

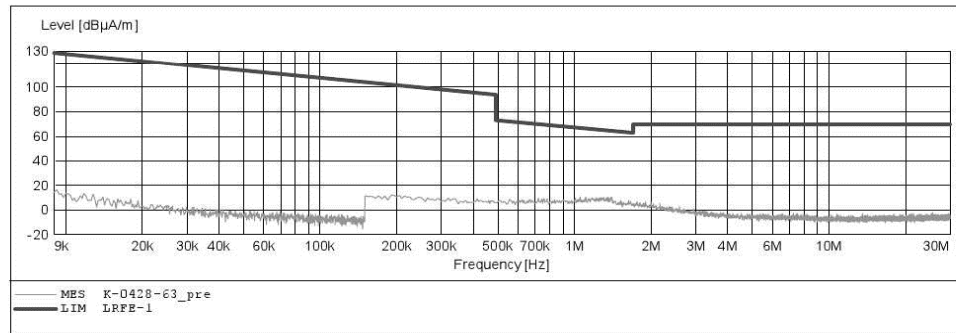
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: ThinkPad Stack Wireless Access Point M/N:R123
 Manufacturer: Lenovo
 Operating Condition: TX 5190MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2015-5-4 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB_STD_VTERM2 1.70	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



Produkte
 Products



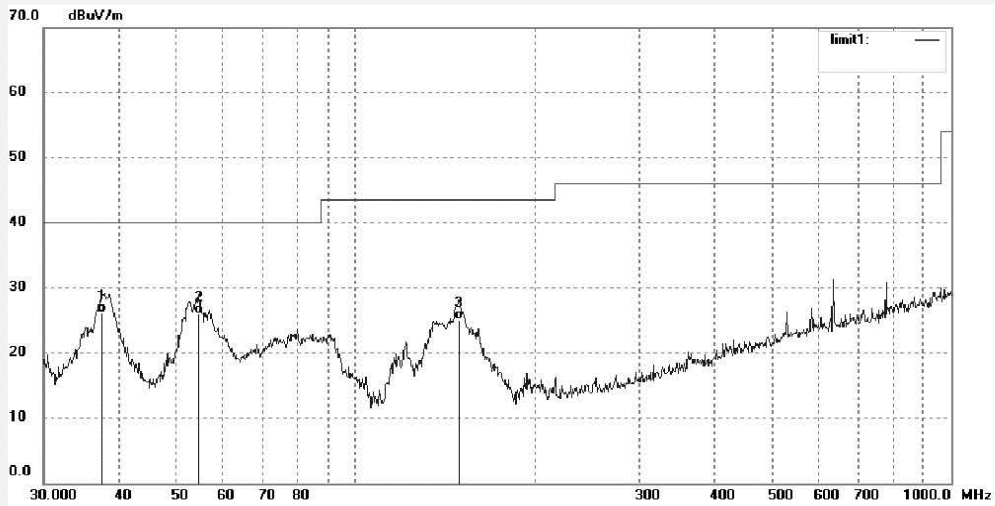
ACCURATE TECHNOLOGY CO., LTD.

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 #799	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5190MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	37.6798	37.24	-11.02	26.22	40.00	-13.78	QP			
2	54.6428	38.96	-12.95	26.01	40.00	-13.99	QP			
3	149.4857	40.27	-15.17	25.10	43.50	-18.40	QP			

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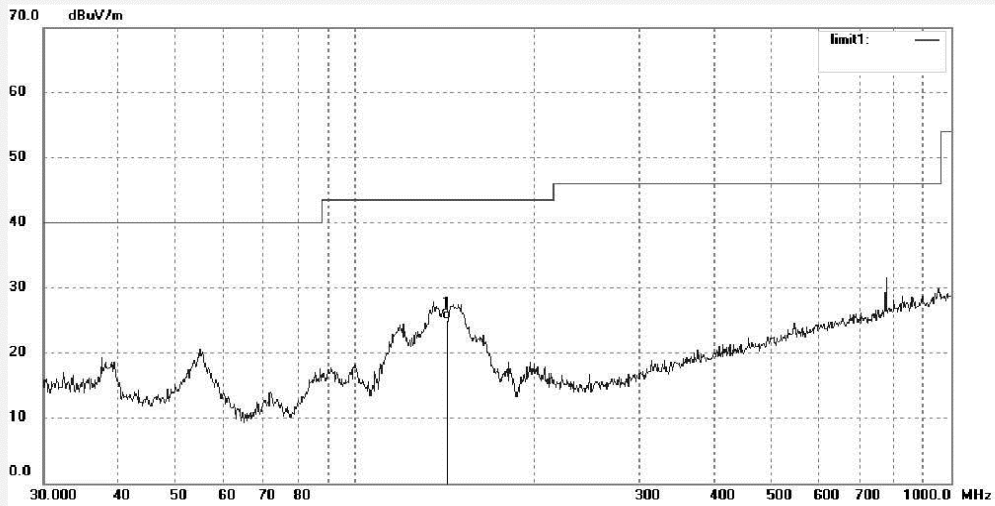
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #800	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5190MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	142.8240	40.33	-15.23	25.10	43.50	-18.40	QP			

Produkte
 Products

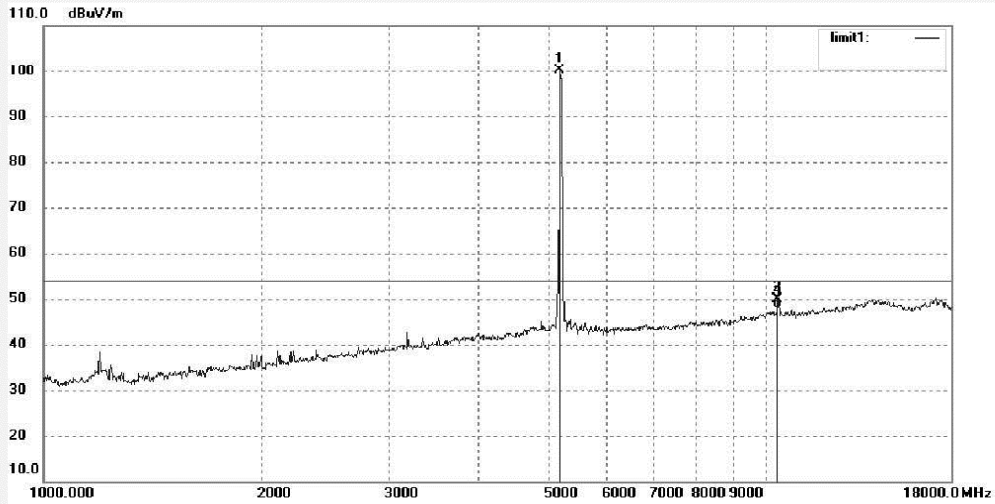


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #296	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5190MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	
Note: 802.11n HT40	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5190.000	99.57	0.65	100.22	/	/	peak			
2	10380.345	40.93	8.93	49.86	74.00	-24.14	peak			
3	10380.345	38.87	8.93	47.80	54.00	-6.20	AVG			

Produkte
 Products



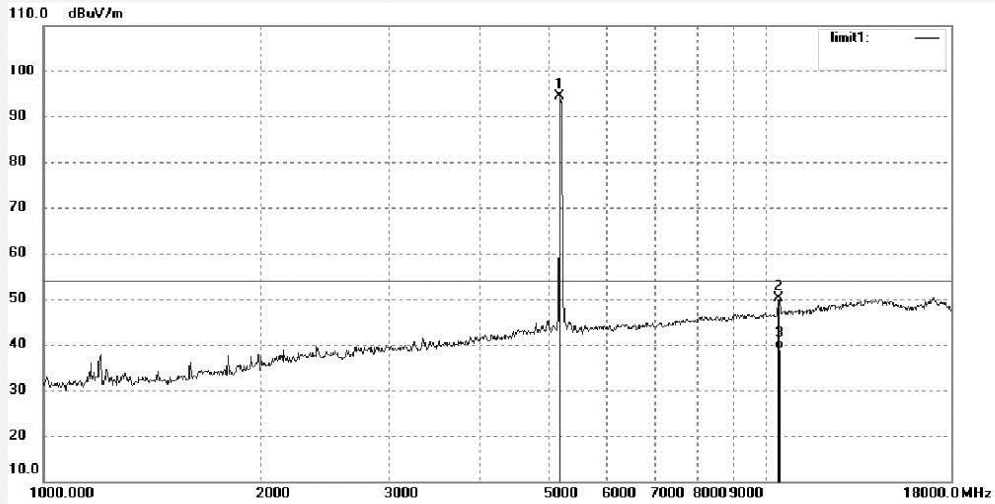
ACCURATE TECHNOLOGY CO., LTD.

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 #297	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5190MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5190.000	93.70	0.65	94.35	/	/	peak			
2	10380.340	41.25	8.93	50.18	74.00	-23.82	peak			
3	10380.340	30.02	8.93	38.95	54.00	-15.05	AVG			

Produkte
 Products



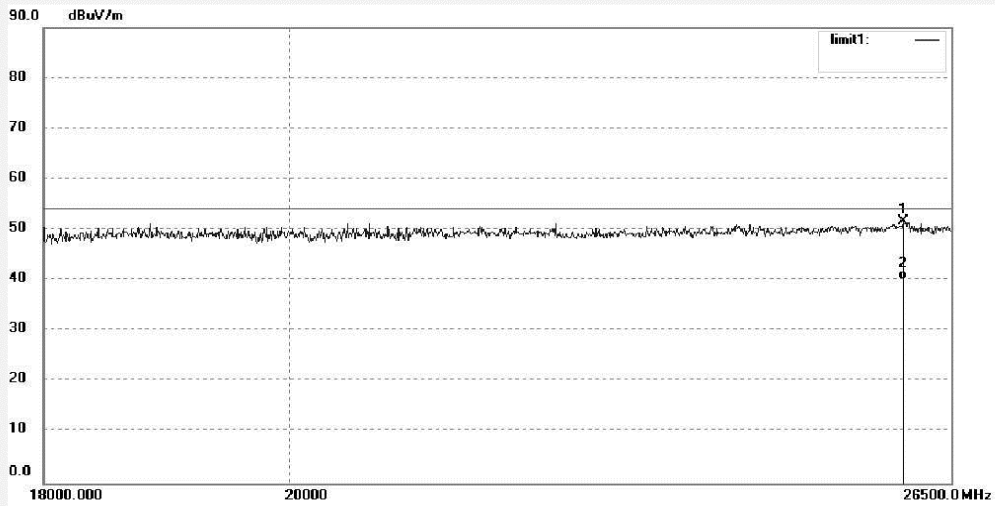
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #1133	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5190MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25961.241	35.07	16.50	51.57	74.00	-22.43	peak			
2	25961.241	23.67	16.50	40.17	54.00	-13.83	AVG			

