



# FCC EMI TEST REPORT

**FCC ID** : 2BHFNHESTIAA1  
**Equipment** : NTN Dongle  
**Brand Name** : APAL  
**Model Name** : Hestia A1  
**Applicant** : Creative5 Inc.  
7F, No.300, Sec. 1, Neihu Rd., Neihu Dist.  
Taipei City, 11493, Taiwan  
**Manufacturer** : Creative5 Inc.  
7F, No.300, Sec. 1, Neihu Rd., Neihu Dist.  
Taipei City, 11493, Taiwan  
**Standard** : FCC 47 CFR FCC Part 15 Subpart B Class B

The product was received on Aug. 30, 2024 and testing was performed from Sep. 11, 2024 to Sep. 12, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

**Sportun International Inc. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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**Appendix A. AC Conducted Emission Test Result****Appendix B. Radiated Emission Test Result****Appendix C. Setup Photographs**



## History of this test report



## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	13.37 dB under the limit at 0.15 MHz
3.2	15.109	Radiated Emission	Pass	7.86 dB under the limit at 91.02 MHz

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Emma Hsiao



## 1. General Description

### 1.1. Product Feature of Equipment Under Test

Product Feature	
<b>General Specs</b> NTN and GNSS.	
<b>Antenna Type</b> NTN: Monopole Antenna GPS / Glonass / BDS / Galileo: Monopole Antenna	
<b>Integrated NTN module</b>	Equipment Name: NTN miniPCIE module Brand Name: COMPAL Model Name: RMM-T1

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

### 1.2. Modification of EUT

No modifications made to the EUT during the testing.

### 1.3. Test Location

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b> CO05-HY, 03CH06-HY

FCC designation No.: TW1093

### 1.4. Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR FCC Part 15 Subpart B Class B
- ♦ ANSI C63.4-2014
- ♦ ANSI C63.4a-2017

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

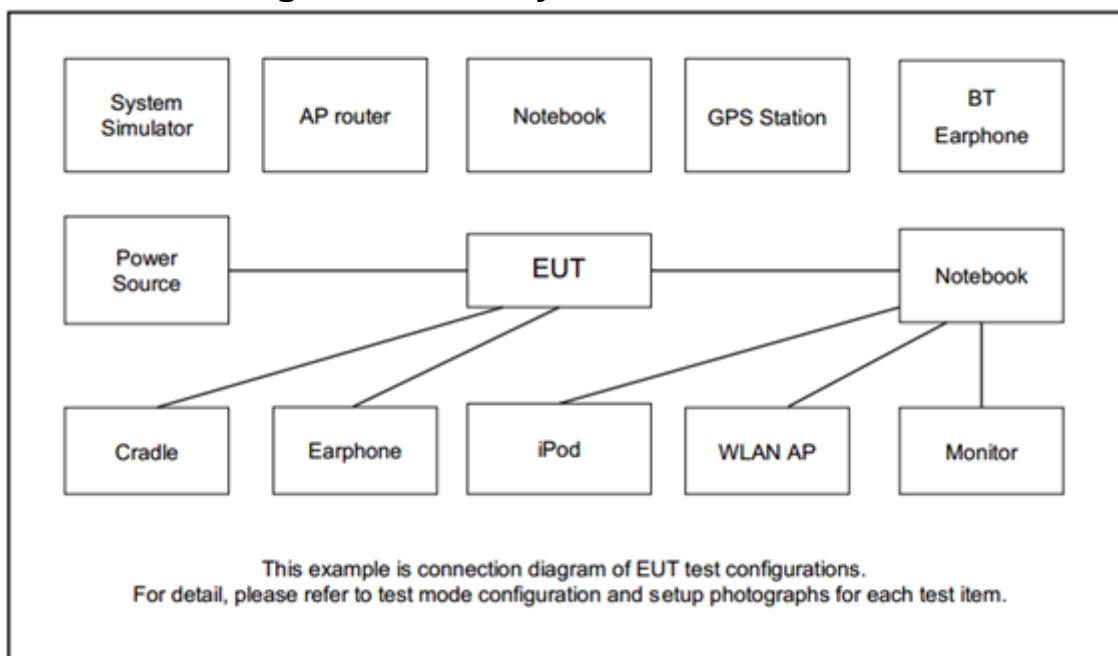
## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT is tested along with the peripherals, operating under possible configurations in compliant with normal operation. The maximum emissions can be identified by a pre-scan carried out in different orientations of placement pursuant to ANSI C63.4-2014. Frequency range covered: Conduction Emission (150 kHz to 30 MHz), Radiation Emission (30 MHz to the 5<sup>th</sup> harmonics of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Functions Enabled
AC Conducted Emission	Mode 1: NTN Band 255 Idle + Cable with AP Router
Radiated Emissions	Mode 1: NTN Band 255 Idle + Cable with AP Router

### 2.2. Connection Diagram of Test System





## 2.3. Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0m	N/A
3.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0m	N/A
4.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
5.	Notebook	Lenovo	TP00116A	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
6.	AP Router	N/A	N/A	N/A	N/A	N/A

## 2.4. EUT Operation Test Setup

The EUT is in NTN idle mode during the test. The EUT is synchronized with the BCCH, and has been continuous receiving mode by setting paging reorganization of the system simulator.



### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1. Limits of AC Conducted Emission

For equipment 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.

