Test Report

Date : 2019-12-11
No. : HMD19120004

Applicant	:	Robby Gordon Entertainment/SST, Inc. 10615 Twin Lakes Pkwy Charlotte NC USA
Supplier / Manufacturer	:	Robby Gordon Entertainment/SST, Inc. 10615 Twin Lakes Pkwy Charlotte NC USA
Description of Sample(s)	:	Submitted sample(s) said to be Product: RC Car Brand Name: N/A Model No.: 144001 FCC ID: 2AVCB144001
Date Samples Received	:	2019-11-28
Date Tested	:	2019-12-10 to 2019-12-11
Investigation Requested	:	Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 and ANSI C63.10: 2013 for FCC Certification.
Conclusions	:	The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.
Remarks	:	---

CHEUNG Chi, Kenneth
Authorized Signatory

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

CONTENT:

	Cover	Page 1 of 25
	Content	Page 2 of 25
1.0	**General Details**	
1.1	Test Laboratory	Page 3 of 25
1.2	Equipment Under Test [EUT]	Page 3 of 25
1.3	Description of EUT operation	Page 3 of 25
1.4	Date of Order	Page 3 of 25
1.5	Submitted Sample(s)	Page 3 of 25
1.6	Test Duration	Page 3 of 25
1.7	Country of Origin	Page 3 of 25
2.0	**Technical Details**	
2.1	Investigations Requested	Page 4 of 25
2.2	Test Standards and Results Summary	Page 4 of 25
3.0	**Test Results**	
3.1	Emission	Page 5-20 of 25
Appendix A		
List of Measurement Equipment		Page 21 of 25
Appendix B		
Photograph(s) of Product		Page 22-25 of 25

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong
Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Equipment Under Test [EUT]

Description of Sample(s)

Product:	RC Car
Manufacturer:	Robby Gordon Entertainment/SST, Inc. 10615 Twin Lakes Pkwy Charlotte NC USA
Brand Name:	N/A
Model Number:	144001
Rating:	6Vd.c(Battery AA*4)

1.3 Description of EUT Operation

The Equipment Under Test (EUT) is a RC Car. It is a transceiver operating at 2407MHz~2478MHz and the RF signal was modulated by IC.

1.4 Date of Order

2019-11-28

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2019-12-10 to 2019-12-11

1.7 Country of Origin

China

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 Regulations and ANSI C63.10: 2013 for FCC Certification. The device was realized by test software.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.10: 2013	N/A	☒	☐	☐
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	☒	☐	☐
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2013	N/A	☐	☐	☒
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	☒	☐	☐

Note: N/A - Not Applicable

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

Ambient temperature 25°C Relative humidity 57%

Test Requirement:	FCC 47CFR 15.249 & FCC 47CFR 15.209
Test Method:	ANSI C63.10:2013
Test Date:	2019-12-10
Mode of Operation:	Tx mode

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic 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 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.

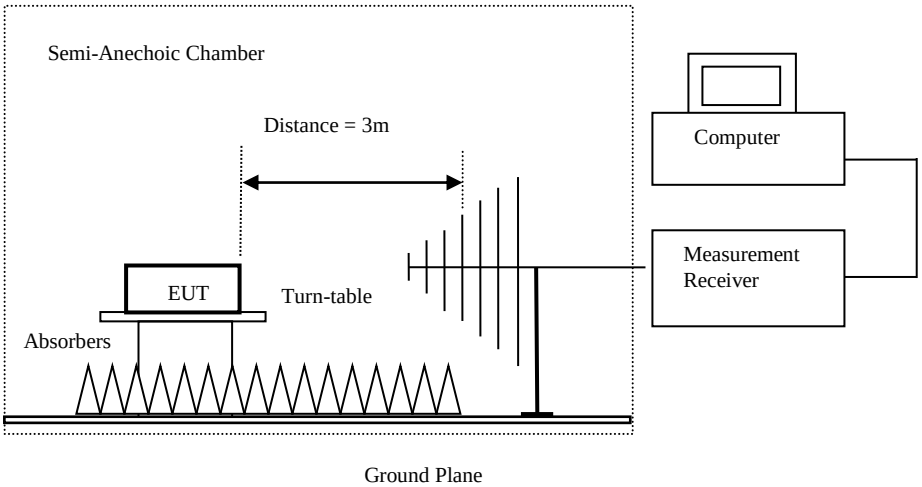
* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW:	10kHz
	VBW:	30kHz
	Sweep:	Auto
	Span:	Fully capture the emissions being measured
	Trace:	Max. hold
30MHz – 1GHz (QP)	RBW:	120kHz
	VBW:	120kHz
	Sweep:	Auto
	Span:	Fully capture the emissions being measured
	Trace:	Max. hold
Above 1GHz (Pk)	RBW:	1MHz
	VBW:	1MHz
	Sweep:	Auto
	Span:	Fully capture the emissions being measured
	Trace:	Max. hold
Above 1GHz (Av)	RBW:	1MHz
	VBW:	10Hz
	Sweep:	Auto
	Span:	Fully capture the emissions being measured
	Trace:	Max. hold

