

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Qingping Technology(Beijing) Co., Ltd.

Qingping Temp & RH Monitor Lite

Model No.: CGDK2

FCC ID: 2AQ3F-CGDK2

Prepared for : Qingping Technology(Beijing) Co., Ltd.
Address : Room 401, Block B, Fangheng Times Square, No. 10 Wangjing
Street, Chaoyang District, Beijing, China

Prepared by : Shenzhen Accurate Technology Co., Ltd.
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Report No. : ATE20200335
Date of Test : April 13, 2020--April 22, 2020
Date of Report : April 23, 2020

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Test Report Certification

Applicant : Qingping Technology(Beijing) Co., Ltd.
 Address : Room 401, Block B, Fangheng Times Square, No. 10 Wangjing Street, Chaoyang District, Beijing, China
 Manufacturer : Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.
 Address : Floor 1&3&4, Building D1, The 3rd Industrial Zone, Banxianshan, Hengli Town, Dongguan, Guangdong, P.R. China
 Product : Qingping Temp & RH Monitor Lite
 Model No. : CGDK2
 Trade name : qingping

Measurement Procedure Used:


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 April 02, 2019 KDB558074 D01 DTS Meas Guidance v0502 for compliance to FCC 47CFR 15.247 requirements.

The device described above is tested by SHENZHEN 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 SHENZHEN 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 SHENZHEN ACCURATE TECHNOLOGY CO., LTD.

Date of Test : April 13, 2020--April 22, 2020
 Date of Report : April 23, 2020

Prepared by : 
 (Tim Zhang, Engineer)

Approved & Authorized Signer : 
 (Martin Lü, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Qingping Temp & RH Monitor Lite
Model Number	:	CGDK2
Bluetooth version	:	BT V5.0(BLE 1M+2M)
Frequency Range	:	2402MHz-2480MHz
Number of Channels	:	40
Antenna Gain	:	0dBi
Antenna type	:	Integral Antenna
Trade Name	:	Qingping
Hardware version	:	01
Software version	:	1.0.1_0079
Power Supply	:	DC 3V
Modulation mode	:	GFSK
Applicant	:	Qingping Technology(Beijing) Co., Ltd.
Address	:	Room 401, Block B, Fangheng Times Square, No. 10 Wangjing Street, Chaoyang District, Beijing, China
Manufacturer	:	Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.
Address	:	Floor 1&3&4, Building D1, The 3rd Industrial Zone, Banxianshan, Hengli Town, Dongguan, Guangdong, P.R. China
Date of sample received	:	April 13, 2020
Date of Test	:	April 13, 2020--April 22, 2020

1.2.Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (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

1.4.Description of Test Facility

EMC Lab	: Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358
	Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2
	Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193
	Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	: Shenzhen Accurate Technology Co., Ltd.
Site Location	: 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.5.Measurement Uncertainty

Conducted Emission Expanded Uncertainty (Mains ports, 9kHz-30MHz)	= 2.72dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	= 2.66dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	= 4.28dB, k=2
Radiated emission expanded uncertainty (1G-18GHz)	= 4.98dB, k=2
Radiated emission expanded uncertainty (18G-26.5GHz)	= 5.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 04, 2020	1 Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 04, 2020	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV-40	101495	Jan. 04, 2020	1 Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 04, 2020	1 Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 04, 2020	1 Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 04, 2020	1 Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 04, 2020	1 Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 04, 2020	1 Year
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 04, 2020	1 Year
Open Switch and Control Unit	Rohde&Schwarz	OSP120 + OSP-B157	101244 + 100866	Jan. 04, 2020	1 Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 04, 2020	1 Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 04, 2020	1 Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 04, 2020	1 Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 04, 2020	1 Year
RF Coaxial Cable (Conducted Emission)	SUHNER	N-2m	No.2	Jan. 04, 2020	1 Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-5m	NO.3	Jan. 04, 2020	1 Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-5m	NO.4	Jan. 04, 2020	1 Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-1m	NO.5	Jan. 04, 2020	1 Year
RF Coaxial Cable (Radiated Emission)	SUHNER	N-1m	NO.6	Jan. 04, 2020	1 Year
Conducted Emission Measurement Software: ES-K1 V1.71					
Radiated Emission Measurement Software: EZ EMC V1.1.4.2					

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

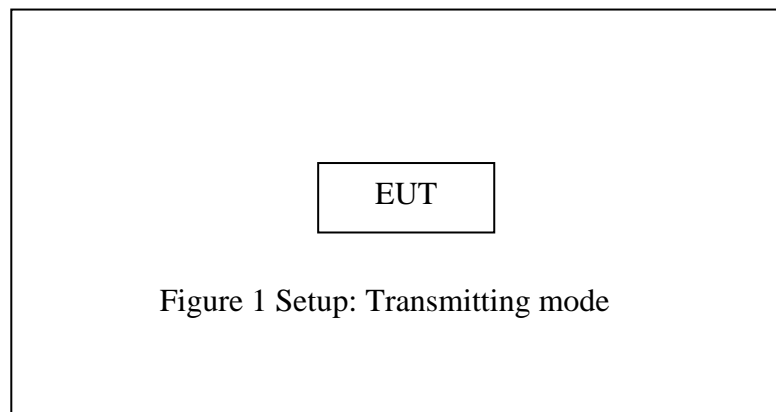
The mode is used: **BLE Transmitting mode**

Low Channel: 2402MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

3.2.Configuration and peripherals



Note: The power was switched from 85% to 115%, and the worse case data was recorded.

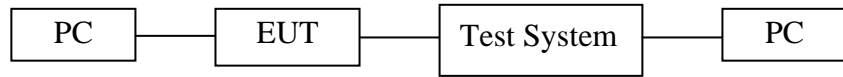
4. TEST PROCEDURES AND RESULTS

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 of the EUT is DC 3V, According to the FCC standard requirements, conducted emission is not applicable .

5. 6DB BANDWIDTH MEASUREMENT

5.1. Block Diagram of Test Setup



(EUT: Qingping Temp & RH Monitor Lite)

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 5.1.

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.

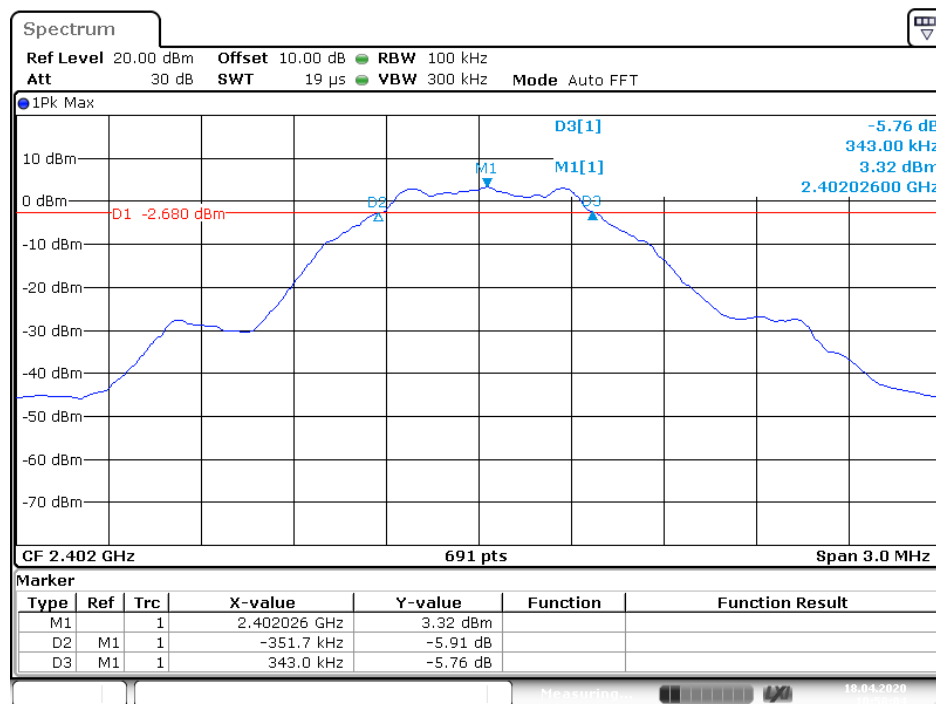
5.6.Test Result

Bluetooth rate: 1MHz

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	0.6947	0.5	PASS
19	2440	0.7033	0.5	PASS
39	2480	0.7120	0.5	PASS

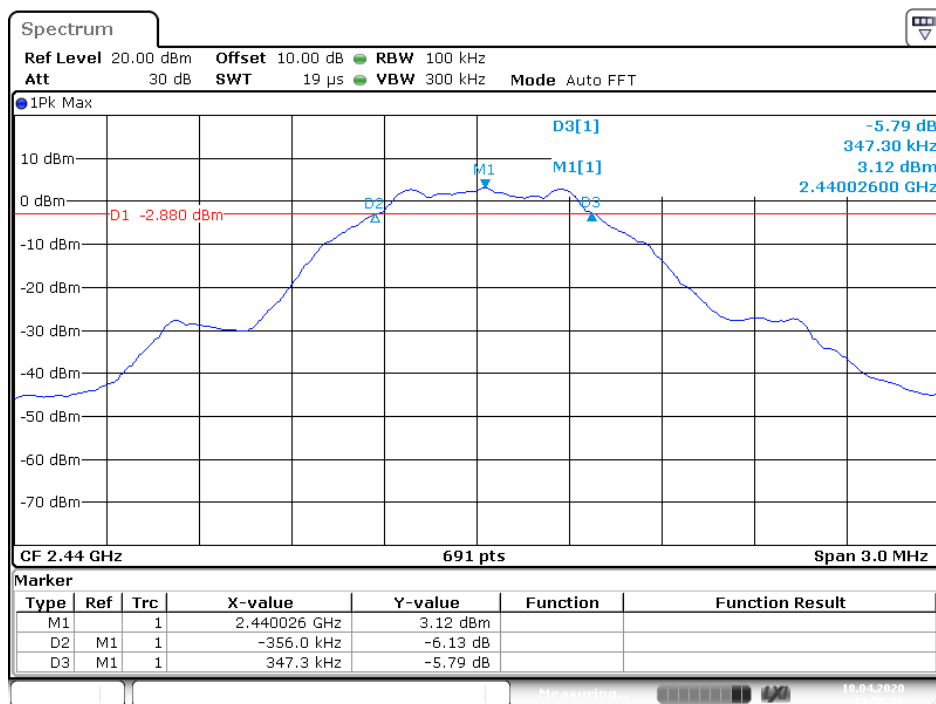
The spectrum analyzer plots are attached as below.

channel 0



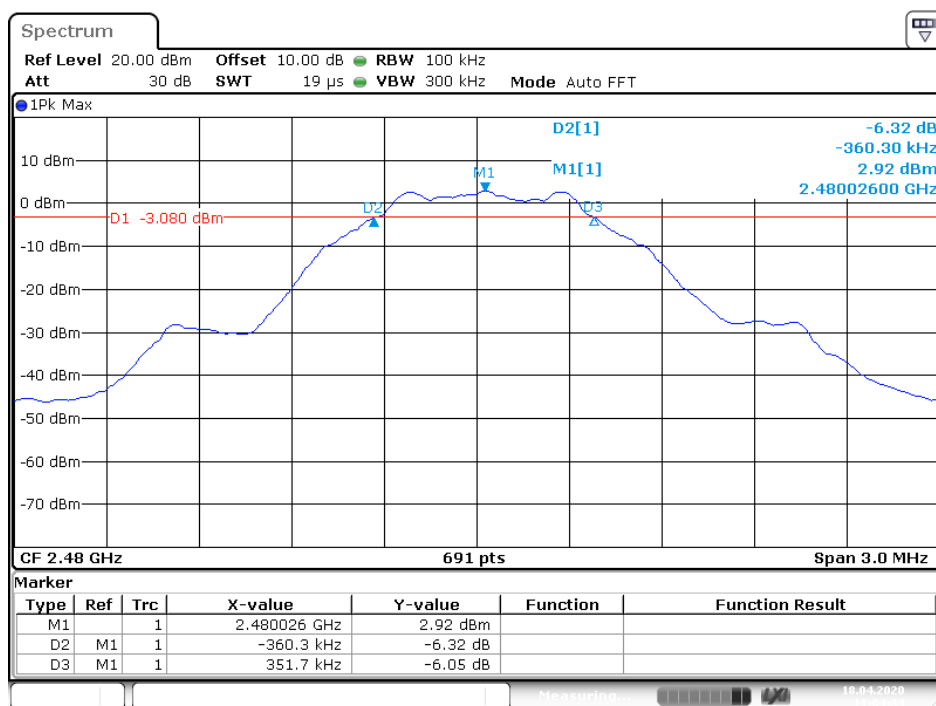
Date: 18.APR.2020 10:58:04

channel 19



Date: 18.APR.2020 10:56:26

channel 39



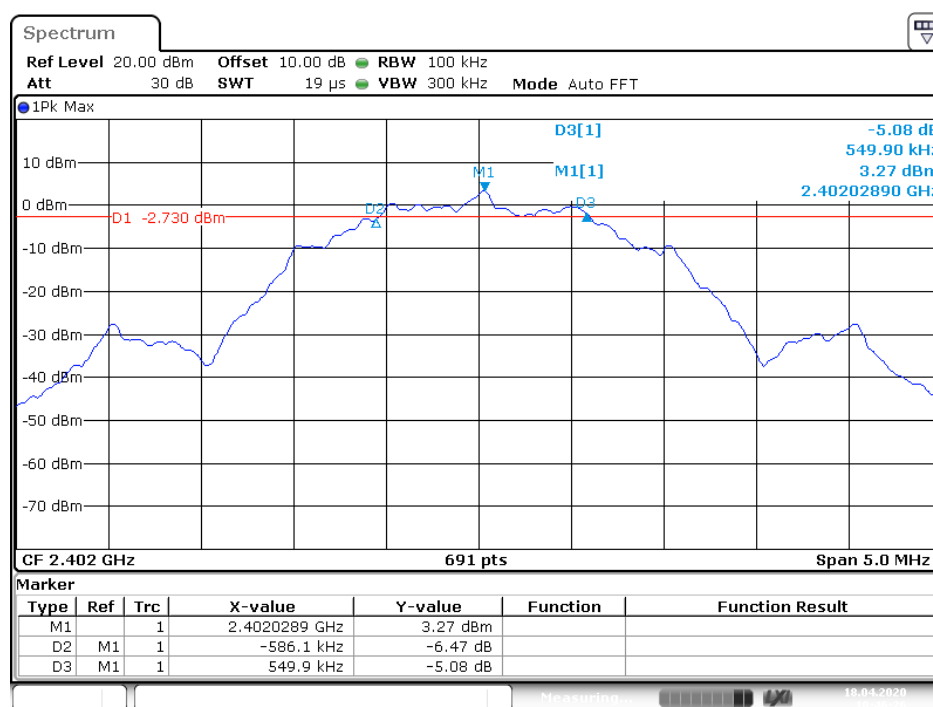
Date: 18.APR.2020 11:04:34

Bluetooth rate: 2MHz

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	1.1360	0.5	PASS
19	2440	1.1288	0.5	PASS
39	2480	1.1288	0.5	PASS