<Class B>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

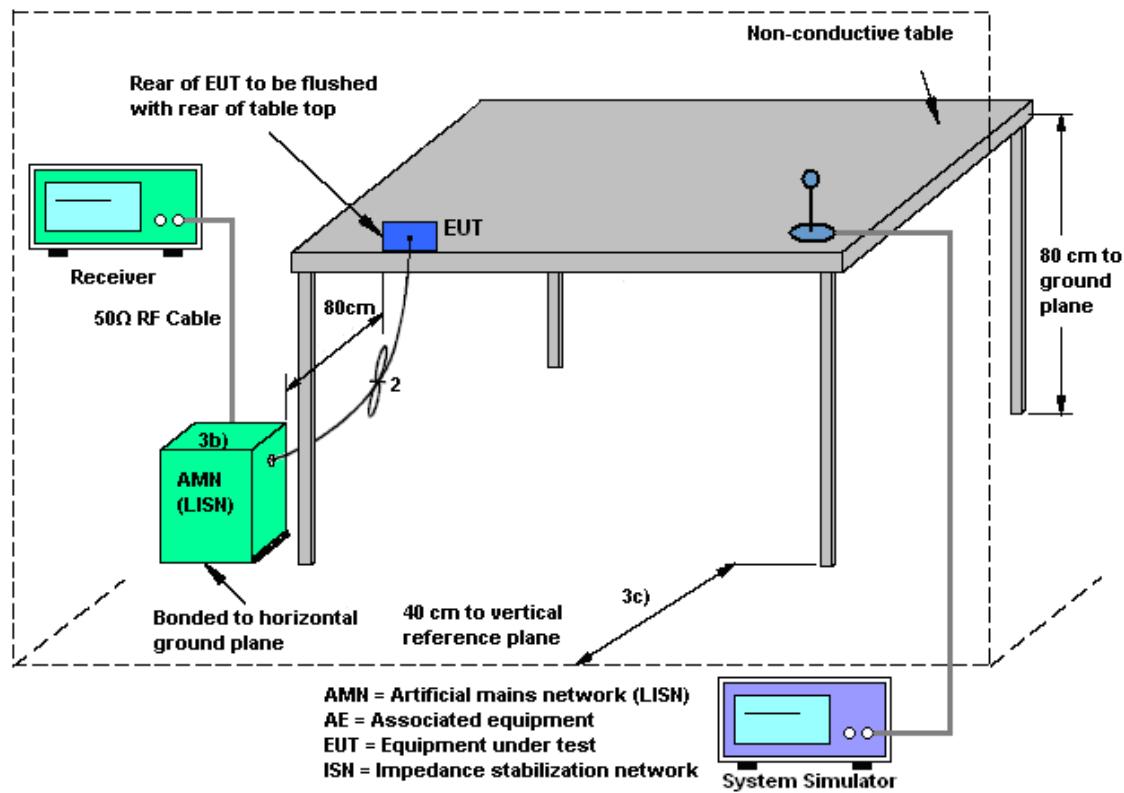
##### 3.1.2. Measuring Instruments

Please refer to the measuring equipment list in this test report.

##### 3.1.3. Test Procedure

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (If Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.1.4. Test Setup



### 3.1.5. Test Result of AC Conducted Emission

Please refer to Appendix A.



### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 3.2.2. Measuring Instruments

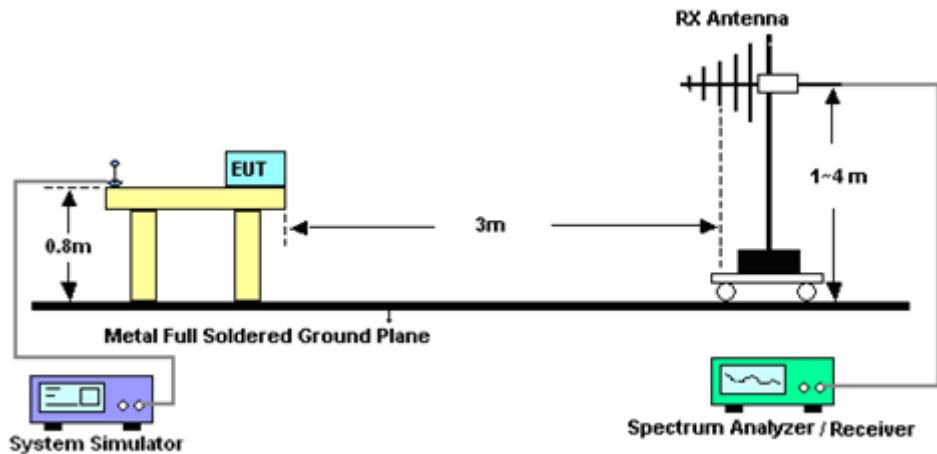
Please refer to the measuring equipment list in this test report.

#### 3.2.3. Test Procedures

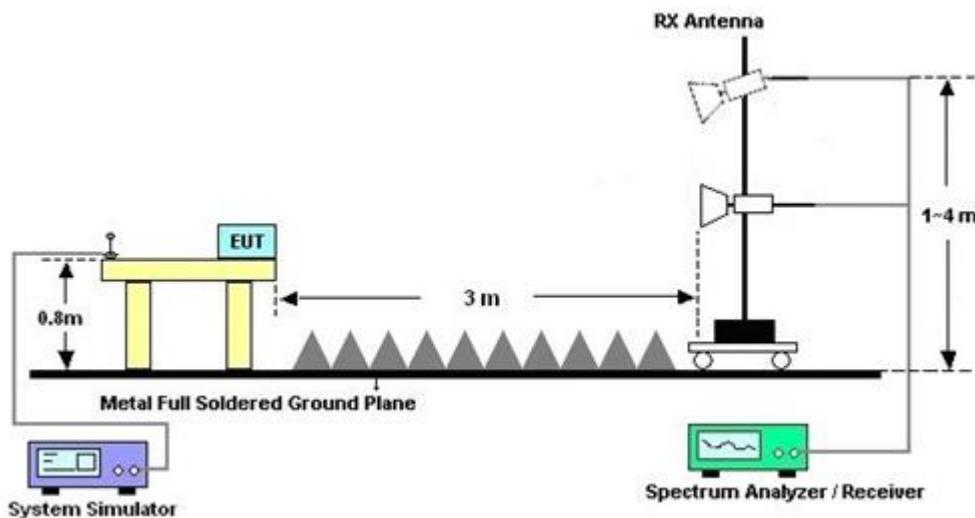
1. The EUT is placed on a turntable with 0.8 meter above ground.
2. The EUT is set 3 meters(30 M~18 G) and 1 meters (18 G~40 G) from the interference receiving antenna, which is mounted on the top of a variable height antenna tower.
3. The table is rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120 kHz/VBW=300 kHz for frequency below 1 GHz; RBW=1 MHz VBW=3 MHz (Peak), RBW=1 MHz/VBW=10 Hz (Average) for frequency above 1 GHz).
7. If the emission level of the EUT in peak mode is 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.

### 3.2.4. Test Setup of Radiated Emission

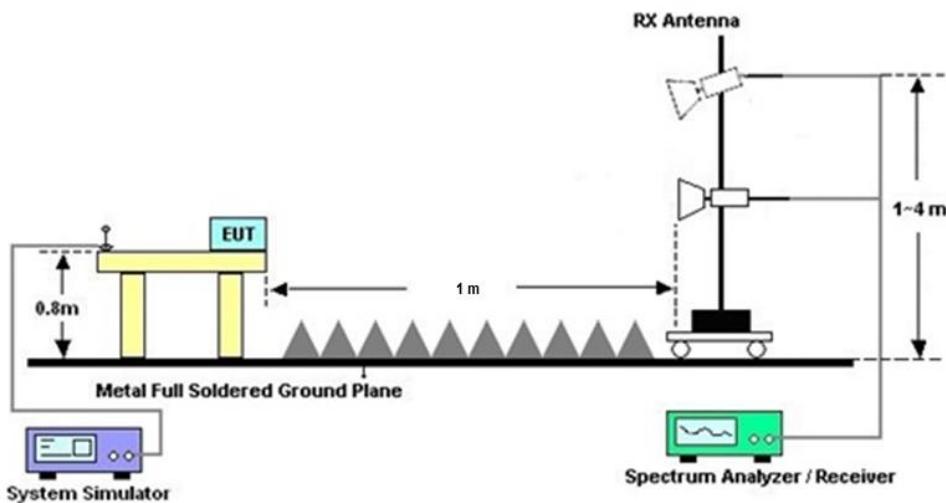
For Radiated Emissions from 30 MHz to 1 GHz



