



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.: frank2018 #131

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 18/01/26/

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

Time: 9/13/34

EUT: Wifi module

Engineer Signature:

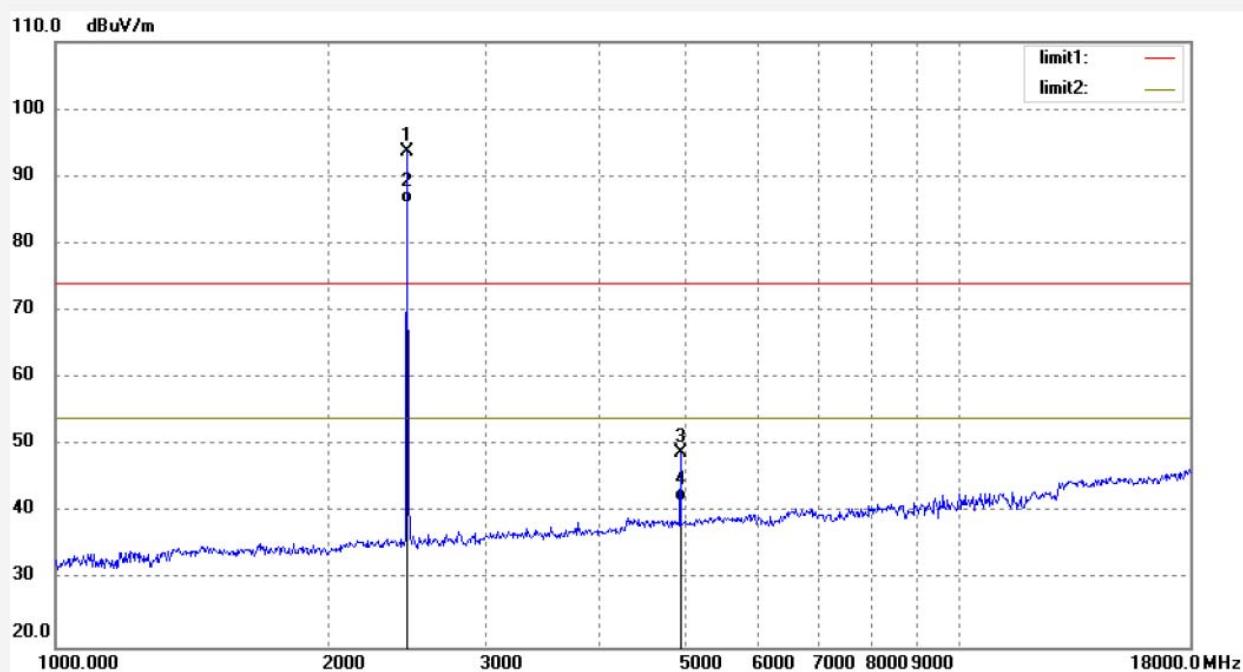
Mode: TX 2480MHz(1/4 DQPSK)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.034	97.83	-4.04	93.79			peak	200	34	
2	2480.034	90.15	-4.04	86.11			AVG	150	195	
3	4960.064	45.31	3.50	48.81	74.00	-25.19	peak	200	257	
4	4960.064	38.18	3.50	41.68	54.00	-12.32	AVG	150	123	

Job No.: frank2018 #137

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 18/01/26/

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

Time: 9/19/26

EUT: Wifi module

Engineer Signature:

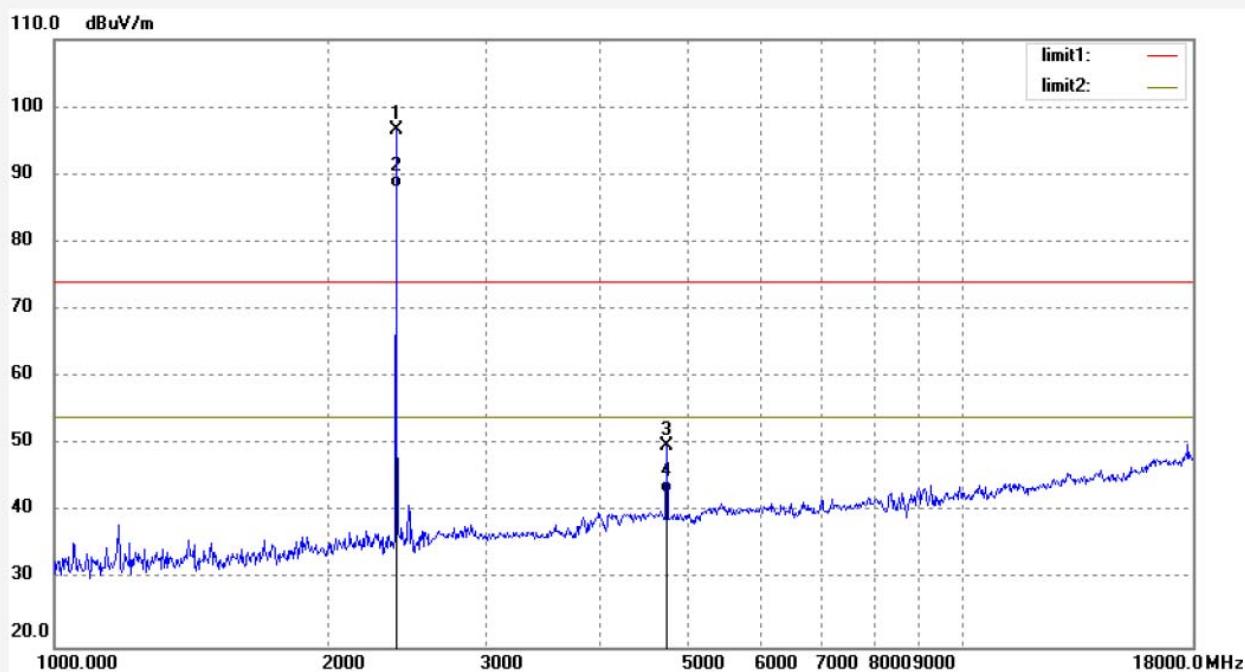
Mode: TX 2402MHz(8DPSK)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552

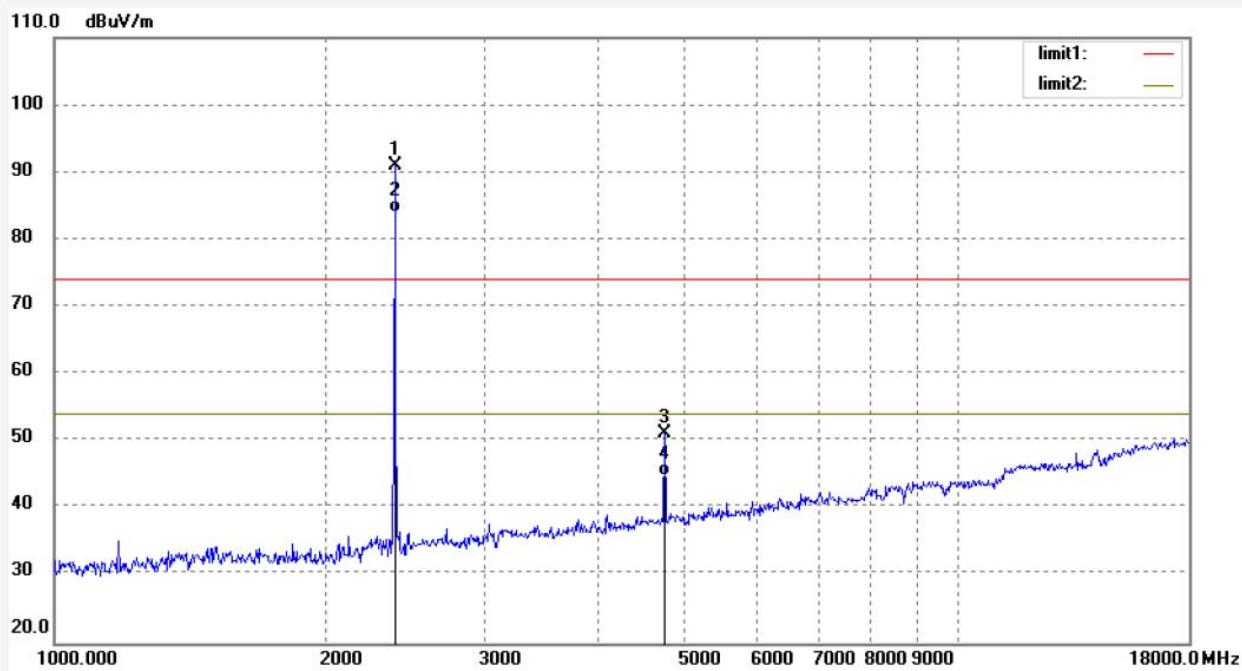


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.119	100.92	-4.37	96.55			peak	250	132	
2	2402.119	92.34	-4.37	87.97			AVG	250	102	
3	4804.257	47.22	2.70	49.92	74.00	-24.08	peak	250	87	
4	4804.257	40.12	2.70	42.82	54.00	-11.18	AVG	250	245	

Job No.: frank2018 #138
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: TX 2402MHz(8DPSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9/20/07
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172552

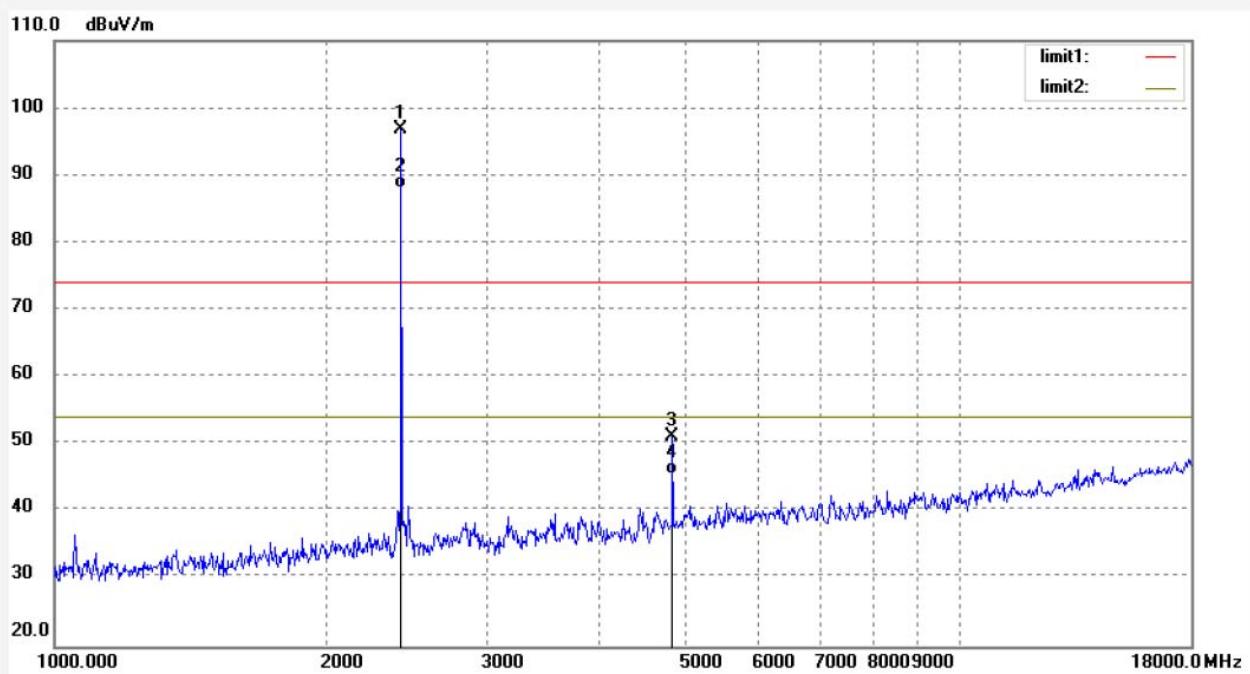


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.119	95.32	-4.37	90.95			peak	150	138	
2	2402.119	88.38	-4.37	84.01			AVG	150	248	
3	4804.257	48.51	2.70	51.21	74.00	-22.79	peak	150	347	
4	4804.257	42.18	2.70	44.88	54.00	-9.12	AVG	150	298	

