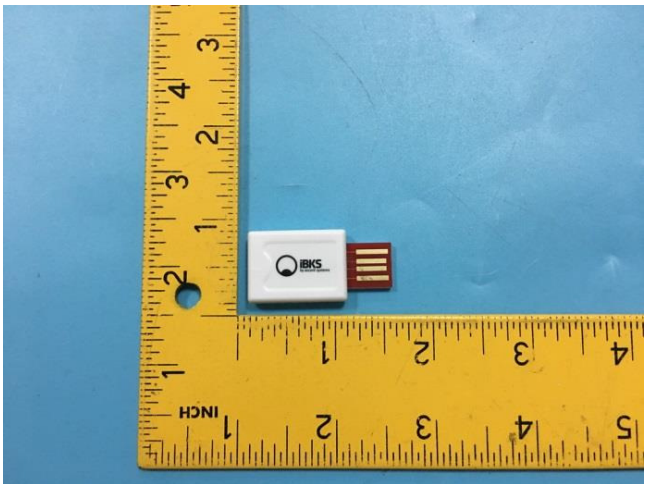


Prüfbericht-Nr.: Test Report No.:	50056124 001	Auftrags-Nr.: Order No.:	164071832	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	17.08.2016	
Auftraggeber: Client:	Accent Advanced Systems SLU Anselm Clavé 7, 08211 Castellar del Vallés, Spain			
Prüfgegenstand: Test item:	Bluetooth Low Energy Advertising Device			
Bezeichnung / Typ-Nr.: Identification / Type No.:	IBKSUSB (Accent Systems)			
Auftrags-Inhalt: Order content:	FCC Certification			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 v06 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109			
Wareneingangsdatum: Date of receipt:	31.08.2016			
Prüfmuster-Nr.: Test sample No.:	A000419574 002-006			
Prüfzeitraum: Testing period:	21.09.2016 - 22.11.2016			
Ort der Prüfung: Place of testing:	Shenzhen Accurate Technology Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
03.01.2017 Winnie Hou / Senior Project Manager Datum Name / Stellung Unterschrift Date Name / Position Signature		11.01.2017 Sam Lin / Technical Certifier Datum Name / Stellung Unterschrift Date Name / Position Signature		
Sonstiges / Other: FCC ID: 2ABTTIBKSUSB				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: *Passed*

5.1.2 PEAK OUTPUT POWER

RESULT: *Passed*

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: *Passed*

5.1.4 -6dB BANDWIDTH

RESULT: *Passed*

5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH

RESULT: *Passed*

5.1.6 SPURIOUS EMISSION

RESULT: *Passed*

5.1.7 CONDUCTED EMISSIONS

RESULT: *Passed*

5.1.8 RADIATED EMISSION

RESULT: *Passed*

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

Shenzhen Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China

FCC Registration No.: 752051

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Spurious emission and Radiated emission				
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	2017-01-09
Test Receiver	Rohde&Schwarz	ESCS30	100307	2017-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2017-01-09
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2017-01-09
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2017-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2017-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	2017-01-09
Spectrum Analyzer	Agilent	E7405A	MY45115511	2017-01-09
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2017-01-09
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2017-01-09
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2017-01-09
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2017-01-09

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Bluetooth Low Energy Advertising Device which supports Bluetooth low energy wireless technology.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Bluetooth Low Energy Advertising Device
Type Designation:	IBKSUSB
FCC ID	2ABTTIBKSUSB

Table 3: Technical Specification of EUT

Technical Specification	Value
Operating Frequency band	2402 – 2480 MHz
Bluetooth Core Version	4.0 Single mode
Channel separation	2MHz
Extreme Temperature Range	-25°C to +75°C
Operation Voltage	DC 5V via USB port
Modulation	GFSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	5.3dBi
RF Output Power	0.00128W (1.08dBm)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, operating
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------|
| - Bill of Material | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - Rating Label |
| - Technical Description | |

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2014 and ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested with following accessories

Description	Manufacturer	Type	S/N
Notebook PC	Lenovo	ThinkPad X240	N/A
Mobile phone	HUAWEI	HUAWEI NXT-AL10	5LM0216117010192

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

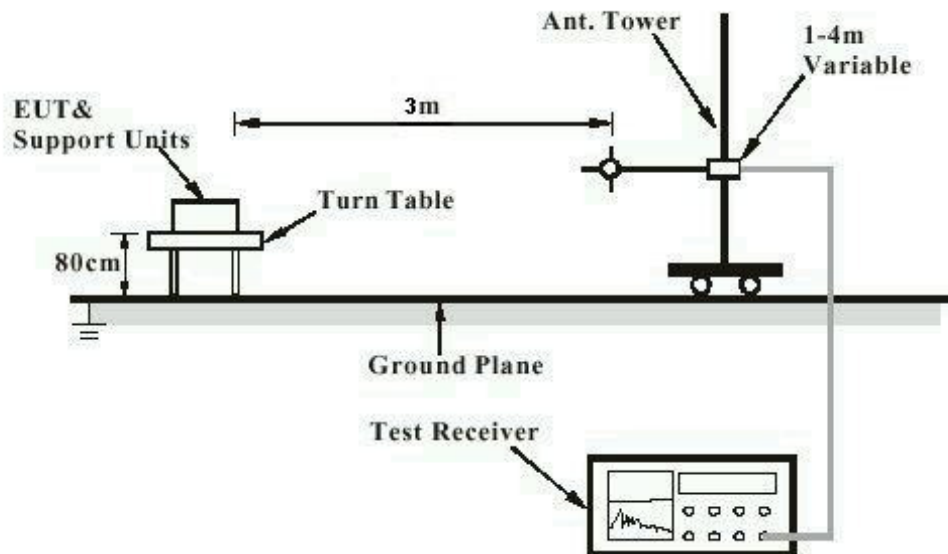


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

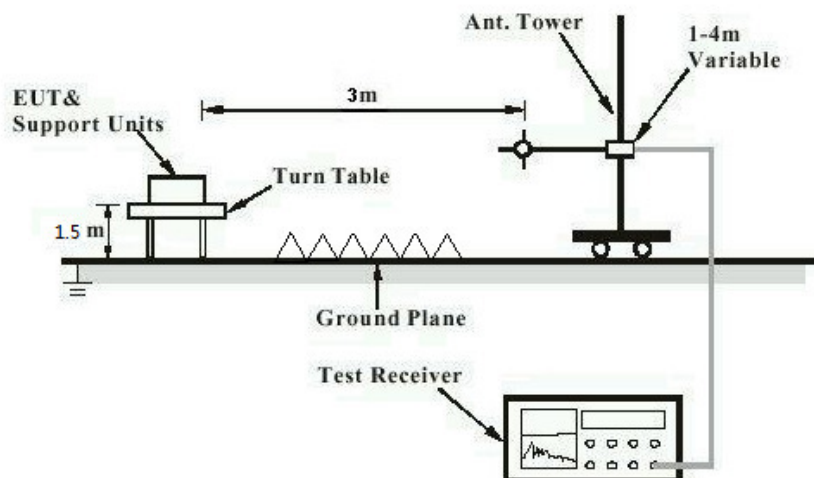


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

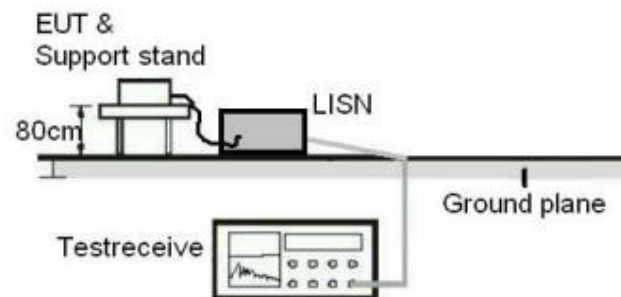
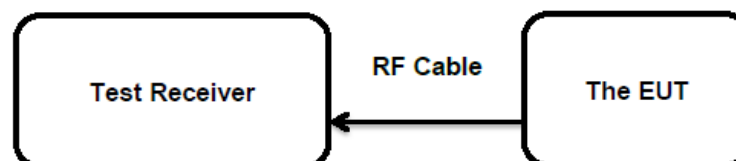


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen 6.7
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 5.3dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:**Passed**

Test date : 2016-09-22
Test standard : FCC Part 15.247(b)(3)
Basic standard : ANSI C63.10: 2013
Limit : 1 Watt
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 25°C
Relative humidity : 55%
Atmospheric pressure : 101 kPa

Table 4: Test result of Peak Output Power

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-0.75	0.00084	1
Middle Channel	2440	0.39	0.00109	1
High Channel	2480	1.08	0.00128	1

5.1.3 Conducted Power Spectral Density

RESULT:**Passed**

Test date : 2016-09-22
Test standard : FCC Part 15.247(e)
Basic standard : ANSI C63.10: 2013
Limit : 8dBm/3kHz
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 25°C
Relative humidity : 55%
Atmospheric pressure : 101 kPa

Table 5: Test result of Conducted Power Spectral Density

Channel	Channel Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Low Channel	2402	-15.05	8
Middle Channel	2440	-12.39	8
High Channel	2480	-10.17	8

5.1.4 -6dB Bandwidth**RESULT:****Passed**

Date of testing : 2016-09-22
Test standard : FCC Part 15.247(a)(2)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 25°C
Relative humidity : 55%
Atmospheric pressure : 101 kPa

Table 6: Test result of -6dB Bandwidth

Channel	Channel Frequency (MHz)	-6dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2402	668.6	500	Pass
Mid Channel	2440	699.0	500	Pass
High Channel	2480	694.6	500	Pass

**5.1.5 Conducted spurious emissions measured in 100kHz
Bandwidth****RESULT:****Passed**

Date of testing	:	2016-09-22
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.10: 2013
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

All emissions are more than 20dB below fundamental, details refer to Appendix 1.

5.1.6 Spurious Emission

RESULT:**Passed**

Date of testing	:	2016-09-21
Test standard	:	FCC part 15.247(d) FCC Part 15.205
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For details refer to Appendix 1.

