

Report No.: SUZR/2021/C002405

Rev.: 01

Page: 1 of 22

TEST REPORT

Application No: ZR/2021/C0024
Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer: Lenovo PC HK Limited
Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
EUT Description: Portable Tablet Computer
Model No.: TB125FU
Trade Mark: Lenovo
FCC ID: O57TB125FU
Standard(s): FCC CFR Title 47 Part 15 Subpart B, ANSI C63.4:2014
Date of Receipt: 2021/12/29
Date of Test: 2021/12/30 to 2022/1/16
Date of Issue: 2022/1/26

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Panta Sun

Wireless Laboratory Manager



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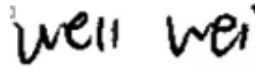
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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2022/1/26		Original

Prepared By		 <hr/> (Weller Liu) / Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



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Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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1 General Information

EUT Description:	Portable Tablet Computer		
Model No.:	TB125FU		
Trade Mark:	Lenovo		
Hardware Version:	Lenovo TB125FU		
Software Version:	TB125FU_RF01_220125		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	FM	88~108	
	GNSS(GPS+Glonass + Beidou+Galileo)	1559~1610	

Accessory:

Item No.	Model No.	Specification	Manufacturer	Remark
Adapter 1	MC-101	5V,2A	Salcomp	US
Adapter 2	MC-101	5V,2A	Chenyang	
USB cable 1	SWT-A113A	5V,3A	saibao	/
USB cable 2	1.1.0150	5V,3A	naee	/
Battery 1	L20D2P32	7500mAh	SCUD	/
Battery 2	L20D2P32	7500mAh	SWD	/
Lenovo Precision Pen 2	Lenovo LP-151	/	Lenovo	
Lenovo Active Pen 3	Lenovo LP-251	/	Lenovo	

Remark:

1. According to the client's difference statement, there are six types of EUT, the sample 1 was used for full test and sample 2/3/4/5/6 to verify the worst case.
2. All the above configuration was tested, but only showed the worst case in this report.



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05

1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Weller Liu, King-p Li, Nature Shen, Tizy Song

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number:717327

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None



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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: 150kHz to 30MHz
 Limit:
 0.15M-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
 0.5M-5MHz 56dB(μV) quasi-peak, 46dB(μV) average
 5M-30MHz 60dB(μV) quasi-peak, 50dB(μV) average
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22~23°C Humidity: 44~46% RH Atmospheric Pressure: 101.0 KPa

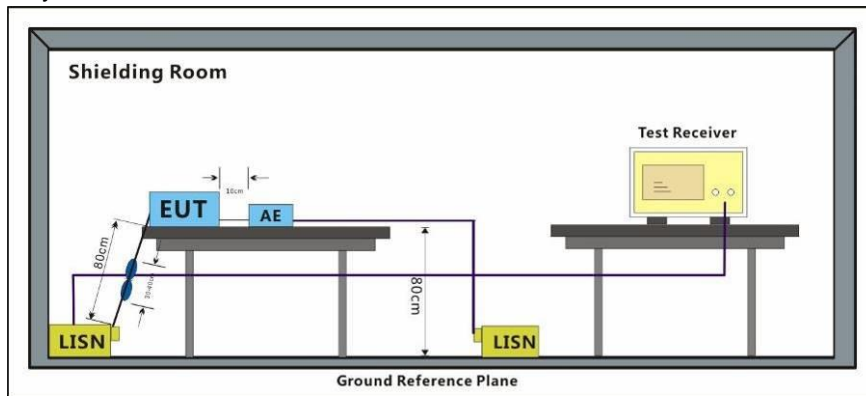
- Pretest these modes to find the worst case:
- 1: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+2.4GWLAN +earphone+Camera(Rear)
 - 2: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Front)
 - 3: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+2.4GWLAN +earphone+MP4
 - 4: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+GPS RX
 - 5: Sample 1+adapter(1)+usb Cable(1)+Pen(2)+BT+2.4GWLAN +earphone+MP4
 - 6: Sample 1+adapter(1)+usb Cable(2)+Pen(1)+BT+5GWLAN +earphone+MP4
 - 7: Sample 1+adapter(2)+usb Cable(1)+Pen(1)+BT+2.4GWLAN +earphone+MP4
 - 8: Sample 1+Transfer data between the EUT and the PC+USB cable1
 - 9: Sample 2+Transfer data between the EUT and the PC+USB cable1
 - 10: Sample 3+Transfer data between the EUT and the PC+USB cable1
 - 11: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+MP4
 - 12: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)
 - 13: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Front)
 - 14: Sample 5+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)
 - 15: Sample 6+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)

