Prüfbericht-Nr.: *Test Report No.:*	**17054571 001**	**Auftrags-Nr.:** *Order No.:*	164049653	Seite 1 von 21 *Page 1 of 21*
Kunden-Referenz-Nr.: *Client Reference No.:*	381128	**Auftragsdatum:** *Order date:*	12.10.2015	
Auftraggeber: *Client:*	Lenovo (Beijing) Limited, No. 6, Chuang Ye Road, Shangdi Information Industry Base, Haidian District, Beijing 100085, P.R. China			
Prüfgegenstand: *Test item:*	Lenovo 300 Wireless Compact Mouse			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	L300			
Auftrags-Inhalt: *Order content:*	FCC approval			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.249 FCC KDB publication 447498 D01 v06			

Wareneingangsdatum: *Date of receipt:*	19.11.2015
Prüfmuster-Nr.: *Test sample No.:*	A000283294-001, A000283294-002, A000283294-003
Prüfzeitraum: *Testing period:*	24.11.2015 - 14.12.2015
Ort der Prüfung: *Place of testing:*	Accurate Technology Co., Ltd.
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.
Prüfergebnis*: *Test result*:*	Pass

Refer to photo document

geprüft von / *tested by:*			**kontrolliert von** / *reviewed by:*		
15.12.2015	Lin Lin / Project Manager		15.12.2015	Sam Lin / Technical Certifier	
Datum *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*

Sonstiges / *Other:*
This report is for DXX equipment class.

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *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*

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS
RESULT: Pass

5.1.3 20DB BANDWIDTH AND 99% BANDWIDTH
RESULT: Pass

5.1.4 OUT-OF-BAND EMISSIONS
RESULT: Pass

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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 2.4 GHz Wireless mode

Appendix B: Test Results of RF Exposure - 2.4 GHz Wireless mode

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
Radiated emissions				
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.11, 2016
Test Receiver	Rohde& Schwarz	ESR	101817	Jul. 30, 2016
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.15, 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 basics 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 Appendix 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 Lenovo 2.4 GHz wireless mouse.

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:	Lenovo 300 Wireless Compact Mouse
Type Designation:	L300
FCC ID:	A5ML300
IC:	5903G-L300
Type of Equipment:	Class B digital equipment
Equiupment Class:	DXX
Wireless Technology:	2.4 GHz Wireless
Rated output power:	0 dBm
Operating Frequency Range:	2402-2479 MHz for 2.4 GHz Wireless
Channel Number:	78 channels for 2.4 GHz Wireless
Channel Separation:	1 MHz for 2.4 GHz Wireless
Type of Modulation:	GFSK
Operating Voltage:	DC 1.5V via AA ALKALINE battery
Operating Temperature Range:	0℃ to 40℃
Antenna Type:	Printed PCB Antenna for 2.4 GHz
Smart Antenna Systems:	Not Applicable
Number of Antenna:	1
Antenna Gain:	Max. -0.28dBi

Table 3: List of Radio Frequency Channel, 2.4 GHz Wireless

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00
7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00
9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00
12	2414.00	33	2435.00	54	2456.00	75	2477.00
13	2415.00	34	2436.00	55	2457.00	76	2478.00
14	2416.00	35	2437.00	56	2458.00	77	2479.00
15	2417.00	36	2438.00	57	2459.00	--	--
16	2418.00	37	2439.00	58	2460.00	--	--
17	2419.00	38	2440.00	59	2461.00	--	--
18	2420.00	39	2441.00	60	2462.00	--	--
19	2421.00	40	2442.00	61	2463.00	--	--
20	2422.00	41	2443.00	62	2464.00	--	--

3.3 Independent Operation Modes

The basic operation modes are:

A. 2.4GHz Wireless operating
    1. Transmitting
        a. Low channel
        b. Middle channel
        c. High channel
    2. Receiving
        a. Low channel
        b. Middle channel
        c. High channel

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

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.

Table 4: List of Frequencies under Test, 2.4 GHz Wireless operation

RF channel of 2.4 GHz Wireless			
Test Channel	Channel Number	Frequency (MHz)	Remark
Low	0	2402.00	Max. output power level
Middle	37	2439.00	Max. output power level
High	77	2479.00	Max. output power level

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	ThinkPad X240	PD-01UAM3	Input: DC 20V, 3.25A
Printer	HP	HP Laserjet 1015	CNFG030424	--
2.4 GHz USB Dongle	Lenovo	RG10	--	Input: DC 5V

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 1 GHz

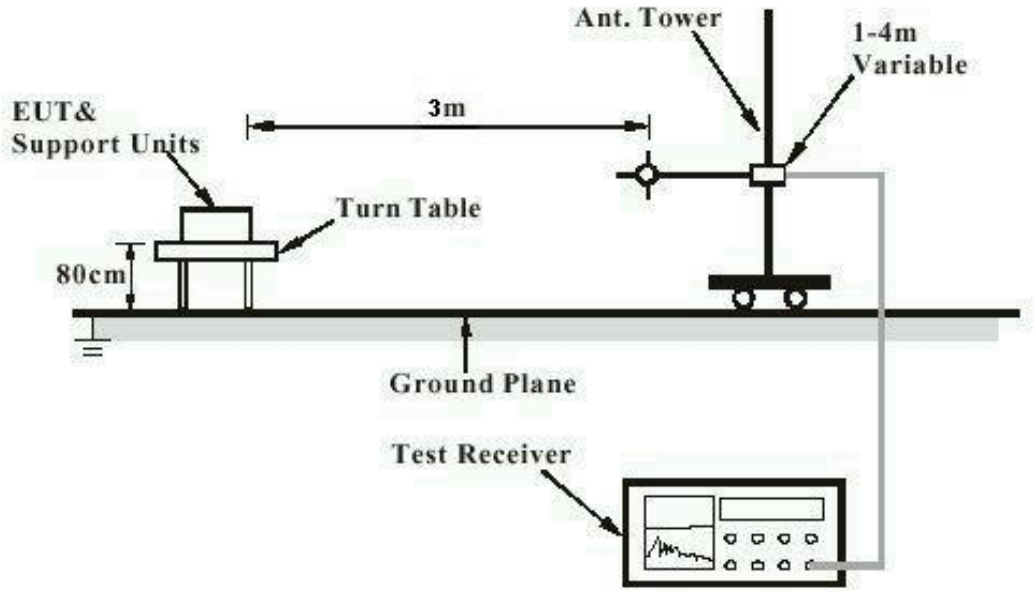


Diagram of Measurement Configuration for Radiation Test above 1 GHz

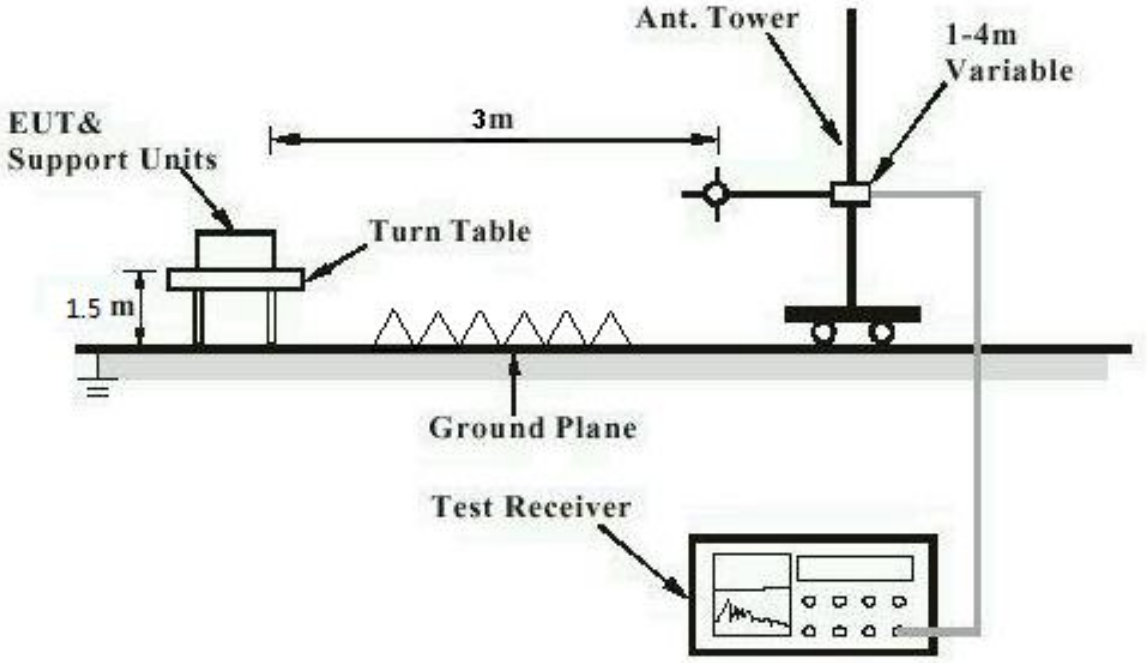


Diagram of Measurement Equipment Configuration for Conduction Measurement

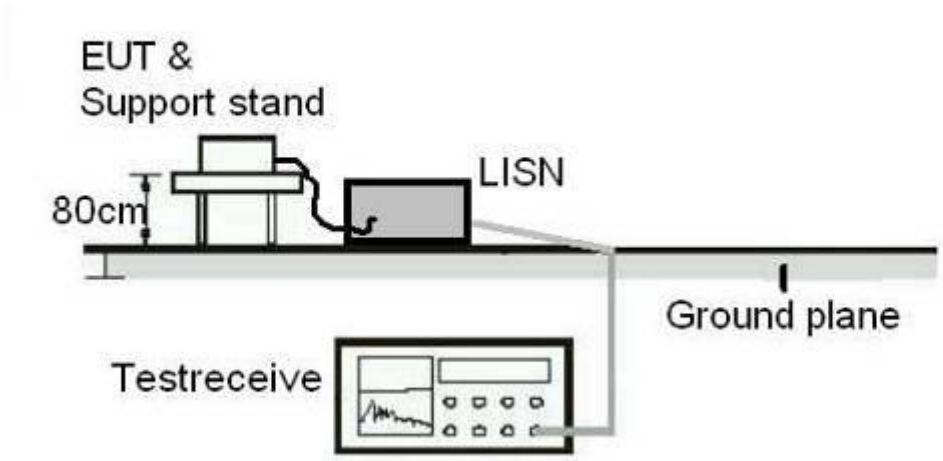
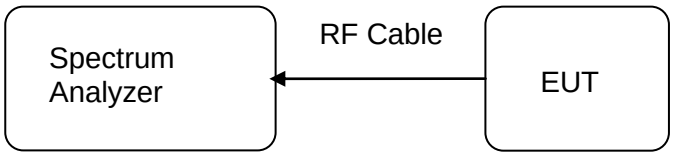


