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APPLICATION CERTIFICATION On Behalf of Bedford, Freeman & Worth Publishing Group, LLC

IOLab Dongle Model No.: IOL15B

FCC ID: 2AF5F-IOL15B

Prepared for : Bedford, Freeman & Worth Publishing Group, LLC Address : 175 Fifth Avenue, New York, NY 10010 United States

Prepared by : ACCURATE TECHNOLOGY CO., LTD

Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

P.R. China

Tel: (0755) 26503290 Fax: (0755) 26503396

Report Number : ATE20152072
Date of Test : September 24, 2015
Date of Report : October 8, 2015

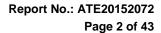




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The Requirement43

ANTENNA REQUIREMENT......43

9.1.

9.2.



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Test Report Certification

Applicant : Bedford, Freeman & Worth Publishing Group, LLC

Manufacturer Shenzhen C&D Electronics Co., Ltd

EUT Description : IOLab Dongle

(A) Model No.: IOL15B (B) Trade Mark: Macmillan

(C) Power Supply: DC 5V

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249: 2015 ANSI C63.10: 2013

The EUT was tested according to FCC 47CFR 15.249 for compliance to FCC 47CFR 15.249 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test :	September 24, 2015
Date of Report:	October 8, 2015
Prepared by:	0
	Bob Ward
<u>-</u>	(Bob Wang, Engineer)
Approved & Authorized Signer :	Lemil
	(Sean Lu, Manager)



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1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : IOLab Dongle

Model Number : IOL15B Trade Mark : Macmillan

Power Supply : DC 5V (Power by USB port)

Modulation: : GFSK

Frequency Range : 2.402-2.480GHz

Number of Channels : 79

Type of Antenna : PCB Antenna

Max antenna gain : 0dBi

Applicant : Bedford, Freeman & Worth Publishing Group, LLC Address : 175 Fifth Avenue, New York, NY 10010 United States

Manufacturer : Shenzhen C&D Electronics Co., Ltd

Address : The 9th floor of 9th A Building Baoneng technology park,

Longhua Town, BaoAn District, ShenZhen, Guangdong,

China

Date of sample

received

: September 21, 2015

Date of Test : September 24, 2015

1.2. Special Accessory and Auxiliary Equipment

N/A



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1.3.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee

for Laboratories

The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2

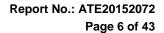
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2

(Above 1GHz)

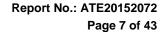




2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Туре	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 11, 2015	Jan. 10, 2016
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 11, 2015	Jan. 10, 2016
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2015	Jan. 10, 2016
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 11, 2015	Jan. 10, 2016
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2015	Jan. 14, 2016
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2015	Jan. 14, 2016
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2015	Jan. 14, 2016
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2015	Jan. 14, 2016
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 11, 2015	Jan. 10, 2016
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 11, 2015	Jan. 10, 2016
Highpass Filter	Wainwright	WHKX3.6/18	N/A	Jan. 11, 2015	Jan. 10, 2016
	Instruments	G-10SS			
Band Reject Filter	Wainwright	WRCG2400/2	N/A	Jan. 11, 2015	Jan. 10, 2016
	Instruments	485-2375/2510			
		-60/11SS			





3. OPERATION OF EUT DURING TESTING

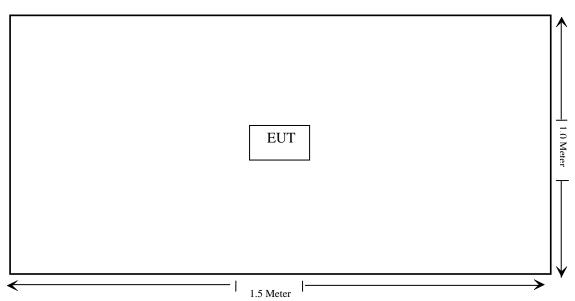
3.1.Operating Mode

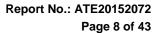
The mode is used: **Transmitting mode**

Low Channel: 2402MHz Middle Channel: 2450MHz High Channel: 2480MHz

3.2.Configuration and peripherals

Block Diagram of Test Setup







4. TEST PROCEDURES AND RESULTS

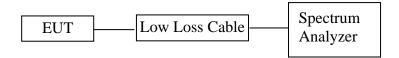
FCC Rules	Description of Test	Result		
Section 15.215(c)	20dB Bandwidth	Compliant		
Section 15.249(d)	Band Edge Compliance Test	Compliant		
Section 15.205(a), Section 15.209(a), Section 15.249, Section 15.35	Radiated Spurious Emission Test	Compliant		
Section 15.207	AC Power Line Conducted Emission Test	Compliant		
Section 15.203	Antenna Requirement	Compliant		





5. 20DB BANDWIDTH MEASUREMENT

5.1.Block Diagram of Test Setup



5.2. The Requirement For Section 15.215(c)

The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset while the long-term distribution appears evenly distributed.

5.3. Operating Condition of EUT

- 5.3.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.3.2. Turn on the power of all equipment.
- 5.3.3.Let the EUT work in TX modes measure it. The transmit frequency is 2402, 2450, 2480MHz.

