

TEST REPORT No: (5220)234-0059

TEST REPORT

To:	BRANFORD LIMITED	To:	-
Attn:	DICKSON LEUNG	Attn:	-
Address:	15 th Floor, Railway Plaza, 39 Chatham Road South, Tsimshatsui, Kowloon	Address:	-
Fax:	23682087	Fax:	-
E-mail:	Dickson.leung@branford.com	E-mail:	-
Folder No.:	--		

Factory name:	--
Location:	--
Product:	Symphony in B. Model No.: BX1977Z



Sample No:	(5220)234-0059
Test Date(s):	September 07, 2020 to September 16, 2020
Test Requested:	FCC Part 15
Test Method:	ANSI C63.10 – 2013
FCC ID:	SLURF1356BX1977Z

The results given in this report are related to the tested specimen of the described electrical apparatus.

CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.

Authorized Signature:

	
Reviewed by: Kinko Wong	Approved by: Sze Tsz Man
Date: December 11, 2020	Date: December 11, 2020

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Test Result Summary

EMISSION TEST			
Test requirement: FCC Part 15			
Test Condition	Test Method	Test Result	
		Pass	Failed
Radiated Emission Test, 9kHz to 1GHz	ANSI C63.10	☒	☐
20 dB Bandwidth of Fundamental Emission	ANSI C63.10	☒	☐
Frequency Drift	ANSI C63.10	☒	☐

Report Revision & Sample Re-submit History:

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Location of the test laboratory

Bureau Veritas Hong Kong Limited

Room 03, 6/F, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Radiated measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013. Semi-anechoic Chamber are set up for investigation and located at:

LG1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong

List of measuring equipment

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
EMI TEST RECEIVER	R&S	ESU40	100190	10-OCT-2020	10-OCT-2021
SEMI-ANECHOIC CHAMBER	FRANKONIA	--	--	20-MAR-2020	20-MAR-2021
BICONICAL ANTENNA	R&S	HK116	100242	7-MAR-2019	7-MAR-2021
LOG-PERIODIC ANTENNA	R&S	HL223	841516/019	6-MAR-2019	6-MAR-2021
ACTIVE LOOP ANTENNA	EMCO	6502	9107-2651	30-OCT-2019	30-OCT-2021
STANDARD GAIN HORN (8.2 – 12.4GHZ)	ETS-LINDGREN	3160-07	00205404	04-SEP-2018	04-SEP-2020
STANDARD GAIN HORN (12.4 – 18GHZ)	ETS-LINDGREN	3160-08	002056363	26-SEP-2018	26-SEP-2020
DOUBLE RIDGED HORN (1 – 8.2GHZ)	ETS-LINDGREN	3117	00094998	30-AUG-2018	30-AUG-2020
STANDARD GAIN HORN (26.5 – 40GHZ)	ETS-LINDGREN	3160-10	00205696	03-OCT-2018	03-OCT-2020
DOUBLE RIDGED HORN (18-26.5GHZ)	ETS-LINDGREN	3116	00109210	05-OCT-2018	05-OCT-2020
MICROWAVE PREAMPLIFIER	COM-POWER CORPORATION	PAM-118A	551091	6-MAR-2020	6-MAR-2021
PREAMPLIFIER (18 -40GHZ WITH CABLE)	A.H. Systems, Inc.	Pam-1840VH	168	30-JAN-2020	30-JAN-2021
COAXIAL CABLE	Huber+Suhner	CNM-NMCMILX800-473	A2803 #0001	04-OCT-2018	04-OCT-2020

Measurement Uncertainty:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	30MHz to 200MHz	±5.2dB
	200MHz to 1GHz	±6.1dB
	1GHz to 8.2GHz	±4.9dB
	8.2GHZ to 12.4GHz	±4.3dB
	12.4GHz to 18GHz	±4.6dB

Remarks: -

N/A: Not Applicable or Not Available

Measurement uncertainty is calculated in accordance with CISPR 16-4-2.

The statement of compliance is based on a 95% coverage probability for the expanded uncertainty of the measurement result using a coverage factor $k = 2$.

Compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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General Information	
Product:	Symphony in B.
Model Number:	BX1977Z
Data Cable:	--
Power Line Cable:	--
Accessory Device:	--
Additional Product Name:	--
Additional Model Number:	--
Additional Model Information:	--
Adaptor:	--
Model:	--
Input:	--
Input power line cable:	--
Output:	--
Output power line cable:	--
Technical Information	
Rated Voltage:	9Vd.c. ("AA" size battery x 6)
Power supply:	9Vd.c. ("AA" size battery x 6)
Other information:	--
Disclaimer Note: Technical information stated on this table are provided by client. All tests were conducted base on the technical information provided above.	

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Description of EUT Operation:

The Equipment Under Test (EUT) is a **BRANFORD LIMITED** of RFID toy. The transmitter with 13 Tags is operating at 13.56 MHz. The transmitter continues to transmit when buttons is turn to ON and the Passive Tags provoked the signal transmission when the transmitter track on them. Modulation by IC, and type is amplitude modulation.