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test date	:	2015-11-24 to 2015-12-04
Test standard	:	Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -0.28 dBi for 2.4 GHz, 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 Field strength of fundamental and harmonics

RESULT: **Pass**

Date of testing	:	2015-11-24 to 2015-12-04
Test standard	:	FCC part 15.249(a) Clause A2.9(a) of RSS-210
Basic standard	:	ANSI C63.10:2013
Limits	:	Refer to 15.249(a) Clause A2.9(a) of RSS-210
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

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

Table 6: Test result of Field strength of fundamental and harmonics, 2.4 GHz Wireless operation

2.4 GHz Wirless						
Test Channel	**Frequency (MHz)**	**Measured Result (dBuV/m)**	**Limit (dBuV/m)**	**Detector**	**Polarity**	**Verdict**
Low	2402	85.16	114	Peak	Horizontal	Pass
		72.39	94	Average		
		84.94	114	Peak	Vertical	Pass
		72.17	94	Average		
Middle	2439	84.94	114	Peak	Horizontal	Pass
		72.17	94	Average		
	4878	43.78	74	Peak		
		31.01	54	Average		
	2439	73.42	114	Peak	Vertical	Pass
		60.65	94	Average		
High	2479	82.00	114	Peak	Horizontal	Pass
		69.23	94	Average		
	4958	44.84	74	Peak		
		32.07	54	Average		
	2479	73.23	114	Peak	Vertical	Pass
		60.46	94	Average		

Note:
1. The average value of fundamental = Peak value + 20*log(Duty cycle).
2. Duty cycle = TX_{on}/TX_{on+off} = 0.23, hence 20*log(Duty cycle) = -12.77dB.

5.1.3 20dB Bandwidth and 99% Bandwidth

RESULT: **Pass**

Date of testing	:	2015-11-24 to 2015-12-14
Test standard	:	FCC part 15.215 Clause 6.6 of RSS-Gen
Basic standard	:	ANSI C63.10:2013
Kind of test site	:	Shielded room

Test setup

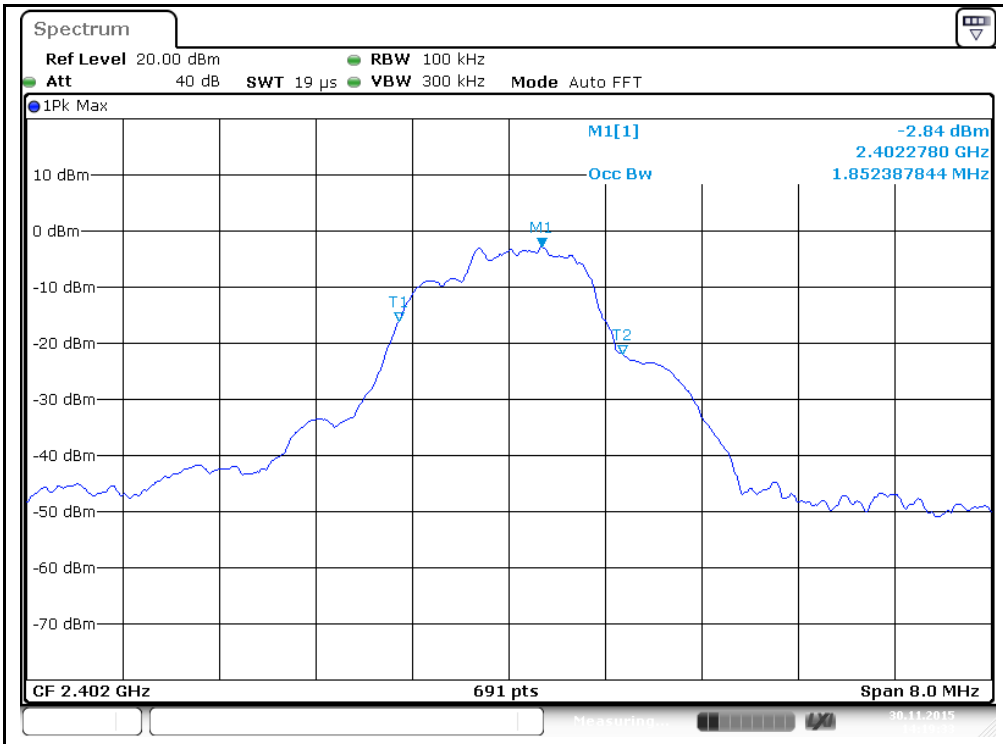
Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	23℃
Relative humidity	:	48%
Atmospheric pressure	:	101.0 kPa

Table 7: Test result of 20dB Bandwidth and 99% Bandwidth, 2.4 GHz Wireless operation

2.4 GHz Wireless				
Channel	**Channel Frequency (MHz)**	**20dB Bandwidth (kHz)**	**99% Bandwidth (kHz)**	**Verdict**
Low Channel	2402	1899.00	1852.39	Pass
Mid Channel	2439	1887.00	1620.84	Pass
High Channel	2479	1957.00	1655.57	Pass

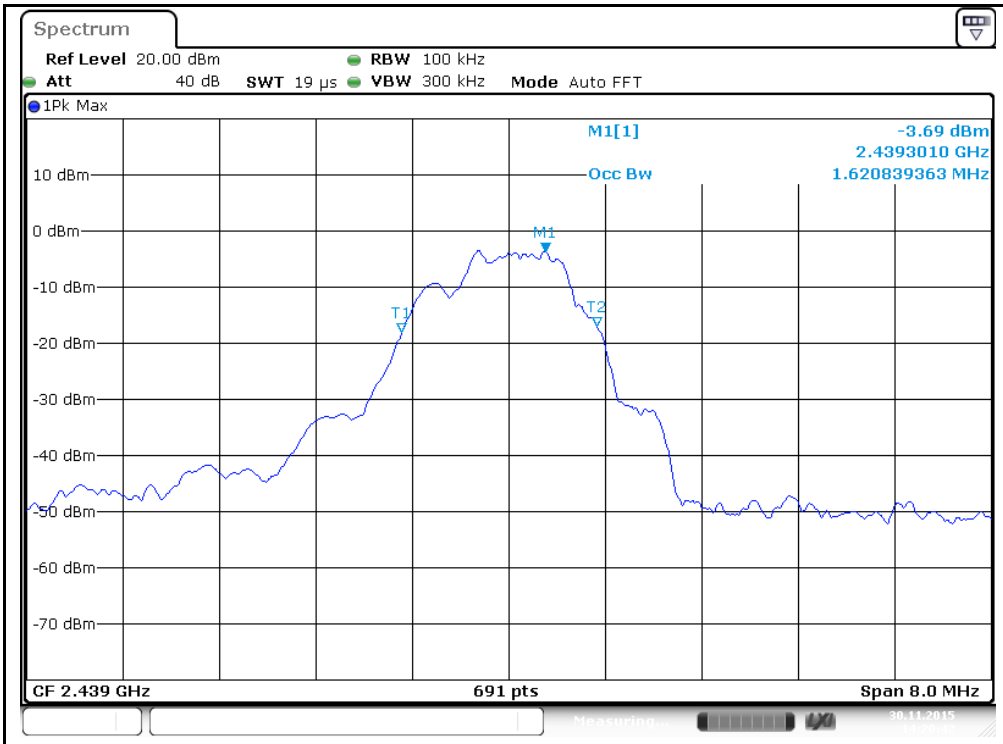
Test Graph of 99% Bandwidth, 2.4 GHz Wireless mode

Low Channel



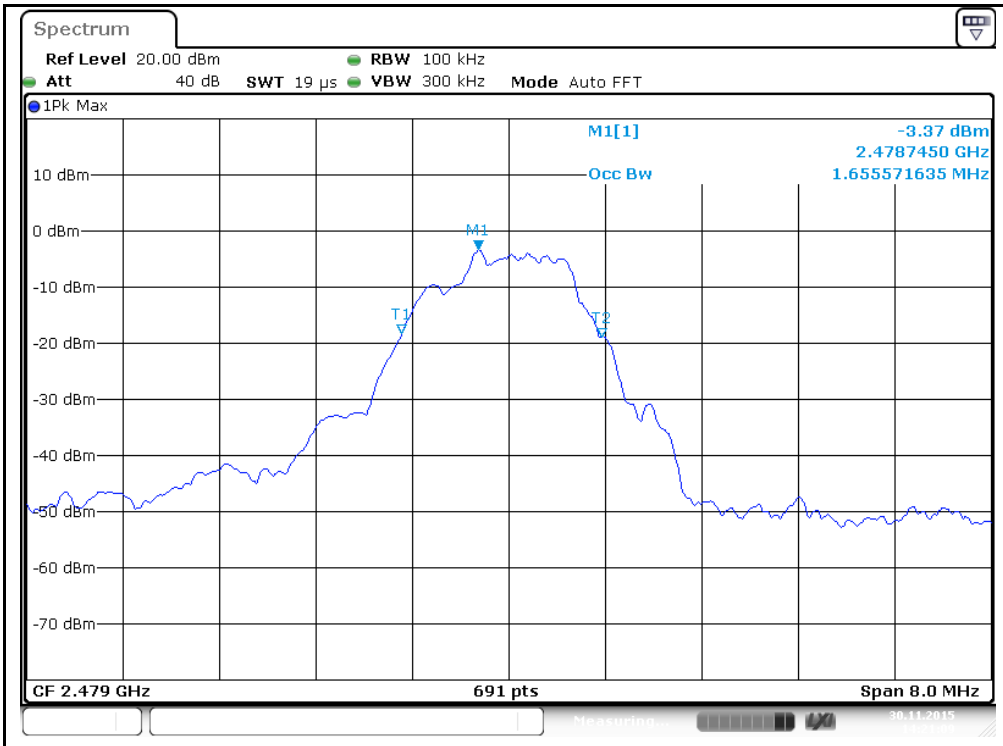
Date: 30.NOV.2015 14:19:33

Middle Channel



Date: 30.NOV.2015 14:20:42

High Channel



Date: 30.NOV.2015 14:21:09

5.1.4 Out-of-band emissions

RESULT: **Pass**

Date of testing	:	2015-11-24 to 2015-12-04
Test standard	:	FCC part 15.249(d) Clause A2.9(b) of RSS-210
Basic standard	:	ANSI C63.10:2013
Limits	:	Refer to 15.249(d) Clause A2.9(b) of RSS-210
Kind of test site	:	3m Semi-Anechoic Chamber & Full-Anechoic Chamber

Test setup

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

Refer to attached Appendix A for details.