5.4.Test Procedure

- 5.4.1. Place the EUT on the table and set it in transmitting mode.
- 5.4.2.Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 5.4.3.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz, Detector function=peak, Trace=max hold, Sweep=auto.
- 5.4.4.Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

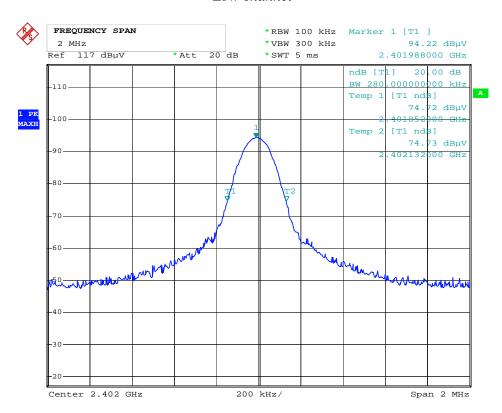


5.5.Test Result

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)				
Low	2402	0.28				
Mid	2450	0.28				
High	2480	0.29				

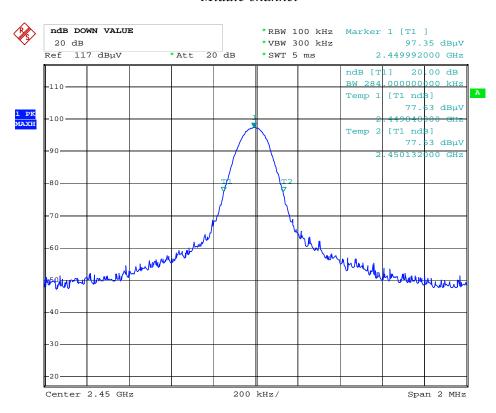
The spectrum analyzer plots are attached as below.

Low channel

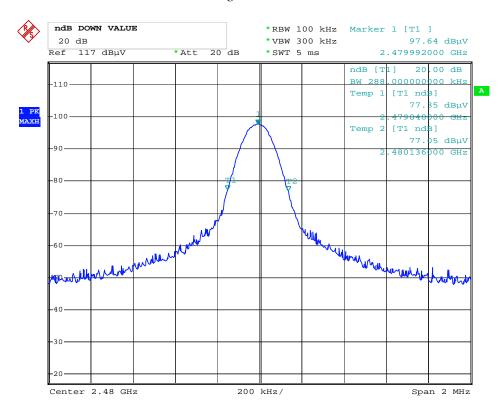




Middle channel



High channel

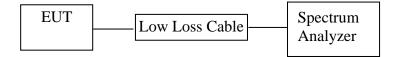




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6. BAND EDGE COMPLIANCE TEST

6.1.Block Diagram of Test Setup



6.2. The Requirement For Section 15.249

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

6.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT and simulator as shown as Section 6.1.
- 6.4.2. Turn on the power of all equipment.
- 6.4.3.Let the EUT work in TX modes measure it. The transmit frequency is 2402, 2480 MHz.

6.5. Test Procedure

Conducted Band Edge:

6.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.



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6.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

Radiated Band Edge:

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX modes then measure it.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz
- 3.All modes of operation were investigated and the worst-case emissions are reported.

6.6.Test Result

Pass



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Site: 2# Chamber

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Radiated Band Edge Result



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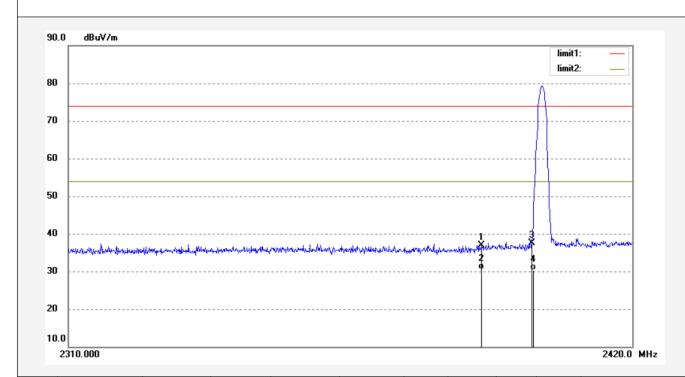
F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Job No.: ricky2015 #174 Polarization: Horizontal Standard: FCC PK Power Source: DC 5V

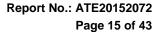
Test item: Radiation Test Date: 15/09/24/
Temp.(C)/Hum.(%) 23 C / 48 % Time: 16/56/30

EUT: IOLab Dongle Engineer Signature: Ricky
Mode: TX 2402MHz Distance: 3m

Model: IOL15B Manufacturer: C&D



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.88	-7.96	36.92	74.00	-37.08	peak			
2	2390.000	38.54	-7.96	30.58	54.00	-23.42	AVG			
3	2400.000	45.50	-7.93	37.57	74.00	-36.43	peak			
4	2400.000	38.22	-7.93	30.29	54.00	-23.71	AVG			







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Job No.: ricky2015 #173 Standard: FCC PK Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

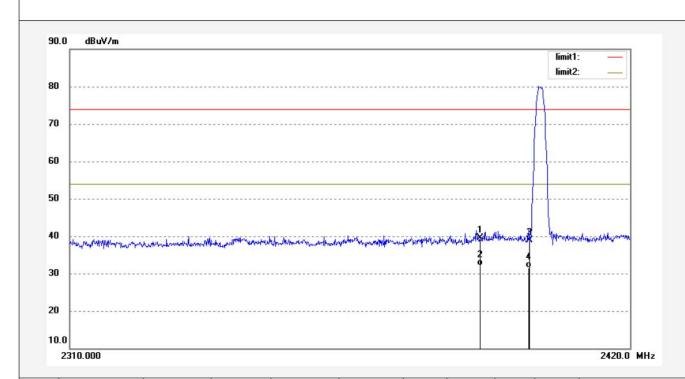
EUT: IOLab Dongle Mode: TX 2402MHz

Model: IOL15B Manufacturer: C&D Polarization: Vertical Power Source: DC 5V

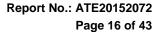
Date: 15/09/24/ Time: 16/54/18

Engineer Signature: Ricky

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	47.37	-7.96	39.41	74.00	-34.59	peak			
2	2390.000	40.12	-7.96	32.16	54.00	-21.84	AVG			
3	2400.000	46.77	-7.93	38.84	74.00	-35.16	peak			
4	2400.000	39.52	-7.93	31.59	54.00	-22.41	AVG			



Site: 2# Chamber

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Polarization: Horizontal Power Source: DC 5V