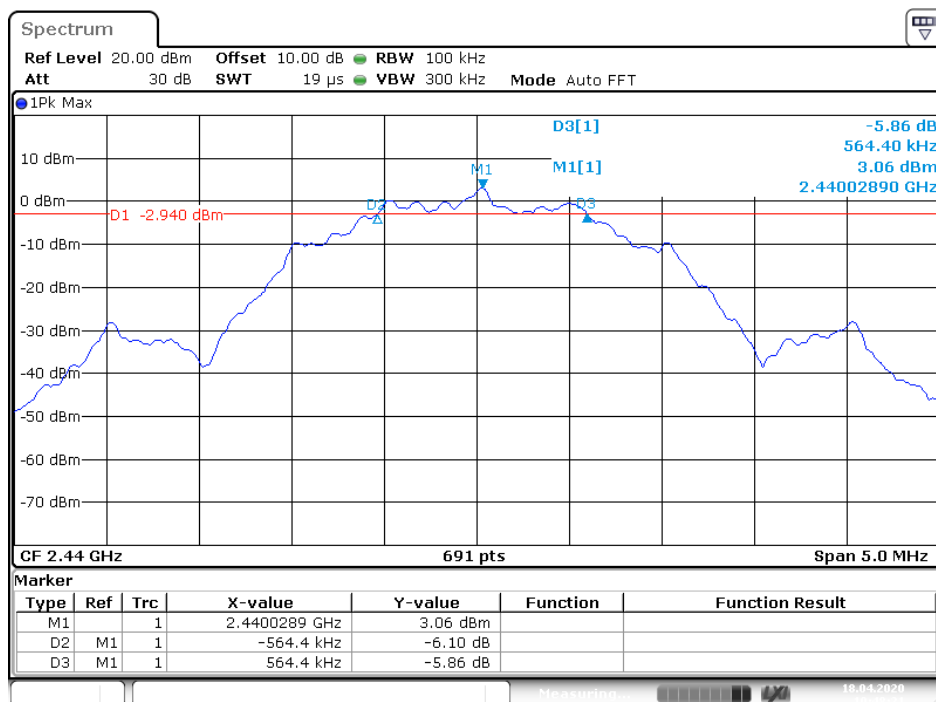
The spectrum analyzer plots are attached as below.

channel 0



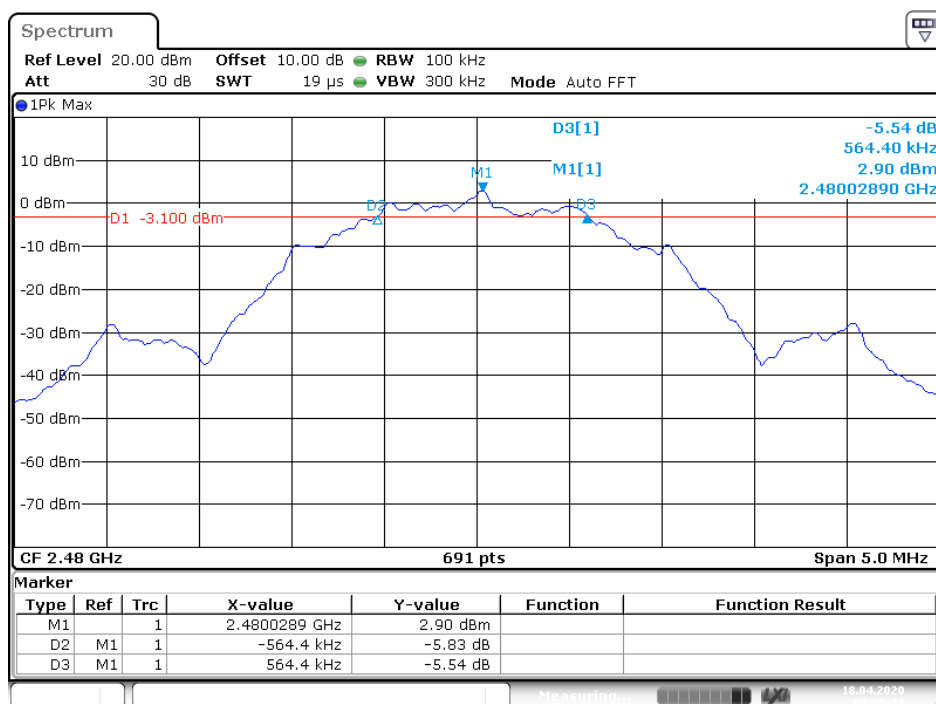
Date: 18.APR.2020 10:46:26

channel 19



Date: 18.APR.2020 10:48:21

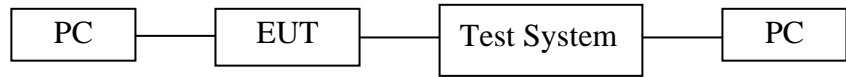
channel 39



Date: 18.APR.2020 09:55:31

6. MAXIMUM PEAK OUTPUT POWER

6.1. Block Diagram of Test Setup



(EUT: Qingping Temp & RH Monitor Lite)

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. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz(Bluetooth rate: 1MHz).

6.5.3. Set RBW of spectrum analyzer to 3 MHz and VBW to 10 MHz(Bluetooth rate: 2MHz).

6.5.4. Measurement the maximum peak output power.

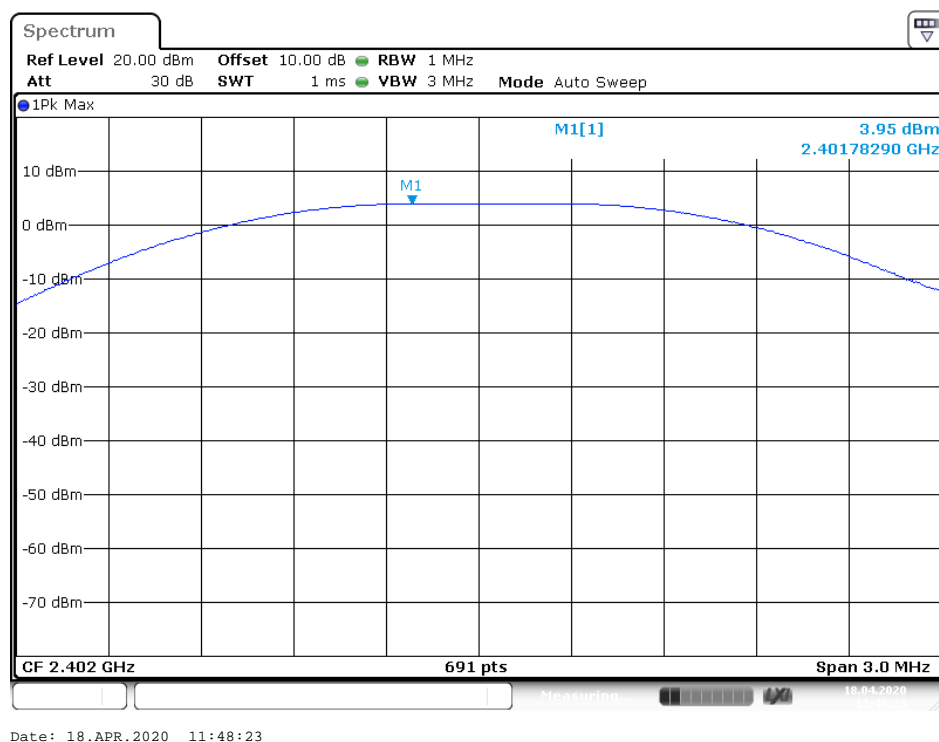
6.6. Test Result

Bluetooth rate: 1MHz

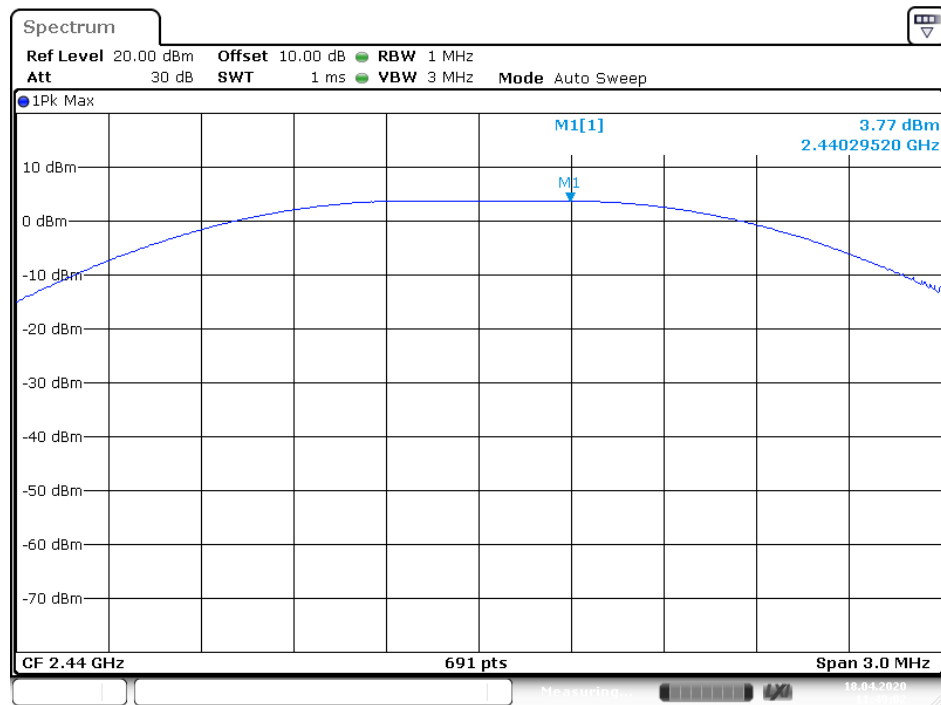
Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
0	2402	3.95	30	PASS
19	2440	3.77	30	PASS
39	2480	3.52	30	PASS

The spectrum analyzer plots are attached as below.

channel 0

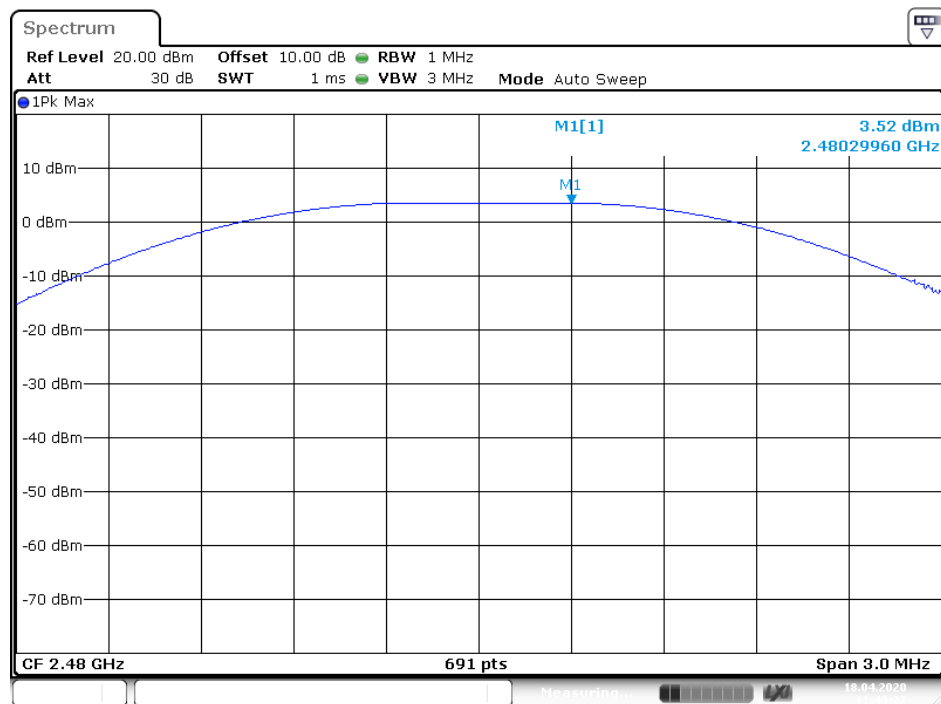


channel 19



Date: 18.APR.2020 11:49:02

channel 39



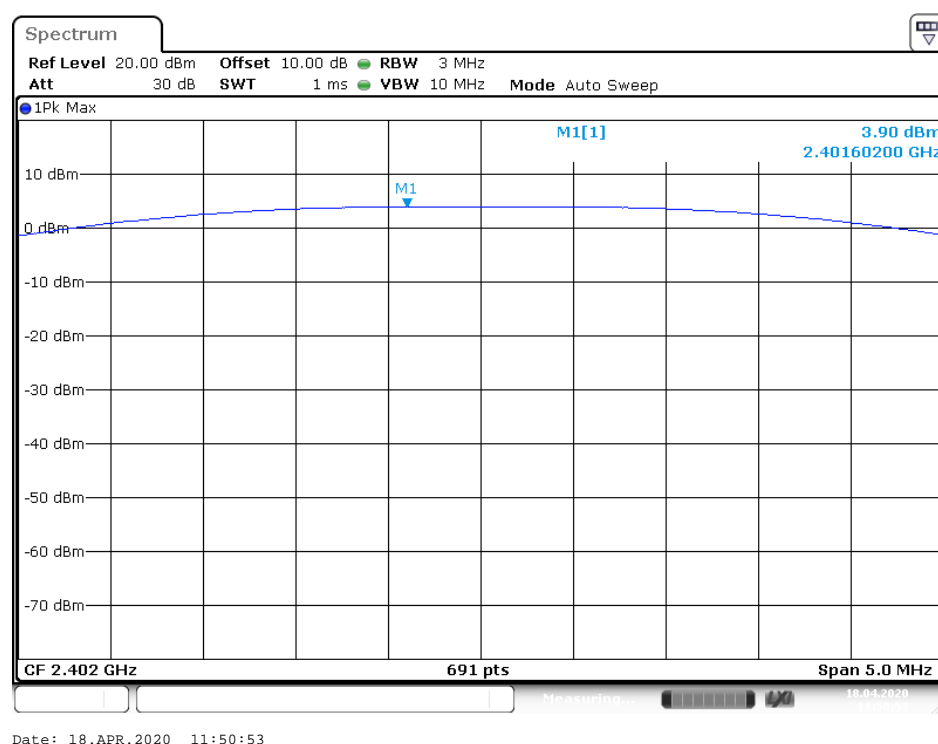
Date: 18.APR.2020 11:49:27

Bluetooth rate: 2MHz

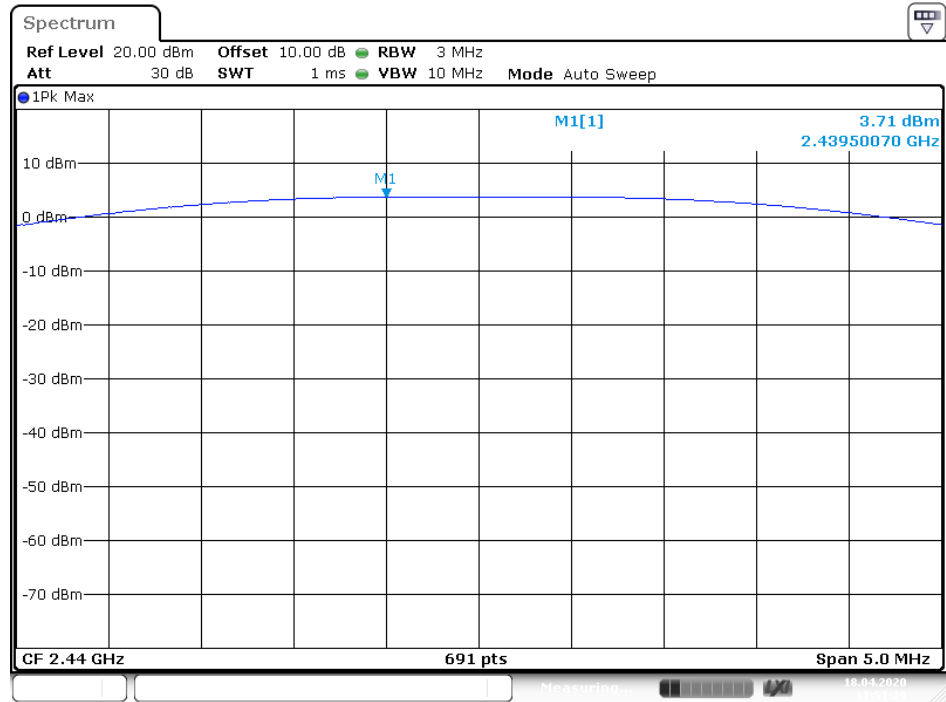
Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail
0	2402	3.90	30	PASS
19	2440	3.71	30	PASS
39	2480	3.49	30	PASS

The spectrum analyzer plots are attached as below.