The worst case for final test: 12: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)



2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



2.1.3 Measurement Data

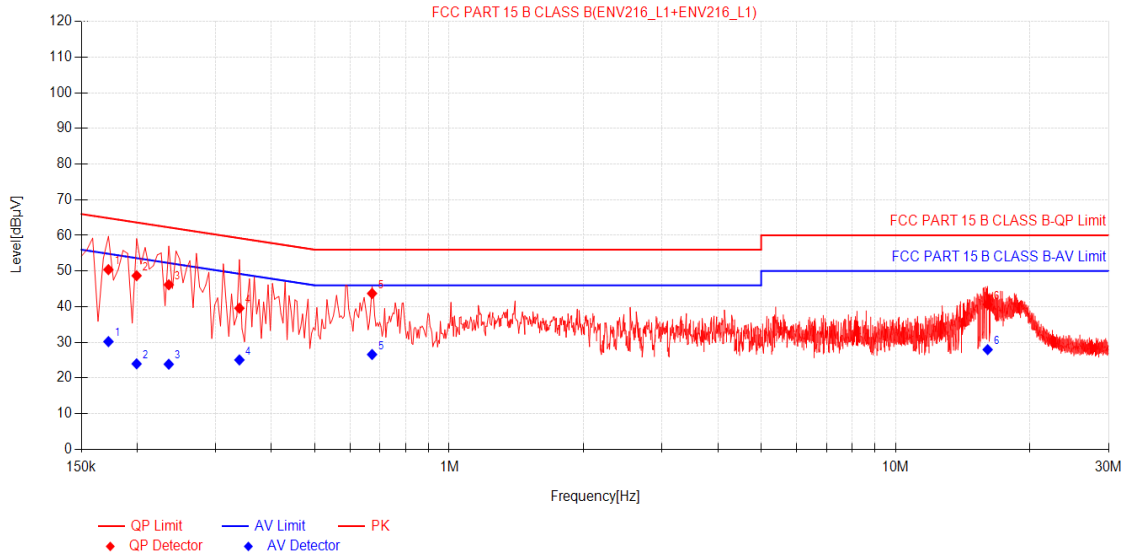
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:12; Line:Live Line



Final Data List

NO	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin	Verdict
1	0.1725	10.73	50.40	64.84	14.44	30.21	54.84	24.63	PASS
2	0.1995	10.82	48.69	63.63	14.94	23.98	53.63	29.65	PASS
3	0.2355	10.81	46.16	62.25	16.09	23.86	52.25	28.39	PASS
4	0.3390	10.53	39.58	59.23	19.65	25.07	49.23	24.16	PASS
5	0.6720	10.57	43.71	56.00	12.29	26.59	46.00	19.41	PASS
6	16.0800	10.50	40.61	60.00	19.39	27.97	50.00	22.03	PASS