Job No.: frank2018 #140
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: TX 2441MHz(8DPSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9/21/54
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172552

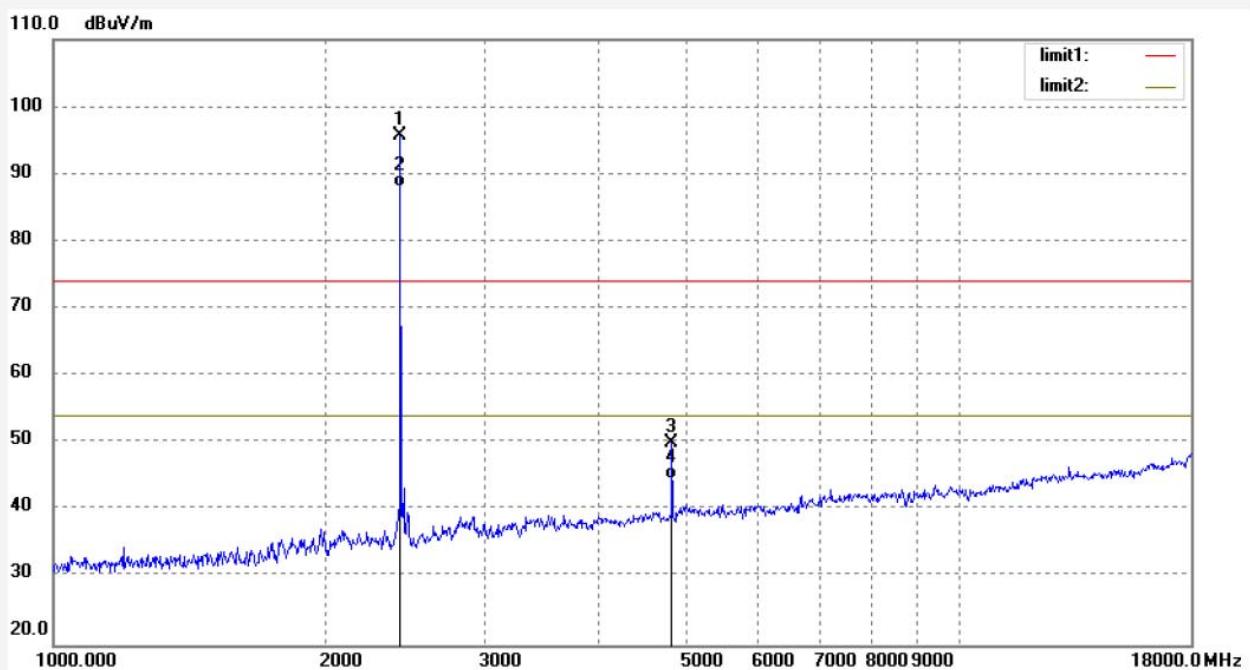


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.121	101.06	-4.20	96.86			peak	200	132	
2	2441.121	92.32	-4.20	88.12			AVG	200	197	
3	4882.224	48.09	3.07	51.16	74.00	-22.84	peak	250	46	
4	4882.224	42.38	3.07	45.45	54.00	-8.55	AVG	250	245	

Job No.: frank2018 #139
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: TX 2441MHz(8DPSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9/21/19
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172552



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.121	99.93	-4.20	95.73			peak	250	132	
2	2441.121	92.35	-4.20	88.15			AVG	250	97	
3	4882.224	47.06	3.07	50.13	74.00	-23.87	peak	250	274	
4	4882.224	41.59	3.07	44.66	54.00	-9.34	AVG	250	140	

Job No.: frank2018 #141

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 18/01/26/

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

Time: 9/22/41

EUT: Wifi module

Engineer Signature:

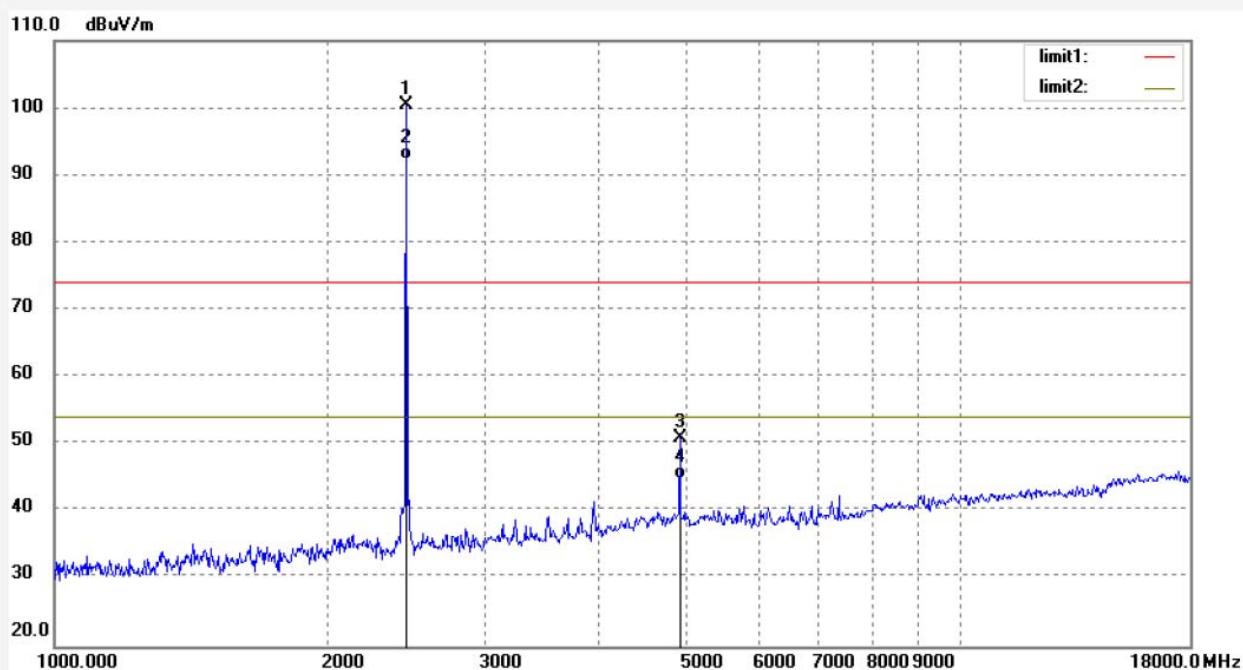
Mode: TX 2480MHz(8DPSK)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552

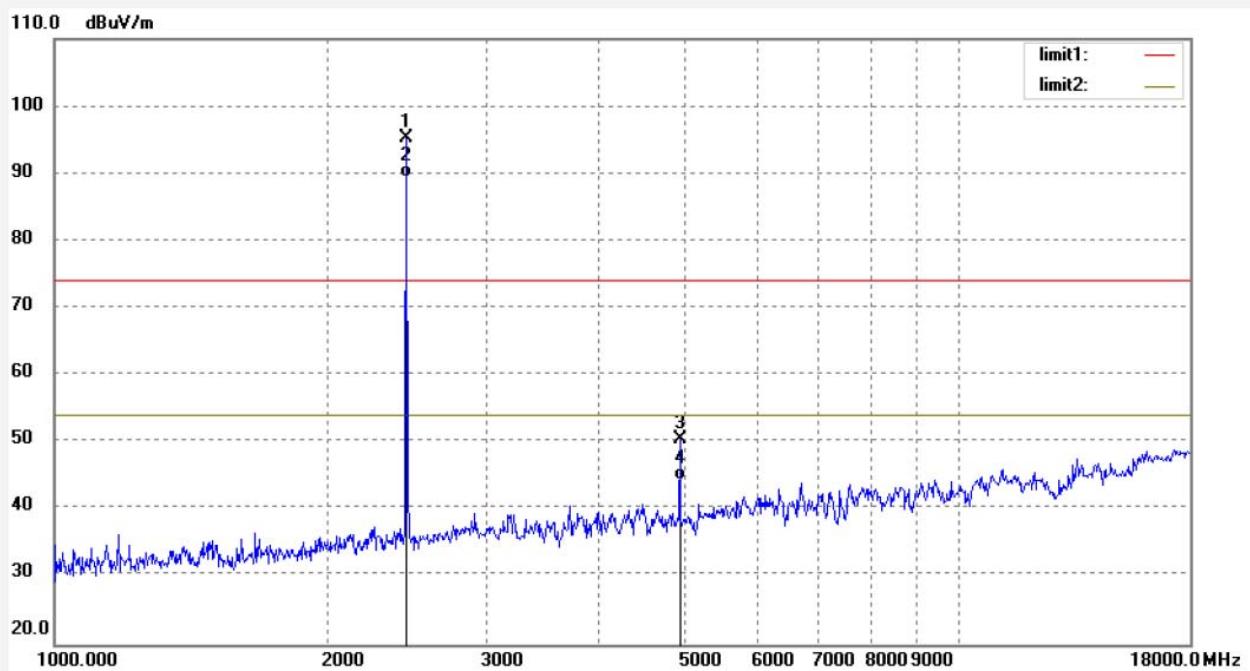


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.034	104.56	-4.04	100.52			peak	250	82	
2	2480.034	96.45	-4.04	92.41			AVG	250	134	
3	4960.064	47.52	3.50	51.02	74.00	-22.98	peak	250	248	
4	4960.064	41.38	3.50	44.88	54.00	-9.12	AVG	250	102	

Job No.: frank2018 #142
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: TX 2480MHz(8DPSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9/23/24
 Engineer Signature:
 Distance: 3m

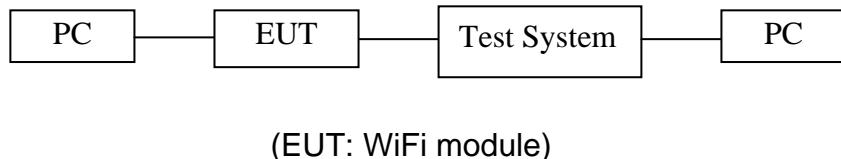
Note: Report NO.:ATE20172552



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.034	99.32	-4.04	95.28			peak	150	132	
2	2480.034	93.48	-4.04	89.44			AVG	150	27	
3	4960.064	46.93	3.50	50.43	74.00	-23.57	peak	150	187	
4	4960.064	40.99	3.50	44.49	54.00	-9.51	AVG	150	345	

11.BAND EDGE COMPLIANCE TEST

11.1.Block Diagram of Test Setup



11.2.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).

