

Prüfbericht-Nr.: <i>Test Report No.:</i>	17045688 002	Auftrags-Nr.: <i>Order No.:</i>	164027250	Seite 1 von 35 Page 1 of 35
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	12.12.2014	
Auftraggeber: <i>Client:</i>	Lenovo (Beijing) Limited, No.6 Chuang Ye Road, Shangdi Information Industry, Haidian District, Beijing, China			
Prüfgegenstand: <i>Test item:</i>	ThinkPad Stack Bluetooth Speaker			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	S123			
Auftrags-Inhalt: <i>Order content:</i>	FCC approval			
Prüfgrundlage: <i>Test specification:</i>	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 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109 FCC KDB publication 447498 D01 v05r02			
Wareneingangsdatum: <i>Date of receipt:</i>	26.03.2015	N/A		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000178199-001, A000178199-002, A000178199-003			
Prüfzeitraum: <i>Testing period:</i>	01.04.2015 - 22.04.2015			
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: 		kontrolliert von / reviewed by: 		
30.04.2015	Tom Wang / Project Manager	13.05.2015	Sam Lin / Technical Certifier	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
Unterschrift <i>Signature</i>		Unterschrift <i>Signature</i>		
Sonstiges / Other: This report is for DTS equipment class.				
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>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: *Passed*

5.1.2 PEAK OUTPUT POWER

RESULT: *Passed*

5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH

RESULT: *Passed*

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: *Passed*

5.1.5 POWER SPECTRAL DENSITY

RESULT: *Passed*

5.1.6 SPURIOUS EMISSIONS

RESULT: *Passed*

5.1.7 RADIATED EMISSIONS

RESULT: *Passed*

5.1.8 CONDUCTED EMISSIONS

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 A: Test Results of Bluetooth 4.0 Low Energy mode

Appendix B: Test Results of RF Exposure

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051 & IC Registration Number: 5077A-2)

F1, Bldg A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park,
Nanshan District, Shenzhen, 518057, 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
Radio Spectrum Test				
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.11, 2016
Test Receiver	Rohde& Schwarz	ESR	101817	Jul. 30, 2016
Spectrum Analyzer	Rohde&Schwarz	FSP30	100220	Jan.21, 2016
Power Meter	Rohde&Schwarz	NRP	100970	Jan. 21.2016
Power Sensor	Rohde&Schwarz	NRP-Z11	103642	Jan. 21.2016
Conducted emissions				
Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.11, 2016
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.11, 2016
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Jan.11, 2016
Radiated emissions				
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.11, 2016
Test Receiver	Rohde& Schwarz	ESR	101817	Jul. 30, 2016
Bilog Antenna	Schwarzbeck	VULB9163	9163-194	Jan.15, 2016
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.15, 2016
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan.11, 2016
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan.11, 2016
Pre-Amplifier	Agilent	8447D	294A10619	Jan.11, 2016
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan.11, 2016

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

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table,

Items		Extended Uncertainty
CE	Disturbance Voltage (dBuV)	U=1.94dB, k=2, σ =95%
RE (9kHz-30MHz)	Field strength (dBuV/m)	U=3.08dB, k=2, σ =95%
RE (30-1000MHz)	Field strength (dBuV/m)	U=4.42dB, k=2, σ =95%
RE (above 1000MHz)	Field strength (dBuV/m)	U=4.06dB, k=2, σ =95%

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 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 Accurate Technology Co., Ltd. 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 ThinkPad Stack Bluetooth Speaker. It supports Bluetooth 4.0 dual mode wireless technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment:	ThinkPad Stack Bluetooth Speaker
Type Designation:	S123
FCC ID:	A5MS123
IC:	5903G-S123
Type of Equipment:	Class B digital equipment
Equipment Class:	DTS
Wireless Technology:	Bluetooth 4.0 Low Energy
Operating Frequency Range:	2402-2480MHz for Bluetooth
Channel Number:	40 channels for Bluetooth 4.0 Low Energy
Channel Separation:	2MHz for Bluetooth 4.0 Low Energy
Type of Modulation:	GFSK for Bluetooth 4.0 Low Energy
Operating Voltage:	DC 5.2V via marketed AC/DC adapter DC 3.7V via Lithium-ion battery
Operating Temperature Range:	5°C to 35°C
Antenna Type:	FPCB Antenna for Bluetooth
Smart Antenna Systems:	Not Applicable
Number of Antenna:	1 for Bluetooth
Antenna Gain:	Max. -0.13 dBi for Bluetooth

Table 3: Marketed AC/DC adapter

Description	Manufacturer	Model	S/N	Rating
AC/DC adapter	Lite-On Technology Corporation	PA-110-17IN	45N0530	Input: AC 100-240V, 50/60Hz, 0.3A MAX. Output: DC 5.2V, 2A

Table 4: List of Radio Frequency Channel, Bluetooth 4.0 Low Energy

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. Transmitting
 - 1. Bluetooth function
 - a. Low Channel
 - b. Mid Channel
 - c. High Channel
- B. Receiving
- C. Standby
- D. Battery Charging
- E. Aux-in playing
- F. 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

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation 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.

During testing, test software BlueSuite provided by the applicant was used to control the operating channel as well as output power for Bluetooth operation.

Table 5: List of Frequencies under Test, Bluetooth Low Energy operation

RF Channel of Bluetooth 4.0 Low Energy			
Channel	Channel number	Frequency (MHz)	Power Level setting in software
Low	0	2402.00	50
Middle	19	2440.00	50
High	39	2480.00	50

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop PC	Lenovo	X200	L3-ANW2G	--
Mobile Phone	HUAWEI	P7-L00	7NZMYN151S027 984	--

