



Prüfbericht-Nr.: <i>Test report No.:</i>	50082853 001	Auftrags-Nr.: <i>Order No.:</i>	164090491	Seite 1 von 20 Page 1 of 20	
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	12.04.2017		
Auftraggeber: <i>Client:</i>	Lenovo (Beijing) Limited No.6 Chuang Ye Road, Shangdi Information Industry Base, Haidian District, Beijing, China				
Prüfgegenstand: <i>Test item:</i>	Lenovo 500 Multimedia Controller (Wireless Keyboard)				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	L500-C (Lenovo)				
Auftrags-Inhalt: <i>Order content:</i>	FCC approval				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB publication 447498 D01 v06				
Wareneingangsdatum: <i>Date of receipt:</i>	12.04.2017	Please refer to photo documents			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000527401-001 A000527401-002				
Prüfzeitraum: <i>Testing period:</i>	02.05.2017 - 05.05.2017				
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:			
					
30.06.2017 Alex Lan / Project Engineer		30.06.2017 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: FCC ID: A5ML500-C					
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(all) = 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 specifications(s) F(all) = failed a.m. test specifications(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: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS

RESULT: Pass

5.1.3 BANDWIDTH

RESULT: Pass

5.1.4 RADIATED SPURIOUS EMISSION & BAND EDGE

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

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

2 Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

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

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

The tests at the test sites 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

Accurate Technology Co., Ltd.

Radio Spectrum Test				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Spectrum Analyzer	R&S	FSV40	101495	06.01.2018
Radiated Emission & Spurious Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Spectrum Analyzer	R&S	FSV40	101495	06.01.2018
Test Receiver	R&S	ESCS30	100307	06.01.2018
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	09.01.2018
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	09.01.2018
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	09.01.2018
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	09.01.2018
Pre-Amplifier	R&S	CBLU11835 40-01	3791	06.01.2018
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	06.01.2018
RF Coaxial Cable	SUHNER	N-3m	No.8	06.01.2018
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	06.01.2018
RF Coaxial Cable	SUHNER	N-6m	No.10	06.01.2018
RF Coaxial Cable	RESENBERGER	N-12m	No.11	06.01.2018
50_ Coaxial Switch	Anritsu Corp	MP59B	6200283933	06.01.2018

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Item		Extended Uncertainty
Radiated Emission (9kHz-30MHz)	Field strength (dB μ V/m)	U=3.08dB, k=2, σ =95%
Radiated Emission (30-1000MHz)	Field strength (dB μ V/m)	U=4.42dB, k=2, σ =95%
Radiated Emission (above 1000MHz)	Field strength (dB μ V/m)	U=4.06dB, k=2, σ =95%
Conducted Emission (0.15 - 30MHz)	Disturbance Voltage (dBuV)	U= \pm 2.90dB, k=2, σ =95%
Radio Spectrum		\pm 0.60 dB
Ambient Temperature		25 °C
Relative Humidity		56 %
Atmospheric Pressure		101 kPa

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A 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. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan 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 500 Multimedia Controller (Wireless Keyboard) device. It supports generic 2.4GHz 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 Transmitter

Technical Specification	Value	
Kind of Equipment	Lenovo 500 Multimedia Controller (Wireless Keyboard)	
Type Designation	L500-C	
Trade mark	Lenovo	
FCC ID	A5ML500-C	
IC / HVIN	5903G-L500C / L500-C	
Operating Frequency	2402 ~ 2479MHz	
Operating Temperature Range	0 °C ~ +40 °C	
Operating Voltage	DC 3.0V via 'AAA' battery x 2	
Testing Voltage	DC 3.0V via 'AAA' battery x 2	
Type of Modulation	GFSK	
Channel Number	78 channels	
Channel Separation	1 MHz	
Antenna Type	Integral Antenna (PCB Antenna)	
Smart Antenna Systems:	Applicable	
Antenna number	2	
Antenna Gain	Antenna 1	0.264 dBi
	Antenna 2	0.264 dBi
Number of Transmission chains	These two antenna can't transmission at the same time, only transmission separately.	

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, wireless data transmitting
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC Label and Location
- Model Difference Letter
- Circuit Diagram
- Operation Description
- User Manual

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. All testing were performed according to the procedures in ANSI C63.10: 2013.

This product has two antennas, and according to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for these two antennas, only the Polarization direction are different, and all tests was carried out on these two antennas, but only the worst case was presented in this report.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

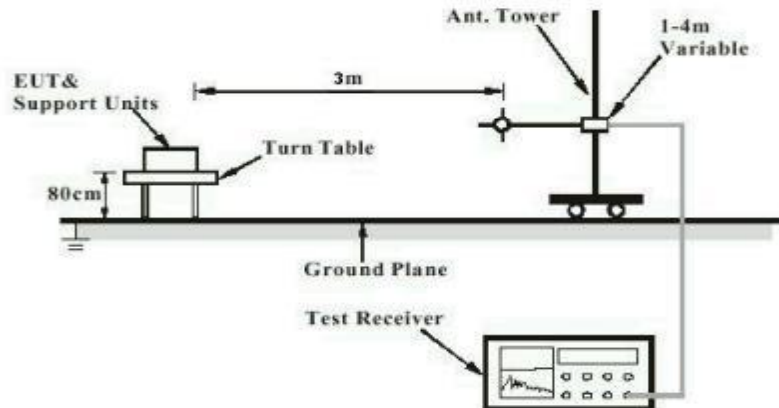


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

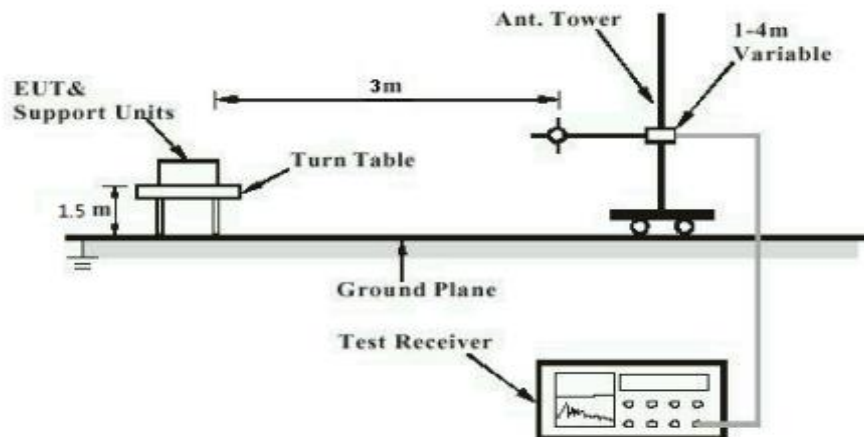
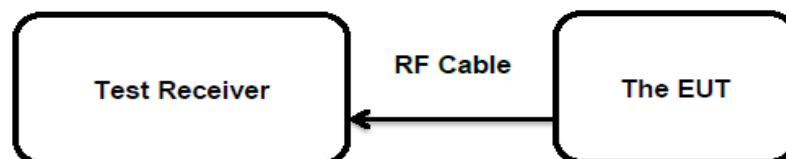


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard

FCC 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 two internal antennas, the directional gain of each antenna is 0.264 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Field Strength of Fundamental and Harmonics

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.249(a)
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to FCC Part 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 05.05.2017
Input voltage	: DC 3.0V via 'AAA' battery x 2
Operation mode	: A
Ambient temperature	: 23°C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.3 Bandwidth

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.215
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

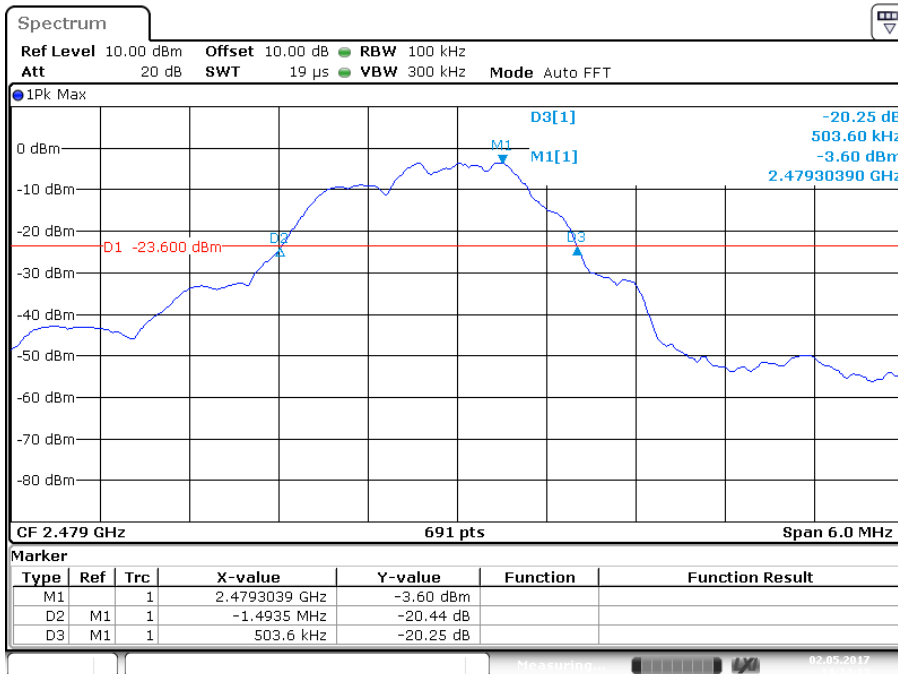
Test Setup

Date of testing : 02.05.2017
Input voltage : DC 3.0V via 'AAA' battery x 2
Operation mode : A1
Ambient temperature : 23 °C
Relative humidity : 48 %
Atmospheric pressure : 101 kPa

