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APPLICATION CERTIFICATION FCC Part 15C On Behalf of Xiamen Prima Technology Inc

Bluetooth module Model No.: BT03B110

FCC ID: 2ADID-BT03B110

Prepared for : Xiamen Prima Technology Inc.

Address : No.178, Xinfeng Road, Xiamen, Fujian, P.R. China

Prepared by : ACCURATE TECHNOLOGY CO., LTD

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Report No. : ATE20160894

Date of Test : May 13, 2016--Jun 29, 2016

Date of Report: Jun 30, 2016

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Test Report Certification

Applicant : Xiamen Prima Technology Inc Manufacturer : Xiamen Prima Technology Inc

EUT Description : Bluetooth module

(A) MODEL NO.: BT03B110

(B) Trade Mark: PRIMA

(C) Voltage: DC $3.3 \sim 5.5$ V

Measurement Procedure Used:

Data of Toot

FCC Rules and Regulations Part 15 Subpart C Section 15.247 ANSI C63.10: 2013

The EUT was tested according to DTS test procedure of Apr 08, 2016 KDB558074 D01 DTS Meas Guidance v03r05 for compliance to FCC 47CFR 15.247 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 15.247 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.

May 40 0040 Iva 00 0040

Date of Test.	May 13, 2010Juli 29, 2010
Date of Report:	Jun 30, 2016
Prepared by :	(Tim.zhang, Engineer)
Approved & Authorized Signer:	(Sean Liu, Manager)





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1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT Bluetooth module

Model Number BT03B110

Bluetooth version BT V4.0 Dual Mode

This report is for BT V4.0 LE mode

Frequency Range 2402MHz-2480MHz

Number of Channels 40 for BT V4.0 LE

79 for BT classic mode

Antenna Gain 2dBi

Antenna type PIFA Antenna

Trade Name **PRIMA**

Test Voltage DC 3.3~5.5V

Modulation mode GFSK for BT V4.0 LE

GFSK, π /4 DQPSK, 8DPSK for BT classic mode

Applicant Xiamen Prima Technology Inc

Address No.178, Xinfeng Road, Xiamen, Fujian, P.R. China.

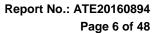
Manufacturer Xiamen Prima Technology Inc

Wanlida, Industry Zone Building C, Nanjing Fujian, P.R. Address

China.

Date of sample received: May 13, 2016

Date of Test May 13, 2016--Jun 29, 2016





1.2. Carrier Frequency of Channels

Channel	Frequeeny (MHz)	Channel	Frequeeny (MHz)	Channel	Frequeeny (MHz)	Channe 1	Frequeeny (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.3. Special Accessory and Auxiliary Equipment

PC Manufacturer: LENOVO

M/N: 4290-RT8

S/N: R9-FW93G 11/08



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1.4.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

1.5.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2

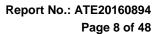
(9kHz-30MHz)

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. 10, 2016	Jan. 09, 2017
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 10, 2016	Jan. 09, 2017
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 10, 2016	Jan. 09, 2017
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 10, 2016	Jan. 09, 2017
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 14, 2016	Jan. 13, 2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2016	Jan. 13, 2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2016	Jan. 13, 2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 14, 2016	Jan. 13, 2017
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 10, 2016	Jan. 09, 2017
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 10, 2016	Jan. 09, 2017
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 10, 2016	Jan. 09, 2017
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 10, 2016	Jan. 09, 2017





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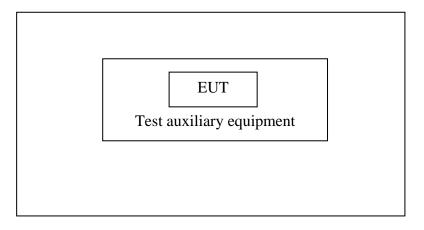
3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

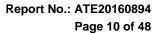
The mode is used: **BLE Transmitting mode**

Low Channel: 2402MHz Middle Channel: 2440MHz High Channel: 2480MHz

3.2.Configuration and peripherals



Setup: Transmitting mode

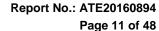




4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	N/A
Section 15.203	Antenna Requirement	Compliant

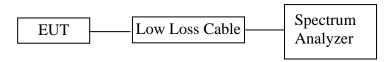
Note: The power supply mode of the EUT is DC 3.3-5.5V, According to the FCC standard requirements, conducted emission is not applicable.





5. 6DB BANDWIDTH MEASUREMENT

5.1.Block Diagram of Test Setup



(EUT: Bluetooth module)

5.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3.EUT Configuration on Measurement

The equipment is 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.

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT and simulator as shown as Section 6.1.
- 5.4.2. Turn on the power of all equipment.
- 5.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

5.5.Test Procedure

- 5.5.1.The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 5.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.
- 5.5.3.The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

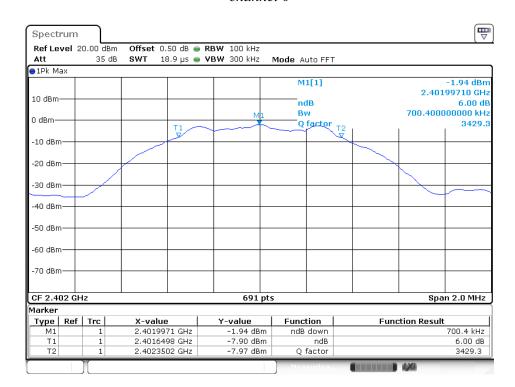


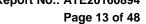
5.6.Test Result

Channel	Frequency (MHz)	6 dB Bandwith (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	0.7004	0.5	PASS
19	2440	0.6946	0.5	PASS
39	2480	0.7004	0.5	PASS

The spectrum analyzer plots are attached as below.