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

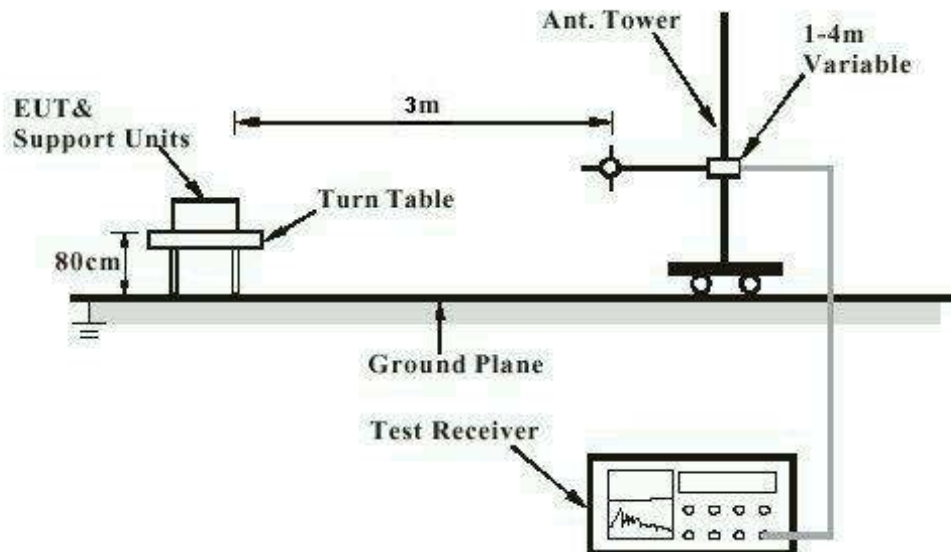


Diagram of Measurement Equipment Configuration for Conduction Measurement

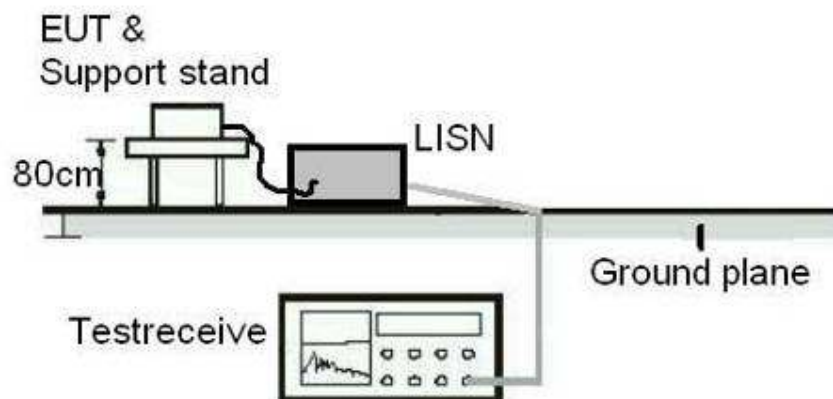
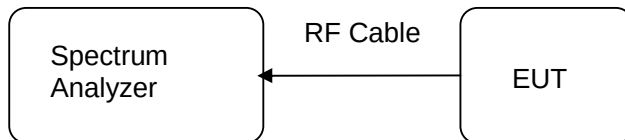


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2015-04-01 to 2015-04-22
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
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 -0.13dBi for Bluetooth, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to compliance the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT:
Passed

Test date : 2015-04-01 to 2015-04-22
 Test standard : FCC Part 15.247(b)(3)
 Basic standard : ANSI C63.4: 2009
 FCC KDB 558074 v03r02
 Limit : 1Watt
 Kind of test site : Shielded room

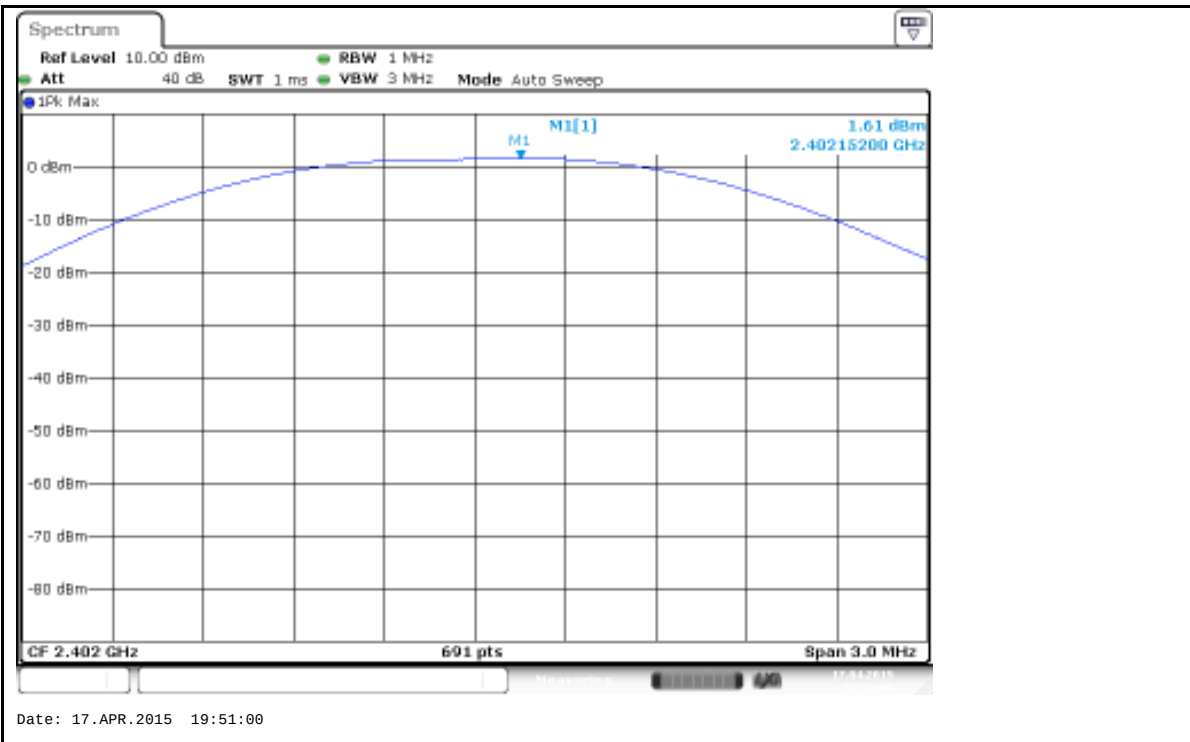
Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1
 Ambient temperature : 22°C
 Relative humidity : 51%
 Atmospheric pressure : 101.0 kPa

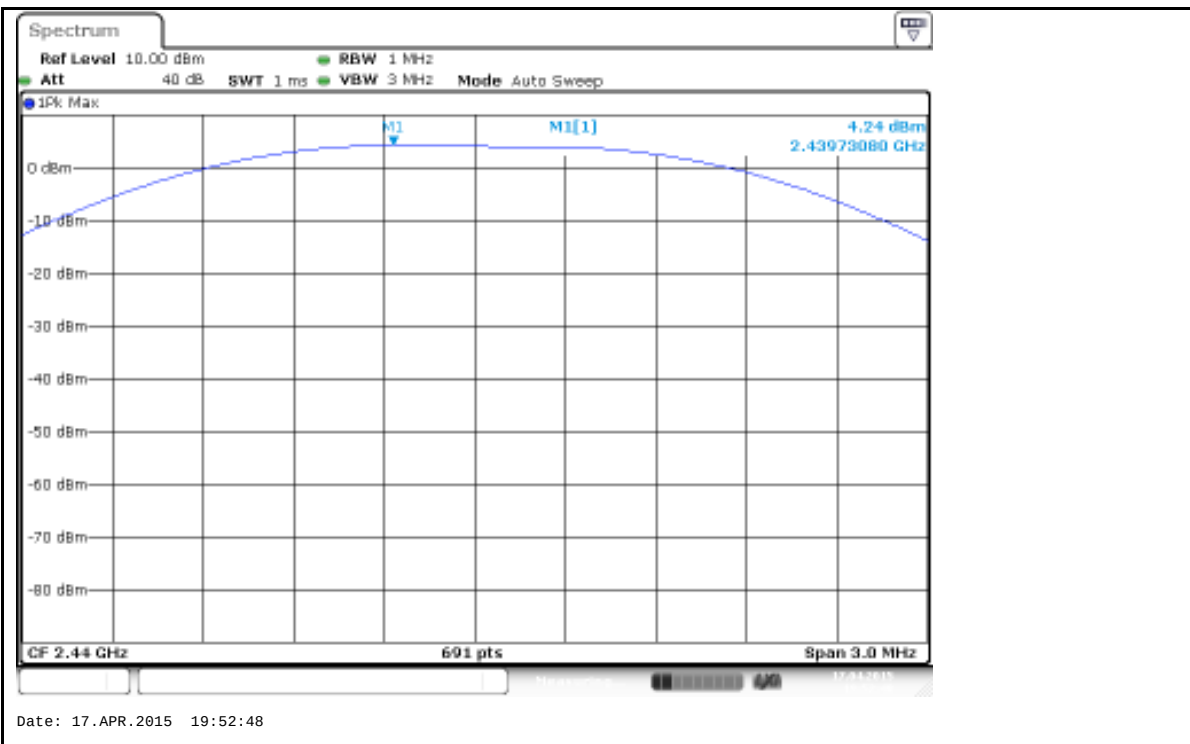
Table 7: Test result of Peak Output Power, Bluetooth Low Energy operation

Channel	Channel Frequency (MHz)	Bluetooth 4.0 Low Energy		
		Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	3.61	0.00230	1
Middle Channel	2440	6.24	0.00421	1
High Channel	2480	5.66	0.00368	1
Note:				
1. Peak Output power = measure value + cable loss, cable loss is 2dB.				

