
FCC Test Report

Report No.: AGC16967250403FR01

FCC ID : 2AJGI-LH-C072S

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : RC TOYS

BRAND NAME : N/A

MODEL NAME : HYDRO HAVOC RC CAR/850051553549, LH-C072S,
LH-C072, LH-C072-3, LH-C072S-3

APPLICANT : Shantou Chenghai Lihuang Plastic Toys Co., Ltd

DATE OF ISSUE : Jun. 04, 2025

STANDARD(S) : FCC Part 15 Subpart C §15.249

REPORT VERSION : V1.0

Attestation Of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 04, 2025	Valid	Initial Release

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1. General Information

Applicant	Shantou Chenghai Lihuang Plastic Toys Co., Ltd
Address	Xinyuan Industrial Zone, Shengzhou Village, Lianshang Town, Chenghai District, Shantou 515800, China
Manufacturer	Shantou Chenghai Lihuang Plastic Toys Co., Ltd
Address	Xinyuan Industrial Zone, Shengzhou Village, Lianshang Town, Chenghai District, Shantou 515800, China
Factory	N/A
Address	N/A
Product Designation	RC TOYS
Brand Name	N/A
Test Model	HYDRO HAVOC RC CAR/850051553549
Series Model(s)	LH-C072S, LH-C072, LH-C072-3, LH-C072S-3
Difference Description	All the same except for the model name and color.
Date of receipt of test item	Apr. 30, 2025
Date of Test	Apr. 30, 2025 to Jun. 04, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-NTX-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By

Thea Huang

Thea Huang
(Project Engineer)

Jun. 04, 2025

Reviewed By

Bibo Zhang

Bibo Zhang
(Reviewer)

Jun. 04, 2025

Approved By

Angela Li

Angela Li
(Authorized Officer)

Jun. 04, 2025

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2. Product Information

2.1 Product Technical Description

Equipment Specification	Low Power Short Range Equipment
Frequency Band	2400MHz-2483.5MHz
Operation Frequency Range	2407MHz-2477MHz
Modulation Type	GFSK
Number of channels	71 Channels
Field Strength of Fundamental	88.14dBμV/m (Peak)
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	Wire Antenna
Antenna Gain	0dBi
Power Supply	DC 3.0V by battery

2.2 Test Frequency List

Channel No.	Frequency (GHz)
01	2407
02	2408
--	--
36	2442
--	--
70	2476
71	2477

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2AJGI-LH-C072S**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

2.5 Antenna Requirement

Standard Requirement
15.203 requirement: 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, 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.
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 0dBi.

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3. Test Environment

3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 3.0V by battery

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$
Uncertainty of Dwell Time	$U_c = \pm 2 \%$

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3.5 List of Equipment Use

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-01-14	2026-01-13
☐	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2025-01-14	2026-01-13
☐	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2025-01-14	2026-01-13
☒	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08
☐	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2024-05-23	2025-05-22
☐	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2025-05-21	2026-05-20
☒	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	100096	2025-01-14	2026-01-13
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A119	2.4GHz Filter	SongYi	N/A	N/A	2024-05-23	2025-05-22
☒	AGC-EM-A119	2.4GHz Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08

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● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☐	AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23
☐	AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☐	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2024-02-01	2026-01-31
☐	AGC-EM-E023	AMN	R&S	ESH2-Z5	100086	2024-05-28	2025-05-27
☐	AGC-EM-E023	AMN	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☐	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☒	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
☐	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

☐ Test Accessories Come From The Laboratory

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	--	--	--	--	--

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	--	---	--	--	--

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203	Antenna Equipment	Pass
2	§15.249(a)	Field Strength of Fundamental	Pass
3	§15.209&§15.249(d)	Radiated Emission& Band Edge	Pass
4	§15.205	Restricted Bands of Operation	Pass
5	§15.215	20dB Bandwidth	Pass
6	§15.207	AC Power Line Conducted Emission	Pass/N/A (See Note 2)

Note:

1. N/A means not applicable
2. This device is not AC powered and does not require this test.

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5. Description of Test Modes

Summary Table of Test Cases	
Test Item	Equipment type / Modulation
	Short Distance and Low Power Consumption/ GFSK
Radiated & Conducted Test Cases	Mode 1: Custom 2.4GHz TX CH01_2407MHz_GFSK(Battery powered)
	Mode 2: Custom 2.4GHz TX CH36_2442MHz_GFSK(Battery powered)
	Mode 3: Custom 2.4GHz TX CH71_2477MHz_GFSK(Battery powered)
AC Conducted Emission	N/A

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. The battery is full-charged during the test.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
4. The fixed-frequency transmission of the prototype is debugged through the buttons or software declared by the manufacturer.
5. The manufacturer of RF external cable claims that the cable loss is 0.5dB, and the cable loss and attenuator have been compensated into the Corrections Configuration of measuring equipment.