Produkte
 Products



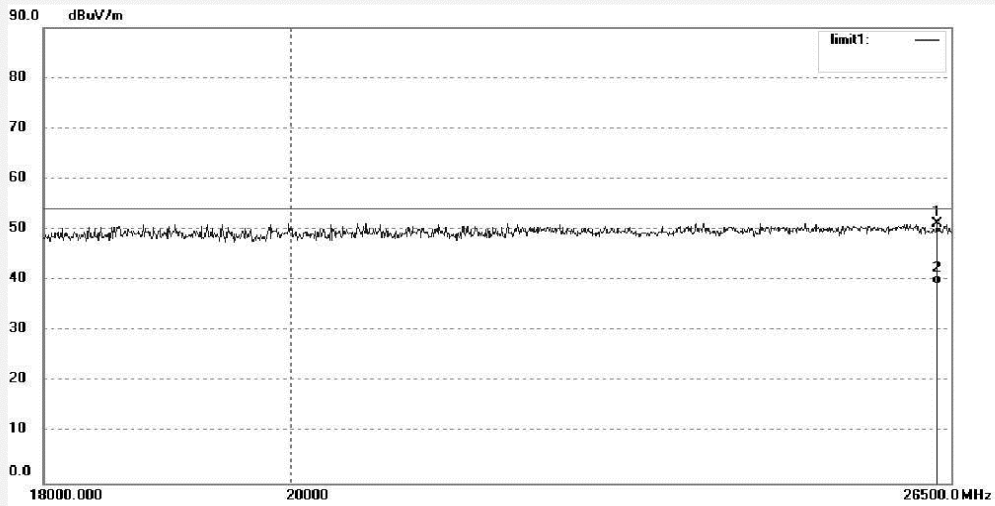
ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: lenovo #1134	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5190MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26346.396	34.13	17.00	51.13	74.00	-22.87	peak			
2	26346.396	22.34	17.00	39.34	54.00	-14.66	AVG			

EMI Sweep(1)

1 / 1

Radiated Emission

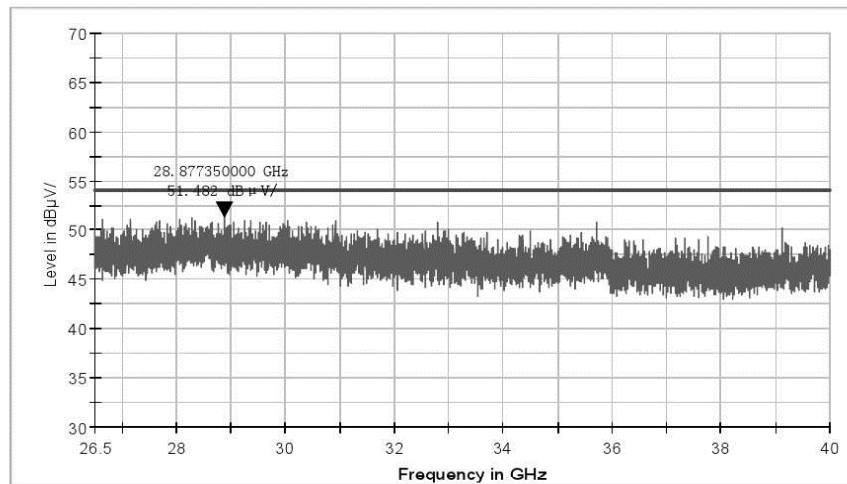
EUT Information

EUT Model Name:	ThinkPad Stack Wireless Access Point M/N:R123
Operation mode:	TX 5190MHz
Test Voltage:	AC 120V/60Hz
Comment:	802.11n HT40

Common Information

Test Site:	SMQ EMC Lab.
Environment Conditions:	
Antenna Polarization:	Horizontal
Operator Name:	
Comment:	

Copy of FCC Electric Field Strength 26.5-40GHz



EMI Sweep(1)

1 / 1

Radiated Emission

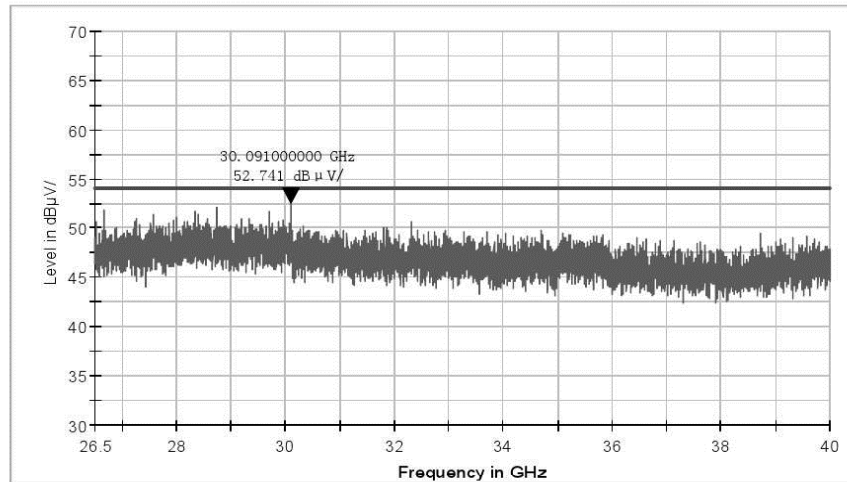
EUT Information

EUT Model Name:	ThinkPad Stack Wireless Access Point M/N:R123
Operation mode:	TX 5190MHz
Test Voltage:	AC 120V/60Hz
Comment:	802.11n HT40

Common Information

Test Site:	SMQ EMC Lab.
Environment Conditions:	
Antenna Polarization:	Vertical
Operator Name:	
Comment:	

Copy of FCC Electric Field Strength 26.5-40GHz



Produkte
Products

CH46

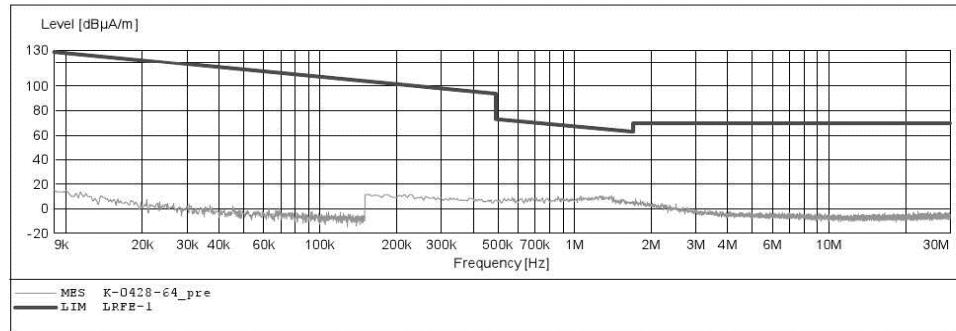
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: ThinkPad Stack Wireless Access Point M/N:R123
Manufacturer: Lenovo
Operating Condition: TX 5230MHz
Test Site: 2# Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-5-4 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB_STD	VTERM2	1.70	Detector	Meas.	IF	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M			
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M			



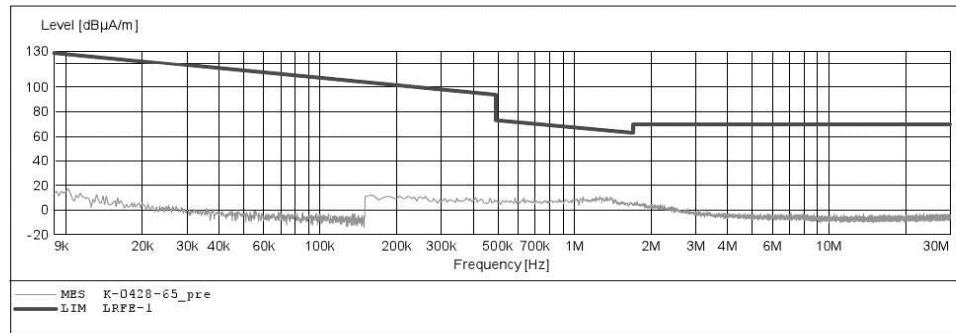
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: ThinkPad Stack Wireless Access Point M/N:R123
 Manufacturer: Lenovo
 Operating Condition: TX 5230MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2015-5-4 /

SCAN TABLE: "LFRE Fin"

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



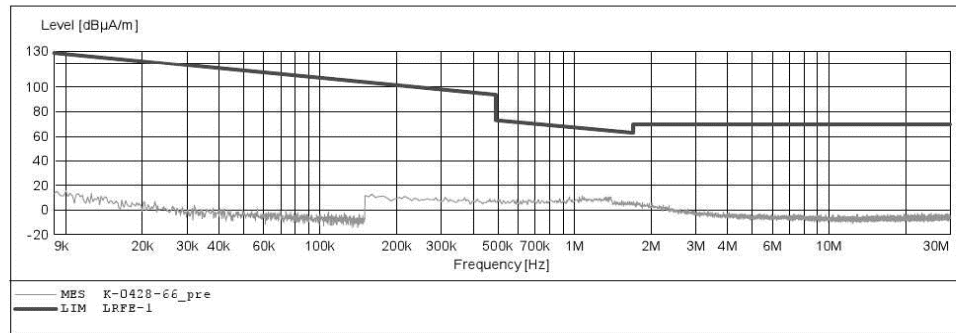
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: ThinkPad Stack Wireless Access Point M/N:R123
Manufacturer: Lenovo
Operating Condition: TX 5230MHz
Test Site: 2# Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: Z
Start of Test: 2015-5-4 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB_STD	VTERM2	1.70	Detector	Meas.	IF	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			



Produkte
 Products



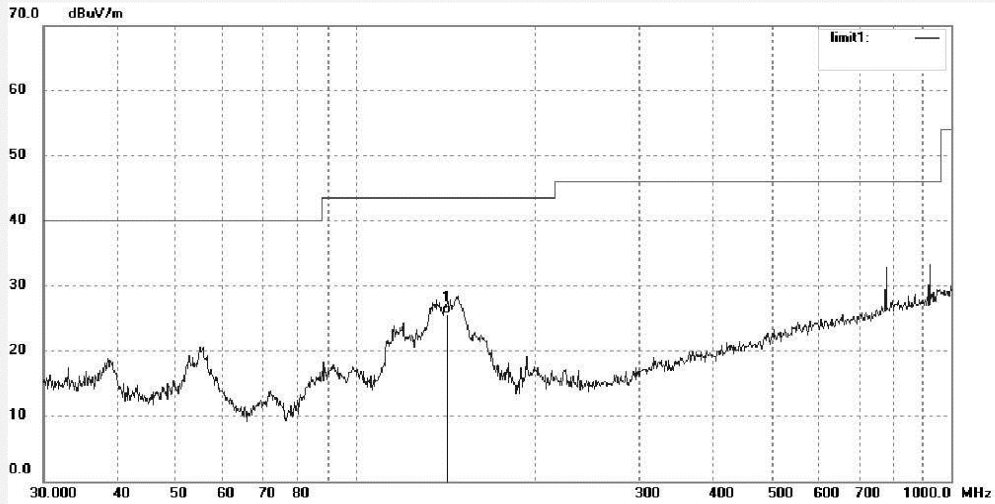
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #801	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5230MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	142.8240	40.93	-15.23	25.70	43.50	-17.80	QP			

