



TEST REPORT

Applicant Name : Senbiosys SA
Address : Route des Gouttes-d'Or 40, 2000 Neuchâtel, Switzerland
Report Number : 2504V70512E-RF-00A
FCC ID: 2BKA5-SBDV02ME

Test Standard (s)

FCC PART 18

Sample Description

Product Type: dock
Model No.: Charger US6
Trade Mark: VELIA
Date Received: 2025-07-27
Date of Test: 2025-07-28 to 2025-07-30
Report Date: 2025-07-31

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

Roger Ling
EMC Engineer

Approved By:

Bob.Liao
EMC Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504V70512E-RF-00A	Original Report	2025-07-31

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	dock
Tested Model	Charger US6
Type	WPT
Highest Operating Frequency [#]	609-619kHz
Input Voltage [#]	DC 5 V
Wireless Output Power [#]	0.55 Watts
Sample Serial Number	370P-1 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This report is in accordance with Part 2-Subpart J, and Part 18-Subparts A, B and C of the Federal Communication Commissions rules and regulations.

The objective of the manufacturer is to determine compliance with FCC Part 18 subpart C limits.

Test Methodology

All measurements contained in this report were conducted with MP-5, FCC Methods of Measurements of Radio Noise Emissions from ISM Equipment, February 1986.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Measurement Uncertainty

Parameter		Uncertainty
AC Power Lines Conducted Emissions	9kHz-30MHz	2.7 dB(<i>k</i> =2, 95% level of confidence)
Radiated Emission	9kHz - 30MHz	2.1 dB(<i>k</i> =2, 95% level of confidence)
	30MHz - 1GHz	4.3 dB(<i>k</i> =2, 95% level of confidence)

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

OPERATING CONDITION/TEST CONFIGURATION

Description of Test Configuration

The EUT was operated at maximum (continuous) RF output power.

Test Mode: Working (Wireless charging, full load)

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory was used.

Equipment Modifications

No modifications were made to the EUT tested.

Support Equipment List and Details

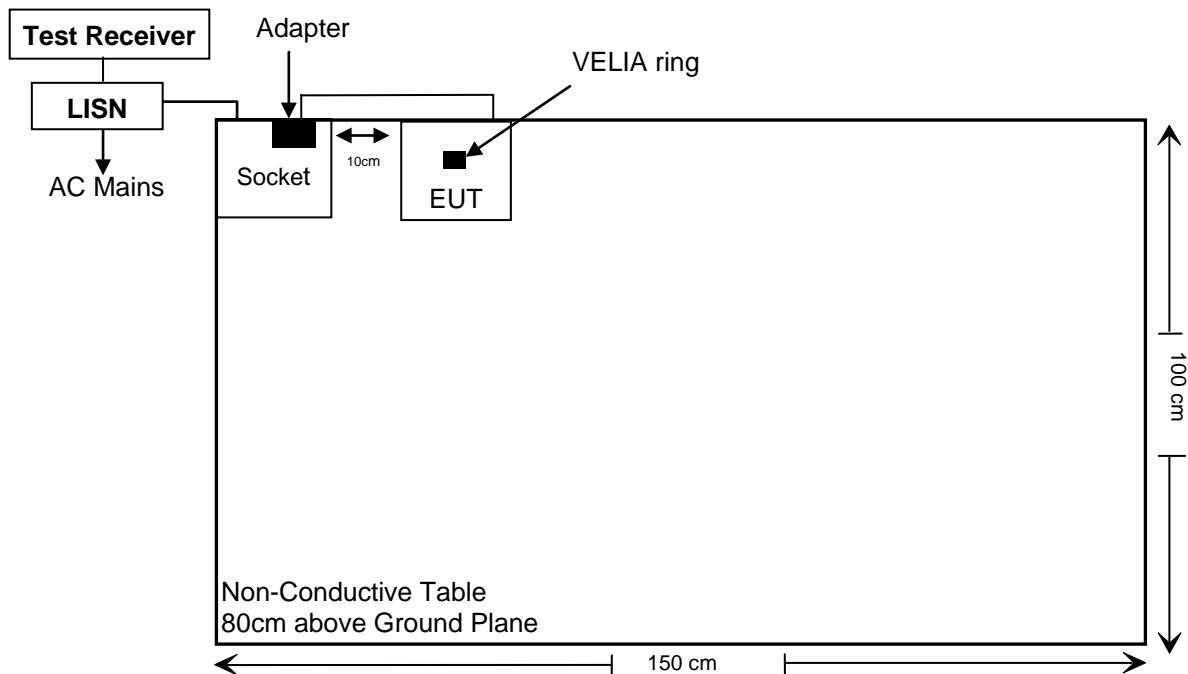
Manufacturer	Description	Model	Serial Number
Zhongshan MLS Electrical Appliance Co., LTD	Adapter Input: 100-240V~ 50/60Hz Output: 5.0V	M20-C020AEU	Unknown
Senbiosys SA	VELIA ring [#]	US10	Unknown

