

## 10.RADIATED SPURIOUS EMISSION TEST

### 10.1.Block Diagram of Test Setup

#### 10.1.1.Block diagram of connection between the EUT and peripherals

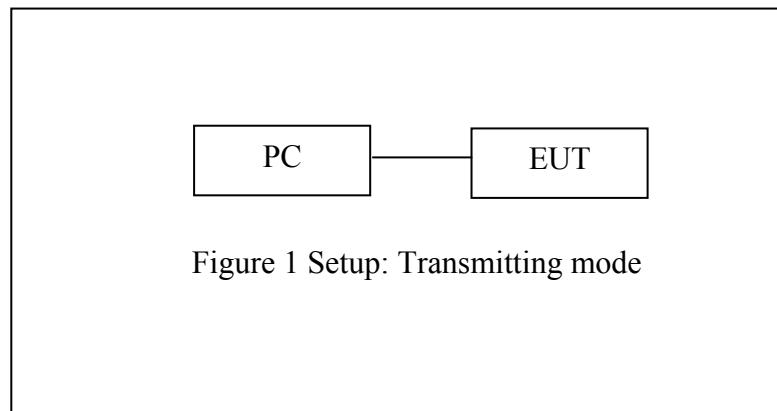
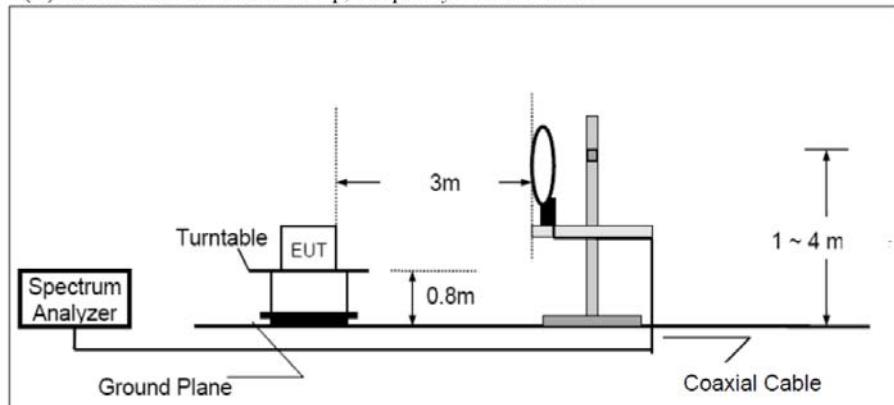


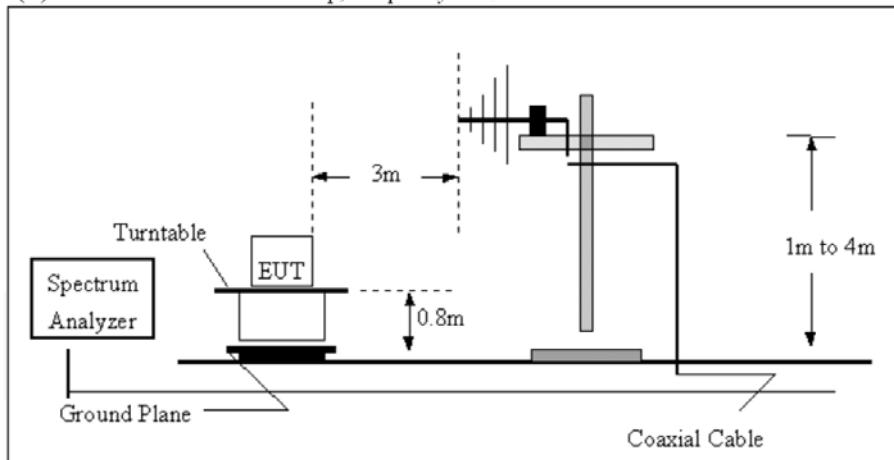
Figure 1 Setup: Transmitting mode

#### 10.1.2.Semi-Anechoic Chamber Test Setup Diagram

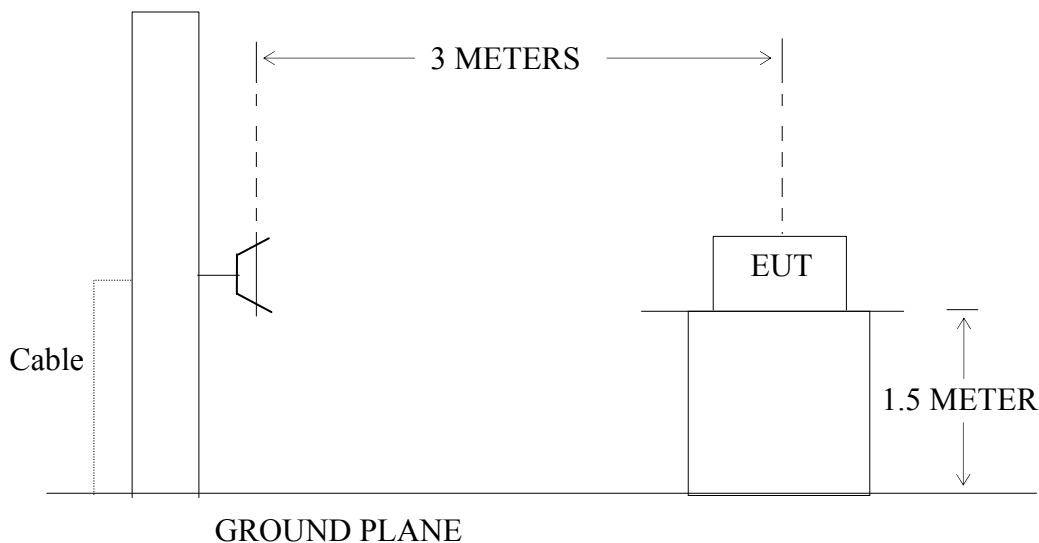
(A)Radiated Emission Test Set-Up, Frequency below 30MHz



(B)Radiated Emission Test Set-Up, Frequency 30-1000MHz



## (C) Radiated Emission Test Set-Up, Frequency above 1GHz



## 10.2.Restricted bands of operation

## 10.2.1.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
<sup>1</sup> 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	( <sup>2</sup> )
13.36-13.41			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510

<sup>2</sup>Above 38.6

(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 Section 15.209 shall be demonstrated

based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

### 10.3.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.

### 10.4.The Limit For Section 15.407

Section 15.247(d): For transmitters operating in the 5.15–5.25 GHz band: all emissions out-side of the 5.15–5.35 GHz band shall not exceed an EIRP of –27dBm/MHz.  
For transmitters operating in the 5.725–5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of –17dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of –27dBm/MHz.

### 10.5.Operating Condition of EUT

10.5.1.Setup the EUT and simulator as shown as Section 10.1.

10.5.2.Turn on the power of all equipment.

10.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 5150-5250 and 5725-5825MHz.

### 10.6.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 9KHz to 40000MHz 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.

## 10.7.The Field Strength of Radiation Emission Measurement Results

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

2. \*: Denotes restricted band of operation.
3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.
4. The EUT is tested radiation emission at each test mode (802.11a/ac/n) in three axes. Besides, We have tested the single antenna transmit mode and the dual antenna emission mode. The worst emissions are reflected in the following plots.
6. The average measurement was not performed when peak measured data under the limit of average detection.

### **Below 1G**



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

Job No.: frank2018 #113 Polarization: Horizontal

Standard: FCC Class B 3M Radiated Power Source: DC 3.3V

Test item: Radiation Test Date: 2018/01/23

Temp.( C)/Hum.(%) 25 C / 55 % Time: 17:31:52

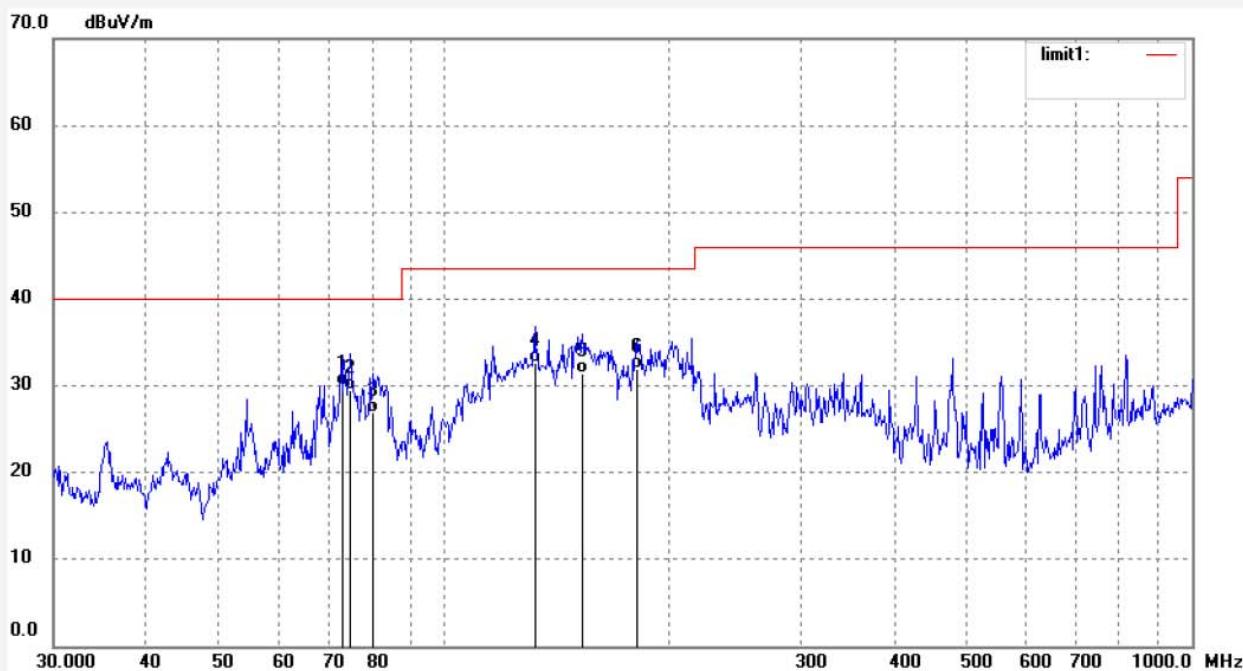
EUT: Wifi module Engineer Signature:

Mode: TX Channel 36-AC 20MHz(MIMO) Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	73.2330	57.68	-27.63	30.05	40.00	-9.95	QP	200	94	
2	74.7934	57.10	-27.69	29.41	40.00	-10.59	QP	200	347	
3	80.2382	54.31	-27.40	26.91	40.00	-13.09	QP	200	182	
4	132.1489	60.38	-27.77	32.61	43.50	-10.89	QP	200	254	
5	153.1627	59.18	-27.77	31.41	43.50	-12.09	QP	200	116	
6	180.6639	57.93	-25.97	31.96	43.50	-11.54	QP	200	130	



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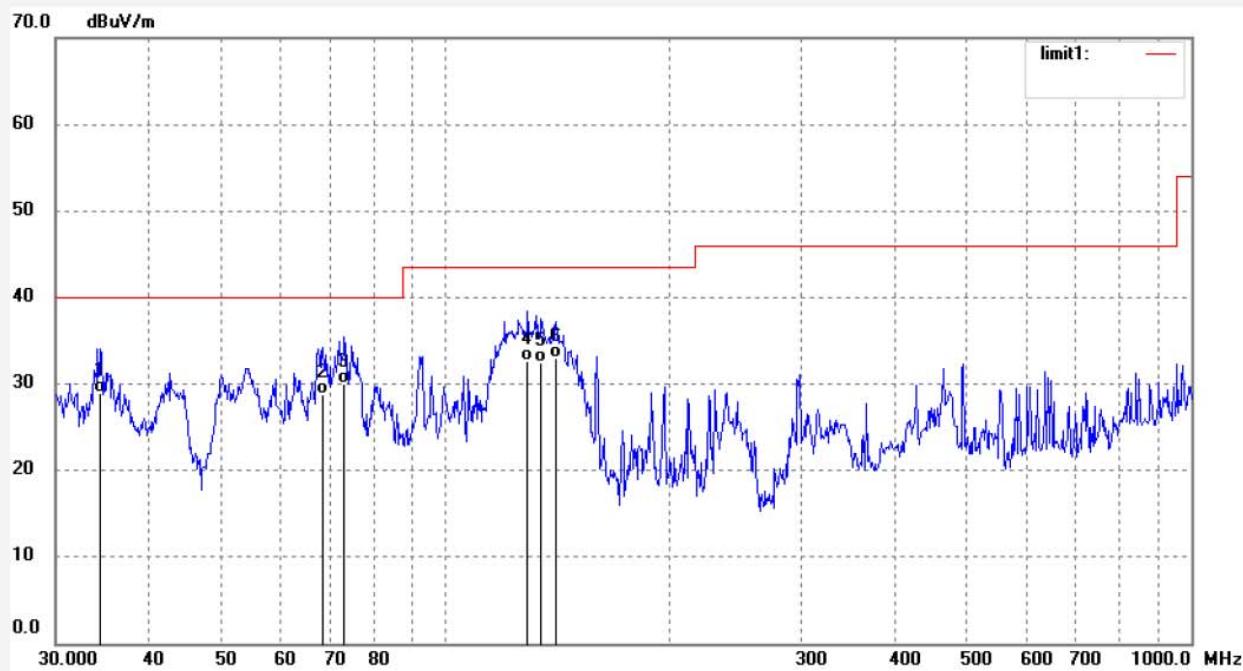
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: frank2018 #114  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Wifi module  
Mode: TX Channel 36-AC 20MHz(MIMO)  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 17:36:54  
Engineer Signature:  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	50.31	-21.30	29.01	40.00	-10.99	QP	100	25	
2	68.5036	56.18	-27.42	28.76	40.00	-11.24	QP	100	187	
3	73.2330	57.65	-27.63	30.02	40.00	-9.98	QP	100	89	
4	128.9385	60.28	-27.69	32.59	43.50	-10.91	QP	100	251	
5	134.4910	60.31	-27.83	32.48	43.50	-11.02	QP	100	144	
6	140.7767	60.98	-27.96	33.02	43.50	-10.48	QP	100	139	



