

TEST REPORT

Report No.: BCTC2501786624-1E

Applicant: Shenzhen LOOWOKO Technology Limited

Product Name: Magnetic Wireless Power Bank

Test Model: L-WP-10L5, L-WP-05A5

Tested Date: 2025-01-13 to 2025-02-18

Issued Date: 2025-02-18

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AYA9-05A510L5

Product Name: Magnetic Wireless Power Bank

Trademark: Loowoko

Model/Type Reference: L-WP-10L5
L-WP-05A5

Prepared For: Shenzhen LOOWOKO Technology Limited

Address: 4F,E building,Jin Bao Bao Industry Dist., No2 North Part,Shang Xue Industry City, Long Gang, Shenzhen, China

Manufacturer: Shenzhen LOOWOKO Technology Limited

Address: 4F,E building,Jin Bao Bao Industry Dist., No2 North Part,Shang Xue Industry City, Long Gang, Shenzhen, China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2025-01-13

Sample Tested Date: 2025-01-13 to 2025-02-18

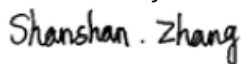
Issue Date: 2025-02-18

Report No.: BCTC2501786624-1E

Test Standards: FCC Part15.209
ANSI C63.10-2013

Test Results: PASS

Tested by:



Shanshan. Zhang / Project Handler

Approved by:



Zero Zhou/Reviewer

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Table Of Content

Test Report Declaration	Page
1. Version	4
2. Test Summary	5
3. Measurement Uncertainty	6
4. Product Information And Test Setup	7
4.1 Product Information	7
4.2 Support Equipment	7
4.3 Test Setup Configuration	8
4.4 Test Mode	9
5. Test Facility And Test Instrument Used	10
5.1 Test Facility	10
5.2 Test Instrument Used	10
6. Conducted Emissions	12
6.1 Block Diagram Of Test Setup	12
6.2 Limit	12
6.3 Test procedure	12
6.4 EUT operating Conditions	12
6.5 Test Result	13
7. Radiated Emissions	17
7.1 Block Diagram Of Test Setup	17
7.2 Limit	18
7.3 Test procedure	18
7.4 Test Result	19
8. Bandwidth Test	31
8.1 Test Procedure	31
8.2 Test Setup	31
8.3 Test Result	32
9. Antenna Requirements	34
9.1 Limit	34
9.2 Test Result	34
10. EUT Photographs	35
11. EUT Test Setup Photographs	36

(Note: N/A Means Not Applicable)

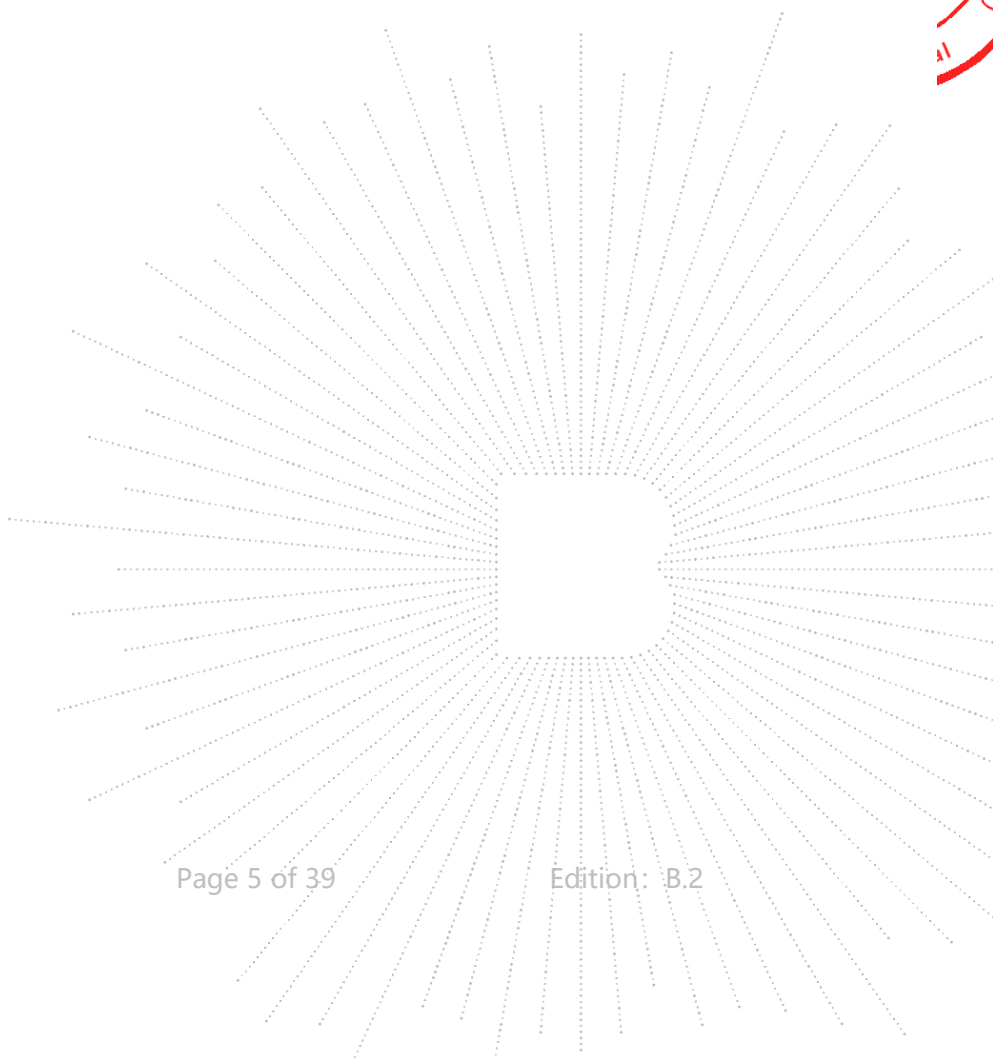
1. Version

Report No.	Issue Date	Description	Approved
BCTC2501786624-1E	2025-02-18	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	Radiated Emission	15.209	PASS
3	20dB Bandwidth	15.215	PASS
4	Antenna Requirement	15.203	PASS



3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	Conducted Emission (150kHz-30MHz)	U=3.2dB
3	humidity uncertainty	U=5.3%
4	Temperature uncertainty	U=0.59°C

CO., LTD.

4. Product Information And Test Setup

4.1 Product Information

Model/Type Reference:	L-WP-10L5 L-WP-05A5
Model Differences:	All the model are the same circuit and RF module, except model names, battery and appearance color.
Hardware Version:	N/A
Software Version:	N/A
Modulation:	ASK
Operation Frequency:	115kHz-205kHz
Antenna installation:	loop coil antenna
Ratings:	Type C Input: DC 5V/3A, DC 9V/2.2A, DC 12V/1.67A Type C Output: DC 5V/3A, DC 9V/2.2A, DC 12V/1.67A Wireless output: 15W Max Battery: DC 3.85V

4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Magnetic Wireless Power Bank	Loowoko	L-WP-10L5 L-WP-05A5	N/A	EUT
E-2	Adapter	UGREEN	CD289	N/A	Auxiliary
E-3	Dummy Load	---	---	N/A	Auxiliary
E-4	Load	---	---	N/A	Auxiliary

Notes:

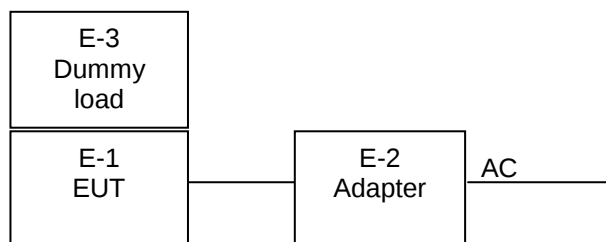
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

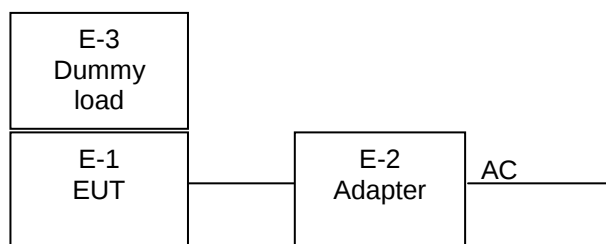
Conducted Emission:

Test Mode 1

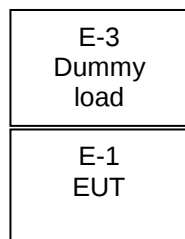


Radiated Spurious Emission:

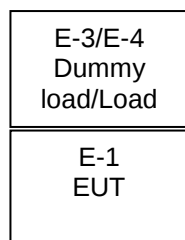
Test Mode 1



Test Mode 2, 3, 4



Test Mode 5



4.4 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

AC Mode	Mode 1	Charging+Full Load(115-205kHz, 5W)
DC Mode	Mode 2	Full Load(115-205kHz, 15W)
	Mode 3	Half Load(115-205kHz, 7.5W)
	Mode 4	5W output
	Mode 5	5V/2A output+5W

Note: All test mode were tested and passed, only shows the worst case mode which were recorded in this report.

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

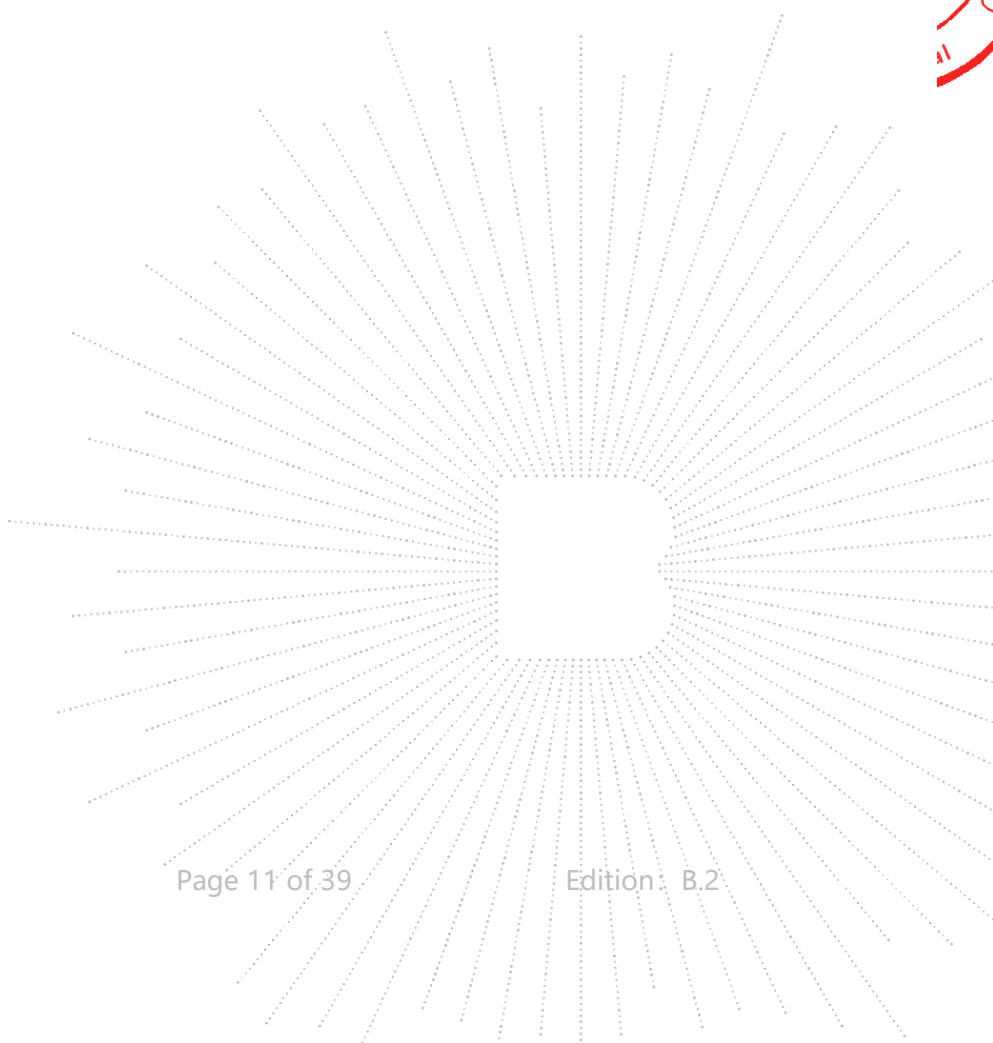
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 16, 2024	May 15, 2025