5.1.7 Conducted emissions

RESULT:**Passed**

Date of testing	:	2016-11-19
Test standard	:	FCC Part 15.107(a) & FCC Part 15.207(a)
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107(a) & FCC Part 15.207(a)
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz via AC input of Notebook
Operation Mode	:	B
Earthing	:	Not connected
Ambient temperature	:	25°C
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

5.1.8 Radiated Emission

RESULT:**Passed**

Date of testing	:	2016-11-22
Test standard	:	FCC Part 15.109(a) & FCC Part 15.209(a)
Basic standard	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Limit	:	FCC Part 15.109(a) & FCC Part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Input Voltage	:	AC 120V, 60Hz via AC input of Notebook
Operation mode	:	B
Earthing	:	Not connected
Ambient temperature	:	Refer to Appendix 1
Relative humidity	:	Refer to Appendix 1
Atmospheric pressure	:	Refer to Appendix 1

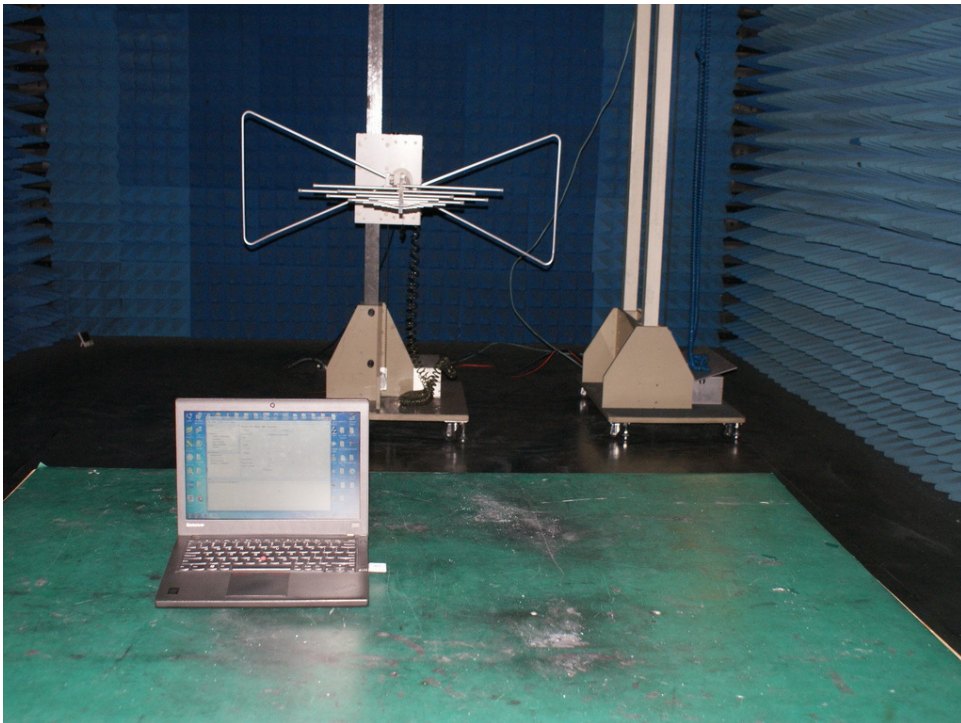
Test data refer to Appendix 1.

6. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)



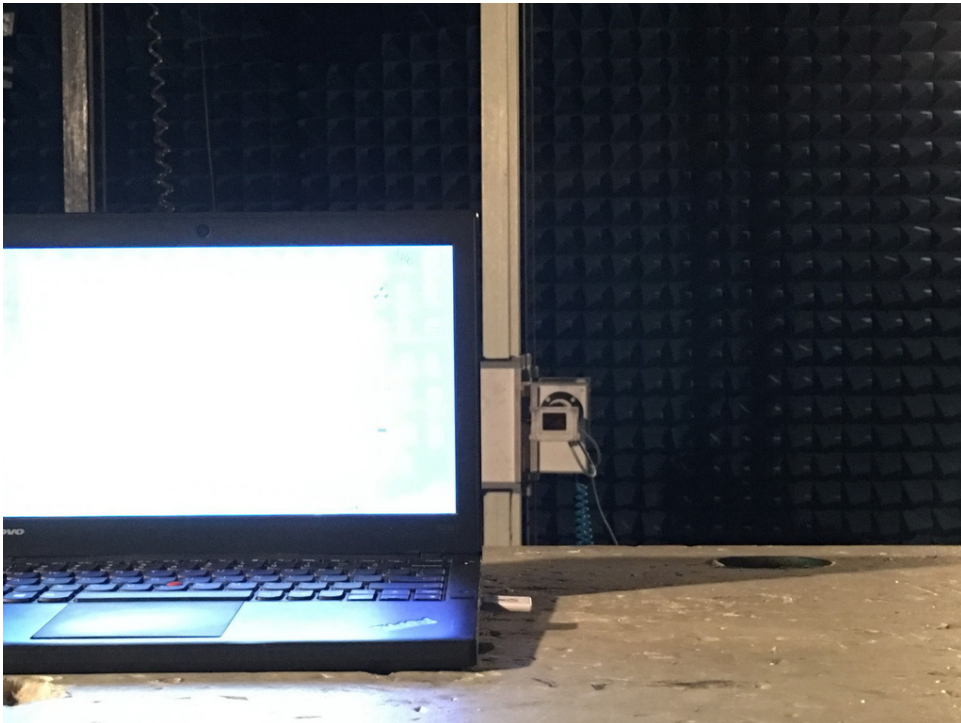
Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)



Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz)



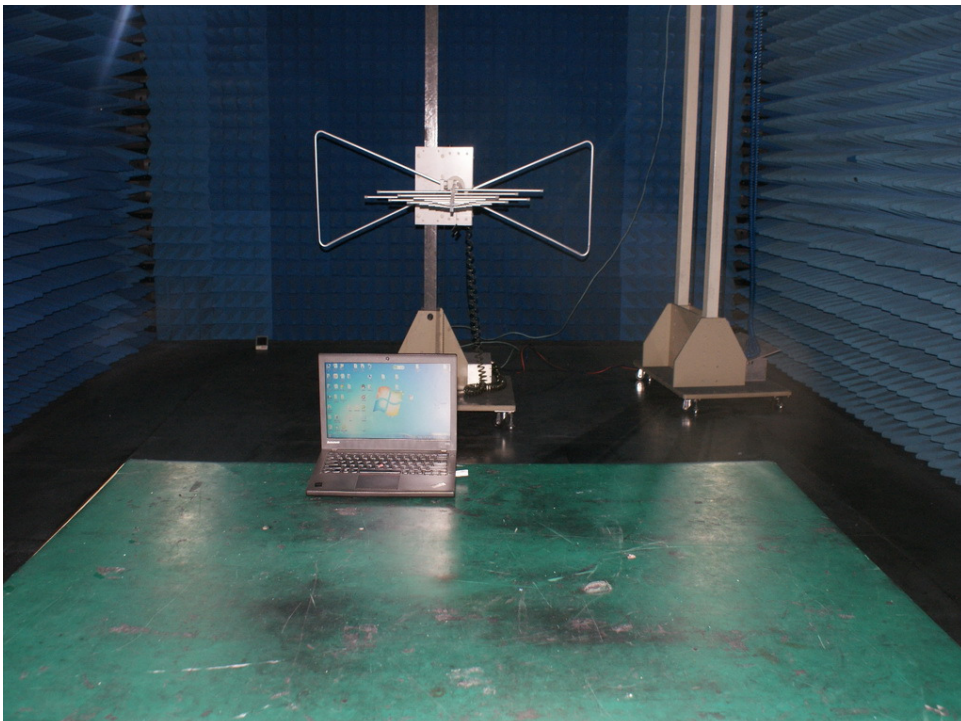
Photograph 4: Set-up for Spurious Emissions (18GHz-26GHz)



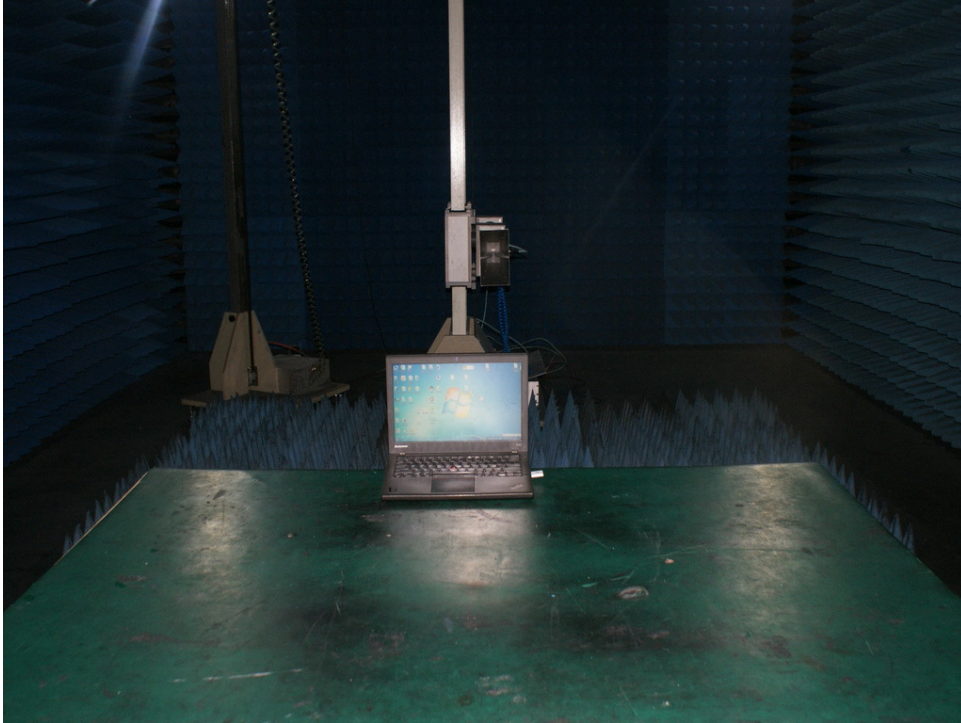
Photograph 5: Set-up for Conducted Emissions



Photograph 6: Set-up for Radiated Emissions, below 1GHz



Photograph 7: Set-up for Radiated Emissions, above 1GHz



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Figure 1: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz),

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Bluetooth USB Dongle M/N:iBKS-USB
Manufacturer: Accent
Operating Condition: TX 2402MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 5V
Comment: X
Start of Test: 2016-11-21 /

SCAN TABLE: "LFRE Fin"

Short Description:				_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	

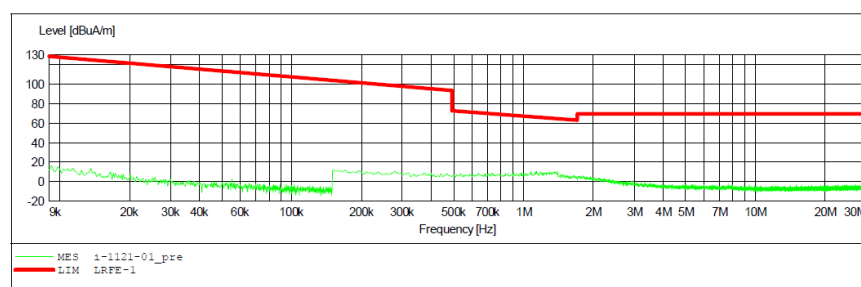


Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Bluetooth USB Dongle M/N:iBKS-USB
Manufacturer: Accent
Operating Condition: TX 2402MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 5V
Comment: Y
Start of Test: 2016-11-21 /

SCAN TABLE: "LFRE Fin"

Short Description:				_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	

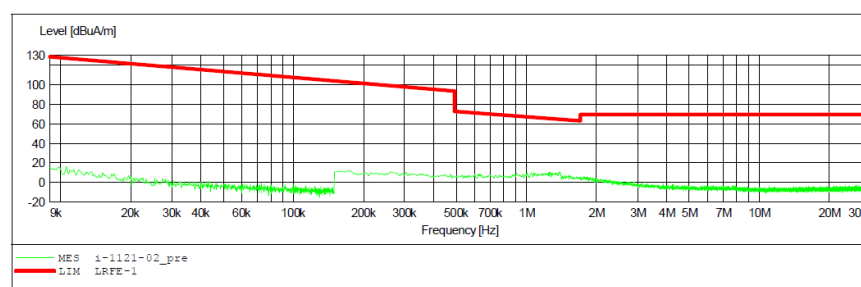


Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz)



