



TEST REPORT No: (5219)161-0041

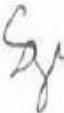
TEST REPORT

| | | |
|--|--|--|
| To: | NKOK, INC. | |
| Attn: | -- | |
| Address: | 5354 Irwindale Ave Unit A Irwindale CA 91706 | |
| Fax: | 626-330-1199 | |
| E-mail: | testing@nkok.com | |
| Folder No.: | -- | |
| Factory name: | -- | |
| Location: | -- | |
| Product: | RC Car Model No.: 81601 | |
|  | | <p>Sample No: (5219)161-0041</p> <p>Date of Receipt: June 14, 2019</p> <p>Test date: July 04, 2019</p> <p>Test Requested: FCC Part 15 - 2017</p> <p>Test Method: ANSI C63.10 - 2013</p> <p>FCC ID: XQPNS051924TX</p> |

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

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

Authorized Signature:

| | |
|---|--|
|  |  |
| Reviewed by: Sze Tsz Man | Approved by: Law Man kit |
| Date: July 12, 2019 | Date: July 12, 2019 |

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
 Tel: +852 2331 0888
 Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041
Test Result Summary

| EMISSION TEST | | | |
|---|-------------|-------------------------------------|--------------------------|
| Test requirement: FCC Part 15 - 2017 | | | |
| Test Condition | Test Method | Test Result | |
| | | Pass | Failed |
| Radiated Emission Test, 9kHz to 24GHz | ANSI C63.10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Frequency range of Fundamental Emission | ANSI C63.10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 26dB Bandwidth of Fundamental Emission | ANSI C63.10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Duty Cycle Correction During 100msec | ANSI C63.10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Report Revision & Sample Re-submit History:

--

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Location of the test laboratory

Bureau Veritas Hong Kong Limited

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

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

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

List of measuring equipment

Radiated Emission

| EQUIPMENT | MANUFACTURER | MODEL NO. | SERIAL NO. | CAL. DATE | CAL. DUE DATE |
|------------------------------------|-----------------------|--------------------|-------------|-------------|---------------|
| EMI TEST RECEIVER | R&S | ESU40 | 100190 | 12-JUN-2019 | 12-JUN-2020 |
| SEMI-ANECHOIC CHAMBER | FRANKONIA | -- | -- | 23-APR-2019 | 23-APR-2020 |
| BICONICAL ANTENNA | R&S | HK116 | 100241 | 21-MAR-2018 | 21-MAR-2020 |
| LOG-PERIODIC ANTENNA | R&S | HL223 | 841516/017 | 21-MAR-2018 | 21-MAR-2020 |
| ACTIVE LOOP ANTENNA | EMCO | 6502 | 9107-2651 | 30-OCT-2017 | 30-OCT-2019 |
| STANDARD GAIN HORN (8.2 – 12.4GHZ) | ETS-LINDGREN | 3160-07 | 00205404 | 04-SEP-2018 | 04-SEP-2020 |
| STANDARD GAIN HORN (12.4 – 18GHZ) | ETS-LINDGREN | 3160-08 | 002056363 | 26-SEP-2018 | 26-SEP-2020 |
| DOUBLE RIDGED HORN (1 – 8.2GHZ) | ETS-LINDGREN | 3117 | 00094998 | 30-AUG-2018 | 30-AUG-2020 |
| STANDARD GAIN HORN (26.5 – 40GHZ) | ETS-LINDGREN | 3160-10 | 00205696 | 03-OCT-2018 | 03-OCT-2020 |
| DOUBLE RIDGED HORN (18-26.5GHZ) | ETS-LINDGREN | 3116 | 00109210 | 05-OCT-2018 | 05-OCT-2020 |
| MICROWAVE PREAMPLIFIER | COM-POWER CORPORATION | PAM-118A | 551091 | 25-JUN-2019 | 25-JUN-2020 |
| PREAMPLIFIER (18-40GHZ WITH CABLE) | A.H. Systems, Inc. | Pam-1840VH | 168 | 29-JAN-2019 | 29-JAN-2020 |
| COAXIAL CABLE | Huber+Suhner | CNM-NMCMILX800-473 | A2803 #0001 | 11-DEC-2017 | 11-DEC-2019 |

Measurement Uncertainty

| MEASUREMENT | FREQUENCY | UNCERTAINTY |
|--------------------|-------------------|-------------|
| Radiated emissions | 30MHz to 200MHz | ±5.1dB |
| | 200MHz to 1GHz | ±6.2dB |
| | 1GHz to 8.2GHz | ±4.9dB |
| | 8.2GHz to 12.4GHz | ±4.4dB |
| | 12.4GHz to 18GHz | ±4.6dB |

Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Equipment Under Test [EUT]

Description of Sample:

Model Name: RC Car
Model Number: 81601
Additional Model Name: --
Additional Model Number: 81602, 81603, 81604, 81605, 81606, 81501, 81502, 81503, 81504
Additional Model information: Declare the Circuit, PCB layout and Electrical parts of the products are identical to the basic model, except the model number for market purpose
Rating: 3Vd.c. ("AA" size battery x 2)

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Description of EUT Operation:

The Equipment Under Test (EUT) is a **NKOK, INC.** of Remote Control Transmitter. It is a 1 switch, 1 wheel and 1 trigger transmitter and operating at 2405MHz to 2475MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while buttons is being pressed or sticks are being pushed or pulled, Modulation by IC, and type is GFSK.