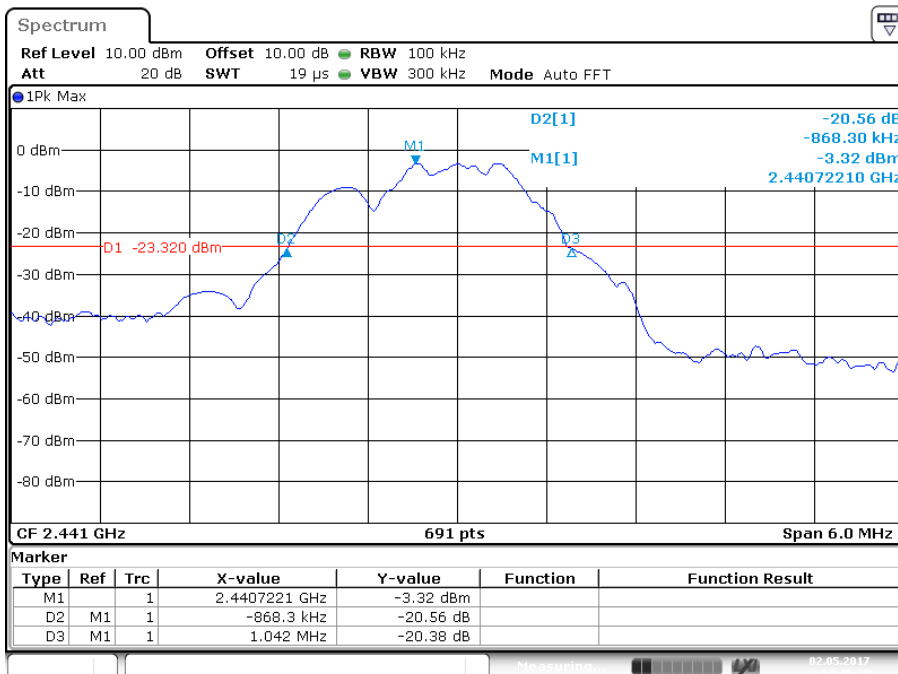
Table 3: Test Result of 20dB Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Verdict
Low Channel	2402	1997.1	Pass
Mid Channel	2441	2270.3	Pass
High Channel	2479	3256.1	Pass

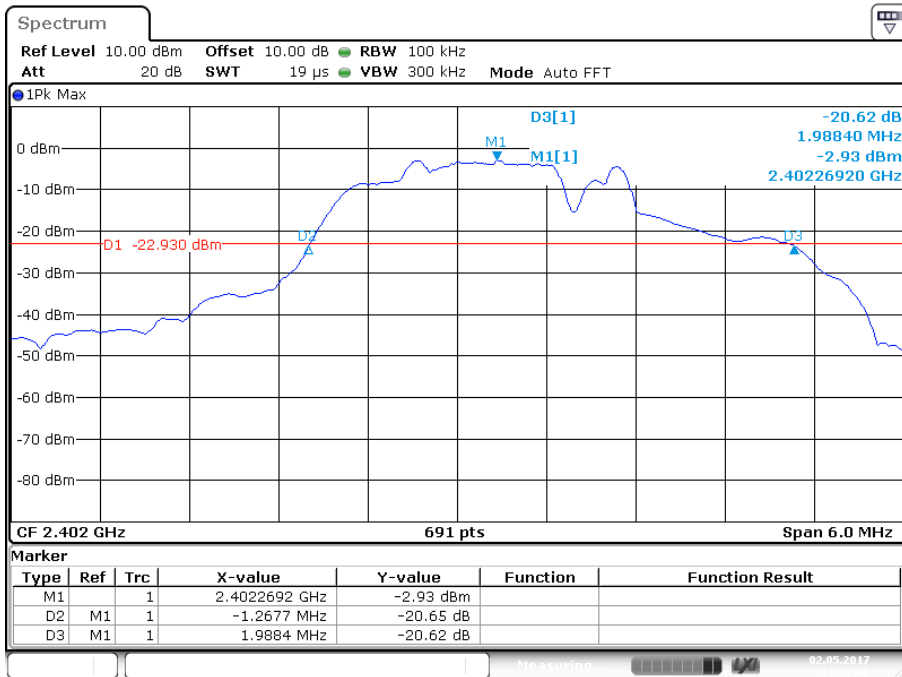
For the measurement records, refer to following test plots:

Test Plot of 20dB Bandwidth


Date: 2.MAY.2017 14:24:13



Date: 2.MAY.2017 14:40:10



Date: 2.MAY.2017 14:26:47

5.1.4 Radiated Spurious Emission & Band Edge

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.249 (d) & FCC Part 15.205
Basic standard : ANSI C63.10: 2013
Limits : Refer to FCC Part 15.209 (a) and 15.249 (d)
Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 05.05.2017
Input voltage : DC 3.0V via 'AAA' battery x 2
Operation mode : A
Ambient temperature : 23 °C
Relative humidity : 48 %
Atmospheric pressure : 101 kPa

Remark:

For the measurement records, refer to the appendix A.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard : FCC KDB Publication 447498 v06

Measurement Record:

The separation distance of the Keyboard should be 5mm. The measured maximum specified e.i.r.p of the Keyboard is 91.13dBuV/m \approx -4.10dBm, which is far below the SAR exclusion threshold level 10 mW (Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and \leq 50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

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Appendix A

Test Results

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Appendix A.1: Test Results of Radiated Spurious Emissions 9KHz - 30MHz

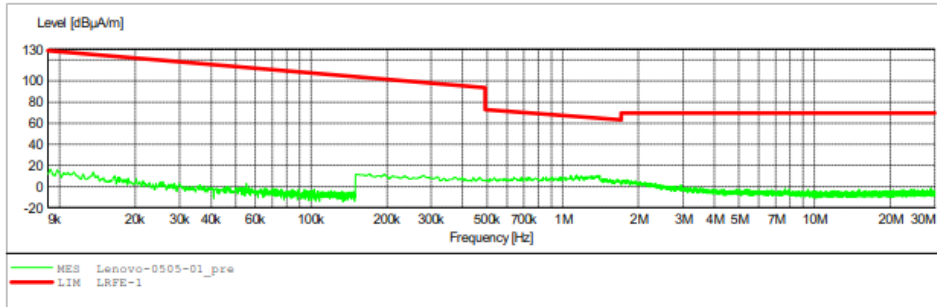
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Lenovo 500 Multimedia Controller M/N:L500-C
Manufacturer: Lenovo
Operating Condition: TX 2402MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: DC 3V
Comment: X
Start of Test: 2017-5-5 /

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



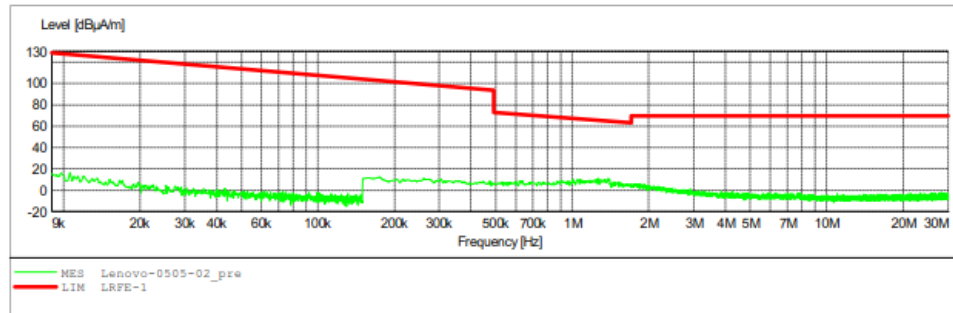
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Lenovo 500 Multimedia Controller M/N:L500-C
Manufacturer: Lenovo
Operating Condition: TX 2402MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: DC 3V
Comment: Y
Start of Test: 2017-5-5 /

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



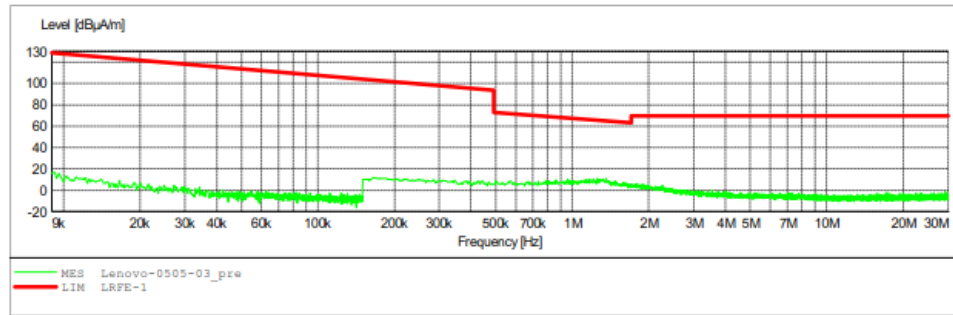
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Lenovo 500 Multimedia Controller M/N:L500-C
Manufacturer: Lenovo
Operating Condition: TX 2402MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: DC 3V
Comment: Z
Start of Test: 2017-5-5 /