11.3.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.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

11.5. Test Procedure

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

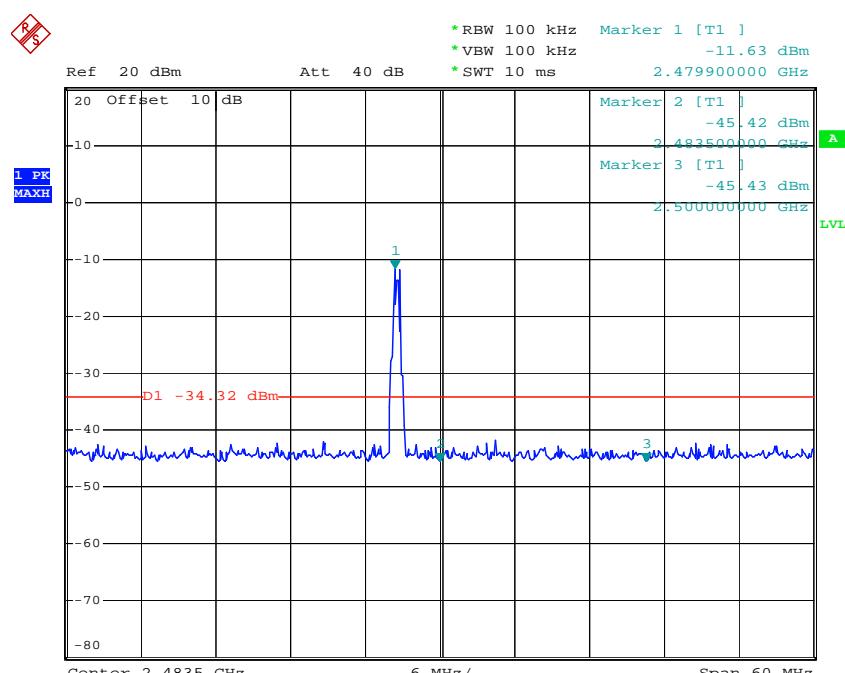
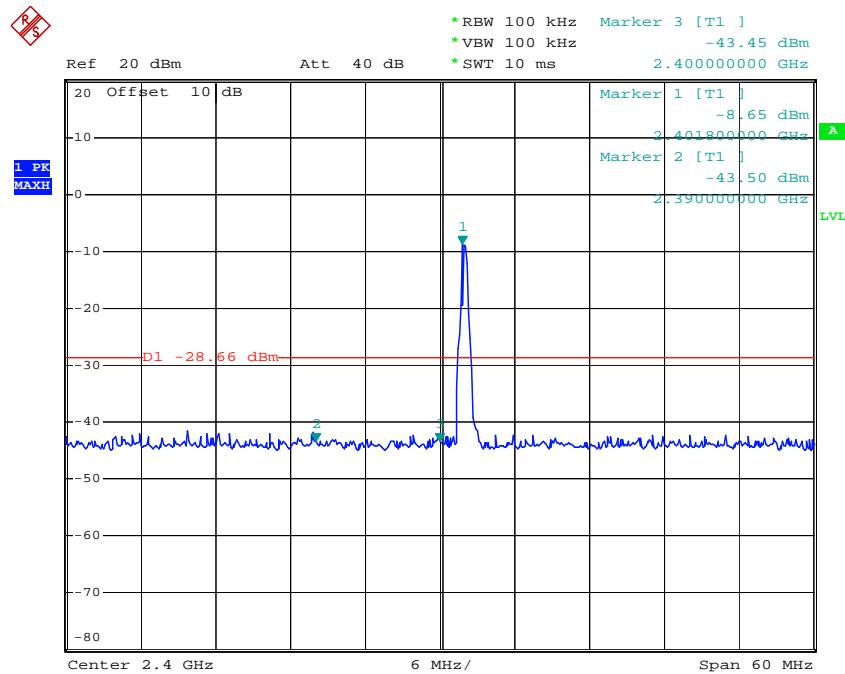
11.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

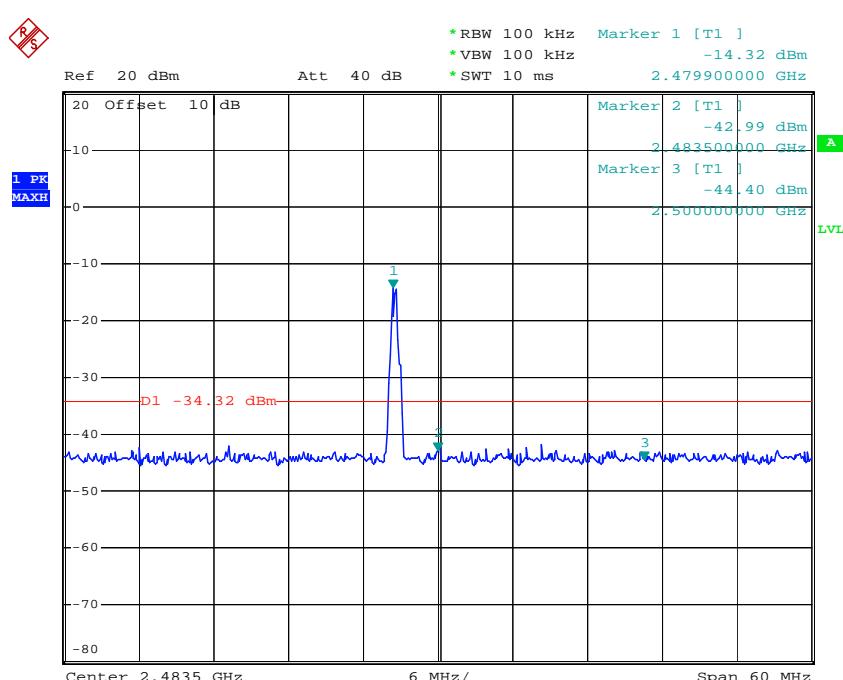
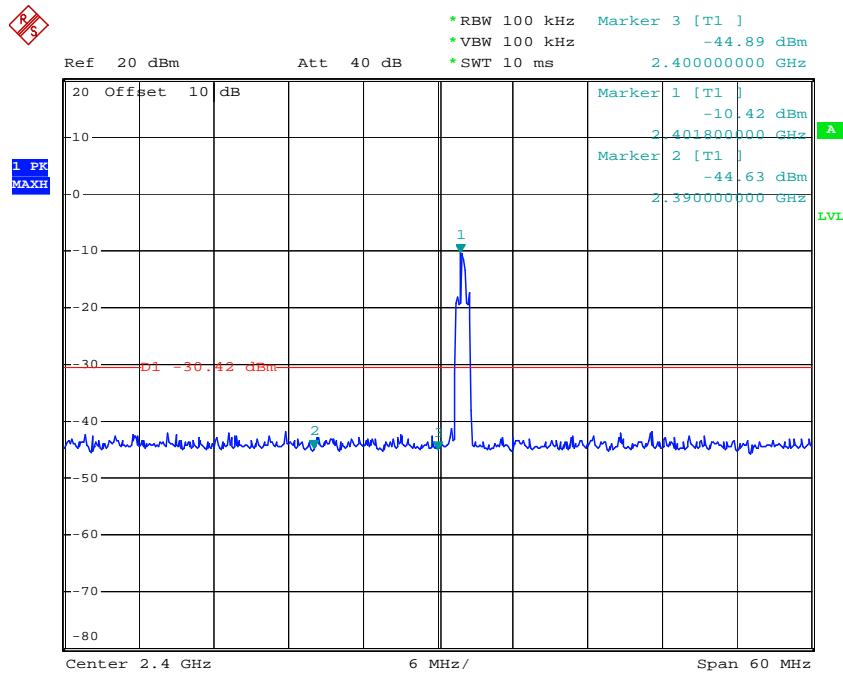
11.5.3. The band edges was measured and recorded.

11.6. Test Result

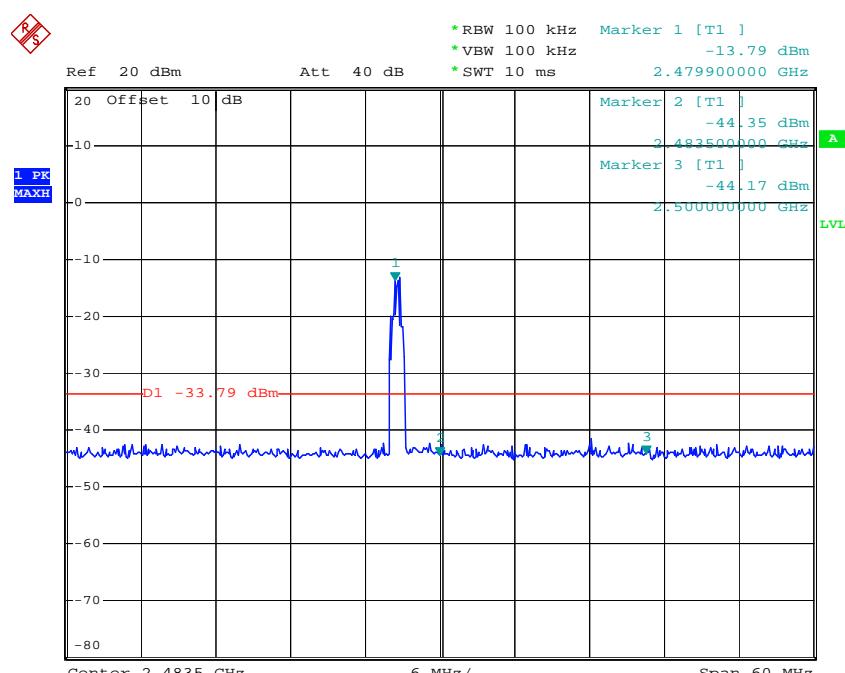
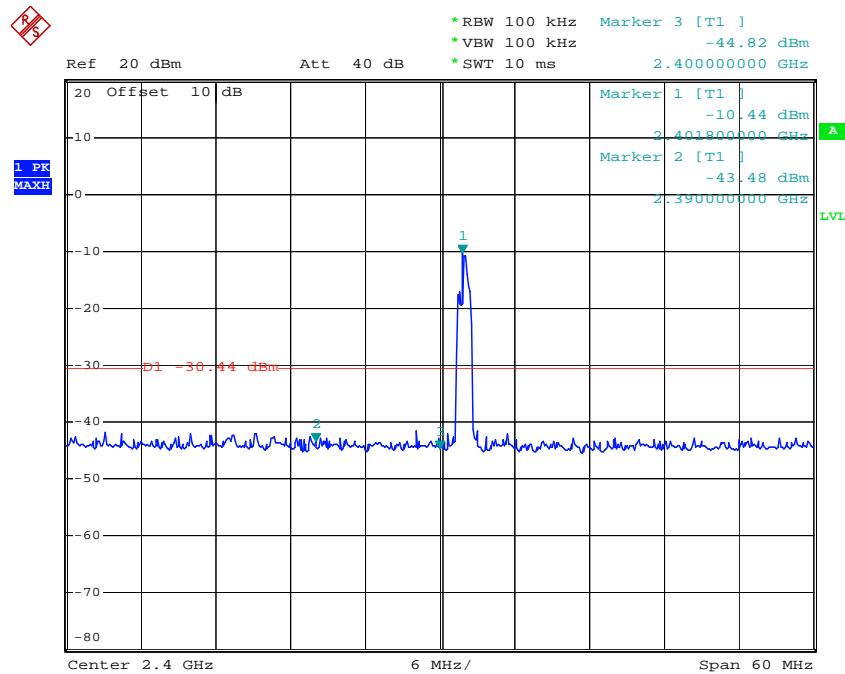
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
GFSK		
2400.00	34.80	> 20dBc
2483.50	33.79	> 20dBc
$\Pi/4$ DQPSK Mode		
2400.00	34.47	> 20dBc
2483.50	28.67	> 20dBc
8DPSK		
2400.00	34.38	> 20dBc
2483.50	30.56	> 20dBc

GFSK



$\Pi/4$ DQPSK Mode

8DPSK



Radiated Band Edge Result

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 (Hopping off, Hopping on) modes measure it.
We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).
We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

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.