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6. Duty Cycle Measurement

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

GFSK_2407MHz:

Type of Pules	Width of Pules (ms)	Quantity of Pules (pcs)	Transmission Time (ms)	Total Time (Ton) (ms)
Ton1	0.18	16	2.880	3.132
Ton2	0.252	1	0.252	

Test Period (Tp) (ms)	Total Time (Ton) (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
4.928	3.132	63.56	1.97

GFSK_2442MHz:

Type of Pules	Width of Pules (ms)	Quantity of Pules (pcs)	Transmission Time (ms)	Total Time (Ton) (ms)
Ton1	0.168	17	2.856	3.108
Ton2	0.252	1	0.252	

Test Period (Tp) (ms)	Total Time (Ton) (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
4.928	3.108	63.07	2.00

GFSK_2477MHz

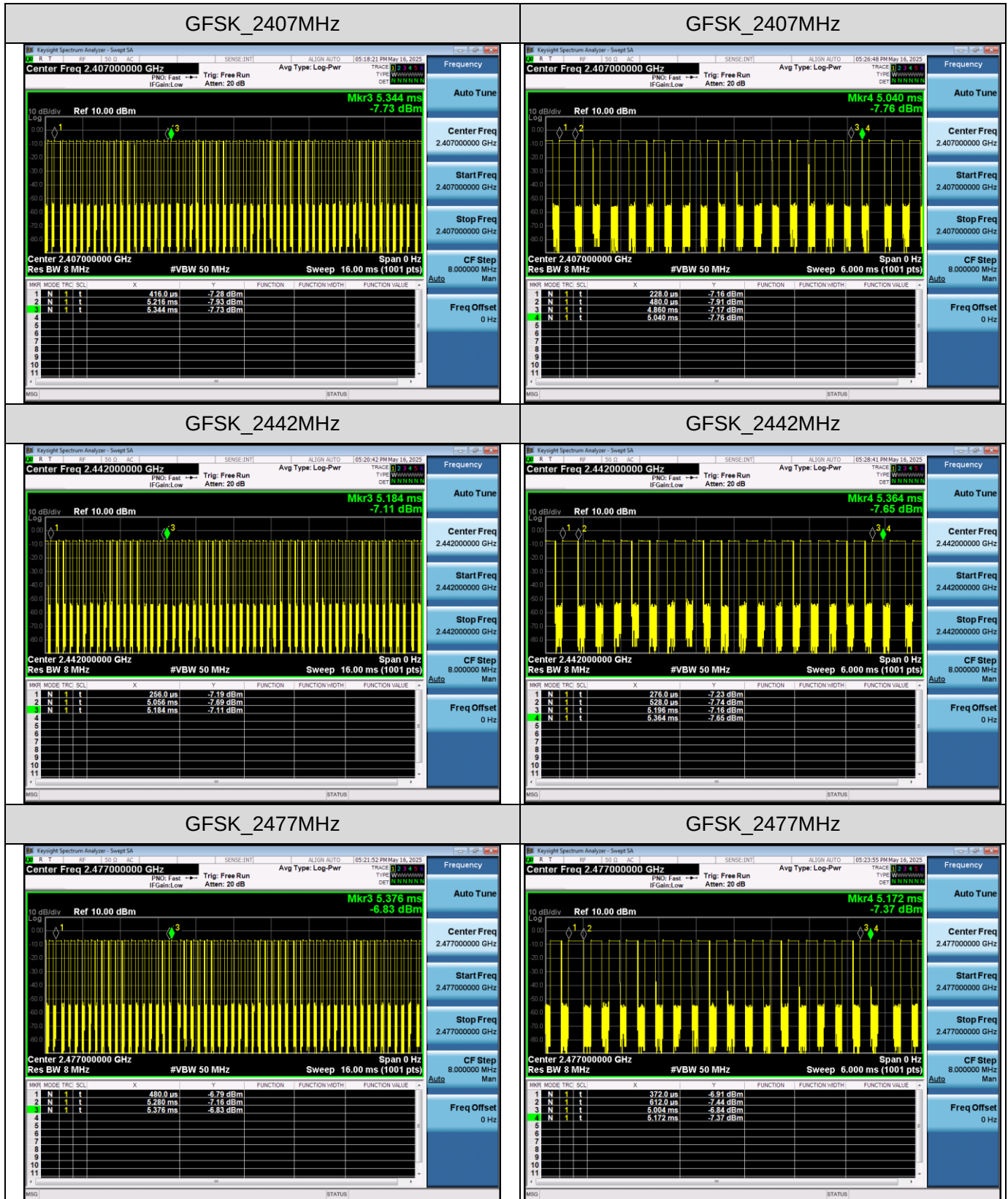
Type of Pules	Width of Pules (ms)	Quantity of Pules (pcs)	Transmission Time (ms)	Total Time (Ton) (ms)
Ton1	0.168	16	2.688	2.928
Ton2	0.240	1	0.240	

Test Period (Tp) (ms)	Total Time (Ton) (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
4.896	2.928	59.80	2.23

Remark:

- Duty Cycle factor = $10 * \log (1/ \text{Duty cycle})$
- Total Time (Ton)= Ton1 (Transmission Time)+ Ton2 (Transmission Time)
Duty Cycle=Total Time (Ton)/ Test Period (Tp)

The test plots as follows:



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7. 20dB Bandwidth Measurement

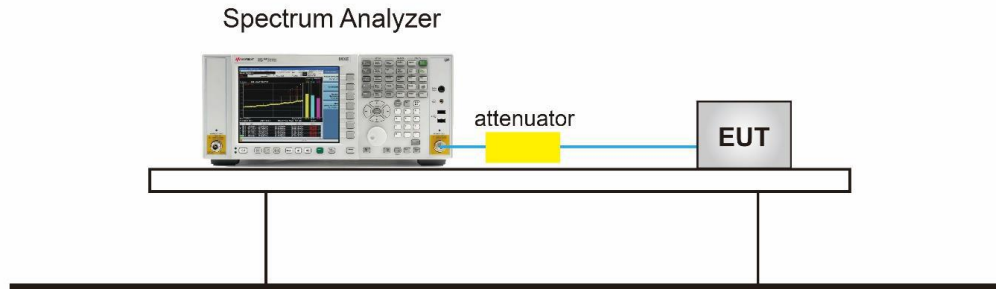
7.1 Provisions Applicable

N/A

7.2 Measurement Procedure

1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 30 kHz. Set the Video bandwidth (VBW) = 100 kHz. In order to make an accurate measurement.
4. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * \text{RBW}$.
5. Measure and record the results in the test report.
6. Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)

