

FCC Radio Test Report

FCC ID: 2ABSI10200WTA


Report No. : eLAB-FCCP-1-2407T005
Equipment : 10200 Qi2 45W Magnetic Rechargeable Li Battery
Model Name : ABP-10200A2 WTA
Brand Name : Innergie
Applicant : Powergene Technology Co., Ltd. Taiwan Branch
Address : 8F-1, No. 1, Wuquan 1st Rd., XinZhuang Dist., New Taipei City, 24892, Taiwan (R.O.C)

Radio Function : WPC-Qi (128 ~ 360 kHz)

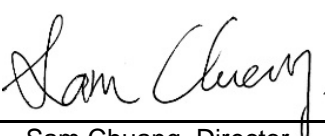
FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.209)
Measurement Procedure(s) : ANSI C63.10-2013

Date of Receipt : 2024/8/27
Date of Test : 2024/8/28~2024/11/1
Issued Date : 2024/11/15

The above equipment has been tested and found in compliance with the requirement of the above standards by eTest certification Laboratory Inc. hereinafter referred to as "eLAB".

Prepared by : 

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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. eLAB assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by eLAB.

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

Report No.	Version	Description	Issued Date	Note
eLAB-FCCP-1-2407T005	R00	Original Report.	2024/11/15	Valid

1 SUMMARY OF TEST RESULTS

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	-----
15.209	Radiated Emissions	APPENDIX B APPENDIX C	Pass	-----
15.215(c)	20 dB Bandwidth	APPENDIX D	Pass	-----

Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

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 is 4045. The satellite facilities under the test firm used to collect the test data in this report are:

1-2F, No. 91, Ln. 298, Wengong 1st Rd., Guishan Dist., Taoyuan City 333001, Taiwan

■ CB03 ■ C01

1.2 MEASUREMENT UNCERTAINTY

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

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C01	CISPR	150 kHz ~ 30 MHz	3.4

B. Radiated emissions below 1 GHz test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U (dB)
CB03	CISPR	0.009 kHz ~ 30 MHz	-	2.9
		30 MHz ~ 1000 MHz	H	3.2
			V	4.0
		1 GHz ~ 6 GHz	H	4.8
			V	4.9
		6 GHz ~ 18 GHz	H	4.8
			V	4.7
		18 GHz ~ 40GHz	-	4.1

C. Conducted test:

Test Item	U (dB)
Bandwidth	1.13

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	26°C, 44%	AC 120V	Ray Chen
Radiated emissions (9KHz TO 30MHz)	25°C, 60%	DC 5 V	Ray Chen
Radiated emissions (30MHz TO 1000MHz)	25°C, 60%	DC 5 V	Ray Chen
20 dB Bandwidth	20°C, 53%	DC 5 V	Nero Hsieh

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	10200 Qi2 45W Magnetic Rechargeable Li Battery
Model Name	ABP-10200A2 WTA
Brand Name	Innervie
Model Difference	N/A
Power Source	Supplied from USB port and Battery.
Power Rating	I/P : 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/2.25A, Total 45W MAX USB-C Port 1 : O/P : 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/2.25A, Total 45W MAX USB-C Port 2 : O/P : 5V/3A, 9V/2.2A, 12V/1.6A, 15V/1.3A, 20V/1.0A PPS:5~21V/2.5A, Total 20W MAX Qi 2.0 Wireless : O/P : 15W MAX USB-C Port 1 + USB-C Port 2 : O/P : 25W+20W, Total 45W MAX USB-C Port 1 + Qi 2.0 Wireless : O/P : 25W+15W, Total 40W MAX USB-C Port 2 + Qi 2.0 Wireless : O/P : 5W+5W, Total 10W MAX Battery: 3.88Vdc, 5000mAh
Products Covered	N/A
Frequency Range	128 kHz ~ 360 kHz
Modulation Technology	ASK
Max H-field strength	58.62 dBuV/m
Test Model	ABP-10200A2 WTA
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 (kHz)
-	360

(3) Table for Filed Antenna:

Ant.	Brand	Model	Type	Connector	Gain (dBi)
1	ATANS	AWC-TS1528N-AT	Coil	N/A	N/A

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 TO 30MHz)	Transmit	-	-
Radiated emissions (30MHz TO 1000MHz)	Transmit	-	-
20 dB Bandwidth	Transmit	-	-

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.