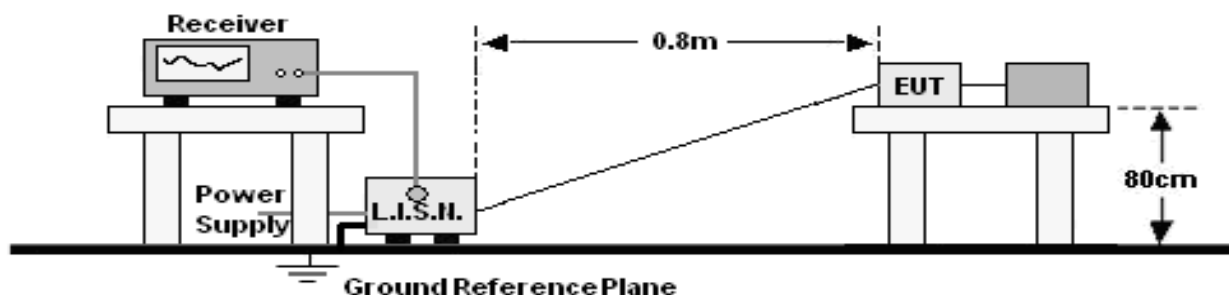
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G1 8G-45dB	SK2021040901	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 16, 2024	May 15, 2025
Horn Antenn(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:
1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

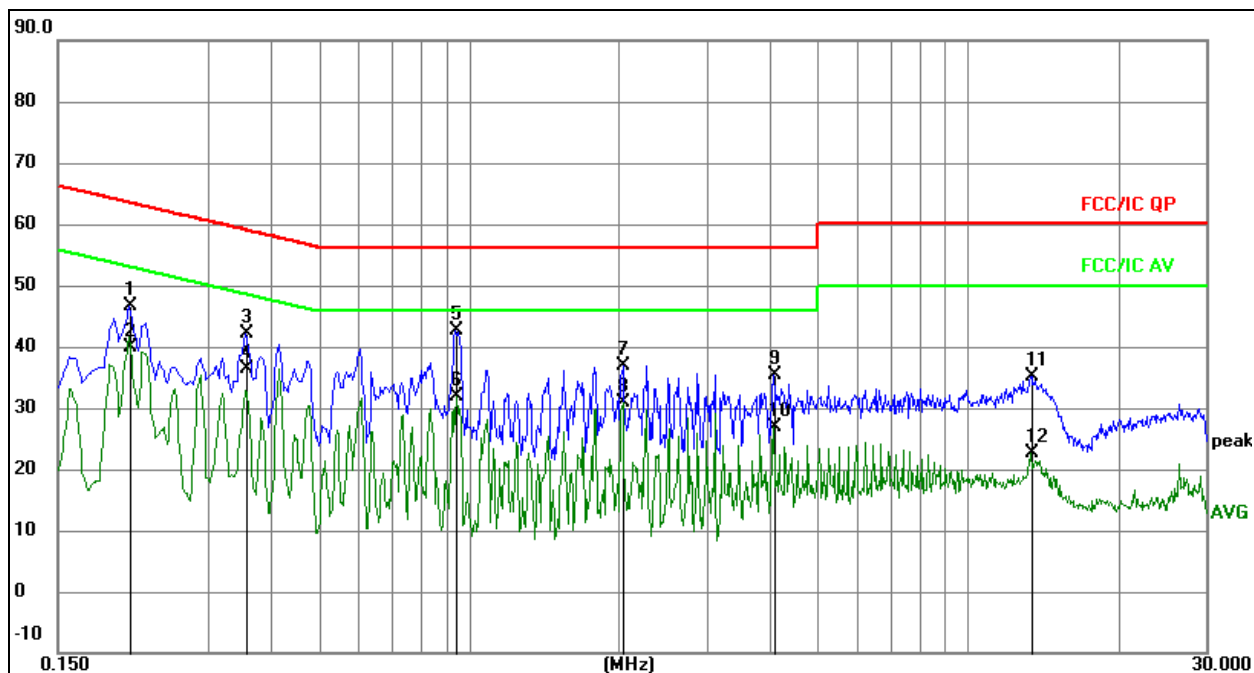
6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

6.5 Test Result

L-WP-10L5

Temperature:	23.8 °C	Relative Humidity:	46%RH
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz

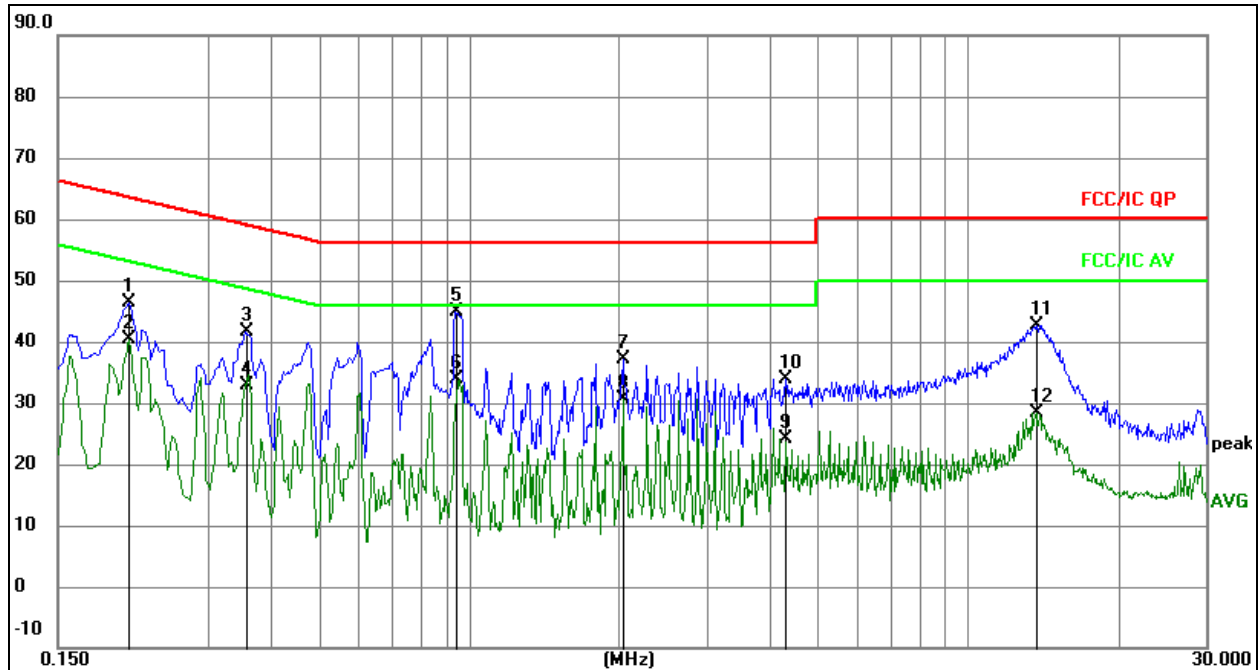


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz		dB	dBuV	dBuV	dB	
1		0.2085	26.52	20.07	46.59	63.26	-16.67	QP
2		0.2085	19.80	20.07	39.87	53.26	-13.39	AVG
3		0.3570	22.05	20.08	42.13	58.80	-16.67	QP
4	*	0.3570	16.23	20.08	36.31	48.80	-12.49	AVG
5		0.9420	22.51	20.09	42.60	56.00	-13.40	QP
6		0.9420	11.79	20.09	31.88	46.00	-14.12	AVG
7		2.0355	16.89	20.10	36.99	56.00	-19.01	QP
8		2.0355	10.89	20.10	30.99	46.00	-15.01	AVG
9		4.0739	15.34	20.14	35.48	56.00	-20.52	QP
10		4.0739	6.65	20.14	26.79	46.00	-19.21	AVG
11		13.3935	14.86	20.26	35.12	60.00	-24.88	QP
12		13.3935	2.44	20.26	22.70	50.00	-27.30	AVG

Temperature:	23.8 °C	Relative Humidity:	46%RH
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz

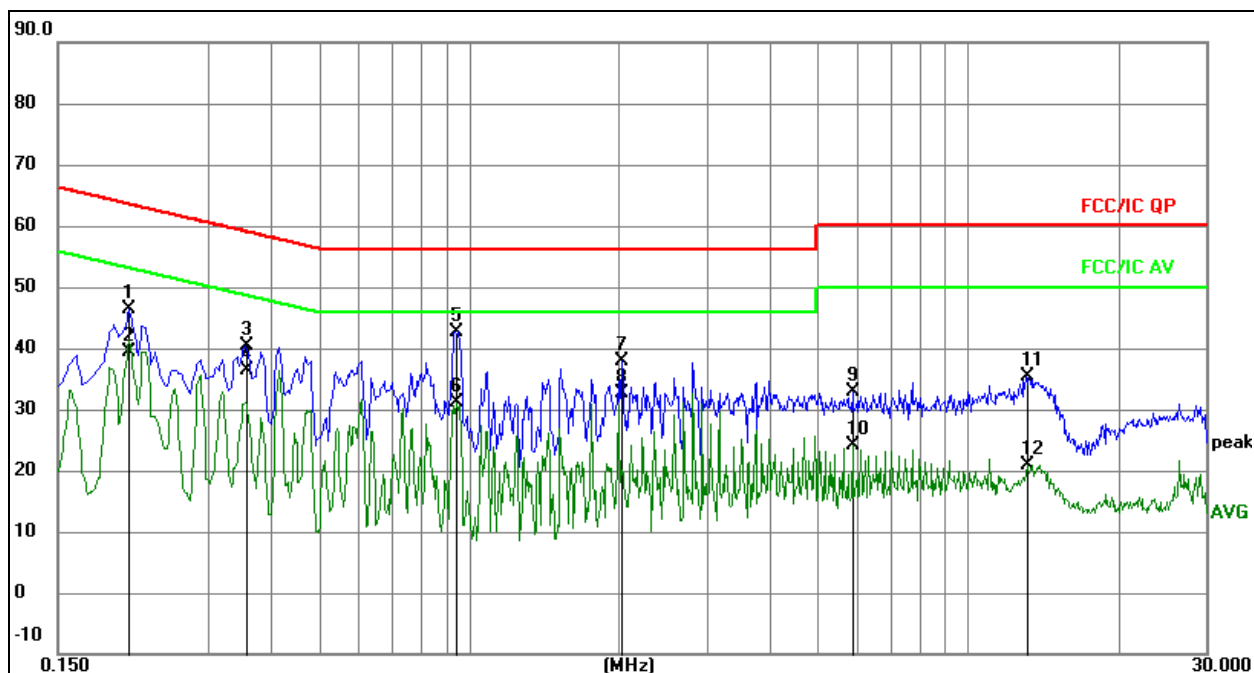

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2083	26.36	20.07	46.43	63.27	-16.84	QP
2		0.2083	20.23	20.07	40.30	53.27	-12.97	AVG
3		0.3558	21.59	20.08	41.67	58.83	-17.16	QP
4		0.3558	12.83	20.08	32.91	48.83	-15.92	AVG
5	*	0.9381	24.73	20.09	44.82	56.00	-11.18	QP
6		0.9381	13.74	20.09	33.83	46.00	-12.17	AVG
7		2.0333	16.98	20.10	37.08	56.00	-18.92	QP
8		2.0333	10.60	20.10	30.70	46.00	-15.30	AVG
9		4.3146	3.89	20.14	24.03	46.00	-21.97	AVG
10		4.3146	13.66	20.14	33.80	56.00	-22.20	QP
11		13.6952	22.47	20.27	42.74	60.00	-17.26	QP
12		13.6952	8.16	20.27	28.43	50.00	-21.57	AVG

