

EMC Test Report

Report No.: JYTSZ-R01-2600289

Applicant: Lumistar (Shanghai) Robotics Technology Co., Ltd.

Address of Applicant: Room 340, Building 1, No. 299 Zhongchen Road, Songjiang District, Shanghai

Equipment Under Test (EUT)

Product Name: TERO Smart Tennis Ball Machine/TERO PRO AI Tennis Ball Machine

Model No.: HYWT002, HYWS001

Trade Mark: LUMISTAR

FCC ID: 2BTUN-HYWS001

Applicable Standards: FCC CFR Title 47 Part 15B

Date of Sample Receipt: 31 Jul., 2026

Date of Test: 01 Aug., to 20 Aug., 2026

Date of report Issued: 21 Aug., 2026

Test Result: PASS

Project by:	<u>Lumal. Ding</u>	Date:	<u>21 Aug., 2026</u>
Reviewed by:	<u>Weta. Chang</u>	Date:	<u>21 Aug., 2026</u>
Approved by:	<u>Jumad. Wei</u>	Date:	<u>21 Aug., 2026</u>
	Manager		

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	21 Aug., 2026	Original

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3 General Information

3.1 Client Information

Applicant:	Lumistar (Shanghai) Robotics Technology Co., Ltd.
Address:	Room 340, Building 1, No. 299 Zhongchen Road, Songjiang District, Shanghai
Manufacturer:	Lumistar (Shanghai) Robotics Technology Co., Ltd.
Address:	Room 340, Building 1, No. 299 Zhongchen Road, Songjiang District, Shanghai
Factory:	TENMA PRECISION (SHENZHEN) CO., LTD.
Address:	101, BUILDING D, NO. 2 NIKENG 3RD ROAD, XINLAN COMMUNITY, GUANLAN STREET, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

3.2 General Description of E.U.T.

Product Name:	TERO Smart Tennis Ball Machine/TERO PRO AI Tennis Ball Machine
Model No.:	HYWT002, HYWS001
Power Supply:	Input: DC 27V, 2.2A Rechargeable Li-ion Battery DC 21.9V, 8000mAh, 175.2Wh
AC Adapter:	Model: K65A270220E2 Input: AC100-240V, 50/60Hz, 1.5A Output: DC 27.0V, 2.2A 59.4W
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	Model(HYWT002) and Model(HYWS001) were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being (Differences in Product Appearance and Accessories).

3.3 Disclaimer

Disclaimer:
For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

3.4 Test Mode

Operating Mode	Detail Description
Working mode	Keep the EUT in Working mode (Worst case)
Charging+Working mode	Keep the EUT in Charging+ Working mode
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

3.5 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	S/N	FCC ID/DoC
N/A	N/A	N/A	N/A	N/A

3.6 Description of Cable Used

Cable Type	Description	Length	From	To
N/A	N/A	N/A	N/A	N/A

3.7 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	3.0 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	2.5 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.7 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	4.5 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	4.5 dB
Radiated Emission (30MHz ~ 1000MHz) (10m SAC)	4.3 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