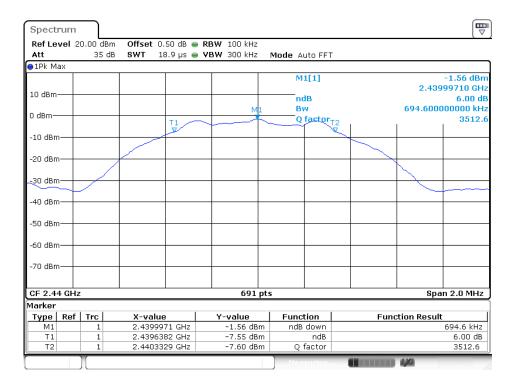
channel 0



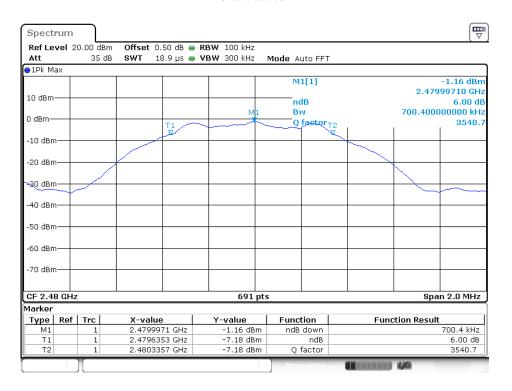




channel 19



channel 39



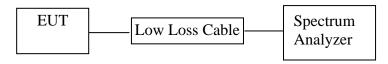




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6. MAXIMUM PEAK OUTPUT POWER

6.1.Block Diagram of Test Setup



(EUT: Bluetooth module)

6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

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 are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

6.5. Test Procedure

- 6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 6.5.2. Test method is options 1 from KDB558074 D01 DTS Meas Guidance v03r05
- 6.5.3.Set RBW of spectrum analyzer to 1 MHz and VBW to 3MHz.
- 6.5.4. Measurement the maximum peak output power.

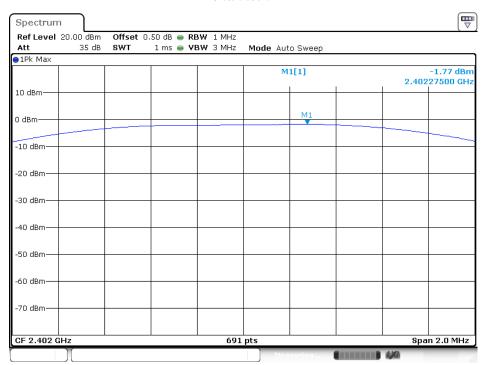


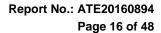
6.6.Test Result

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
0	2402	-1.77	30	PASS
19	2440	-1.40	30	PASS
39	2480	-1.12	30	PASS

The spectrum analyzer plots are attached as below.

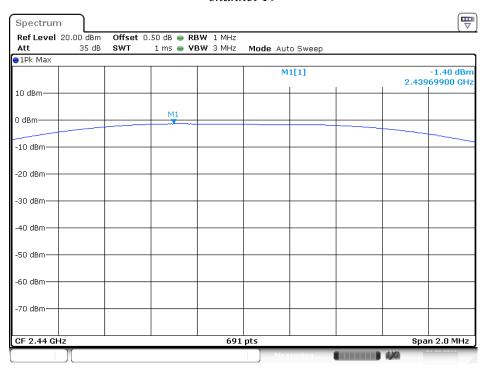
channel 0



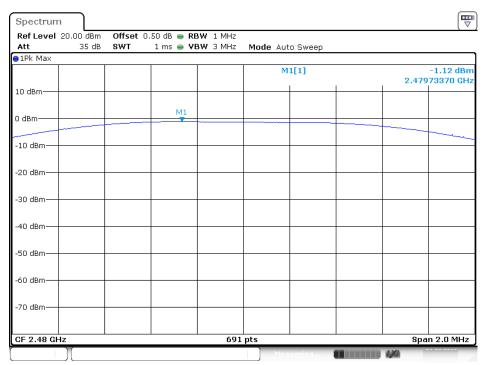


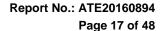






channel 39

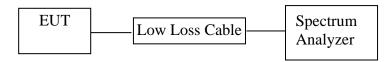






7. POWER SPECTRAL DENSITY MEASUREMENT

7.1.Block Diagram of Test Setup



(EUT: Bluetooth module)

7.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3.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.

7.4. Operating Condition of EUT

- 7.4.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.4.2. Turn on the power of all equipment.
- 7.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.



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7.5.Test Procedure

- 7.5.1. The EUT was tested according to DTS test procedure of Apr 08, 2016 KDB558074 D01 DTS Meas Guidance v03r05 for compliance to FCC 47CFR 15.247 requirements.
- 7.5.2. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 7.5.3. Measurement Procedure PKPSD:
- 7.5.4. This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.
 - 1. Set analyzer center frequency to DTS channel center frequency.
 - 2. Set the span to 1.5 times the DTS channel bandwidth.
 - 3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - 4. Set the VBW \geq 3 x RBW.
 - 5. Detector = peak.
 - 6. Sweep time = auto couple.
 - 7. Trace mode = max hold.
 - 8. Allow trace to fully stabilize.
 - 9. Use the peak marker function to determine the maximum amplitude level.
 - 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 7.5.5.Measurement the maximum power spectral density.