There are total 70 channels and below is the frequency list :

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|
| 2405 | 2406 | 2407 | 2408 | 2409 | 2410 | 2411 | 2412 | 2413 | 2414 |
| 2415 | 2416 | 2417 | 2418 | 2419 | 2420 | 2421 | 2422 | 2423 | 2424 |
| 2425 | 2426 | 2427 | 2428 | 2429 | 2430 | 2431 | 2432 | 2433 | 2434 |
| 2435 | 2436 | 2437 | 2438 | 2439 | 2440 | 2441 | 2442 | 2443 | 2444 |
| 2445 | 2446 | 2447 | 2448 | 2449 | 2450 | 2451 | 2452 | 2453 | 2454 |
| 2455 | 2456 | 2457 | 2458 | 2459 | 2460 | 2461 | 2462 | 2463 | 2464 |
| 2465 | 2466 | 2467 | 2468 | 2469 | 2470 | 2471 | 2472 | 2473 | 2474 |
| 2475 | | | | | | | | | |

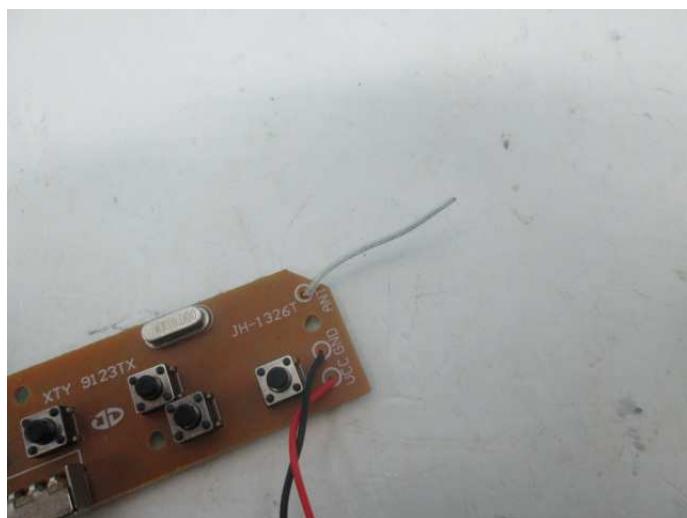
The transmitter has different control:

1. Switch "ON/OFF" – ON/OFF control
2. Wheel – control left and right
3. Trigger – control forward and backward

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna consists of 2.9cm long wire The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

Photo of Antenna





TEST REPORT No: (5219)161-0041

Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249
Test Method: ANSI C63.10
Test Date(s): 2019-07-04
Temperature: 24.0 °C
Humidity: 53.0 %
Mode of Operation: Transmission mode
Tested Voltage: 3Vd.c. ("AA" size battery x 2)

Test Procedure:

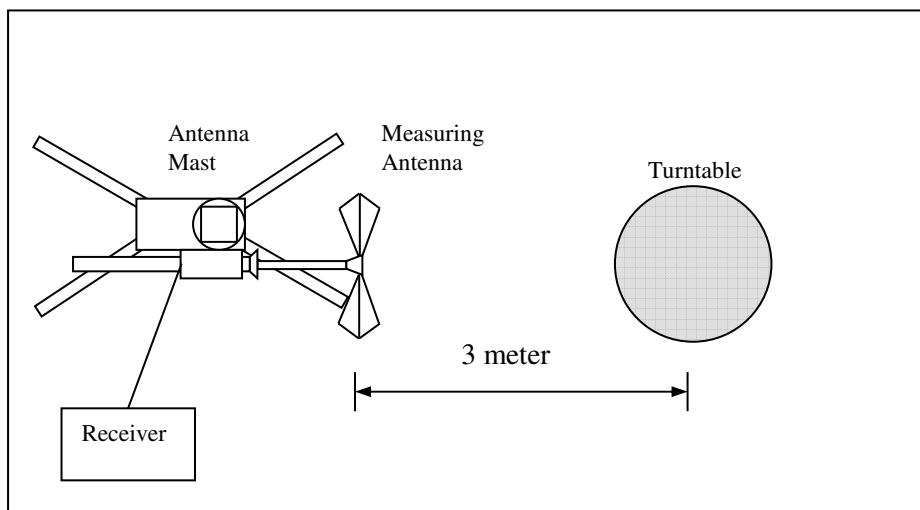
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground for measurement frequency below 1GHz and 1.5m high above the ground for measurement frequency above 1GHz. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is 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.