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Quasi-Peak]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Lowest Frequency Channel-2407 MHz): Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2407.00	61.4	36.8	98.2	80,816.5	500,000	Vertical
2407.00	57.0	36.4	93.4	46,935.3	500,000	Horizontal

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2407.00	45.2	36.8	82.0	12,560.3	50,000	Vertical
2407.00	42.4	36.4	78.8	8,709.6	50,000	Horizontal

Field Strength of Harmonics Emission Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
4814.0	14.7	41.5	56.2	648.6	5,000	Vertical
4814.0	13.0	42.4	55.4	590.9	5,000	Horizontal
7221.0	9.8	45.1	54.9	552.7	5,000	Vertical
7221.0	8.8	46.2	55.0	559.8	5,000	Horizontal
9628.0	7.2	48.0	55.2	578.1	5,000	Vertical
9628.0	6.4	48.8	55.2	574.1	5,000	Horizontal
12035.0	4.01	51.8	55.8	617.3	5,000	Vertical
12035.0	3.6	52.4	56.0	632.4	5,000	Horizontal

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Field Strength of Harmonics Emission Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
4814.0	0.8	41.5	42.3	130.8	500	Vertical
4814.0	-1.7	42.4	40.7	108.6	500	Horizontal
7221.0	-5.3	45.1	39.8	97.3	500	Vertical
7221.0	-5.7	46.2	40.5	105.7	500	Horizontal
9628.0	-8.7	48.0	39.3	92.6	500	Vertical
9628.0	-9.1	48.8	39.8	97.2	500	Horizontal
12035.0	-11.4	51.8	40.5	105.3	500	Vertical
12035.0	-12.3	52.4	40.1	101.5	500	Horizontal

Results of Tx mode (Middle Frequency Channel- 2442MHz): Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2442.00	61.1	36.8	97.9	78,433.2	500,000	Vertical
2442.00	57.2	36.4	93.6	47,973.3	500,000	Horizontal

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2442.00	45.6	36.8	82.4	13,137.1	50,000	Vertical
2442.00	42.5	36.4	78.9	8,820.6	50,000	Horizontal

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Field Strength of Harmonics Emission Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
4884.0	15.1	41.6	56.7	682.3	5,000	Vertical
4884.0	12.4	42.5	54.9	555.3	5,000	Horizontal
7326.0	1.9	45.2	47.1	227.2	5,000	Vertical
7326.0	8.9	46.3	55.2	574.8	5,000	Horizontal
9768.0	7.1	48.1	55.2	574.8	5,000	Vertical
9768.0	6.4	48.9	55.3	579.4	5,000	Horizontal
12210.0	3.7	51.6	55.3	582.8	5,000	Vertical
12210.0	3.5	52.5	56.0	631.0	5,000	Horizontal

Field Strength of Harmonics Emission Avarage Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
4884.0	-1.0	41.6	40.6	107.5	500	Vertical
4884.0	-2.8	42.5	39.7	97.1	500	Horizontal
7326.0	-5.1	45.2	40.1	100.9	500	Vertical
7326.0	-7.0	46.3	39.3	91.9	500	Horizontal
9768.0	-8.7	48.1	39.5	93.9	500	Vertical
9768.0	-8.1	48.9	40.8	109.3	500	Horizontal
12210.0	-11.1	51.6	40.5	106.2	500	Vertical
12210.0	-11.3	52.5	41.2	114.4	500	Horizontal

Results of Tx mode (Highest Frequency Channel – 2478MHz): Pass

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2478.00	61.5	36.8	98.3	82,224.3	500,000	Vertical
2478.00	58.0	36.4	94.4	52,662.3	500,000	Horizontal

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2478.00	46.0	36.8	82.8	13,819.7	50,000	Vertical
2478.00	42.7	36.4	79.1	8,964.0	50,000	Horizontal

Field Strength of Harmonics Emission Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
4956.0	15.4	41.4	56.8	687.9	5,000	Vertical
4956.0	12.5	42.7	55.2	576.8	5,000	Horizontal
7434.0	9.6	45.6	55.2	576.1	5,000	Vertical
7434.0	8.7	46.5	55.2	572.8	5,000	Horizontal
9912.0	7.3	48.6	55.9	623.0	5,000	Vertical
9912.0	6.1	49.7	55.8	618.0	5,000	Horizontal
12390.0	3.5	51.7	55.2	572.8	5,000	Vertical
12390.0	2.7	52.7	55.4	590.2	5,000	Horizontal