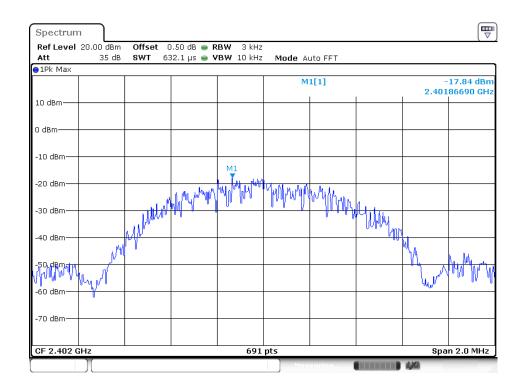


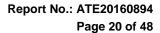
7.6.Test Result

CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-17.84	8	PASS
19	2440	-17.28	8	PASS
39	2480	-16.87	8	PASS

The spectrum analyzer plots are attached as below.

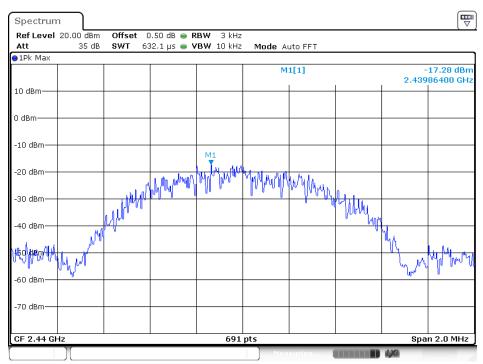
channel 0



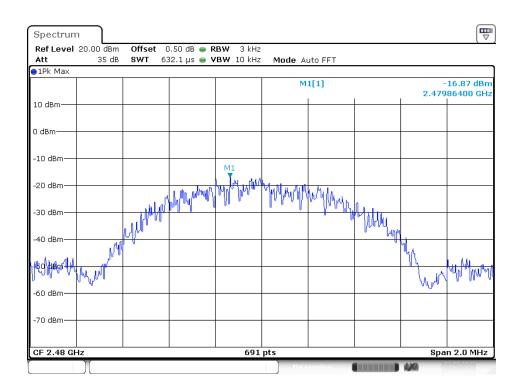








channel 39



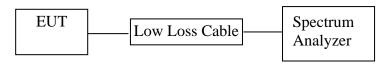




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8. BAND EDGE COMPLIANCE TEST

8.1.Block Diagram of Test Setup



(EUT: Bluetooth module)

8.2. The Requirement For Section 15.247(d)

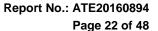
Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band 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 (b)(3) of this section, 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).

8.3.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.

8.4. Operating Condition of EUT

- 8.4.1. Setup the EUT and simulator as shown as Section 8.1.
- 8.4.2. Turn on the power of all equipment.
- 8.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.





8.5. Test Procedure

Conducted Band Edge:

- 8.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 8.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.
- 8.5.3. Radiate Band Edge:
- 8.5.4. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
- 8.5.5. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 8.5.6.EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 8.5.7.Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
- 8.5.8.RBW=1MHz, VBW=1MHz
- 8.5.9. The band edges was measured and recorded.

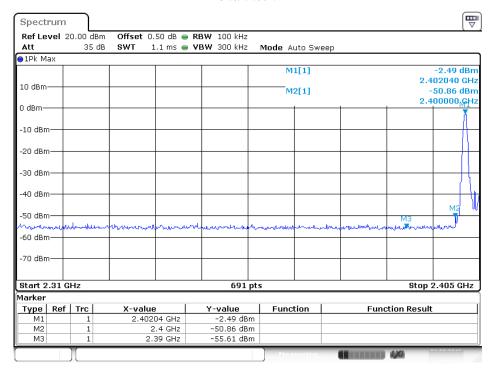
8.6.Test Result

Pass

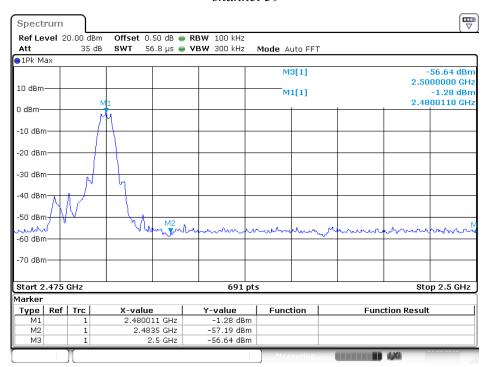
Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.4GHz	48.37	20
39	2.4835GHz	55.91	20



channel 0



channel 39





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Radiated Band Edge Result

Date of Test:May 30, 2016Temperature:25°CEUT:Bluetooth moduleHumidity:50%Model No.:BT03B110Power Supply:DC 5VTest Mode:TX (2402MHz) GFSKTest Engineer:Star

Frequency	Reading	(dBµV/m)	Factor(dB)	Result(dBμV/m)	Limit(d)	BμV/m)	Margi	n(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2390.000	32.48	40.80	-8.00	24.48	32.80	54.00	74.00	-29.52	-41.20	Vertical
2400.000	49.71	58.78	-7.97	41.74	50.81	54.00	74.00	-12.26	-23.19	Vertical
2390.000	32.69	41.20	-8.00	24.69	33.20	54.00	74.00	-29.31	-40.80	Horizontal
2400.000	48.14	57.84	-7.97	40.17	49.87	54.00	74.00	-13.83	-24.13	Horizontal

Date of Test:May 30, 2016Temperature:25°CEUT:Bluetooth moduleHumidity:50%Model No.:BT03B110Power Supply:DC 5VTest Mode:TX (2480MHz) GFSKTest Engineer:Star

Frequency	Reading	(dBµV/m)	Factor(dB)	Result(dBμV/m)	Limit(d)	BμV/m)	Margi	n(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	39.00	48.96	-7.76	31.24	41.20	54.00	74.00	-22.76	-32.80	Vertical
2500.000	33.57	42.41	-7.71	25.86	34.70	54.00	74.00	-28.14	-39.30	Vertical
2483.500	42.04	50.05	-7.76	34.28	42.29	54.00	74.00	-19.72	-31.71	Horizontal
2500.000	32.00	41.12	-7.71	24.29	33.41	54.00	74.00	-29.71	-40.59	Horizontal

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.





ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

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Job No.: STAR2016 #252 Polarization: Horizontal Standard: FCC PK Power Source: DC 5V

 Test item:
 Radiation Test
 Date: 16/05/30/

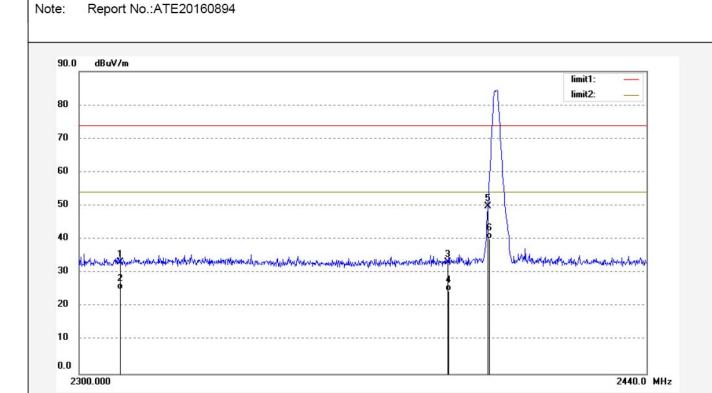
 Temp.(C)/Hum.(%)
 25 C / 55 %
 Time: 11/41/38

EUT: Bluetooth module Engineer Signature: star

Mode: TX 2402MHz Distance: 3m

Mode: TX 2402MHz
Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	41.39	-8.21	33.18	74.00	-40.82	peak			
2	2310.000	33.29	-8.21	25.08	54.00	-28.92	peak			
3	2390.000	41.20	-8.00	33.20	74.00	-40.80	peak			
4	2390.000	32.69	-8.00	24.69	54.00	-29.31	peak			
5	2400.000	57.84	-7.97	49.87	74.00	-24.13	peak			
6	2400.000	48.14	-7.97	40.17	54.00	-13.83	peak			





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Report No.: ATE20160894

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Job No.: STAR2016 #253 Polarization: Vertical Standard: FCC PK Power Source: DC 5V

 Test item:
 Radiation Test
 Date: 16/05/30/

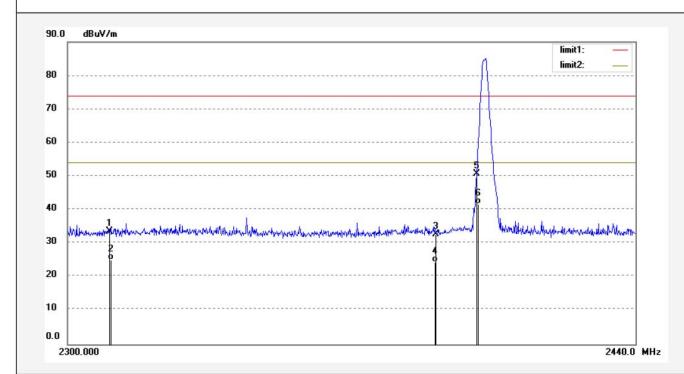
 Temp.(
 C)/Hum.(%)
 25
 C / 55 %
 Time: 11/42/38

EUT: Bluetooth module Engineer Signature: star

Mode: TX 2402MHz Distance: 3m Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	41.89	-8.21	33.68	74.00	-40.32	peak			
2	2310.000	33.20	-8.21	24.99	54.00	-29.01	peak			
3	2390.000	40.80	-8.00	32.80	74.00	-41.20	peak			
4	2390.000	32.48	-8.00	24.48	54.00	-29.52	peak			
5	2400.000	58.78	-7.97	50.81	74.00	-23.19	peak			
6	2400.000	49.71	-7.97	41.74	54.00	-12.26	peak			



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Site: 1# Chamber

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Report No.: ATE20160894

Science & Industry Park, Nanshan Shenzhen, P.R. China Fax:+

Polarization: Horizontal

Power Source: DC 5V Date: 16/05/30/ Time: 11/43/54

Engineer Signature: star

Distance: 3m

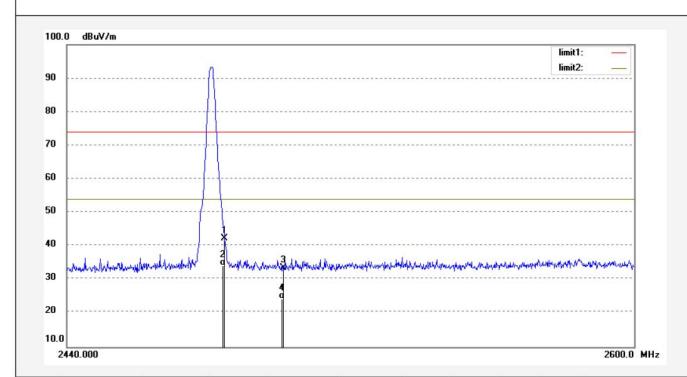
Job No.: STAR2016 #254
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Bluetooth module

Mode: TX 2480MHz Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894



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	50.05	-7.76	42.29	74.00	-31.71	peak			
2	2483.500	42.04	-7.76	34.28	54.00	-19.72	peak			
3	2500.000	41.12	-7.71	33.41	74.00	-40.59	peak			
4	2500.000	32.00	-7.71	24.29	54.00	-29.71	peak			