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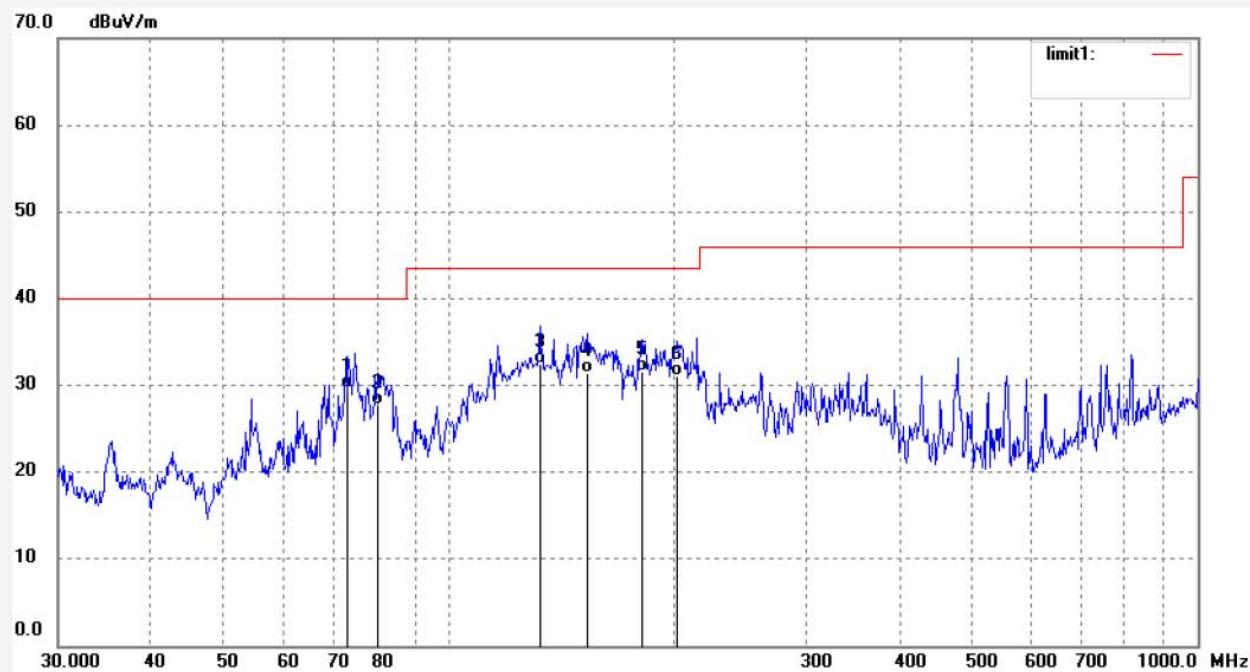
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: frank2018 #115  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Wifi module  
Mode: TX Channel 48-AC 20MHz(MIMO)  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 17:31:52  
Engineer Signature:  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.7202	57.31	-27.60	29.71	40.00	-10.29	QP	200	325	
2	80.2382	55.12	-27.40	27.72	40.00	-12.28	QP	200	148	
3	132.1489	60.31	-27.77	32.54	43.50	-10.96	QP	200	90	
4	153.1627	59.24	-27.77	31.47	43.50	-12.03	QP	200	192	
5	180.6639	57.60	-25.97	31.63	43.50	-11.87	QP	200	181	
6	201.4539	55.35	-24.30	31.05	43.50	-12.45	QP	200	31	



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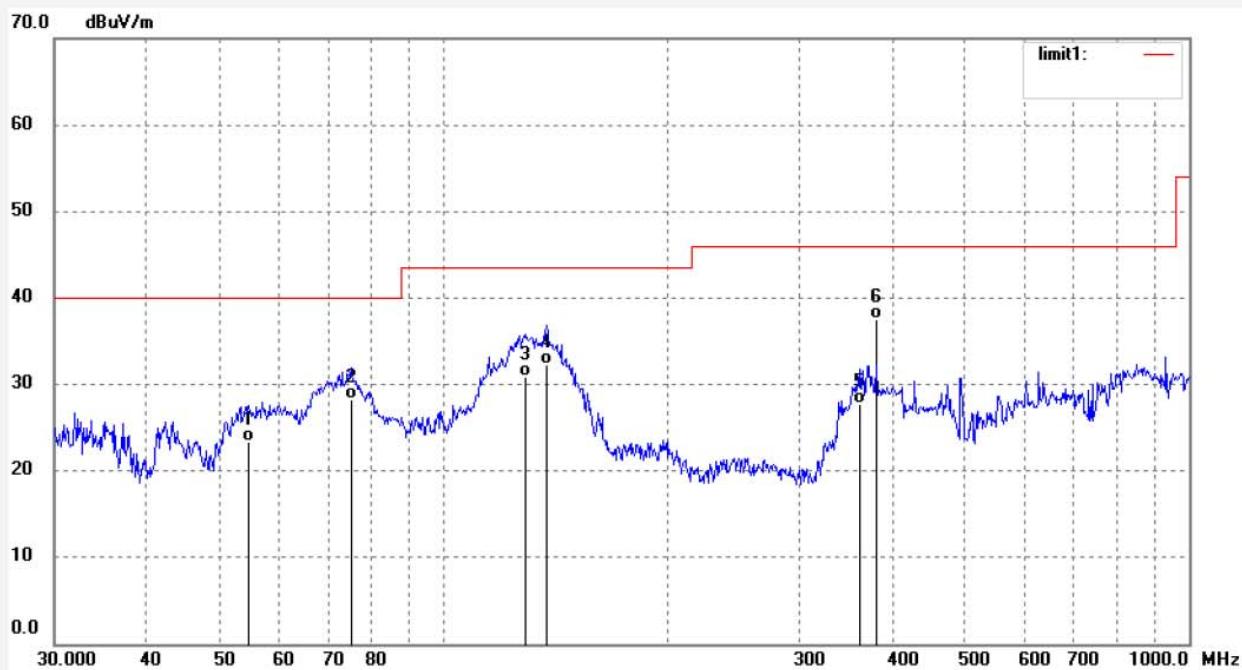
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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: frank2018 #116  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Wifi module  
Mode: TX Channel 48-AC 20MHz(MIMO)  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 17:29:25  
Engineer Signature:  
Distance: 3m

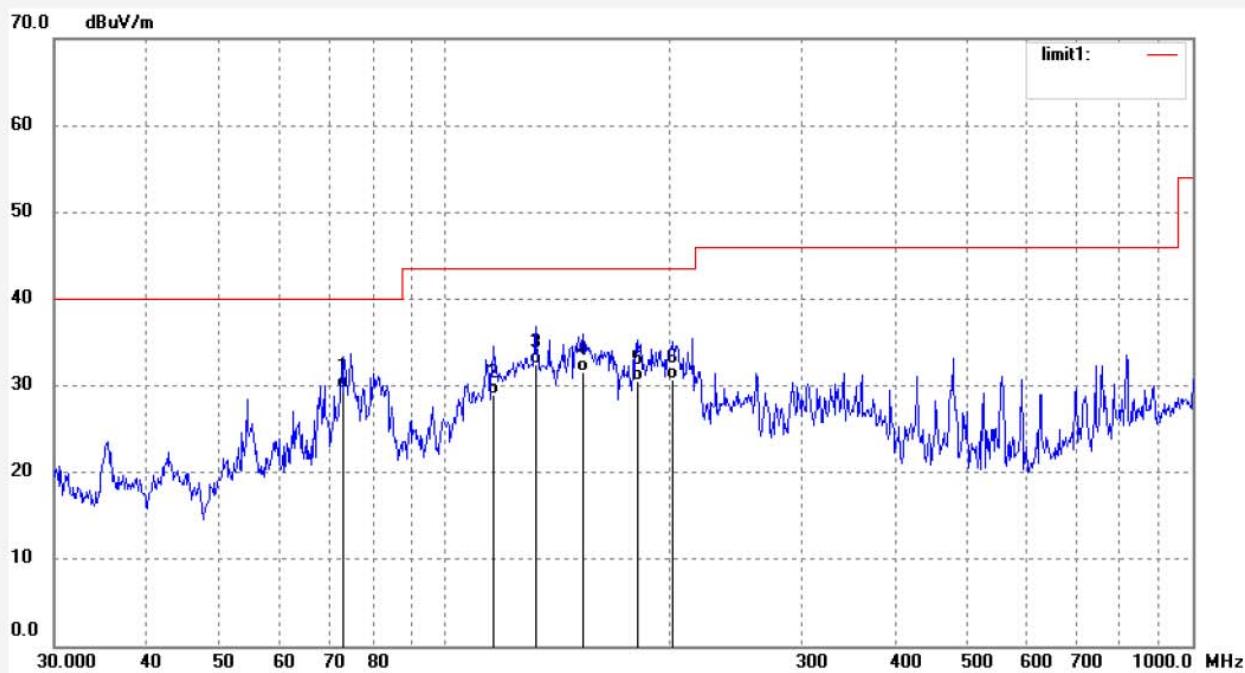
Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	54.7085	50.38	-26.96	23.42	40.00	-16.58	QP	100	251	
2	75.0566	56.01	-27.70	28.31	40.00	-11.69	QP	100	295	
3	128.4858	58.64	-27.67	30.97	43.50	-12.53	QP	100	264	
4	137.3565	60.23	-27.89	32.34	43.50	-11.16	QP	100	187	
5	360.9775	46.70	-18.90	27.80	46.00	-18.20	QP	100	310	
6	380.5126	56.15	-18.61	37.54	46.00	-8.46	QP	100	55	

Job No.: frank2018 #118      Polarization: Horizontal  
 Standard: FCC Class B 3M Radiated      Power Source: DC 3.3V  
 Test item: Radiation Test      Date: 2018/01/23  
 Temp.( C)/Hum.(%) 25 C / 55 %      Time: 17:31:52  
 EUT: Wifi module      Engineer Signature:  
 Mode: TX Channel 149-AC 20MHz(MIMO)      Distance: 3m  
 Model: M632USA1  
 Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	73.2330	57.31	-27.63	29.68	40.00	-10.32	QP	200	169	
2	116.0391	56.26	-27.37	28.89	43.50	-14.61	QP	200	103	
3	132.1489	60.28	-27.77	32.51	43.50	-10.99	QP	200	328	
4	153.1627	59.39	-27.77	31.62	43.50	-11.88	QP	200	196	
5	180.6639	56.48	-25.97	30.51	43.50	-12.99	QP	200	84	
6	201.4539	55.10	-24.30	30.80	43.50	-12.70	QP	200	254	



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

Job No.: frank2018 #117

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 17:29:25

EUT: Wifi module

Engineer Signature:

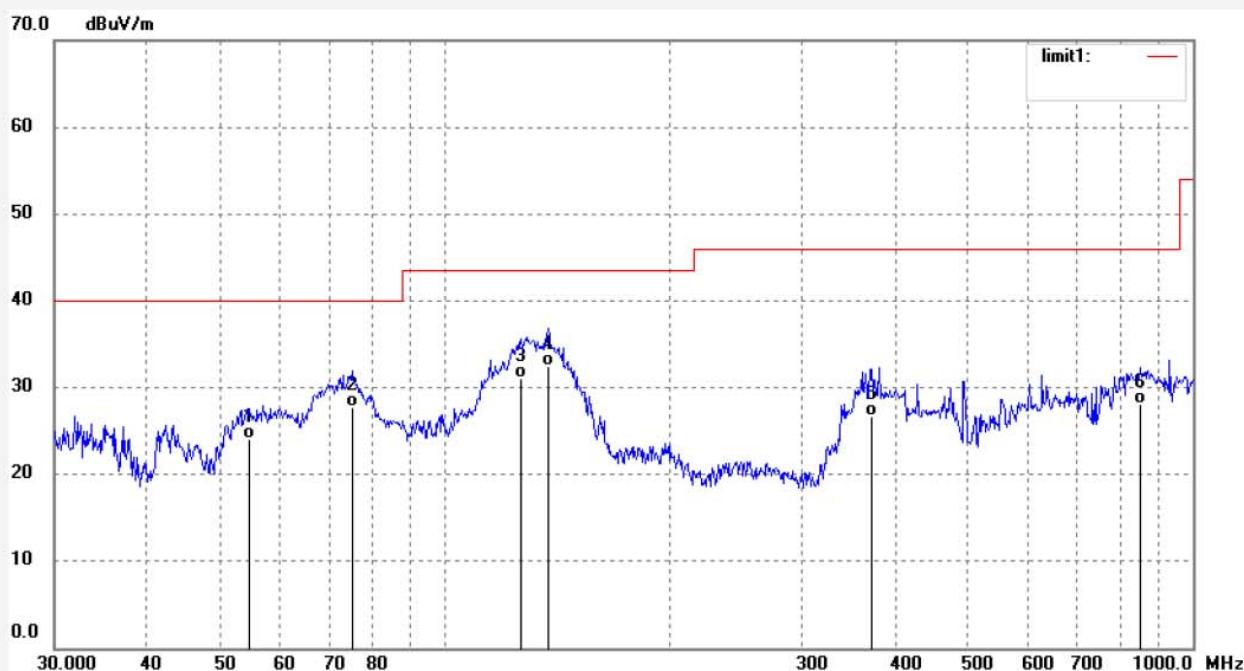
Mode: TX Channel 149-AC 20MHz(MIMO)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	54.7085	50.97	-26.96	24.01	40.00	-15.99	QP	100	256	
2	75.0566	55.39	-27.70	27.69	40.00	-12.31	QP	100	320	
3	126.2485	58.64	-27.62	31.02	43.50	-12.48	QP	100	93	
4	137.3565	60.37	-27.89	32.48	43.50	-11.02	QP	100	181	
5	372.5747	45.36	-18.74	26.62	46.00	-19.38	QP	100	51	
6	850.7603	36.05	-8.01	28.04	46.00	-17.96	QP	100	310	

Job No.: frank2018 #109

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 17:35:47

EUT: Wifi module

Engineer Signature:

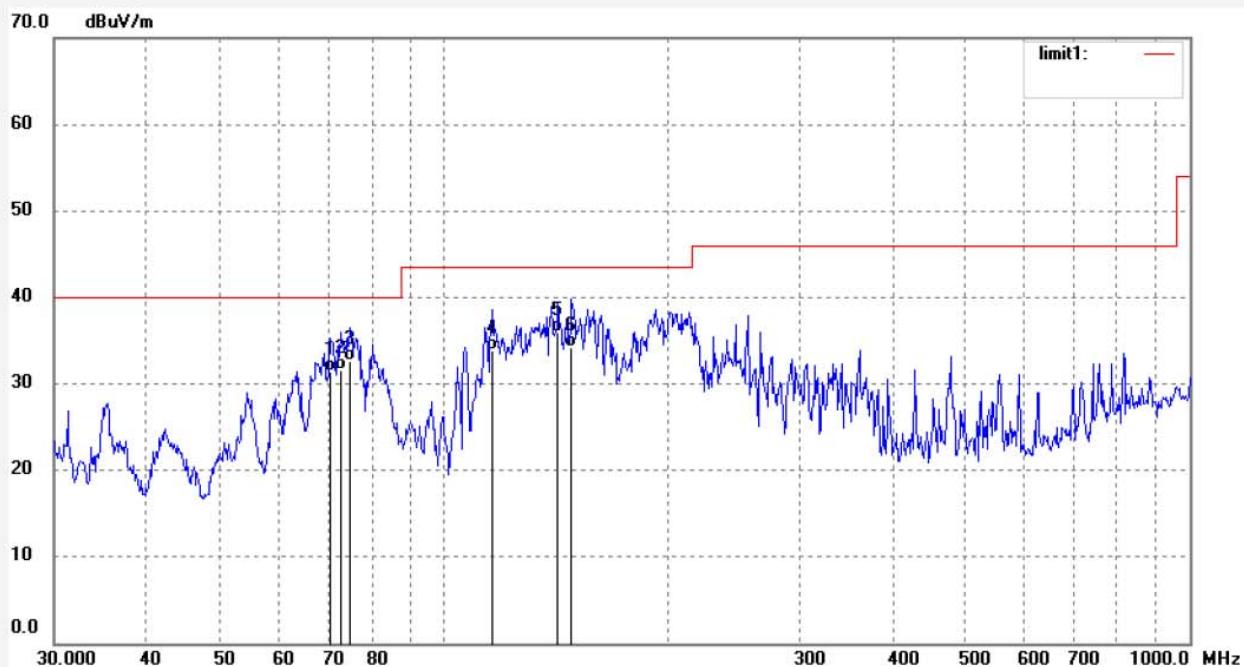
Mode: TX Channel 165-AC 20MHz(MIMO)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	70.4566	58.91	-27.50	31.41	40.00	-8.59	QP	200	235	
2	72.7202	59.25	-27.60	31.65	40.00	-8.35	QP	200	196	
3	74.7934	60.37	-27.69	32.68	40.00	-7.32	QP	200	184	
4	116.0391	61.26	-27.37	33.89	43.50	-9.61	QP	200	81	
5	142.2684	63.91	-27.99	35.92	43.50	-7.58	QP	200	102	
6	148.3951	62.32	-28.05	34.27	43.50	-9.23	QP	200	159	



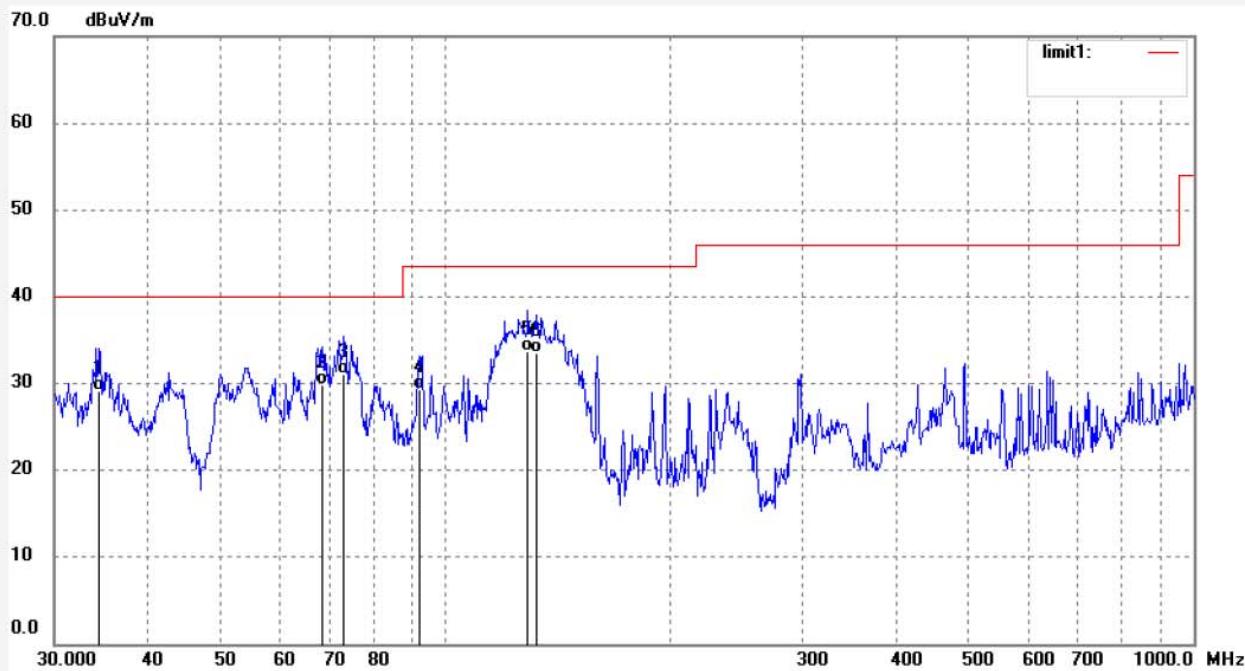
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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: frank2018 #110	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3.3V
Test item: Radiation Test	Date: 2018/01/23
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 17:36:54
EUT: Wifi module	Engineer Signature:
Mode: TX Channel 165-AC 20MHz(MIMO)	Distance: 3m
Model: M632USA1	
Manufacturer: Xiamen Prima Technology Inc.	

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	50.38	-21.30	29.08	40.00	-10.92	QP	100	301	
2	68.5037	57.31	-27.42	29.89	40.00	-10.11	QP	100	265	
3	73.2330	58.61	-27.63	30.98	40.00	-9.02	QP	100	158	
4	92.3461	56.66	-27.42	29.24	43.50	-14.26	QP	100	294	
5	128.9385	61.37	-27.69	33.68	43.50	-9.82	QP	100	215	
6	132.1489	61.28	-27.77	33.51	43.50	-9.99	QP	100	103	

## Above 1G

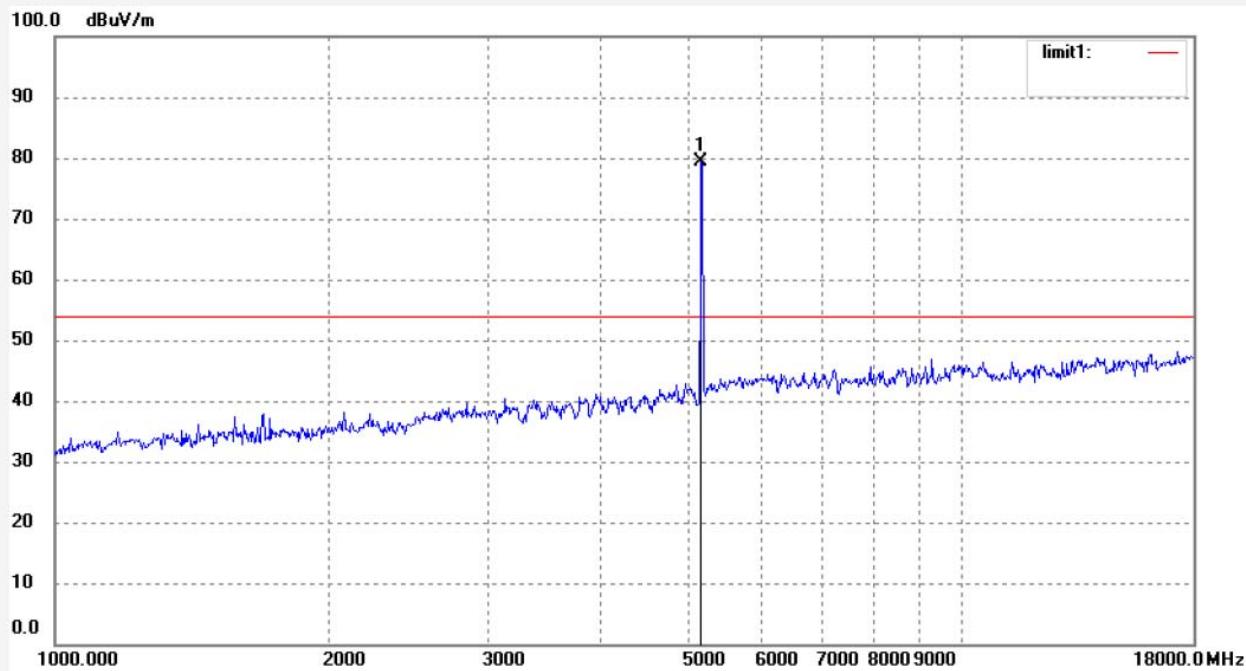


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Science & Industry Park,Nanshan Shenzhen,P.R.ChinaSite: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: STAR2017 #910      Polarization: Horizontal  
 Standard: FCC Class B 3M Radiated      Power Source: DC 3.3V  
 Test item: Radiation Test      Date: 2018/01/23  
 Temp.( C)/Hum.(%) 25 C / 55 %      Time: 17/43/29  
 EUT: WiFi module      Engineer Signature: star  
 Mode: TX Channel 36-A      Distance: 3m  
 Model: M632USA1  
 Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.041	77.33	2.06	79.39			peak	200	300	