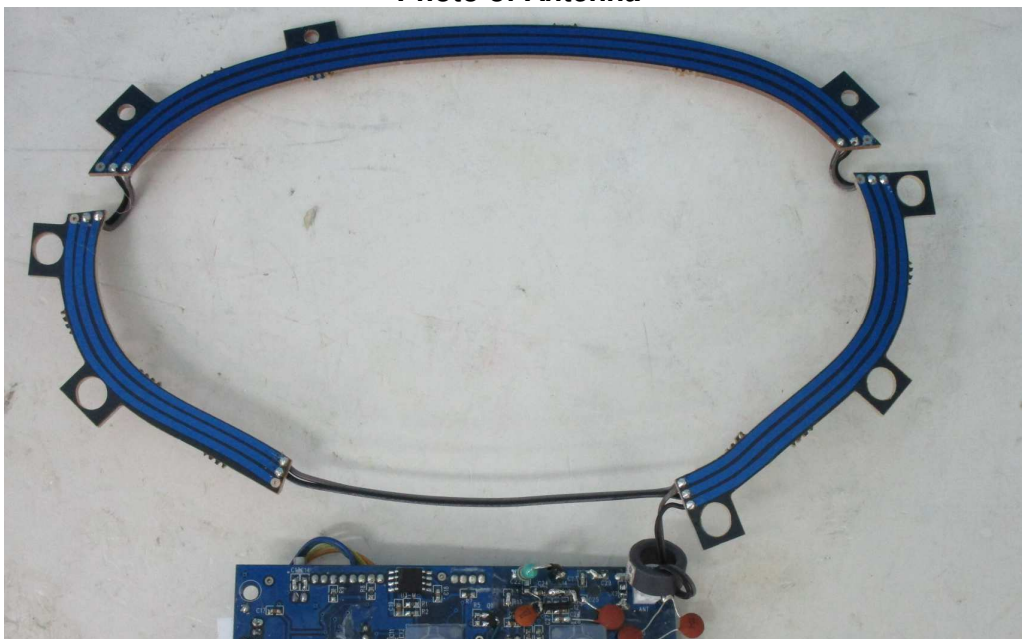
The transmitter has different control:

1. Play song control – play the next song
2. Demo – play a loop of songs
3. Volume control – control the volume
4. Tempo control – control the tempo
5. Stop song control – stop the song
6. On/Off switch – control power on/off

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 50cm long signal. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

Photo of Antenna



TEST REPORT No: (5220)234-0059

Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.225
Test Method: ANSI C63.10
Test Date(s): 2020-09-07
Temperature: 25.0 °C
Humidity: 55.0 %
Mode of Operation: Transmission mode
Tested Voltage: 9Vd.c. ("AA" size battery x 6)

Test Procedure:

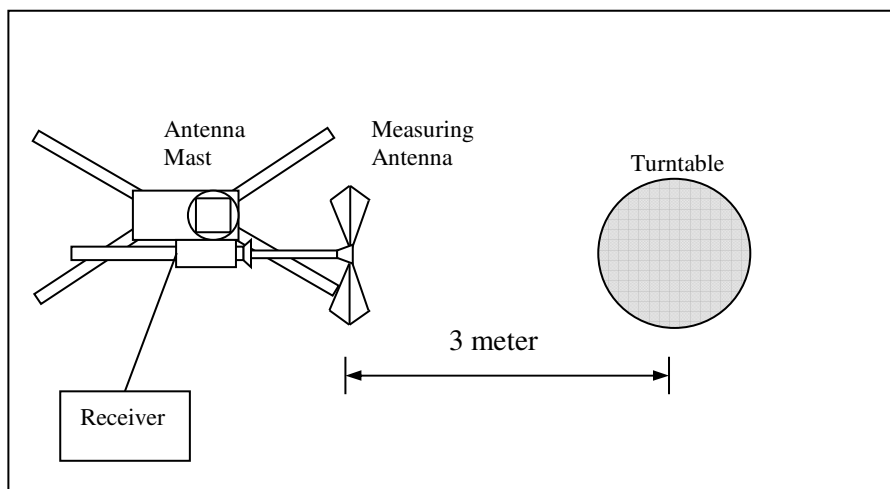
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. 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. For battery operated equipment, the equipment tests shall be performed using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: Hong Kong Productivity Council – Electromagnetic Compatibility Centre

Test Setup: Semi-anechoic chamber



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.225]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission at 3m
13.553-13.567	124 dBμV/m

Measurement Data

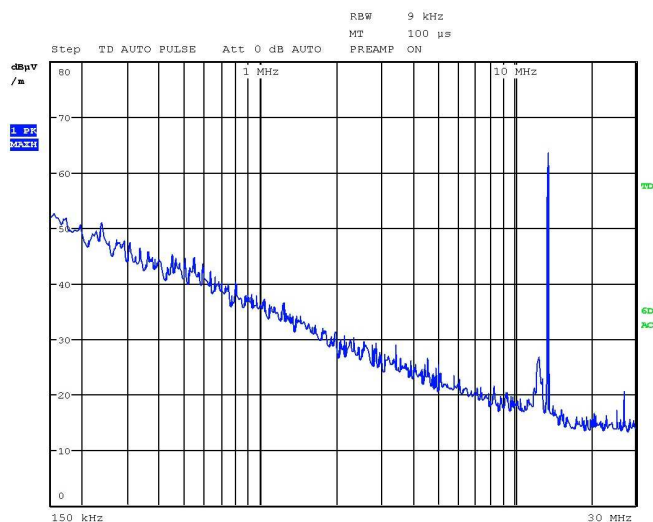
Test Result of (Transmission mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
13.56	V/0°	10.6	63.8	124.0	-60.2

Note: Field Strength = Receiver Reading + Antenna Factor + Cable Loss
Margin = Field Strength - Limit

Receiver setting: RBW = 9 kHz



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Radiated Emissions (9kHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209
Test Method: ANSI C63.10
Test Date(s): 2020-09-07
Temperature: 24.0 °C
Humidity: 50.0 %
Mode of Operation: Transmission mode / On mode / Demo mode
Tested Voltage: 9Vd.c. ("AA" size battery x 6)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	240000/F(kHz)
0.490-1.705	240000/F(kHz)
1.705-30	300
30-88	100
88-216	150
216-960	200
Above960	500