channel 0

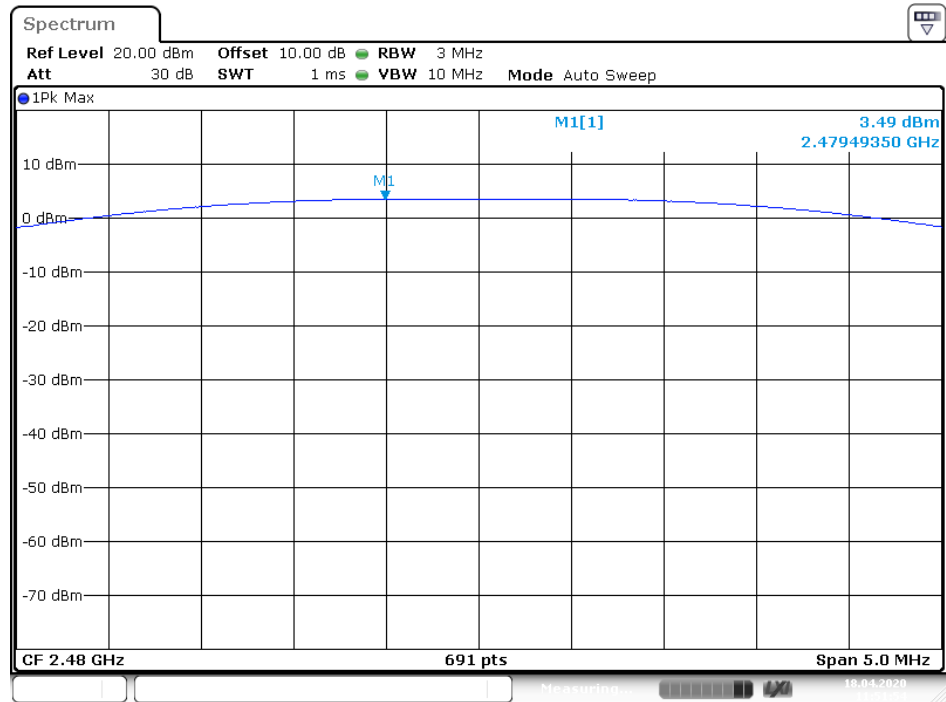


channel 19



Date: 18.APR.2020 11:51:29

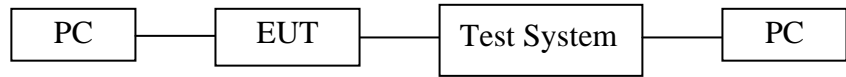
channel 39



Date: 18.APR.2020 11:51:54

7. POWER SPECTRAL DENSITY MEASUREMENT

7.1. Block Diagram of Test Setup



(EUT: Qingping Temp & RH Monitor Lite)

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

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Measurement Procedure PKPSD:

7.5.3. 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 $\geq 3 \times \text{RBW}$.
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 3kHz) and repeat.

7.5.4. Measurement the maximum power spectral density.

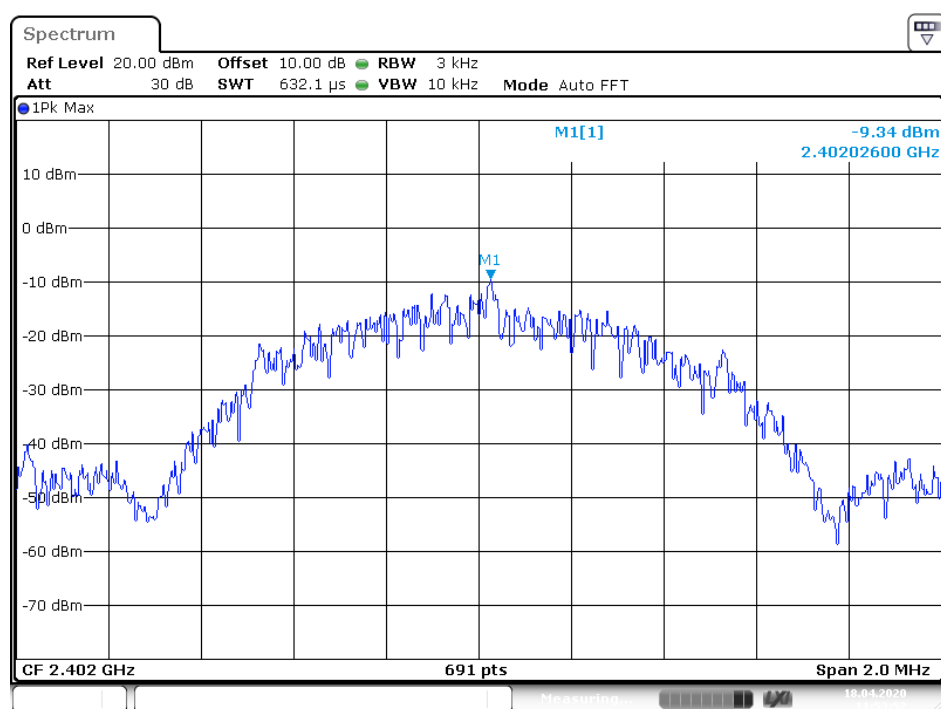
7.6.Test Result

Bluetooth rate: 1MHz

CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-9.34	8	PASS
19	2440	-9.43	8	PASS
39	2480	-9.72	8	PASS

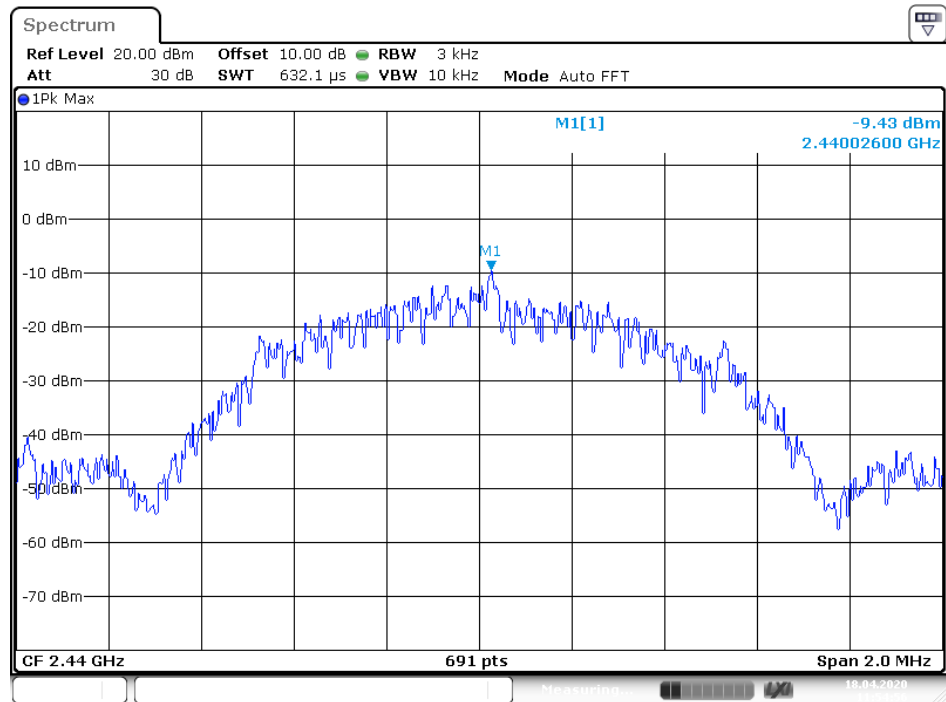
The spectrum analyzer plots are attached as below.

channel 0



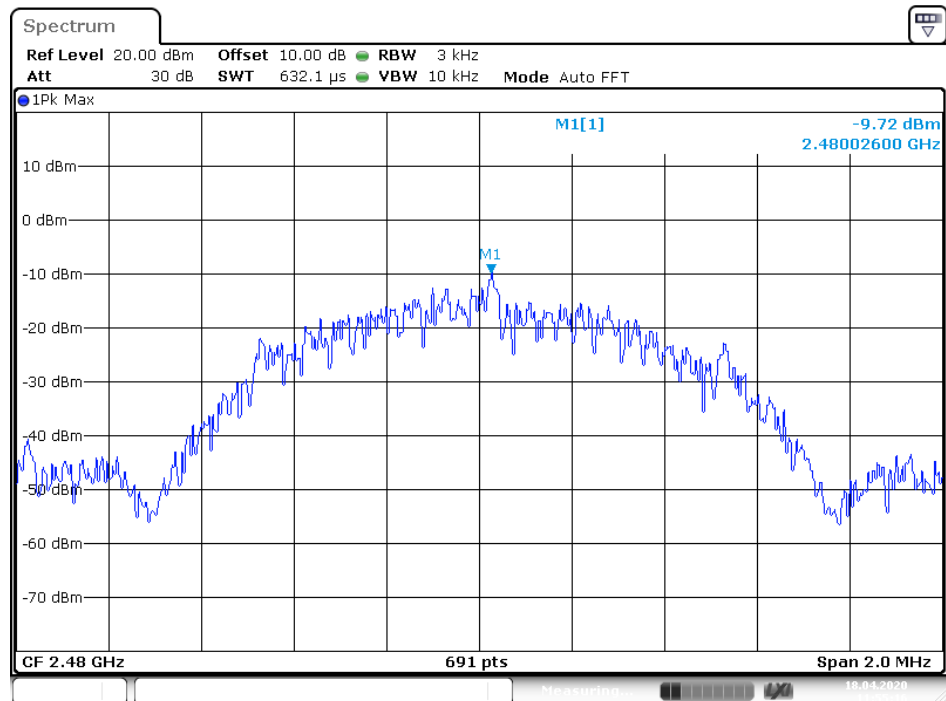
Date: 18.APR.2020 11:53:52

channel 19



Date: 18.APR.2020 11:54:56

channel 39



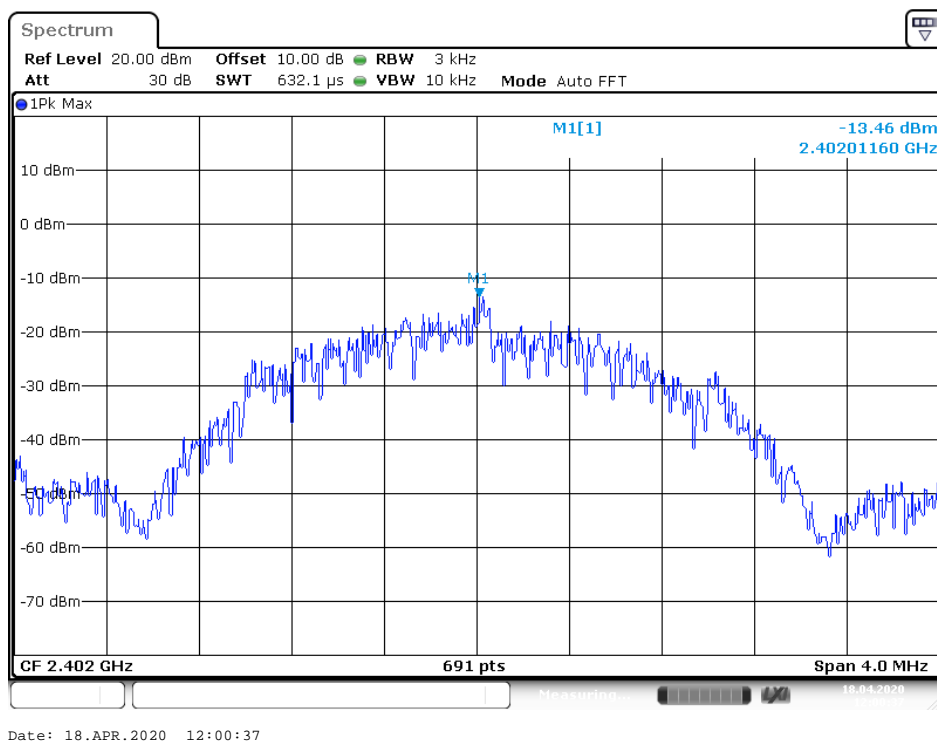
Date: 18.APR.2020 11:55:16

Bluetooth rate: 2MHz

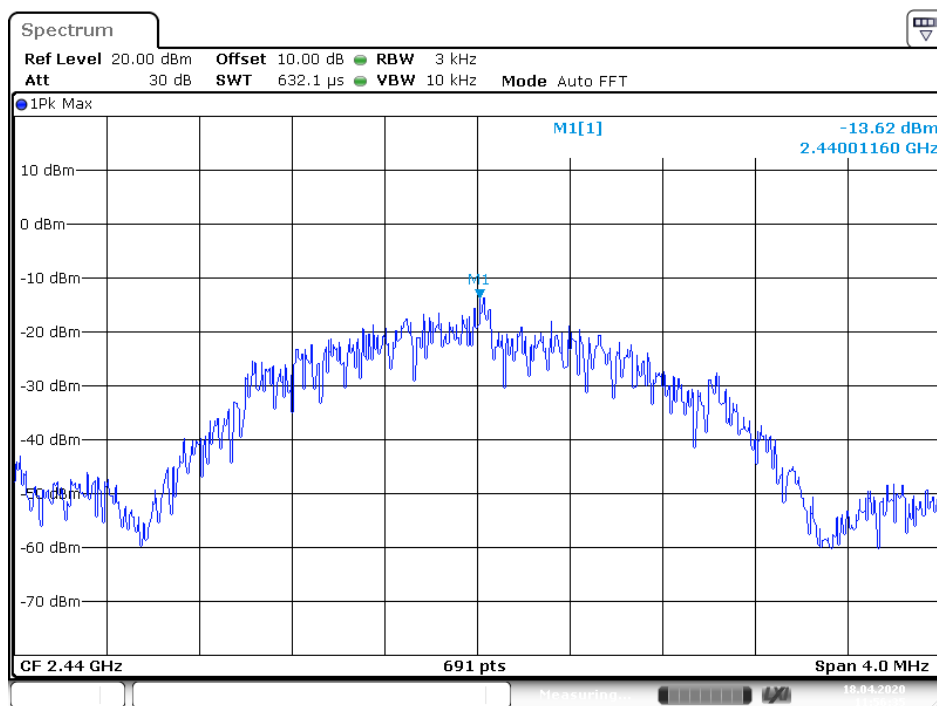
CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-13.46	8	PASS
19	2440	-13.62	8	PASS
39	2480	-13.83	8	PASS

The spectrum analyzer plots are attached as below.

channel 0

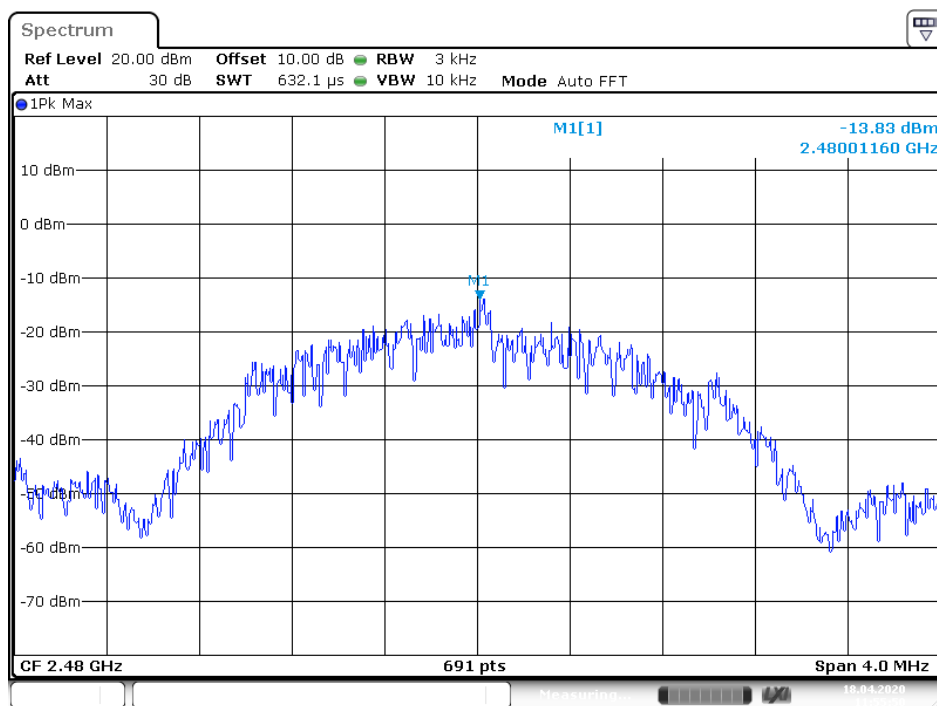


channel 19



Date: 18.APR.2020 11:56:36

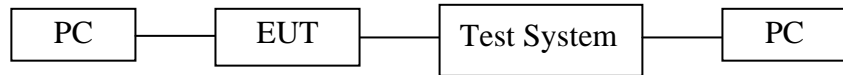
channel 39



Date: 18.APR.2020 11:55:50

8. BAND EDGE COMPLIANCE TEST

8.1. Block Diagram of Test Setup



(EUT: Qingping Temp & RH Monitor Lite)

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 0.1m 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.