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Job No.: STAR2016 #255

Standard: FCC PK

Test item: Radiation Test

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

EUT: Bluetooth module

Mode: TX 2480MHz Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894

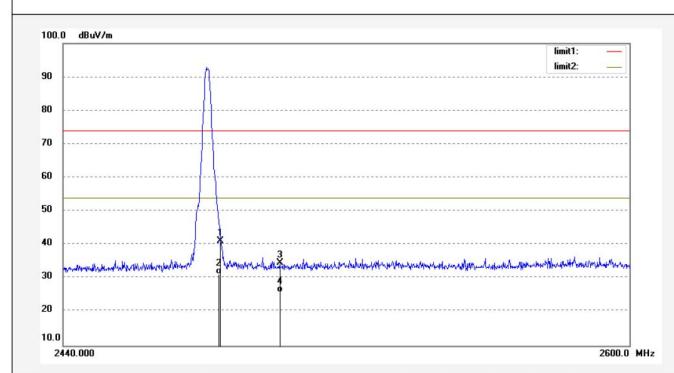
Polarization: Vertical

Power Source: DC 5V

Date: 16/05/30/ Time: 11/44/51

Engineer Signature: star

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	2483.500	48.96	-7.76	41.20	74.00	-32.80	peak			
2	2483.500	39.00	-7.76	31.24	54.00	-22.76	peak		3	
3	2500.000	42.41	-7.71	34.70	74.00	-39.30	peak			
4	2500.000	33.57	-7.71	25.86	54.00	-28.14	peak			

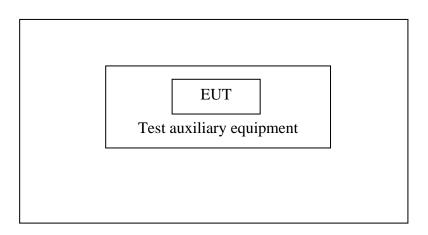


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9. RADIATED SPURIOUS EMISSION TEST

9.1.Block Diagram of Test Setup

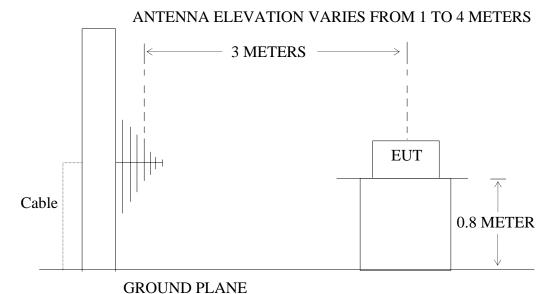
9.1.1.Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: Bluetooth module)

9.1.2.Semi-Anechoic Chamber Test Setup Diagram





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9.2. The Limit For Section 15.247(d)

Section 15.247(d): 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 (b)(3) of this section, 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).

9.3. Restricted bands of operation

9.3.1.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	$(^2)$
13.36-13.41			

Until 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.

²Above 38.6



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9.4. 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.

9.5. Operating Condition of EUT

- 9.5.1. Setup the EUT and simulator as shown as Section 9.1.
- 9.5.2. Turn on the power of all equipment.
- 9.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

9.6.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 bandwidth of test receiver is set at 9 kHz in below 30MHz, and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

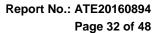
The frequency range from 9 kHz to 25GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain





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

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

- 2. *: Denotes restricted band of operation.
- 3.The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.



Model:

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Report No.: ATE20160894

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Job No.: STAR2015 #1440 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 5V

Test item: Radiation Test

Date: 2016/06/29

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

EUT: Bluetooth module

Mode: TX 2402MHz

Date: 2016/06/29

Time: 14:18:40

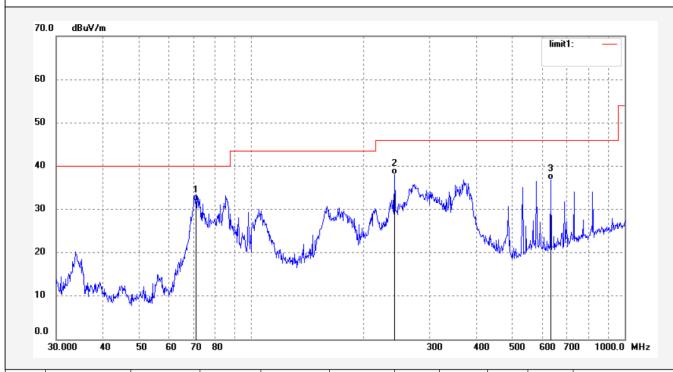
Engineer Signature:

Distance: 3m

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894

BT03B110



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.2032	54.87	-22.92	31.95	40.00	-8.05	QP			
2	241.8377	56.28	-18.23	38.05	46.00	-7.95	QP			
3	633.3284	46.06	-9.21	36.85	46.00	-9.15	QP			



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Report No.: ATE20160894

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Job No.: STAR2015 #1439

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth module Mode: TX 2402MHz

Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894

Polarization: Vertical Power Source: DC 5V Date: 2016/06/29 Time: 14:17:14 Engineer Signature:

Distance: 3m

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60													 				
50													 				
40								1			<u>2</u>			3			
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0.0	0.000	40	50	60	70	80						300	400 <u>!</u>	500	600 700	1000.0	

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	106.2811	56.25	-21.68	34.57	43.50	-8.93	QP			
2	241.8377	55.63	-18.23	37.40	46.00	-8.60	QP			
3	580.0705	45.67	-10.37	35.30	46.00	-10.70	QP			



Model:

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Site: 1# Chamber

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Report No.: ATE20160894

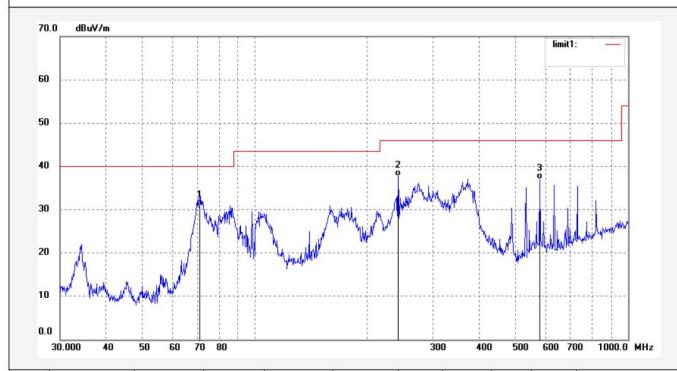
Job No.: STAR2015 #1441 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 5V