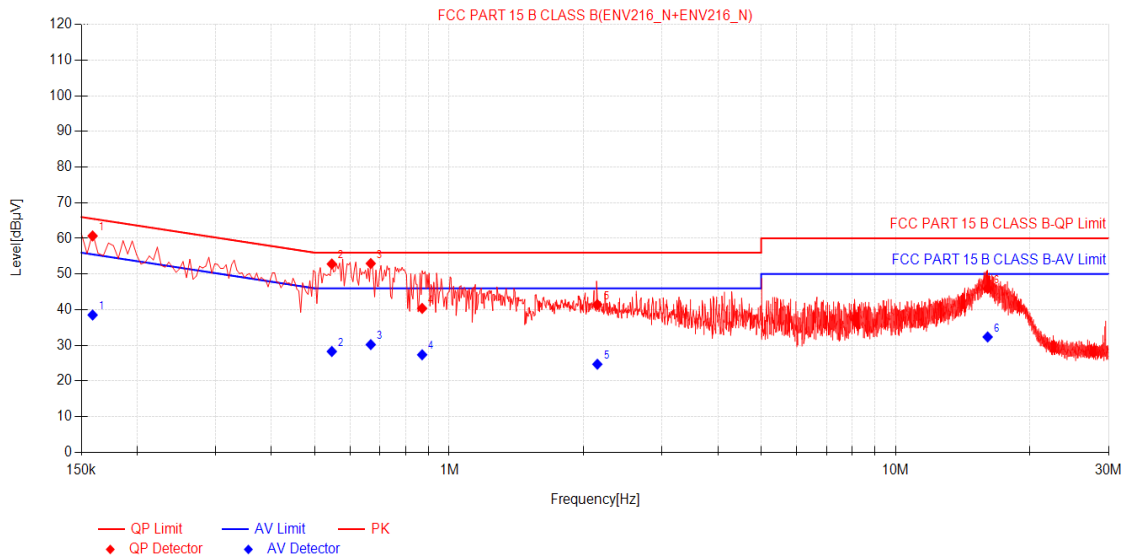
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Mode:12; Line:Neutral Line



Final Data List									
NO	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin	Verdict
1	0.1590	10.72	60.69	65.52	4.83	38.51	55.52	17.01	PASS
2	0.5460	10.75	52.82	56.00	3.18	28.28	46.00	17.72	PASS
3	0.6675	10.78	52.97	56.00	3.03	30.21	46.00	15.79	PASS
4	0.8700	10.79	40.37	56.00	15.63	27.36	46.00	18.64	PASS
5	2.1480	10.78	41.45	56.00	14.55	24.71	46.00	21.29	PASS
6	16.0800	10.56	45.93	60.00	14.07	32.36	50.00	17.64	PASS



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2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: 30MHz to 1GHz
 Measurement Distance: 3m
 Limit:
 30MHz -88MHz 40.0(dBμV/m) quasi-peak
 88MHz-216MHz 43.5(dBμV/m) quasi-peak
 216MHz-960MHz 46.0(dBμV/m) quasi-peak
 960MHz-1000MHz 54.0(dBμV/m) quasi-peak
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22~23°C Humidity: 44~46% RH Atmospheric Pressure:101.0 KPa

- Pretest these modes to find the worst case:
- 1: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+2.4GWLAN +earphone+Camera(Rear)
 - 2: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Front)
 - 3: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+2.4GWLAN +earphone+MP4
 - 4: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+GPS RX
 - 5: Sample 1+adapter(1)+usb Cable(1)+Pen(2)+BT+2.4GWLAN +earphone+MP4
 - 6: Sample 1+adapter(1)+usb Cable(2)+Pen(1)+BT+5GWLAN +earphone+MP4
 - 7: Sample 1+adapter(2)+usb Cable(1)+Pen(1)+BT+2.4GWLAN +earphone+MP4
 - 8: Sample 1+Transfer data between the EUT and the PC+USB cable1
 - 9: Sample 2+Transfer data between the EUT and the PC+USB cable1
 - 10: Sample 3+Transfer data between the EUT and the PC+USB cable1
 - 11: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+MP4
 - 12: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)
 - 13: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Front)
 - 14: Sample 5+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)
 - 15: Sample 6+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)

The worst case for final test: 8: Sample 1+Transfer data between the EUT and the PC+USB cable1