Location: Hong Kong Productivity Council – Electromagnetic Compatibility Centre

Test Setup: Semi-anechoic chamber



BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

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

| Frequency Range of Fundamental [MHz] | Field Strength of Fundamental Emission (Average) [mV/m] | Field Strength of Harmonics Emission (Average) [μV/m] |
|---|---|---|
| 2400-2483.5 | 50 | 500 |

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

| Frequency (MHz) | Polarity (H/V) | Antenna Factor & Cable Loss (dB/m) | Duty-cycle correction (dB) | Field Strength at 3m – Peak (dB μ V/m) | Limit at 3m – Peak (dB μ V/m) | Margin - Peak (dB) | Field Strength at 3m – Average (dB μ V/m) | Limit at 3m – Average (dB μ V/m) | Margin - Average (dB) |
|-----------------|----------------|------------------------------------|----------------------------|--|-----------------------------------|--------------------|---|--------------------------------------|-----------------------|
| 2405.00 | H | 32.0 | -28.8 | 93.4 | 114.0 | -20.6 | 64.6 | 94.0 | -29.4 |
| 2405.00 | V | 32.0 | -28.8 | 90.3 | 114.0 | -23.7 | 61.5 | 94.0 | -32.5 |

Test Result of (Transmission mode, Middle frequency): PASS

| Frequency (MHz) | Polarity (H/V) | Antenna Factor & Cable Loss (dB/m) | Duty-cycle correction (dB) | Field Strength at 3m – Peak (dB μ V/m) | Limit at 3m – Peak (dB μ V/m) | Margin - Peak (dB) | Field Strength at 3m – Average (dB μ V/m) | Limit at 3m – Average (dB μ V/m) | Margin - Average (dB) |
|-----------------|----------------|------------------------------------|----------------------------|--|-----------------------------------|--------------------|---|--------------------------------------|-----------------------|
| 2440.00 | H | 32.0 | -28.8 | 85.6 | 114.0 | -28.4 | 56.8 | 94.0 | -37.2 |
| 2440.00 | V | 32.0 | -28.8 | 90.8 | 114.0 | -23.2 | 62.0 | 94.0 | -32.0 |

Test Result of (Transmission mode, Highest frequency): PASS

| Frequency (MHz) | Polarity (H/V) | Antenna Factor & Cable Loss (dB/m) | Duty-cycle correction (dB) | Field Strength at 3m – Peak (dB μ V/m) | Limit at 3m – Peak (dB μ V/m) | Margin - Peak (dB) | Field Strength at 3m – Average (dB μ V/m) | Limit at 3m – Average (dB μ V/m) | Margin - Average (dB) |
|-----------------|----------------|------------------------------------|----------------------------|--|-----------------------------------|--------------------|---|--------------------------------------|-----------------------|
| 2475.00 | H | 32.3 | -28.8 | 89.0 | 114.0 | -25.0 | 60.2 | 94.0 | -33.8 |
| 2475.00 | V | 32.3 | -28.8 | 87.9 | 114.0 | -26.1 | 59.1 | 94.0 | -34.9 |

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.03625) = -28.8\text{dB}$

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.249
Test Method: ANSI C63.10
Test Date(s): 2019-07-04
Temperature: 24.0 °C
Humidity: 53.0 %
Mode of Operation: Transmission mode
Tested Voltage: 3Vd.c. ("AA" size battery x 2)

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

| Frequency (MHz) | Polarity (H/V) | Antenna Factor & Cable Loss (dB/m) | Duty-cycle correction (dB) | Field Strength at 3m – Peak (dB μ V/m) | Limit at 3m – Peak (dB μ V/m) | Margin - Peak (dB) | Field Strength at 3m – Average (dB μ V/m) | Limit at 3m – Average (dB μ V/m) | Margin - Average (dB) |
|-----------------|----------------|------------------------------------|----------------------------|--|-----------------------------------|--------------------|---|--------------------------------------|-----------------------|
| 2400.00 | H | 32.0 | -28.8 | 56.0 | 74.0 | -18.0 | 27.2 | 54.0 | -26.8 |
| 4810.00 | H | -1.3 | -28.8 | 59.1 | 74.0 | -14.9 | 30.3 | 54.0 | -23.7 |
| 7215.00 | H | 2.4 | -28.8 | 59.2 | 74.0 | -14.8 | 30.4 | 54.0 | -23.6 |
| 9620.00 | H | 4.8 | -28.8 | 51.5 | 74.0 | -22.5 | 22.7 | 54.0 | -31.3 |
| 12025.00 | H | 5.4 | -28.8 | 45.7 | 74.0 | -28.3 | 16.9 | 54.0 | -37.1 |
| 14430.00 | H | 8.9 | -28.8 | 47.1 | 74.0 | -26.9 | 18.3 | 54.0 | -35.7 |
| 16835.00 | H | 8.4 | -28.8 | 46.0 | 74.0 | -28.0 | 17.2 | 54.0 | -36.8 |
| 19240.00 | H | 20.5 | -28.8 | 47.4 | 74.0 | -26.6 | 18.6 | 54.0 | -35.4 |
| 21645.00 | H | 21.7 | -28.8 | 48.9 | 74.0 | -25.1 | 20.1 | 54.0 | -33.9 |
| 24050.00 | H | 25.7 | -28.8 | 49.6 | 74.0 | -24.4 | 20.8 | 54.0 | -33.2 |
| 26455.00 | H | 29.5 | -28.8 | 50.3 | 74.0 | -23.7 | 21.5 | 54.0 | -32.5 |