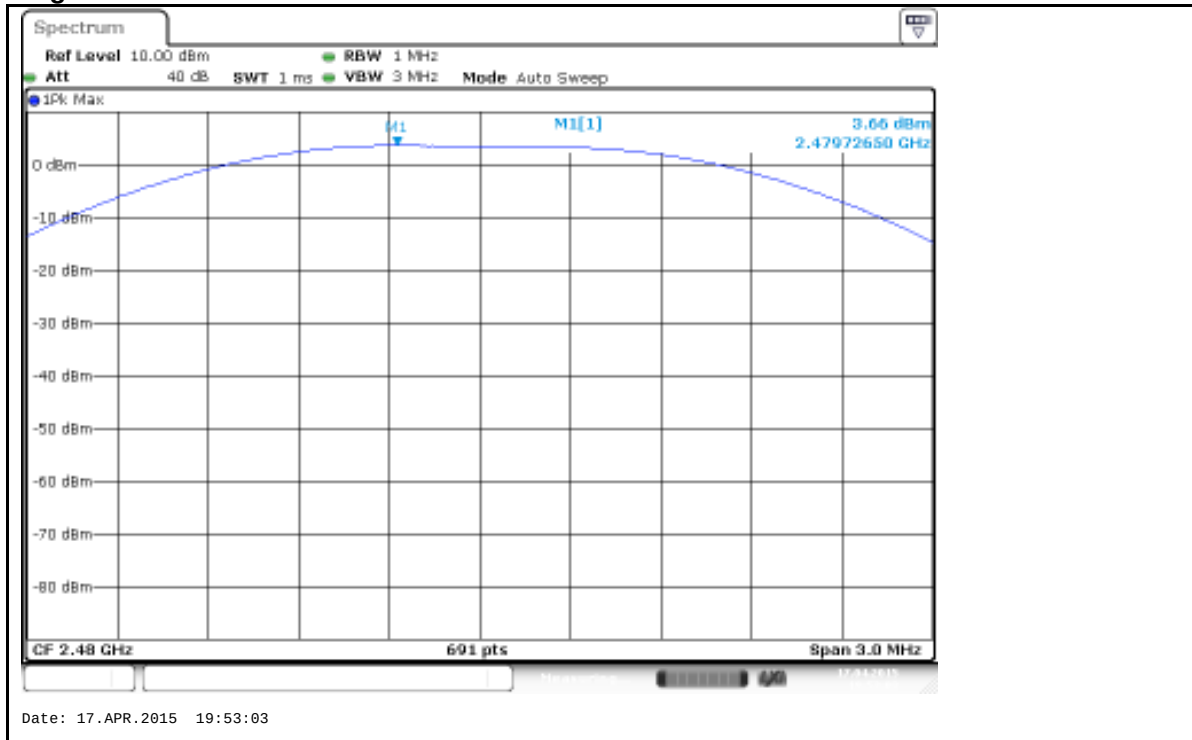
Test Graph of Peak Output Power, Bluetooth 4.0 Low Energy mode Low Channel



Middle Channel



High Channel



5.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:**Passed**

Date of testing : 2015-04-01 to 2015-04-22
Test standard : FCC Part 15.247(a)(2)
Basic standard : ANSI C63.4: 2009
FCC KDB 558074 v03r02
Kind of test site : Shielded room

Test setup

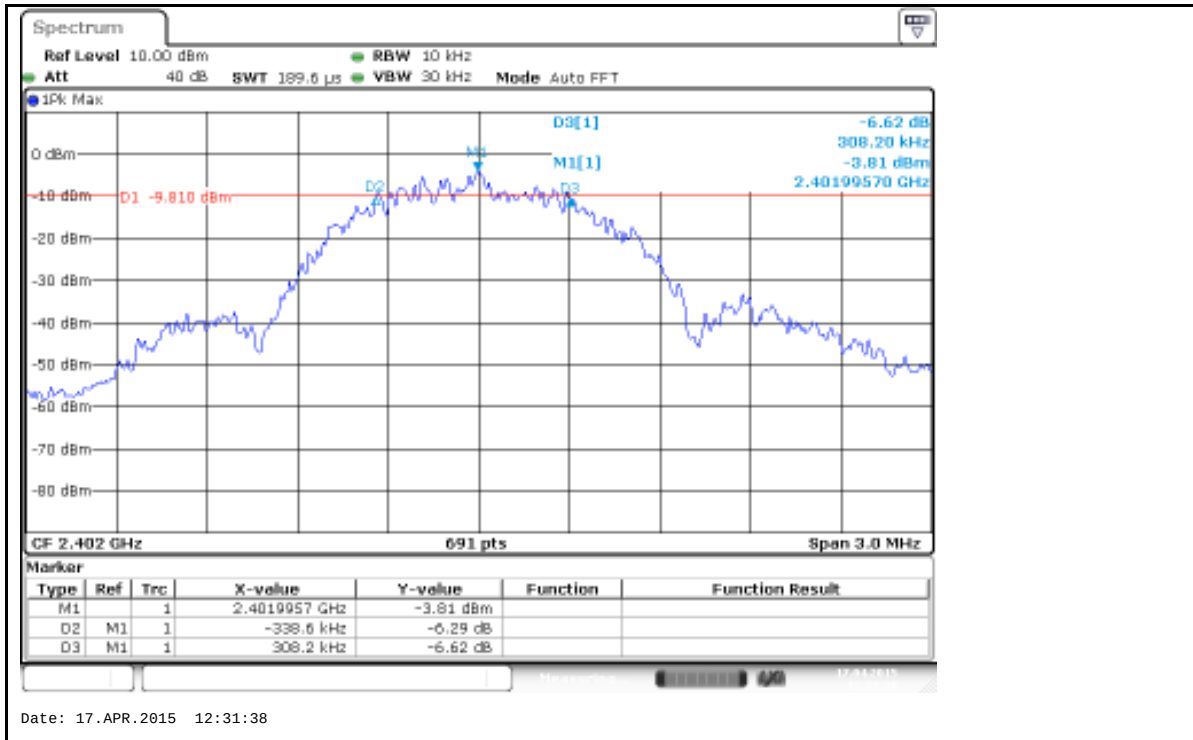
Test Channel : Low/ Middle/ High
Operation Mode : A.1
Ambient temperature : 22°C
Relative humidity : 51%
Atmospheric pressure : 101.0 kPa

Table 8: Test result of 6dB Bandwidth and 99% Bandwidth, Bluetooth Low Energy operation