7.3 Measurement Setup (Block Diagram of Configuration)

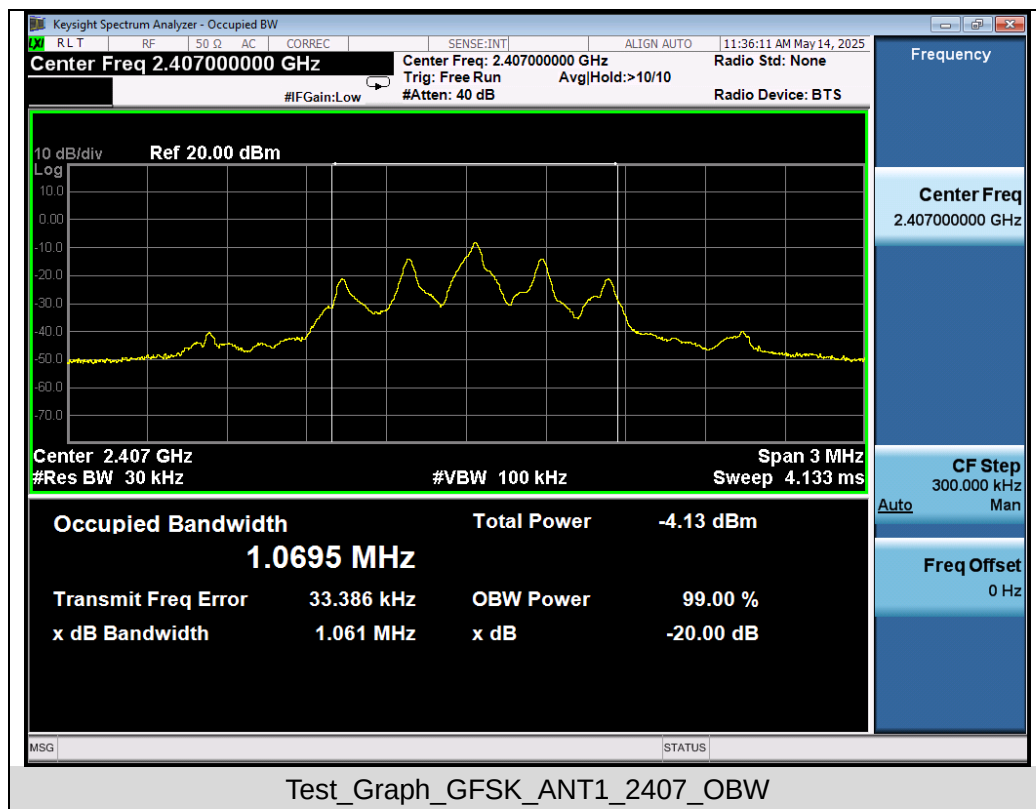


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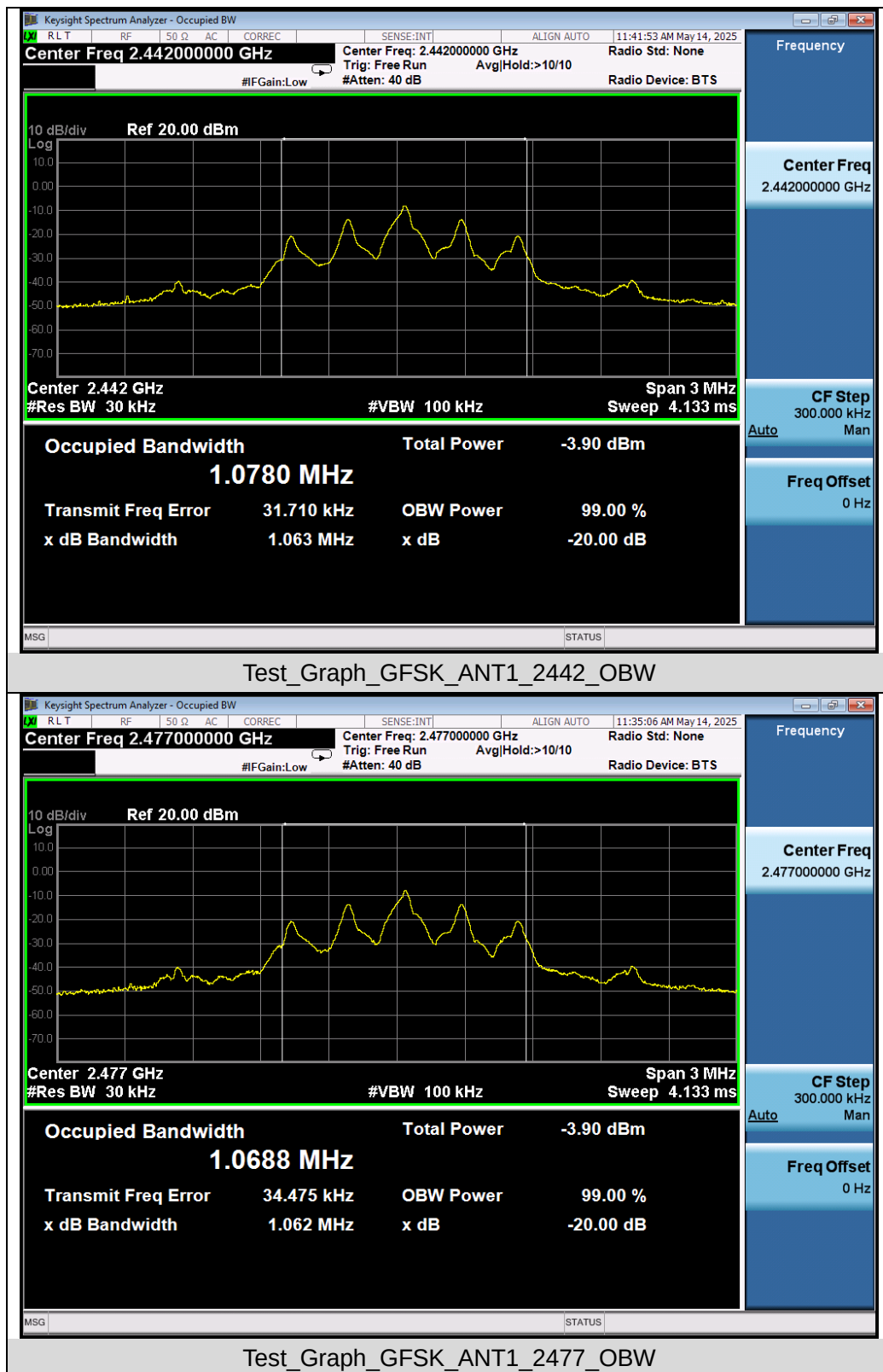
7.4 Measurement Results