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.03625) = -28.8\text{dB}$

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

| Frequency (MHz) | Polarity (H/V) | Antenna Factor & Cable Loss (dB/m) | Duty-cycle correction (dB) | Field Strength at 3m – Peak (dB μ V/m) | Limit at 3m – Peak (dB μ V/m) | Margin - Peak (dB) | Field Strength at 3m – Average (dB μ V/m) | Limit at 3m – Average (dB μ V/m) | Margin - Average (dB) |
|-----------------|----------------|------------------------------------|----------------------------|--|-----------------------------------|--------------------|---|--------------------------------------|-----------------------|
| 2400.00 | V | 32.0 | -28.8 | 55.6 | 74.0 | -18.4 | 26.8 | 54.0 | -27.2 |
| 4810.00 | V | -1.3 | -28.8 | 65.1 | 74.0 | -8.9 | 36.3 | 54.0 | -17.7 |
| 7215.00 | V | 2.4 | -28.8 | 59.3 | 74.0 | -14.7 | 30.5 | 54.0 | -23.5 |
| 9620.00 | V | 4.8 | -28.8 | 48.8 | 74.0 | -25.2 | 20.0 | 54.0 | -34.0 |
| 12025.00 | V | 5.4 | -28.8 | 45.0 | 74.0 | -29.0 | 16.2 | 54.0 | -37.8 |
| 14430.00 | V | 8.9 | -28.8 | 47.8 | 74.0 | -26.2 | 19.0 | 54.0 | -35.0 |
| 16835.00 | V | 8.4 | -28.8 | 46.6 | 74.0 | -27.4 | 17.8 | 54.0 | -36.2 |
| 19240.00 | V | 20.5 | -28.8 | 48.9 | 74.0 | -25.1 | 20.1 | 54.0 | -33.9 |
| 21645.00 | V | 21.7 | -28.8 | 50.1 | 74.0 | -23.9 | 21.3 | 54.0 | -32.7 |
| 24050.00 | V | 25.7 | -28.8 | 50.6 | 74.0 | -23.4 | 21.8 | 54.0 | -32.2 |
| 26455.00 | V | 29.5 | -28.8 | 51.5 | 74.0 | -22.5 | 22.7 | 54.0 | -31.3 |

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.03625) = -28.8\text{dB}$

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Measurement Data

Test Result of (Transmission mode, Middle frequency): PASS

| Frequency (MHz) | Polarity (H/V) | Antenna Factor & Cable Loss (dB/m) | Duty-cycle correction (dB) | Field Strength at 3m – Peak (dB μ V/m) | Limit at 3m – Peak (dB μ V/m) | Margin - Peak (dB) | Field Strength at 3m – Average (dB μ V/m) | Limit at 3m – Average (dB μ V/m) | Margin - Average (dB) |
|-----------------|----------------|------------------------------------|----------------------------|--|-----------------------------------|--------------------|---|--------------------------------------|-----------------------|
| 4880.00 | H | -1.3 | -28.8 | 59.1 | 74.0 | -14.9 | 30.3 | 54.0 | -23.7 |
| 7320.00 | H | 2.4 | -28.8 | 58.4 | 74.0 | -15.6 | 29.6 | 54.0 | -24.4 |
| 9760.00 | H | 4.8 | -28.8 | 50.4 | 74.0 | -23.6 | 21.6 | 54.0 | -32.4 |
| 12200.00 | H | 5.4 | -28.8 | 45.4 | 74.0 | -28.6 | 16.6 | 54.0 | -37.4 |
| 14640.00 | H | 11.1 | -28.8 | 47.3 | 74.0 | -26.7 | 18.5 | 54.0 | -35.5 |
| 17080.00 | H | 12.5 | -28.8 | 46.8 | 74.0 | -27.2 | 18.0 | 54.0 | -36.0 |
| 19520.00 | H | 20.7 | -28.8 | 48.0 | 74.0 | -26.0 | 19.2 | 54.0 | -34.8 |
| 21960.00 | H | 22.1 | -28.8 | 48.5 | 74.0 | -25.5 | 19.7 | 54.0 | -34.3 |
| 24400.00 | H | 25.7 | -28.8 | 49.2 | 74.0 | -24.8 | 20.4 | 54.0 | -33.6 |
| 26840.00 | H | 29.7 | -28.8 | 50.7 | 74.0 | -23.3 | 21.9 | 54.0 | -32.1 |