L-WP-05A5

Temperature:	23.8 °C	Relative Humidity:	46%RH
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz

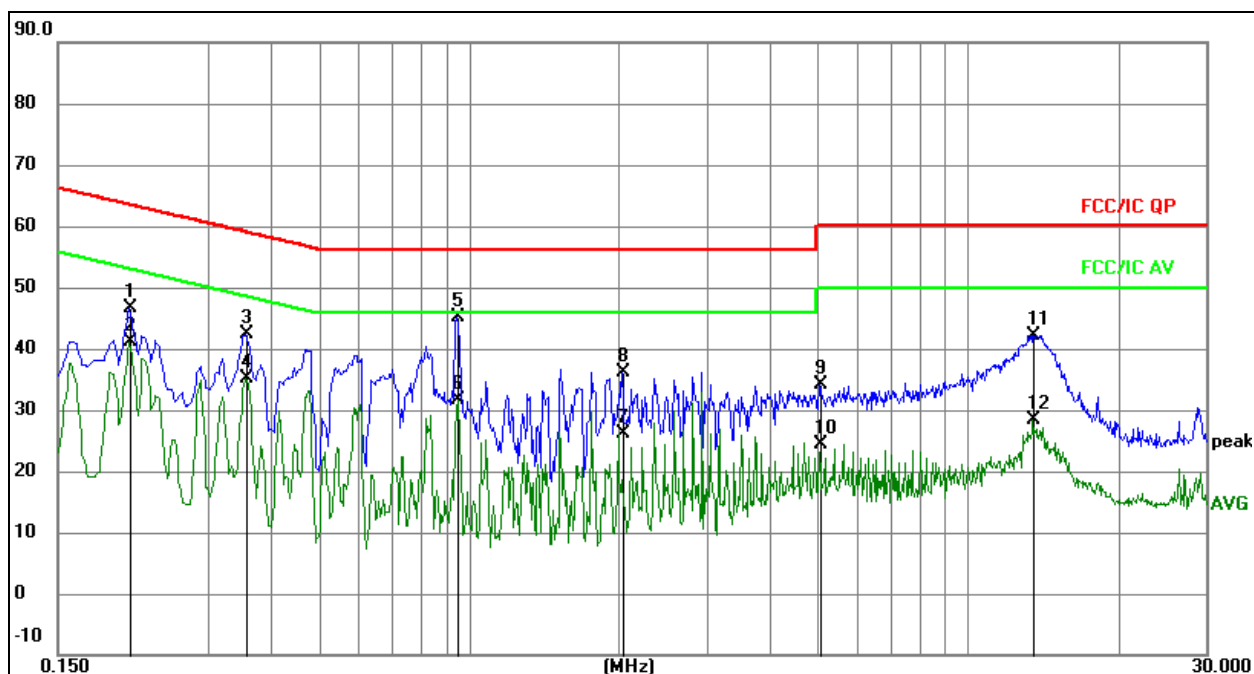


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2083	26.20	20.07	46.27	63.27	-17.00	QP
2		0.2083	19.37	20.07	39.44	53.27	-13.83	AVG
3		0.3558	20.23	20.08	40.31	58.83	-18.52	QP
4	*	0.3558	16.36	20.08	36.44	48.83	-12.39	AVG
5		0.9381	22.59	20.09	42.68	56.00	-13.32	QP
6		0.9381	11.04	20.09	31.13	46.00	-14.87	AVG
7		2.0225	17.74	20.10	37.84	56.00	-18.16	QP
8		2.0225	12.51	20.10	32.61	46.00	-13.39	AVG
9		5.8668	12.69	20.15	32.84	60.00	-27.16	QP
10		5.8668	3.97	20.15	24.12	50.00	-25.88	AVG
11		13.0575	15.06	20.26	35.32	60.00	-24.68	QP
12		13.0575	0.67	20.26	20.93	50.00	-29.07	AVG

Temperature:	23.8 °C	Relative Humidity:	46%RH
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz


Remark:

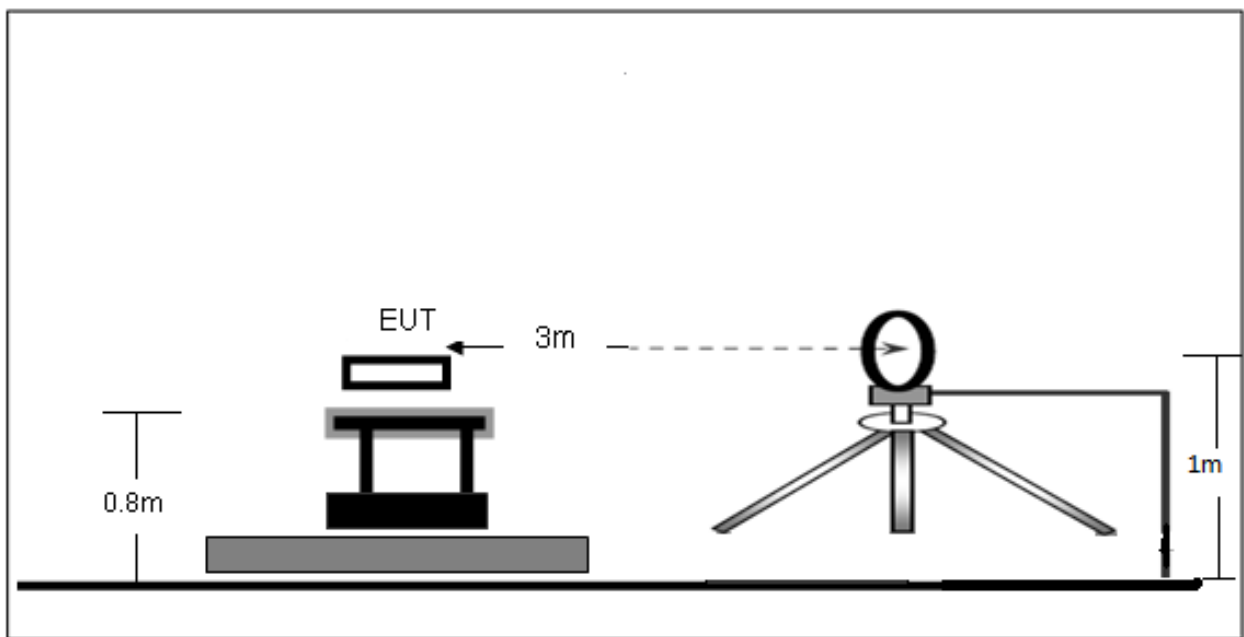
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2085	26.57	20.07	46.64	63.26	-16.62	QP
2		0.2085	20.96	20.07	41.03	53.26	-12.23	AVG
3		0.3570	22.25	20.08	42.33	58.80	-16.47	QP
4		0.3570	14.98	20.08	35.06	48.80	-13.74	AVG
5	*	0.9465	25.11	20.09	45.20	56.00	-10.80	QP
6		0.9465	11.57	20.09	31.66	46.00	-14.34	AVG
7		2.0264	5.95	20.10	26.05	46.00	-19.95	AVG
8		2.0264	16.11	20.10	36.21	56.00	-19.79	QP
9		5.0550	13.95	20.15	34.10	60.00	-25.90	QP
10		5.0550	4.34	20.15	24.49	50.00	-25.51	AVG
11		13.5420	21.96	20.27	42.23	60.00	-17.77	QP
12		13.5420	8.07	20.27	28.34	50.00	-21.66	AVG

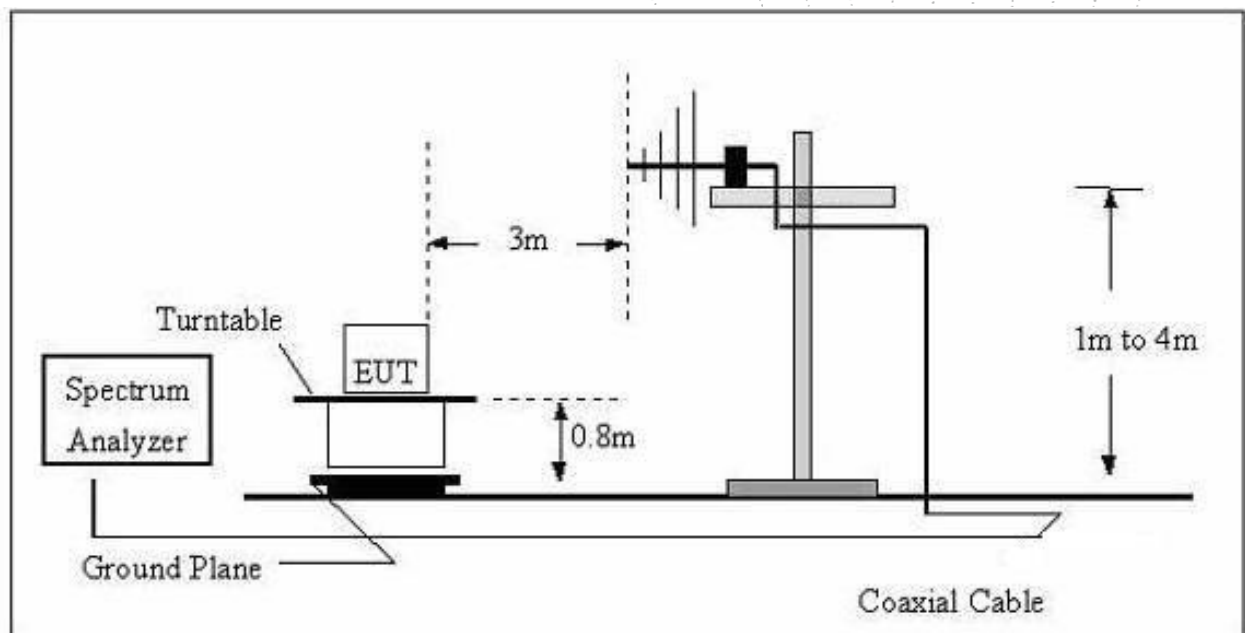
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



7.2 Limit

FCC §15.209; §15.205.