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	POLYWELL	GS-W18A0922A	N/A	Furnished by test lab.
B	Fixture	YBZ	Qi2 MPP	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	NO	NO	50cm	USB CABLE	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	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:

Reading Level (dBμV)		Correct Factor (dB)		Measurement Value (dBμV)
38.22	+	3.45	=	41.67

Measurement Value (dBμV)		Limit Value (dBμV)		Margin Level (dB)
41.67	-	60	=	-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.

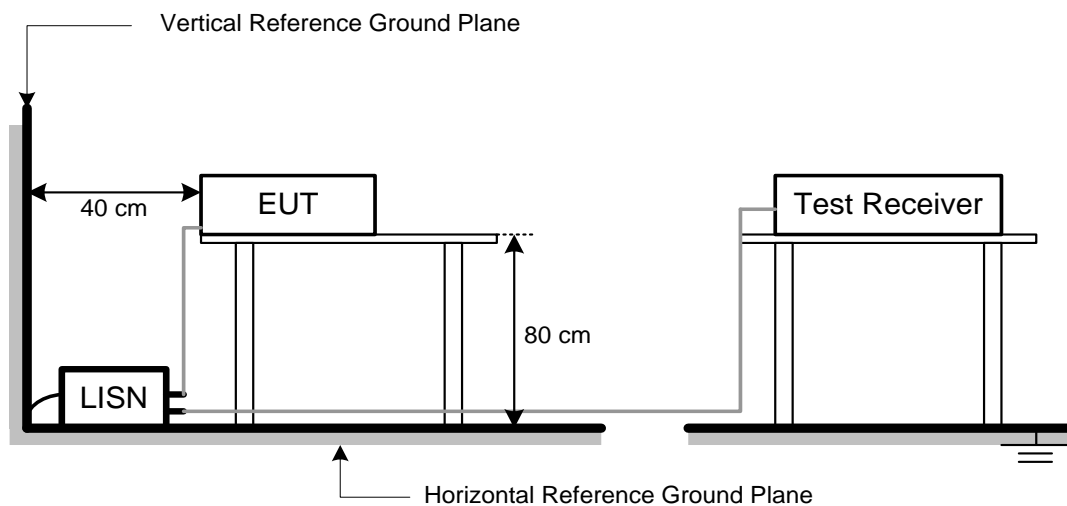
NOTE:

- (1) 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

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT(9 kHz-1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
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

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (dBuV)		Correct Factor (dB/m)		Measurement Value (dBuV/m)
19.11	+	2.11	=	21.22