Date: 15/09/24/ Time: 16/52/50

Engineer Signature: Ricky

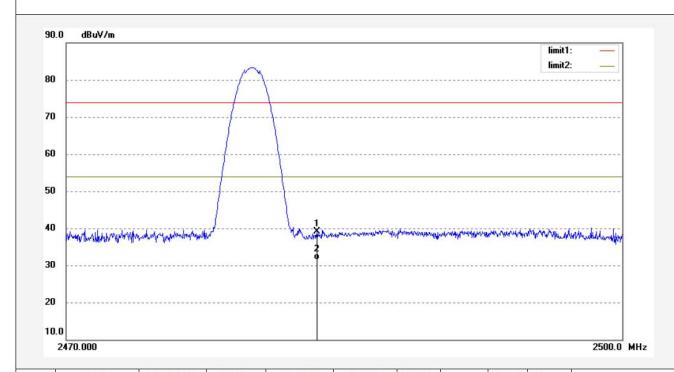
Distance: 3m

Job No.: ricky2015 #172 Standard: FCC PK Test item: Radiation Test

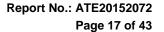
Temp.(C)/Hum.(%) 23 C / 48 %

EUT: IOLab Dongle Mode: TX 2480MHz Model: IOL15B

Model: IOL15B Manufacturer: C&D



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.94	-7.75	39.19	74.00	-34.81	peak			
2	2483.500	39.21	-7.75	31.46	54.00	-22.54	AVG			





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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: ricky2015 #171 Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

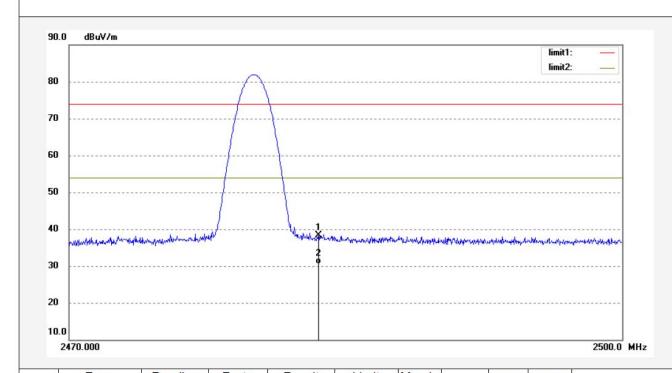
EUT: IOLab Dongle
Mode: TX 2480MHz
Model: IOL15B
Manufacturer: C&D

Polarization: Vertical Power Source: DC 5V

Date: 15/09/24/ Time: 16/51/21

Engineer Signature: Ricky

Distance: 3m



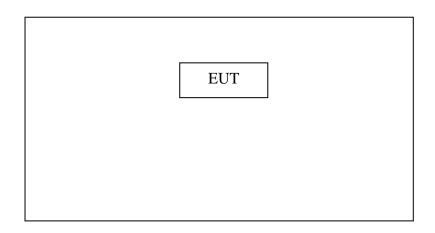
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	200 - 120 -	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2483.500	45.96	-7.75	38.21	74.00	-35.79	peak				
2	2483.500	38.25	-7.75	30.50	54.00	-23.50	AVG				



7. RADIATED SPURIOUS EMISSION TEST

7.1.Block Diagram of Test Setup

7.1.1.Block diagram of connection between the EUT and peripherals



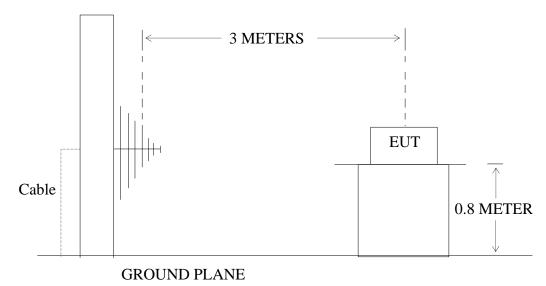
Setup: Transmitting mode

(EUT: IOLab Dongle)

7.1.2.Semi-Anechoic Chamber Test Setup Diagram

Below 1GHz

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS

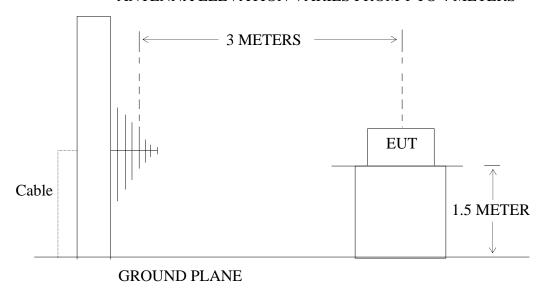




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Above 1GHz

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



7.2. The Limit For Section 15.249

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).



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7.3. Restricted bands of operation

7.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	$\binom{2}{}$
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

7.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.5. Operating Condition of EUT

- 7.5.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.5.2. Turn on the power of all equipment.
- 7.5.3.Let the EUT work in TX modes measure it. The transmit frequency is 2402, 2450, 2480MHz.

²Above 38.6



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7.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The frequency range from 30MHz to 25000MHz is checked. Result = Reading + Corrected Factor Where Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.



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7.7. The Field Strength of Radiation Emission Measurement Results **PASS.**

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain

				Ther Guin		
Frequency	Reading	Factor	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	$(dB\mu V/m)$ $(dB\mu V/m)$		
	QP	(dB)	QP	QP	QP	
						Vertical
						Vertical
						Vertical
						Horizontal
						Horizontal
						Horizontal

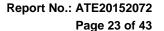
For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency	Reading(dBµV/m)		Factor	Result(dBµV/m)		Limit(dBµV/m)		Margin(dBμV/m)		Polarizati
(MHz)	AV	PEAK	Corr. (dB)	AV	PEAK	AV	PEAK	AV	PEAK	on
-	-	-	1	1	-	1	-	-	-	Vertical
-	-	_	-	1	-	1	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

- 2. *: Denotes restricted band of operation.
- 3. The EUT is tested radiation emission at Low, Middle, High channel in three axes. The worst emissions are reported in all channels.
 - 4. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.