| Frequency (MHz) | Polarity (H/V) | Antenna Factor & Cable Loss (dB/m) | Duty-cycle correction (dB) | Field Strength at 3m – Peak (dB μ V/m) | Limit at 3m – Peak (dB μ V/m) | Margin - Peak (dB) | Field Strength at 3m – Average (dB μ V/m) | Limit at 3m – Average (dB μ V/m) | Margin - Average (dB) |
|-----------------|----------------|------------------------------------|----------------------------|--|-----------------------------------|--------------------|---|--------------------------------------|-----------------------|
| 4880.00 | V | -1.3 | -28.8 | 54.1 | 74.0 | -19.9 | 25.3 | 54.0 | -28.7 |
| 7320.00 | V | 2.4 | -28.8 | 55.0 | 74.0 | -19.0 | 26.2 | 54.0 | -27.8 |
| 9760.00 | V | 4.8 | -28.8 | 49.3 | 74.0 | -24.7 | 20.5 | 54.0 | -33.5 |
| 12200.00 | V | 5.4 | -28.8 | 45.7 | 74.0 | -28.3 | 16.9 | 54.0 | -37.1 |
| 14640.00 | V | 11.1 | -28.8 | 47.5 | 74.0 | -26.5 | 18.7 | 54.0 | -35.3 |
| 17080.00 | V | 12.5 | -28.8 | 47.0 | 74.0 | -27.0 | 18.2 | 54.0 | -35.8 |
| 19520.00 | V | 20.7 | -28.8 | 47.9 | 74.0 | -26.1 | 19.1 | 54.0 | -34.9 |
| 21960.00 | V | 22.1 | -28.8 | 48.2 | 74.0 | -25.8 | 19.4 | 54.0 | -34.6 |
| 24400.00 | V | 25.7 | -28.8 | 48.6 | 74.0 | -25.4 | 19.8 | 54.0 | -34.2 |
| 26840.00 | V | 29.7 | -28.8 | 49.8 | 74.0 | -24.2 | 21.0 | 54.0 | -33.0 |

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.03625) = -28.8\text{dB}$

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Measurement Data

Test Result of (Transmission mode, Highest frequency): PASS

| Frequency (MHz) | Polarity (H/V) | Antenna Factor & Cable Loss (dB/m) | Duty-cycle correction (dB) | Field Strength at 3m – Peak (dB μ V/m) | Limit at 3m – Peak (dB μ V/m) | Margin - Peak (dB) | Field Strength at 3m – Average (dB μ V/m) | Limit at 3m – Average (dB μ V/m) | Margin - Average (dB) |
|-----------------|----------------|------------------------------------|----------------------------|--|-----------------------------------|--------------------|---|--------------------------------------|-----------------------|
| 2483.50 | H | 32.3 | -28.8 | 56.6 | 74.0 | -17.4 | 27.8 | 54.0 | -26.2 |
| 4950.00 | H | -1.3 | -28.8 | 51.5 | 74.0 | -22.5 | 22.7 | 54.0 | -31.3 |
| 7425.00 | H | 2.4 | -28.8 | 51.1 | 74.0 | -22.9 | 22.3 | 54.0 | -31.7 |
| 9900.00 | H | 4.8 | -28.8 | 50.2 | 74.0 | -23.8 | 21.4 | 54.0 | -32.6 |
| 12375.00 | H | 5.4 | -28.8 | 46.0 | 74.0 | -28.0 | 17.2 | 54.0 | -36.8 |
| 14850.00 | H | 11.1 | -28.8 | 46.3 | 74.0 | -27.7 | 17.5 | 54.0 | -36.5 |
| 17325.00 | H | 12.5 | -28.8 | 47.1 | 74.0 | -26.9 | 18.3 | 54.0 | -35.7 |
| 19800.00 | H | 20.7 | -28.8 | 48.2 | 74.0 | -25.8 | 19.4 | 54.0 | -34.6 |
| 22275.00 | H | 22.1 | -28.8 | 48.9 | 74.0 | -25.1 | 20.1 | 54.0 | -33.9 |
| 24750.00 | H | 26.7 | -28.8 | 50.1 | 74.0 | -23.9 | 21.3 | 54.0 | -32.7 |
| 27225.00 | H | 29.7 | -28.8 | 50.5 | 74.0 | -23.5 | 21.7 | 54.0 | -32.3 |