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

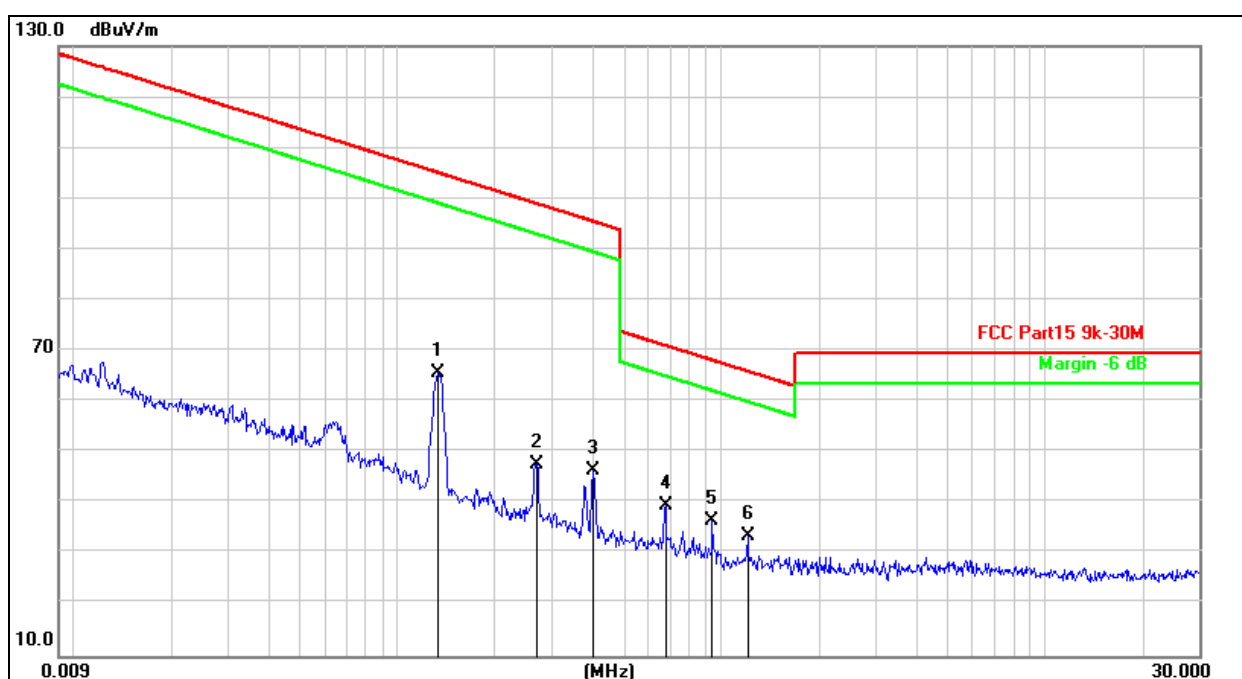
- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 Test Result

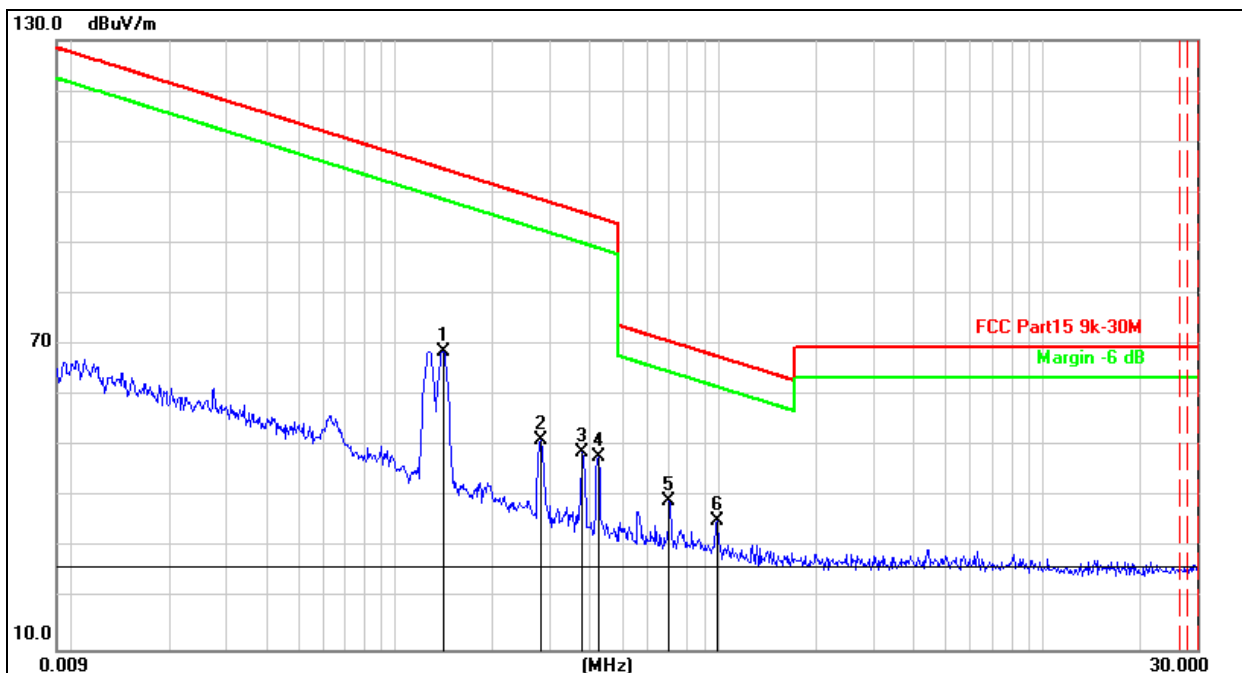
L-WP-10L5
9kHz-30MHz

Temperature:	24.4℃	Relative Humidity:	52%RH
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 1	Polarization:	Coaxial(Worst)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.1340	73.22	-7.55	65.67	105.06	-39.39	Peak
2		0.2693	55.37	-7.73	47.64	99.00	-51.36	Peak
3		0.4007	53.97	-7.64	46.33	95.55	-49.22	Peak
4	*	0.6735	46.82	-7.39	39.43	71.04	-31.61	Peak
5		0.9394	43.82	-7.36	36.46	68.16	-31.70	Peak
6		1.2079	40.90	-7.35	33.55	65.99	-32.44	Peak

Temperature:	24.4°C	Relative Humidity:	52%RH
Pressure:	101 kPa	Test Voltage:	DC 3.85V
Test Mode:	Mode 2	Polarization:	Coaxial(Worst)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		0.1408	76.36	-7.56	68.80	104.63	-35.83	Peak
2		0.2805	59.12	-7.72	51.40	98.65	-47.25	Peak
3		0.3787	56.54	-7.65	48.89	96.04	-47.15	Peak
4		0.4242	55.45	-7.62	47.83	95.05	-47.22	Peak
5	*	0.7015	46.56	-7.36	39.20	70.69	-31.49	Peak
6		0.9863	42.72	-7.36	35.36	67.74	-32.38	Peak

Between 30MHz – 1GHz

Temperature:	24.4℃	Relative Humidity:	52%RH
Pressure:	101KPa	Phase:	Horizontal
Test Mode:	Mode 1(Worst case)	Test Voltage:	AC 120V/60Hz

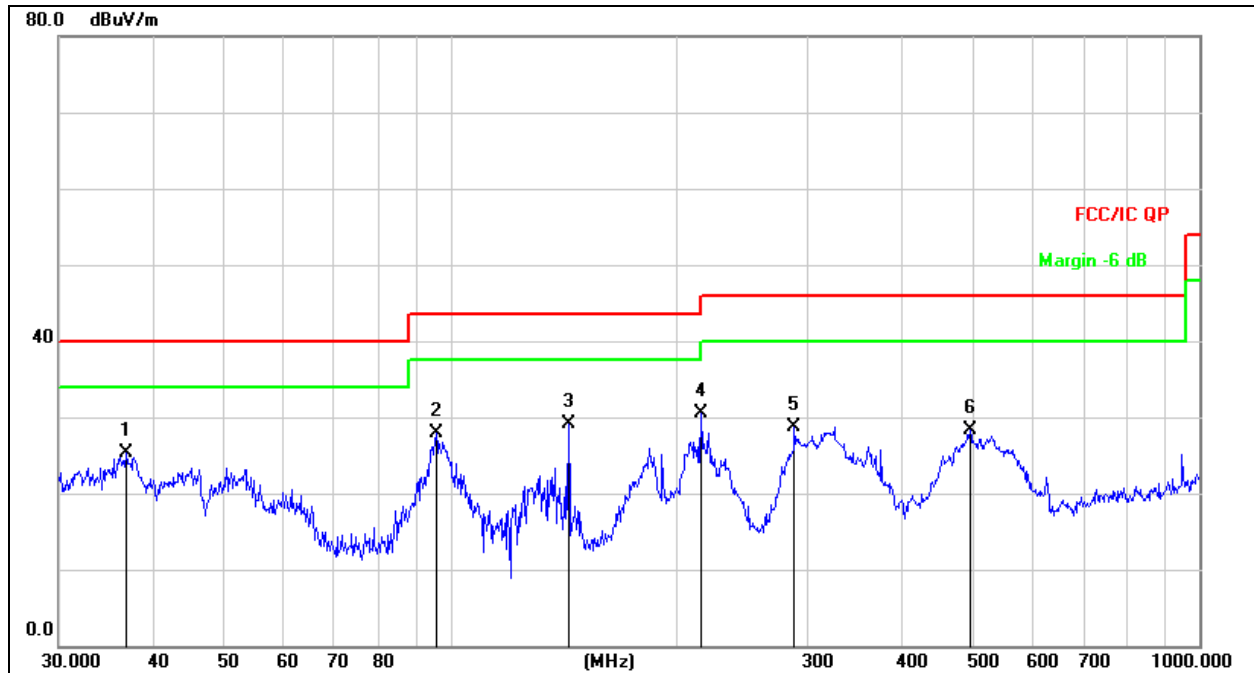


Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		98.1419	33.46	-16.20	17.26	43.50	-26.24	QP
2		143.8295	42.65	-19.00	23.65	43.50	-19.85	QP
3		216.0240	45.38	-15.26	30.12	46.00	-15.88	QP
4	*	317.7011	49.66	-12.62	37.04	46.00	-8.96	QP
5		360.4476	40.48	-11.35	29.13	46.00	-16.87	QP
6		460.7271	32.97	-9.59	23.38	46.00	-22.62	QP

Temperature:	24.4℃	Relative Humidity:	52%RH
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 1(Worst case)	Test Voltage:	AC 120V/60Hz