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



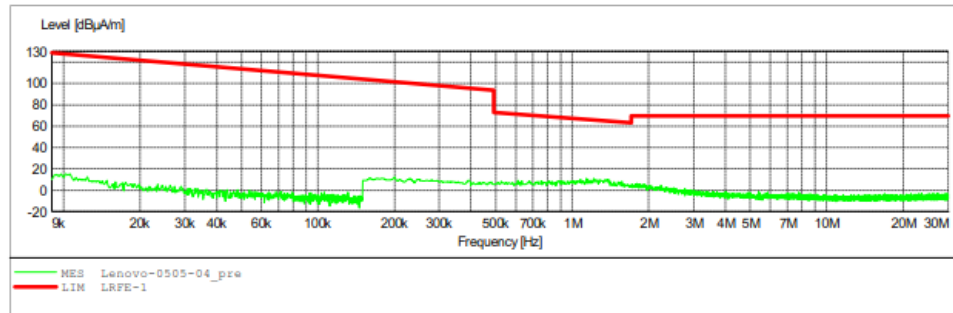
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Lenovo 500 Multimedia Controller M/N:L500-C
Manufacturer: Lenovo
Operating Condition: TX 2441MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: DC 3V
Comment: X
Start of Test: 2017-5-5 /

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



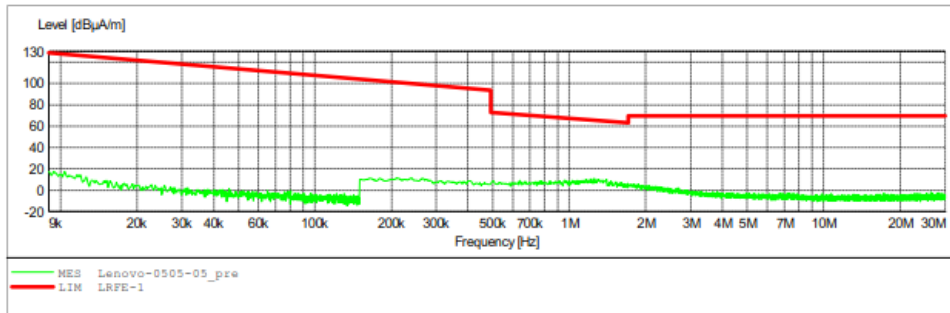
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Lenovo 500 Multimedia Controller M/N:L500-C
Manufacturer: Lenovo
Operating Condition: TX 2441MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: DC 3V
Comment: Y
Start of Test: 2017-5-5 /

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



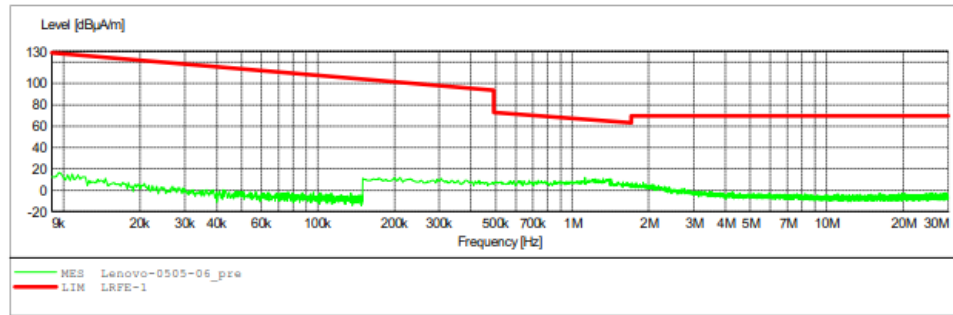
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Lenovo 500 Multimedia Controller M/N:L500-C
Manufacturer: Lenovo
Operating Condition: TX 2441MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: DC 3V
Comment: Z
Start of Test: 2017-5-5 /

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



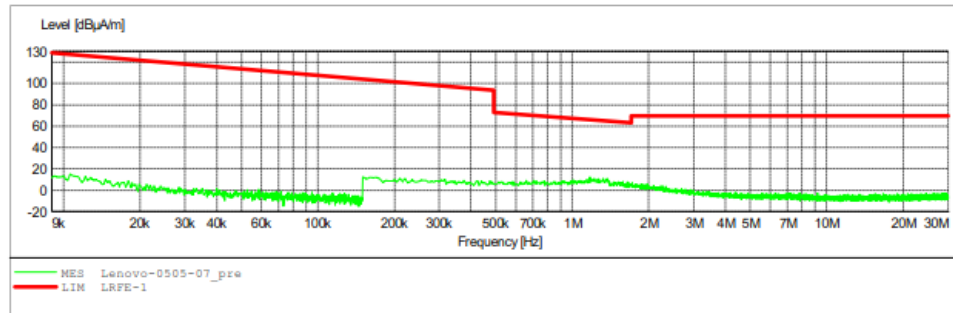
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Lenovo 500 Multimedia Controller M/N:L500-C
Manufacturer: Lenovo
Operating Condition: TX 2479MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: DC 3V
Comment: X
Start of Test: 2017-5-5 /

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



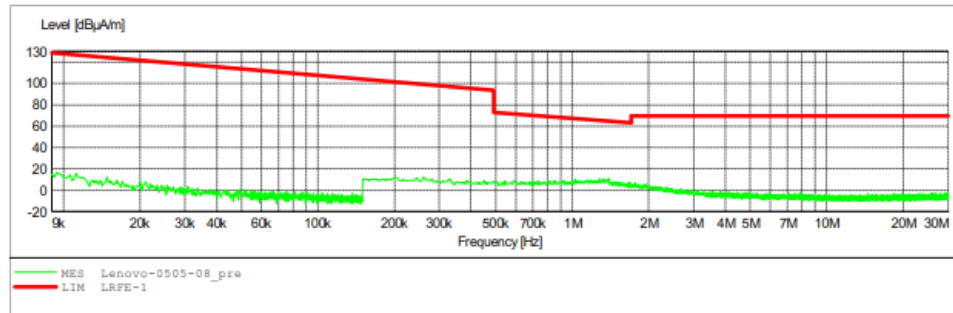
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT: Lenovo 500 Multimedia Controller M/N:L500-C
Manufacturer: Lenovo
Operating Condition: TX 2479MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: DC 3V
Comment: Y
Start of Test: 2017-5-5 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



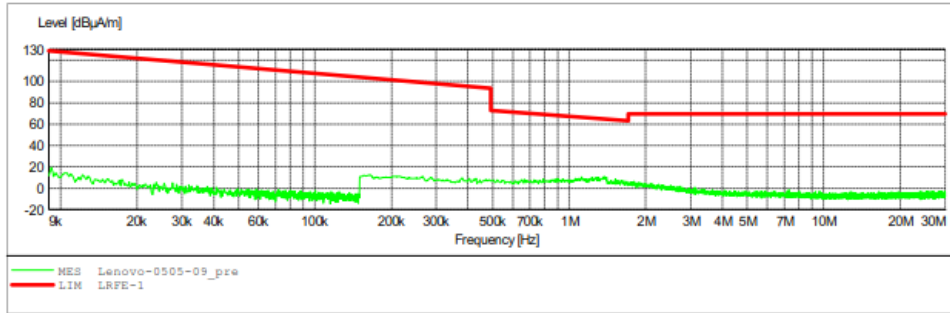
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Test Specification: DC 3V
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SCAN TABLE: "LFRE Fin"

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150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



Produkte
Products

30MHz - 1GHz



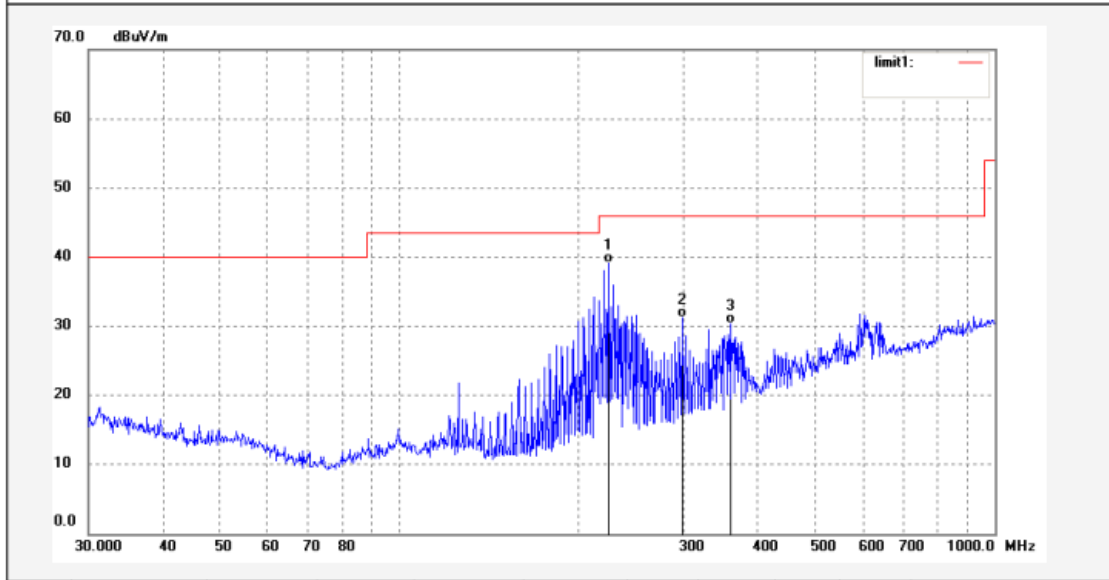
ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: lenovo #1790	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: L500-C	
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	224.5192	50.32	-11.26	39.06	46.00	-6.94	QP			
2	298.2681	40.23	-9.04	31.19	46.00	-14.81	QP			
3	360.4476	37.65	-7.26	30.39	46.00	-15.61	QP			