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.03625) = -28.8\text{dB}$

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Measurement Data

Test Result of (Transmission mode, Highest frequency): PASS

| Frequency (MHz) | Polarity (H/V) | Antenna Factor & Cable Loss (dB/m) | Duty-cycle correction (dB) | Field Strength at 3m – Peak (dB μ V/m) | Limit at 3m – Peak (dB μ V/m) | Margin - Peak (dB) | Field Strength at 3m – Average (dB μ V/m) | Limit at 3m – Average (dB μ V/m) | Margin - Average (dB) |
|-----------------|----------------|------------------------------------|----------------------------|--|-----------------------------------|--------------------|---|--------------------------------------|-----------------------|
| 2483.50 | V | 32.3 | -28.8 | 56.1 | 74.0 | -17.9 | 27.3 | 54.0 | -26.7 |
| 4950.00 | V | -1.3 | -28.8 | 48.3 | 74.0 | -25.7 | 19.5 | 54.0 | -34.5 |
| 7425.00 | V | 2.4 | -28.8 | 53.3 | 74.0 | -20.7 | 24.5 | 54.0 | -29.5 |
| 9900.00 | V | 4.8 | -28.8 | 54.7 | 74.0 | -19.3 | 25.9 | 54.0 | -28.1 |
| 12375.00 | V | 5.4 | -28.8 | 45.6 | 74.0 | -28.4 | 16.8 | 54.0 | -37.2 |
| 14850.00 | V | 11.1 | -28.8 | 46.9 | 74.0 | -27.1 | 18.1 | 54.0 | -35.9 |
| 17325.00 | V | 12.5 | -28.8 | 47.3 | 74.0 | -26.7 | 18.5 | 54.0 | -35.5 |
| 19800.00 | V | 20.7 | -28.8 | 47.7 | 74.0 | -26.3 | 18.9 | 54.0 | -35.1 |
| 22275.00 | V | 22.1 | -28.8 | 48.9 | 74.0 | -25.1 | 20.1 | 54.0 | -33.9 |
| 24750.00 | V | 26.7 | -28.8 | 49.5 | 74.0 | -24.5 | 20.7 | 54.0 | -33.3 |
| 27225.00 | V | 29.7 | -28.8 | 50.7 | 74.0 | -23.3 | 21.9 | 54.0 | -32.1 |

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.03625) = -28.8\text{dB}$

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Radiated Emissions (30MHz – 2.4GHz)

Test Requirement: FCC Part 15 Section 15.209
Test Method: ANSI C63.10
Test Date(s): 2019-07-04
Temperature: 24.0 °C
Humidity: 53.0 %
Mode of Operation: On mode
Tested Voltage: 3Vd.c. ("AA" size battery x 2)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

| Frequency Range [MHz] | Quasi-Peak Limits [μV/m] | Measurement Distance m |
|-----------------------|--------------------------|------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above960 | 500 | 3 |

Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

| Frequency | Polarity (H/V) | Field Strength | Limit | Margin (dB) |
|---|----------------|----------------|-------|-------------|
| | | | | |
| Emissions detected are more than 20 dB below the limit line(s) in 9kHz to 30MHz | | | | |
| | | | | |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 200Hz
VBW = 200Hz

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

| Frequency (MHz) | Polarity (H/V) | Field Strength at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|-----------------|----------------|-------------------------------------|----------------------------|-------------|
| 142.40 | H | 24.1 | 43.5 | -19.4 |
| 205.50 | H | 25.0 | 43.5 | -18.5 |
| 330.50 | H | 30.2 | 46.0 | -15.8 |
| 437.10 | H | 30.8 | 46.0 | -15.2 |
| 567.74 | H | 33.5 | 46.0 | -12.5 |
| 664.68 | H | 34.1 | 46.0 | -11.9 |

| Frequency (MHz) | Polarity (H/V) | Field Strength at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|-----------------|----------------|-------------------------------------|----------------------------|-------------|
| 142.40 | V | 23.8 | 43.5 | -19.7 |
| 205.50 | V | 25.3 | 43.5 | -18.2 |
| 330.50 | V | 30.7 | 46.0 | -15.3 |
| 437.10 | V | 30.1 | 46.0 | -15.9 |
| 567.74 | V | 33.0 | 46.0 | -13.0 |
| 664.68 | V | 34.7 | 46.0 | -11.3 |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Frequency range of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249
Test Method: ANSI C63.10 Clause 6.10
Test Date(s): 2019-07-04
Temperature: 24.0 °C
Humidity: 53.0 %
Mode of Operation: Transmission mode
Tested Voltage: 3Vd.c.("AA" size battery x 2)