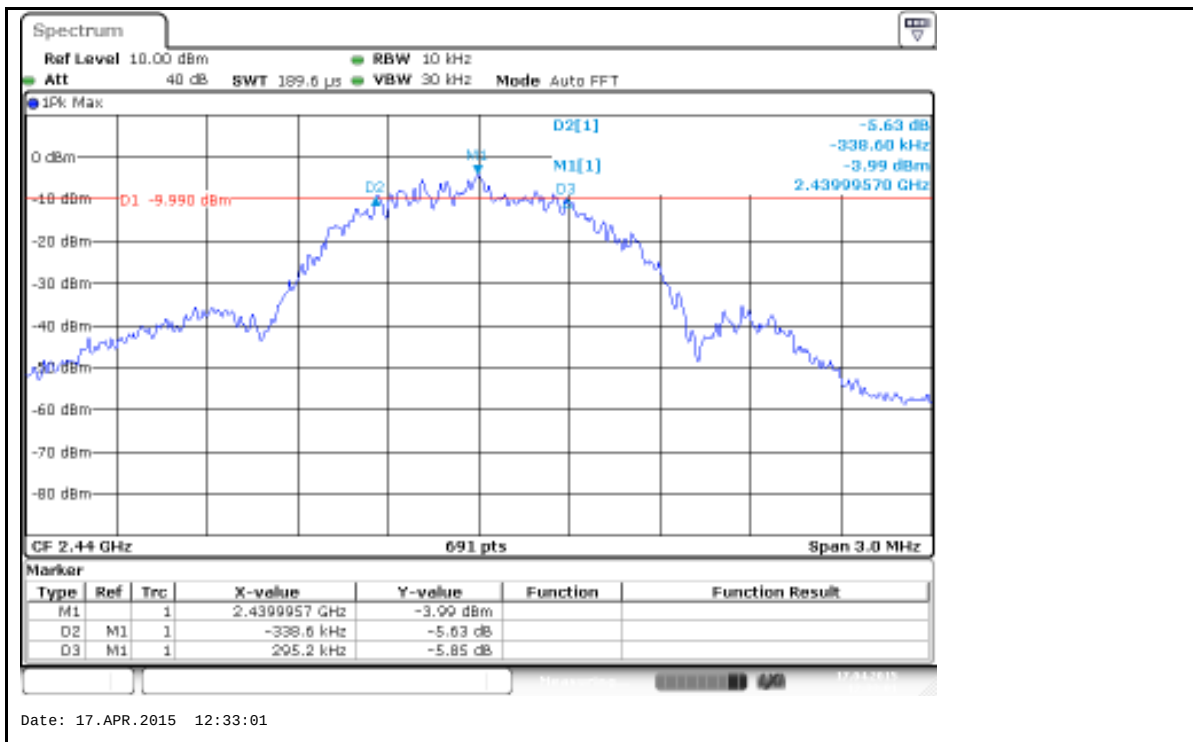
Bluetooth 4.0 Low Energy				
Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	99% Bandwidth (kHz)	Result
Low Channel	2402	646.8	1046.3	Pass
Mid Channel	2440	633.8	1042.0	Pass
High Channel	2480	642.6	1046.3	Pass