Field Strength of Harmonics Emission Avarage Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
4956.0	0.0	41.4	41.4	117.9	500	Vertical
4956.0	-2.8	42.7	39.9	99.0	500	Horizontal
7434.0	-6.4	45.6	39.3	91.7	500	Vertical
7434.0	-6.2	46.5	40.3	103.2	500	Horizontal
9912.0	-9.2	48.6	39.4	93.8	500	Vertical
9912.0	-9.6	49.7	40.1	100.9	500	Horizontal
12390.0	-11.4	51.7	40.3	103.9	500	Vertical
12390.0	-12.5	52.7	40.2	102.2	500	Horizontal

Remarks:
No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Calculated measurement uncertainty (9kHz-30MHz): 2.0dB
(30MHz -1GHz): 4.9dB
(1GHz -6GHz): 4.02dB
(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Radiated Emissions Measurement:
Limit：
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Result： RF Radiated Emissions (1GHz-26GHz) (Lowest)-GFSK

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBµV	Correction Factor dB/m	Field Strength dBµV/m	Limit @3m dBµV/m	Margin dBµV/m	E-Field Polarity
2400.0	13.38	36.8	50.18	74.0	23.8	Vertical + Horizontal*

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBµV	Correction Factor dB/m	Field Strength dBµV/m	Limit @3m dBµV/m	Margin dBµV/m	E-Field Polarity
The PK value is less than AV limit, AV value does not need to be tested.						

Result： RF Radiated Emissions (1GHz-26GHz) (Highest) -GFSK

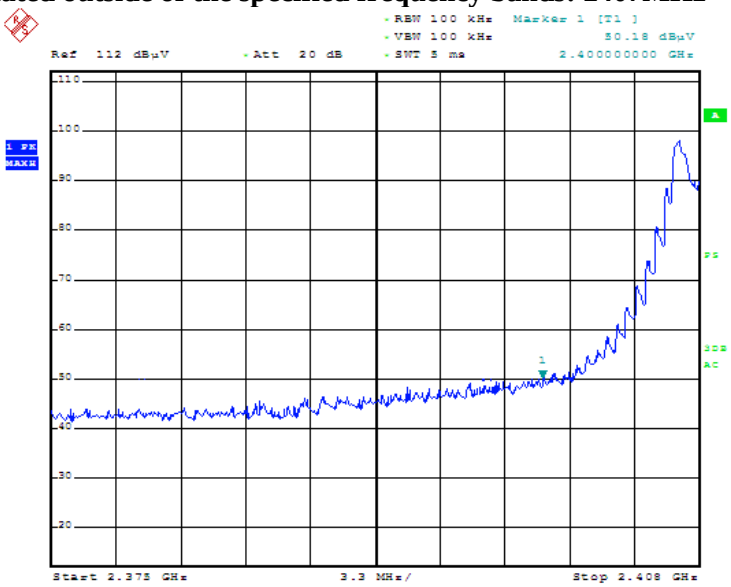
Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dBµV	Correction Factor dB/m	Field Strength dBµV/m	Limit @3m dBµV/m	Margin dBµV/m	E-Field Polarity
2,483.5	14.0	36.4	50.4	74.0	23.6	Vertical + Horizontal*

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dBµV	Correction Factor dB/m	Field Strength dBµV/m	Limit @3m dBµV/m	Margin dBµV/m	E-Field Polarity
The PK value is less than AV limit, AV value does not need to be tested.						

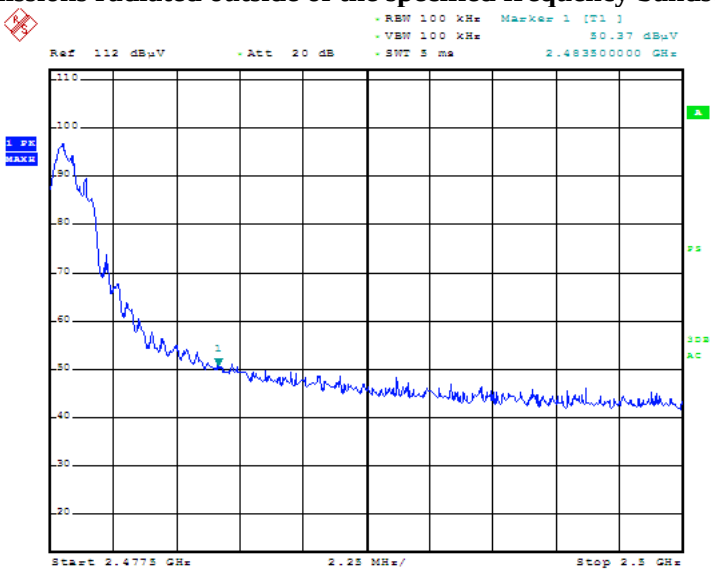
-*： The test results are accumulated in both vertical and horizontal directions.

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Emissions radiated outside of the specified frequency bands: 2407MHz



Emissions radiated outside of the specified frequency bands: 2478MHz



This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.

