Sample Status	Engineering Sample	
EUT Modification(s)	N/A	

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

Channel	Frequency (MHz)			
01	13.56			

(3) Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
NFC	N/A	N/A	Loop antenna	N/A	N/A

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



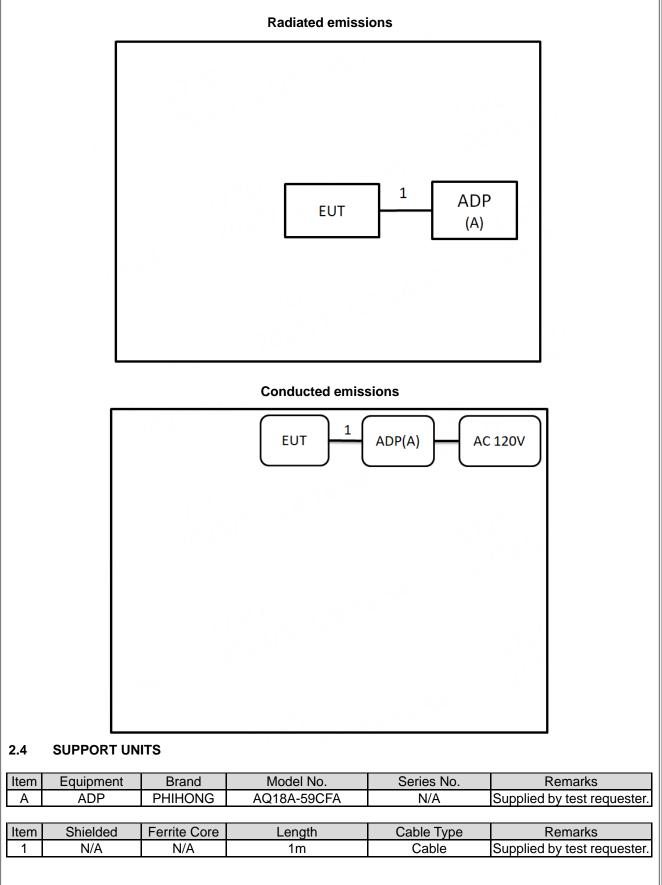
2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Radiated emissions (9KHz-30MHz)	ТХ	01	-
Radiated emissions (30MHz TO 1000MHz)	ТХ	01	-
Frequency Stability	ТХ	01	-
20 dB Bandwidth	ТХ	01	-



2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.





3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBµV)					
(MHz)	Quasi-peak	Average				
0.15 - 0.5	66 - 56 *	56 - 46 *				
0.50 - 5.0	56	46				
5.0 - 30.0	60	50				

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 - Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

	1			
Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	I	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	Π	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 All other support equipment were powered from an additional LISN(s).

The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.

- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable will be terminated, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

NOTE:

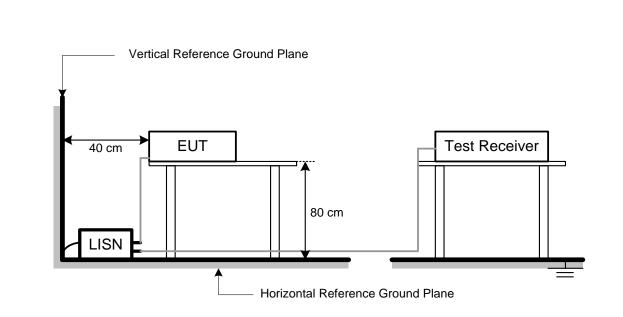
- In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.



3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.



4 RADIATED EMISSIONS TEST

4.1 LIMIT

		F	CC Part 15.209				
Frequency	Field Strength Lir	nitation	Field Strength Limitation at 3m Measurement Dist				
(MHz)	(uV/m)	Dist	(uV/m)	(dBuV/m)			
0.009 - 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80			
0.490 - 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40			
1.705 – 30.00	30	30m	100* 30	20log 30 + 40			
30.0 - 88.0	100	3m	100	20log 100			
88.0 - 216.0	150	3m	150	20log 150			
216.0 - 960.0	200	3m	200	20log 200			
Above 960.0	500	3m	500	20log 500			
		FCC P	Part 15.225(a)/(b)/(c)				
Frequency	Field Strength Lir	nitation	Field Strength Limitatio	n at 3m Measurement Dist			
(MHz)	(uV/m)	Dist	(uV/m)	(dBuV/m)			
13.553 – 13.567	15,848	30 m	15,848*100	124			
13.567 – 13.710	334	30 m	334*100	90.5			
13.110 – 13.410 13.710 – 14.010	106	30 m	106*100	80.5			

NOTE:

(1) The tighter limit shall apply at the boundary between two frequency range.