For Radiated Emissions from 1GHz to 18GHz



## For Radiated Emissions above 18GHz



### 3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.



## 4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 16, 2024	Sep. 11, 2024	Apr. 15, 2025	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL 6111C & N-6-06	2725 & AT-N0601	30MHz~1GHz	Nov. 03, 2023	Sep. 11, 2024	Nov. 02, 2024	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Feb. 01, 2024	Sep. 11, 2024	Jan. 31, 2025	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02037	1GHz~18GHz	Dec. 28, 2023	Sep. 11, 2024	Dec. 27, 2024	Radiation (03CH06-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180001	1GHz~18GHz	Jul. 15, 2024	Sep. 11, 2024	Jul. 14, 2025	Radiation (03CH06-HY)
Preamplifier	EMEC	EM18G40G	0600789	18~40GHz	Aug. 05, 2024	Sep. 11, 2024	Aug. 04, 2025	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SF104 SF102_2000mm SF102_3000mm SF102_7000mm	802433/4_5324 21/2_532422/2 _532299/2	N/A	Jul. 02, 2024	Sep. 11, 2024	Jul. 01, 2025	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 22, 2024	Sep. 11, 2024	Apr. 21, 2025	Radiation (03CH06-HY)
Hygrometer	TECPEL	DTM-303B	TP210018	N/A	Oct. 24, 2023	Sep. 11, 2024	Oct. 23, 2024	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18~40GHz	Nov. 24, 2023	Sep. 11, 2024	Nov. 23, 2024	Radiation (03CH06-HY)
Signal Analyzer	R&S	FSV3044	101104	10Hz~44GHz	Feb. 20, 2024	Sep. 11, 2024	Feb. 19, 2025	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Sep. 11, 2024	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	Sep. 11, 2024	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Sep. 11, 2024	N/A	Radiation (03CH06-HY)
Software	Audix	E3	N/A	N/A	N/A	Sep. 11, 2024	N/A	Radiation (03CH06-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 12, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Sep. 12, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Sep. 12, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 08, 2023	Sep. 12, 2024	Dec. 07, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Sep. 12, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Sep. 12, 2024	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 30, 2024	Sep. 12, 2024	Jul. 29, 2025	Conduction (CO05-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Sep. 12, 2024	Mar. 13, 2025	Conduction (CO05-HY)



## 5. Measurement Uncertainty

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{C(y)}$ )	3.5 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{C(y)}$ )	5.8 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{C(y)}$ )	4.8 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{C(y)}$ )	5.4 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{C(y)}$ )	5.0 dB
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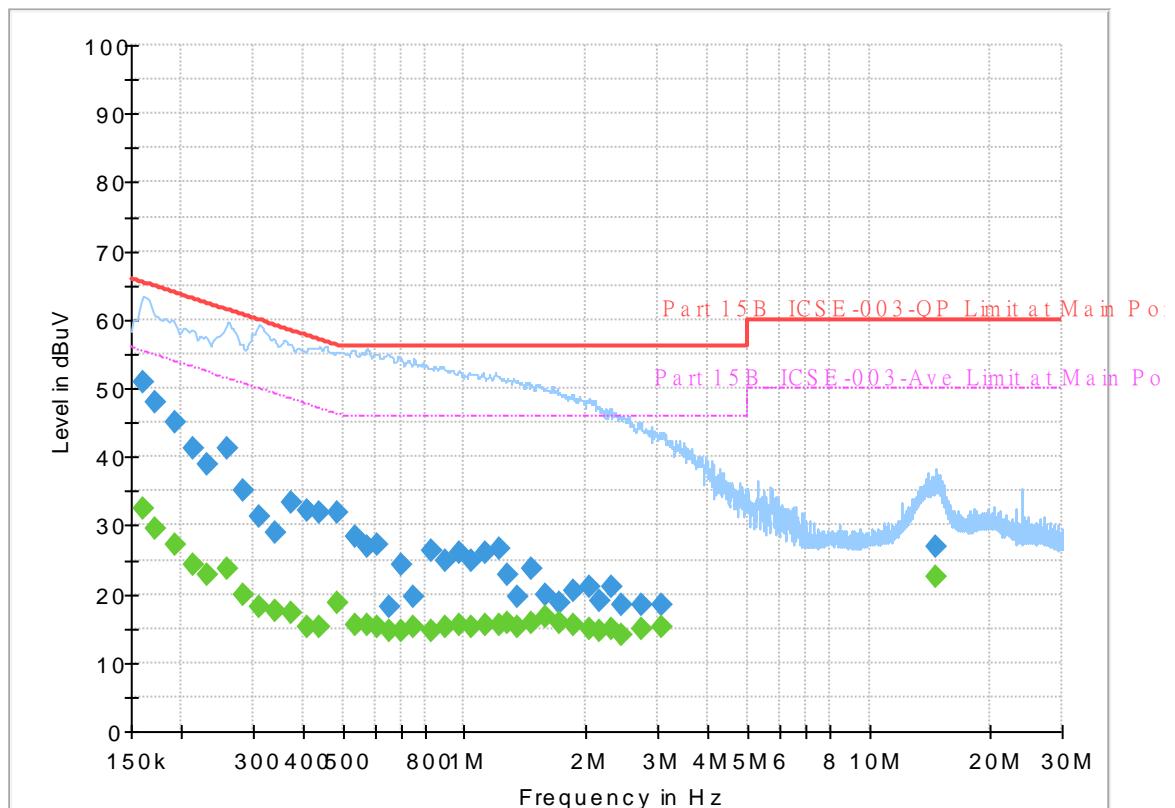


## Appendix A. AC Conducted Emission Test Results

<b>Test Engineer :</b>	Calvin Wang	<b>Temperature :</b>	23~26°C
		<b>Relative Humidity :</b>	45~55%