Produkte
 Products



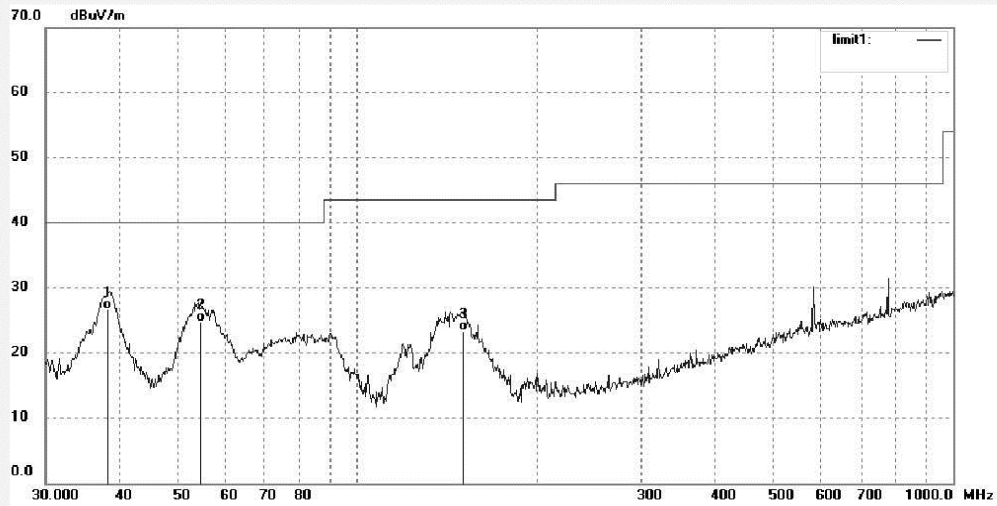
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #802	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5230MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	38.2120	37.75	-11.14	26.61	40.00	-13.39	QP			
2	54.6428	37.77	-12.95	24.82	40.00	-15.18	QP			
3	151.0663	38.56	-15.14	23.42	43.50	-20.08	QP			

Produkte
 Products

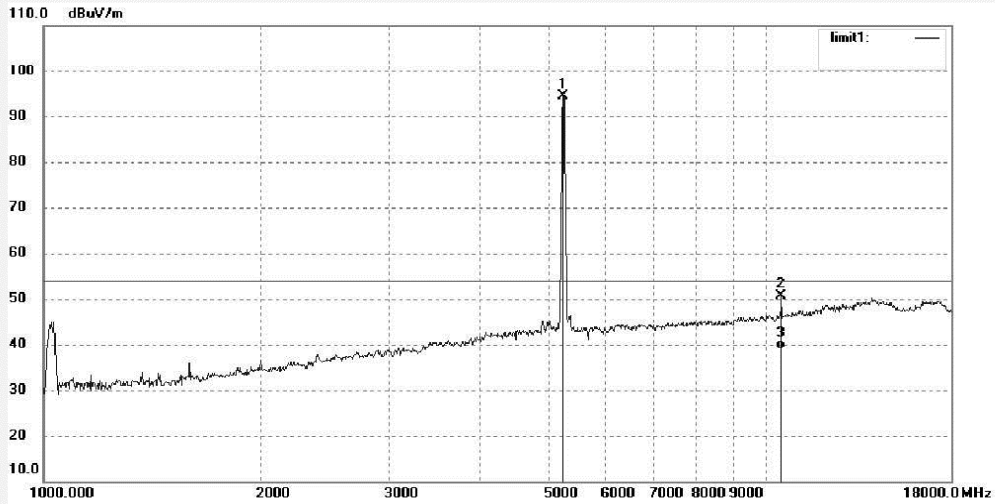


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #298	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5230MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	
Note: 802.11n HT40	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5230.000	93.72	0.78	94.50	/	/	peak			
2	10460.253	42.05	8.68	50.73	74.00	-23.27	peak			
3	10460.253	30.27	8.68	38.95	54.00	-15.05	AVG			

Produkte
 Products



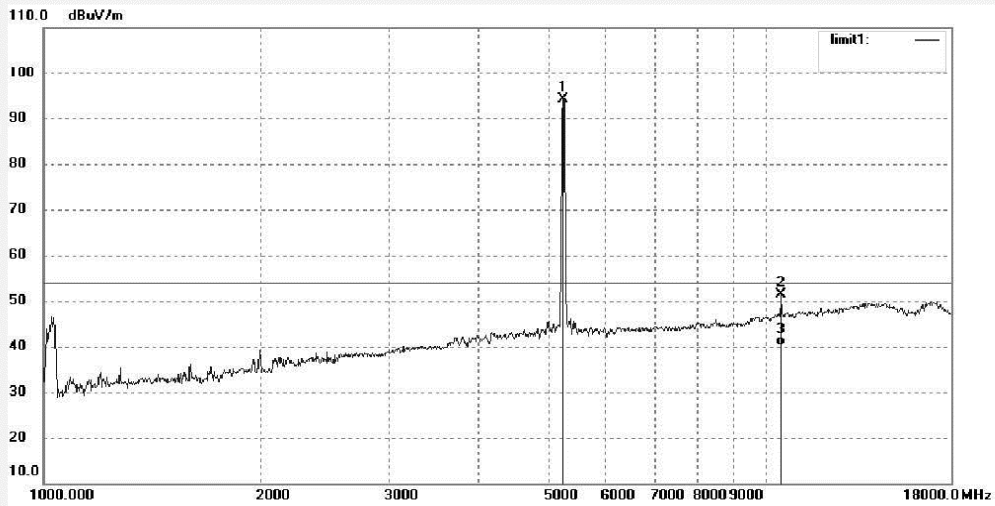
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #299	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5230MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5230.000	93.35	0.78	94.13	/	/	peak			
2	10460.318	42.61	8.68	51.29	74.00	-22.71	peak			
3	10460.318	31.45	8.68	40.13	54.00	-13.87	AVG			

Produkte
 Products



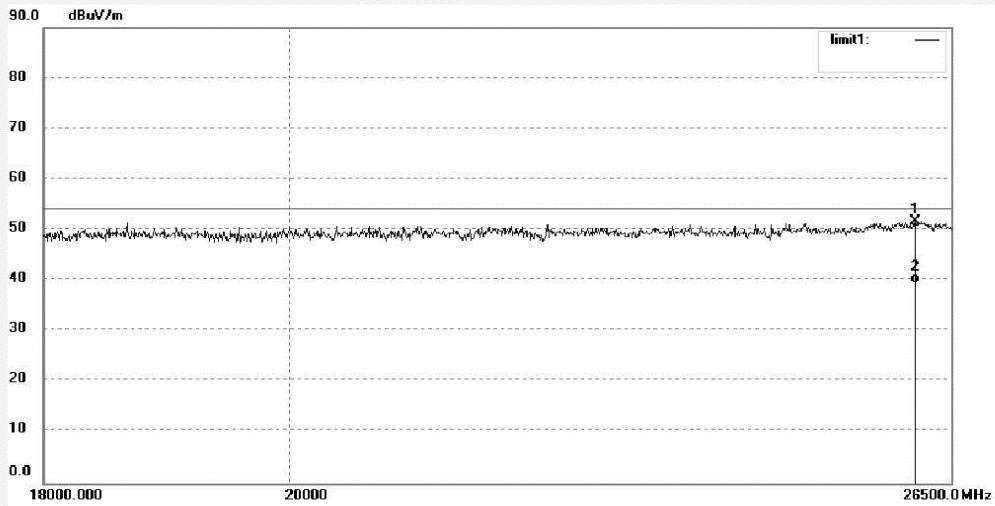
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #1135	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5230MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26102.481	34.49	17.16	51.65	74.00	-22.35	peak			
2	26102.481	22.36	17.16	39.52	54.00	-14.48	AVG			

Produkte
 Products



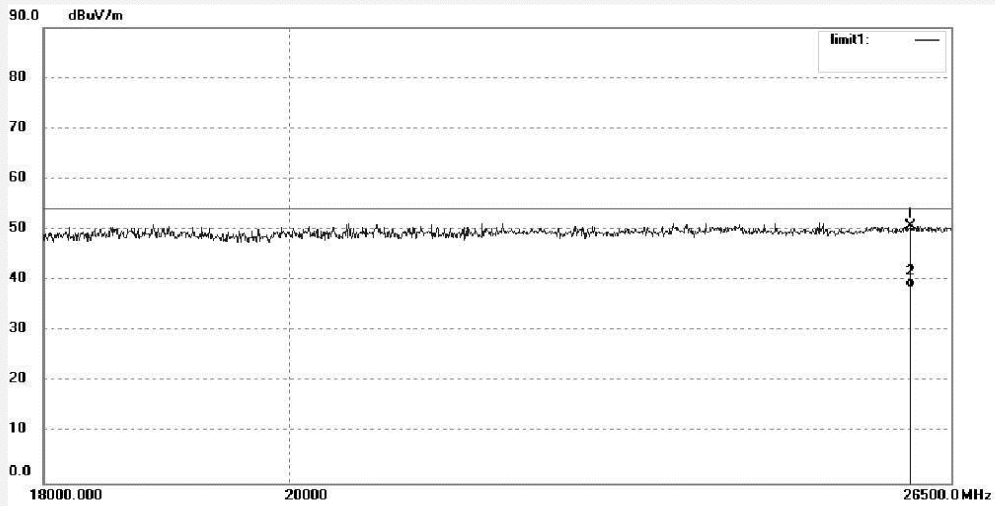
ACCURATE TECHNOLOGY CO., LTD.