Test Graph of 6dB Bandwidth, Bluetooth 4.0 Low Energy mode

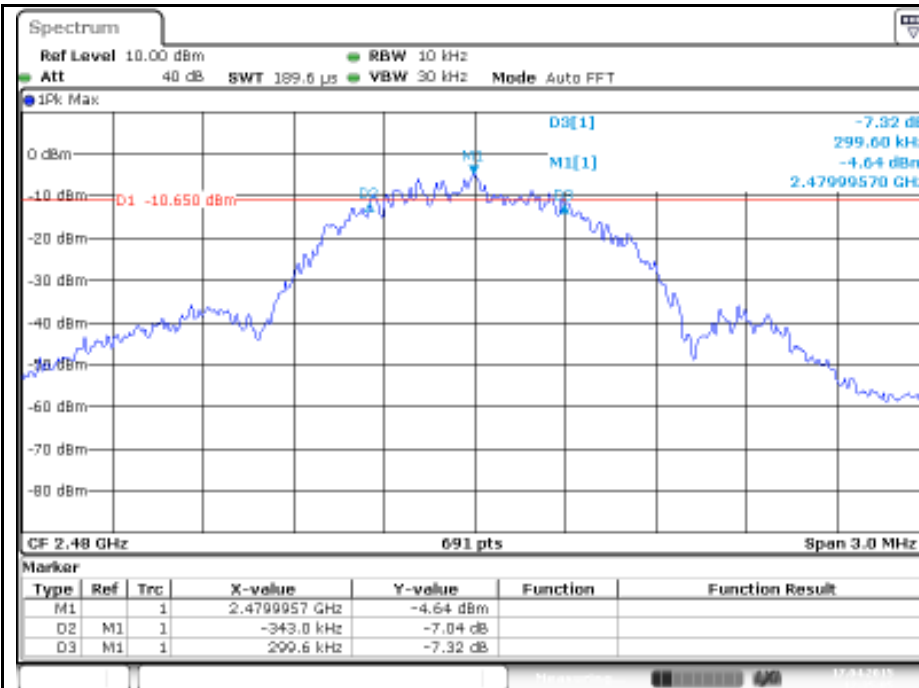
Low Channel



Middle Channel

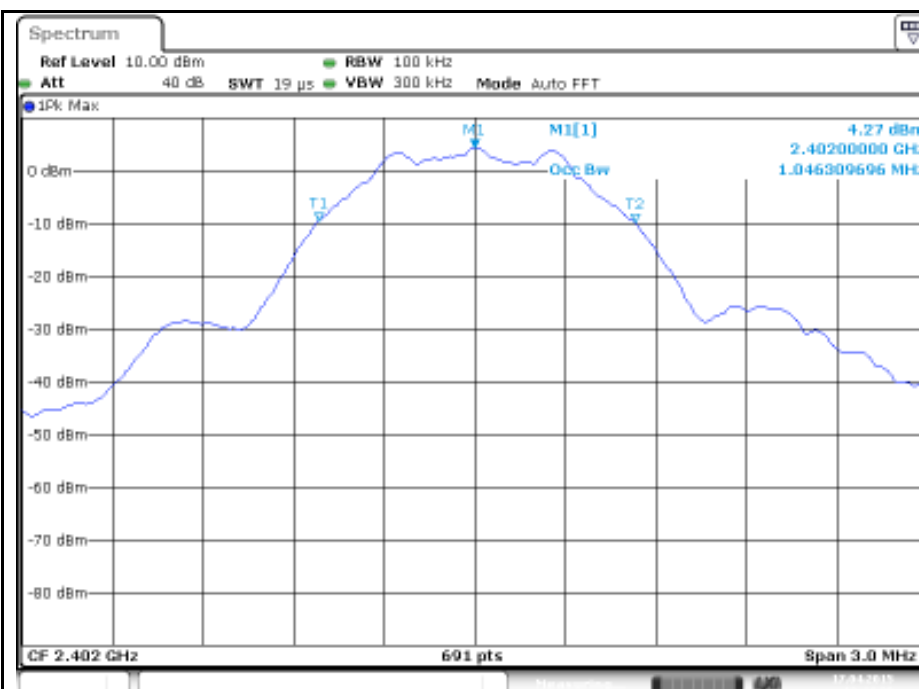


High Channel



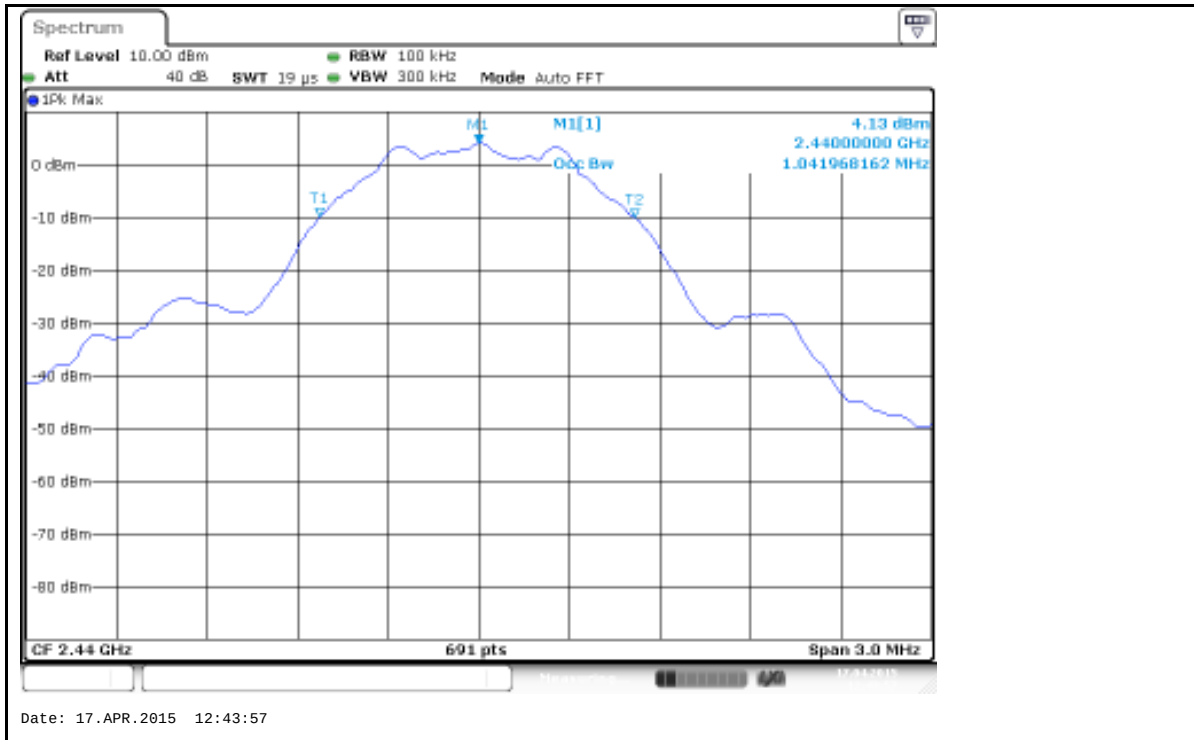
Date: 17.APR.2015 12:35:05

Test Graph of 99% Bandwidth, Bluetooth 4.0 Low Energy mode Low Channel

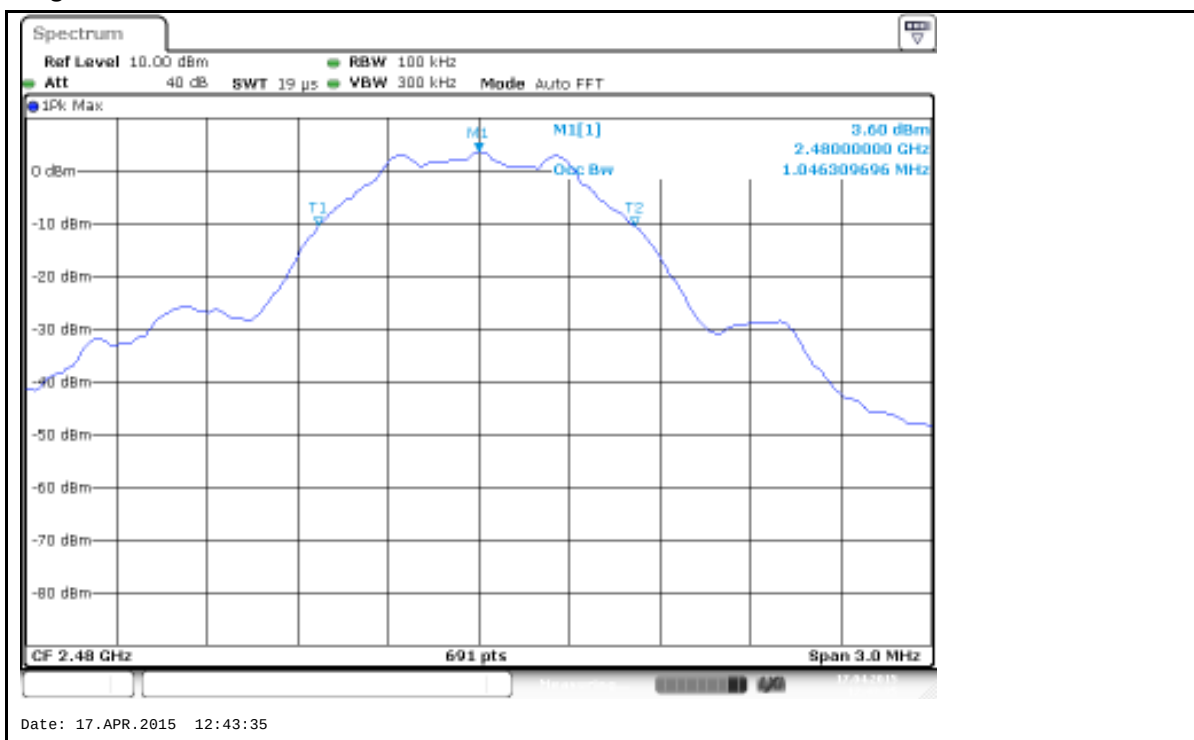


Date: 17.APR.2015 12:44:28

Middle Channel



High Channel



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

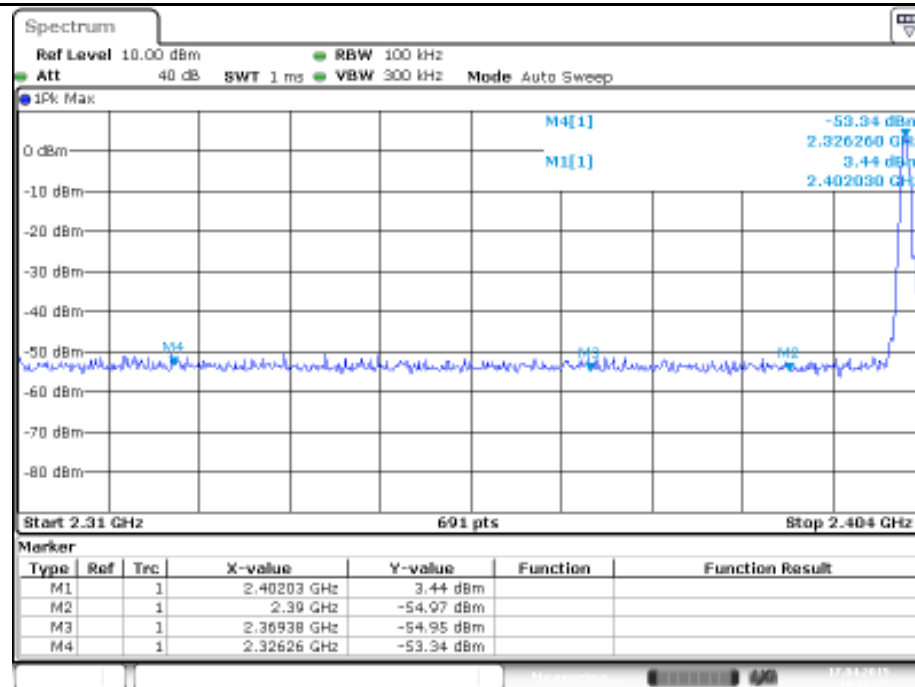
Date of testing	:	2015-04-01 to 2015-04-22
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.4: 2009 FCC KDB 558074 v03r02
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the 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/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	22°C
Relative humidity	:	51%
Atmospheric pressure	:	101.0 kPa