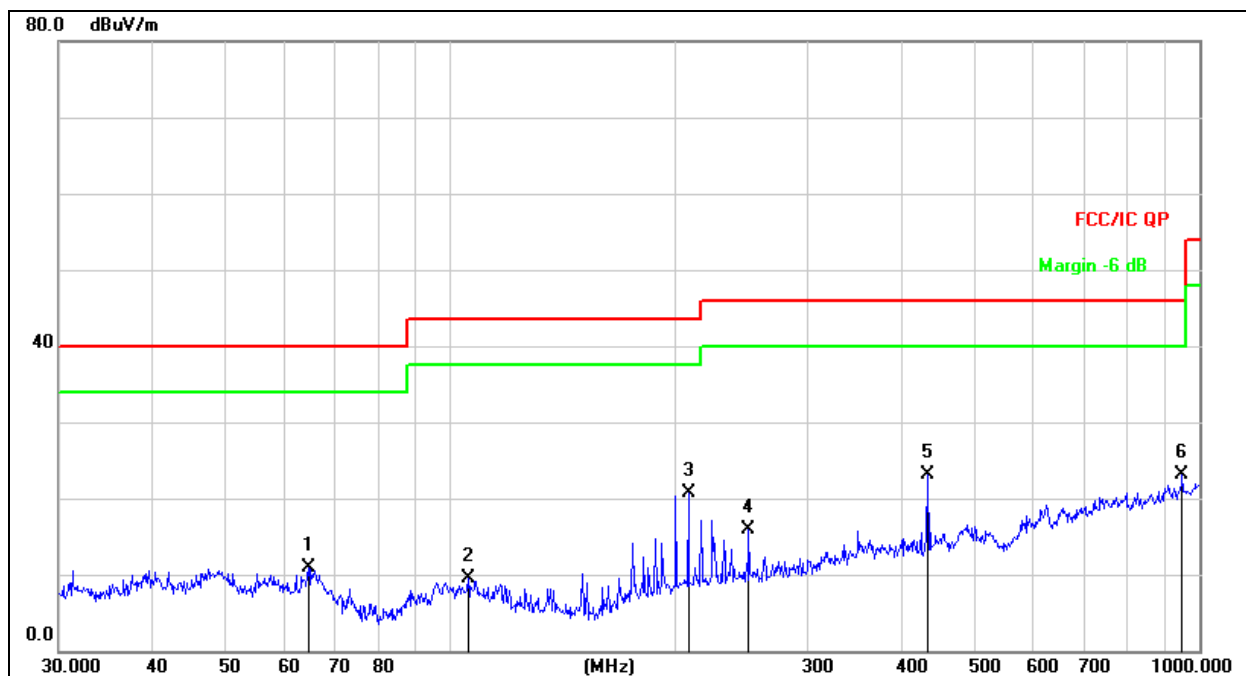


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		36.8953	40.60	-15.32	25.28	40.00	-14.72	QP
2		95.7622	44.40	-16.55	27.85	43.50	-15.65	QP
3	*	143.8295	48.08	-19.00	29.08	43.50	-14.42	QP
4		216.0240	45.74	-15.26	30.48	46.00	-15.52	QP
5		287.9904	42.23	-13.49	28.74	46.00	-17.26	QP
6		494.1984	37.00	-8.75	28.25	46.00	-17.75	QP

Temperature:	24.4°C	Relative Humidity:	52%RH
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4(Worst case)	Test Voltage:	DC 3.85V

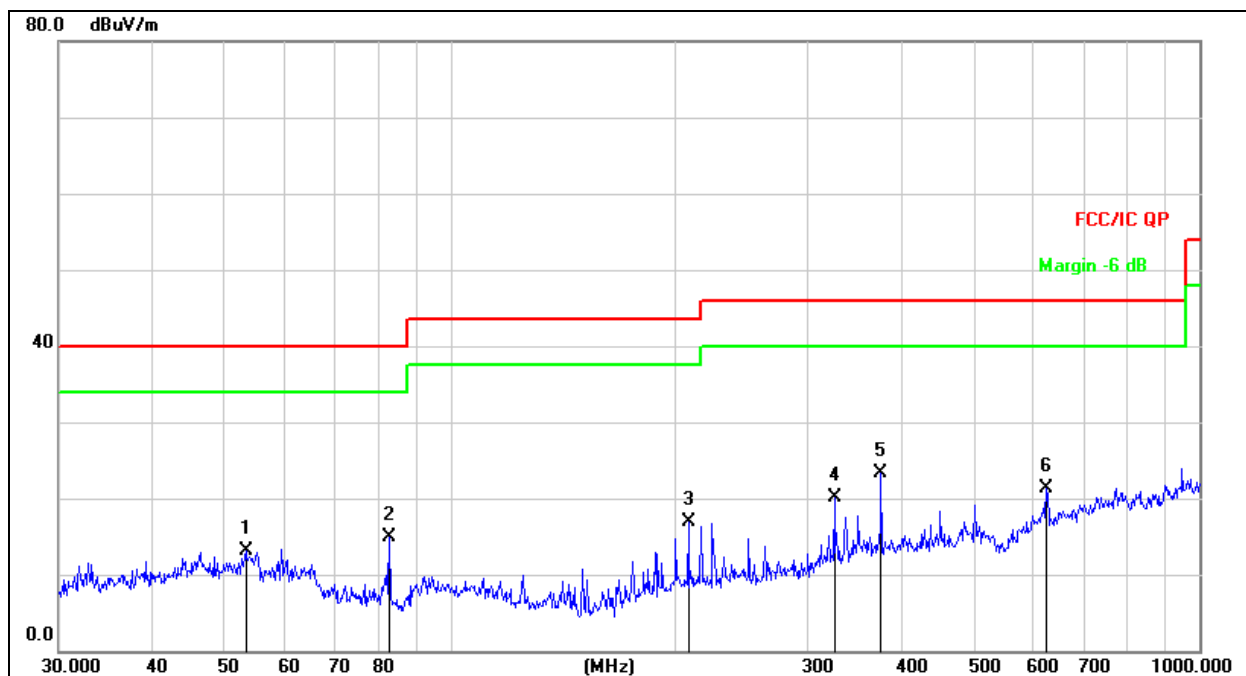


Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		64.6594	27.44	-16.53	10.91	40.00	-29.09	QP
2		105.6415	25.87	-16.32	9.55	43.50	-33.95	QP
3	*	207.8501	36.21	-15.50	20.71	43.50	-22.79	QP
4		250.3012	30.16	-14.28	15.88	46.00	-30.12	QP
5		434.0651	33.33	-10.17	23.16	46.00	-22.84	QP
6		948.7610	26.07	-2.94	23.13	46.00	-22.87	QP

Temperature:	24.4℃	Relative Humidity:	52%RH
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4(Worst case)	Test Voltage:	DC 3.85V



Remark:

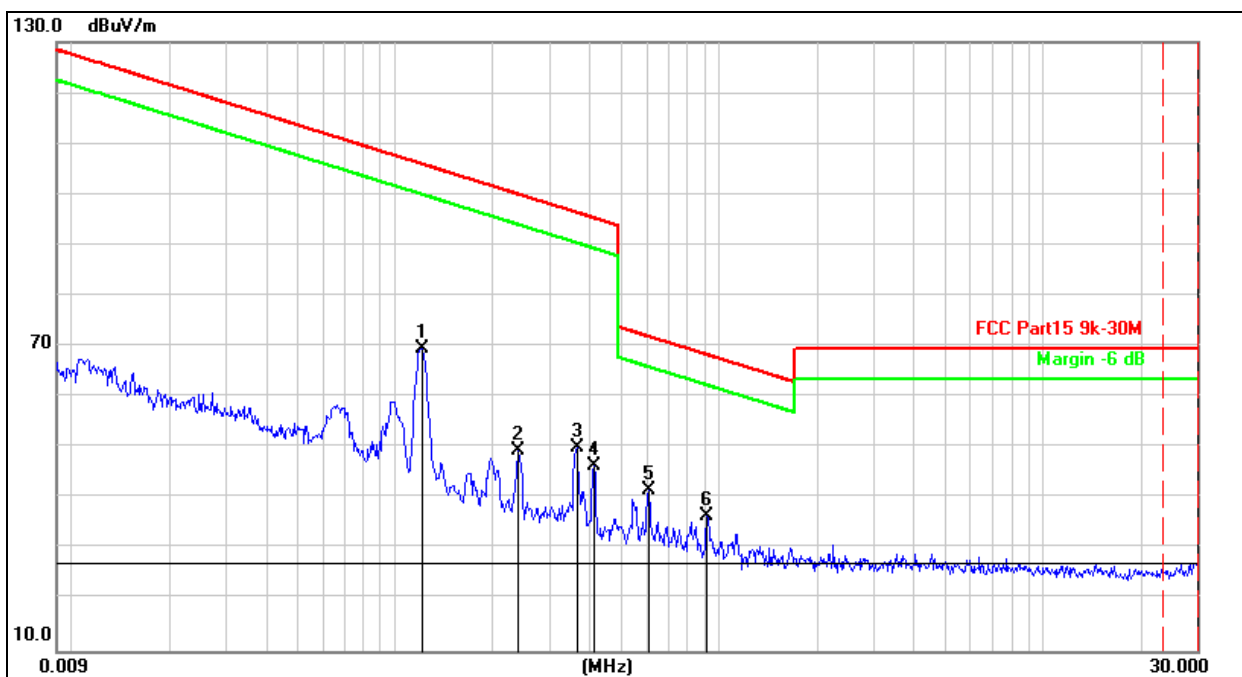
- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Measurement = Reading Level + Correct Factor
- Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		53.3179	27.51	-14.35	13.16	40.00	-26.84	QP
2		82.9385	33.94	-19.06	14.88	40.00	-25.12	QP
3		207.8501	32.41	-15.50	16.91	43.50	-26.59	QP
4		325.5958	32.46	-12.34	20.12	46.00	-25.88	QP
5	*	375.9385	34.55	-11.15	23.40	46.00	-22.60	QP
6		625.0780	27.84	-6.59	21.25	46.00	-24.75	QP

CO.LTD

L-WP-05A5
9kHz-30MHz

Temperature:	24.4℃	Relative Humidity:	52%RH
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 1	Polarization:	Coaxial(Worst)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.1207	77.05	-7.53	69.52	105.97	-36.45	Peak
2		0.2404	57.31	-7.75	49.56	99.99	-50.43	Peak
3		0.3636	57.59	-7.67	49.92	96.39	-46.47	Peak
4		0.4107	54.14	-7.63	46.51	95.33	-48.82	Peak
5	*	0.6062	49.03	-7.46	41.57	71.96	-30.39	Peak
6		0.9168	43.97	-7.36	36.61	68.37	-31.76	Peak

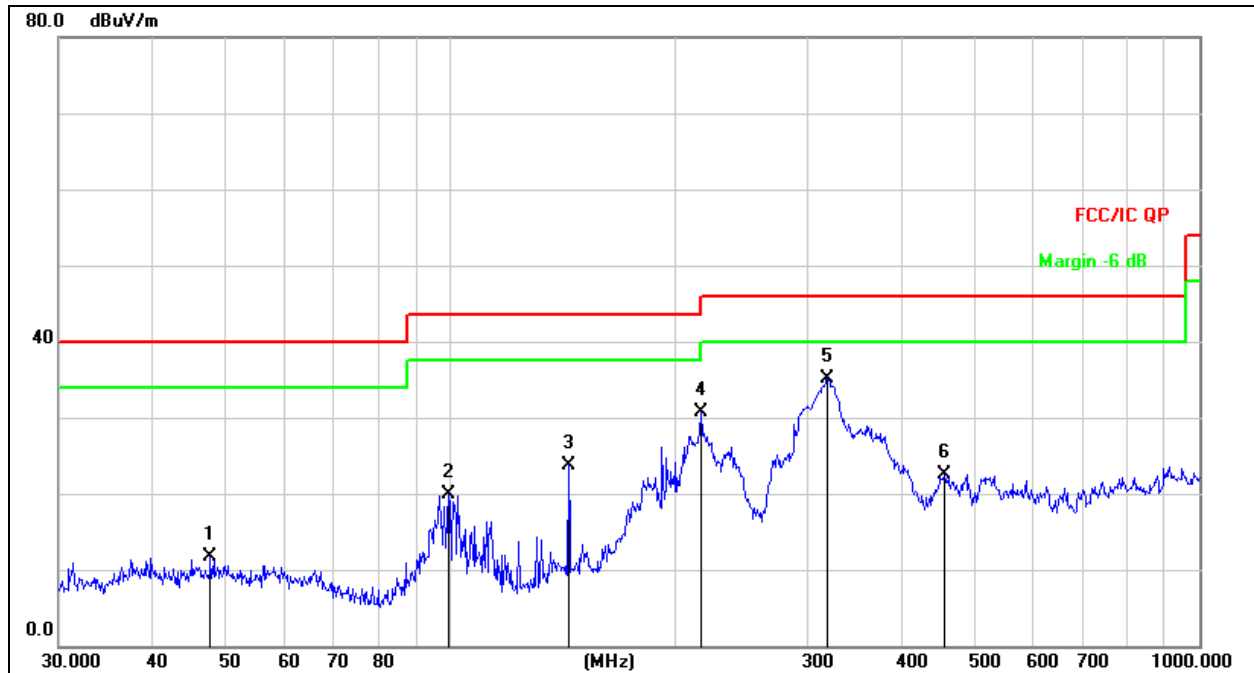
Temperature:	24.4°C	Relative Humidity:	52%RH
Pressure:	101 kPa	Test Voltage:	DC 3.85V
Test Mode:	Mode 2	Polarization:	Coaxial(Worst)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		0.1454	76.12	-7.57	68.55	104.35	-35.80	Peak
2		0.2921	57.06	-7.72	49.34	98.29	-48.95	Peak
3		0.3818	54.92	-7.65	47.27	95.97	-48.70	Peak
4		0.4382	53.22	-7.61	45.61	94.77	-49.16	Peak
5	*	0.7246	47.65	-7.36	40.29	70.41	-30.12	Peak
6		0.5821	43.95	-7.48	36.47	72.31	-35.84	Peak

Between 30MHz – 1GHz

Temperature:	24.4℃	Relative Humidity:	52%RH
Pressure:	101KPa	Phase:	Horizontal
Test Mode:	Mode 1(Worst case)	Test Voltage:	AC 120V/60Hz

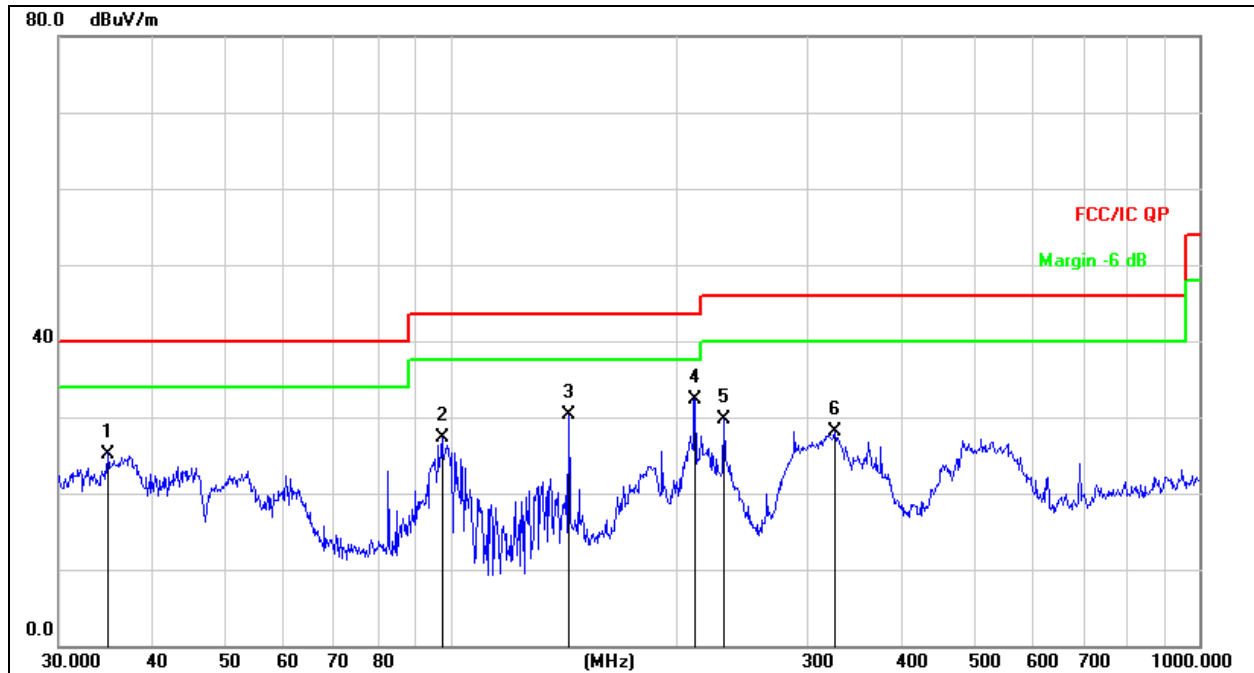


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.8260	25.72	-14.08	11.64	40.00	-28.36	QP
2		99.5281	35.97	-16.00	19.97	43.50	-23.53	QP
3		143.8295	42.66	-19.00	23.66	43.50	-19.84	QP
4		216.0240	45.94	-15.26	30.68	46.00	-15.32	QP
5	*	318.8170	47.71	-12.58	35.13	46.00	-10.87	QP
6		457.5073	32.17	-9.67	22.50	46.00	-23.50	QP

Temperature:	24.4℃	Relative Humidity:	52%RH
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 1(Worst case)	Test Voltage:	AC 120V/60Hz

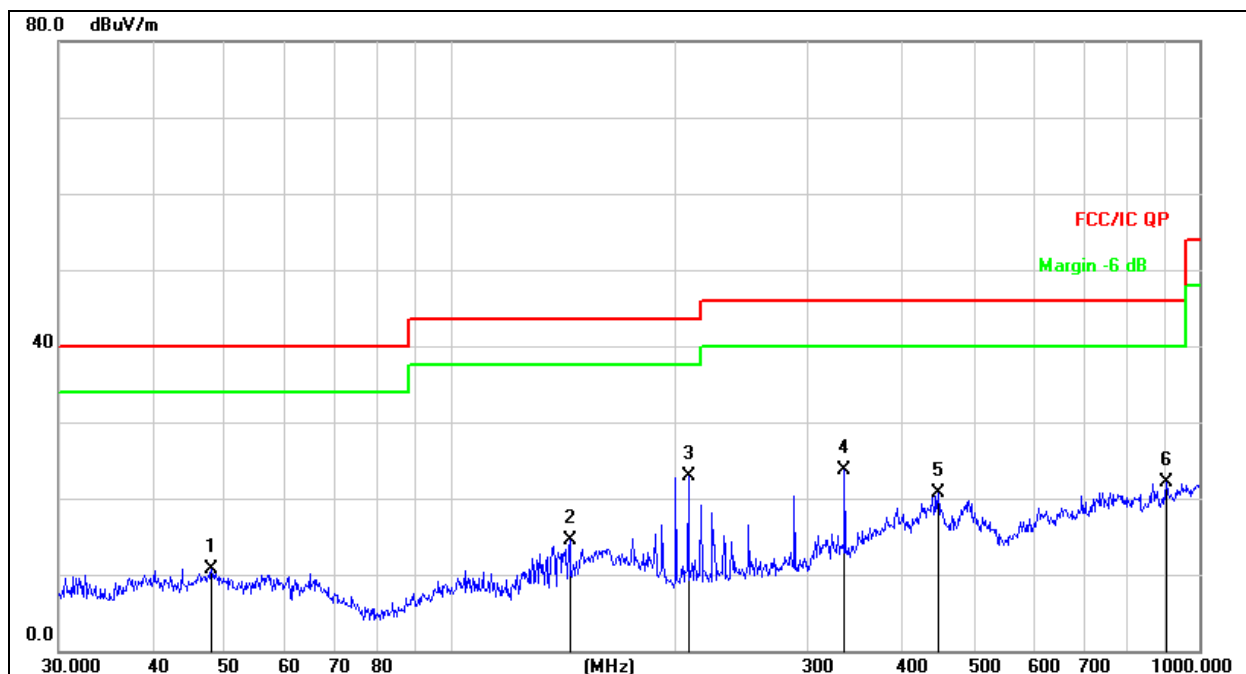


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		34.8823	40.91	-15.71	25.20	40.00	-14.80	QP
2		97.4560	43.61	-16.30	27.31	43.50	-16.19	QP
3		143.8295	49.32	-19.00	30.32	43.50	-13.18	QP
4	*	212.2695	47.75	-15.37	32.38	43.50	-11.12	QP
5		231.7179	44.59	-14.81	29.78	46.00	-16.22	QP
6		325.5958	40.49	-12.34	28.15	46.00	-17.85	QP

Temperature:	24.4℃	Relative Humidity:	52%RH
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 2(Worst case)	Test Voltage:	DC 3.85V

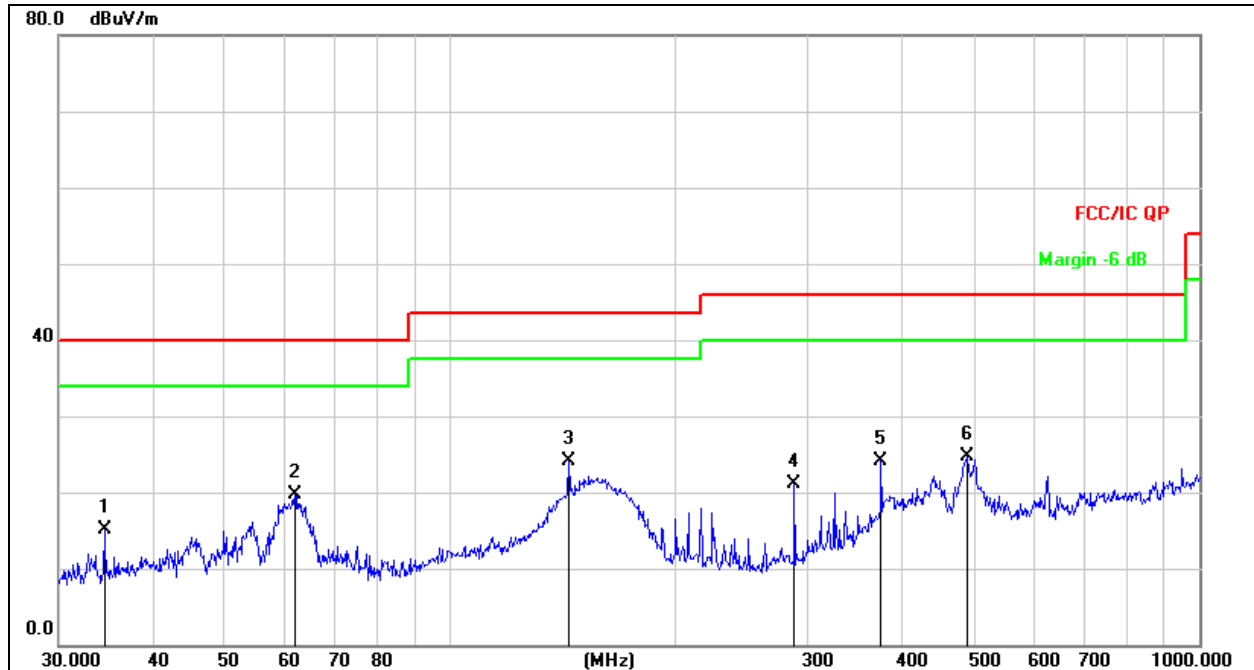


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.9940	24.77	-14.06	10.71	40.00	-29.29	QP
2		144.3348	33.58	-19.03	14.55	43.50	-28.95	QP
3	*	207.8501	38.43	-15.50	22.93	43.50	-20.57	QP
4		336.0352	35.61	-11.97	23.64	46.00	-22.36	QP
5		447.9822	30.64	-9.90	20.74	46.00	-25.26	QP
6		903.3094	25.16	-3.11	22.05	46.00	-23.95	QP