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
21.22	-	40	=	-18.78

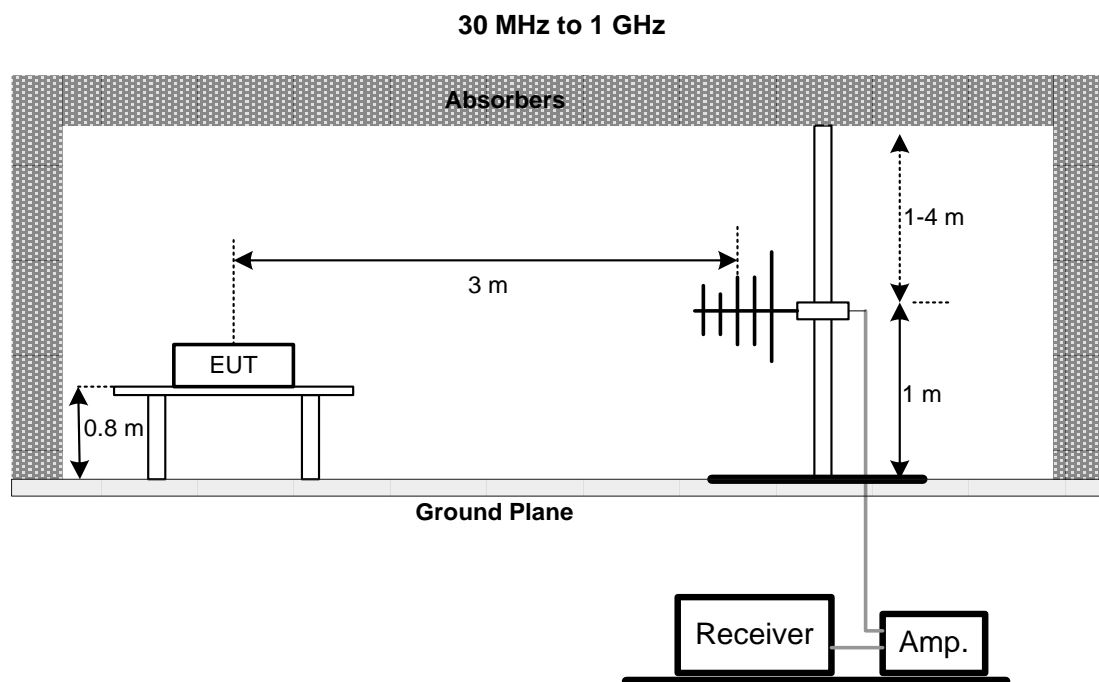
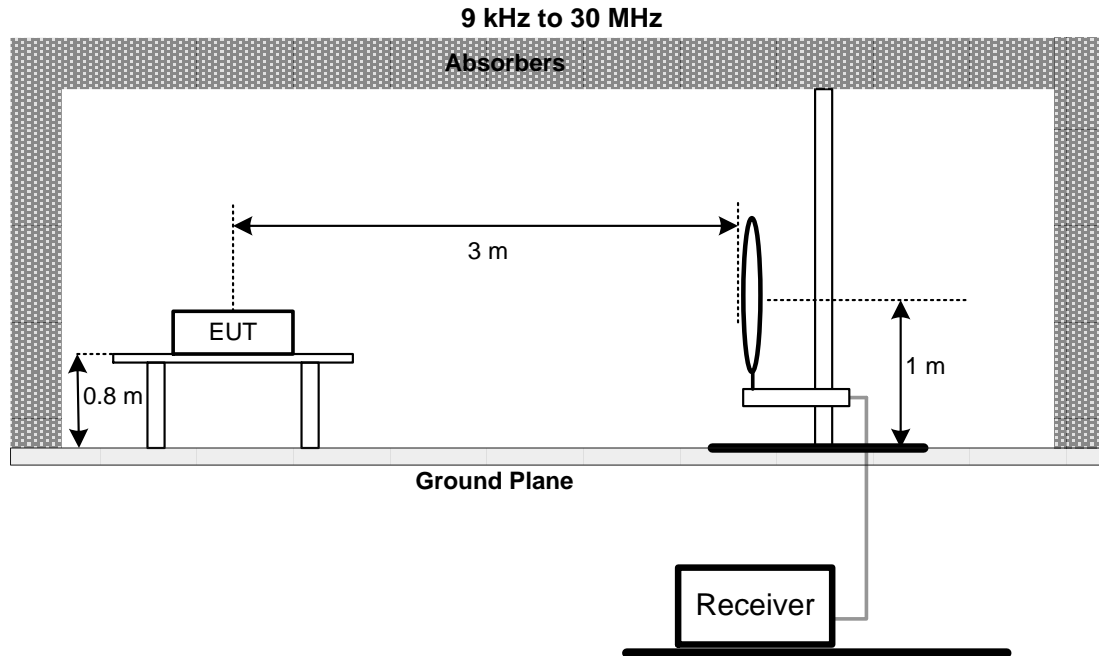
4.2 TEST PROCEDURE

- The measuring distance of 1 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 30MHz)
- 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 1 GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- 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.
- 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. (below 1 GHz)
- For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX C.