Test Data of Occupied Bandwidth and -20dB Bandwidth					
Test Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
GFSK	2407	1.0695	1.061	N/A	Pass
	2442	1.0780	1.063	N/A	Pass
	2477	1.0688	1.062	N/A	Pass

Test Graphs of Occupied Bandwidth and -20 Bandwidth



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8. Field Strength of Fundamental and Radiated Spurious Emission

8.1 Measurement Limit

15.249 Limit in the below table has to be followed:

Frequency Range	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

15.209 Limit in the below table has to be followed:

Frequency Range (MHz)	Distance Meters	Field Strengths Limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark:

- 1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$.
- 2) The smaller limit shall apply at the cross point between two frequency bands.
- 3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

8.2 Measurement Procedure

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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- The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

- The following is the test setup of Field Strength of Fundamental:
- Peak detection: RBW is greater than the main frequency OBW, VBW=50MHz / Sweep=AUTO
 - Average detection: RBW is greater than the main frequency OBW, VBW=50MHz / Sweep=AUTO

- The following is the test setup of Band Edge:

The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

- Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - Peak detection: RBW=1MHz, VBW=3MHz / Sweep=AUTO
 - Average detection: RBW=1MHz; VBW=1/T / Sweep=AUTO (Duty cycle is less than 98%)
 - Average detection: RBW=1MHz; VBW=3M / Sweep=AUTO
 - Other procedures refer to clause 7.2.

● **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

● **Peak Measurements above 1GHz**

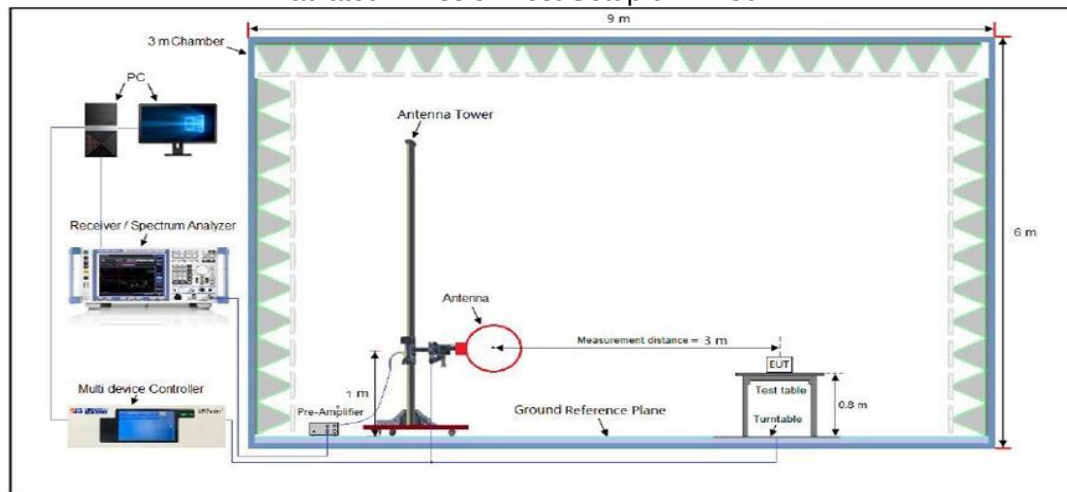
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

