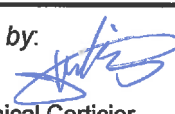


Prüfbericht-Nr.: <i>Test Report No.:</i>	17050207 001	Auftrags-Nr.: <i>Order No.:</i>	164031505	Seite 1 von 54 <i>Page 1 of 54</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	13.05.2015	
Auftraggeber: <i>Client:</i>	Accent Advanced Systems SLU, Bergueda 43 Local 18 Castellar del Valles 08211 Spain			
Prüfgegenstand: <i>Test item:</i>	Bluetooth Low Energy Advertising Device			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	iBKS105			
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 v05r02			
Wareneingangsdatum: <i>Date of receipt:</i>	22.05.2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	1500919, 1500920, 1500921			
Prüfzeitraum: <i>Testing period:</i>	24.05.2015 - 30.05.2015			
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:  07.07.2015 Owen Tian/Senior Project Manager Datum Name / Stellung Unterschrift Date Name / Position Signature		kontrolliert von / reviewed by:  07.07.2015 Sam Lin/Technical Certifier Datum Name / Stellung Unterschrift Date Name / Position Signature		
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* 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. <i>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.</i>				

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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 PEAK OUTPUT POWER

RESULT: Pass

5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHz BANDWIDTH

RESULT: Pass

5.1.5 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.6 SPURIOUS EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

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

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
Transmitter spurious emissions & Receiver spurious emissions				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Test Receiver	Rohde & Schwarz	ESCS30	100307	2016-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2016-01-14
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2016-01-14
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2016-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2016-01-09
50 Coaxial Switch	Anritsu Corp	MP59B	620050647 4	2016-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2016-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2016-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2016-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2016-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2016-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2016-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2016-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2016-01-09

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, 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

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	$< \pm 0.60 \text{ dB}$
Radiated emission of transmitter, valid up to 26.5 GHz	$< \pm 4.42 \text{ dB}$
Conducted Emission	$< \pm 2.23 \text{ dB}$
Radiated Emission	$< \pm 4.42 \text{ dB}$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, 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.
 For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification

Technical Specification	Value
Kind of Equipment	Bluetooth Low Energy Advertising Device
Type Designation	iBKS105
FCC ID	2ABTTIBKS105
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	-25~+75°C
Operation Voltage	DC 1.8 – 3.6V (via built in battery)
Modulation	GFSK
Bluetooth version	4.0, Single Mode
Antenna Gain	5.3dBi

Table 4: RF channel and frequency of Bluetooth LE mode

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth LE mode
 - 1. Transmitting
 - a. Low channel
 - b. Middle channel
 - c. High channel
 - 2. Receiving
- B. Standby
- 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 |

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: 2003.

4.3 Special Accessories and Auxiliary Equipment

None.

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

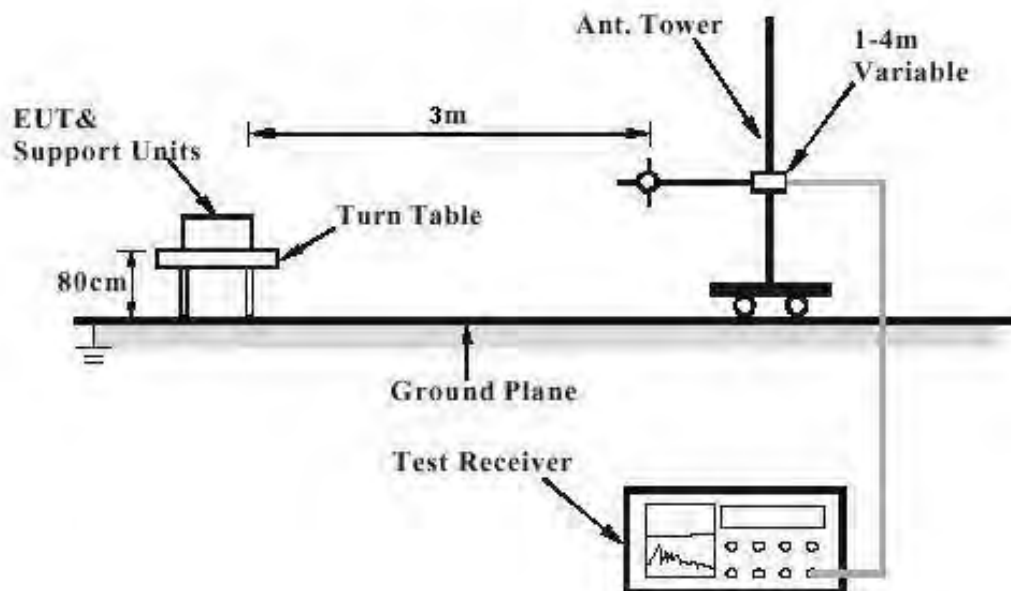
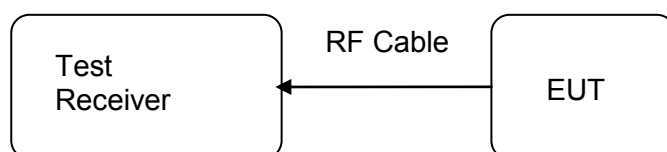


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

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

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.

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5.1.2 Peak Output Power**RESULT:****Pass**

Test date : 2015-05-24
Test standard : FCC Part 15.247(b)(3)
Basic standard : ANSI C63.4: 2003
Clause 9.1 of KDB 558074 v03r01
Limit : 1W
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1
Ambient temperature : 24°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

Table 5: Test result of Peak Output Power

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	-1.95	30
Middle Channel	2440	-1.09	30
High Channel	2480	-0.69	30

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5.1.3 6dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2015-05-24
Test standard : FCC Part 15.247(a)(2)
Basic standard : ANSI C63.4: 2003
Clause 8 of KDB 558074 v03r01
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1
Ambient temperature : 24°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

Table 6: Test result of 6dB & 99% Bandwidth

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.686	1.051
Mid Channel	2440	0.690	1.046
High Channel	2480	0.686	1.051

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5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth**RESULT:****Pass**

Date of testing	:	2015-05-24
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.4: 2003
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shield room

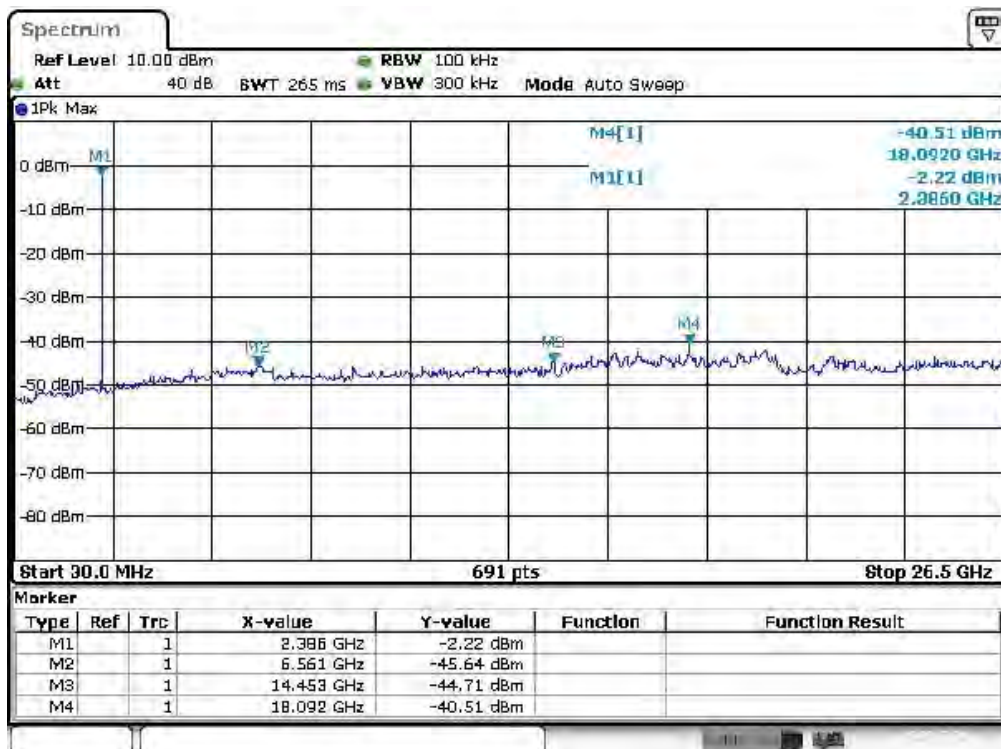
Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	24°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

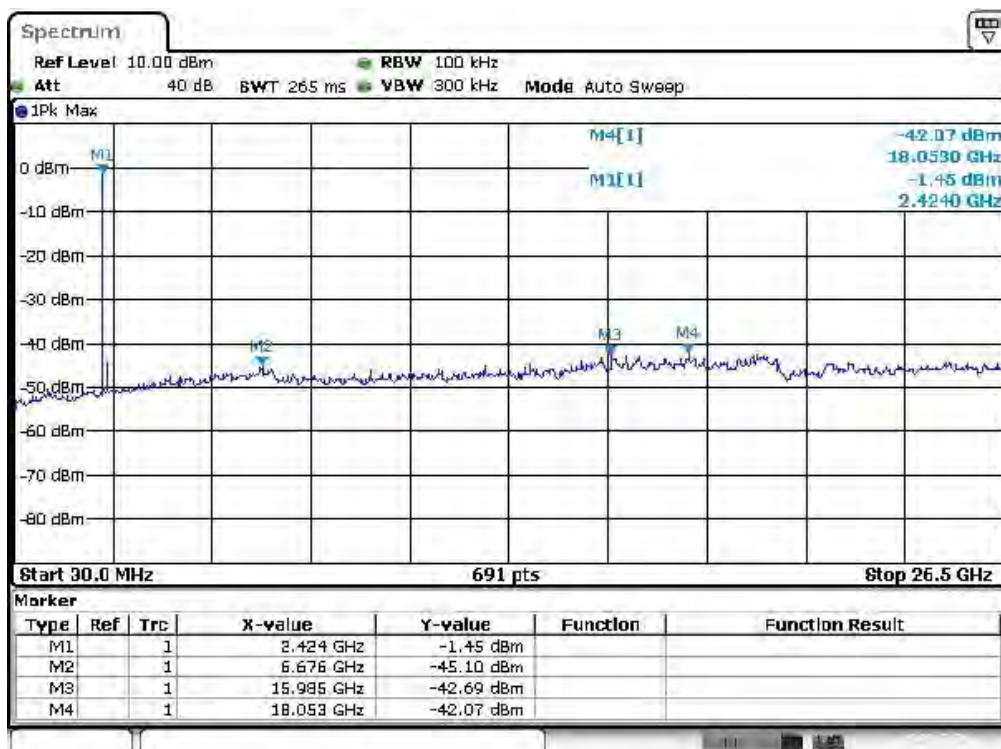
For details refer to following test plot.

Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth

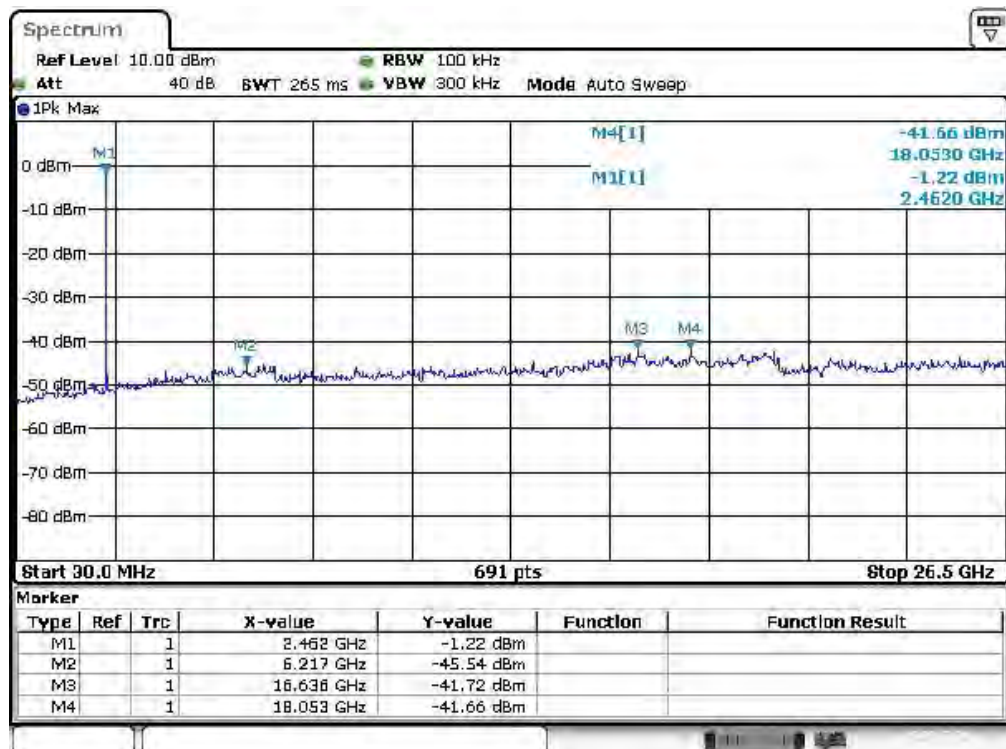
Low Channel

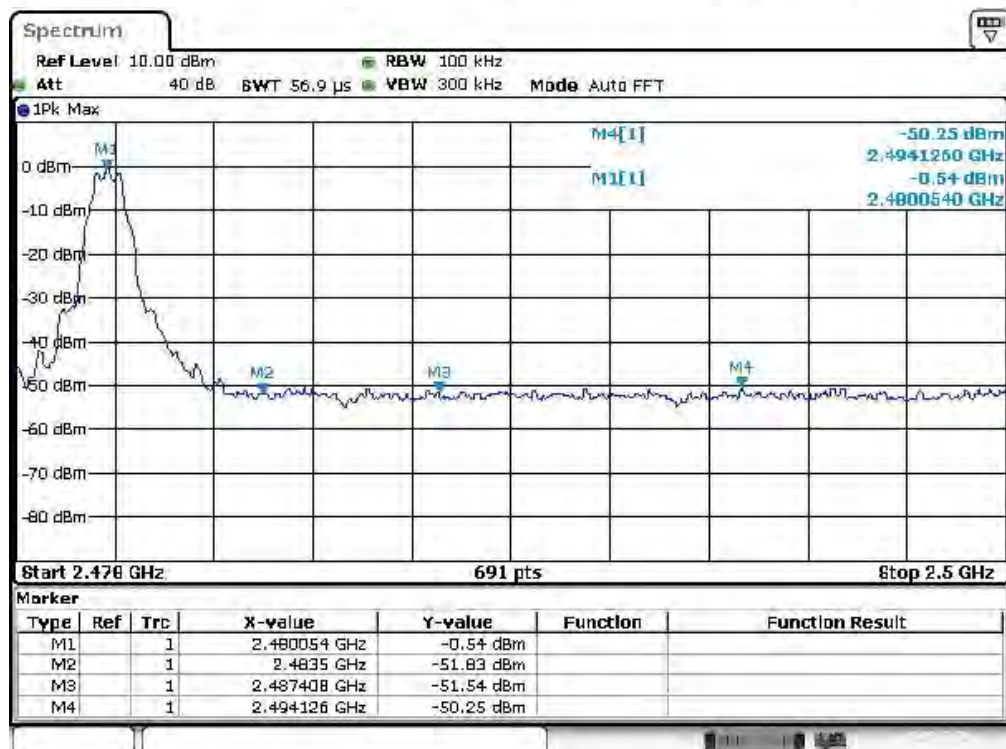
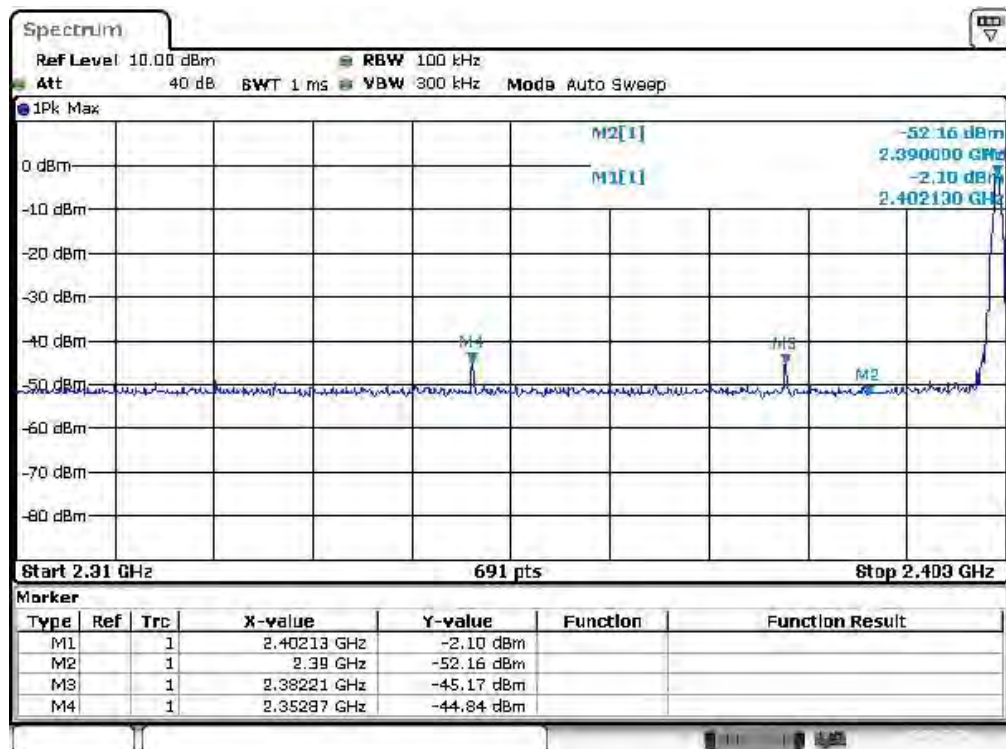


Middle Channel



High Channel



Band Edge


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5.1.5 Power spectral density**RESULT:****Pass**

Date of testing : 2015-05-24
Test standard : FCC part 15.247(e)
Basic standard : ANSI C63.4: 2003
Clause 10 of KDB 558074 v03r01
Limit : 8dBm/3kHz
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.1
Ambient temperature : 24°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

Table 7: Test result of power spectral density:

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth LE mode	2402	-16.99	8	Pass
	2440	-14.41	8	Pass
	2480	-14.06	8	Pass

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5.1.6 Spurious Emission**RESULT:****Pass**

Date of testing : 2015-05-30
Test standard : FCC part 15.247(d)
Basic standard : ANSI C63.4: 2003
Clause 11 of KDB 558074 v03r01
Limits : FCC part 15.209(a)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.1
Ambient temperature : 23°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

For details refer to following test plot.