External I/O Cable

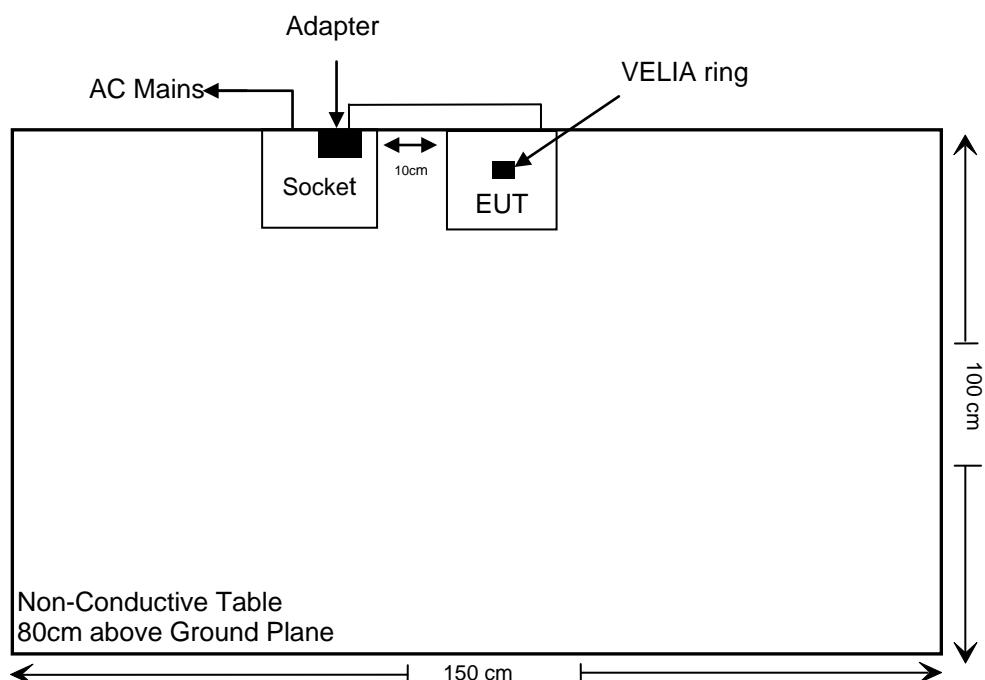
Cable Description	Shielding Type	Length (m)	From Port	To
TYPE-C Cable	NO	1.0	Adapter	EUT

Block Diagram of Test Setup

For Conducted Emission:



For Radiated Emission:



SUMMARY OF TEST RESULT

FCC Rules	Description of Test	Results
FCC§1.1310 & §2.1091	Maximum Permissible Exposure(MPE)	Compliance*
FCC §18.307	AC Line Conducted Emissions	Compliance
FCC §18.305	Radiated Emissions	Compliance

Compliance*: Please refer to the MPE report: 2501T60786E-RF-00.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2024/11/08	2025/11/07
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2024/11/08	2025/11/07
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2024/10/08	2025/10/07
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	100312	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.17	N0350	2024/10/08	2025/10/07
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test (Below 1GHz)					
Rohde & Schwarz	Test Receiver	ESR	102725	2024/11/08	2025/11/07
SONOMA INSTRUMENT	Amplifier	310 N	186131	2025/03/26	2026/03/25
Unknown	RF Coaxial Cable	No.12	N040	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.13	N300	2024/10/08	2025/10/07
Unknown	RF Coaxial Cable	No.14	N800	2024/10/08	2025/10/07
BACL	LOOP ANTENNA	1313-1A	3110711	2024/01/16	2027/01/15
Schwarzbeck	Bilog Antenna	VULB9163	9163-194	2023/02/14	2026/02/13
Test Software: e3 191218 (V9)					

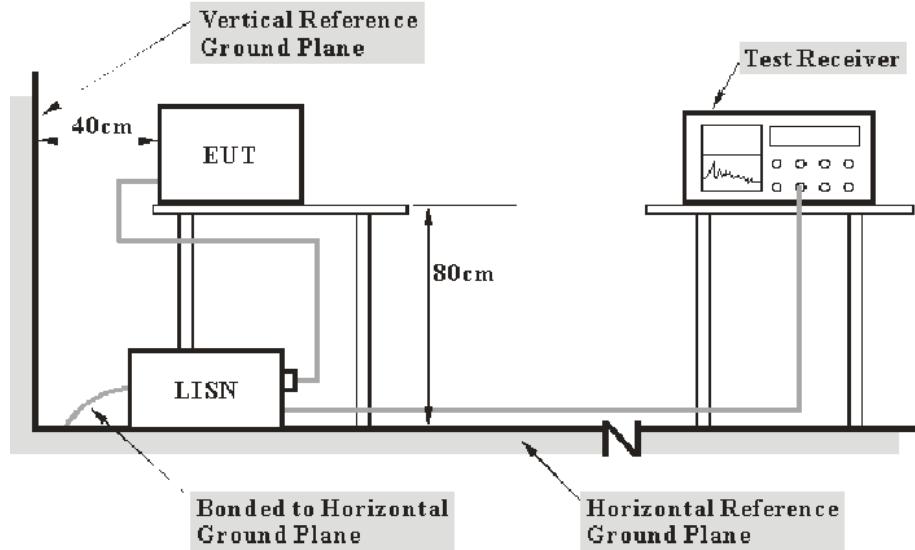
*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

CONDUCTED EMISSIONS

Applicable Standard

FCC §18.307(b)

EUT Setup



Note:

1. Support units were connected to second LISN.
2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18.

The socket was connected to a 120 V_{AC}/ 60Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 9 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
9 kHz – 150 kHz	200Hz
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Calculation

The Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Limiter Attenuation. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + 10\text{dB Attenuation(Limiter)}$$