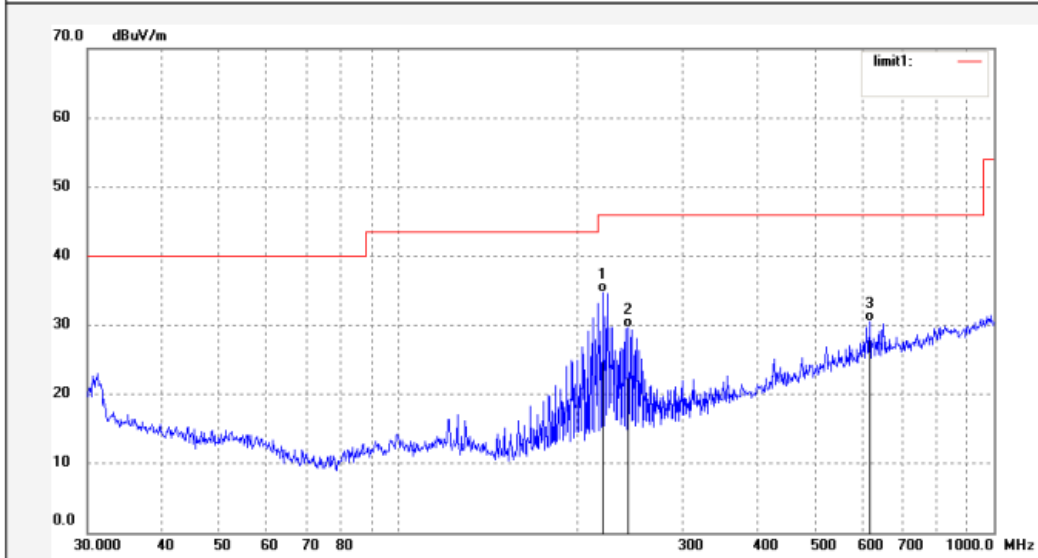
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lenovo #1791	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: L500-C	
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	220.6170	46.18	-11.48	34.70	46.00	-11.30	QP			
2	242.5252	40.18	-10.60	29.58	46.00	-16.42	QP			
3	618.5368	32.65	-2.11	30.54	46.00	-15.46	QP			



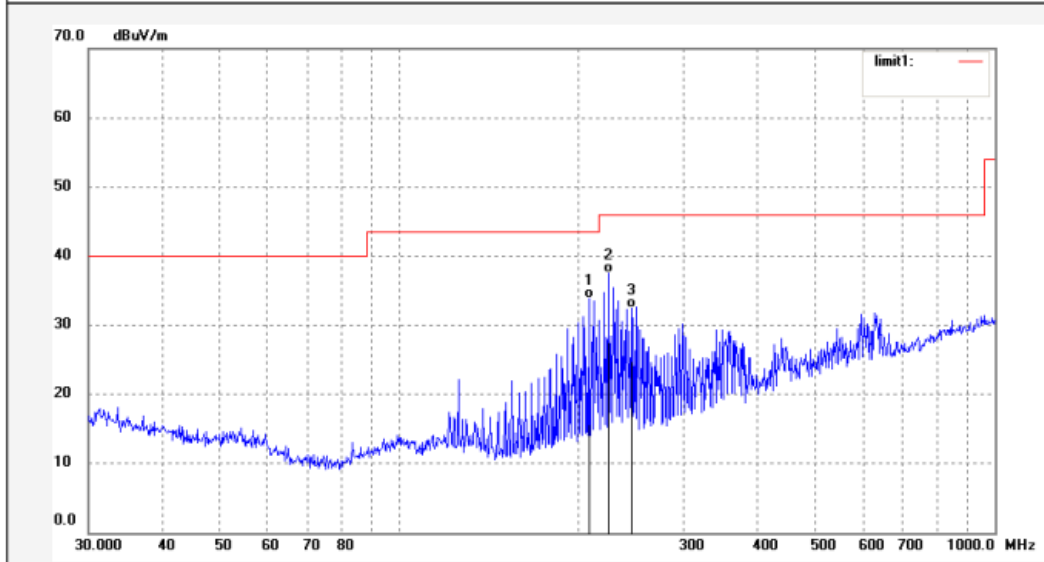
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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: lenovo #1793	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2441MHz	Distance: 3m
Model: L500-C	
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	207.8500	45.99	-12.05	33.94	43.50	-9.56	QP			
2	224.5192	48.79	-11.26	37.53	46.00	-8.47	QP			
3	245.0900	43.09	-10.58	32.51	46.00	-13.49	QP			



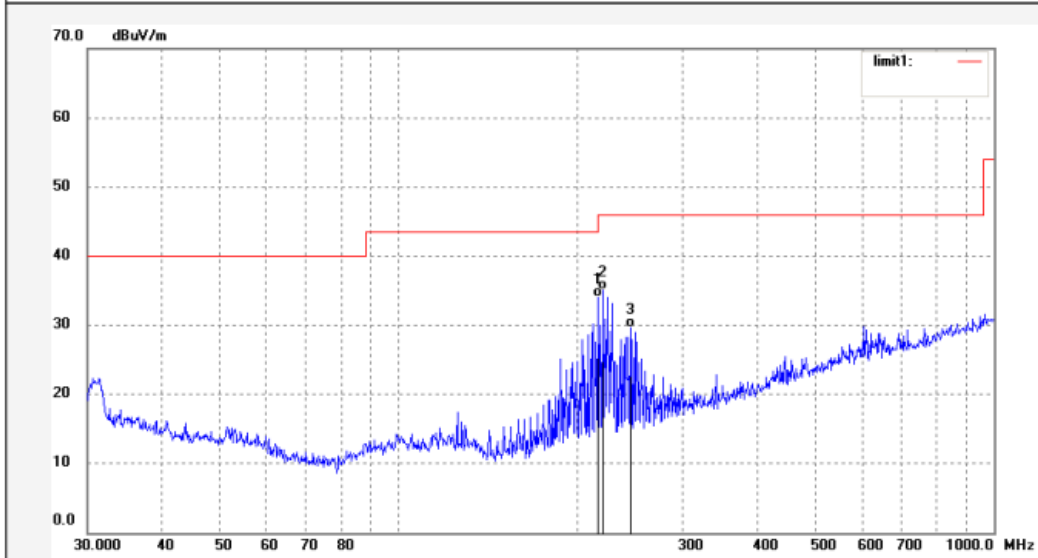
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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: lenovo #1792	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2441MHz	Distance: 3m
Model: L500-C	
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	216.0240	45.64	-11.66	33.98	46.00	-12.02	QP			
2	220.6170	46.62	-11.48	35.14	46.00	-10.86	QP			
3	245.0900	40.25	-10.58	29.67	46.00	-16.33	QP			



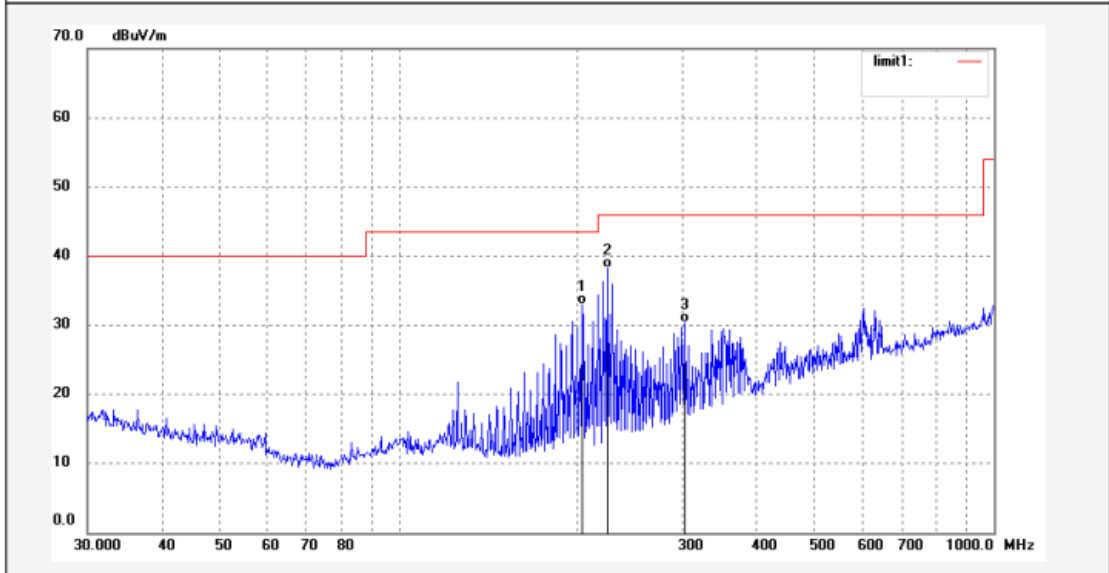
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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: lenovo #1794	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2479MHz	Distance: 3m
Model: L500-C	
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	203.5227	45.07	-12.16	32.91	43.50	-10.59	QP			
2	224.5192	49.50	-11.26	38.24	46.00	-7.76	QP			
3	302.4812	39.30	-8.96	30.34	46.00	-15.66	QP			