Test Plot of Spurious Emission of transmitting

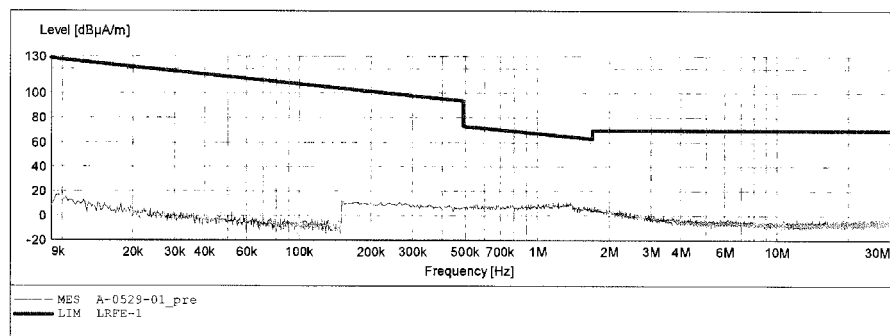
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Bluetooth Low Energy Advertising Device M/N:iBKS105
 Manufacturer: Accent Advanced Systems SLU
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2015-5-29 /

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

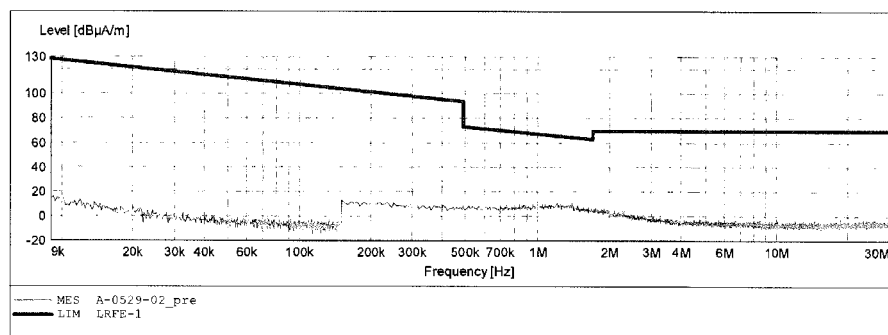


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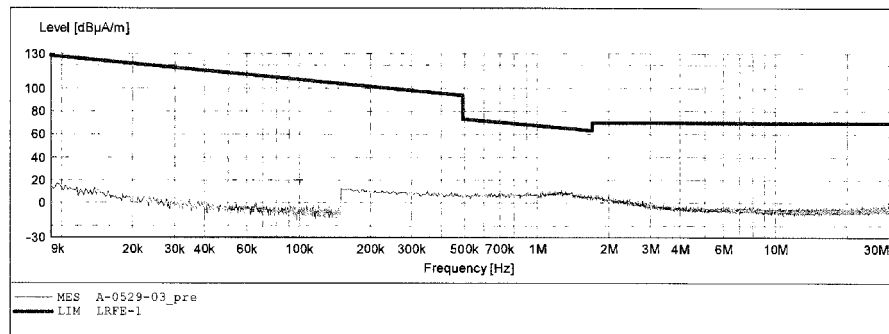


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 Manufacturer: Accent Advanced Systems SLU
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 3V
 Comment: Z
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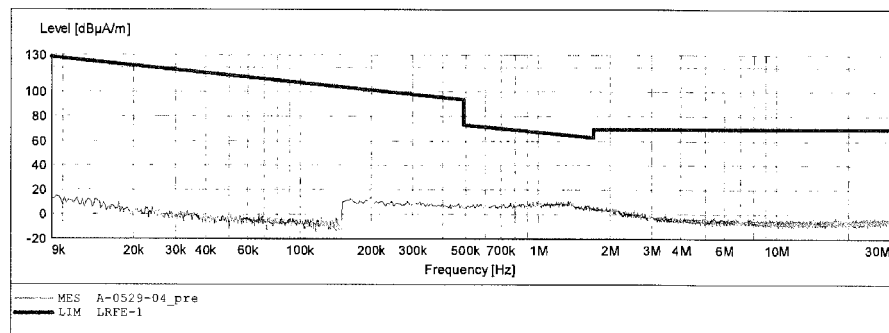
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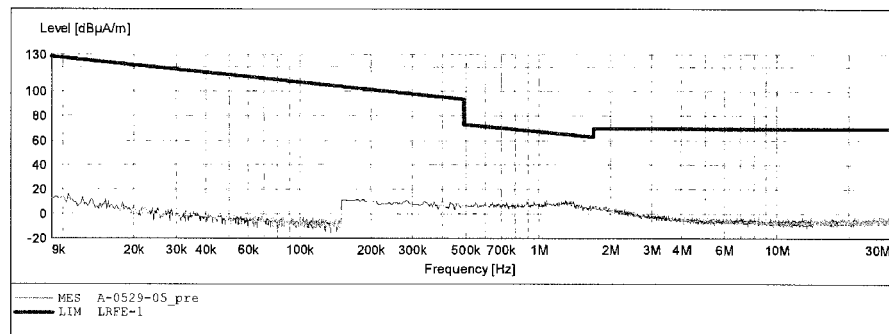


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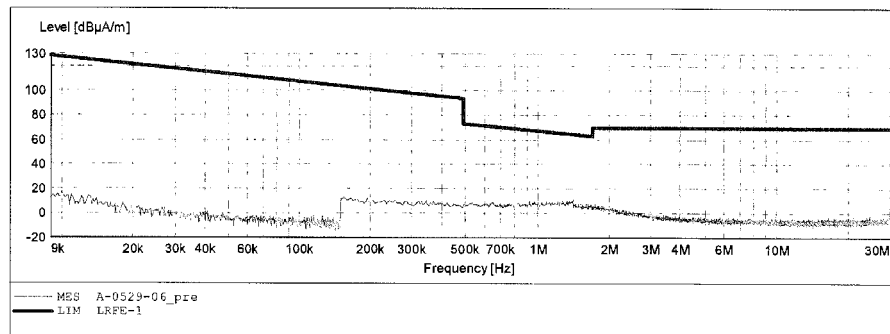
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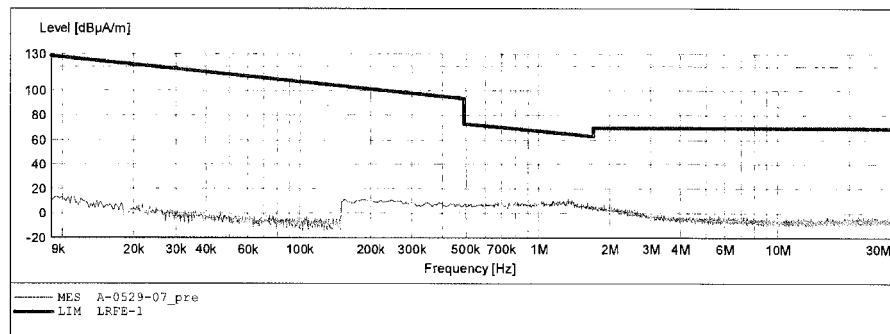
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

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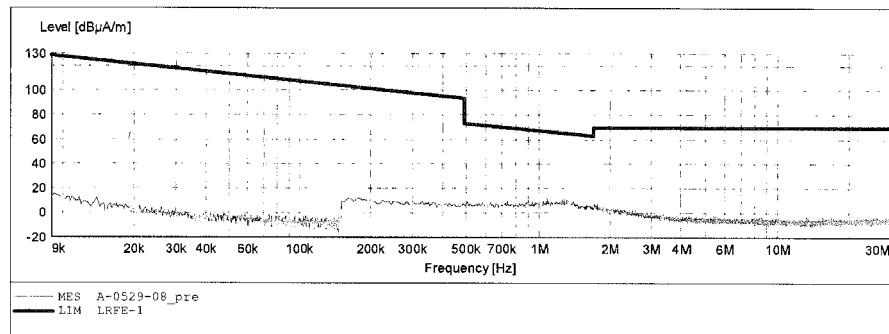


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Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

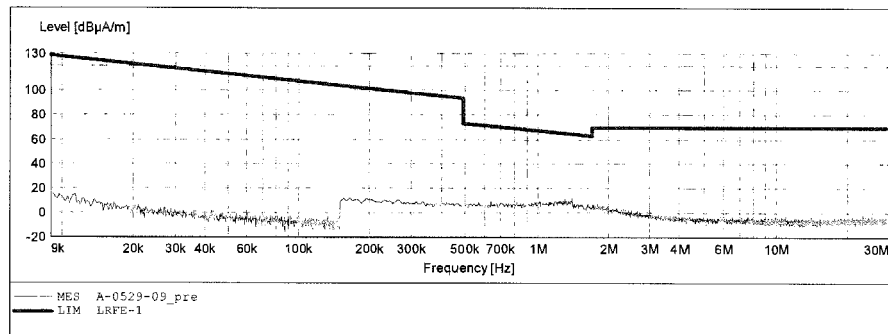


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Bluetooth Low Energy Advertising Device M/N:iBKS105
 Manufacturer: Accent Advanced Systems SLU
 Operating Condition: TX 2480MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2015-5-29 /

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



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Test Report No.
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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.: Ian2015-2 #793

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

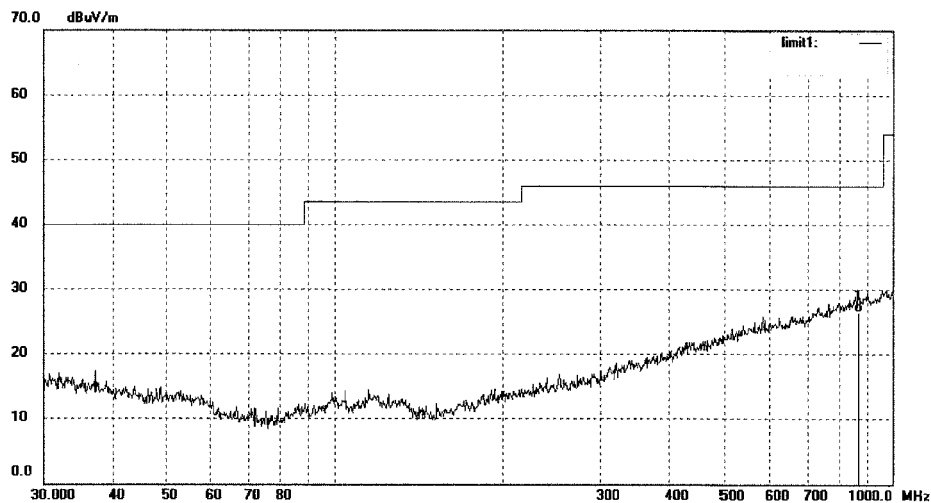
Date: 15/05/30/

Time:

Engineer Signature:

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	866.0878	25.47	1.03	26.50	46.00	-19.50	QP			

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Test Report No.
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #794

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

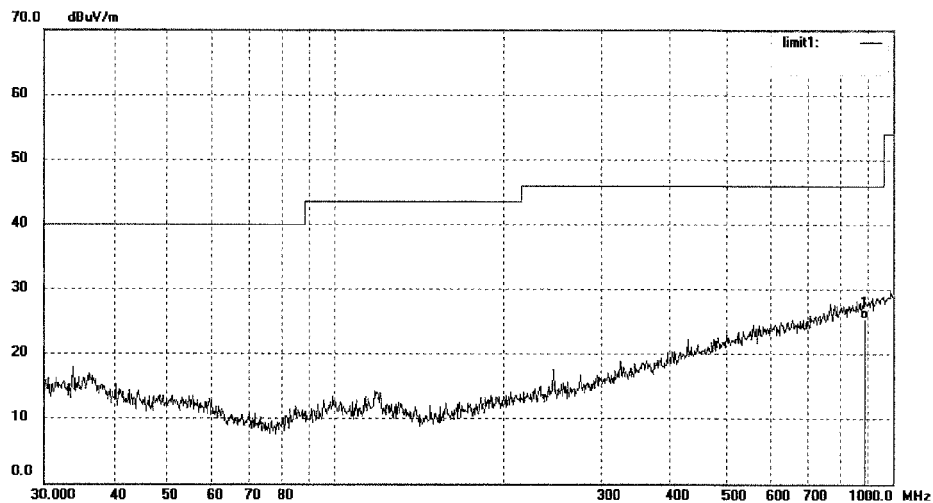
Date: 15/05/30/

Time:

Engineer Signature:

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	887.6099	24.25	1.24	25.49	46.00	-20.51	QP			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #796

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

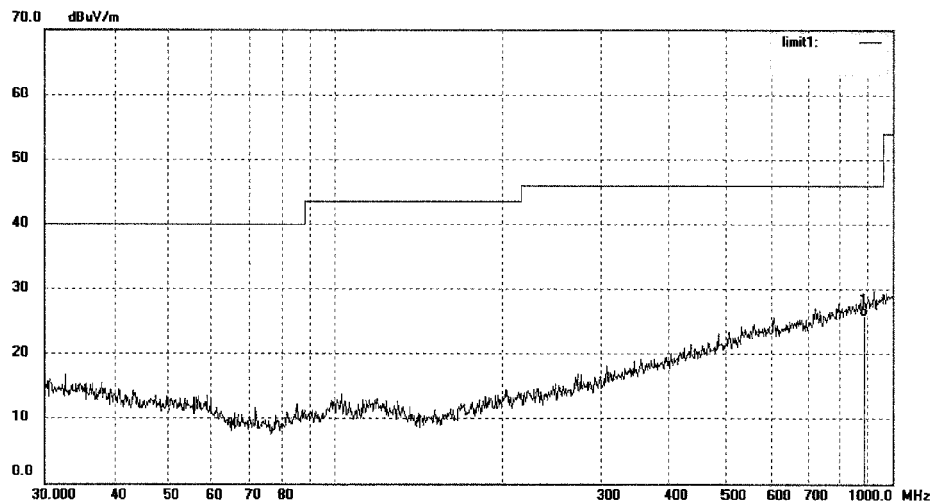
Date: 15/05/30/

Time:

Engineer Signature:

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	887.6099	24.52	1.24	25.76	46.00	-20.24	QP			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #795

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

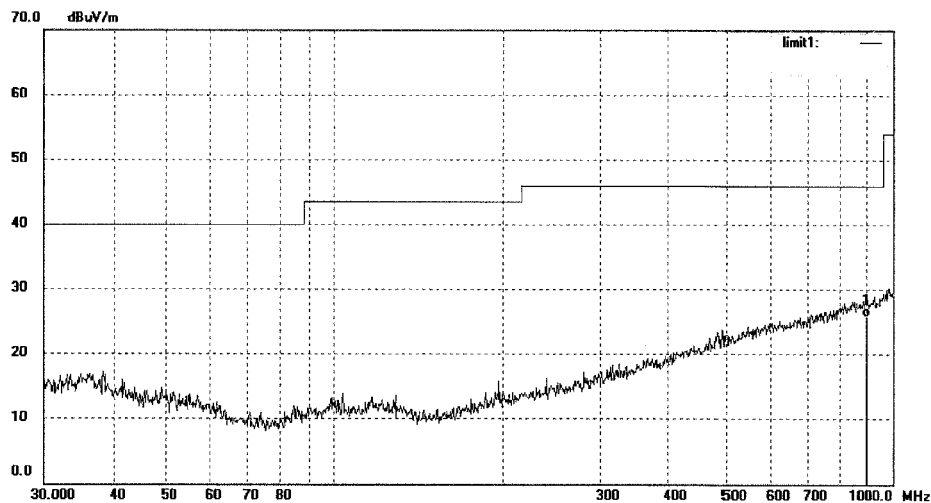
Date: 15/05/30/

Time:

Engineer Signature:

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	896.9964	24.54	1.27	25.81	46.00	-20.19	QP			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #797

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

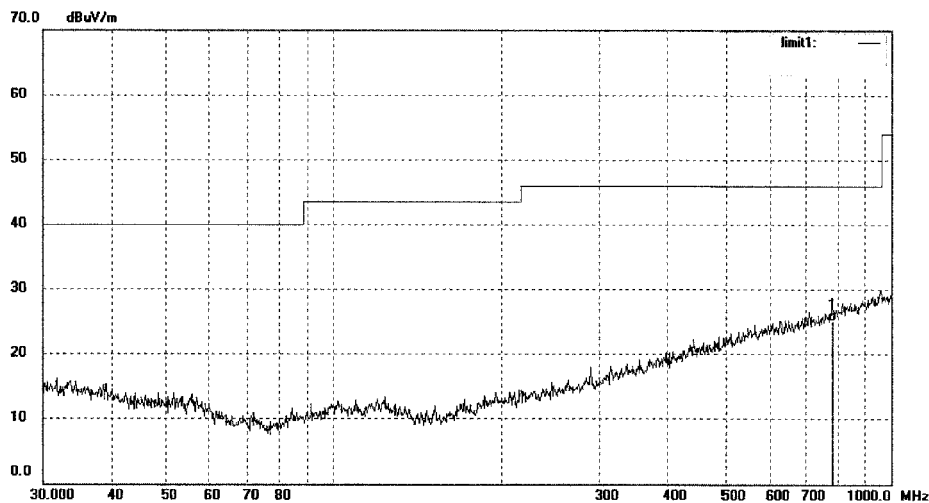
Date: 15/05/30/

Time:

Engineer Signature:

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	782.3452	25.40	-0.37	25.03	46.00	-20.97	QP			


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #798

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

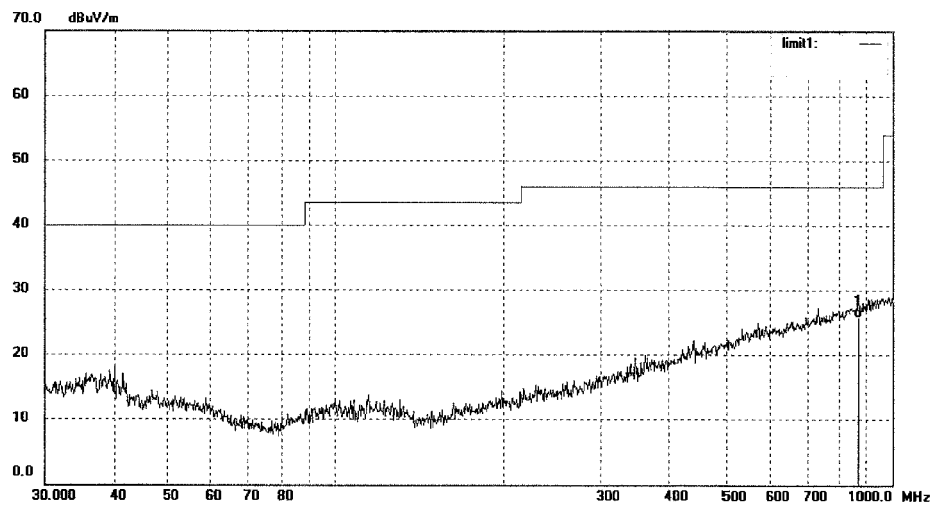
Date: 15/05/30/

Time:

Engineer Signature:

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	866.0878	24.77	1.03	25.80	46.00	-20.20	QP			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: Ian2015-2 #784

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

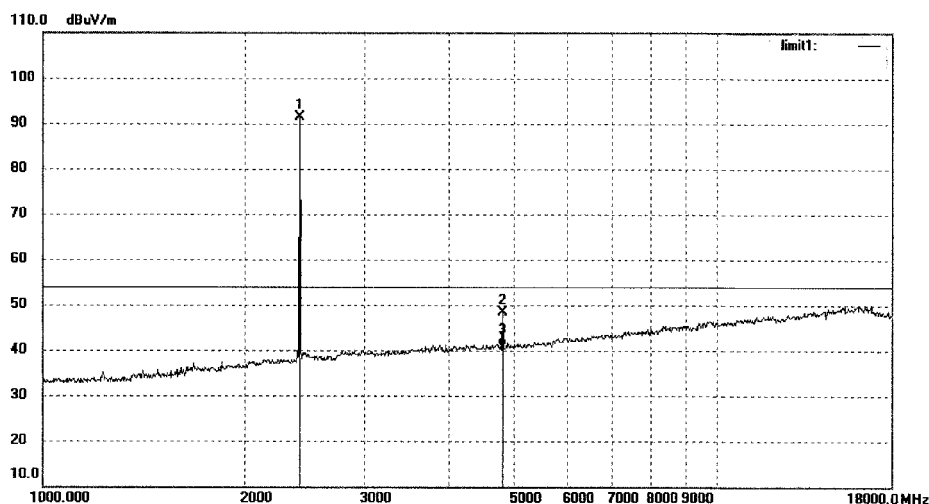
Date: 15/05/30/

Time:

Engineer Signature:

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	98.89	-7.45	91.44	/	/	peak			
2	4804.023	48.63	-0.30	48.33	74.00	-25.67	peak			
3	4804.023	41.22	-0.30	40.92	54.00	-13.08	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: lan2015-2 #783

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

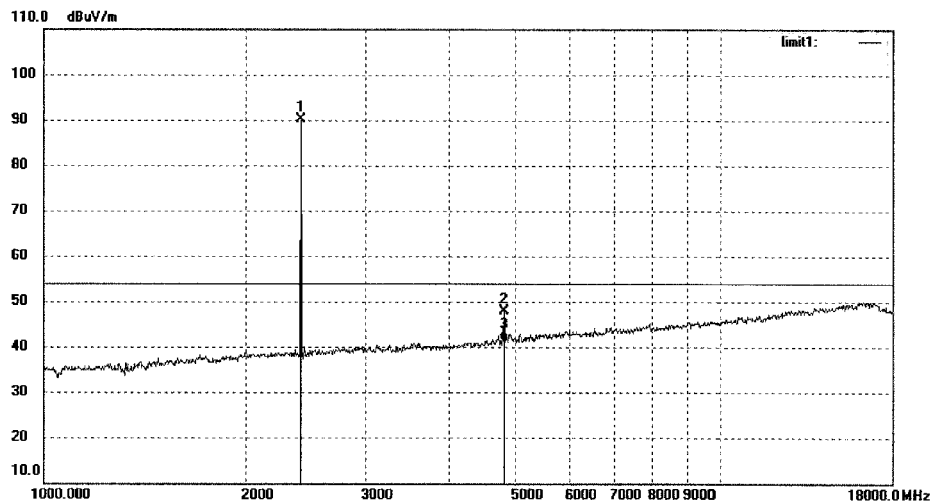
Date: 15/05/30/

Time:

Engineer Signature:

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	97.60	-7.45	90.15	/	/	peak			
2	4804.011	48.20	-0.30	47.90	74.00	-56.10	peak			
3	4804.011	41.75	-0.30	41.45	54.00	-12.55	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #788

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

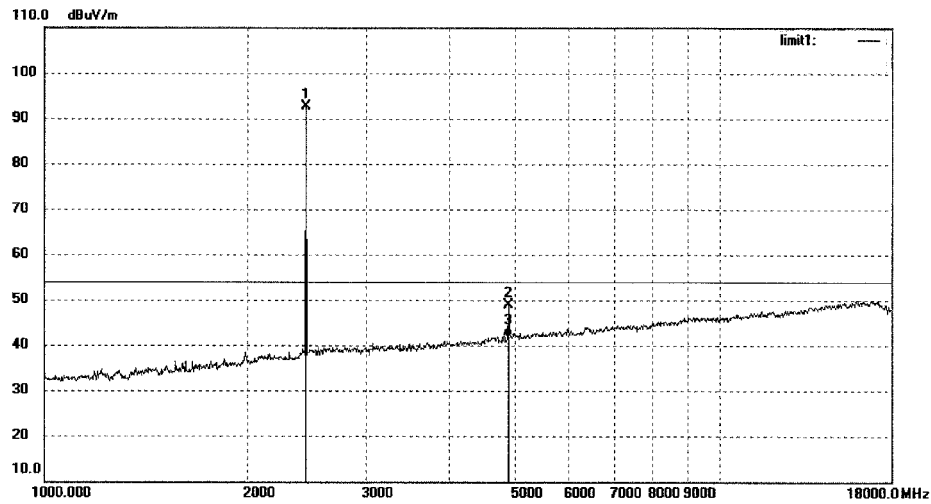
Date: 15/05/30/

Time:

Engineer Signature:

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	99.94	-7.36	92.58	/	/	peak			
2	4880.016	48.64	0.13	48.77	74.00	-25.23	peak			
3	4880.016	41.78	0.13	41.91	54.00	-12.09	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #787

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

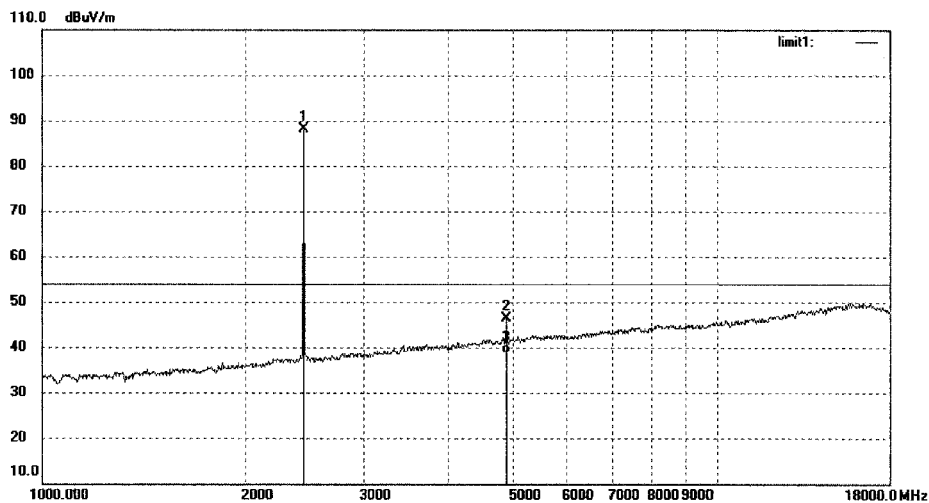
Date: 15/05/30/

Time:

Engineer Signature:

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	95.49	-7.36	88.13	/	/	peak			
2	4880.015	46.32	0.13	46.45	74.00	-27.55	peak			
3	4880.015	38.49	0.13	38.62	54.00	-15.38	AVG			


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015-2 #790

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

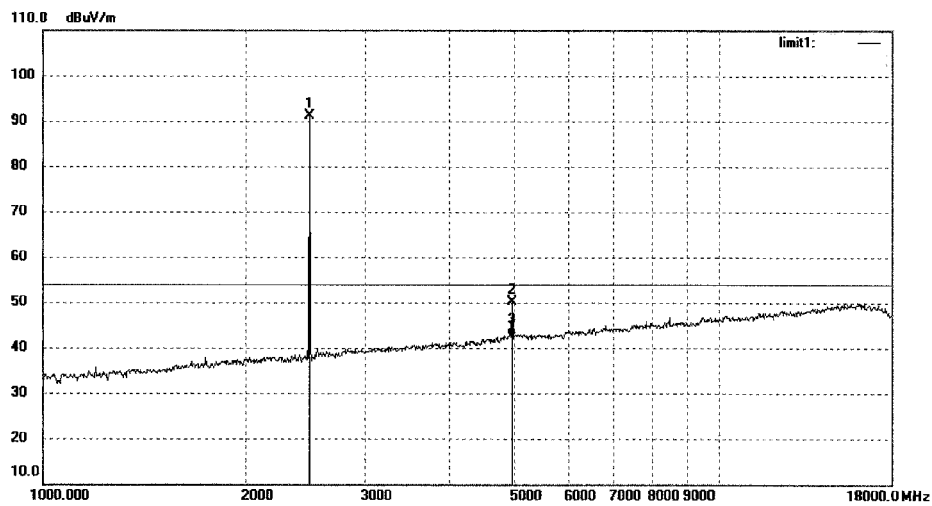
Date: 15/05/30/

Time:

Engineer Signature:

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	98.49	-7.37	91.12	/	/	peak			
2	4960.013	49.66	0.52	50.18	74.00	-23.82	peak			
3	4960.013	41.99	0.52	42.51	54.00	-11.49	AVG			

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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.: Ian2015-2 #789

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

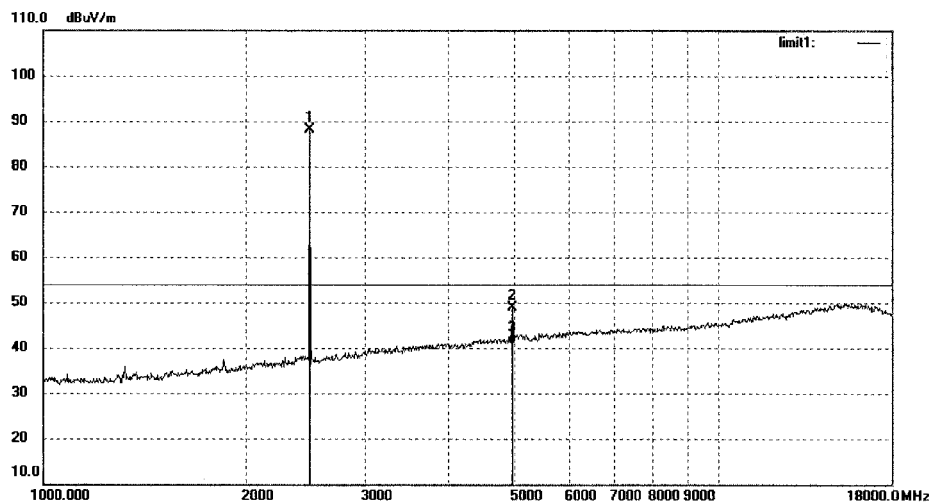
Date: 15/05/30/

Time:

Engineer Signature:

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	95.38	-7.37	88.01	/	/	peak			
2	4960.011	48.26	0.52	48.78	74.00	-25.22	peak			
3	4960.011	40.43	0.52	40.95	54.00	-13.05	AVG			

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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