Test item: Radiation Test Date: 2016/06/29
Temp.(C)/Hum.(%) 25 C / 55 % Time: 14:19:58
EUT: Bluetooth module Engineer Signature:
Mode: TX 2440MHz Distance: 3m

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894

BT03B110



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.2032	53.86	-22.92	30.94	40.00	-9.06	QP			
2	241.8377	55.93	-18.23	37.70	46.00	-8.30	QP			
3	580.0705	47.44	-10.37	37.07	46.00	-8.93	QP			



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Site: 1# Chamber Tel:+86-0755-26503290 F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Fax:+86-0755-26503396 Science & Industry Park, Nanshan Shenzhen, P.R. China

Job No.: STAR2015 #1442 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth module Mode: TX 2440MHz

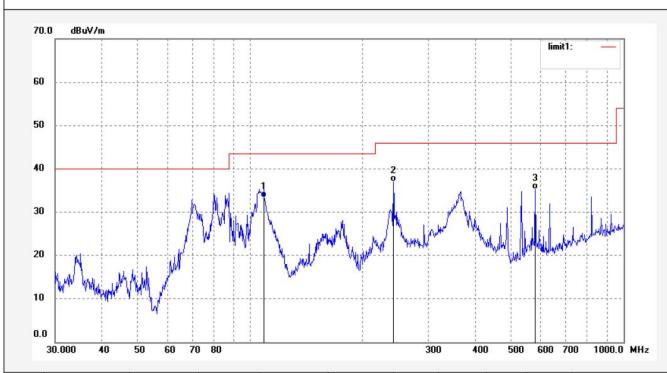
Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

Report No.:ATE20160894 Note:

Polarization: Vertical Power Source: DC 5V Date: 2016/06/29

> Time: 14:21:03 Engineer Signature: 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	108.5455	54.70	-21.29	33.41	43.50	-10.09	QP			
2	241.8377	55.30	-18.23	37.07	46.00	-8.93	QP			
3	580.0705	45.71	-10.37	35.34	46.00	-10.66	QP			



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Site: 1# Chamber

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Report No.: ATE20160894

Job No.: STAR2015 #1444 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 5V

Test item: Radiation Test

Date: 2016/06/29

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

EUT: Bluetooth module

Mode: TX 2480MHz

Date: 2016/06/29

Time: 14:22:56

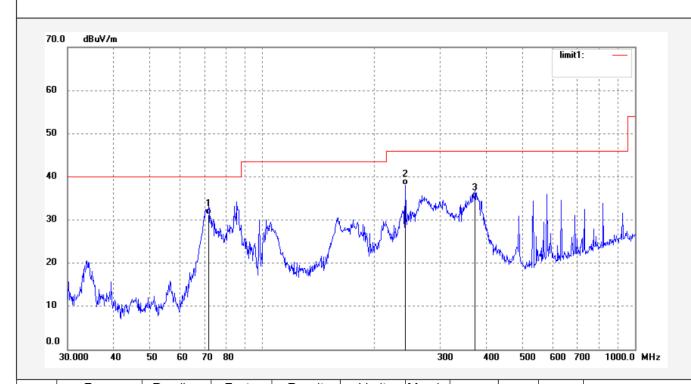
Engineer Signature:

Distance: 3m

Mode: TX 2480MHz Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.7054	54.13	-22.94	31.19	40.00	-8.81	QP			
2	241.8377	56.33	-18.23	38.10	46.00	-7.90	QP			
3	372.5748	49.20	-14.20	35.00	46.00	-11.00	QP			



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Report No.: ATE20160894

Job No.: STAR2015 #1443

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth module
Mode: TX 2480MHz
Model: BT03B110

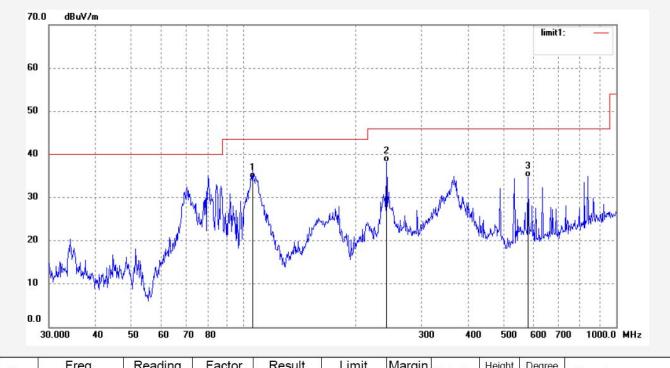
Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894

Power Source: DC 5V Date: 2016/06/29 Time: 14:21:37 Engineer Signature: Distance: 3m

Vertical

Polarization:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	105.5369	56.24	-21.79	34.45	43.50	-9.05	QP			
2	241.8377	56.55	-18.23	38.32	46.00	-7.68	QP			
3	580.0705	45.06	-10.37	34.69	46.00	-11.31	QP			