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Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Emissions detected are more than 20 dB below the limit line(s) in 9kHz to 150kHz					

Note: Field Strength = Receiver Reading + Antenna Factor + Cable Loss
Margin = Field Strength – Limit

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
27.13	V/0°	23.1	23.1	49.5	-26.4

Note: Field Strength = Receiver Reading + Antenna Factor + Cable Loss
Margin = Field Strength - Limit

Receiver setting: RBW = 9 kHz

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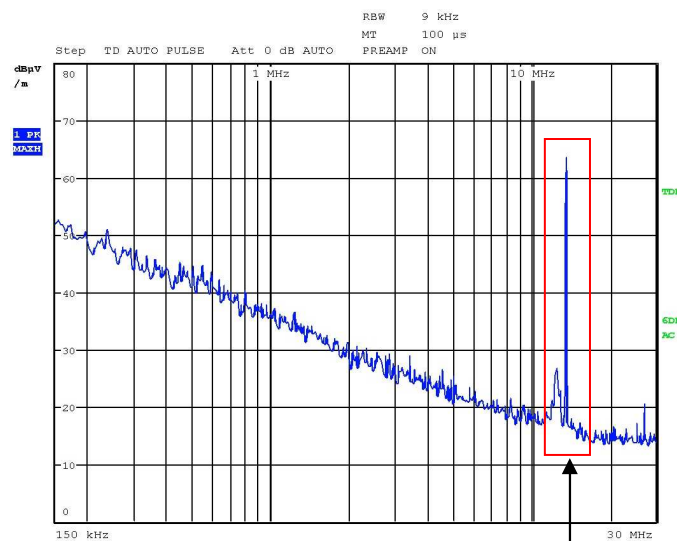
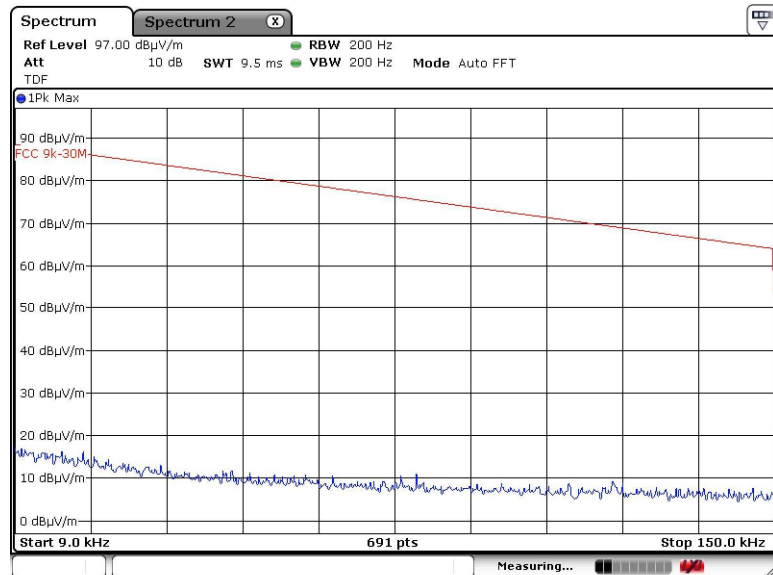
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Measurement Data

Test Plot of (Transmission mode): PASS



Fundamental emission

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Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Emissions detected are more than 20 dB below the limit line(s) in 9kHz to 30MHz					

Note: Field Strength = Receiver Reading + Antenna Factor + Cable Loss
Margin = Field Strength – Limit

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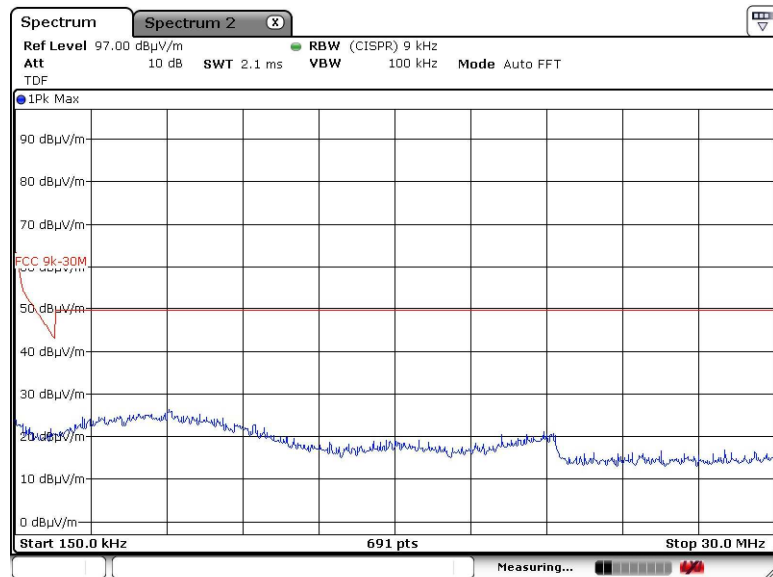
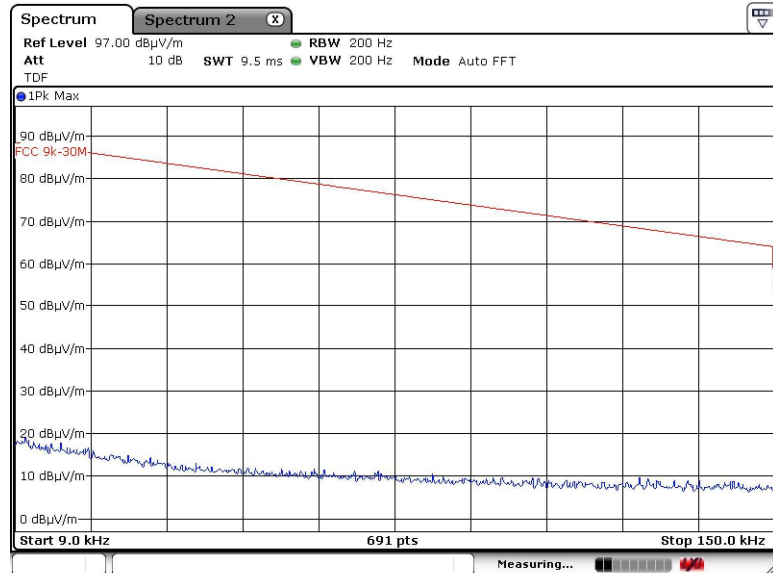
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Measurement Data

