

Test Report

No.: AJT231227008E-1

Applicant Name : GUANGDONG HENGDI TECHNOLOGY CORP., LTD.
Applicant Address : BUILDING C, JINHUI INDUSTRIAL BUILDING, SOUTH OF YUTING ROAD, EAST OF TAIAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA
Manufacturer : GUANGDONG HENGDI TECHNOLOGY CORP., LTD.
Manufacturer Address : BUILDING C, JINHUI INDUSTRIAL BUILDING, SOUTH OF YUTING ROAD, EAST OF TAIAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : R/C TOYS
Model No. : ODY-01SI
Additional Model : ODY-03SI, 2320, 1303, FX632, 2403, 2202, 2205, 2205D, 2209, 2209H, 2301, 2303, 2305, 2306, 2308, 2310, 2313, 2314, K22, K24-3, K24-4, K24-5, K24-6, K24-9
Sample Received Date : 27 Dec, 2023
Testing Completed Date : 08 Jan, 2024

Tests conducted: For compliance with application, refer to attached page(s) for details.

Assess standard used:	Conclusion
FCC Part 15, Subpart C, Section 15.249 & ANSI C63,10-2013	PASS

Tested by: Glory Reviewed by: Fly Liang Approved by: Cardo Jeng
Position: Technical Supervisor
Date: 2024-01-30



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Tel: 86-754-85860999 Fax: 86-754-86984098 Website: www.ajtesting.com Email: info@ajtesting.com

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1 Test Standards

The tests were performed according to following standards:
FCC Part 15, Subpart C, Section 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz
ANSI C63,10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

2 Summary

2.1 General Remarks

Date of receipt of test sample	27 Dec, 2023
Testing commenced on	27 Dec, 2023 ---- 08 Jan, 2024
Testing concluded on	08 Jan, 2024

2.2 Final Assessment

Test Content:	Assessment
The RF requirements pertaining to the technical standards and tested operation modes are	Fulfilled
The equipment under test	Fulfilled the RF requirements

3 Equipment Under Test

3.1 Short description of the Equipment Under Test (EUT)

EUT Name	R/C TOYS
Model No.	ODY-01SI
FCC ID	2AWZK-2320
Number of Tested Samples	1
Power Supply Voltage	DC: 4.5V(AAA*3)
Operating Mode	TX Mode
Operation Frequency	2416-2475MHz
Number of Channel	60
Modulation	GFSK
Antenna Type	Transparent antenna
Antenna Gain	0.5dBi
NOTE: 1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer.	

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3.2 EUT Configuration

(The CDF filled by the applicant can be viewed at the test laboratory.)

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

Not Applicable



3.3 Description of Test Modes

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on Y axis for radiated emission. The EUT was tested under the following mode.

EUT Configure Mode	Applicable to				Description
	RE < 1G	RE ≥ 1G	PLC	BW	
A	√	√	N/A	√	DC 4.5V(AAA*3)

Where RE<1G: Radiated Emission below 1GHz RE ≥ 1G: Radiated Emission above 1GHz
 PLC: Power Line Conducted Emission BW: 20dB bandwidth

Following channel(s) was (were) selected for the test as listed below.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2416	18	2433	35	2450	52	2467
2	2417	19	2434	36	2451	53	2468
3	2418	20	2435	37	2452	54	2469
4	2419	21	2436	38	2453	55	2470
5	2420	22	2437	39	2454	56	2471
6	2421	23	2438	40	2455	57	2472
7	2422	24	2439	41	2456	58	2473
8	2423	25	2440	42	2457	59	2474
9	2424	26	2441	43	2458	60	2475
10	2425	27	2442	44	2459		
11	2426	28	2443	45	2460		
12	2427	29	2444	46	2461		
13	2428	30	2445	47	2462		
14	2429	31	2446	48	2463		
15	2430	32	2447	49	2464		
16	2431	33	2448	50	2465		
17	2432	34	2449	51	2466		

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Channel List

Channel	Frequency (MHz)
The lowest channel	2416
The middle channel	2445
The highest channel	2475

Note: The more detailed channel, please refer to the product specifications

4 Test Environment

4.1 Address of the test Laboratory

Test Laboratory:	AJT Testing Services Limited
Test Site:	1-2/F., NO.1, WENHUA SOUTH ROAD, CHENGHUA INDUSTRIAL ZONE, CHENGHAI DISTRICT, SHANTOU, GUANGDONG, CHINA
Tel:	86-754-85860999
Fax:	86-754-86984098

4.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:	
Temperature	15~35°C
Humidity	30~75%

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4.3 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. Furthermore, component and process variability of devices are similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Measurement Uncertainty (Standard: ETSI TR 100 028)	
Conducted Emission (CE)	±2.14dB
Radiated Emission below 1GHz	±4.44dB
Radiated Emission above 1GHz	±5.26dB
Occupied bandwidth	55.4kHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.4 Test Types and Results

Standard: FCC PART 15, SUBPART C (SECTION 15.249)		
Standard section	Test Type	Result
§15.209 & §15.249(a)	Radiated Emission (RE)	PASS
§15.215(c)	20dB Bandwidth	PASS
§15.207(a)	Conducted Emission (CE)	N/A
§15.203	Antenna Requirement	PASS
§15.205	Restricted Band Around Fundamental Frequency	PASS

5 Test Conditions and Results

5.1 Radiated Emission (RE)

For test instruments and accessories used see section 6

5.1.1 Test Procedures

- (1) The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- (3) The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