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Job No.: ricky 2015 #834 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: IOLab Dongle Mode: TX 2402MHz Model: IOL15B

IOLab Dongle

Manufacturer: C&D

Class B 3M Radiated Power Source: DC 5V diation Test Date: 15/09/24/

Time: 8/40/13

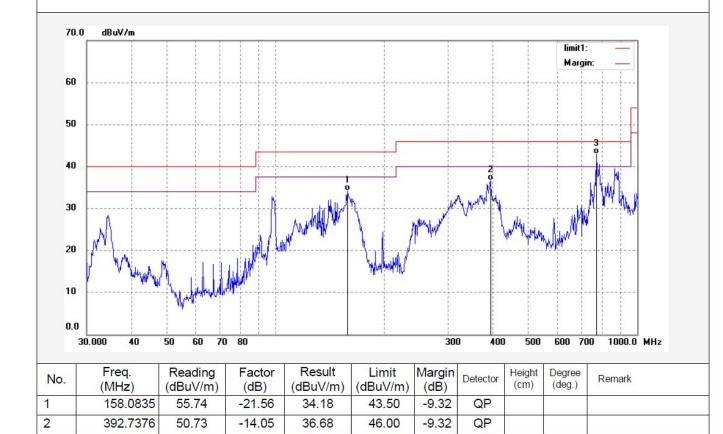
Polarization:

Engineer Signature: Ricky

Vertical

Distance: 3m

Note: Report No.:ATE20152072



3

771.0475

49.39

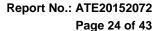
-6.39

43.00

46.00

-3.00

QP







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Job No.: ricky 2015 #835

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: IOLab Dongle
Mode: TX 2402MHz
Model: IOL15B
Manufacturer: C&D

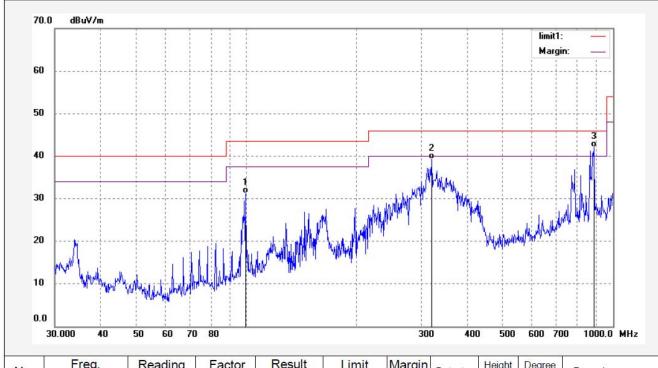
Polarization: Horizontal

Power Source: DC 5V

Date: 15/09/24/ Time: 8/41/55

Engineer Signature: Ricky

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	99.4177	52.91	-21.67	31.24	43.50	-12.26	QP			
2	320.3306	55.10	-15.78	39.32	46.00	-6.68	QP			
3	887.3978	46.46	-4.39	42.07	46.00	-3.93	QP			



Site: 1# Chamber

Tel:+86-0755-26503290



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n,P.R.China Fax:+86-0755-26503396
Polarization: Horizontal

Power Source: DC 5V Date: 15/09/24/

Engineer Signature: Ricky

Distance: 3m

Time: 8/43/22

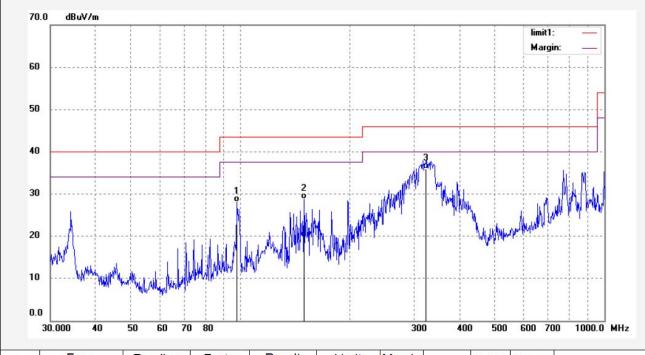
Job No.: ricky 2015 #836

Standard: FCC Class B 3M Radiated

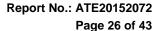
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: IOLab Dongle
Mode: TX 2450MHz
Model: IOL15B
Manufacturer: C&D



										A.
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	97.6864	49.69	-21.59	28.10	43.50	-15.40	QP			
2	149.4416	51.05	-22.30	28.75	43.50	-14.75	QP			
3	323.7250	51.61	-15.64	35.97	46.00	-10.03	QP			





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Job No.: ricky 2015 #837

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

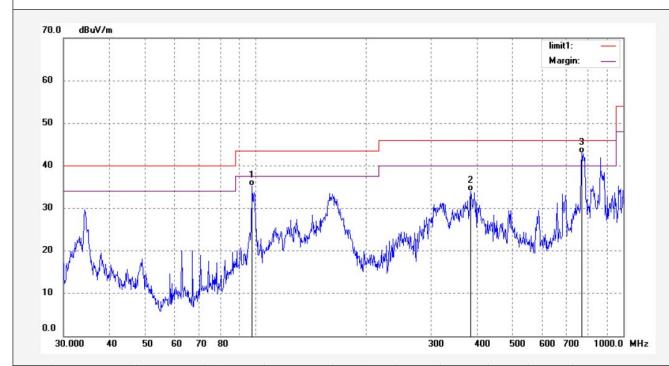
EUT: IOLab Dongle
Mode: TX 2450MHz
Model: IOL15B
Manufacturer: C&D

Polarization: Vertical Power Source: DC 5V

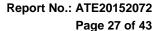
Date: 15/09/24/ Time: 8/44/29

Engineer Signature: Ricky

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	97.6864	56.88	-21.59	35.29	43.50	-8.21	QP			
2	384.5447	48.17	-14.13	34.04	46.00	-11.96	QP			
3	771.0475	49.34	-6.39	42.95	46.00	-3.05	QP			