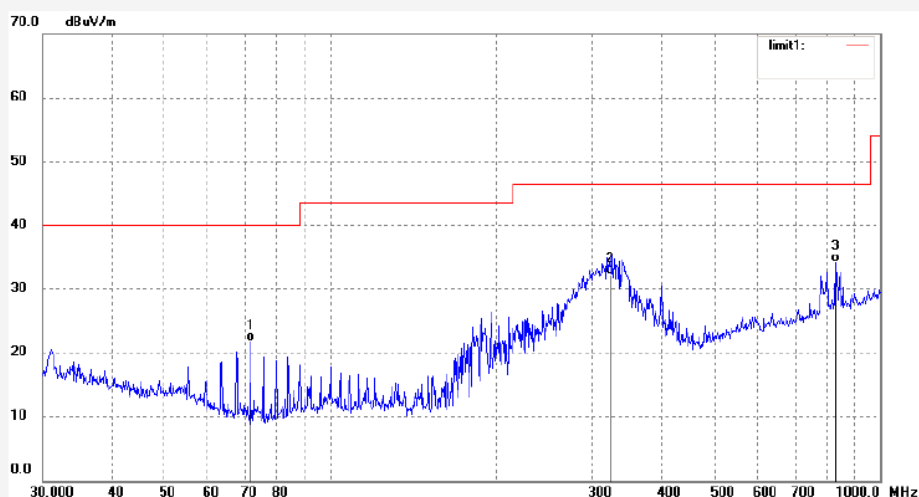
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3643
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: TX 2402MHz
Model: iBKS-USB
Manufacturer: Accent

Polarization: Horizontal
Power Source: DC 5V
Date: 16/09/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.5806	39.16	-17.31	21.85	40.00	-18.15	QP			
2	323.3204	41.88	-9.61	32.27	46.40	-14.13	QP			
3	830.4002	34.71	-0.46	34.25	46.40	-12.15	QP			

Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3644

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2402MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Vertical

Power Source: DC 5V

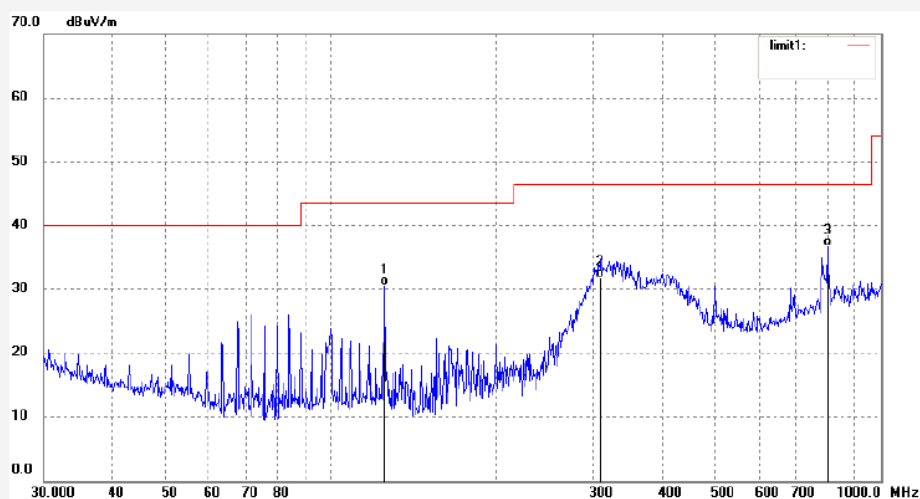
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	125.0066	45.30	-14.73	30.57	43.50	-12.93	QP			
2	308.9125	41.75	-10.05	31.70	46.40	-14.70	QP			
3	798.9796	37.72	-0.98	36.74	46.40	-9.66	QP			

Figure 5: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel: +86-0755-26503290
Fax: +86-0755-26503396

Job No.: Igwade #3627

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2402MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Horizontal

Power Source: DC 5V

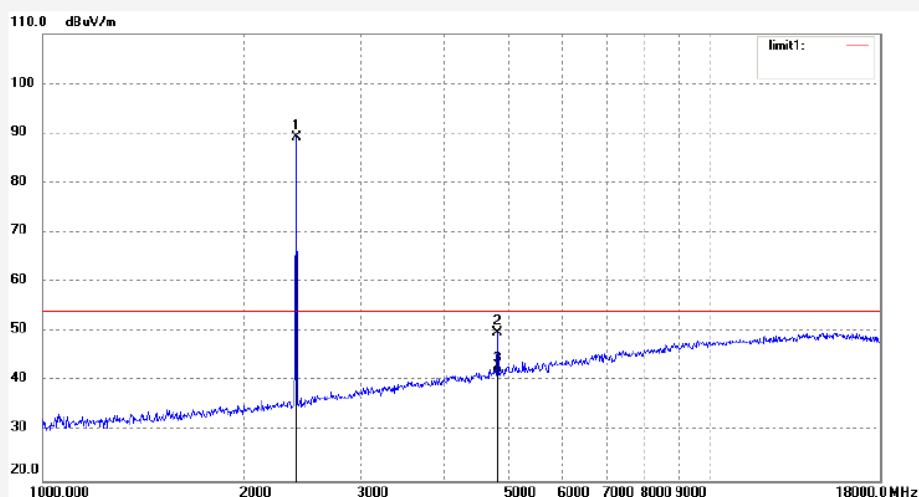
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	96.58	-7.45	89.13	/	/	peak			
2	4804.026	50.20	-0.30	49.90	74.00	-24.10	peak			
3	4804.026	41.87	-0.30	41.57	54.00	-12.43	AVG			

Figure 6: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz)



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

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3628

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2402MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Vertical

Power Source: DC 5V

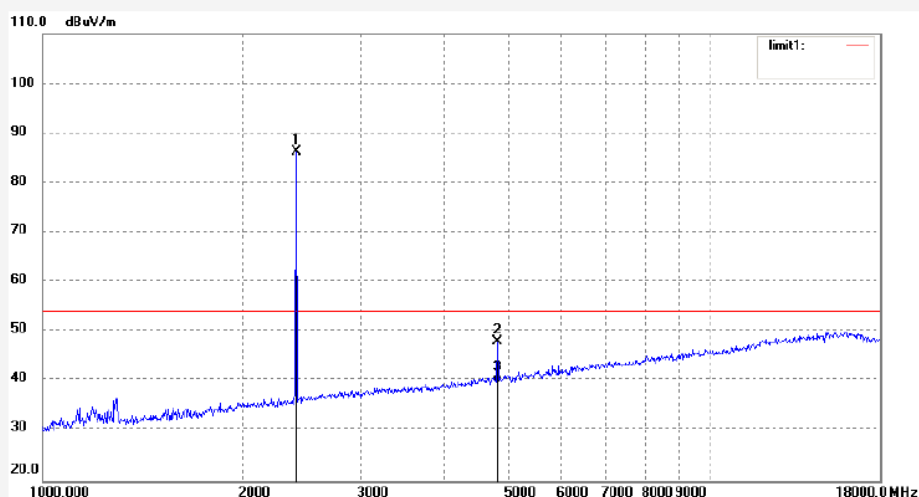
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	93.79	-7.45	86.34	/	/	peak			
2	4804.025	48.27	-0.30	47.97	74.00	-26.03	peak			
3	4804.025	39.95	-0.30	39.65	54.00	-14.35	AVG			

Figure 7: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz –25GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3638

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2402MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Horizontal

Power Source: DC 5V

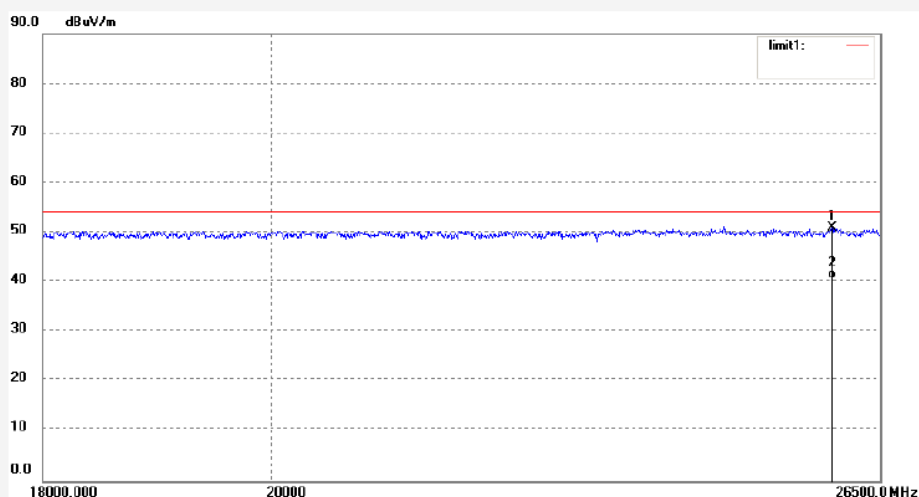
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25922.172	34.48	16.50	50.98	74.00	-23.02	peak			
2	25922.172	24.17	16.50	40.67	54.00	-13.33	AVG			

Figure 8: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 25GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3637

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2402MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Vertical

Power Source: DC 5V

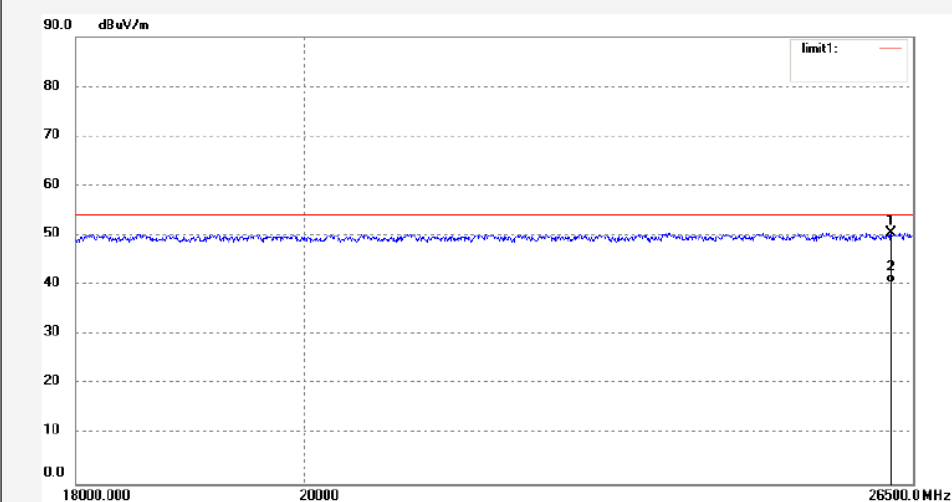
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26234.849	33.42	17.08	50.50	74.00	-23.50	peak			
2	26234.849	23.29	17.08	40.37	54.00	-13.63	AVG			

Figure 9: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Bluetooth USB Dongle M/N:iBKS-USB
Manufacturer: Accent
Operating Condition: TX 2440MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 5V
Comment: X
Start of Test: 2016-11-21 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