Test Method:

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

Limits for Frequency range of Fundamental Emission:

| Frequency [MHz] | FCC Limits [MHz] |
|--------------------|---------------------|
| 2405.00 – 2475.00 | 2400 – 2483.5 |

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

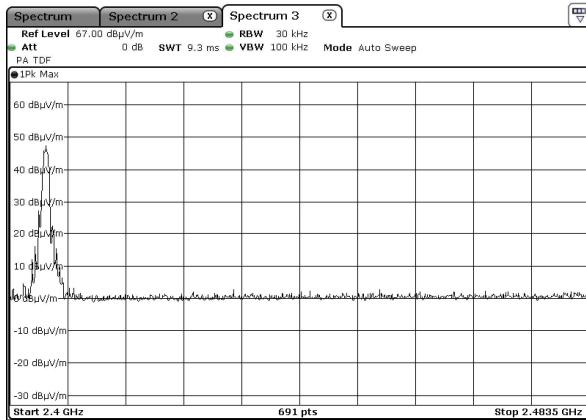


TEST REPORT No: (5219)161-0041

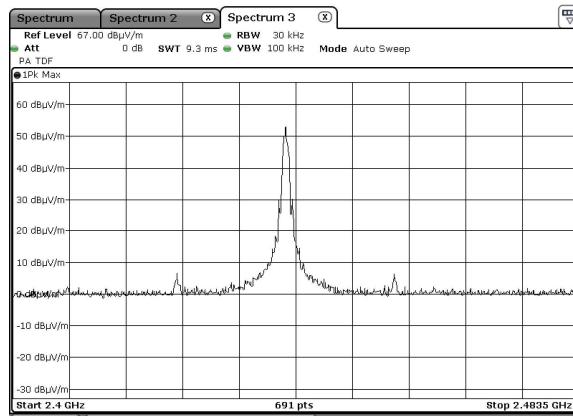
Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS

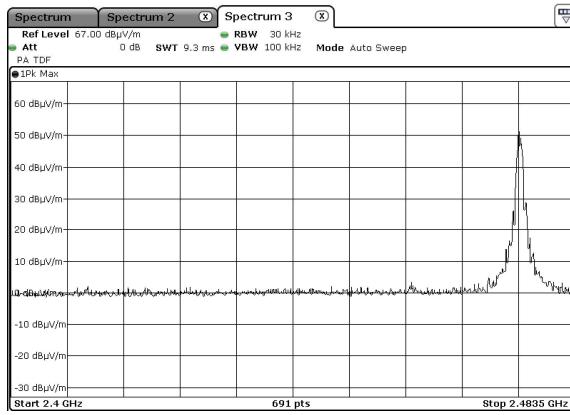
Lowest Frequency – 2405.00MHz



Middle Frequency – 2440.00MHz



Highest Frequency – 2475.00MHz



BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

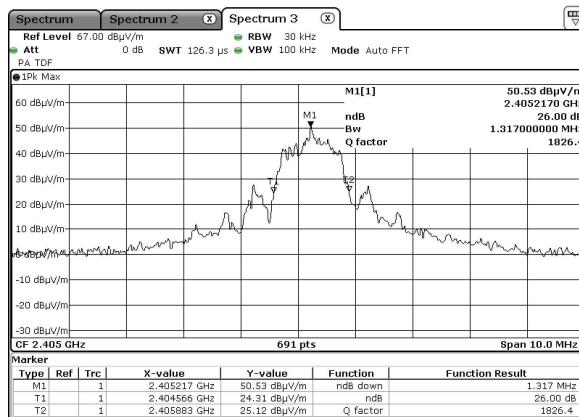


TEST REPORT No: (5219)161-0041

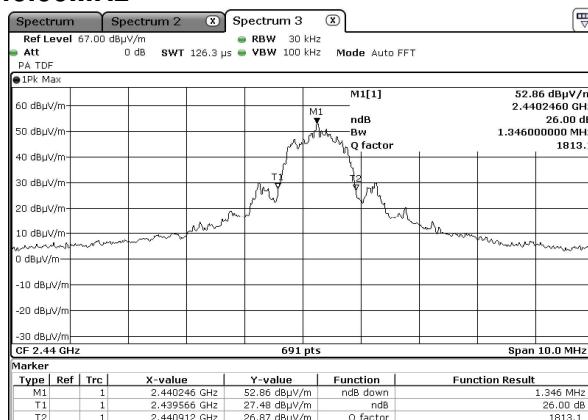
Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS

Lowest Frequency – 2405.00MHz



Middle Frequency – 2440.00MHz



Highest Frequency – 2475.00MHz



BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
 Tel: +852 2331 0888
 Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 25 pulses (0.145msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered 25×0.145 per 100msec = 3.625% duty cycle.