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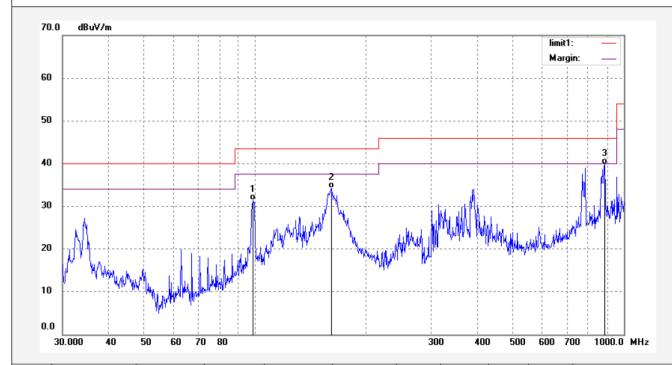
F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Job No.: ricky 2015 #838 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 5V

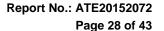
Test item: Radiation Test Date: 15/09/24/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 8/45/35

EUT: IOLab Dongle Engineer Signature: Ricky Mode: TX 2480MHz Distance: 3m

Model: IOL15B Manufacturer: C&D



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	53.02	-21.64	31.38	43.50	-12.12	QP			
2	160.8852	55.48	-21.25	34.23	43.50	-9.27	QP			
3	887.3978	44.21	-4.39	39.82	46.00	-6.18	QP			



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Polarization: Horizontal

Power Source: DC 5V

Date: 15/09/24/ Time: 8/46/34

Engineer Signature: Ricky

Distance: 3m

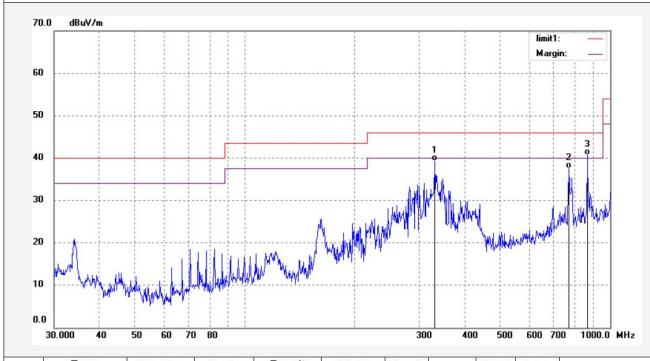
Job No.: ricky 2015 #839

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: IOLab Dongle Mode: TX 2480MHz Model: IOL15B Manufacturer: C&D



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	330.6220	54.70	-15.34	39.36	46.00	-6.64	QP			
2	771.0475	43.89	-6.39	37.50	46.00	-8.50	QP			
3	865.8384	45.48	-4.77	40.71	46.00	-5.29	QP			



Site: 2# Chamber

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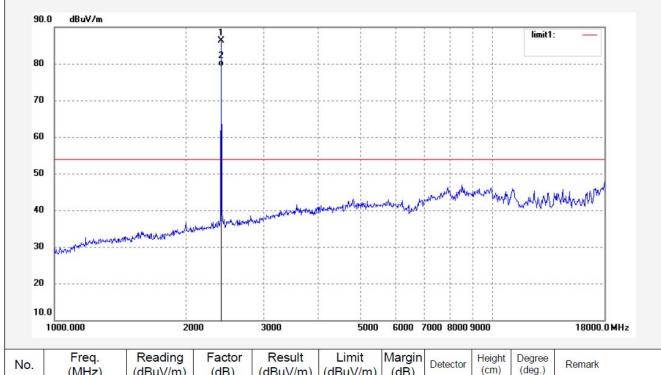
F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Polarization: Horizontal Job No.: ricky2015 #165 Standard: FCC Class B 3M Radiated Power Source: DC 5V

Test item: Radiation Test Date: 15/09/24/ Time: 16/39/22 Temp.(C)/Hum.(%) 23 C / 48 %

EUT: IOLab Dongle Engineer Signature: Ricky Mode: TX 2402MHz Distance: 3m

Model: IOL15B Manufacturer: C&D



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	94.22	-7.93	86.29	114.00	-27.71	peak			
2	2402.000	87.23	-7.93	79.30	94.00	-14.70	AVG			



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Job No.: ricky2015 #166 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: IOLab Dongle Mode: TX 2402MHz

Model: IOL15B Manufacturer: C&D

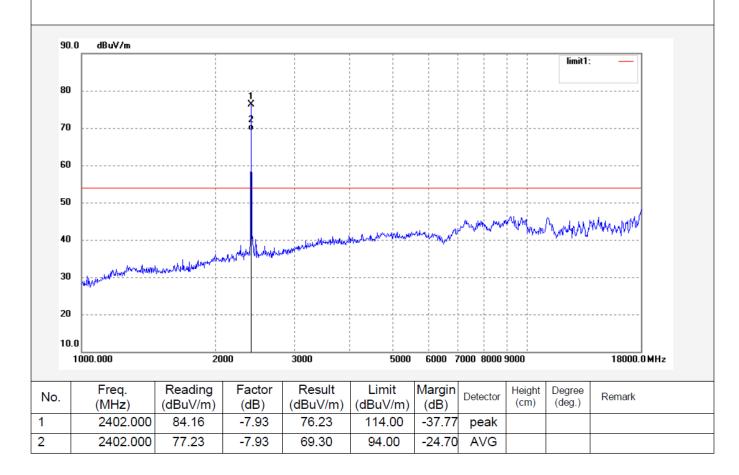
Note: Report NO.:ATE20152072

Polarization: Vertical Power Source: DC 5V

Date: 15/09/24/ Time: 16/41/18

Engineer Signature: Ricky

Distance: 3m





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Job No.: ricky2015 #167

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: IOLab Dongle Mode: TX 2450MHz Model: IOL15B