For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

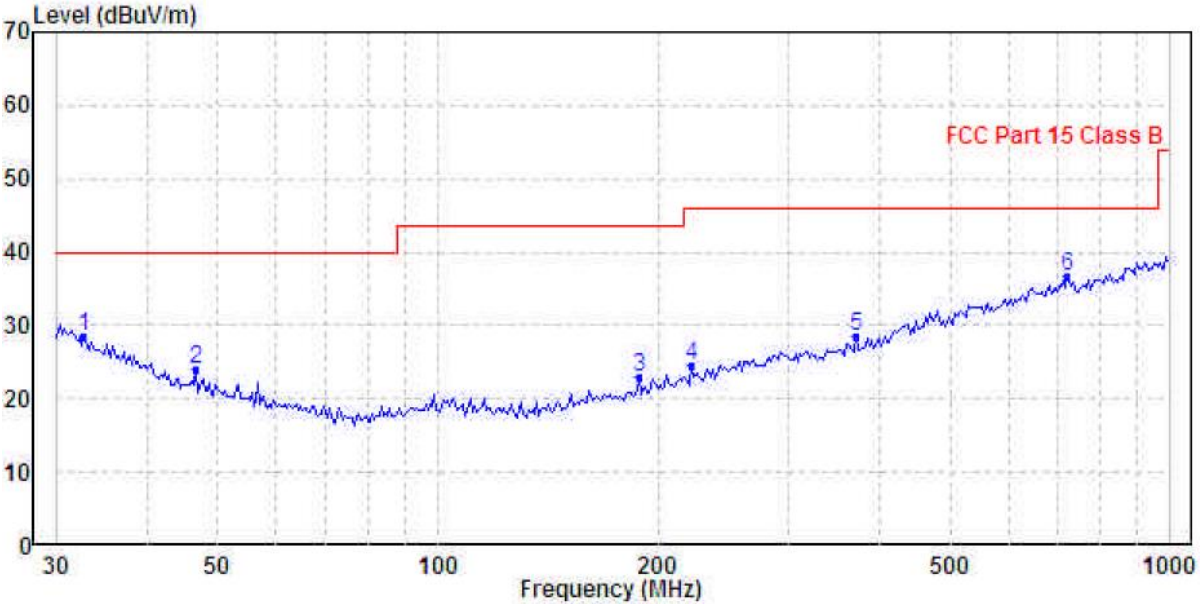
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of TX mode (9kHz – 30MHz): PASS
Emissions detected are more than 20 dB below the FCC Limits

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Results of TX mode (30MHz – 1GHz)(2407MHz worst case): PASS
Horizontal



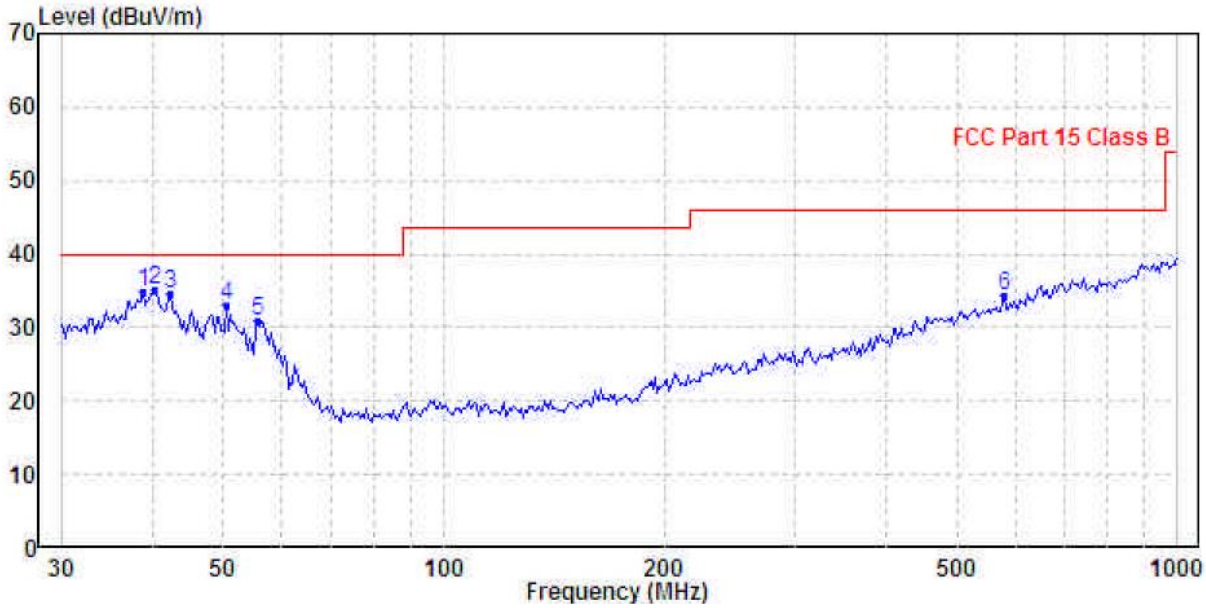
Ambient Temperature: 25C
Relative Humidity : 50%