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

Job No.: STAR2017 #911

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 17/45/16

EUT: WiFi module

Engineer Signature: star

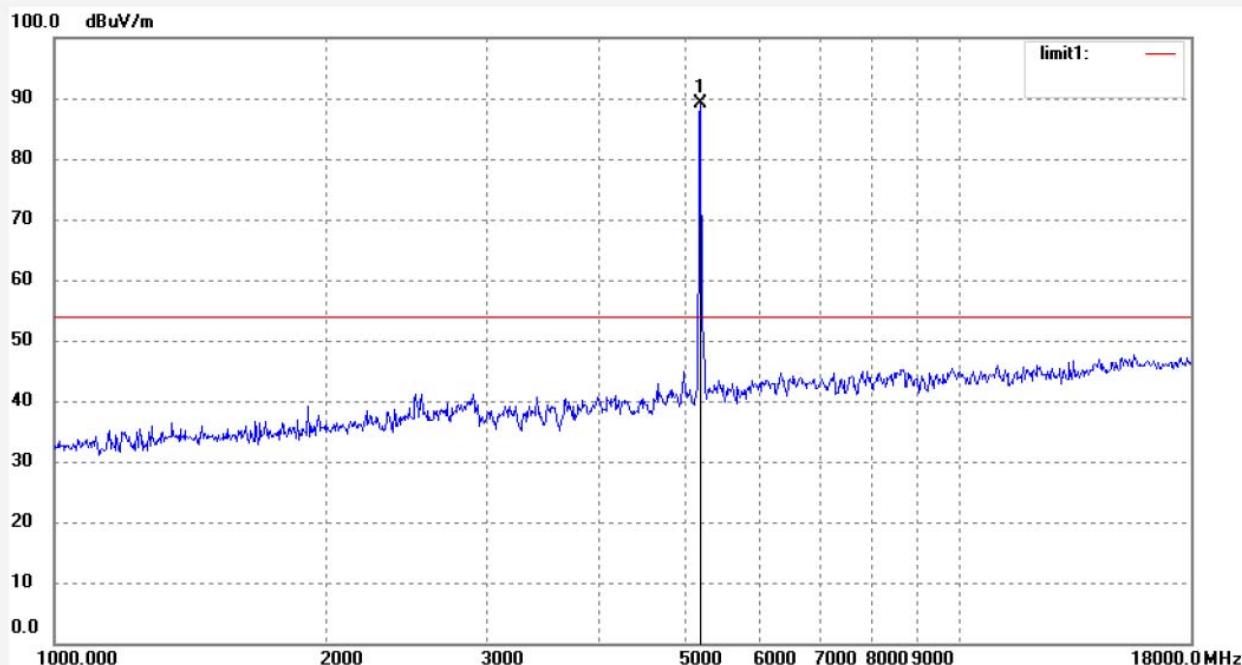
Mode: TX Channel 36-A

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.093	87.16	2.07	89.23			peak	150	245	



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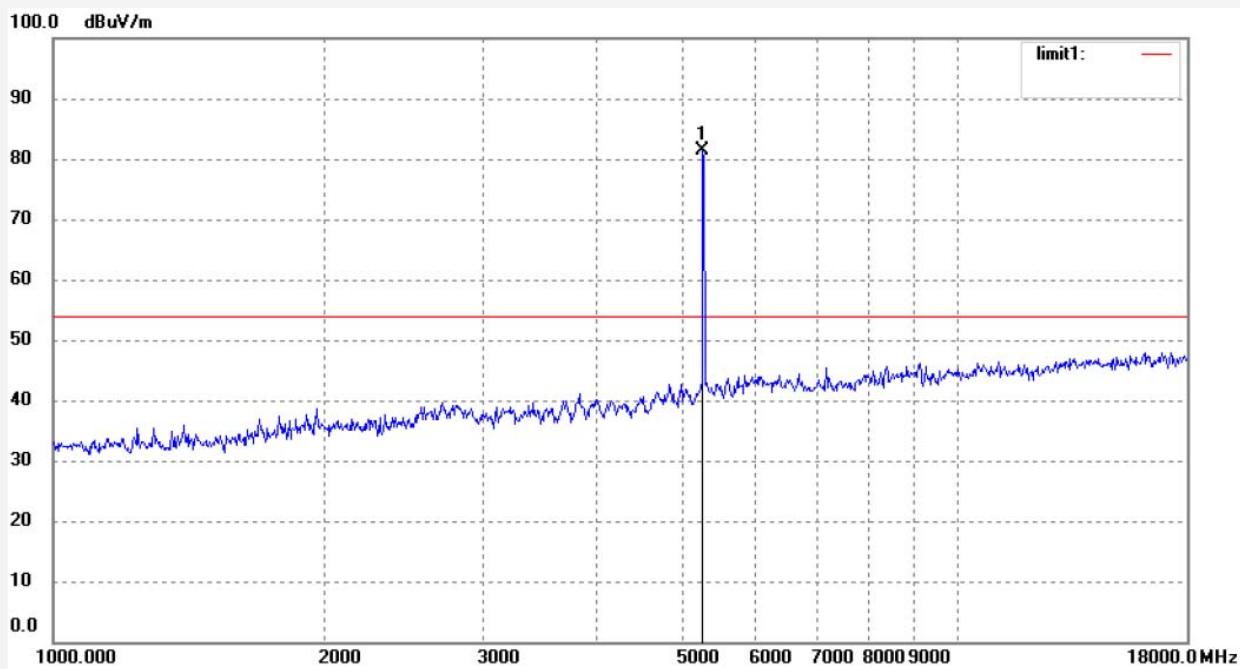
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #913  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: WiFi module  
Mode: TX Channel 48-A  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 17/50/03  
Engineer Signature: star  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.142	79.28	2.15	81.43			peak	200	148	



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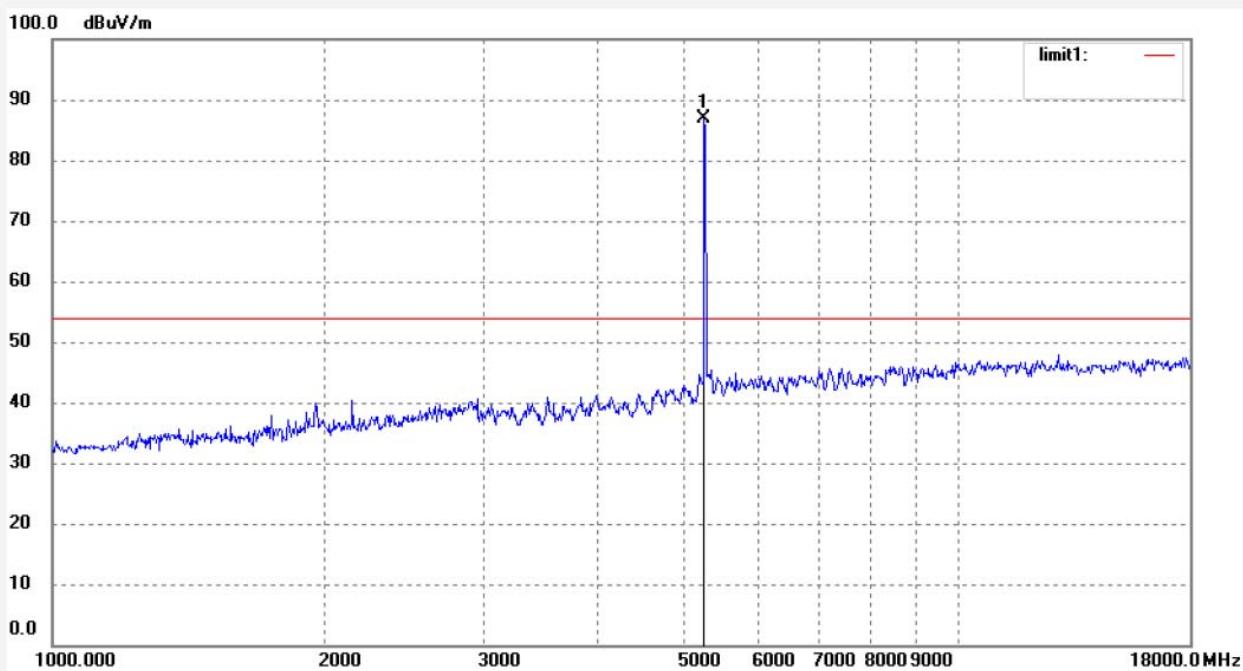
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #912  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: WiFi module  
Mode: TX Channel 48-A  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 17/48/02  
Engineer Signature: star  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.142	84.66	2.15	86.81			peak	150	191	



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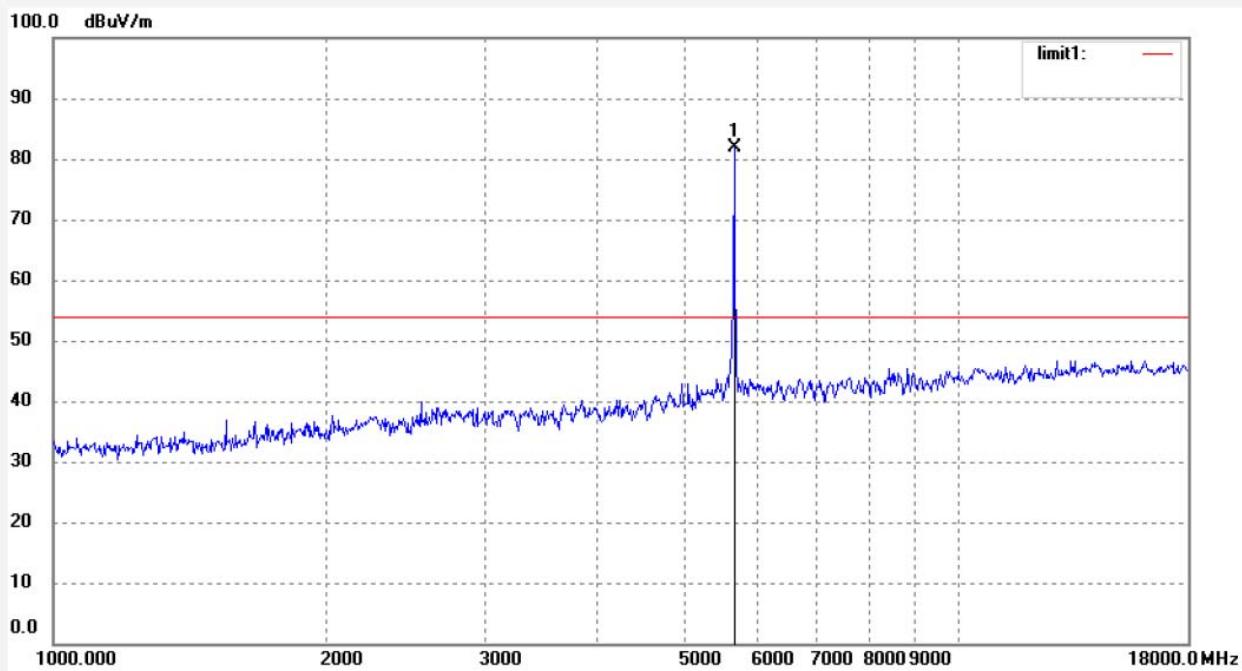
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #914  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: WiFi module  
Mode: TX Channel 149-A  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 17:52:41  
Engineer Signature: star  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	79.17	2.68	81.85			peak	200	76	