Manufacturer: C&D

Note: Report NO.:ATE20152072

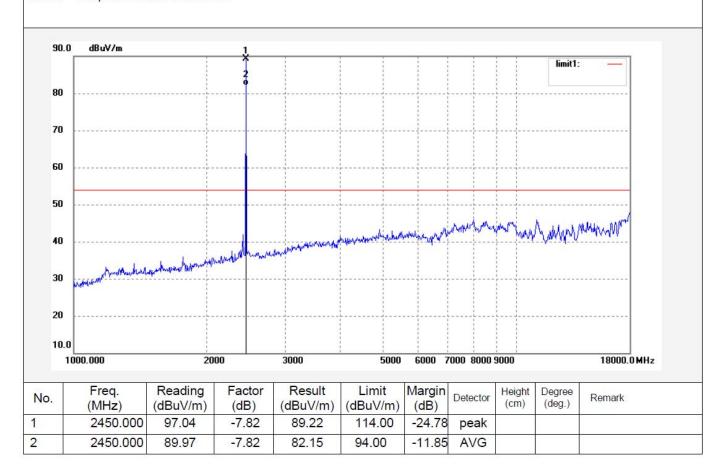
Polarization: Horizontal

Power Source: DC 5V

Date: 15/09/24/ Time: 16/43/22

Engineer Signature: Ricky

Distance: 3m





Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20152072

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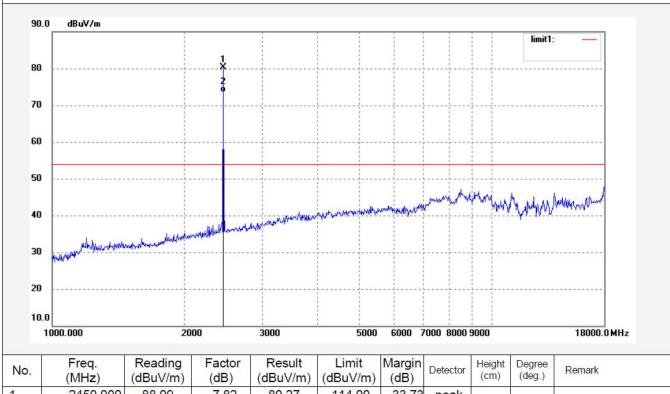
Job No.:ricky2015 #168Polarization:VerticalStandard:FCC Class B 3M RadiatedPower Source:DC 5V

Test item: Radiation Test Date: 15/09/24/
Temp.(C)/Hum.(%) 23 C / 48 % Time: 16/45/30

EUT: IOLab Dongle Engineer Signature: Ricky
Mode: TX 2450MHz Distance: 3m

Model: IOL15B

Manufacturer: C&D







F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20152072

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Job No.: ricky2015 #169 Polarization: Vertical Power Source: DC 5V Standard: FCC Class B 3M Radiated

> Date: 15/09/24/ Time: 16/47/36

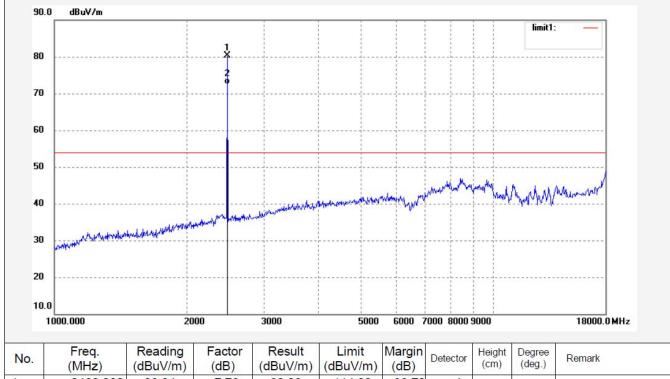
Engineer Signature: Ricky

Distance: 3m

Test item: Radiation Test Temp.(C)/Hum.(%) 23 C / 48 %

EUT: **IOLab Dongle** Mode: TX 2480MHz

Model: IOL15B Manufacturer: C&D







F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Time: 16/49/25

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20152072

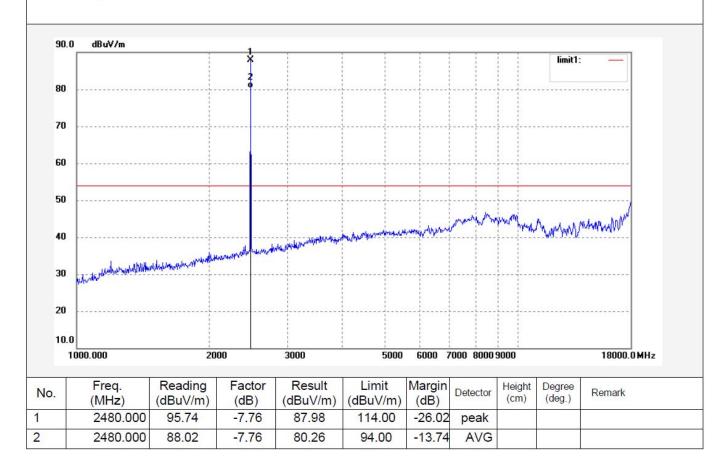
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Job No.: ricky2015 #170 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 5V

Test item: Radiation Test Date: 15/09/24/

Temp.(C)/Hum.(%) 23 C / 48 % EUT: **IOLab Dongle** Engineer Signature: Ricky Mode: TX 2480MHz Distance: 3m

Model: IOL15B Manufacturer: C&D

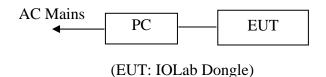




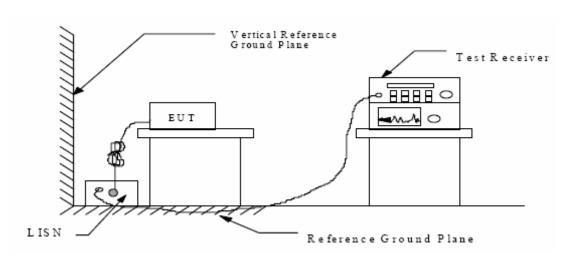
8. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

8.1.Block Diagram of Test Setup

8.1.1.Block diagram of connection between the EUT and simulators



8.1.2. Shielding Room Test Setup Diagram



(EUT: IOLab Dongle)

8.2. The Emission Limit

8.2.1. Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency	Limit dB(μV)						
(MHz)	Quasi-peak Level	Average Level					
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *					
0.50 - 5.00	56.0	46.0					
5.00 - 30.00	60.0	50.0					

^{*} Decreases with the logarithm of the frequency.