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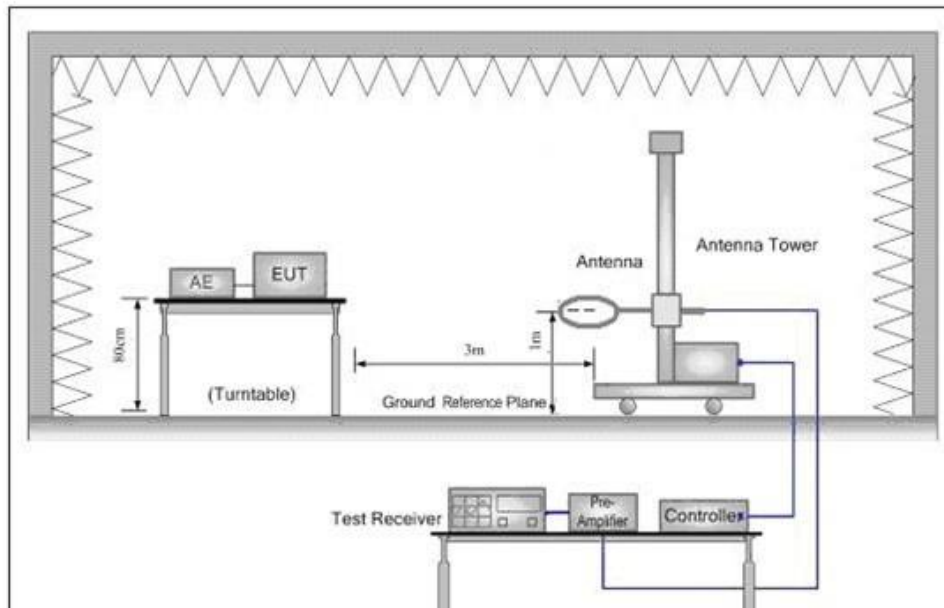
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- (4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- (5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- (6) For below 30MHz, a loop antenna with its vertical plane is place 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.
- (7) If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. All modes of operation were investigated and the worst-case emissions are reported
4. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

5.1.2 Test Setup



Below 30MHz

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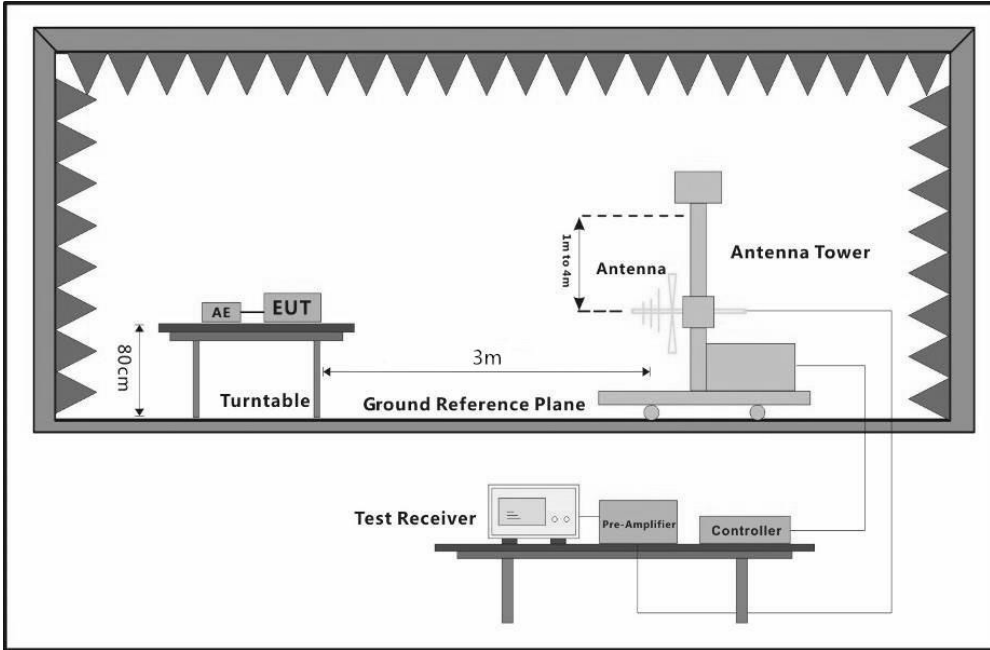
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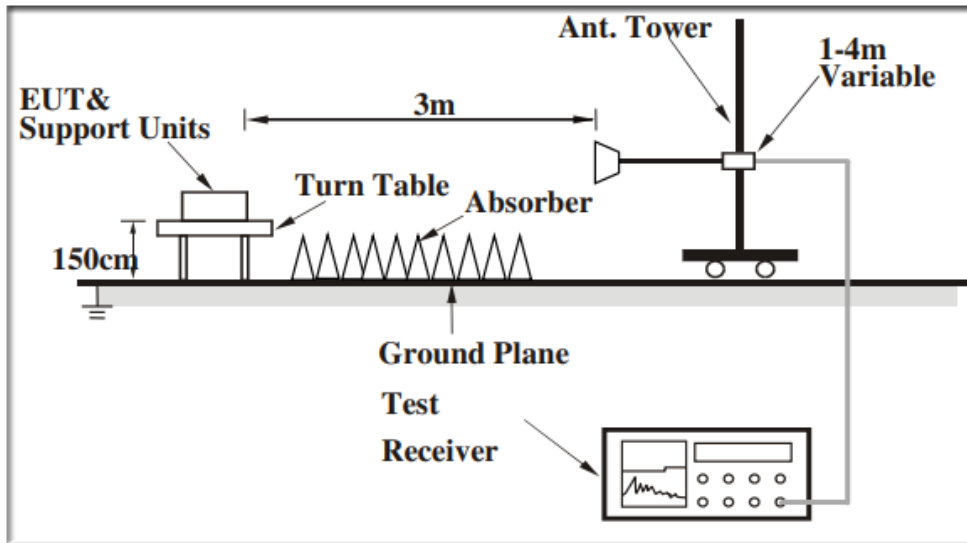
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30MHz-1000MHz



Above 1GHz

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5.1.3 Test Limits

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Filed Strength of Fundamental (milli-volts/meter)	Field Strength of Harmonics (micro-volts/meter)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~5875 MHz	50	500
24.0 ~24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBµV/m) = 20 log Emission level (µV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
4. Emission from 9kHz to 30MHz is more than 20dB below the limit.