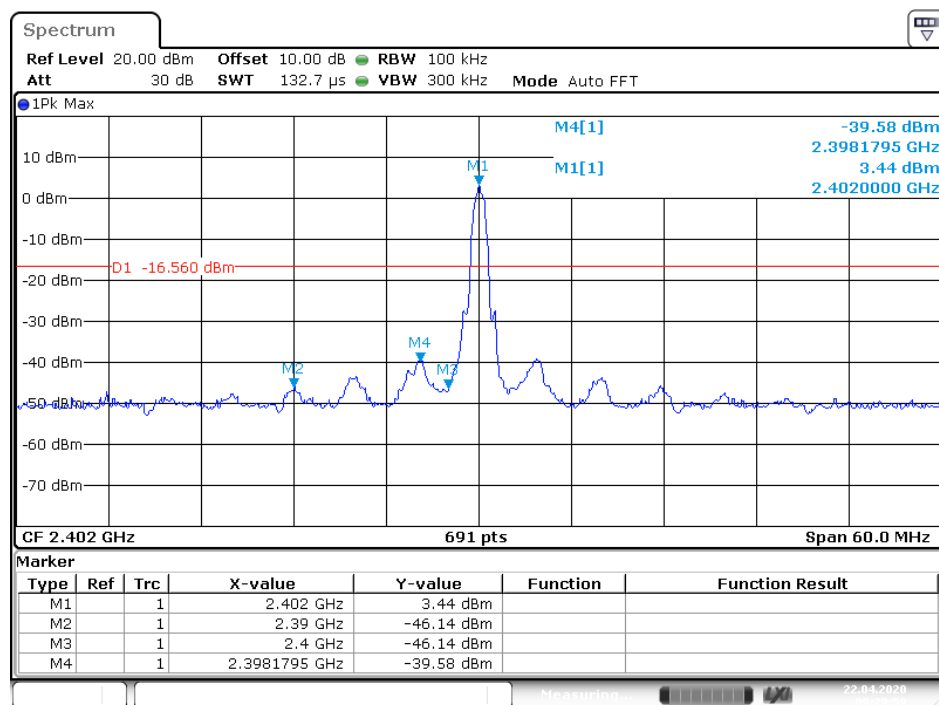
8.6. Test Result

Pass

Bluetooth rate: 1MHz

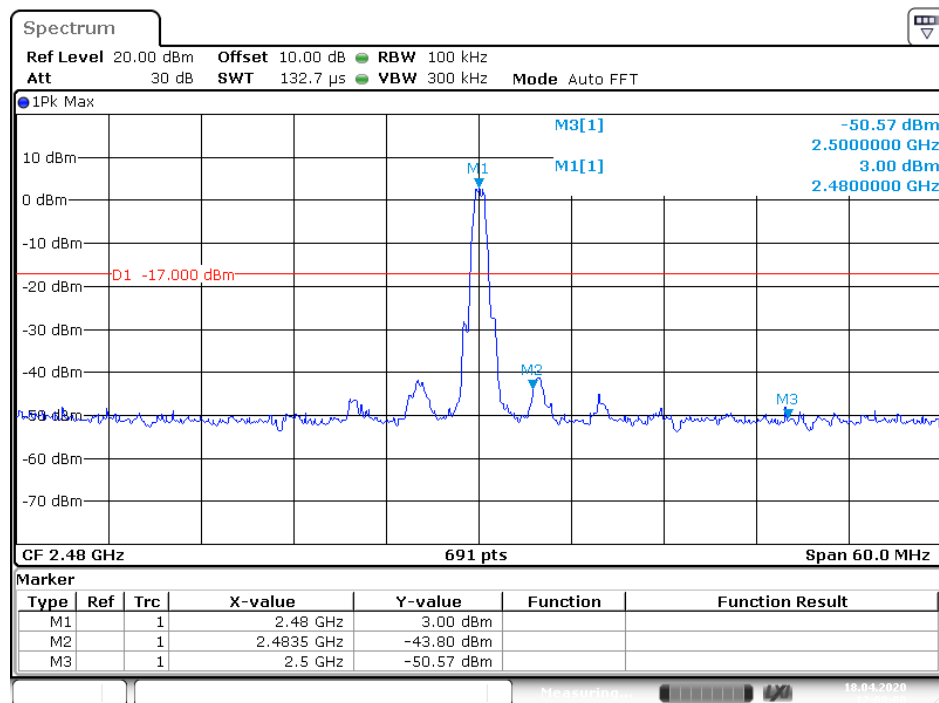
Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.398GHz	43.02	20
39	2.4835GHz	46.80	20

channel 0



Date: 22.APR.2020 09:30:00

channel 39

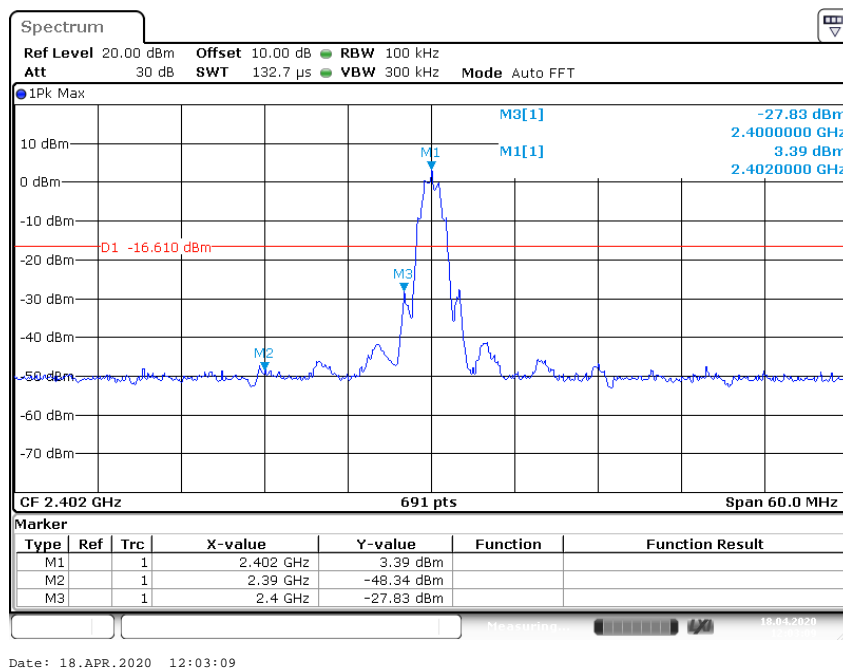


Date: 18.APR.2020 12:08:00

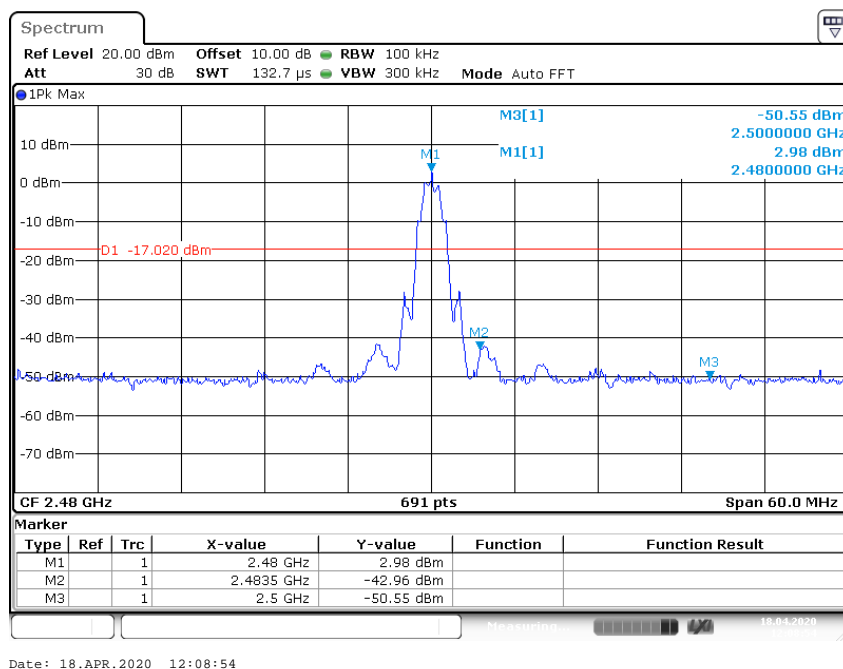
Bluetooth rate: 2MHz

Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.4GHz	31.22	20
39	2.4835GHz	45.94	20

channel 0



channel 39



Radiated Band Edge Result(Bluetooth rate: 1MHz)



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Job No.: JPZRLK #67

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2402MHz

Model: CGDK2

Polarization: Horizontal

Power Source: DC 3V

Date: 2020/04/18

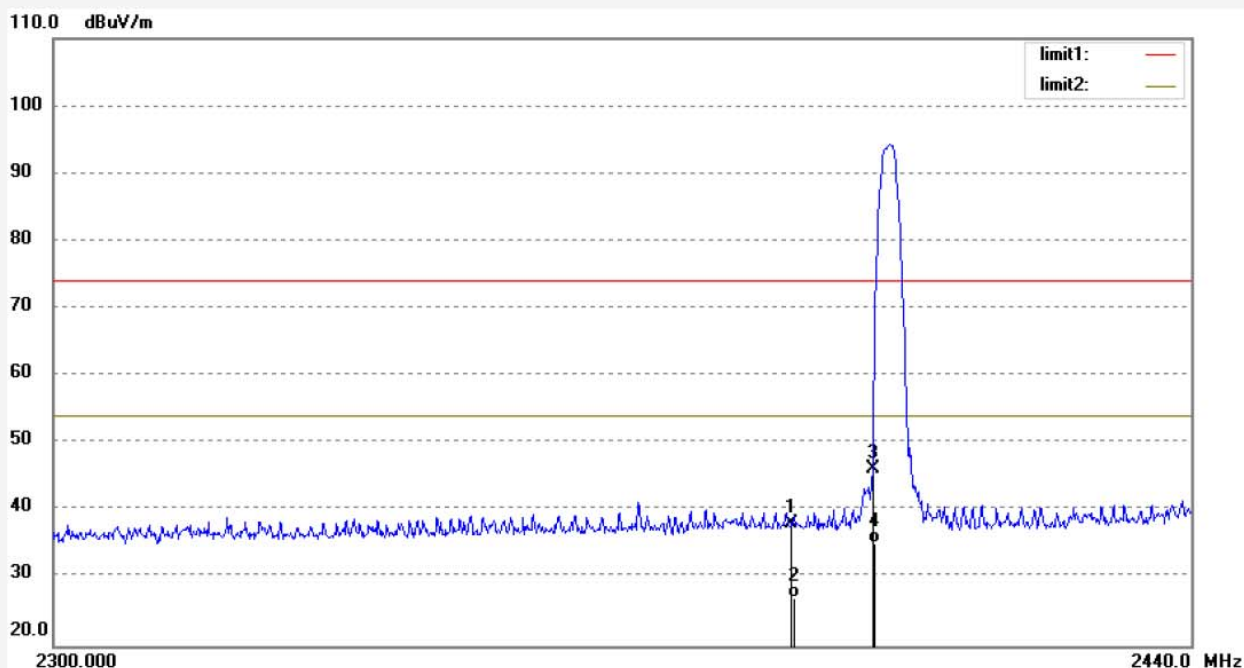
Time: 12:50:33

Engineer Signature: Ben

Distance: 3m

Manufacturer: Guandong Creator & FlyAudio Electronic Technology Co., Ltd.

Note: Report NO.:ATE20200335



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	37.30	0.79	38.09	74.00	-35.91	peak	250	102	
2	2390.000	26.31	0.79	27.10	54.00	-26.90	AVG	250	135	
3	2400.000	45.28	0.88	46.16	74.00	-27.84	peak	250	196	
4	2400.000	34.32	0.88	35.20	54.00	-18.80	AVG	250	245	

Job No.: JPZRLK #68

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2402MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

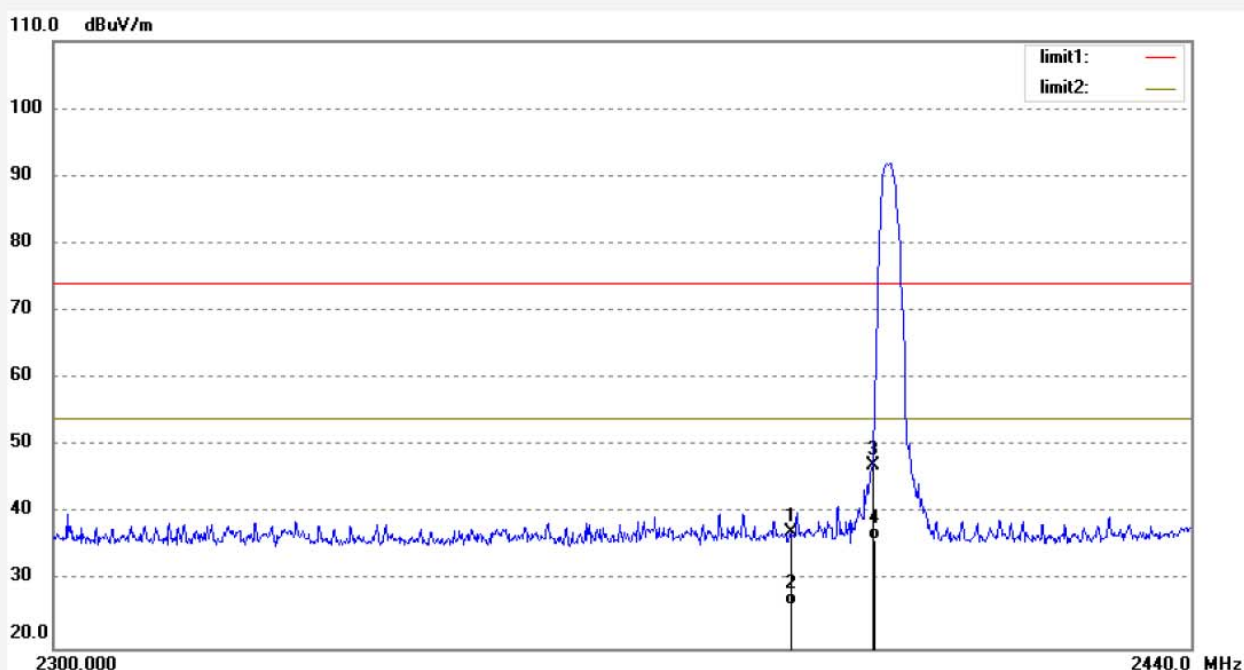
Date: 2020/04/18

Time: 12:51:33

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



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	36.53	0.79	37.32	74.00	-36.68	peak	150	136	
2	2390.000	25.61	0.79	26.40	54.00	-27.60	AVG	150	156	
3	2400.000	46.18	0.88	47.06	74.00	-26.94	peak	150	196	
4	2400.000	35.22	0.88	36.10	54.00	-17.90	AVG	150	286	

Job No.: JPZRLK #66

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2480MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