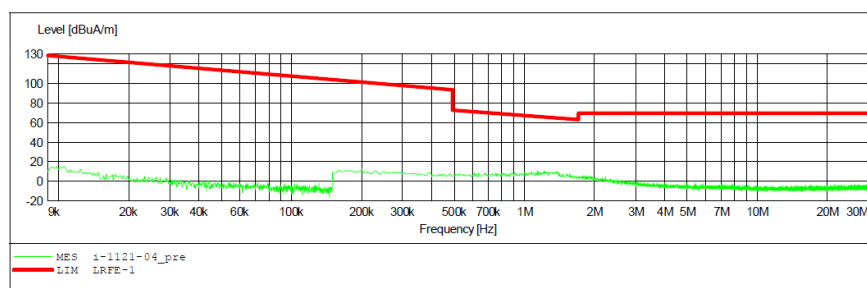


Figure 10: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Bluetooth USB Dongle M/N:iBKS-USB
Manufacturer: Accent
Operating Condition: TX 2440MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 5V
Comment: Y
Start of Test: 2016-11-21 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

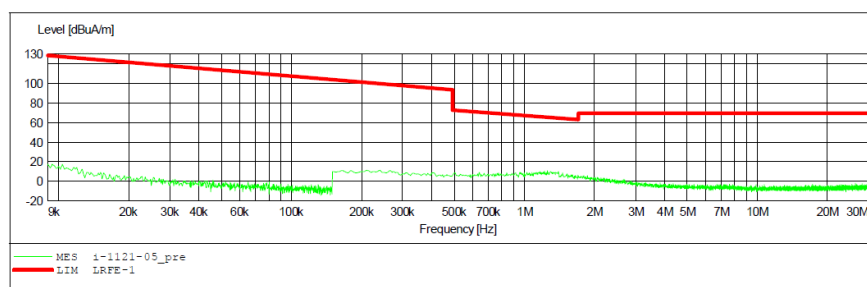


Figure 11: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3646

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2440MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Horizontal

Power Source: DC 5V

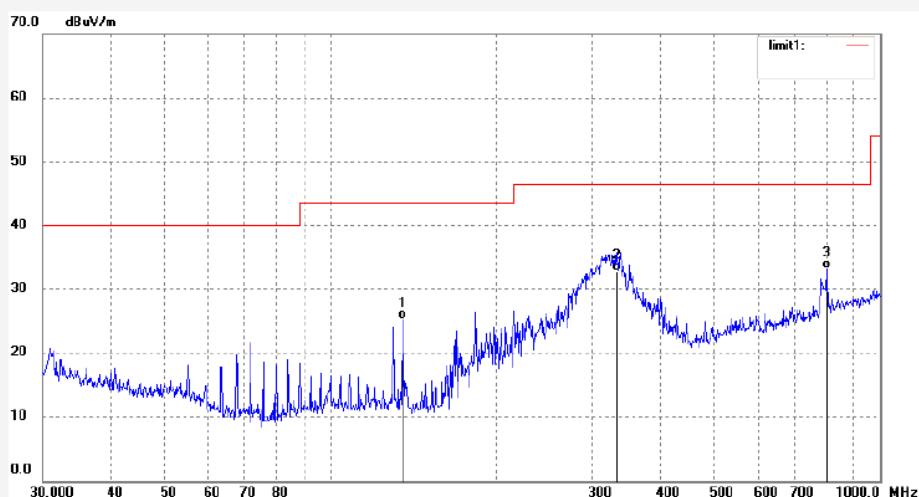
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	135.5062	40.50	-15.19	25.31	43.50	-18.19	QP			
2	332.5187	42.07	-9.30	32.77	46.40	-13.63	QP			
3	798.9796	34.17	-0.98	33.19	46.40	-13.21	QP			

Figure 12: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3645

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2440MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Vertical

Power Source: DC 5V

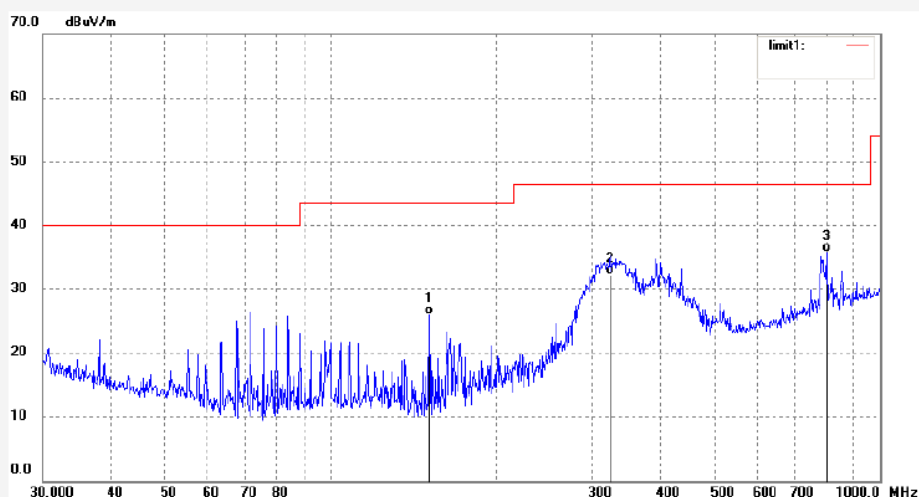
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	151.5971	42.21	-16.14	26.07	43.50	-17.43	QP			
2	323.3204	41.81	-9.61	32.20	46.40	-14.20	QP			
3	798.9796	36.83	-0.98	35.85	46.40	-10.55	QP			

Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz)



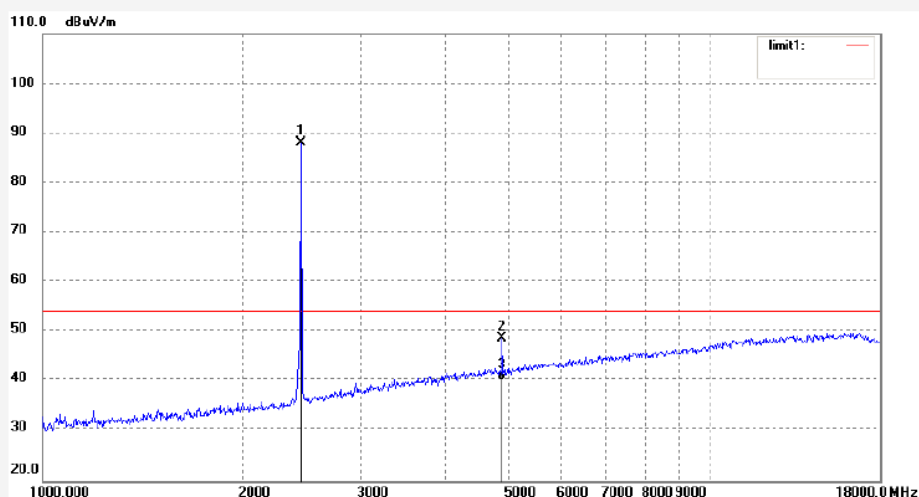
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3631
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: TX 2440MHz
Model: iBKS-USB
Manufacturer: Accent

Polarization: Horizontal
Power Source: DC 5V
Date: 16/09/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	95.50	-7.36	88.14	/	/	peak			
2	4880.024	48.47	0.13	48.60	74.00	-25.40	peak			
3	4880.024	40.09	0.13	40.22	54.00	-13.78	AVG			

Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3632

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2440MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Vertical

Power Source: DC 5V

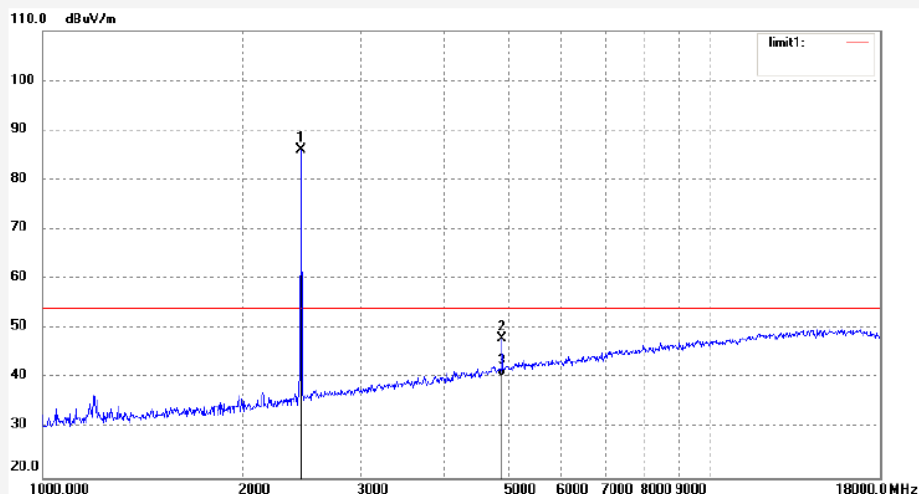
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	93.38	-7.36	86.02	/	/	peak			
2	4880.028	47.94	0.13	48.07	74.00	-25.93	peak			
3	4880.028	40.19	0.13	40.32	54.00	-13.68	AVG			

Figure 15: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 25GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3639

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2440MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Horizontal

Power Source: DC 5V

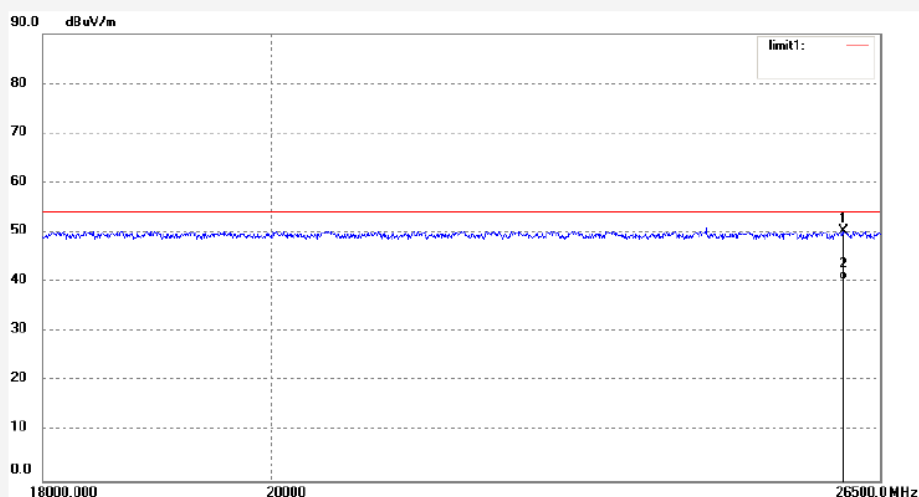
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26052.838	33.70	16.50	50.20	74.00	-23.80	peak			
2	26052.838	23.94	16.50	40.44	54.00	-13.56	AVG			

Figure 16: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 25GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

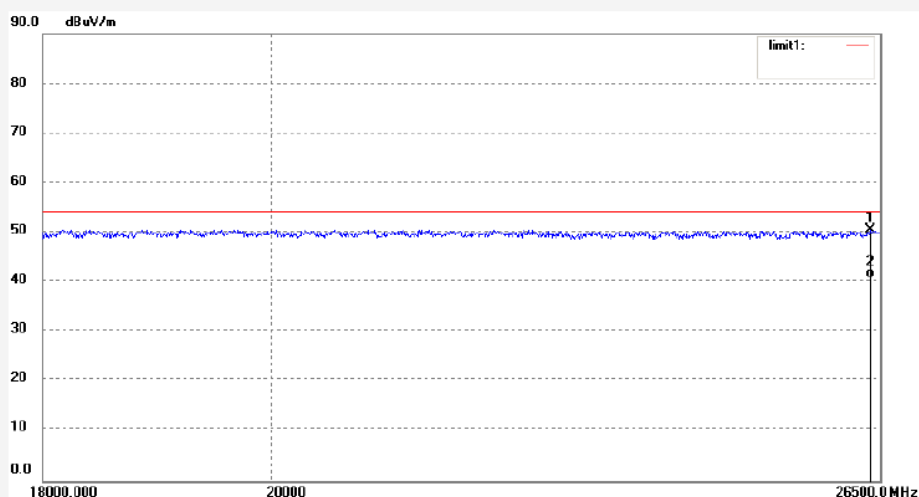
Site: 2# Chamber

Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3640
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: TX 2440MHz
Model: iBKS-USB
Manufacturer: Accent