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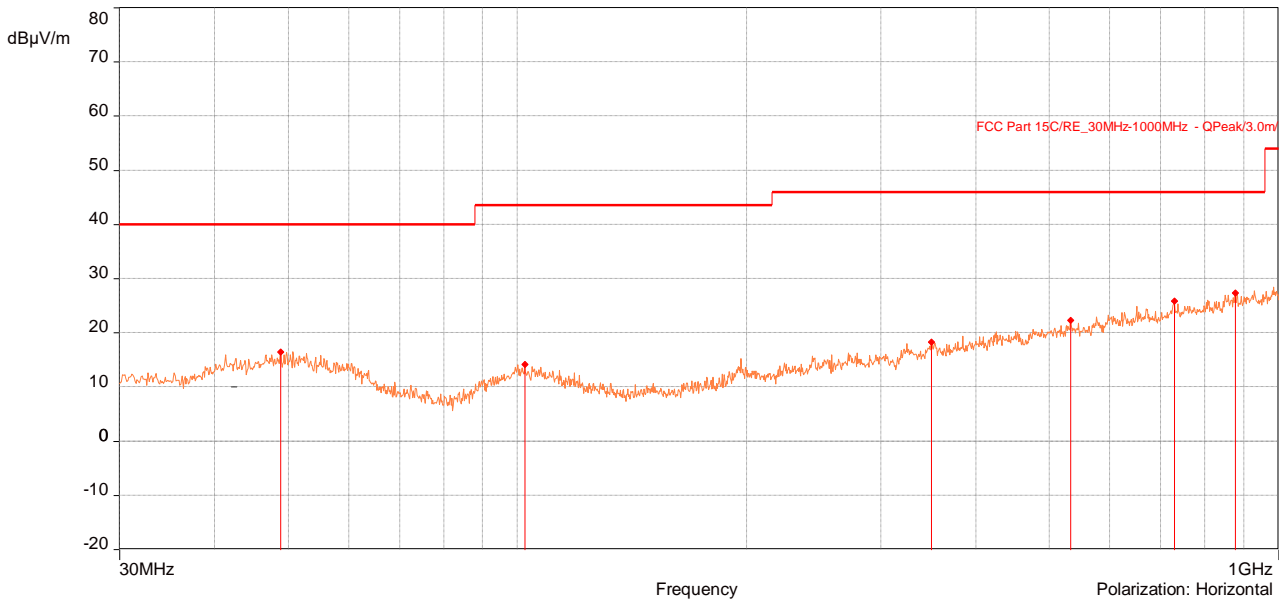
5.1.4 Test Results

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

5.1.4.1 Radiated Emissions Test (Below 1GHz)

Test Point	Operation Mode	Result
Horizontal	TX mode	PASS

EUT Name	R/C TOYS
Operating Condition	DC: 4.5V(AAA*3)
Channel	The Lowest Channel (2416MHz)
Test Condition	Ambient Temperature: 20°C Humidity: 52%RH



Frequency (MHz)	Peak (dBµV/m)	QP (dBµV/m)	QP Lim. (dBµV/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
48.818	16.50	/	40.00	-23.50	102.00	1.00	Horizontal
102.168	14.19	/	43.50	-29.31	359.00	1.00	Horizontal
349.906	18.28	/	46.00	-27.72	138.00	1.00	Horizontal
533.139	22.29	/	46.00	-23.71	286.00	1.00	Horizontal
729.273	25.90	/	46.00	-20.10	291.00	1.00	Horizontal
876.228	27.33	/	46.00	-18.67	325.00	1.00	Horizontal

- 1.QP is abbreviation of Quasi-Peak
- 2.Margin = Emission Level - Limit Value
- 3.The emission levels of other frequencies were more than 20dB margin against the limit

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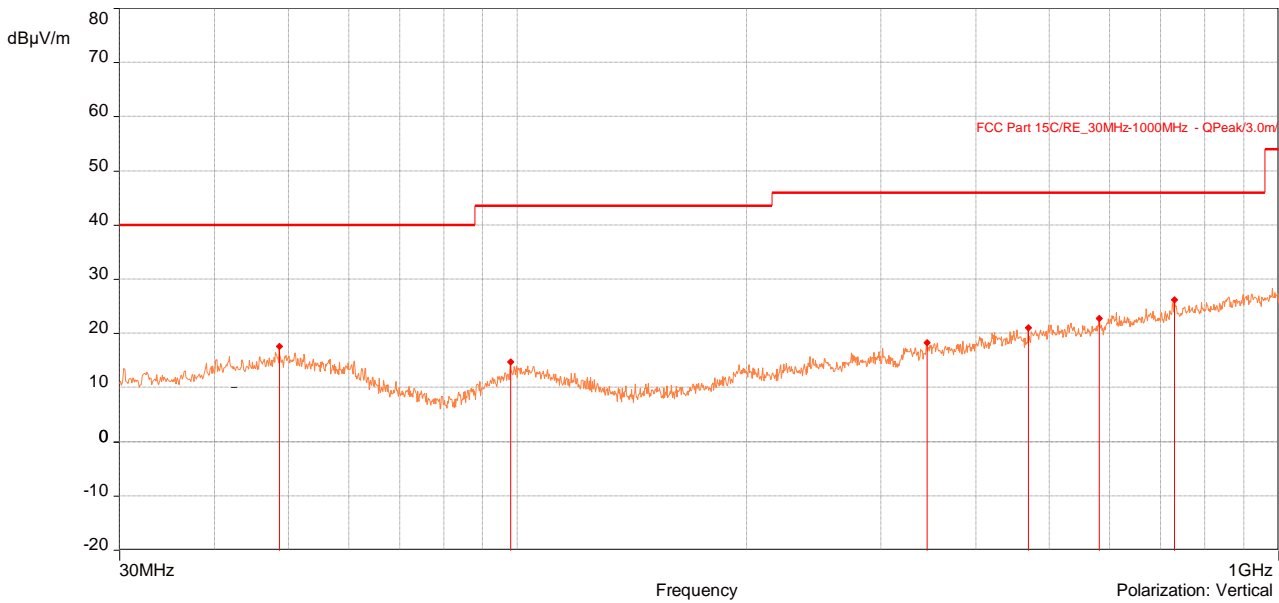
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Test Point	Operation Mode	Result
Vertical	TX mode	PASS

EUT Name	R/C TOYS
Operating Condition	DC: 4.5V(AAA*3)
Channel	The Lowest Channel (2416MHz)
Test Condition	Ambient Temperature: 20°C Humidity: 52%RH