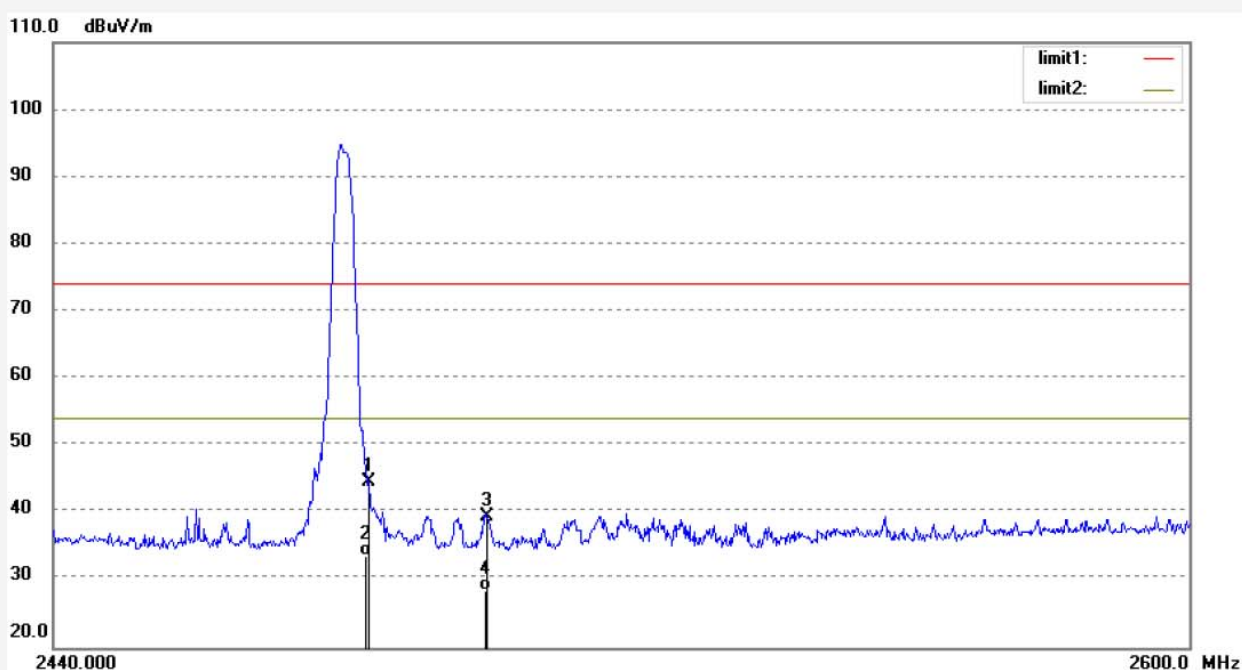
Date: 2020/04/18

Time: 12:48:51

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



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	43.60	1.10	44.70	74.00	-29.30	peak	250	136	
2	2483.500	32.60	1.10	33.70	54.00	-20.30	AVG	250	158	
3	2500.000	38.46	1.10	39.56	74.00	-34.44	peak	250	196	
4	2500.000	27.40	1.10	28.50	54.00	-25.50	AVG	250	302	

Job No.: JPZRLK #65

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2480MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

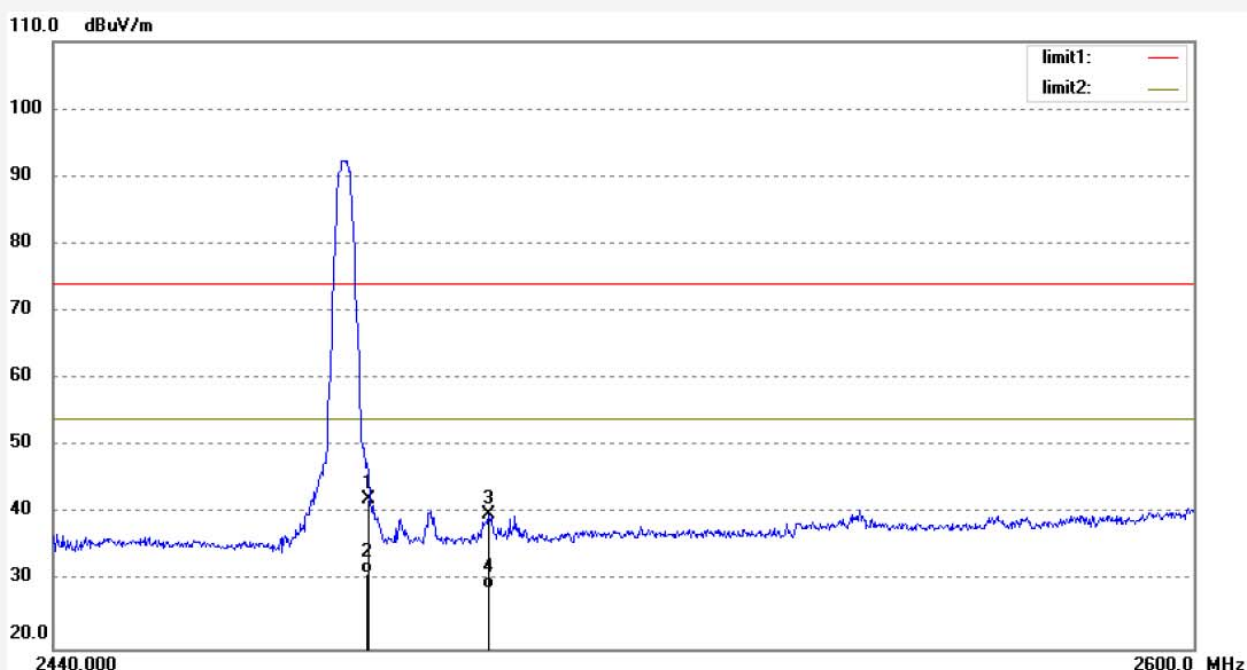
Date: 2020/04/18

Time: 12:47:54

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



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	41.05	1.10	42.15	74.00	-31.85	peak	150	103	
2	2483.500	30.00	1.10	31.10	54.00	-22.90	AVG	150	163	
3	2500.000	38.79	1.10	39.89	74.00	-34.11	peak	150	198	
4	2500.000	27.80	1.10	28.90	54.00	-25.10	AVG	150	263	

Radiated Band Edge Result(Bluetooth rate: 2MHz)



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Job No.: JPZRLK #69

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2402MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

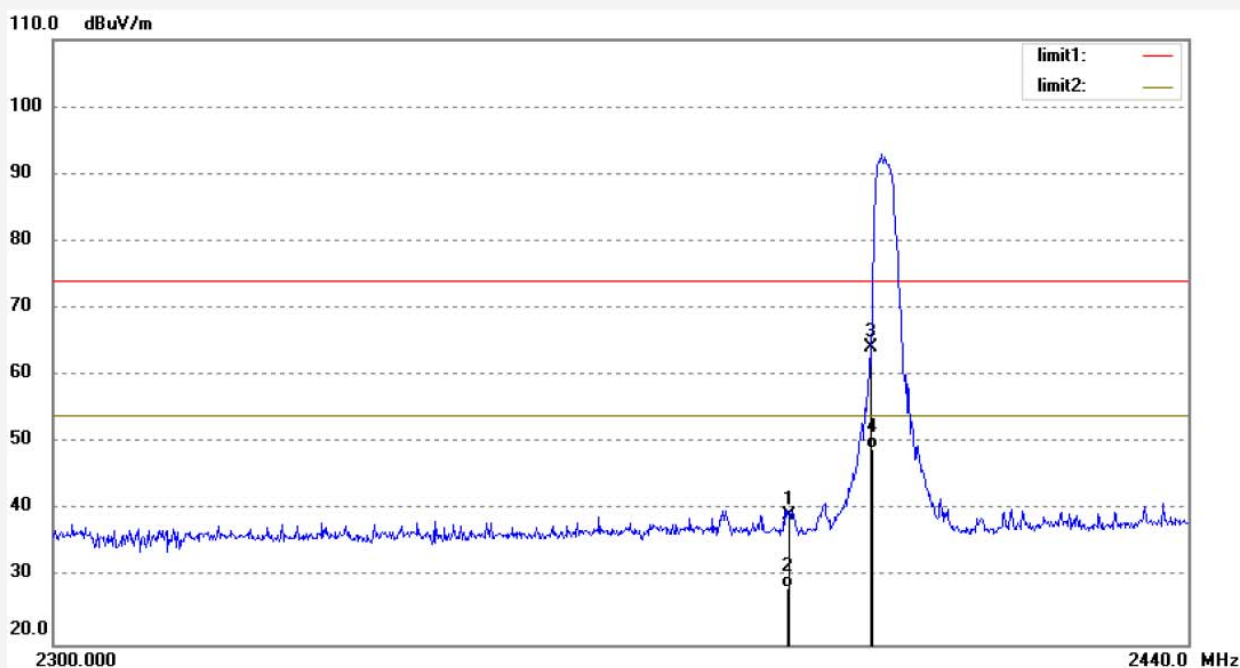
Date: 2020/04/18

Time: 12:58:05

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



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	38.54	0.79	39.33	74.00	-34.67	peak	250	105	
2	2390.000	27.61	0.79	28.40	54.00	-25.60	AVG	250	163	
3	2400.000	63.23	0.88	64.11	74.00	-9.89	peak	250	202	
4	2400.000	48.22	0.88	49.10	54.00	-4.90	AVG	250	263	

Job No.: JPZRLK #70

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2402MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

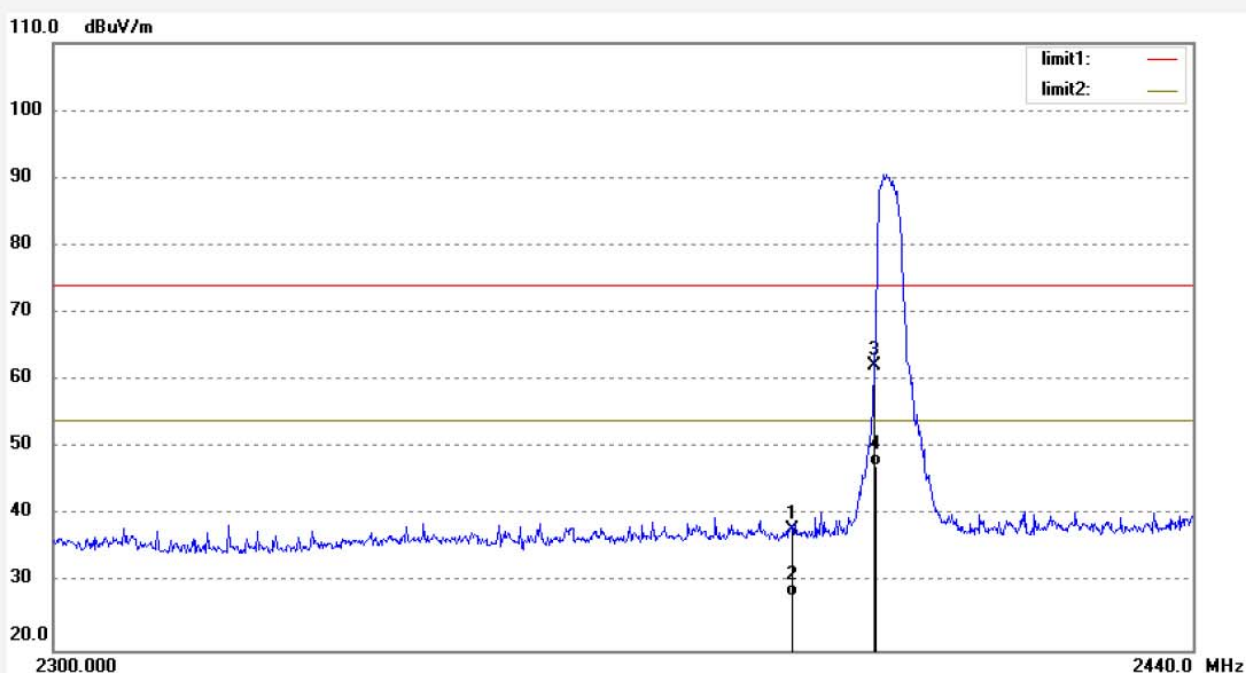
Date: 2020/04/18

Time: 12:59:43

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



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	37.16	0.79	37.95	74.00	-36.05	peak	150	125	
2	2390.000	27.21	0.79	28.00	54.00	-26.00	AVG	150	186	
3	2400.000	61.40	0.88	62.28	74.00	-11.72	peak	150	202	
4	2400.000	46.42	0.88	47.30	54.00	-6.70	AVG	150	286	

Job No.: JPZRLK #73

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2480MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

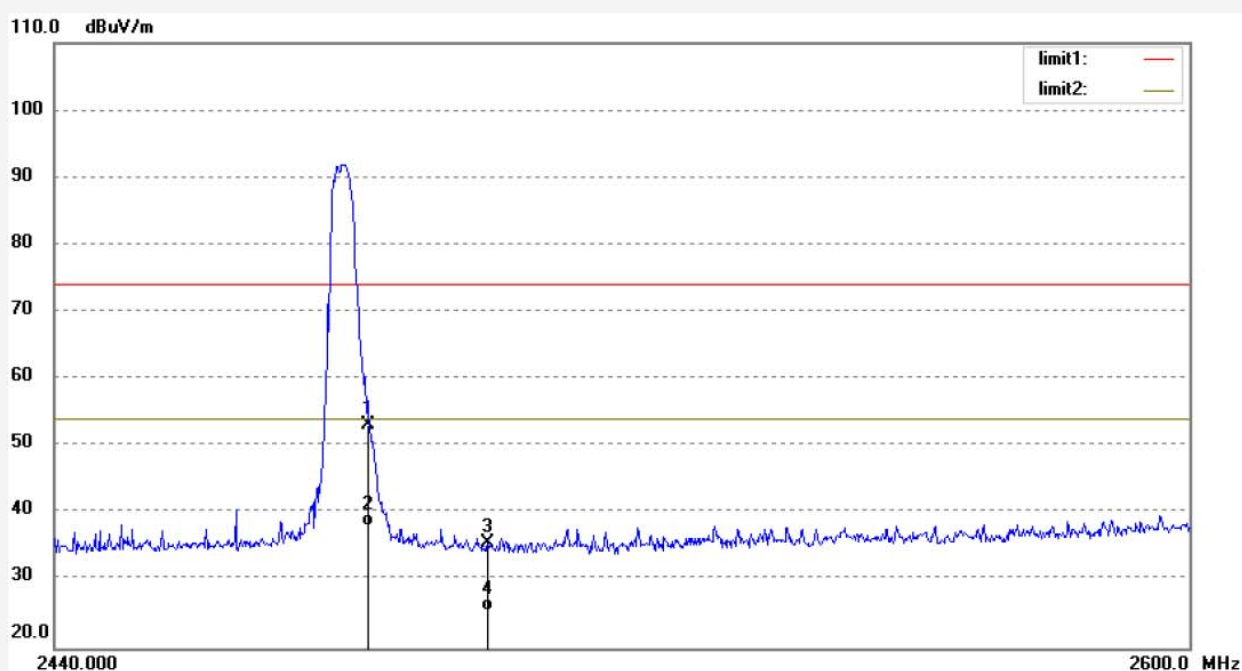
Date: 2020/04/18

Time: 13:03:24

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



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	52.10	1.10	53.20	74.00	-20.80	peak	250	103	
2	2483.500	37.10	1.10	38.20	54.00	-15.80	AVG	250	163	
3	2500.000	34.47	1.10	35.57	74.00	-38.43	peak	250	215	
4	2500.000	24.40	1.10	25.50	54.00	-28.50	AVG	250	296	

Job No.: JPZRLK #71

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2480MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