NOTE:

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

5 20 DB BANDWIDTH

5.1 LIMIT

N/A

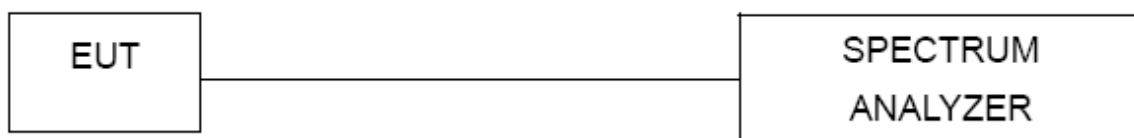
5.2 TEST PROCEDURE

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

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101339	2024/3/28	2025/3/27
2	Test Cable	EMCI	EMC104-SM-SM-6000	240635	2024/7/15	2025/7/14
3	EMI Test Receiver	R&S	ESR3	103133	2024/8/21	2025/8/20
4	Measurement Software	Farad	EZ_EMC (Ver.E-LAB-5A2.2 2021)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9168	01578	2024/7/17	2025/7/16
2	Attenuator	INMET	EMCI-N-6-05	AT-N0576	2024/7/17	2025/7/16
3	Pre-Amplifier	EMCI	EMC001330	980908	2024/7/23	2025/7/22
4	Test Cable	EMCI	EMC104-SM-SM-6000	230539	2024/7/23	2025/7/22
5	Test Cable	EMCI	EMC104-SM-SM-2500	230542	2024/7/23	2025/7/22
6	Test Cable	EMCI	EMC104-SM-SN-1000	230543	2024/7/23	2025/7/22
7	MXE EMI Receiver	Keysight	N9038A	MY55420127	2024/6/19	2025/6/18
8	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

20 dB Bandwidth Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	EXA Signal Analyzer	Keysight	N9010A	MY52220990	2024/10/4	2025/10/3

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

7 EUT TEST PHOTO

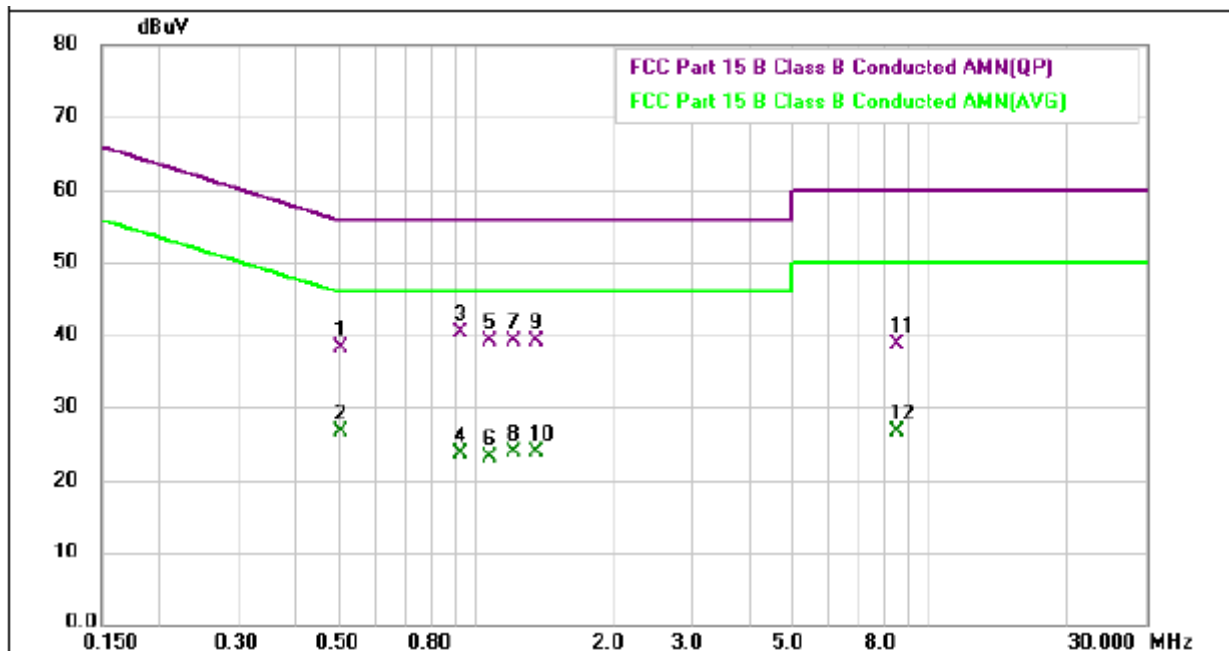
Please refer to document Appendix No.: Test Setup-2407T005-FCCP-1 (APPENDIX-TEST PHOTOS).

