

FCC CERTIFICATION TEST REPORT

FOR

Applicant	:	KineticsXR , Incorporated
Address	:	3411 Silverside RD STE 104, Wilmington, DE 19810-4809
Equipment under Test	:	K106
Model No.	:	K106
Trade Mark	:	N/A
FCC ID	:	2A96ZKXRK106
Manufacturer	:	KineticsXR , Incorporated
Address	:	3411 Silverside RD STE 104, Wilmington, DE 19810-4809

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, **E-mail:** ddt@dgddt.com, <http://www.dgddt.com>

REPORT

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Test Report Declare

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Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C

Test Procedure Used:

ANSI C63.10:2013

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.

Report No.:	DDT-R23011007-3E01		
Date of Receipt:	Feb. 08, 2023	Date of Test:	Feb. 08, 2023 ~ Feb. 17, 2023

Prepared By:*Sanvin Zheng***Sanvin Zheng/Engineer****Approved By:****Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Feb. 23, 2023	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.

Description of Test Item	Standard	Results
20 dB Bandwidth	FCC Part 15: 15.215 ANSI C63.10:2013	Pass
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.249 ANSI C63.10:2013	Pass
Band Edge Compliance	FCC Part 15: 15.205 FCC Part 15: 15.249 ANSI C63.10:2013	Pass
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	N/A
Antenna requirement	FCC Part 15: 15.203	Pass

Note: N/A is an abbreviation for Not Applicable.

2. General Test Information

2.1. Description of EUT

EUT* Name	: K106
Model Number	: K106
EUT Function Description	: Please reference user manual of this device
Power Supply	: Battery 1.5V ("AAA" Size)
Radio Specification	: 2.4G SRD
Operation Frequency	: 2402 MHz - 2480 MHz
Modulation	: GFSK
Data Rate	: 1Mbps, 2 Mbps
Antenna Gain	: Left-handle Maximum PK gain: 0.5 dBi Right-handle Maximum PK gain: 0.9 dBi
Sample Number	: S23011007-02 for conductive S23011007-03 for radiation

Note: EUT is the ab. of equipment under test.

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Serial No.	Other
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test

EUT

Test software: nR5_SDK_17.1.0_ddde560.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, channel, information		
Mode	Channel	Frequency (MHz)
GFSK_1M Tx mode	Low	2402
	Middle	2440
	High	2480
GFSK_2M Tx mode	Low	2402
	Middle	2440
	High	2480

2.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.6. Deviations of test standard

No deviation.

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2.8. Measurement uncertainty

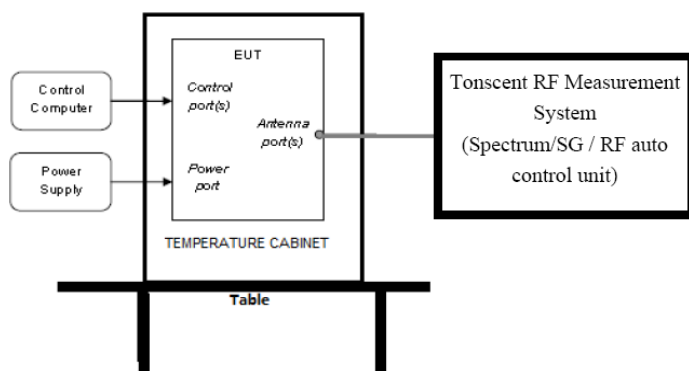
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$); 1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2%
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V) 4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 18 GHz)	4.10 dB (1-6 GHz) 4.40 dB (6 GHz - 18 GHz)
Uncertainty for Power line conduction emission test	3.32 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☑ RF Connected Test (Tonscend RF Measurement System 1#)					
SIGNAL ANALYZER	R&S	FSQ26	101272	May 18, 2022	1 Year
Wideband Radio Communication tester	R&S	CMW500	120259	Aug. 26, 2022	1 Year
MXG Vector Signal Generator	Agilent	N5182B	MY59100192	May. 18, 2022	1 Year
Vector Signal Generator	Agilent	N5182A	MY19060405	May 18, 2022	1 Year
RF Control Unit	Tonsend	JS0806-2	158060010	May 18, 2022	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	May 26, 2022	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.3.2.22	N/A	N/A
☑ Radiation 3#chamber					
EMI Test Receiver	R&S	ESU26	100472	May 19, 2022	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	May 17, 2022	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 29, 2022	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Jul. 22, 2022	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120 D	02468	Sep. 29, 2022	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 06, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Aug.17, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Apr. 11, 2022	1 Year
RE Cable	N/A	W23.02 CP1-X2 + W23.09 AP1-X8+ JCT26S-NJ-NJ-1.5M+ JCT26S-NJ-NJ-1.5M	4.5M+8M+1.5M+1.5M	Aug.17, 2022	1 Year
RF Cable	Yuhu Technology	JCTB810-NJ-NJ-9M	21123964	May 19, 2022	1 Year
RF Cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	21073466	Aug.17, 2022	1 Year
Test software	Tonscend	JS32-RE	V 5.0.0.1	N/A	N/A

4. 20 dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

RBW:	30 kHz
VBW:	100 kHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, measure the 20 dB bandwidth of signal.

4.4. Test result

Left-handle:

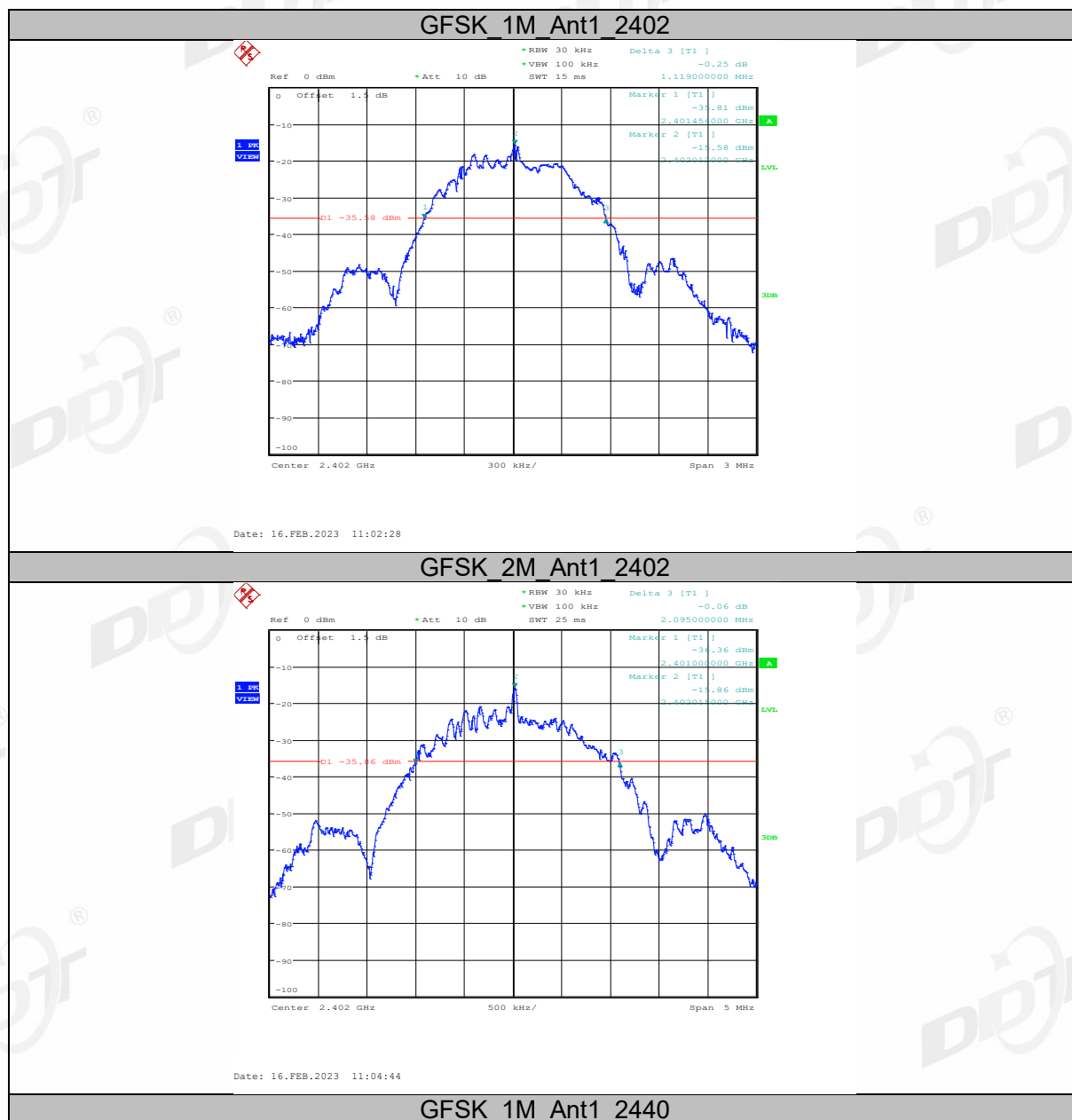
Test Mode	Freq. (MHz)	20 dB bandwidth Result (MHz)	Verdict
GFSK_1M mode	2402	1.12	Pass
	2440	1.12	Pass
	2480	1.13	Pass
GFSK_2M mode	2402	2.09	Pass
	2440	2.09	Pass
	2480	2.10	Pass

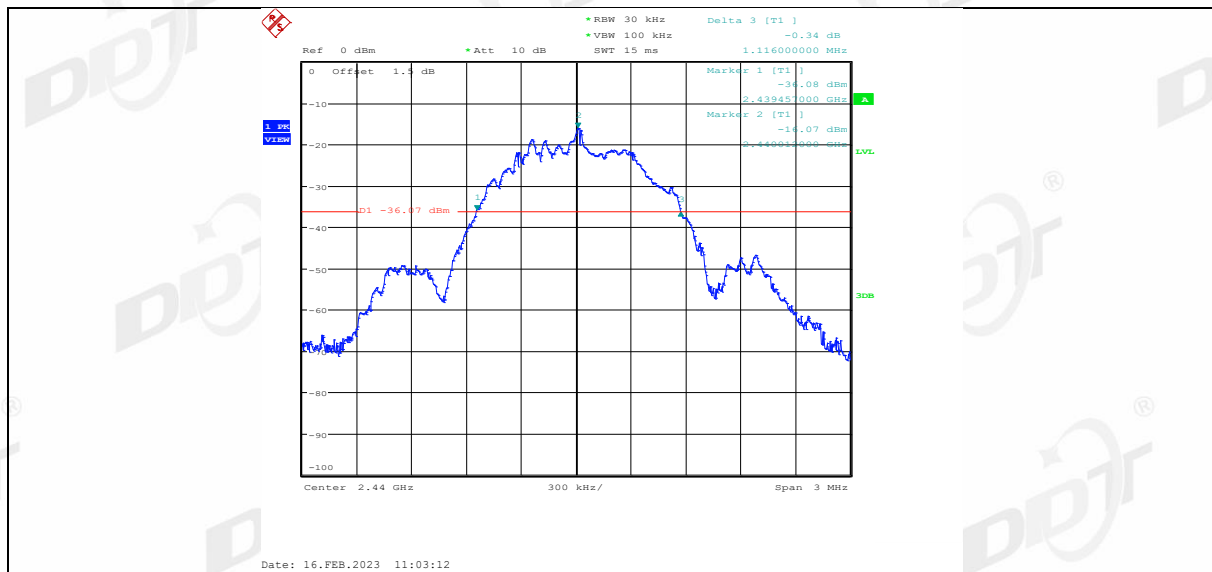
Right-handle:

Test Mode	Freq. (MHz)	20 dB bandwidth Result (MHz)	Verdict
GFSK_1M mode	2402	1.12	Pass
	2440	1.12	Pass
	2480	1.13	Pass
GFSK_2M mode	2402	2.09	Pass
	2440	2.10	Pass
	2480	2.10	Pass

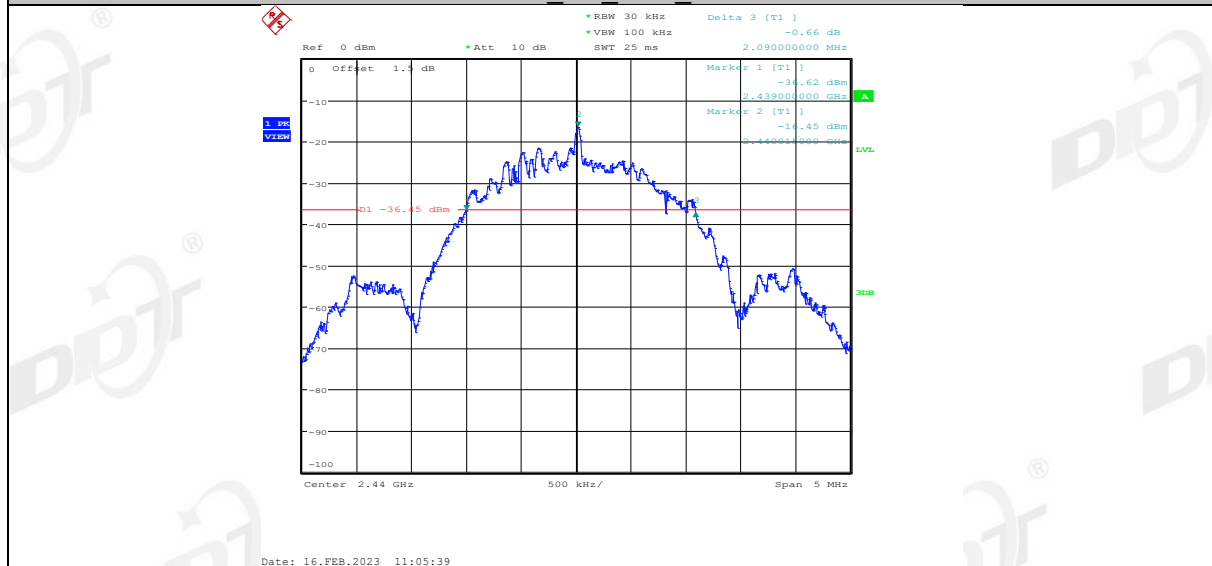
4.5. Original test data

Left-handle:

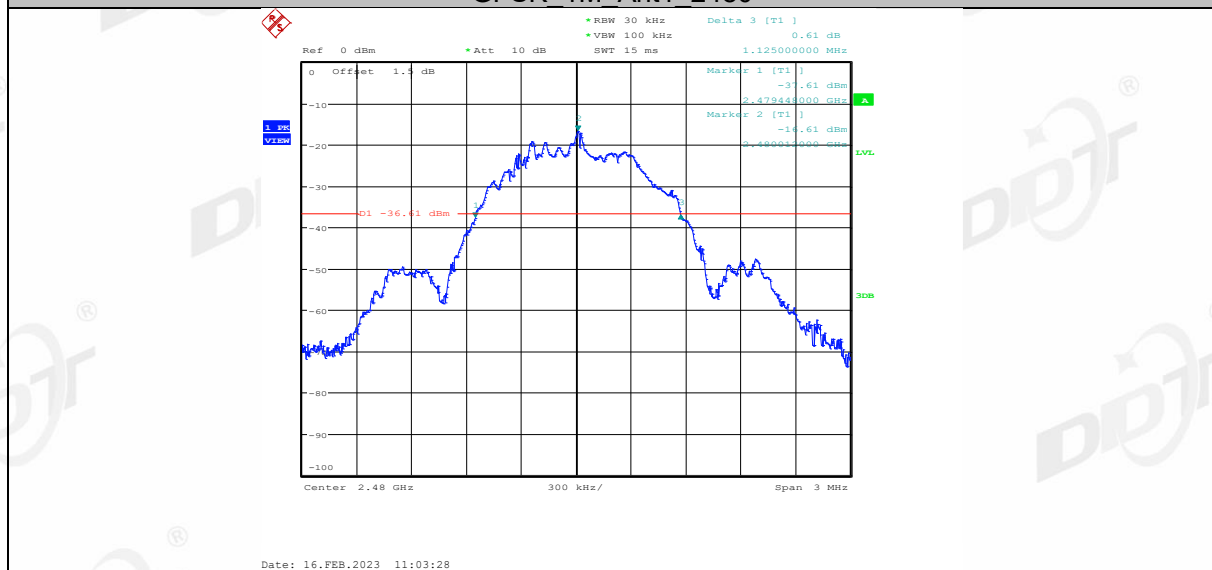




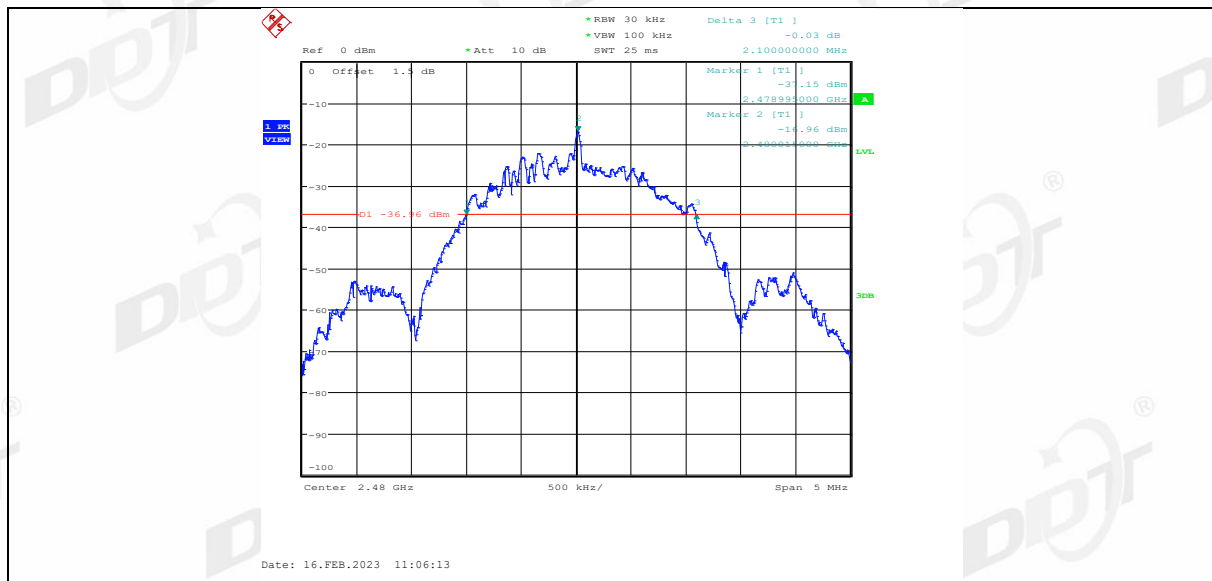
GFSK 2M Ant1 2440



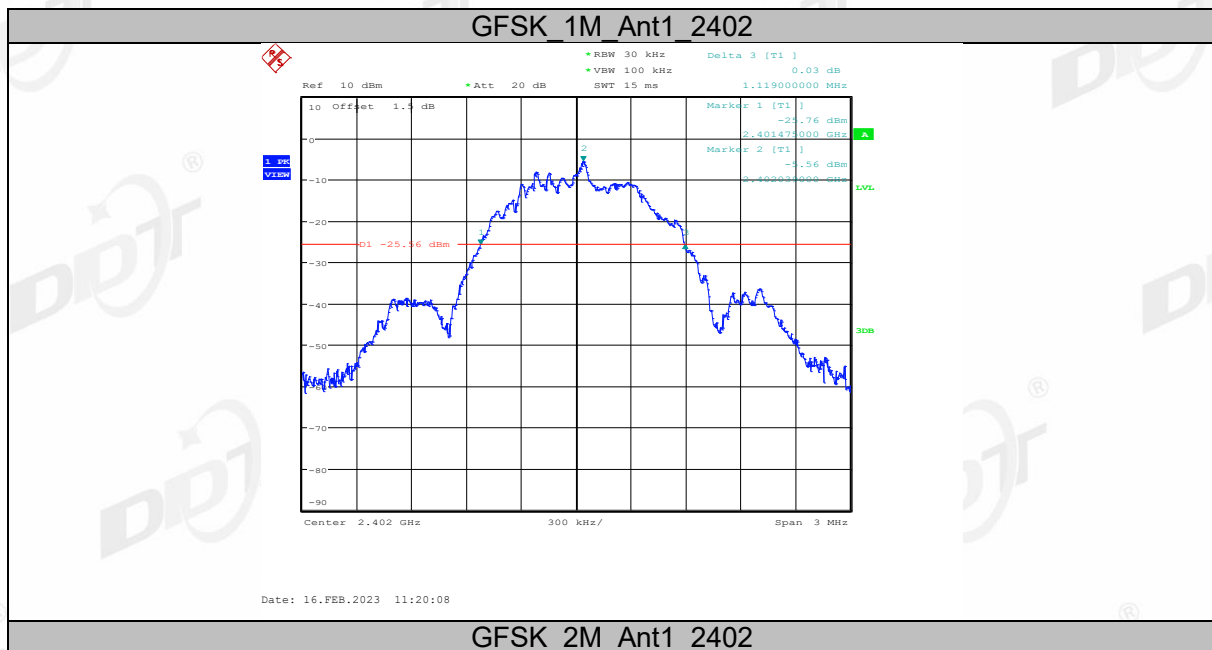
GFSK 1M Ant1 2480

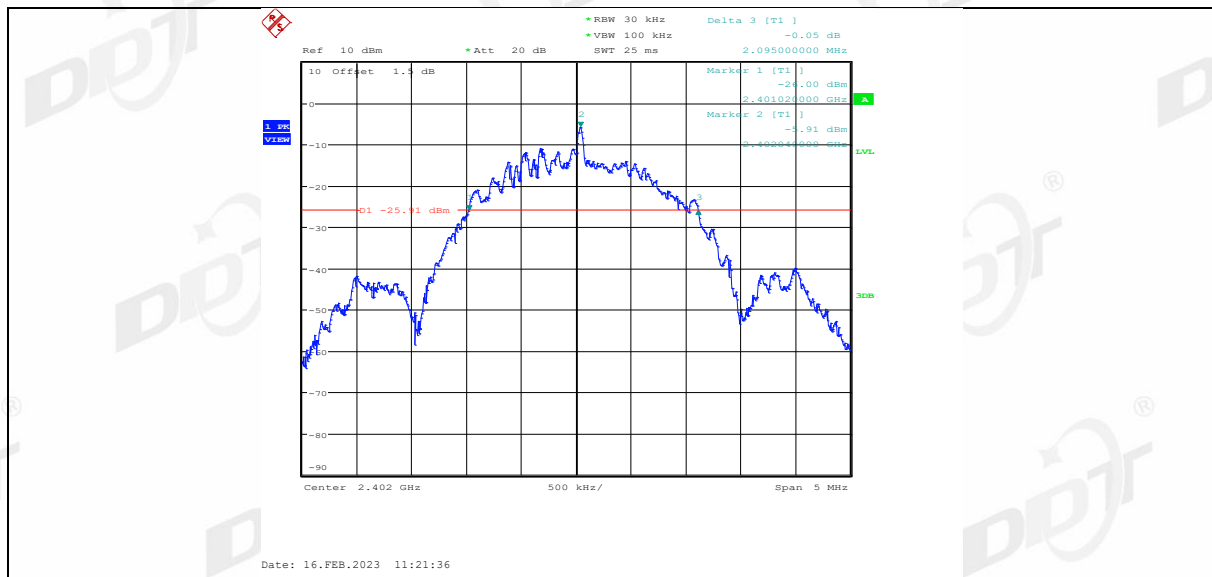


GFSK 2M Ant1 2480

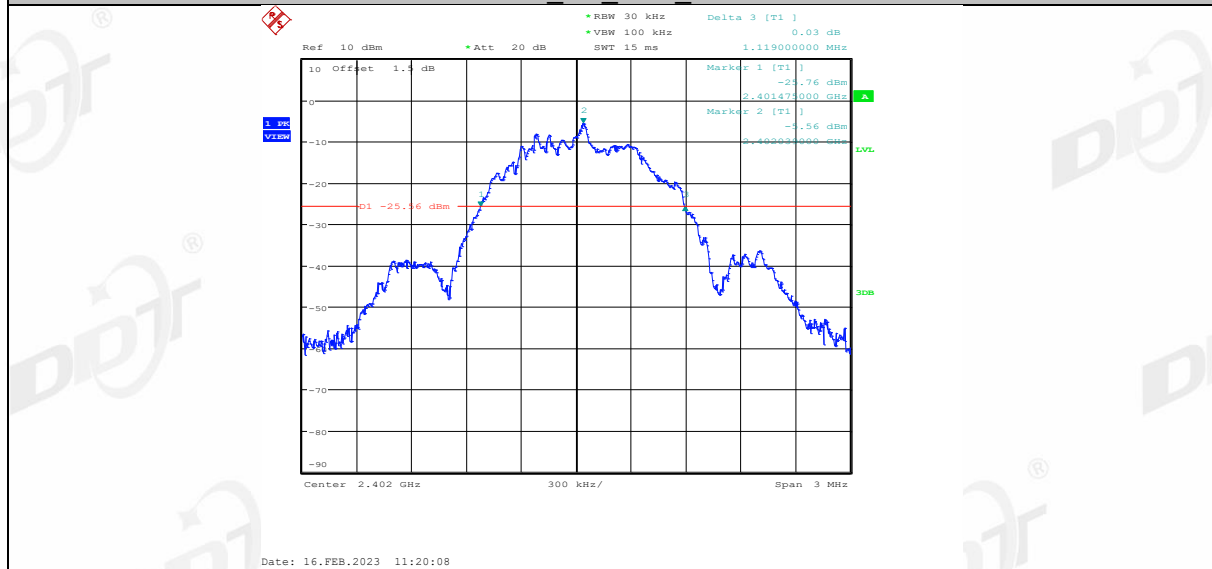


Right-handle:

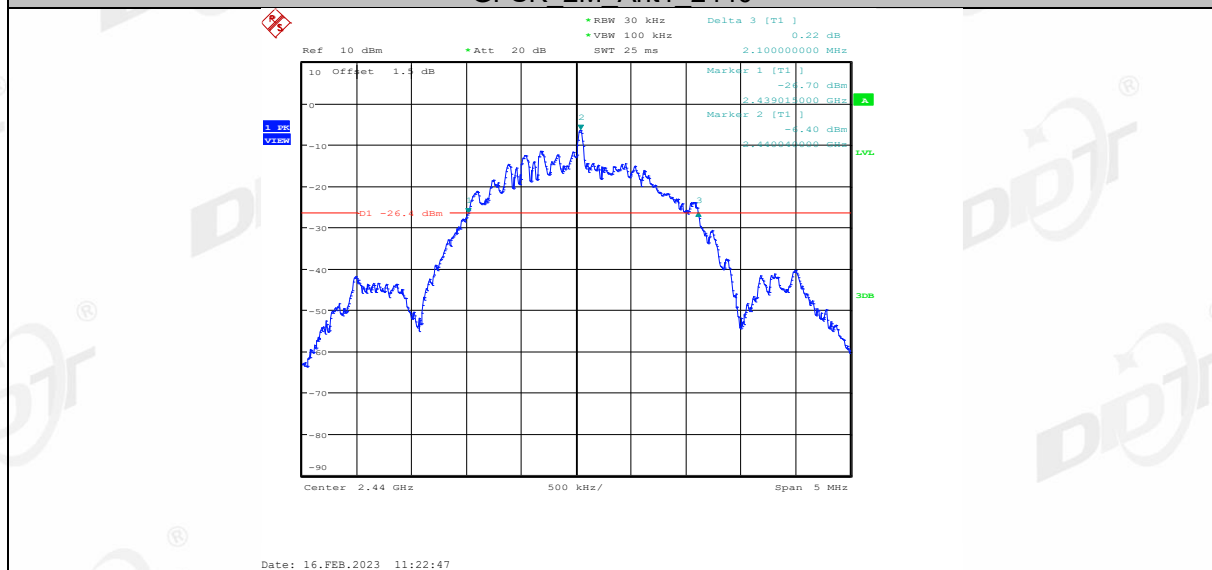




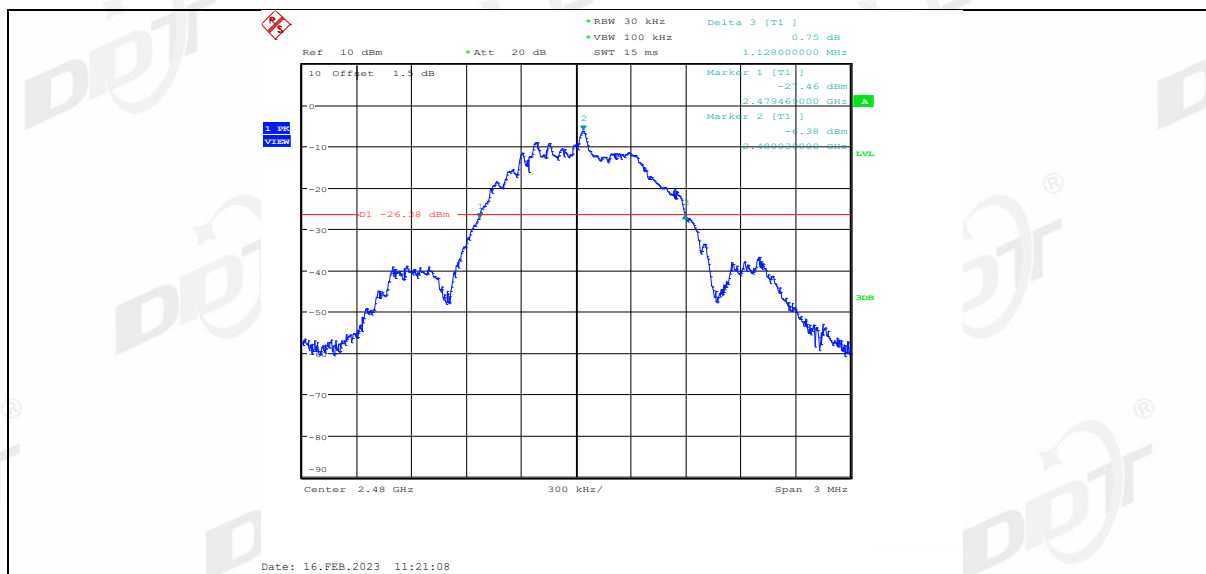
GFSK 1M Ant1 2440



GFSK 2M Ant1 2440



GFSK 1M Ant1 2480



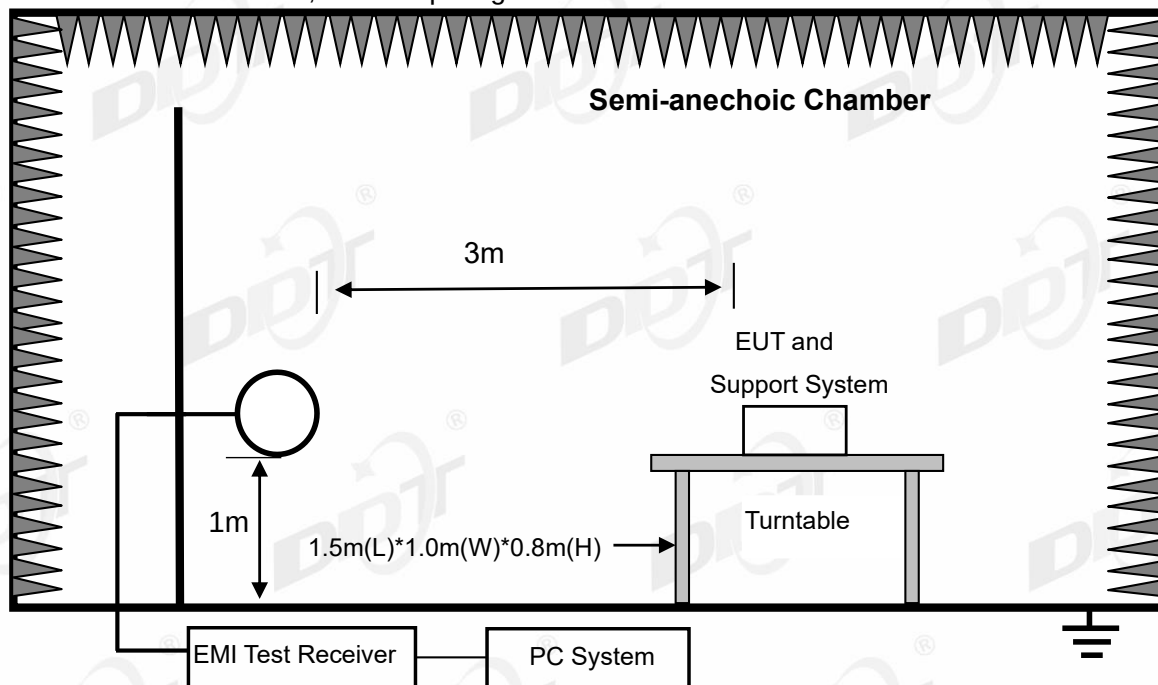
GFSK 2M Ant1 2480



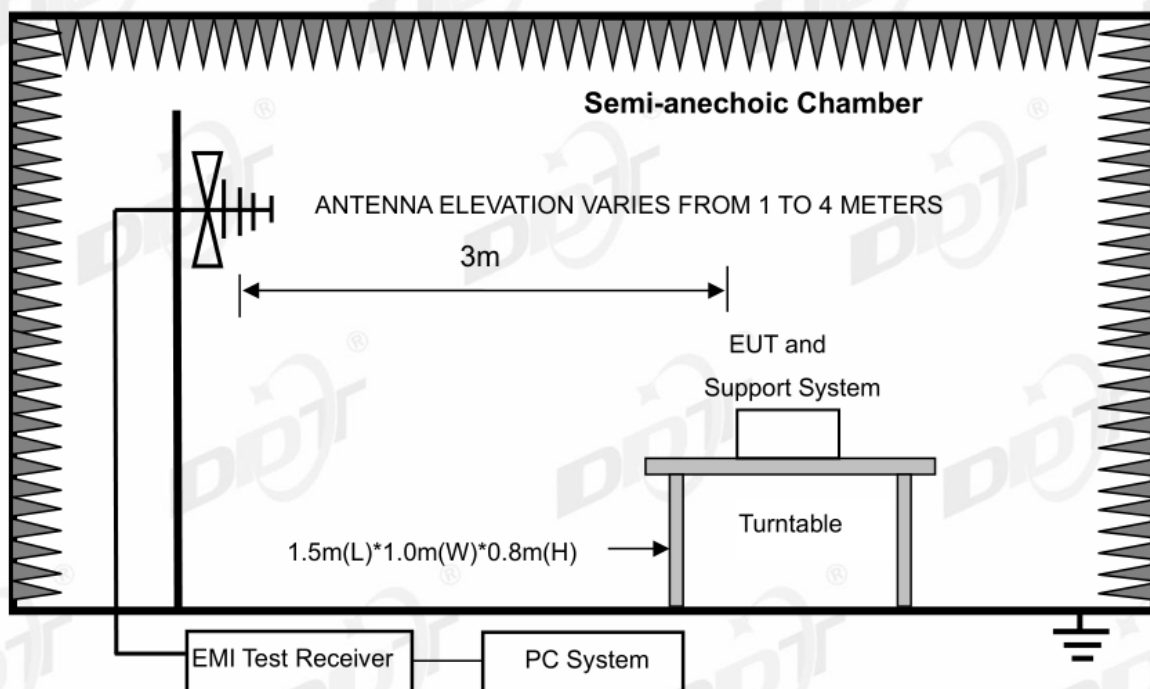
5. Radiated Emission

5.1. Block diagram of test setup

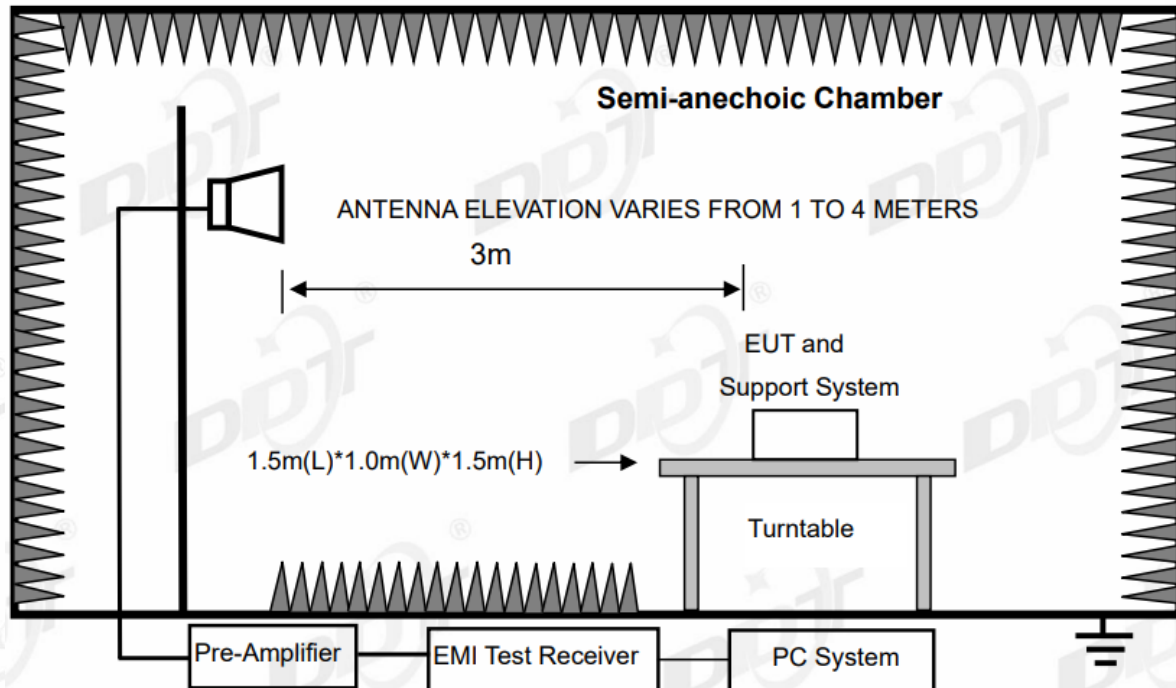
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

5.2. Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000 MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	
Field Strength of Fundamental emission for 2400 MHz – 2483.5 MHz	3	94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) 114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak)	
Field Strength of Harmonics	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark:

- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
- (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz, radiated emission limits in these three bands are based on measurements employing an average detector.

5.3. Test procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1 G and 150 cm above the ground plane inside a semi-anechoic chamber for above 1 G.
- (2) Setup EUT and assistant system according clause 2.4.
- (3) Test antenna was located 3 m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Change power supply range from 85% to 115% of the rated supply voltage
 - (d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so below final test was performed with frequency range from 30 MHz to 18 GHz.
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.
- (6) For emissions from 30 MHz to 1 GHz, Quasi-Peak values were measured with EMI Receiver and the bandwidth of Receiver is 120 kHz.
- (7) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; according ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.
- (8) For fundamental frequency test, set spectrum analyzer's RBW = 3 MHz, VBW = 10 MHz. Peak detector for PK, according ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

5.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in GFSK_2M, Tx 2402 MHz (Left-handle) and GFSK_1M, Tx 2480 MHz (Right-handle) mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Field Strength of the Fundamental Signal

Left-handle:

Mode	Frequency (MHz)	PK Level (dBuV/m)	AV Limit Line (dBuV/m)	Over Limit (dB)	Polarization
GFSK_1M	2402	78.81	94.00	-15.19	Horizontal
	2402	74.49	94.00	-19.51	Vertical
	2440	76.67	94.00	-17.33	Horizontal
	2440	75.08	94.00	-18.92	Vertical
	2480	77.83	94.00	-16.17	Horizontal
	2480	74.85	94.00	-19.15	Vertical
GFSK_2M	2402	78.94	94.00	-15.06	Horizontal
	2402	74.59	94.00	-19.41	Vertical
	2440	76.60	94.00	-17.40	Horizontal
	2440	75.01	94.00	-18.99	Vertical
	2480	77.98	94.00	-16.02	Horizontal
	2480	74.90	94.00	-19.10	Vertical

Note: If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

Right-handle:

Mode	Frequency (MHz)	PK Level (dBuV/m)	AV Limit Line (dBuV/m)	Over Limit (dB)	Polarization
GFSK_1M	2402	89.02	94.00	-4.98	Horizontal
	2402	86.30	94.00	-7.70	Vertical
	2440	89.86	94.00	-4.14	Horizontal
	2440	86.73	94.00	-7.27	Vertical
	2480	90.13	94.00	-3.87	Horizontal
	2480	89.11	94.00	-4.89	Vertical
GFSK_2M	2402	89.02	94.00	-4.98	Horizontal
	2402	86.24	94.00	-7.76	Vertical
	2440	89.85	94.00	-4.15	Horizontal
	2440	86.76	94.00	-7.24	Vertical
	2480	90.13	94.00	-3.87	Horizontal
	2480	89.06	94.00	-4.94	Vertical

Note: If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-14

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

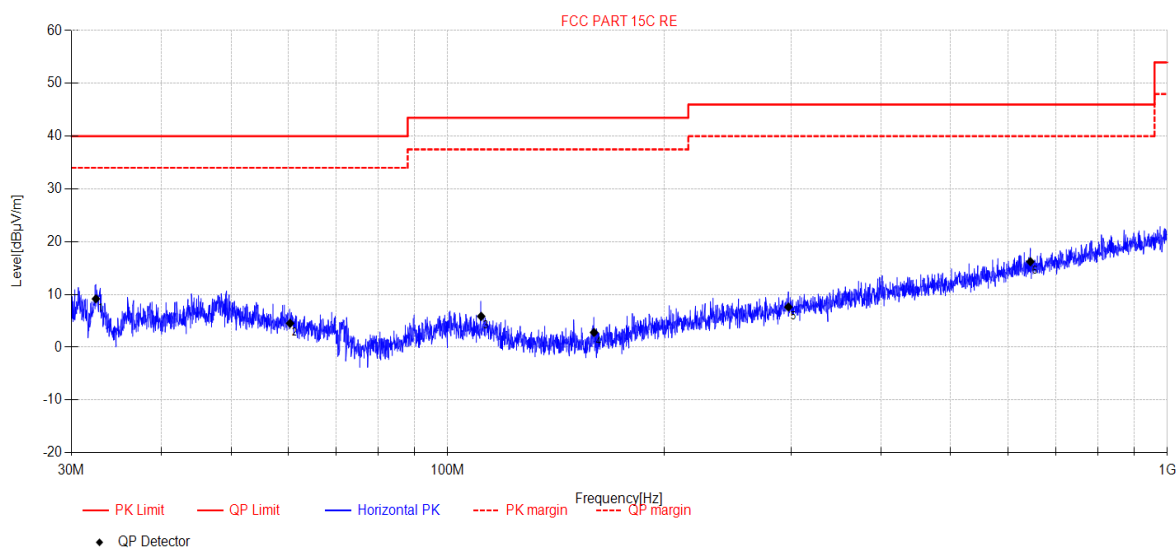
Power Supply: Battery

Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC BELOW 1G\20230214-093705_H

Memo: Left-handle

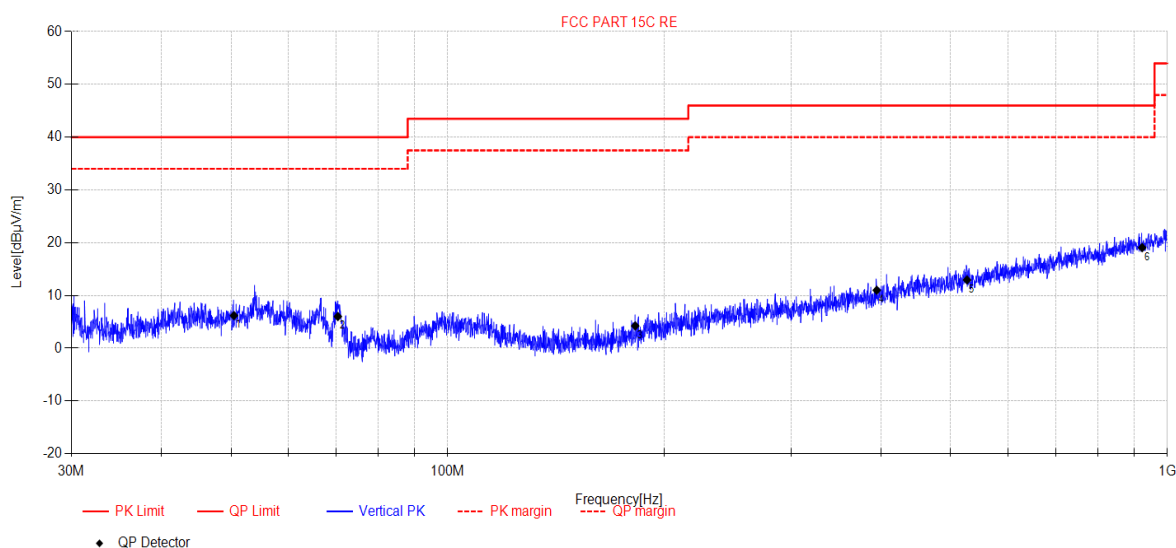


Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.45	30.43	10.40	0.63	-32.29	9.17	40.00	30.83	QP	Horizontal
2	60.40	24.09	11.78	0.93	-32.27	4.53	40.00	35.47	QP	Horizontal
3	111.32	26.34	10.27	1.47	-32.23	5.85	43.50	37.65	QP	Horizontal
4	159.73	25.27	7.97	1.76	-32.20	2.80	43.50	40.70	QP	Horizontal
5	297.50	24.3	13.20	2.43	-32.31	7.62	46.00	38.38	QP	Horizontal
6	645.18	26.12	19.20	3.68	-32.78	16.22	46.00	29.78	QP	Horizontal

Note:

1. Result = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

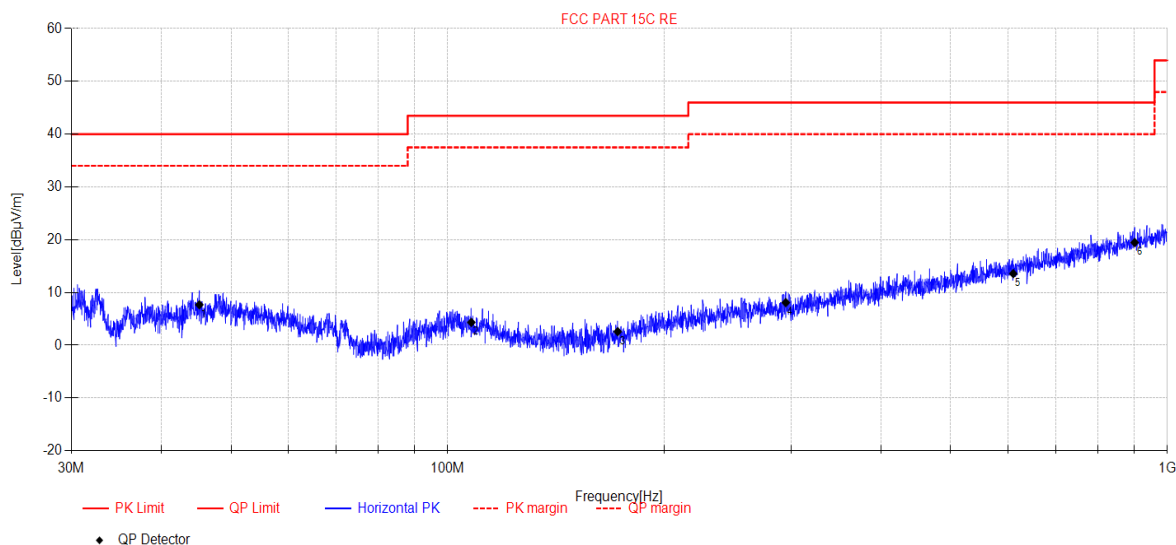
Test Date: 2023-02-14**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC BELOW 1G\20230214-093717_V**Memo:** Left-handle

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	50.47	24.55	13.10	0.82	-32.28	6.19	40.00	33.81	QP	Vertical
2	70.37	28.84	8.39	1.05	-32.27	6.01	40.00	33.99	QP	Vertical
3	182.24	25.17	9.42	1.89	-32.24	4.24	43.50	39.26	QP	Vertical
4	394.65	25.23	15.29	2.84	-32.36	11.00	46.00	35.00	QP	Vertical
5	526.83	24.88	17.40	3.25	-32.58	12.95	46.00	33.05	QP	Vertical
6	922.53	24.05	22.50	4.49	-31.97	19.07	46.00	26.93	QP	Vertical

Note:

- Result = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

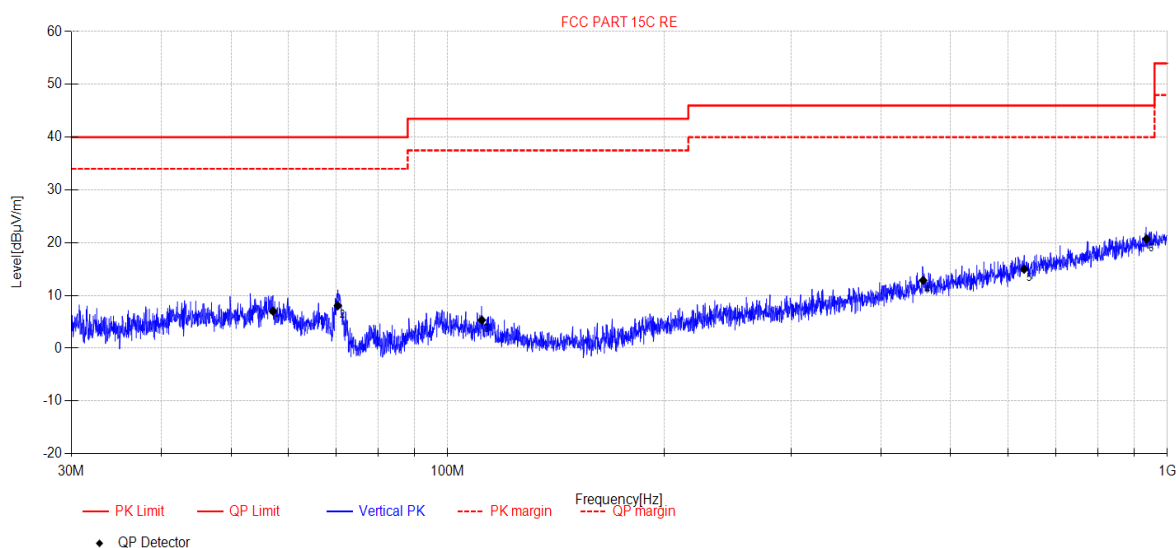
Test Date: 2023-02-14**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC BELOW 1G\20230214-093826_H**Memo:** Right-handle

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	45.18	26.18	13.02	0.76	-32.28	7.68	40.00	32.32	QP	Horizontal
2	107.86	24.41	10.71	1.45	-32.23	4.34	43.50	39.16	QP	Horizontal
3	172.30	24.27	8.70	1.83	-32.22	2.58	43.50	40.92	QP	Horizontal
4	295.01	24.88	13.10	2.42	-32.31	8.09	46.00	37.91	QP	Horizontal
5	610.84	23.92	18.82	3.57	-32.74	13.57	46.00	32.43	QP	Horizontal
6	900.80	24.85	22.40	4.43	-32.22	19.46	46.00	26.54	QP	Horizontal

Note:

- Result = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-14**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC BELOW 1G\20230214-093837_V**Memo:** Right-handle

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	57.18	26.04	12.36	0.89	-32.27	7.02	40.00	32.98	QP	Vertical
2	70.37	30.9	8.39	1.05	-32.27	8.07	40.00	31.93	QP	Vertical
3	111.55	25.86	10.24	1.47	-32.23	5.34	43.50	38.16	QP	Vertical
4	457.90	26.05	16.26	3.02	-32.46	12.87	46.00	33.13	QP	Vertical
5	632.63	25.08	19.05	3.64	-32.77	15.00	46.00	31.00	QP	Vertical
6	935.56	25.41	22.60	4.52	-31.81	20.72	46.00	25.28	QP	Vertical

Note:

1. Result = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

Power Supply: Battery

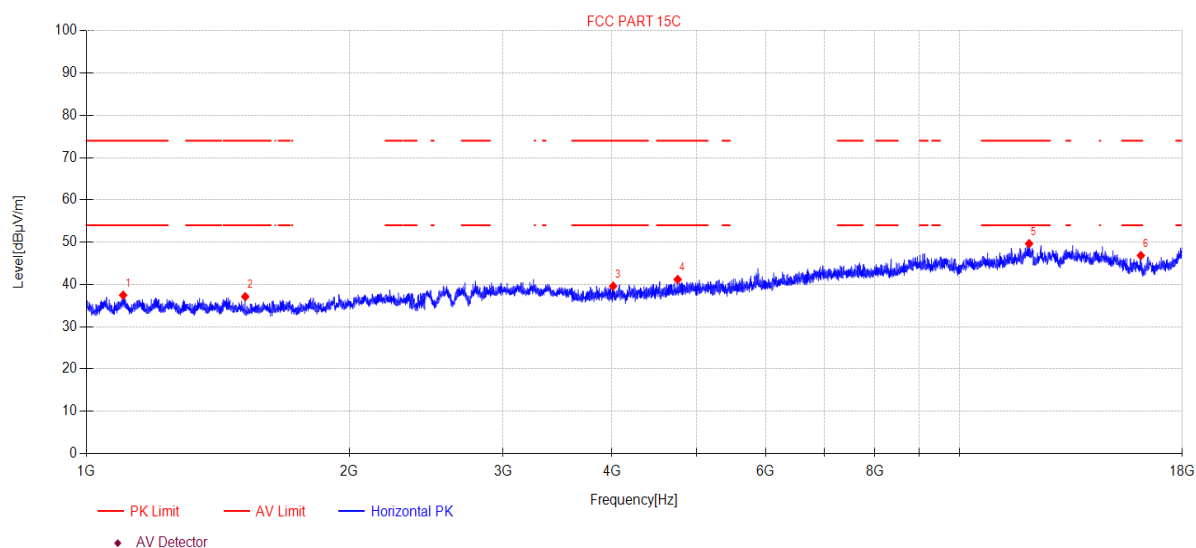
Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK1

Memo: GFSK 1M 2402 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1101.98	48.63	1.69	25.50	-38.35	37.47	74.00	36.53	PK	Horizontal
2	1520.53	48.43	2.20	25.46	-38.98	37.11	74.00	36.89	PK	Horizontal
3	4011.89	47.10	3.19	30.72	-41.40	39.61	74.00	34.39	PK	Horizontal
4	4756.39	46.95	3.27	32.13	-41.17	41.18	74.00	32.82	PK	Horizontal
5	12017.19	44.86	4.79	38.93	-38.92	49.66	74.00	24.34	PK	Horizontal
6	16137.19	42.68	6.78	37.76	-40.39	46.83	74.00	27.17	PK	Horizontal

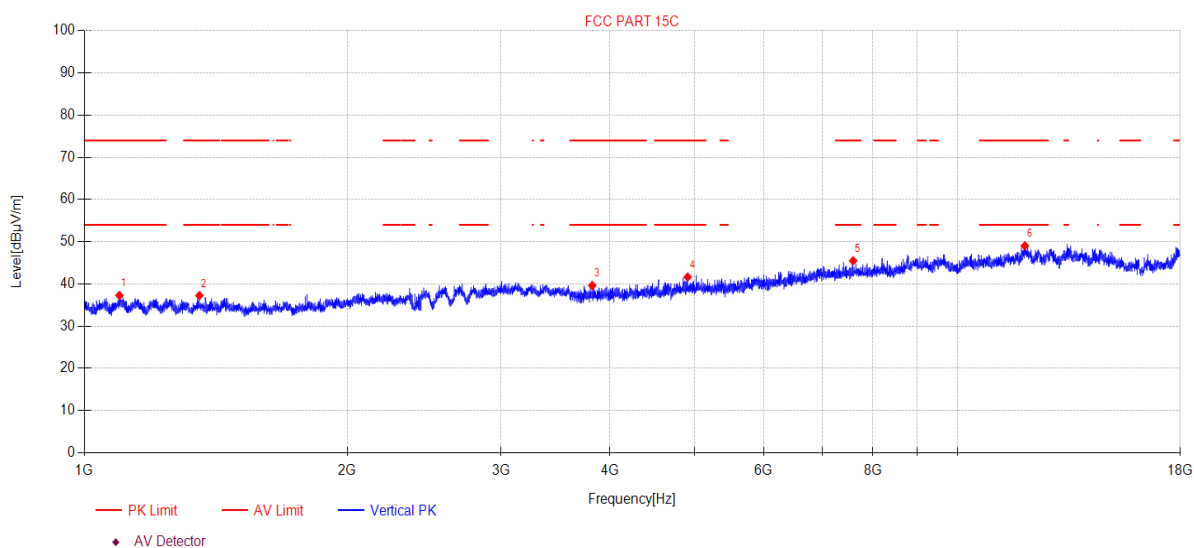
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK12**Memo:** GFSK 1M 2402 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1096.89	48.44	1.69	25.50	-38.35	37.28	74.00	36.72	PK	Vertical
2	1354.54	48.38	2.00	25.60	-38.73	37.25	74.00	36.75	PK	Vertical
3	3817.34	47.32	3.28	30.33	-41.29	39.64	74.00	34.36	PK	Vertical
4	4908.61	46.84	3.29	32.63	-41.13	41.63	74.00	32.37	PK	Vertical
5	7594.26	46.31	3.78	36.40	-41.00	45.49	74.00	28.51	PK	Vertical
6	11944.48	44.41	4.78	38.84	-38.99	49.04	74.00	24.96	PK	Vertical

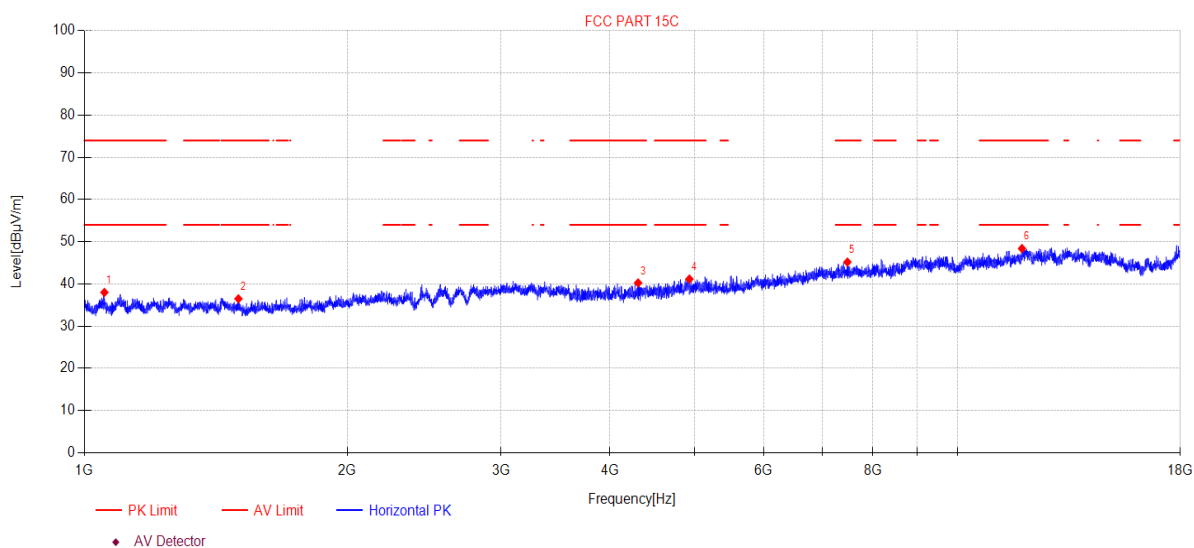
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10 **Tested By:** Liaowanrong
EUT: K106 **Model Number:** K106
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.3°C;Humi:60.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK3
Memo: GFSK 1M 2440 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1054.31	49.13	1.64	25.50	-38.28	37.99	74.00	36.01	PK	Horizontal
2	1501.32	47.76	2.18	25.50	-38.95	36.49	74.00	37.51	PK	Horizontal
3	4307.50	47.02	3.22	31.32	-41.31	40.25	74.00	33.75	PK	Horizontal
4	4931.36	46.25	3.29	32.73	-41.12	41.15	74.00	32.85	PK	Horizontal
5	7480.99	45.99	3.75	36.44	-41.00	45.18	74.00	28.82	PK	Horizontal
6	11855.06	43.96	4.76	38.80	-39.13	48.39	74.00	25.61	PK	Horizontal

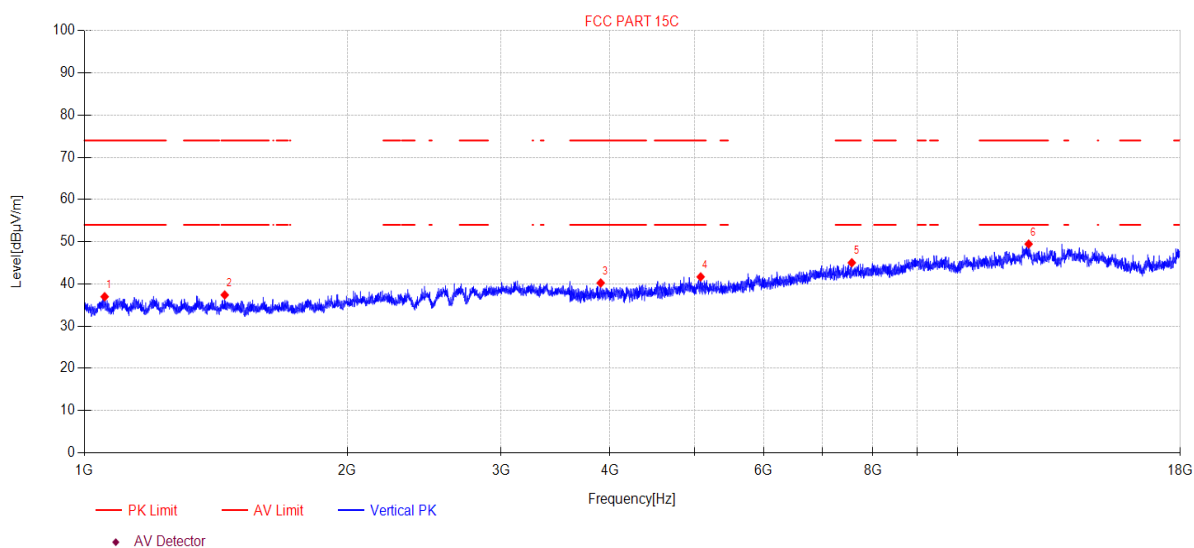
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK14**Memo:** GFSK 1M 2440 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1054.92	48.12	1.64	25.50	-38.28	36.98	74.00	37.02	PK	Vertical
2	1448.05	48.55	2.11	25.60	-38.87	37.39	74.00	36.61	PK	Vertical
3	3903.24	47.82	3.24	30.51	-41.34	40.23	74.00	33.77	PK	Vertical
4	5080.36	46.54	3.31	32.90	-41.07	41.68	74.00	32.32	PK	Vertical
5	7567.97	45.85	3.77	36.40	-41.00	45.02	74.00	28.98	PK	Vertical
6	12065.91	44.58	4.81	39.03	-38.97	49.45	74.00	24.55	PK	Vertical

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

Power Supply: Battery

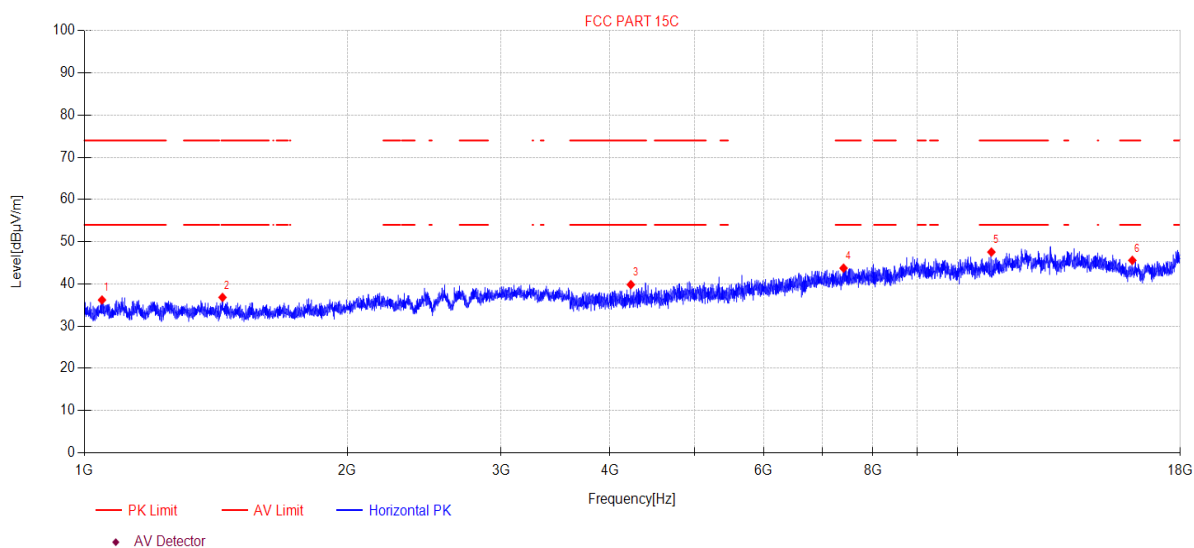
Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK5

Memo: GFSK 1M 2480 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1047.63	47.34	1.63	25.50	-38.27	36.20	74.00	37.80	PK	Horizontal
2	1439.71	47.97	2.10	25.60	-38.86	36.81	74.00	37.19	PK	Horizontal
3	4226.12	46.81	3.21	31.15	-41.33	39.84	74.00	34.16	PK	Horizontal
4	7405.70	44.51	3.73	36.50	-41.00	43.74	74.00	30.26	PK	Horizontal
5	10936.67	44.38	4.58	39.10	-40.51	47.55	74.00	26.45	PK	Horizontal
6	15859.78	41.15	6.59	38.14	-40.30	45.58	74.00	28.42	PK	Horizontal

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

Power Supply: Battery

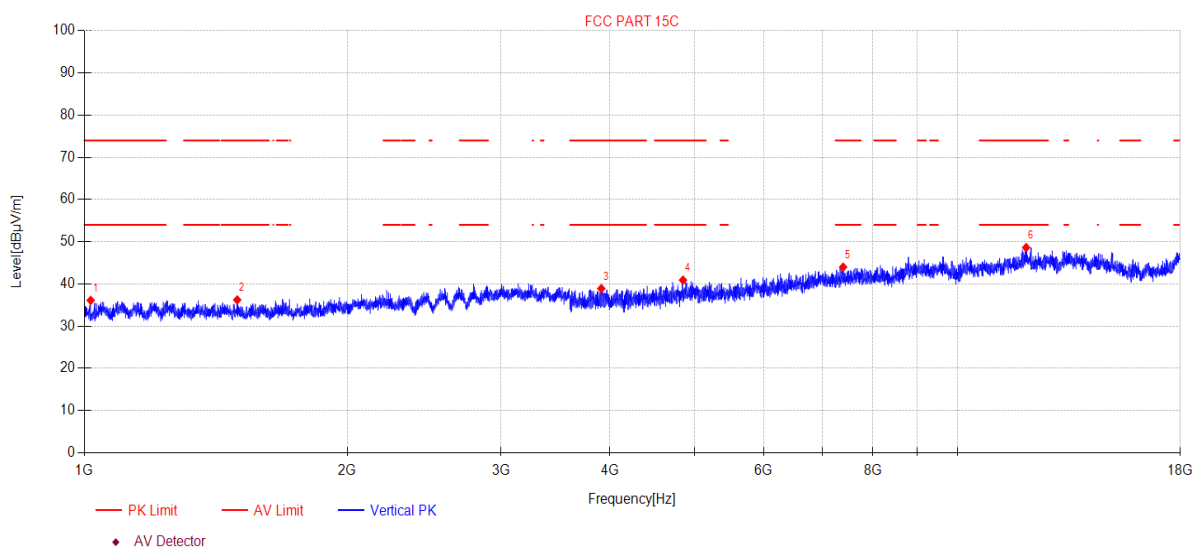
Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\6

Memo: GFSK 1M 2480 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1016.90	47.32	1.59	25.43	-38.23	36.11	74.00	37.89	PK	Vertical
2	1496.56	47.49	2.17	25.51	-38.94	36.23	74.00	37.77	PK	Vertical
3	3908.88	46.50	3.23	30.52	-41.35	38.90	74.00	35.10	PK	Vertical
4	4849.39	46.28	3.28	32.50	-41.15	40.91	74.00	33.09	PK	Vertical
5	7397.14	44.76	3.73	36.50	-41.00	43.99	74.00	30.01	PK	Vertical
6	11985.97	43.86	4.79	38.89	-38.92	48.62	74.00	25.38	PK	Vertical

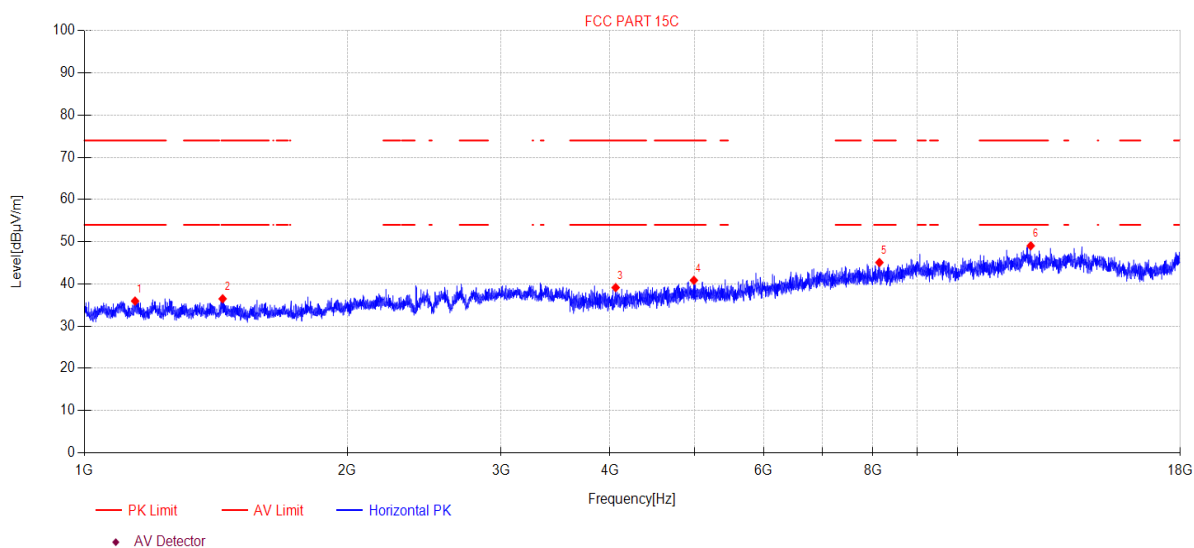
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK7**Memo:** GFSK 2M 2402 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1143.18	47.03	1.74	25.59	-38.41	35.95	74.00	38.05	PK	Horizontal
2	1440.12	47.64	2.10	25.60	-38.86	36.48	74.00	37.52	PK	Horizontal
3	4059.71	46.50	3.20	30.82	-41.38	39.14	74.00	34.86	PK	Horizontal
4	4990.14	45.85	3.30	32.80	-41.10	40.85	74.00	33.15	PK	Horizontal
5	8139.71	44.97	3.89	37.00	-40.78	45.08	74.00	28.92	PK	Horizontal
6	12132.35	44.13	4.83	39.10	-39.03	49.03	74.00	24.97	PK	Horizontal

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

Power Supply: Battery

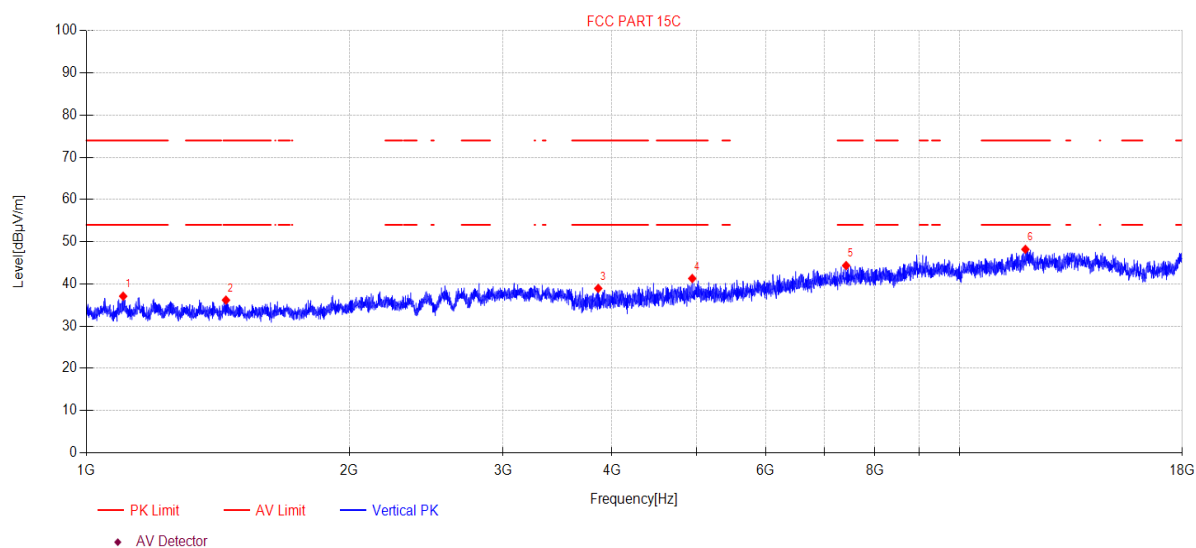
Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK8

Memo: GFSK 2M 2402 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1101.98	48.25	1.69	25.50	-38.35	37.09	74.00	36.91	PK	Vertical
2	1445.13	47.33	2.11	25.60	-38.87	36.17	74.00	37.83	PK	Vertical
3	3857.26	46.58	3.26	30.41	-41.31	38.94	74.00	35.06	PK	Vertical
4	4942.77	46.35	3.29	32.77	-41.12	41.29	74.00	32.71	PK	Vertical
5	7416.40	45.11	3.74	36.50	-41.00	44.35	74.00	29.65	PK	Vertical
6	11899.68	43.68	4.77	38.80	-39.06	48.19	74.00	25.81	PK	Vertical

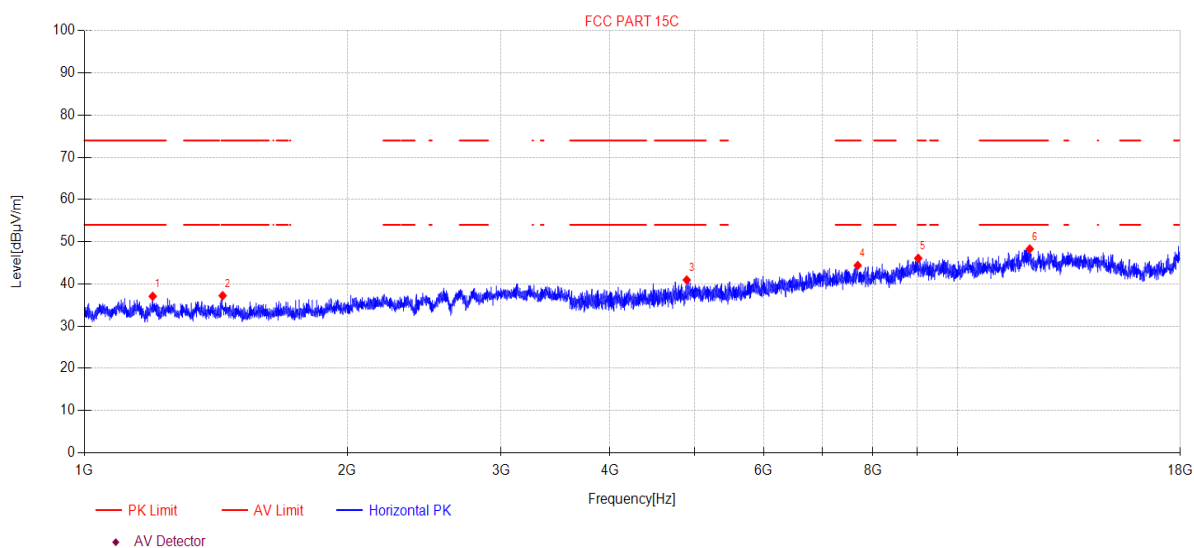
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK9**Memo:** GFSK 2M 2440 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1197.63	48.17	1.81	25.60	-38.50	37.08	74.00	36.92	PK	Horizontal
2	1440.12	48.38	2.10	25.60	-38.86	37.22	74.00	36.78	PK	Horizontal
3	4897.27	46.19	3.29	32.59	-41.13	40.94	74.00	33.06	PK	Horizontal
4	7687.01	45.01	3.80	36.57	-41.00	44.38	74.00	29.62	PK	Horizontal
5	9016.57	43.31	3.99	38.20	-39.42	46.08	74.00	27.92	PK	Horizontal
6	12100.83	43.37	4.82	39.10	-39.00	48.29	74.00	25.71	PK	Horizontal

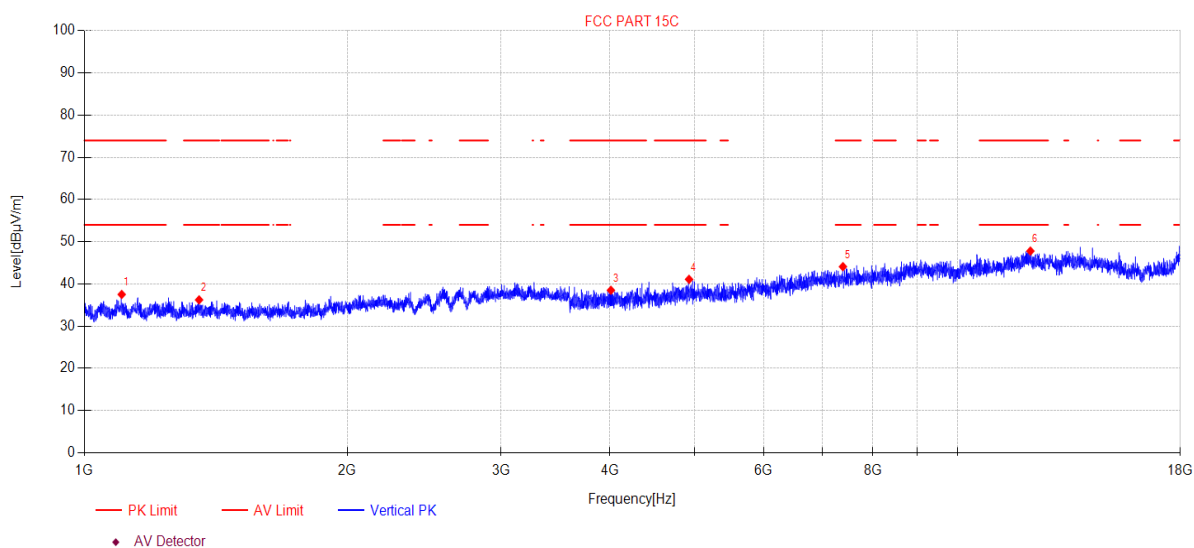
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10 **Tested By:** Liaowanrong
EUT: K106 **Model Number:** K106
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.3°C;Humi:60.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\10
Memo: GFSK 2M 2440 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1103.57	48.66	1.70	25.51	-38.36	37.51	74.00	36.49	PK	Vertical
2	1353.36	47.36	2.00	25.60	-38.73	36.23	74.00	37.77	PK	Vertical
3	4009.57	45.99	3.19	30.72	-41.40	38.50	74.00	35.50	PK	Vertical
4	4927.09	46.21	3.29	32.71	-41.12	41.09	74.00	32.91	PK	Vertical
5	7392.86	44.87	3.73	36.50	-41.00	44.10	74.00	29.90	PK	Vertical
6	12121.84	42.88	4.83	39.10	-39.02	47.79	74.00	26.21	PK	Vertical

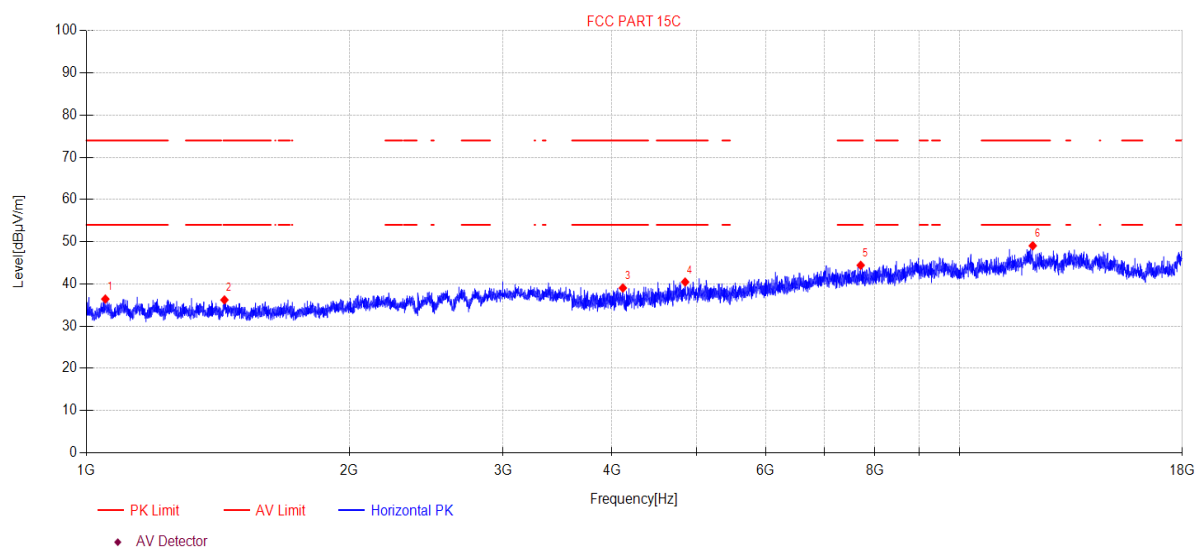
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\11**Memo:** GFSK 2M 2480 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1051.27	47.57	1.63	25.50	-38.28	36.42	74.00	37.58	PK	Horizontal
2	1439.29	47.37	2.10	25.60	-38.86	36.21	74.00	37.79	PK	Horizontal
3	4116.42	46.28	3.20	30.93	-41.37	39.04	74.00	34.96	PK	Horizontal
4	4850.79	45.82	3.28	32.50	-41.14	40.46	74.00	33.54	PK	Horizontal
5	7707.03	45.02	3.80	36.60	-41.00	44.42	74.00	29.58	PK	Horizontal
6	12132.35	44.15	4.83	39.10	-39.03	49.05	74.00	24.95	PK	Horizontal

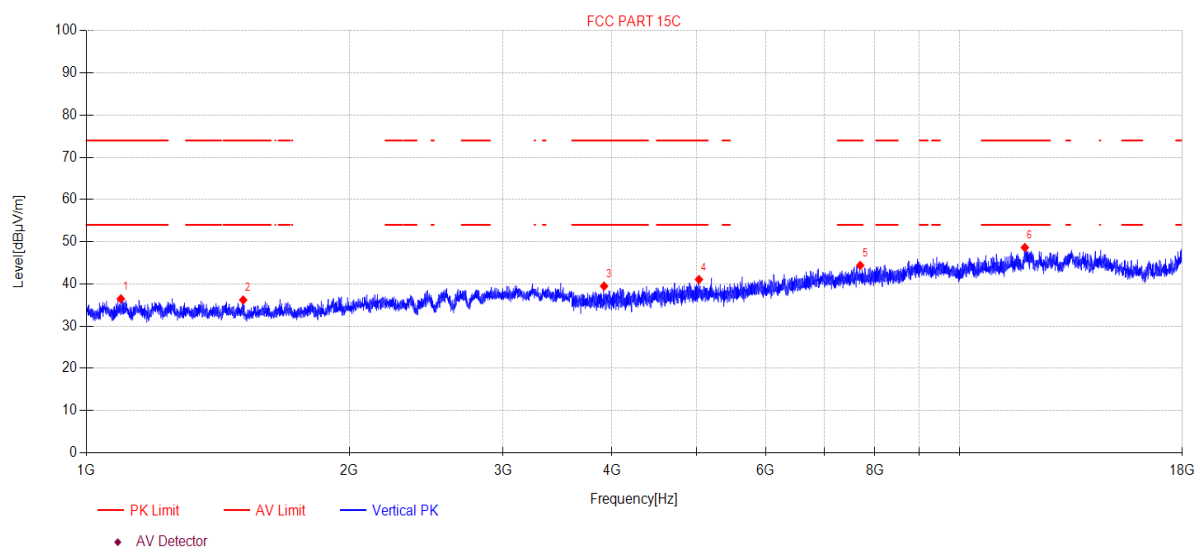
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-10**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK12**Memo:** GFSK 2M 2480 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1095.31	47.63	1.69	25.50	-38.34	36.48	74.00	37.52	PK	Vertical
2	1512.21	47.50	2.19	25.48	-38.97	36.20	74.00	37.80	PK	Vertical
3	3916.80	47.07	3.23	30.53	-41.35	39.48	74.00	34.52	PK	Vertical
4	5030.69	45.98	3.30	32.86	-41.09	41.05	74.00	32.95	PK	Vertical
5	7698.12	44.98	3.80	36.60	-41.00	44.38	74.00	29.62	PK	Vertical
6	11882.50	44.15	4.77	38.80	-39.09	48.63	74.00	25.37	PK	Vertical

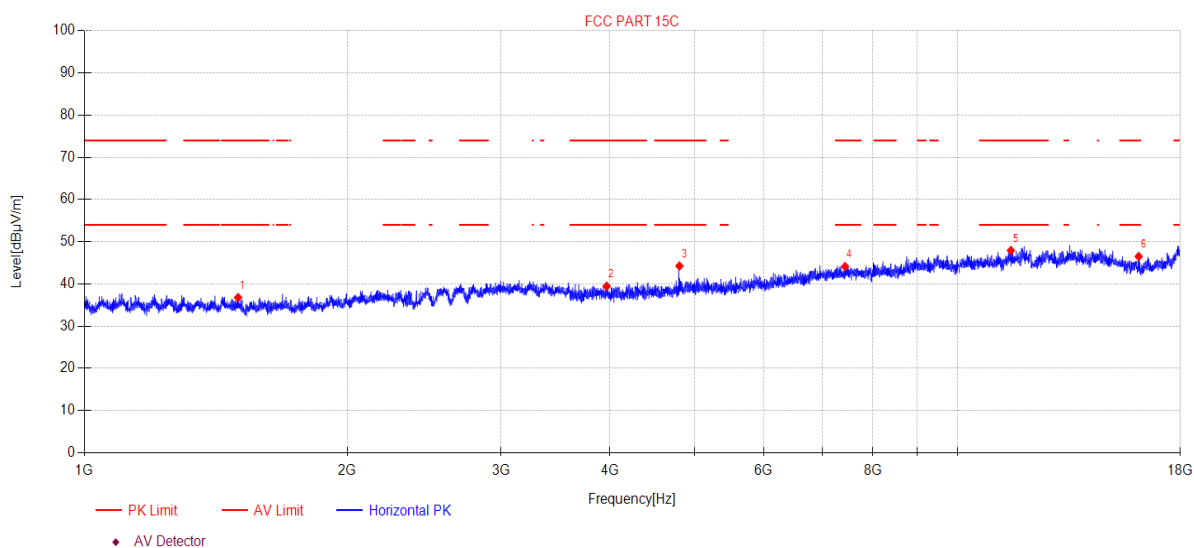
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13 **Tested By:** Liaowanrong
EUT: K106 **Model Number:** K106
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.3°C;Humi:60.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\29
Memo: GFSK 1M 2402 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1500.02	48.05	2.18	25.50	-38.95	36.78	74.00	37.22	PK	Horizontal
2	3964.63	47.00	3.21	30.63	-41.38	39.46	74.00	34.54	PK	Horizontal
3	4803.36	49.82	3.28	32.31	-41.16	44.25	74.00	29.75	PK	Horizontal
4	7433.57	44.88	3.74	36.50	-41.00	44.12	74.00	29.88	PK	Horizontal
5	11514.01	43.92	4.70	38.99	-39.68	47.93	74.00	26.07	PK	Horizontal
6	16127.87	42.36	6.77	37.77	-40.39	46.51	74.00	27.49	PK	Horizontal

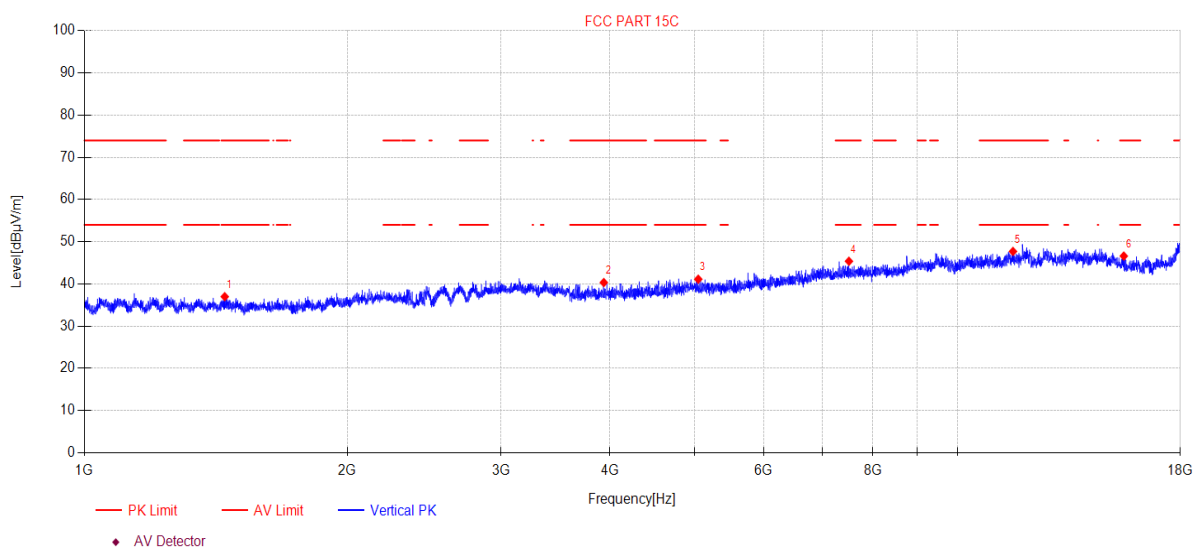
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK30**Memo:** GFSK 1M 2402 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1448.05	48.15	2.11	25.60	-38.87	36.99	74.00	37.01	PK	Vertical
2	3934.95	47.91	3.22	30.57	-41.36	40.34	74.00	33.66	PK	Vertical
3	5048.16	45.99	3.31	32.90	-41.08	41.12	74.00	32.88	PK	Vertical
4	7511.32	46.22	3.76	36.40	-41.00	45.38	74.00	28.62	PK	Vertical
5	11577.41	43.65	4.71	38.92	-39.58	47.70	74.00	26.30	PK	Vertical
6	15506.26	41.73	6.34	38.59	-40.05	46.61	74.00	27.39	PK	Vertical

Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

Power Supply: Battery

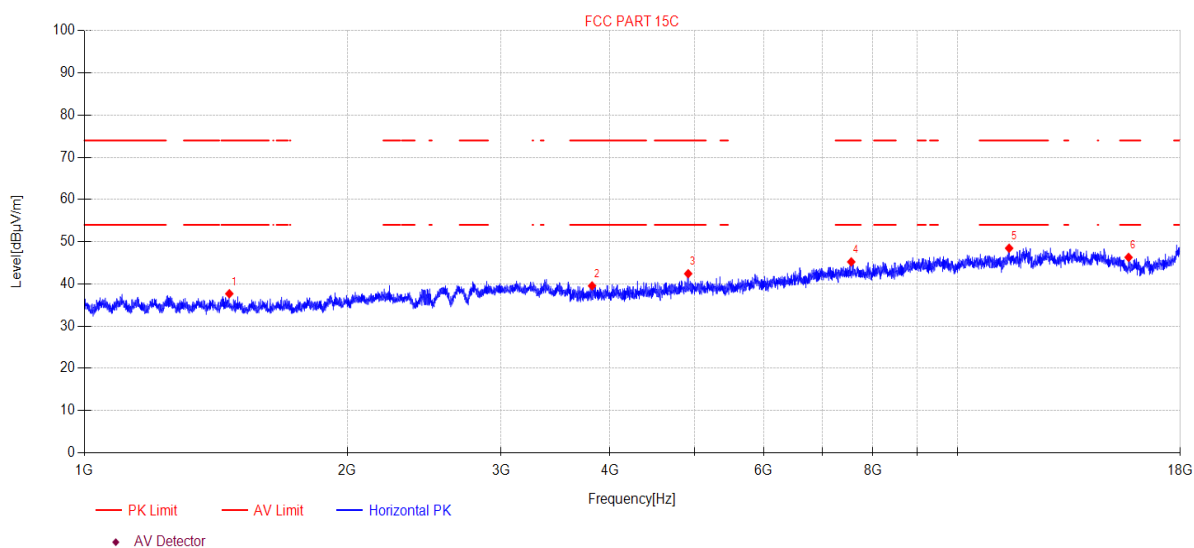
Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK31

Memo: GFSK 1M 2440 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1465.74	48.88	2.13	25.57	-38.90	37.68	74.00	36.32	PK	Horizontal
2	3815.13	47.23	3.28	30.33	-41.29	39.55	74.00	34.45	PK	Horizontal
3	4915.71	47.61	3.29	32.66	-41.13	42.43	74.00	31.57	PK	Horizontal
4	7557.04	46.06	3.77	36.40	-41.00	45.23	74.00	28.77	PK	Horizontal
5	11460.90	44.49	4.69	39.04	-39.76	48.46	74.00	25.54	PK	Horizontal
6	15704.70	41.71	6.48	38.30	-40.19	46.30	74.00	27.70	PK	Horizontal

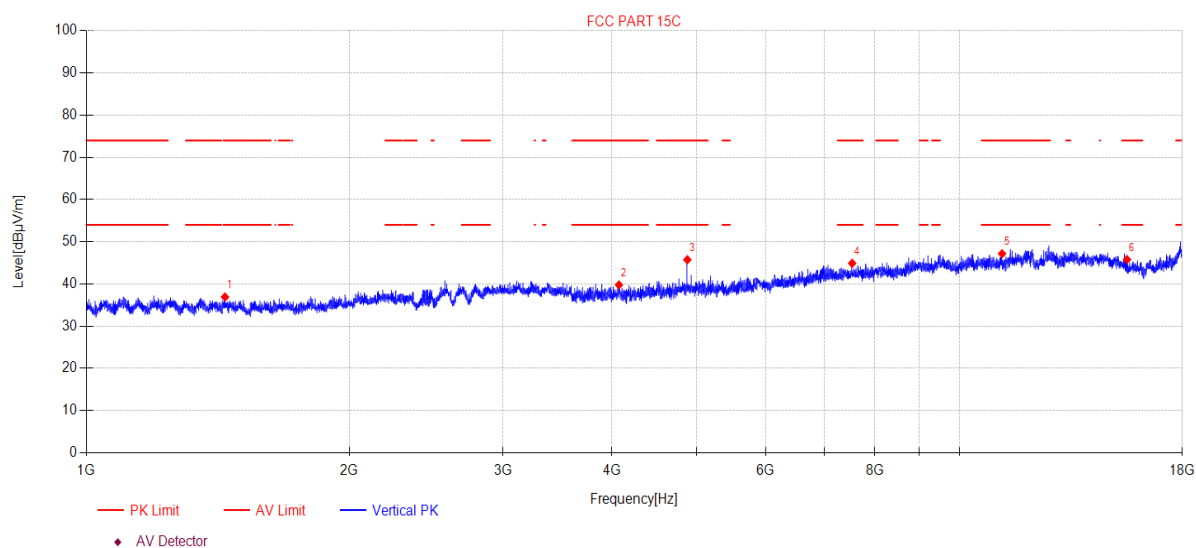
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK32**Memo:** GFSK 1M 2440 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1441.37	48.07	2.10	25.60	-38.86	36.91	74.00	37.09	PK	Vertical
2	4073.82	47.10	3.20	30.85	-41.38	39.77	74.00	34.23	PK	Vertical
3	4878.91	51.02	3.29	32.56	-41.14	45.73	74.00	28.27	PK	Vertical
4	7535.23	45.73	3.76	36.40	-41.00	44.89	74.00	29.11	PK	Vertical
5	11189.25	43.63	4.64	39.10	-40.20	47.17	74.00	26.83	PK	Vertical
6	15555.63	41.01	6.38	38.49	-40.09	45.79	74.00	28.21	PK	Vertical

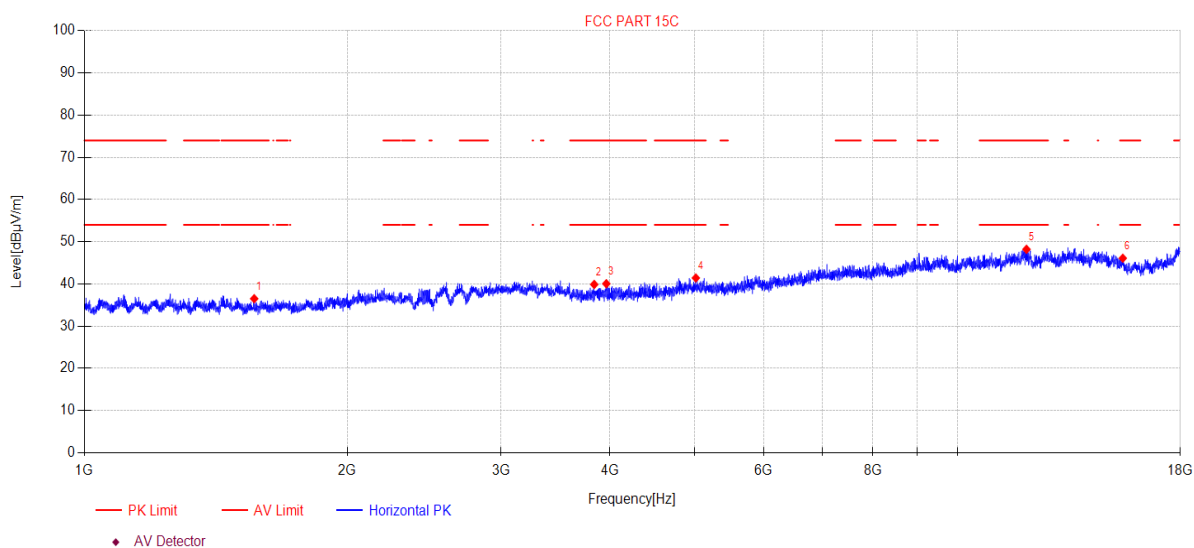
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13 **Tested By:** Liaowanrong
EUT: K106 **Model Number:** K106
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.3°C;Humi:60.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK33
Memo: GFSK 1M 2480 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1565.12	47.90	2.25	25.40	-39.05	36.50	74.00	37.50	PK	Horizontal
2	3837.25	47.54	3.27	30.37	-41.30	39.88	74.00	34.12	PK	Horizontal
3	3961.20	47.60	3.21	30.62	-41.38	40.05	74.00	33.95	PK	Horizontal
4	5016.17	46.38	3.30	32.83	-41.09	41.42	74.00	32.58	PK	Horizontal
5	11996.37	43.42	4.79	38.90	-38.91	48.20	74.00	25.80	PK	Horizontal
6	15465.97	41.18	6.32	38.63	-40.03	46.10	74.00	27.90	PK	Horizontal

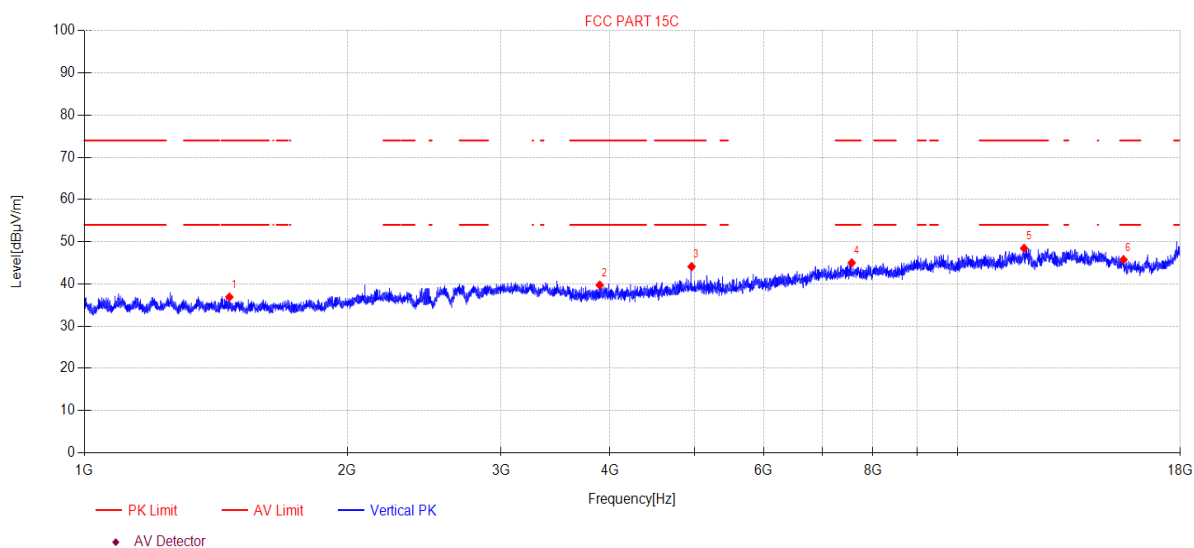
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13 **Tested By:** Liaowanrong
EUT: K106 **Model Number:** K106
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.3°C;Humi:60.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK34
Memo: GFSK 1M 2480 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1466.16	48.09	2.13	25.57	-38.90	36.89	74.00	37.11	PK	Vertical
2	3893.10	47.34	3.24	30.49	-41.34	39.73	74.00	34.27	PK	Vertical
3	4959.95	49.12	3.30	32.80	-41.11	44.11	74.00	29.89	PK	Vertical
4	7565.78	45.83	3.77	36.40	-41.00	45.00	74.00	29.00	PK	Vertical
5	11920.34	43.87	4.78	38.82	-39.03	48.44	74.00	25.56	PK	Vertical
6	15492.82	40.85	6.33	38.61	-40.04	45.75	74.00	28.25	PK	Vertical

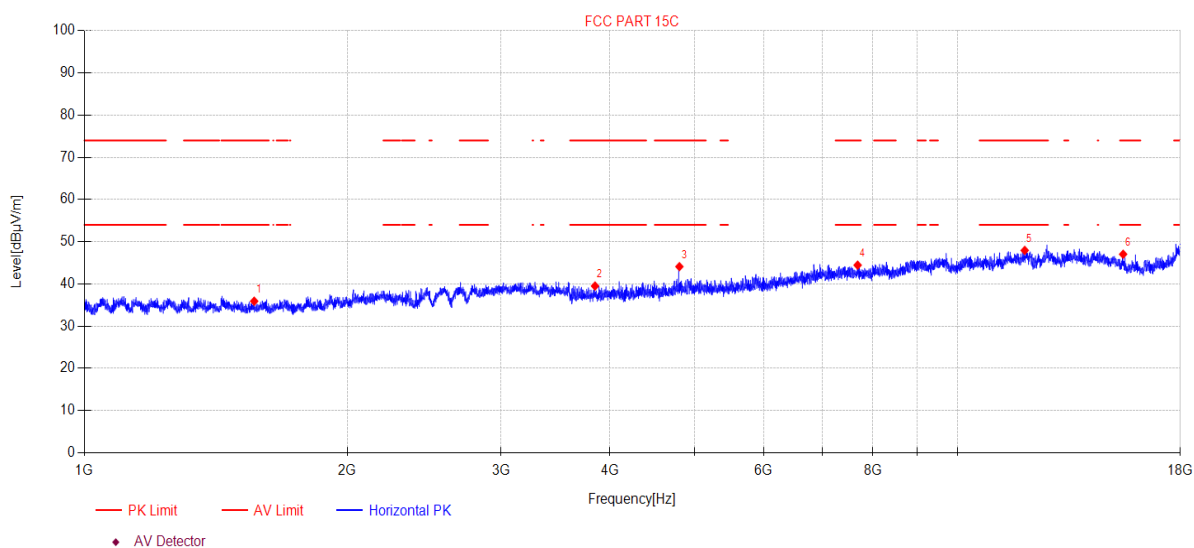
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13 **Tested By:** Liaowanrong
EUT: K106 **Model Number:** K106
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.3°C;Humi:60.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK35
Memo: GFSK 2M 2402 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1565.12	47.31	2.25	25.40	-39.05	35.91	74.00	38.09	PK	Horizontal
2	3845.02	47.16	3.27	30.39	-41.31	39.51	74.00	34.49	PK	Horizontal
3	4803.36	49.67	3.28	32.31	-41.16	44.10	74.00	29.90	PK	Horizontal
4	7684.78	45.08	3.80	36.57	-41.00	44.45	74.00	29.55	PK	Horizontal
5	11941.03	43.32	4.78	38.84	-38.99	47.95	74.00	26.05	PK	Horizontal
6	15479.39	42.13	6.33	38.62	-40.04	47.04	74.00	26.96	PK	Horizontal

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

Power Supply: Battery

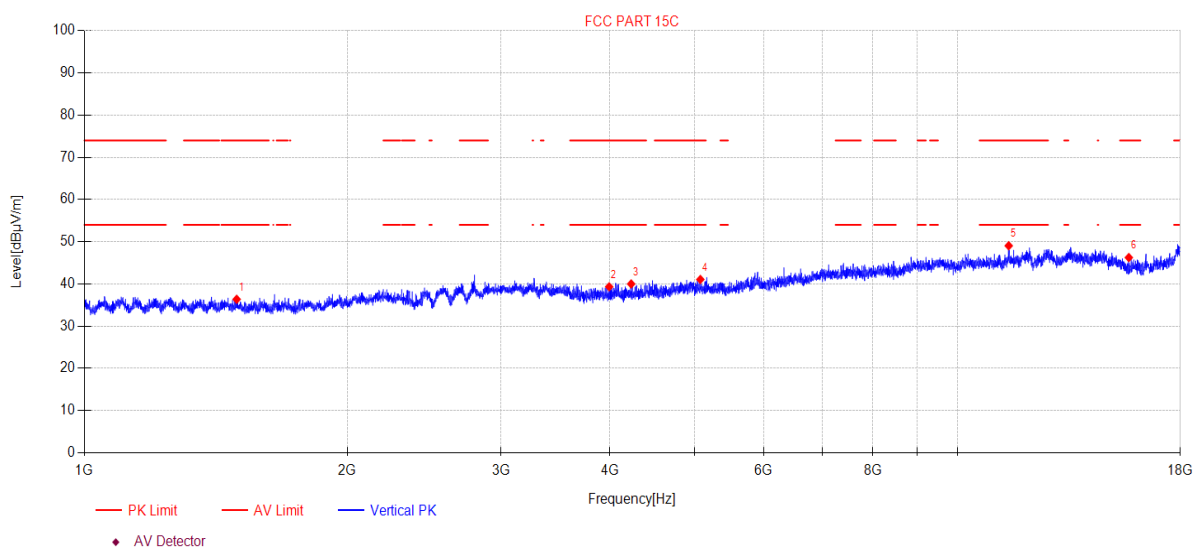
Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK36

Memo: GFSK 2M 2402 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1494.40	47.62	2.17	25.51	-38.94	36.36	74.00	37.64	PK	Vertical
2	3991.08	46.85	3.19	30.68	-41.39	39.33	74.00	34.67	PK	Vertical
3	4229.79	46.95	3.22	31.16	-41.33	40.00	74.00	34.00	PK	Vertical
4	5075.96	45.92	3.31	32.90	-41.07	41.06	74.00	32.94	PK	Vertical
5	11447.65	45.09	4.69	39.05	-39.78	49.05	74.00	24.95	PK	Vertical
6	15713.78	41.68	6.49	38.29	-40.20	46.26	74.00	27.74	PK	Vertical

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

Power Supply: Battery

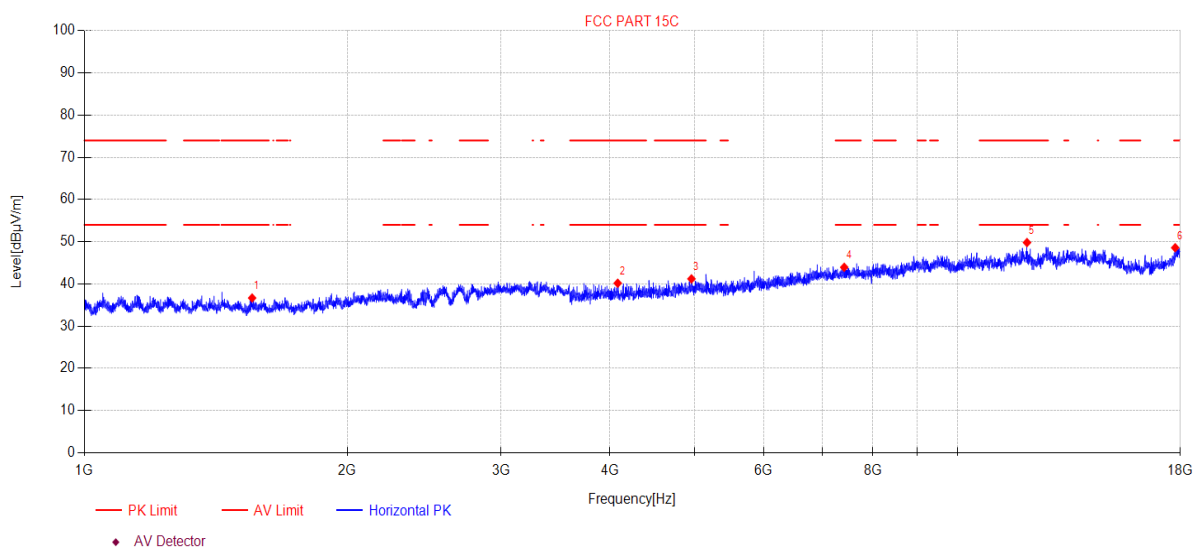
Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK37

Memo: GFSK 2M 2440 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1556.55	48.07	2.24	25.40	-39.03	36.68	74.00	37.32	PK	Horizontal
2	4082.07	47.49	3.20	30.86	-41.38	40.17	74.00	33.83	PK	Horizontal
3	4958.51	46.21	3.30	32.80	-41.11	41.20	74.00	32.80	PK	Horizontal
4	7418.55	44.71	3.74	36.50	-41.00	43.95	74.00	30.05	PK	Horizontal
5	12013.72	45.00	4.79	38.93	-38.91	49.81	74.00	24.19	PK	Horizontal
6	17757.15	40.64	8.35	40.20	-40.60	48.59	74.00	25.41	PK	Horizontal

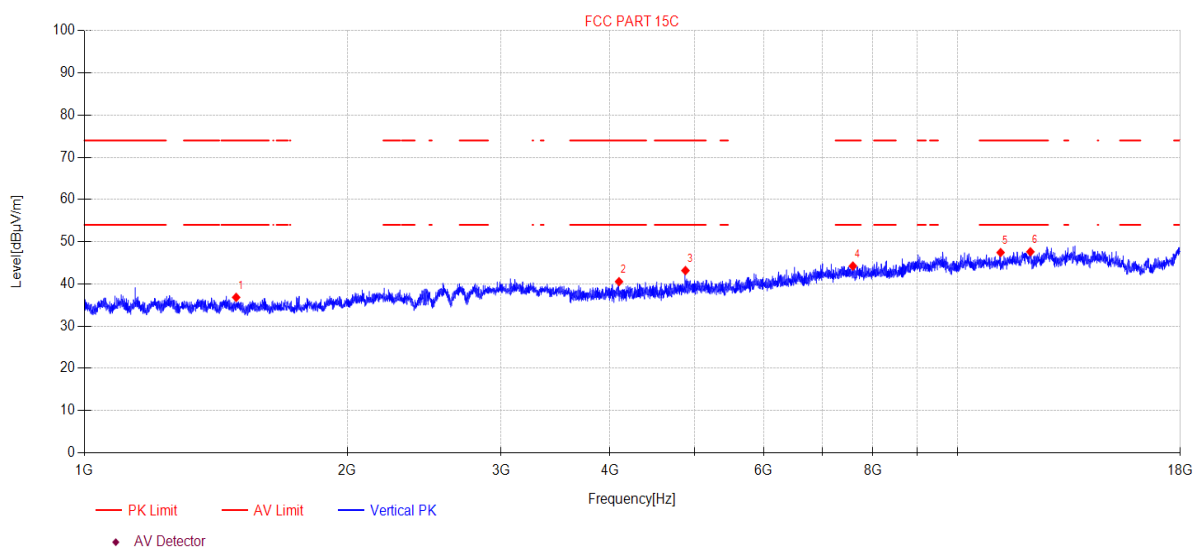
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13 **Tested By:** Liaowanrong
EUT: K106 **Model Number:** K106
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.3°C;Humi:60.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK38
Memo: GFSK 2M 2440 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1492.24	48.07	2.17	25.52	-38.94	36.82	74.00	37.18	PK	Vertical
2	4096.25	47.82	3.20	30.89	-41.37	40.54	74.00	33.46	PK	Vertical
3	4880.32	48.46	3.29	32.56	-41.14	43.17	74.00	30.83	PK	Vertical
4	7589.87	45.06	3.78	36.40	-41.00	44.24	74.00	29.76	PK	Vertical
5	11205.43	43.86	4.65	39.10	-40.17	47.44	74.00	26.56	PK	Vertical
6	12121.84	42.71	4.83	39.10	-39.02	47.62	74.00	26.38	PK	Vertical

Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

Power Supply: Battery

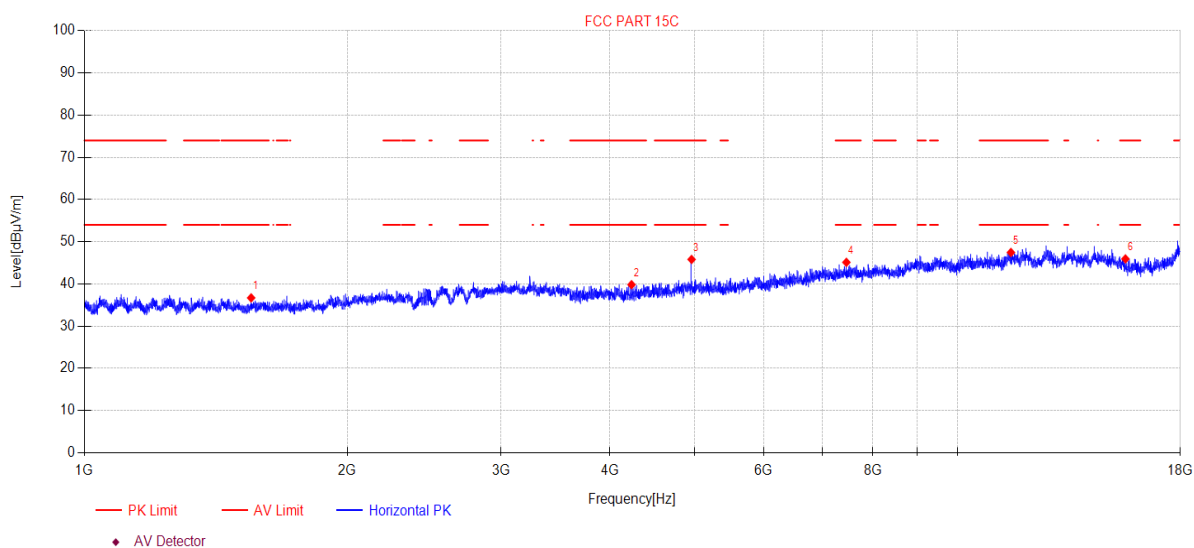
Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK39

Memo: GFSK 2M 2480 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1552.51	48.09	2.24	25.40	-39.03	36.70	74.00	37.30	PK	Horizontal
2	4233.45	46.77	3.22	31.17	-41.33	39.83	74.00	34.17	PK	Horizontal
3	4959.95	50.82	3.30	32.80	-41.11	45.81	74.00	28.19	PK	Horizontal
4	7461.55	45.89	3.75	36.48	-41.00	45.12	74.00	28.88	PK	Horizontal
5	11514.01	43.45	4.70	38.99	-39.68	47.46	74.00	26.54	PK	Horizontal
6	15573.62	41.20	6.39	38.45	-40.10	45.94	74.00	28.06	PK	Horizontal

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13

Tested By: Liaowanrong

EUT: K106

Model Number: K106

Test Mode: TX Mode

Power Supply: Battery

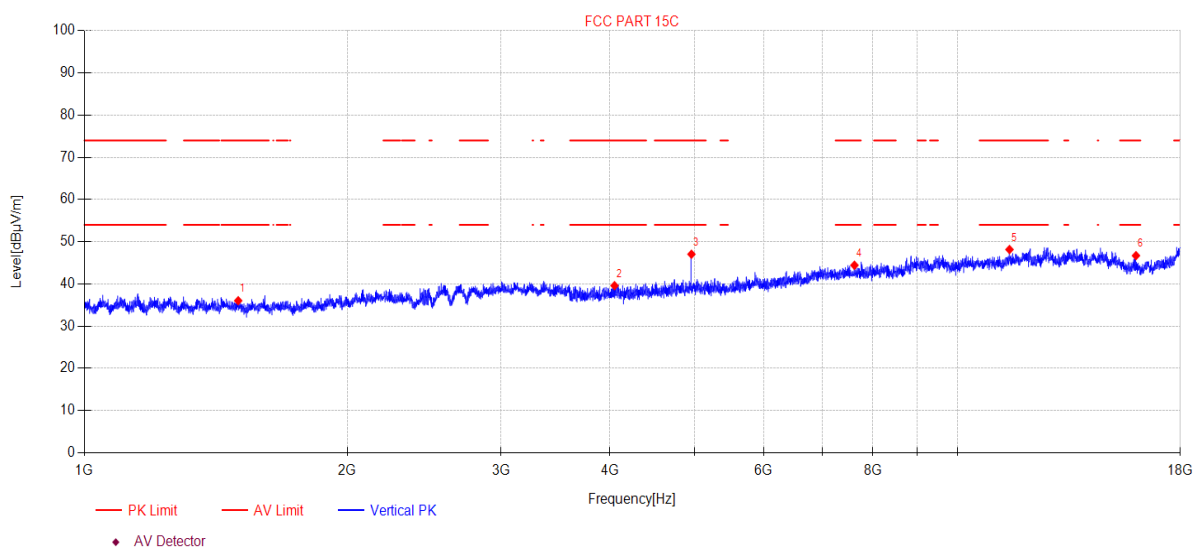
Condition: Temp:23.3°C;Humi:60.2%

Test Site: DDT 3# Chamber

File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\40

Memo: GFSK 2M 2480 Right-handle

Test Graph



Suspected Data List

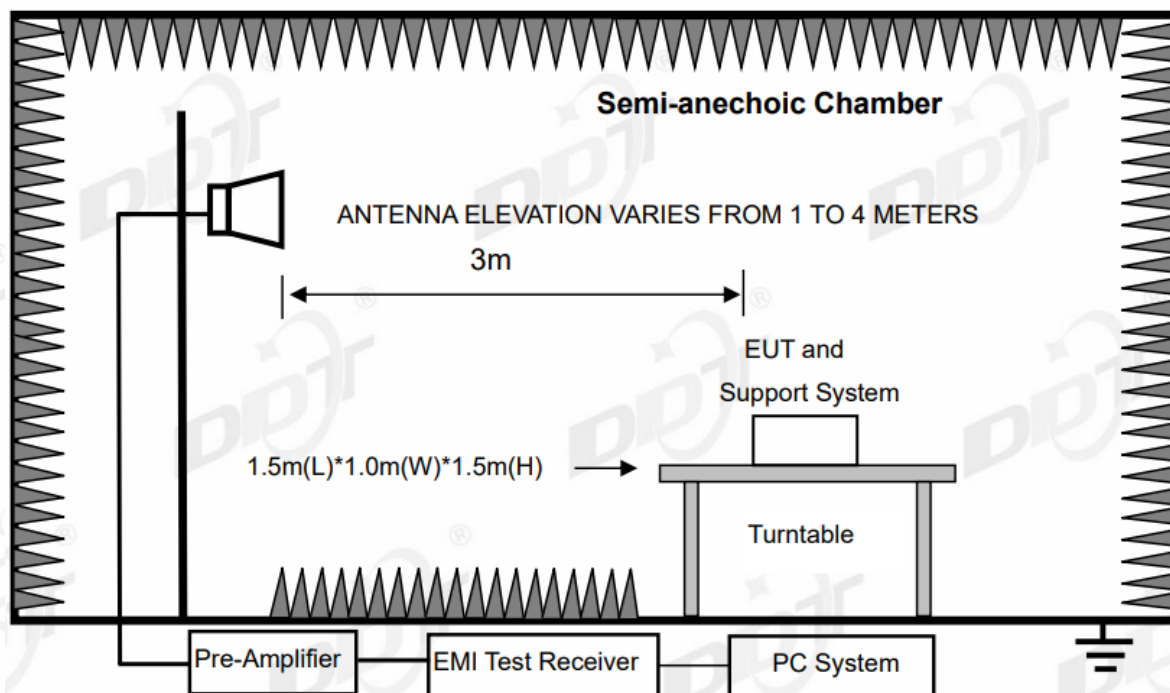
NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1500.45	47.30	2.18	25.50	-38.95	36.03	74.00	37.97	PK	Vertical
2	4048.00	46.99	3.20	30.80	-41.39	39.60	74.00	34.40	PK	Vertical
3	4958.51	52.05	3.30	32.80	-41.11	47.04	74.00	26.96	PK	Vertical
4	7620.65	45.20	3.78	36.44	-41.00	44.42	74.00	29.58	PK	Vertical
5	11470.84	44.18	4.69	39.03	-39.75	48.15	74.00	25.85	PK	Vertical
6	16011.76	42.51	6.70	37.89	-40.40	46.70	74.00	27.30	PK	Vertical

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

6. Band Edge Compliance

6.1. Block diagram of test setup



6.2. Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

6.3. Test procedure

Same with clause 6.3 except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2500 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

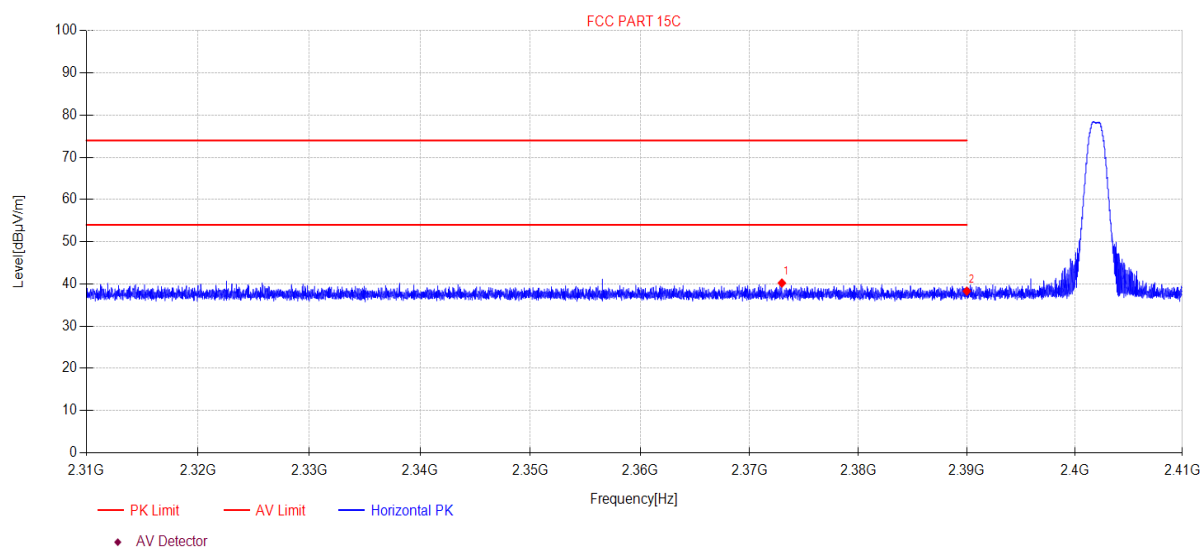
6.4. Test result

Pass. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-11**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK13**Memo:** GFSK 1M 2402 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2372.97	49.83	3.04	27.45	-40.11	40.21	74.00	33.79	PK	Horizontal
2	2390.00	47.89	3.06	27.48	-40.13	38.30	74.00	35.70	PK	Horizontal

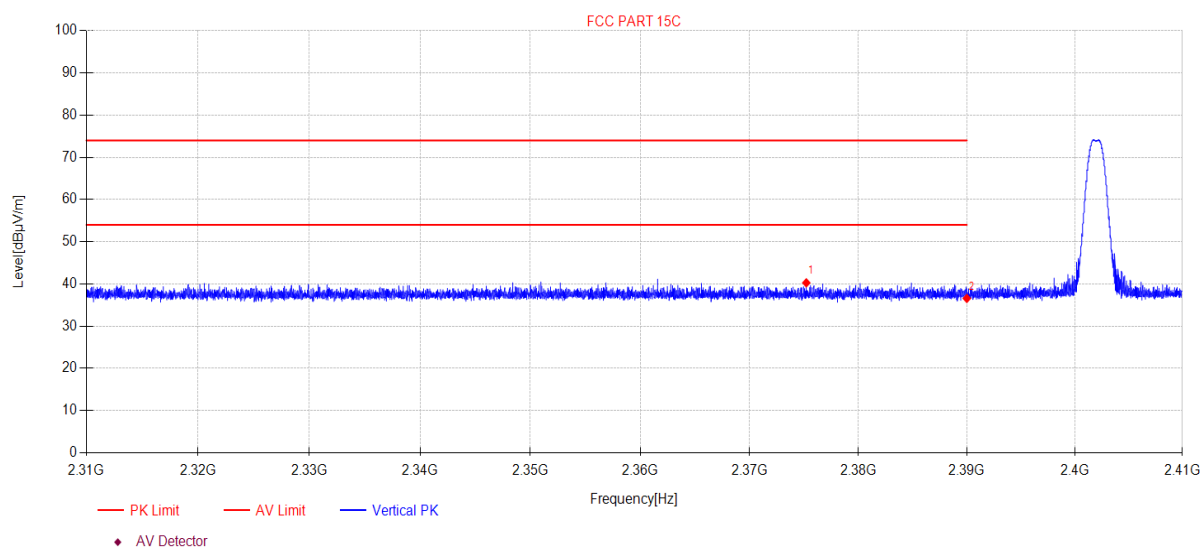
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-11**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK14**Memo:** GFSK 1M 2402 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2375.21	49.89	3.04	27.45	-40.11	40.27	74.00	33.73	PK	Vertical
2	2390.00	46.15	3.06	27.48	-40.13	36.56	74.00	37.44	PK	Vertical

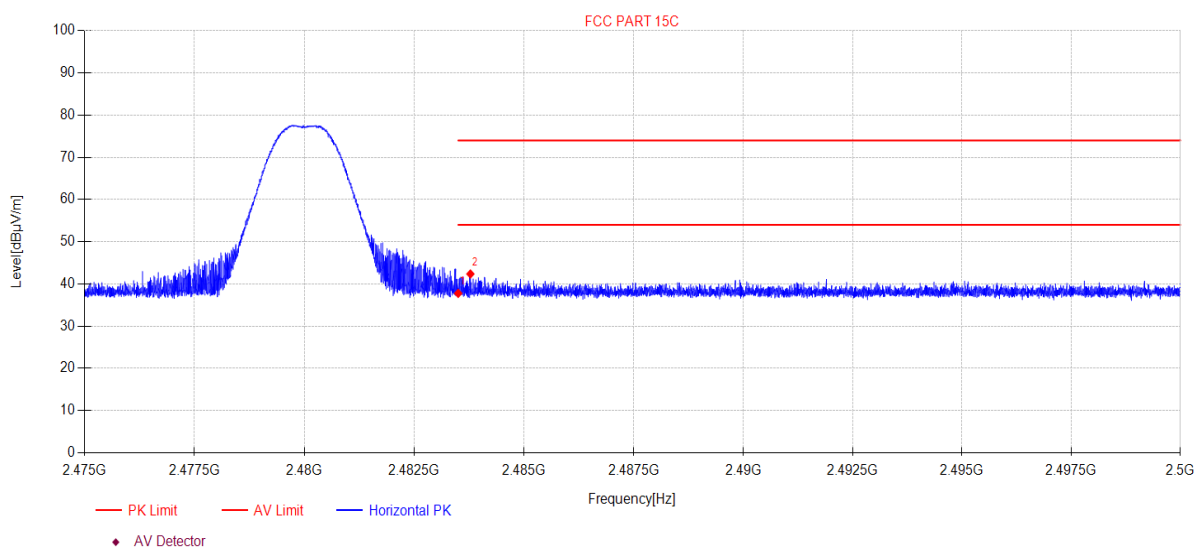
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-11**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK15**Memo:** GFSK 1M 2480 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	47.12	3.15	27.73	-40.23	37.77	74.00	36.23	PK	Horizontal
2	2483.78	51.70	3.15	27.74	-40.23	42.36	74.00	31.64	PK	Horizontal

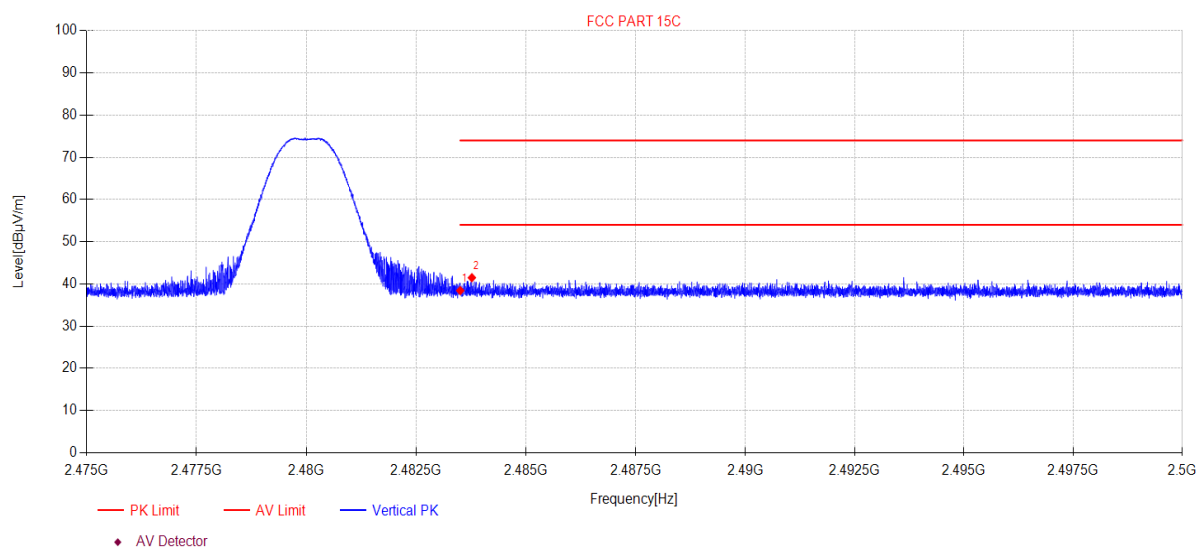
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-11**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\16**Memo:** GFSK 1M 2480 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	47.78	3.15	27.73	-40.23	38.43	74.00	35.57	PK	Vertical
2	2483.77	50.82	3.15	27.74	-40.23	41.48	74.00	32.52	PK	Vertical

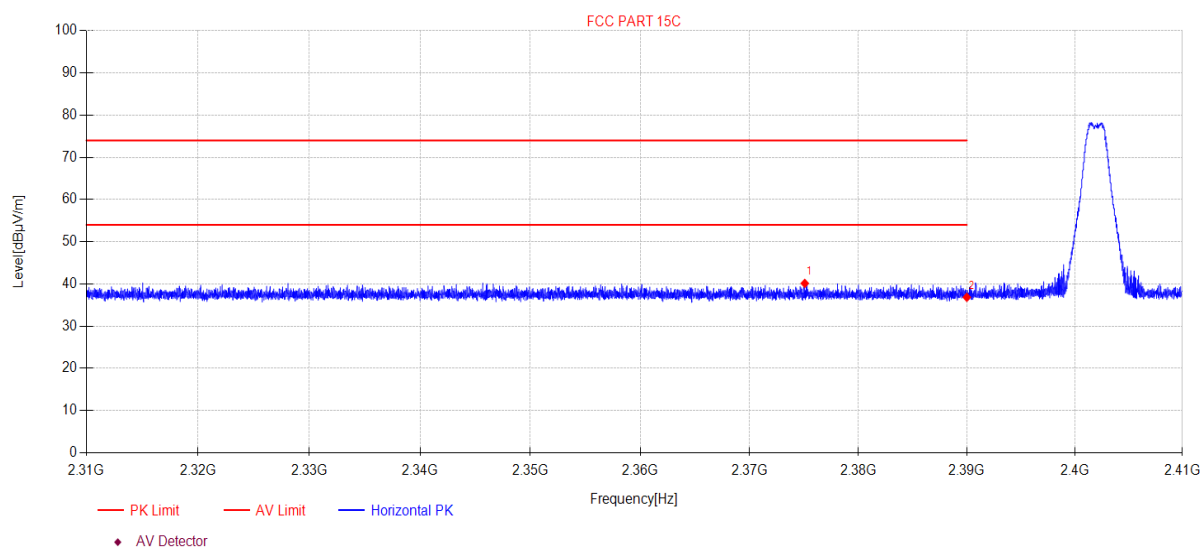
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-11**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK17**Memo:** GFSK 2M 2402 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2375.07	49.76	3.04	27.45	-40.11	40.14	74.00	33.86	PK	Horizontal
2	2390.00	46.42	3.06	27.48	-40.13	36.83	74.00	37.17	PK	Horizontal

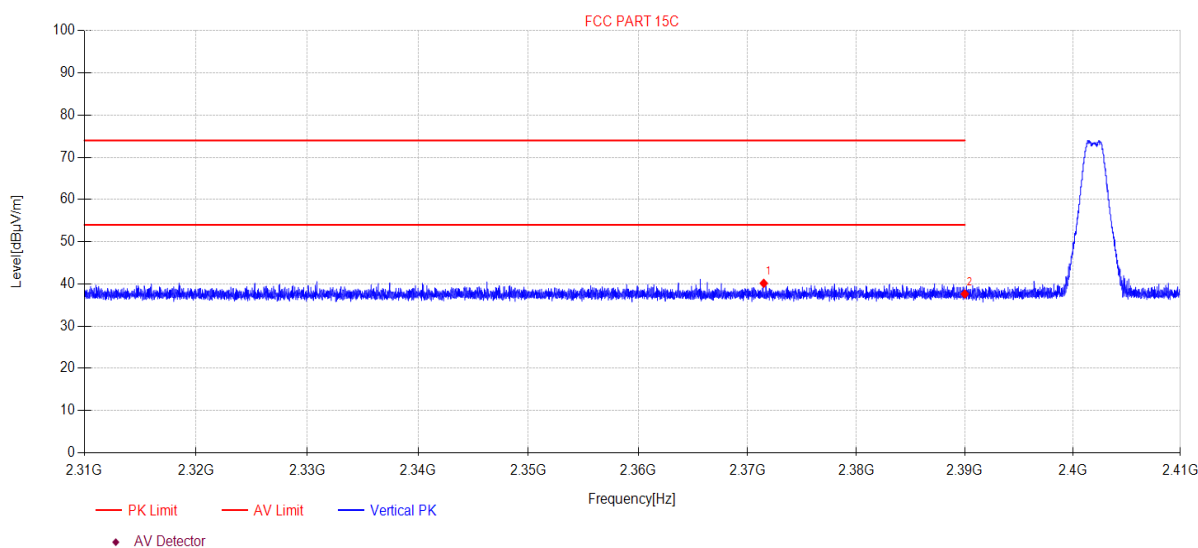
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-11**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK18**Memo:** GFSK 2M 2402 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2371.49	49.78	3.04	27.44	-40.11	40.15	74.00	33.85	PK	Vertical
2	2390.00	47.22	3.06	27.48	-40.13	37.63	74.00	36.37	PK	Vertical

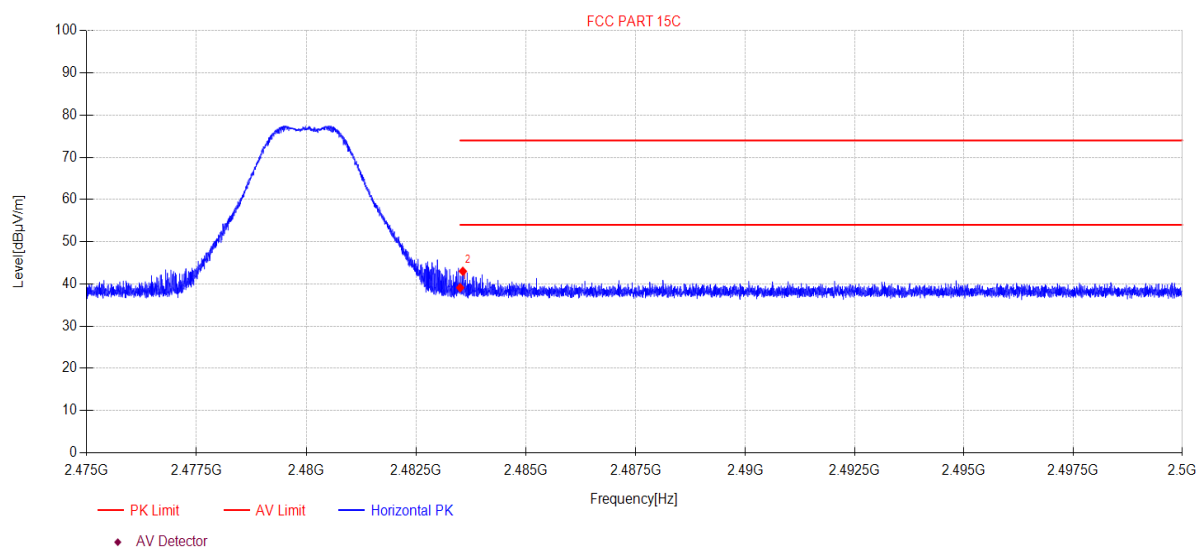
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-11**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK19**Memo:** GFSK 2M 2480 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	48.46	3.15	27.73	-40.23	39.11	74.00	34.89	PK	Horizontal
2	2483.56	52.35	3.15	27.73	-40.23	43.00	74.00	31.00	PK	Horizontal

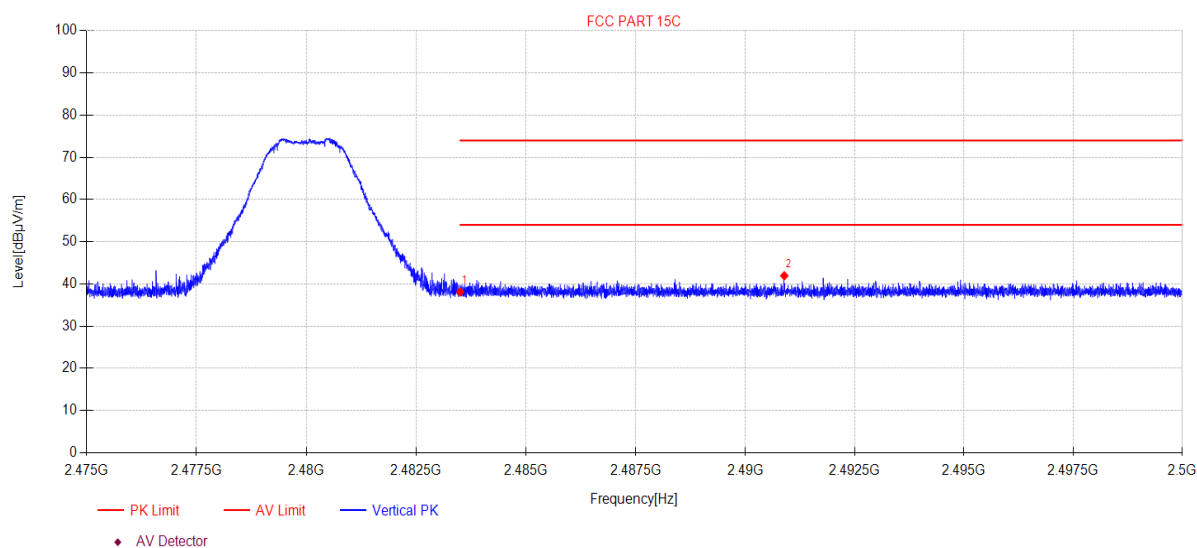
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-11**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\20**Memo:** GFSK 2M 2480 Left-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	47.44	3.15	27.73	-40.23	38.09	74.00	35.91	PK	Vertical
2	2490.89	51.26	3.16	27.76	-40.24	41.94	74.00	32.06	PK	Vertical

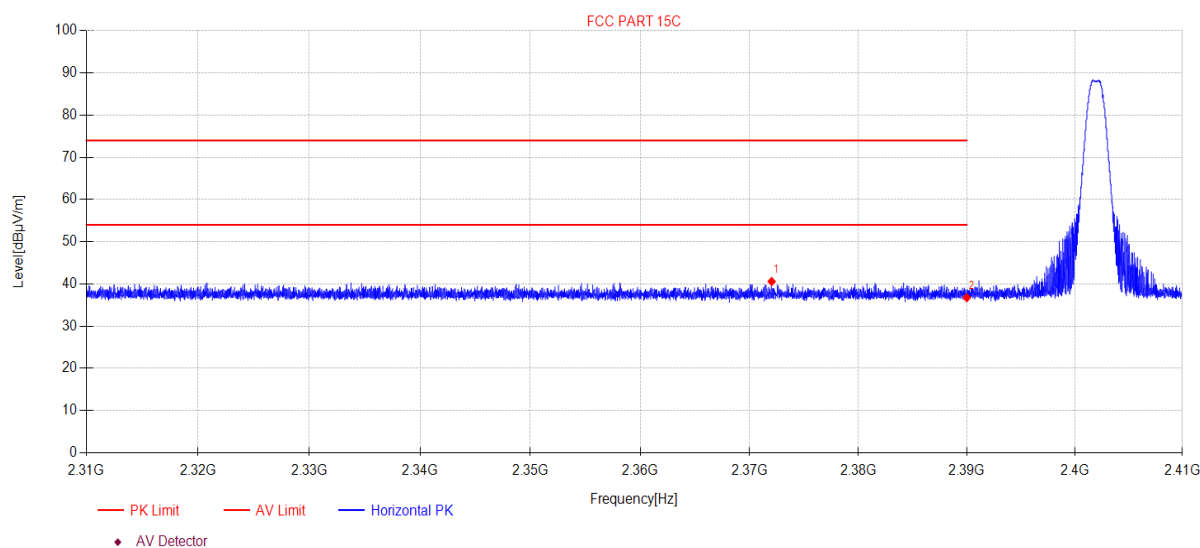
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\41**Memo:** GFSK 1M 2402 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2372.03	50.21	3.04	27.44	-40.11	40.58	74.00	33.42	PK	Horizontal
2	2390.00	46.34	3.06	27.48	-40.13	36.75	74.00	37.25	PK	Horizontal

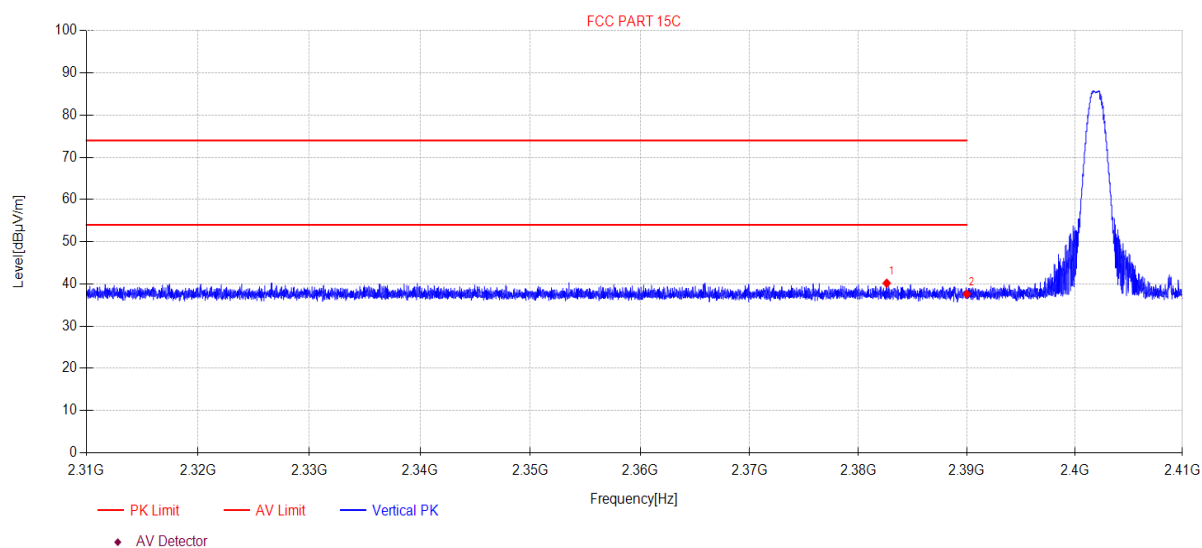
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\42**Memo:** GFSK 1M 2402 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2382.61	49.78	3.05	27.47	-40.12	40.18	74.00	33.82	PK	Vertical
2	2390.00	47.21	3.06	27.48	-40.13	37.62	74.00	36.38	PK	Vertical

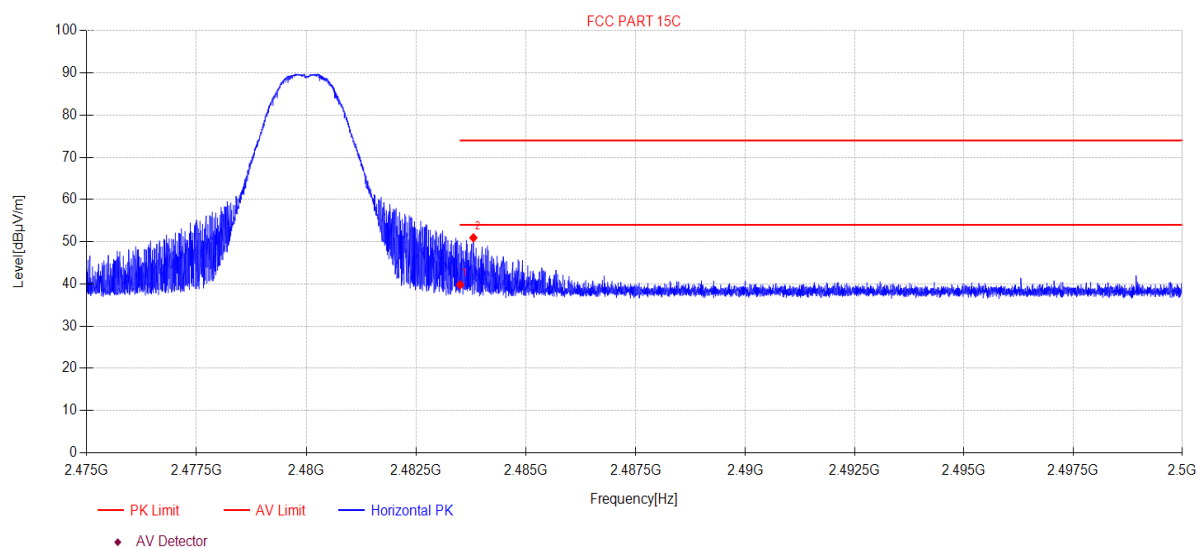
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\45**Memo:** GFSK 1M 2480 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	49.16	3.15	27.73	-40.23	39.81	74.00	34.19	PK	Horizontal
2	2483.80	60.28	3.15	27.74	-40.23	50.94	74.00	23.06	PK	Horizontal

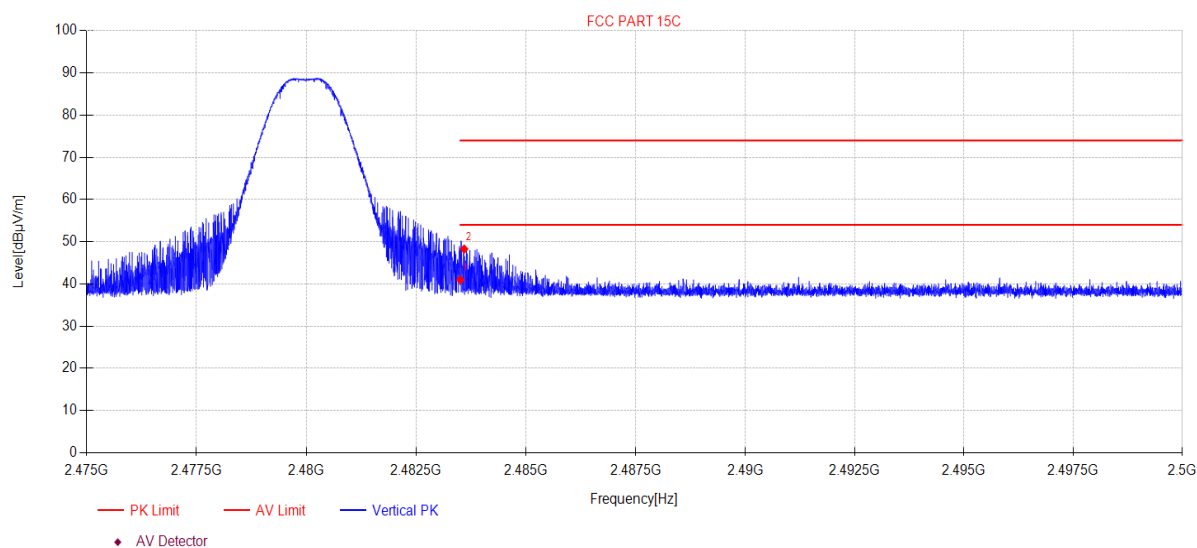
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\46**Memo:** GFSK 1M 2480 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	50.32	3.15	27.73	-40.23	40.97	74.00	33.03	PK	Vertical
2	2483.59	57.62	3.15	27.73	-40.23	48.27	74.00	25.73	PK	Vertical

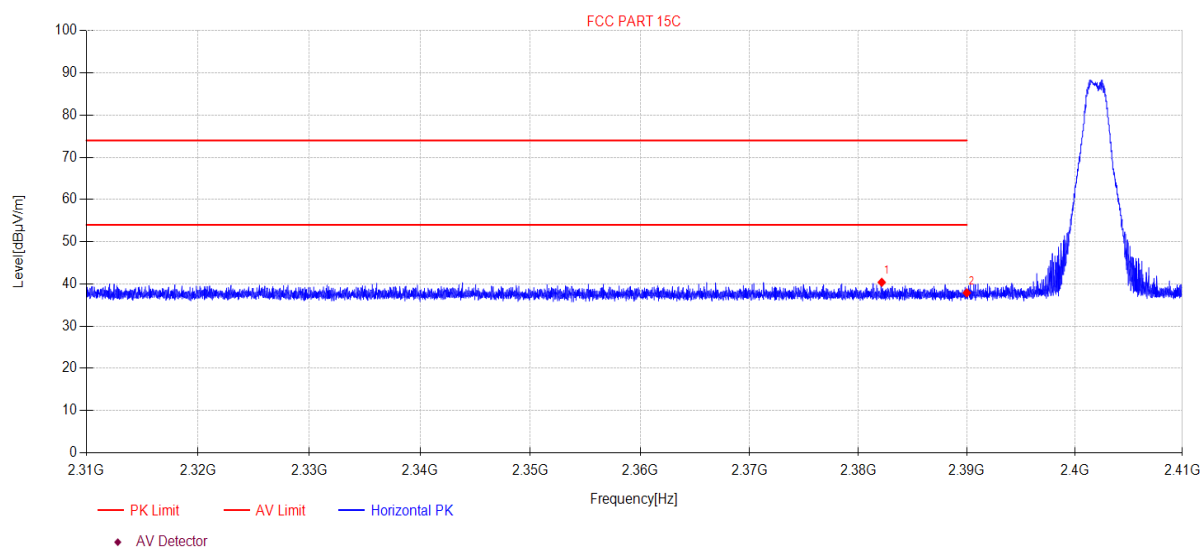
Note:

- Level = Reading + Cable Loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\43**Memo:** GFSK 2M 2402 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2382.15	50.00	3.05	27.46	-40.12	40.39	74.00	33.61	PK	Horizontal
2	2390.00	47.48	3.06	27.48	-40.13	37.89	74.00	36.11	PK	Horizontal

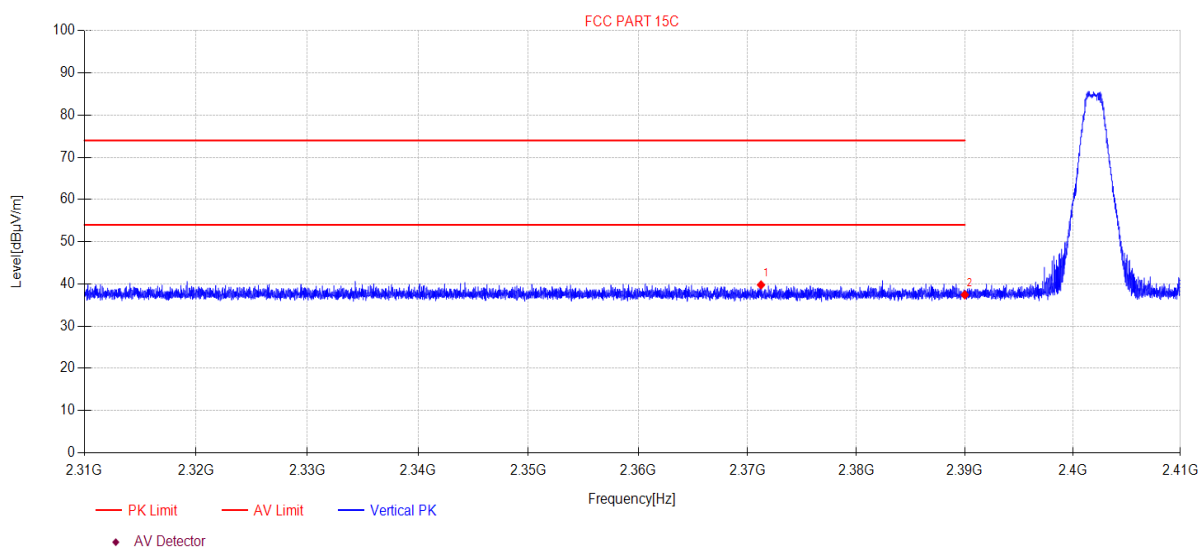
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13 **Tested By:** Liaowanrong
EUT: K106 **Model Number:** K106
Test Mode: TX Mode **Power Supply:** Battery
Condition: Temp:23.3°C;Humi:60.2% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\44
Memo: GFSK 2M 2402 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2371.24	49.40	3.04	27.44	-40.11	39.77	74.00	34.23	PK	Vertical
2	2390.00	47.01	3.06	27.48	-40.13	37.42	74.00	36.58	PK	Vertical

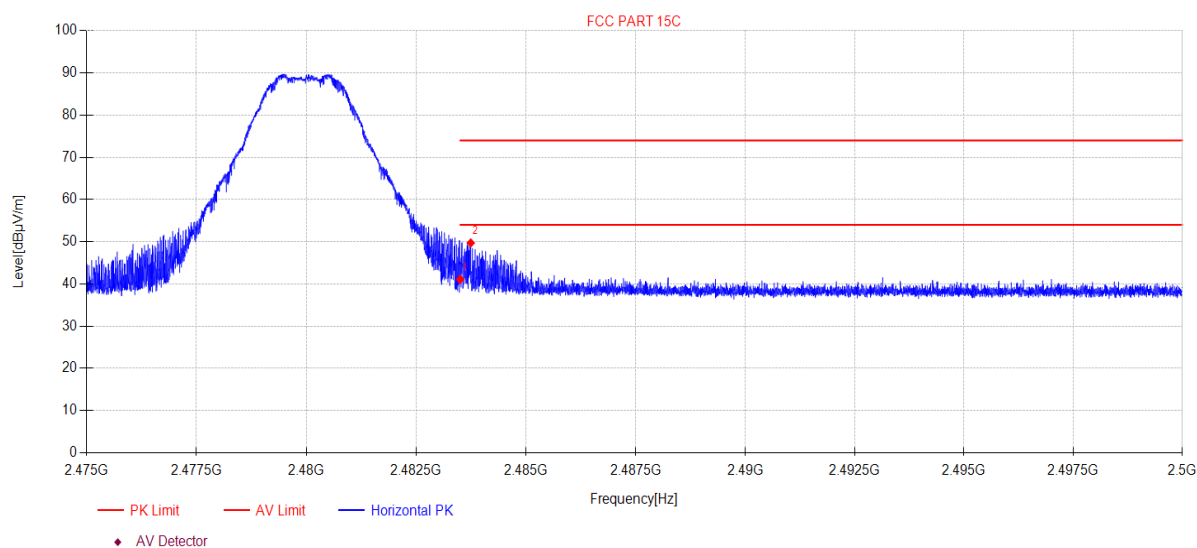
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\47**Memo:** GFSK 2M 2480 Right-handle

Test Graph



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	50.43	3.15	27.73	-40.23	41.08	74.00	32.92	PK	Horizontal
2	2483.74	59.06	3.15	27.73	-40.23	49.71	74.00	24.29	PK	Horizontal

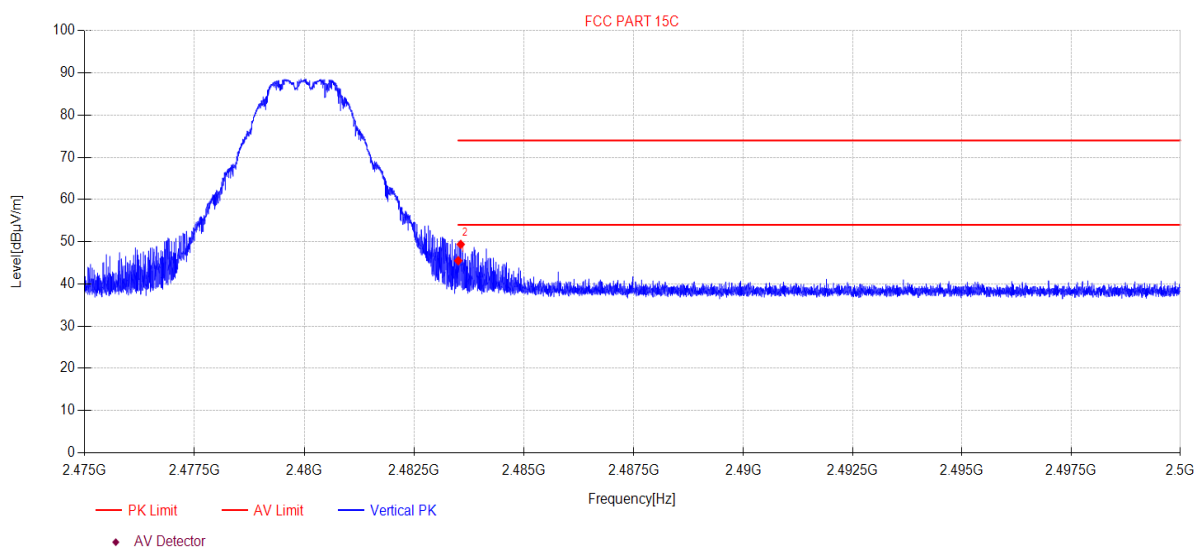
Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2023-02-13**Tested By:** Liaowanrong**EUT:** K106**Model Number:** K106**Test Mode:** TX Mode**Power Supply:** Battery**Condition:** Temp:23.3°C;Humi:60.2%**Test Site:** DDT 3# Chamber**File Path:** d:\ts\2022 report data\Q23011007-3E K106\FCC ABOVE 1G 2.4GGFSK\48**Memo:** GFSK 2M 2480 Right-handle

Test Graph



Suspected Data List

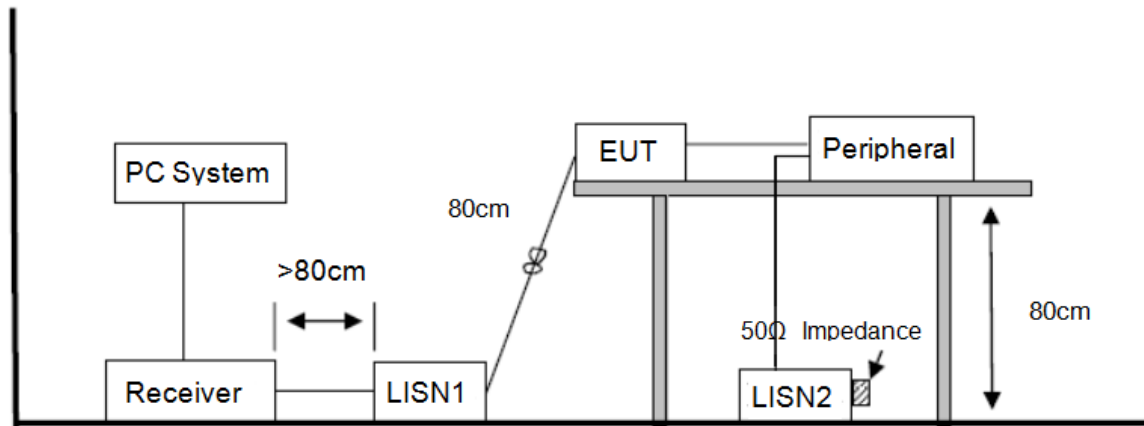
NO	Freq. [MHz]	Reading [dBμV]	Cable Loss [dB]	Antenna Factor [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.50	54.86	3.15	27.73	-40.23	45.51	74.00	28.49	PK	Vertical
2	2483.56	58.73	3.15	27.73	-40.23	49.38	74.00	24.62	PK	Vertical

Note:

1. Level = Reading + Cable Loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

7. Power Line Conducted Emission

7.1. Block diagram of test setup



7.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

7.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80 cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 8.1 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

After the preliminary scan, we found the test mode producing the highest emission level. The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest

emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

7.4. Test result

Not Applicable, since the EUT is battery-operated device only.

8. Antenna Requirements

8.1. Limit

For intentional device, according to FCC 47 CFR 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.

8.2. Result

The antenna used for this product and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 0.5 dBi (Left-handle) and 0.9 dBi (Right-handle).

10. Photos of the EUT

Please refer to appendix I.

END OF REPORT