Test Plot of (On mode): PASS



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Test Result of (Demo mode): PASS

Detection mode: Quasi-Peak

Frequency	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Emissions detected are more than 20 dB below the limit line(s) in 9kHz to 30MHz					

Note: Field Strength = Receiver Reading + Antenna Factor + Cable Loss
Margin = Field Strength – Limit

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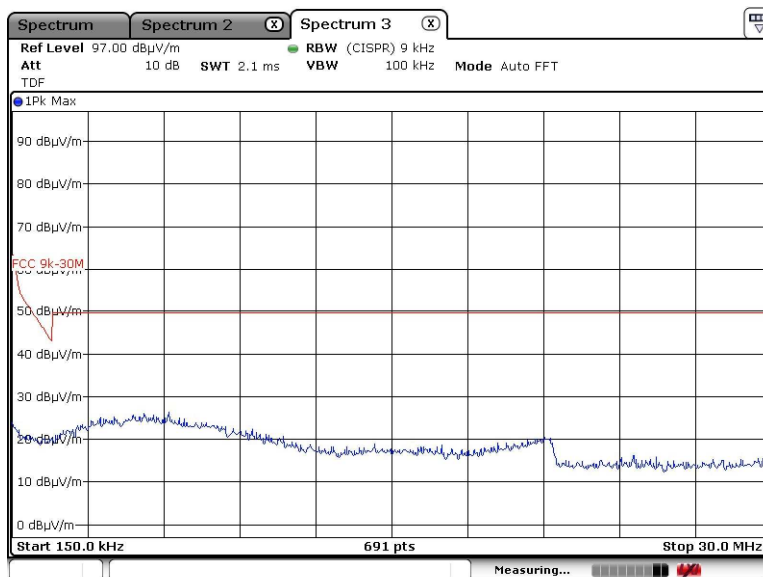
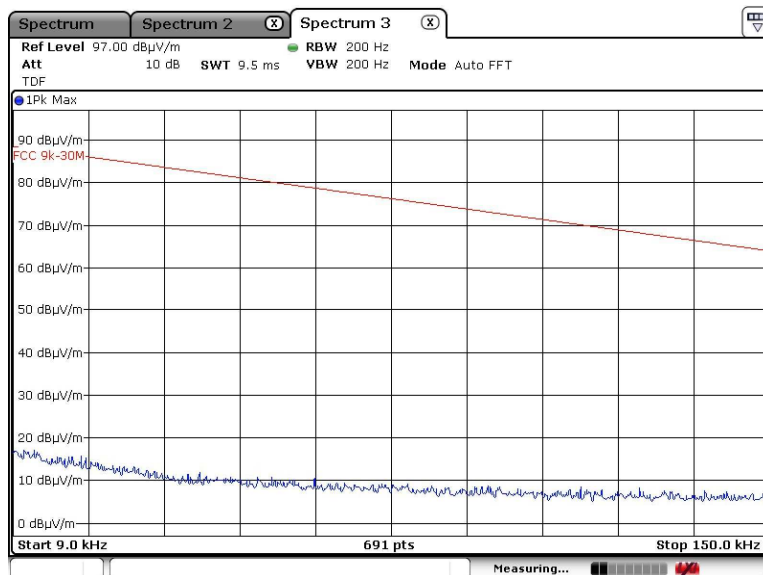
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TEST REPORT No: (5220)234-0059

Measurement Data

Test Plot of (Demo mode): PASS



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TEST REPORT No: (5220)234-0059

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
40.69	H	11.3	28.4	40.0	-11.6
54.25	H	9.8	12.3	40.0	-27.7
67.82	H	8.6	28.5	40.0	-11.5
81.38	H	8.9	18.0	40.0	-22.0
94.94	H	9.5	32.9	43.5	-10.6
108.51	H	11.1	26.9	43.5	-16.6
122.07	H	11.6	37.4	43.5	-6.1
135.63	H	12.5	25.5	43.5	-18.0
149.19	H	13.0	24.7	43.5	-18.8

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
40.69	V	11.3	34.6	40.0	-5.4
54.25	V	9.8	16.6	40.0	-23.4
67.82	V	8.6	24.1	40.0	-15.9
81.38	V	8.9	10.3	40.0	-29.7
94.94	V	9.5	25.4	43.5	-18.1
108.51	V	11.1	15.1	43.5	-28.4
122.07	V	11.6	23.6	43.5	-19.9
135.63	V	12.5	20.2	43.5	-23.3
149.19	V	13.0	20.5	43.5	-23.0

Note: Field Strength = Receiver Reading + Antenna Factor + Cable Loss
Margin = Field Strength - Limit