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 #1136	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5230MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26051.950	34.17	16.50	50.67	74.00	-23.33	peak			
2	26051.950	22.13	16.50	38.63	54.00	-15.37	AVG			

EMI Sweep(1)

1 / 1

Radiated Emission

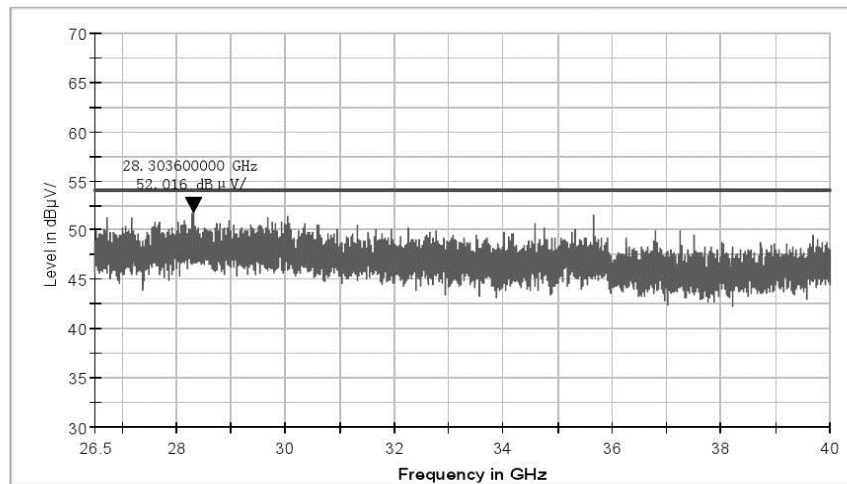
EUT Information

EUT Model Name:	ThinkPad Stack Wireless Access Point M/N:R123
Operation mode:	TX 5230MHz
Test Voltage:	AC 120V/60Hz
Comment:	802.11n HT40

Common Information

Test Site:	SMQ EMC Lab.
Environment Conditions:	
Antenna Polarization:	Horizontal
Operator Name:	
Comment:	

Copy of FCC Electric Field Strength 26.5-40GHz



EMI Sweep(1)

1 / 1

Radiated Emission

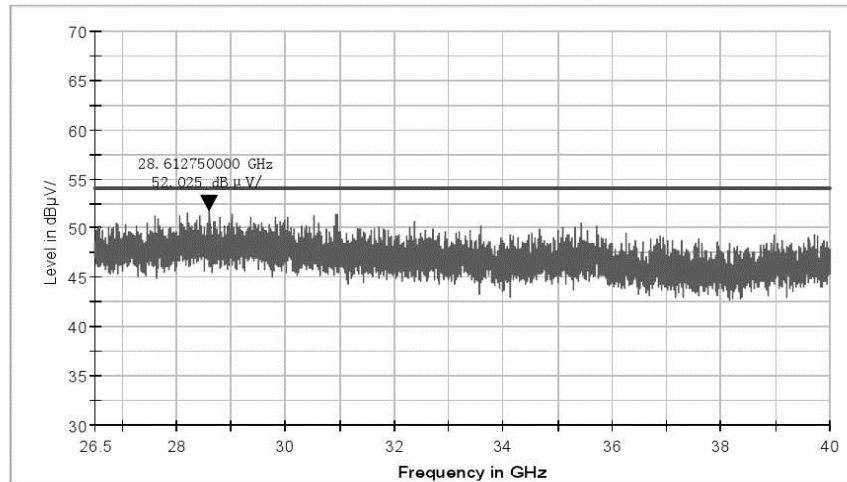
EUT Information

EUT Model Name:	ThinkPad Stack Wireless Access Point M/N:R123
Operation mode:	TX 5230MHz
Test Voltage:	AC 120V/60Hz
Comment:	802.11n HT40

Common Information

Test Site:	SMQ EMC Lab.
Environment Conditions:	
Antenna Polarization:	Vertical
Operator Name:	
Comment:	

Copy of FCC Electric Field Strength 26.5-40GHz



Produkte
 Products

802.11ac VHT80
 CH42

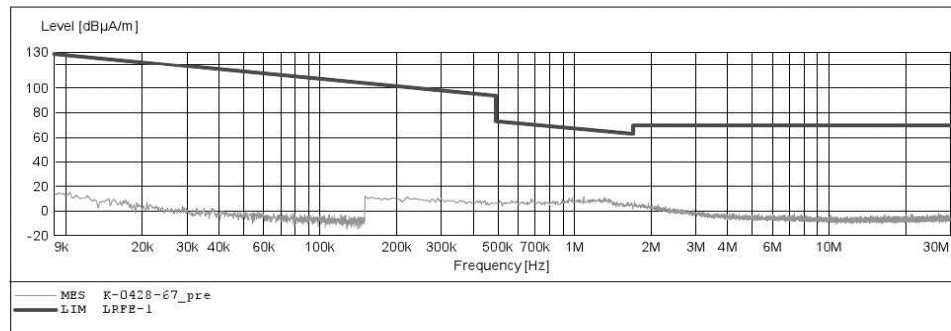
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: ThinkPad Stack Wireless Access Point M/N:R123
 Manufacturer: Lenovo
 Operating Condition: TX 5210MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2015-5-4 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



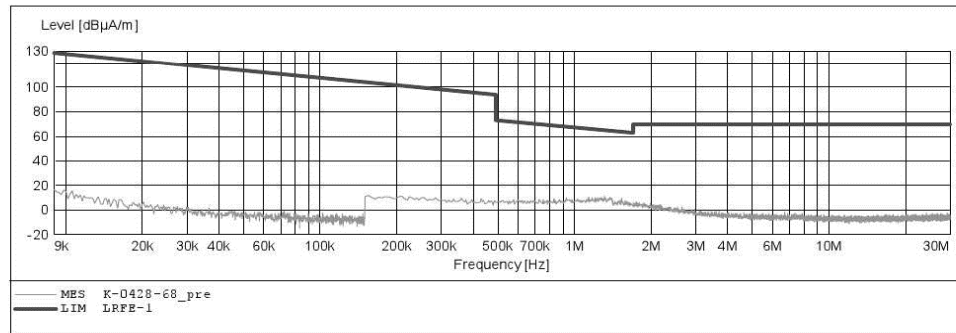
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: ThinkPad Stack Wireless Access Point M/N:R123
 Manufacturer: Lenovo
 Operating Condition: TX 5210MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2015-5-4 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



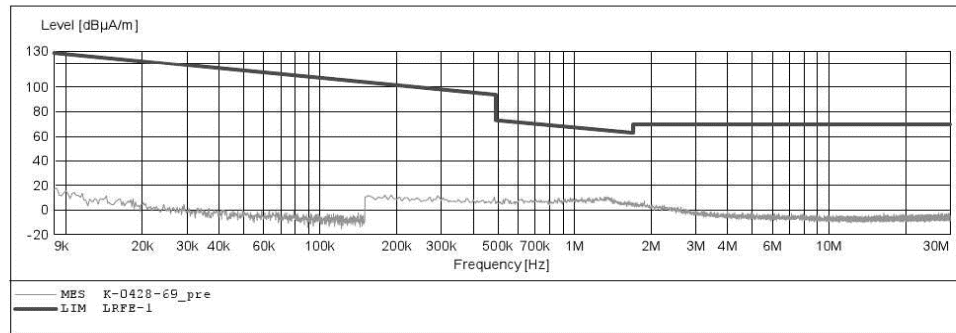
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: ThinkPad Stack Wireless Access Point M/N:R123
 Manufacturer: Lenovo
 Operating Condition: TX 5210MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2015-5-4 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	_SUB_STD_VTERM2 1.70	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



Produkte
 Products



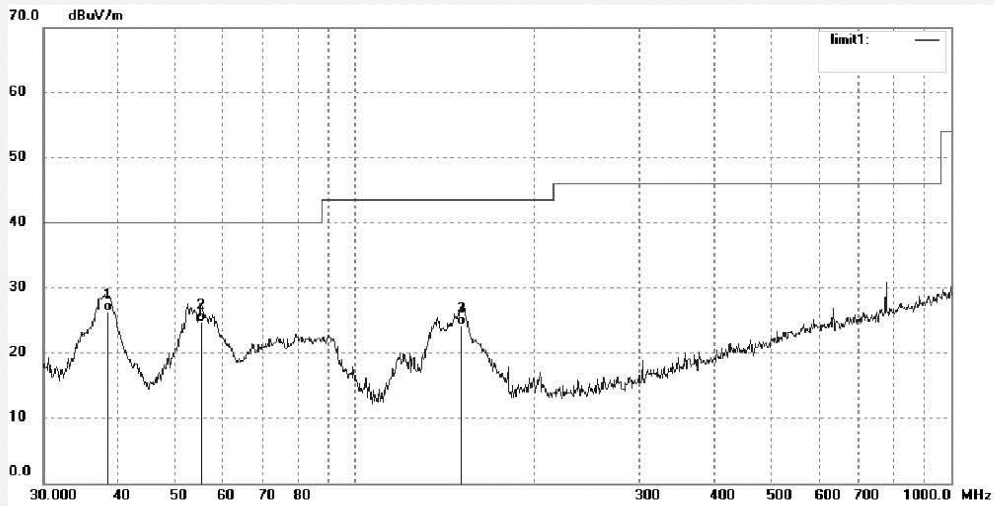
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #803	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11ac VHT80



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	38.4808	37.51	-11.21	26.30	40.00	-13.70	QP			
2	55.2207	37.75	-13.02	24.73	40.00	-15.27	QP			
3	150.5378	39.33	-15.15	24.18	43.50	-19.32	QP			

Produkte
 Products



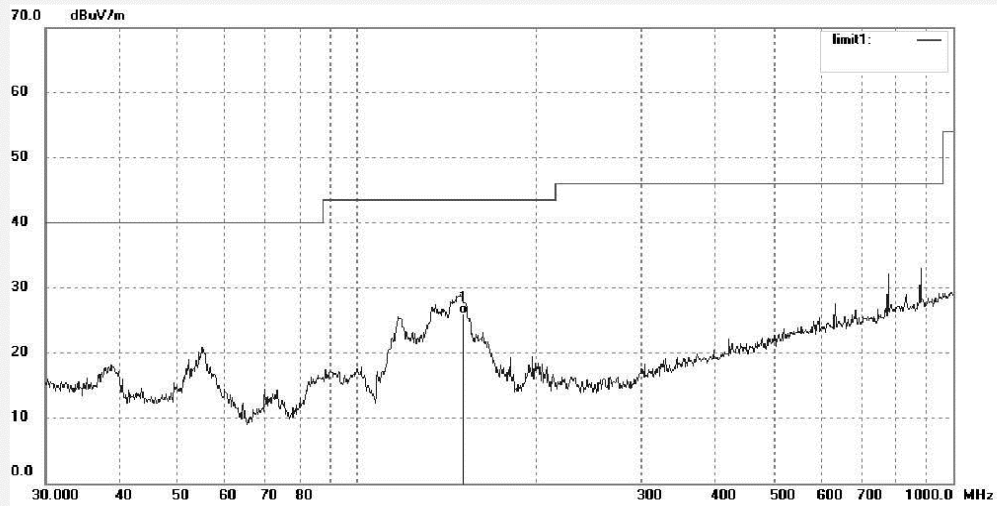
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Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: lenovo #804	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11ac VHT80



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	150.5378	41.15	-15.15	26.00	43.50	-17.50	QP			

Produkte
 Products

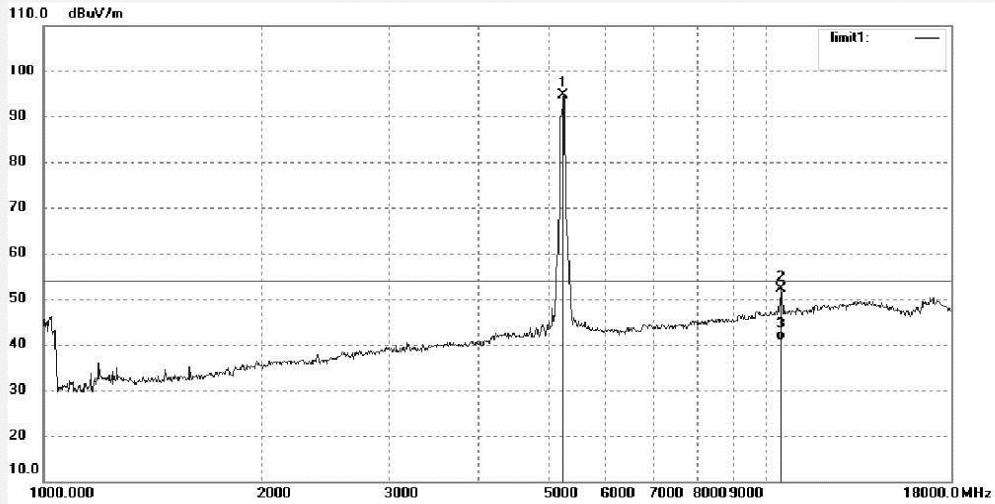


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 Fax:+86-0755-26503396

Job No.: lenovo #300	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	
Note: 802.11ac VHT80	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5230.000	93.82	0.78	94.60	/	/	peak			
2	10460.321	43.57	8.68	52.25	74.00	-21.75	peak			
3	10460.321	32.08	8.68	40.76	54.00	-13.24	AVG			