Non-hopping mode



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.: frank2018 #147

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 18/01/26/

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

Time: 9/32/38

EUT: Wifi module

Engineer Signature:

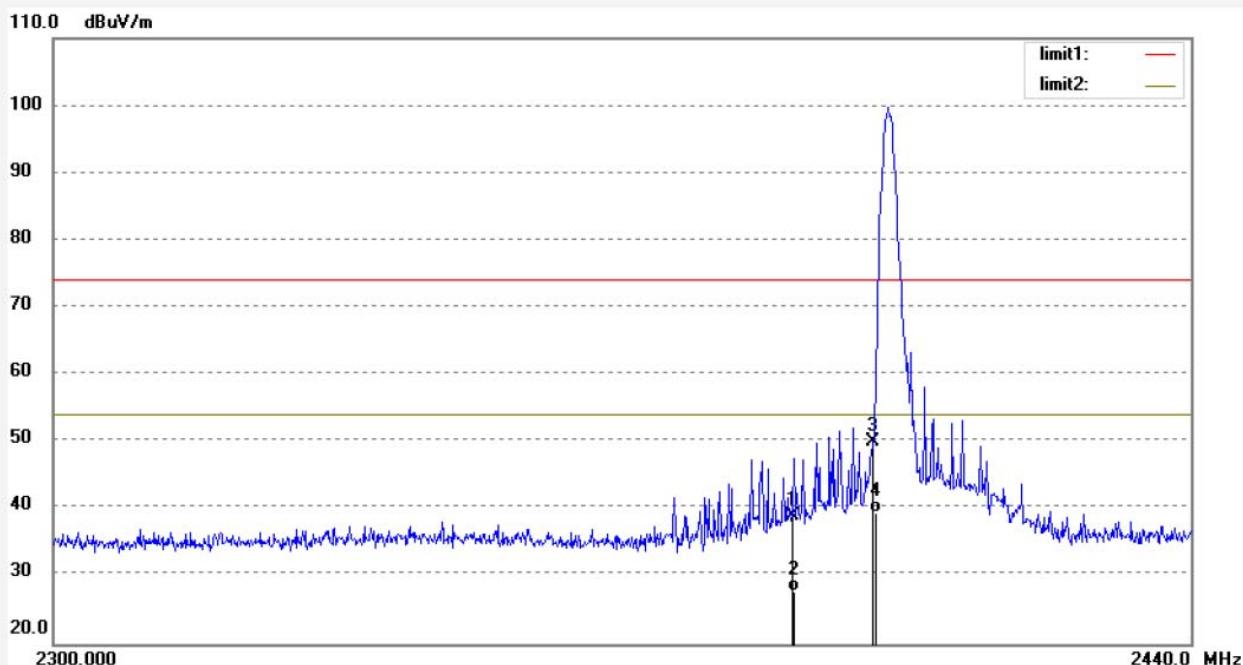
Mode: TX 2402MHz(GSFK)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552



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	43.34	-4.32	39.02	74.00	-34.98	peak	250	25	
2	2390.000	32.15	-4.32	27.83	54.00	-26.17	AVG	200	187	
3	2400.000	54.34	-4.27	50.07	74.00	-23.93	peak	250	243	
4	2400.000	43.84	-4.27	39.57	54.00	-14.43	AVG	250	134	



ACCURATE TECHNOLOGY CO., LTD.

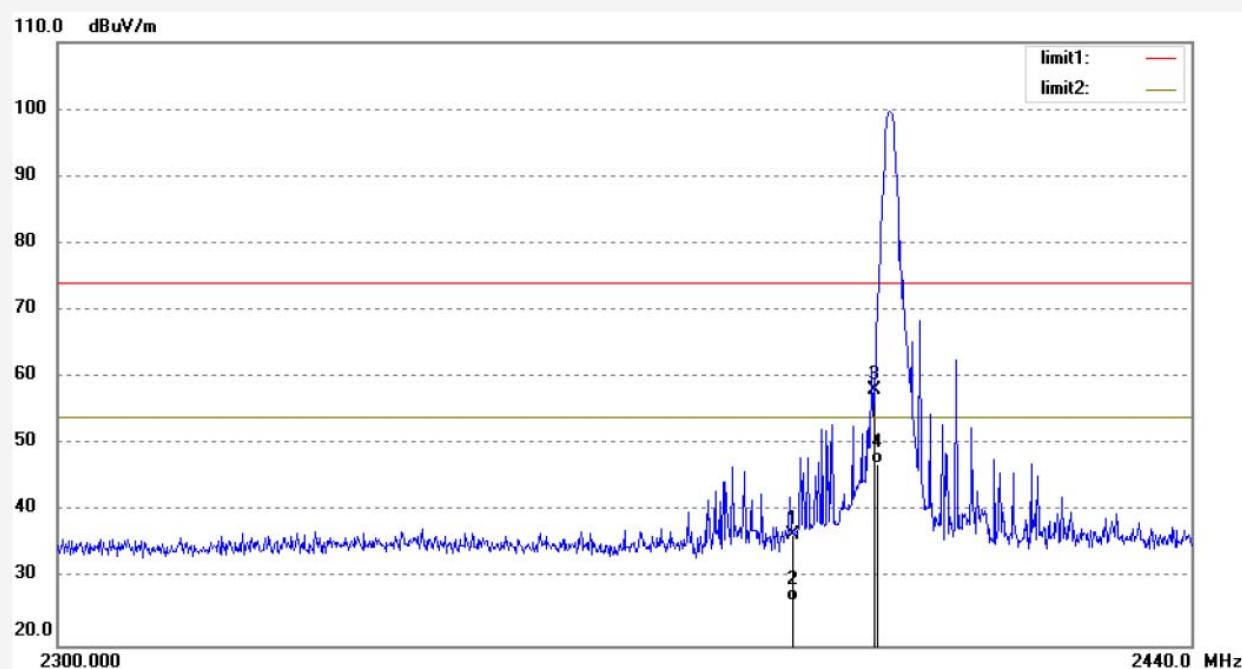
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: frank2018 #148
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Wifi module
Mode: TX 2402MHz(GSFK)
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
Power Source: DC 3.3V
Date: 18/01/26/
Time: 9/34/05
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20172552

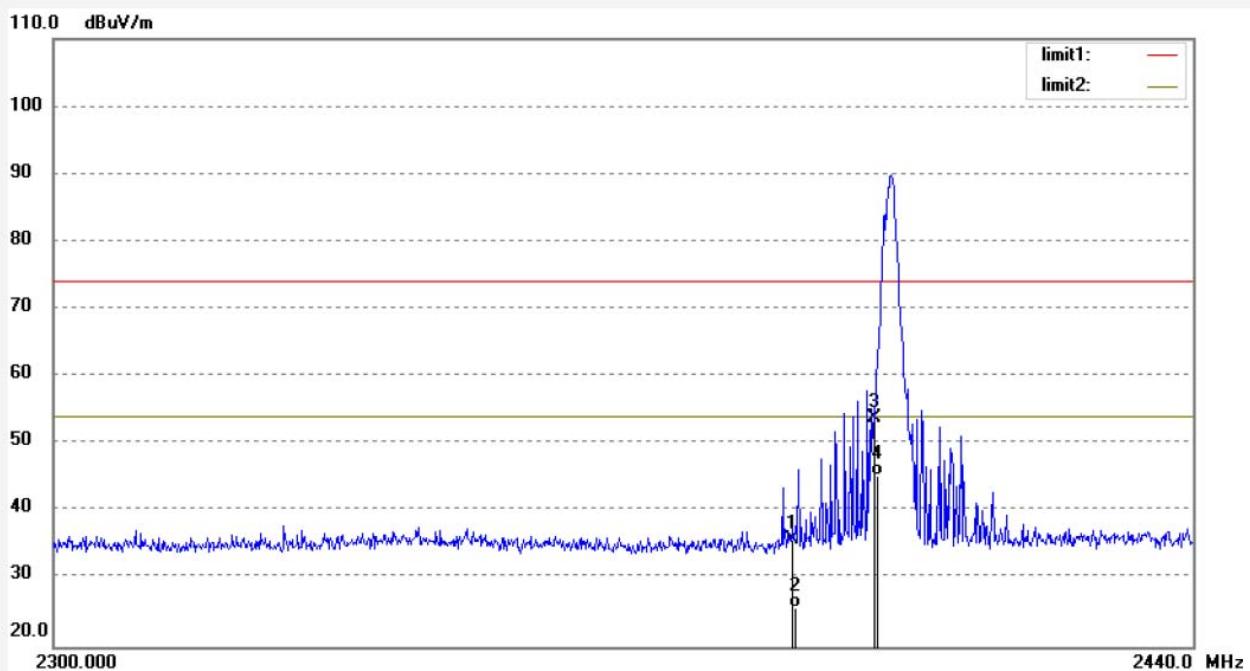


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	40.84	-4.32	36.52	74.00	-37.48	peak	250	132	
2	2390.000	31.02	-4.32	26.70	54.00	-27.30	AVG	150	122	
3	2400.000	62.47	-4.27	58.20	74.00	-15.80	peak	200	91	
4	2400.000	51.37	-4.27	47.10	54.00	-6.90	AVG	150	157	

Job No.: frank2018 #150
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: TX 2402MHz(1/4 DQPSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9/36/52
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172552



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	40.23	-4.32	35.91	74.00	-38.09	peak	200	146	
2	2390.000	30.15	-4.32	25.83	54.00	-28.17	AVG	200	278	
3	2400.000	58.18	-4.27	53.91	74.00	-20.09	peak	250	93	
4	2400.000	49.65	-4.27	45.38	54.00	-8.62	AVG	200	144	



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.: frank2018 #149

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 18/01/26/

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

Time: 9/36/01

EUT: Wifi module

Engineer Signature:

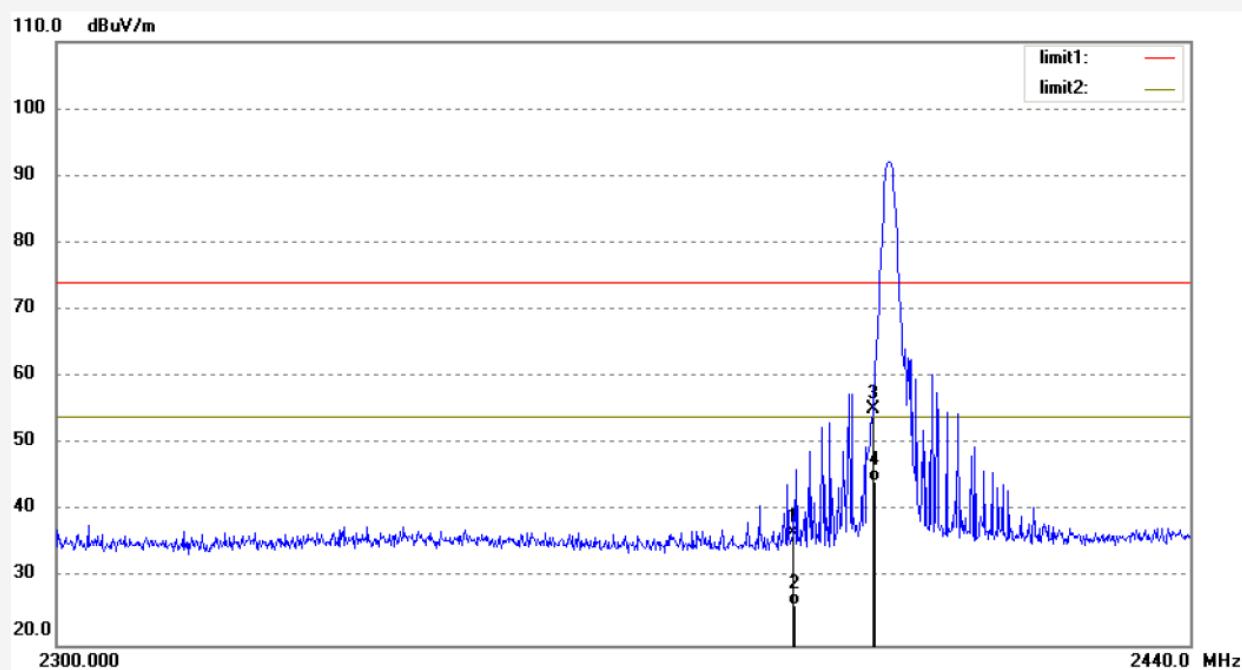
Mode: TX 2402MHz(1/4 DQPSK)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552



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	41.13	-4.32	36.81	74.00	-37.19	peak	200	32	
2	2390.000	30.25	-4.32	25.93	54.00	-28.07	AVG	150	124	
3	2400.000	59.43	-4.27	55.16	74.00	-18.84	peak	150	97	
4	2400.000	48.68	-4.27	44.41	54.00	-9.59	AVG	150	61	