	Freq	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	32.864	28.64	40.00	-11.36	QP	Horizontal
2	46.666	24.15	40.00	-15.85	QP	Horizontal
3	188.413	23.03	43.50	-20.47	QP	Horizontal
4	221.392	24.54	46.00	-21.46	QP	Horizontal
5	372.005	28.40	46.00	-17.60	QP	Horizontal
6	724.261	36.73	46.00	-9.27	QP	Horizontal

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Results of TX mode (30MHz – 1GHz) (2407MHz worst case): PASS

Vertical



Ambient Temperature: 25C
Relative Humidity : 50%

	Freq	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	38.888	34.88	40.00	-5.12	QP	Vertical
2	40.276	35.17	40.00	-4.83	QP	Vertical
3	42.302	34.72	40.00	-5.28	QP	Vertical
4	50.409	33.13	40.00	-6.87	QP	Vertical
5	55.609	30.88	40.00	-9.12	QP	Vertical
6	578.670	34.21	46.00	-11.79	QP	Vertical

Remarks:
Calculated measurement uncertainty (30MHz – 1GHz): 4.9dB
Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

3.1.2 Antenna Requirement

Ambient temperature 25°C Relative humidity 57%

Test Requirements: § 15.203

Test Specification:

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.

Test Results:

This is copper pipe antenna. There is no external antenna, the antenna gain =2dBi. User is unable to remove or changed the Antenna.

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

3.1.3 20dB Bandwidth of Fundamental Emission

Ambient temperature 25°C Relative humidity 57%

Test Requirement:	FCC 47 CFR 15.249
Test Method:	ANSI C63.10:2013
Test Date:	2019-12-11
Mode of Operation:	Tx mode

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.

Test Setup:

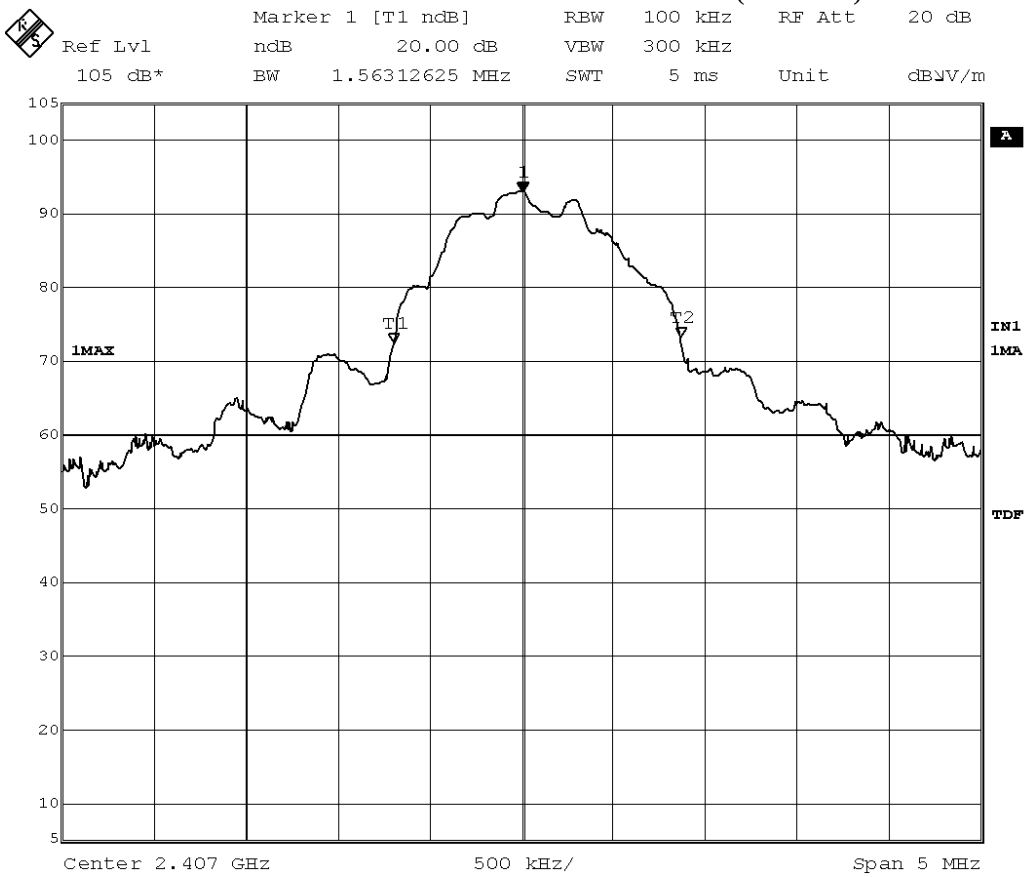
As Test Setup of clause 3.1.1 in this test report.