**EUT Information**

Report NO : 480227  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

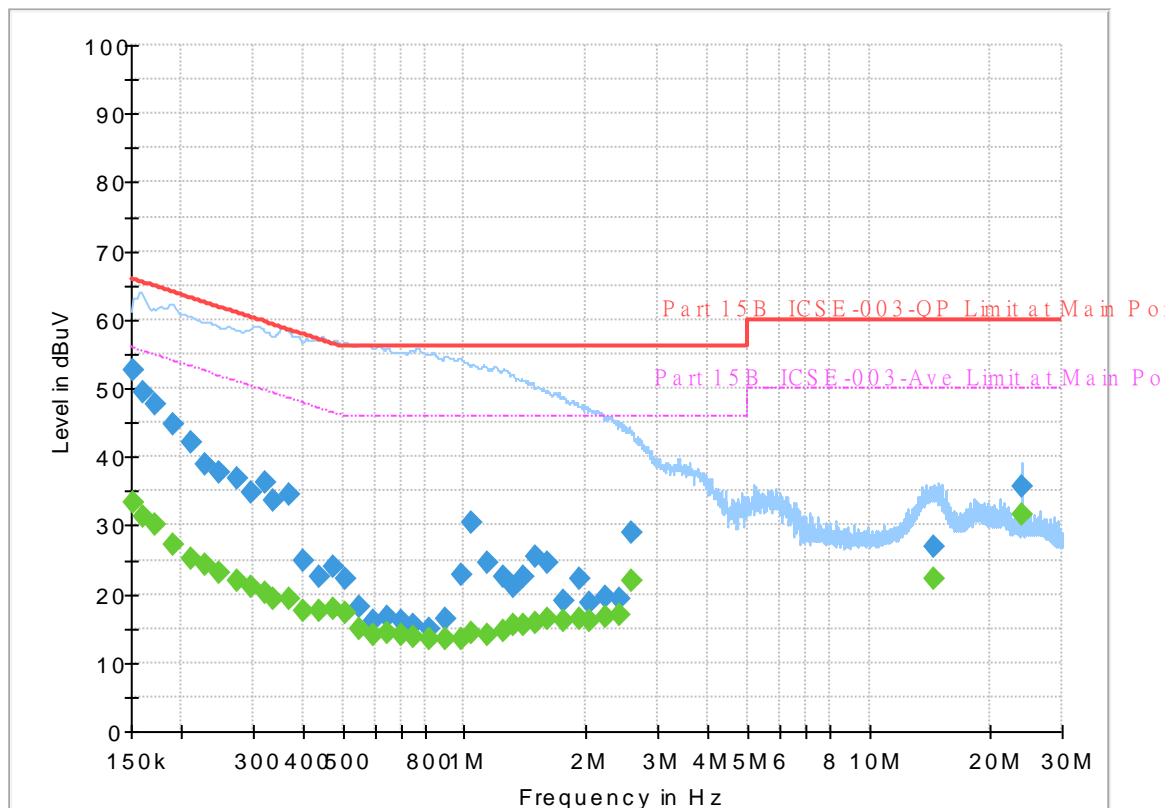
**Full Spectrum****Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	32.56	55.40	22.84	L1	OFF	19.8
0.161250	51.02	---	65.40	14.38	L1	OFF	19.8
0.172500	---	29.54	54.84	25.30	L1	OFF	19.8
0.172500	48.03	---	64.84	16.81	L1	OFF	19.8
0.192750	---	27.27	53.92	26.65	L1	OFF	19.8
0.192750	45.04	---	63.92	18.88	L1	OFF	19.8
0.213000	---	24.13	53.09	28.96	L1	OFF	19.8
0.213000	41.09	---	63.09	22.00	L1	OFF	19.8
0.231000	---	22.68	52.41	29.73	L1	OFF	19.8
0.231000	38.75	---	62.41	23.66	L1	OFF	19.8
0.260250	---	23.54	51.42	27.88	L1	OFF	19.8
0.260250	41.27	---	61.42	20.15	L1	OFF	19.8
0.282750	---	19.74	50.74	31.00	L1	OFF	19.8
0.282750	34.95	---	60.74	25.79	L1	OFF	19.8
0.312000	---	18.22	49.92	31.70	L1	OFF	19.8
0.312000	31.28	---	59.92	28.64	L1	OFF	19.8
0.341250	---	17.52	49.17	31.65	L1	OFF	19.8
0.341250	29.06	---	59.17	30.11	L1	OFF	19.8
0.372750	---	17.24	48.44	31.20	L1	OFF	19.8
0.372750	33.22	---	58.44	25.22	L1	OFF	19.8
0.411000	---	15.16	47.63	32.47	L1	OFF	19.8

0.411000	32.27	---	57.63	25.36	L1	OFF	19.8
0.440250	---	15.31	47.06	31.75	L1	OFF	19.8
0.440250	31.86	---	57.06	25.20	L1	OFF	19.8
0.485250	---	18.62	46.25	27.63	L1	OFF	19.8
0.485250	31.91	---	56.25	24.34	L1	OFF	19.8
0.534750	---	15.44	46.00	30.56	L1	OFF	19.8
0.534750	28.40	---	56.00	27.60	L1	OFF	19.8
0.573000	---	15.45	46.00	30.55	L1	OFF	19.8
0.573000	27.01	---	56.00	28.99	L1	OFF	19.8
0.611250	---	15.09	46.00	30.91	L1	OFF	19.8
0.611250	27.11	---	56.00	28.89	L1	OFF	19.8
0.649500	---	14.51	46.00	31.49	L1	OFF	19.8
0.649500	18.05	---	56.00	37.95	L1	OFF	19.8
0.699000	---	14.57	46.00	31.43	L1	OFF	19.8
0.699000	24.36	---	56.00	31.64	L1	OFF	19.8
0.750750	---	15.19	46.00	30.81	L1	OFF	19.8
0.750750	19.69	---	56.00	36.31	L1	OFF	19.8
0.827250	---	14.75	46.00	31.25	L1	OFF	19.8
0.827250	26.45	---	56.00	29.55	L1	OFF	19.8
0.892500	---	15.23	46.00	30.77	L1	OFF	19.8
0.892500	24.97	---	56.00	31.03	L1	OFF	19.8
0.969000	---	15.42	46.00	30.58	L1	OFF	19.8
0.969000	25.94	---	56.00	30.06	L1	OFF	19.8
1.045500	---	15.33	46.00	30.67	L1	OFF	19.8
1.045500	24.99	---	56.00	31.01	L1	OFF	19.8
1.133250	---	15.51	46.00	30.49	L1	OFF	19.8
1.133250	26.02	---	56.00	29.98	L1	OFF	19.8
1.216500	---	15.55	46.00	30.45	L1	OFF	19.8
1.216500	26.73	---	56.00	29.27	L1	OFF	19.8
1.277250	---	15.85	46.00	30.15	L1	OFF	19.8
1.277250	22.85	---	56.00	33.15	L1	OFF	19.8
1.351500	---	15.35	46.00	30.65	L1	OFF	19.8
1.351500	19.72	---	56.00	36.28	L1	OFF	19.8
1.461750	---	15.84	46.00	30.16	L1	OFF	19.8
1.461750	23.56	---	56.00	32.44	L1	OFF	19.8
1.578750	---	16.59	46.00	29.41	L1	OFF	19.8
1.578750	19.80	---	56.00	36.20	L1	OFF	19.8
1.722750	---	15.91	46.00	30.09	L1	OFF	19.8
1.722750	18.76	---	56.00	37.24	L1	OFF	19.8
1.855500	---	15.47	46.00	30.53	L1	OFF	19.8
1.855500	20.47	---	56.00	35.53	L1	OFF	19.8
2.028750	---	15.04	46.00	30.96	L1	OFF	19.8
2.028750	21.17	---	56.00	34.83	L1	OFF	19.8
2.152500	---	14.56	46.00	31.44	L1	OFF	19.8
2.152500	19.13	---	56.00	36.87	L1	OFF	19.8
2.298750	---	14.81	46.00	31.19	L1	OFF	19.8
2.298750	21.10	---	56.00	34.90	L1	OFF	19.8
2.438250	---	14.11	46.00	31.89	L1	OFF	19.8
2.438250	18.35	---	56.00	37.65	L1	OFF	19.8
2.742000	---	14.87	46.00	31.13	L1	OFF	19.8
2.742000	18.39	---	56.00	37.61	L1	OFF	19.8
3.061500	---	15.16	46.00	30.84	L1	OFF	19.8
3.061500	18.49	---	56.00	37.51	L1	OFF	19.8
14.714250	---	22.37	50.00	27.63	L1	OFF	19.9
14.714250	26.96	---	60.00	33.04	L1	OFF	19.9