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Job No.: Ian2015-2 #800

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 15/05/30/

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

Time:

EUT: Bluetooth Low Energy Advertising Device

Engineer Signature:

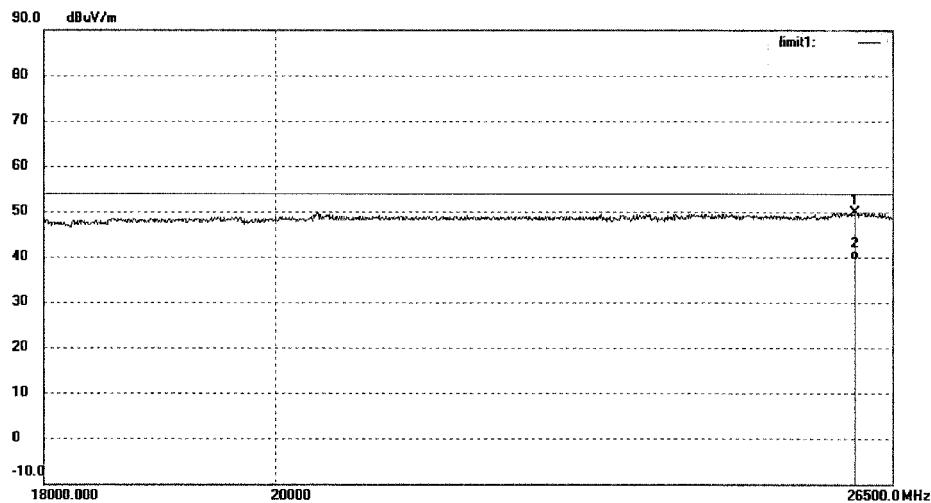
Mode: TX 2402MHz

Distance: 3m

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

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	26062.917	33.49	16.50	49.99	74.00	-24.01	peak			
2	26062.917	22.96	16.50	39.46	54.00	-14.54	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: Ian2015-2 #799

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

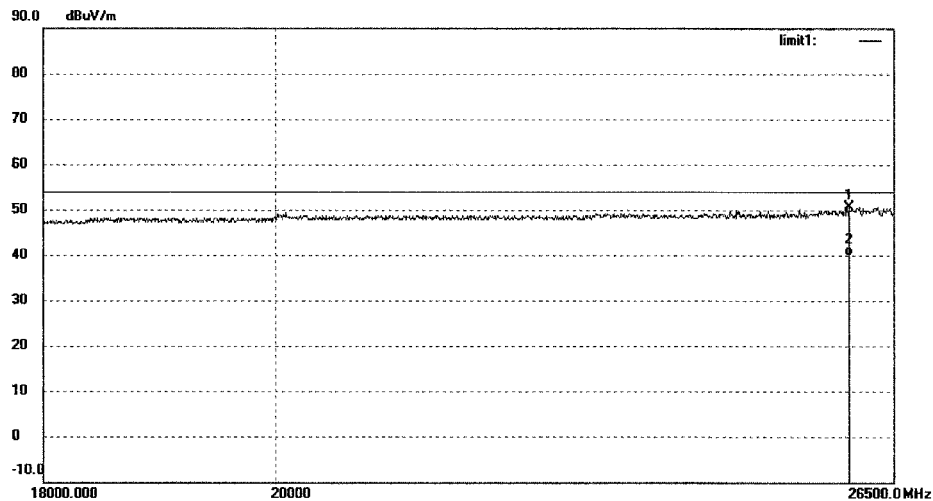
Date: 15/05/30/

Time:

Engineer Signature:

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	25972.351	34.17	16.50	50.67	74.00	-23.33	peak			
2	25972.351	23.45	16.50	39.95	54.00	-14.05	AVG			

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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.: lan2015-2 #801

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 3V

Test item: Radiation Test

Date: 15/05/30/

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

Time:

EUT: Bluetooth Low Energy Advertising Device

Engineer Signature:

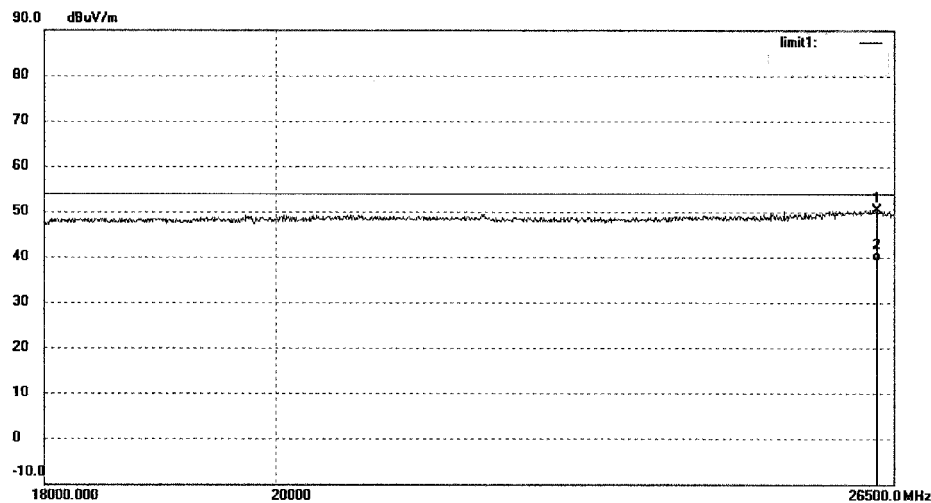
Mode: TX 2440MHz

Distance: 3m

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

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	26305.974	33.92	16.50	50.42	74.00	-23.58	peak			
2	26305.974	22.72	16.50	39.22	54.00	-14.78	AVG			

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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.: lan2015-2 #802

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2440MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

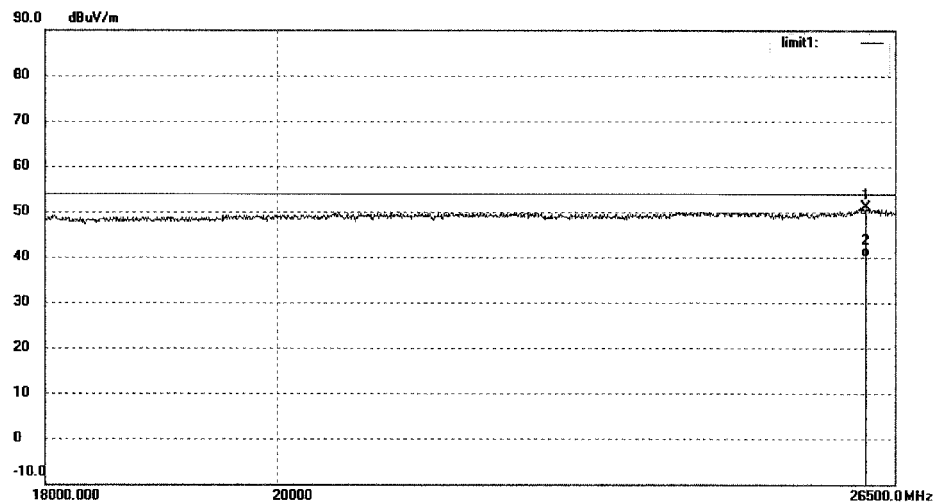
Date: 15/05/30/

Time:

Engineer Signature:

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	26153.799	34.75	16.50	51.25	74.00	-22.75	peak			
2	26153.799	23.63	16.50	40.13	54.00	-13.87	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #804

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Horizontal

Power Source: DC 3V

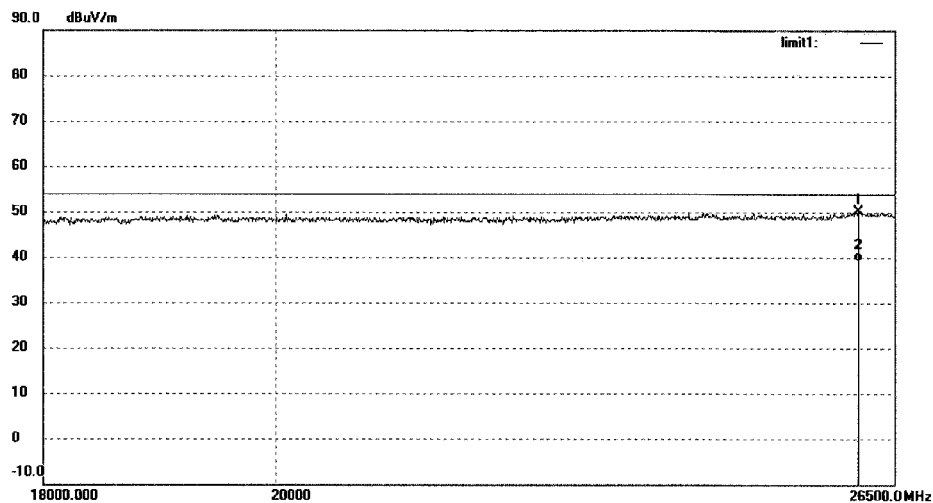
Date: 15/05/30/

Time:

Engineer Signature:

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	26072.999	33.58	16.50	50.08	74.00	-23.92	peak			
2	26072.999	22.56	16.50	39.06	54.00	-14.94	AVG			

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 Test Report No.

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ACCURATE TECHNOLOGY CO., LTD.

