KSIGN (Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China Tel.: + (86)755-29852678 Fax: + (86)755-29852397 E-mail: info@gdksign.cn Website: www.gdksign.com

# TEST REPORT

Report No....: KS2010S01810E

FCC ID..... 2AO94-MK06

Applicant....: MOKO TECHNOLOGY LIMITED

Address.... 2F, Building1, No. 37 Xiaxintang Xintang village, Fucheng Street,

Longhua District, Shenzhen, Guangdong Province, China

Manufacturer..... MOKO TECHNOLOHY Ltd

Address....: 2F, Building1, No. 37 Xiaxintang Xintang village, Fucheng Street,

Longhua District, Shenzhen, Guangdong Province, China

Factory ..... MOKO TECHNOLOHY Ltd

Address....: 2F, Building1, No. 37 Xiaxintang Xintang village, Fucheng Street.

Longhua District, Shenzhen, Guangdong Province, China

Product Name ....: **Bluetooth Low Energy Module** 

Trade Mark .....:

Model/Type reference .....: MK06A

Listed Model(s)..... MK06B

Standard....: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of Receipt .....: Oct. 30, 2020

Date of Test Date ..... Oct. 30, 2020- Dec. 21, 2020

Date of issue .....: Dec. 21, 2020

Test result ....: **Pass** 

Compiled by:

(Printed name+signature) Rory Huang

Supervised by:

( Printed name+signature) Eder Zhan

Approved by:

( Printed name+signature) Cary Luo

Testing Laboratory Name .....: KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Address .....:

Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China

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### 1. TEST SUMMARY

### 1.1. Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.247:** Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

**KDB 558074 D01**: The measurement guidance provided herein is applicable only to Digital Transmission System (DTS) devices operating in the 902-928 MHz. 2400-2483.5 MHz and/or 5725-5850 MHz bands under § 15.247 of the FCC rules (Title 47 of the Code of Federal Regulations).

### 1.2. Report version

Revised No.	Date of issue	Description
01	Dec. 21, 2020	Original



1.3. Test Description

FCC Part 15 Subpart C(15.247)					
T(11	Standard Section		T 1 F		
Test Item	FCC	Result	Test Engineer		
Antenna Requirement	15.203	Pass	Rory Huang		
Conducted Emission	15.207	Pass	Rory Huang		
Restricted Bands	15.205	Pass	Rory Huang		
Peak Output Power	15.247(b)	Pass	Rory Huang		
Band Edge Emissions	15.247(d)	Pass	Rory Huang		
Power Spectral Density	15.247(e)	Pass	Rory Huang		
Radiated Emission	15.205&15.209	Pass	Rory Huang		
6dB Bandwidth	15.247(a)(2)	Pass	Rory Huang		
Spurious RF Conducted Emission	15.247(d)	Pass	Rory Huang		

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### Note:

- 1. The measurement uncertainty is not included in the test result.
- 1. The Two models have been tested, only the worst test model MK06B data is recorded in the report.



### 1.4. Test Facility

### Address of the report laboratory

### KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China

#### Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS-Lab Code: L13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

### IC Registration No.: CN0096

The 3m alternate test site of KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: CN0096

#### FCC-Registration No.: CN1272

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.



### 1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the KSIGN(Guangdong) Testing Co., Ltd. system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Below is the best measurement capability for KSIGN(Guangdong) Testing Co., Ltd.

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	2.80 dB	(1)

**Note (1):** This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

### 1.6. Environmental conditions

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

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba



# 2. GENERAL INFORMATION

# 2.1. Client Information

Applicant:	MOKO TECHNOLOGY LIMITED		
Address:  2F, Building1, No. 37 Xiaxintang Xintang village, Fucheng S Longhua District, Shenzhen, Guangdong Province, China			
Manufacturer:	MOKO TECHNOLOHY Ltd		
Address: 2F, Building1, No. 37 Xiaxintang Xintang village, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, China			
Factory: MOKO TECHNOLOHY Ltd			
Address:	2F, Building1, No. 37 Xiaxintang Xintang village, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, China		

# 2.2. General Description of EUT

Test Sample Number:	1-1-1(Normal Sample),1-1-2(Engineering Sample)
Product Name:	Bluetooth Low Energy Module
Model/Type reference:	MK06A
Marketing Name:	
Listed Model(s):	MK06B
Model Difference:	The difference between product models only depends and the model naming, Type of antenna is different. Other power supply methods, safety structure and key components are the same, which do not affect the safety and electromagnetic compatibility performance.
Power supply :	Input : DC 3.3V
Hardware version:	V1.0
Software version:	V1.0.0
Bluetooth 5.0 BLE	
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Max Peak Output Power:	-1.09dBm
Channel number:	40
Channel separation:	2MHz
Antenna type:	PCB Antenna for MK06A External FPC Antenna for MK06B
Antenna gain:	-0.1dBi for MK06A Max. 2.0dBi for MK06B



## 2.3. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT BLE, 40 channels are provided to the EUT. Channels 00/19/39 were selected for testing. Operation Frequency List:

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Channel	Frequency (MHz)
00	2402
01	2404
	)4\NZ
19	2440
20	2442
21	2444
	- 1
38	2478
39	2480

Note: The display in grey were the channel selected for testing.

Test mode

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



# 2.4. Measurement Instruments List

	Tonscend JS0806-2 Test system				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	Spectrum Analyzer	R&S	FSV40-N	101798	04/07/2021
2	Vector Signal Generator	Agilent	N5182A	MY50142520	04/07/2021
3	Analog Signal Generator	HP	83752A	3344A00337	04/07/2021
4	Power Sensor	Agilent	E9304A	MY50390009	04/07/2021
5	Power Sensor	Agilent	E9300A	MY41498315	04/07/2021
6	Wideband Radio Communication Tester	R&S	CMW500	157282	04/07/2021
7	Climate Chamber	Angul	AGNH80L	1903042120	04/07/2021
8	Dual Output DC Power Supply	Agilent	E3646A	MY40009992	04/07/2021
9	RF Control Unit	Tonscend	JS0806-2	1	04/07/2021

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	Transmitter spurious emissions & Receiver spurious emissions				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
1	EMI Test Receiver	R&S	ESR	102525	04/07/2021
2	High Pass Filter	Chengdu E-Microwave	OHF-3-18-S	0E01901038	03/27/2021
3	High Pass Filter	Chengdu E-Microwave	OHF-6.5-18-S	0E01901039	03/27/2021
4	Spectrum Analyzer	HP	8593E	3831U02087	04/07/2021
5	Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	01230	03/29/2023
6	Loop Antenna	Beijin ZHINAN	ZN30900C	18050	03/25/2021
7	Spectrum Analyzer	R&S	FSV40-N	101798	04/07/2021
8	Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	03/29/2023
9	Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	04/07/2021
10	Pre-Amplifier	EMCI	EMC051835SE	980662	04/07/2021

	Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
	1	LISN	R&S	ENV432	1326.6105.02	03/27/2021
	2	EMI Test Receiver	R&S	ESR	102524	04/07/2021
Ý	3	Manual RF Switch	JS TOYO	N/ I	MSW-01/002	04/07/2021

### Note:

### 2.5. Test Software

Software name	Model	Version
Conducted emission Measurement Software	EZ-EMC	EMC-Con 3A1.1
Radiated emission Measurement Software	EZ-EMC	FA-03A.2.RE
Bluetooth and WIFI Test System	JS1120-3	2.5.77.0418

<sup>1)</sup>The Cal. Interval was one year.2)The cable loss has calculated in test result which connection between each test instruments.



### 3. TEST ITEM AND RESULTS

### 3.1. Antenna requirement

### Requirement

### FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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### FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

### **Test Result**

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

Note: The antenna is permanently fixed to the EUT



### 3.2. Conducted Emission

### Limit

#### **Conducted Emission Test Limit**

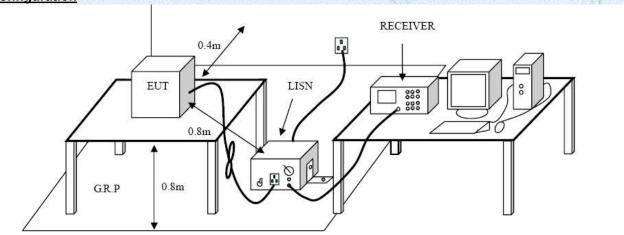
Farman	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

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#### Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### **Test Configuration**



### **Test Procedure**

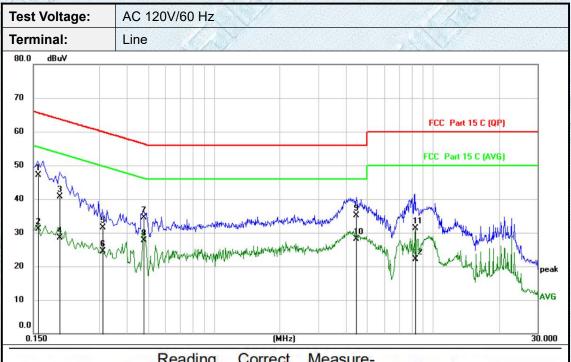
- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment.
  The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 7. During the above scans, the emissions were maximized by cable manipulation.

#### **Test Mode:**

Please refer to the clause 2.3.

### **Test Results**

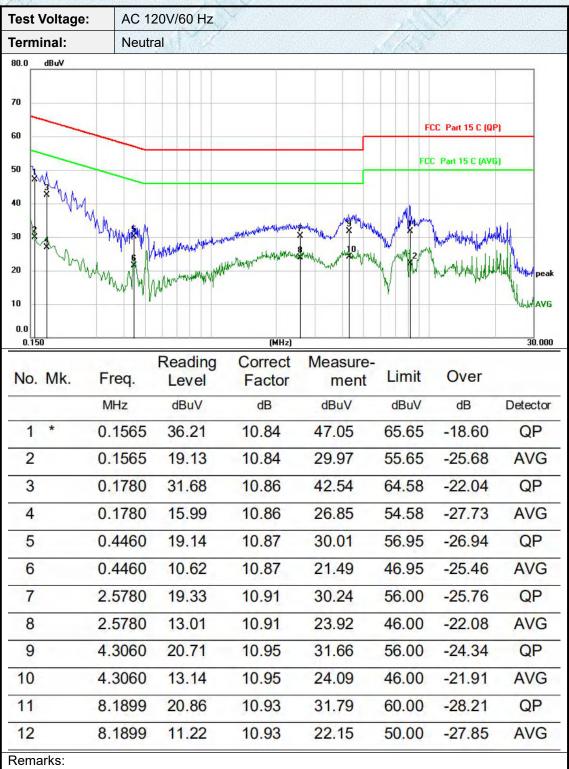




No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1580	36.18	10.83	47.01	65.57	-18.56	QP
2	0.1580	20.31	10.83	31.14	55.57	-24.43	AVG
3	0.1980	29.73	10.88	40.61	63.69	-23.08	QP
4	0.1980	17.62	10.88	28.50	53.69	-25.19	AVG
5	0.3100	20.66	10.89	31.55	59.97	-28.42	QP
6	0.3100	13.65	10.89	24.54	49.97	-25.43	AVG
7	0.4780	23.64	10.91	34.55	56.37	-21.82	QP
8	0.4780	16.76	10.91	27.67	46.37	-18.70	AVG
9	4.4740	24.17	10.97	35.14	56.00	-20.86	QP
10 *	4.4740	17.05	10.97	28.02	46.00	-17.98	AVG
11	8.3139	20.27	10.96	31.23	60.00	-28.77	QP
12	8.3139	11.06	10.96	22.02	50.00	-27.98	AVG

<sup>1.</sup>Measurement = Reading Level+ Correct Factor 2.Over = Measurement -Limit





<sup>1.</sup>Measurement = Reading Level+ Correct Factor

<sup>2.</sup>Over = Measurement -Limit

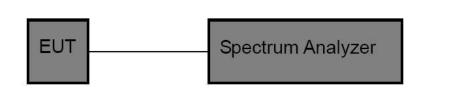


### 3.3. 6dB Bandwidth

### Limit

Test Item	Limit 🗸	Frequency Range(MHz)
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5

### **Test Configuration**



### **Test Procedure**

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.
- 3. The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.
- 4. Spectrum Setting:

### 6dB bandwidth:

- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) ≥ 3\* RBW.
- (3) Detector = Peak.
- (4) Trace mode = Max hold.
- (5) Sweep = Auto couple.
- (6) Allow the trace to stabilize.
- (7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

#### **Test Mode**

Please refer to the clause 2.3.

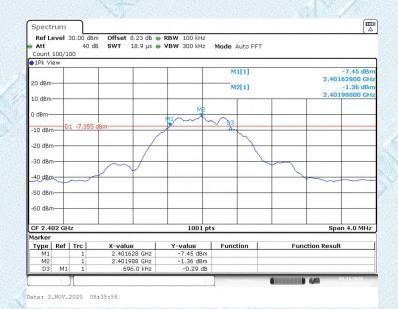
### **Test Results**



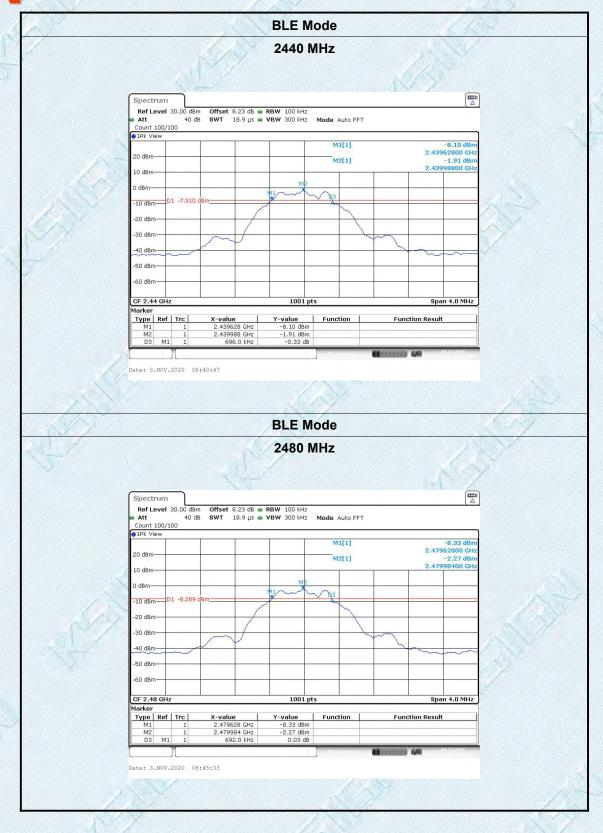


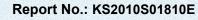
BLE\_1M

Test Mode:	BLE Mode	9 S	367
Channel freque	ncy (MHz)	6dB Bandwidth (kHz)	Limit (kHz)
2402		696	
2440		696	≥500
2480		692	
		BLE Mode	200
1/1/20		2402 MHz	/ //









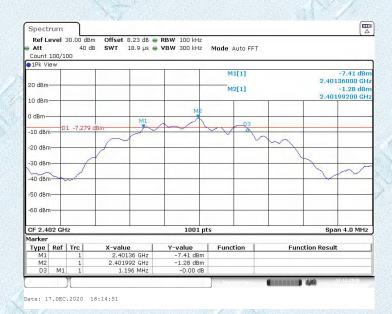


### BLE\_2M

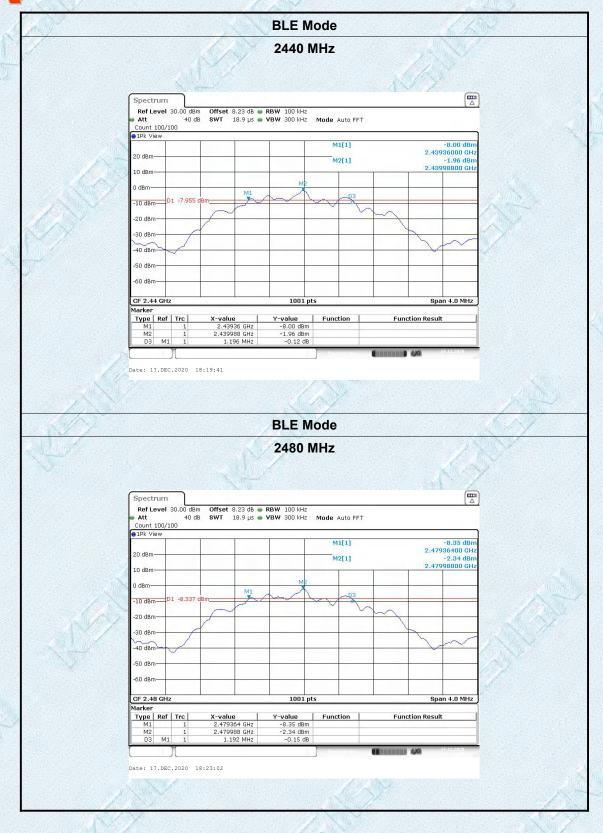
6dB Bandwidth (kHz)	Limit (kHz)
1196	
1196	≥500
1192	
	1196 1196

### **BLE Mode**

### 2402 MHz









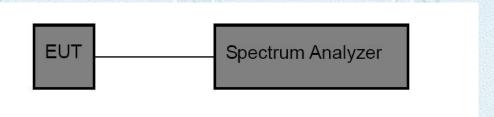
# 3.4. Peak Output Power

### Limit

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

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### **Test Configuration**



### **Test Procedure**

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. Spectrum Setting:

Peak Detector: RBW≥DTS Bandwidth, VBW≥3\*RBW.

Sweep time=Auto.

Detector= Peak.

Trace mode= Maxhold.

Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

### **Test Mode**

Please refer to the clause 2.3.

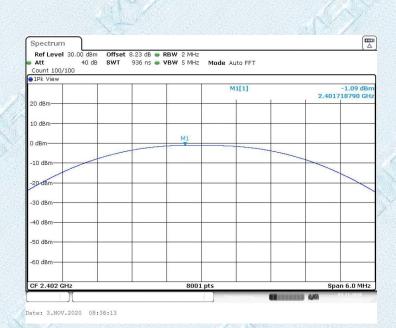
### **Test Result**



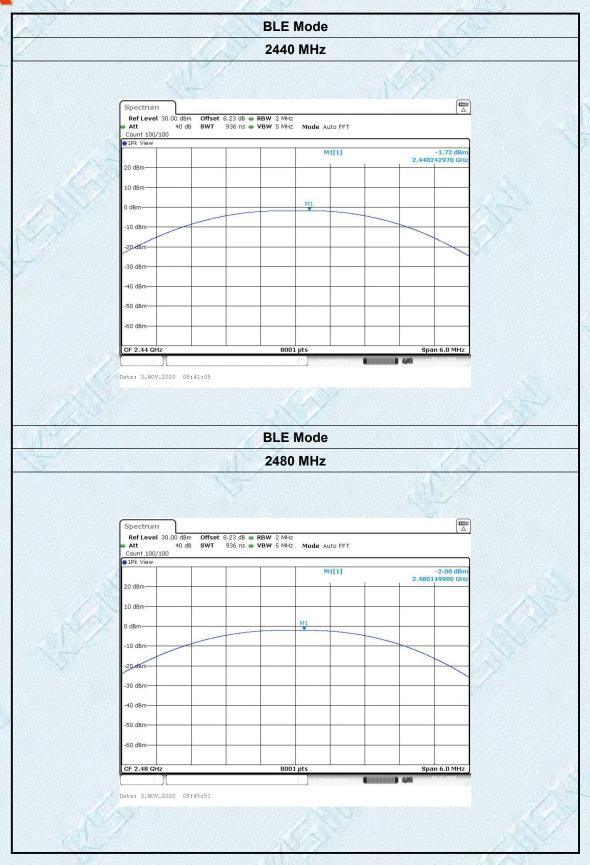


BLE 1M

Test Mode:	BLE Mode	K.	(49°
Channel freque	ency (MHz)	Test Result (dBm)	Limit (dBm)
2402		-1.09	
2440		-1.72	30
2480		-2.08	
7882		BLE Mode	288
		2402 MHz	/200







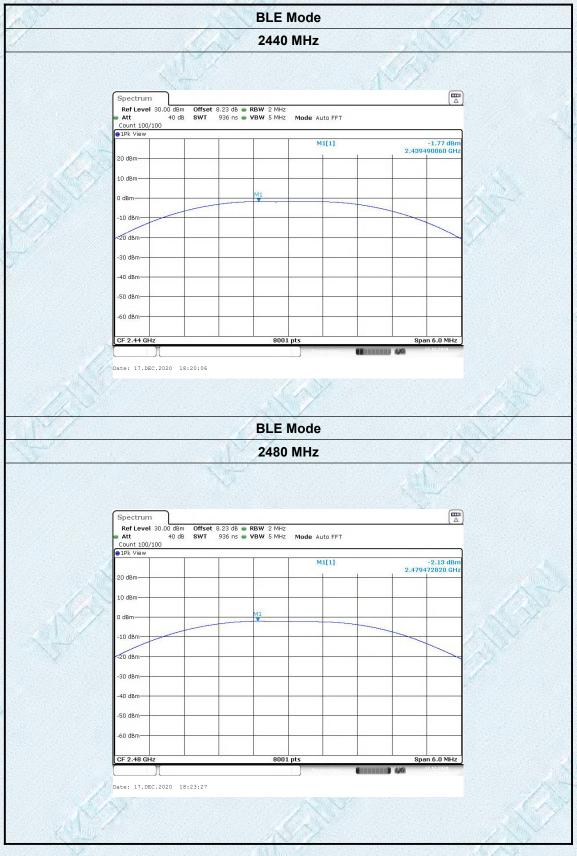


#### BLE 2M

LE_2M						
Test Mode:	BLE Mode			1/200		
Channel frequ	ency (MHz)	Test Resu	ılt (dBm)	Lim	nit (dBm)	
2402	2	-1.0	09			
2440		-1.77 -2.13			30	
(4)		BLE	<b>Node</b>		2.0	
		2402	MHz			
	Att 40 dB SW1	et 8.23 dB  RBW 2 MHz 936 ns  VBW 5 MHz	Mode Auto FFT	Δ		
	●1Pk View	T T	M1[1]	-1.09 dBm		
	20 dBm			2.401514060 GHz		
Ei.	10 dBm-				400	
- XX	0 dBm-	M1			7 00	
	-10 dBm				125	
100	-30 dBm					
N.	-40 dBm				<i>y</i>	
	-50 dBm					







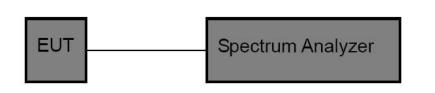


## 3.5. Power Spectral Density

#### Limit

FCC Part 15 Subpart C(15.247)			
Test Item	Limit	Frequency Range(MHz)	
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5	

### **Test Configuration**



### **Test Procedure**

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.
- 3. Spectrum Setting:

Set analyser center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 10 kHz Set the VBW to: 30 kHz

Detector: peak
Sweep time: auto

Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

### **Test Mode**

Please refer to the clause 2.3.

### **Test Result**

Note:

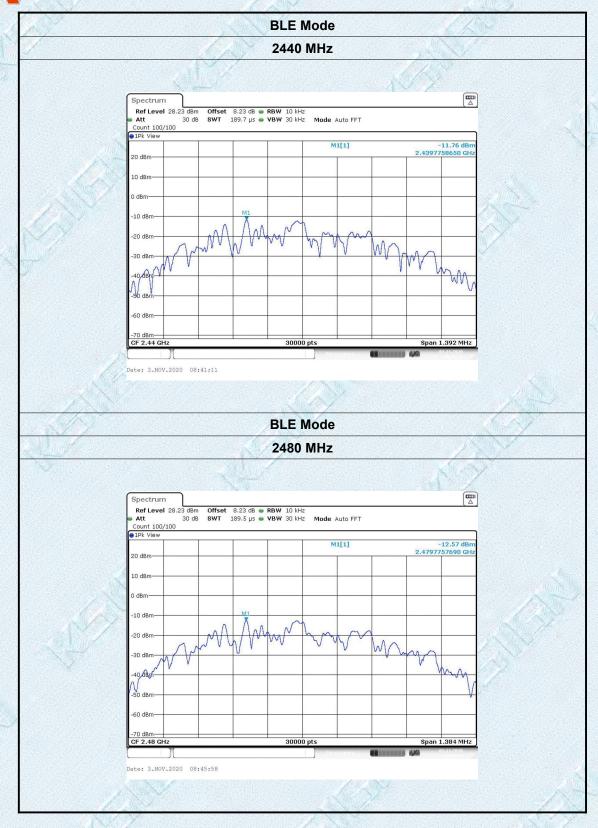
Power Density(dBm/3kHz)=Power Density(dBm/10kHz)-10\*Log(10/3)



BLE 1M

Test Mode:	BLE Mode			
Channel Freq (MHz)	uency	Power Density (dBm/10kHz)	Power Density (dBm/3kHz)	Limit (dBm)
2402 2440 2480		-11.46	-16.69	
		-11.76	-16.99	8dBm/3kH
		-12.57	-17.80	
1 S. ( ) A		BLE Mode		
		2402 MHz	/	
ı C		set 8.23 dB <b>■ RBW</b> 10 kHz T 189.7 μs <b>■ VBW</b> 30 kHz <b>Mode</b> Aut		
A 17	) dBm	M1[1	-11.46 dBm 2.4017760500 GHz	300
10 0 i -1 -2		M1 13	2.4017760500 GHz	