Produkte
 Products



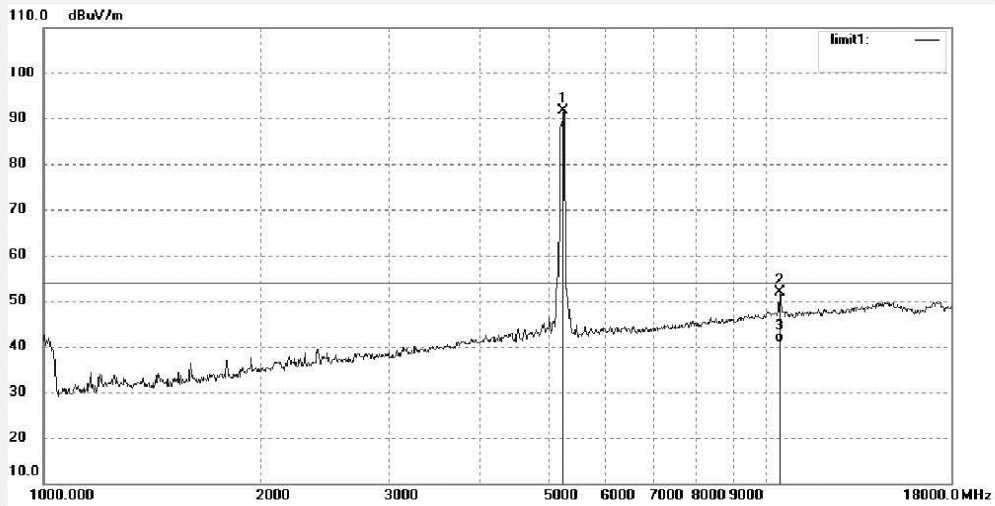
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Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: lenovo #301	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2015/02/08
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11ac VHT80



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5210.000	90.82	0.71	91.53	/	/	peak			
2	10420.322	43.12	8.81	51.93	74.00	-22.07	peak			
3	10420.322	31.98	8.81	40.79	54.00	-13.21	AVG			

Produkte
 Products



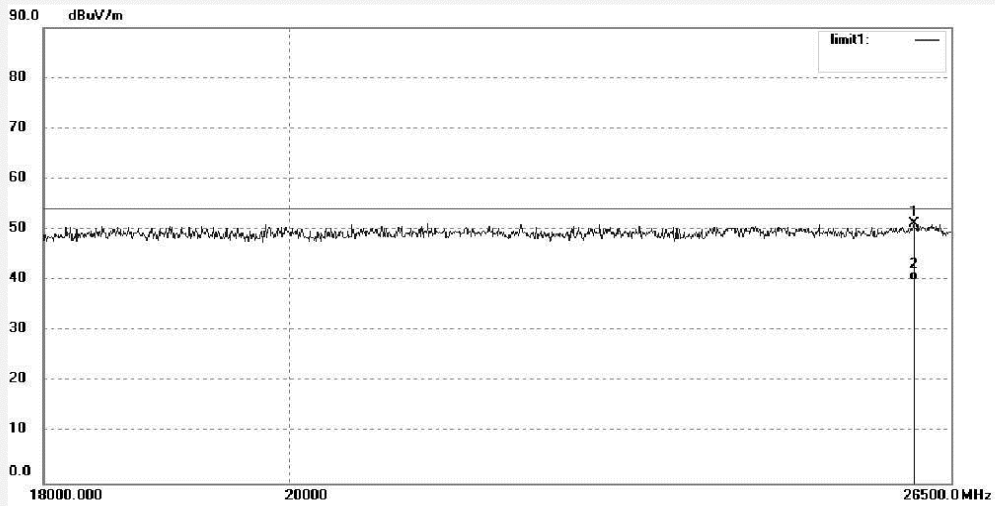
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Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: lenovo #1137	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11ac VHT80



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26082.257	33.93	17.18	51.11	74.00	-22.89	peak			
2	26082.257	22.86	17.18	40.04	54.00	-13.96	AVG			

Produkte
 Products



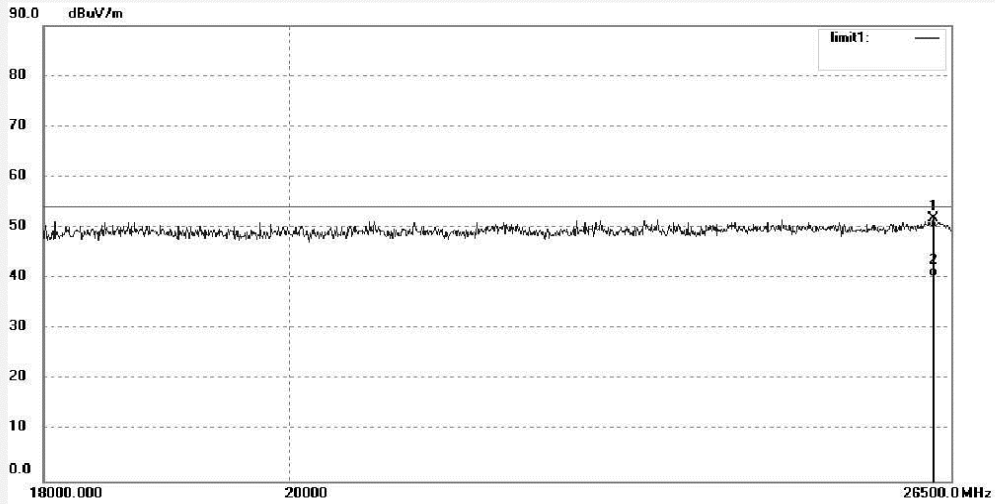
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Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: lenovo #1138	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/28/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11ac VHT80



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26305.586	34.86	17.03	51.89	74.00	-22.11	peak			
2	26305.586	23.45	17.03	40.48	54.00	-13.52	AVG			

EMI Sweep(1)

1 / 1

Radiated Emission

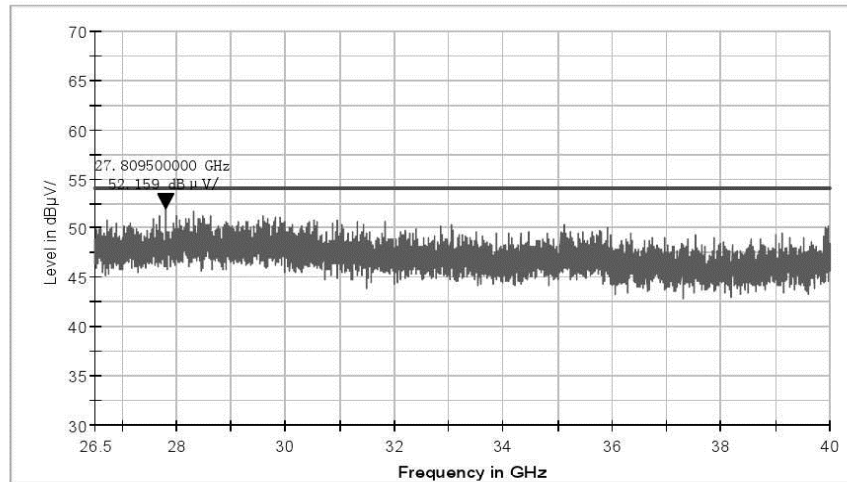
EUT Information

EUT Model Name:	ThinkPad Stack Wireless Access Point M/N:R123
Operation mode:	TX 5210MHz
Test Voltage:	AC 120V/60Hz
Comment:	802.11ac VHT80

Common Information

Test Site:	SMQ EMC Lab.
Environment Conditions:	
Antenna Polarization:	Horizontal
Operator Name:	
Comment:	

Copy of FCC Electric Field Strength 26.5-40GHz



EMI Sweep(1)

1 / 1

Radiated Emission

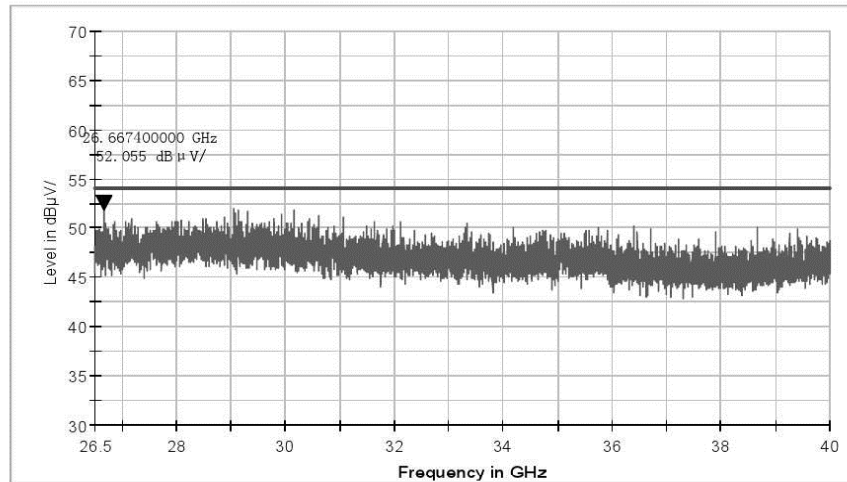
EUT Information

EUT Model Name:	ThinkPad Stack Wireless Access Point M/N:R123
Operation mode:	TX 5210MHz
Test Voltage:	AC 120V/60Hz
Comment:	802.11ac VHT80

Common Information

Test Site:	SMQ EMC Lab.
Environment Conditions:	
Antenna Polarization:	Vertical
Operator Name:	
Comment:	