**EUT Information**

Report NO : 480227  
 Test Mode : Mode 1  
 Test Voltage : Power From System  
 Phase : Neutral

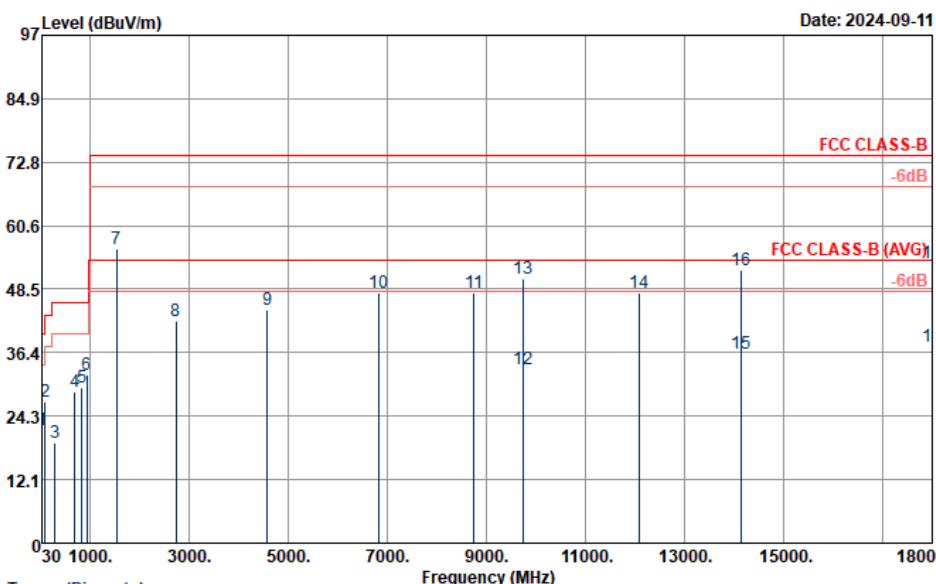
**Full Spectrum****Final Result**

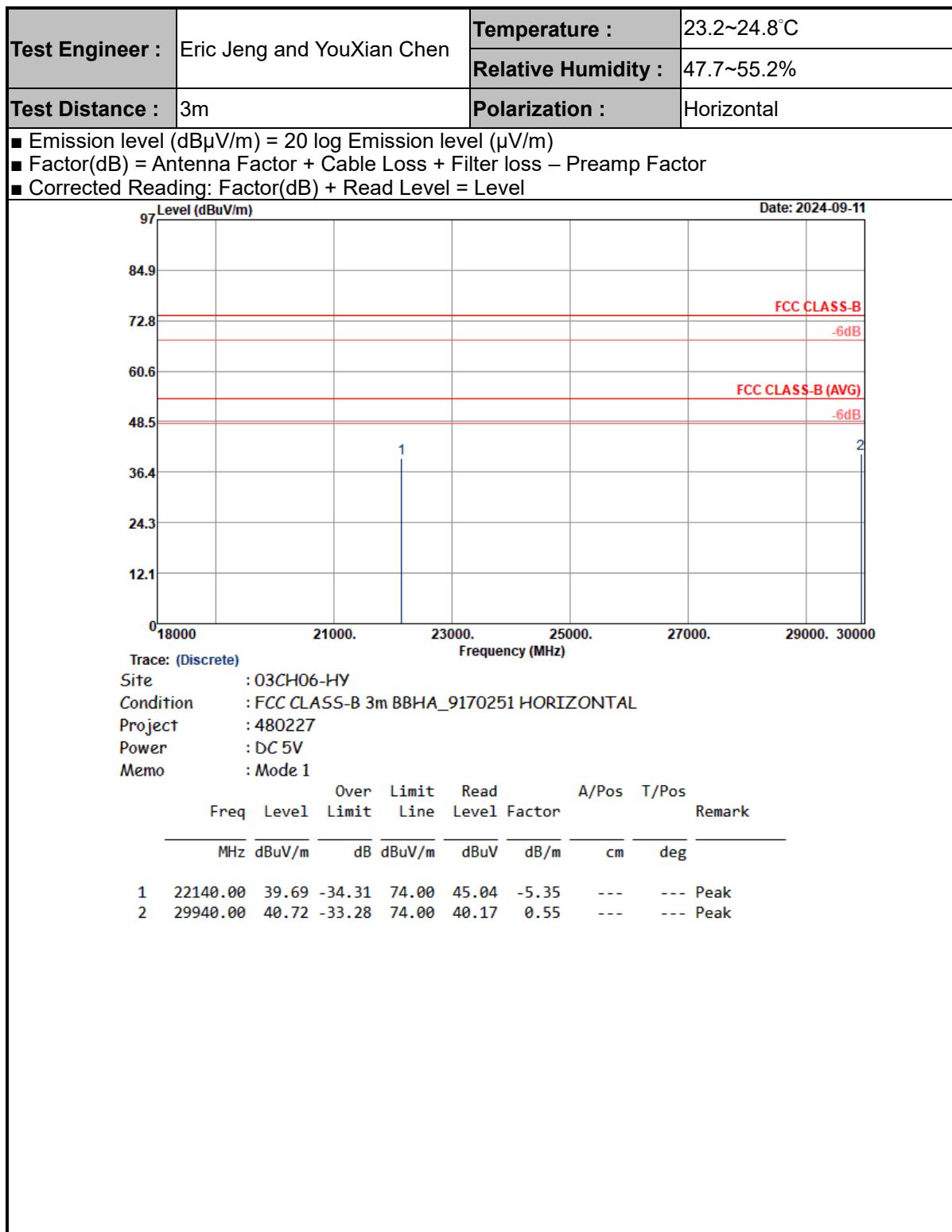
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	33.42	55.88	22.46	N	OFF	19.8
0.152250	52.51	---	65.88	13.37	N	OFF	19.8
0.161250	---	31.34	55.40	24.06	N	OFF	19.8
0.161250	49.32	---	65.40	16.08	N	OFF	19.8
0.172500	---	30.14	54.84	24.70	N	OFF	19.8
0.172500	47.52	---	64.84	17.32	N	OFF	19.8
0.190500	---	27.11	54.02	26.91	N	OFF	19.8
0.190500	44.82	---	64.02	19.20	N	OFF	19.8
0.210750	---	25.11	53.18	28.07	N	OFF	19.8
0.210750	42.19	---	63.18	20.99	N	OFF	19.8
0.228750	---	24.16	52.50	28.34	N	OFF	19.8
0.228750	38.95	---	62.50	23.55	N	OFF	19.8
0.246750	---	22.98	51.87	28.89	N	OFF	19.8
0.246750	37.66	---	61.87	24.21	N	OFF	19.8
0.273750	---	21.80	51.00	29.20	N	OFF	19.8
0.273750	36.95	---	61.00	24.05	N	OFF	19.8
0.296250	---	21.18	50.35	29.17	N	OFF	19.8
0.296250	34.83	---	60.35	25.52	N	OFF	19.8
0.321000	---	20.11	49.68	29.57	N	OFF	19.8
0.321000	36.13	---	59.68	23.55	N	OFF	19.8
0.336750	---	19.36	49.28	29.92	N	OFF	19.8