Frequency (MHz)	Peak (dBµV/m)	QP (dBµV/m)	QP Lim. (dBµV/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
48.624	17.61	/	40.00	-22.39	42.00	1.00	Vertical
97.9	14.72	/	43.50	-28.78	170.00	1.00	Vertical
344.765	18.30	/	46.00	-27.70	11.00	1.00	Vertical
468.731	21.04	/	46.00	-24.96	207.00	1.00	Vertical
580.281	22.77	/	46.00	-23.23	176.00	1.00	Vertical
728.497	26.26	/	46.00	-19.74	319.00	1.00	Vertical

1. QP is abbreviation of Quasi-Peak
2. Margin = Emission Level - Limit Value
3. The emission levels of other frequencies were more than 20dB margin against the limit

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5.1.4.2 Radiated Emissions Test (Above 1GHz)

EUT Name	R/C TOYS		
Channel	The Lowest Channel (2416MHz)	Detector Function	Peak (PK) Average (AV)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
2400	19.56	54.00	-34.44	1.50	327.00	Horizontal	-31.63	Average
*2415.96	55.28	94.00	-38.72	1.50	293.00	Horizontal	-31.63	Average
4831.8	29.19	54.00	-24.81	2.00	29.00	Horizontal	-31.63	Average
7246.8	27.31	54.00	-26.69	2.00	334.00	Horizontal	-31.63	Average
9662.95	24.43	54.00	-29.57	1.01	191.00	Horizontal	-31.63	Average
2400	51.19	74.00	-22.81	1.50	327.00	Horizontal	-2.84	Peak
*2415.96	86.91	114.00	-27.09	1.50	293.00	Horizontal	-2.69	Peak
4831.8	60.82	74.00	-13.18	2.00	29.00	Horizontal	2.64	Peak
7246.8	58.94	74.00	-15.06	2.00	334.00	Horizontal	9.55	Peak
9662.95	56.06	74.00	-17.94	1.01	191.00	Horizontal	12.17	Peak

Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
2400	15.98	54.00	-38.02	1.50	146.00	Vertical	-31.63	Average
*2415.96	51.71	94.00	-42.29	1.50	1.00	Vertical	-31.63	Average
4831.8	22.94	54.00	-31.06	1.98	244.00	Vertical	-31.63	Average
7247.95	26.75	54.00	-27.25	1.98	333.00	Vertical	-31.63	Average
9665.25	30.95	54.00	-23.05	1.98	338.00	Vertical	-31.63	Average
2400	47.61	74.00	-26.39	1.50	146.00	Vertical	-2.84	Peak
*2415.96	83.34	114.00	-30.66	1.50	1.00	Vertical	-2.69	Peak
4831.8	54.57	74.00	-19.43	1.98	244.00	Vertical	2.64	Peak
7247.95	58.38	74.00	-15.62	1.98	333.00	Vertical	9.55	Peak
9665.25	62.58	74.00	-11.42	1.98	338.00	Vertical	12.18	Peak

Remarks:

1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The emission levels of other frequencies were more than 20dB margin against the limit.
4. Margin = Emission level - Limit value
5. " * " : Fundamental frequency.
6. The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (2.70%) = -31.63dB, please see 5.1.4.3.

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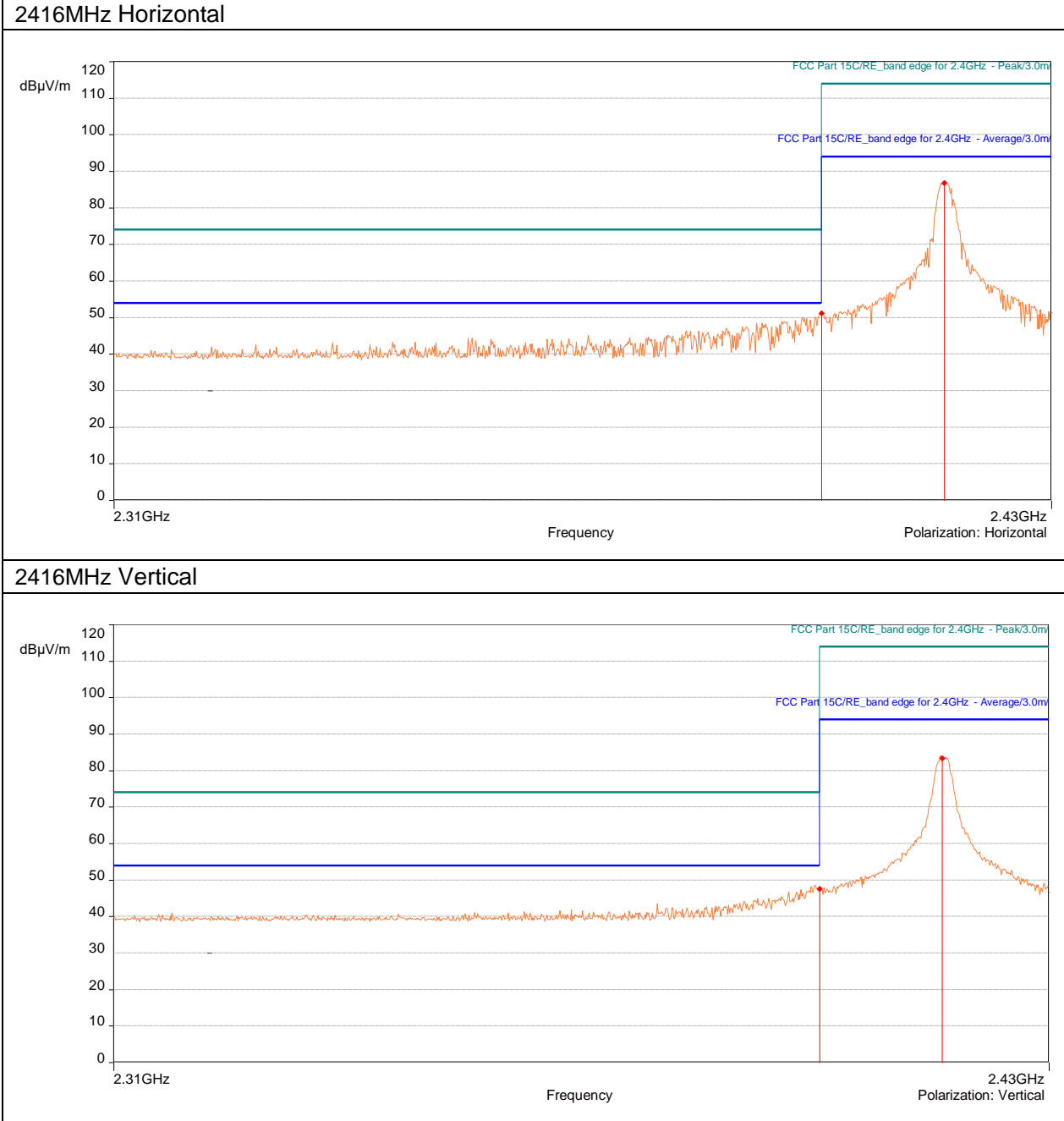
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No.: AJT231227008E-1