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.: frank2018 #151 Polarization: Horizontal

Standard: FCC PK Power Source: DC 3.3V

Test item: Radiation Test Date: 18/01/26/

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

Time: 9/38/06

EUT: Wifi module

Engineer Signature:

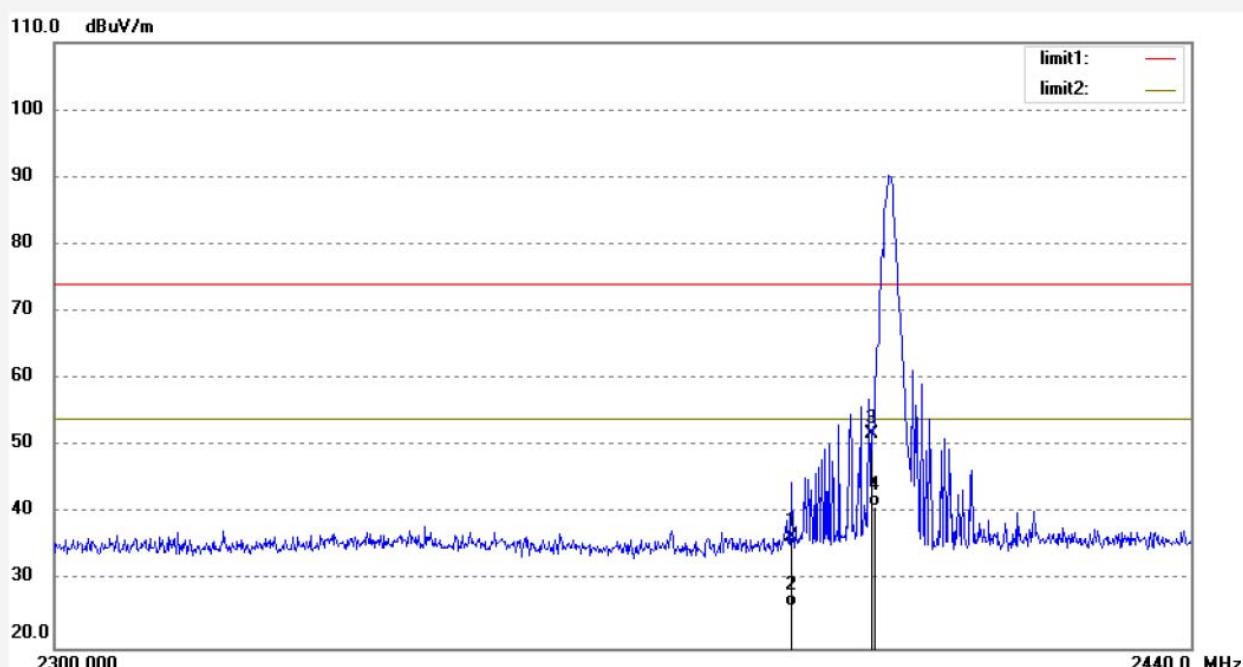
Mode: TX 2402MHz(8DPSK)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552



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	40.89	-4.32	36.57	74.00	-37.43	peak	250	134	
2	2390.000	30.55	-4.32	26.23	54.00	-27.77	AVG	200	102	
3	2400.000	56.04	-4.27	51.77	74.00	-22.23	peak	250	75	
4	2400.000	45.35	-4.27	41.08	54.00	-12.92	AVG	250	309	

Job No.: frank2018 #152

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 18/01/26/

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

Time: 9/38/56

EUT: Wifi module

Engineer Signature:

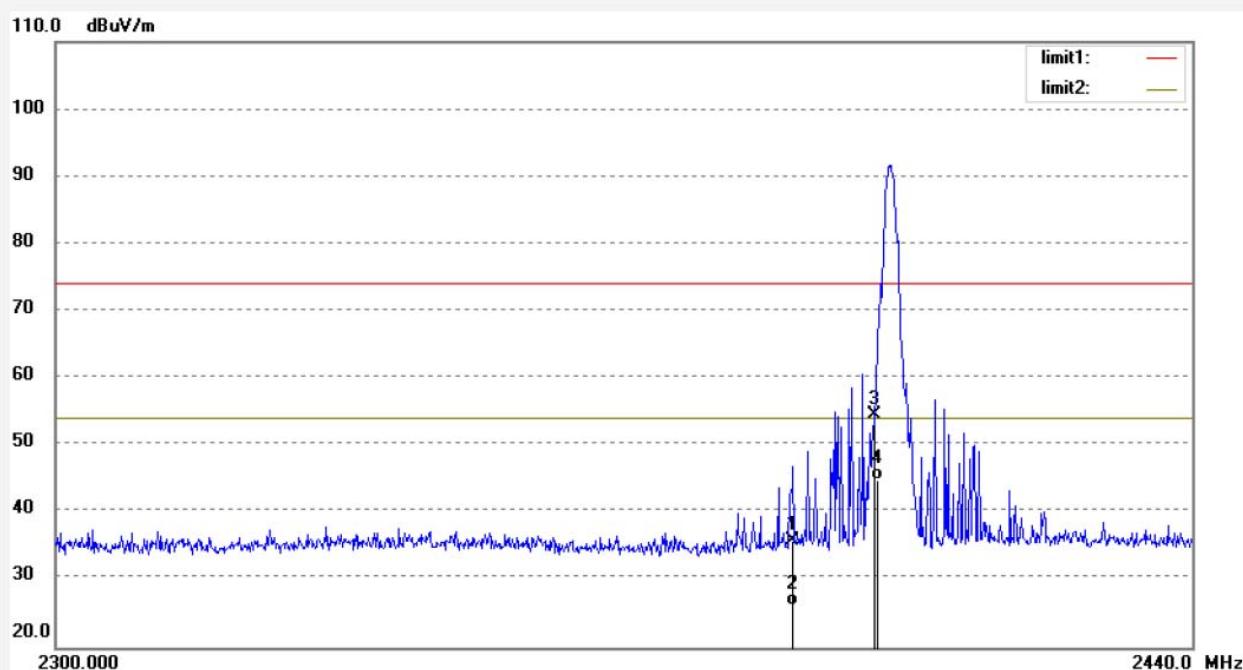
Mode: TX 2402MHz(8DPSK)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552



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	40.29	-4.32	35.97	74.00	-38.03	peak	200	348	
2	2390.000	30.45	-4.32	26.13	54.00	-27.87	AVG	150	158	
3	2400.000	58.77	-4.27	54.50	74.00	-19.50	peak	150	54	
4	2400.000	49.18	-4.27	44.91	54.00	-9.09	AVG	150	312	

Job No.: frank2018 #158 Polarization: Horizontal

Standard: FCC PK Power Source: DC 3.3V

Test item: Radiation Test Date: 18/01/26/

Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/4/22

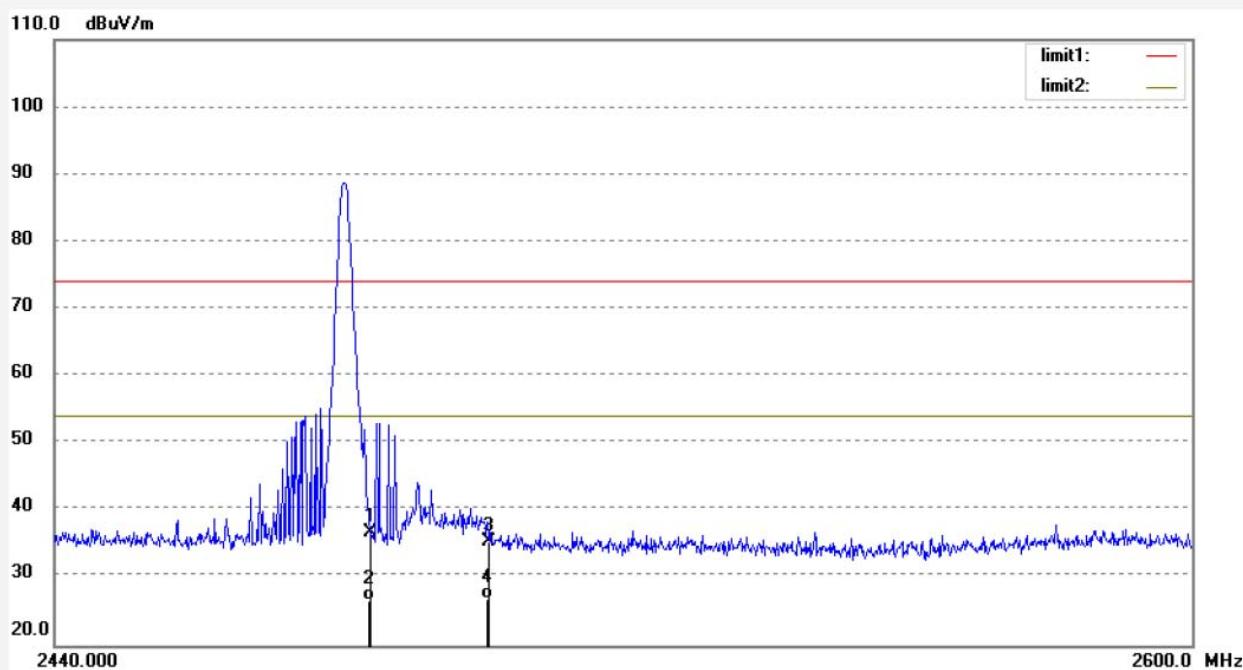
EUT: Wifi module Engineer Signature:

Mode: TX 2480MHz(GFSK) Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552



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	40.71	-3.89	36.82	74.00	-37.18	peak	250	44	
2	2483.500	30.42	-3.89	26.53	54.00	-27.47	AVG	250	123	
3	2500.000	39.24	-3.81	35.43	74.00	-38.57	peak	250	97	
4	2500.000	30.78	-3.81	26.97	54.00	-27.03	AVG	250	158	

Job No.: frank2018 #157

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 18/01/26/

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

Time: 9/44/35

EUT: Wifi module

Engineer Signature:

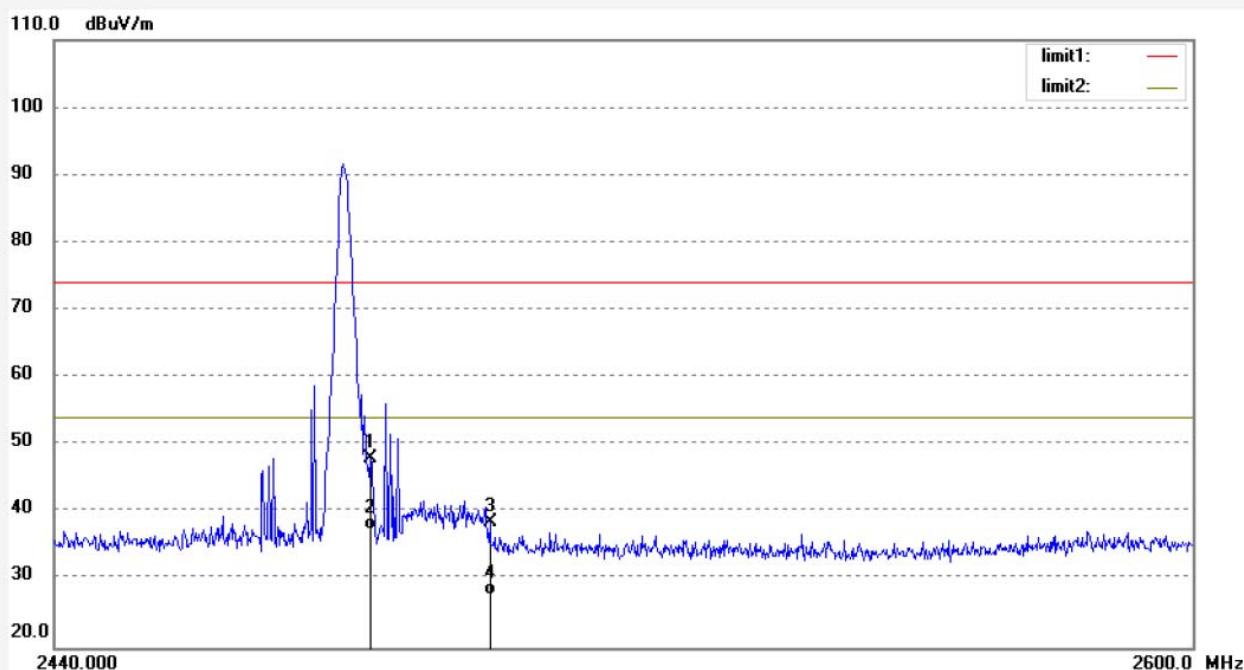
Mode: TX 2480MHz(GFSK)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552