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

Job No.: STAR2017 #915

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 17/54/02

EUT: WiFi module

Engineer Signature: star

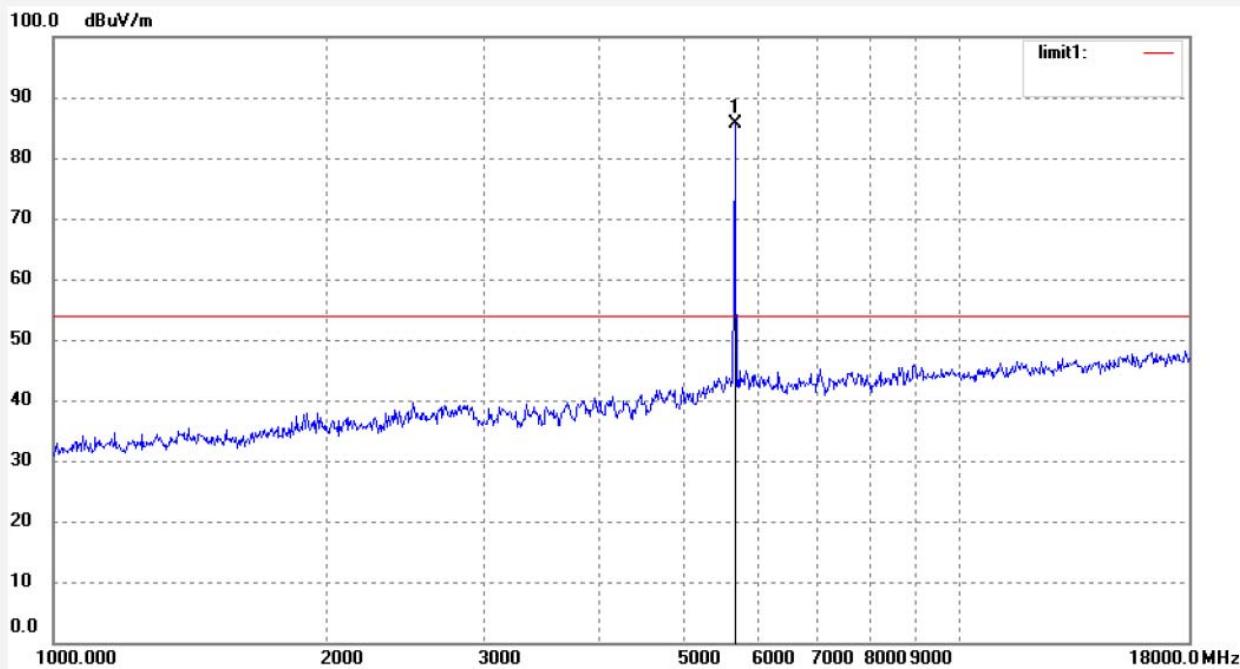
Mode: TX Channel 149-A

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	82.94	2.68	85.62			peak	150	112	



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

Job No.: STAR2017 #917

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 17/57/41

EUT: WiFi module

Engineer Signature: star

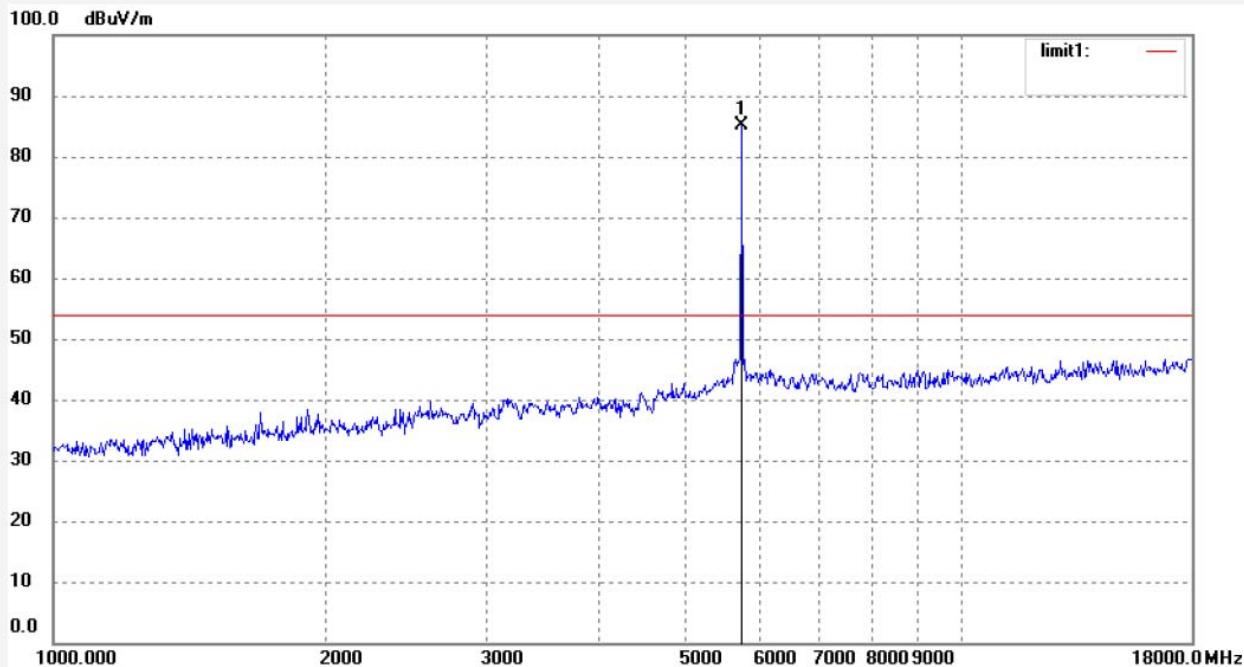
Mode: TX Channel 165-A

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.015	82.42	2.79	85.21			peak	200	65	



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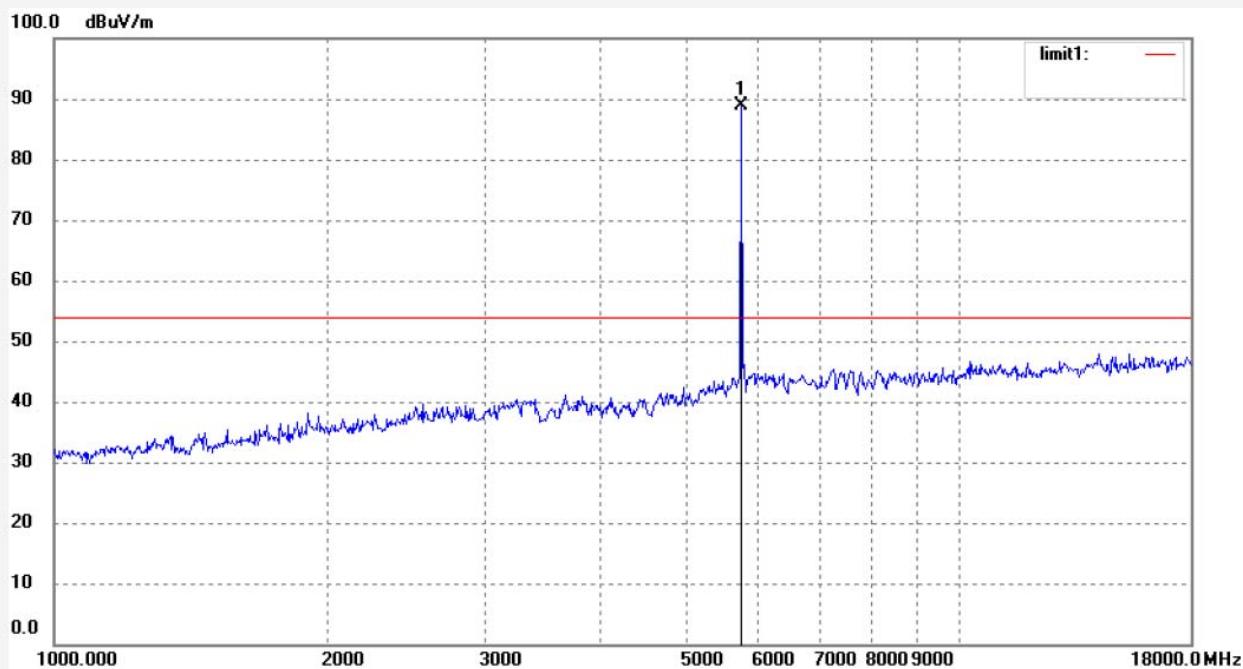
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #916  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: WiFi module  
Mode: TX Channel 165-A  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 17:55:54  
Engineer Signature: star  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.200	86.14	2.76	88.90			peak	150	345	



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

Job No.: STAR2017 #918

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/10/07

EUT: WiFi module

Engineer Signature: star

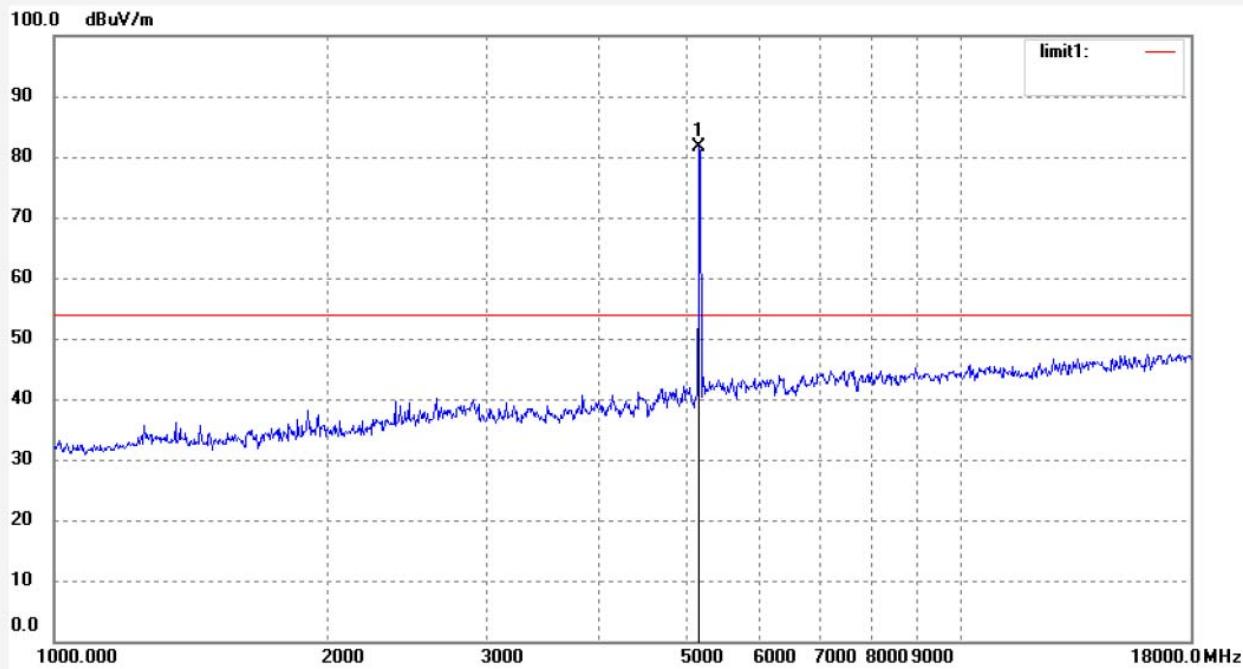
Mode: TX Channel 36-N 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.041	79.52	2.06	81.58			peak	200	175	



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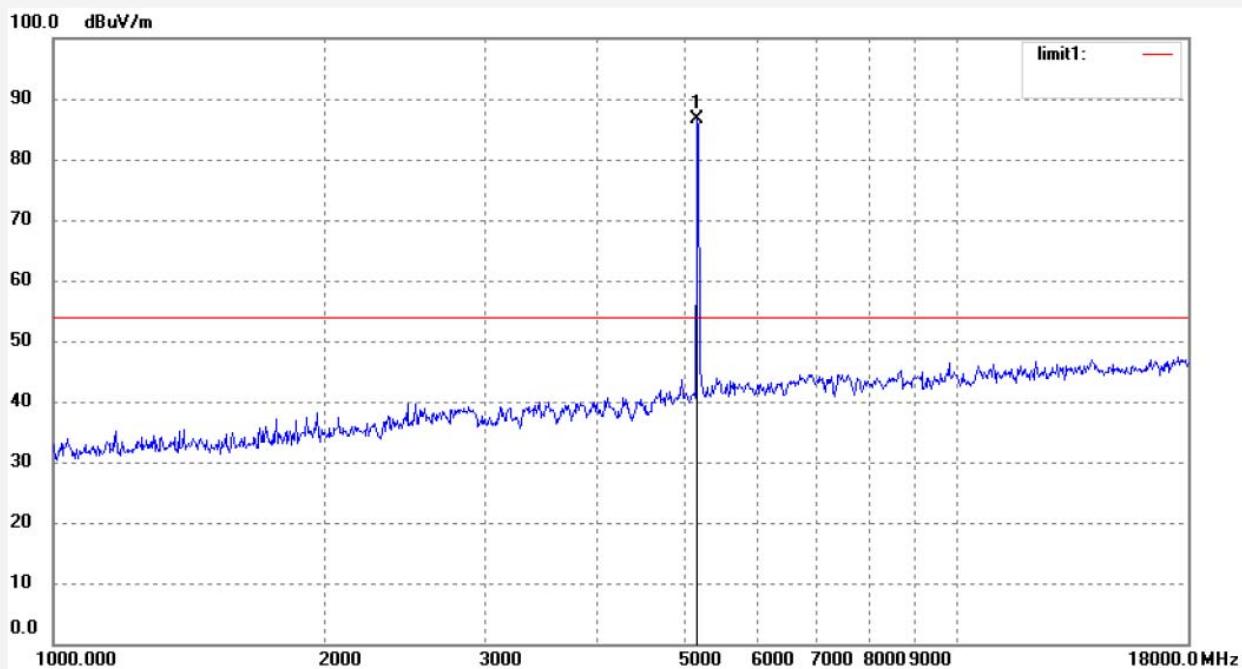
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #919  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: WiFi module  
Mode: TX Channel 36-N 20MHz  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 18/11/27  
Engineer Signature: star  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.041	84.63	2.06	86.69			peak	150	239	