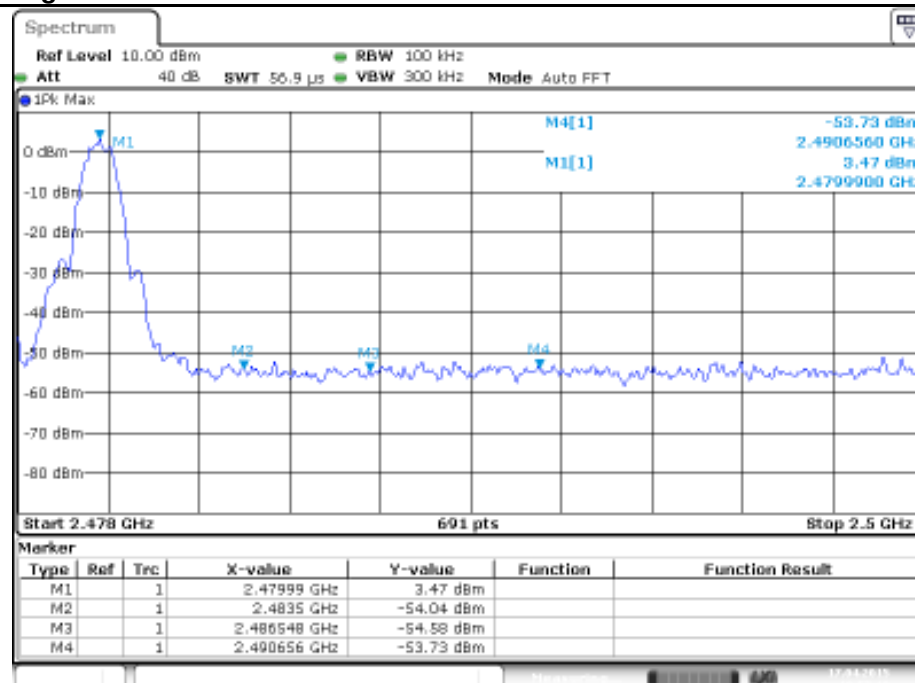
Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test graph, and compliance is achieved as well.

Test Graph of 100 kHz Bandwidth of Frequency Band Edge, Bluetooth 4.0 Low Energy mode Low Channel



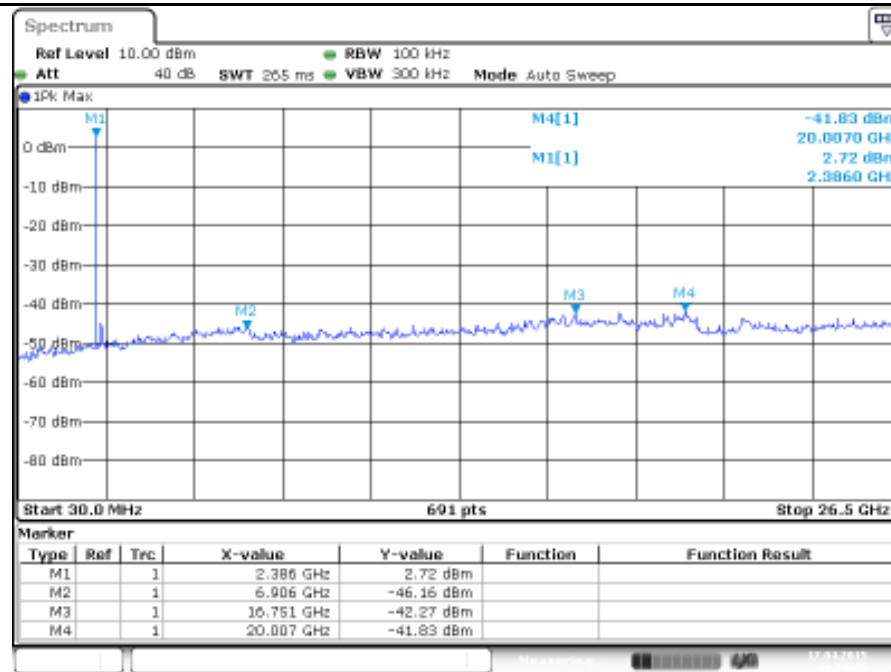
Date: 17.APR.2015 19:56:27

High Channel



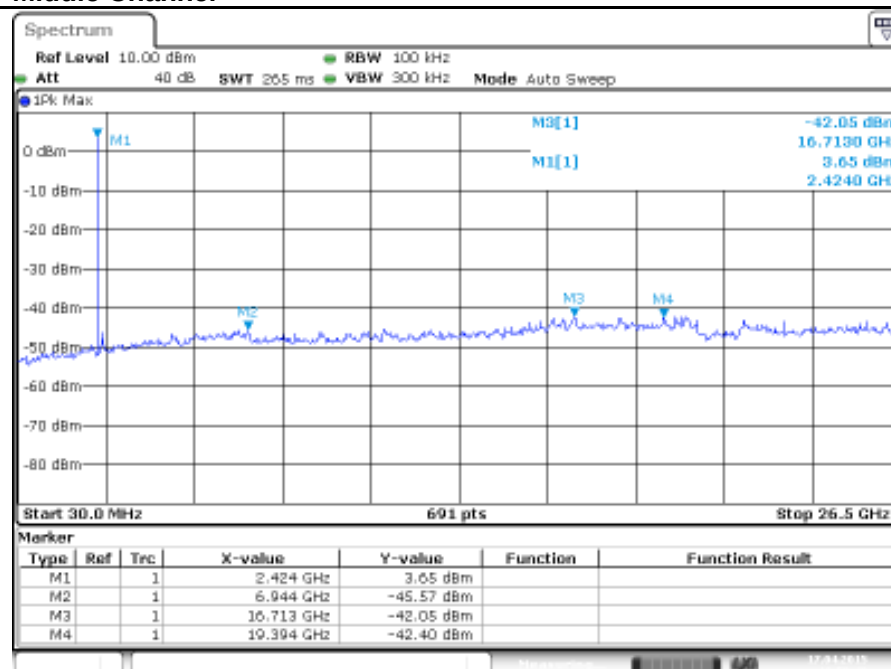
Date: 17.APR.2015 19:57:19

Test Graph of Conducted spurious emissions measured in 100 kHz Bandwidth, Bluetooth 4.0 Low Energy mode Low Channel