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	51.85	-3.89	47.96	74.00	-26.04	peak	200	182	
2	2483.500	41.35	-3.89	37.46	54.00	-16.54	AVG	150	248	
3	2500.000	42.32	-3.81	38.51	74.00	-35.49	peak	150	137	
4	2500.000	31.58	-3.81	27.77	54.00	-26.23	AVG	200	45	



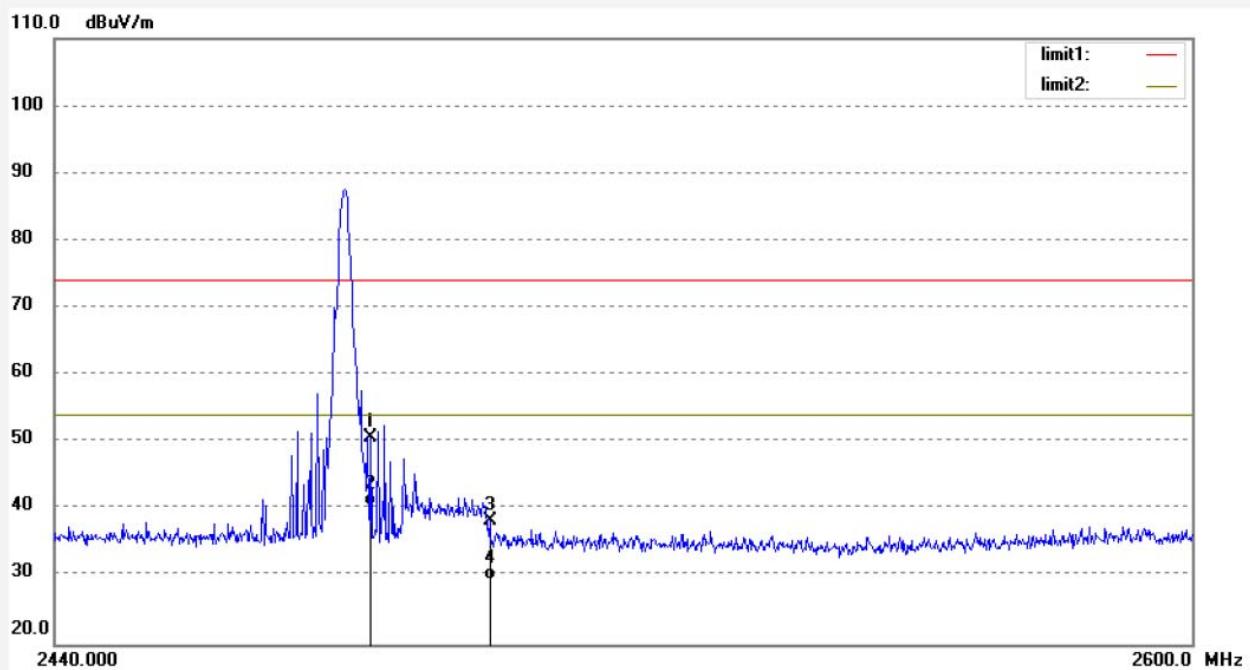
ACCURATE TECHNOLOGY CO., LTD.

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.: frank2018 #155 Polarization: Horizontal
Standard: FCC PK Power Source: DC 3.3V
Test item: Radiation Test Date: 18/01/26/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/42/38
EUT: Wifi module Engineer Signature:
Mode: TX 2480MHz(1/4 DQPSK) Distance: 3m
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552

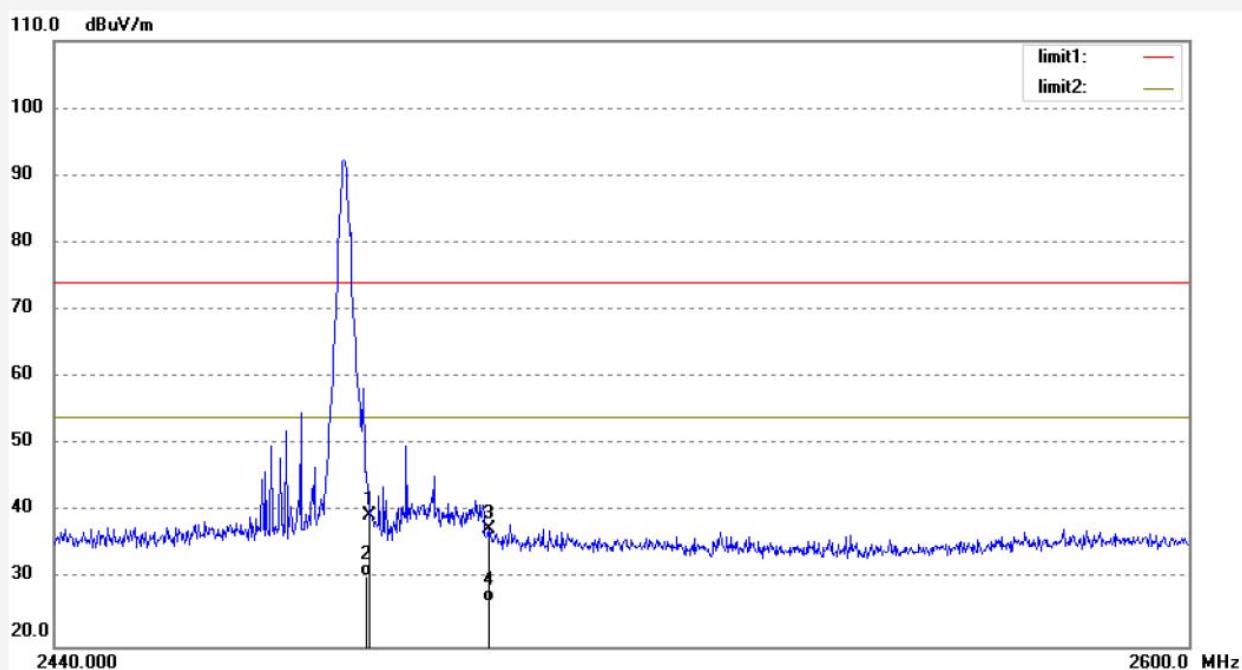


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	54.68	-3.89	50.79	74.00	-23.21	peak	200	159	
2	2483.500	44.48	-3.89	40.59	54.00	-13.41	AVG	250	87	
3	2500.000	42.16	-3.81	38.35	74.00	-35.65	peak	200	347	
4	2500.000	33.46	-3.81	29.65	54.00	-24.35	AVG	250	99	

Job No.: frank2018 #156
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: TX 2480MHz(Π/4 DQPSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9:43:38
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172552



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	43.33	-3.89	39.44	74.00	-34.56	peak	200	193	
2	2483.500	34.25	-3.89	30.36	54.00	-23.64	AVG	150	54	
3	2500.000	41.17	-3.81	37.36	74.00	-36.64	peak	200	147	
4	2500.000	30.48	-3.81	26.67	54.00	-27.33	AVG	150	47	



ACCURATE TECHNOLOGY CO., LTD.

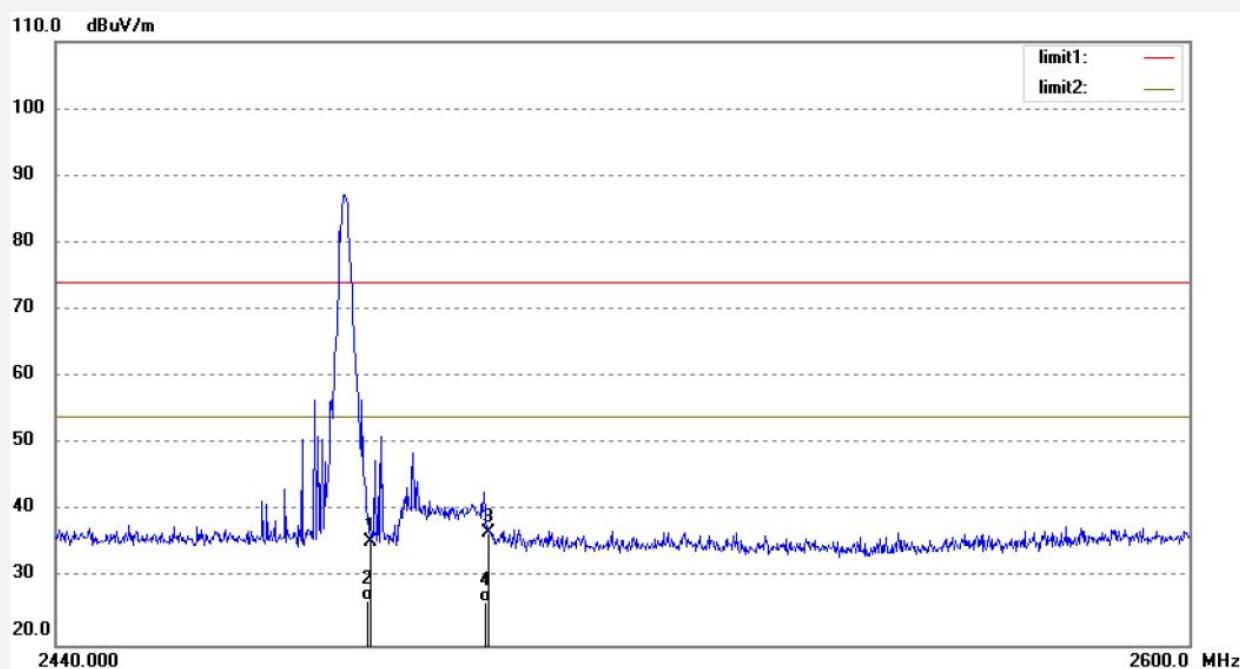
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: frank2018 #154
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Wifi module
Mode: TX 2480MHz(8DPSK)
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
Power Source: DC 3.3V
Date: 18/01/26/
Time: 9/41/30
Engineer Signature:
Distance: 3m