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

Job No.: STAR2017 #921

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/14/48

EUT: WiFi module

Engineer Signature: star

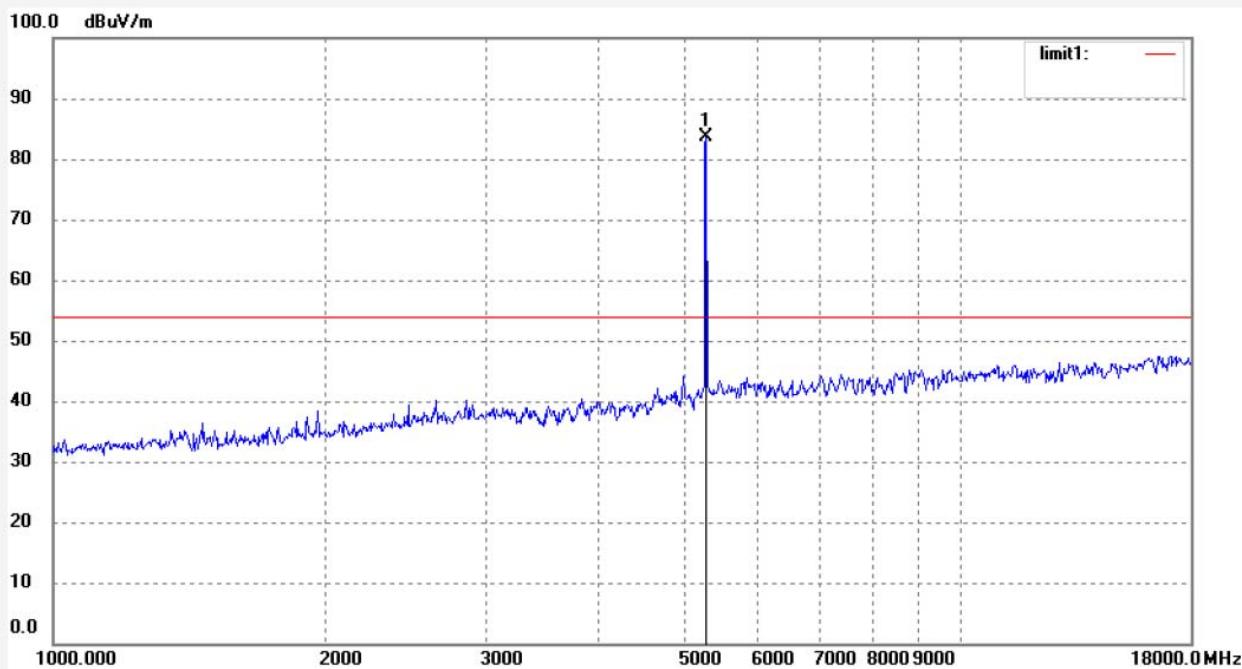
Mode: TX Channel 48-N 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.115	81.36	2.17	83.53			peak	200	135	



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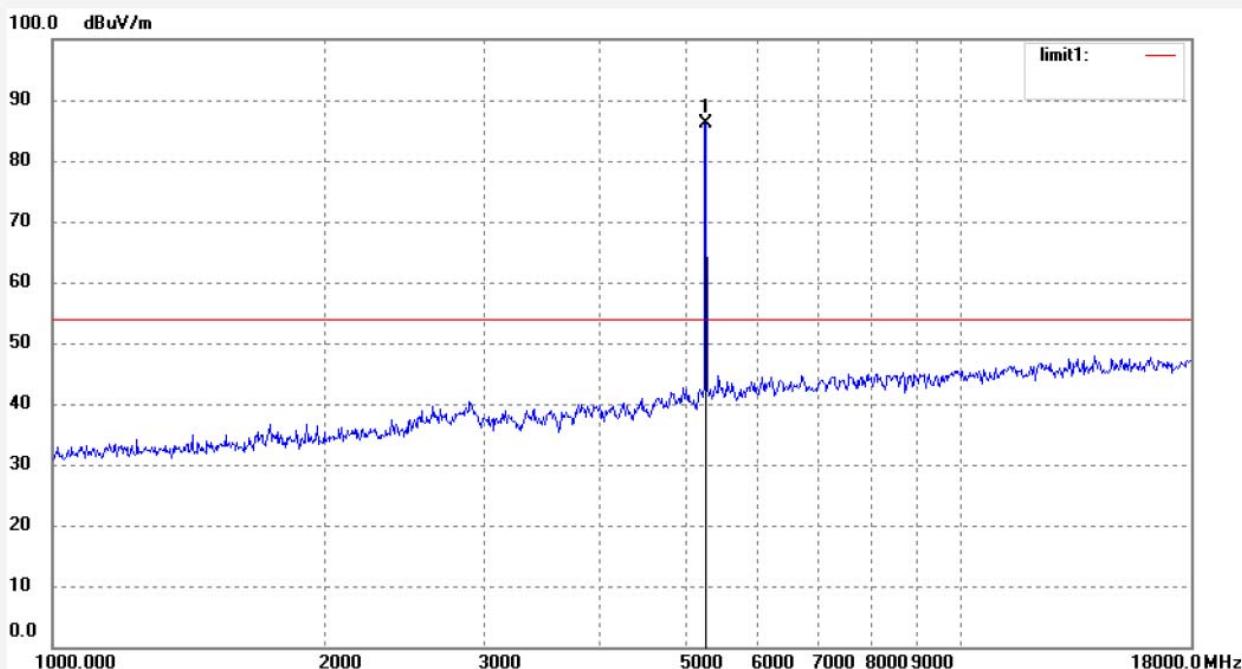
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #920  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: WiFi module  
Mode: TX Channel 48-N 20MHz  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 18/13/34  
Engineer Signature: star  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.115	84.08	2.17	86.25			peak	200	166	



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

Job No.: STAR2017 #922

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/16/46

EUT: WiFi module

Engineer Signature: star

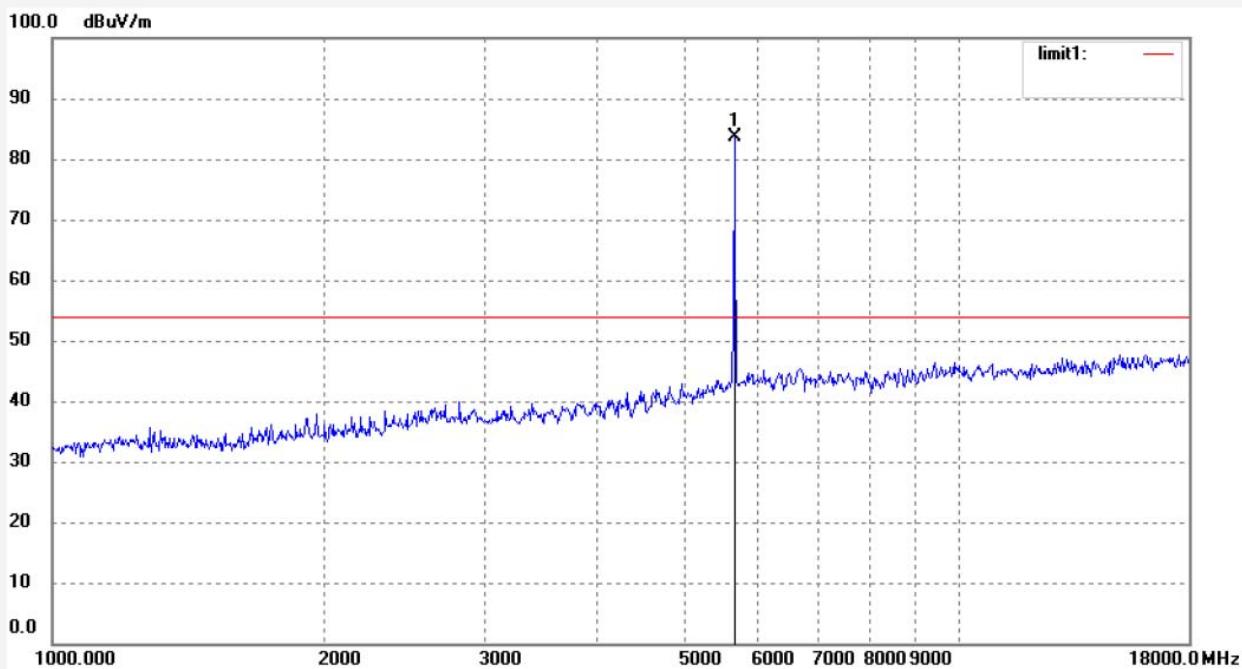
Mode: TX Channel 149-N 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.124	81.05	2.68	83.73			peak	200	255	



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

Job No.: STAR2017 #923

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/18/28

EUT: WiFi module

Engineer Signature: star

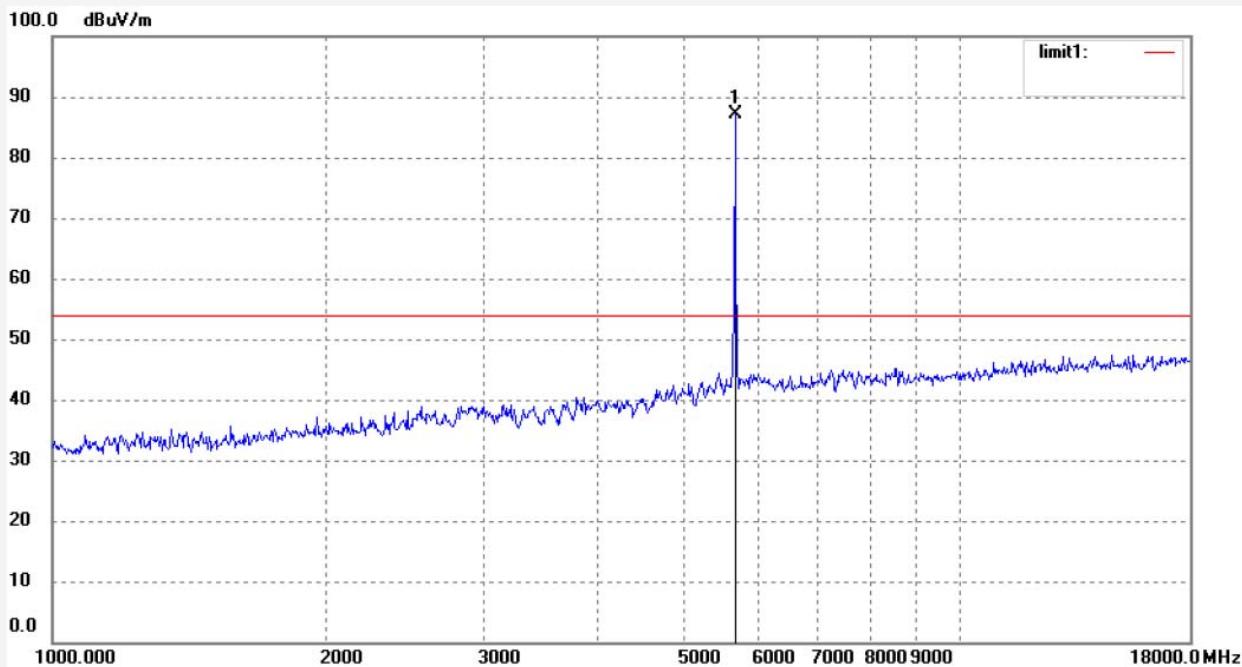
Mode: TX Channel 149-N 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	84.34	2.68	87.02			peak	150	312	