Receiver setting: RBW = 120 kHz

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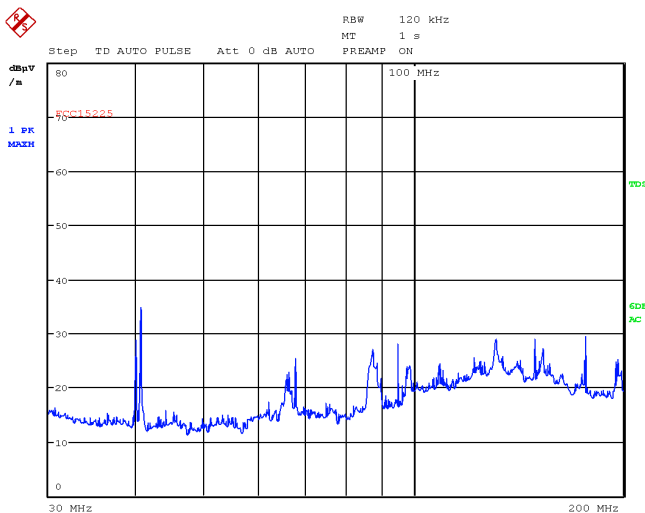
TEST REPORT No: (5220)234-0059

Measurement Data

Test plot of (Transmission mode, Horizontal): PASS



Test plot of (Transmission mode, Vertical): PASS



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TEST REPORT No: (5220)234-0059

Measurement Data

Test Result of (On mode): **PASS**

Detection mode: **Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
40.69	H	11.3	29.0	40.0	-11.0
122.07	H	11.6	36.5	43.5	-7.0
149.19	H	13.0	36.6	43.5	-6.9
364.58	H	16.1	22.6	46.0	-23.4
393.32	H	17.1	16.9	46.0	-29.1
718.10	H	22.6	24.0	46.0	-22.0

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
40.69	V	11.3	34.6	40.0	-5.4
151.86	V	13.0	27.6	43.5	-15.9
182.45	V	14.2	43.3	43.5	-0.2
203.45	V	14.9	21.3	43.5	-22.2
230.60	V	12.3	17.2	46.0	-28.8
262.28	V	12.7	22.4	46.0	-23.6

Note: Field Strength = Receiver Reading + Antenna Factor + Cable Loss
Margin = Field Strength - Limit

Receiver setting: RBW = 120 kHz

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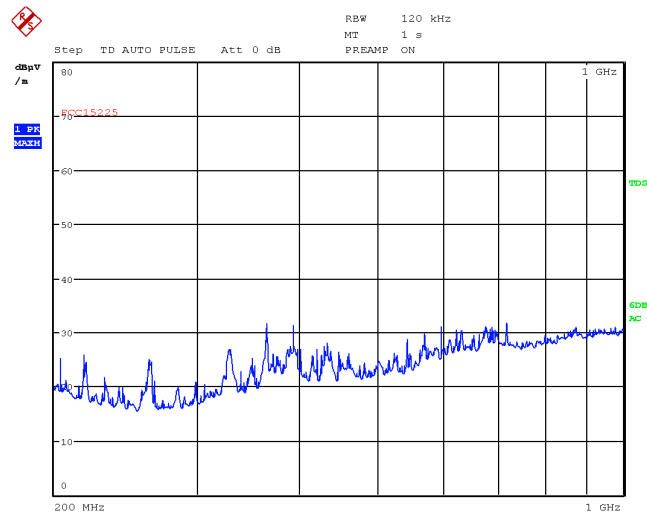
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TEST REPORT No: (5220)234-0059

Measurement Data

Test plot of (On mode, Horizontal): PASS



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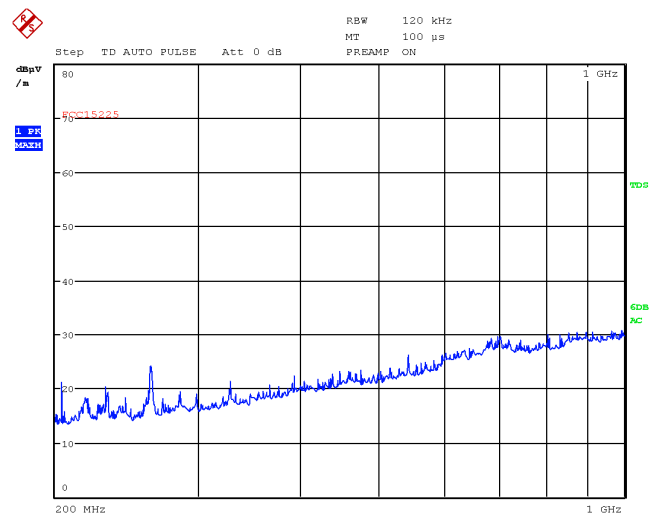
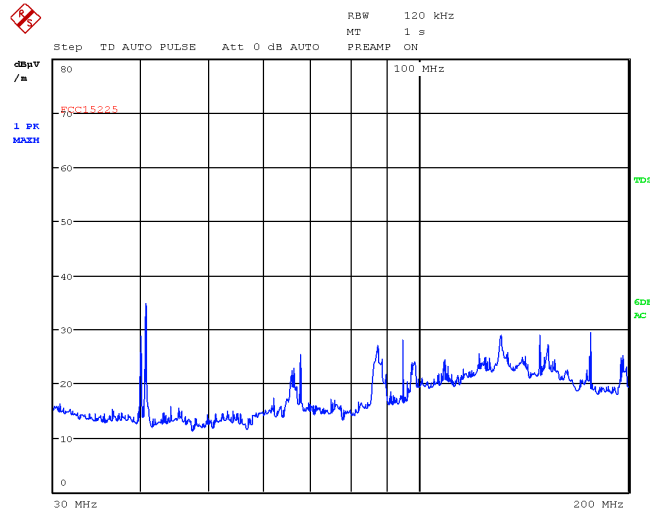
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TEST REPORT No: (5220)234-0059