3.8 Additions to, Deviations, or Exclusions from the Method

No

3.9 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

3.11 Test Instruments List

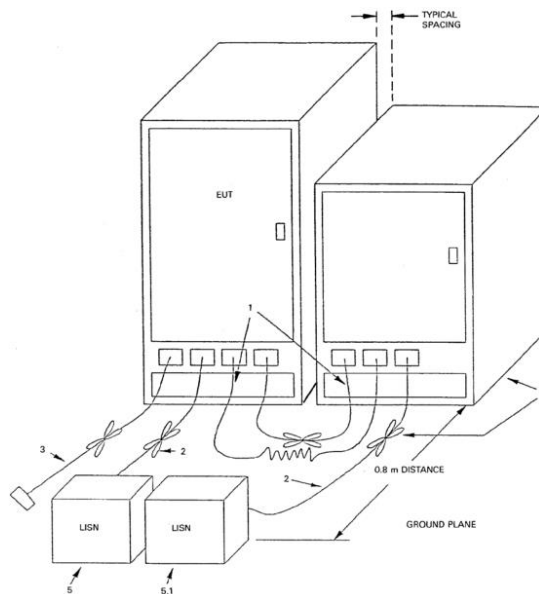
Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	12-09-2025	12-08-2030
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	08-09-2025	08-08-2026
				08-03-2026	08-02-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-07-2025	12-06-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-04-2025	12-03-2026
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-04-2025	12-03-2026
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-05-2025	12-04-2026
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-04-2025	12-03-2026
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-04-2025	12-03-2026
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-14-2026	01-13-2027
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-14-2026	01-13-2027
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-14-2026	01-13-2027
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	04-29-2026	04-28-2027
LISN	Rohde & Schwarz	ENV432	WXJ005-2	08-08-2025	08-07-2026
				08-03-2026	08-02-2027
LISN	Schwarzbeck	NNLK 8121	XFJ004-02	03-30-2026	03-29-2027
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	12-08-2025	12-07-2026
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-04-2025	12-03-2026
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-14-2026	01-13-2027
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

4 Measurement Setup and Procedure

4.1 Test Setup

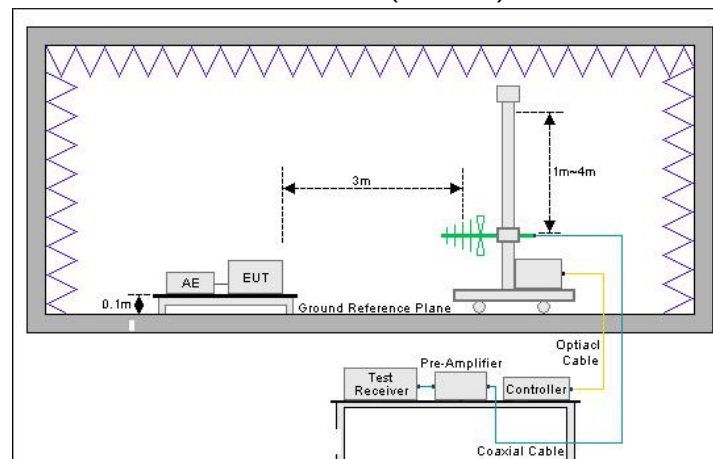
1) Conducted emission measurement:

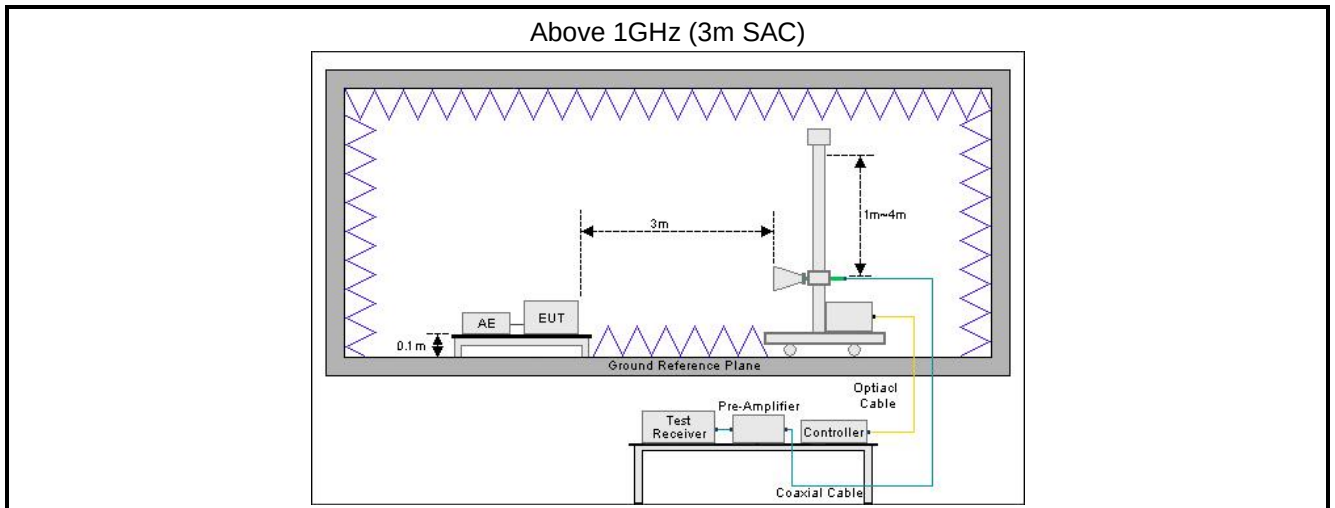


Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

Below 1GHz (3m SAC)