Band Edge Plot



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Test Report

No.: AJT231227008E-1

EUT Name	R/C TOYS		
Channel	The Middle Channel (2445MHz)	Detector Function	Peak (PK) Average (AV)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
*2445.0065	55.76	94.00	-38.24	1.48	322.00	Horizontal	-31.63	Average
4889.3	28.36	54.00	-25.64	2.00	342.00	Horizontal	-31.63	Average
7335.35	24.74	54.00	-29.26	2.00	329.00	Horizontal	-31.63	Average
9781.4	25.48	54.00	-28.52	2.00	312.00	Horizontal	-31.63	Average
*2445.0065	87.39	114.00	-26.61	1.48	322.00	Horizontal	-2.88	Peak
4889.3	59.99	74.00	-14.01	2.00	342.00	Horizontal	2.19	Peak
7335.35	56.37	74.00	-17.63	2.00	329.00	Horizontal	9.36	Peak
9781.4	57.11	74.00	-16.89	2.00	312.00	Horizontal	12.83	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
*2445.0065	52.09	94.00	-41.91	1.50	152.00	Vertical	-31.63	Average
4889.3	22.36	54.00	-31.64	1.99	252.00	Vertical	-31.63	Average
7334.2	26.41	54.00	-27.59	1.99	316.00	Vertical	-31.63	Average
9779.1	30.04	54.00	-23.96	1.99	333.00	Vertical	-31.63	Average
*2445.0065	83.72	114.00	-30.28	1.50	152.00	Vertical	-2.88	Peak
4889.3	53.99	74.00	-20.01	1.99	252.00	Vertical	2.19	Peak
7334.2	58.04	74.00	-15.96	1.99	316.00	Vertical	9.36	Peak
9779.1	61.67	74.00	-12.33	1.99	333.00	Vertical	12.83	Peak
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. " * ": Fundamental frequency. 6. The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (2.70%) = -31.63dB, please see 5.1.4.3.								

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Test Report

No.: AJT231227008E-1

EUT Name	R/C TOYS		
Channel	The Highest Channel (2475MHz)	Detector Function	Peak (PK) Average (AV)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
*2475	57.61	94.00	-36.39	1.48	291.00	Horizontal	-31.63	Average
2483.5	26.48	54.00	-27.52	1.48	301.00	Horizontal	-31.63	Average
4950.25	27.14	54.00	-26.86	1.98	341.00	Horizontal	-31.63	Average
7426.2	26.66	54.00	-27.34	1.98	318.00	Horizontal	-31.63	Average
9901	25.46	54.00	-28.54	1.98	135.00	Horizontal	-31.63	Average
*2475	89.24	114.00	-24.76	1.48	291.00	Horizontal	-2.83	Peak
2483.5	58.11	74.00	-15.89	1.48	301.00	Horizontal	-2.86	Peak
4950.25	58.77	74.00	-15.23	1.98	341.00	Horizontal	2.65	Peak
7426.2	58.29	74.00	-15.71	1.98	318.00	Horizontal	9.53	Peak
9901	57.09	74.00	-16.91	1.98	135.00	Horizontal	13.14	Peak
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
*2475	52.67	94.00	-41.33	1.50	159.00	Vertical	-31.63	Average
2483.5	22.31	54.00	-31.69	1.50	163.00	Vertical	-31.63	Average
4950.25	22.07	54.00	-31.93	1.99	235.00	Vertical	-31.63	Average
7423.9	23.95	54.00	-30.05	1.99	335.00	Vertical	-31.63	Average
9901	28.13	54.00	-25.87	1.99	330.00	Vertical	-31.63	Average
*2475	84.30	114.00	-29.70	1.50	159.00	Vertical	-2.83	Peak
2483.5	53.94	74.00	-20.06	1.50	163.00	Vertical	-2.86	Peak
4950.25	53.70	74.00	-20.30	1.99	235.00	Vertical	2.65	Peak
7423.9	55.58	74.00	-18.42	1.99	335.00	Vertical	9.53	Peak
9901	59.76	74.00	-14.24	1.99	330.00	Vertical	13.14	Peak

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Test Report

No.: AJT231227008E-1

Remarks:

1. Emission level (dB μ V/m) = Raw Value (dB μ V) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The emission levels of other frequencies were more than 20dB margin against the limit.
4. Margin = Emission level - Limit value
5. " * ": Fundamental frequency.
6. The average value of fundamental frequency is: Average value = Peak value +AV factor, where the AV factor is calculated from following formula: AV factor=20 log (Duty cycle) = 20 log (2.70%) = -31.63dB, please see 5.1.4.3.