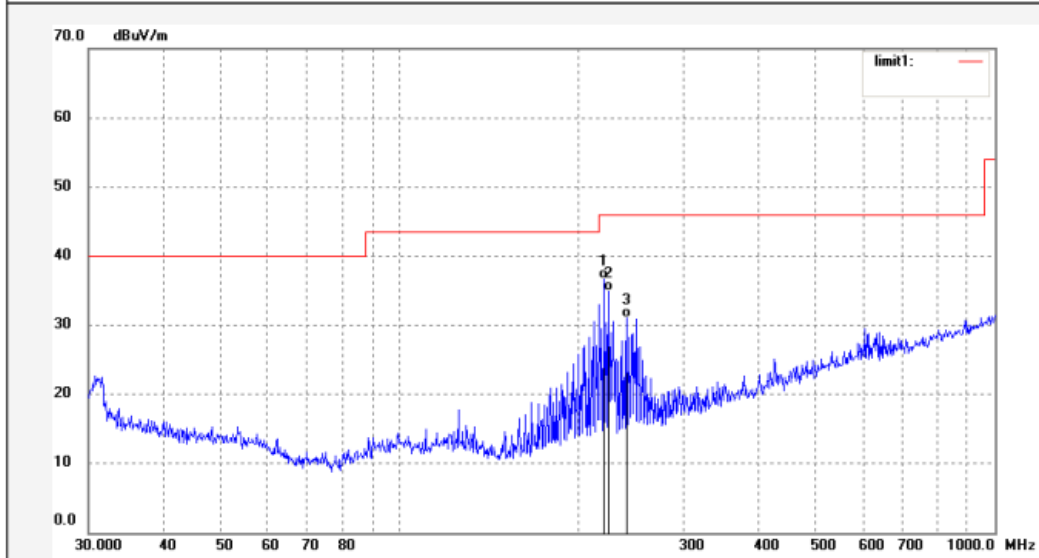
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Fax:+86-0755-26503396

Job No.: lenovo #1795	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2479MHz	Distance: 3m
Model: L500-C	
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	220.6170	48.10	-11.48	36.62	46.00	-9.38	QP			
2	224.5192	46.11	-11.26	34.85	46.00	-11.15	QP			
3	240.8303	41.62	-10.61	31.01	46.00	-14.99	QP			

Produkte
Products

1GHz - 18GHz



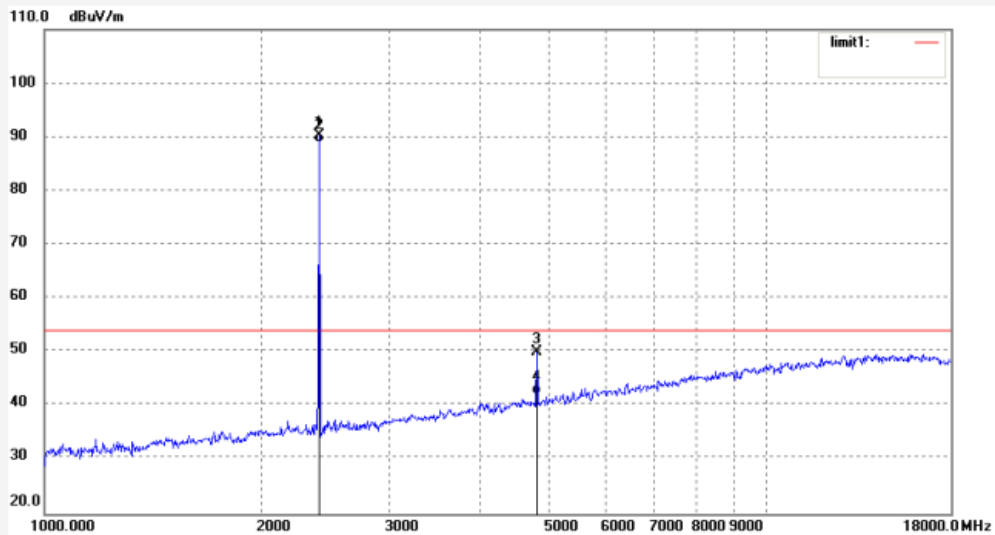
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Site: 2# Chamber
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Job No.: lenovo #1774	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: L500-C	
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	92.01	-1.61	90.40	114.00	-23.60	peak			
2	2402.000	90.61	-1.61	89.00	94.00	-5.00	AVG			
3	4804.026	45.18	4.90	50.08	74.00	-23.92	peak			
4	4804.026	37.24	4.90	42.14	54.00	-11.86	AVG			



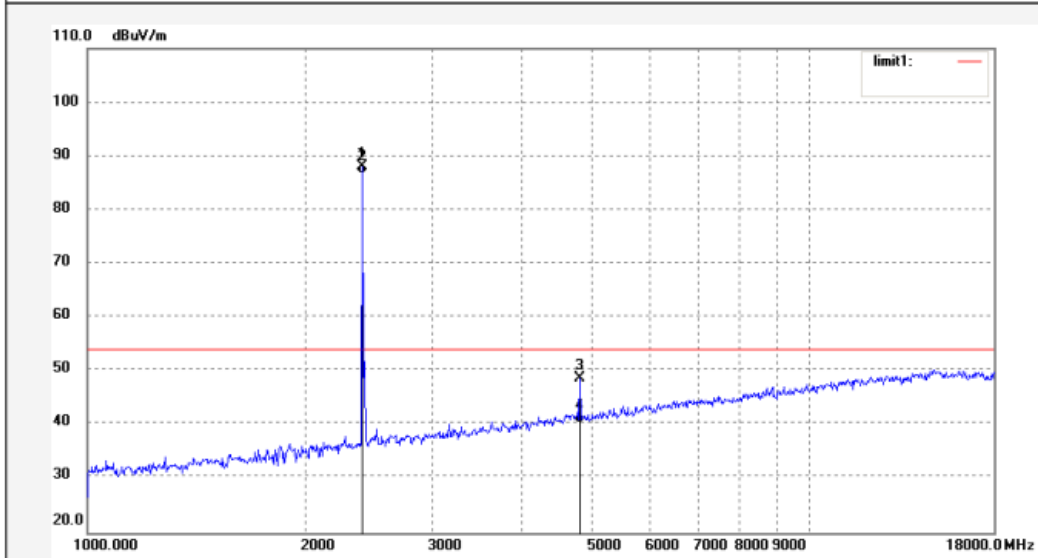
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Job No.: lenovo #1775	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: L500-C	
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	89.75	-1.61	88.14	114.00	-25.86	peak			
2	2402.000	88.35	-1.61	86.74	94.00	-7.26	AVG			
3	4804.025	43.73	4.90	48.63	74.00	-25.37	peak			
4	4804.025	35.43	4.90	40.33	54.00	-13.67	AVG			



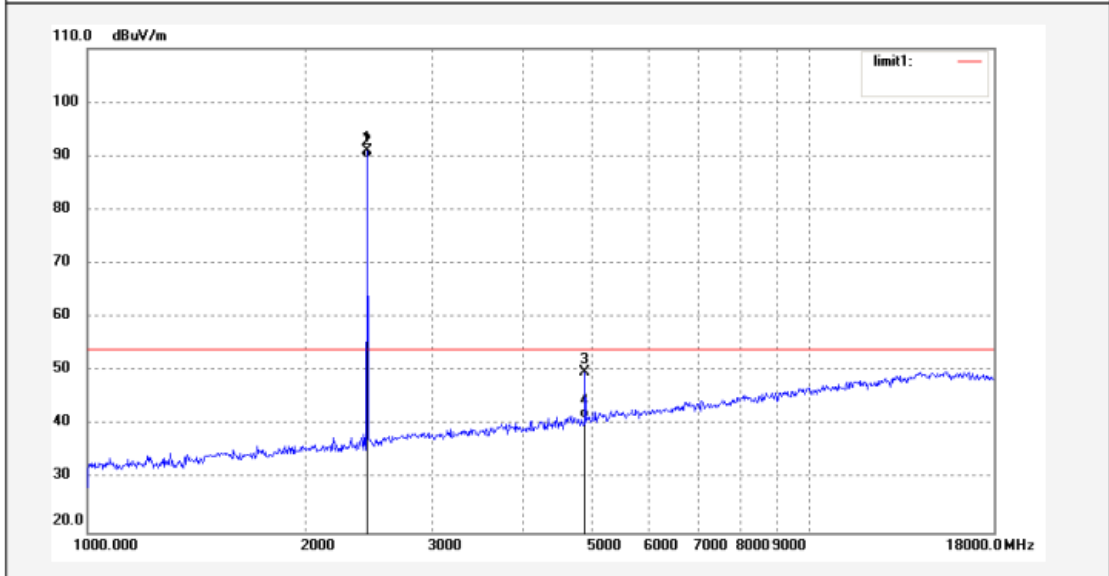
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Site: 2# Chamber
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Job No.: lenovo #1778	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2441MHz	Distance: 3m
Model: L500-C	
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	2441.000	92.35	-1.44	90.91	114.00	-23.09	peak			
2	2441.000	91.05	-1.44	89.61	94.00	-4.39	AVG			
3	4882.027	44.30	5.61	49.91	74.00	-24.09	peak			
4	4882.027	35.73	5.61	41.34	54.00	-12.66	AVG			



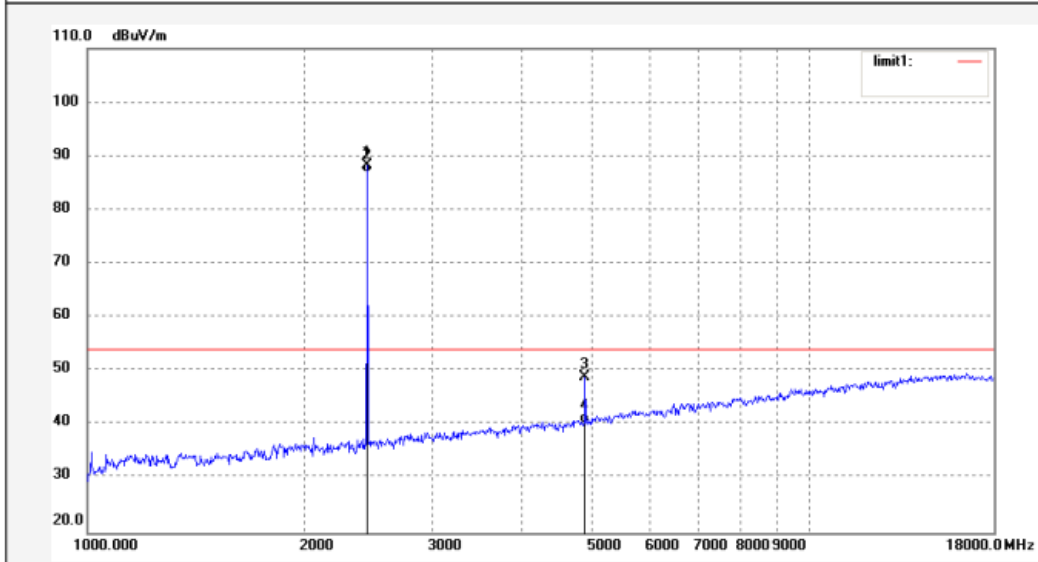
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lenovo #1779	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2441MHz	Distance: 3m
Model: L500-C	
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	2441.000	89.79	-1.44	88.35	114.00	-25.65	peak			
2	2441.000	88.49	-1.44	87.05	94.00	-6.95	AVG			
3	4882.028	43.33	5.61	48.94	74.00	-25.06	peak			
4	4882.028	34.75	5.61	40.36	54.00	-13.64	AVG			