The “Over limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

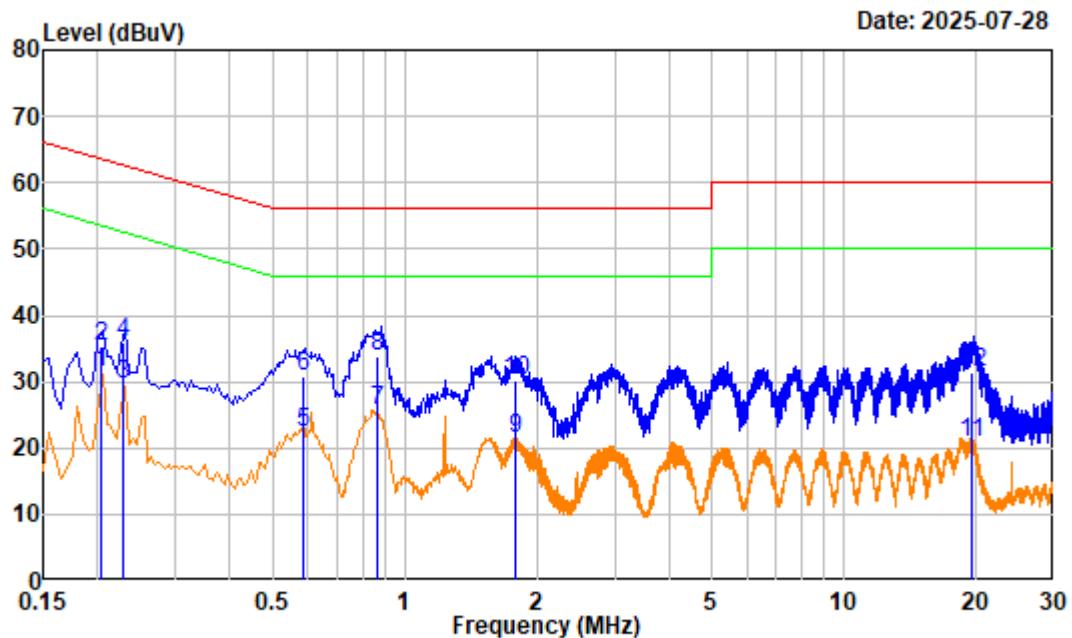
Test Data

Environmental Conditions

Temperature:	23.6 °C
Relative Humidity:	39 %
ATM Pressure:	100.1 kPa
Test Engineer:	Jason Fan
Test Date:	2025-07-28
EUT Operation Mode:	Working

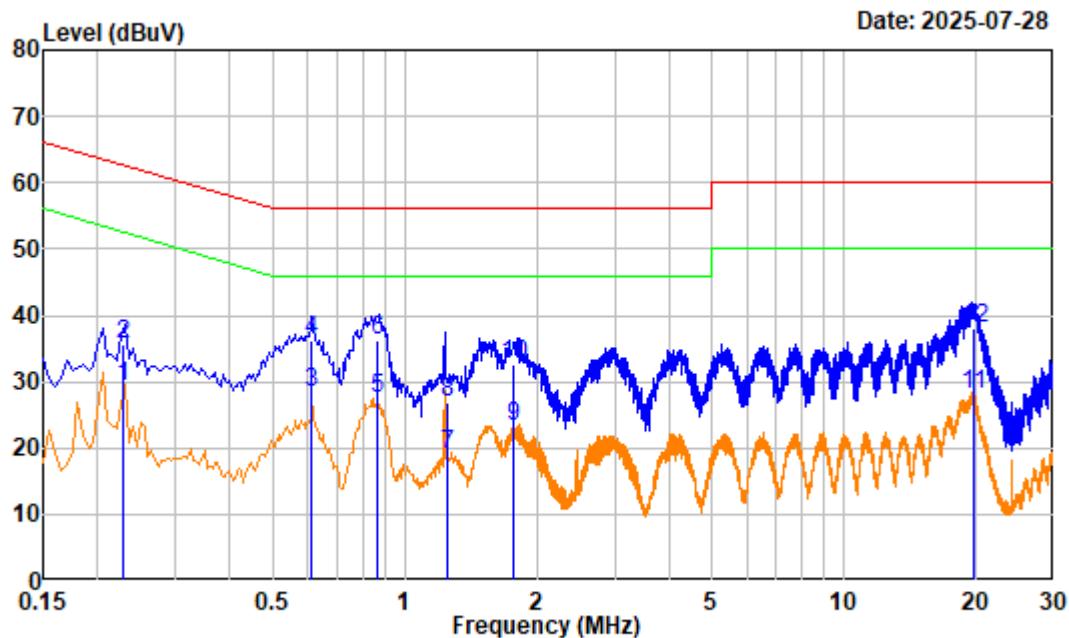
Test Result: Compliance, please refer to the below data.

AC 120V/60Hz, Line:



Site : Shielding Room
 Condition: Line
 Job No. : 2504V70512E-RF
 Test Mode: Working
 Tester : Jason Fan
 Setting : IF B/W 9kHz PK/AV

Freq	Factor	Read		Limit		Over Limit	Remark
		MHz	dB	dBuV	dBuV		
1	0.204	19.99	11.33	31.32	53.46	-22.14	Average
2	0.204	19.99	15.37	35.36	63.46	-28.10	QP
3	0.229	19.97	9.69	29.66	52.49	-22.83	Average
4	0.229	19.97	15.90	35.87	62.49	-26.62	QP
5	0.589	20.14	2.33	22.47	46.00	-23.53	Average
6	0.589	20.14	10.77	30.91	56.00	-25.09	QP
7	0.866	20.24	5.42	25.66	46.00	-20.34	Average
8	0.866	20.24	13.58	33.82	56.00	-22.18	QP
9	1.790	20.48	1.09	21.57	46.00	-24.43	Average
10	1.790	20.48	9.70	30.18	56.00	-25.82	QP
11	19.441	23.90	-3.09	20.81	50.00	-29.19	Average
12	19.441	23.90	7.42	31.32	60.00	-28.68	QP

AC 120V/60Hz, Neutral:

Site : Shielding Room
Condition: neutral
Job No. : 2504V70512E-RF
Test Mode: Working
Tester : Jason Fan
Setting : IF B/W 9kHz PK/AV

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB	Level	dBuV	Line	dB
1	0.229	19.93	19.46	29.39	52.49	-23.10	Average
2	0.229	19.93	15.67	35.60	62.49	-26.89	QP
3	0.615	20.06	8.31	28.37	46.00	-17.63	Average
4	0.615	20.06	16.26	36.32	56.00	-19.68	QP
5	0.867	20.30	7.03	27.33	46.00	-18.67	Average
6	0.867	20.30	16.07	36.37	56.00	-19.63	QP
7	1.254	20.61	-1.58	19.03	46.00	-26.97	Average
8	1.254	20.61	6.24	26.85	56.00	-29.15	QP
9	1.772	20.83	2.35	23.18	46.00	-22.82	Average
10	1.772	20.83	11.71	32.54	56.00	-23.46	QP
11	19.681	23.99	3.97	27.96	50.00	-22.04	Average
12	19.681	23.99	13.90	37.89	60.00	-22.11	QP

RADIATED EMISSIONS

Applicable Standard

FCC §18.305

(a) ISM equipment operating on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (μ V/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25 × $\text{SQRT}(\text{power}/500)$	300 1,300
	Any non-ISM frequency	Below 500 500 or more	15 15 × $\text{SQRT}(\text{power}/500)$	300 1,300
Industrial heaters and RF stabilized arc welders	On or below 5.725 MHz Above 5.725 MHz	Any Any	10 (²)	1,600 (²)
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
Ultrasonic	Below 490 kHz	Below 500 500 or more	$2,400/\text{F(kHz)}$ $2,400/\text{F(kHz)} ×$ $\text{SQRT}(\text{power}/500)$	300 3,300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	$24,000/\text{F(kHz)}$ 15	30 30
Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	4,300 4,300

¹Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

²Reduced to the greatest extent possible.