0.336750	33.53	---	59.28	25.75	N	OFF	19.8
0.368250	---	19.43	48.54	29.11	N	OFF	19.8
0.368250	34.39	---	58.54	24.15	N	OFF	19.8
0.397500	---	17.52	47.91	30.39	N	OFF	19.8
0.397500	24.83	---	57.91	33.08	N	OFF	19.8
0.435750	---	17.43	47.14	29.71	N	OFF	19.8
0.435750	22.48	---	57.14	34.66	N	OFF	19.8
0.476250	---	17.84	46.40	28.56	N	OFF	19.8
0.476250	24.04	---	56.40	32.36	N	OFF	19.8
0.505500	---	17.19	46.00	28.81	N	OFF	19.8
0.505500	22.28	---	56.00	33.72	N	OFF	19.8
0.548250	---	14.90	46.00	31.10	N	OFF	19.8
0.548250	18.04	---	56.00	37.96	N	OFF	19.8
0.597750	---	13.95	46.00	32.05	N	OFF	19.8
0.597750	15.99	---	56.00	40.01	N	OFF	19.8
0.642750	---	14.28	46.00	31.72	N	OFF	19.8
0.642750	16.69	---	56.00	39.31	N	OFF	19.8
0.701250	---	13.98	46.00	32.02	N	OFF	19.8
0.701250	16.03	---	56.00	39.97	N	OFF	19.8
0.748500	---	13.67	46.00	32.33	N	OFF	19.8
0.748500	15.52	---	56.00	40.48	N	OFF	19.8
0.820500	---	13.35	46.00	32.65	N	OFF	19.8
0.820500	15.04	---	56.00	40.96	N	OFF	19.8
0.894750	---	13.32	46.00	32.68	N	OFF	19.8
0.894750	16.37	---	56.00	39.63	N	OFF	19.8
0.980250	---	13.57	46.00	32.43	N	OFF	19.8
0.980250	22.69	---	56.00	33.31	N	OFF	19.8
1.045500	---	14.22	46.00	31.78	N	OFF	19.8
1.045500	30.30	---	56.00	25.70	N	OFF	19.8
1.135500	---	13.92	46.00	32.08	N	OFF	19.8
1.135500	24.56	---	56.00	31.44	N	OFF	19.8
1.245750	---	14.48	46.00	31.52	N	OFF	19.8
1.245750	22.54	---	56.00	33.46	N	OFF	19.8
1.322250	---	15.58	46.00	30.42	N	OFF	19.8
1.322250	21.02	---	56.00	34.98	N	OFF	19.8
1.392000	---	15.39	46.00	30.61	N	OFF	19.8
1.392000	22.50	---	56.00	33.50	N	OFF	19.8
1.506750	---	15.67	46.00	30.33	N	OFF	19.8
1.506750	25.52	---	56.00	30.48	N	OFF	19.8
1.608000	---	16.38	46.00	29.62	N	OFF	19.8
1.608000	24.52	---	56.00	31.48	N	OFF	19.8
1.761000	---	16.21	46.00	29.79	N	OFF	19.8
1.761000	18.99	---	56.00	37.01	N	OFF	19.8
1.918500	---	16.48	46.00	29.52	N	OFF	19.8
1.918500	22.28	---	56.00	33.72	N	OFF	19.8
2.040000	---	16.14	46.00	29.86	N	OFF	19.8
2.040000	18.65	---	56.00	37.35	N	OFF	19.8
2.242500	---	16.67	46.00	29.33	N	OFF	19.8
2.242500	19.45	---	56.00	36.55	N	OFF	19.8
2.418000	---	16.82	46.00	29.18	N	OFF	19.8
2.418000	19.30	---	56.00	36.70	N	OFF	19.8
2.602500	---	22.02	46.00	23.98	N	OFF	19.8
2.602500	28.91	---	56.00	27.09	N	OFF	19.8
14.496000	---	22.31	50.00	27.69	N	OFF	20.0
14.496000	26.82	---	60.00	33.18	N	OFF	20.0
23.997750	---	31.69	50.00	18.31	N	OFF	20.1
23.997750	35.69	---	60.00	24.31	N	OFF	20.1