Measurement Data

Test plot of (On mode, Vertical): PASS



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TEST REPORT No: (5220)234-0059

Measurement Data

Test Result of (Demo mode): **PASS**

Detection mode: **Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
131.16	H	12.1	36.1	43.5	-7.4
141.75	H	12.5	30.5	43.5	-13.0
152.93	H	11.9	35.9	43.5	-7.6
393.05	H	17.1	23.8	46	-22.2
525.17	H	19.1	20.0	46	-26.0
657.89	H	21.6	24.1	46	-21.9

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
88.32	V	9.5	21.2	43.5	-22.3
132.42	V	12.1	26.0	43.5	-17.5
153.00	V	13.0	24.6	43.5	-18.9
218.33	V	11.9	19.8	46	-26.2
262.13	V	12.7	23.2	46	-22.8
327.71	V	14.9	19.9	46	-26.1

Note: Field Strength = Receiver Reading + Antenna Factor + Cable Loss
Margin = Field Strength - Limit

Receiver setting: RBW = 120 kHz

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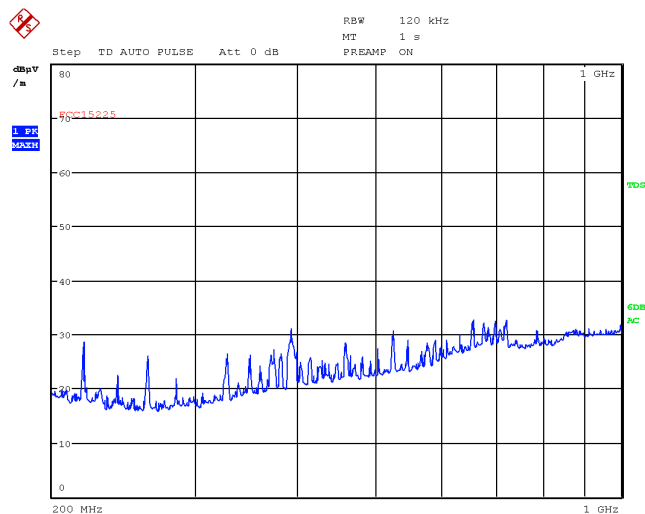
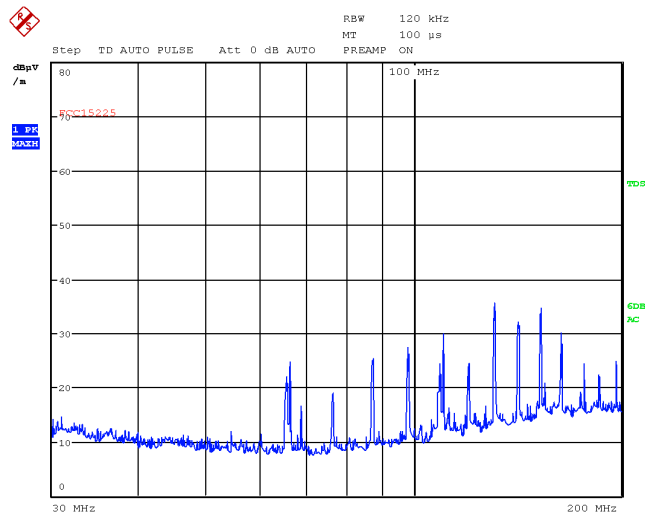
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TEST REPORT No: (5220)234-0059

Measurement Data

Test plot of (Demo mode, Horizontal): PASS



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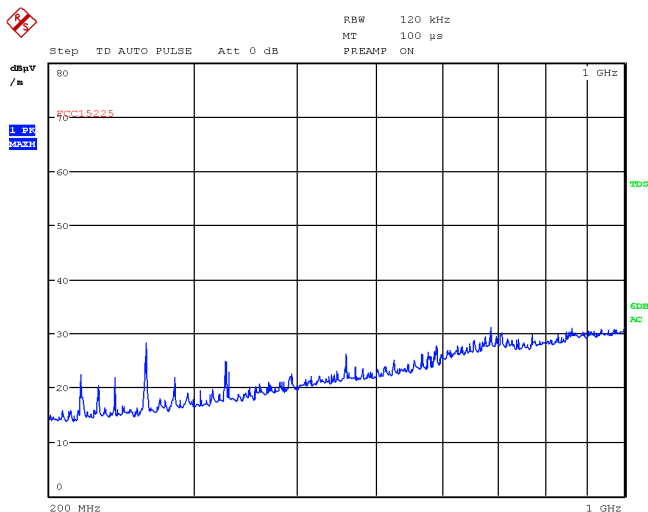
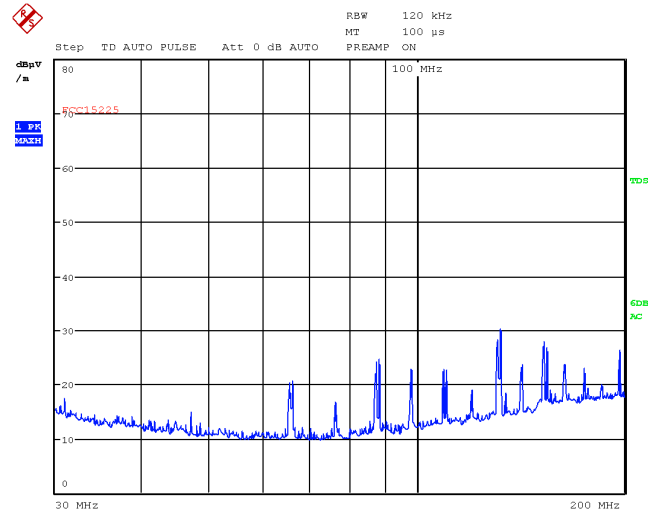
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TEST REPORT No: (5220)234-0059