4.2 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

5 Test Results

5.1 Summary

5.1.1 Clause and data summary

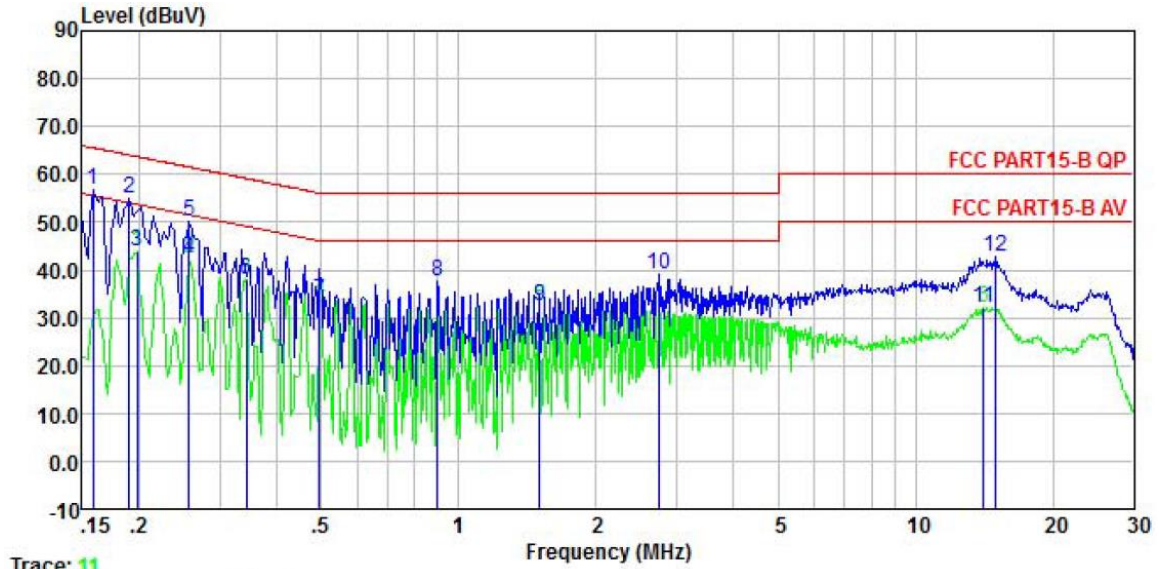
Test items	Standard clause		Test data	Result
Conducted Emission	Part 15.107	ANSI C63.10 clause 6.2	See Section 5.2	Pass
Radiated Emission	Part 15.109	ANSI C63.10 clause 6.4&6.5&6.6	See Section 5.3	Pass
Remark: 1. The EUT is a Class B digital device. 2. Pass: The EUT complies with the essential requirements in the standard. 3. N/A: Not Applicable.				
Test Method:	ANSI C63.4:2014			

5.1.2 Test Limit

Test items	Limit																																																					
Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBμV)</th><th colspan="2">Class B Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>79</td><td>66</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>73</td><td>60</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>73</td><td>60</td><td>60</td><td>50</td></tr><tr><td colspan="5">Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.</td></tr><tr><td colspan="5">Note 2: The more stringent limit applies at transition frequencies.</td></tr></table>	Frequency (MHz)	Class A Limit (dBμV)		Class B Limit (dBμV)		Quasi-Peak	Average	Quasi-Peak	Average	0.15 – 0.5	79	66	66 to 56 Note 1	56 to 46 Note 1	0.5 – 5	73	60	56	46	5 – 30	73	60	60	50	Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.					Note 2: The more stringent limit applies at transition frequencies.																							
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5.2 Conducted Emission

Product name:	TERO Smart Tennis Ball Machine/TERO PRO AI Tennis Ball Machine	Product model:	HYWT002
Test by:	Kiran Zeng	Test mode:	Charging+Working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



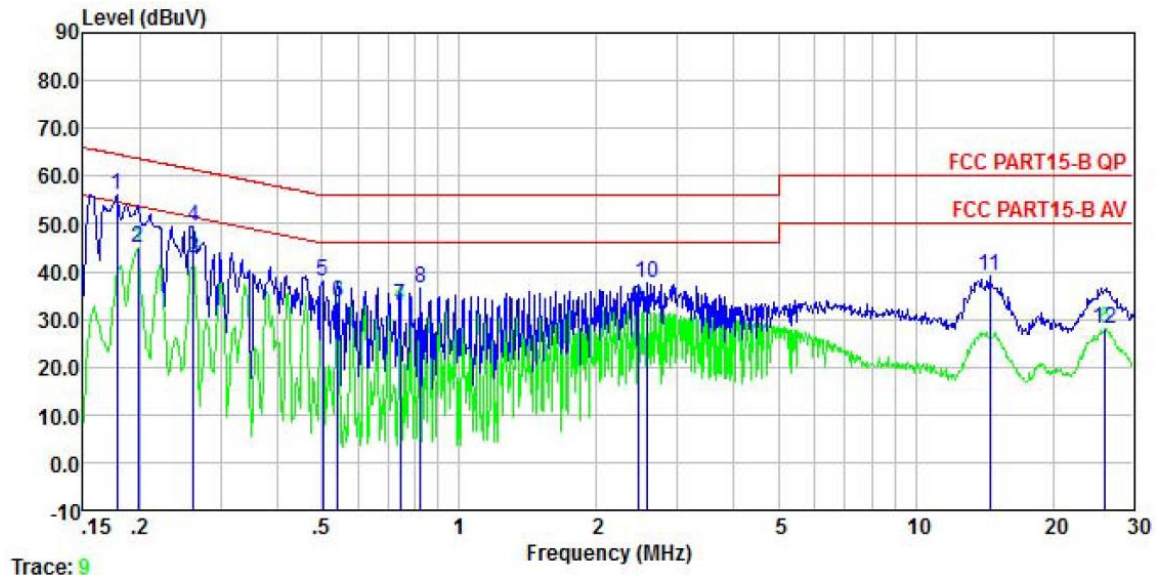
Trace: 11

	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.158	36.82	10.18	0.00	9.88	0.00	56.88	65.56	-8.68	QP
2	0.190	34.81	10.12	0.00	9.88	0.00	54.81	64.02	-9.21	QP
3	0.198	23.74	10.10	0.00	9.88	0.00	43.72	53.71	-9.99	Average
4	0.258	22.30	10.10	0.00	9.88	0.00	42.28	51.51	-9.23	Average
5	0.258	30.20	10.10	0.00	9.88	0.00	50.18	61.51	-11.33	QP
6	0.343	17.89	10.10	0.00	9.88	0.00	37.87	49.13	-11.26	Average
7	0.497	13.69	10.15	0.00	9.88	0.00	33.72	46.05	-12.33	Average
8	0.899	17.48	10.15	0.00	9.88	0.00	37.51	56.00	-18.49	QP
9	1.503	12.54	10.14	0.00	9.88	0.00	32.56	46.00	-13.44	Average
10	2.736	18.81	10.26	0.00	9.88	0.00	38.95	56.00	-17.05	QP
11	14.063	11.52	10.72	0.00	9.93	0.00	32.17	50.00	-17.83	Average
12	14.907	22.02	10.79	0.00	9.93	0.00	42.74	60.00	-17.26	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	TERO Smart Tennis Ball Machine/TERO PRO AI Tennis Ball Machine	Product model:	HYWT002
Test by:	Kiran Zeng	Test mode:	Charging+Working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.178	36.06	10.20	0.00	9.88	0.00	56.14	64.59	-8.45	QP
2	0.198	24.87	10.20	0.00	9.88	0.00	44.95	53.71	-8.76	Average
3	0.262	22.72	10.16	0.00	9.88	0.00	42.76	51.38	-8.62	Average
4	0.262	29.40	10.16	0.00	9.88	0.00	49.44	61.38	-11.94	QP
5	0.502	17.83	10.21	0.00	9.88	0.00	37.92	56.00	-18.08	QP
6	0.541	13.23	10.25	0.00	9.88	0.00	33.36	46.00	-12.64	Average
7	0.743	12.73	10.30	0.00	9.88	0.00	32.91	46.00	-13.09	Average
8	0.822	16.19	10.29	0.00	9.88	0.00	36.36	56.00	-19.64	QP
9	2.461	12.24	10.25	0.00	9.88	0.00	32.37	46.00	-13.63	Average
10	2.581	17.47	10.24	0.00	9.88	0.00	37.59	56.00	-18.41	QP
11	14.517	18.51	10.58	0.00	9.93	0.00	39.02	60.00	-20.98	QP
12	26.001	7.55	10.54	0.00	10.01	0.00	28.10	50.00	-21.90	Average