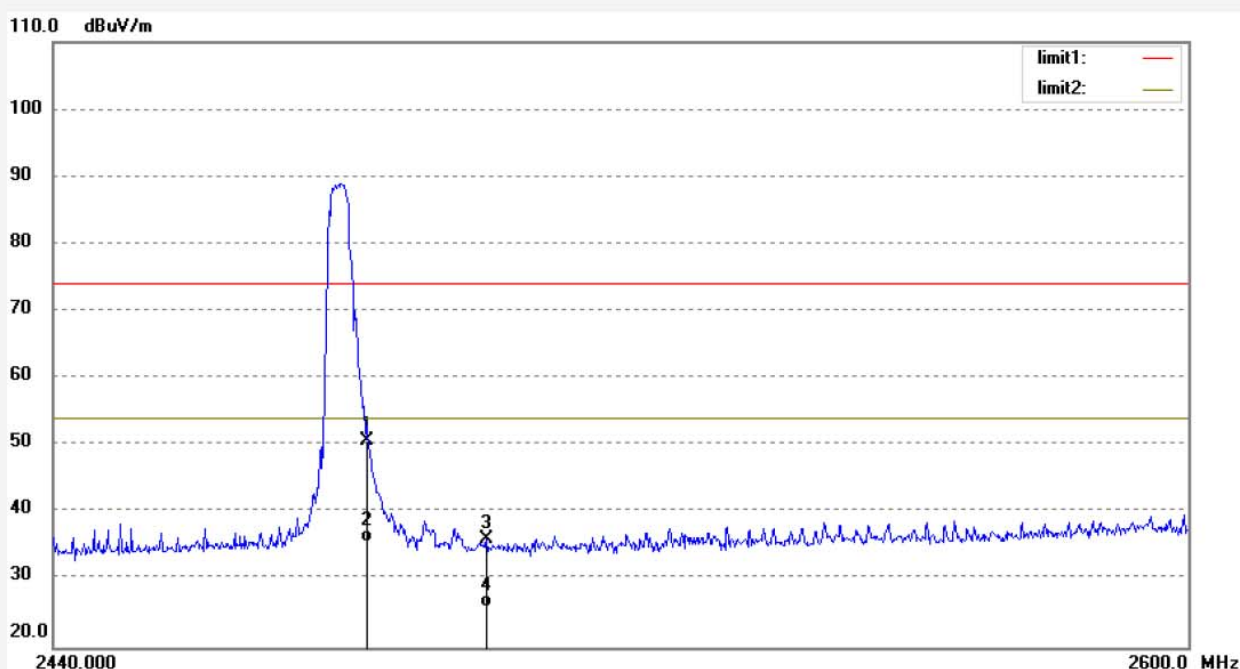
Date: 2020/04/18

Time: 13:01:24

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



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	49.60	1.10	50.70	74.00	-23.30	peak	150	116	
2	2483.500	34.60	1.10	35.70	54.00	-18.30	AVG	150	165	
3	2500.000	34.97	1.10	36.07	74.00	-37.93	peak	150	198	
4	2500.000	24.90	1.10	26.00	54.00	-28.00	AVG	150	245	

Note:

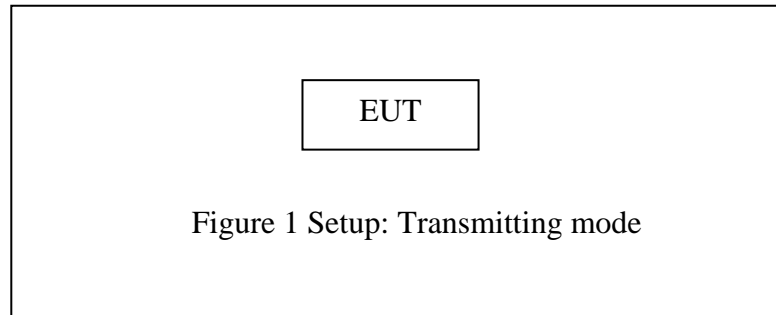
1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is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

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

9. RADIATED SPURIOUS EMISSION TEST

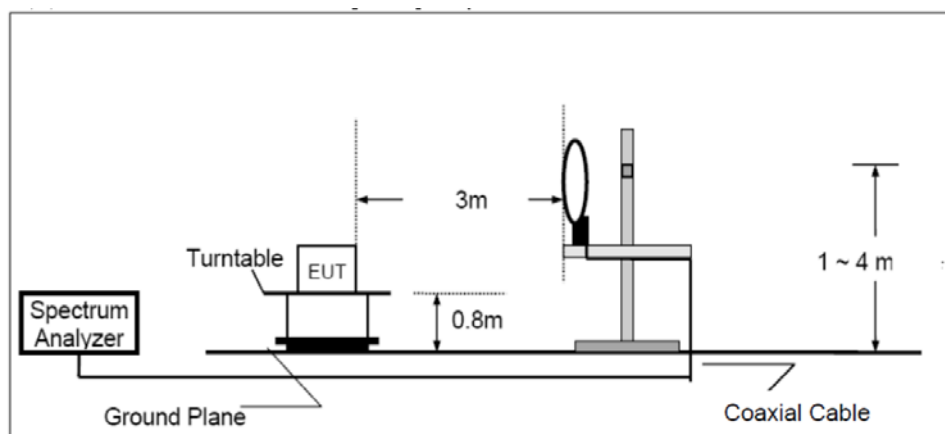
9.1. Block Diagram of Test Setup

9.1.1. Block diagram of connection between the EUT and peripherals

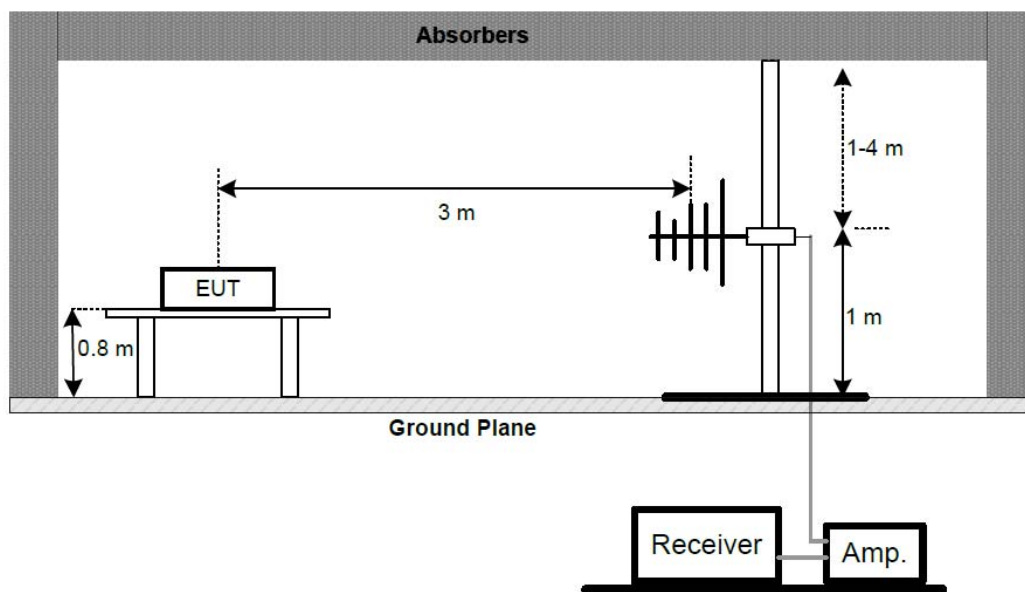


9.1.2. Semi-Anechoic Chamber Test Setup Diagram

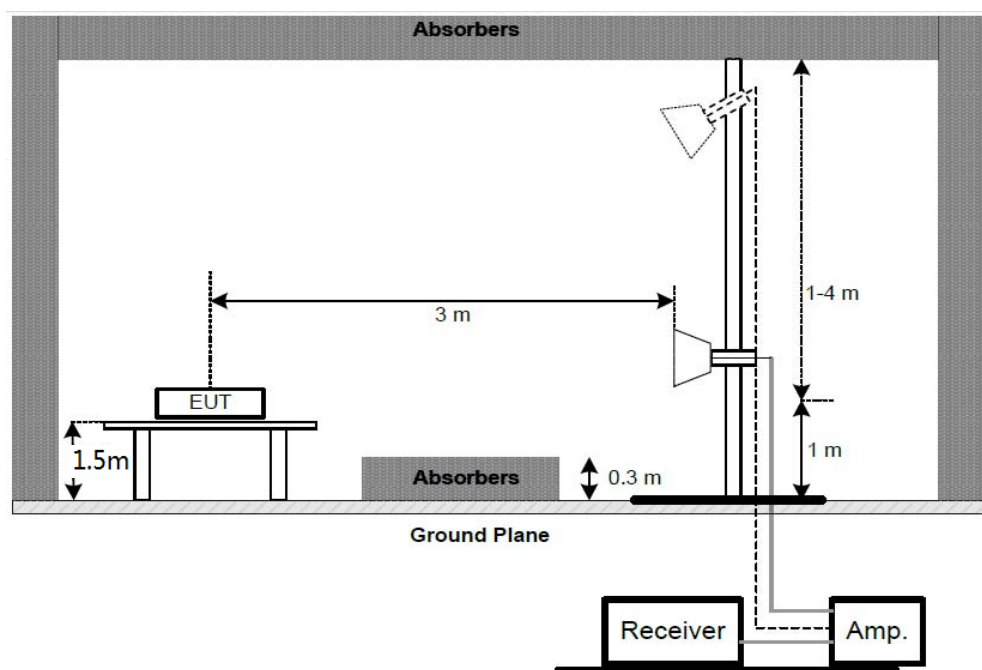
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1GHz



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



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			

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

²Above 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.

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.Data Sample

Frequency (MHz)	Reading (dB μ v)	Factor (dB/m)	Result (dB μ v/m)	Limit (dB μ v/m)	Margin (dB)	Remark
X.XX	28.66	-15.19	13.47	40.0	-26.53	QP

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ v) = Uncorrected Analyzer/Receiver reading

Factor (dB/m) = Antenna factor + Cable Loss – Amplifier gain

Result(dB μ v/m) = Reading(dB μ v) + Factor(dB/m)

Limit (dB μ v/m) = Limit stated in standard

Margin (dB) = Result(dB μ v/m) - Limit (dB μ v/m)

QP = Quasi-peak Reading

Calculation Formula:

Margin(dB) = Result (dB μ V/m)–Limit(dB μ V/m)

Result(dB μ V/m)= Reading(dB μ V)+ Factor(dB/m)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

9.8.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 9kHz-30MHz and 18-25GHz are not reported, because the test values lower than the limits of 20dB. We tested different rate launch modes and recorded the worst mode(1MHz) test data

Below 1GHz



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Job No.: jp2020 #57

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2402MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

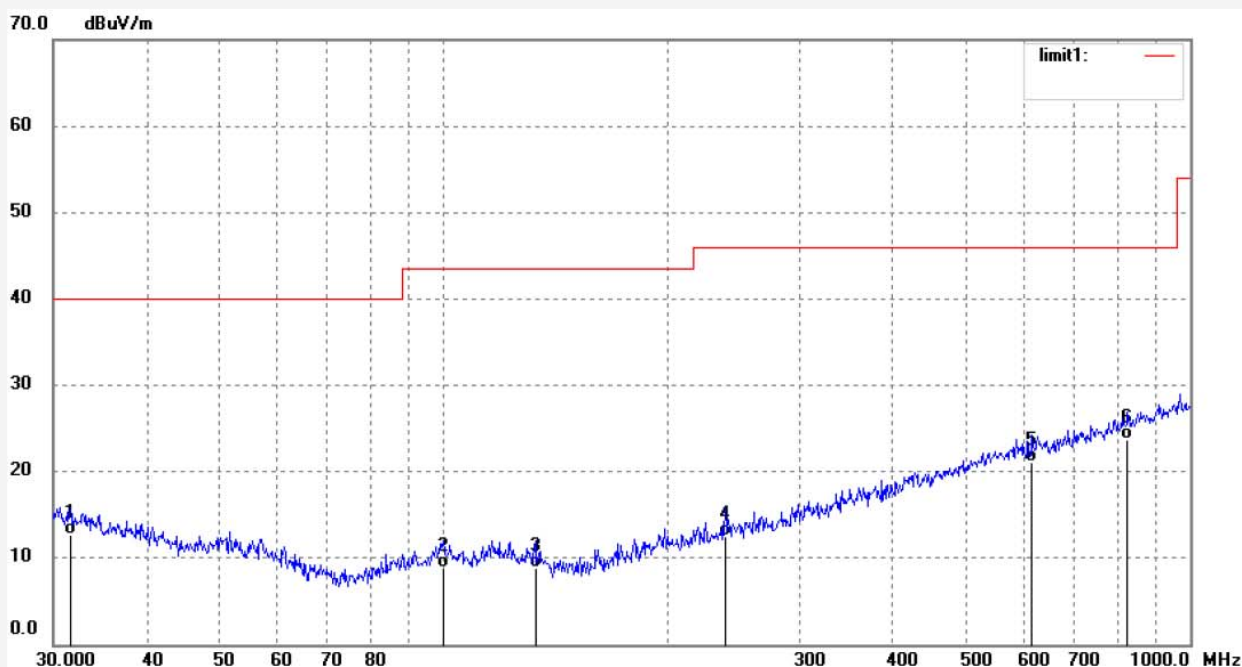
Date: 2020/04/16/

Time: 16/23/24

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.6202	23.11	-10.41	12.70	40.00	-27.30	QP	200	115	
2	99.8777	22.96	-14.16	8.80	43.50	-34.70	QP	200	136	
3	132.6850	23.78	-14.98	8.80	43.50	-34.70	QP	200	336	
4	238.3102	24.51	-11.91	12.60	46.00	-33.40	QP	200	186	
5	614.2142	24.86	-3.76	21.10	46.00	-24.90	QP	200	202	
6	824.5968	24.28	-0.58	23.70	46.00	-22.30	QP	200	296	

Job No.: jp2020 #56

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2402MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

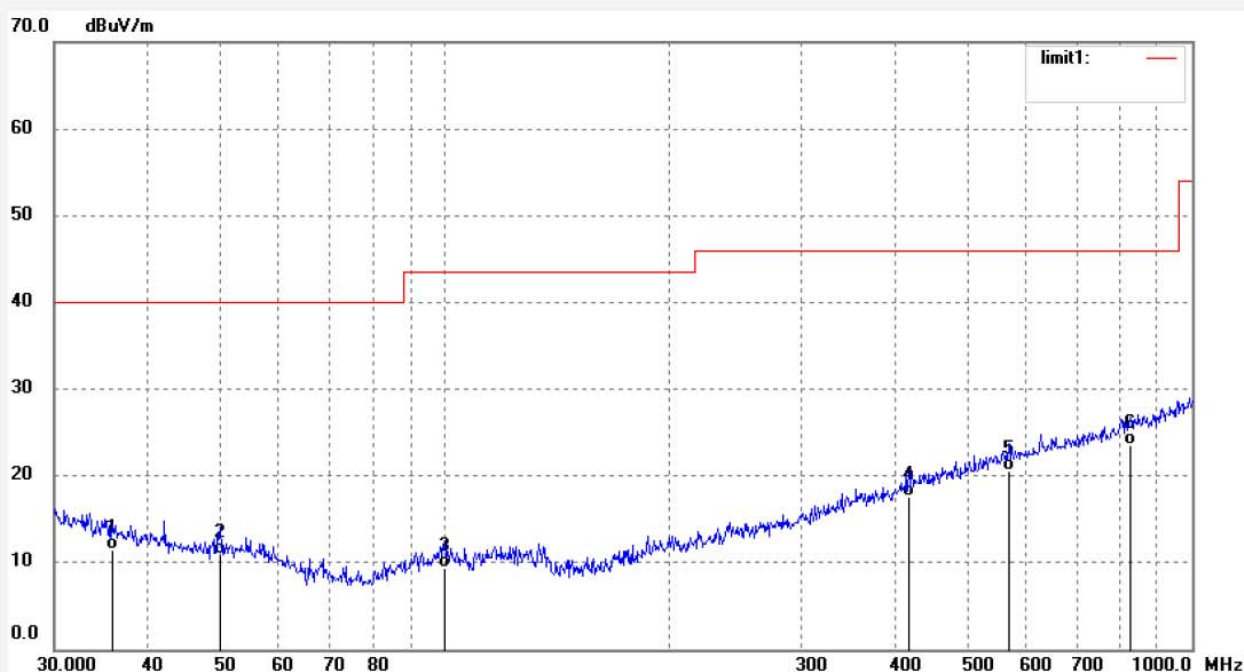
Date: 2020/04/16/

Time: 16/22/28

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.8746	23.12	-11.62	11.50	40.00	-28.50	QP	100	152	
2	50.0566	24.51	-13.61	10.90	40.00	-29.10	QP	100	163	
3	99.8777	23.46	-14.16	9.30	43.50	-34.20	QP	100	286	
4	417.6409	24.87	-7.27	17.60	46.00	-28.40	QP	100	326	
5	568.6127	24.94	-4.34	20.60	46.00	-25.40	QP	100	198	
6	827.4932	24.02	-0.52	23.50	46.00	-22.50	QP	100	245	

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Job No.: jp2020 #58

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2440MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

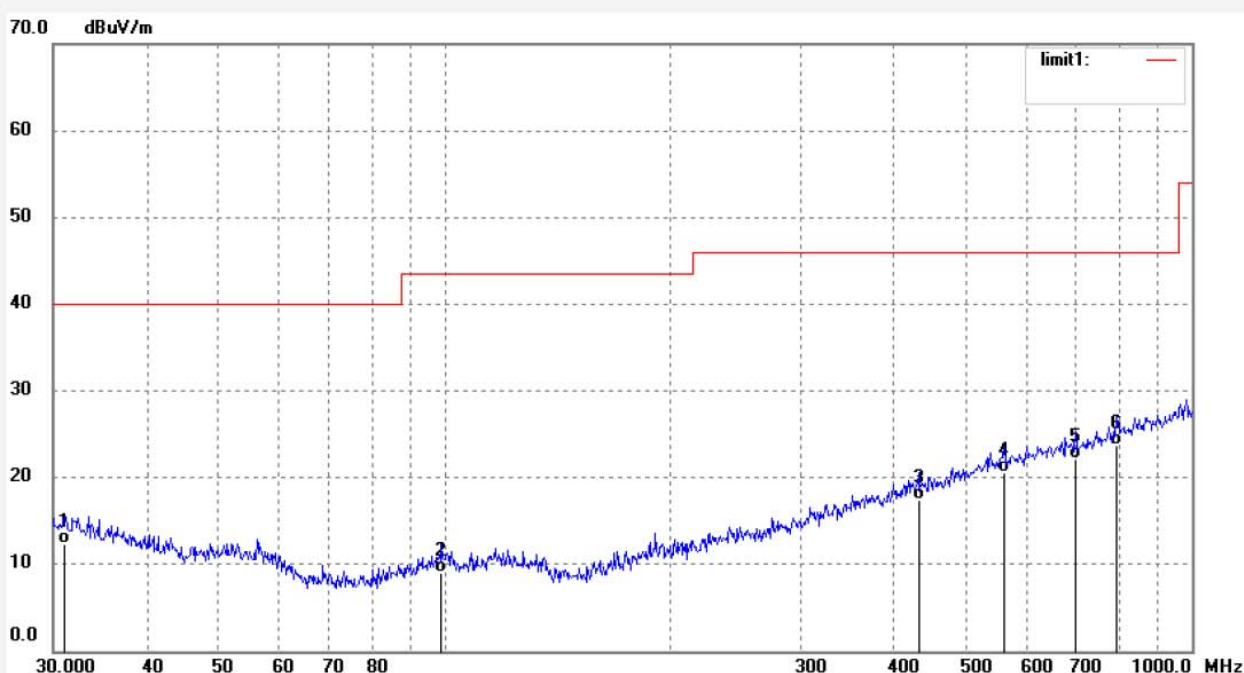
Date: 2020/04/16/

Time: 16/24/29

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.0705	22.65	-10.25	12.40	40.00	-27.60	QP	200	145	
2	99.1796	23.40	-14.40	9.00	43.50	-34.50	QP	200	314	
3	431.0316	24.41	-7.01	17.40	46.00	-28.60	QP	200	185	
4	560.6928	24.95	-4.45	20.50	46.00	-25.50	QP	200	163	
5	699.3046	24.97	-2.77	22.20	46.00	-23.80	QP	200	263	
6	793.3958	24.92	-1.12	23.80	46.00	-22.20	QP	200	215	

Job No.: jp2020 #59

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2440MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

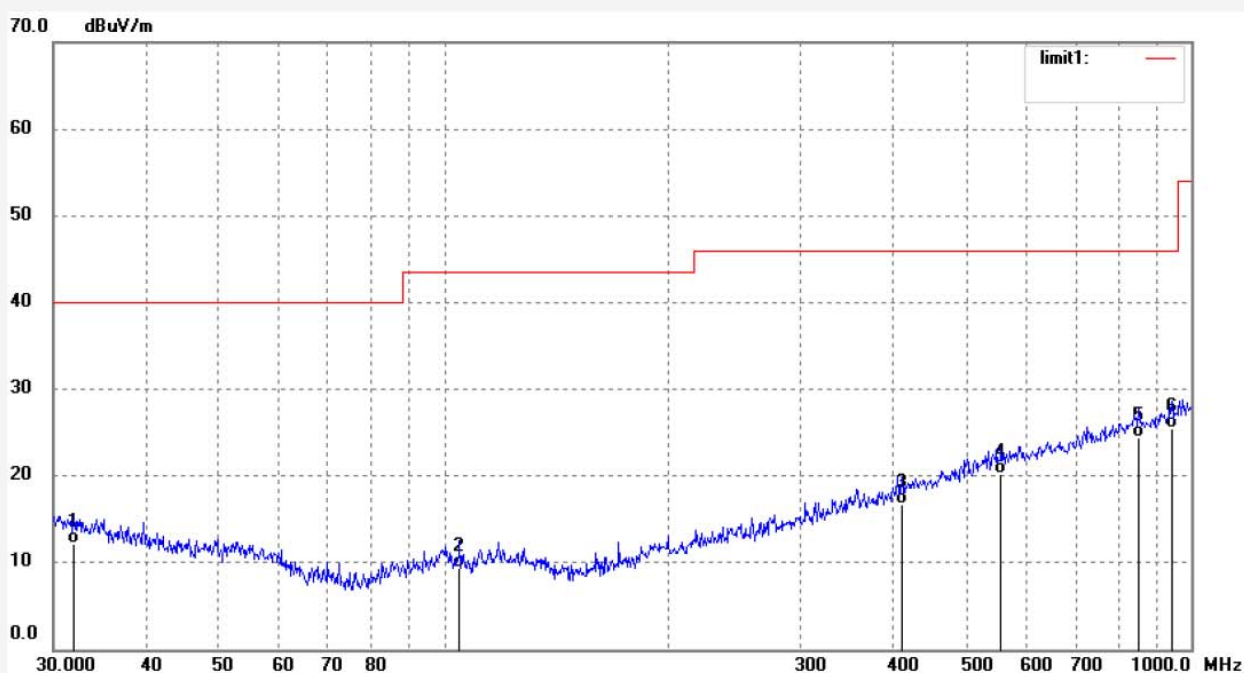
Date: 2020/04/16/

Time: 16/25/26

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.9545	22.71	-10.51	12.20	40.00	-27.80	QP	100	136	
2	104.9033	24.23	-14.93	9.30	43.50	-34.20	QP	100	156	
3	410.3824	24.25	-7.55	16.70	46.00	-29.30	QP	100	296	
4	556.7744	24.68	-4.48	20.20	46.00	-25.80	QP	100	196	
5	851.0353	24.78	-0.28	24.50	46.00	-21.50	QP	100	202	
6	942.1304	24.42	0.98	25.40	46.00	-20.60	QP	100	245	

Job No.: jp2020 #61

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2480MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

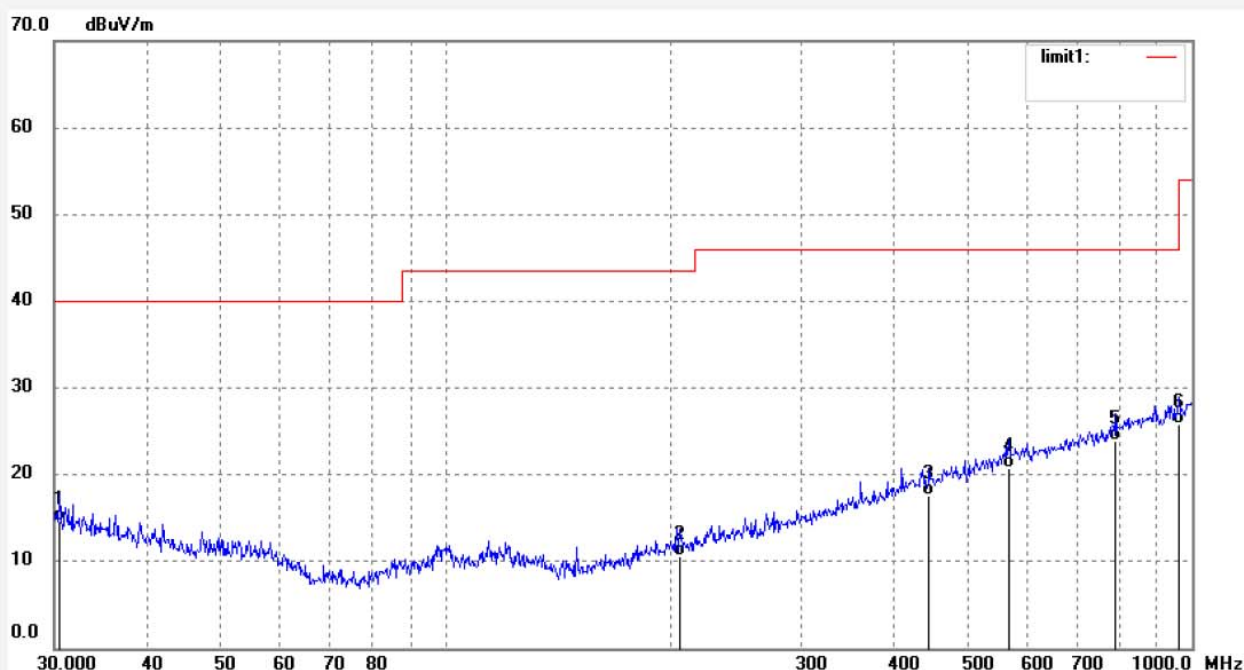
Date: 2020/04/16/

Time: 16/27/21

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBUV/m)	Factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.5305	24.68	-10.08	14.60	40.00	-25.40	QP	200	135	
2	206.3976	23.87	-13.27	10.60	43.50	-32.90	QP	200	198	
3	444.8514	24.46	-6.86	17.60	46.00	-28.40	QP	200	102	
4	568.6127	25.14	-4.34	20.80	46.00	-25.20	QP	200	163	
5	790.6187	25.05	-1.15	23.90	46.00	-22.10	QP	200	286	
6	962.1622	24.43	1.37	25.80	54.00	-28.20	QP	200	316	

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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: jp2020 #60

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2480MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

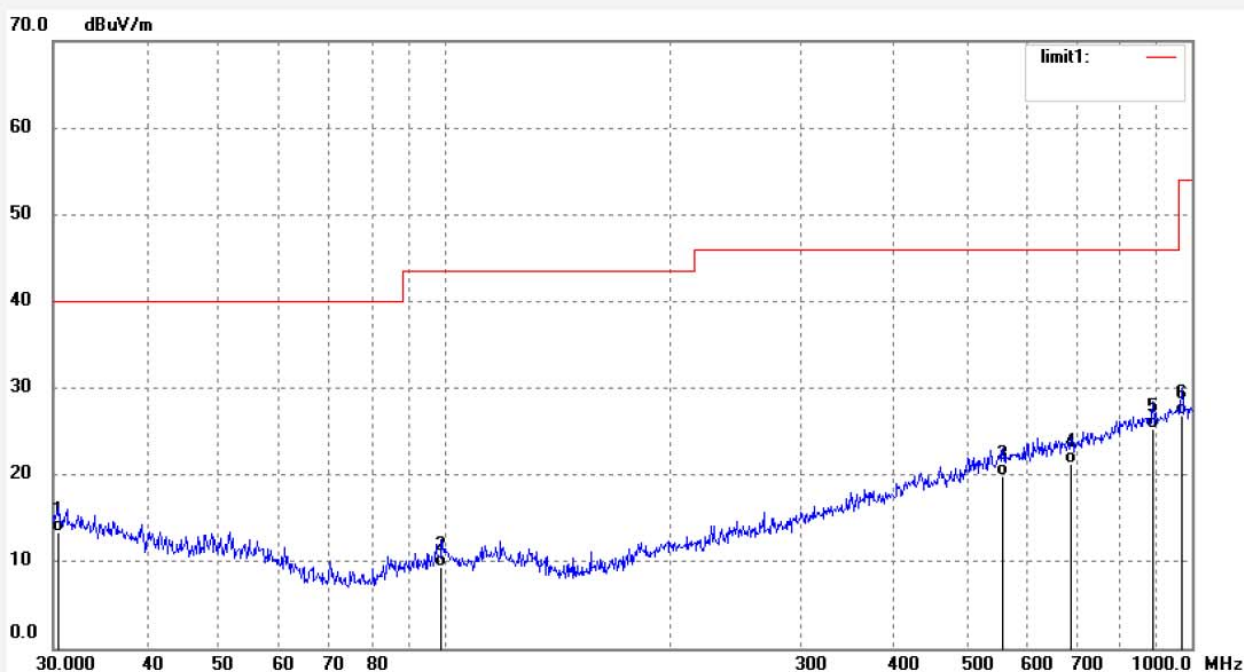
Date: 2020/04/16/

Time: 16/26/21

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.5305	23.48	-10.08	13.40	40.00	-26.60	QP	100	102	
2	99.1796	23.70	-14.40	9.30	43.50	-34.20	QP	100	325	
3	558.7301	24.27	-4.47	19.80	46.00	-26.20	QP	100	298	
4	689.5643	24.12	-2.92	21.20	46.00	-24.80	QP	100	236	
5	887.6099	25.06	0.24	25.30	46.00	-20.70	QP	100	186	
6	968.9338	25.37	1.43	26.80	54.00	-27.20	QP	100	136	

Above 1GHz



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Fax:+86-0755-26503396

Job No.: JPZRLK #58

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2402MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

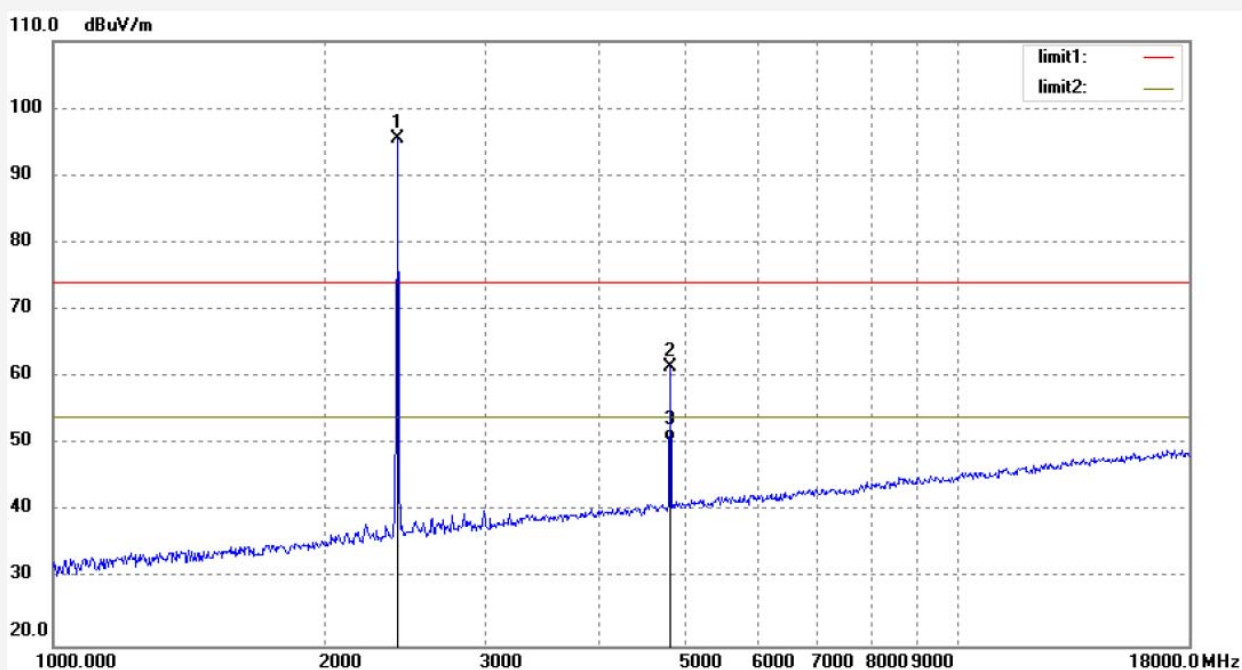
Date: 2020/04/18/

Time: 12/38/17

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	94.59	0.88	95.47			peak	250	136	
2	4804.000	54.17	7.40	61.57	74.00	-12.43	peak	250	165	
3	4804.000	43.10	7.40	50.50	54.00	-3.50	AVG	250	236	

Job No.: JPZRLK #59

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2402MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

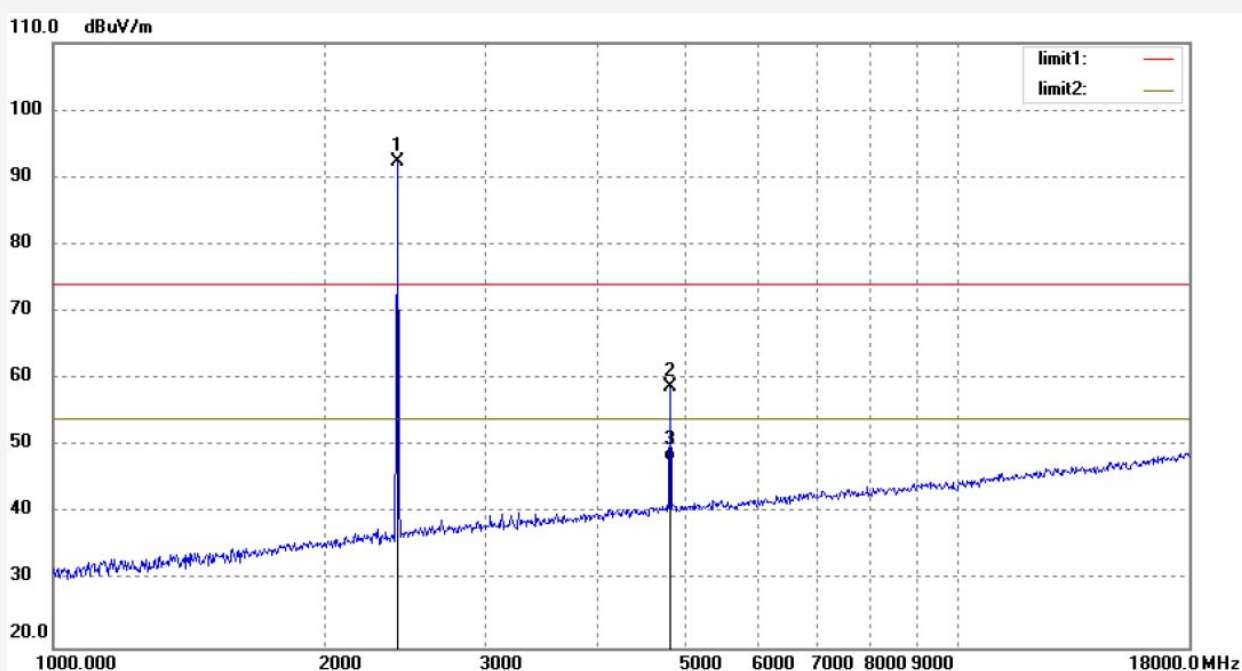
Date: 2020/04/18

Time: 12:40:01

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	91.46	0.88	92.34			peak	150	163	
2	4804.000	51.31	7.40	58.71	74.00	-15.29	peak	150	198	
3	4804.000	40.30	7.40	47.70	54.00	-6.30	AVG	150	263	

Job No.: JPZRLK #62

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2440MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

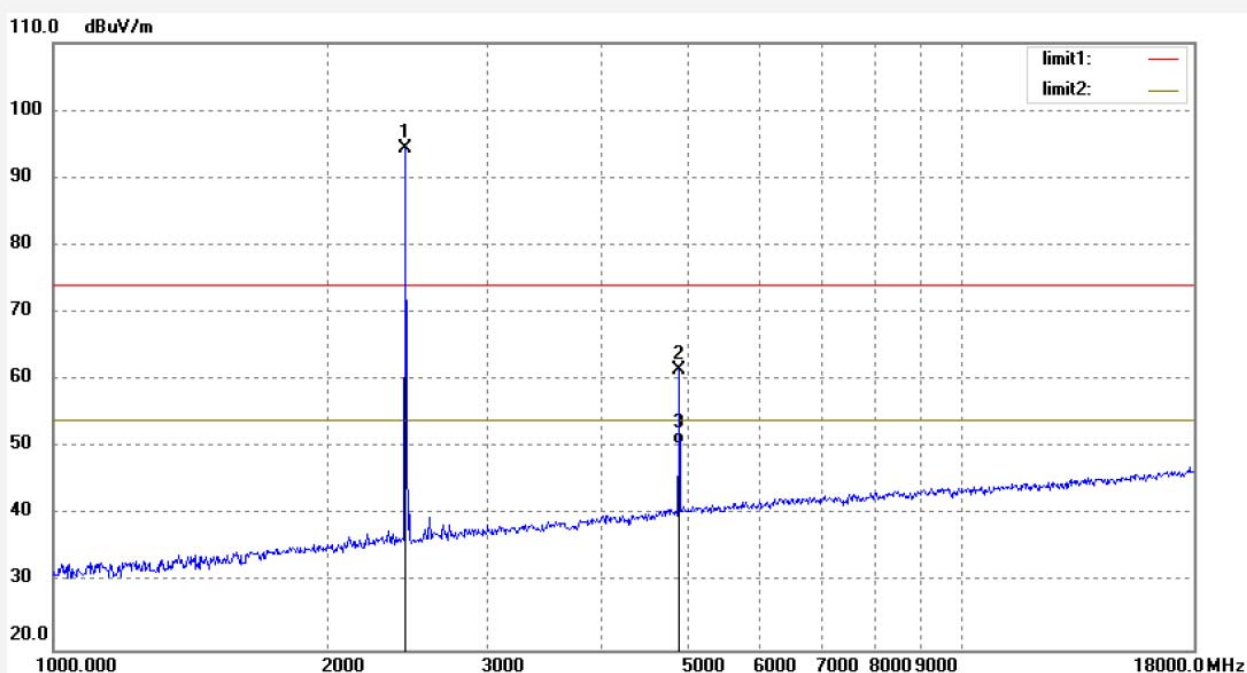
Date: 2020/04/18

Time: 12:43:46

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	93.24	1.06	94.30			peak	250	145	
2	4880.000	53.36	8.17	61.53	74.00	-12.47	peak	250	196	
3	4880.000	42.23	8.17	50.40	54.00	-3.60	AVG	250	263	

Job No.: JPZRLK #61

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2440MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

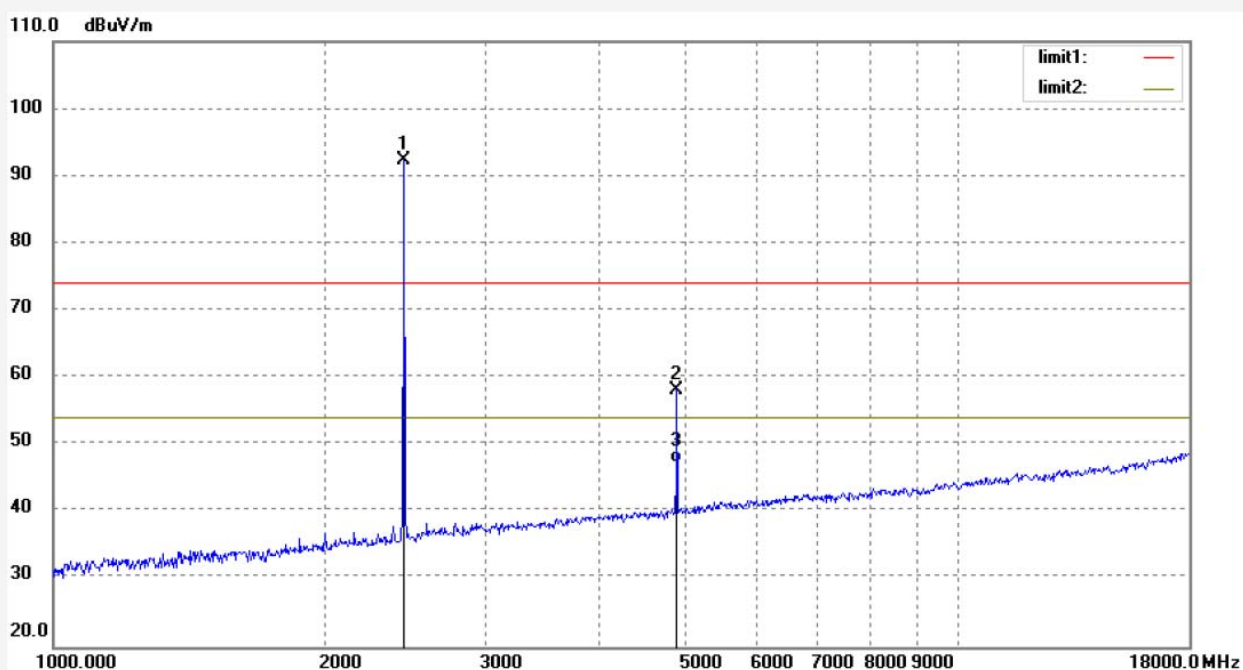
Date: 2020/04/18

Time: 12:42:53

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	91.23	1.06	92.29			peak	150	115	
2	4880.000	50.08	8.17	58.25	74.00	-15.75	peak	150	196	
3	4880.000	39.23	8.17	47.40	54.00	-6.60	AVG	150	205	

Job No.: JPZRLK #63

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2480MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Horizontal

Power Source: DC 3V

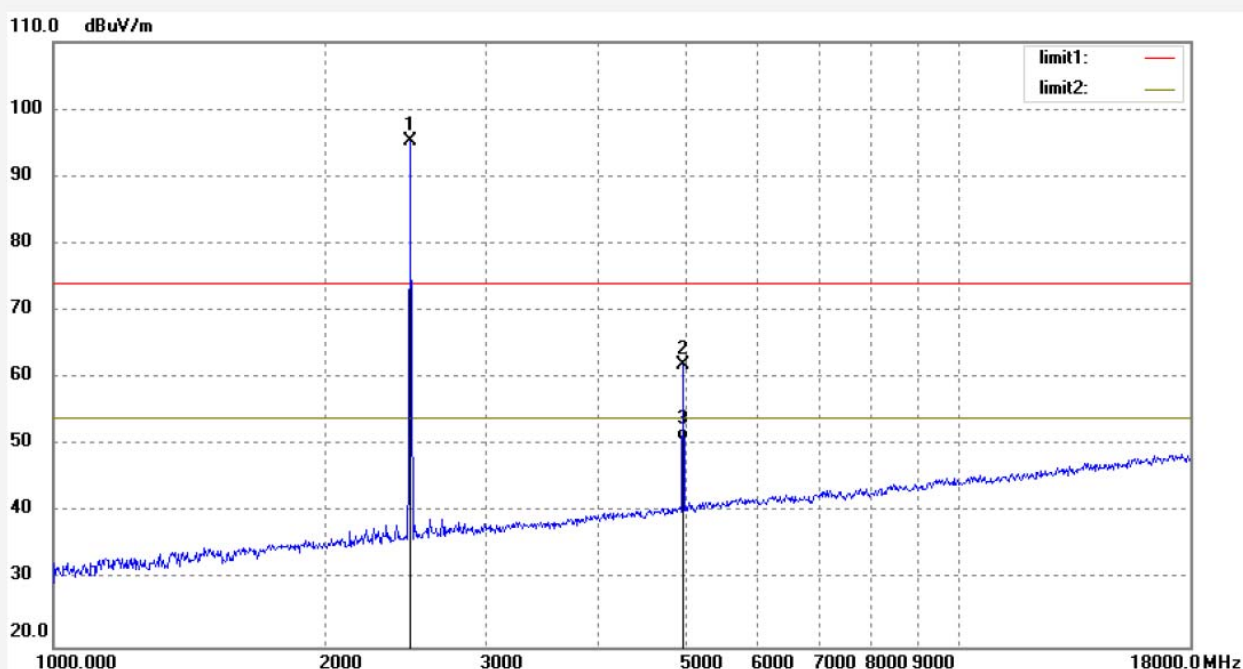
Date: 2020/04/18

Time: 12:45:24

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	94.08	1.09	95.17			peak	250	125	
2	4960.000	53.29	8.58	61.87	74.00	-12.13	peak	250	186	
3	4960.000	42.12	8.58	50.70	54.00	-3.30	AVG	250	302	

Job No.: JPZRLK #64

Standard: FCC PK

Test item: Radiation Test

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

EUT: qingping Temp & RH Monitor Lite

Mode: TX 2480MHz

Model: CGDK2

Manufacturer: Guanddong Creator & FlyAudio Electronic Technology Co., Ltd.

Polarization: Vertical

Power Source: DC 3V

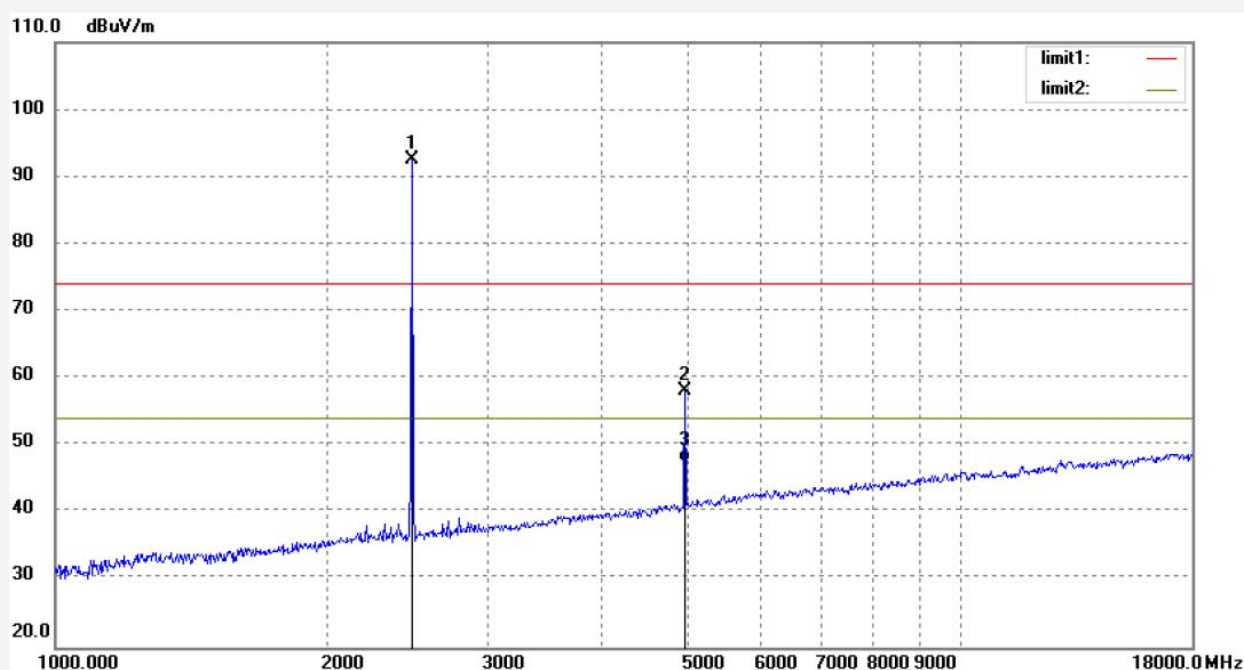
Date: 2020/04/18

Time: 12:46:27

Engineer Signature: Ben

Distance: 3m

Note: Report NO.:ATE20200335



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	91.39	1.09	92.48			peak	150	196	
2	4960.000	49.64	8.58	58.22	74.00	-15.78	peak	150	128	
3	4960.000	38.92	8.58	47.50	54.00	-6.50	AVG	150	202	

10.ANTENNA REQUIREMENT

10.1.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.

10.2.Antenna Construction

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



Antenna