Temperature:	24.4℃	Relative Humidity:	52%RH
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 2(Worst case)	Test Voltage:	DC 3.85V



Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		34.5173	30.86	-15.78	15.08	40.00	-24.92	QP
2		61.9951	35.43	-15.80	19.63	40.00	-20.37	QP
3	*	143.8295	43.09	-19.00	24.09	43.50	-19.41	QP
4		287.9904	34.53	-13.49	21.04	46.00	-24.96	QP
5		375.9385	35.21	-11.15	24.06	46.00	-21.94	QP
6		490.7447	33.58	-8.84	24.74	46.00	-21.26	QP

8. Bandwidth Test

8.1 Test Procedure

1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

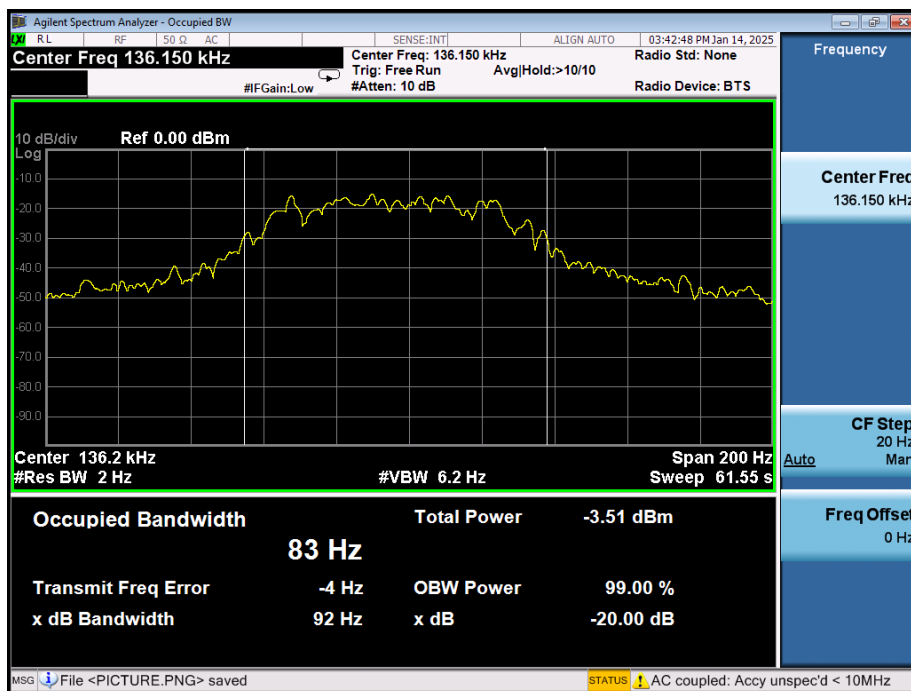
8.2 Test Setup



8.3 Test Result

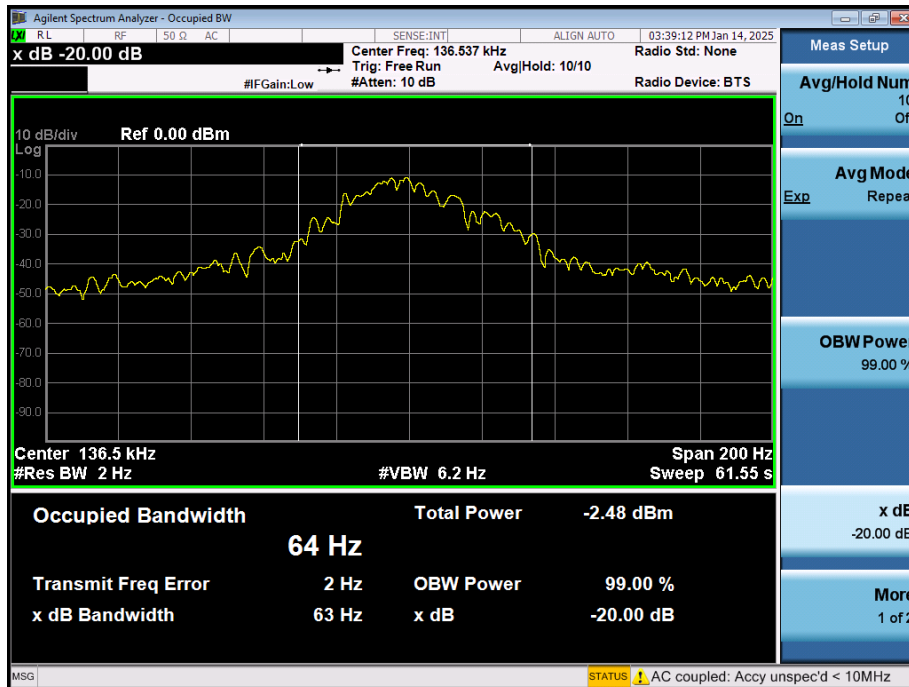
L-WP-10L5

Frequency (kHz)	20dB bandwidth (kHz)	Result
136.2	0.092	Pass




L-WP-05A5

Frequency (kHz)	20dB bandwidth (kHz)	Result
136.5	0.063	Pass



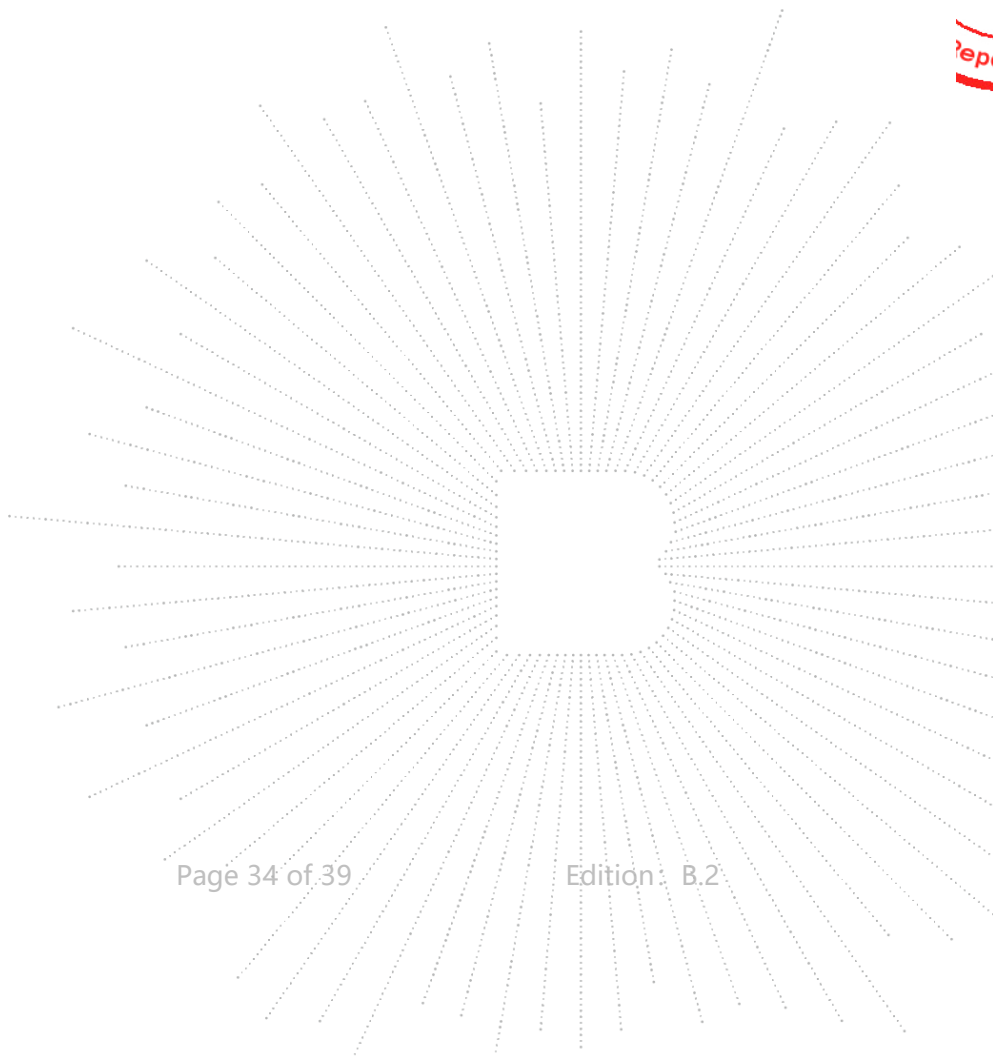
9. Antenna Requirements

9.1 Limit

For intentional device, according to FCC 47 CFR Section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

9.2 Test Result

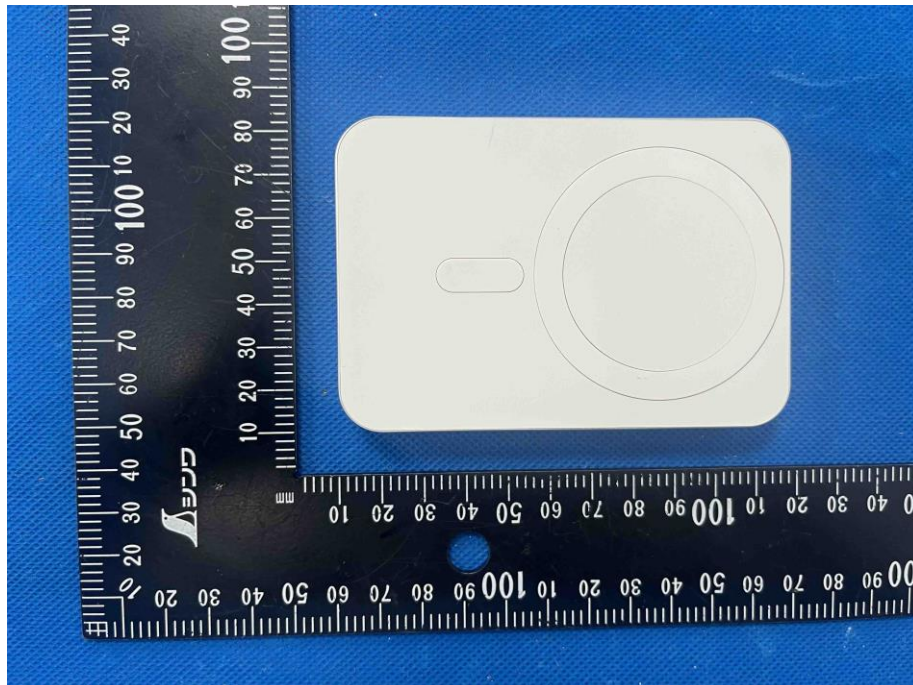
The antenna used for this product is Inductive Loop coil antenna.