Polarization: Vertical
Power Source: DC 5V
Date: 16/09/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26387.495	33.49	16.97	50.46	74.00	-23.54	peak			
2	26387.495	23.87	16.97	40.84	54.00	-13.16	AVG			

Figure 17: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Bluetooth USB Dongle M/N:iBKS-USB
Manufacturer: Accent
Operating Condition: TX 2480MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 5V
Comment: X
Start of Test: 2016-11-21 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

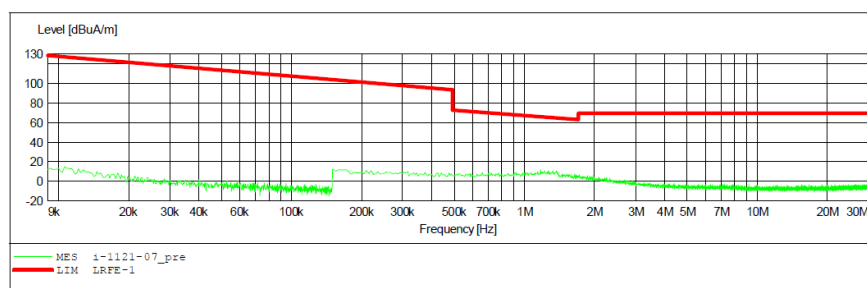


Figure 18: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Bluetooth USB Dongle M/N:iBKS-USB
Manufacturer: Accent
Operating Condition: TX 2480MHz
Test Site: 2# Chamber
Operator: LGWADE
Test Specification: DC 5V
Comment: Y
Start of Test: 2016-11-21 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

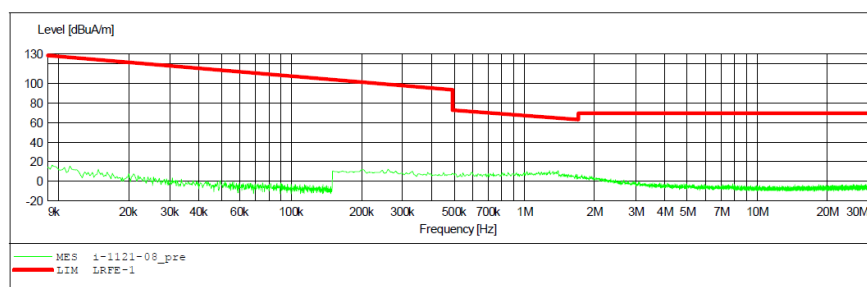


Figure 19: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3647

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2480MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Horizontal

Power Source: DC 5V

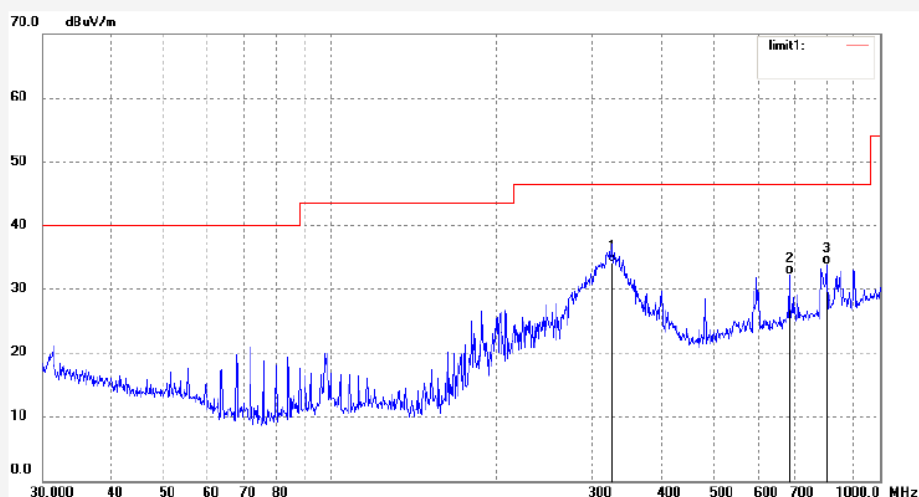
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	325.5957	43.64	-9.51	34.13	46.40	-12.27	QP			
2	684.7454	35.25	-2.97	32.28	46.40	-14.12	QP			
3	798.9796	34.88	-0.98	33.90	46.40	-12.50	QP			

Figure 20: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3648

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2480MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Vertical

Power Source: DC 5V

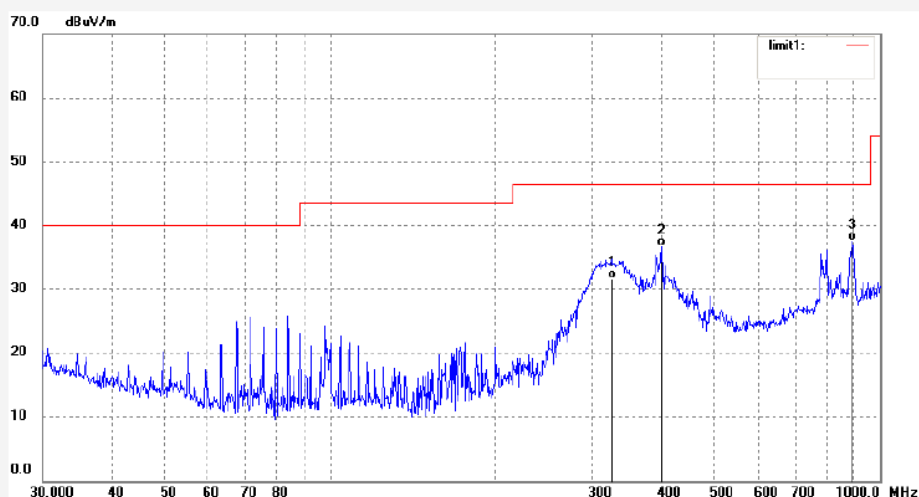
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	325.5957	41.17	-9.51	31.66	46.40	-14.74	QP			
2	400.4318	44.45	-7.81	36.64	46.40	-9.76	QP			
3	890.7278	37.35	0.27	37.62	46.40	-8.78	QP			

Figure 21: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3634

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2480MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Horizontal

Power Source: DC 5V

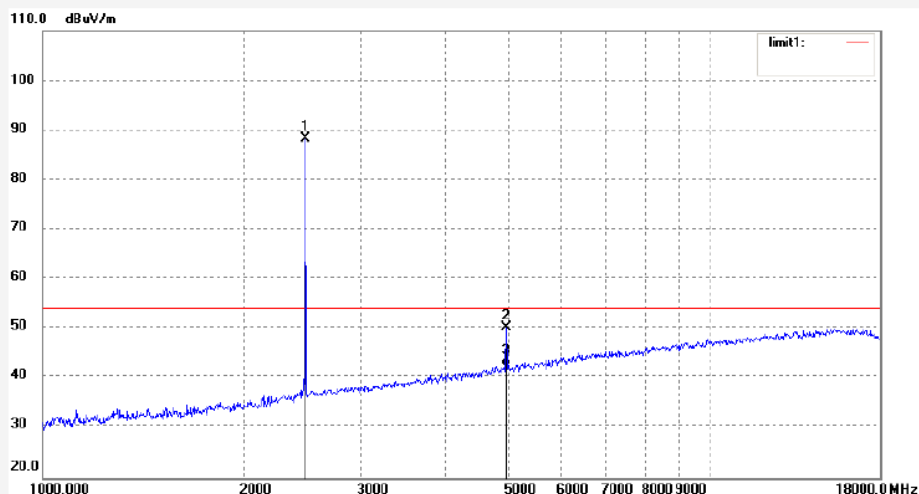
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	95.68	-7.37	88.31	/	/	peak			
2	4960.027	49.64	0.52	50.16	74.00	-23.84	peak			
3	4960.027	41.81	0.52	42.33	54.00	-11.67	AVG			

Figure 22: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz)



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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3633

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2480MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Vertical

Power Source: DC 5V

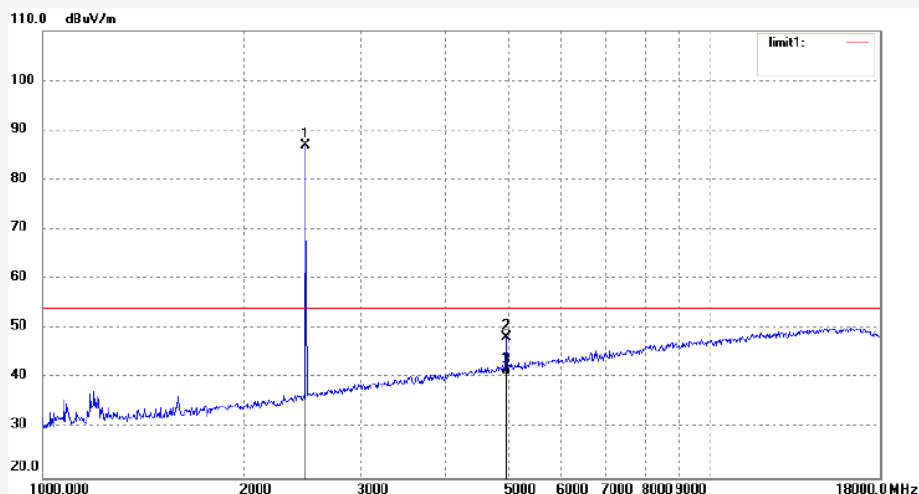
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	94.24	-7.37	86.87	/	/	peak			
2	4960.026	47.71	0.52	48.23	74.00	-25.77	peak			
3	4960.026	40.05	0.52	40.57	54.00	-13.43	AVG			

Figure 23: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz –25GHz)



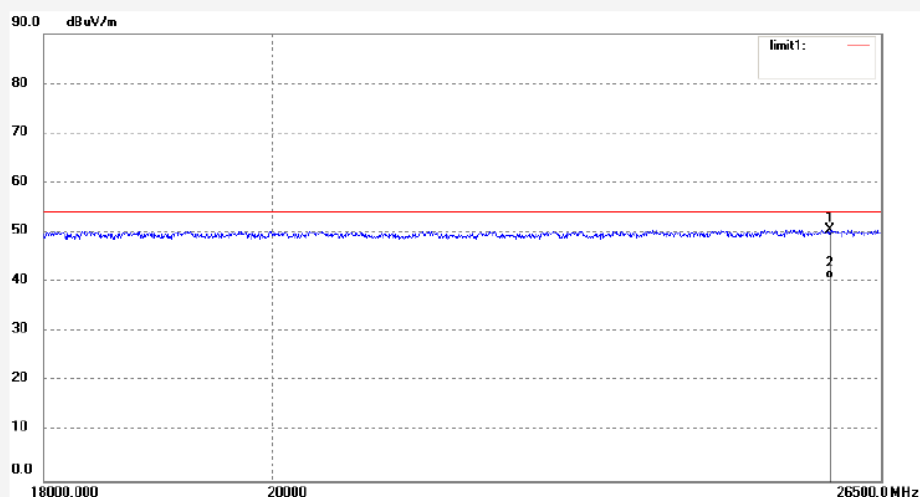
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3642
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: TX 2480MHz
Model: iBKS-USB
Manufacturer: Accent