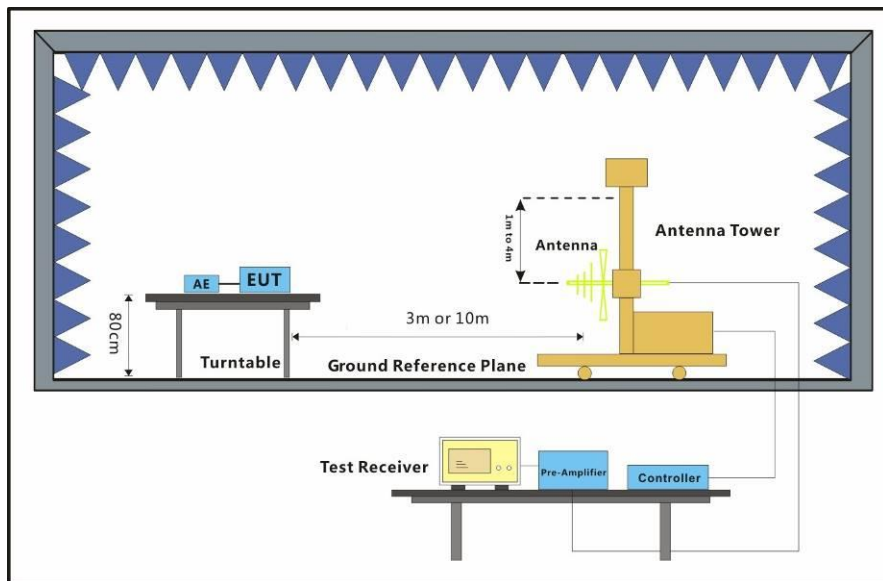


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2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.

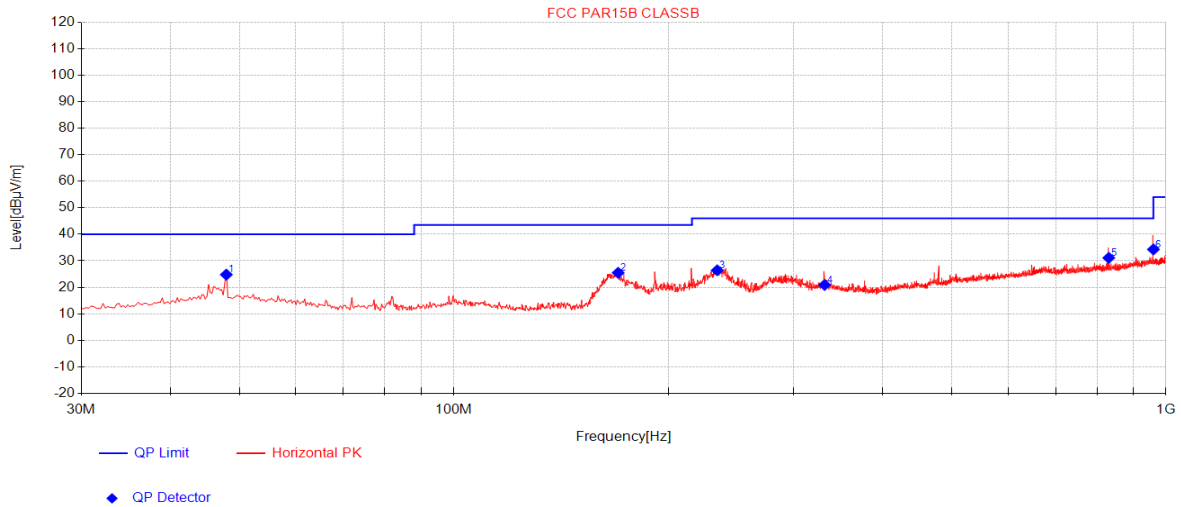


2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



Mode:8; Polarization:Horizontal



Final Data List									
NO.	Freq. [MHz]	QP Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.945	39.28	-14.51	24.77	40.00	15.23	163	23	Horizontal
2	170.165	44.03	-18.56	25.47	43.50	18.03	215	313	Horizontal
3	234.4275	41.03	-14.61	26.42	46.00	19.58	294	357	Horizontal
4	331.67	32.62	-11.74	20.88	46.00	25.12	185	307	Horizontal
5	831.22	33.52	-2.42	31.10	46.00	14.90	201	268	Horizontal
6	960.23	34.62	-0.35	34.27	54.00	19.73	100	63	Horizontal