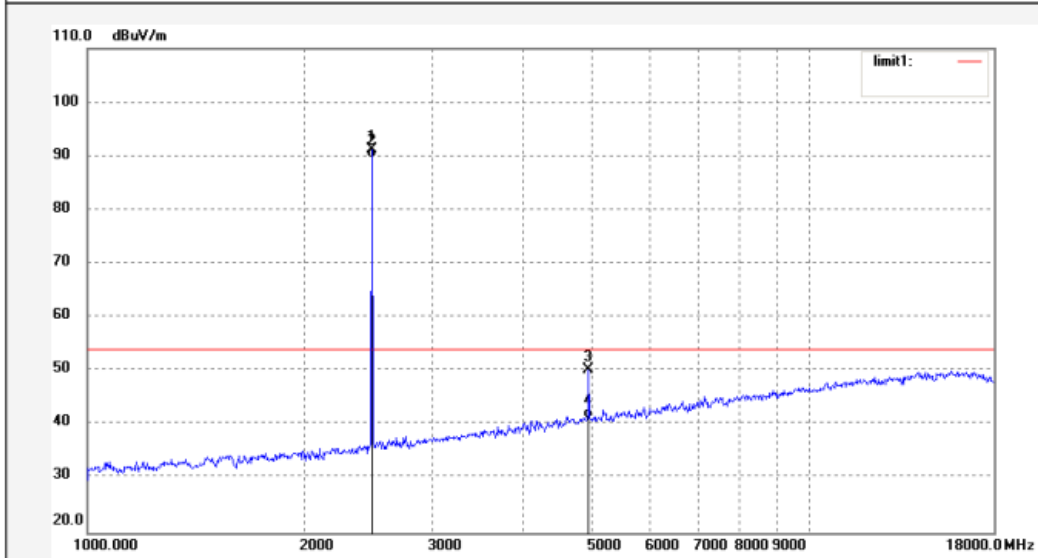
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lenovo #1781	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2479MHz	Distance: 3m
Model: L500-C	
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	92.53	-1.40	91.13	114.00	-22.87	peak			
2	2479.000	91.03	-1.40	89.63	94.00	-4.37	AVG			
3	4958.029	44.11	6.08	50.19	74.00	-23.81	peak			
4	4958.029	35.26	6.08	41.34	54.00	-12.66	AVG			



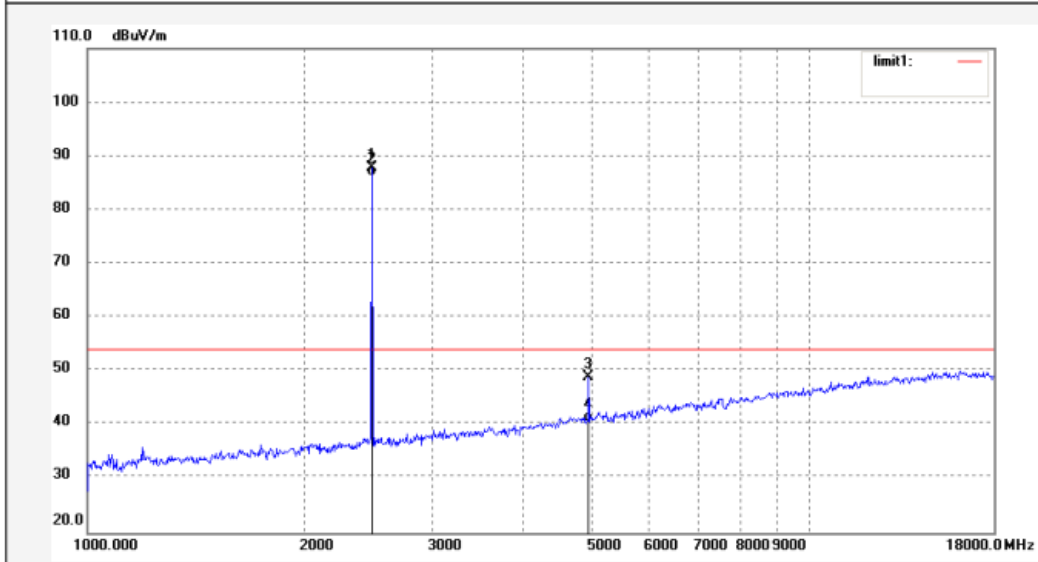
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lenovo #1780	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2479MHz	Distance: 3m
Model: L500-C	
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	89.26	-1.40	87.86	114.00	-26.14	peak			
2	2479.000	87.76	-1.40	86.36	94.00	-7.64	AVG			
3	4958.026	42.90	6.08	48.98	74.00	-25.02	peak			
4	4958.026	34.59	6.08	40.67	54.00	-13.33	AVG			

18GHz - 26.5GHz



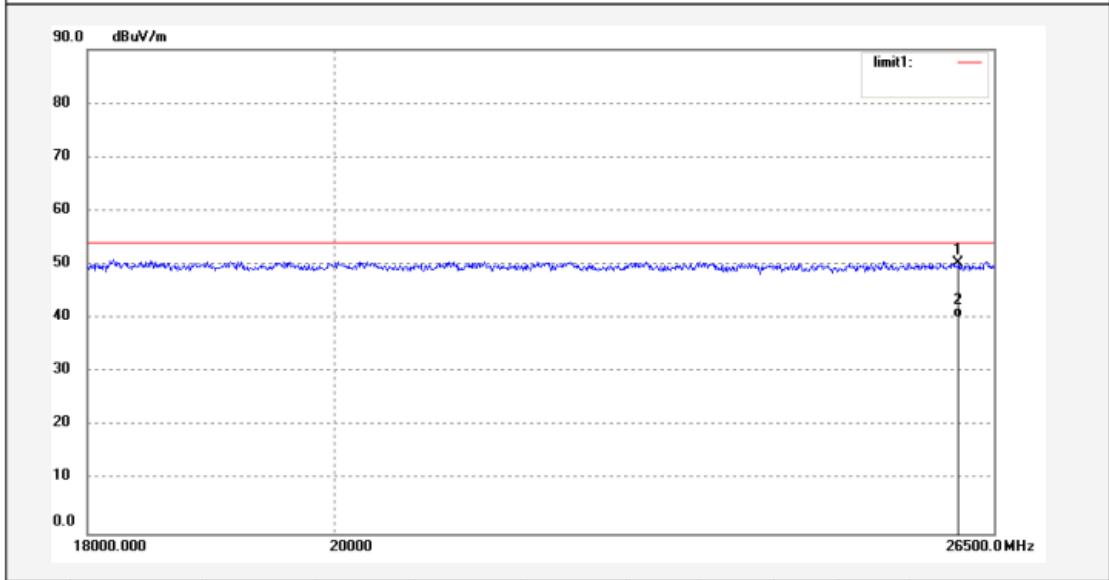
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: lenovo #1785	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: L500-C	
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	26103.270	10.04	40.30	50.34	74.00	-23.66	peak			
2	26103.270	-0.06	40.30	40.24	54.00	-13.76	AVG			



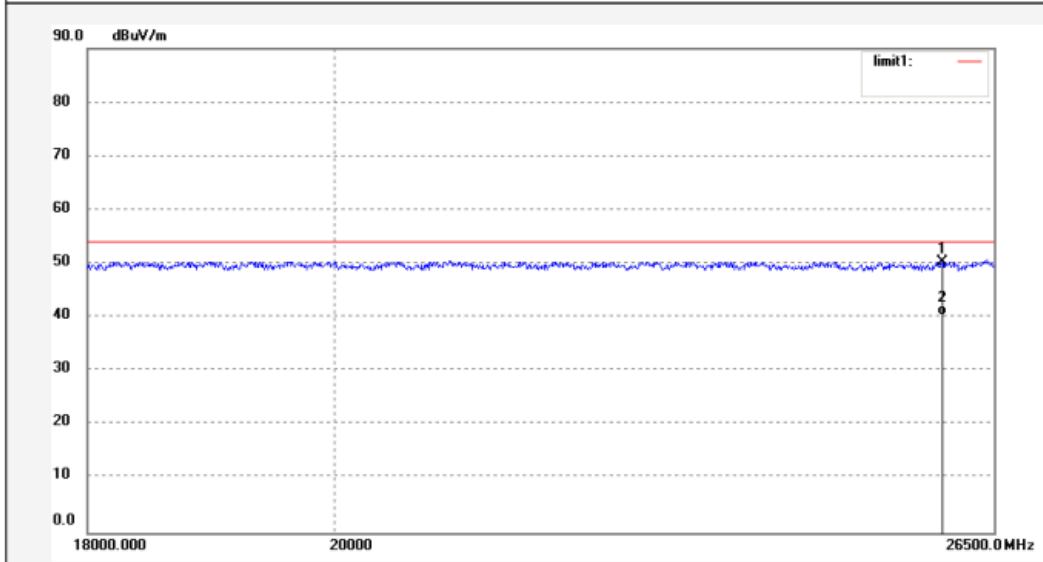
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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: lenovo #1784	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: L500-C	
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	25922.172	9.25	41.00	50.25	74.00	-23.75	peak			
2	25922.172	-0.66	41.00	40.34	54.00	-13.66	AVG			