Copy of FCC Electric Field Strength 26.5-40GHz



Produkte
 Products

Appendix B.2: Unwanted Emissions - In the Restricted Bands
 802.11a
 CH36



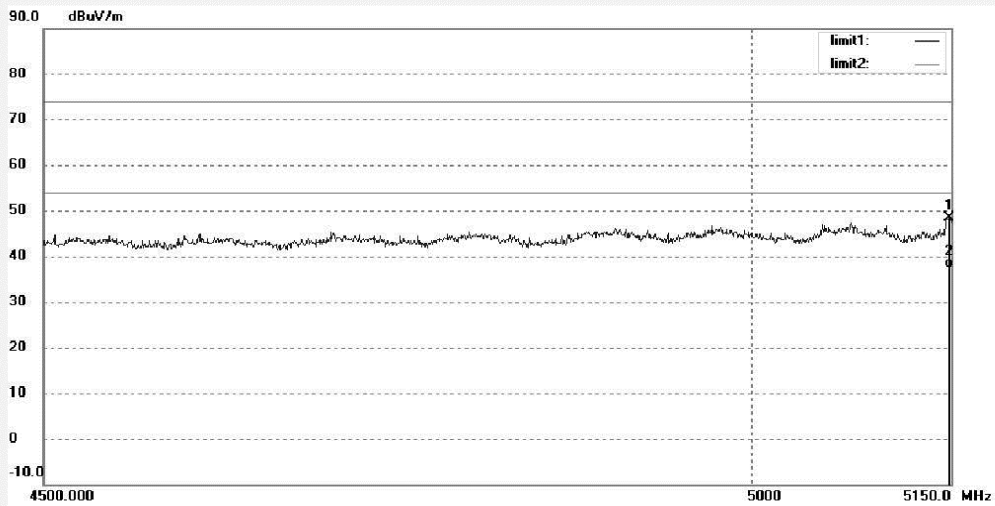
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 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: lenovo #544	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5180MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11a



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5148.700	47.91	0.51	48.42	74.00	-25.58	peak			
2	5148.700	36.79	0.51	37.30	54.00	-16.70	AVG			

Produkte
 Products



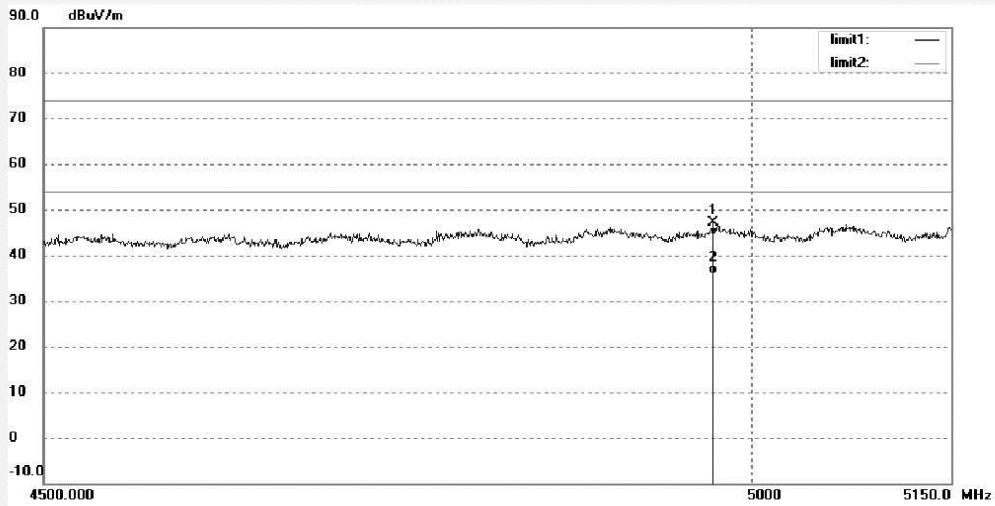
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 Fax:+86-0755-26503396

Job No.: lenovo #545	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5180MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11a



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4971.250	46.44	0.57	47.01	74.00	-26.99	peak			
2	4971.250	35.42	0.57	35.99	54.00	-18.01	AVG			

Produkte
 Products



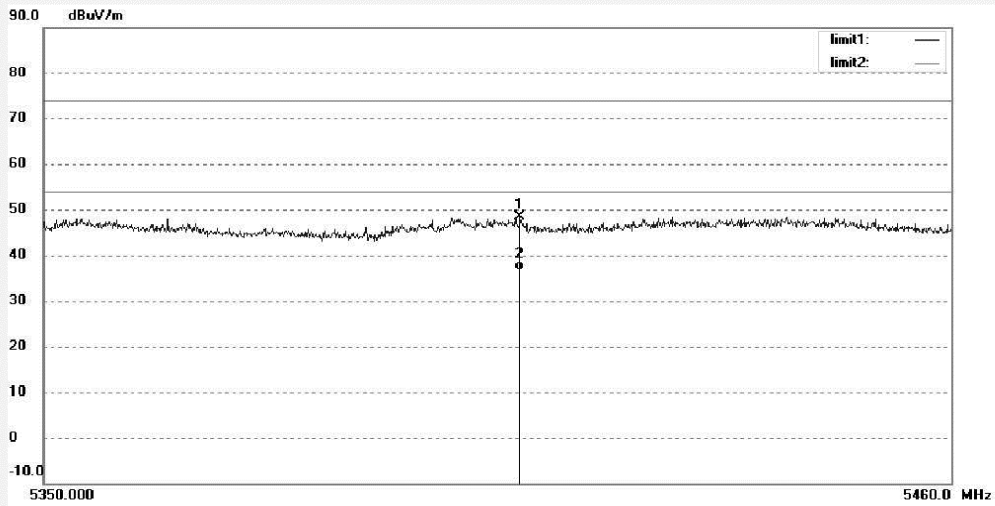
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Site: 2# Chamber
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 Fax:+86-0755-26503396

Job No.: lenovo #546	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5240MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11a



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5407.530	47.67	0.70	48.37	74.00	-25.63	peak			
2	5407.530	35.99	0.70	36.69	54.00	-17.31	AVG			

Produkte
 Products



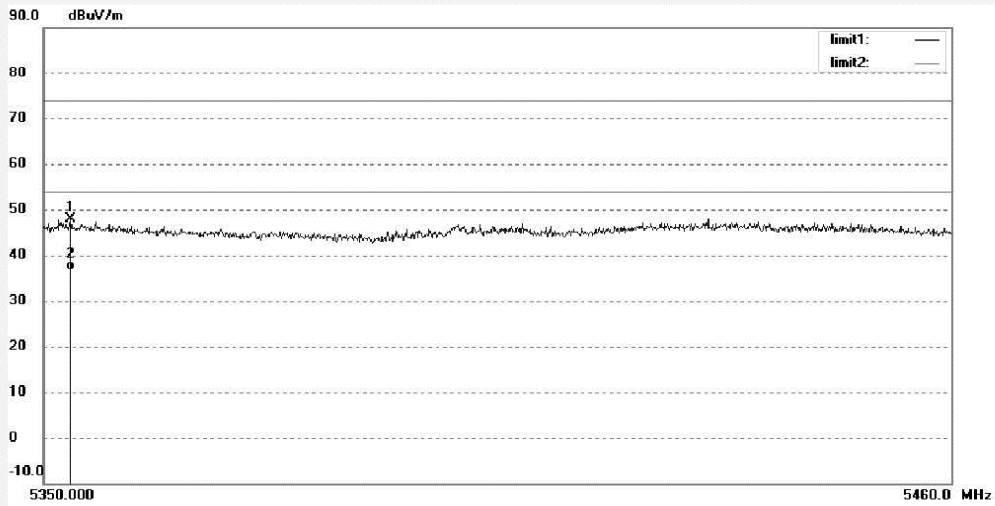
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Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: lenovo #547	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5240MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11a



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5353.300	46.94	0.82	47.76	74.00	-26.24	peak			
2	5353.300	35.77	0.82	36.59	54.00	-17.41	AVG			

Produkte
 Products

802.11n HT20
 CH36



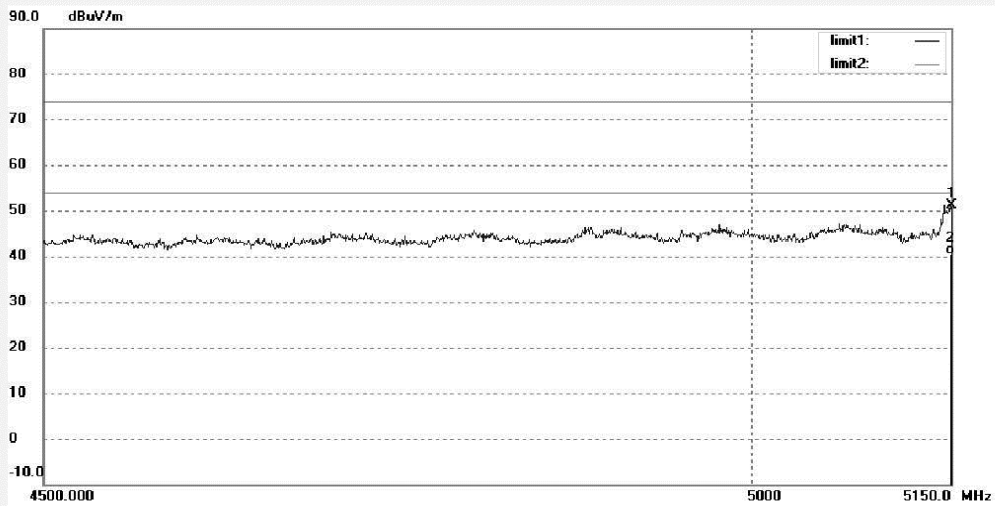
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #548	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5180MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5150.000	50.69	0.51	51.20	74.00	-22.80	peak			
2	5150.000	39.78	0.51	40.29	54.00	-13.71	AVG			

Produkte
 Products



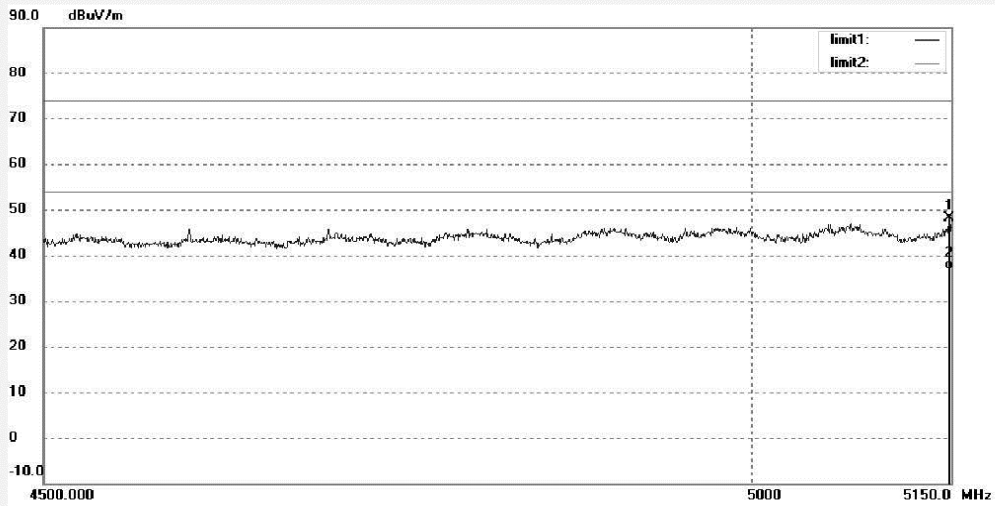
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Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: lenovo #549	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5180MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5148.700	47.58	0.51	48.09	74.00	-25.91	peak			
2	5148.700	36.33	0.51	36.84	54.00	-17.16	AVG			