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8.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to

maximize its emission characteristics in normal application.

8.3.1.IOLab Dongle (EUT)

Model Number : IOL15B Serial Number : N/A

Manufacturer : Shenzhen C&D Electronics Co., Ltd

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 7.1.

8.4.2.Turn on the power of all equipment.

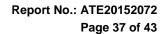
8.4.3. Let the EUT work in On mode measure it.

8.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines 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 C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.



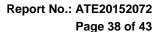


8.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test: Se EUT: IO Model No.: IO Test Mode: On MEASUREMENT 2015-9-24 10				0% C 120V/60Hz				
Frequency MHz	Level dBµV		Limit dBµV	_	Detec	tor	Line	PE
0.150000 0.202000 0.536000	43.20	10.6		20.3	QP		N N N	GND GND GND
MEASUREMENT	RESULT	: "XH03	31313_1	fin2"				
2015-9-24 10 Frequency MHz			Limit dBµV		Detec	tor	Line	PE
0.150000 0.208000 0.524000	38.40 31.30 31.20				AV		N N N	GND GND GND
MEASUREMENT	RESULT	: "XH03	1314_f	in"				
2015-9-24 10 Frequency MHz			Limit dBµV	Margin dB	Detect	tor	Line	PE
	50.50 32.20 34.80	11.0	66 60 56	27.9	ÕР		L1 L1 L1	GND GND GND
MEASUREMENT	RESULT	: "XH03	1314_f	in2"				
2015-9-24 10 Frequency MHz	:51 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detec	tor	Line	PE
0.150000 0.346000 0.526000	37.90 32.50 30.30	10.3 11.1 11.5	56 49 46	18.1 16.6 15.7	AV AV AV		L1 L1 L1	GND GND GND





EUT: IOLab Dongle Humidity: 50% IOL15B Power Supply: AC 240V/60Hz Model No.: Test Mode: On Test Engineer: Ricky MEASUREMENT RESULT: "XH031312 fin" 2015-9-24 10:45 Frequency Level Transd Limit Margin Detector Line PΕ MHz dBuV dΒ dBuV dB 0.152000 49.10 10.4 16.8 QΡ 66 Ν GND 0.348000 32.50 11.1 59 26.5 QΡ Ν GND

56

25°C

Ν

GND

Temperature:

20.5

QΡ

MEASUREMENT RESULT: "XH031312 fin2"

11.5

35.50

0.526000

Date of Test: September 24, 2015

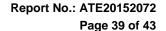
2015-9-24 10: Frequency MHz			Limit dBµV	Margin dB	Detector	Line	PE
	31.30	10.3 11.1 11.5	49	18.1 17.8 14.7	AV	N N N	GND GND GND

MEASUREMENT RESULT: "XH031311_fin"											
2015-9-24 10 Frequency MHz			Limit dBµV	Margin dB	Detector	Line	PE				
	51.20 48.30 34.70	10.3 10.5 11.5	65	14.8 16.6 21.3	~	L1 L1 L1	GND GND GND				

MEASUREMENT RESULT: "XH031311 fin2"

2015-9-24 10:42										
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ			
MHz	dΒμV	dB	dΒμV	dB						
0.150000	38.20	10.3	56	17.8	AV	L1	GND			
0.346000	32.50	11.1	49	16.6	AV	L1	GND			
0.530000	30.20	11.5	46	15.8	AV	L1	GND			

Emissions attenuated more than 20 dB below the permissible value are not reported. The spectral diagrams are attached as below.





CONDUCTED EMISSION STANDARD FCC 15B

EUT: IOLab Dongle M/N:IOL15B

Manufacturer: Shenzhen C&D Electronics Co., Ltd

Operating Condition: On

Test Site: 2#Shielding Room

Operator: Ricky
Test Specification: N 120V/60Hz

Comment: Report No.:ATE20152072 2015-9-24 / 10:45:50 Start of Test:

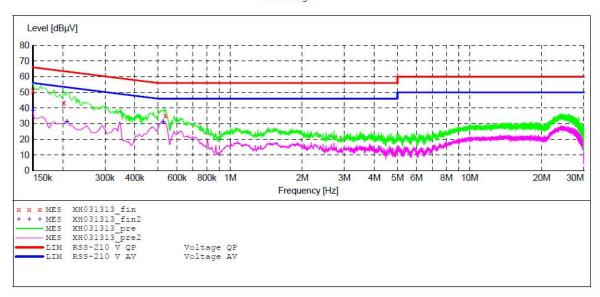
SCAN TABLE: "V 150K-30MHz fin"

_SUB_STD_VTERM2 1.70 Short Description:

Step IF Start Stop Detector Meas. Transducer Bandw. Time

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)

Average

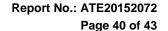


MEASUREMENT RESULT: "XH031313 fin"

13	2015-9-24 10	:48						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dΒμV	dB	dBµV	dB			
	0.150000	51.10	10.3	66	14.9	QP	N	GND
	0.202000	43.20	10.6	64	20.3	QP	N	GND
	0.536000	35.10	11.5	56	20.9	QP	N	GND

MEASUREMENT RESULT: "XH031313 fin2"

2015-9-24 10	:48						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.150000	38.40	10.3	56	17.6	AV	N	GND
0.208000	31.30	10.7	53	22.0	AV	N	GND
0.524000	31.20	11.5	46	14.8	AV	N	GND





CONDUCTED EMISSION STANDARD FCC 15B

IOLab Dongle EUT: M/N:IOL15B

Manufacturer: Shenzhen C&D Electronics Co., Ltd

Operating Condition: On

Test Site: 2#Shielding Room

Operator: Ricky

Test Specification: L 120V/60Hz

Report No.:ATE20152072 Comment: Start of Test: 2015-9-24 / 10:48:41

SCAN TABLE: "V 150K-30MHz fin"