● **Average Measurements above 1GHz (Method VB)**

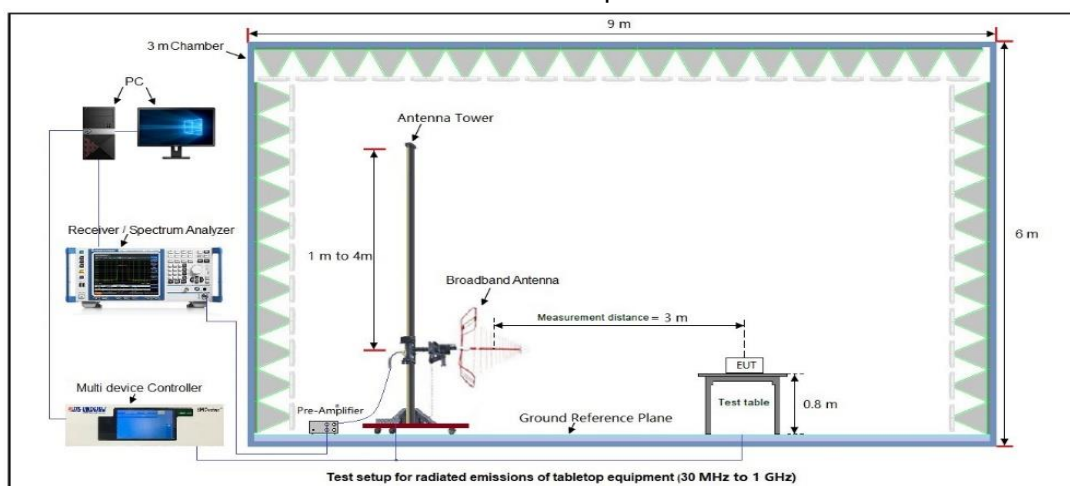
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW setting requirements are as follows:
4. If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
5. If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
6. Detector = Peak
7. Sweep time = auto
8. Trace mode = max hold
8. Trace was allowed to stabilize

8.3 Measurement Setup (Block Diagram of Configuration)

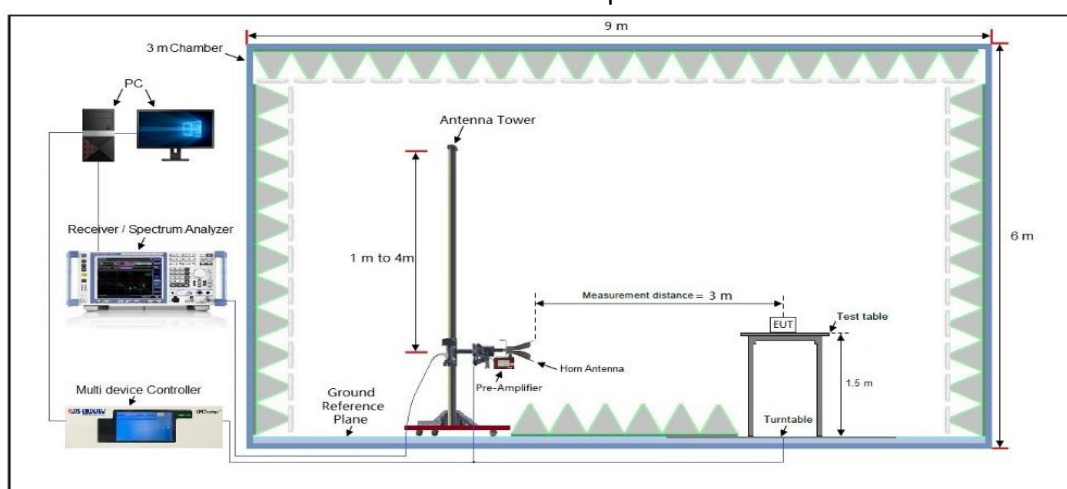
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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8.4 Measurement Result

Field Strength of Fundamental

EUT Name		RC TOYS		Model Name		HYDRO HAVOC RC CAR/850051553549	
Temperature		25°C		Relative Humidity		55.4%	
Pressure		960hPa		Test Voltage		DC 3.0V by battery	
Test Mode		Mode 1		Antenna Polarity		Horizontal/ Vertical	
Peak Value							
Frequency (MHz)	Measured Level@3m (dBµV/m)		Correction Factor dB/m	Field Strength (dBµV/m)	Limit @3m (dBµV/m)		Polarity
2407	97.62		-10.06	87.56	114.00		Horizontal
2407	95.83		-10.06	85.77	114.00		Vertical
2442	95.62		-10.21	85.41	114.00		Horizontal
2442	93.86		-10.21	83.65	114.00		Vertical
2477	98.73		-10.59	88.14	114.00		Horizontal
2477	95.11		-10.59	84.52	114.00		Vertical
Average Value							
Frequency (MHz)	Measured Level@3m (dBµV/m)		Correction Factor dB/m	Field Strength (dBµV/m)	Limit @3m (dBµV/m)		Polarity
2407	94.27		-10.06	84.21	94.00		Horizontal
2407	92.36		-10.06	82.30	94.00		Vertical
2442	96.43		-10.21	86.22	94.00		Horizontal
2442	92.68		-10.21	82.47	94.00		Vertical
2477	96.15		-10.59	85.56	94.00		Horizontal
2477	92.51		-10.59	81.92	94.00		Vertical

RESULT: Pass

Note: Corr. Factor= Antenna Factor (dB/m) + Cable Loss (dB) – Pre-amplifier.