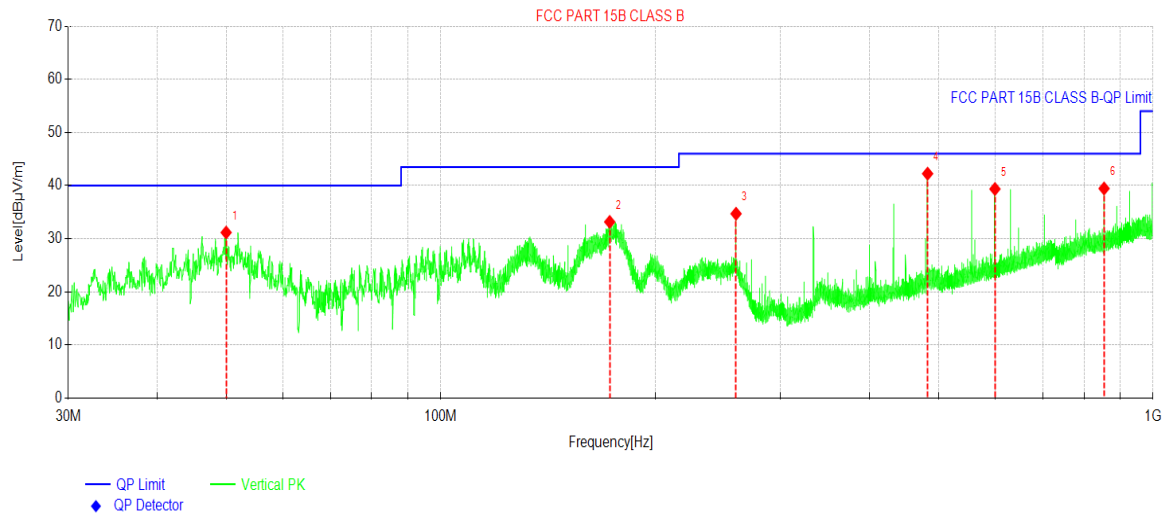
Remark:

1. Level = Read level + LISN Factor + Cable Loss.

5.3 Radiated Emission

Below 1GHz:

Product Name:	TERO Smart Tennis Ball Machine/TERO PRO AI Tennis Ball Machine	Product model:	HYWT002
Test By:	Robin Gu	Test mode:	Charging & Working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



