



EMC Test Report



Page: 1 / 20

Report No.: DNT2409100260E1597-02535
Applicant Name: Collection Design B.V.
Address: Kingsfordweg 151, 1043GR Amsterdam

The samples and sample information for the following tests are provided and confirmed by the applicant

Product Description: Portable Speaker
Brand Name: STYLISTIC
Tested Model: Speaker M
Electrical Rating: Input: DC 5V
Received Date: 2024-09-12
Tested Date: 2024-09-12 ~ 2024-09-24
Issued Date: 2024-09-30
Test Standards: AS/NZS CISPR 32:2015+AMD1:2020
Test Result: PASS

Prepared By: Leo Lu (Test Engineer)

Reviewed By: Mark Wu (Project Engineer)

Approved By: Yiwei Chen (Manager)

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V2.0	/	Sept.30, 2024	Original Report	/



TABLE OF CONTENTS

1. GENERAL INFORMATION	4
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
1.2 EUT OPERATION MODE AND TEST DETAILS	4
1.3 MEASUREMENT UNCERTAINTY	5
1.4 TEST FACILITY	5
1.5 TEST EQUIPMENT LIST AND DETAILS	5
2. SUMMARY OF TEST RESULTS	6
3. GENERAL REMARKS	7
3.1 COMPLEMENTARY MATERIALS	7
3.2 RESULT LEVEL & OVER LIMIT CALCULATION	7
4. CONDUCTED EMISSIONS	8
4.1 CONDUCTED EMISSION LIMIT	8
4.2 BLOCK DIAGRAM OF TEST SETUP	8
4.3 TEST PROCEDURE	9
4.4 ENVIRONMENTAL CONDITIONS	9
4.5 TEST DATA AND RESULT	10
5. RADIATED EMISSIONS	12
5.1 RADIATED EMISSION LIMIT	12
5.2 BLOCK DIAGRAM OF TEST SETUP	12
5.3 TEST PROCEDURE	13
5.4 ENVIRONMENTAL CONDITIONS	13
5.5 TEST DATA AND RESULT	14
EXHIBIT A – PHOTOGRAPHS OF TEST SETUP	18
EXHIBIT B – PHOTOGRAPHS OF EUT	20



1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information	
Applicant:	Collection Design B.V.
Address of applicant:	Kingsfordweg 151, 1043GR Amsterdam
Manufacturer:	Nowgo International Co.,Ltd
Address of manufacturer:	1903, Building 2, Manjinghua Science and Technology Innovation Workshop, No.6 Songjiang Road, Shapu Community, Songgang Street, Baoan District, Shenzhen

General Description of EUT	
Product Name:	Portable Speaker
Model No.:	Speaker M
Additional Model(s):	/
Difference description:	/
Rated Voltage:	Input: DC 5V
Adapter Information:	/
Equipment Category:	/
Highest Internal Frequency:	Above 108MHz

1.2 EUT Operation Mode and test details

Test Mode List		
Test Mode	Description	Remark
1	Charging	N/A
2	Normal working	N/A

Remark: Prescan all test mode, and performed the final measure on the mode of maximum emission and recorded the test data.

“ * ” means it's the worst mode.

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Power adapter	HUAWEI	HW-100225C00	KC9302N2P05213



1.3 Measurement Uncertainty

Parameter	Frequency	Measurement uncertainty
Conducted Emission (with AMN)	150kHz~30MHz	U= 2.7dB K=2
Conducted Emission (with ANN)	150kHz~30MHz	U= 2.8dB K=2
Radiated Emission	30MHz-1000MHz	U= 5.0dB K=2
Radiated Emission	Above 1000MHz	U= 5.4dB K=2

1.4 Test Facility

Test Site	Dongguan DN Testing Co., Ltd.
Test Location	No. 1, West Fourth Street, South Xinfa Road, Wusha Liwu, Chang 'an Town, Dongguan City, Guangdong P.R.China

1.5 Test Equipment List and Details

Test Equipment for Conducted Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESCI3	101152	2023-10-31	2024-10-30
LISN	R&S	ENV216	102874	2023-10-31	2024-10-30
ISN	R&S	ENY81-CA 6	0295	2023-10-31	2024-10-30
Test Equipment for Radiated Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2023-10-31	2024-10-30
RF Cable	ETS-LINDGR EN	RFC-NMS- 100-NMS-3 50-IN	/	2023-10-31	2024-10-30
Log periodic antenna	ETS-LINDGR EN	VULB 9168	01475	2023-10-31	2024-10-30
Horn Antenna	ETS-LINDGR EN	3117	00252566	2023-10-31	2024-10-30
Preamplifier	Schwarzbeck	BBV9743B	00423	2023-10-31	2024-10-30
Preamplifier	ETS-LINDGR EN	3117-PA	00252566	2023-10-31	2024-10-30
Preamplifier	ETS-LINDGR EN	3116C-PA	00251779	2023-10-31	2024-10-30



2. SUMMARY OF TEST RESULTS

Emissions		
Test Standards	Description of Test Item	Result
AS/NZS CISPR 32:2015+AMD1:2020	Conducted Emissions	PASS
	Radiated Emissions	PASS

*Note1: N/A means not applicable.



3. GENERAL REMARKS

When applying the basic standard in this test report, the latest amendment is always included.

3.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test Result

3.2 Result Level & Over Limit Calculation

The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including LISN Factor and the Cable Factor etc.), The basic equation is as follows:

Measurement = Reading Level + Correct Factor(including LISN Factor ,Cable Factor etc.)

The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a “Over Limit” of -6dB means the emission is 6dB below the maximum limit for device. The equation for “over limit” calculation is as follows:

Over Limit = Measurement(Result Level) –Limit

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a “Margin” of 6dB means the emission is 6dB below the maximum limit for device. The equation for “over limit” calculation is as follows:

Margin = Limit–value&Level

Notes:

For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.



4. Conducted Emissions

4.1 Conducted Emission Limit

Requirements for conducted emissions from the AC mains power ports of Class B equipment

Frequency Range	Quasi Peak(dB μ V)	Average(dB μ V)
0.15-0.5	66-56	56-46
0.5-5	56	46
5-30	60	50

Note1 The lower limit shall apply at the transition frequencies.

Note2 The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

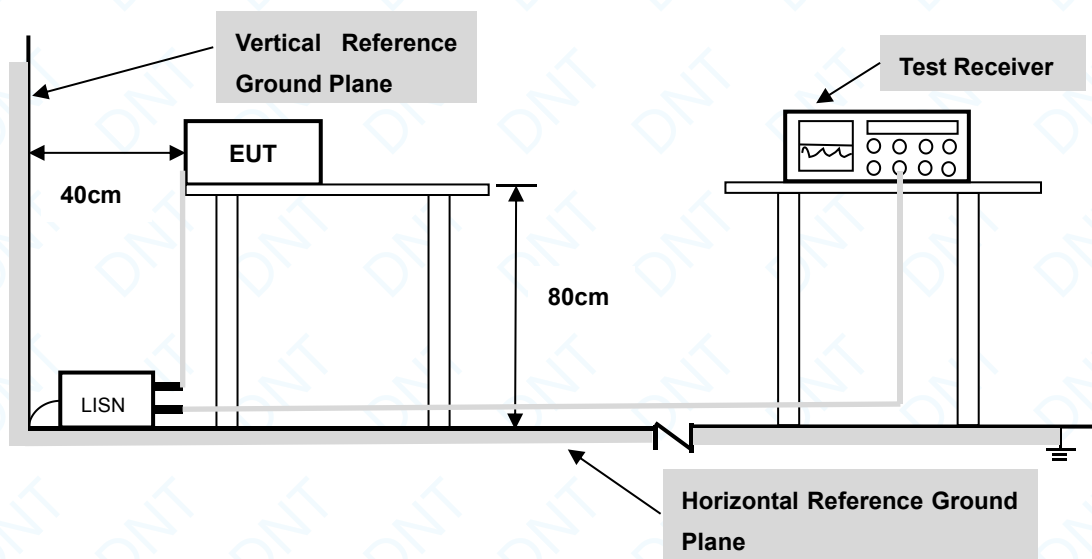
Requirements for asymmetric mode conducted emissions from Class B equipment

Frequency Range	Quasi Peak(dB μ V)	Average(dB μ V)
0.15-0.5	84-74	74-64
0.5-30	74	64

Note1 The lower limit shall apply at the transition frequencies.

Note2 The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.2 Block Diagram of Test Setup





4.3 Test Procedure

During the conducted emissions test, the adapter was connected to the main outlet of the first LISN and the other support equipment were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

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

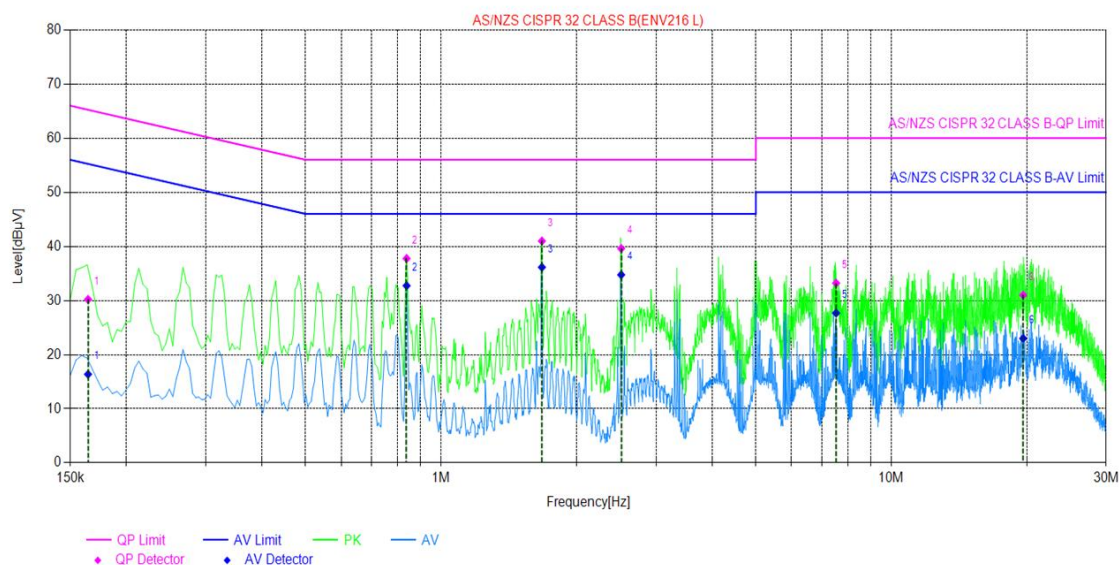
4.4 Environmental Conditions

Temperature:	25°C
Relative Humidity:	60%
Atmospheric Pressure:	101.3 kPa
Test Voltage:	DC 5V from adapter by AC 230V/50Hz
Test Mode:	1
Test Date:	2024-09-18
Tested By:	Eric Huang



4.5 Test Data and Result

L1:

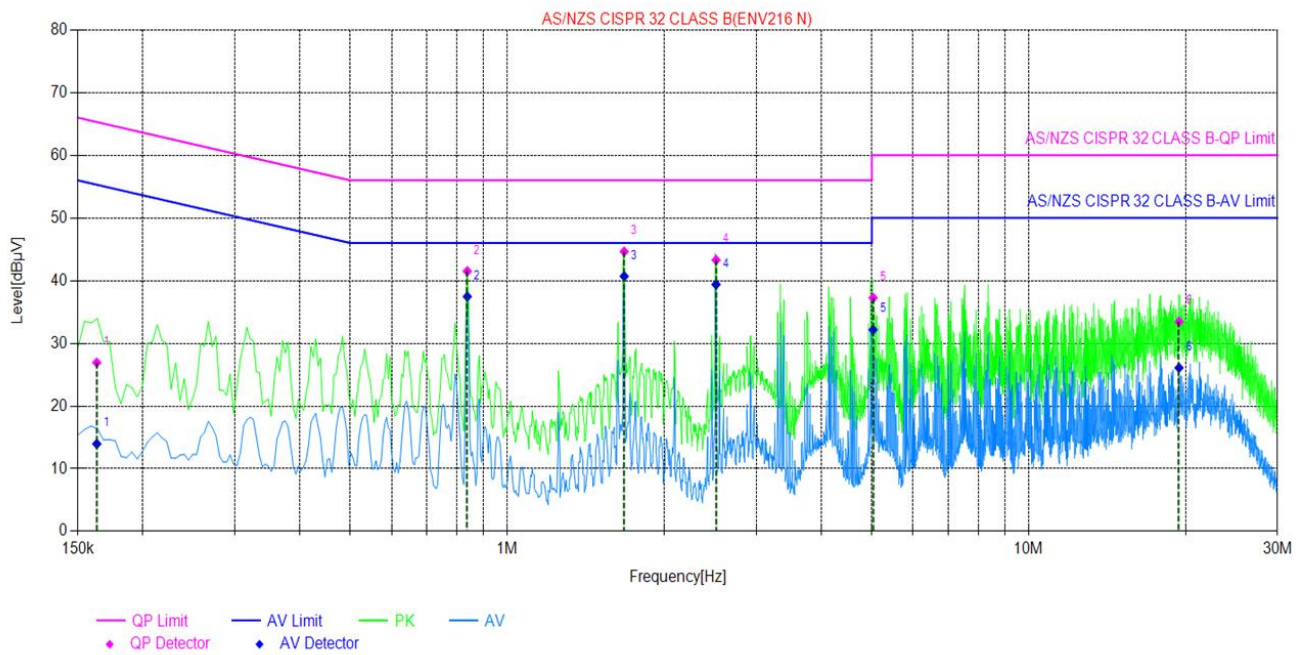


Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1643	9.90	30.21	65.24	35.03	16.37	55.24	38.87	PASS
2	0.8380	9.74	37.76	56.00	18.24	32.73	46.00	13.27	PASS
3	1.6743	9.73	40.99	56.00	15.01	36.15	46.00	9.85	PASS
4	2.5117	9.73	39.61	56.00	16.39	34.75	46.00	11.25	PASS
5	7.5416	9.87	33.22	60.00	26.78	27.67	50.00	22.33	PASS
6	19.6356	10.12	31.00	60.00	29.00	22.99	50.00	27.01	PASS



N:



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1631	9.81	26.92	65.30	38.38	13.95	55.30	41.35	PASS
2	0.8379	9.78	41.50	56.00	14.50	37.46	46.00	8.54	PASS
3	1.6755	9.74	44.64	56.00	11.36	40.70	46.00	5.30	PASS
4	2.5138	9.82	43.29	56.00	12.71	39.39	46.00	6.61	PASS
5	5.0297	9.98	37.26	60.00	22.74	32.16	50.00	17.84	PASS
6	19.4253	10.05	33.45	60.00	26.55	26.09	50.00	23.91	PASS



5. Radiated Emissions

5.1 Radiated Emission Limit

Requirements for radiated emissions at frequencies up to 1GHz for Class B equipment

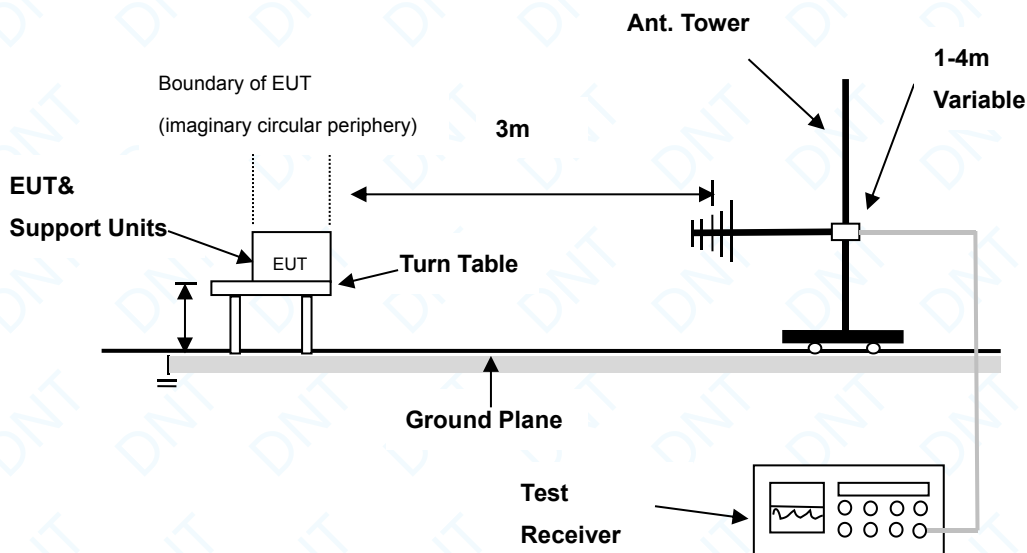
Frequency range (MHz)	Measurement		Class B limits dB(μ V/m)
	Distance (m)	Detector type/bandwidth	
30 ~ 230	3	Quasi Peak/120kHz	40
230 ~ 1000			47

Requirements for radiated emissions at frequencies above 1GHz for Class B equipment

Frequency range (MHz)	Measurement		Class B limits dB(μ V/m)
	Distance (m)	Detector type/bandwidth	
1000 ~ 3000	3	Average/1MHz	50
3000 ~ 6000			54
1000 ~ 3000	3	Peak/1MHz	70
3000 ~ 6000			74

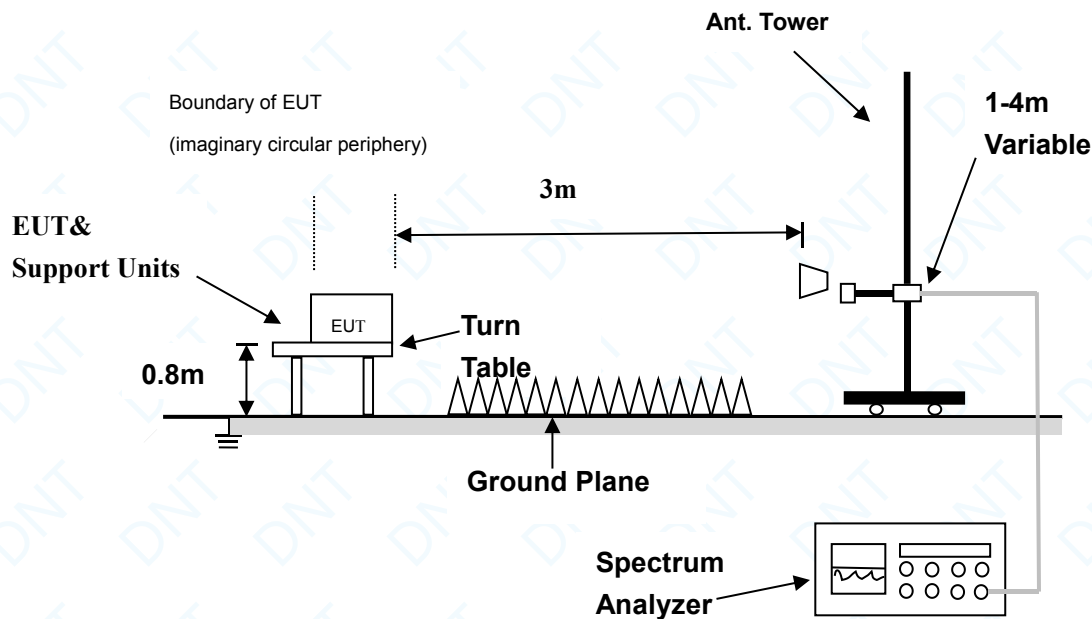
5.2 Block Diagram of Test Setup

Radiated Emissions Frequency: 30MHz to 1000MHz:





Radiated Emissions Frequency: 1000MHz to 6000MHz:



5.3 Test Procedure

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual.
- (2) The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (3) Recorded at least the six highest emissions.

5.4 Environmental Conditions

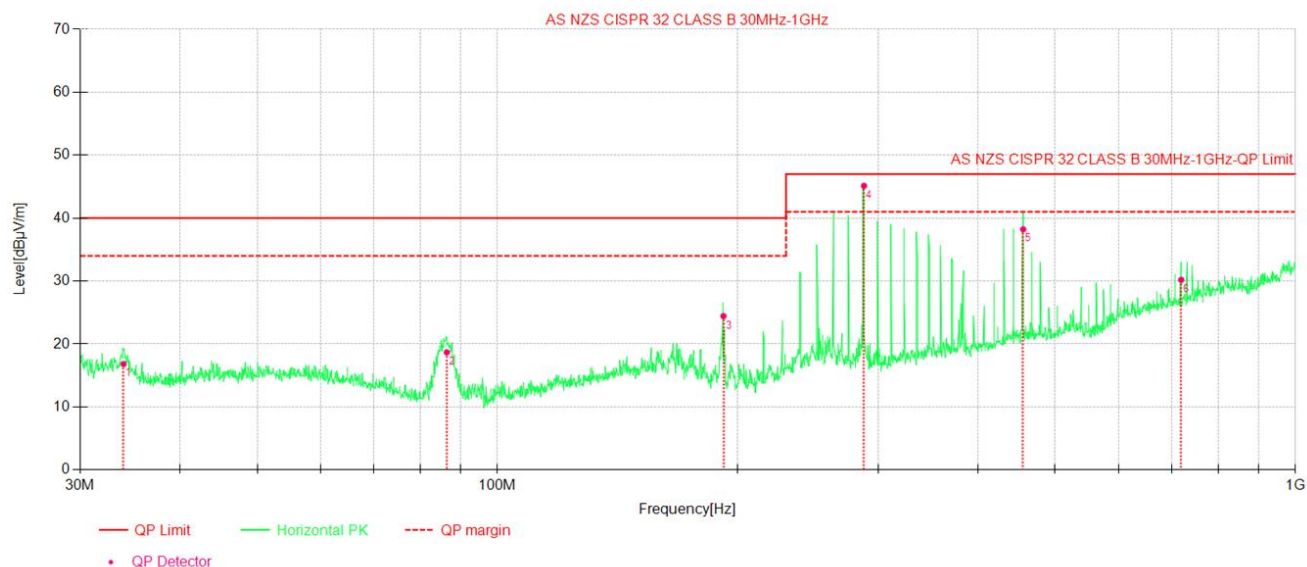
Temperature:	25°C
Relative Humidity:	60%
Atmospheric Pressure:	101.3 kPa
Test Voltage:	DC 5V from adapter by AC 230V/50Hz
Test Mode:	1, 2
Test Date:	2024-09-19
Tested By:	Leo Lu



5.5 Test Data and Result

Below 1GHz

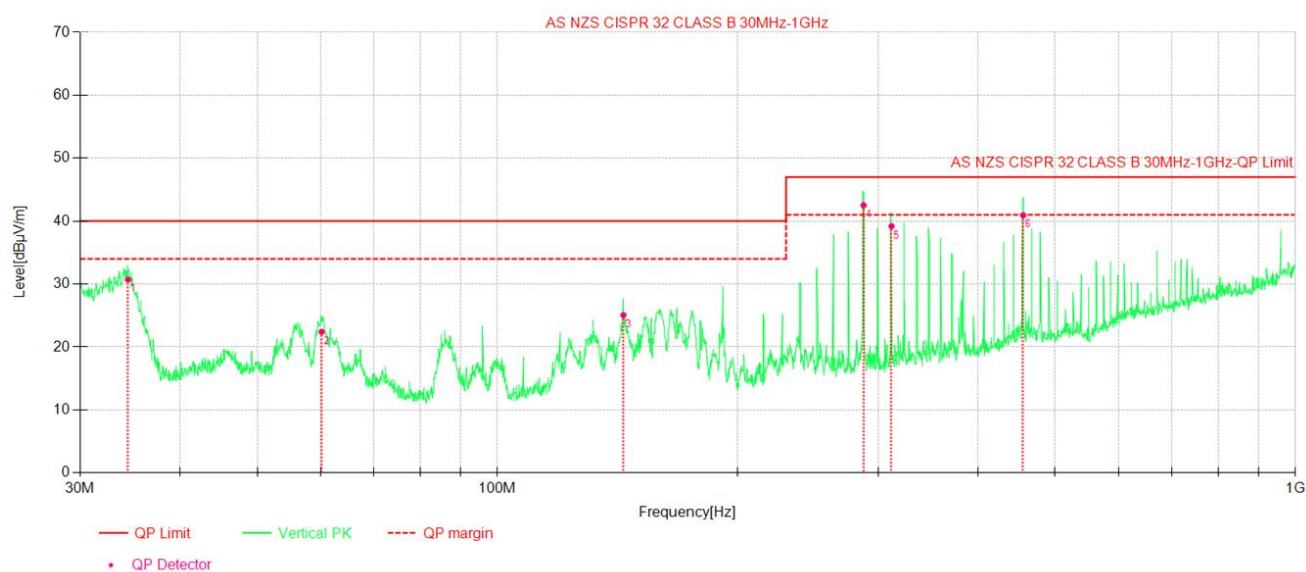
Horizontal:



Final Data List									
NO	Freq. [MHz]	Factor[dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	33.99673	-9.40	16.82	40.00	23.18	100	211	Horizontal	PASS
2	86.40184	-13.76	18.68	40.00	21.32	200	21	Horizontal	PASS
3	191.9692	-10.70	24.43	40.00	15.57	100	288	Horizontal	PASS
4	287.9906	-7.30	45.14	47.00	1.86	120	151.7	Horizontal	PASS
5	455.9058	-2.68	38.23	47.00	8.77	100	198	Horizontal	PASS
6	719.1995	2.52	30.20	47.00	16.80	100	142	Horizontal	PASS



Vertical:

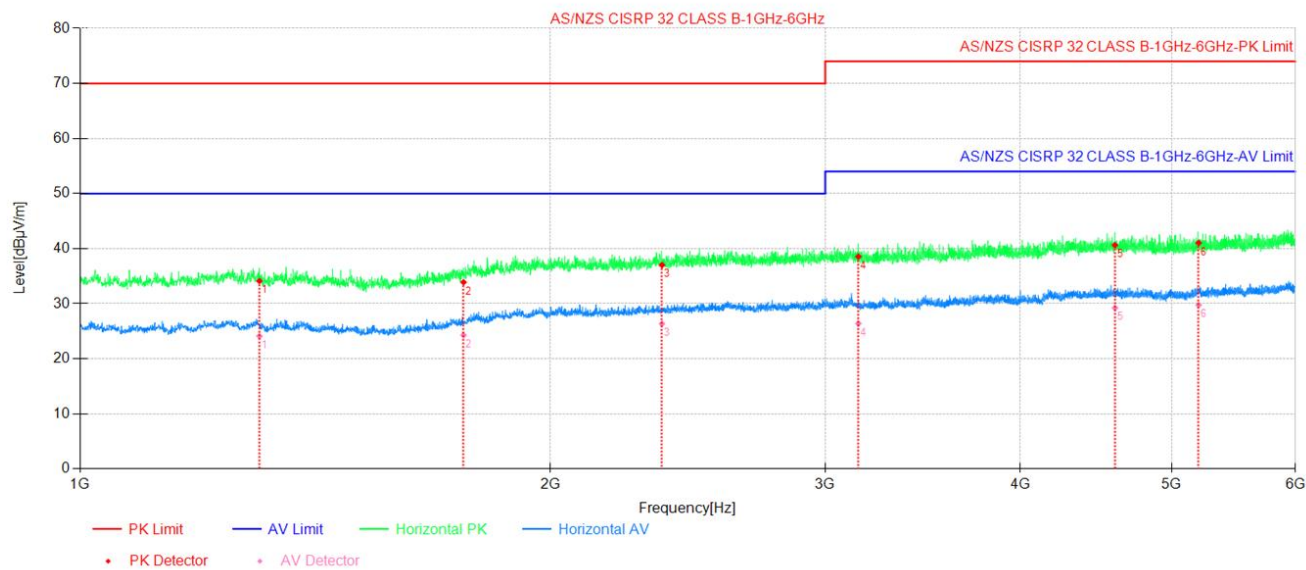


Final Data List

NO	Freq. [MHz]	Factor[dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	34.43667	-9.38	30.73	40.00	9.27	100	0	Vertical	PASS
2	60.20970	-8.78	22.41	40.00	17.59	100	344	Vertical	PASS
3	143.8295	-8.23	25.07	40.00	14.93	100	39	Vertical	PASS
4	287.6540	-7.30	42.53	47.00	4.47	200	359	Vertical	PASS
5	311.8147	-6.58	39.20	47.00	7.80	100	350	Vertical	PASS
6	455.9058	-2.68	40.93	47.00	6.07	200	146	Vertical	PASS



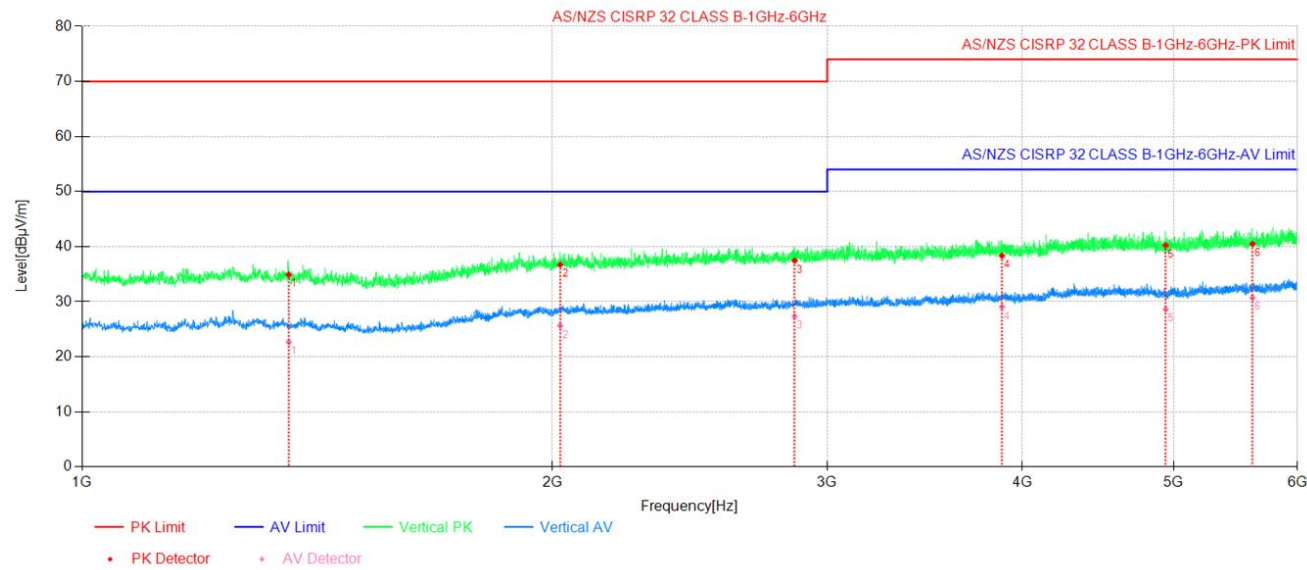
Above 1GHz
Horizontal:



PK Final Data List											
NO	Freq. [MHz]	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1302.53	-13.56	34.11	70.00	35.89	24.11	50.00	25.89	100	211	Horizontal
2	1760.07	-11.86	33.89	70.00	36.11	24.28	50.00	25.72	100	32	Horizontal
3	2358.13	-8.20	37.02	70.00	32.98	26.35	50.00	23.65	100	312	Horizontal
4	3150.21	-5.61	38.55	74.00	35.45	26.39	54.00	27.61	100	271	Horizontal
5	4598.35	-1.59	40.63	74.00	33.37	29.23	54.00	24.77	100	242	Horizontal
6	5202.42	-0.86	41.04	74.00	32.96	29.76	54.00	24.24	100	260	Horizontal



Vertical:



PK Final Data List											
NO	Freq. [MHz]	Factor [dB]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1356.03	-13.66	34.93	70.00	35.07	22.67	50.00	27.33	100	354	Vertical
2	2023.60	-9.58	36.72	70.00	33.28	25.64	50.00	24.36	100	176	Vertical
3	2859.18	-6.66	37.46	70.00	32.54	27.33	50.00	22.67	100	28	Vertical
4	3881.28	-3.60	38.34	74.00	35.66	29.05	54.00	24.95	100	339	Vertical
5	4941.39	-2.07	40.25	74.00	33.75	28.62	54.00	25.38	100	67	Vertical
6	5615.46	-0.49	40.49	74.00	33.51	30.70	54.00	23.30	100	273	Vertical

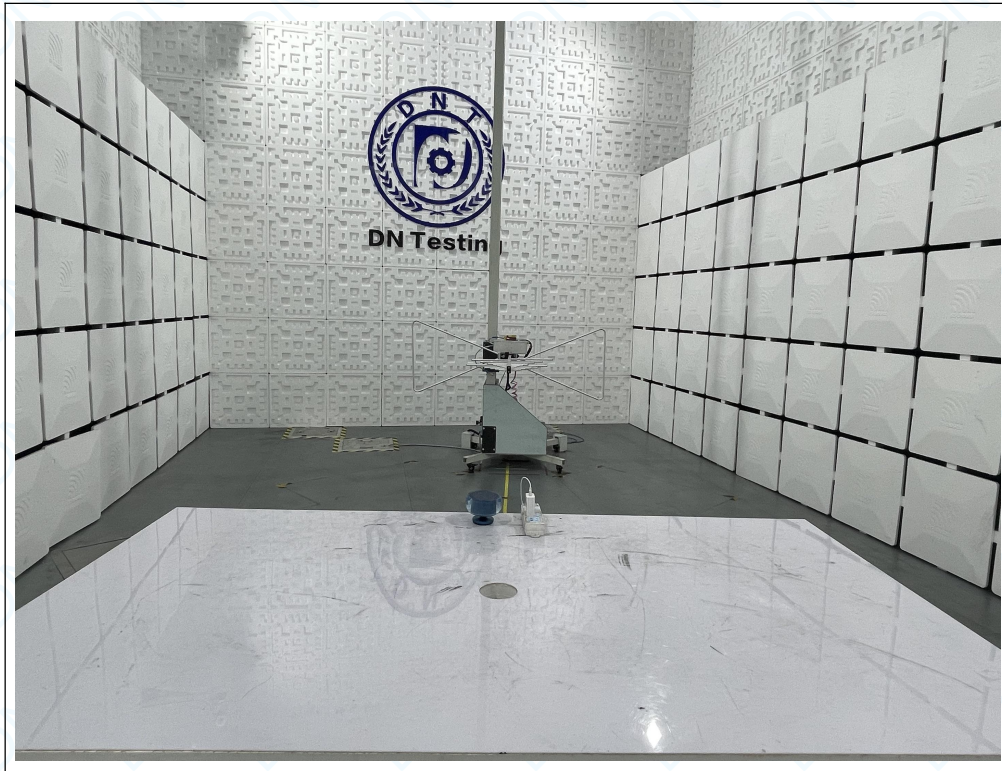


EXHIBIT A – PHOTOGRAPHS OF TEST SETUP

Conducted Emission Test View(AC Mains)



Radiated Emission Test View(Below 1GHz)





Radiated Emission Test View(Above 1GHz)



Radiated Emission Test View(Above 1GHz)

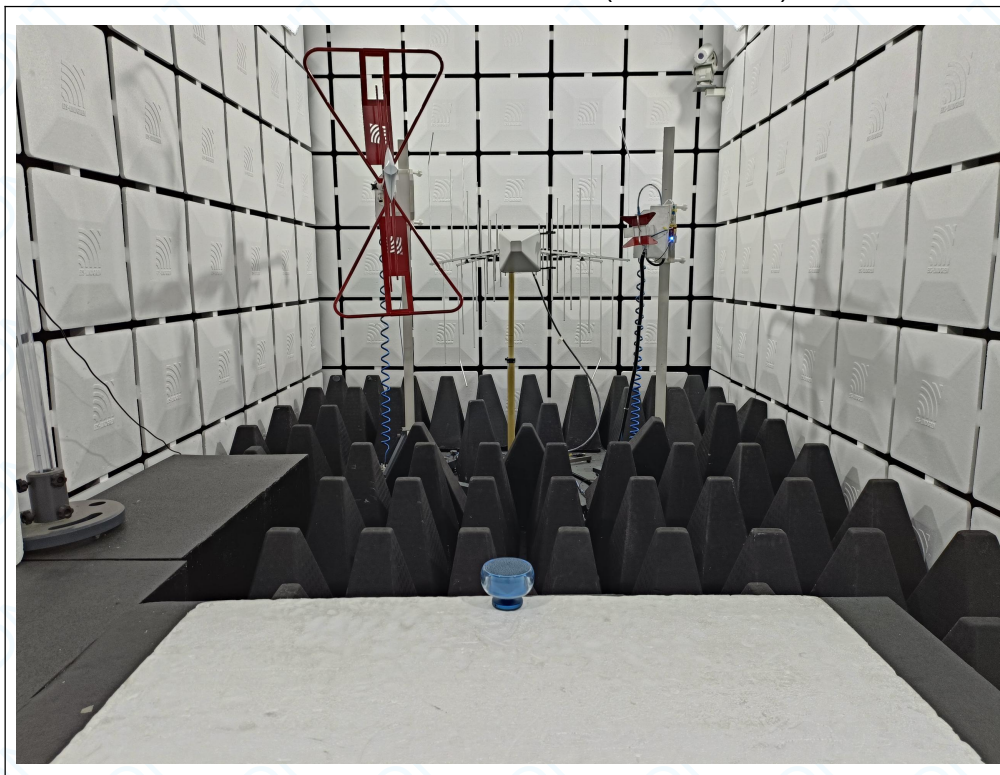
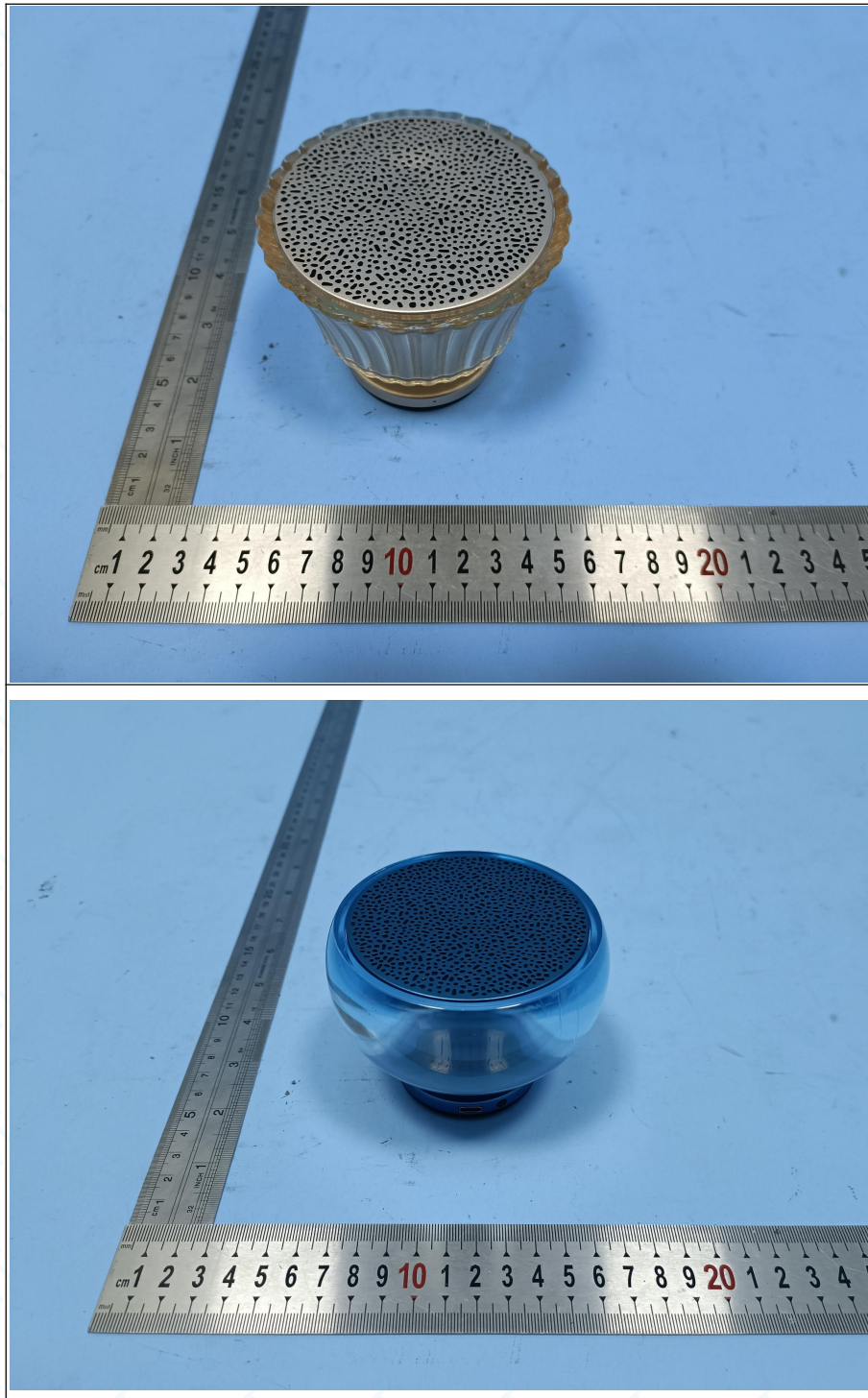




EXHIBIT B – PHOTOGRAPHS OF EUT



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