7. List of Tables

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Appendix A

Test Results of 2.4 GHz Wireless Mode

APPENDIX A.1: SPURIOUS EMISSIONS OF 2.4 GHZ WIRELESS OPERATION 2
Low Channel 2
Middle Channel 11
High Channel 20
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Low Channel 29
High Channel 31

Appendix A.1: Spurious Emissions of 2.4 GHz Wireless operation

Low Channel

ACCURATE TECHNOLOGY CO.,LTD

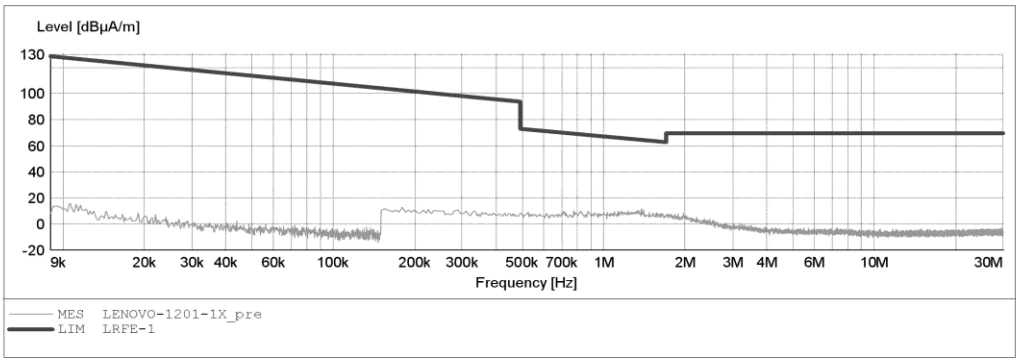
FCC Class B 3m Radiated

```
EUT:                  Lenovo 300 Wireless Compact Mouse M/N:L300
Manufacturer:         Lenovo
Operating Condition:  TX 2402MHz
Test Site:            2# Chamber
Operator:             LAN
Test Specification:   DC 1.5V
Comment:              X
Start of Test:        2015-12-01 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	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

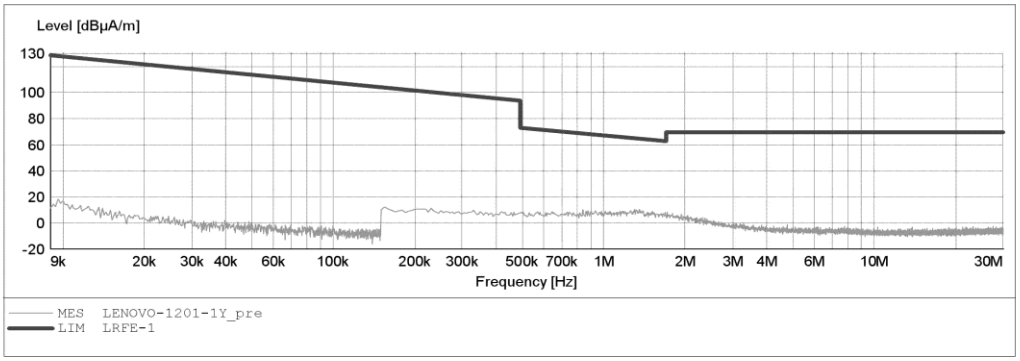
FCC Class B 3m Radiated

```
EUT:                  Lenovo 300 Wireless Compact Mouse M/N:L300
Manufacturer:         Lenovo
Operating Condition:  TX 2402MHz
Test Site:            2# Chamber
Operator:             LAN
Test Specification:   DC 1.5V
Comment:              Y
Start of Test:        2015-12-01 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	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