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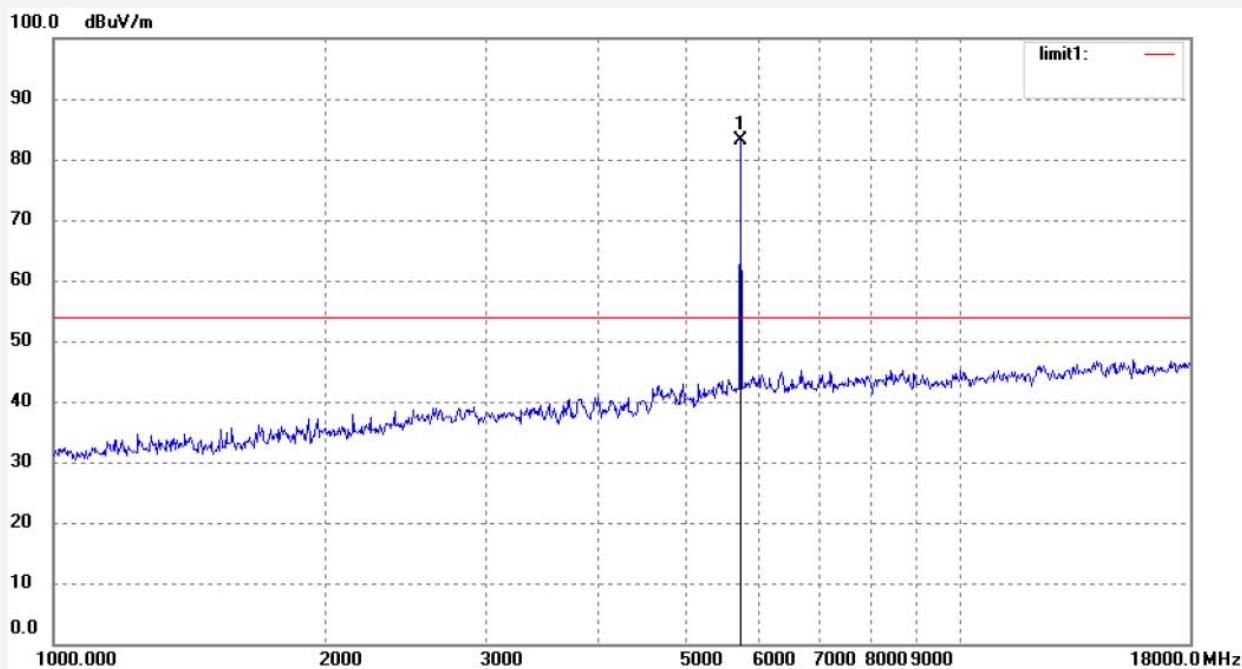
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #925  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: WiFi module  
Mode: TX Channel 165-N 20MHz  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 18/21/38  
Engineer Signature: star  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.200	80.29	2.76	83.05			peak	200	109	



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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #924

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/20/20

EUT: WiFi module

Engineer Signature: star

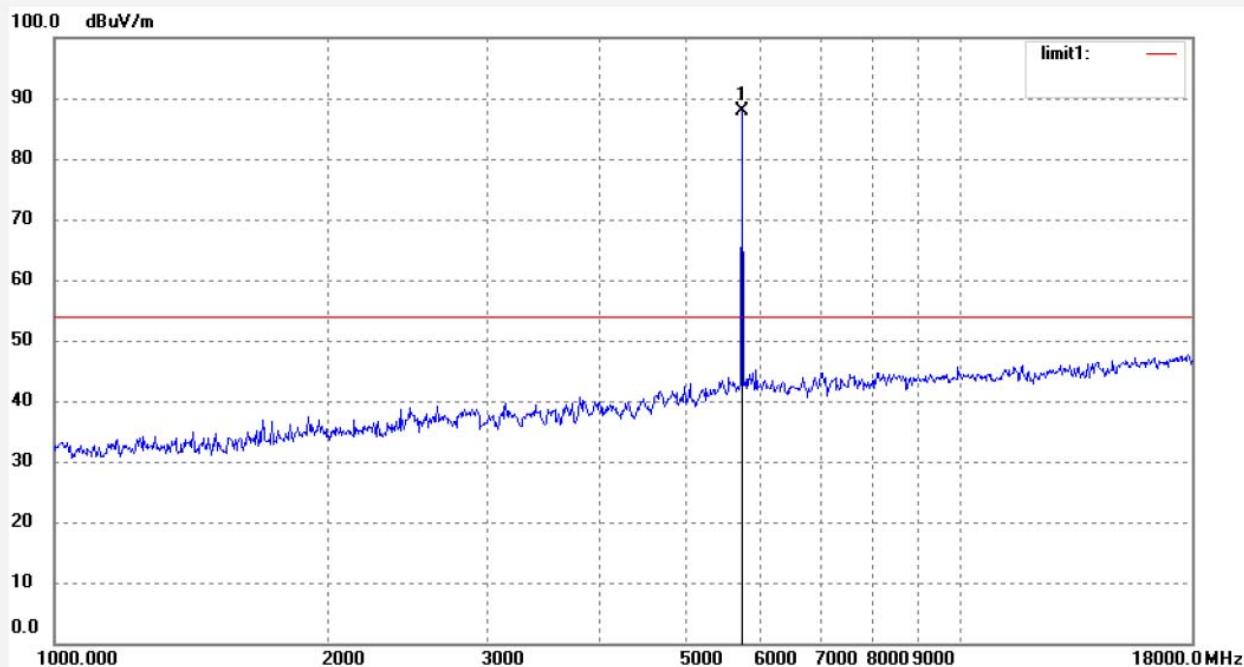
Mode: TX Channel 165-N 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.200	85.06	2.76	87.82			peak	150	72	



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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

Job No.: STAR2017 #926

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/31/23

EUT: WiFi module

Engineer Signature: star

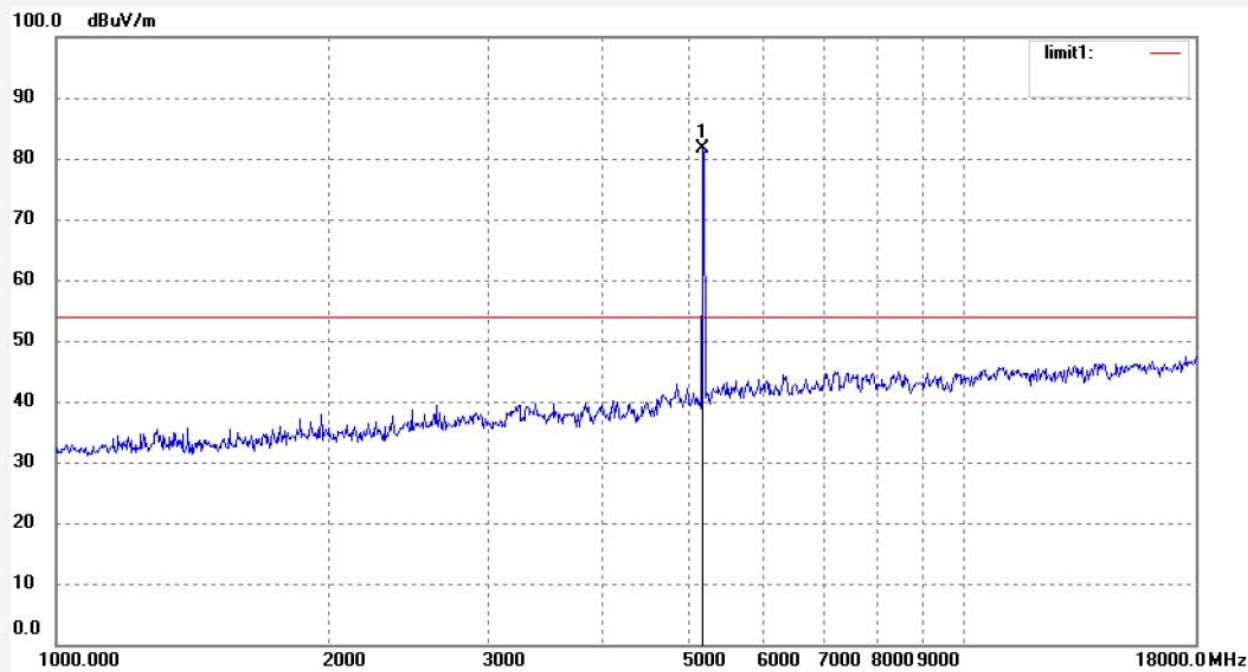
Mode: TX Channel 36-AC 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.041	79.67	2.06	81.73			peak	200	102	



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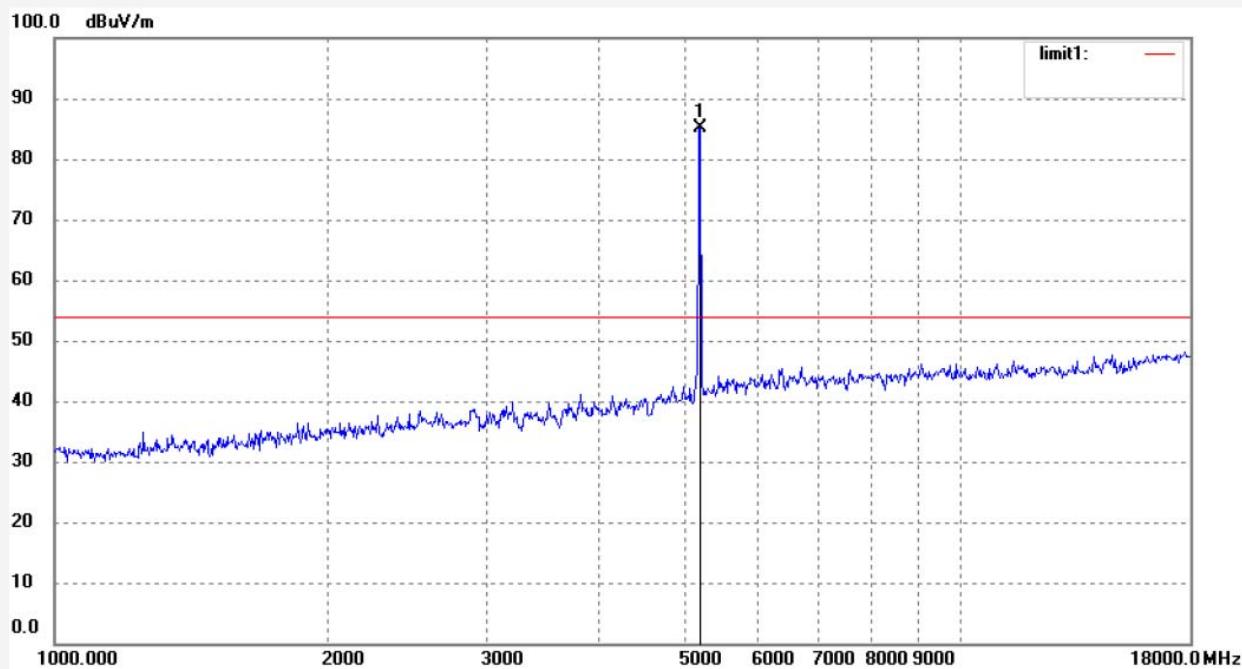
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #927  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: WiFi module  
Mode: TX Channel 36-AC 20MHz  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 18/32/43  
Engineer Signature: star  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5180.093	83.13	2.07	85.20			peak	150	328	



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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #929

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/36/24

EUT: WiFi module

Engineer Signature: star

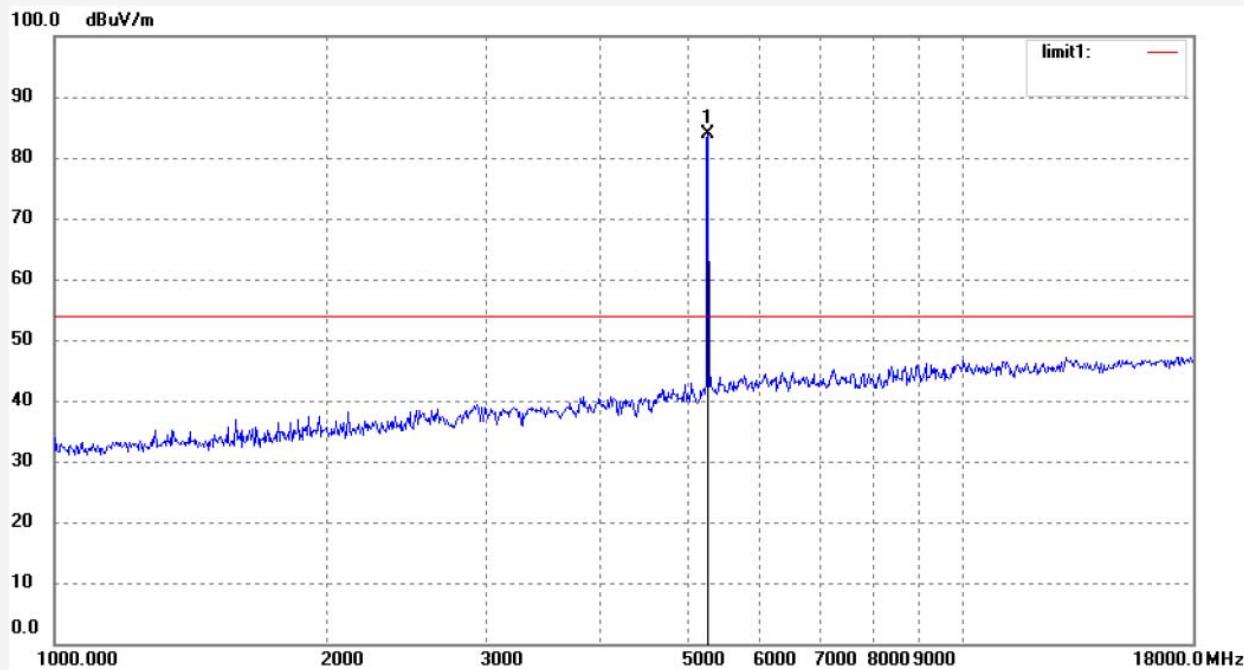
Mode: TX Channel 48-AC 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.015	81.67	2.17	83.84			peak	200	166	