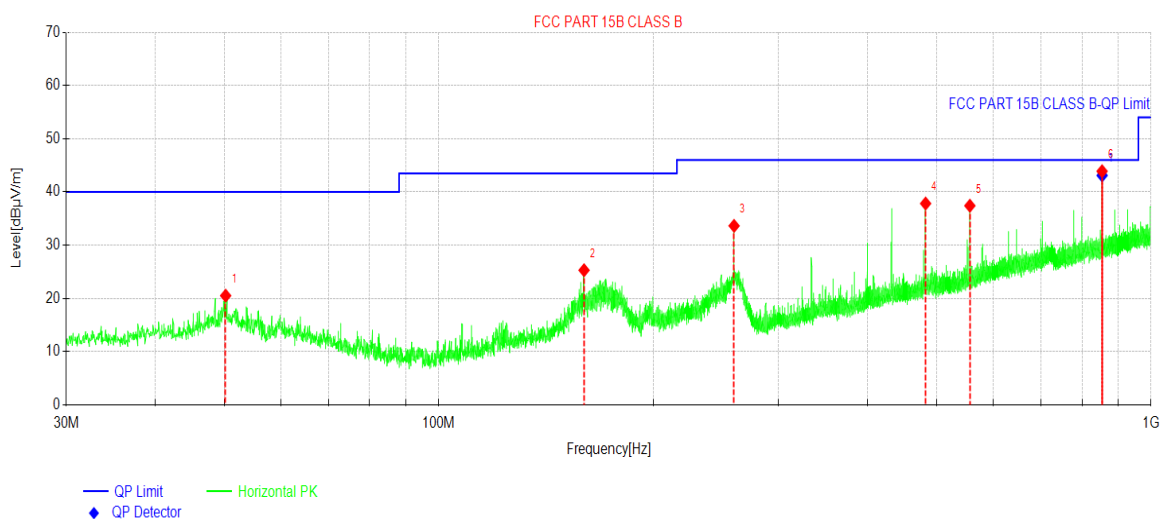
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	49.9830	45.66	-14.49	31.17	40.00	8.83	PK	Vertical
2	172.6941	47.13	-13.97	33.16	43.50	10.34	PK	Vertical
3	259.8530	49.36	-14.66	34.70	46.00	11.30	PK	Vertical
4	482.5761	49.45	-7.21	42.24	46.00	3.76	PK	Vertical
5	599.9520	43.79	-4.43	39.36	46.00	6.64	PK	Vertical
6	853.8622	37.94	1.51	39.45	46.00	6.55	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	TERO Smart Tennis Ball Machine/TERO PRO AI Tennis Ball Machine	Product model:	HYWT002
Test By:	Robin Gu	Test mode:	Charging & Working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	50.2255	33.93	-13.42	20.51	40.00	19.49	PK	Horizontal
2	159.9865	38.51	-13.21	25.30	43.50	18.20	PK	Horizontal
3	259.8530	47.21	-13.58	33.63	46.00	12.37	PK	Horizontal
4	482.5761	44.37	-6.54	37.83	46.00	8.17	PK	Horizontal
5	556.8333	42.18	-4.77	37.41	46.00	8.59	PK	Horizontal
6	853.8137	42.39	1.50	43.89	46.00	2.11	PK	Horizontal

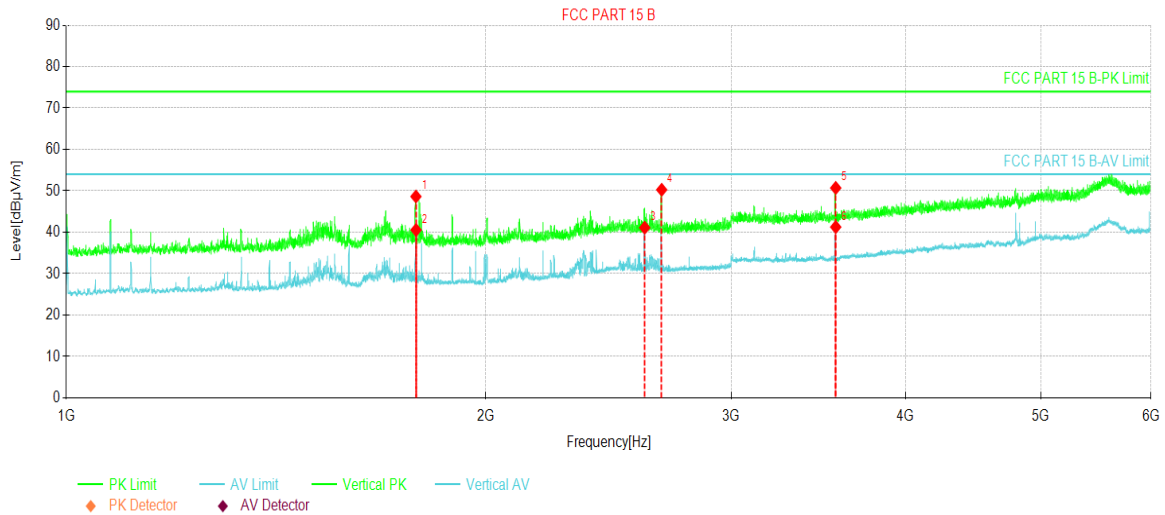
Final Data List								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Angle [°]	Verdict
1	853.8237	41.60	1.50	43.10	46.00	2.90	29.2	PASS