Measurement Data

Test plot of (Demo mode, Vertical): PASS



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TEST REPORT No: (5220)234-0059

20 dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.225
Test Method: ANSI C63.10
Test Date(s): 2020-09-16
Temperature: 25.0 °C
Humidity: 53.0 %
Mode of Operation: Transmission mode
Tested Voltage: 9Vd.c. ("AA" size battery x 6)

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Limits for 20 dB Bandwidth of Fundamental Emission:

Frequency [MHz]	20 dB Bandwidth [Hz]	Limits [MHz]
13.563	23.441	within 13.553 – 13.567

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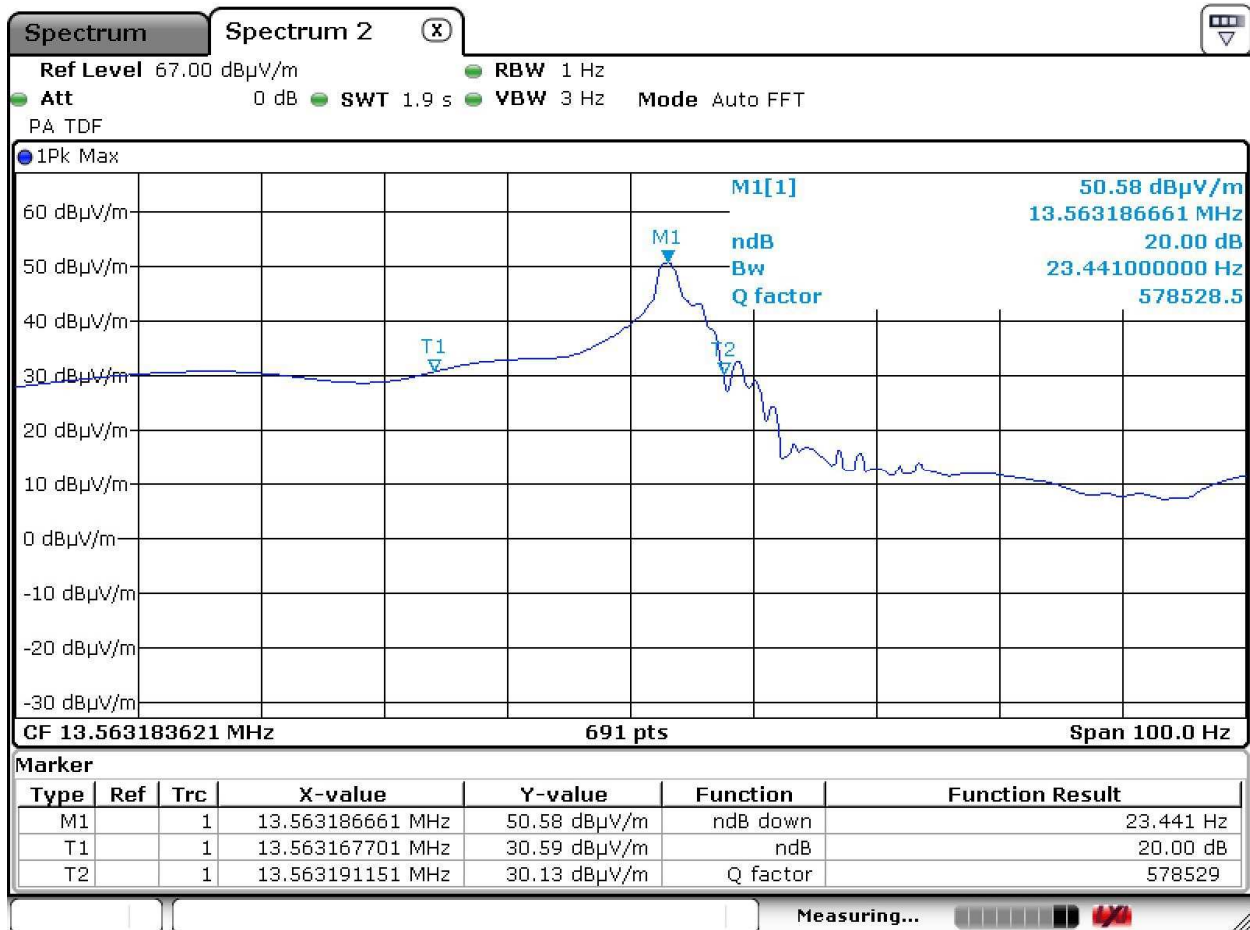
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TEST REPORT No: (5220)234-0059

Measurement Data:

Test Result of 20 dB Bandwidth of Fundamental Emission: PASS



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TEST REPORT No: (5220)234-0059

Frequency Drift

Test Requirement: FCC Part 15 Section 15.225
Test Method: ANSI C63.10
Test Date(s): 2020-09-16
Temperature: 22.0 °C
Humidity: 47.0 %
Mode of Operation: Transmission mode
Tested Voltage: 9Vd.c. ("AA" size battery x 6)

Test Setup:

The EUT was placed at a site with temperature control and supplied with power for extreme voltage testing. Antenna with suitable frequency range was used during the test.

The test was performed in accordance with ANSI C63.10.