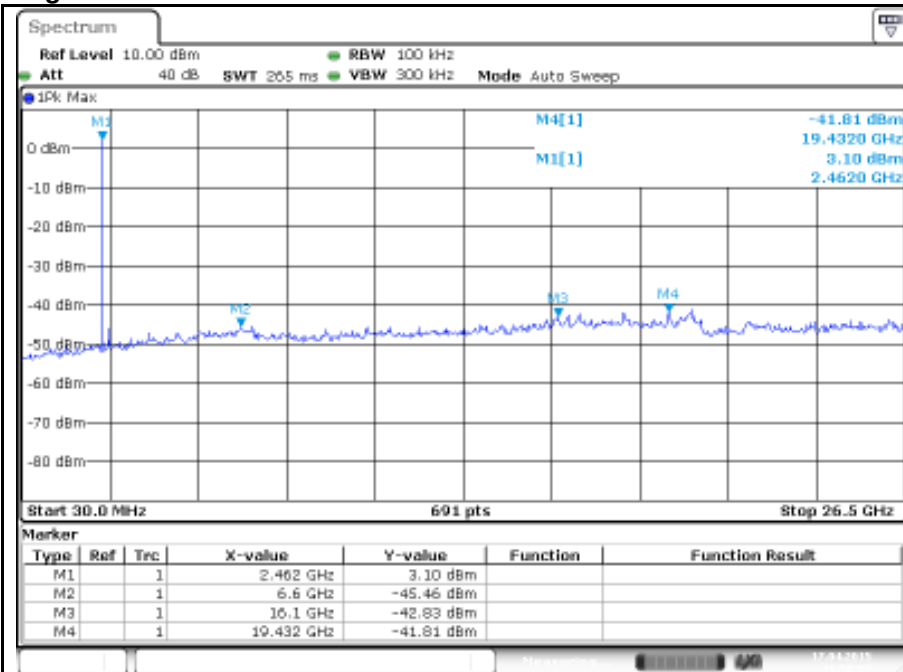
Date: 17.APR.2015 19:59:29

Middle Channel



Date: 17.APR.2015 19:58:48

High Channel



Date: 17.APR.2015 19:58:07

5.1.5 Power spectral density

RESULT:
Passed

Date of testing : 2015-04-01 to 2015-04-22
 Test standard : FCC part 15.247(e)
 Basic standard : ANSI C63.4: 2009
 FCC KDB 558074 v03r02
 Limit : 8dBm/3kHz
 Kind of test site : Shield room

Test setup

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

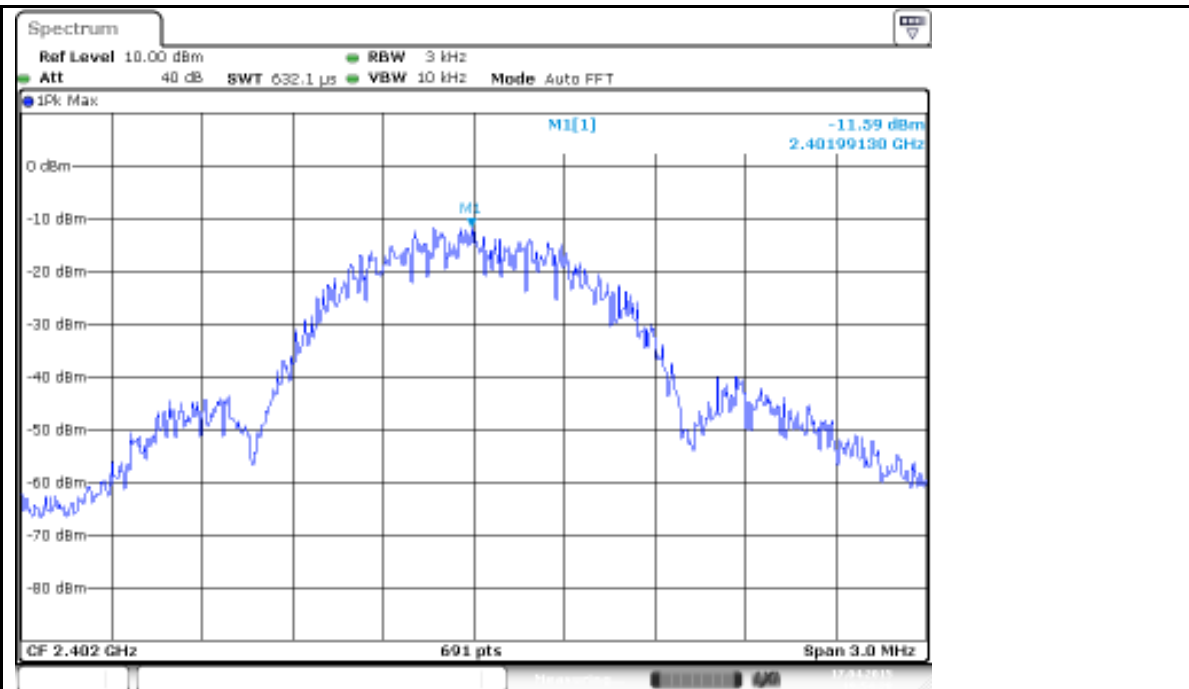
Table 9: Test result of power spectral density, Bluetooth Low Energy operation

Operation Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth 4.0 Low Energy	2402	-9.59	8	Pass
	2440	-9.72	8	Pass
	2480	-10.23	8	Pass

Note:

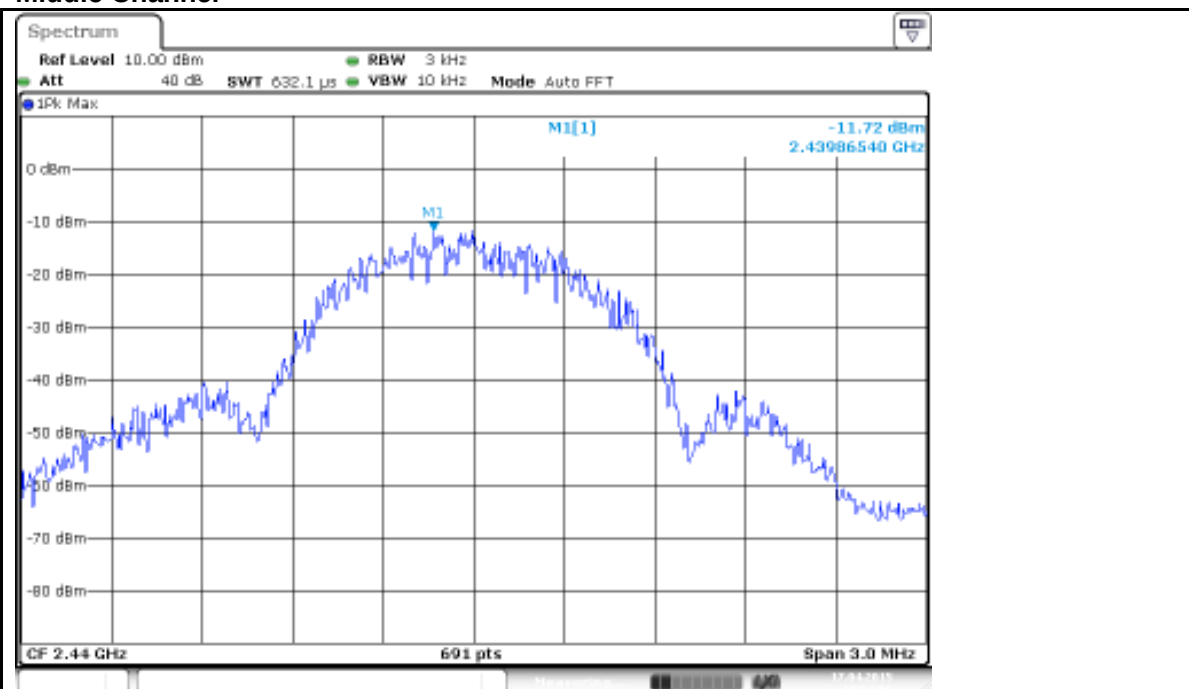
1. Peak Output power = measure value + cable loss, cable loss is 2dB.