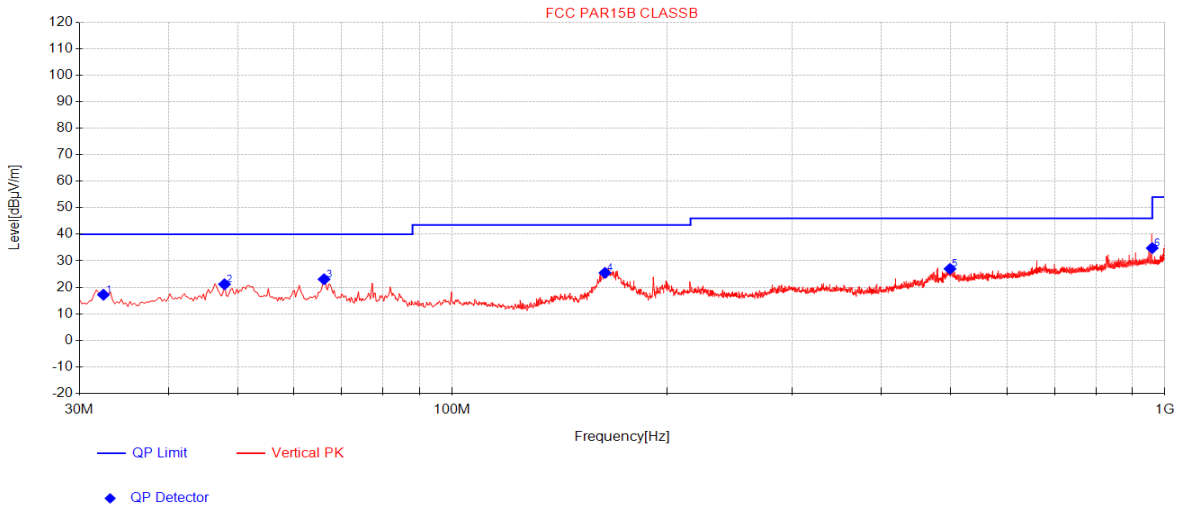


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Mode:8; Polarization:Vertical



Final Data List									
NO.	Freq. [MHz]	QP Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.425	35.15	-17.96	17.19	40.00	22.81	152	107	Vertical
2	47.945	35.65	-14.51	21.14	40.00	18.86	146	249	Vertical
3	66.1325	40.98	-17.95	23.03	40.00	16.97	246	353	Vertical
4	163.86	44.26	-18.81	25.45	43.50	18.05	214	249	Vertical
5	499.48	34.68	-7.73	26.95	46.00	19.05	105	352	Vertical
6	959.9875	35.12	-0.35	34.77	46.00	11.23	185	34	Vertical



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2.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 40000MHz

2.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22~23°C Humidity: 44~46% RH Atmospheric Pressure: 101.0 KPa

Pretest these modes to find the worst case: 1: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+2.4GWLAN +earphone+Camera(Rear)

2: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Front)

3: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+2.4GWLAN +earphone+MP4

4: Sample 1+adapter(1)+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+GPS RX