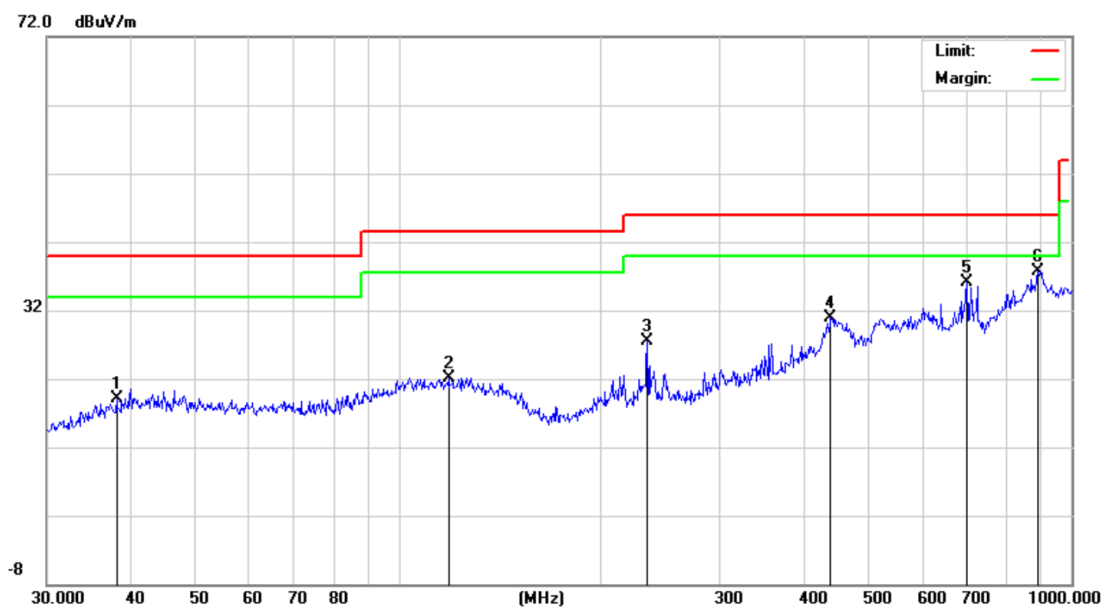
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Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20dB below the permissible value need not be reported.

Radiated Emission Test Results at 30MHz-1GHz

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	21.8°C	Relative Humidity	53.3%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

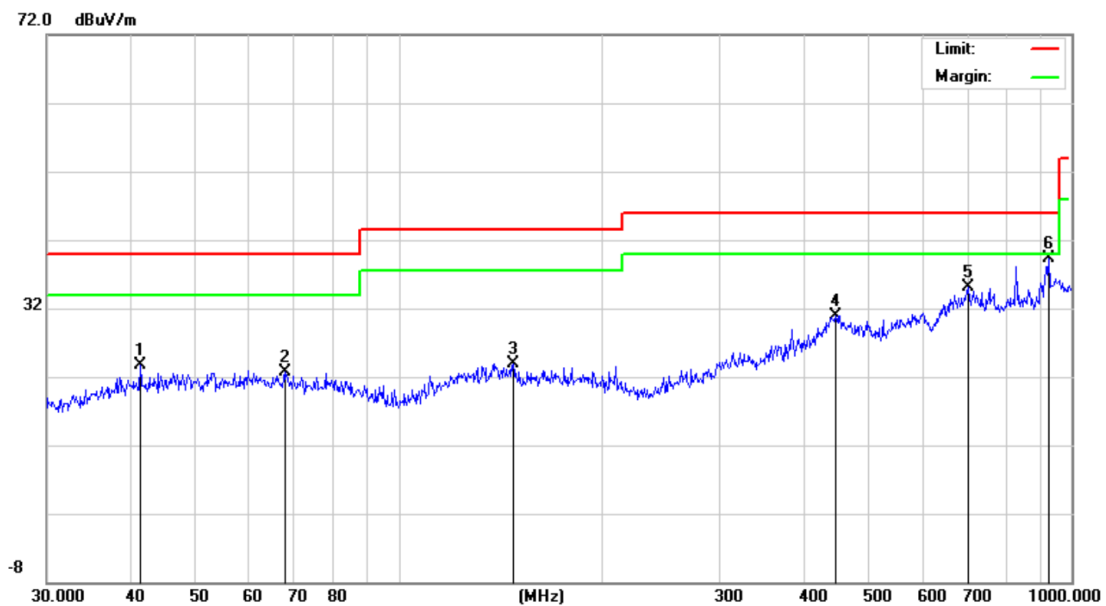


Final Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.0783	19.05	13.07	40.00	20.95	100	196	Horizontal
2	118.6014	22.20	16.39	43.50	21.3	100	235	Horizontal
3	234.1684	27.54	15.11	46.00	18.46	100	78	Horizontal
4	438.6554	30.94	24.81	46.00	15.06	100	145	Horizontal
5	699.3046	36.06	24.12	46.00	9.94	100	216	Horizontal
6	890.7278	37.70	30.64	46.00	8.3	100	121	Horizontal

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Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	21.8°C	Relative Humidity	53.3%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical



Final Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.2765	23.71	16.91	40.00	16.29	100	95	Vertical
2	67.6751	22.74	17.02	40.00	17.26	100	127	Vertical
3	147.9214	23.99	18.20	43.50	19.51	100	214	Vertical
4	446.4141	30.93	25.81	46.00	15.07	100	216	Vertical
5	701.7610	35.13	28.16	46.00	10.87	100	123	Vertical
6	925.7563	39.30	29.08	46.00	6.7	100	152	Vertical

RESULT: Pass

Note: 1. Factor=Antenna Factor + Cable loss, Margin= Limit-Level.

2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

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Radiated Emissions Test Results for Above 1GHz