Test Graph of Power Spectral Density, Bluetooth 4.0 Low Energy mode Low Channel



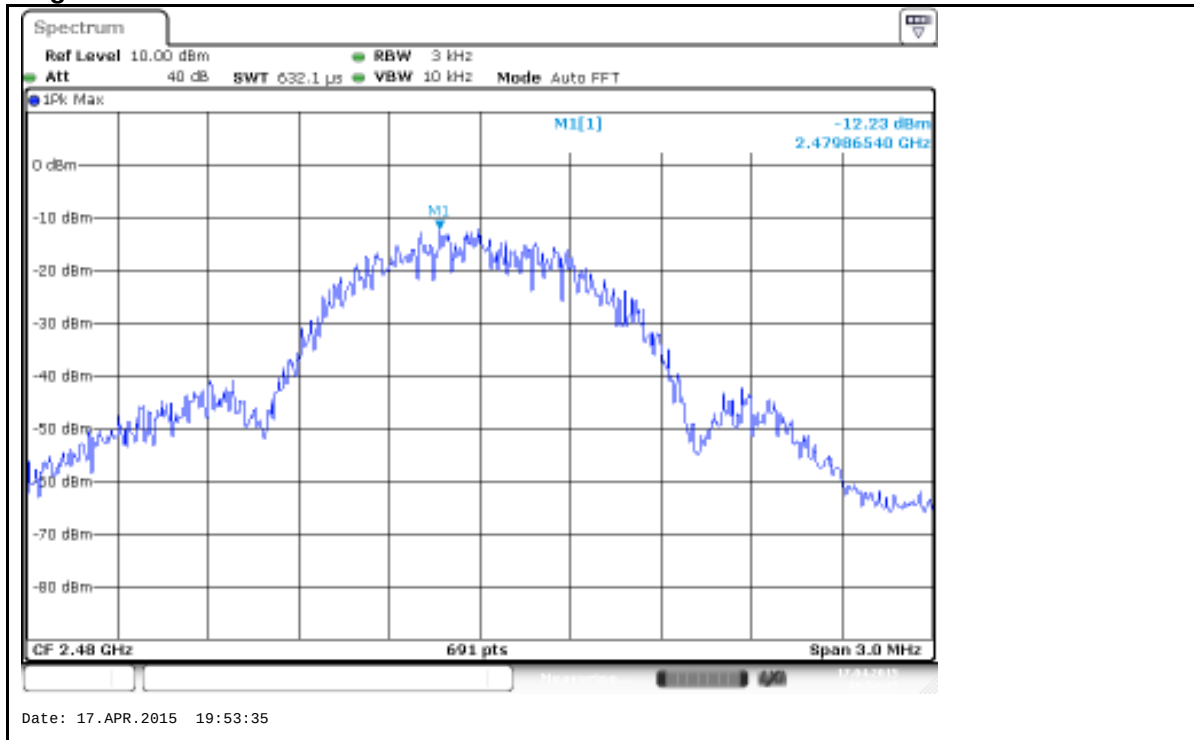
Date: 17.APR.2015 19:54:28

Middle Channel



Date: 17.APR.2015 19:54:06

High Channel



5.1.6 Spurious Emissions

RESULT:**Passed**

Date of testing	:	2015-04-01 to 2015-04-22
Test standard	:	FCC part 15.247(d) FCC part 15.209
Basic standard	:	ANSI C63.4: 2009
Limits	:	Refer to 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1+D
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101.0 kPa

Refer to attached Appendix A for details.

5.1.7 Radiated emissions

RESULT:**Passed**

Date of testing	:	2015-04-01 to 2015-04-22
Test standard	:	FCC Part 15.109
Basic standard	:	ANSI C63.4: 2009
Frequency range	:	30 – 6000MHz
Limits	:	FCC Part 15.109(a)
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input Voltage	:	DC 5.2V (via AC/DC adapter)
Operation Mode	:	E, E+D
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101.0 kPa

Refer to attached Appendix A for details.

5.1.8 Conducted emissions

RESULT:**Passed**

Date of testing	:	2015-04-01 to 2015-04-22
Test standard	:	FCC Part 15.207 FCC Part 15.107
Basic standard	:	ANSI C63.4: 2009
Frequency range	:	0.15MHz – 30MHz
Limits	:	FCC Part 15.207(a) FCC Part 15.107(a)
Kind of test site	:	Shield Room

Test Setup

Input Voltage	:	DC 5.2V (via AC/DC adapter)
Operation Mode	:	A+B+D, E+D
Ambient temperature	:	23°C
Relative humidity	:	50%
Atmospheric pressure	:	101.0 kPa

Refer to attached Appendix A for details.

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Appendix A

Test Results of Bluetooth 4.0 Low Energy mode

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Appendix A.1: Spurious Emissions of Bluetooth 4.0 Low Energy operation Low Channel

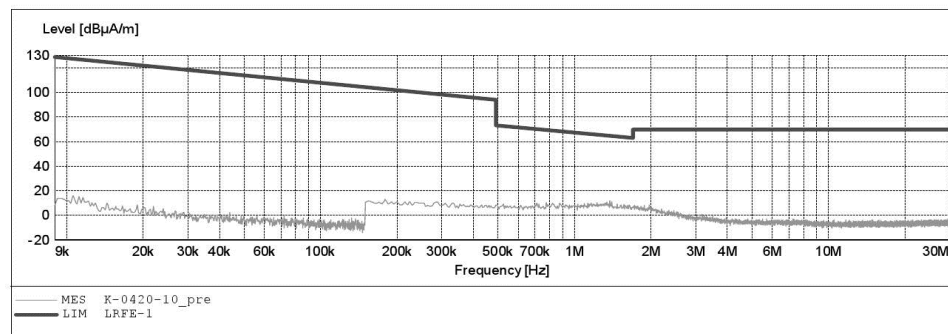
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: ThinkPad Stack Bluetooth Speaker M/N:S123
 Manufacturer: Lenovo
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2015-4-21 /

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



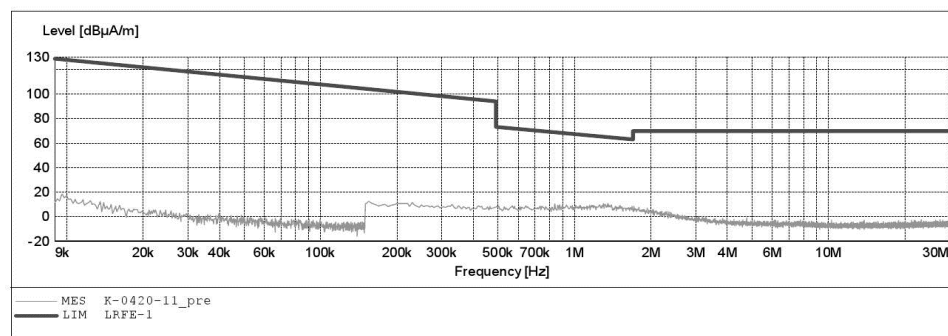
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: ThinkPad Stack Bluetooth Speaker M/N:S123
 Manufacturer: Lenovo
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2015-4-21 /

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



ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: ThinkPad Stack Bluetooth Speaker M/N:S123
 Manufacturer: Lenovo
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2015-4-21 /

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