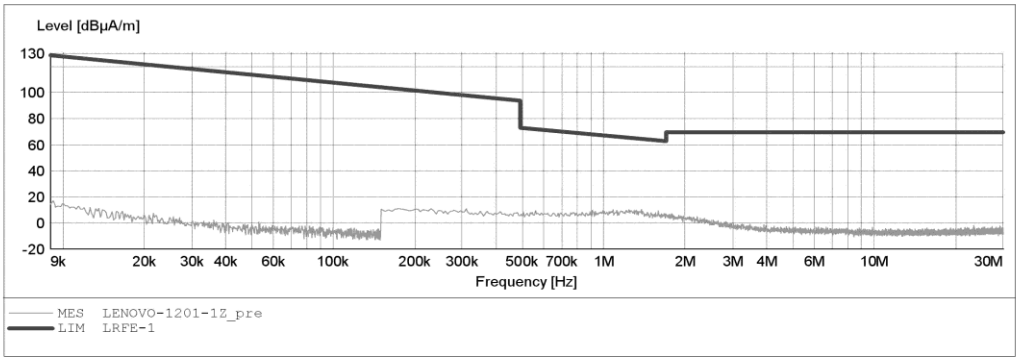
FCC Class B 3m Radiated

```
EUT:                  Lenovo 300 Wireless Compact Mouse M/N:L300
Manufacturer:         Lenovo
Operating Condition:  TX 2402MHz
Test Site:            2# Chamber
Operator:             LAN
Test Specification:   DC 1.5V
Comment:              Z
Start of Test:        2015-12-01 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	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

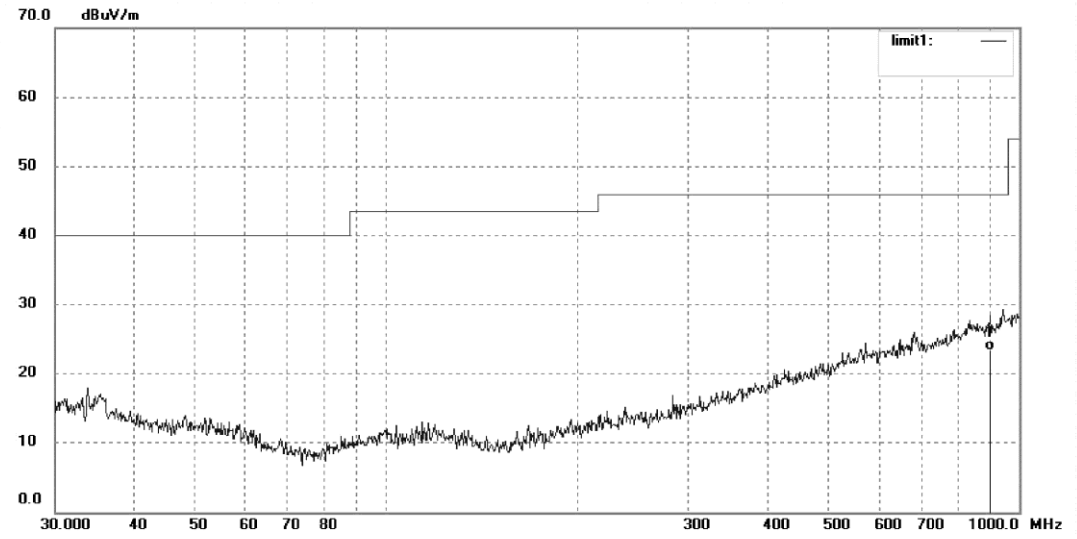


ATC®
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2027
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Lenovo 300 Wireless Compact Mouse
Mode: TX 2402MHz
Model: L300
Manufacturer: Lenovo

Polarization: Horizontal
Power Source: DC 1.5V
Date: 2015-11-30
Time:
Engineer Signature: PEI
Distance: 3m

Note:

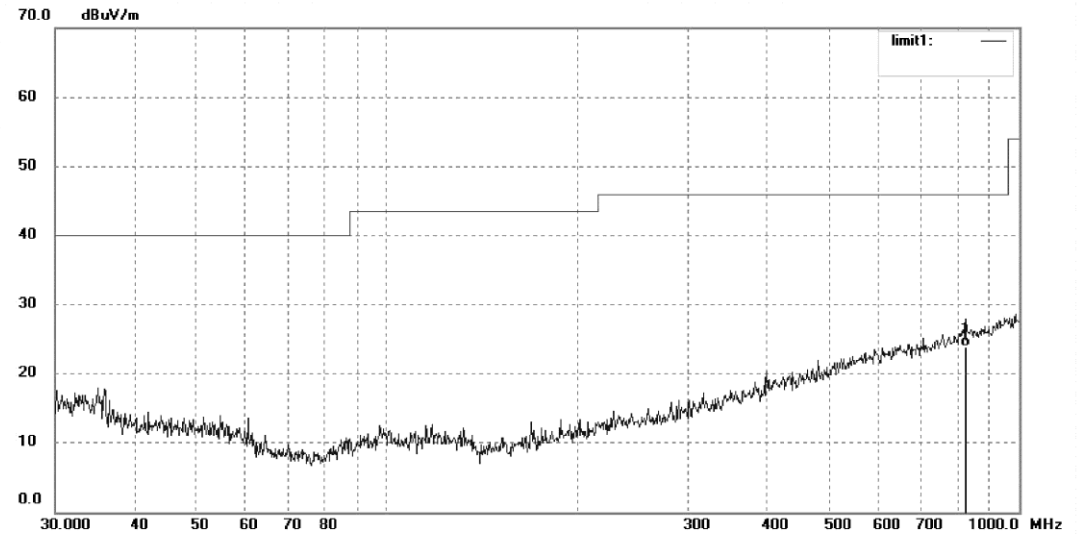


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	900.1473	22.16	1.28	23.44	46.00	-22.56	QP			

ATC®
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 #2028	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	824.5968	23.44	0.42	23.86	46.00	-22.14	QP			

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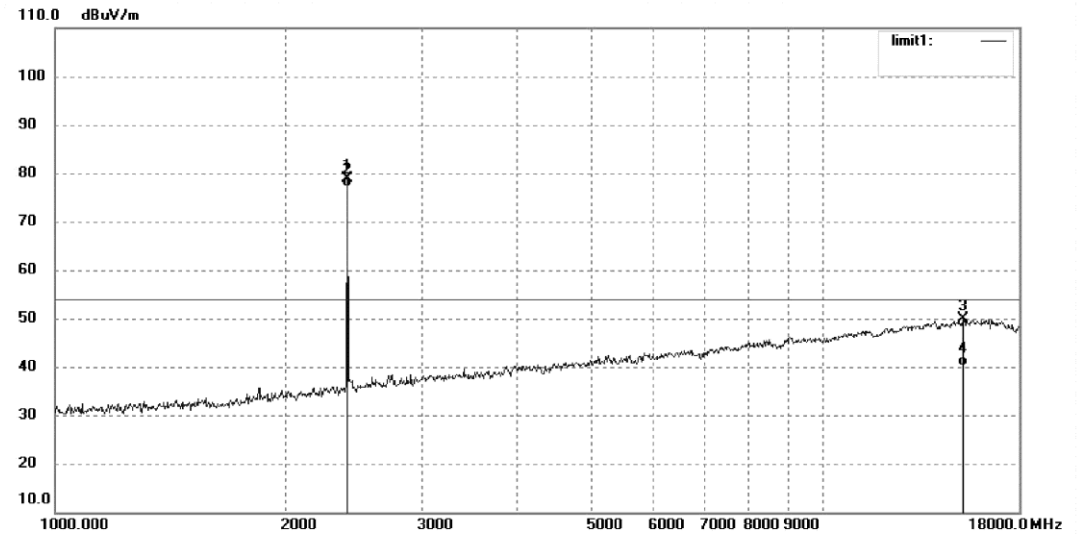
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2033	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



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	86.29	-7.45	78.84	/	/	peak			
2	2402.000	84.46	-7.45	77.01	/	/	AVG			
3	15221.824	9.16	40.66	49.82	74.00	-24.18	peak			
4	15221.824	-0.54	40.66	40.12	54.00	-13.88	AVG			

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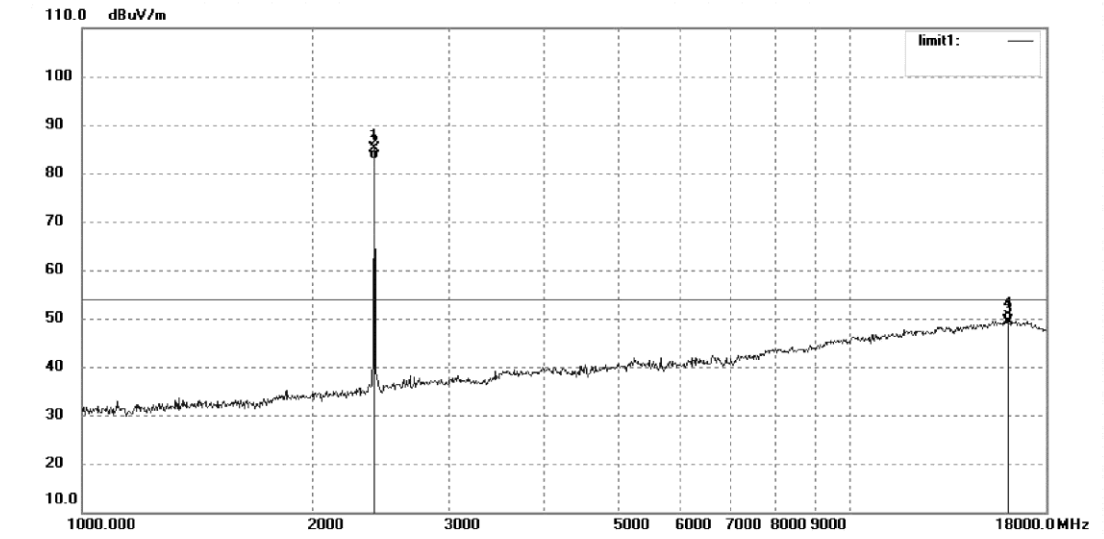
Job No.: Ian2015-2 #2034
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Lenovo 300 Wireless Compact Mouse
Mode: TX 2402MHz
Model: L300
Manufacturer: Lenovo

Polarization: Horizontal
Power Source: DC 1.5V
Date: 2015-11-30
Time:
Engineer Signature: PEI
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	2402.000	92.61	-7.45	85.16	/	/	peak			
2	2402.000	90.37	-7.45	82.92	/	/	AVG			
3	16081.142	9.41	40.05	49.46	74.00	-24.54	peak			
4	16081.142	9.41	40.05	49.46	54.00	-4.54	AVG			

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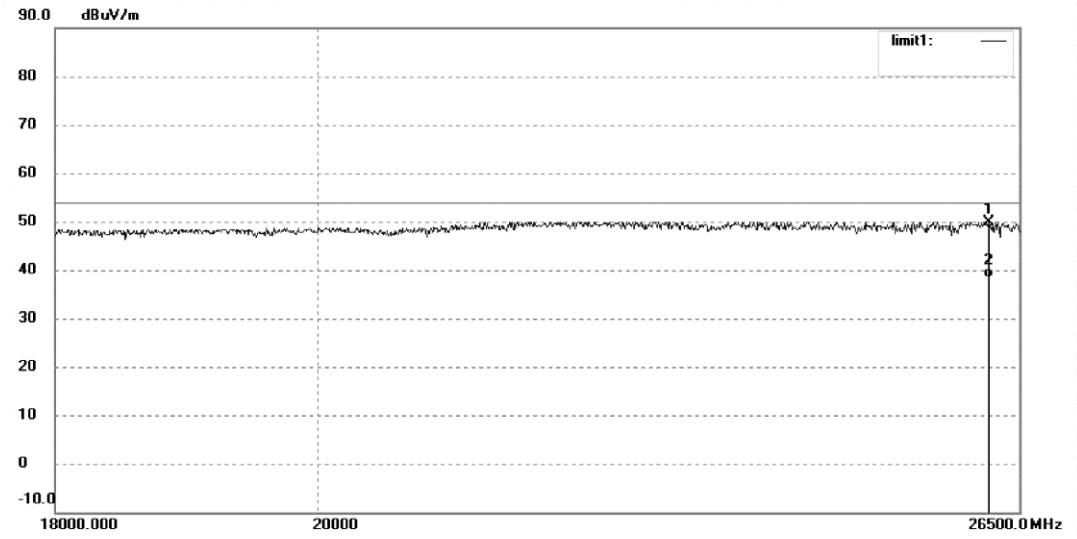
Job No.: Ian2015-2 #2043
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Lenovo 300 Wireless Compact Mouse
Mode: TX 2402MHz
Model: L300
Manufacturer: Lenovo

Polarization: Horizontal
Power Source: DC 1.5V
Date: 2015-11-30
Time:
Engineer Signature: PEI
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	26184.163	33.48	16.50	49.98	74.00	-24.02	peak			
2	26184.163	21.87	16.50	38.37	54.00	-15.63	AVG			

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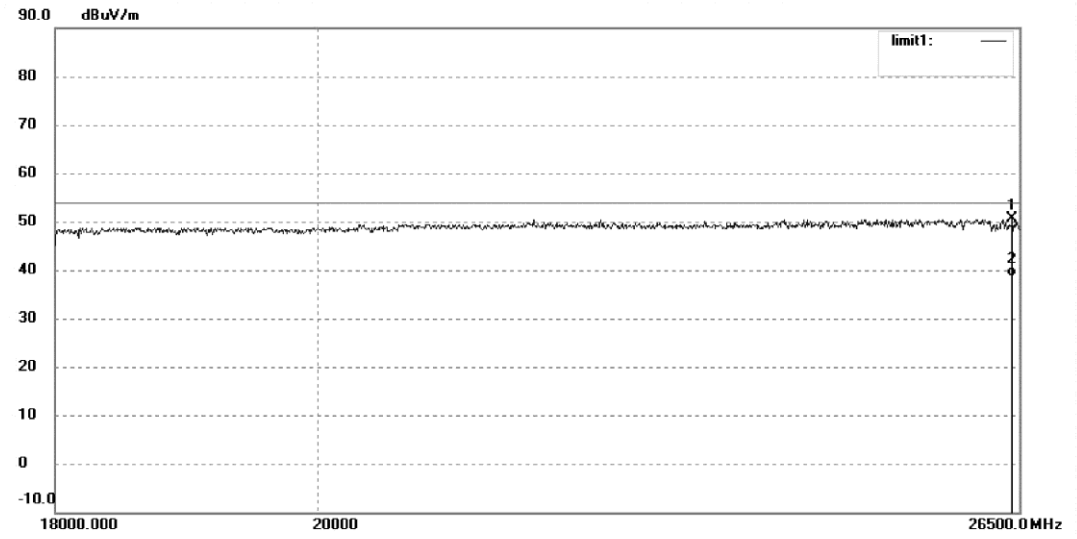
Job No.: Ian2015-2 #2044	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26428.351	34.03	16.50	50.53	74.00	-23.47	peak			
2	26428.351	22.10	16.50	38.60	54.00	-15.40	AVG			

Middle Channel

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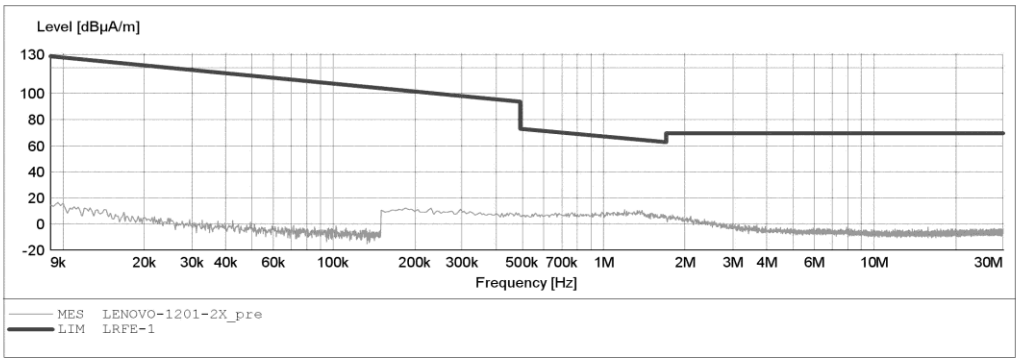
FCC Class B 3m Radiated

```
EUT:                  Lenovo 300 Wireless Compact Mouse M/N:L300
Manufacturer:         Lenovo
Operating Condition:  TX 2439MHz
Test Site:            2# Chamber
Operator:             LAN
Test Specification:   DC 1.5V
Comment:              X
Start of Test:        2015-12-01 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	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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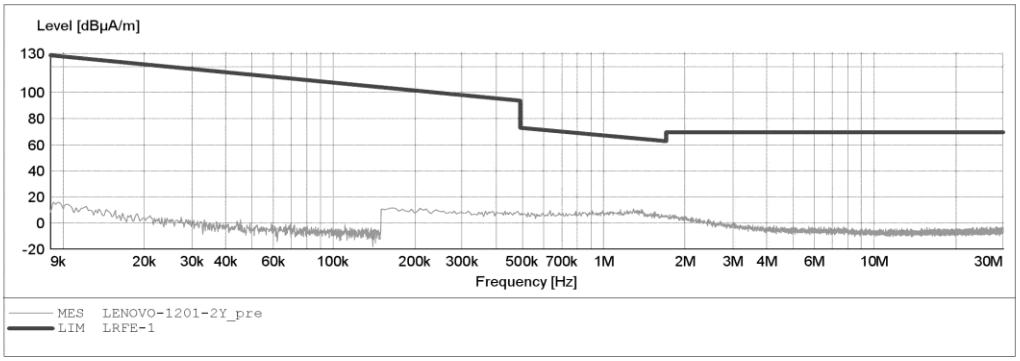
FCC Class B 3m Radiated

```
EUT:                  Lenovo 300 Wireless Compact Mouse M/N:L300
Manufacturer:         Lenovo
Operating Condition:  TX 2439MHz
Test Site:            2# Chamber
Operator:             LAN
Test Specification:   DC 1.5V
Comment:              Y
Start of Test:        2015-12-01 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	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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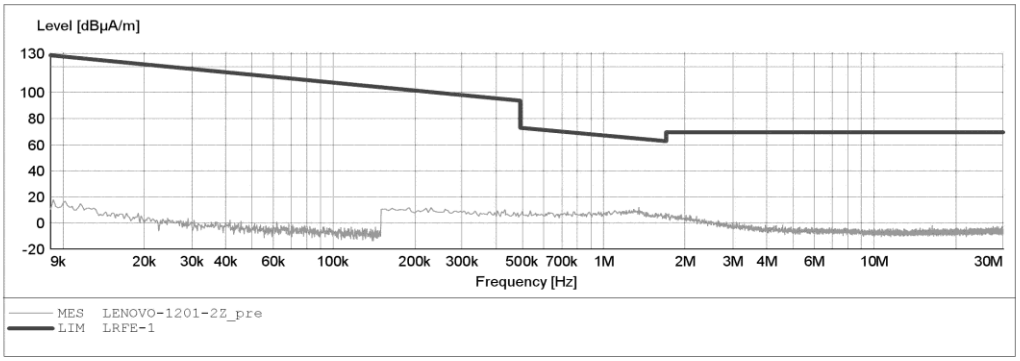
FCC Class B 3m Radiated