Produkte
 Products



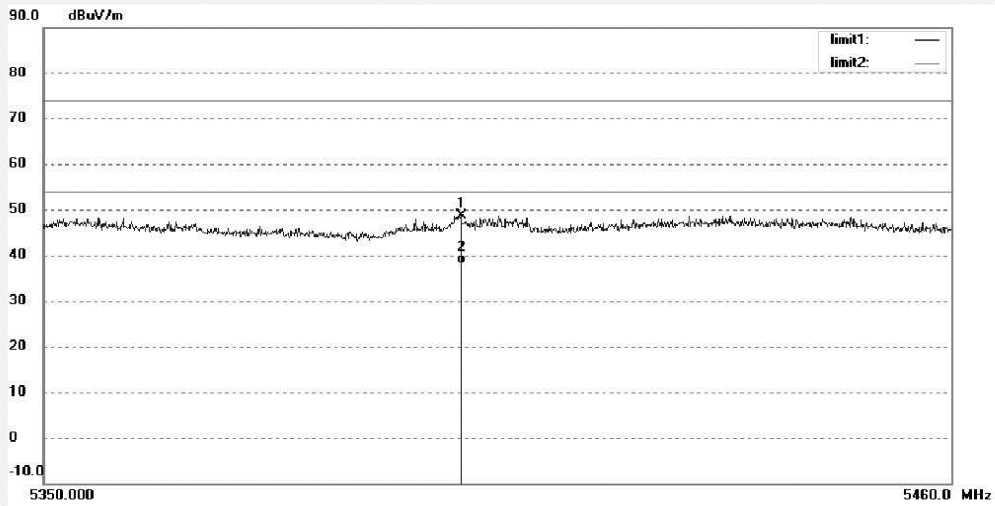
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 Fax:+86-0755-26503396

Job No.: lenovo #550	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5240MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5400.380	48.03	0.66	48.69	74.00	-25.31	peak			
2	5400.380	37.59	0.66	38.25	54.00	-15.75	AVG			

Produkte
 Products



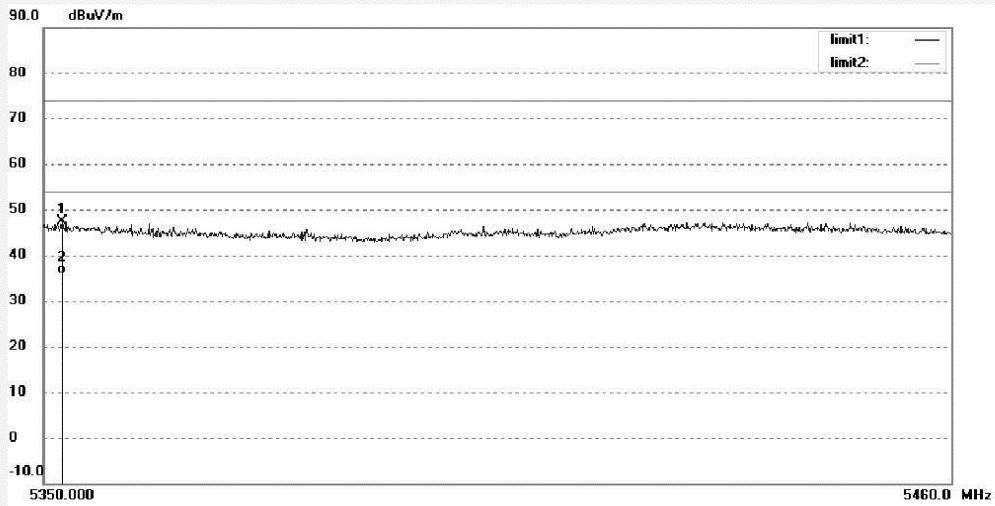
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Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: lenovo #551	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5240MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT20



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5352.200	46.51	0.83	47.34	74.00	-26.66	peak			
2	5352.200	35.05	0.83	35.88	54.00	-18.12	AVG			

Produkte
 Products

802.11n HT40
 CH38



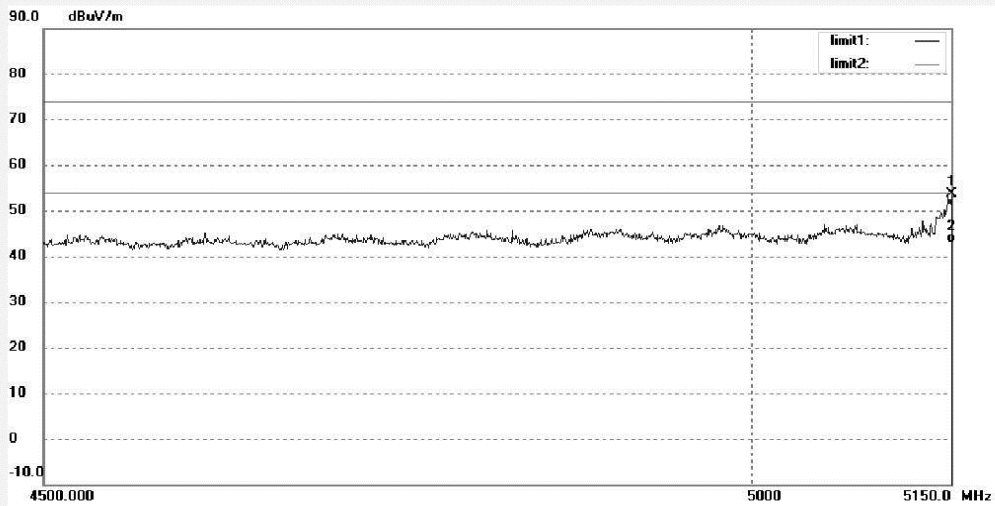
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Site: 2# Chamber
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 Fax:+86-0755-26503396

Job No.: lenovo #552	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5190MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5150.000	53.16	0.51	53.67	74.00	-20.33	peak			
2	5150.000	42.43	0.51	42.94	54.00	-11.06	AVG			

Produkte
 Products



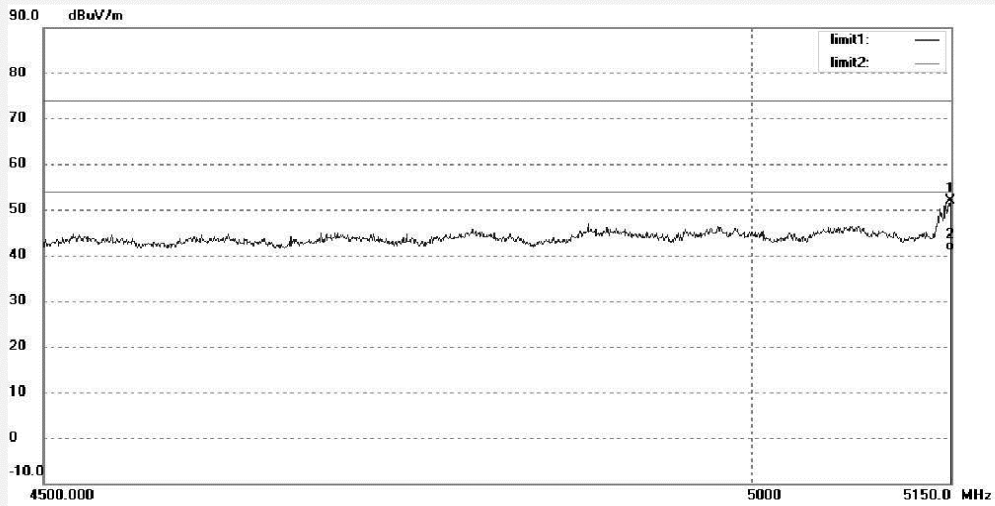
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #553	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5190MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5149.350	51.37	0.51	51.88	74.00	-22.12	peak			
2	5149.350	40.25	0.51	40.76	54.00	-13.24	AVG			

Produkte
 Products



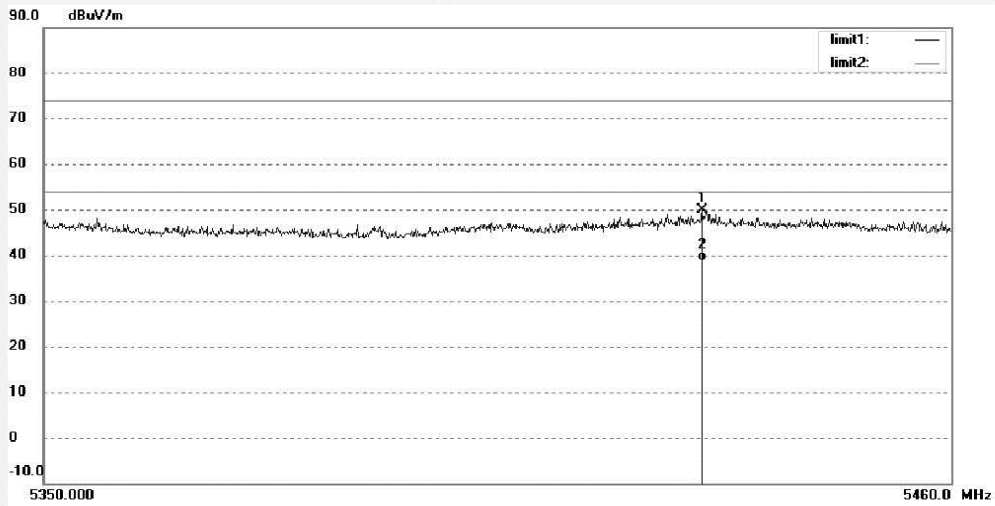
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #554	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5230MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5429.640	49.05	0.82	49.87	74.00	-24.13	peak			
2	5429.640	37.89	0.82	38.71	54.00	-15.29	AVG			

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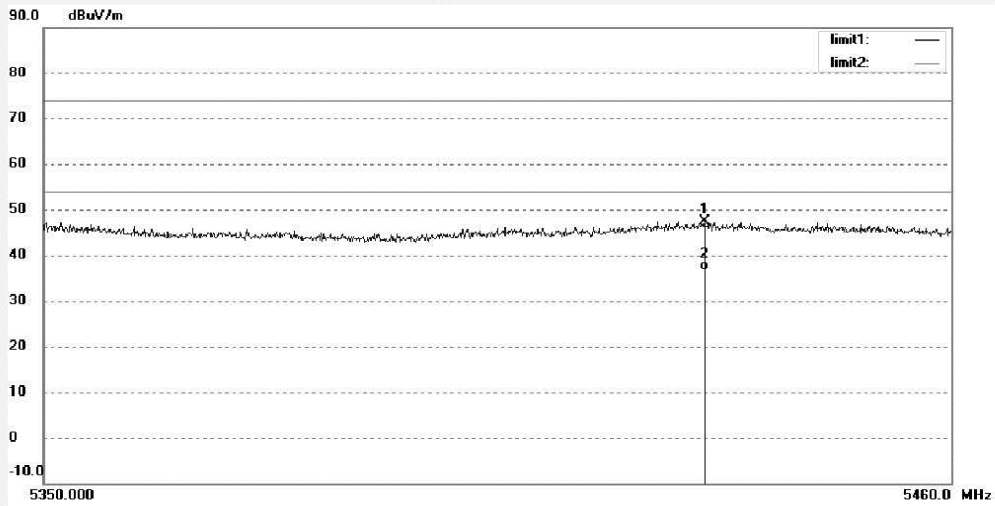
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #555	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5230MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11n HT40