## 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

Job No.: STAR2017 #928

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/34/55

EUT: WiFi module

Engineer Signature: star

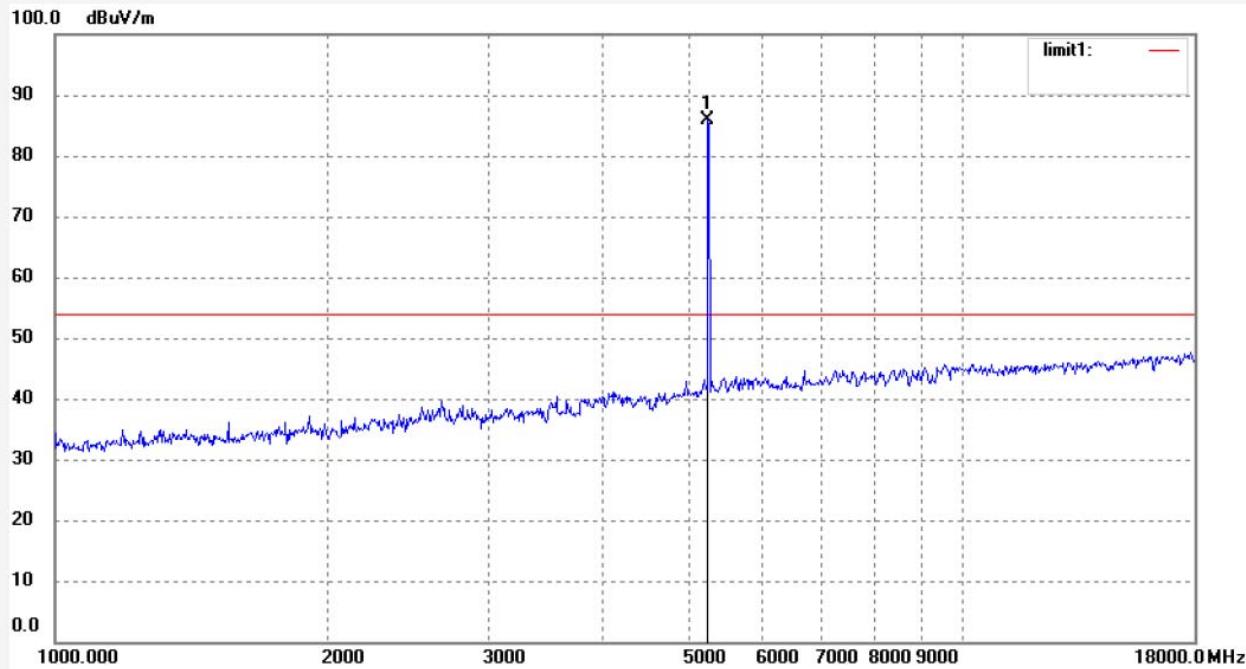
Mode: TX Channel 48-AC 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5240.042	83.76	2.15	85.91			peak	150	64	



## ACCURATE TECHNOLOGY CO., LTD.

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

Job No.: STAR2017 #930

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/38/22

EUT: WiFi module

Engineer Signature: star

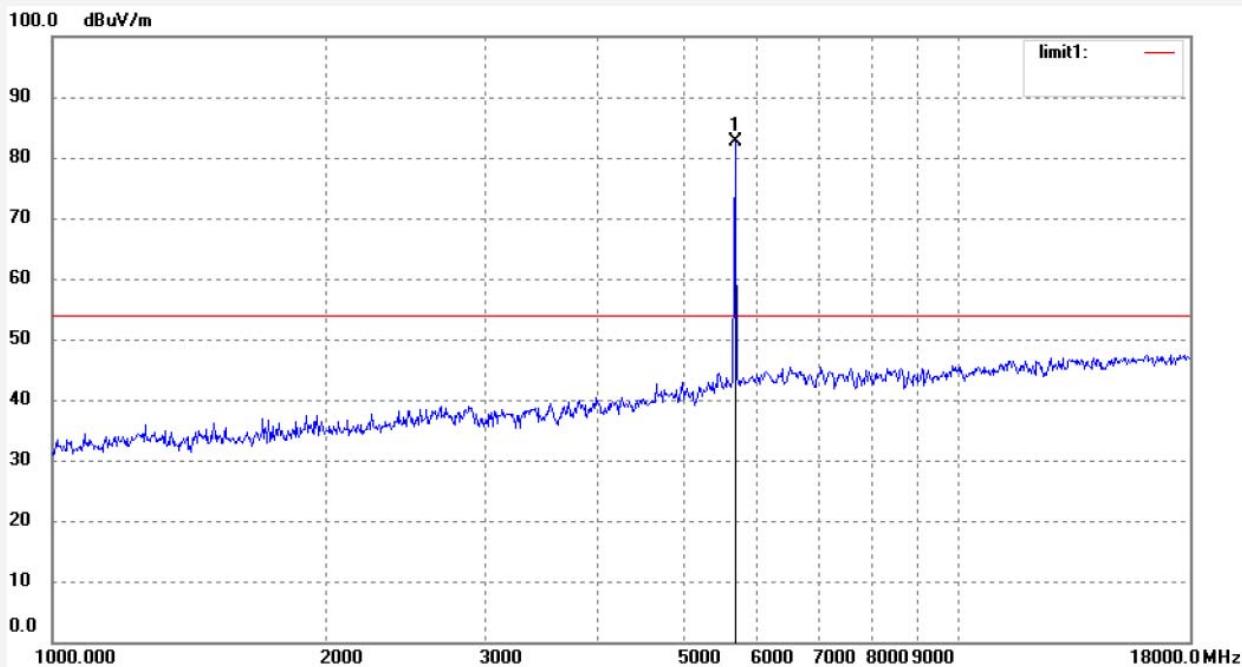
Mode: TX Channel 149-AC 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	80.01	2.68	82.69			peak	200	163	



## ACCURATE TECHNOLOGY CO., LTD.

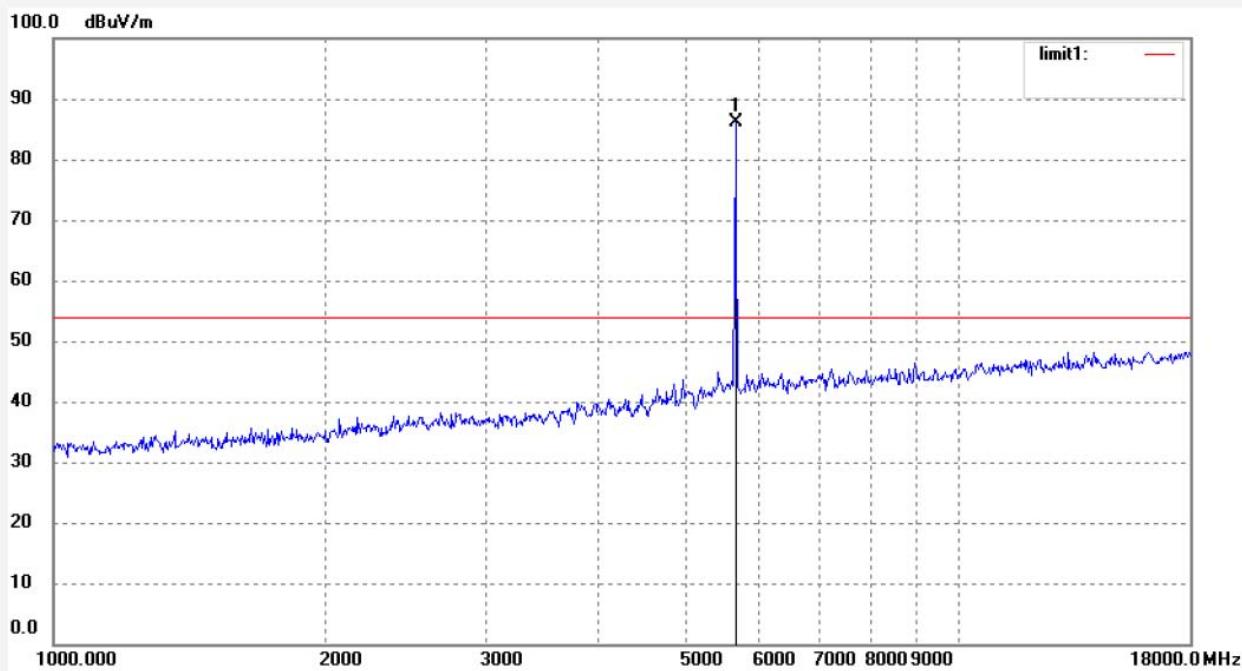
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: STAR2017 #931  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp. ( C)/Hum.(%) 25 C / 55 %  
EUT: WiFi module  
Mode: TX Channel 149-AC 20MHz  
Model: M632USA1  
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical  
Power Source: DC 3.3V  
Date: 2018/01/23  
Time: 18/40/01  
Engineer Signature: star  
Distance: 3m

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5745.024	83.35	2.68	86.03			peak	150	209	



## 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

Job No.: STAR2017 #932

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 3.3V

Test item: Radiation Test

Date: 2018/01/23

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

Time: 18/42/19

EUT: WiFi module

Engineer Signature: star

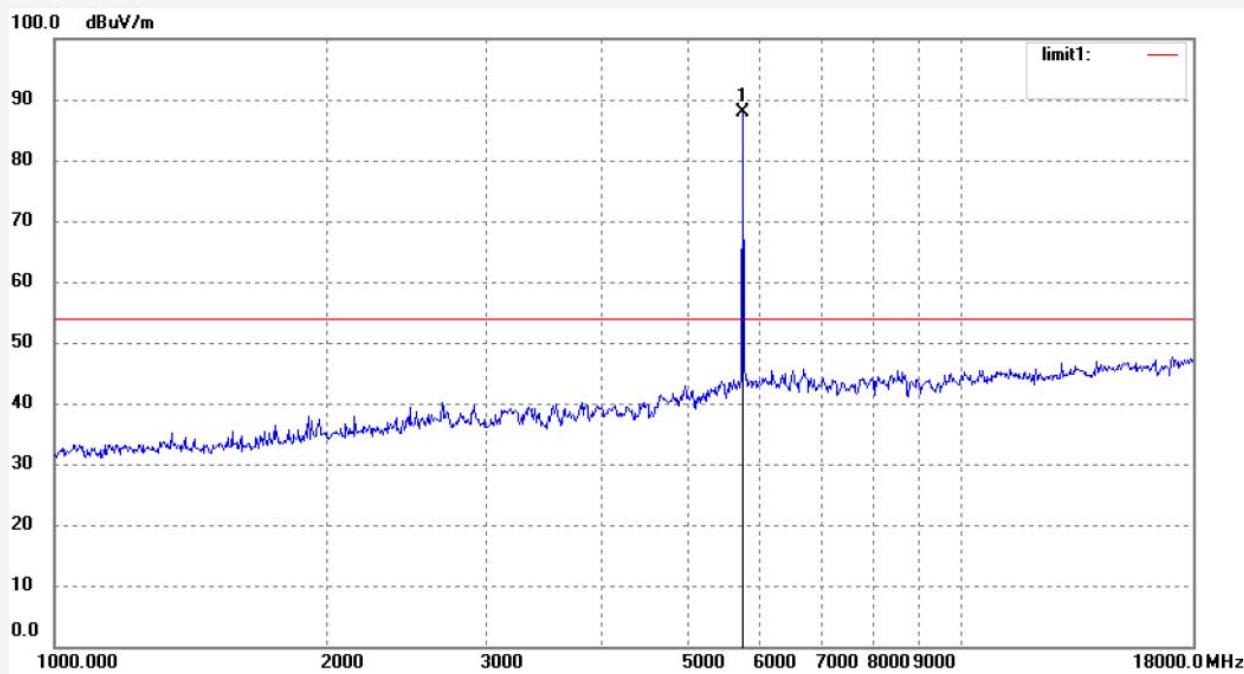
Mode: TX Channel 165-AC 20MHz

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172554



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5825.015	85.10	2.79	87.89	55		peak	150	226	