Polarization: Horizontal
Power Source: DC 5V
Date: 16/09/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25882.099	33.93	16.50	50.43	74.00	-23.57	peak			
2	25882.099	24.08	16.50	40.58	54.00	-13.42	AVG			

Figure 24: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 25GHz)



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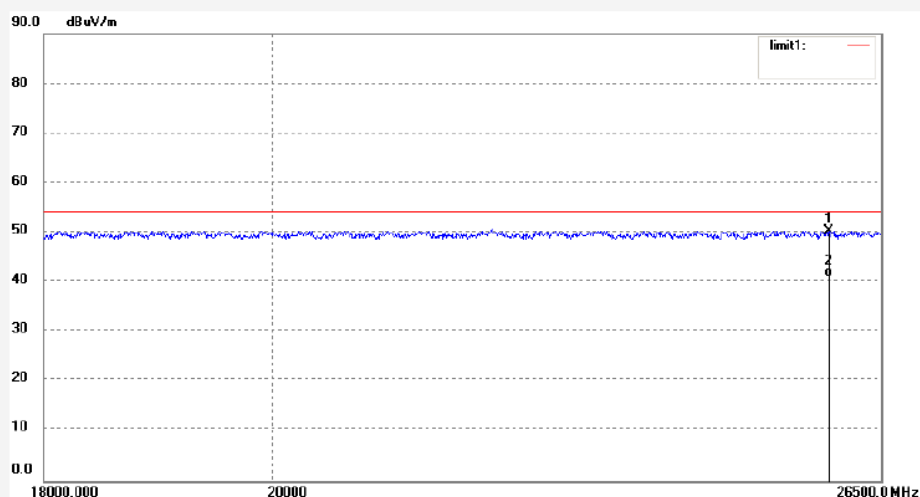
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3641	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth USB Dongle	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: iBKS-USB	
Manufacturer: Accent	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25872.091	32.89	17.32	50.21	74.00	-23.79	peak			
2	25872.091	23.63	17.32	40.95	54.00	-13.05	AVG			

Figure 25: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal



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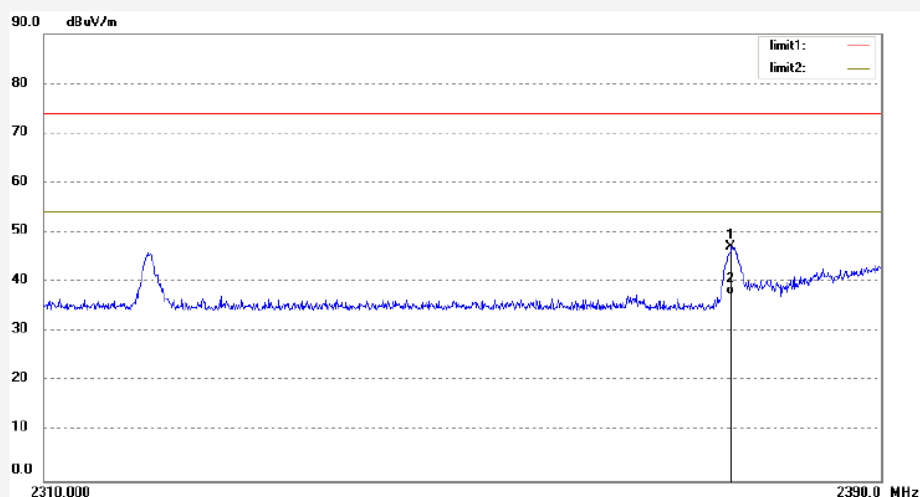
Site: 2# Chamber

Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3630
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: TX 2402MHz
Model: iBKS-USB
Manufacturer: Accent

Polarization: Horizontal
Power Source: DC 5V
Date: 16/09/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2375.520	54.81	-7.62	47.19	74.00	-26.81	peak			
2	2375.520	45.12	-7.62	37.50	54.00	-16.50	AVG			

Figure 26: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical



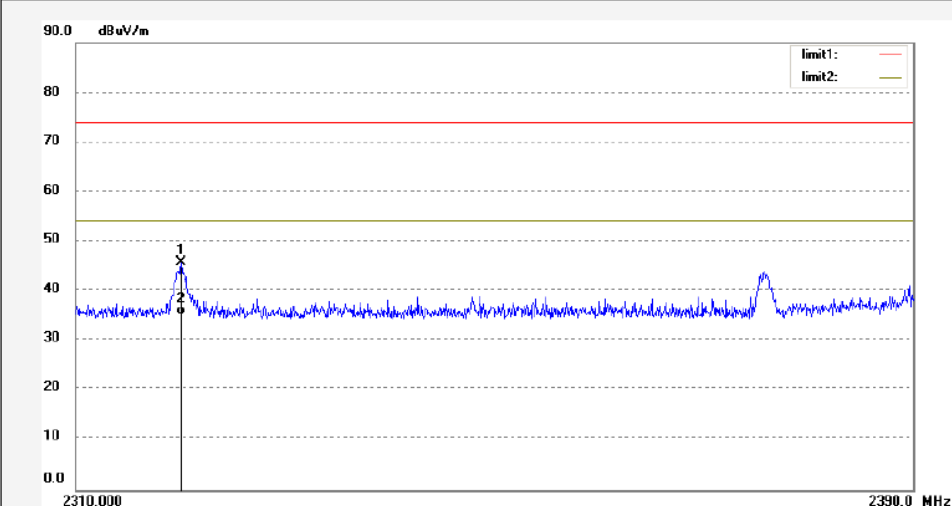
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3629
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: TX 2402MHz
Model: iBKS-USB
Manufacturer: Accent

Polarization: Vertical
Power Source: DC 5V
Date: 16/09/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2320.000	53.62	-7.81	45.81	74.00	-28.19	peak			
2	2320.000	43.04	-7.81	35.23	54.00	-18.77	AVG			

Figure 27: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Igwade #3635

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth USB Dongle

Mode: TX 2480MHz

Model: iBKS-USB

Manufacturer: Accent

Polarization: Horizontal

Power Source: DC 5V

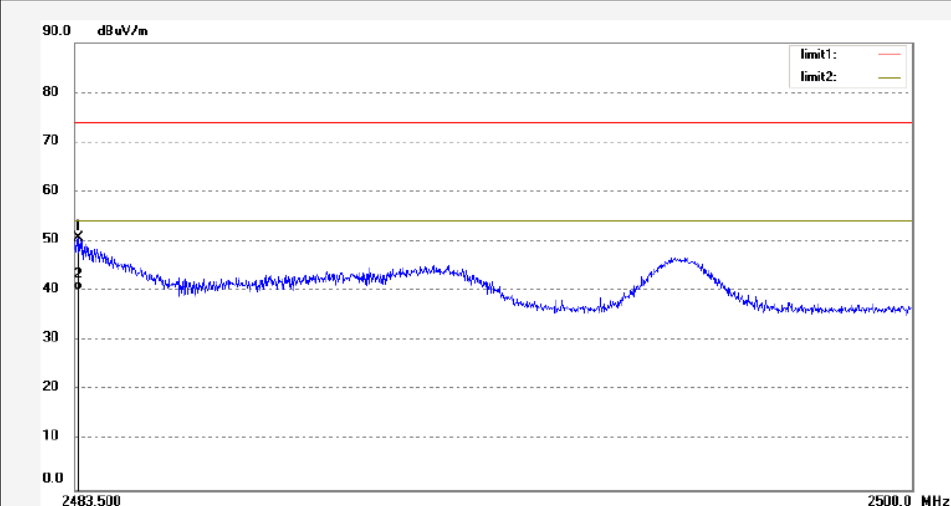
Date: 16/09/21/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.582	58.11	-7.37	50.74	74.00	-23.26	peak			
2	2483.582	47.62	-7.37	40.25	54.00	-13.75	AVG			

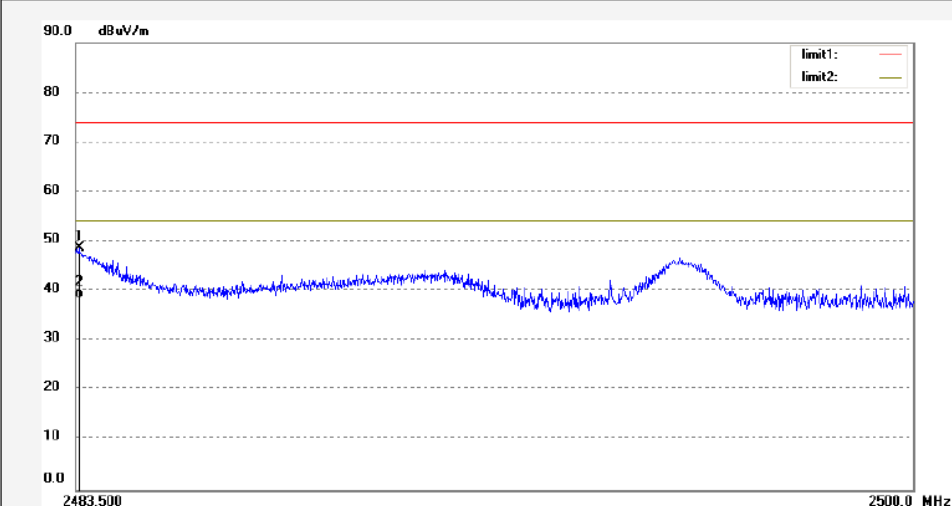
Figure 28: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical



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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Igwade #3636	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 5V
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth USB Dongle	Engineer Signature: LGWADE
Mode: TX 2480MHz	Distance: 3m
Model: iBKS-USB	
Manufacturer: Accent	
Note: Bluetooth 4.0	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.566	56.10	-7.37	48.73	74.00	-25.27	peak			
2	2483.566	45.93	-7.37	38.56	54.00	-15.44	AVG			