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Job No.: STAR2016 #631

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth module
Mode: TX 2402MHz

Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

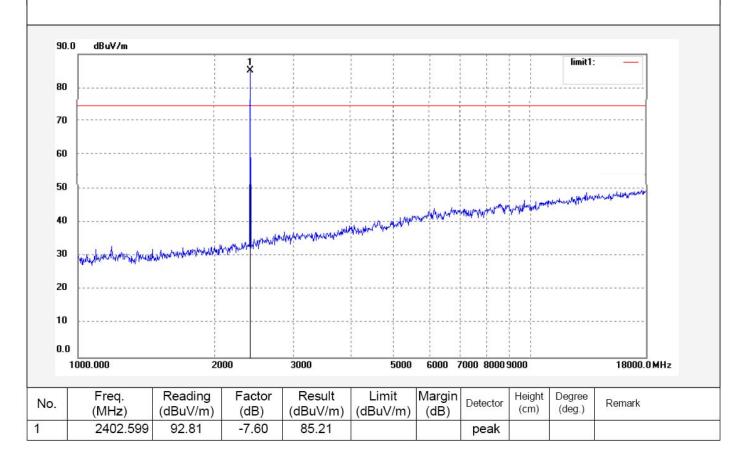
Note: Report No.:ATE20160894

Polarization: Horizontal Power Source: DC 5V

Date: 16/05/30/ Time: 10/35/42

Engineer Signature: star

Distance: 3m







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

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20160894

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Job No.: STAR2016 #632 Polarization: Vertical Power Source: DC 5V

Date: 16/05/30/ Time: 10/40/14

Engineer Signature: star

Distance: 3m

Standard: FCC Class B 3M Radiated Test item: Radiation Test

Mode: TX 2402MHz Model: BT03B110

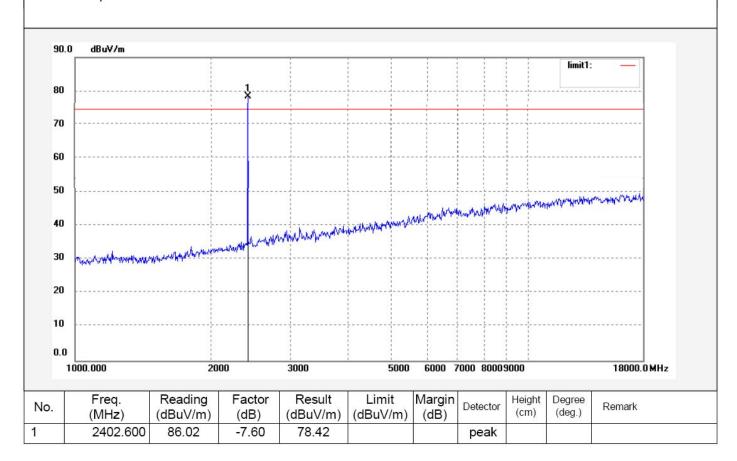
EUT:

Manufacturer: Xiamen Prima Technology Inc

Report No.:ATE20160894 Note:

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

Bluetooth module





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Report No.: ATE20160894

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Job No.: STAR2016 #634 Polarization: Horizontal Power Source: DC 5V Standard: FCC Class B 3M Radiated

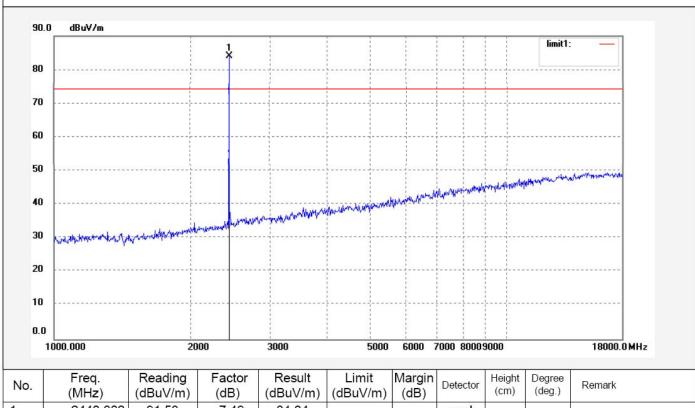
Test item: Radiation Test Date: 16/05/30/ Temp.(C)/Hum.(%) 25 C / 55 % Time: 10/51/19

EUT: Bluetooth module Engineer Signature: Distance: 3m

Mode: TX 2440MHz Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894







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Report No.: ATE20160894

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Job No.: STAR2016 #633 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 5V

 Test item:
 Radiation Test
 Date: 16/05/30/

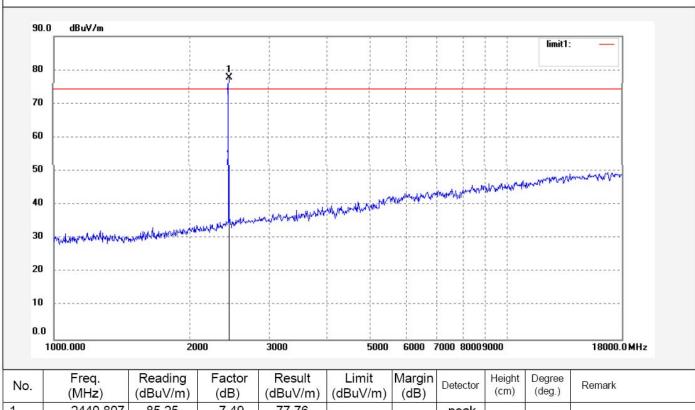
 Temp.(C)/Hum.(%)
 25 C / 55 %
 Time: 10/46/25

EUT: Bluetooth module Engineer Signature: star

Mode: TX 2440MHz Distance: 3m Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894





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Report No.: ATE20160894

Job No.: STAR2016 #635 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 5V

Date: 16/05/30/ Time: 10/56/32

EUT: Bluetooth module Engineer Signature: star

Distance: 3m

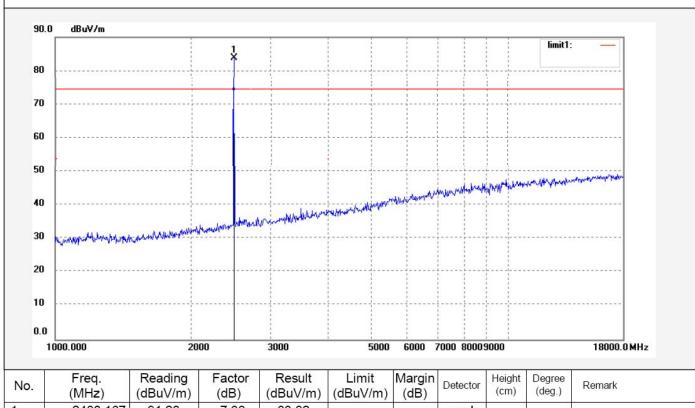
Mode: TX 2480MHz Model: BT03B110

Test item: Radiation Test

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894

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



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.167	91.20	-7.38	83.82		peak			