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5429.860	46.65	0.82	47.47	74.00	-26.53	peak			
2	5429.860	35.74	0.82	36.56	54.00	-17.44	AVG			

Produkte
 Products

802.11ac VHT80
 CH42



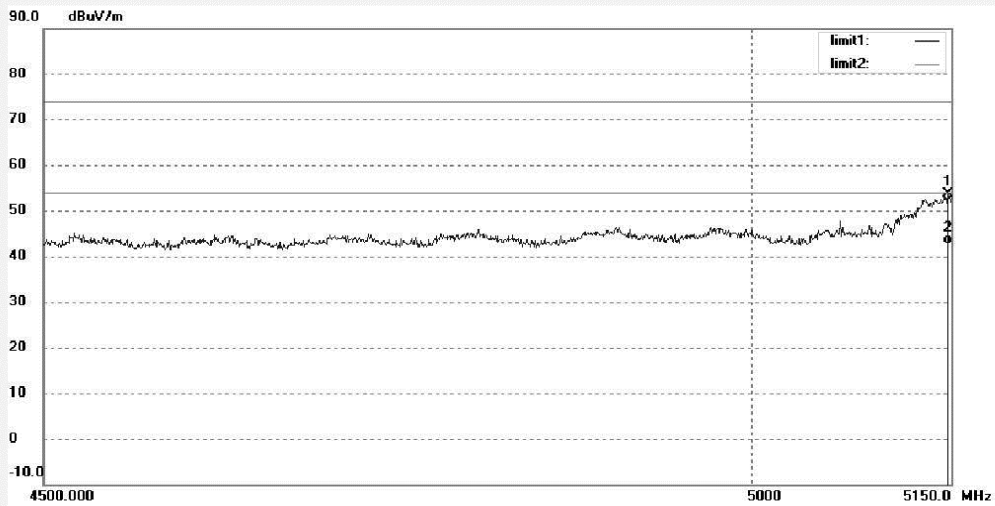
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Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: lenovo #556	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11ac VHT80



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5147.400	53.16	0.50	53.66	74.00	-20.34	peak			
2	5147.400	42.05	0.50	42.55	54.00	-11.45	AVG			

Produkte
 Products



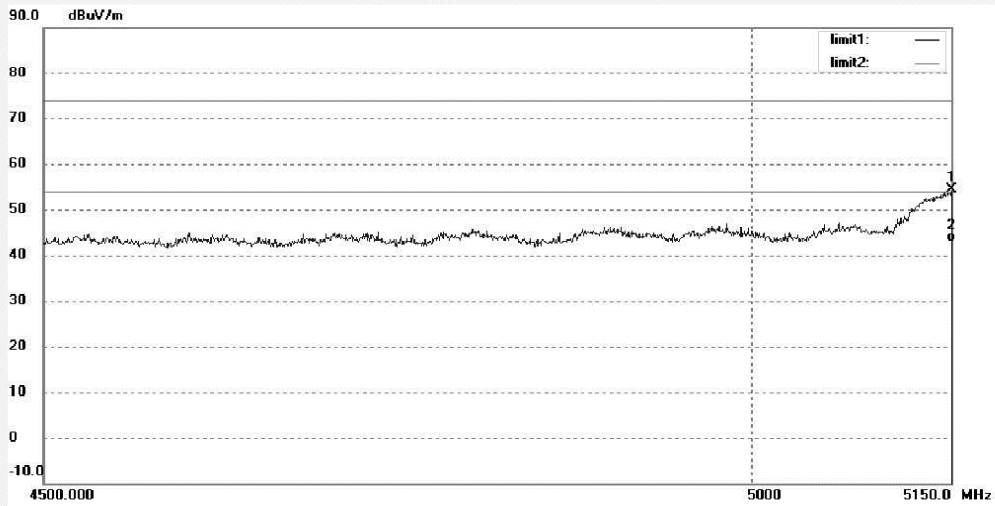
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #557	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11ac VHT80



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5150.000	53.77	0.51	54.28	74.00	-19.72	peak			
2	5150.000	42.47	0.51	42.98	54.00	-11.02	AVG			

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 Products



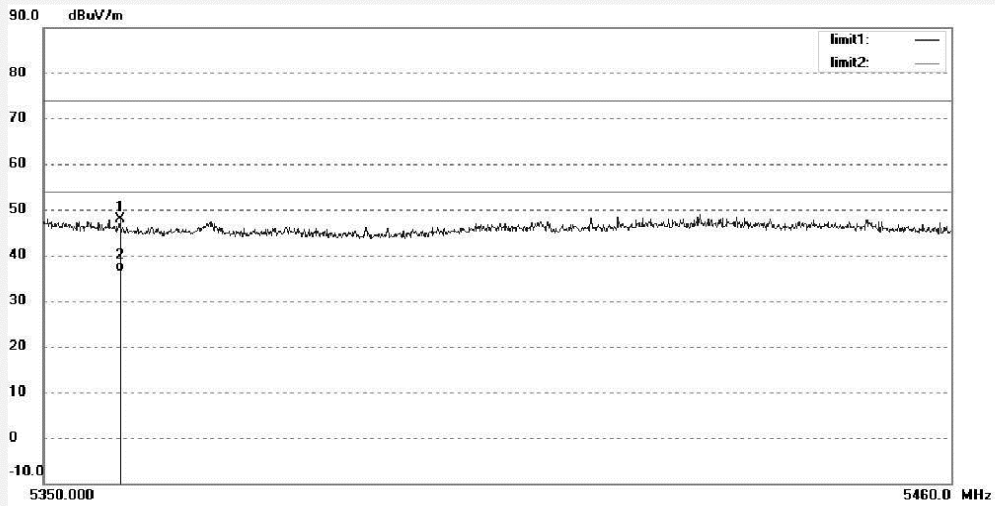
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Site: 2# Chamber
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 Fax:+86-0755-26503396

Job No.: lenovo #558	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11ac VHT80



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5359.240	47.01	0.80	47.81	74.00	-26.19	peak			
2	5359.240	35.46	0.80	36.26	54.00	-17.74	AVG			

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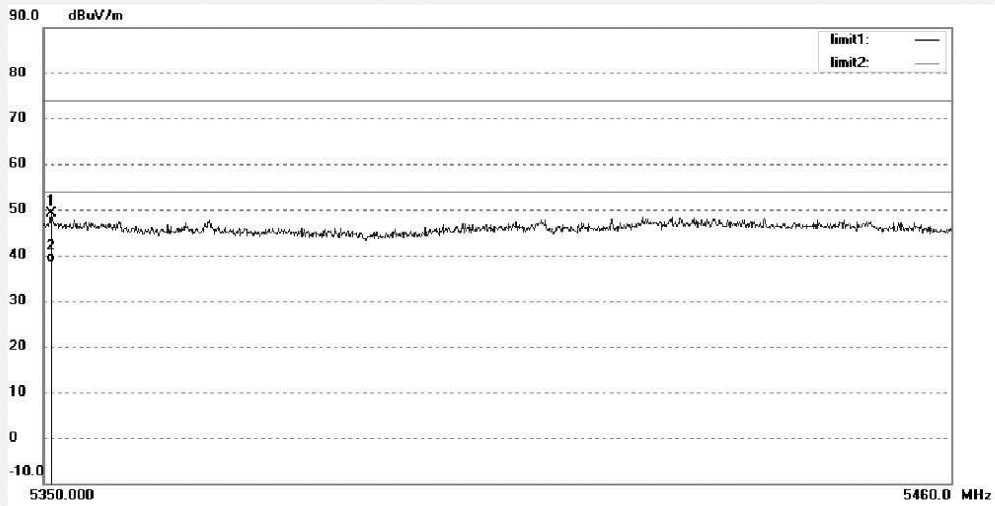
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: lenovo #559	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/04/18/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ThinkPad Stack Wireless Access Point	Engineer Signature:
Mode: TX 5210MHz	Distance: 3m
Model: R123	
Manufacturer: Lenovo	

Note: 802.11ac VHT80



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5350.880	48.28	0.84	49.12	74.00	-24.88	peak			
2	5350.880	37.52	0.84	38.36	54.00	-15.64	AVG			

Appendix C

Test Results of Unwanted Emissions for U-NII-3 band

APPENDIX C.1: UNWANTED EMISSIONS - OUTSIDE OF THE RESTRICTED BANDS.....	2
802.11A_1TX	2
CH149.....	2
CH157.....	13
CH165.....	24
802.11N HT20	35
CH149.....	35
CH157.....	46
CH165.....	57
802.11N HT40	68
CH151.....	68
CH159.....	79
802.11AC VHT80.....	90
CH155.....	90
APPENDIX C.2: UNWANTED EMISSIONS - IN THE RESTRICTED BANDS.....	101
802.11A	101
CH149.....	101
CH165.....	103
802.11N HT20	105
CH149.....	105
CH165.....	107
802.11N HT40	109
CH151.....	109
CH159.....	111
802.11AC VHT80.....	113
CH155.....	113

Appendix C.1: Unwanted Emissions - Outside of the Restricted Bands
802.11a_1TX
CH149

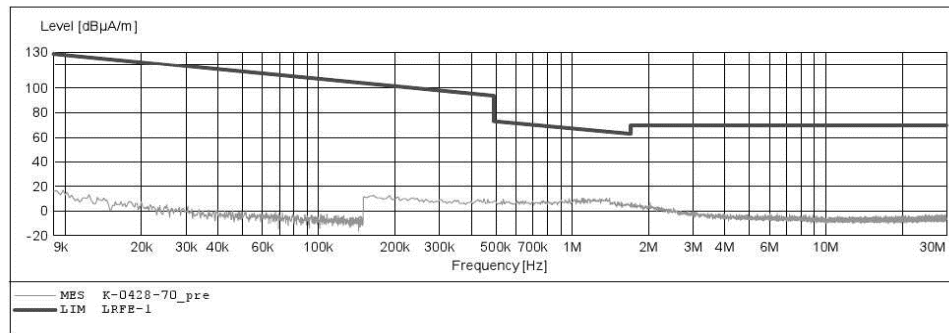
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: ThinkPad Stack Wireless Access Point M/N:R123
Manufacturer: Lenovo
Operating Condition: TX 5745MHz
Test Site: 2# Chamber
Operator: LAN
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2015-5-4 /

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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ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: ThinkPad Stack Wireless Access Point M/N:R123
 Manufacturer: Lenovo
 Operating Condition: TX 5745MHz
 Test Site: 2# Chamber
 Operator: LAN
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2015-5-4 /

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