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	21.8°C	Relative Humidity	53.3%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4814.000	47.52	0.08	47.60	74	-26.40	peak
4814.000	38.69	0.08	38.77	54	-15.23	AVG
7221.000	42.45	2.21	44.66	74	-29.34	peak
7221.000	31.88	2.21	34.09	54	-19.91	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	21.8°C	Relative Humidity	53.3%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4814.000	48.45	0.08	48.53	74	-25.47	peak
4814.000	37.26	0.08	37.34	54	-16.66	AVG
7221.000	42.74	2.21	44.95	74	-29.05	peak
7221.000	33.81	2.21	36.02	54	-17.98	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	21.8°C	Relative Humidity	53.3%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4884.000	46.32	0.08	46.40	74	-27.60	peak
4884.000	37.85	0.08	37.93	54	-16.07	AVG
7326.000	42.57	2.21	44.78	74	-29.22	peak
7326.000	31.63	2.21	33.84	54	-20.16	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	21.8°C	Relative Humidity	53.3%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4884.000	46.96	0.08	47.04	74	-26.96	peak
4884.000	38.27	0.08	38.35	54	-15.65	AVG
7326.000	43.64	2.21	45.85	74	-28.15	peak
7326.000	32.45	2.21	34.66	54	-19.34	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	21.8°C	Relative Humidity	53.3%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4954.000	48.56	0.08	48.64	74	-25.36	peak
4954.000	38.25	0.08	38.33	54	-15.67	AVG
7431.000	41.47	2.21	43.68	74	-30.32	peak
7431.000	33.23	2.21	35.44	54	-18.56	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	21.8°C	Relative Humidity	53.3%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4954.000	48.25	0.08	48.33	74	-25.67	peak
4954.000	38.84	0.08	38.92	54	-15.08	AVG
7431.000	41.76	2.21	43.97	74	-30.03	peak
7431.000	33.92	2.21	36.13	54	-17.87	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: Pass

Note:

- The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin = Emission Level - Limit.
- The "Factor" value can be calculated automatically by software of measurement system.

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Band Edge Emission Test Results for Restricted Bands

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	22.6C	Relative Humidity	56.8%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

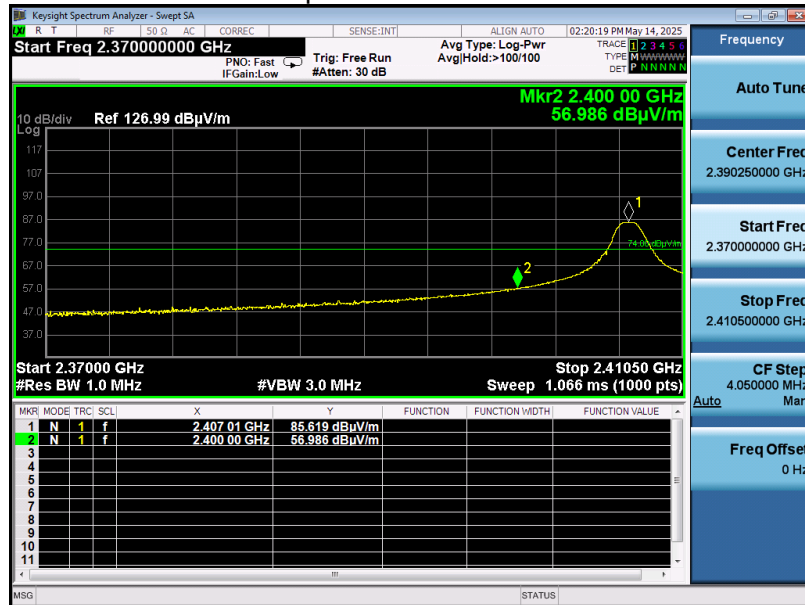
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Band Edge Emission Test Results for Restricted Bands

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	22.6C	Relative Humidity	56.8%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

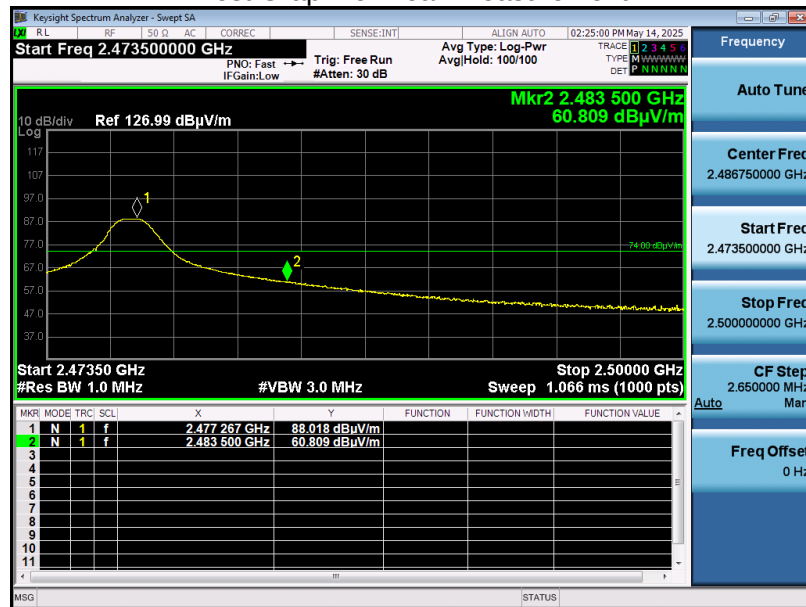
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Band Edge Emission Test Results for Restricted Bands

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	22.6C	Relative Humidity	56.8%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