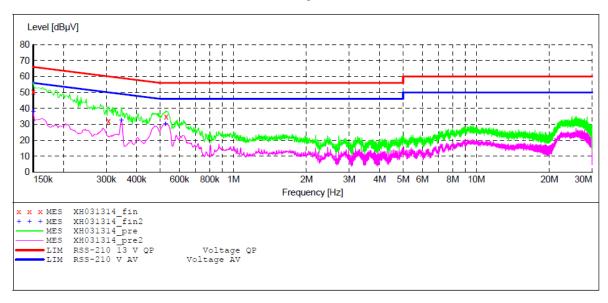
Short Description:

Start Stop Step Detector Meas. IF Transducer

Time Bandw.

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kH QuasiPeak 1.0 s 4.5 kHz 9 kHz LISN (ESH3-Z5)

Average

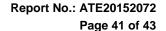


MEASUREMENT RESULT: "XH031314 fin"

2015-9-24 10	:51						
Frequency				Margin	Detector	Line	PΕ
MHz	dΒμV	dB	dΒμV	dB			
0.150000	50.50	10.3	66	15.5	QP	L1	GND
0.306000	32.20	11.0	60	27.9	QP	L1	GND
0.528000	34.80	11.5	56	21.2	QP	L1	GND

MEASUREMENT RESULT: "XH031314 fin2"

2015-9-24 10	:51						
Frequency MHz	Level dBuV		Limit dBuV	Margin dB	Detector	Line	PE
11112	αΔμν	ab	αΔμν	Q.D			
0.150000	37.90	10.3	56	18.1	AV	L1	GND
0.346000	32.50	11.1	49	16.6	AV	L1	GND
0.526000	30.30	11.5	46	15.7	ΔV	T.1	GND





CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: IOLab Dongle M/N:IOL15B

Manufacturer: Shenzhen C&D Electronics Co., Ltd

Operating Condition: On

Test Site: 2#Shielding Room

Operator: Ricky
Test Specification: N 240V/60Hz

Report No.:ATE20152072 Comment: Start of Test: 2015-9-24 / 10:43:06

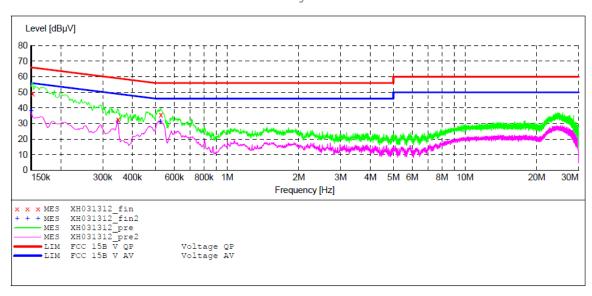
SCAN TABLE: "V 150K-30MHz fin"

_SUB_STD_VTERM2 1.70 Short Description:

Start Stop Step Detector Meas. IF Transducer

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kH Time Bandw. 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)

Average



MEASUREMENT RESULT: "XH031312 fin"

2015-9-24 10	:45						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
				4.5.0			
0.152000	49.10	10.4	66	16.8	QP	N	GND
0.348000	32.50	11.1	59	26.5	QP	N	GND
0.526000	35.50	11.5	56	20.5	QP	N	GND

MEASUREMENT RESULT: "XH031312 fin2"

20	15-9-24 10	:45						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
	MHz	dΒμV	dB	dΒμV	dB			
	0.150000	37.90	10.3	56	18.1	AV	N	GND
	0.346000	31.30	11.1	49	17.8	AV	N	GND
	0.524000	31.30	11.5	46	14.7	AV	N	GND



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ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

IOLab Dongle M/N:IOL15B

Manufacturer: Shenzhen C&D Electronics Co., Ltd

Operating Condition: On

Test Site: 2#Shielding Room

Operator: Ricky

Test Specification: L 240V/60Hz

Report No.:ATE20152072 Comment: Start of Test: 2015-9-24 / 10:40:21

SCAN TABLE: "V 150K-30MHz fin"

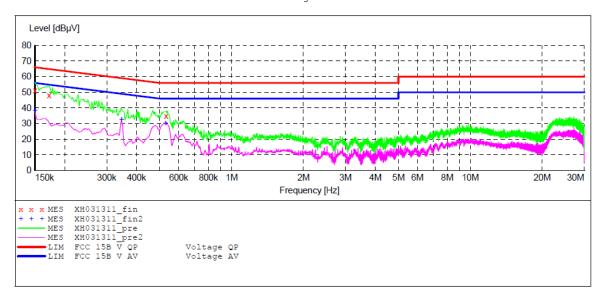
_SUB_STD_VTERM2 1.70 Short Description:

Detector Meas. Start Stop Step IF Transducer

Bandw. Time

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)

Average



MEASUREMENT RESULT: "XH031311 fin"

2015-9-24 10	:42						
Frequency MHz	Level dBµV		Limit dBµV		Detector	Line	PE
0.150000	51.20	10.3	66	14.8	QP	L1	GND
0.172000	48.30	10.5	65	16.6	QP	L1	GND
0.532000	34.70	11.5	56	21.3	OP	T.1	GND

MEASUREMENT RESULT: "XH031311 fin2"

2015-9-24 10	:42						
Frequency MHz	Level dBuV		Limit dBuV	Margin dB	Detector	Line	PE
11112	αΣμι	42	αΣμι	42			
0.150000	38.20	10.3	56	17.8	AV	L1	GND
0.346000	32.50	11.1	49	16.6	AV	L1	GND
0.530000	30.20	11.5	46	15.8	AV	L1	GND



9. ANTENNA REQUIREMENT

9.1.The Requirement

According to Section 15.203, 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.

9.2. Antenna Construction

Device is equipped with Integral antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.