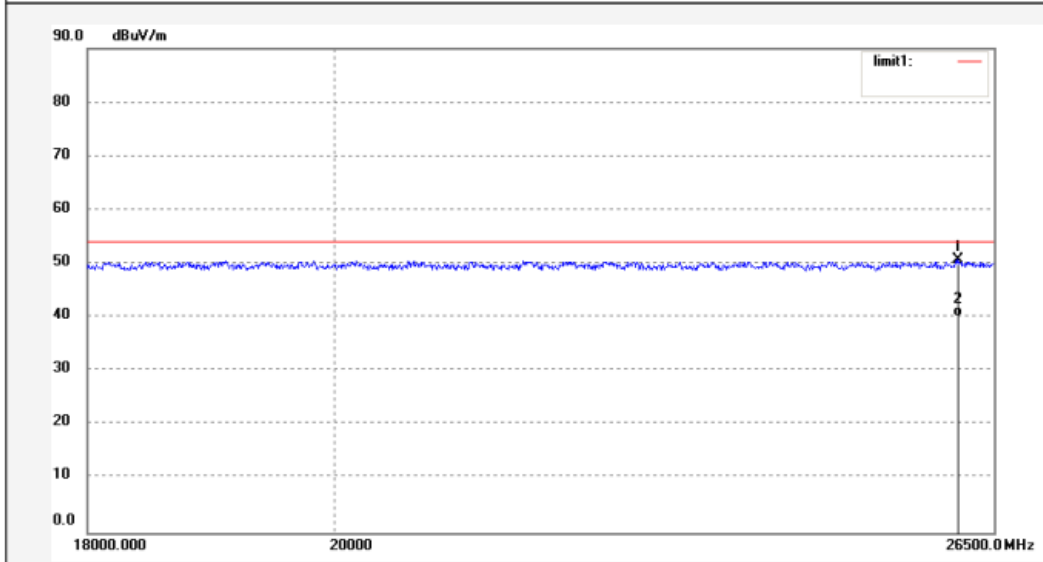
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Fax:+86-0755-26503396

Job No.: lenovo #1786	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2441MHz	Distance: 3m
Model: L500-C	
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	26103.270	10.47	40.30	50.77	74.00	-23.23	peak			
2	26103.270	-0.13	40.30	40.17	54.00	-13.83	AVG			



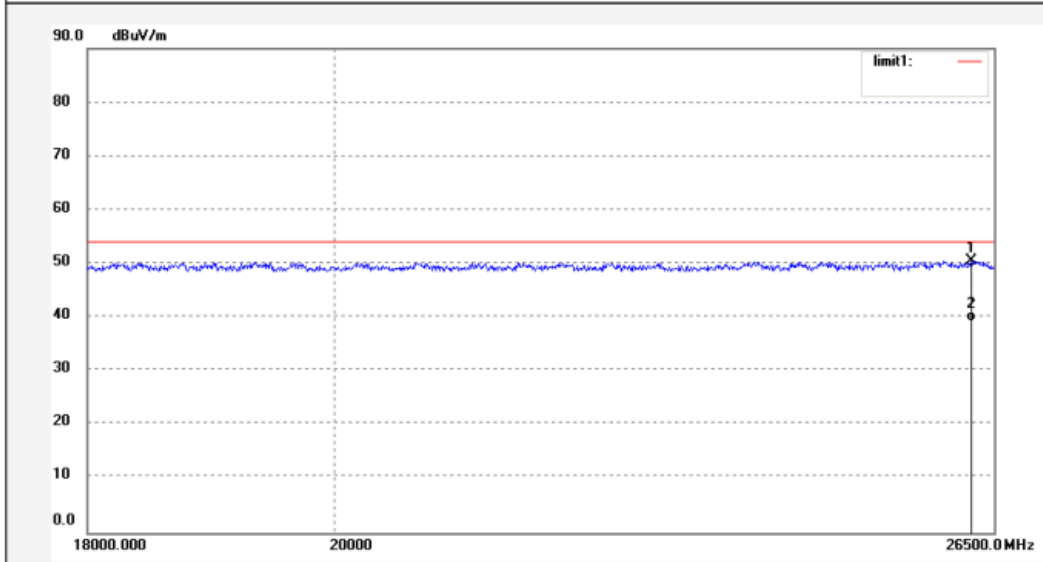
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Site: 2# Chamber
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Job No.: lenovo #1787	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2441MHz	Distance: 3m
Model: L500-C	
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	26244.998	9.66	40.94	50.60	74.00	-23.40	peak			
2	26244.998	-1.70	40.94	39.24	54.00	-14.76	AVG			



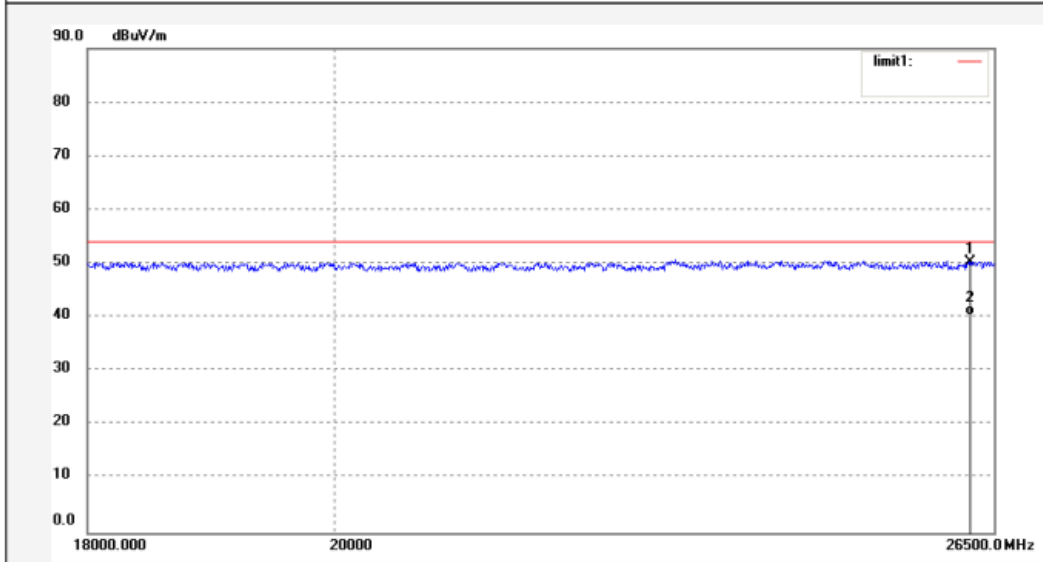
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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: lenovo #1789	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2479MHz	Distance: 3m
Model: L500-C	
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	26234.849	10.01	40.37	50.38	74.00	-23.62	peak			
2	26234.849	-0.06	40.37	40.31	54.00	-13.69	AVG			



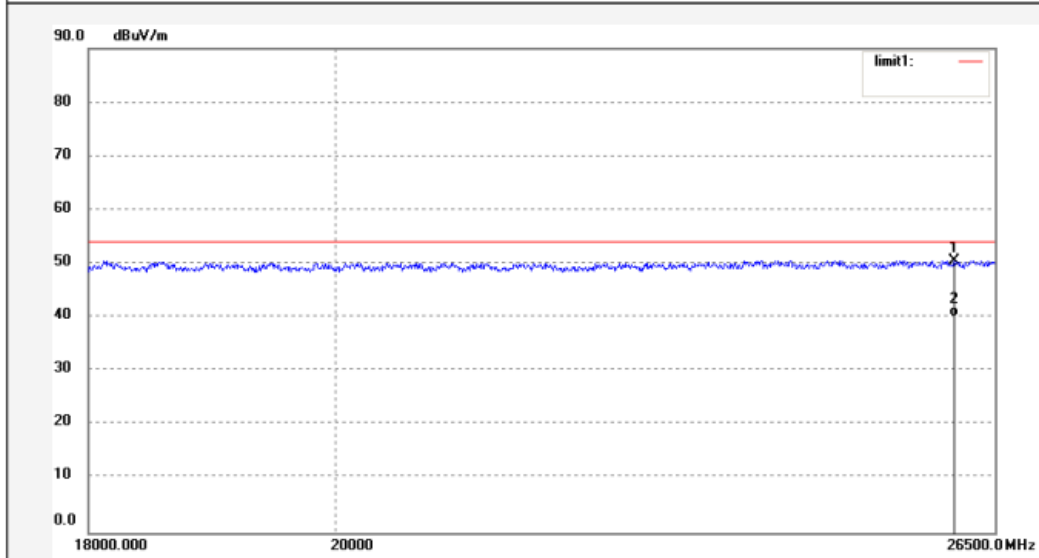
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Job No.: lenovo #1788	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2479MHz	Distance: 3m
Model: L500-C	
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	26042.764	9.46	40.97	50.43	74.00	-23.57	peak			
2	26042.764	-0.76	40.97	40.21	54.00	-13.79	AVG			