```
EUT:                  Lenovo 300 Wireless Compact Mouse M/N:L300
Manufacturer:         Lenovo
Operating Condition:  TX 2439MHz
Test Site:            2# Chamber
Operator:             LAN
Test Specification:   DC 1.5V
Comment:              Z
Start of Test:        2015-12-01 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	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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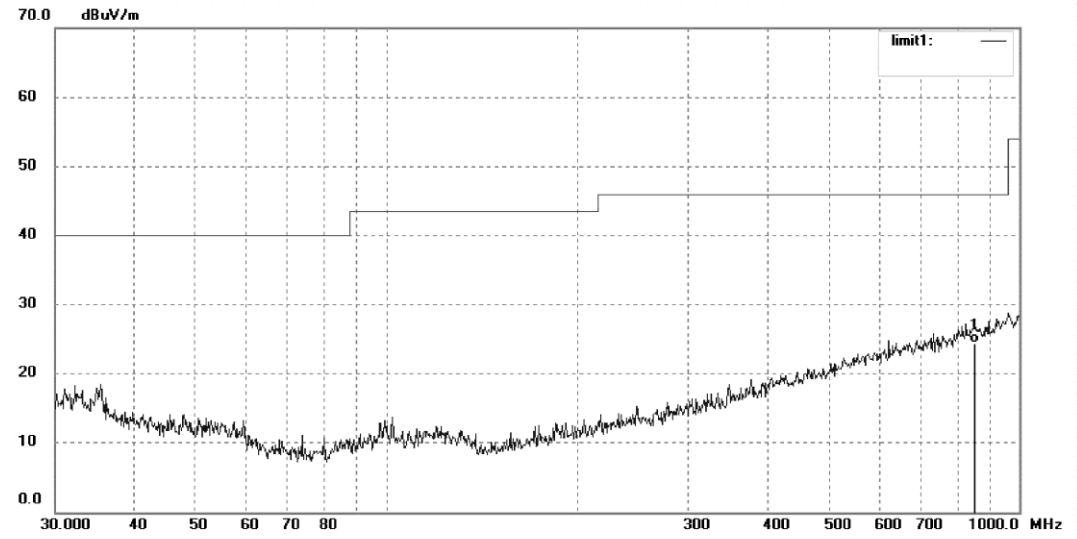
Job No.: Ian2015-2 #2029	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2439MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	851.0353	23.65	0.72	24.37	46.00	-21.63	QP			

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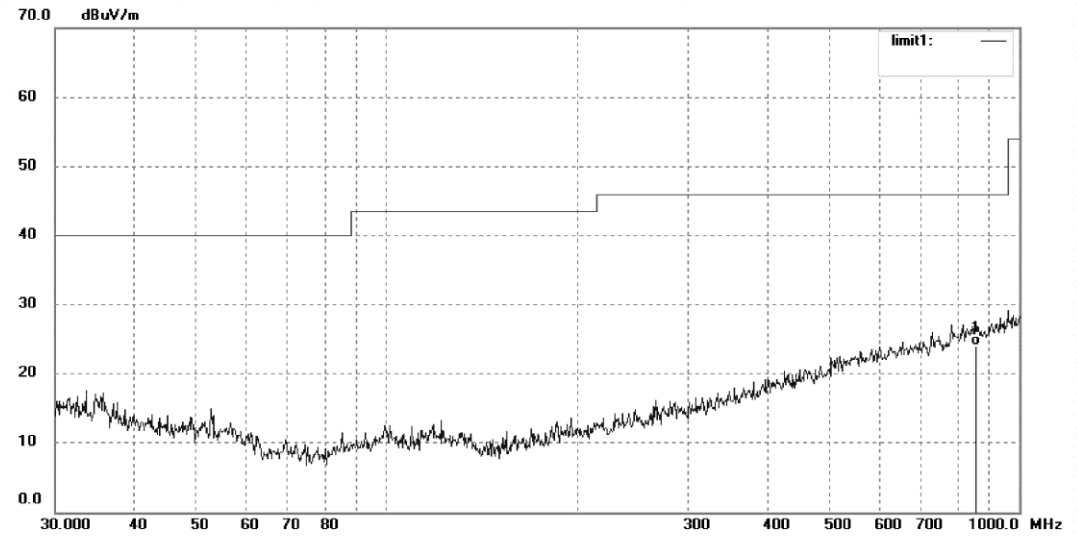
Job No.: Ian2015-2 #2030	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2439MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	854.0247	23.40	0.74	24.14	46.00	-21.86	QP			

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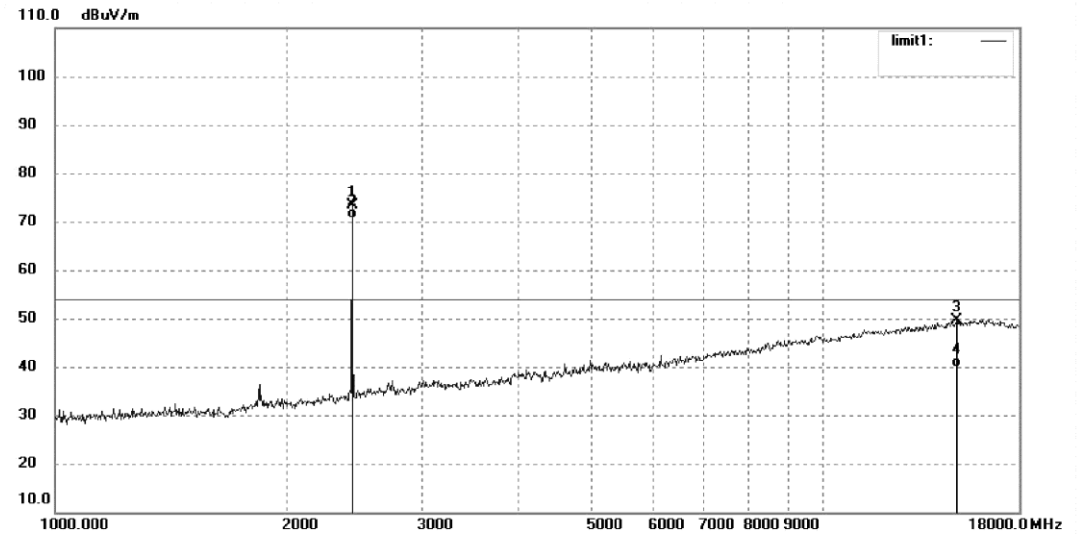
Job No.: Ian2015-2 #2037	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2439MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2439.000	80.78	-7.36	73.42	/	/	peak			
2	2439.000	78.05	-7.36	70.69	/	/	AVG			
3	14916.942	8.33	41.35	49.68	74.00	-24.32	peak			
4	14916.942	-1.46	41.35	39.89	54.00	-14.11	AVG			

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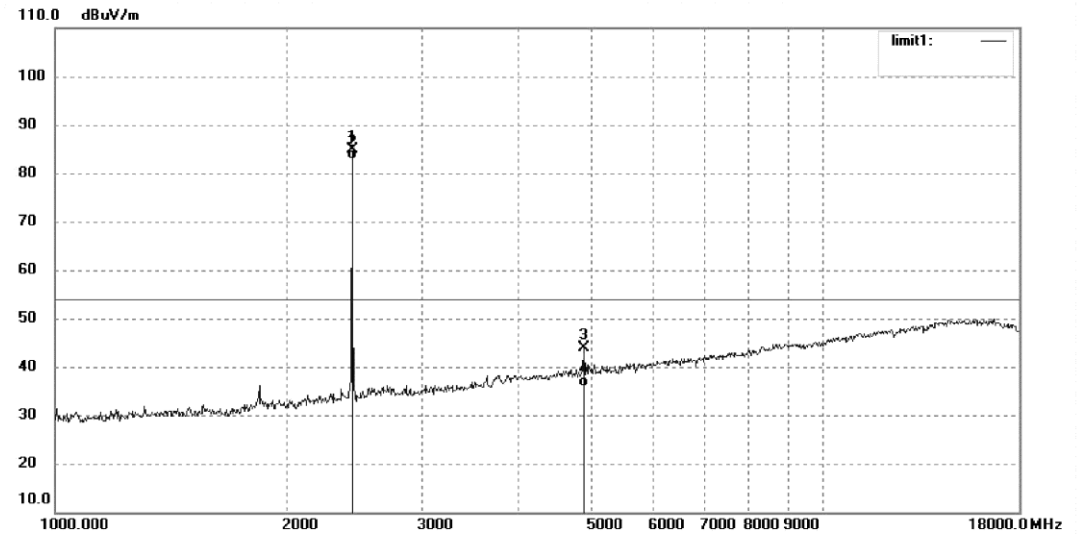
Job No.: Ian2015-2 #2038	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2439MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2439.000	92.30	-7.36	84.94	/	/	peak			
2	2439.000	90.12	-7.36	82.76	/	/	AVG			
3	4878.022	43.67	0.11	43.78	74.00	-30.22	peak			
4	4878.022	35.78	0.11	35.89	54.00	-18.11	AVG			