Remarks:

Duty Cycle Correction = $20 \log(0.03625) = -28.8 \text{ dB}$

The following figures [Figure A] show the characteristics of the pulse train for one of these functions.

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

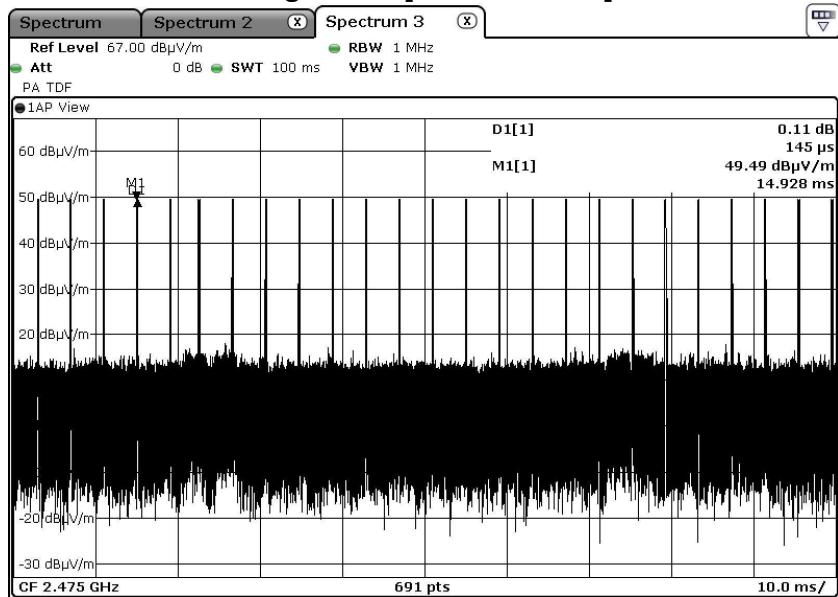
This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Measurement Data :

Figure A [Pulse Train]



BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Photographs of EUT

Front View of the product



Rear View of the product



Top View of the product



Bottom View of the product



Side View of the product



Side View of the product



Battery compartment



Battery Cover



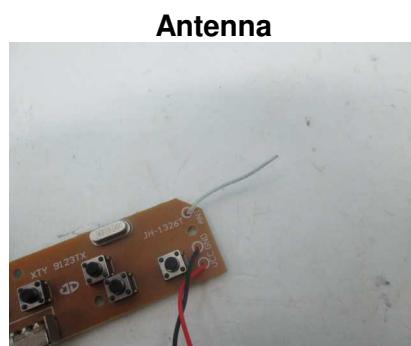
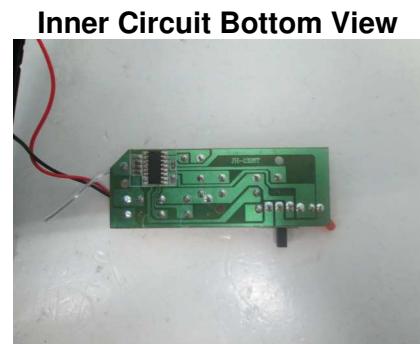
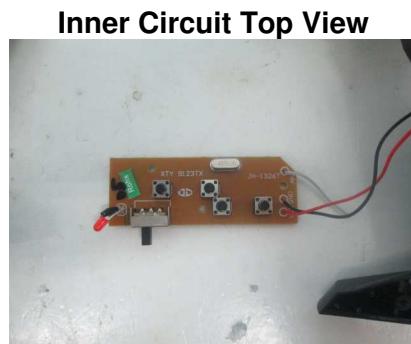
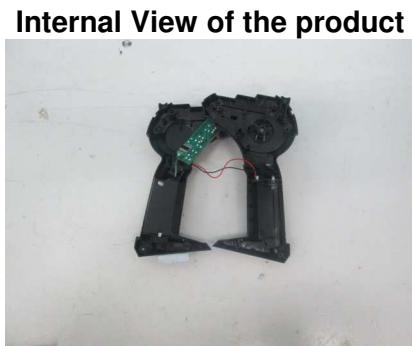
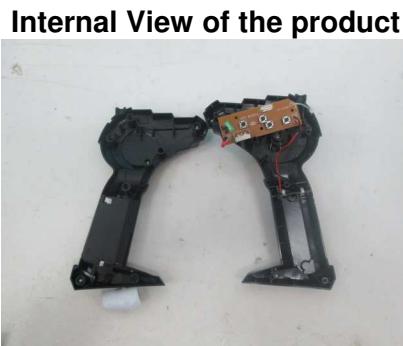
BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Photographs of EUT



BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TEST REPORT No: (5219)161-0041

Measurement of Radiated Emission Test Set Up



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

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.