(2) Limitation expressed in dBuV/m is calculated by 20log Emission Level (uV/m).

(3) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of $L_{d1} = L_{d2} * (d_2/d_1)^2$. Example:

F.S Limit at 30m distance is 30uV/m, then F.S Limitation at 3m distance is adjusted as $L_{d1} = L_1 = 30uV/m * (10)^2 = 100 * 30 uV/m$ (4) The test result calculated as following:

(4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value – Limit Value



4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz).
- b. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- d. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

NOTE: (FCC PART 15.209)

- a. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz.
- b. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

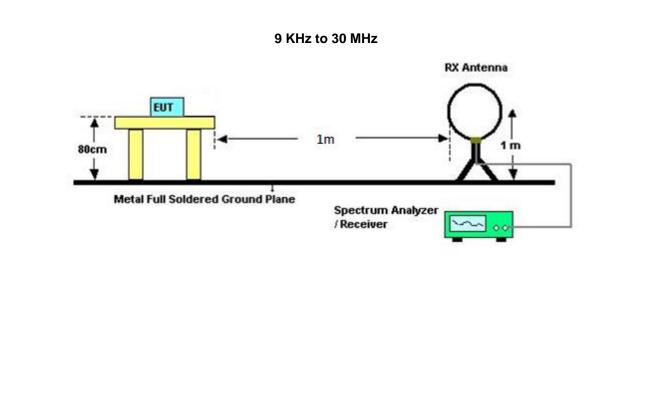
NOTE: (FCC PART 15.225)

- a. Spectrum Setting:
 - 9 KHz 150 KHz, RBW= 200Hz, VBW=200Hz, Sweep time = 200 ms.
 - 150 K Hz 30 MHz, RBW= 10 KHz, VBW=10 KHz, Sweep time = 200 ms.
 - 30 MHz 1000 MHz, RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms.
- b. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- c. The Log-Bicon Antenna will use to test frequency range from 30MHz to 1000MHz and the Loop Antenna will use to test frequency below 30MHz.

4.3 DEVIATION FROM TEST STANDARD

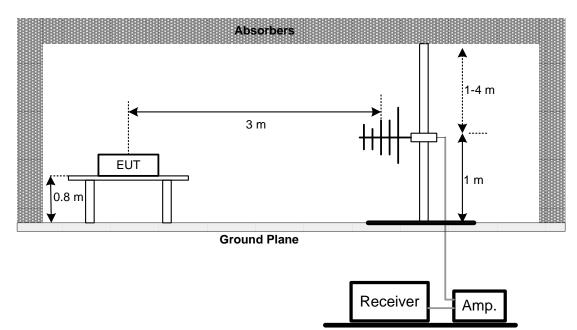
No deviation.

4.4 TEST SETUP



3โL

30 MHz to 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – 9 kHZ TO 30 MHZ– FCC PART 15.209

Please refer to the APPENDIX B

4.7 TEST RESULT – 30 MHZ TO 1 GHZ – FCC PART 15.209

Please refer to the APPENDIX C.

4.8 TEST RESULT – FCC PART 15.225

Please refer to the APPENDIX D.

NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.



5 FREQUENCY STABILITY

5.1 LIMIT

FCC Part 15.225(e)

The frequency tolerance of the carrier signal shall be maintained within \pm -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.

5.2 TEST PROCEDURE

- a. The equipment under test was connected to an external AC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber.
- b. At room temperature (25±5°C), an external variable AC power supply was connected to the EUT. The frequency of the transmitter was measured for 115%, 100% and 85% of the nominal operating input voltage.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.5 TEST RESULT

Please refer to the APPENDIX E.



6 20 DB BANDWIDTH

6.1 LIMIT

FCC Part 15.215(c)

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through §15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 1 kHz, VBW=1 kHz, Sweep time = 20 ms.

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX F.