## Appendix B. Radiated Emission Test Result

<b>Test Engineer :</b>	Eric Jeng and YouXian Chen	<b>Temperature :</b>	23.2~24.8°C																																																																																																																																																																																																							
		<b>Relative Humidity :</b>	47.7~55.2%																																																																																																																																																																																																							
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 <p>Level (dBuV/m)</p> <p>Date: 2024-09-11</p> <p>Trace: (Discrete)</p> <p>Site : 03CH06-HY</p> <p>Condition : FCC CLASS-B 3m 9120D_1212 HORIZONTAL</p> <p>Project : 480227</p> <p>Power : DC 5V</p> <p>Mode : Mode 1</p>																																																																																																																																																																																																										
<table border="1"> <thead> <tr> <th rowspan="2">Freq</th> <th rowspan="2">Level</th> <th>Over</th> <th>Limit</th> <th>Read</th> <th rowspan="2">A/Pos</th> <th rowspan="2">T/Pos</th> <th rowspan="2">Remark</th> </tr> <tr> <th>Line</th> <th>Level</th> <th>Factor</th> </tr> </thead> <tbody> <tr> <td>MHz</td> <td>dB<math>\mu</math>V/m</td> <td>dB</td> <td>dBuV/m</td> <td>dBuV</td> <td>dB/m</td> <td>cm</td> <td>deg</td> </tr> <tr> <td>1</td> <td>31.08</td> <td>21.53</td> <td>-18.47</td> <td>40.00</td> <td>28.73</td> <td>-7.20</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>91.02</td> <td>26.91</td> <td>-16.59</td> <td>43.50</td> <td>42.11</td> <td>-15.20</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>292.98</td> <td>19.12</td> <td>-26.88</td> <td>46.00</td> <td>28.80</td> <td>-9.68</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>691.30</td> <td>28.97</td> <td>-17.03</td> <td>46.00</td> <td>30.22</td> <td>-1.25</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>834.10</td> <td>29.59</td> <td>-16.41</td> <td>46.00</td> <td>27.97</td> <td>1.62</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>934.90</td> <td>32.12</td> <td>-13.88</td> <td>46.00</td> <td>28.23</td> <td>3.89</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>7</td> <td>1542.00</td> <td>56.29</td> <td></td> <td></td> <td>86.61</td> <td>-30.32</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>8</td> <td>2736.00</td> <td>42.30</td> <td>-31.70</td> <td>74.00</td> <td>65.80</td> <td>-23.50</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>9</td> <td>4580.00</td> <td>44.61</td> <td>-29.39</td> <td>74.00</td> <td>63.44</td> <td>-18.83</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>10</td> <td>6826.00</td> <td>47.81</td> <td>-26.19</td> <td>74.00</td> <td>60.41</td> <td>-12.60</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>11</td> <td>8756.00</td> <td>47.72</td> <td>-26.28</td> <td>74.00</td> <td>57.41</td> <td>-9.69</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>12</td> <td>9744.00</td> <td>33.28</td> <td>-20.72</td> <td>54.00</td> <td>41.31</td> <td>-8.03</td> <td>100</td> <td>224</td> <td>Average</td> </tr> <tr> <td>13</td> <td>9744.00</td> <td>50.61</td> <td>-23.39</td> <td>74.00</td> <td>58.64</td> <td>-8.03</td> <td>100</td> <td>224</td> <td>Peak</td> </tr> <tr> <td>14</td> <td>12098.00</td> <td>47.91</td> <td>-26.09</td> <td>74.00</td> <td>53.57</td> <td>-5.66</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>15</td> <td>14146.00</td> <td>36.12</td> <td>-17.88</td> <td>54.00</td> <td>37.71</td> <td>-1.59</td> <td>100</td> <td>66</td> <td>Average</td> </tr> <tr> <td>16</td> <td>14146.00</td> <td>52.12</td> <td>-21.88</td> <td>74.00</td> <td>53.71</td> <td>-1.59</td> <td>100</td> <td>66</td> <td>Peak</td> </tr> <tr> <td>17</td> <td>17998.00</td> <td>37.66</td> <td>-16.34</td> <td>54.00</td> <td>30.90</td> <td>6.76</td> <td>100</td> <td>21</td> <td>Average</td> </tr> <tr> <td>18</td> <td>17998.00</td> <td>53.56</td> <td>-20.44</td> <td>74.00</td> <td>46.80</td> <td>6.76</td> <td>100</td> <td>21</td> <td>Peak</td> </tr> </tbody> </table>				Freq	Level	Over	Limit	Read	A/Pos	T/Pos	Remark	Line	Level	Factor	MHz	dB $\mu$ V/m	dB	dBuV/m	dBuV	dB/m	cm	deg	1	31.08	21.53	-18.47	40.00	28.73	-7.20	---	---	Peak	2	91.02	26.91	-16.59	43.50	42.11	-15.20	---	---	Peak	3	292.98	19.12	-26.88	46.00	28.80	-9.68	---	---	Peak	4	691.30	28.97	-17.03	46.00	30.22	-1.25	---	---	Peak	5	834.10	29.59	-16.41	46.00	27.97	1.62	---	---	Peak	6	934.90	32.12	-13.88	46.00	28.23	3.89	---	---	Peak	7	1542.00	56.29			86.61	-30.32	---	---	Peak	8	2736.00	42.30	-31.70	74.00	65.80	-23.50	---	---	Peak	9	4580.00	44.61	-29.39	74.00	63.44	-18.83	---	---	Peak	10	6826.00	47.81	-26.19	74.00	60.41	-12.60	---	---	Peak	11	8756.00	47.72	-26.28	74.00	57.41	-9.69	---	---	Peak	12	9744.00	33.28	-20.72	54.00	41.31	-8.03	100	224	Average	13	9744.00	50.61	-23.39	74.00	58.64	-8.03	100	224	Peak	14	12098.00	47.91	-26.09	74.00	53.57	-5.66	---	---	Peak	15	14146.00	36.12	-17.88	54.00	37.71	-1.59	100	66	Average	16	14146.00	52.12	-21.88	74.00	53.71	-1.59	100	66	Peak	17	17998.00	37.66	-16.34	54.00	30.90	6.76	100	21	Average	18	17998.00	53.56	-20.44	74.00	46.80	6.76	100	21	Peak
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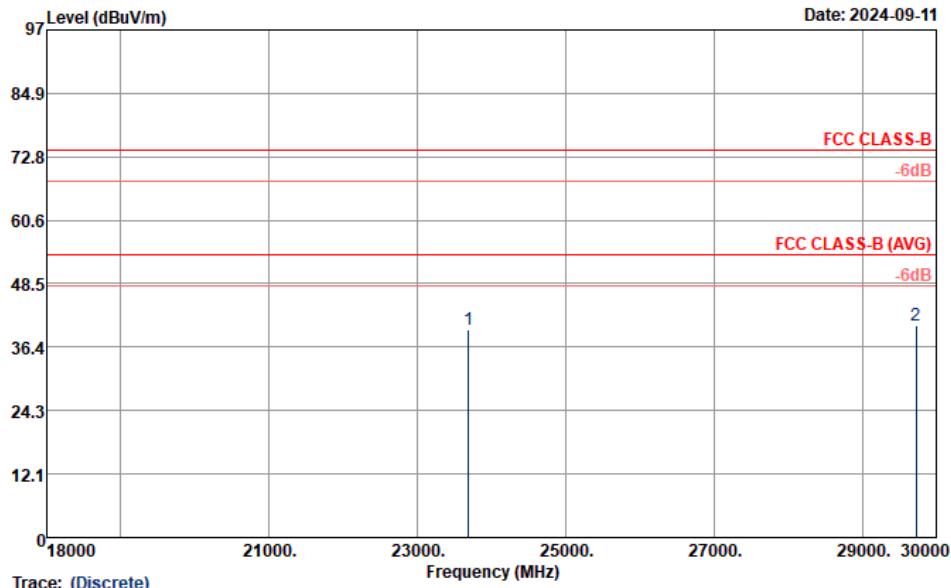