Location: Anechoic Chamber, No. 2106-2107, 21/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Limit for Frequency Tolerance:

Maintained within +/- 0.01% of the operating frequency



TEST REPORT No: (5220)234-0059

Test Result of (Transmission mode): PASS

Test Condition		Nominal Transmit Frequency: 13.564MHz				
		Time				
		Start up	Two minutes after	Five minutes after	Ten minutes after	Frequency tolerance (%)
T _{nom} : 20°C	V _{nom} : 9.00V	13.56320	13.56320	13.56320	13.56320	N/A
T _{min} : -20°C	V _{nom} : 9.00V	13.56320	13.56320	13.56320	13.56320	0.00000
T: -10°C	V _{nom} : 9.00V	13.56320	13.56320	13.56320	13.56320	0.00000
T: 0°C	V _{nom} : 9.00V	13.56320	13.56320	13.56320	13.56320	0.00000
T: 10°C	V _{nom} : 9.00V	13.56320	13.56320	13.56320	13.56320	0.00000
T: 30°C	V _{nom} : 9.00V	13.56320	13.56320	13.56320	13.56320	0.00000
T: 40°C	V _{nom} : 9.00V	13.56320	13.56320	13.56320	13.56320	0.00000
T _{max} : 50°C	V _{nom} : 9.00V	13.56320	13.56320	13.56320	13.56320	0.00000

Remarks:-

N/A: Not Applicable or Not Available

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TEST REPORT No: (5220)234-0059

Photographs of EUT

Front View of the product



Rear View of the product



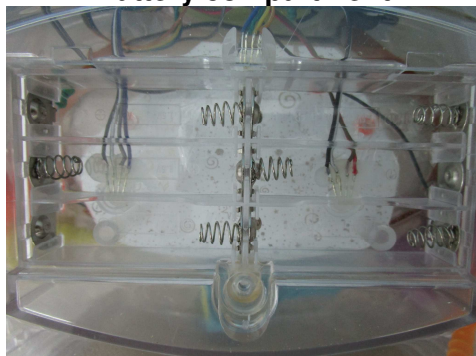
Top View of the product



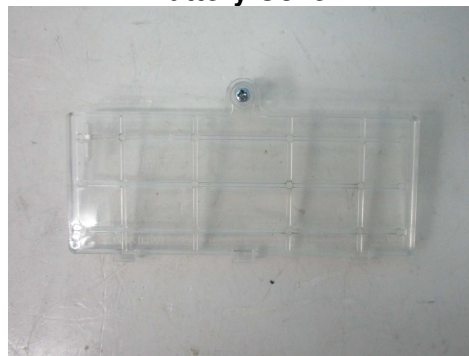
Bottom View of the product



Battery compartment



Battery Cover



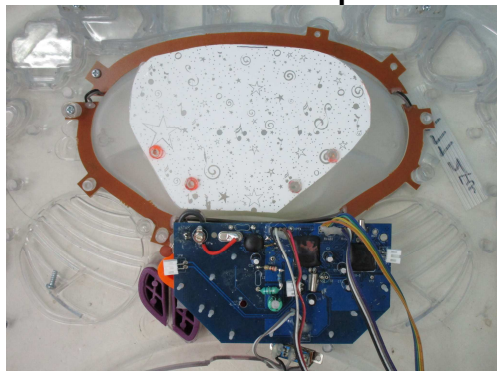
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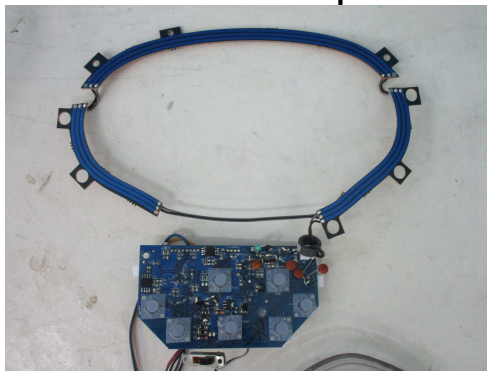
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Internal View of the product



Internal View of the product



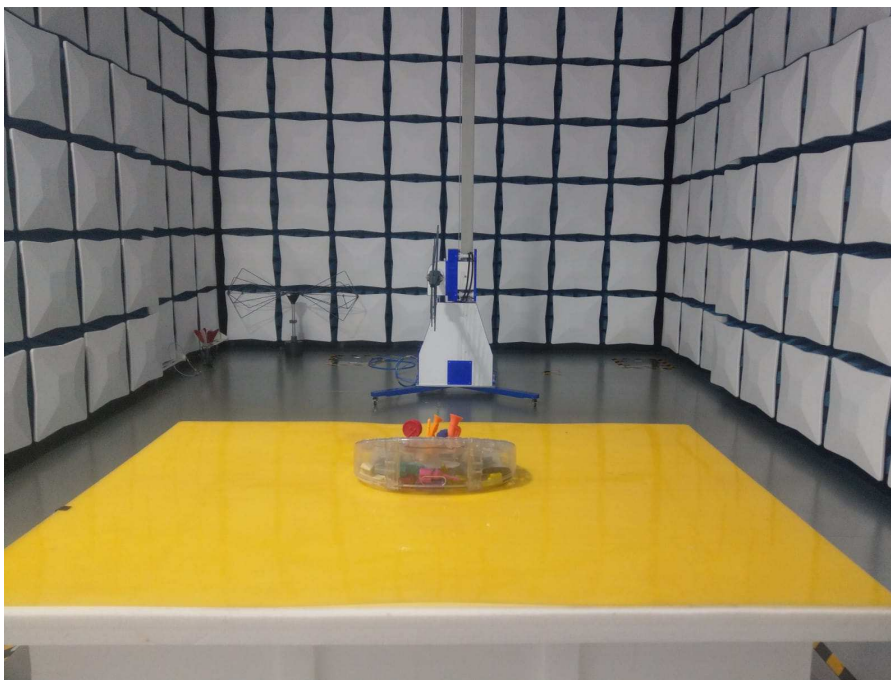
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Measurement of Radiated Emission Test Set Up



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