8 EUT PHOTOS

Please refer to document Appendix No.: EP-External-2407T005-FCCP-1, EP-Internal-2407T005-FCCP-2 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2024/9/2
Test Voltage	AC 120V/60Hz	Phase	Line



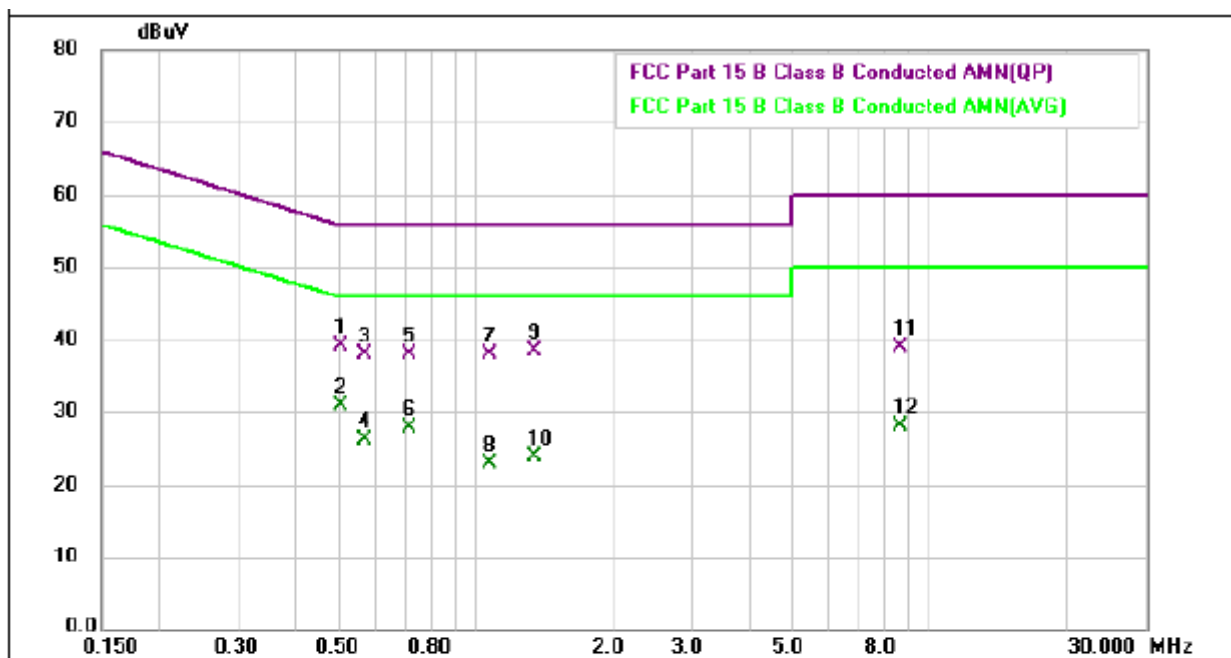
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Meas. Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.503250	28.50	9.64	38.14	56.00	-17.86	QP	
2	0.503250	17.10	9.64	26.74	46.00	-19.26	AVG	
3	* 0.928500	30.70	9.66	40.36	56.00	-15.64	QP	
4	0.928500	14.10	9.66	23.76	46.00	-22.24	AVG	
5	1.070250	29.50	9.66	39.16	56.00	-16.84	QP	
6	1.070250	13.50	9.66	23.16	46.00	-22.84	AVG	
7	1.209750	29.40	9.66	39.06	56.00	-16.94	QP	
8	1.209750	14.30	9.66	23.96	46.00	-22.04	AVG	
9	1.353750	29.60	9.66	39.26	56.00	-16.74	QP	
10	1.353750	14.20	9.66	23.86	46.00	-22.14	AVG	
11	8.461500	28.90	9.78	38.68	60.00	-21.32	QP	
12	8.461500	16.90	9.78	26.68	50.00	-23.32	AVG	

REMARKS:

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

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

Test Mode	Normal	Tested Date	2024/9/2
Test Voltage	AC 120V/60Hz	Phase	Neutral



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Meas. Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.503250	29.50	9.64	39.14	56.00	-16.86	QP	
2	*	0.503250	21.40	31.04	46.00	-14.96	AVG	
3	0.570750	28.40	9.64	38.04	56.00	-17.96	QP	
4	0.570750	16.50	9.64	26.14	46.00	-19.86	AVG	
5	0.712500	28.30	9.64	37.94	56.00	-18.06	QP	
6	0.712500	18.20	9.64	27.84	46.00	-18.16	AVG	
7	1.074750	28.40	9.65	38.05	56.00	-17.95	QP	
8	1.074750	13.30	9.65	22.95	46.00	-23.05	AVG	
9	1.349250	28.70	9.66	38.36	56.00	-17.64	QP	
10	1.349250	14.20	9.66	23.86	46.00	-22.14	AVG	
11	8.634750	29.10	9.80	38.90	60.00	-21.10	QP	
12	8.634750	18.40	9.80	28.20	50.00	-21.80	AVG	

REMARKS:

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

APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

Test Mode	TX	Test Date	2024/9/2
Test Frequency	360 kHz	Polarization	Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Meas. Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1	0.3600	53.06	5.56	58.62	96.48	-37.86	peak			主波
2	* 3.4280	43.20	-4.76	38.44	69.54	-31.10	peak			
3	5.7373	39.56	-3.97	35.59	69.54	-33.95	peak			
4	10.7757	39.57	-3.94	35.63	69.54	-33.91	peak			
5	12.9650	39.81	-4.27	35.54	69.54	-34.00	peak			
6	16.3240	38.19	-5.16	33.03	69.54	-36.51	peak			

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) *: Maximum data x: Over limit !: Over margin

Test Mode	TX	Test Date	2024/9/2
Test Frequency	360 kHz	Polarization	Horizontal



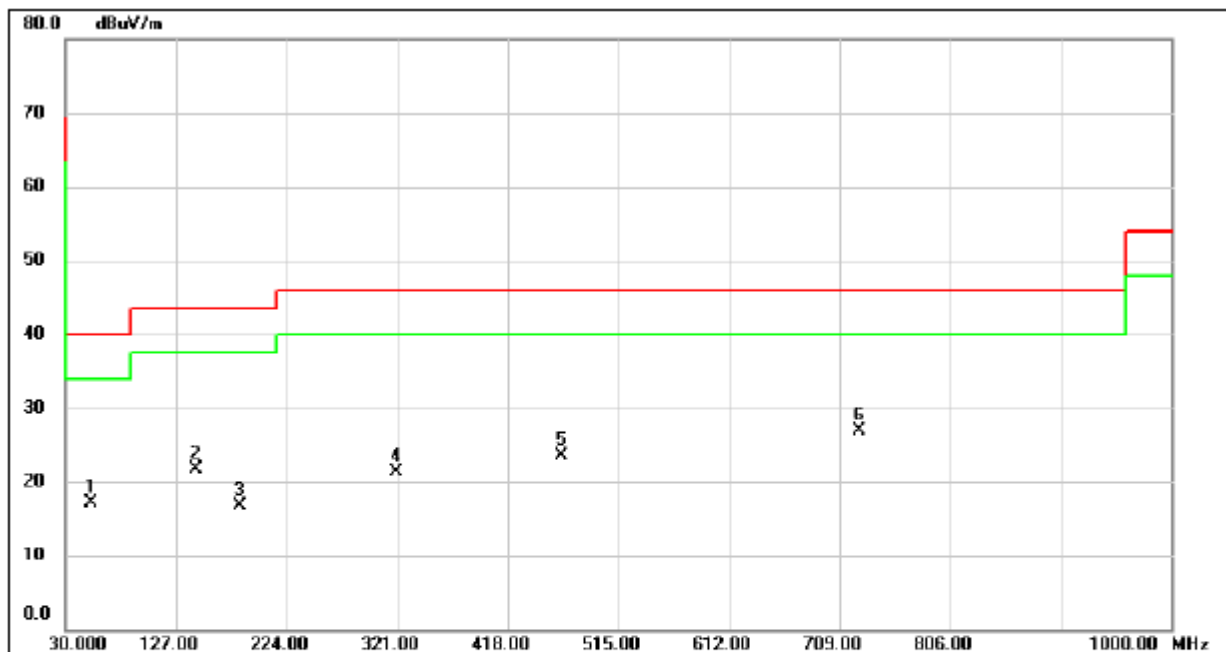
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Meas. Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1	0.3600	52.63	5.56	58.19	96.48	-38.29	peak			主波
2	* 3.3980	40.77	-4.75	36.02	69.54	-33.52	peak			
3	9.3362	38.87	-3.78	35.09	69.54	-34.45	peak			
4	12.5452	38.31	-4.14	34.17	69.54	-35.37	peak			
5	18.6934	39.29	-5.39	33.90	69.54	-35.64	peak			
6	23.2520	39.31	-8.58	30.73	69.54	-38.81	peak			