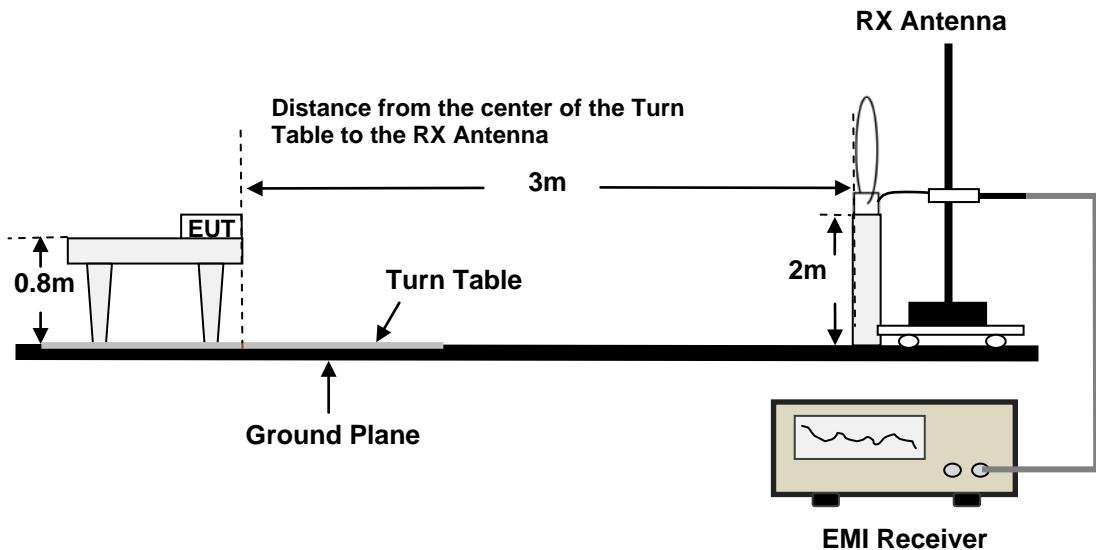
³Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

Emission level dB μ V / m for 0.009~1000Mhz = $20\log (25) + 20\log (300/3)$ dB μ V / m

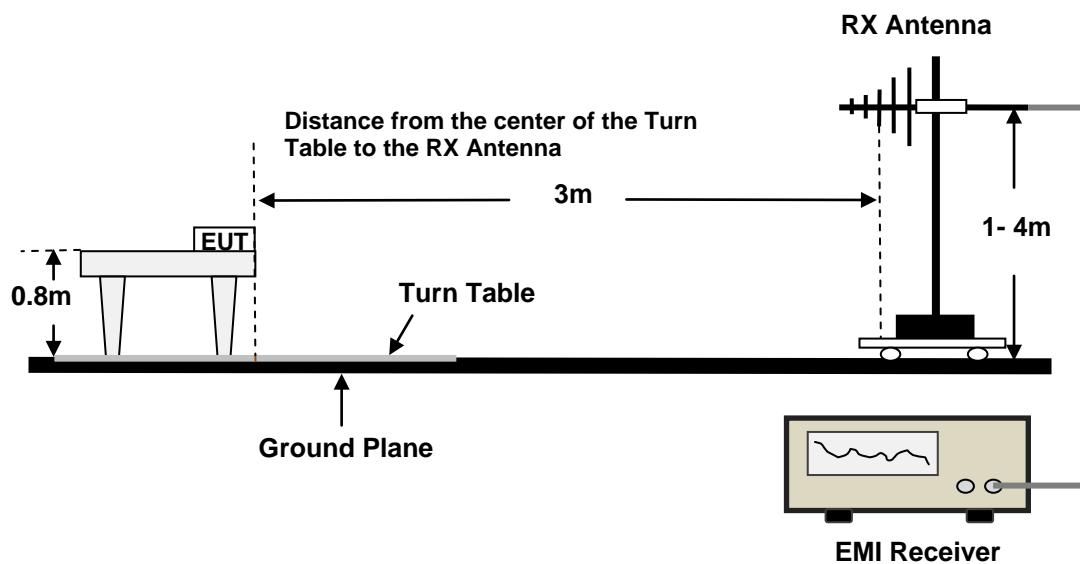
⁴Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

EUT Setup

9kHz - 30MHz:



30MHz - 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the FCC MP - 5. The specification used was the FCC part 18 limits.

The socket was connected to 120 V_{AC}/60 Hz power source.

Frequency range of measurements(FCC §18.309(a))

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1000	Lowest frequency generated in the device or 100 MHz, whichever is lower	Tenth harmonic.
Above 1000do	Tenth harmonic or highest detectable emission.

EMI Test Receiver Setup

The system was investigated from 9kHz to 1GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	Measurement	RBW	Video B/W	IF B/W
9 kHz -150 kHz	PK	300 Hz	1 kHz	/
150 kHz - 30 MHz	PK	10 kHz	30 kHz	/
30 MHz - 1000 MHz	PK	100 kHz	300 kHz	/
	QP	/	/	120kHz

Note 1: For below 1GHz testing, if the maximized peak measured value complies with the limit, then it is unnecessary to perform QP measurement.

Note 2: Other emissions which were more than 20dB below to the limit or on noise floor level was not recorded.

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure that the EUT complied with all installation combinations.