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Limits for 20dB Bandwidth of Fundamental Emission (Low Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2407.0	1.56

20dB Bandwidth of Fundamental Emission (2407MHz)

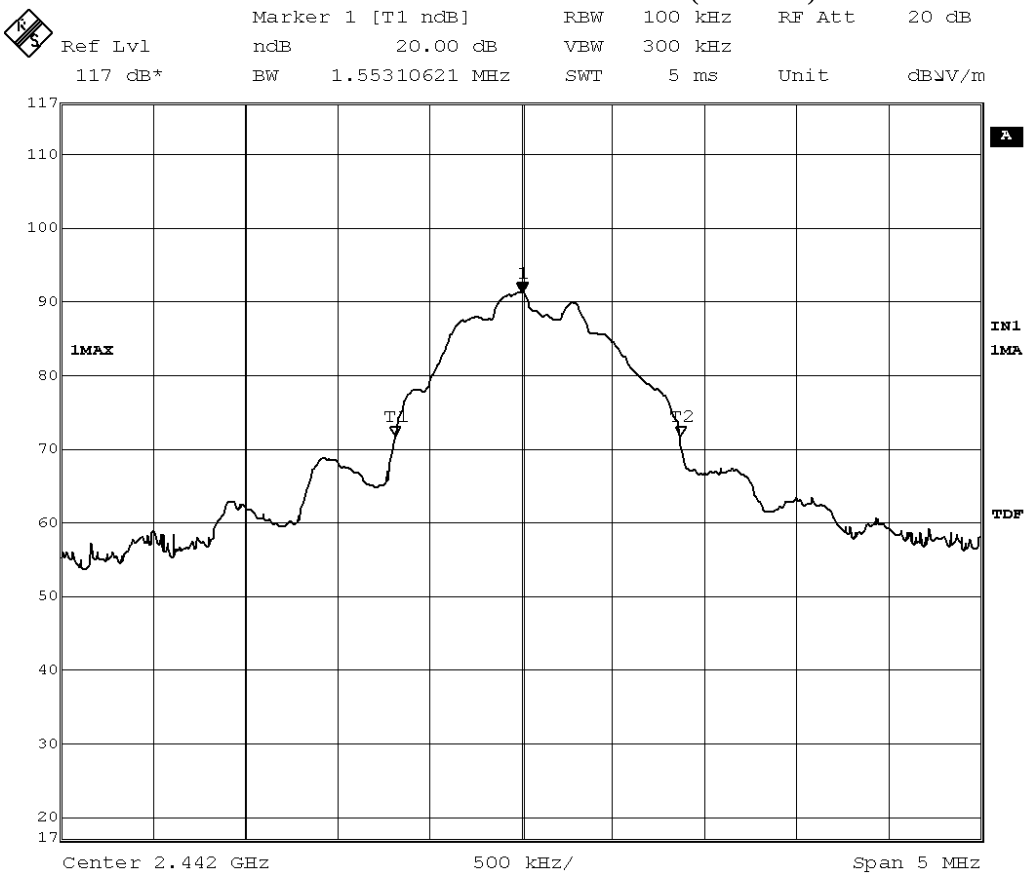


This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Limits for 20dB Bandwidth of Fundamental Emission (Middle Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2442.0	1.55

20dB Bandwidth of Fundamental Emission (2442MHz)