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) *: Maximum data x: Over limit !: Over margin

APPENDIX C RADIATED EMISSIONS - 30 MHz TO 1 GHz

Test Mode	TX	Test Date	2024/9/2
Test Frequency	360 kHz	Polarization	Vertical

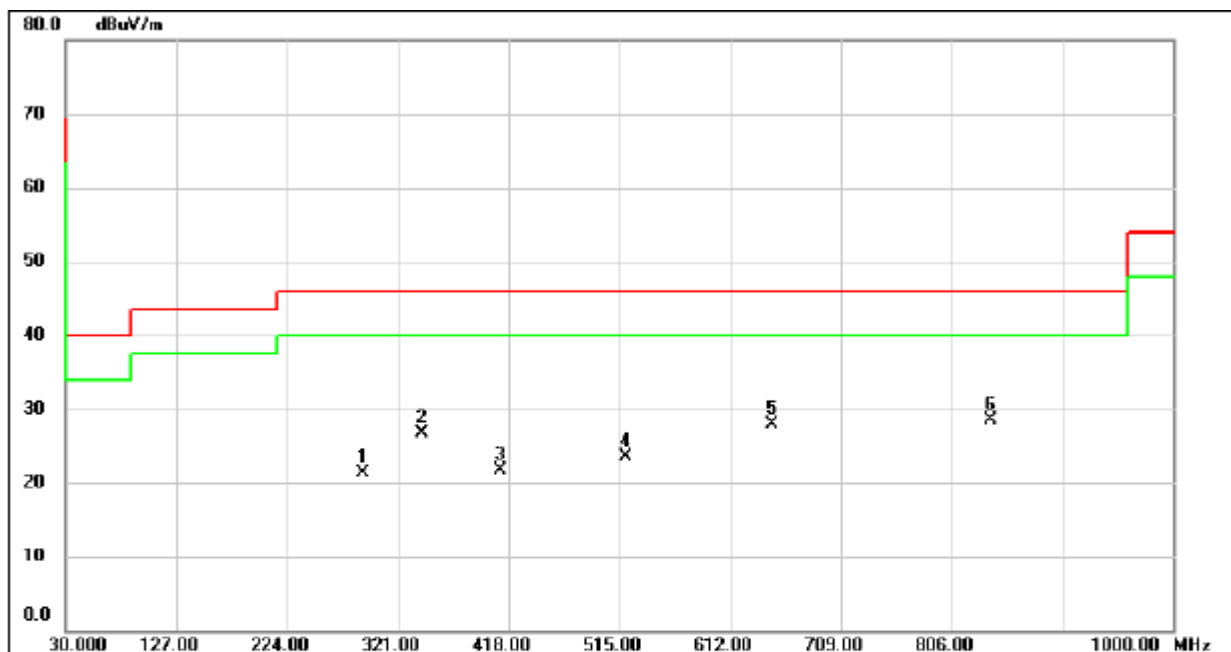


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Meas. Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1	52.3100	29.35	-12.17	17.18	40.00	-22.82	peak			
2	144.4600	34.10	-12.43	21.67	43.50	-21.83	peak			
3	183.2600	30.57	-13.89	16.68	43.50	-26.82	peak			
4	320.0300	32.18	-10.86	21.32	46.00	-24.68	peak			
5	464.5600	30.81	-7.37	23.44	46.00	-22.56	peak			
6	* 726.4600	29.86	-2.93	26.93	46.00	-19.07	peak			