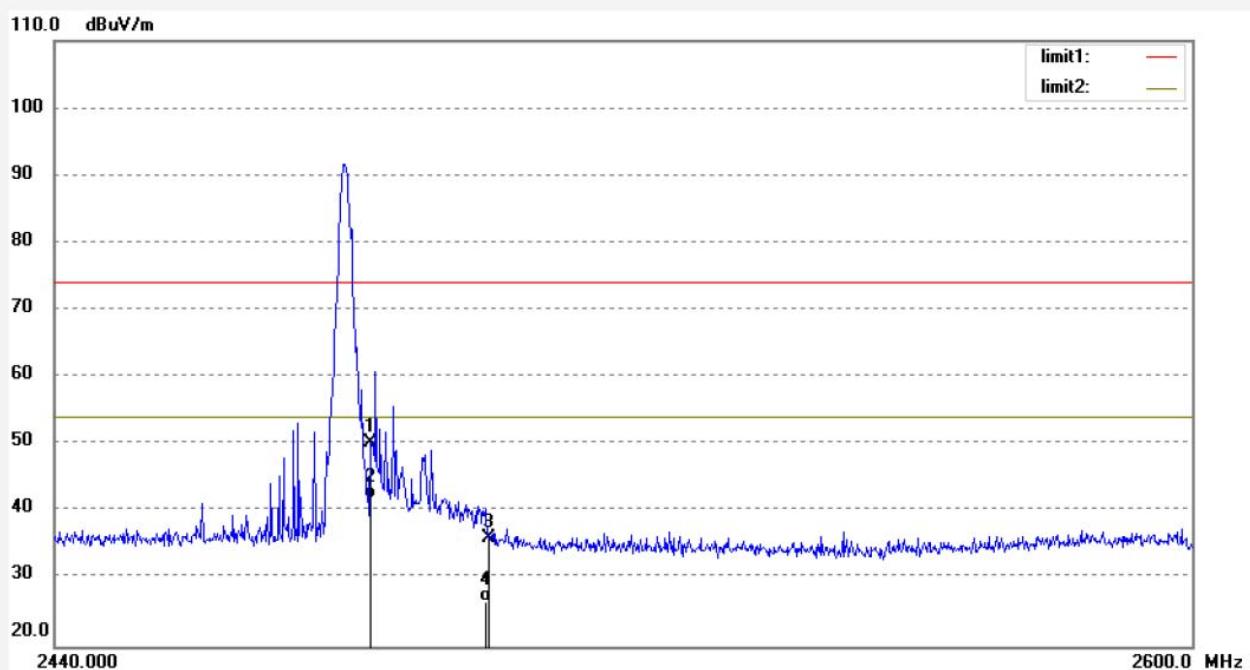
Note: Report NO.:ATE20172552



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	39.31	-3.89	35.42	74.00	-38.58	peak	250	222	
2	2483.500	30.45	-3.89	26.56	54.00	-27.44	AVG	200	90	
3	2500.000	40.66	-3.81	36.85	74.00	-37.15	peak	250	189	
4	2500.000	30.19	-3.81	26.38	54.00	-27.62	AVG	200	127	

Job No.: frank2018 #153 Polarization: Vertical
 Standard: FCC PK Power Source: DC 3.3V
 Test item: Radiation Test Date: 18/01/26/
 Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/40/33
 EUT: Wifi module Engineer Signature:
 Mode: TX 2480MHz(8DPSK) Distance: 3m
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552



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	54.14	-3.89	50.25	74.00	-23.75	peak	200	351	
2	2483.500	45.87	-3.89	41.98	54.00	-12.02	AVG	150	158	
3	2500.000	39.91	-3.81	36.10	74.00	-37.90	peak	250	345	
4	2500.000	30.47	-3.81	26.66	54.00	-27.34	AVG	200	240	



Hopping mode

ACCURATE TECHNOLOGY CO., LTD.

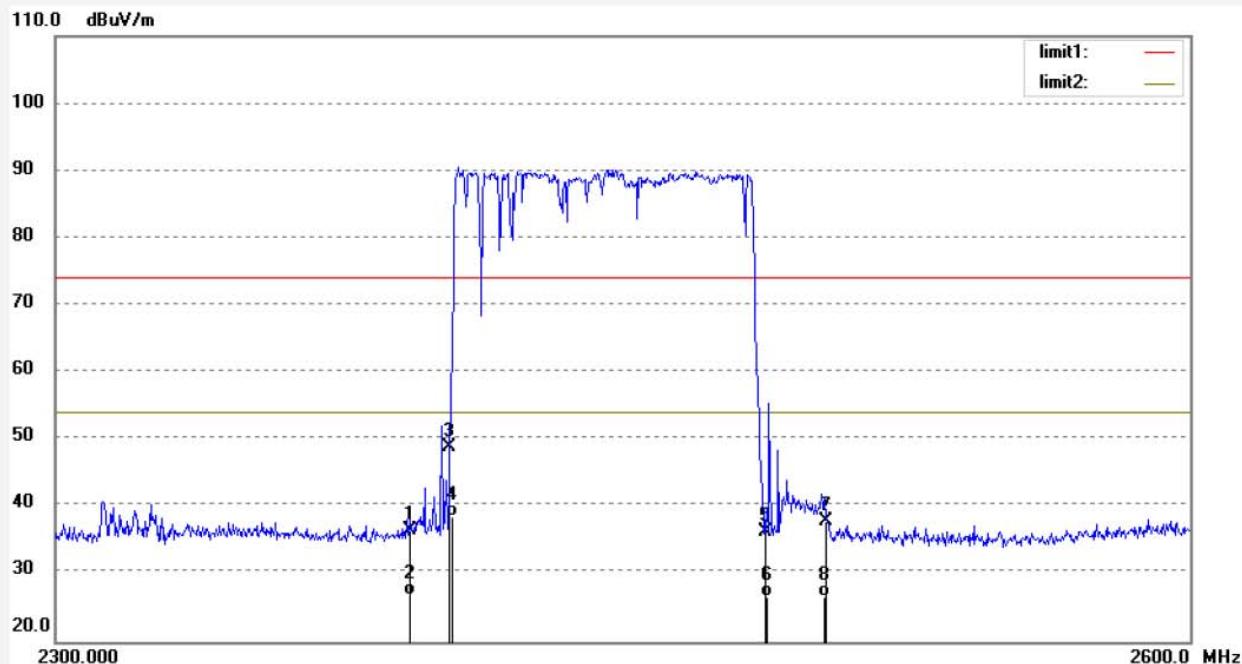
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: frank2018 #159
Standard: FCC PK
Test item: Radiation Test
Temp. (C)/Hum.(%) 25 C / 55 %
EUT: Wifi module
Mode: Hopping(GFSK)
Model: M632USA1
Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
Power Source: DC 3.3V
Date: 18/01/26/
Time: 9/47/59
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20172552

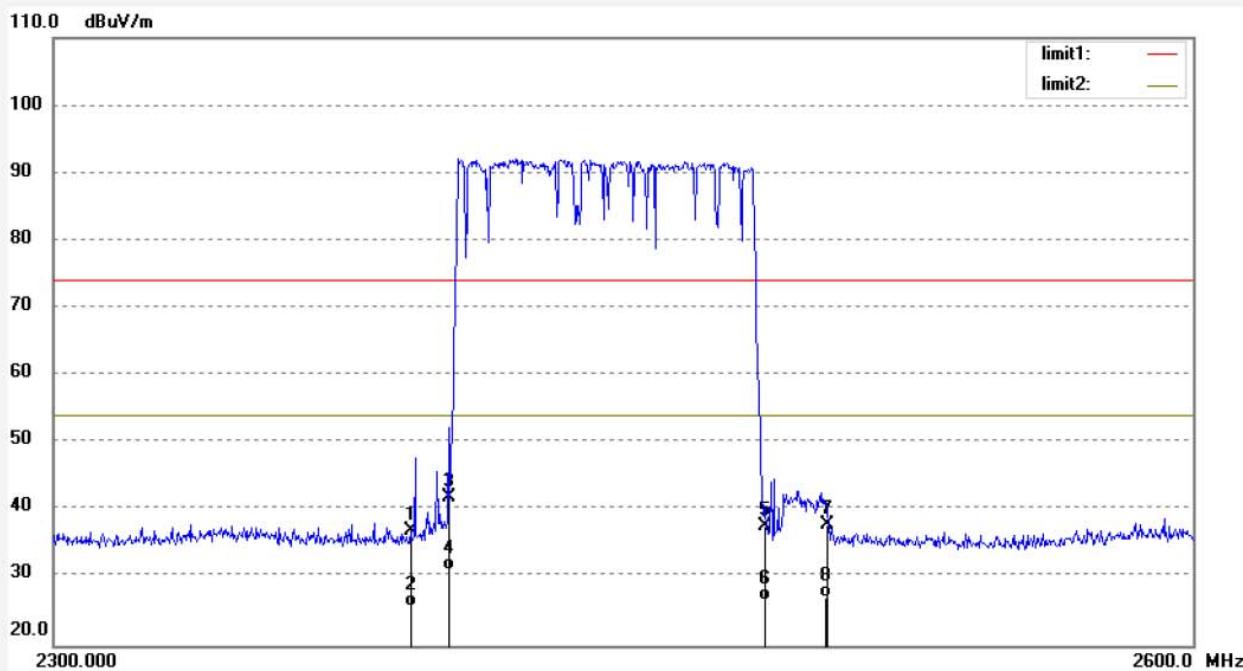


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	40.87	-4.32	36.55	74.00	-37.45	peak	250	123	
2	2390.000	31.25	-4.32	26.93	54.00	-27.07	AVG	250	254	
3	2400.000	53.24	-4.27	48.97	74.00	-25.03	peak	250	198	
4	2400.000	42.88	-4.27	38.61	54.00	-15.39	AVG	250	258	
5	2483.500	40.18	-3.89	36.29	74.00	-37.71	peak	250	94	
6	2483.500	30.48	-3.89	26.59	54.00	-27.41	AVG	200	168	
7	2500.000	41.66	-3.81	37.85	74.00	-36.15	peak	200	101	
8	2500.000	30.48	-3.81	26.67	54.00	-27.33	AVG	200	130	

Job No.: frank2018 #160
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: Hopping(GFSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9/49/56
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172552



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	41.28	-4.32	36.96	74.00	-37.04	peak	250	120	
2	2390.000	30.15	-4.32	25.83	54.00	-28.17	AVG	200	139	
3	2400.000	46.19	-4.27	41.92	74.00	-32.08	peak	250	49	
4	2400.000	35.45	-4.27	31.18	54.00	-22.82	AVG	200	65	
5	2483.500	41.63	-3.89	37.74	74.00	-36.26	peak	150	154	
6	2483.500	30.50	-3.89	26.61	54.00	-27.39	AVG	150	197	
7	2500.000	41.64	-3.81	37.83	74.00	-36.17	peak	200	25	
8	2500.000	30.98	-3.81	27.17	54.00	-26.83	AVG	200	167	

Job No.: frank2018 #162
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: Hopping(1/4 DQPSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Horizontal
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9:53:31
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172552

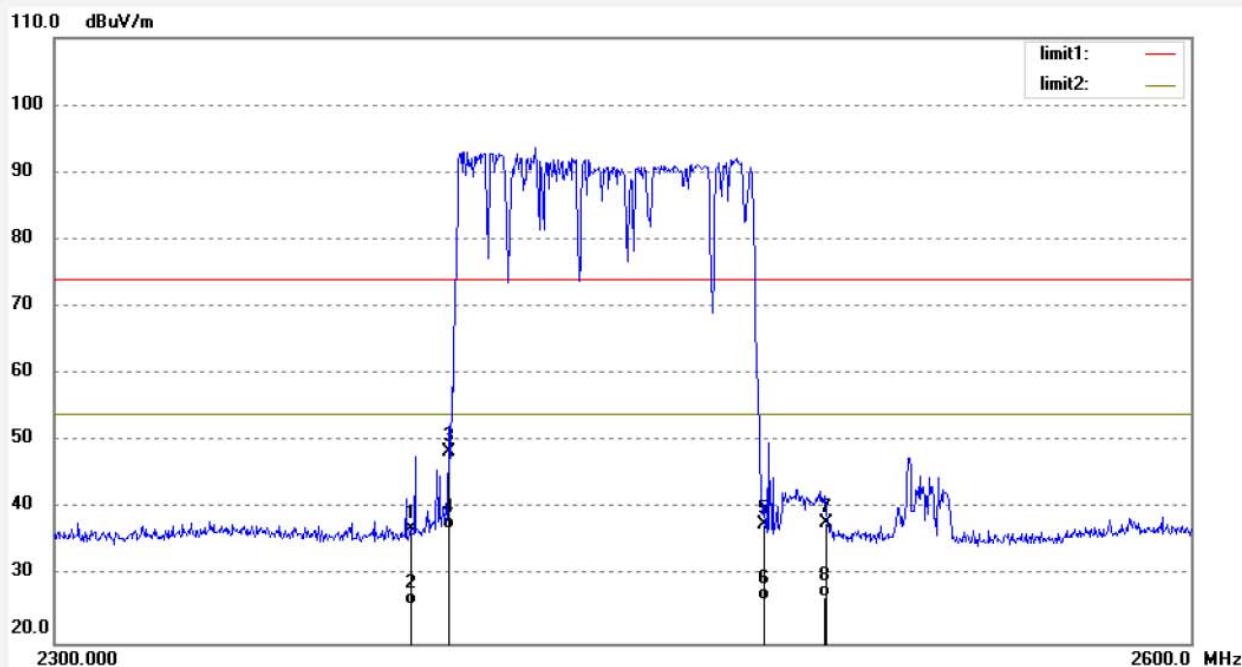


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.52	-4.32	37.20	74.00	-36.80	peak	250	120	
2	2390.000	30.65	-4.32	26.33	54.00	-27.67	AVG	300	103	
3	2400.000	54.10	-4.27	49.83	74.00	-24.17	peak	250	92	
4	2400.000	44.55	-4.27	40.28	54.00	-13.72	AVG	250	154	
5	2483.500	40.55	-3.89	36.66	74.00	-37.34	peak	250	193	
6	2483.500	30.64	-3.89	26.75	54.00	-27.25	AVG	250	24	
7	2500.000	40.41	-3.81	36.60	74.00	-37.40	peak	250	164	
8	2500.000	30.84	-3.81	27.03	54.00	-26.97	AVG	200	358	