Figure 29: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.1

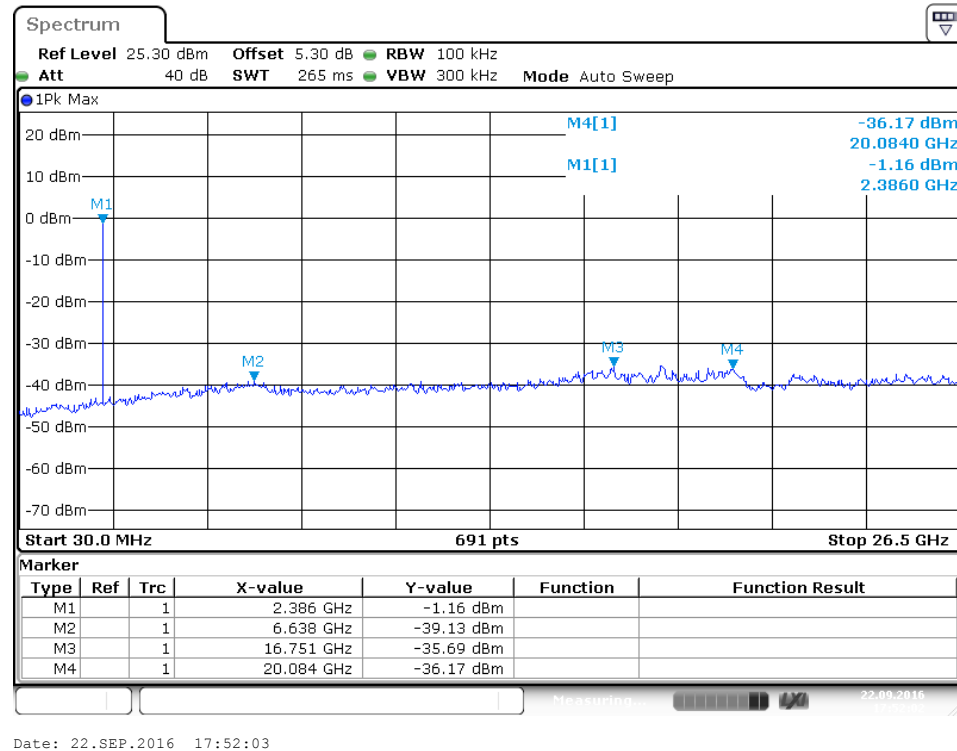


Figure 30: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.2

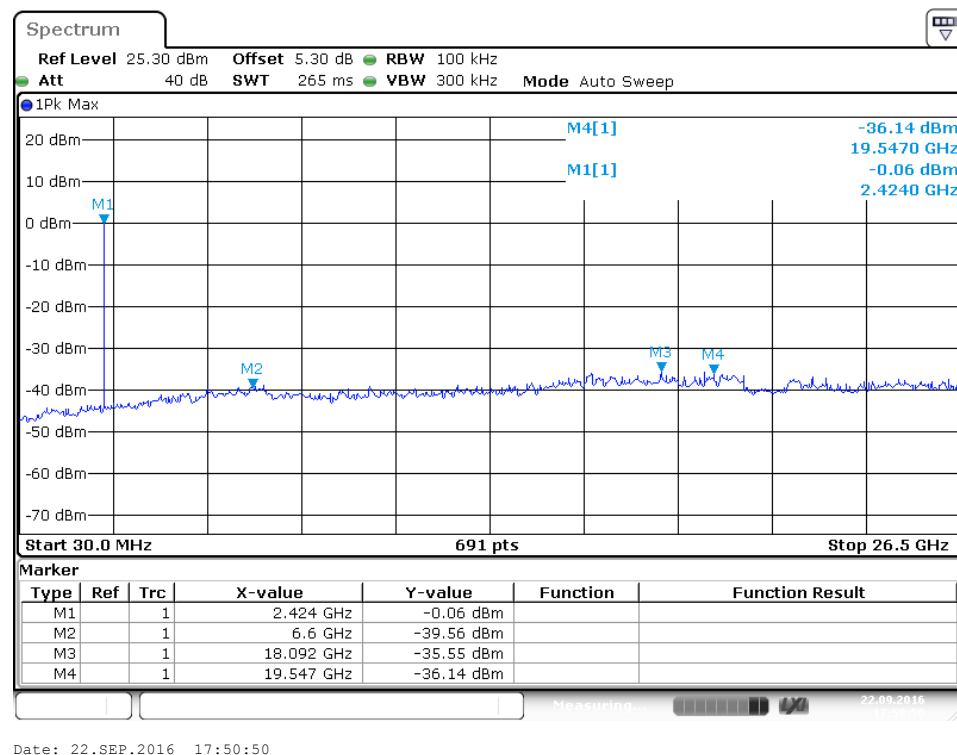


Figure 31: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.3

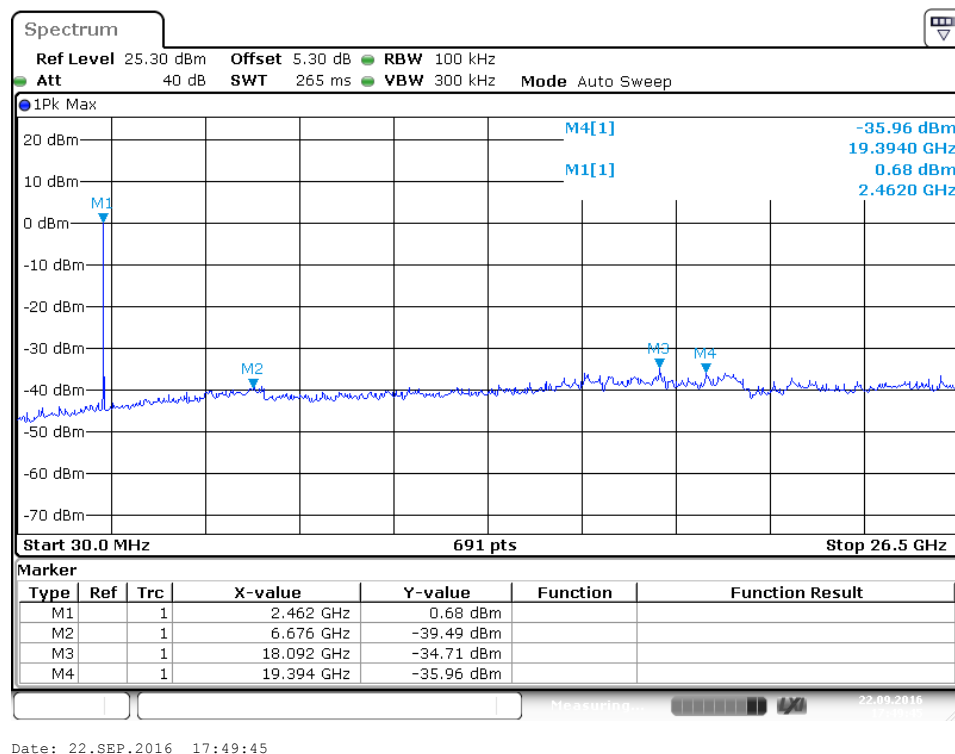


Figure 32: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.1

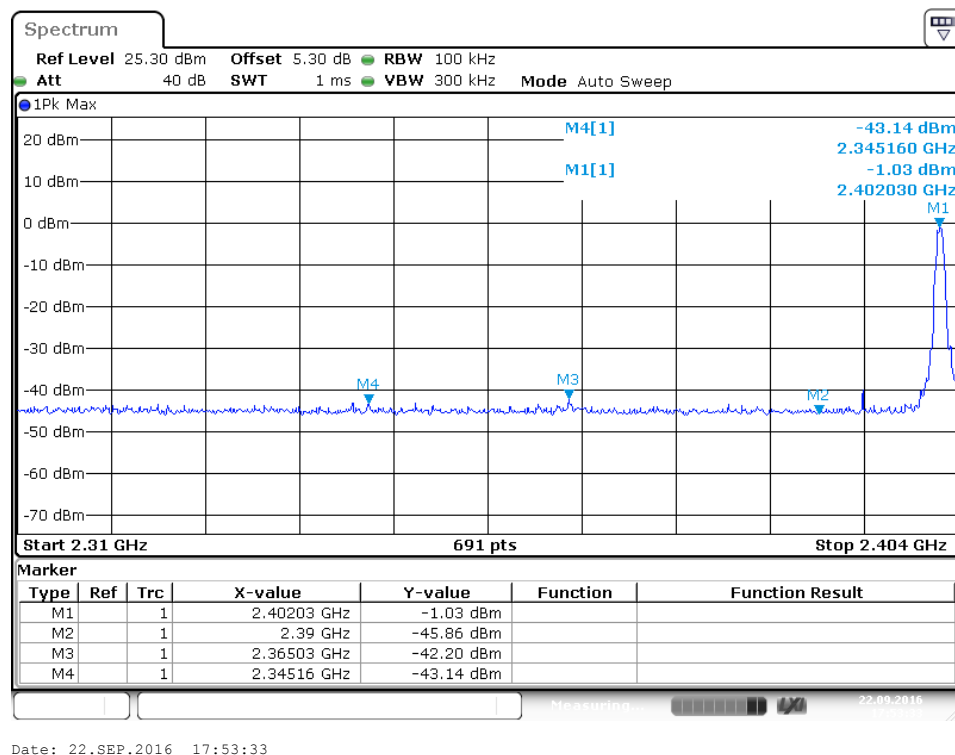
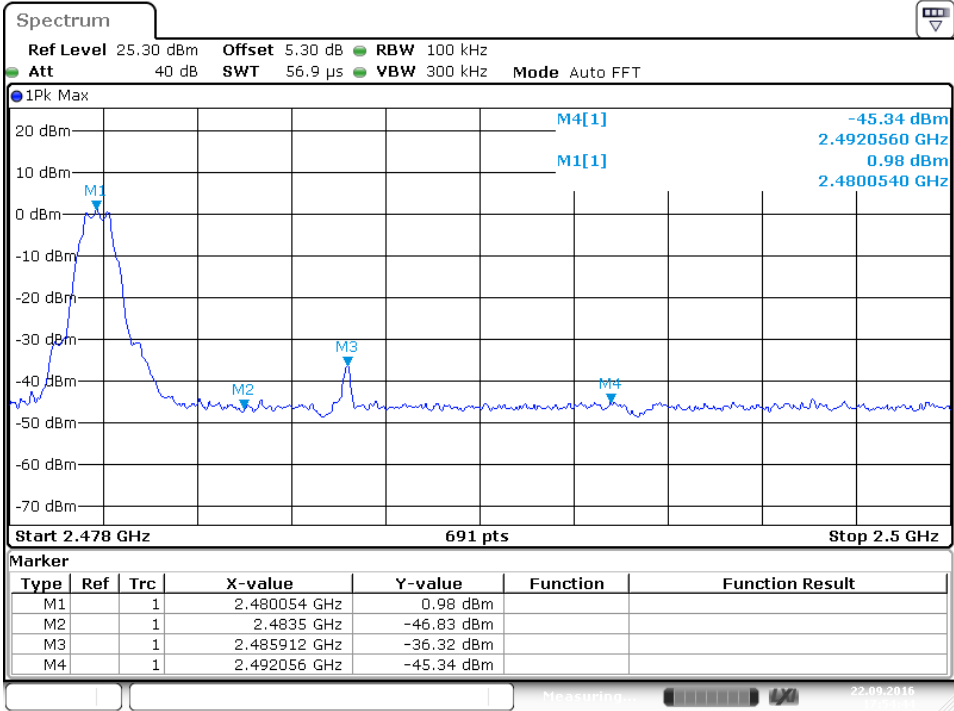