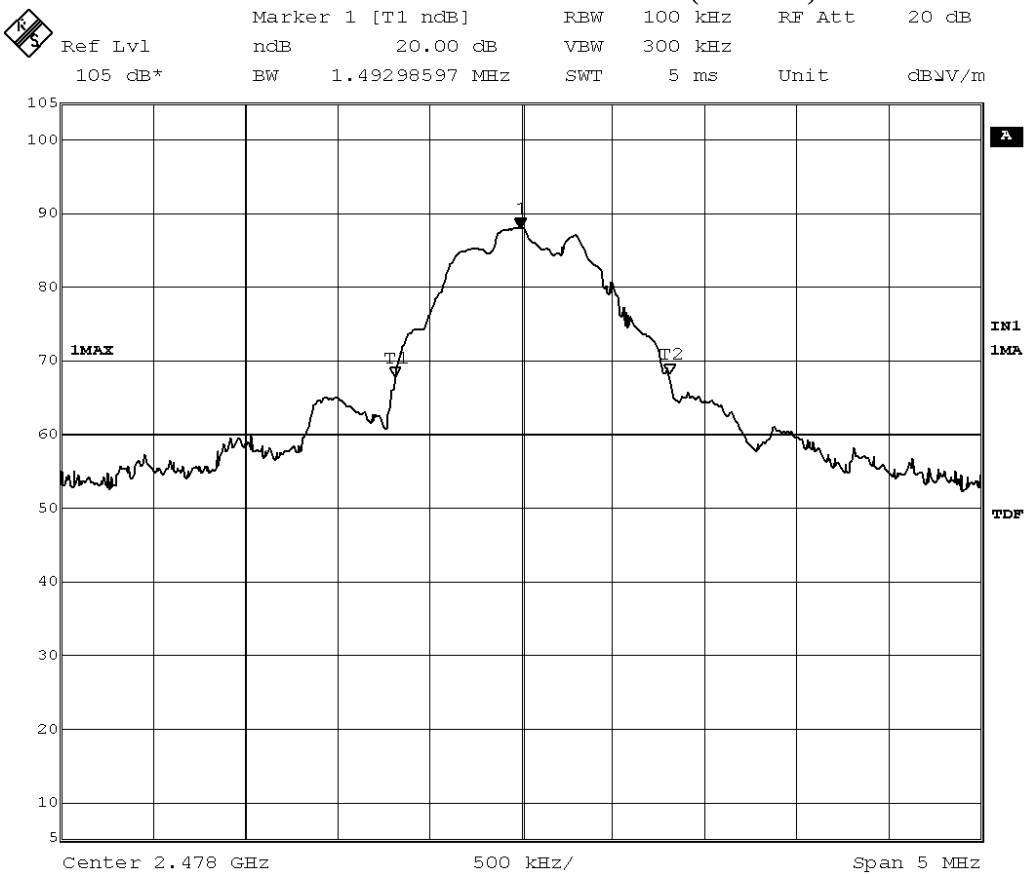


This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Limits for 20dB Bandwidth of Fundamental Emission (High Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2478.0	1.49

20dB Bandwidth of Fundamental Emission (2478MHz)



This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2018/04/20	2020/04/20
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM355	Biconilog Antenna	ETS-Lindgren	3143B	00094856	2018/05/24	2020/05/24
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2018/06/01	2020/06/01
EM276	BROADBAND HORN ANTENNA	A-INFOMW	JXTXLB-10180-SF	J2031090903007	2018/04/27	2020/04/27
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2018/05/13	2020/05/13
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2018/05/13	2020/05/13
EM302	PRECISION OMNIDIRECTIONAL DIPOLE (1 – 6GHZ)	SEIBERSDORF LABORATORIES	POD 16	161806/L	2018/05/11	2020/05/11
EM303	PRECISION OMNIDIRECTIONAL DIPOLE (6 – 18GHZ)	SEIBERSDORF LABORATORIES	POD 618	6181908/L	2018/05/11	2020/05/11
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2018/04/16	2020/04/16
EM045	POWER METER	ROHDE & SCHWARZ	NRVD	843246/028	2018/06/01	2020/06/01