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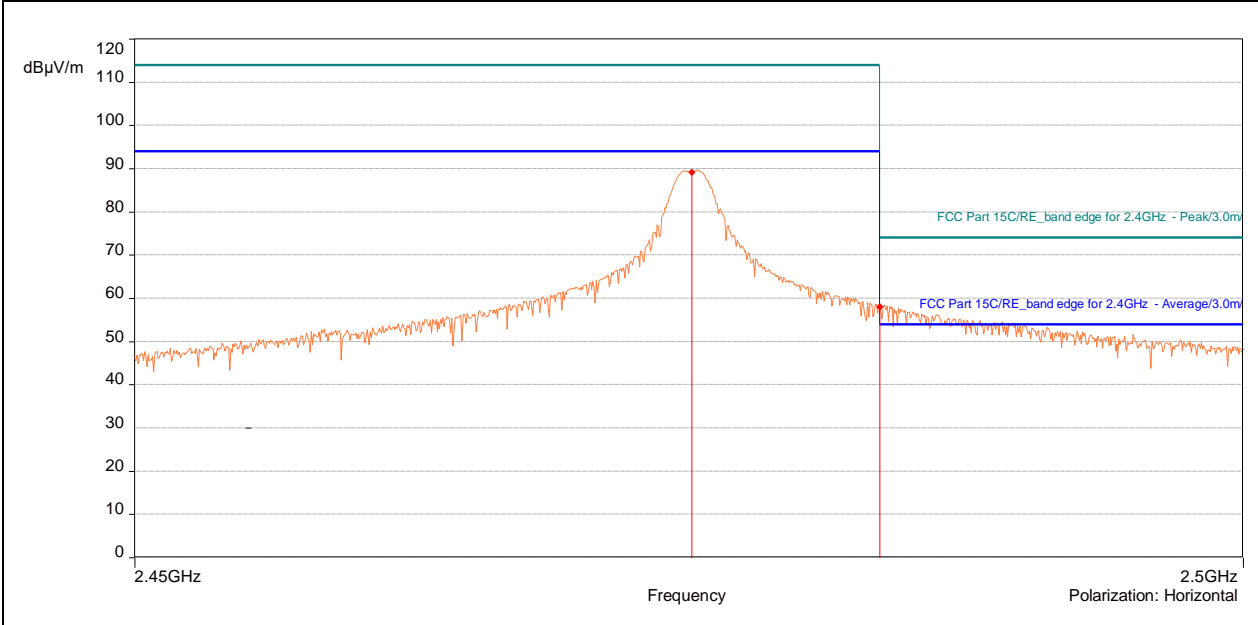
Add: 1-2/F., No.1, Wenhua South Road, Chenghua Industrial Zone, Chenghai District, Shantou, Guangdong, China
Tel: 86-754-85860999 Fax: 86-754-86984098 Website: www.ajtesting.com Email: info@ajtesting.com

Test Report

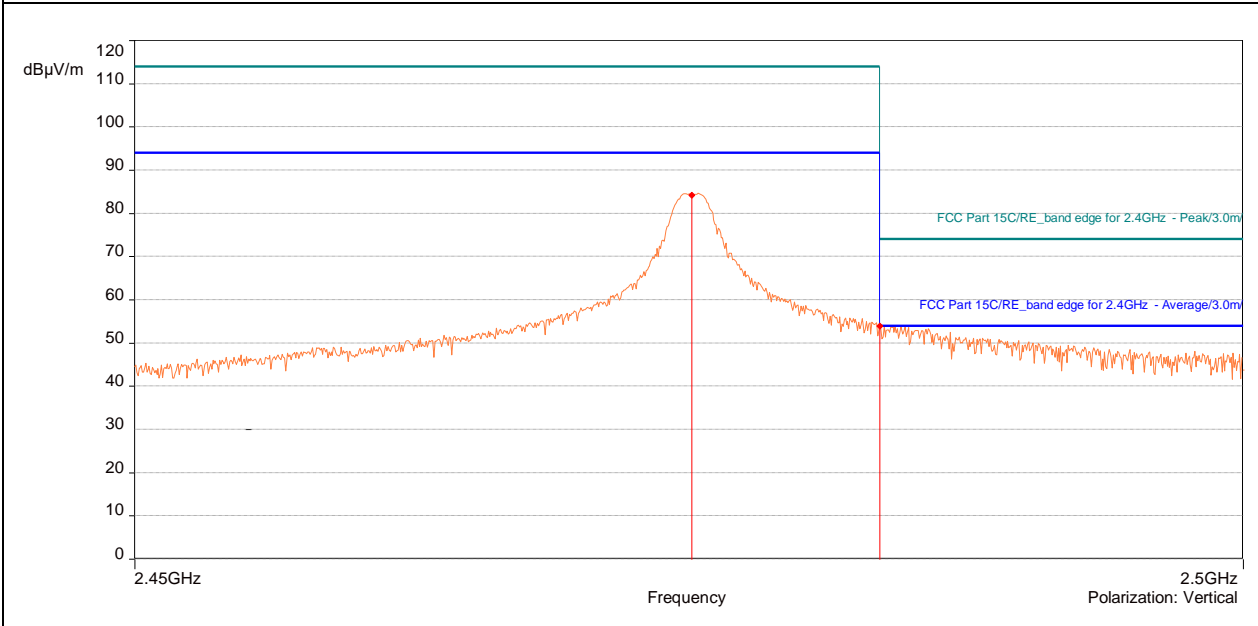
No.: AJT231227008E-1

Band Edge Plot

2475MHz Horizontal



2475MHz Vertical



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Test Report

No.: AJT231227008E-1

5.1.4.3 Calculation of Average Factor

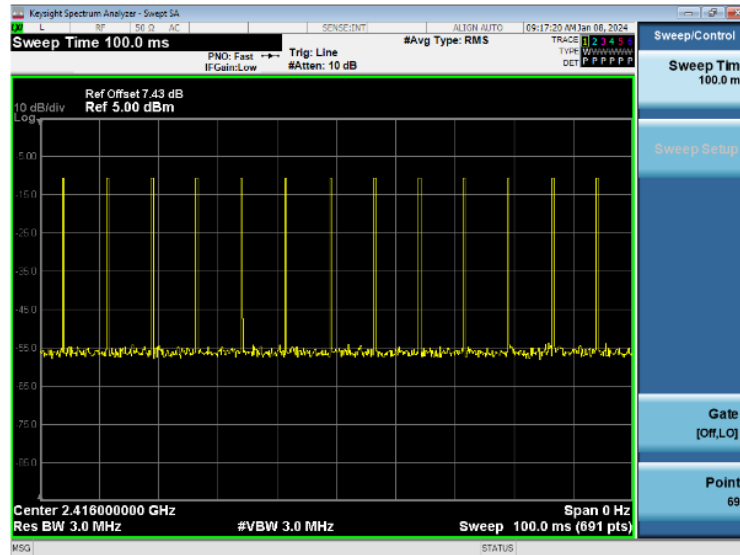
Effective period of the cycle = 0.203ms

The duration of one cycle = 7.511ms

Duty Cycle = $0.203\text{ms} / 7.511\text{ms} = 2.70\%$

Averaging factor in dB = $20 \log(\text{duty cycle}) = 20 \log(2.70\%) = -31.63\text{dB}$