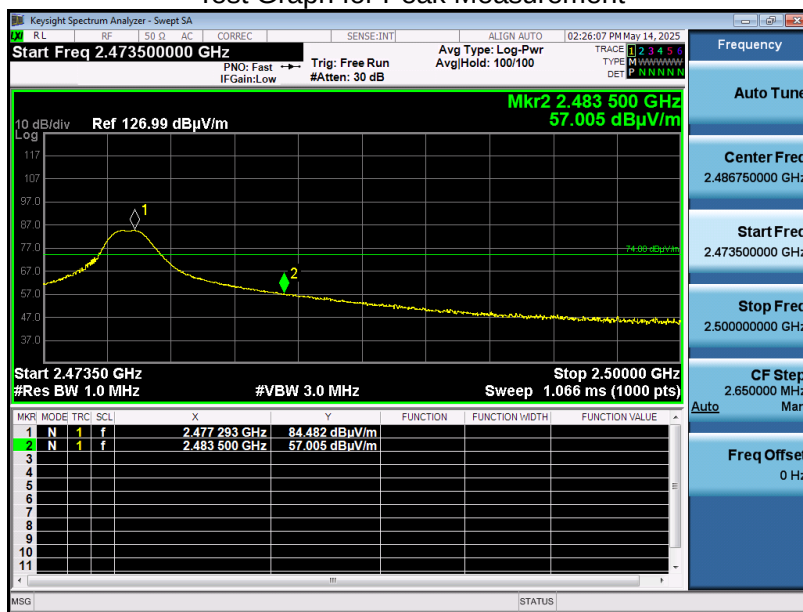
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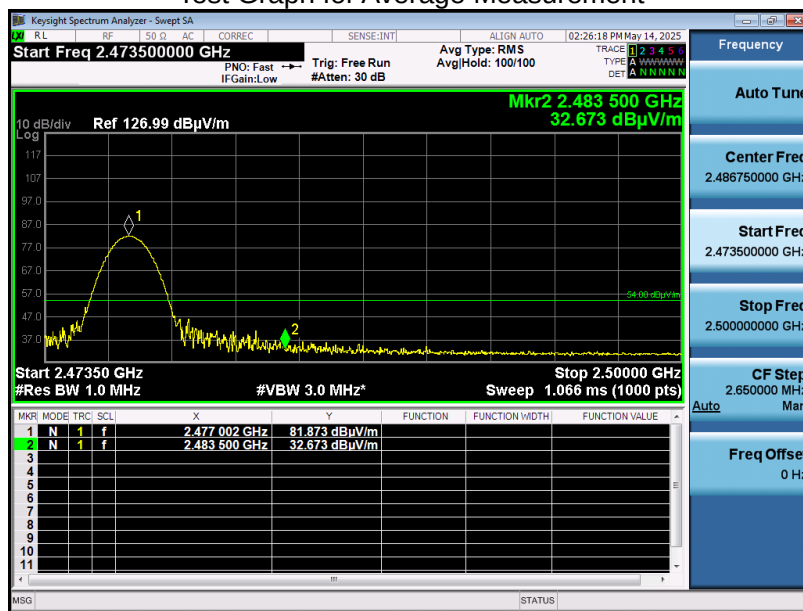
Band Edge Emission Test Results for Restricted Bands

EUT Name	RC TOYS	Model Name	HYDRO HAVOC RC CAR/850051553549
Temperature	22.6C	Relative Humidity	56.8%
Pressure	960hPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
3. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.

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9. AC Power Line Conducted Emission

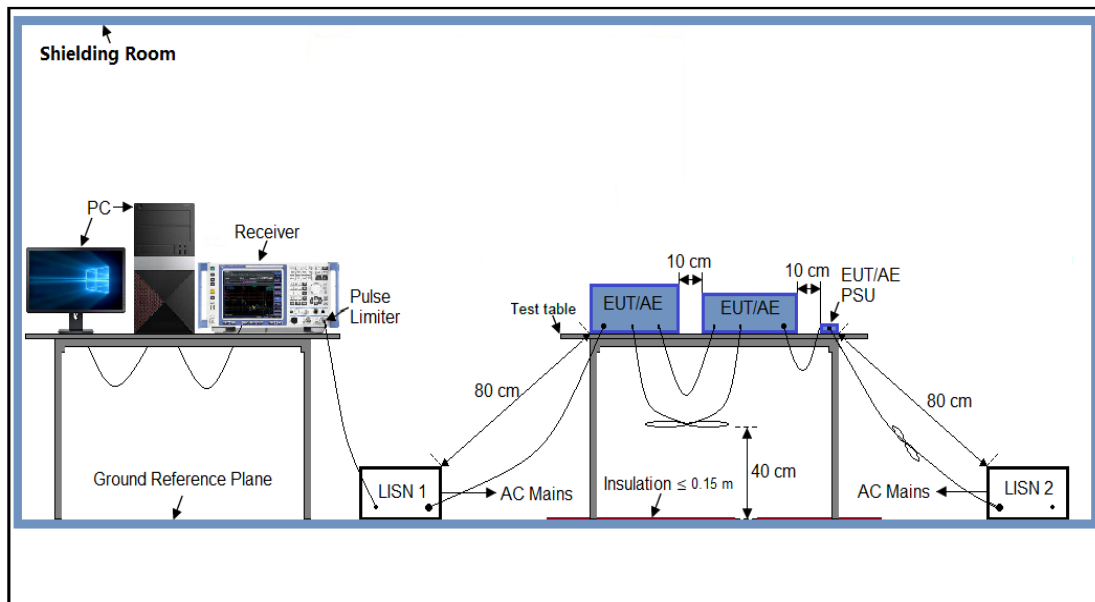
9.1 Measurement Limit

Frequency	Maximum RF Line Voltage	
	Q.P. (dBμV)	Average (dBμV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

9.2 Measurement Setup (Block Diagram of Configuration)



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9.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 4.5V power from battery.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

9.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.
4. A conducted emission is calculated by the following equation:
 - Measurement Level (dB μ V) = Receiver reading (dB μ V) + Transd (dB)
 - Transd (dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
 - Margin= Limit-Level

9.5 Measurement Result

N/A

Note: This device is not AC powered and does not require this test.

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16967250403AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC16967250403AP03

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3. 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.
4. In the event of the improper use of 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.
5. Samples 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.
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8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six 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 retention period. Under no circumstances shall we be liable for damage 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.

-----End of Report-----

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