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

Product Name:	TERO Smart Tennis Ball Machine/TERO PRO AI Tennis Ball Machine	Product model:	HYWT002
Test By:	Kiran Zeng	Test mode:	Charging & Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		

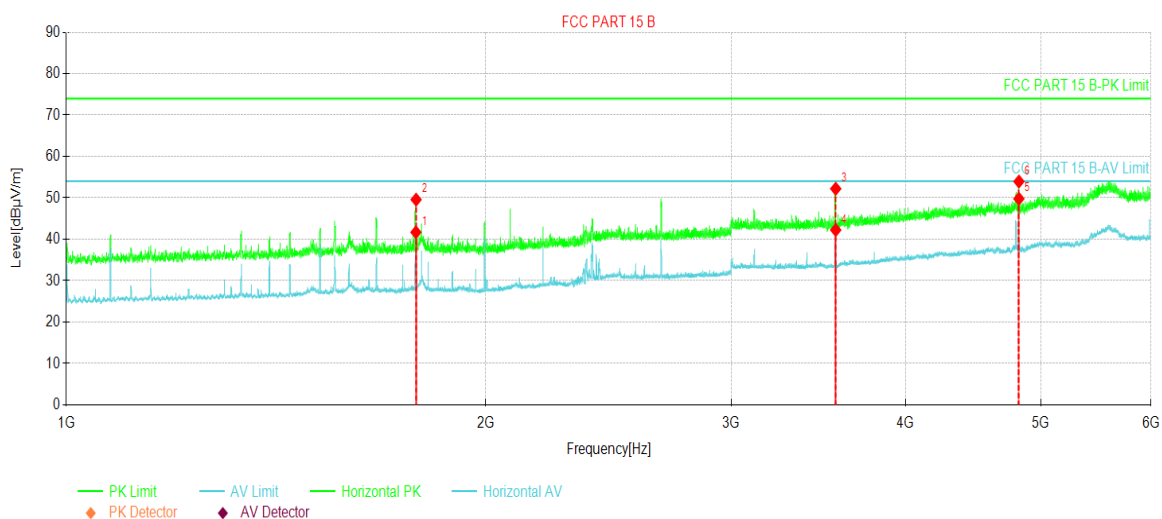


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1781.84	70.21	48.63	-21.58	74.00	25.37	PK	Vertical
2	1782.09	62.13	40.55	-21.58	54.00	13.45	AV	Vertical
3	2599.95	59.32	41.10	-18.22	54.00	12.90	AV	Vertical
4	2673.95	68.56	50.26	-18.30	74.00	23.74	PK	Vertical
5	3564.44	65.57	50.71	-14.86	74.00	23.29	PK	Vertical
6	3564.44	56.12	41.26	-14.86	54.00	12.74	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Product Name:	TERO Smart Tennis Ball Machine/TERO PRO AI Tennis Ball Machine	Product model:	HYWT002
Test By:	Kiran Zeng	Test mode:	Charging & Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1781.84	63.27	41.69	-21.58	54.00	12.31	AV	Horizontal
2	1782.34	71.16	49.58	-21.58	74.00	24.42	PK	Horizontal
3	3564.44	67.07	52.21	-14.86	74.00	21.79	PK	Horizontal
4	3564.44	57.09	42.23	-14.86	54.00	11.77	AV	Horizontal
5	4823.85	59.87	49.79	-10.08	54.00	4.21	AV	Horizontal
6	4824.22	64.03	53.95	-10.08	74.00	20.05	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

-----End of report-----