Appendix A.2: Test Results of Radiated Emissions in Restricted Bands
Low channel



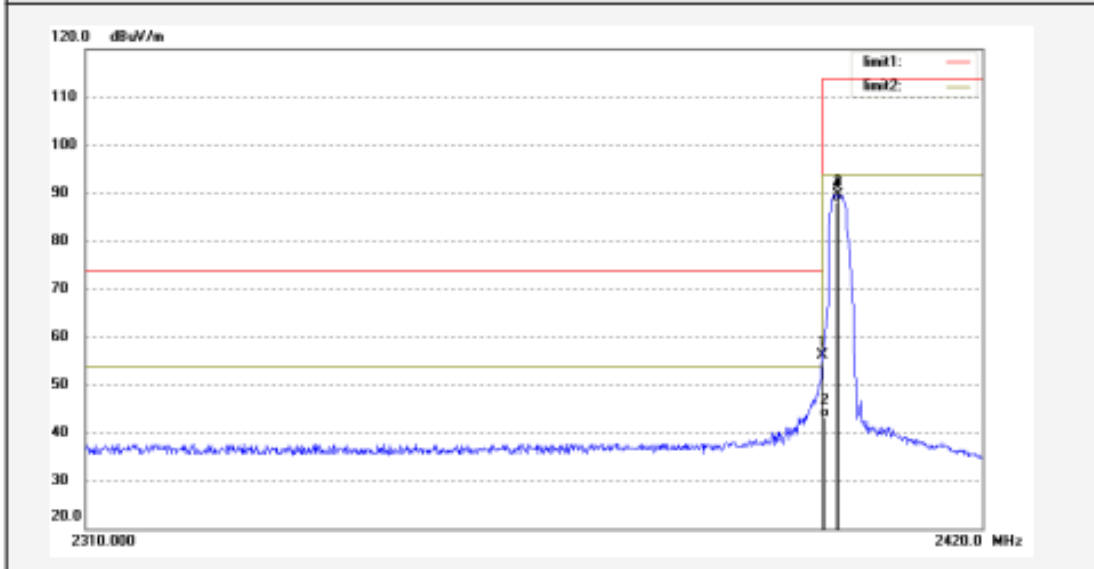
ACCURATE TECHNOLOGY CO., LTD.

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 #1777	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: L500-C	
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	57.65	-1.62	56.03	74.00	-17.97	peak			
2	2400.000	44.87	-1.62	43.25	54.00	-10.75	AVG			
3	2402.000	91.13	-1.61	89.52	114.00	-24.48	peak			
4	2402.000	89.73	-1.61	88.12	94.00	-5.88	AVG			

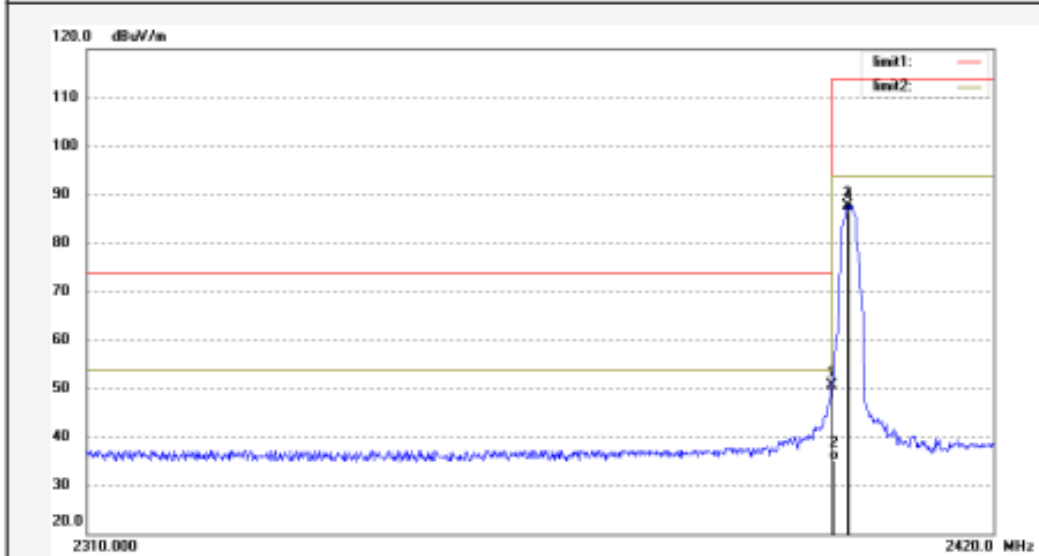


ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #1776	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: L500-C	
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	52.29	-1.62	50.67	74.00	-23.33	peak			
2	2400.000	36.76	-1.62	35.14	54.00	-18.86	AVG			
3	2402.000	89.36	-1.61	87.75	114.00	-26.25	peak			
4	2402.000	87.96	-1.61	86.35	94.00	-7.65	AVG			

High channel

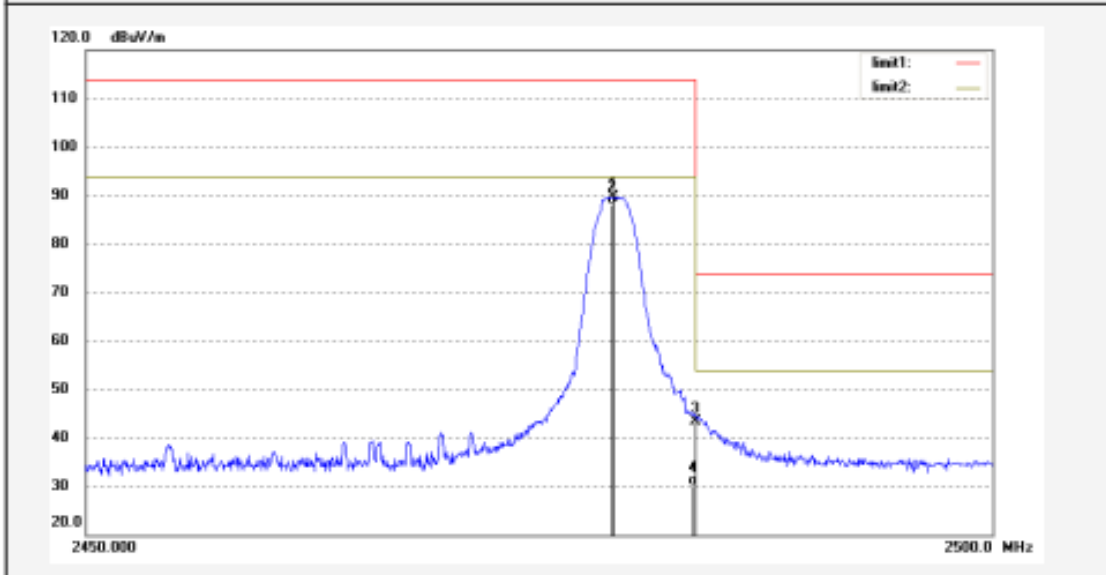


ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #1782	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2479MHz	Distance: 3m
Model: L500-C	
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	90.98	-1.40	89.58	114.00	-24.42	peak			
2	2479.000	89.48	-1.40	88.08	94.00	-5.92	AVG			
3	2483.500	44.80	-1.40	43.40	74.00	-30.60	peak			
4	2483.500	31.64	-1.40	30.24	54.00	-23.76	AVG			

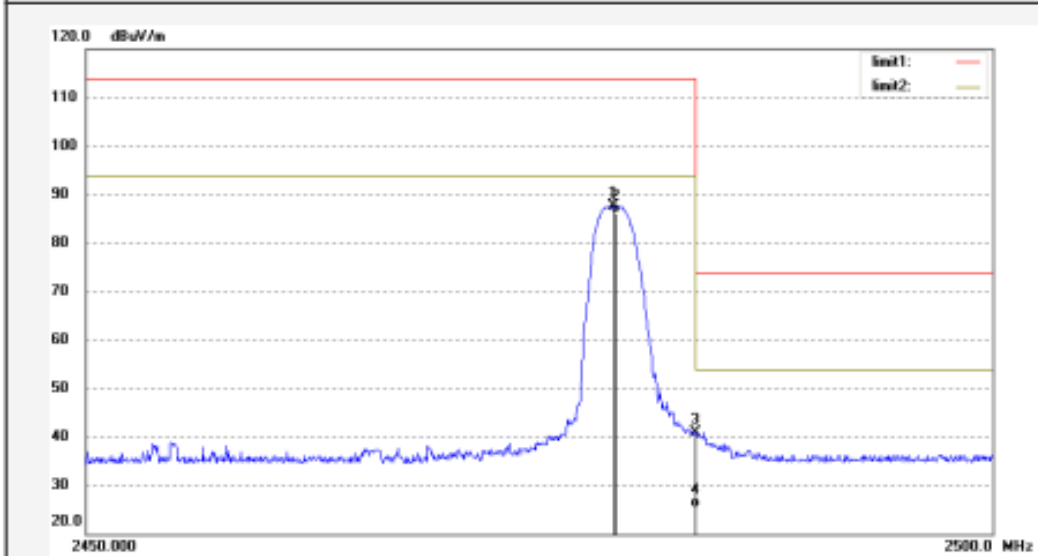


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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #1783	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: DC 3V
Test item: Radiation Test	Date: 17/05/05/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Lenovo 500 Multimedia Controller	Engineer Signature: WADE
Mode: TX 2479MHz	Distance: 3m
Model: L500-C	
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	88.92	-1.40	87.52	114.00	-26.48	peak			
2	2479.000	87.42	-1.40	86.02	94.00	-7.98	AVG			
3	2483.500	42.18	-1.40	40.78	74.00	-33.22	peak			
4	2483.500	26.81	-1.40	25.41	54.00	-28.59	AVG			