Corrected Amplitude & Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

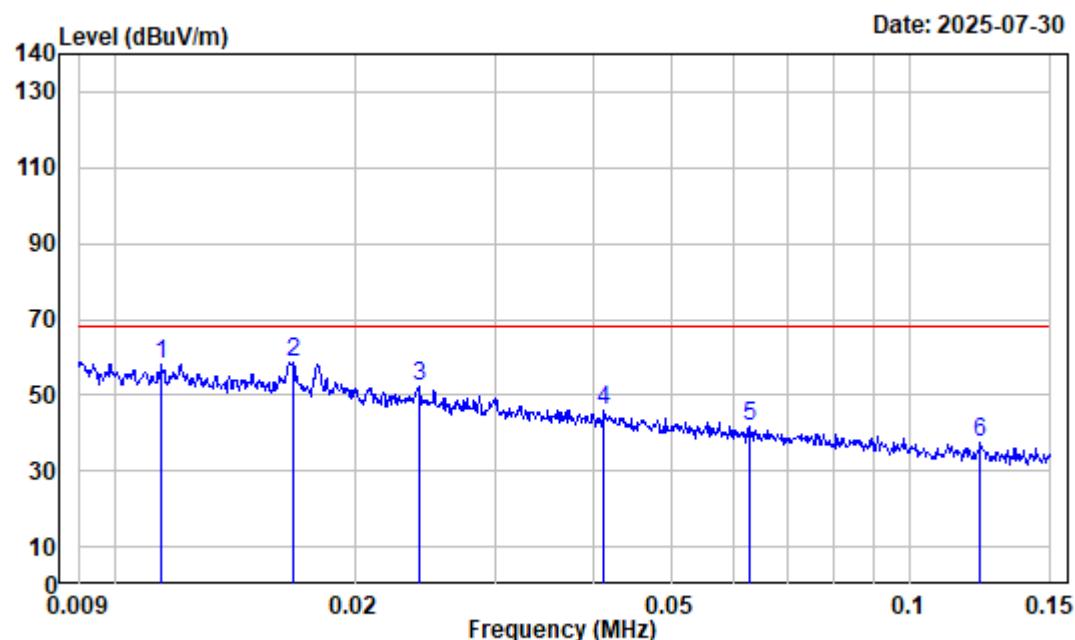
Test Data

Environmental Conditions

Temperature:	23.7 °C
Relative Humidity:	56 %
ATM Pressure:	100.1 kPa
Test Engineer:	Colin Lin
Test Date:	2025-07-30
EUT Operation Mode:	Working

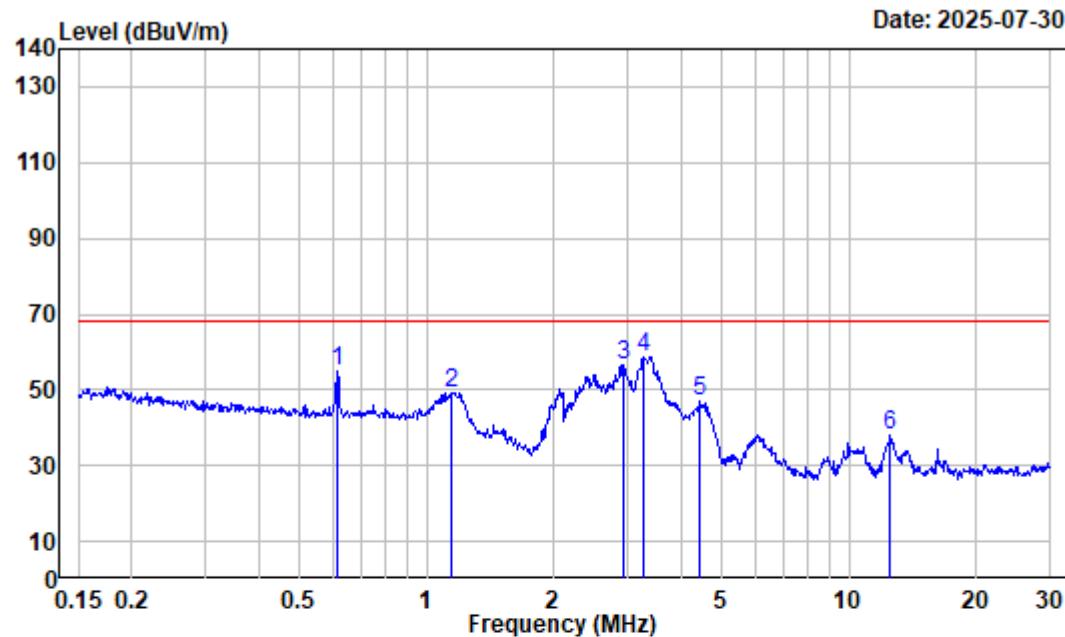
Test Result: Compliance, please refer to the below data.

9kHz~30MHz:



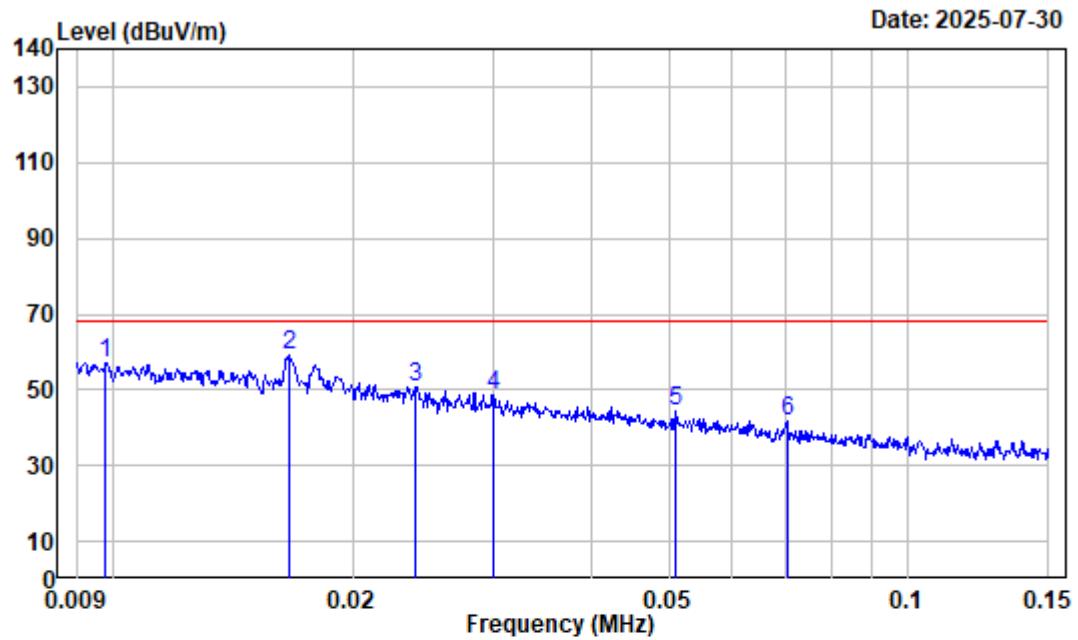
Site : Chamber
Condition : 3m
Job No. : 2504V70512E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : Working
Receiver Setting: RBW:300Hz VBW:1kHz