<b>Test Engineer :</b>	Eric Jeng and YouXian Chen	<b>Temperature :</b>	23.2~24.8°C																																																																																																																																																																																																																
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<p>Site : 03CH06-HY</p> <p>Condition : FCC CLASS-B 3m 9120D_1212 VERTICAL</p> <p>Project : 480227</p> <p>Power : DC 5V</p> <p>Mode : Mode 1</p>																																																																																																																																																																																																																			
<table border="1"> <thead> <tr> <th rowspan="2">Freq</th> <th rowspan="2">Level</th> <th>Over</th> <th>Limit</th> <th>Read</th> <th rowspan="2">A/Pos</th> <th rowspan="2">T/Pos</th> <th rowspan="2">Remark</th> </tr> <tr> <th>Line</th> <th>Factor</th> </tr> </thead> <tbody> <tr> <td>MHz</td> <td>dB<math>\mu</math>V/m</td> <td>dB</td> <td>dBuV/m</td> <td>dBuV</td> <td>dB/m</td> <td>cm</td> <td>deg</td> </tr> <tr> <td>1</td> <td>35.13</td> <td>25.81</td> <td>-14.19</td> <td>40.00</td> <td>34.74</td> <td>-8.93</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>59.97</td> <td>25.52</td> <td>-14.48</td> <td>40.00</td> <td>44.42</td> <td>-18.90</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>3</td> <td>91.02</td> <td>35.64</td> <td>-7.86</td> <td>43.50</td> <td>50.84</td> <td>-15.20</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>4</td> <td>749.40</td> <td>29.07</td> <td>-16.93</td> <td>46.00</td> <td>28.76</td> <td>0.31</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>5</td> <td>816.60</td> <td>30.52</td> <td>-15.48</td> <td>46.00</td> <td>29.24</td> <td>1.28</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>6</td> <td>941.20</td> <td>32.11</td> <td>-13.89</td> <td>46.00</td> <td>28.16</td> <td>3.95</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>7</td> <td>1542.00</td> <td>56.57</td> <td></td> <td></td> <td>86.89</td> <td>-30.32</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>8</td> <td>2542.00</td> <td>41.28</td> <td>-32.72</td> <td>/4.00</td> <td>65.76</td> <td>-24.48</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>9</td> <td>3190.00</td> <td>45.62</td> <td>-28.38</td> <td>74.00</td> <td>66.91</td> <td>-21.29</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>10</td> <td>6438.00</td> <td>47.55</td> <td>-26.45</td> <td>74.00</td> <td>60.91</td> <td>-13.36</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>11</td> <td>7786.00</td> <td>47.97</td> <td>-26.03</td> <td>74.00</td> <td>59.57</td> <td>-11.60</td> <td>---</td> <td>---</td> <td>Peak</td> </tr> <tr> <td>12</td> <td>9660.00</td> <td>32.22</td> <td>-21.78</td> <td>54.00</td> <td>40.00</td> <td>-7.78</td> <td>100</td> <td>176</td> <td>Average</td> </tr> <tr> <td>13</td> <td>9660.00</td> <td>49.59</td> <td>-24.41</td> <td>74.00</td> <td>57.37</td> <td>-7.78</td> <td>100</td> <td>176</td> <td>Peak</td> </tr> <tr> <td>14</td> <td>12898.00</td> <td>34.66</td> <td>-19.34</td> <td>54.00</td> <td>38.50</td> <td>-3.84</td> <td>100</td> <td>101</td> <td>Average</td> </tr> <tr> <td>15</td> <td>12898.00</td> <td>50.10</td> <td>-23.90</td> <td>74.00</td> <td>53.94</td> <td>-3.84</td> <td>100</td> <td>101</td> <td>Peak</td> </tr> <tr> <td>16</td> <td>14168.00</td> <td>35.76</td> <td>-18.24</td> <td>54.00</td> <td>37.30</td> <td>-1.54</td> <td>100</td> <td>55</td> <td>Average</td> </tr> <tr> <td>17</td> <td>14168.00</td> <td>51.76</td> <td>-22.24</td> <td>74.00</td> <td>53.30</td> <td>-1.54</td> <td>100</td> <td>55</td> <td>Peak</td> </tr> <tr> <td>18</td> <td>17980.00</td> <td>37.21</td> <td>-16.79</td> <td>54.00</td> <td>30.55</td> <td>6.66</td> <td>100</td> <td>223</td> <td>Average</td> </tr> <tr> <td>19</td> <td>17980.00</td> <td>53.45</td> <td>-20.55</td> <td>74.00</td> <td>46.79</td> <td>6.66</td> <td>100</td> <td>223</td> <td>Peak</td> </tr> </tbody> </table>				Freq	Level	Over	Limit	Read	A/Pos	T/Pos	Remark	Line	Factor	MHz	dB $\mu$ V/m	dB	dBuV/m	dBuV	dB/m	cm	deg	1	35.13	25.81	-14.19	40.00	34.74	-8.93	---	---	Peak	2	59.97	25.52	-14.48	40.00	44.42	-18.90	---	---	Peak	3	91.02	35.64	-7.86	43.50	50.84	-15.20	---	---	Peak	4	749.40	29.07	-16.93	46.00	28.76	0.31	---	---	Peak	5	816.60	30.52	-15.48	46.00	29.24	1.28	---	---	Peak	6	941.20	32.11	-13.89	46.00	28.16	3.95	---	---	Peak	7	1542.00	56.57			86.89	-30.32	---	---	Peak	8	2542.00	41.28	-32.72	/4.00	65.76	-24.48	---	---	Peak	9	3190.00	45.62	-28.38	74.00	66.91	-21.29	---	---	Peak	10	6438.00	47.55	-26.45	74.00	60.91	-13.36	---	---	Peak	11	7786.00	47.97	-26.03	74.00	59.57	-11.60	---	---	Peak	12	9660.00	32.22	-21.78	54.00	40.00	-7.78	100	176	Average	13	9660.00	49.59	-24.41	74.00	57.37	-7.78	100	176	Peak	14	12898.00	34.66	-19.34	54.00	38.50	-3.84	100	101	Average	15	12898.00	50.10	-23.90	74.00	53.94	-3.84	100	101	Peak	16	14168.00	35.76	-18.24	54.00	37.30	-1.54	100	55	Average	17	14168.00	51.76	-22.24	74.00	53.30	-1.54	100	55	Peak	18	17980.00	37.21	-16.79	54.00	30.55	6.66	100	223	Average	19	17980.00	53.45	-20.55	74.00	46.79	6.66	100	223	Peak
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<b>Test Engineer :</b>	Eric Jeng and YouXian Chen	<b>Temperature :</b>	23.2~24.8°C
		<b>Relative Humidity :</b>	47.7~55.2%
<b>Test Distance :</b>	3m	<b>Polarization :</b>	Vertical
■ Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)			
■ Factor(dB) = Antenna Factor + Cable Loss + Filter loss – Preamp Factor			
■ Corrected Reading: Factor(dB) + Read Level = Level			



Site : 03CH06-HY  
Condition : FCC CLASS-B 3m BBHA\_9170251 VERTICAL  
Project : 480227  
Power : DC 5V  
Memo : Mode 1

Freq	Level	Over	Limit	Read	A/Pos	T/Pos	Remark		
		Freq	Limit	Line					
	MHz	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB $\mu$ V	dB/m	cm	deg	
1	23688.00	39.75	-34.25	74.00	41.36	-1.61	---	---	Peak
2	29724.00	40.65	-33.35	74.00	40.08	0.57	---	---	Peak