Figure 33: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.3



Date: 22.SEP.2016 17:54:44

Figure 34: Test figure of Conducted emissions, Mode B, line live

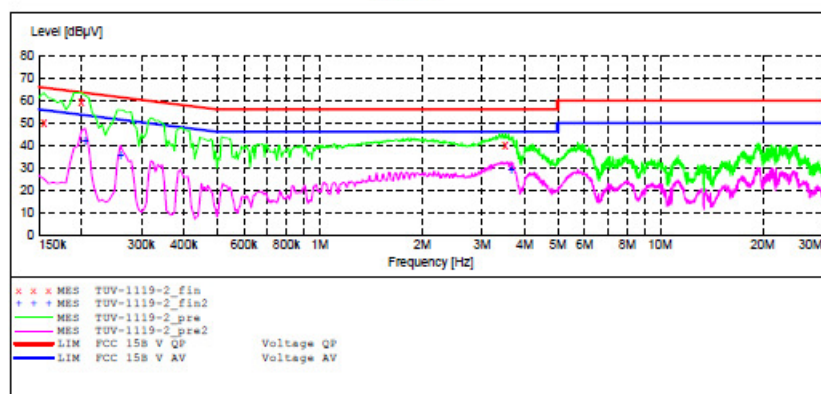
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Bluetooth USB Dongle M/N:iBKS-USB
Manufacturer: Accent
Operating Condition: TX
Test Site: 1#Shielding Room
Operator: LGWADE
Test Specification: L 120V/60Hz
Comment: Mains Port
Start of Test: 11/19/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB STD_VTERM2 1.70
Start Stop Step Detector Meas. IF Transducer
Frequency Frequency Width Time Bandw.
9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
Average
150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
Average



MEASUREMENT RESULT: "TUV-1119-2_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.155000	50.00	10.5	66	15.7	QP	L1	GND
0.200000	59.60	10.5	64	4.0	QP	L1	GND
3.510000	39.90	11.1	56	16.1	QP	L1	GND

MEASUREMENT RESULT: "TUV-1119-2_fin2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.205000	42.00	10.5	53	11.4	AV	L1	GND
0.260000	35.60	10.6	51	15.8	AV	L1	GND
3.650000	29.20	11.1	46	16.8	AV	L1	GND

Figure 35: Test figure of Conducted emissions, Mode B, line neutral

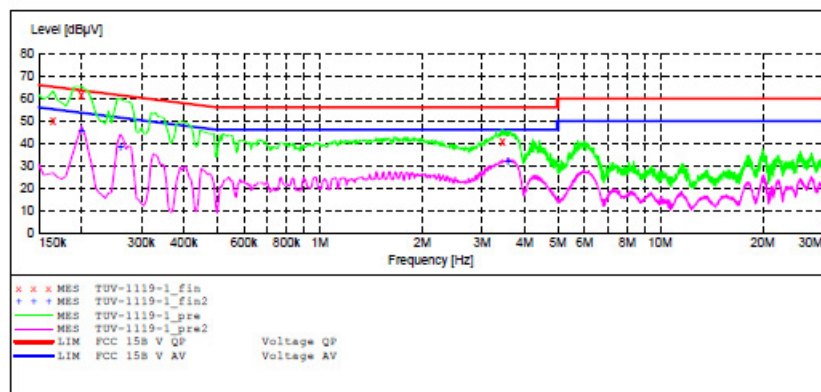
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Bluetooth USB Dongle M/N:iBKS-USB
Manufacturer: Accent
Operating Condition: TX
Test Site: 1#Shielding Room
Operator: LGWADE
Test Specification: N 120V/60Hz
Comment: Mains Port
Start of Test: 11/19/2016 /

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB STD_VTERM2 1.70
Start Stop Step Detector Meas. IF Transducer
Frequency Frequency Width Time Bandw.
9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
Average
150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
Average



MEASUREMENT RESULT: "TUV-1119-1_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.165000	49.80	10.5	65	15.4	QP	N	GND
0.200000	60.20	10.5	64	3.4	QP	N	GND
3.440000	40.70	11.1	56	15.3	QP	N	GND

MEASUREMENT RESULT: "TUV-1119-1_fin2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.200000	46.00	10.5	54	7.6	AV	N	GND
0.260000	38.30	10.6	51	13.1	AV	N	GND
3.570000	32.10	11.1	46	13.9	AV	N	GND

Figure 36: Test figure of Radiated emissions, Mode B, Below 1GHz, Horizontal



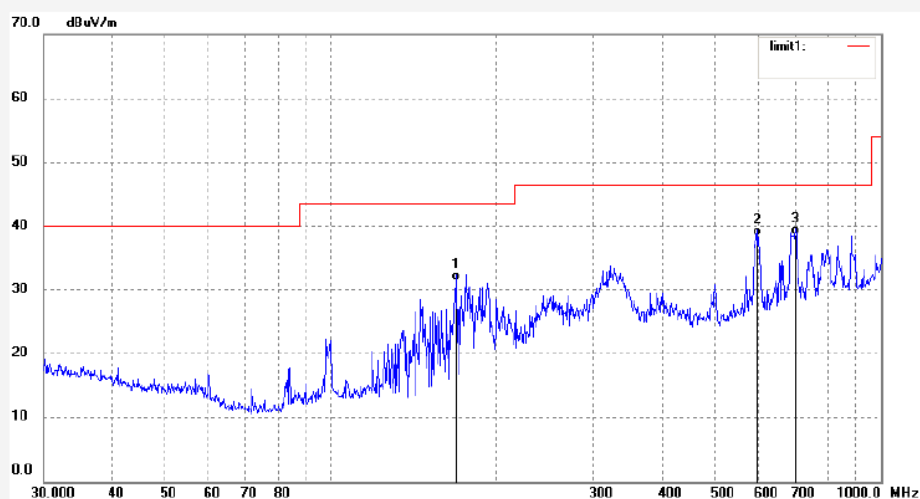
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TUV2015 #3989
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: On
Model: iBKS-USB
Manufacturer: Accent

Polarization: Horizontal
Power Source: DC 5V
Date: 16/11/22/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	169.0054	45.20	-13.70	31.50	43.50	-12.00	QP			
2	597.2233	40.84	-2.43	38.41	46.40	-7.99	QP			
3	699.3046	39.65	-1.08	38.57	46.40	-7.83	QP			

Figure 37: Test figure of Radiated emissions, Mode B, Below 1GHz, Vertical



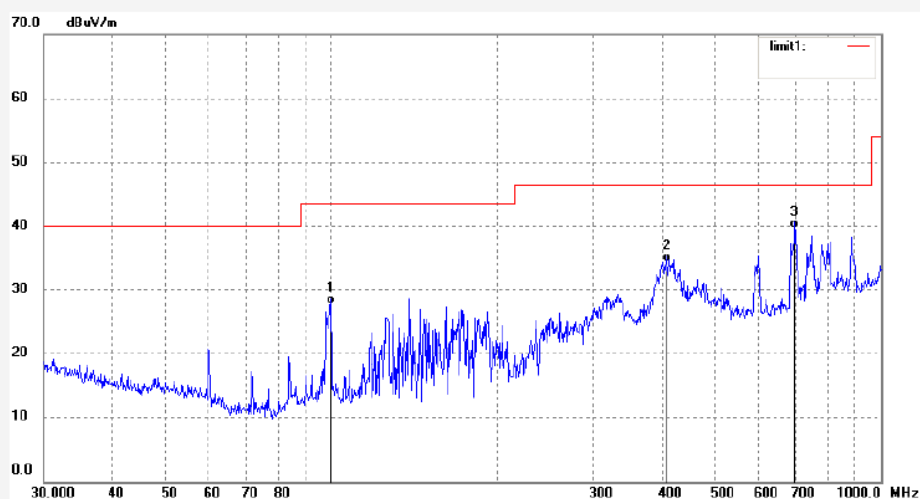
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TUV2015 #3990
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: On
Model: iBKS-USB
Manufacturer: Accent

Polarization: Vertical
Power Source: DC 5V
Date: 16/11/22/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	99.8777	40.79	-13.09	27.70	43.50	-15.80	QP			
2	407.5144	40.57	-6.26	34.31	46.40	-12.09	QP			
3	696.8567	40.85	-1.15	39.70	46.40	-6.70	QP			

Figure 38: Test figure of Radiated emissions, Mode B, Above 1GHz, Horizontal



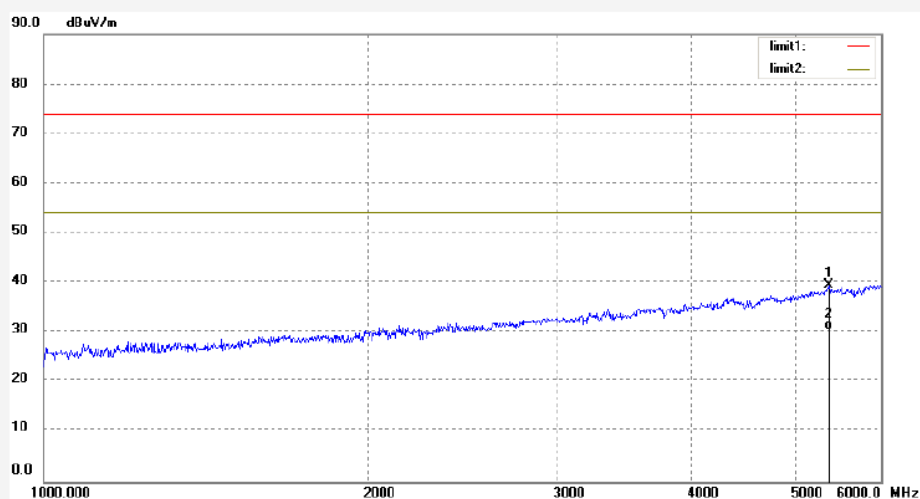
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TUV2015 #3991
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: On
Model: iBKS-USB
Manufacturer: Accent

Polarization: Horizontal
Power Source: DC 5V
Date: 16/11/22/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5369.154	32.62	6.85	39.47	74.00	-34.53	peak			
2	5369.154	23.60	6.85	30.45	54.00	-23.55	AVG			

Figure 39: Test figure of Radiated emissions, Mode B, Above 1GHz, Vertical



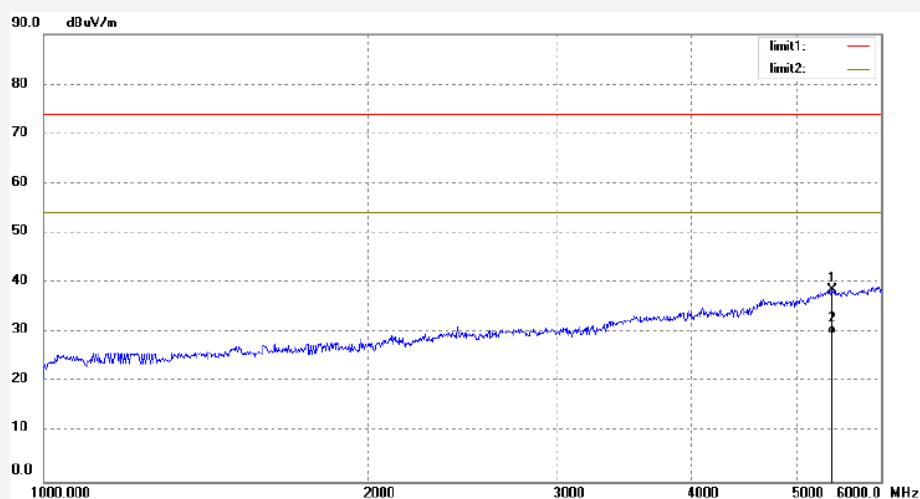
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TUV2015 #3992
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Bluetooth USB Dongle
Mode: On
Model: iBKS-USB
Manufacturer: Accent

Polarization: Vertical
Power Source: DC 5V
Date: 16/11/22/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5407.773	31.65	6.88	38.53	74.00	-35.47	peak			
2	5407.773	22.68	6.88	29.56	54.00	-24.44	AVG			