Freq	Factor	Read		Limit		Over	Remark
		MHz	dB/m	dBuV	dBuV/m	Line	
1	0.011	35.19	22.83	58.02	67.96	-9.94	Peak
2	0.017	32.83	26.03	58.86	67.96	-9.10	Peak
3	0.024	29.57	22.92	52.49	67.96	-15.47	Peak
4	0.041	24.63	21.26	45.89	67.96	-22.07	Peak
5	0.063	21.00	20.63	41.63	67.96	-26.33	Peak
6	0.122	15.42	22.35	37.77	67.96	-30.19	Peak



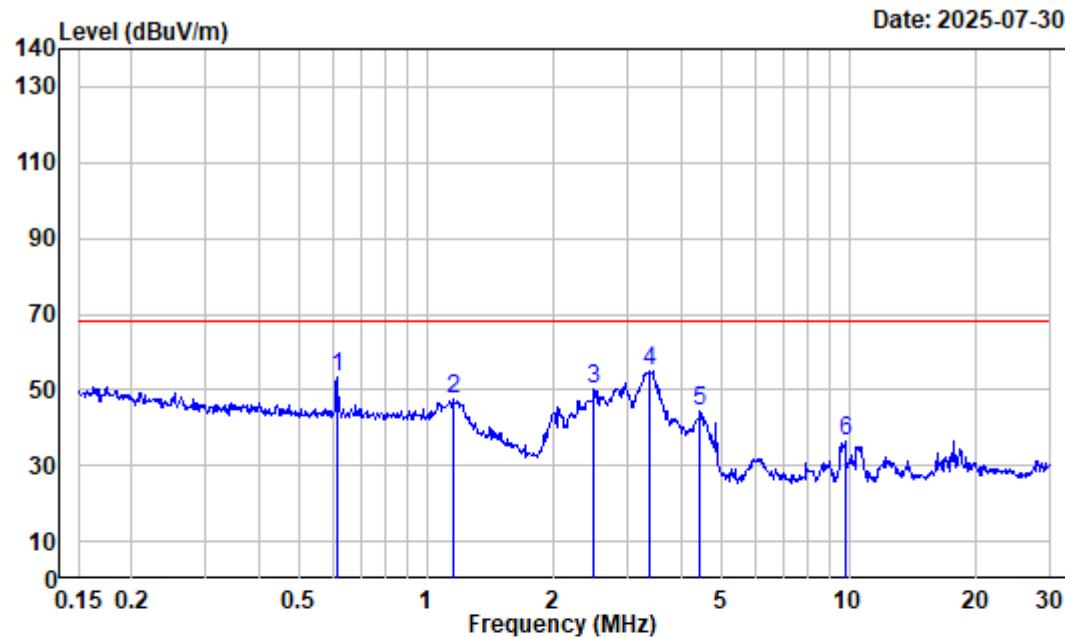
Site : Chamber
Condition : 3m
Job No. : 2504V70512E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : Working
Receiver Setting: RBW:10kHz VBW:30kHz

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.616	1.92	52.77	54.69	67.96 -13.27 Peak
2	1.141	-2.33	51.52	49.19	67.96 -18.77 Peak
3	2.931	-5.80	62.46	56.66	67.96 -11.30 Peak
4	3.276	-5.96	64.83	58.87	67.96 -9.09 Peak
5	4.454	-6.30	53.12	46.82	67.96 -21.14 Peak
6	12.516	-4.73	42.60	37.87	67.96 -30.09 Peak



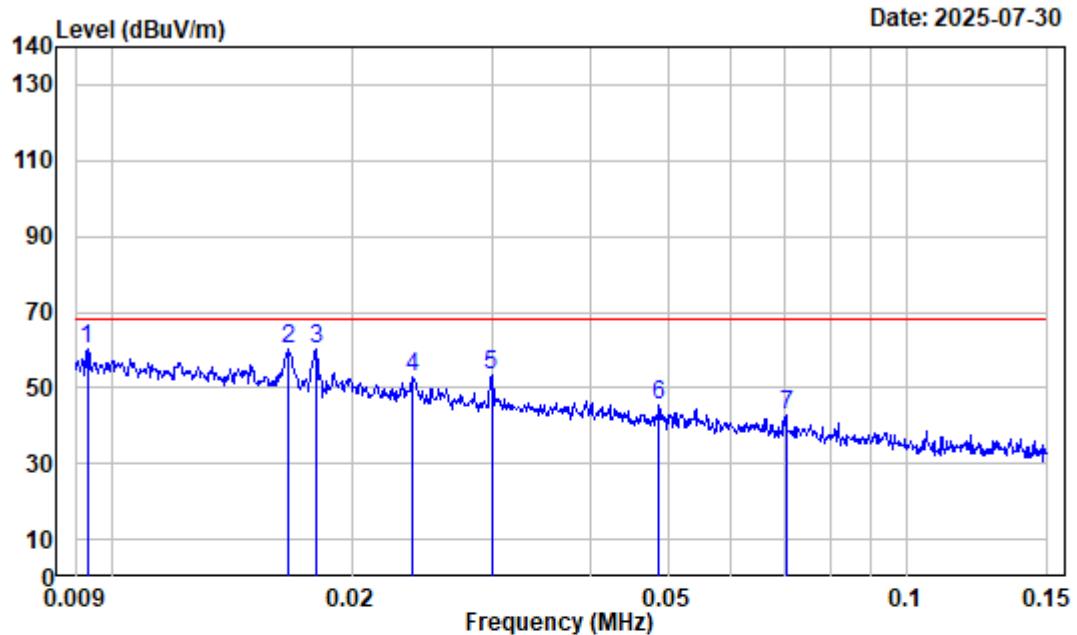
Site : Chamber
Condition : 3m
Job No. : 2504V70512E-RF
Polarization : Perpendicular Tester: Colin Lin
Test Mode : Working
Receiver Setting: RBW:300Hz VBW:1kHz