Remarks:-

N/A Not Applicable or Not Available

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Appendix B

Photographs of EUT

View of the product

View of the product

View of the product

View of the product

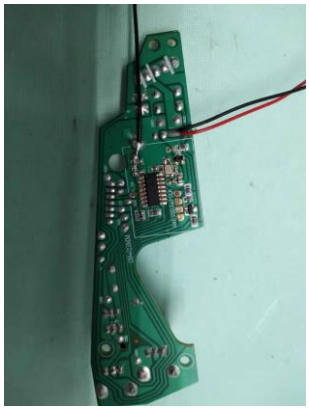
Inner Circuit Bottom View

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

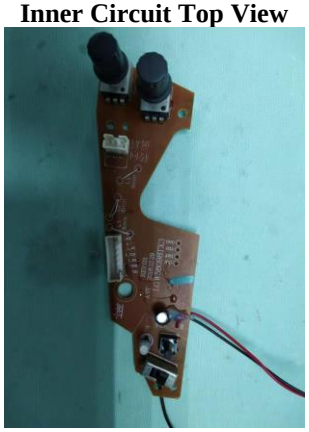
Photographs of EUT

Inner Circuit Top View

Inner Circuit Bottom View



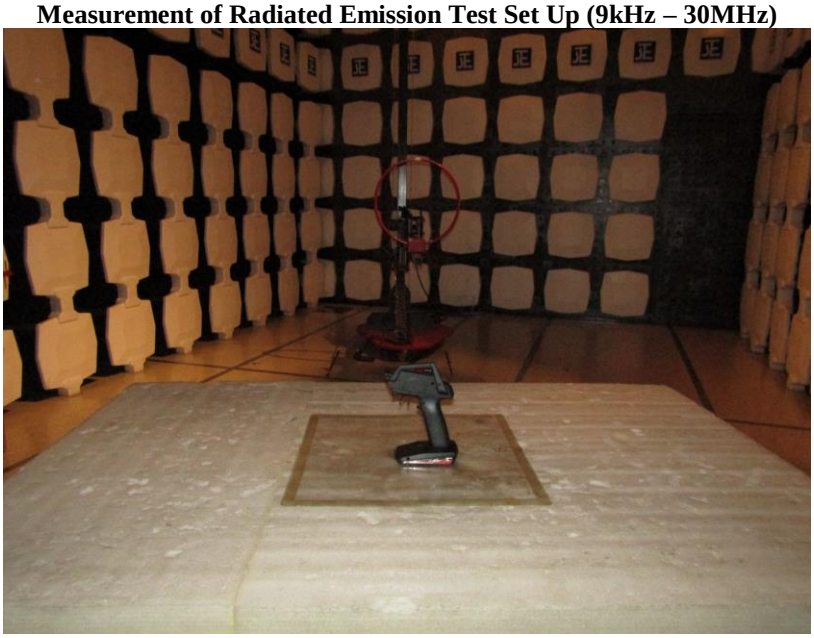
Inner Circuit Top View



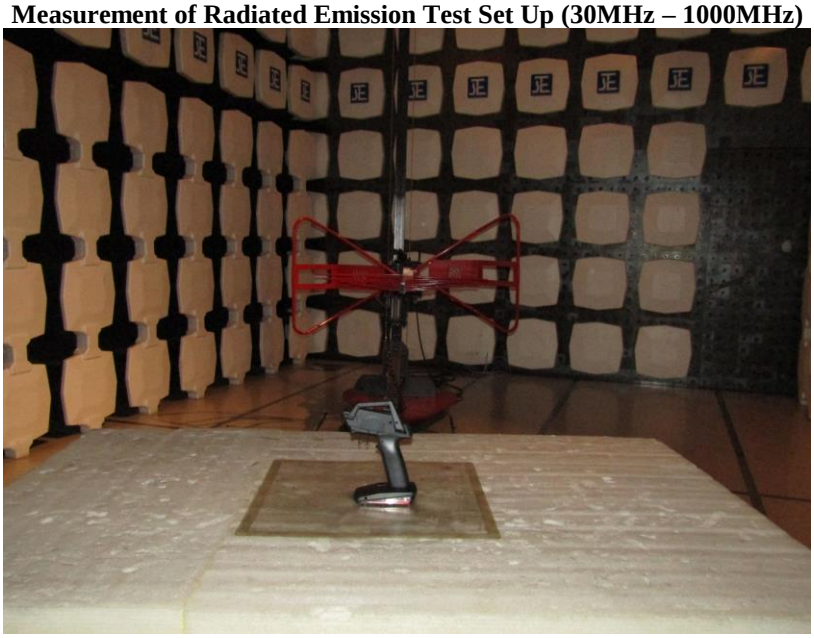
This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Photographs of EUT

Measurement of Radiated Emission Test Set Up (9kHz – 30MHz)



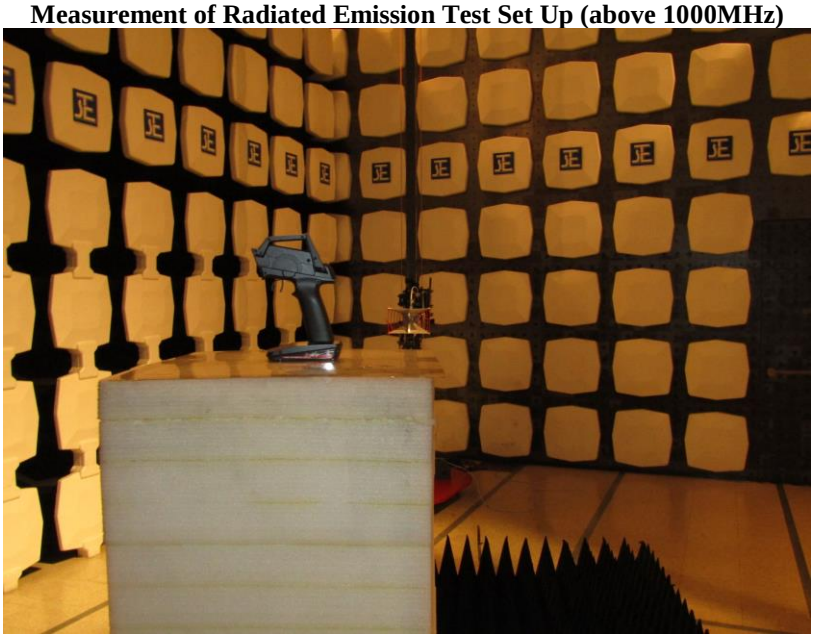
Measurement of Radiated Emission Test Set Up (30MHz – 1000MHz)



This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Photographs of EUT

Measurement of Radiated Emission Test Set Up (above 1000MHz)



******* End of Test Report *******

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to “Conditions of Issuance of Test Reports” section or Website.

Conditions of Issuance of Test Reports

1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by the Company as a result of this application for testing service (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. Subject to clause 3, the Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.

4. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.

6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.

7. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

9. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

12. Issuance records of the Report are available on the internet at www.stc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.