7 LIST OF MEASURING EQUIPMENTS

		(Conduction Emiss	ions		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101521	2023/9/13	2024/9/12
2	Test Cable	EMCI	EMCCFD300-BM -BMR-5000	220331	2023/3/30	2024/3/29
3	EMI Test Receiver	R&S	ESR 7	101433	2023/11/10	2024/11/9
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

			Radiated Emission	ons		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2023/9/6	2024/9/5
2	Preamplifier	EMCI	EMC001340	980579	2023/9/6	2024/9/5
3	Test Cable	EMCI	EMC104-SM-100 0	180809	2023/7/10	2024/7/9
4	Test Cable	EMCI	EMC104-SM-SM- 3000	220322	2023/3/14	2024/3/13
5	Test Cable	EMCI	EMC104-SM-SM- 7000	220324	2023/3/14	2024/3/13
6	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
7	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2023/9/12	2024/9/11
8	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8
9	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8
10	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

	Frequency Stability &20 dB Bandwidth										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until					
1	Spectrum Analyzer	R&S	FSP 40	101139	2023/3/9	2024/3/8					

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



8 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2310G005-1 (APPENDIX-TEST PHOTOS).

9 EUT PHOTOS

Please refer to document Appendix No.: EP-2310G005-1 (APPENDIX-EUT PHOTOS).



APPENDIX A AC POWER LINE CONDUCTED EMISSIONS



												1			
Test Mode		Norn	nal										ed Date		023/11/17
Test Frequ	uency	-										Phas	se	Li	ne
100.0 Г) dBu¥					1							1		
90															
80															
70															
60															
50			1												
40			×												
30			2			3 X	5	i C		7 X			9 X 10		11 X 12
20			×			4 ×	6 ×	5		8 ×			×		×
10															
0.0															
0.1	150			0.5			(MH	z)		5					30.000
No. Mk	k. Fre		Reading Level		rect ctor	Measure- ment	Lir	nit	Margin						
	MH		dBuV		В	dBuV	dBu		dB	Deteo		Com	ment		
1 *	0.42		34.94		.58	44.52	57.	45	-12.93	QP					
2	0.42		16.89		.58	26.47	47.		-20.98	AV					
3	1.03		22.45		.58	32.03	56.		-23.97	QP					
4	1.03		13.68		.58	23.26	46.		-22.74	AV					
5	1.99		20.92		.65	30.57	56.		-25.43	QP					
6	1.99		12.33		.65	21.98	46.		-24.02	AV					
7	4.84		21.00		.64	30.64	56.		-25.36	QP					
8	4.84		12.37		.64	22.01	46.		-23.99	AV					
9 10	11.00		23.86 14.59		.73 .73	33.59 24.32	60. 50.		-26.41 -25.68	QP AV					
11	27.17		21.23		.69	30.92	60.		-29.08	QP					
12	27.17		15.43		.69	25.12	50.		-29.08	AV					
12	20.00	- 1	.0.40	3		20.12	00.		21.00		<u> </u>				

Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value - Limit Value.



		N						Taking Data	0000/44/47
est Mode		Normal						Tested Date	2023/11/17
est Frequ	uency	-				Phase	Neutral		
100.0	dBuV								
Γ									
90									
80									
70									
-									
60	×								
50			3						
40			4						
30	2 X			5			7 X	9 X	×
				E E			8 X	10 ×	12
20				· · · · · ·	<				X
10									
0.0	50		0.5		(MHz)		5		30.000
	50	Reading	Correct	Measure			5		30.000
No. Mk	. Freq		Factor	ment	- Limit	Margin			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1 *	0.197		9.59	58.40	63.73	-5.33	QP		
2	0.197		9.59	29.72	53.73	-24.01	AVG		
3	0.492		9.57	45.80	56.13	-10.33	QP		
4	0.492		9.57	36.36	46.13	-9.77	AVG		
5	1.497		9.60	28.45 19.26	56.00	-27.55 -26.74	QP		
6 7	4.737		9.60 9.64	32.13	46.00	-26.74	AVG QP		
8	4.737		9.64	23.26	46.00	-23.07	AVG		
9	10.999		9.76	32.66	60.00	-27.34	QP		
10	10.9994		9.76	23.53	50.00	-26.47	AVG		
11	26.857		9.87	34.73	60.00	-25.27	QP		

Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value - Limit Value.