100ms Duty Cycle



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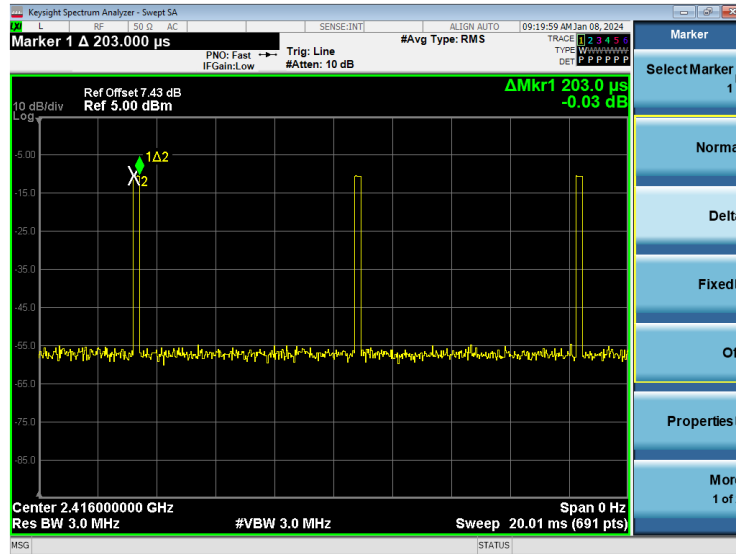
Add: 1-2/F., No.1, Wenhua South Road, Chenghua Industrial Zone, Chenghai District, Shantou, Guangdong, China

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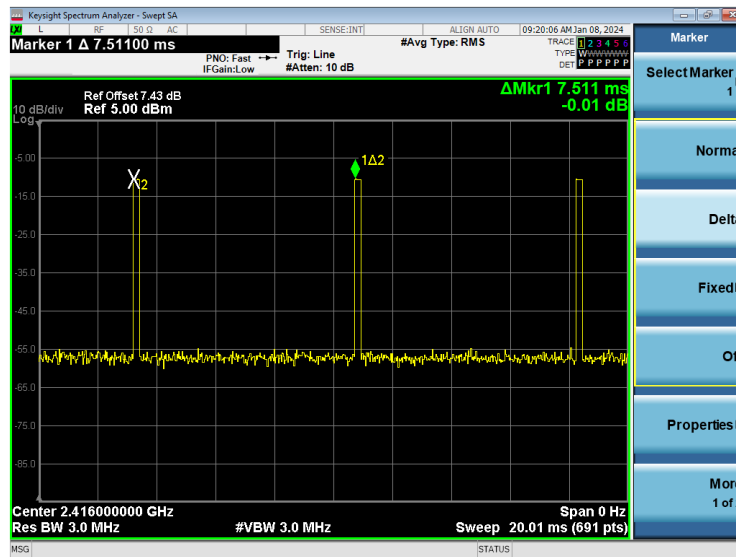
Test Report

No.: AJT231227008E-1

Ton of one cycle



The duration of one cycle



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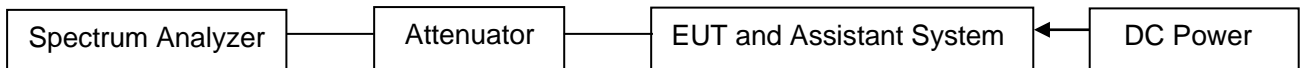
5.2 20dB Bandwidth

For test instruments and accessories used see section 6

5.2.1 Test Procedures

- (1) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- (2) Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- (3) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- (4) Repeat above procedures until all frequencies measured were complete.

5.2.2 Test Setup



5.2.3 Test Limits

According to FCC 15.215(c), must be designed to ensure that the 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.2.4 Test Results

Channel	frequency (MHz)	20dB Bandwidth (MHz)
The lowest channel	2416	1.341
The middle channel	2445	1.272
The highest channel	2475	1.190

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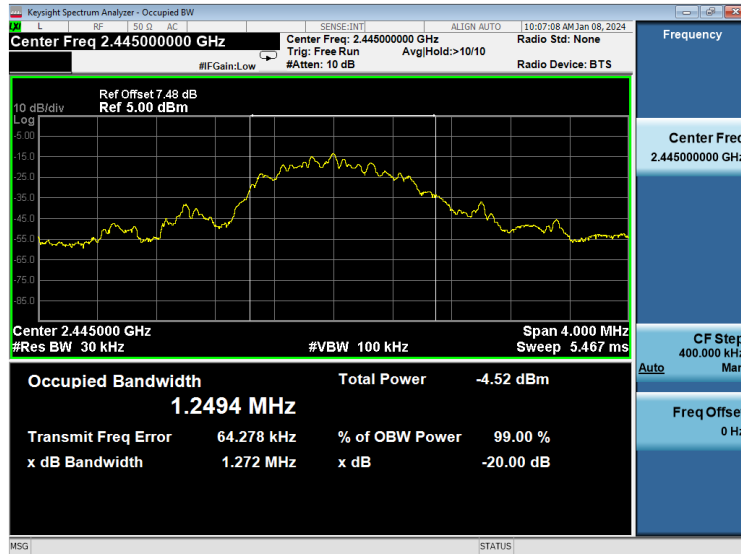
Add: 1-2/F., No.1, Wenhua South Road, Chenghua Industrial Zone, Chenghai District, Shantou, Guangdong, China
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Test Report