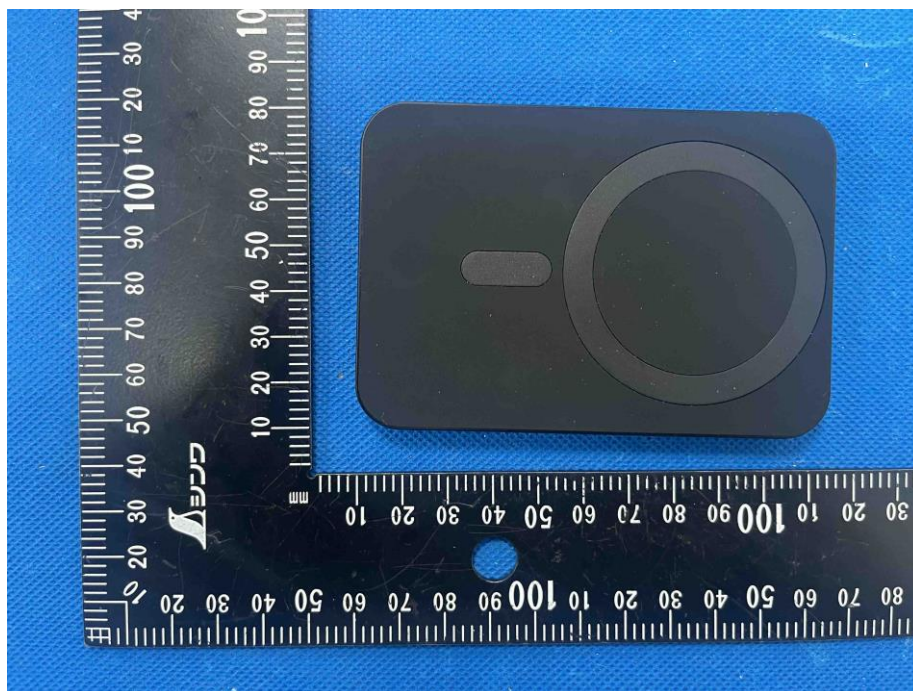
10. EUT Photographs

EUT Photo

L-WP-10L5



L-WP-05A5



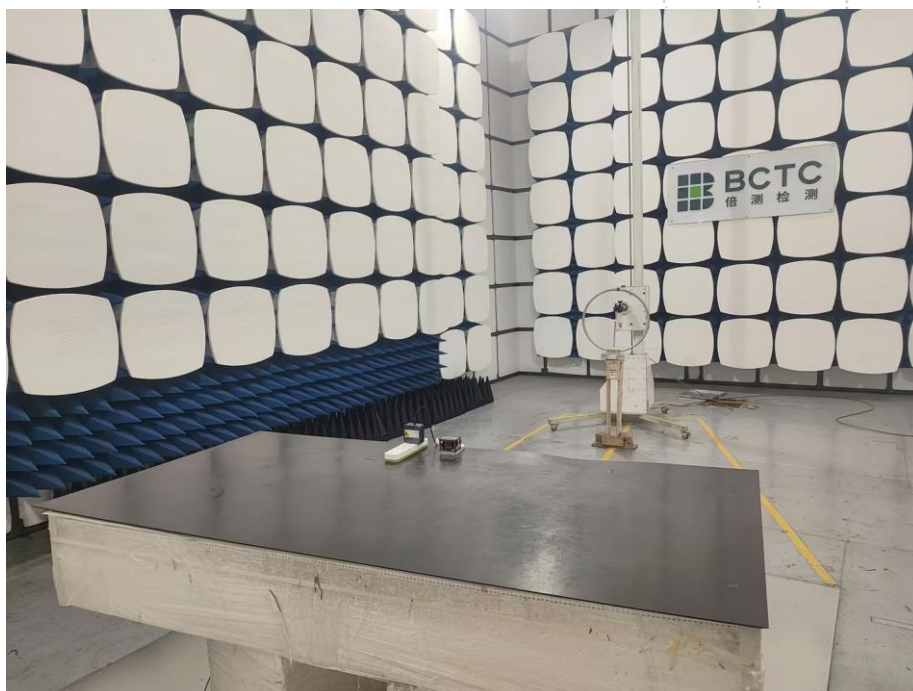
NOTE: Appendix-Photographs Of EUT Constructional Details

11. EUT Test Setup Photographs

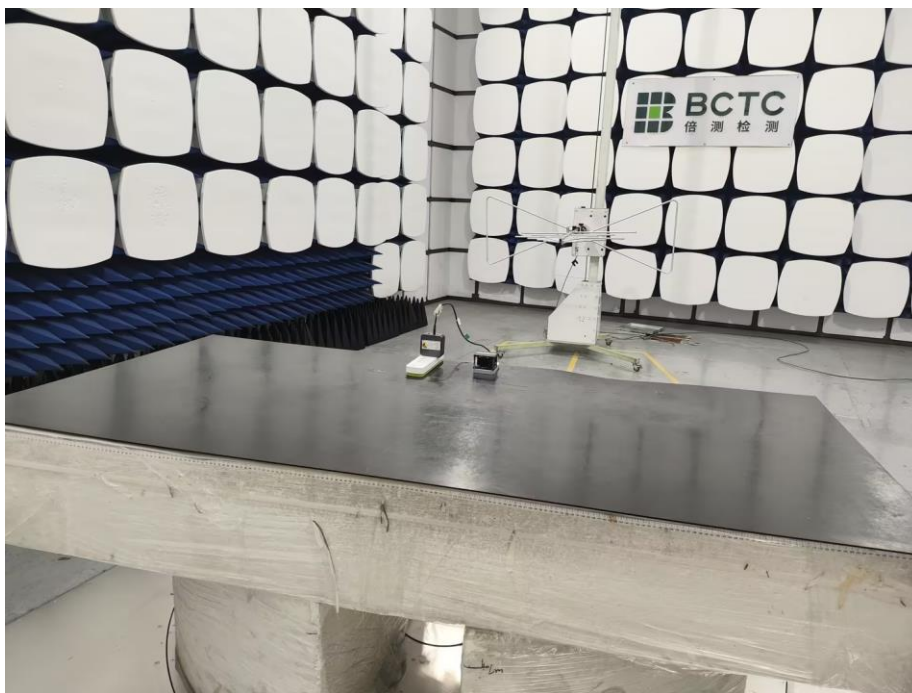
L-WP-10L5
Conducted emissions



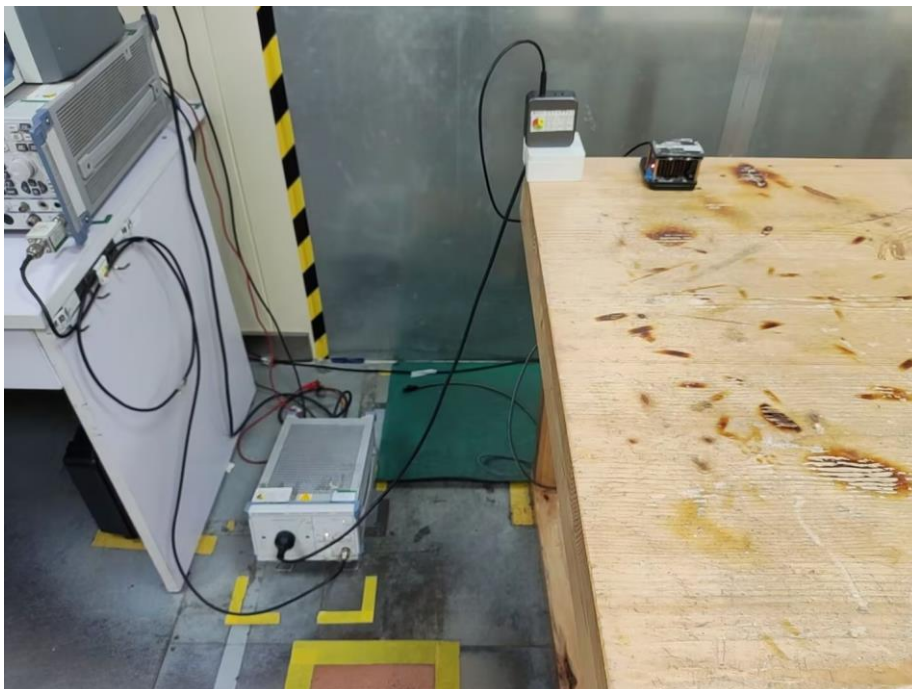
Radiated Measurement Photos
9kHz-30MHz



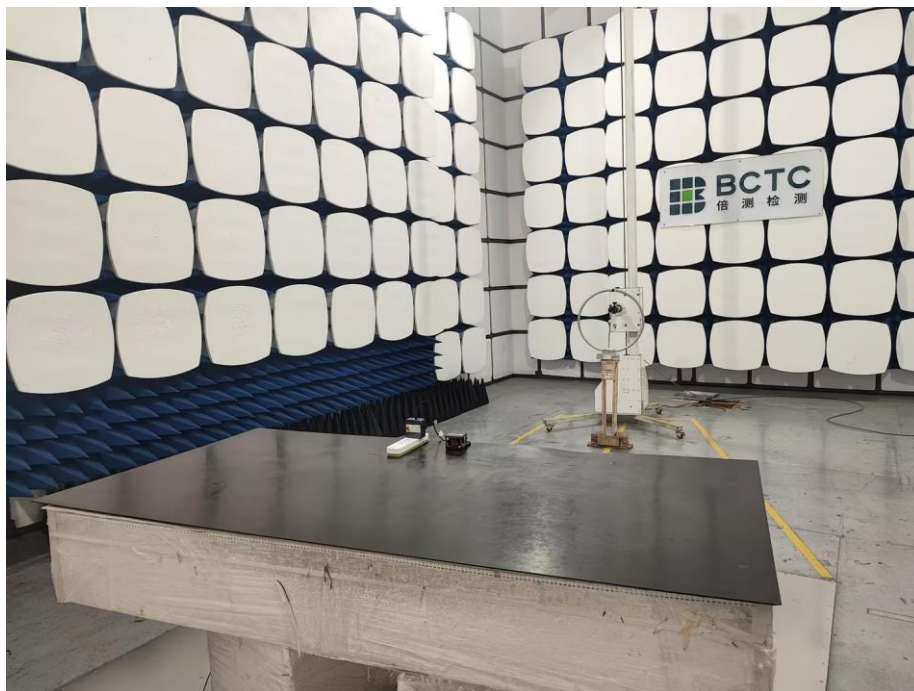
30MHz-1GHz



L-WP-05A5
Conducted emissions



Radiated Measurement Photos
9kHz-30MHz



30MHz-1GHz



STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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FAX: 0755-33229357

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Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

***** END *****