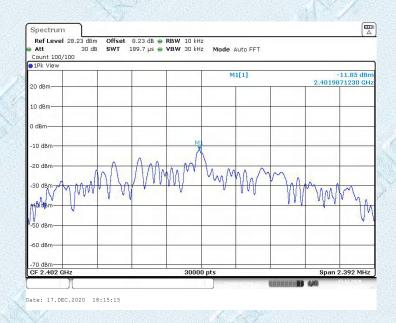




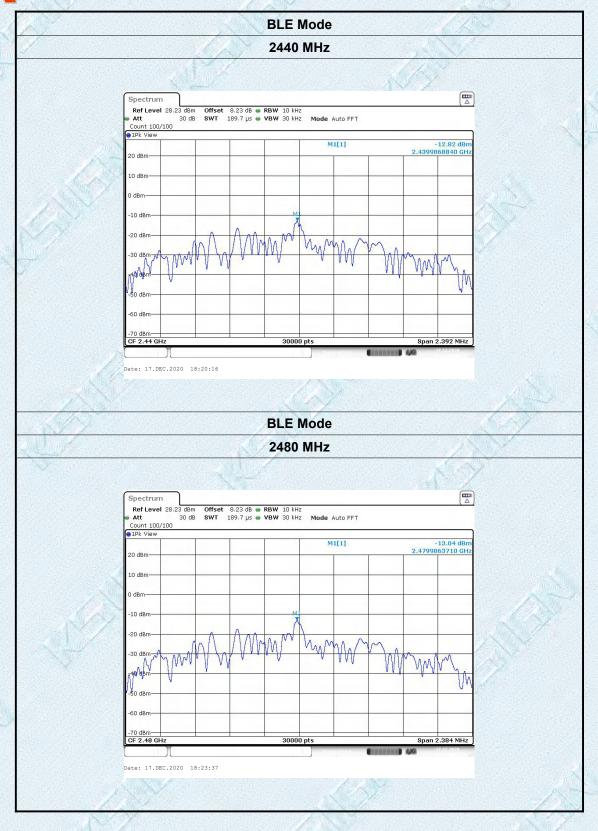


### BLE\_2M

Test Mode:	BLE Mode	э	10/59	
Channel Fro		Power Density (dBm/10kHz)	Power Density (dBm/3kHz)	Limit (dBm)
2402	2	-11.85	-17.08	
2440	0	-12.82	-18.05	8dBm/3kHz
2480	0	-13.04	-18.27	- Die
		BLE Mode		
		2402 MHz		(N)









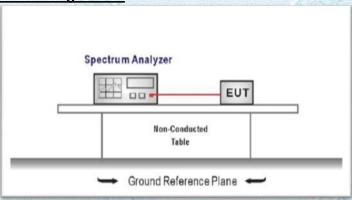
# 3.6. Band edge and Spurious Emission (conducted)

### **Limit**

### FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

### **Test Configuration**



### **Test Procedure**

- 1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
- 2. Spectrum Setting:

RBW=100KHz

VBW=300KHz.

Detector function: Peak.

Trace: Max hold. Sweep = Auto couple.

Allow the trace to stabilize.

### **Test Mode**

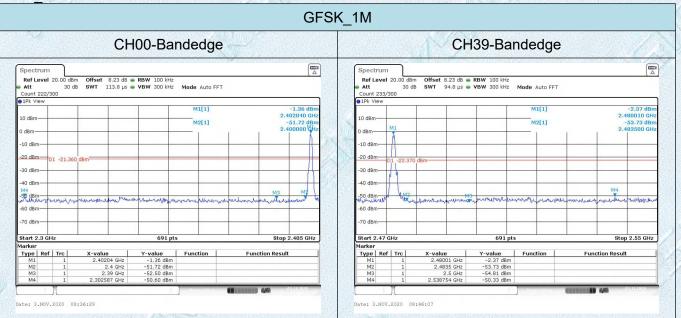
Please refer to the clause 2.3.

### **Test Results**





BLE 1M



BLE\_2M