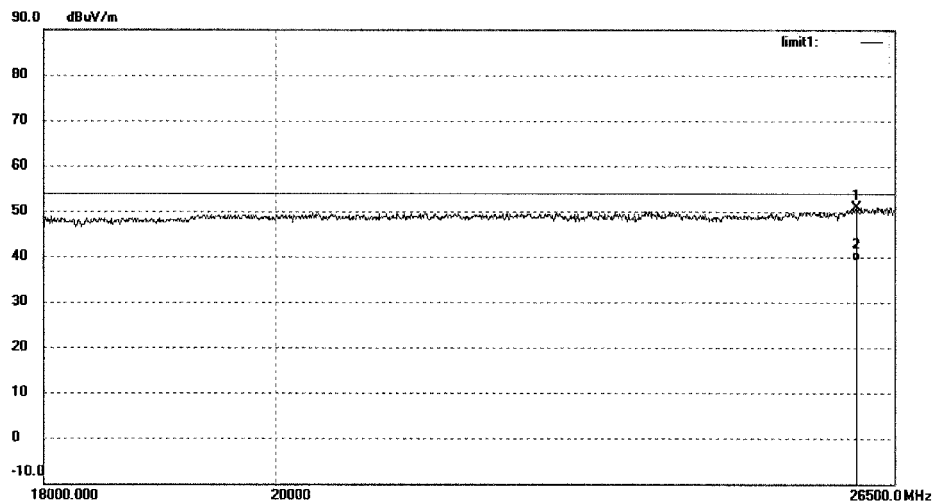
 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: Ian2015-2 #803
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 23 C / 48 %
 EUT: Bluetooth Low Energy Advertising Device
 Mode: TX 2480MHz
 Model: iBKS105
 Manufacturer: Accent Advanced Systems SLU

 Polarization: Vertical
 Power Source: DC 3V
 Date: 15/05/30/
 Time:
 Engineer Signature:
 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	26042.764	34.41	16.50	50.91	74.00	-23.09	peak			
2	26042.764	22.55	16.50	39.05	54.00	-14.95	AVG			

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Test Plot of Frequency Band Edge


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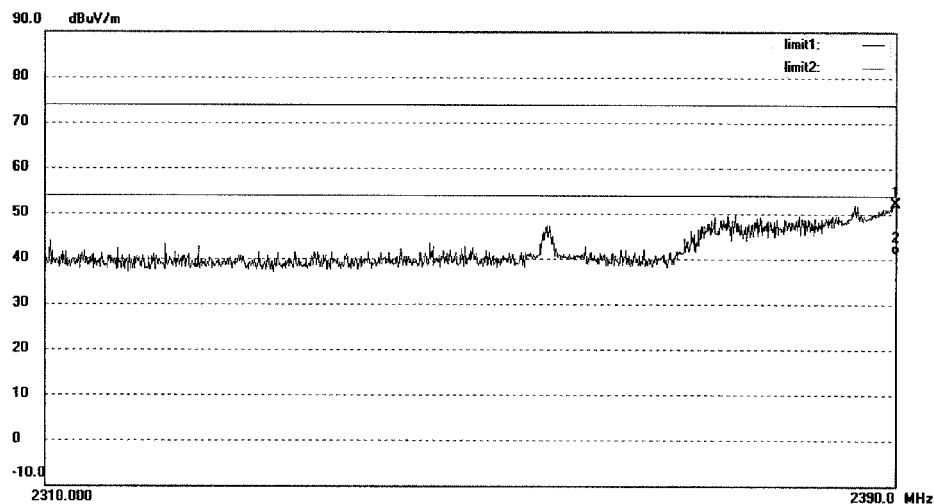
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #785	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 15/05/30/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Bluetooth Low Energy Advertising Device	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: iBKS105	
Manufacturer: Accent Advanced Systems SLU	
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	2390.000	59.74	-7.53	52.21	74.00	-21.79	peak			
2	2390.000	48.70	-7.53	41.17	54.00	-12.83	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #786

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2402MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

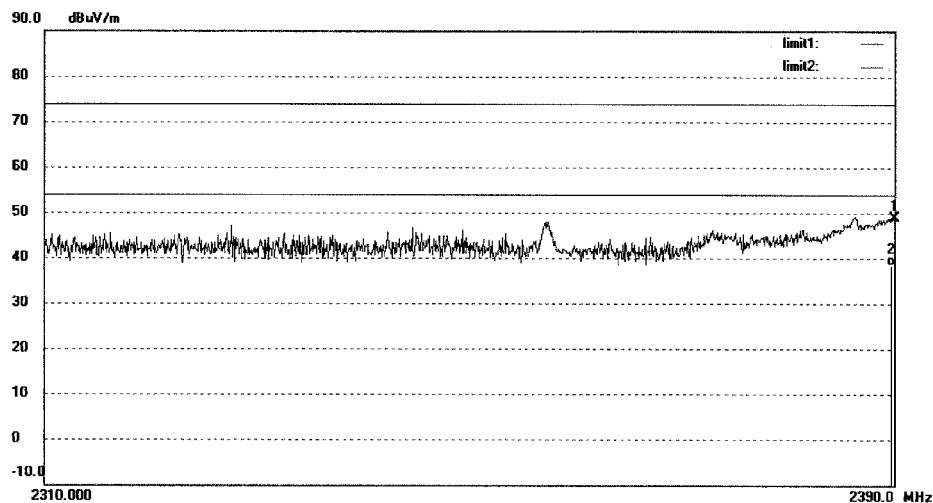
Date: 15/05/30/

Time:

Engineer Signature:

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	2390.000	56.33	-7.53	48.80	74.00	-25.20	peak			
2	2390.000	45.96	-7.53	38.43	54.00	-15.57	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: lan2015-2 #791

Polarization: Horizontal

Standard: FCC (Band Edge)

Power Source: DC 3V

Test item: Radiation Test

Date: 15/05/30/

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

Time:

EUT: Bluetooth Low Energy Advertising Device

Engineer Signature:

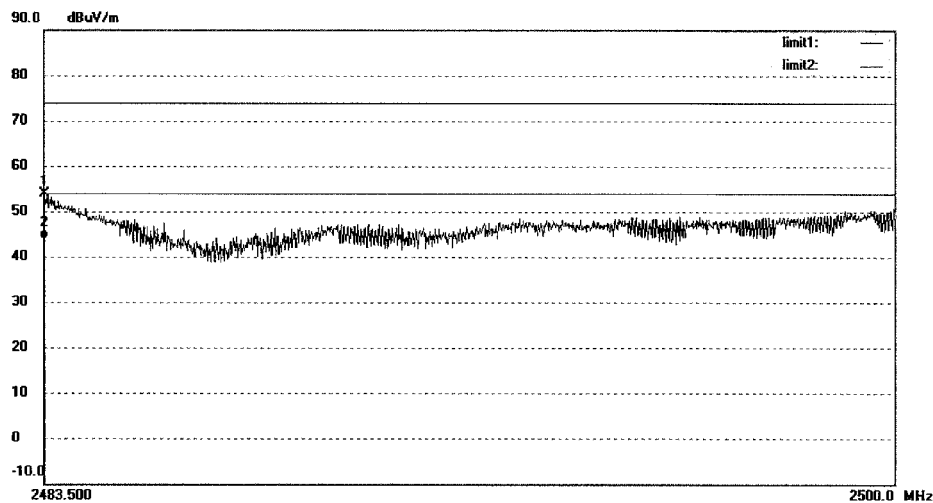
Mode: TX 2480MHz

Distance: 3m

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

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	2483.500	61.23	-7.37	53.86	74.00	-20.14	peak			
2	2483.500	51.37	-7.37	44.00	54.00	-10.00	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: lan2015-2 #792

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Bluetooth Low Energy Advertising Device

Mode: TX 2480MHz

Model: iBKS105

Manufacturer: Accent Advanced Systems SLU

Polarization: Vertical

Power Source: DC 3V

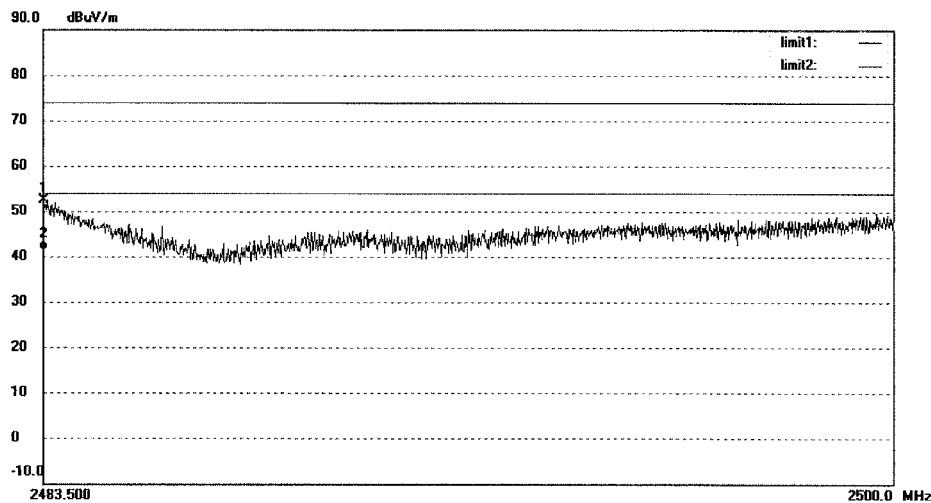
Date: 15/05/30/

Time:

Engineer Signature:

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	2483.500	59.87	-7.37	52.50	74.00	-21.50	peak			
2	2483.500	48.83	-7.37	41.46	54.00	-12.54	AVG			