No.: AJT231227008E-1



2416MHz



2445MHz

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Test Report

No.: AJT231227008E-1



2475MHz

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Test Report

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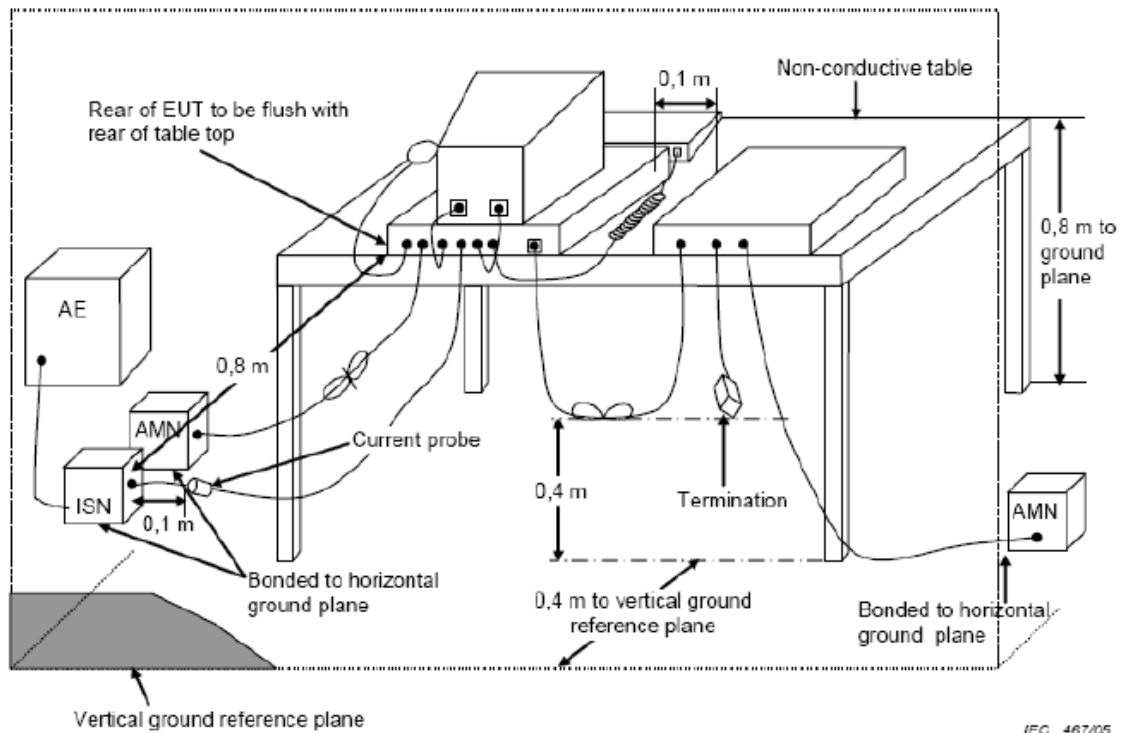
5.3 Conducted Emission (CE)

For test instruments and accessories used see section 6

5.3.1 Test Procedures

The PC Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10-2013 on Conducted Emission Test.

5.3.2 Test Setup



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Test Report

No.: AJT231227008E-1

5.3.3 Test Limits

Standard: FCC Part 15 §15.207(a)		
Frequency of emission (MHz)	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

5.3.4 Test Results

Not Applicable

Note: The device is a DC power supply and does not apply to conducted emissions.

5.4 Antenna Requirements

5.4.1 Test Standard:

FCC Part 15, Subpart C 15.203

5.4.2 Standard 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.

5.4.3 EUT Antenna:

The antenna is Transparent antenna and no consideration of replacement. The best case gain of the antenna is 0.5dBi. Antenna location: Refer to Internal Photos of R/C TOYS.

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Test Report

No.: AJT231227008E-1

6 Test Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Keysight	N9010A	MY51120099	2023/03/13	2024/03/13
2	JS0806-2 RF Control Unit	Tonscend	JS0806-2	188060124	2023/07/14	2024/07/14
3	Broadband Preamplifier	SCHWARZBECK	BBV 9743B	00067	2023/03/14	2024/03/14
4	Broadband Preamplifier	SCHWARZBECK	BBV 9718B	00002	2023/03/14	2024/03/14
5	EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102452	2023/03/13	2024/03/13
6	Trilog Broadband Antenna	SCHWARZBECK	VULB 9163	01127	2023/03/13	2025/03/13
7	Horn Antenna	SCHWARZBECK	BBHA 9120D	01829	2023/03/13	2025/03/13
8	DC Power Supply	MAISEN	MP5030D	2018121557	2023/07/24	2024/07/24
9	Vector Signal Generator	Keysight	N5172B	MY53052255	2023/03/13	2024/03/13
10	Analog Signal Generator	Keysight	N5171B	MY53051692	2023/03/13	2024/03/13
11	Temperature Humidity Chamber	Yiheng	BPS-50CB	191005684	2022/07/28	2024/07/28
12	Temperature and Humidity Indicator	JianDaRenKe	Cos-03	612058	2023/07/07	2024/07/07
13	BAT-EMC Testing (Test Software)	NEXIO	Version: 3.19.1.20	N/A	N/A	N/A
14	JS1120-3 Test System (Test Software)	Tonscend	JS1120-3	Version: 2.6.88.0341	N/A	N/A
15	Active Loop Antenna	HRTY	HR8913A	69331322060 23	2023/07/20	2024/07/20

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Test Report

No.: AJT231227008E-1

7 Test Photographs

Referring to – “Test Setup Photos of R/C TOYS”.

8 Photos of the EUT

Referring to – “External Photos of R/C TOYS” and “Internal Photos of R/C TOYS”.

9 Manufacturer/ Approval Holder Declaration

The following identical model(s):

ODY-03SI, 2320, 1303, FX632, 2403, 2202, 2205, 2205D, 2209, 2209H, 2301, 2303, 2305, 2306, 2308, 2310, 2313, 2314, K22, K24-3, K24-4, K24-5, K24-6, K24-9

Belong to the tested device:

Product Description: R/C TOYS
Model No.: ODY-01SI

END OF TEST REPORT

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