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) *: Maximum data x: Over limit !: Over margin

Test Mode	TX	Test Date	2024/9/2
Test Frequency	360 kHz	Polarization	Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Meas. Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1	290.9300	32.71	-11.47	21.24	46.00	-24.76	peak			
2	342.3400	37.19	-10.42	26.77	46.00	-19.23	peak			
3	411.2100	30.19	-8.55	21.64	46.00	-24.36	peak			
4	520.8200	30.21	-6.66	23.55	46.00	-22.45	peak			
5	648.8600	31.90	-4.08	27.82	46.00	-18.18	peak			
6	* 839.9500	29.93	-1.50	28.43	46.00	-17.57	peak			

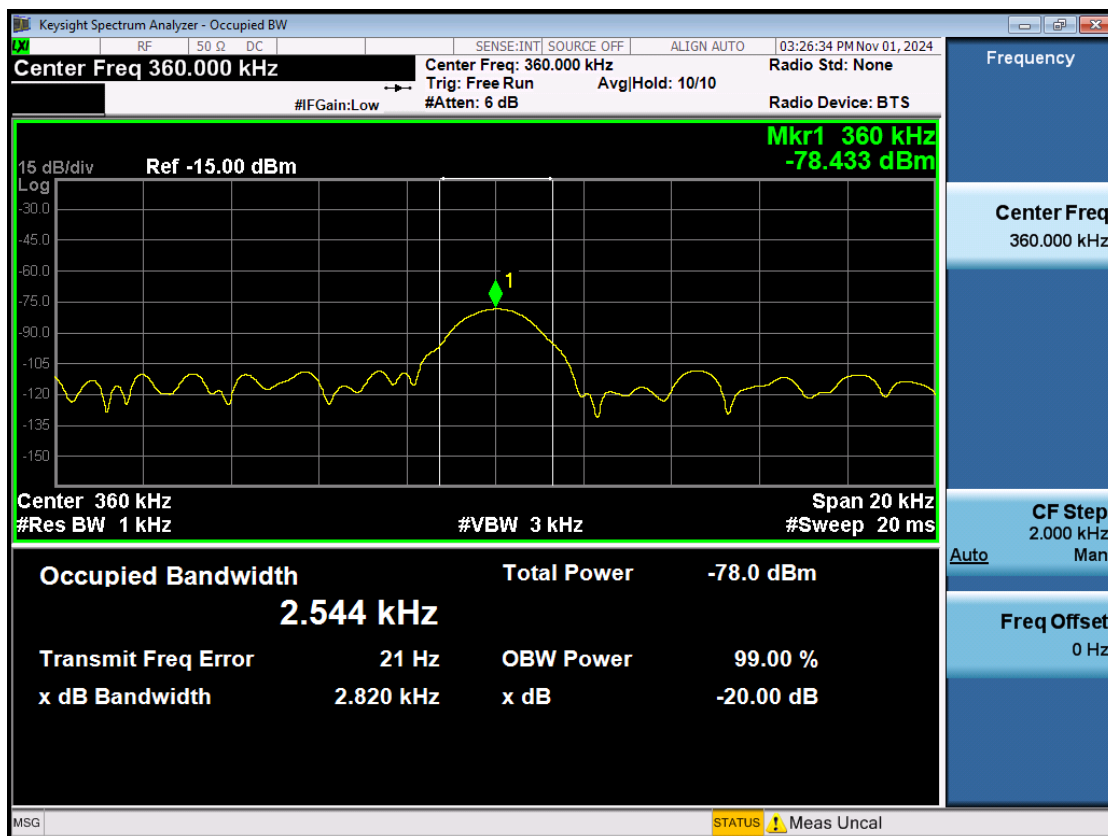
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) *: Maximum data x: Over limit !: Over margin

APPENDIX D 20 DB BANDWIDTH

Test Mode	TX
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Frequency (KHz)	20dB Bandwidth (KHz)	Operated Frequency Range (KHz)	Result
360.00	2.82	362.82	Complied



End of Test Report