5: Sample 1+adapter(1)+usb Cable(1)+Pen(2)+BT+2.4GWLAN +earphone+MP4

6: Sample 1+adapter(1)+usb Cable(2)+Pen(1)+BT+5GWLAN +earphone+MP4

7: Sample 1+adapter(2)+usb Cable(1)+Pen(1)+BT+2.4GWLAN +earphone+MP4

8: Sample 1+Transfer data between the EUT and the PC+USB cable 1

9: Sample 2+Transfer data between the EUT and the PC+USB cable 1

10: Sample 3+Transfer data between the EUT and the PC+USB cable 1

11: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+MP4

12: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)

13: Sample 4+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Front)

14: Sample 5+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)

15: Sample 6+usb Cable(1)+Pen(1)+BT+5GWLAN +earphone+Camera(Rear)

The worst case for final test: 8: Sample 1+Transfer data between the EUT and the PC+USB cable 1



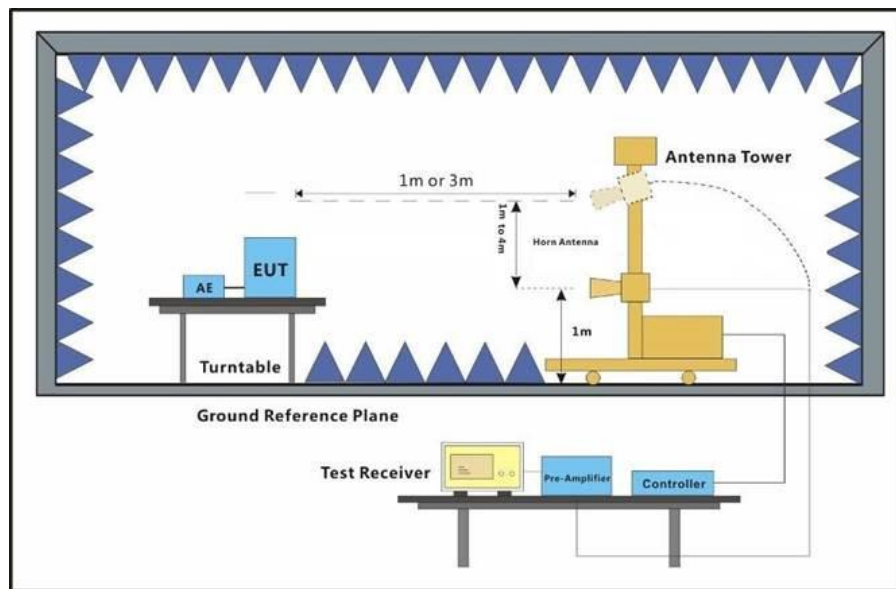
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2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.



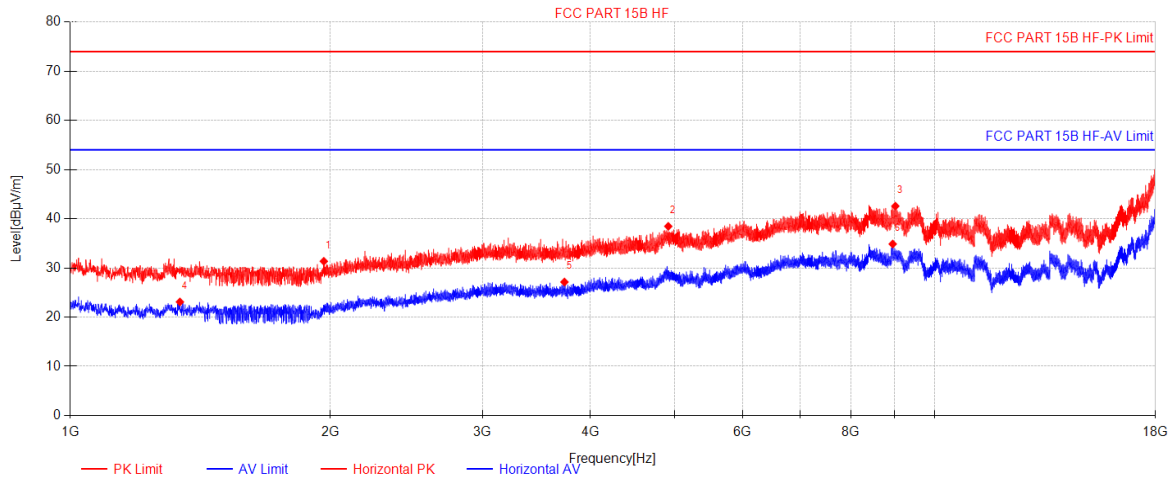
2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed. Scan from 1GHz to 30GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed.