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

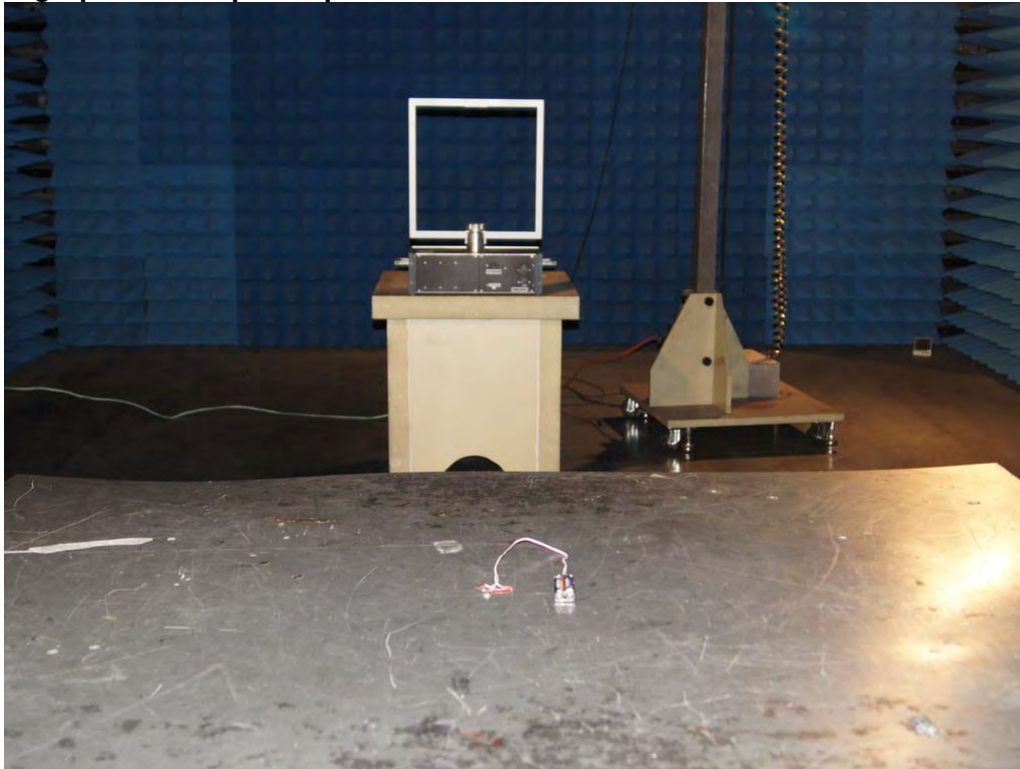
RESULT:**Pass**

Test standard : FCC KDB Publication 447498 v05r02

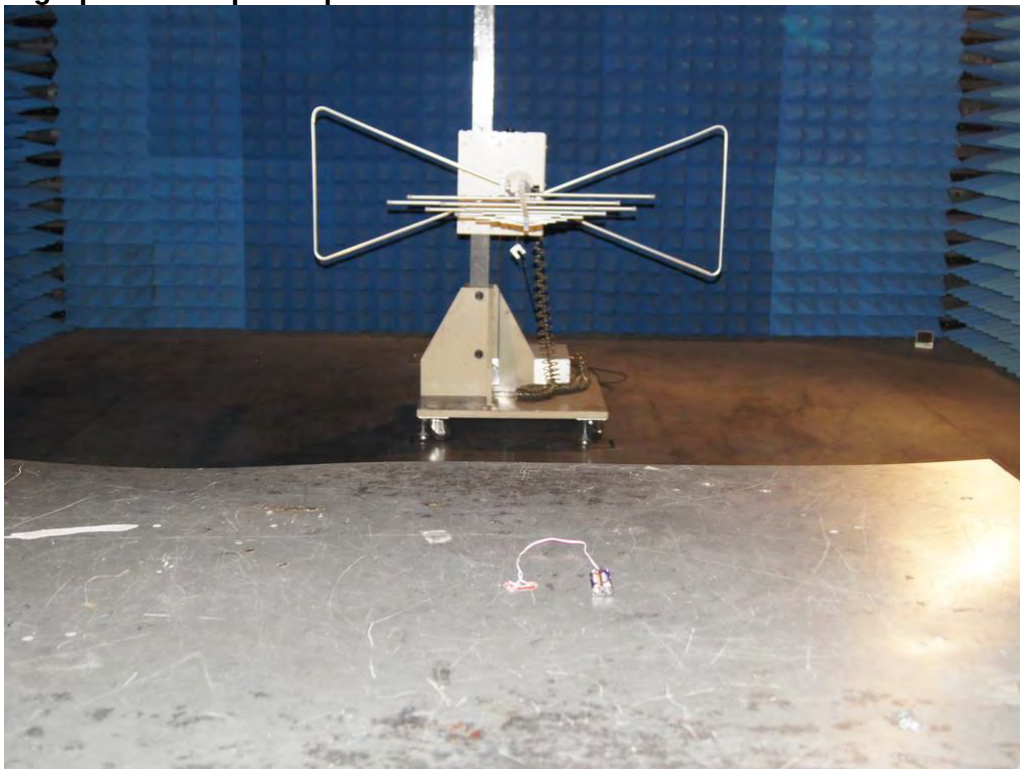
Since maximum radiated power of the transmitter is 0.85mW(-0.69dBm)<10mW, and the distance from EUT to human is 5mm, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v05r02.

7. Photographs of the Test Set-Up

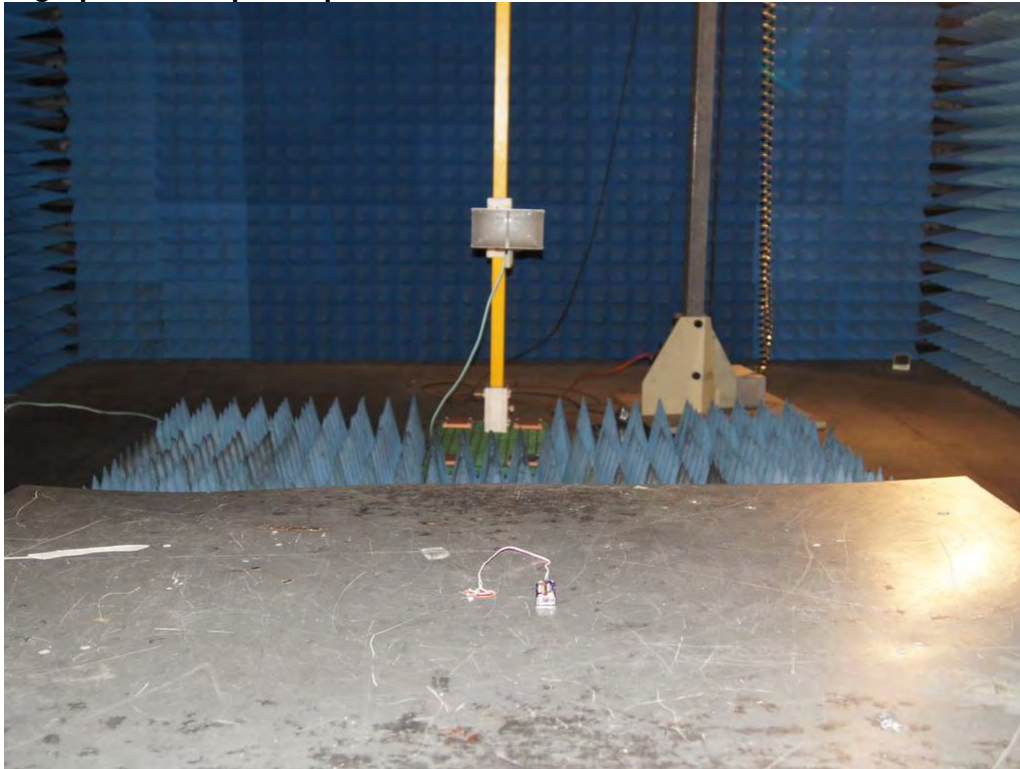
Photograph 1: Set-up for Spurious Emissions for below 30MHz



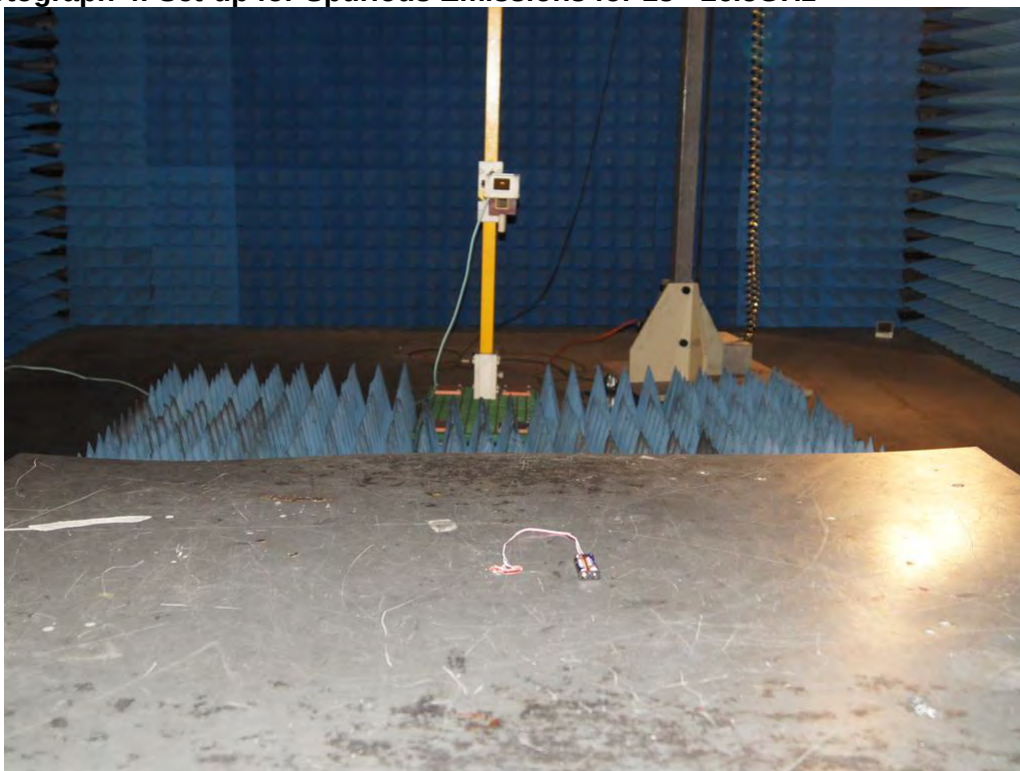
Photograph 2: Set-up for Spurious Emissions for 30 - 1000MHz



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



Photograph 4: Set-up for Spurious Emissions for 18 - 26.5GHz



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