Freq	Factor	Read		Limit		Over Line	Over Limit	Remark
		Level	Level	Line	dB			
1	0.010	36.00	21.28	57.28	67.96	-10.68	Peak	
2	0.017	32.87	26.35	59.22	67.96	-8.74	Peak	
3	0.024	29.60	21.30	50.90	67.96	-17.06	Peak	
4	0.030	26.93	21.58	48.51	67.96	-19.45	Peak	
5	0.051	22.66	21.78	44.44	67.96	-23.52	Peak	
6	0.070	19.90	22.04	41.94	67.96	-26.02	Peak	



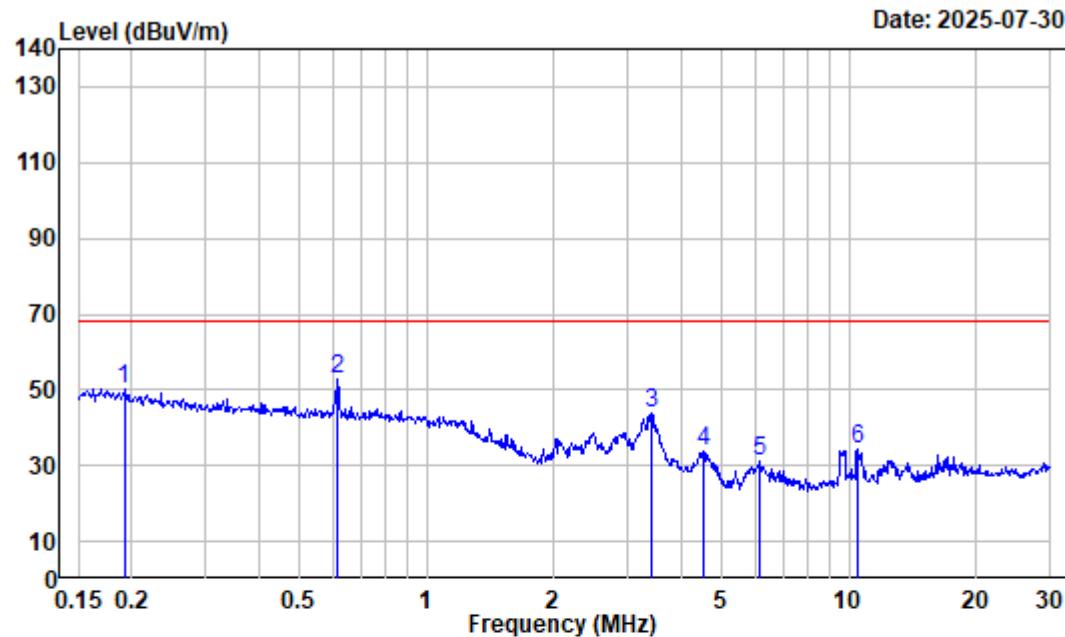
Site : Chamber
Condition : 3m
Job No. : 2504V70512E-RF
Polarization : Perpendicular Tester: Colin Lin
Test Mode : Working
Receiver Setting: RBW:10kHz VBW:30kHz

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.615	1.93	51.48	53.41	67.96 -14.55 Peak
2	1.160	-2.39	49.69	47.30	67.96 -20.66 Peak
3	2.487	-5.60	55.64	50.04	67.96 -17.92 Peak
4	3.381	-6.01	61.03	55.02	67.96 -12.94 Peak
5	4.430	-6.30	50.55	44.25	67.96 -23.71 Peak
6	9.809	-5.38	41.58	36.20	67.96 -31.76 Peak



Site : Chamber
Condition : 3m
Job No. : 2504V70512E-RF
Polarization : Ground-parallel Tester: Colin Lin
Test Mode : Working
Receiver Setting: RBW:300Hz VBW:1kHz