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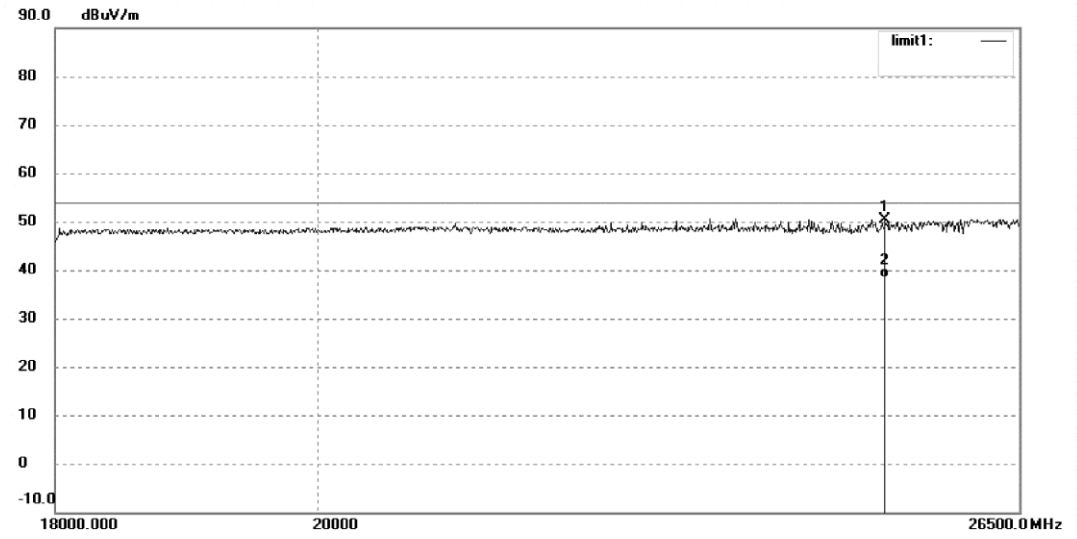
Job No.: Ian2015-2 #2045
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Lenovo 300 Wireless Compact Mouse
Mode: TX 2439MHz
Model: L300
Manufacturer: Lenovo

Polarization: Vertical
Power Source: DC 1.5V
Date: 2015-11-30
Time:
Engineer Signature: PEI
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	25112.941	33.99	16.50	50.49	74.00	-23.51	peak			
2	25112.941	21.84	16.50	38.34	54.00	-15.66	AVG			

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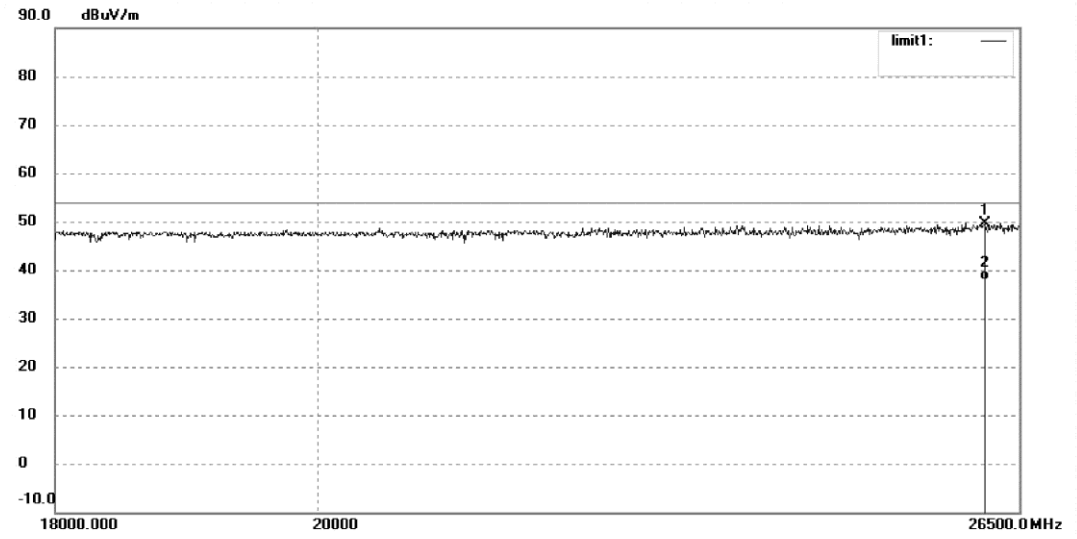
Job No.: Ian2015-2 #2046	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2439MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26133.575	33.17	16.50	49.67	74.00	-24.33	peak			
2	26133.575	21.45	16.50	37.95	54.00	-16.05	AVG			

High Channel

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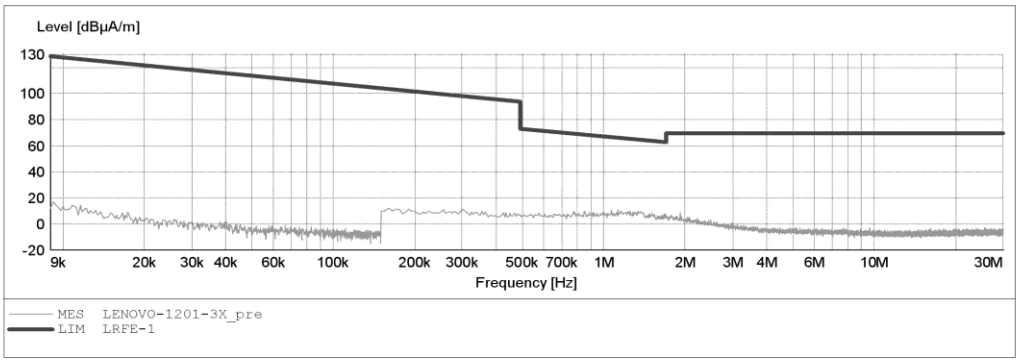
FCC Class B 3m Radiated

```
EUT:                  Lenovo 300 Wireless Compact Mouse M/N:L300
Manufacturer:         Lenovo
Operating Condition:  TX 2479MHz
Test Site:            2# Chamber
Operator:             LAN
Test Specification:   DC 1.5V
Comment:              X
Start of Test:        2015-12-01 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	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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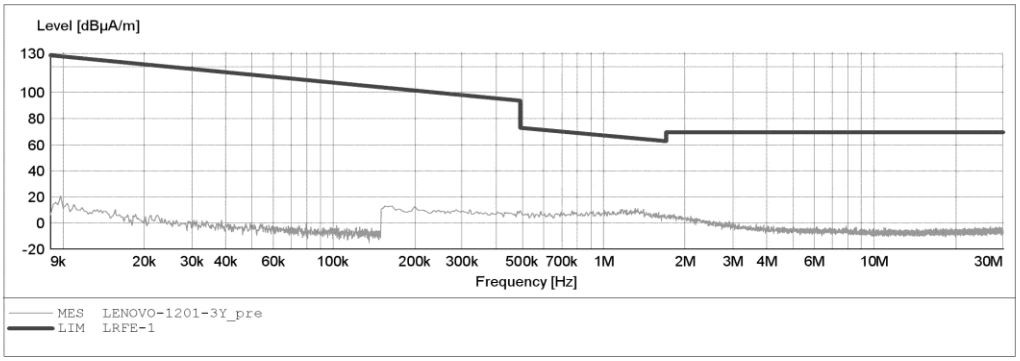
FCC Class B 3m Radiated

```
EUT:                  Lenovo 300 Wireless Compact Mouse M/N:L300
Manufacturer:         Lenovo
Operating Condition:  TX 2479MHz
Test Site:            2# Chamber
Operator:             LAN
Test Specification:   DC 1.5V
Comment:              Y
Start of Test:        2015-12-01 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	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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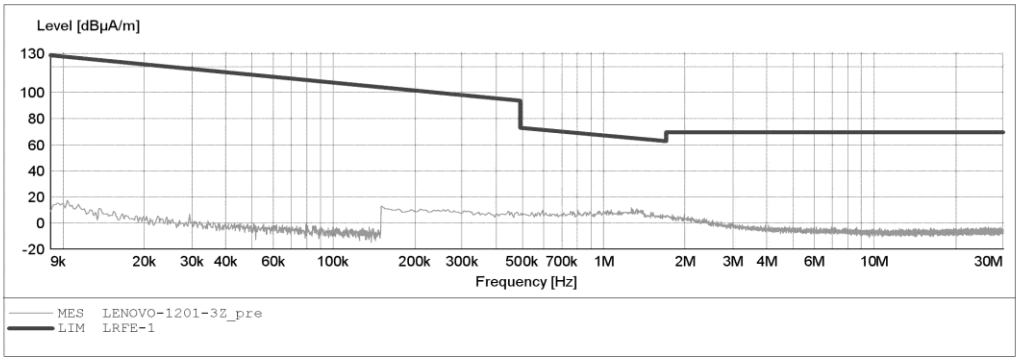
FCC Class B 3m Radiated

```
EUT:                  Lenovo 300 Wireless Compact Mouse M/N:L300
Manufacturer:         Lenovo
Operating Condition:  TX 2479MHz
Test Site:            2# Chamber
Operator:             LAN
Test Specification:   DC 1.5V
Comment:              Z
Start of Test:        2015-12-01 /
```

SCAN TABLE: "LFRE 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   1516M
  150.0 kHz  30.0 MHz   5.0 kHz    QuasiPeak 1.0 s     9 kHz    1516M
```



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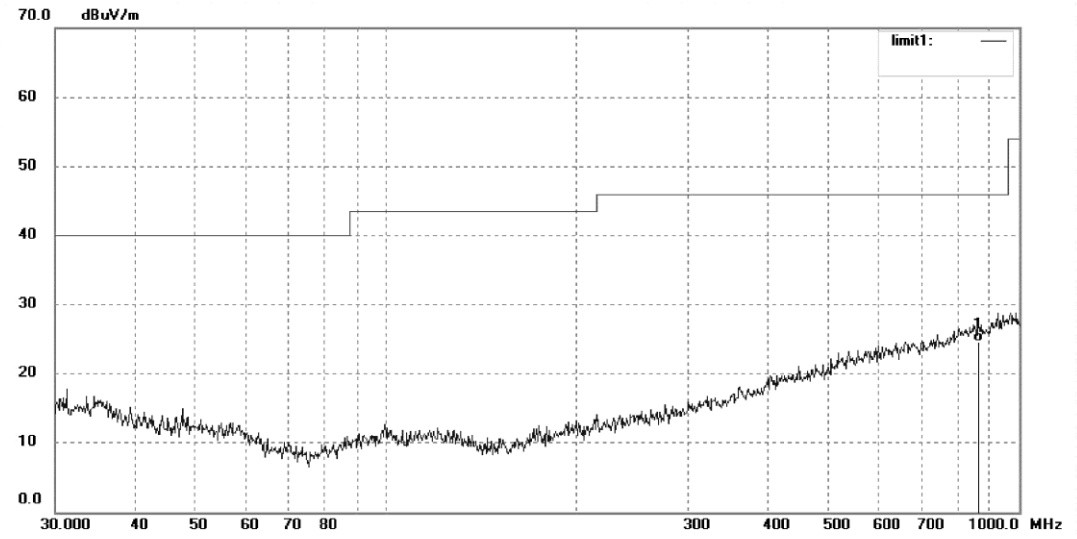
Job No.: Ian2015-2 #2031	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2479MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	863.0561	23.67	0.96	24.63	46.00	-21.37	QP			

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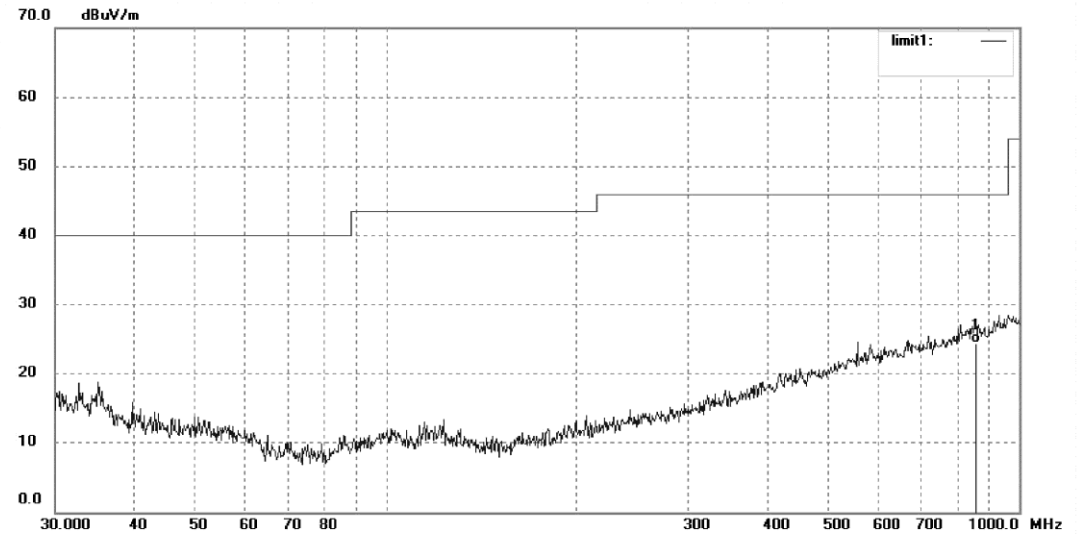
Job No.: Ian2015-2 #2032	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2479MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	854.0247	23.75	0.74	24.49	46.00	-21.51	QP			

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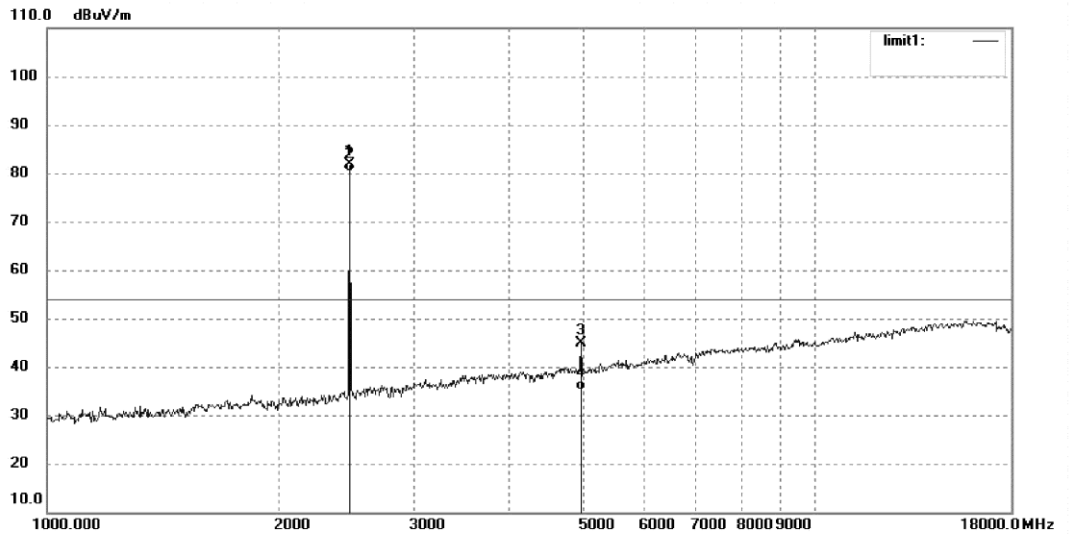
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2039	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2479MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	89.37	-7.37	82.00	/	/	peak			
2	2479.000	87.86	-7.37	80.49	/	/	AVG			
3	4958.027	44.33	0.51	44.84	74.00	-29.16	peak			
4	4958.027	34.51	0.51	35.02	54.00	-18.98	AVG			

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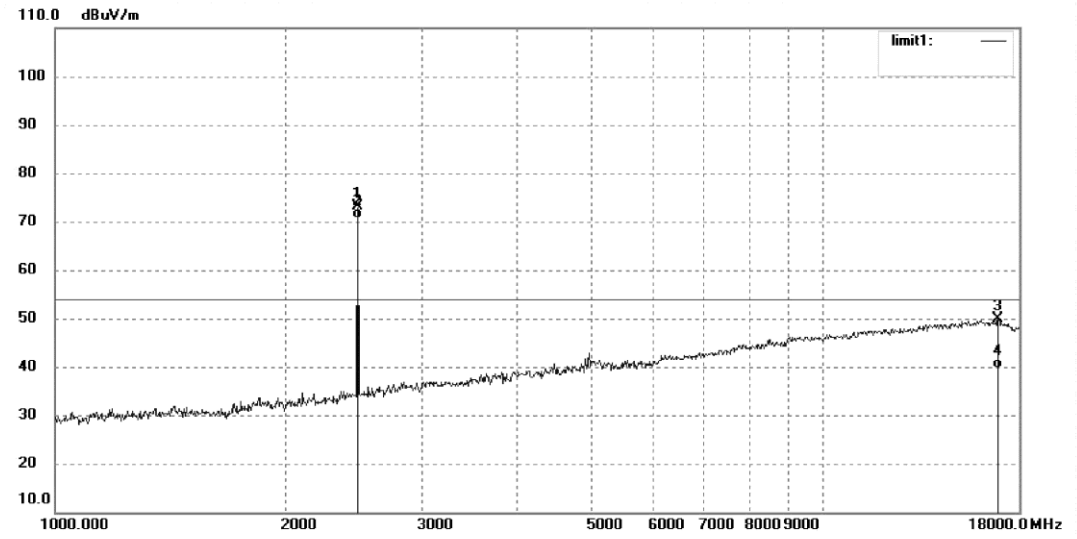
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2040
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Lenovo 300 Wireless Compact Mouse
Mode: TX 2479MHz
Model: L300
Manufacturer: Lenovo

Polarization: Vertical
Power Source: DC 1.5V
Date: 2015-11-30
Time:
Engineer Signature: PEI
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	2479.000	80.60	-7.37	73.23	/	/	peak			
2	2479.000	78.05	-7.37	70.68	/	/	AVG			
3	16891.045	8.61	41.39	50.00	74.00	-24.00	peak			
4	16891.045	-1.87	41.39	39.52	54.00	-14.48	AVG			

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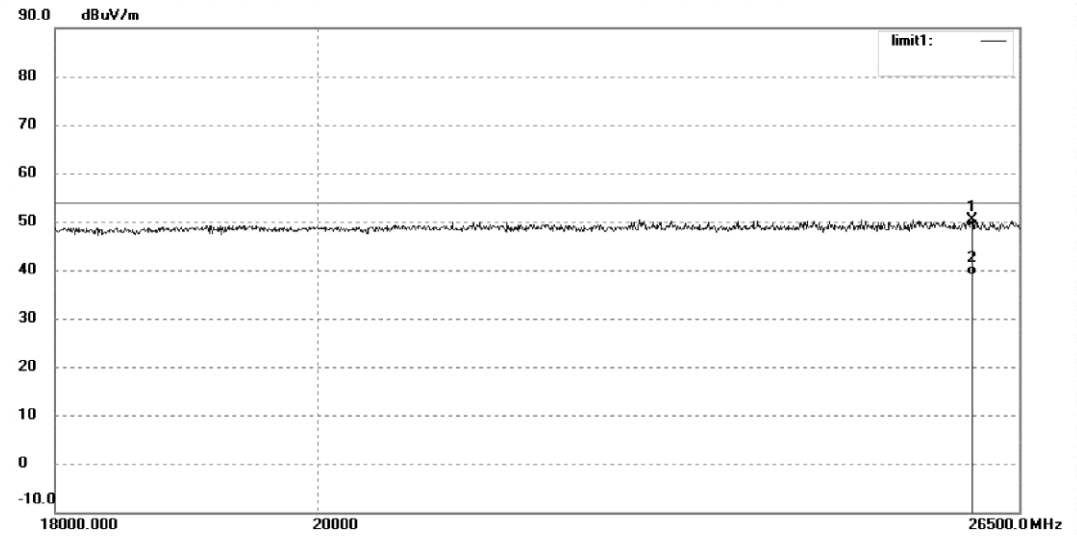
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2047
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Lenovo 300 Wireless Compact Mouse
Mode: TX 2479MHz
Model: L300
Manufacturer: Lenovo

Polarization: Horizontal
Power Source: DC 1.5V
Date: 2015-11-30
Time:
Engineer Signature: PEI
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	26002.504	33.85	16.50	50.35	74.00	-23.65	peak			
2	26002.504	22.31	16.50	38.81	54.00	-15.19	AVG			

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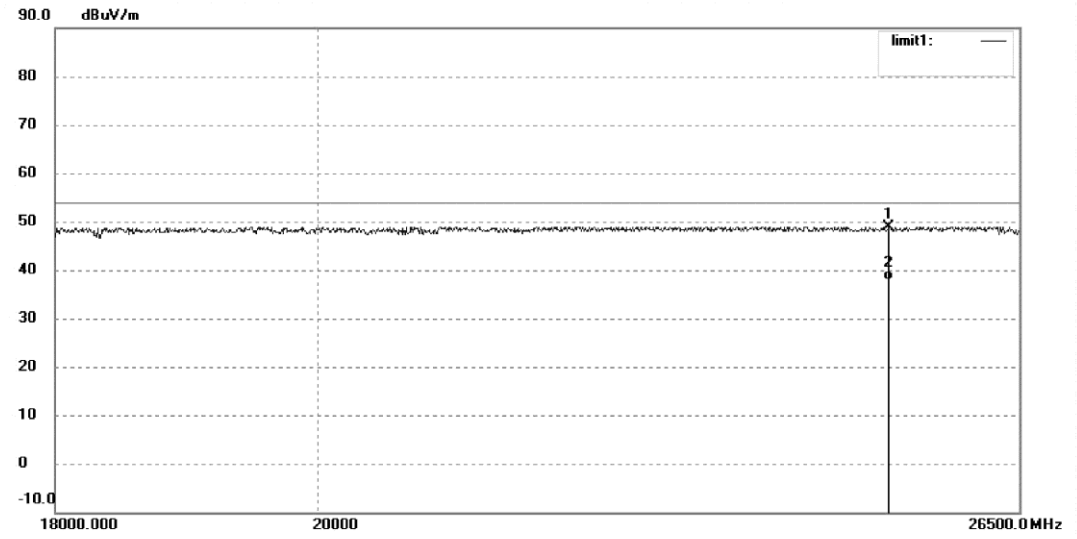
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2048	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2479MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25151.823	32.49	16.50	48.99	74.00	-25.01	peak			
2	25151.823	21.33	16.50	37.83	54.00	-16.17	AVG			

Appendix A.2: Radiated Emissions in Restricted Bands - 2.4 GHz Wireless operation

Low Channel

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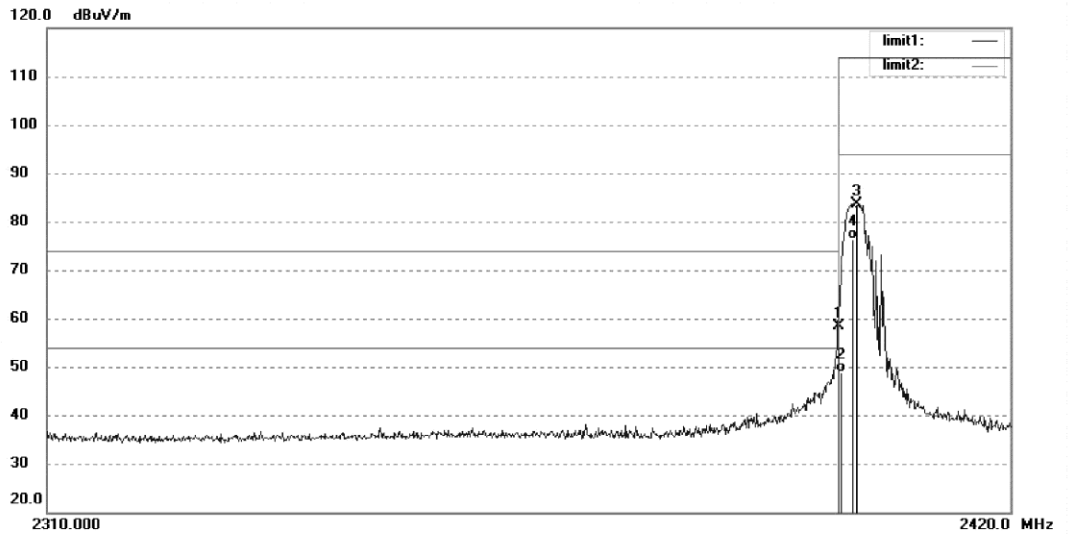
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2035	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	65.82	-7.46	58.36	74.00	-15.64	peak			
2	2400.000	56.42	-7.46	48.96	54.00	-5.04	AVG			
3	2402.000	91.06	-7.45	83.61	114.00	-30.39	peak			
4	2402.000	83.78	-7.45	76.33	94.00	-17.67	AVG			

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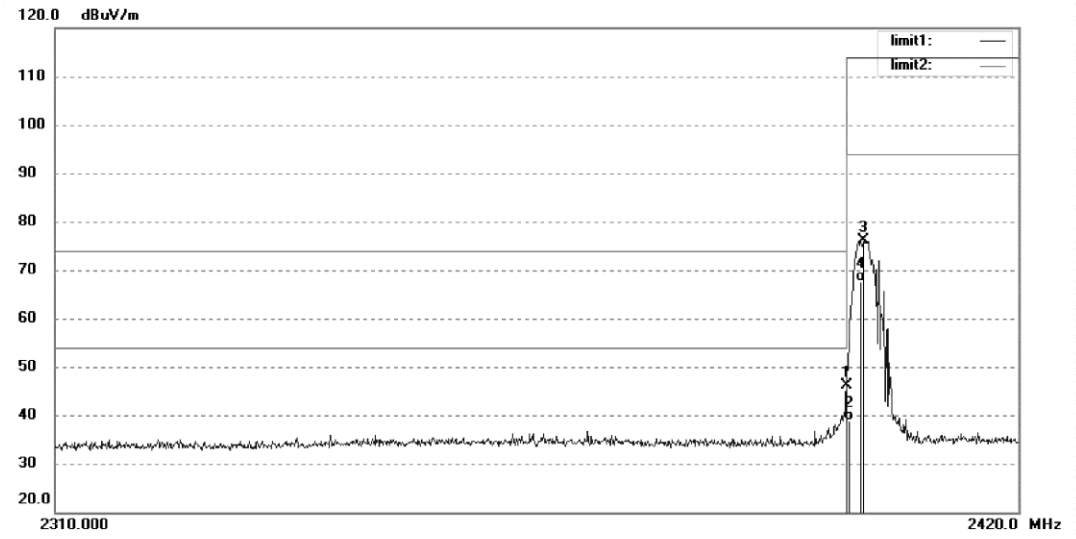
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2036	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	53.59	-7.46	46.13	74.00	-27.87	peak			
2	2400.000	46.35	-7.46	38.89	54.00	-15.11	AVG			
3	2402.000	83.48	-7.45	76.03	114.00	-37.97	peak			
4	2402.000	74.97	-7.45	67.52	94.00	-26.48	AVG			

High Channel

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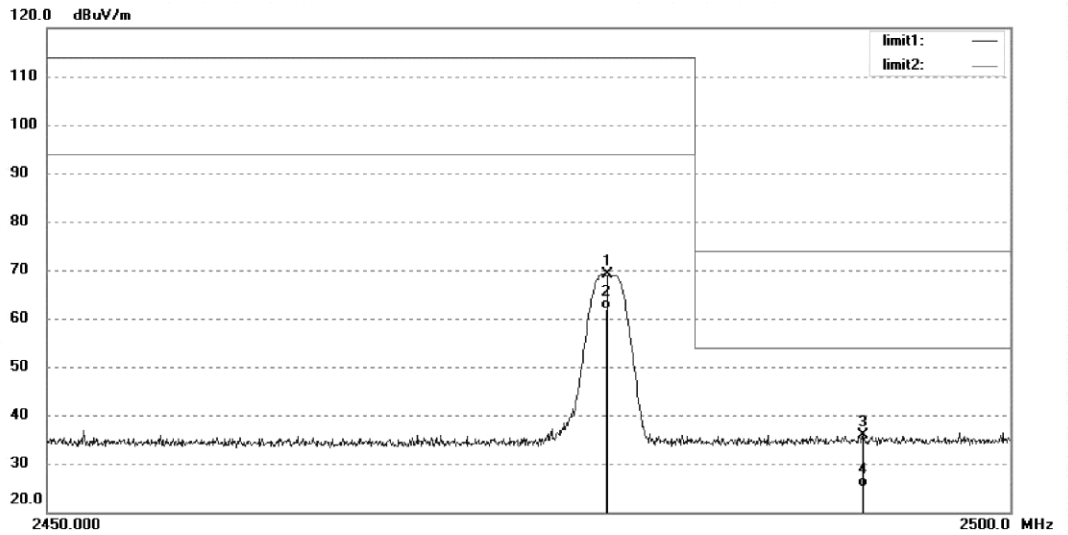
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2041	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2479MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	76.39	-7.37	69.02	114.00	-44.98	peak			
2	2479.000	69.16	-7.37	61.79	94.00	-32.21	AVG			
3	2492.300	43.26	-7.39	35.87	74.00	-38.13	peak			
4	2492.300	32.49	-7.39	25.10	54.00	-28.90	AVG			

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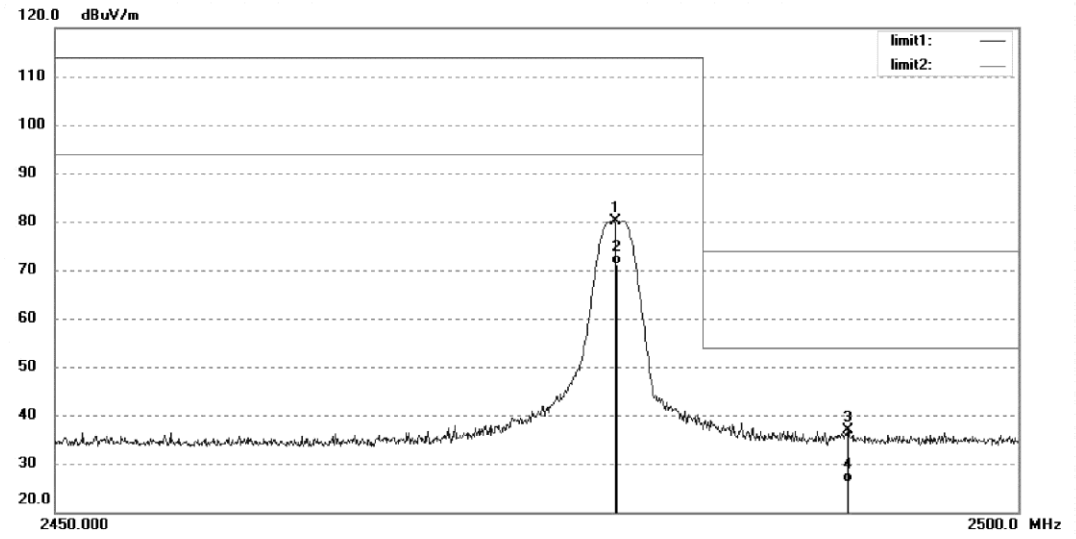
Fax:+86-0755-26503396

Job No.: Ian2015-2 #2042	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 1.5V
Test item: Radiation Test	Date: 2015-11-30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 300 Wireless Compact Mouse	Engineer Signature: PEI
Mode: TX 2479MHz	Distance: 3m
Model: L300	
Manufacturer: Lenovo	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	87.62	-7.37	80.25	114.00	-33.75	peak			
2	2479.000	78.57	-7.37	71.20	94.00	-22.80	AVG			
3	2491.100	44.34	-7.38	36.96	74.00	-37.04	peak			
4	2491.100	33.49	-7.38	26.11	54.00	-27.89	AVG			

Appendix B

Test Results of RF Exposure - 2.4 GHz Wireless Mode

APPENDIX B.1: RF EXPOSURE COMPLIANCE 2

Appendix B.1: RF Exposure Compliance

Radio Frequency Exposure Compliance

RESULT: **Pass**

Test standard	**:**	FCC 1.1310 RSS-102 Issue 5 KDB 447498 D01 General RF Exposure Guidance v06

This device is 2.4 GHz wireless device.

Since the maximum peak output power of the transmitter is 0.60 mw, and the separation between body and antenna is 5 mm. The maximum peak output power is less than 10mW (FCC Limit) and 4mW (IC Limit), hence the EUT is exclueded from SAR evaluation according to FCC KDB 447498 D01: Mobile Portable RF Exposure and RSS-102 Issue 5.