Mode:8; Polarization:Horizontal



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1965.5	52.87	31.35	-21.52	74.00	42.65	269	195	Horizontal
2	4921	51.43	38.46	-12.97	74.00	35.54	185	305	Horizontal
3	9012	45.45	42.57	-2.88	74.00	31.43	230	26	Horizontal
4	1339.5	45.56	23.09	-22.47	54.00	30.91	196	110	Horizontal
5	3731.5	43.21	27.14	-16.07	54.00	26.86	147	7	Horizontal
6	8948.5	37.93	34.87	-3.06	54.00	19.13	222	54	Horizontal

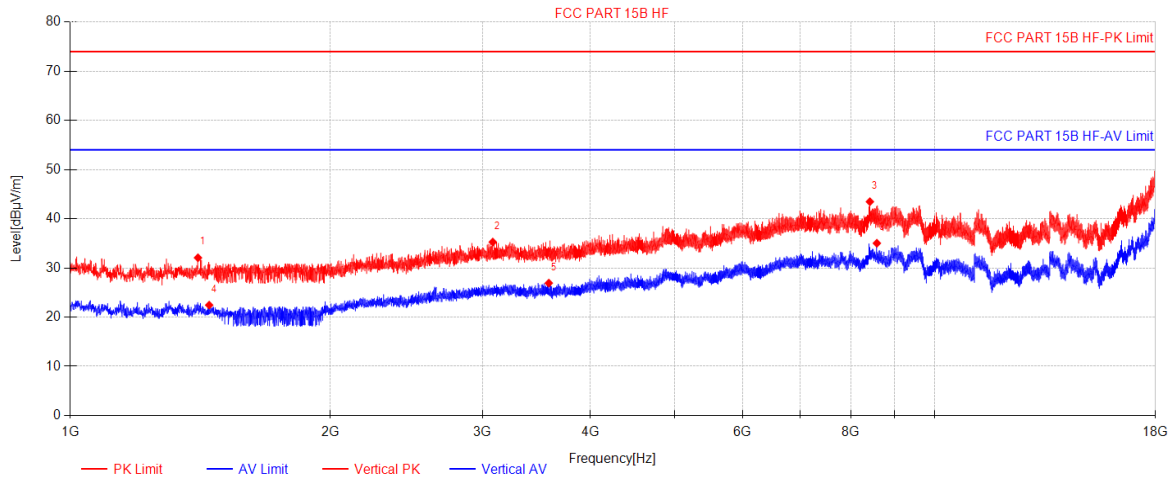


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Mode:8; Polarization:Vertical



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1405.5	54.48	32.07	-22.41	74.00	41.93	175	251	Vertical
2	3083	52.48	35.26	-17.22	74.00	38.74	263	251	Vertical
3	8420.5	47.78	43.47	-4.31	74.00	30.53	196	82	Vertical
4	1448	45.04	22.44	-22.60	54.00	31.56	145	4	Vertical
5	3579	43.71	26.92	-16.79	54.00	27.08	222	360	Vertical
6	8579	38.68	35.03	-3.65	54.00	18.97	185	360	Vertical



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3 Equipment List

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS32-CE V4.0.02	SUWI-02-09-05	NCR	NCR



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RE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.90dB (150kHz to 30MHz)
2	Radiated Emission	± 3.13dB (9kHz to 30MHz)
		± 4.8dB (30MHz to 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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5 Photographs

5.1 Test Setup

Refer to Appendix A.2 15B Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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