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Fax:+86-0755-26503396

Report No.: ATE20160894

Job No.: STAR2016 #636 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 5V

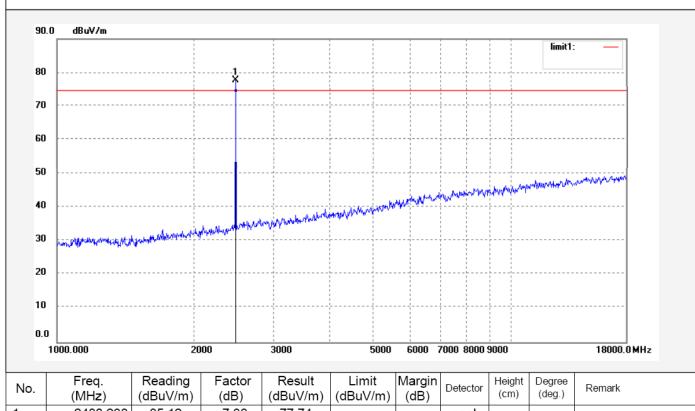
Test item: Radiation Test Date: 16/05/30/

Temp.(C)/Hum.(%) 25 C / 55 % Time: 11/01/45 EUT: Bluetooth module Engineer Signature: star

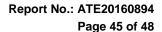
Mode: TX 2480MHz Distance: 3m Model: BT03B110

Manufacturer: Xiamen Prima Technology Inc

Note: Report No.:ATE20160894



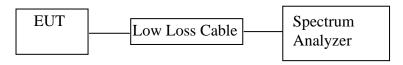
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2480.238	85.12	-7.38	77.74		peak				





10. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1.Block Diagram of Test Setup



(EUT: Bluetooth module)

10.2. The Requirement For Section 15.247(d)

Section 15.247(d): 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 (b)(3) of this section, 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).

10.3.EUT Configuration on Measurement

The equipment is 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.

10.4. Operating Condition of EUT

- 10.4.1. Setup the EUT and simulator as shown as Section 10.1.
- 10.4.2. Turn on the power of all equipment.
- 10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

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10.5.Test Procedure

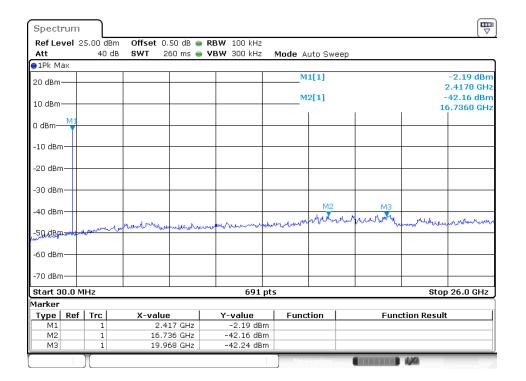
- 10.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 10.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz
- 10.5.3. The Conducted Spurious Emission was measured and recorded.

10.6.Test Result

Pass.

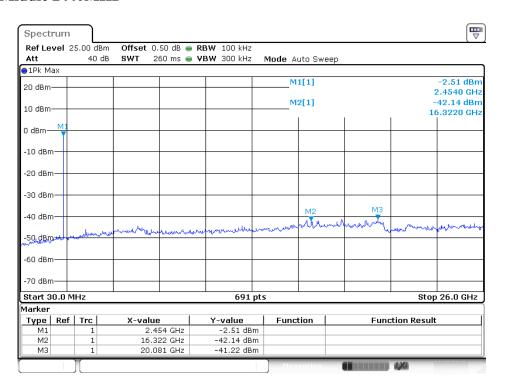
The spectrum analyzer plots are attached as below.

BLE Channel Low 2402MHz

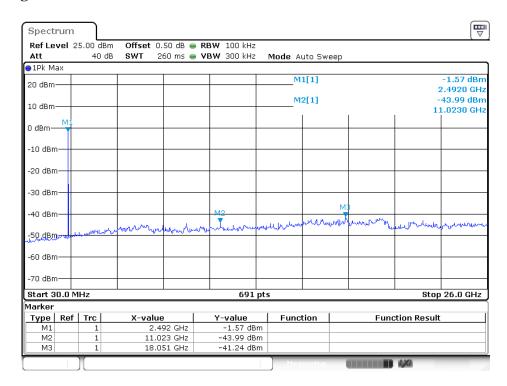




BLE Channel Middle 2440MHz



BLE Channel High 2480MHz





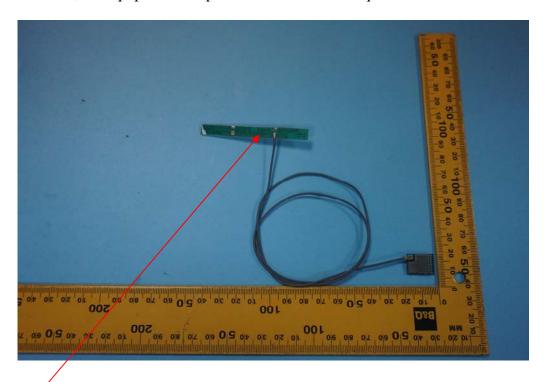
11.ANTENNA REQUIREMENT

11.1.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.

11.2.Antenna Construction

The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b); The Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement.



Anténna