Job No.: frank2018 #161
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: Hopping(Π/4 DQPSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9:51:46
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172552



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	41.28	-4.32	36.96	74.00	-37.04	peak	200	132	
2	2390.000	30.15	-4.32	25.83	54.00	-28.17	AVG	200	100	
3	2400.000	52.66	-4.27	48.39	74.00	-25.61	peak	250	97	
4	2400.000	41.35	-4.27	37.08	54.00	-16.92	AVG	250	187	
5	2483.500	41.63	-3.89	37.74	74.00	-36.26	peak	250	154	
6	2483.500	30.41	-3.89	26.52	54.00	-27.48	AVG	200	264	
7	2500.000	41.64	-3.81	37.83	74.00	-36.17	peak	250	350	
8	2500.000	30.57	-3.81	26.76	54.00	-27.24	AVG	150	330	

Job No.: frank2018 #163

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.3V

Test item: Radiation Test

Date: 18/01/26/

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

Time: 9/55/36

EUT: Wifi module

Engineer Signature:

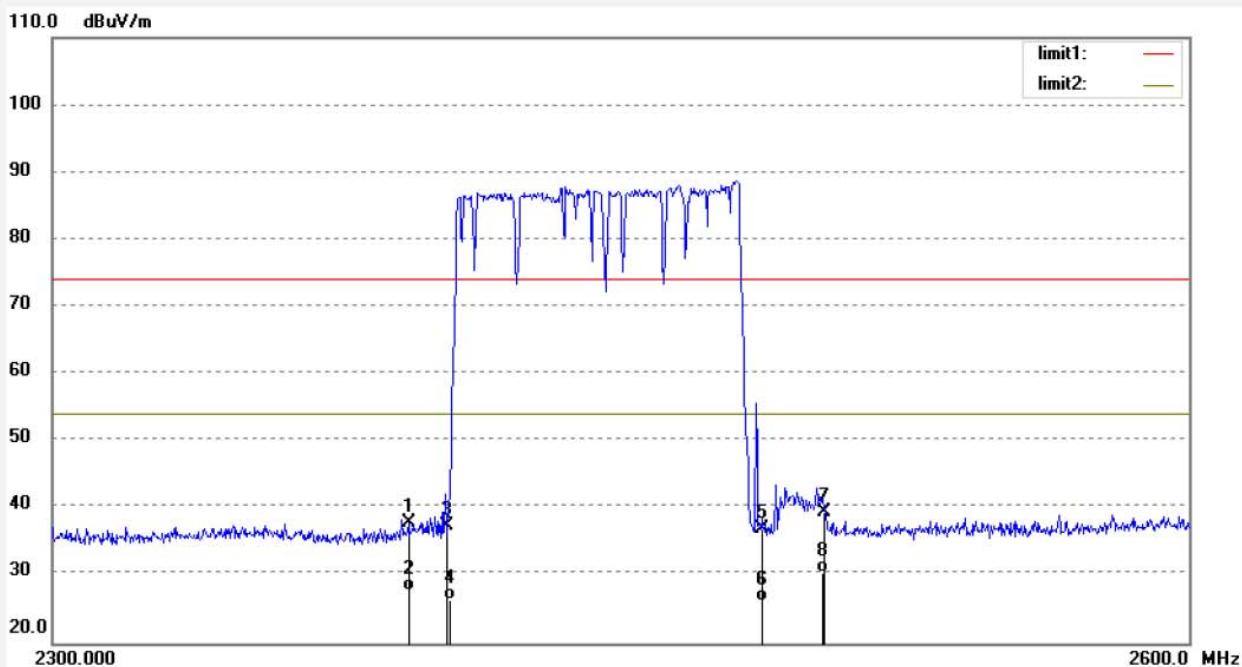
Mode: Hopping(8DPSK)

Distance: 3m

Model: M632USA1

Manufacturer: Xiamen Prima Technology Inc.

Note: Report NO.:ATE20172552

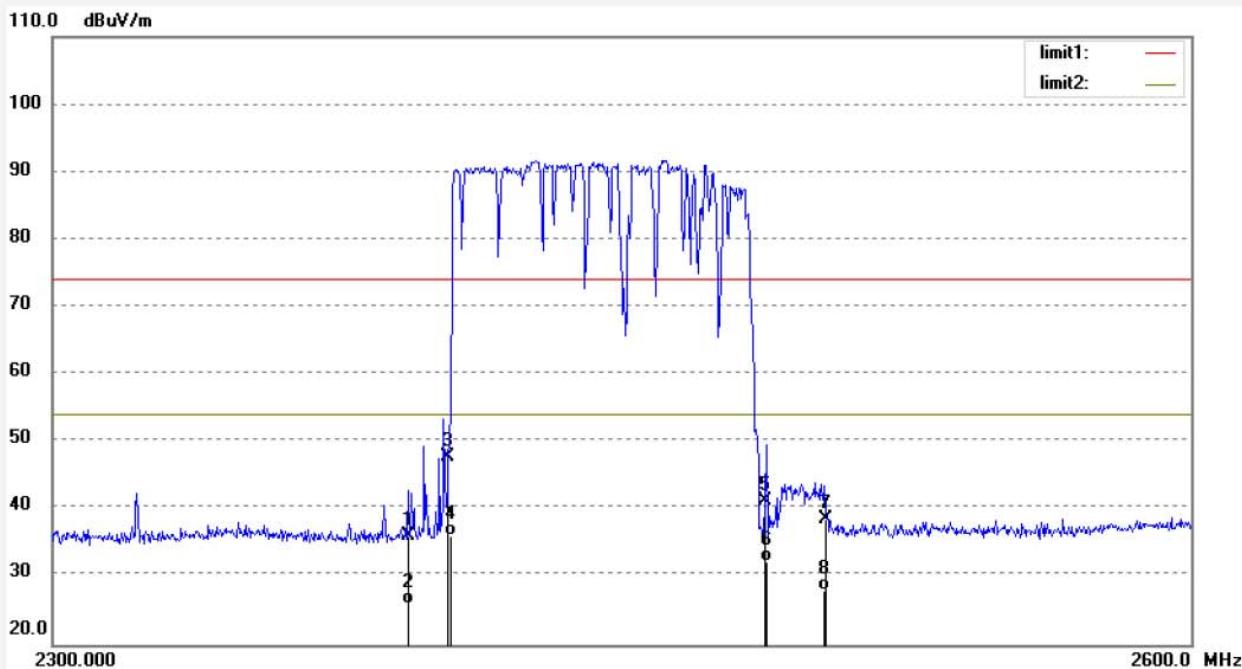


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	42.27	-4.32	37.95	74.00	-36.05	peak	250	150	
2	2390.000	31.98	-4.32	27.66	54.00	-26.34	AVG	250	123	
3	2400.000	41.74	-4.27	37.47	74.00	-36.53	peak	250	48	
4	2400.000	30.69	-4.27	26.42	54.00	-27.58	AVG	250	91	
5	2483.500	40.92	-3.89	37.03	74.00	-36.97	peak	250	189	
6	2483.500	29.98	-3.89	26.09	54.00	-27.91	AVG	250	213	
7	2500.000	43.36	-3.81	39.55	74.00	-34.45	peak	250	221	
8	2500.000	34.19	-3.81	30.38	54.00	-23.62	AVG	200	90	

Job No.: frank2018 #164
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Wifi module
 Mode: Hopping(8DPSK)
 Model: M632USA1
 Manufacturer: Xiamen Prima Technology Inc.

Polarization: Vertical
 Power Source: DC 3.3V
 Date: 18/01/26/
 Time: 9/58/26
 Engineer Signature:
 Distance: 3m

Note: Report NO.:ATE20172552



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	40.48	-4.32	36.16	74.00	-37.84	peak	200	193	
2	2390.000	30.19	-4.32	25.87	54.00	-28.13	AVG	250	246	
3	2400.000	51.99	-4.27	47.72	74.00	-26.28	peak	250	184	
4	2400.000	40.34	-4.27	36.07	54.00	-17.93	AVG	200	255	
5	2483.500	45.24	-3.89	41.35	74.00	-32.65	peak	200	145	
6	2483.500	36.18	-3.89	32.29	54.00	-21.71	AVG	250	92	
7	2500.000	42.28	-3.81	38.47	74.00	-35.53	peak	200	310	
8	2500.000	31.90	-3.81	28.09	54.00	-25.91	AVG	250	215	

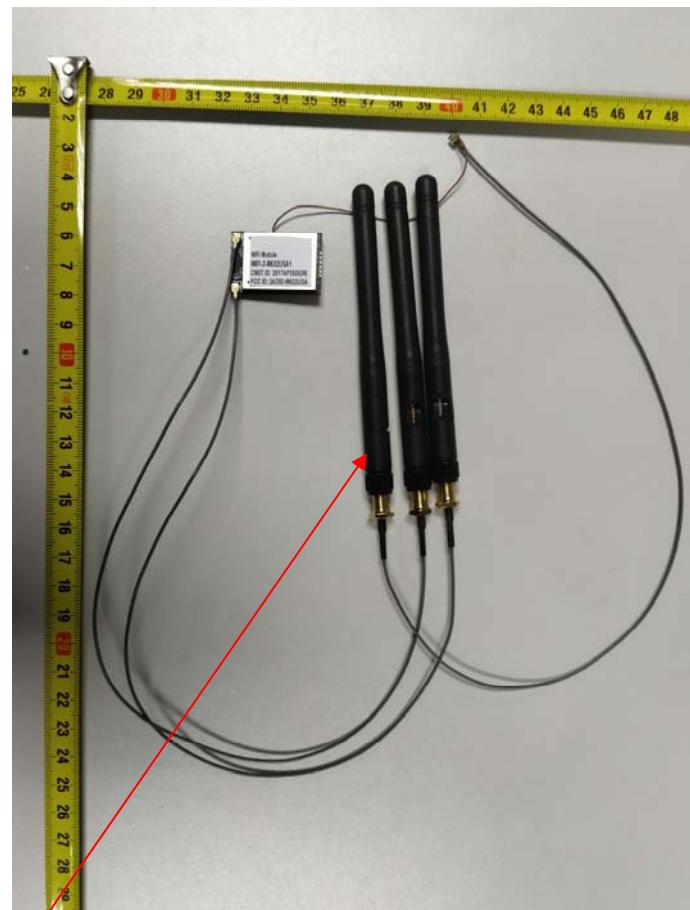
12. ANTENNA REQUIREMENT

12.1. 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.

12.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna