

Prüfbericht-Nr.: <i>Test Report No.:</i>	50063612 001	Auftrags-Nr.: <i>Order No.:</i>	164077661	Seite 1 von 22 Page 1 of 22
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	334006	Auftragsdatum: <i>Order date:</i>	02.11.2016	
Auftraggeber: <i>Client:</i>	Primax Electronics Ltd., No. 669, Ruey Kuang Rd., Neihsu, Taipei 114, Taiwan, R.O.C.			
Prüfgegenstand: <i>Test item:</i>	Lenovo Essential Wireless Keyboard			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	KBRFBU71			
Auftrags-Inhalt: <i>Order content:</i>	FCC & IC approval			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249 RSS-210 Issue 9 August 2016 RSS-Gen Issue 4 November 2014			
Wareneingangsdatum: <i>Date of receipt:</i>	01.11.2016	Refer to photo document		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000449456-001, A000449456-002			
Prüfzeitraum: <i>Testing period:</i>	09.11.2016 - 25.11.2016			
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:		
25.11.2016	Sam Lin / Assistant Manager	25.11.2016	Winnie Hou / 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>
Sonstiges / Other: This report is for DXX equipment class. FCC ID: EMJKKBRFBU71 IC: 4251A-KKBRFBU71 HVIN: KBRFBU71				
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
	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
	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 Report No.

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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

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. 09, 2017
Radiated emissions				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	Jan. 09, 2017
Test Receiver	Rohde& Schwarz	ESCS30	100307	Jul. 09, 2017
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.14, 2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 14, 2017
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan. 09, 2017
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 09, 2017

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 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 2.4GHz wireless keyboard.

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 Essential Wireless Keyboard
Type Designation:	KBRFBU71
FCC ID:	EMJKKBRFBU71
IC:	4251A-KKBRFBU71
HVIN:	KBRFBU71
Type of Equipment:	Class B digital equipment
Equipment 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 3V via AA ALKALINE battery
Operating Temperature Range:	0°C to 40°C
Antenna Type:	Printed PCB Antenna for 2.4 GHz
Smart Antenna Systems:	Not Applicable
Number of Antenna:	1
Antenna Gain:	Max. -4.47dBi

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	39	2441.00	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	MORFFHL-D	--	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

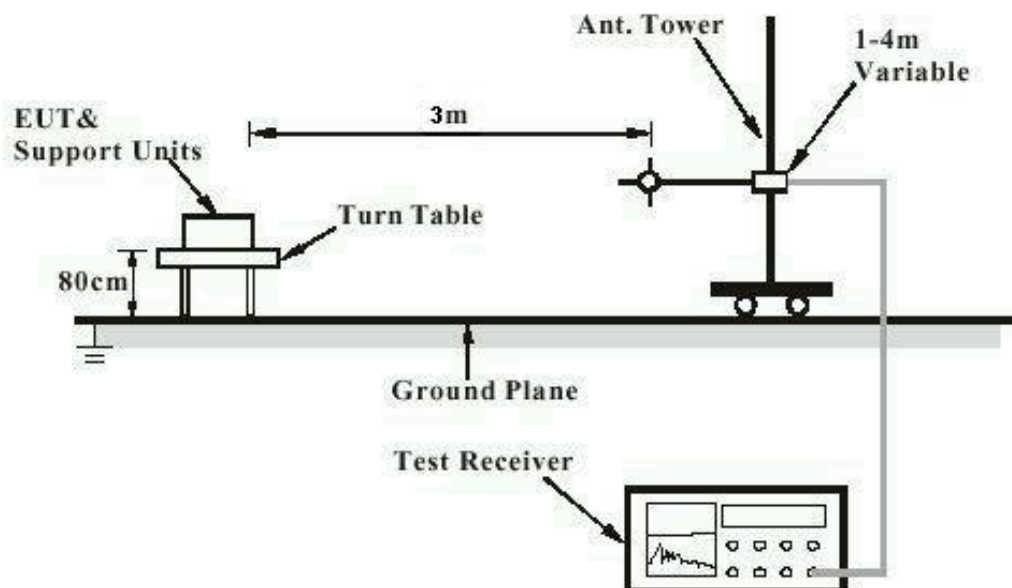


Diagram of Measurement Configuration for Radiation Test above 1 GHz

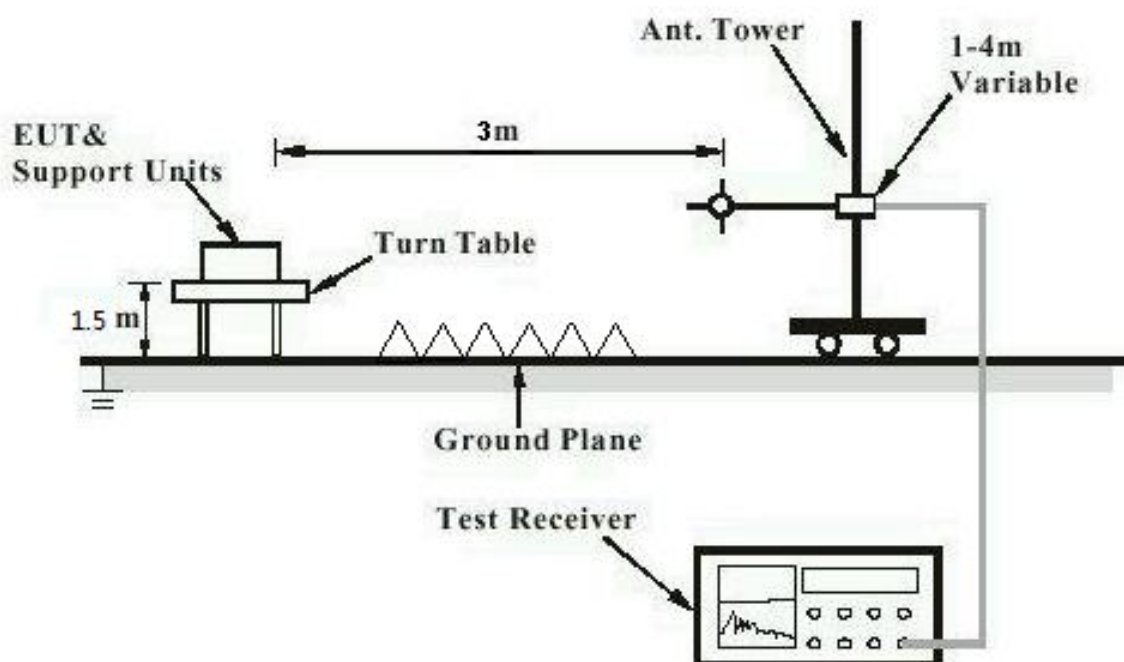


Diagram of Measurement Equipment Configuration for Conduction Measurement

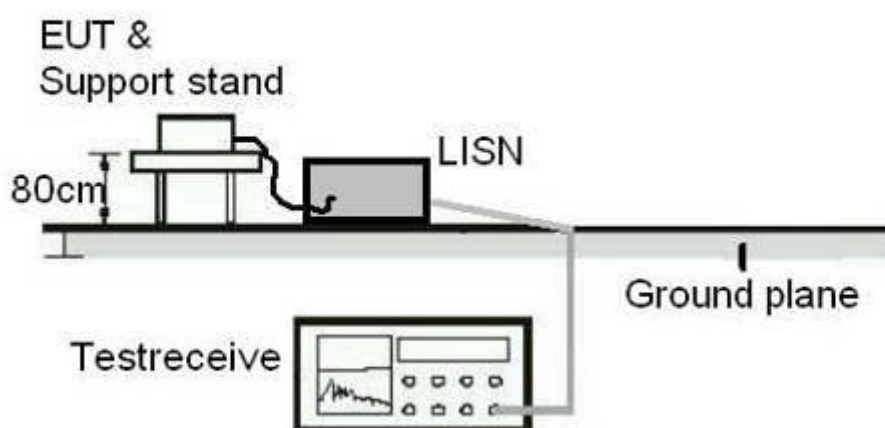
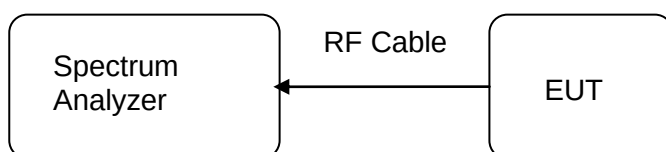


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test date : 2016-11-10 to 2016-11-25
Test standard : Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -4.47 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	:	2016-11-10 to 2016-11-25
Test standard	:	FCC part 15.249(a) Annex B.10(a) of RSS-210
Basic standard	:	ANSI C63.10:2013
Limits	:	Refer to 15.249(a) Annex B.10 (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°C
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 Wireless						
Test Channel	Frequency (MHz)	Measured Result (dBuV/m)	Limit (dBuV/m)	Detector	Polarity	Verdict
Low	2402	91.68	114	Peak	Horizontal	Pass
		90.38	94	Average		
	4804	49.87	114	Peak		
		41.35	94	Average		
	2402	81.38	114	Peak	Vertical	Pass
		80.08	94	Average		
	4804	49.48	114	Peak		
		41.35	94	Average		
Middle	2441	91.83	114	Peak	Horizontal	Pass
		90.33	94	Average		
	4882	49.50	114	Peak		
		41.34	94	Average		
	2441	80.65	114	Peak	Vertical	Pass
		79.15	94	Average		
	4882	47.53	114	Peak		
		39.54	94	Average		
High	2479	91.82	114	Peak	Horizontal	Pass
		90.32	94	Average		

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	4985	50.62	114	Peak		
		42.35	94	Average		
	2479	80.83	114	Peak	Vertical	Pass
		79.33	94	Average		
	4985	47.53	114	Peak		
		39.41	94	Average		

5.1.3 20dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2016-11-10 to 2016-11-25
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°C
Relative humidity : 48%
Atmospheric pressure : 101.0 kPa

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

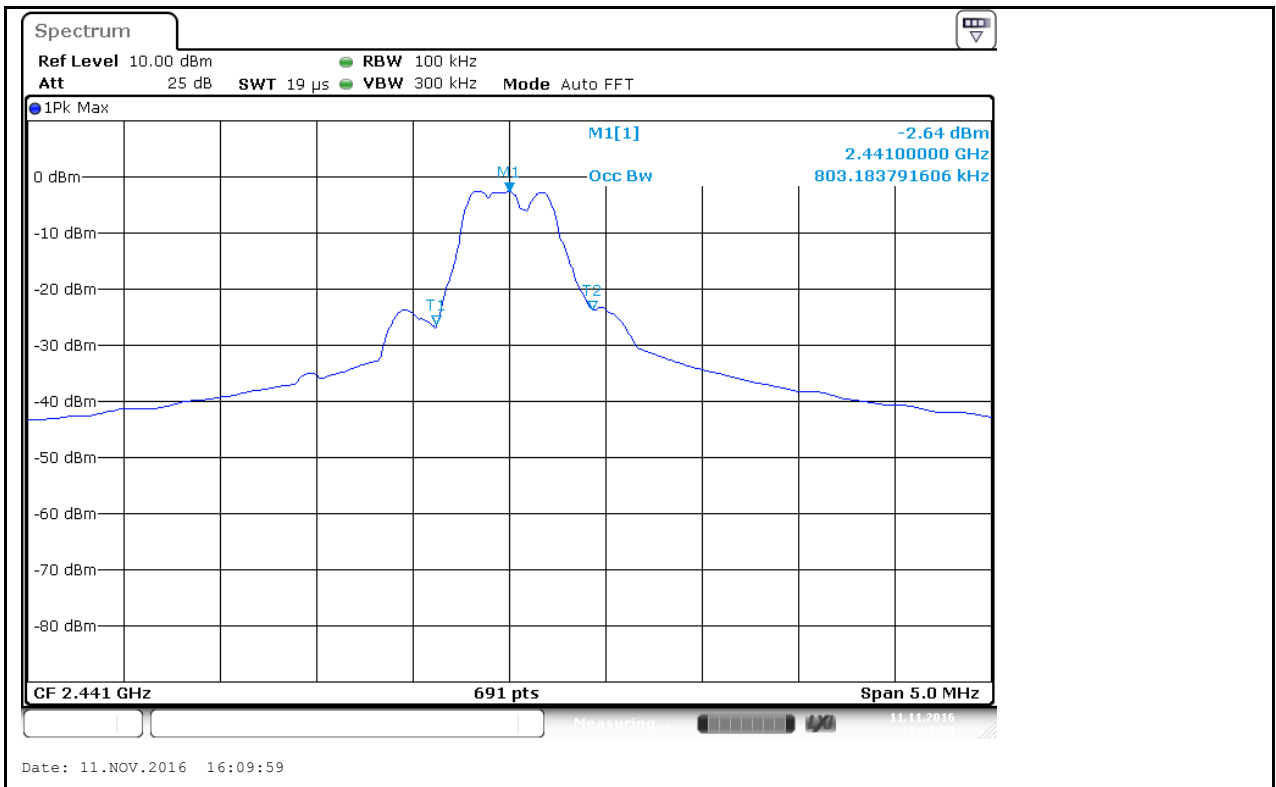
2.4 GHz Wireless				
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Verdict
Low Channel	2402	842.2	759.77	Pass
Mid Channel	2439	790.2	803.18	Pass
High Channel	2479	1550.0	1714.91	Pass

Test Graph of 99% Bandwidth, 2.4 GHz Wireless mode

Low Channel



Middle Channel



High Channel


Date: 11.NOV.2016 16:08:19

5.1.4 Out-of-band emissions

RESULT:**Pass**

Date of testing	:	2016-11-10 to 2016-11-25
Test standard	:	FCC part 15.249(d) Annex B.10 (b) of RSS-210
Basic standard	:	ANSI C63.10:2013
Limits	:	Refer to 15.249(d) Annex B.10 (b) 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°C
Relative humidity	:	48%
Atmospheric pressure	:	101.0 kPa

Refer to attached Appendix A for details.

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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

APPENDIX A.2: RADIATED EMISSIONS IN RESTRICTED BANDS - 2.4 GHZ WIRELESS OPERATION 29

Low Channel..... 29

High Channel..... 31

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

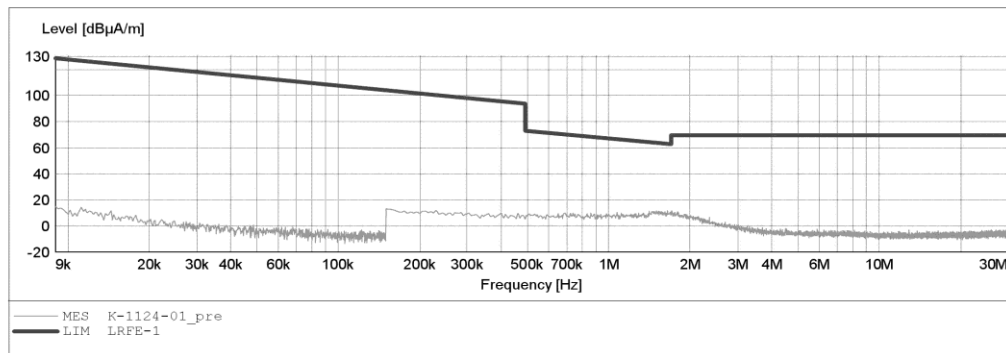
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71
 Manufacturer: Lenovo
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2016-11-24 /

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



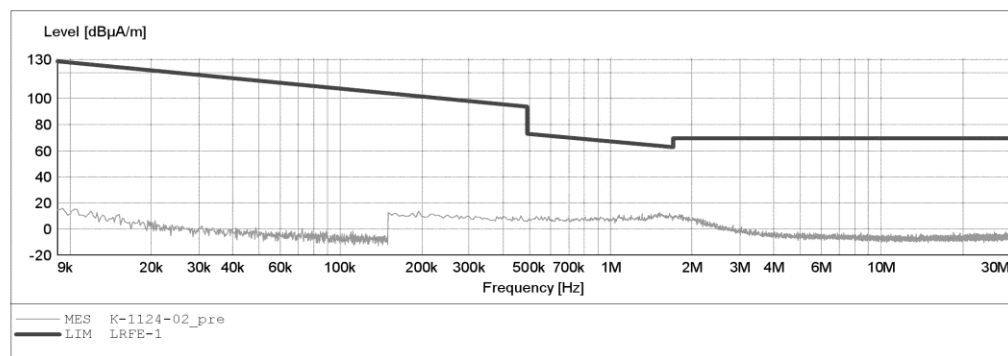
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71
 Manufacturer: Lenovo
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Y
 Start of Test: 2016-11-24 /

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



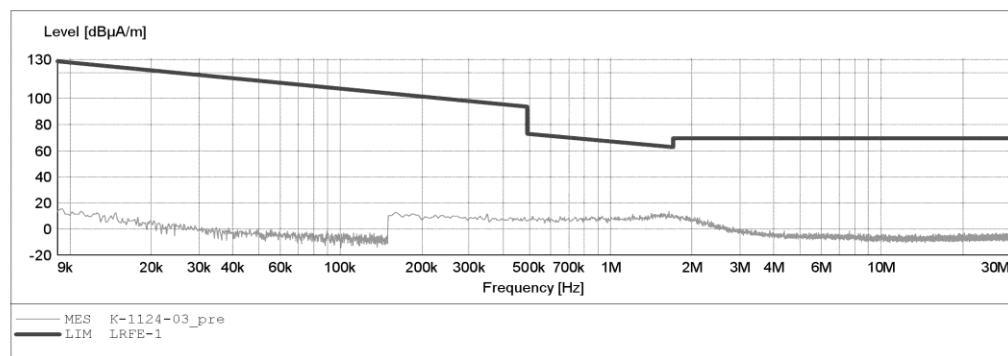
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71
 Manufacturer: Lenovo
 Operating Condition: TX 2402MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2016-11-24 /

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.**
 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.: lenovo #1478

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2402MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

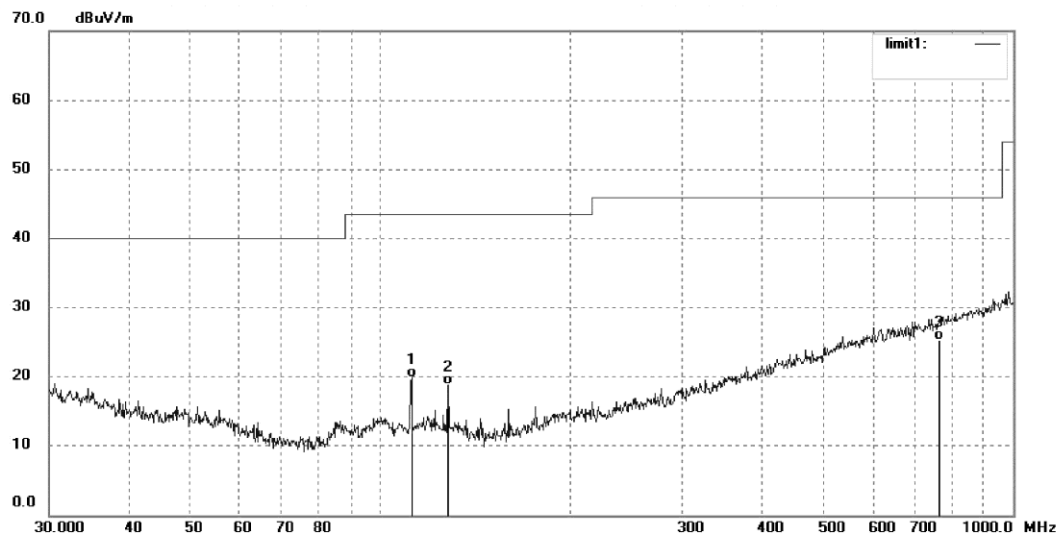
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	33.42	-13.50	19.92	43.50	-23.58	QP			
2	128.1128	32.46	-13.71	18.75	43.50	-24.75	QP			
3	763.3757	25.34	-0.05	25.29	46.00	-20.71	QP			

**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.: lenovo #1479

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2402MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

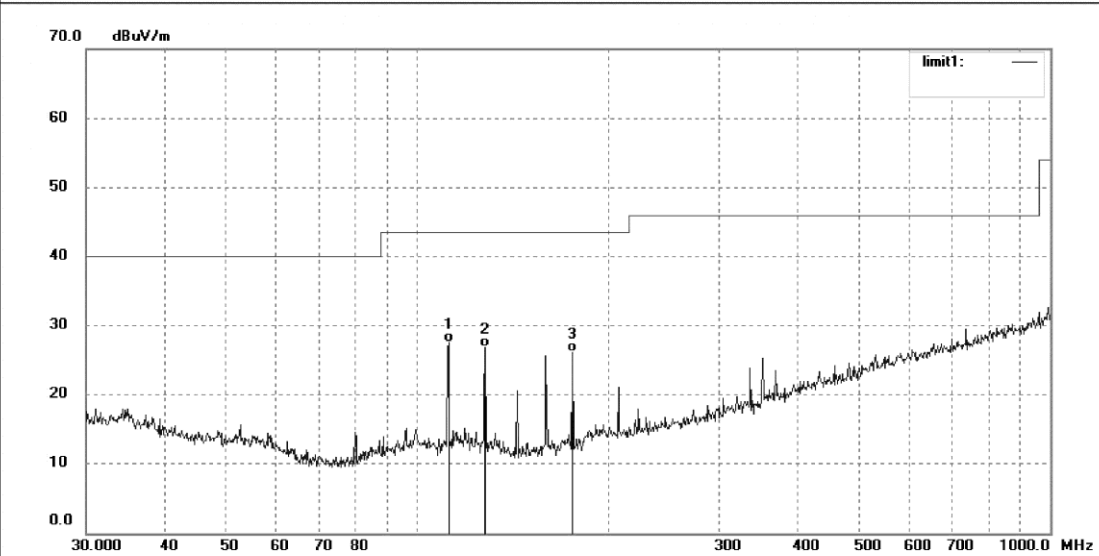
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	41.00	-13.50	27.50	43.50	-16.00	QP			
2	128.1127	40.65	-13.71	26.94	43.50	-16.56	QP			
3	176.2684	39.60	-13.44	26.16	43.50	-17.34	QP			

**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.: lenovo #1484

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2402MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

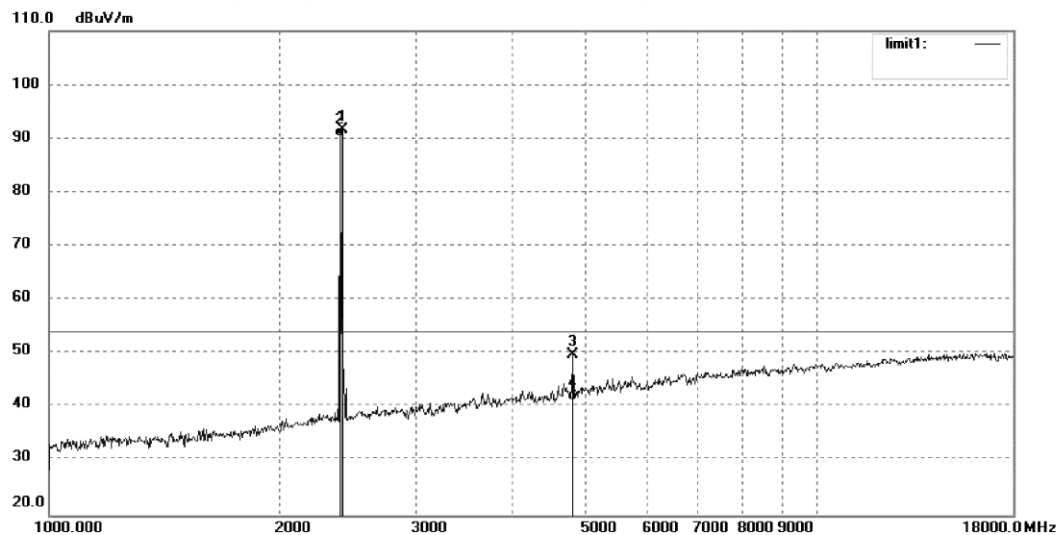
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	93.29	-1.61	91.68	114.00	-22.32	peak			
2	2402.000	91.99	-1.61	90.38	94.00	-3.62	AVG			
3	4804.021	44.97	4.90	49.87	74.00	-24.13	peak			
4	4804.021	36.45	4.90	41.35	54.00	-12.65	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: lenovo #1485

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2402MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

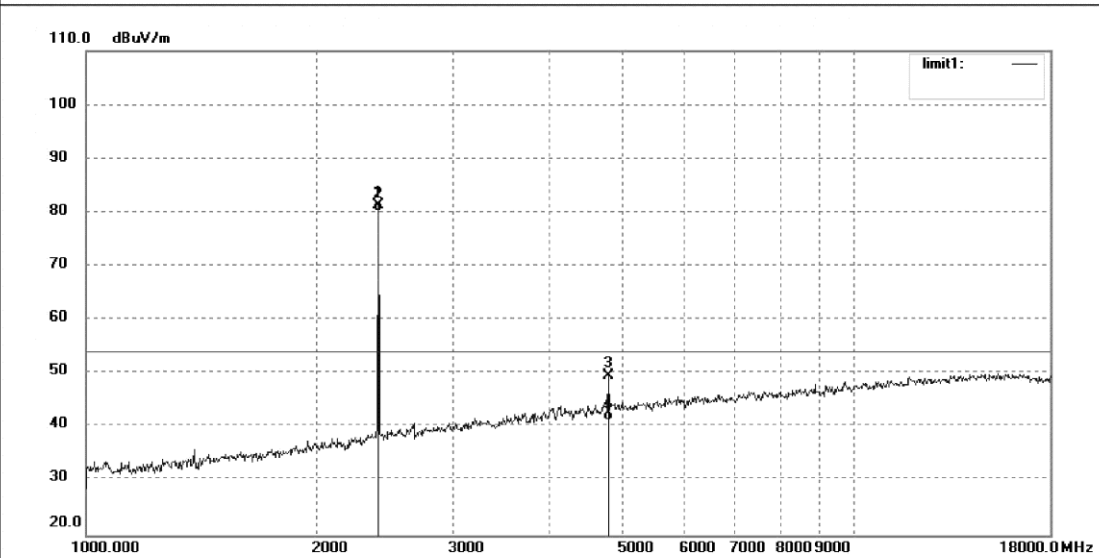
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	82.99	-1.61	81.38	114.00	-32.62	peak			
2	2402.000	81.69	-1.61	80.08	94.00	-13.92	AVG			
3	4804.025	44.58	4.90	49.48	74.00	-24.52	peak			
4	4804.025	36.45	4.90	41.35	54.00	-12.65	AVG			

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Tel:+86-0755-26503290

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Job No.: lenovo #1494

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2402MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

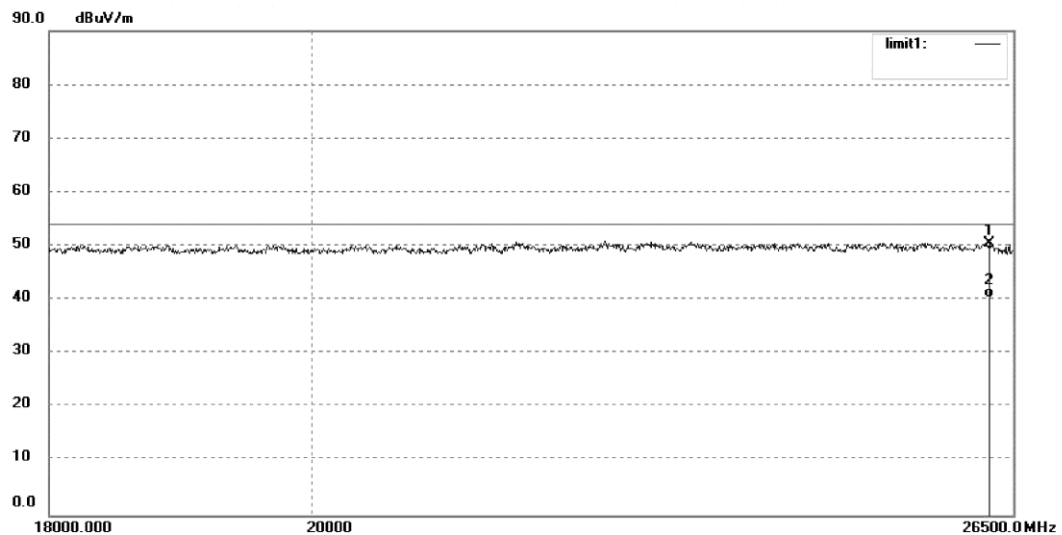
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26244.998	9.50	40.94	50.44	74.00	-23.56	peak			
2	26244.998	-0.56	40.94	40.38	54.00	-13.62	AVG			

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Job No.: lenovo #1495

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2402MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

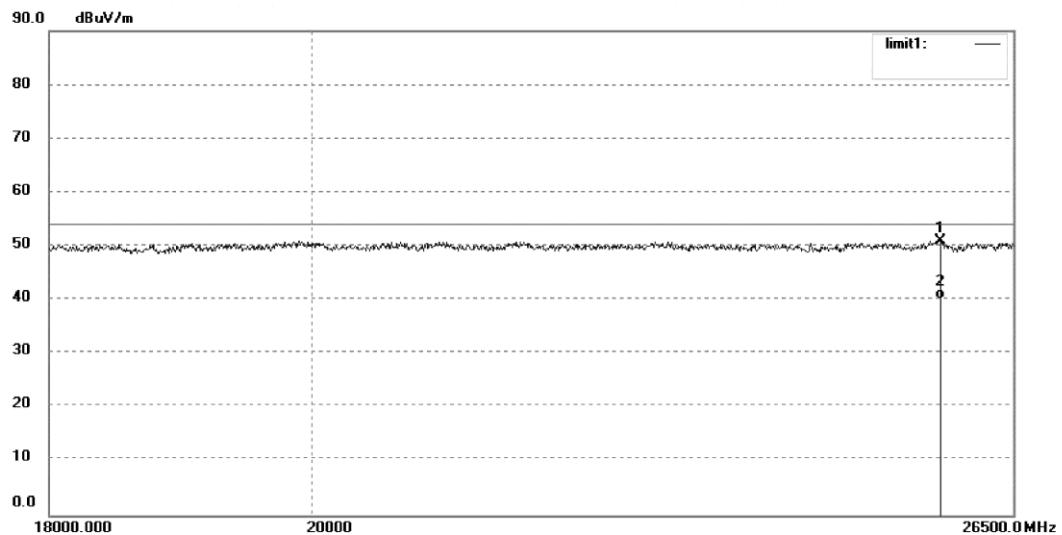
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25732.376	10.78	40.11	50.89	74.00	-23.11	peak			
2	25732.376	0.00	40.11	40.11	54.00	-13.89	AVG			

Middle Channel

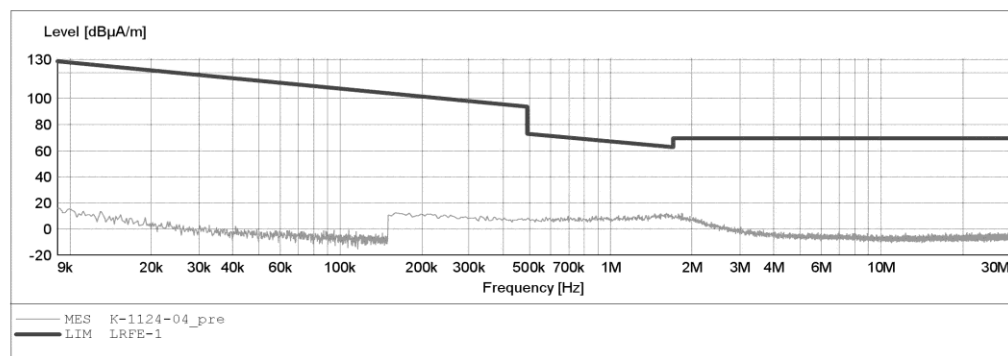
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FCC Class B 3M Radiated

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71
 Manufacturer: Lenovo
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2016-11-24 /

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



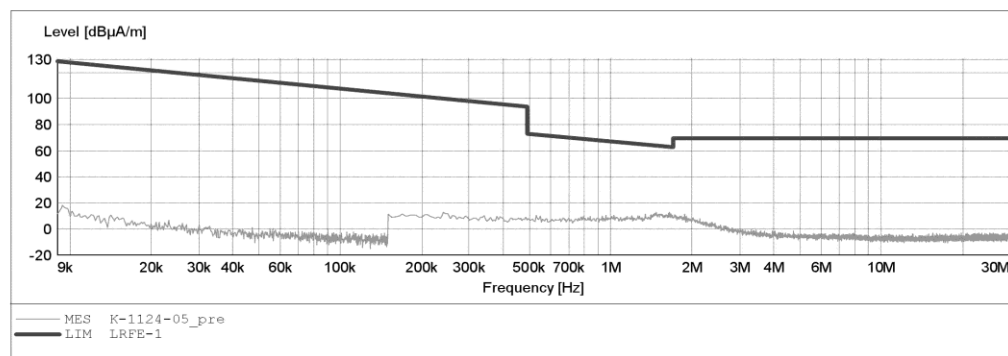
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71
 Manufacturer: Lenovo
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Y
 Start of Test: 2016-11-24 /

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



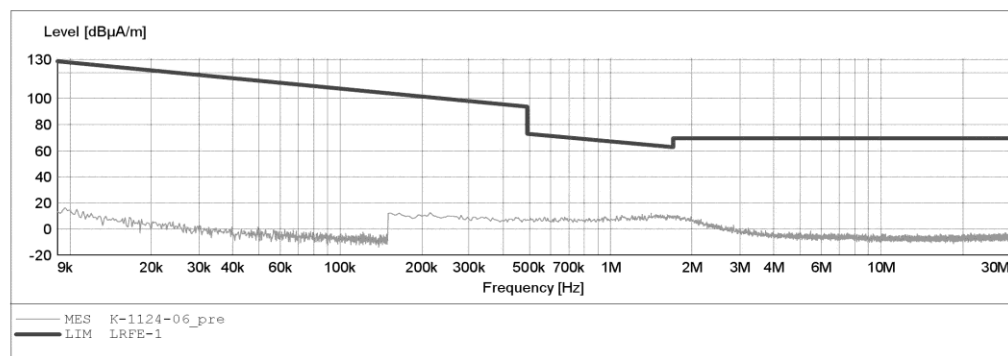
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71
 Manufacturer: Lenovo
 Operating Condition: TX 2441MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2016-11-24 /

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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Site: 2# Chamber

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Job No.: lenovo #1480

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2441MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

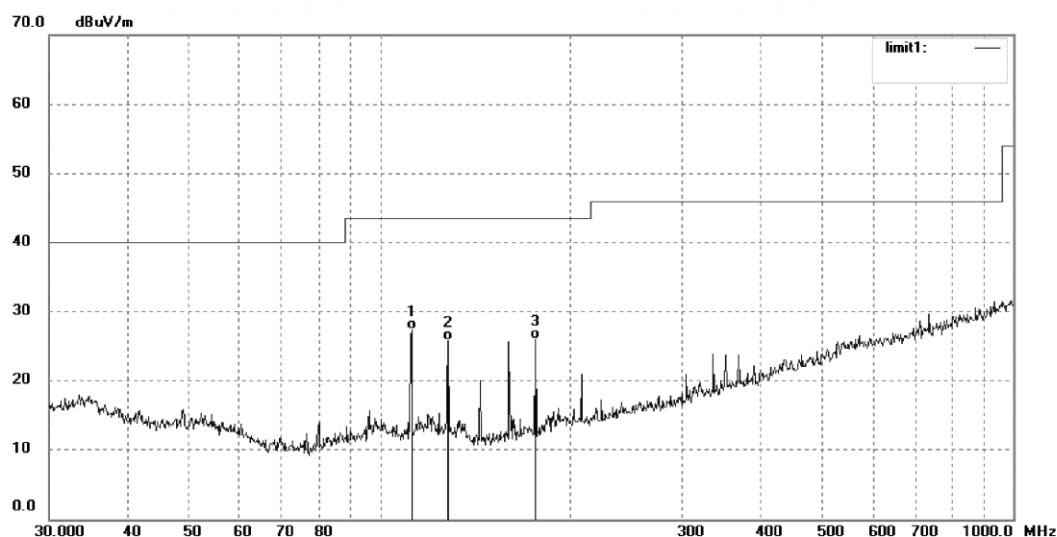
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	40.89	-13.50	27.39	43.50	-16.11	QP			
2	128.1127	39.58	-13.71	25.87	43.50	-17.63	QP			
3	176.2684	39.39	-13.44	25.95	43.50	-17.55	QP			

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Fax:+86-0755-26503396

Job No.: lenovo #1481

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2441MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

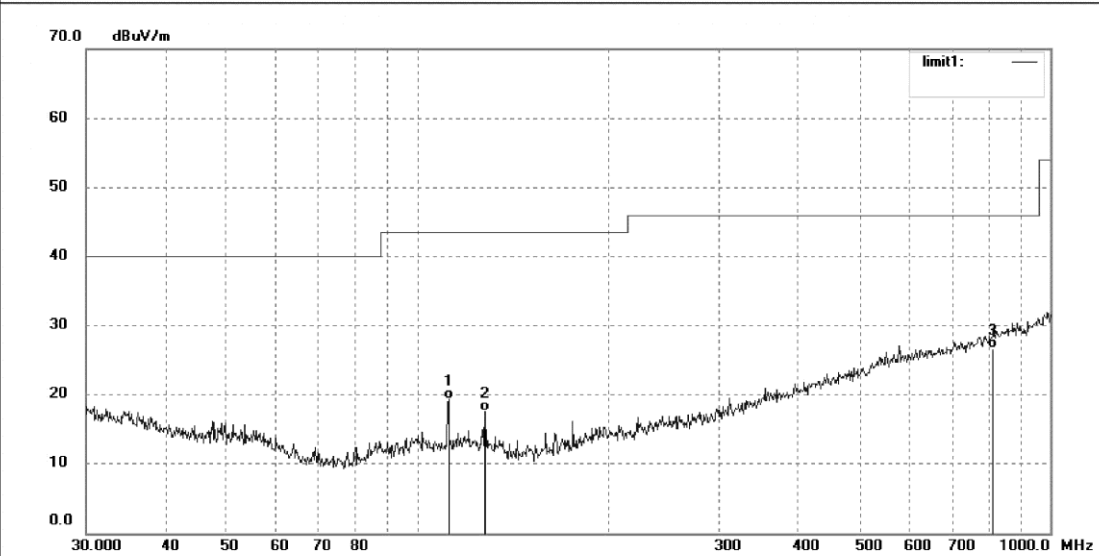
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	32.83	-13.50	19.33	43.50	-24.17	QP			
2	128.1127	31.34	-13.71	17.63	43.50	-25.87	QP			
3	813.1114	25.61	1.04	26.65	46.00	-19.35	QP			

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Job No.: lenovo #1488

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2441MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

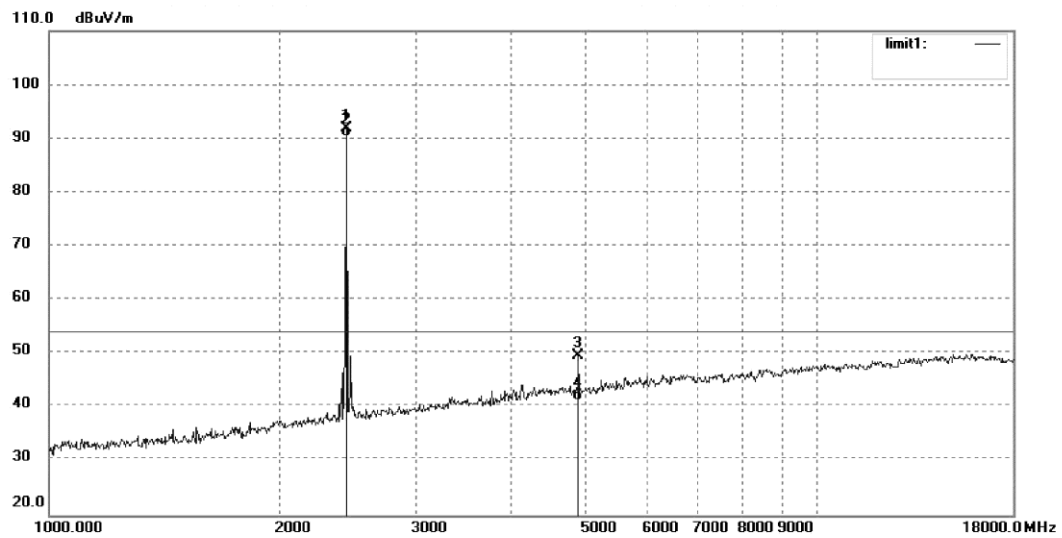
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	93.27	-1.44	91.83	114.00	-22.17	peak			
2	2441.000	91.77	-1.44	90.33	94.00	-3.67	AVG			
3	4882.028	43.89	5.61	49.50	74.00	-24.50	peak			
4	4882.028	35.73	5.61	41.34	54.00	-12.66	AVG			

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Job No.: lenovo #1489

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2441MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

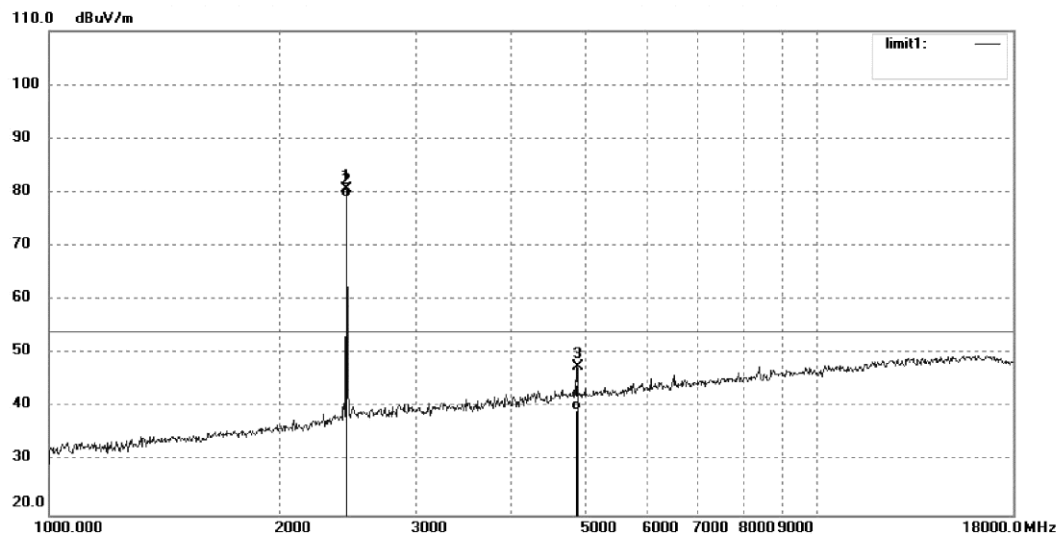
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	82.09	-1.44	80.65	114.00	-33.35	peak			
2	2441.000	80.59	-1.44	79.15	94.00	-14.85	AVG			
3	4882.024	41.92	5.61	47.53	74.00	-26.47	peak			
4	4882.024	33.93	5.61	39.54	54.00	-14.46	AVG			

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Tel:+86-0755-26503290

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Job No.: lenovo #1496

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2441MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

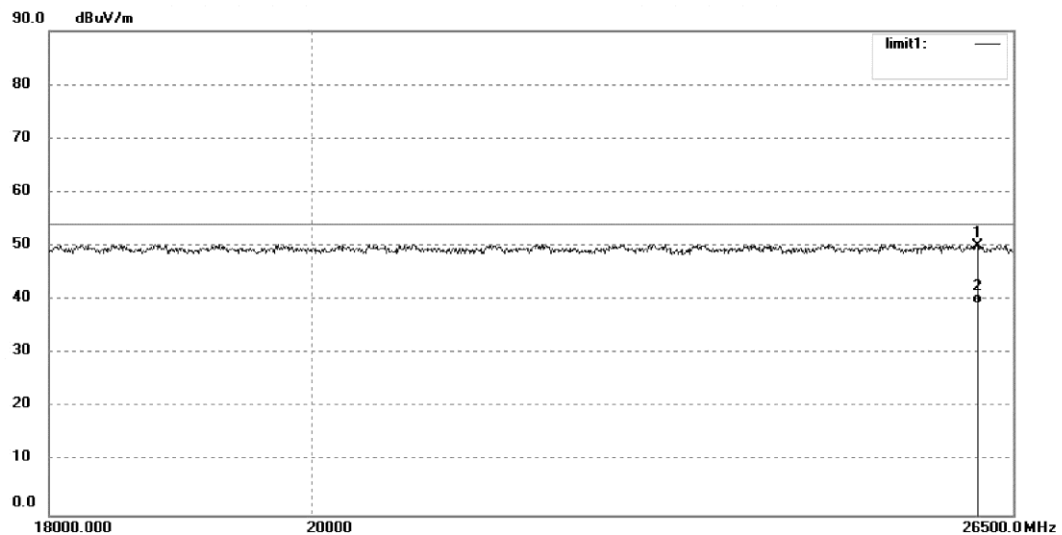
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26123.470	9.85	40.31	50.16	74.00	-23.84	peak			
2	26123.470	-0.97	40.31	39.34	54.00	-14.66	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: lenovo #1497

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2441MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

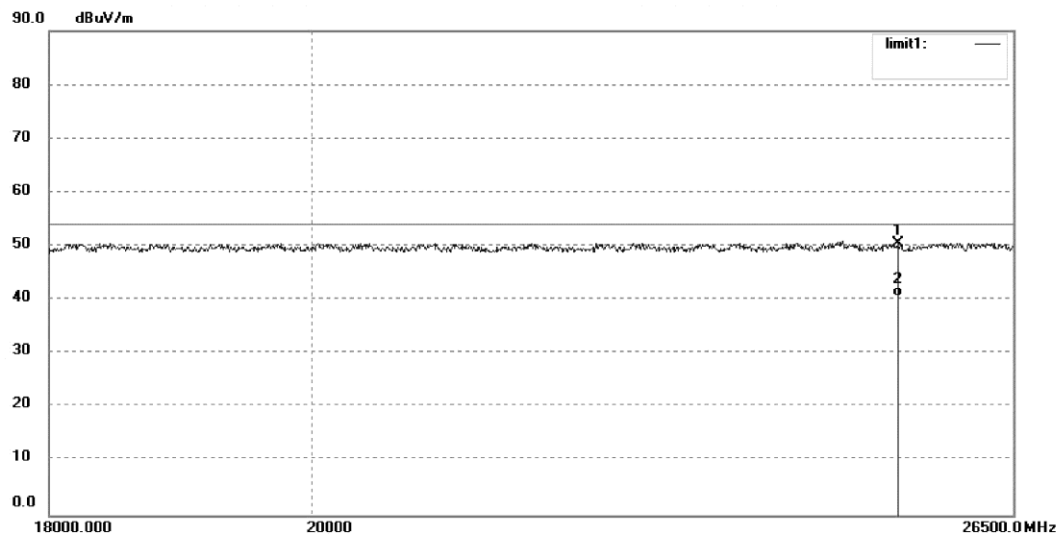
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25298.168	9.41	41.09	50.50	74.00	-23.50	peak			
2	25298.168	-0.52	41.09	40.57	54.00	-13.43	AVG			

High Channel

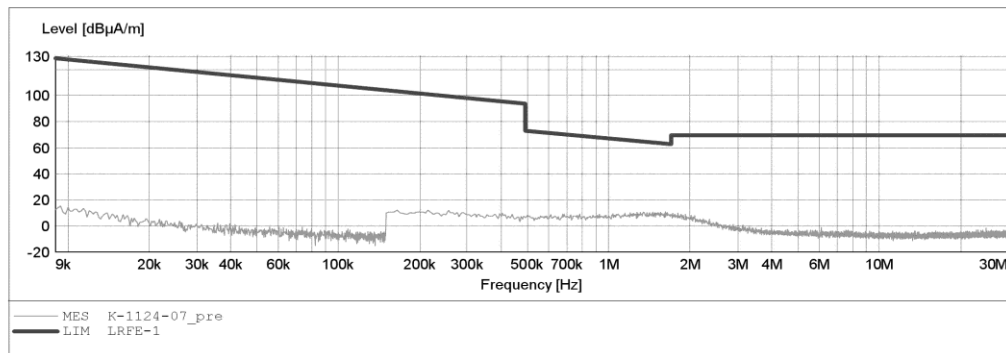
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FCC Class B 3M Radiated

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71
 Manufacturer: Lenovo
 Operating Condition: TX 2479MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: X
 Start of Test: 2016-11-24 /

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



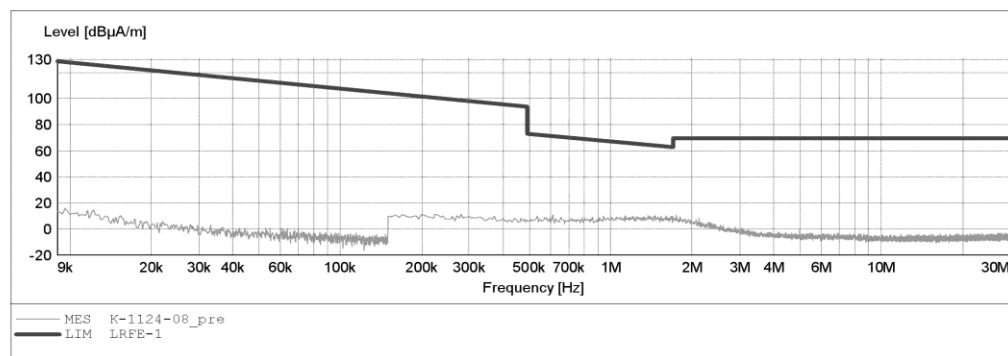
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71
 Manufacturer: Lenovo
 Operating Condition: TX 2479MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Y
 Start of Test: 2016-11-24 /

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



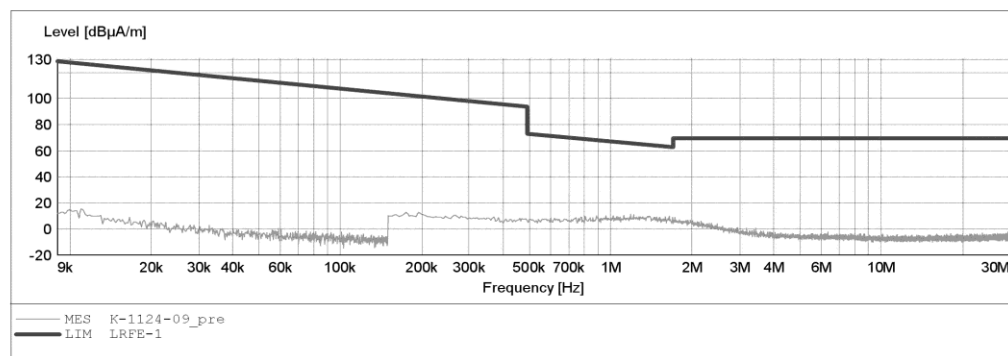
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3M Radiated

EUT: Lenovo Essential Wireless Keyboard M/N:KBRFBU71
 Manufacturer: Lenovo
 Operating Condition: TX 2479MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 3V
 Comment: Z
 Start of Test: 2016-11-24 /

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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Job No.: lenovo #1482

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2479MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

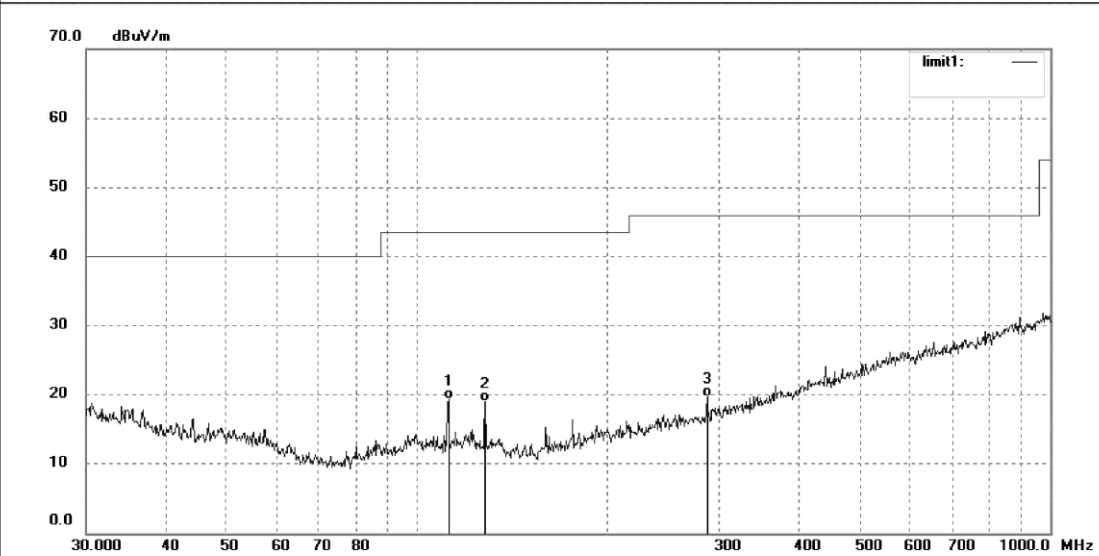
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	32.83	-13.50	19.33	43.50	-24.17	QP			
2	128.1127	32.66	-13.71	18.95	43.50	-24.55	QP			
3	286.9823	29.00	-9.38	19.62	46.00	-26.38	QP			

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Job No.: lenovo #1483

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2479MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

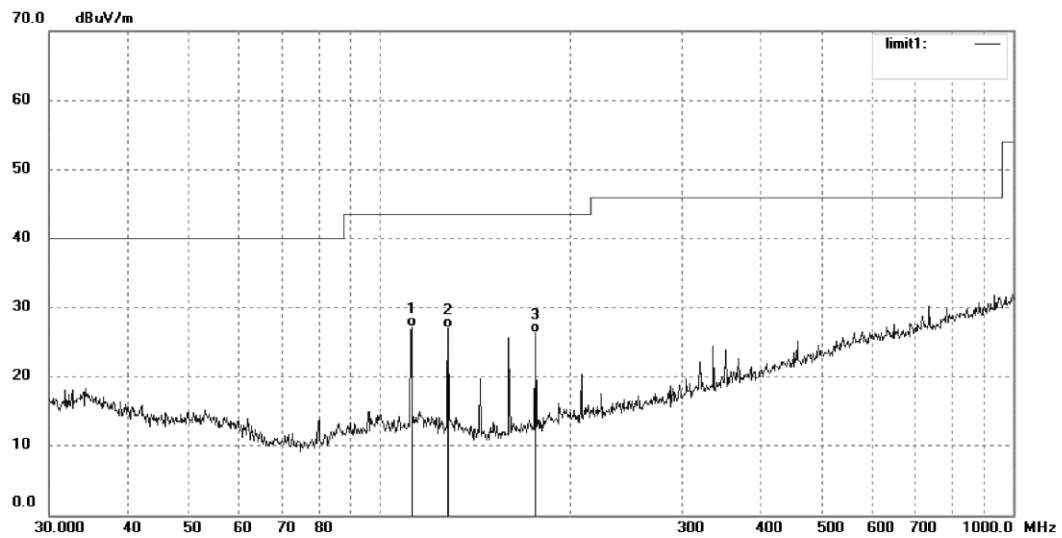
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	112.1303	40.70	-13.50	27.20	43.50	-16.30	QP			
2	128.1127	40.83	-13.71	27.12	43.50	-16.38	QP			
3	176.2684	39.76	-13.44	26.32	43.50	-17.18	QP			

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Tel:+86-0755-26503290

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Job No.: lenovo #1490

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2479MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

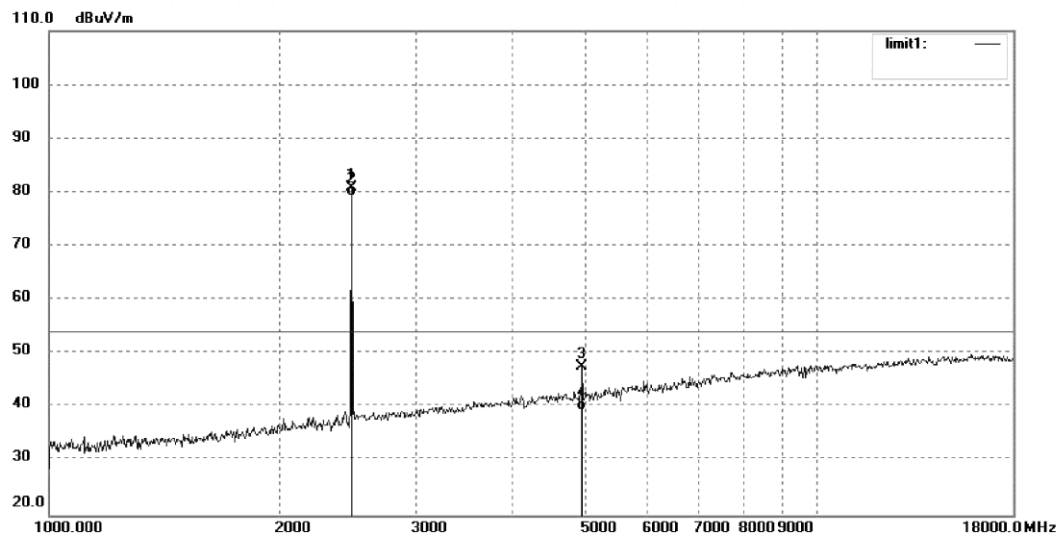
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	82.23	-1.40	80.83	114.00	-33.17	peak			
2	2479.000	80.73	-1.40	79.33	94.00	-14.67	AVG			
3	4958.025	41.45	6.08	47.53	74.00	-26.47	peak			
4	4958.025	33.33	6.08	39.41	54.00	-14.59	AVG			

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Job No.: lenovo #1491

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2479MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

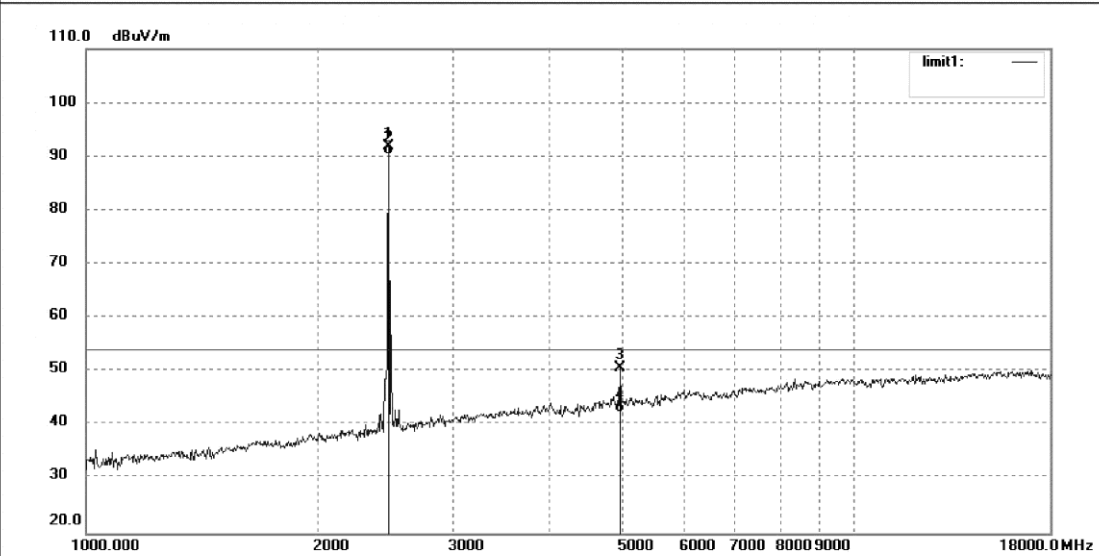
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	93.22	-1.40	91.82	114.00	-22.18	peak			
2	2479.000	91.72	-1.40	90.32	94.00	-3.68	AVG			
3	4958.027	44.54	6.08	50.62	74.00	-23.38	peak			
4	4958.027	36.27	6.08	42.35	54.00	-11.65	AVG			

Produkte
Products



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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: lenovo #1498

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2479MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

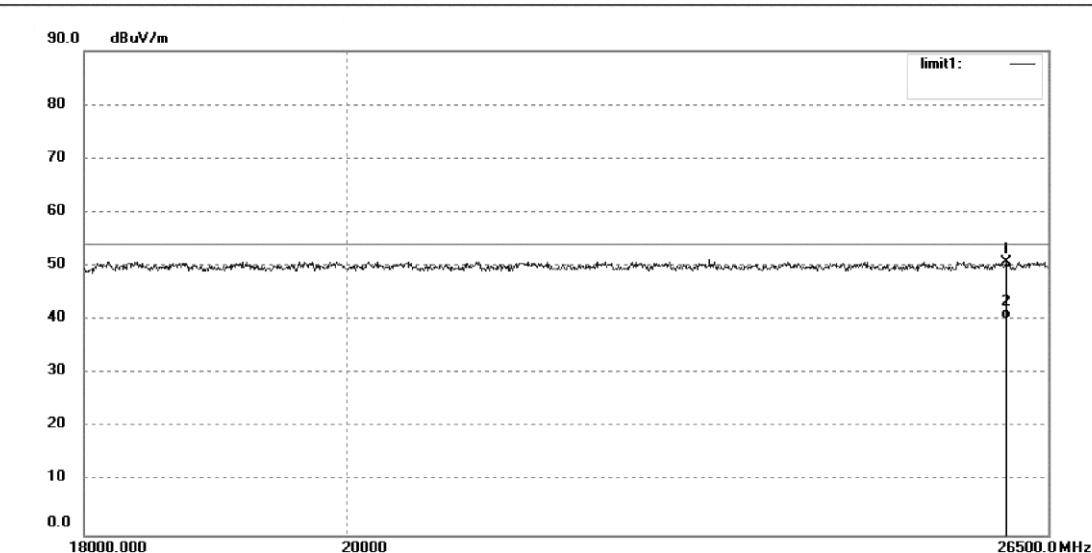
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26062.917	9.70	40.97	50.67	74.00	-23.33	peak			
2	26062.917	-0.70	40.97	40.27	54.00	-13.73	AVG			

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Job No.: lenovo #1499

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2479MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

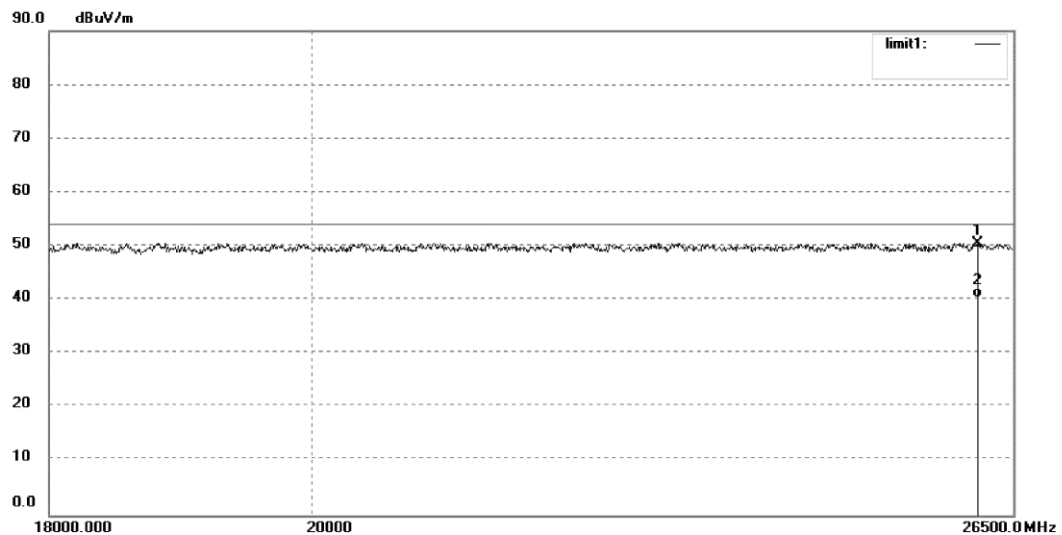
Date: 16/11/25/

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Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26123.470	10.19	40.31	50.50	74.00	-23.50	peak			
2	26123.470	0.04	40.31	40.35	54.00	-13.65	AVG			

Appendix A.2: Radiated Emissions in Restricted Bands - 2.4 GHz Wireless operation
 Low Channel
**ACCURATE TECHNOLOGY CO., LTD.**
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Job No.: lenovo #1486

Standard: FCC Part 15 (Band Edge)

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2402MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

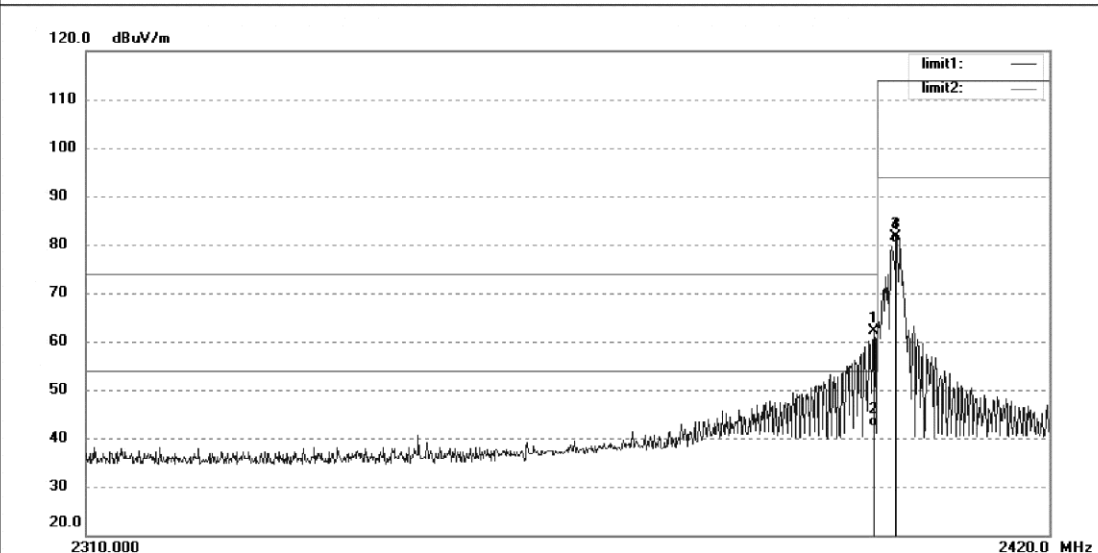
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2399.650	63.77	-1.62	62.15	74.00	-11.85	peak			
2	2399.650	43.97	-1.62	42.35	54.00	-11.65	AVG			
3	2402.000	83.20	-1.61	81.59	114.00	-32.41	peak			
4	2402.000	81.90	-1.61	80.29	94.00	-13.71	AVG			

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Fax: +86-0755-26503396

Job No.: lenovo #1487

Standard: FCC Part 15 (Band Edge)

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2402MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

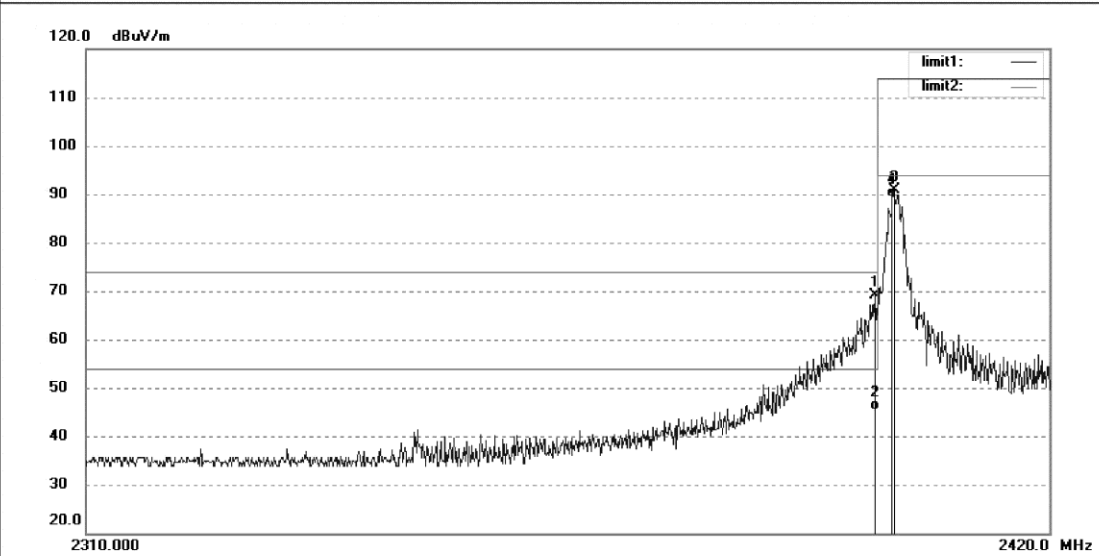
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2399.760	70.65	-1.62	69.03	74.00	-4.97	peak			
2	2399.760	46.96	-1.62	45.34	54.00	-8.66	AVG			
3	2402.000	92.40	-1.61	90.79	114.00	-23.21	peak			
4	2402.000	91.10	-1.61	89.49	94.00	-4.51	AVG			

High Channel

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Job No.: lenovo #1492

Standard: FCC Part 15 (Band Edge)

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2479MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Horizontal

Power Source: DC 3V

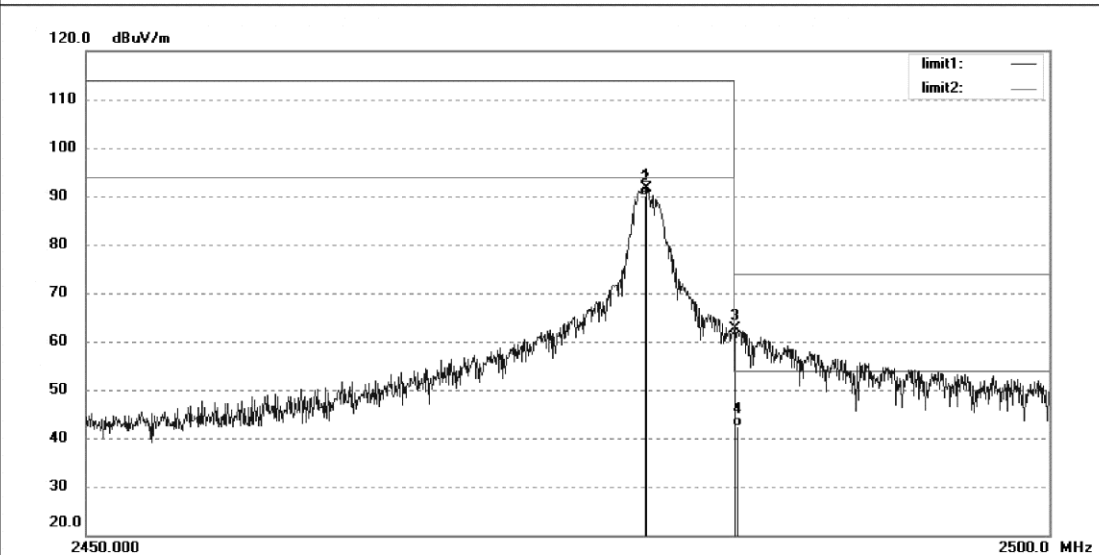
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	92.96	-1.40	91.56	114.00	-22.44	peak			
2	2479.000	91.46	-1.40	90.06	94.00	-3.94	AVG			
3	2483.600	63.97	-1.40	62.57	74.00	-11.43	peak			
4	2483.600	43.75	-1.40	42.35	54.00	-11.65	AVG			

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Job No.: lenovo #1493

Standard: FCC Part 15 (Band Edge)

Test item: Radiation Test

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

EUT: Lenovo Essential Wireless Keyboard

Mode: TX 2479MHz

Model: KBRFBU71

Manufacturer: Lenovo

Polarization: Vertical

Power Source: DC 3V

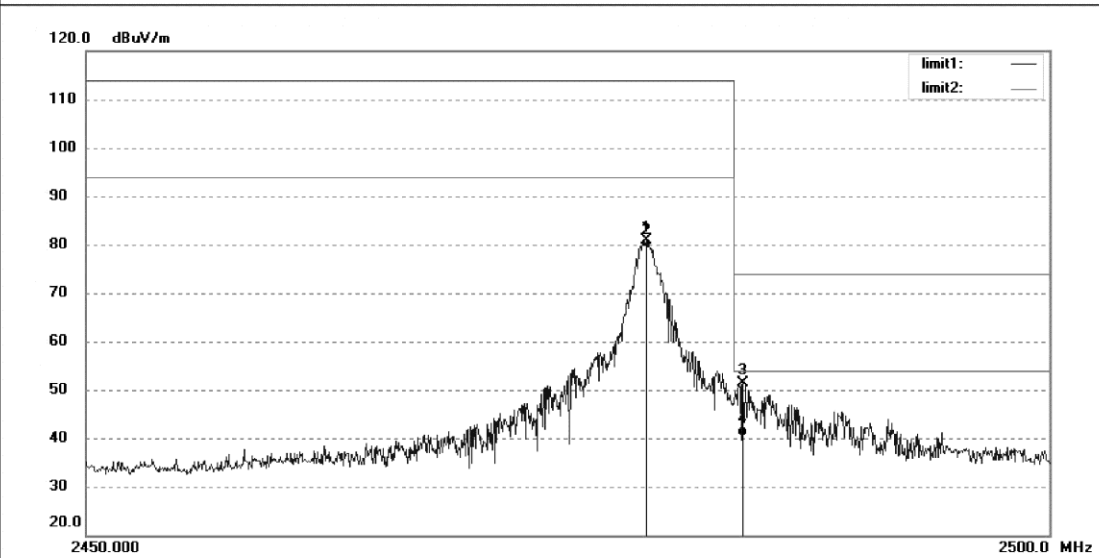
Date: 16/11/25/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2479.000	82.18	-1.40	80.78	114.00	-33.22	peak			
2	2479.000	80.68	-1.40	79.28	94.00	-14.72	AVG			
3	2484.000	52.81	-1.41	51.40	74.00	-22.60	peak			
4	2484.000	41.76	-1.41	40.35	54.00	-13.65	AVG			