BIL

est Mo		Idle						Tested Date	2023/11/17
est Fre	quency	-						Phase	Line
100.0	0 dBuV								
90									
80									
70									
70									
60	1								
50	*								
40		3 X							
	2 X				5 X		7	9 X 10	11 X
30	×	4 ×			6 6		× 8	10 ×	12 X
20		^			×		x		^
10									
0.0									
0.	150	().5		(MHz)		5		30.000
	-	Reading	Correct	Measure-	Lingit	Morgin			
No. M	k. Freq. MHz	Level dBuV	Factor dB	ment dBuV	Limit dBu∨	Margin dB	Detector	Commont	
1 *	0.2197	42.77	9.60	52.37	62.83	-10.46	QP	Comment	
2	0.2197	20.13	9.60	29.73	52.83	-23.10	AVG		
3	0.4312	31.45	9.58	41.03	57.23	-16.20	QP		
4	0.4312	14.59	9.58	24.17	47.23	-23.06	AVG		
5	2.0040	20.62	9.65	30.27	56.00	-25.73	QP		
6	2.0040	11.82	9.65	21.47	46.00	-24.53	AVG		
7	4.7915	19.33	9.64	28.97	56.00	-27.03	QP		
8	4.7915	10.63	9.64	20.27	46.00	-25.73	AVG		
9	10.1466	22.72	9.73	32.45	60.00	-27.55	QP		
10	10.1466	15.79	9.73	25.52	50.00	-24.48	AVG		
11	27.0936	22.75	9.69	32.44	60.00	-27.56	QP		
12	27.0936	14.72	9.69	24.41	50.00	-25.59	AVG		

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

BIL

est Mode		Idle							Tooto	d Date	2023/11/17
		lale									
est Frequ	iency	-							Phas	е	Neutral
100.0) dBu¥										
[
90											
80											
70											
60			_	••							
50		1 X		_3							
40				×							
20		2					7			9 X	11 X
30		×		4 ×	5 X		× 8			10	12 X
20					6 X		×			×	
10											
0.0											
0.1	150			0.5		(MHz)		5			30.000
No. Mk	. Fre		Reading Level	g Correct Factor	Measure- ment	Limit	Margin				
10. 11	MH	1 A A	dBuV	dB	dBuV	dBuV	dB	Detector	Comn	nent	
1	0.24	90	38.39	9.58	47.97	61.79	-13.82	QP			
2	0.24	90	20.13	9.58	29.71	51.79	-22.08	AVG			
3 *	0.50	10	34.50	9.57	44.07	56.00	-11.93	QP			
4	0.50	10	14.63	9.57	24.20	46.00	-21.80	AVG			
5	1.36	93	15.92	9.59	25.51	56.00	-30.49	QP			
6	1.36	93	8.55	9.59	18.14	46.00	-27.86	AVG			
7	3.00	97	18.92	9.63	28.55	56.00	-27.45	QP			
8	3.00		9.13	9.63	18.76	46.00	-27.24	AVG			
9	10.73		20.45	9.75	30.20	60.00	-29.80	QP			
10	10.73		11.64	9.75	21.39	50.00	-28.61	AVG			
11	27.09		21.30	9.88	31.18	60.00	-28.82	QP			
12	27.09	04	13.82	9.88	23.70	50.00	-26.30	AVG			

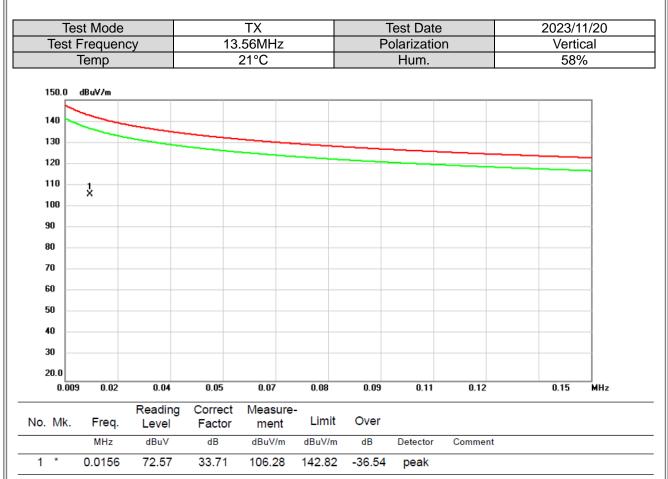
REMARKS:

Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value - Limit Value.



APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

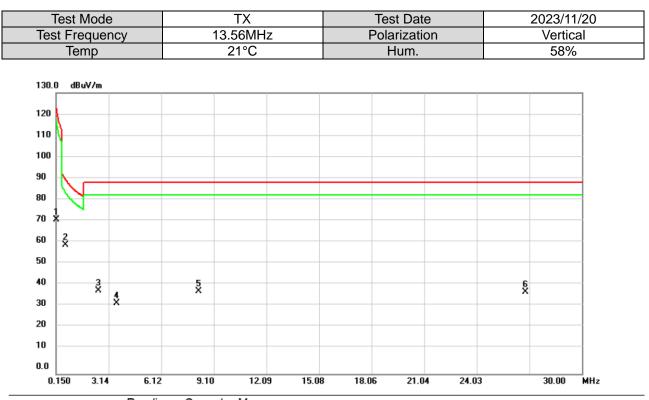




(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

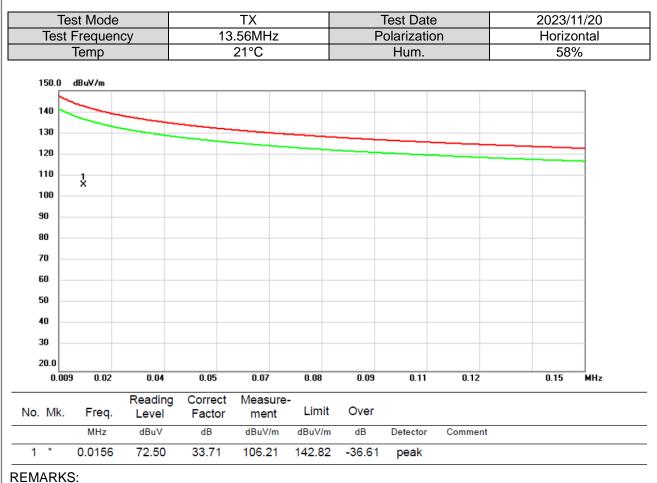




No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	56.81	14.42	71.23	123.16	-51.93	peak	
2	*	0.6992	56.10	3.47	59.57	89.79	-30.22	peak	
3		2.5678	41.48	-2.93	38.55	88.62	-50.07	peak	
4		3.5808	36.68	-3.99	32.69	88.62	-55.93	peak	
5		8.2433	41.95	-3.64	38.31	88.62	-50.31	peak	
6		26.7891	38.61	-0.88	37.73	88.62	-50.89	peak	

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.





(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



Test Mode	TX	Test Date	2023/11/20
Test Frequency	13.56MHz	Polarization	Horizontal
Temp	21°C	Hum.	58%
130.0 dBu∀/m			
120			
Λ			
110			
100			
90			
80			
70 *			
60			
×			
50 3 X			
40	5 X	S S	
30 ×	X	<u> </u>	
20			
10			
0.0			
0.150 3.14 6.12	2 9.10 12.09 15.	08 18.06 21.04 24.03	30.00 MHz
Readii	ng Correct Measure-		
o. Mk. Freq. Leve		nit Over	

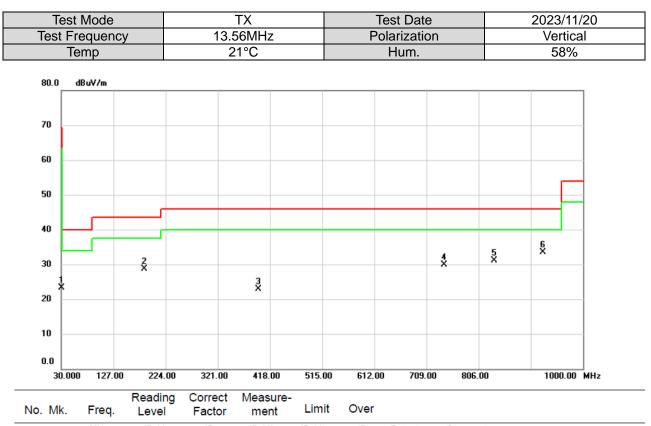
	140. WIX.	1169.	Level	Facior	ment				
-		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1	0.1978	62.05	12.34	74.39	120.76	-46.37	peak	
	2 *	1.0375	55.64	0.73	56.37	86.36	-29.99	peak	
	3	1.6395	48.51	-0.85	47.66	82.38	-34.72	peak	
-	4	3.3430	36.04	-3.91	32.13	88.62	-56.49	peak	
-	5	10.1816	37.81	-3.22	34.59	88.62	-54.03	peak	
-	6	24.2588	37.74	-2.09	35.65	88.62	-52.97	peak	
-									

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.



APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ



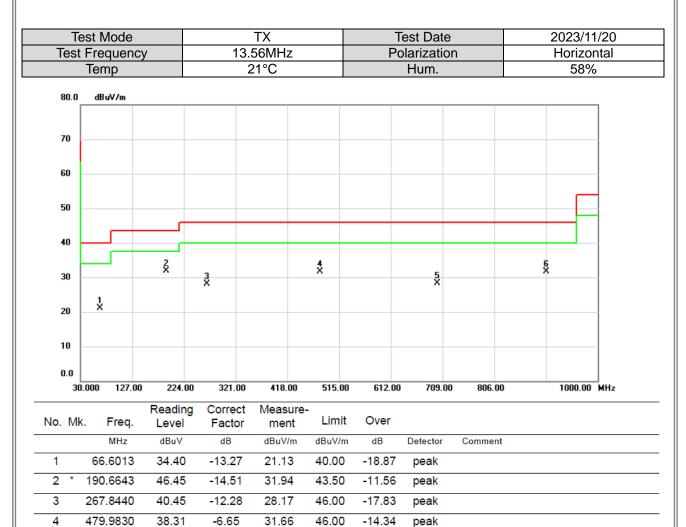


	INO.	IVIK.	Fleq.	Level	Factor	ment	Linin	Over		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		30.0000	36.61	-13.32	23.29	40.00	-16.71	peak	
-	2	1	84.7473	42.54	-13.81	28.73	43.50	-14.77	peak	
-	3	3	96.6276	31.60	- 8.71	22.89	46.00	-23.11	peak	
-	4	7	41.4303	31.65	-1.66	29.99	46.00	-16.01	peak	
-	5	8	35.5203	31.45	-0.27	31.18	46.00	-14.82	peak	
_	6	* 9	25.0190	32.66	0.92	33.58	46.00	-12.42	peak	

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.





-17.72

-14.21

peak

peak

46.00

46.00

6 90 REMARKS:

5

698.7503

903.4203

(1) Measurement Value = Reading Level + Correct Factor.

-2.64

0.50

28.28

31.79

(2) Margin Level = Measurement Value - Limit Value.

30.92

31.29



APPENDIX D RADIATED EMISSIONS - FCC PART 15.225





(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.





(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



APPENDIX E FREQUENCY STABILITY MEASUREMENT



Test Mode

ΤХ

Tested Date

2023/11/27

	Modulation	Test									Limit		
Temperature	Mode	Freq.	0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	Limit (ppm)	Result	
				Normal									
T _{20°C} Vmax	CW	13.56	13.560 200	13.560 400	13.560 400	13.560 400	14.75	29.50	29.50	29.50	100	Pass	
T _{20°C} Vmin	CW 13.56		13.560 200	13.560 200	13.560 200	13.560 200	14.75	4.75 14.75 14.75		14.75	100	Pass	
			Extreme										
T _{35°C} Vnom	CW	13.56	13.560 200	13.560 200	13.560 200	13.560 200	14.75	14.75	14.75	14.75		Pass	
T _{30°C} Vnom	CW	13.56	13.560 200	13.560 200	13.560 200	13.560 200	14.75	14.75	14.75	14.75		Pass	
T _{20°C} Vnom	CW	13.56	13.560 200	13.560 400	13.560 200	13.560 200	14.75	29.50	14.75	14.75	100	Pass	
T _{10°C} Vnom	CW	13.56	13.560 200	13.560 200	13.560 200	13.560 200	14.75	14.75	14.75	14.75		Pass	
T _{0°C} Vnom	CW	13.56	13.560 200	13.560 200	13.560 200	13.560 200	14.75	14.75	14.75	14.75		Pass	

NOTE: 0.01 % = 100 ppm.



	Report No.: BTL	<u>-FCCP-1-231</u>
APPENDIX F	20 DB BANDWIDTH	