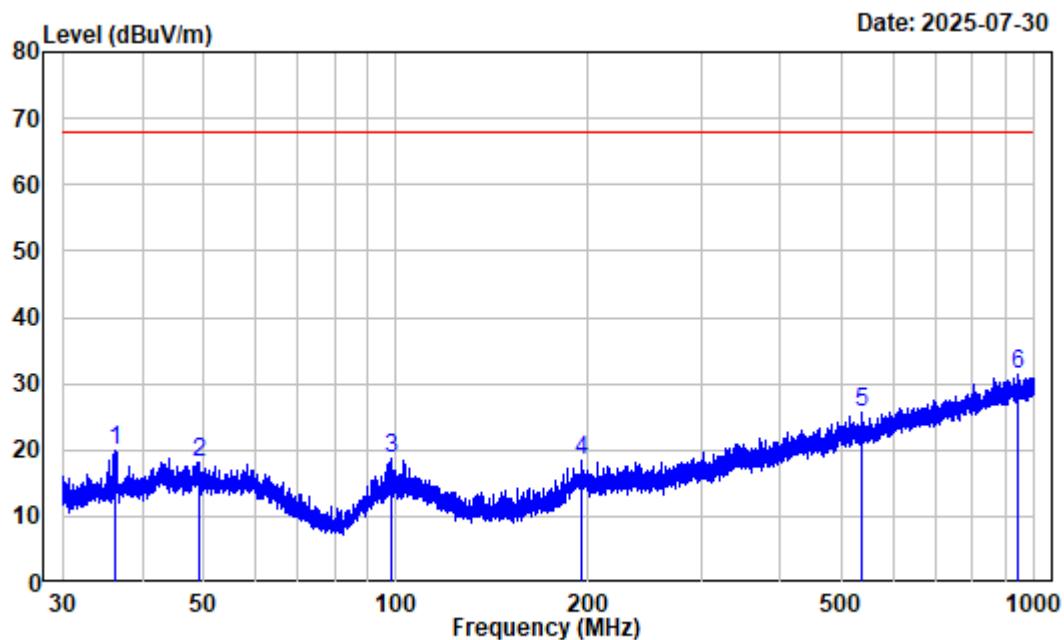
Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.009	36.38	23.71	60.09	67.96 -7.87 Peak
2	0.017	32.87	27.32	60.19	67.96 -7.77 Peak
3	0.018	32.27	27.87	60.14	67.96 -7.82 Peak
4	0.024	29.66	23.40	53.06	67.96 -14.90 Peak
5	0.030	26.95	26.46	53.41	67.96 -14.55 Peak
6	0.049	23.08	22.47	45.55	67.96 -22.41 Peak
7	0.070	19.90	22.85	42.75	67.96 -25.21 Peak



Site : Chamber
Condition : 3m
Job No. : 2504V70512E-RF
Polarization : Ground-parallel Tester: Colin Lin
Test Mode : Working
Receiver Setting: RBW:10kHz VBW:30kHz

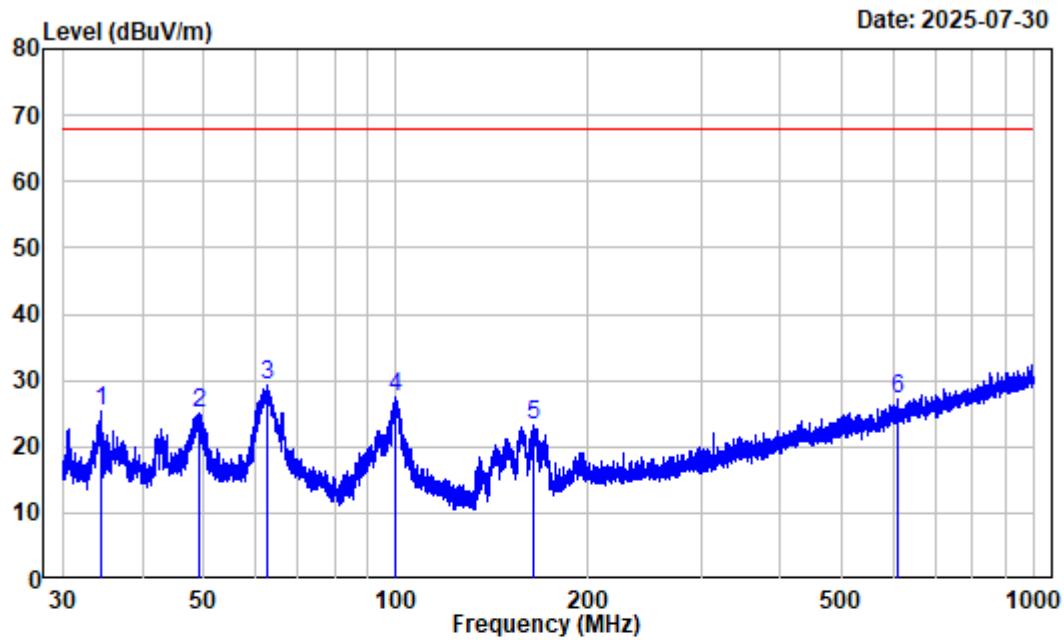
Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.192	12.22	38.05	50.27	67.96 -17.69 Peak
2	0.616	1.92	50.65	52.57	67.96 -15.39 Peak
3	3.417	-6.03	49.66	43.63	67.96 -24.33 Peak
4	4.525	-6.30	39.86	33.56	67.96 -34.40 Peak
5	6.153	-6.19	37.30	31.11	67.96 -36.85 Peak
6	10.452	-5.24	39.77	34.53	67.96 -33.43 Peak

30MHz~1GHz:



Site : Chamber
Condition : 3m HORIZONTAL
Job No. : 2504V70512E-RF Tester: Colin Lin
Test Mode : Working
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.318	-11.40	31.18	19.78	67.96	-48.18	Peak
2	49.100	-9.84	27.98	18.14	67.96	-49.82	Peak
3	98.271	-11.71	30.39	18.68	67.96	-49.28	Peak
4	194.624	-9.86	28.15	18.29	67.96	-49.67	Peak
5	536.177	-3.53	29.21	25.68	67.96	-42.28	Peak
6	939.244	2.11	29.33	31.44	67.96	-36.52	Peak



Site : Chamber
Condition : 3m VERTICAL
Job No. : 2504V70512E-RF Tester: Colin Lin
Test Mode : Working
Receiver Setting: RBW:100kHz VBW:300kHz

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	34.563	-11.66	37.04	25.38	67.96 -42.58 Peak
2	48.993	-9.83	35.01	25.18	67.96 -42.78 Peak
3	62.926	-11.58	41.00	29.42	67.96 -38.54 Peak
4	99.528	-11.42	38.95	27.53	67.96 -40.43 Peak
5	163.683	-13.89	37.07	23.18	67.96 -44.78 Peak
6	612.064	-1.77	29.09	27.32	67.96 -40.64 Peak

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504V70512E-RF EUT External Photos and Attachment No.2 2504V70512E-RF EUT Internal Photos.

EXHIBIT B-TEST SETUP PHOTOGRAPHS

Please refer to the Attachment No.3 2504V70512E-RF Test Photos.

***** END OF REPORT *****