

# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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## TEST REPORT

**Application No:** SUCR2505000429AT  
**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:** Stylus Pen  
**Model No.:** AP602U  
**Trade Mark:** Lenovo  
**FCC ID:** O57AP602U  
**Standard(s):** FCC 47 CFR Part 15, Subpart B  
**Date of Receipt:** May 14, 2025  
**Date of Test:** May 19, 2025 to May 20, 2025  
**Date of Issue:** May 23, 2025

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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## Version

<i>Revision Record</i>			
<i>Version</i>	<i>Description</i>	<i>Date</i>	<i>Remark</i>
01	Original	May 23, 2025	/

Authorized for issue by:			
Tested By			
		<hr/> Nature Shen / Project Manager	
Approved By			
		<hr/> Cloud Peng/Technical Manager	



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### 1 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	FCC 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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## 2 General Information

Product Name:	Stylus Pen		
Model No. (EUT):	AP602U		
Trade Mark:	Lenovo		
Hardware Version:	0.1		
Software Version:	1.09		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	Bluetooth	2402~2480	2402~2480
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			

### 2.1 Description of Support Units

Description	Manufacturer	Model No.
USB Cable	Lenovo	MC-101
Adapter	Lenovo	K235-08646-HO
Portable Tablet Computer	Lenovo	TB520FU



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### 2.2 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:	King-p Li

### 2.3 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

### 2.4 Deviation from Standards

None

### 2.5 Abnormalities from Standard Conditions

None

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### 3 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2025/01/25	2026/01/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2025/02/13	2026/02/12
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2025/05/08	2026/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2025/05/08	2026/05/07
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR

RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2023/06/03	2026/06/02
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2025/02/13	2026/02/12
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2024/11/21	2025/11/20
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2025/01/25	2026/01/24
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2024/08/22	2026/08/21
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2025/05/07	2027/05/06
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2025/01/16	2025/01/15
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2025/01/16	2025/01/15
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.

## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30MHz to 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

## 5 Emission Test Results

### 5.1 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		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency Range (MHz)	Limit(dBμV)	
		Quasi-peak	average
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*
	0.5M-5MHz	56	46
	5M-30MHz	60	50
*Decreases with the logarithm of the frequency Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz			

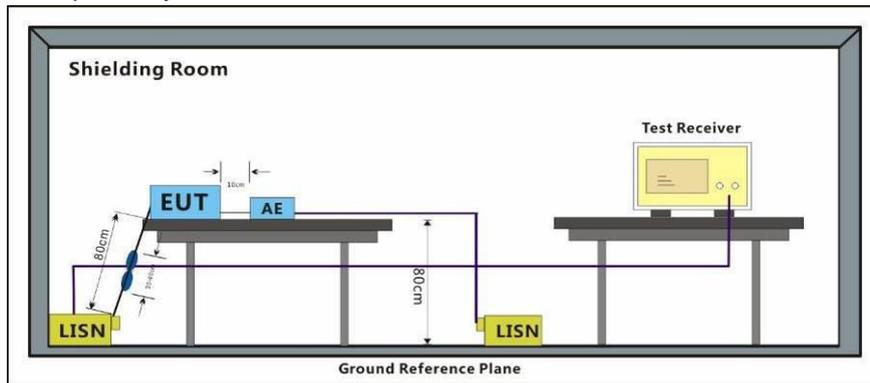
#### 2.1.1 E.U.T. Operation

Operating Environment:

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101kPa
Pretest these modes to find the worst case:	a: Pen charging mode+Tablet+Adapter b: Pen working mode+Tablet+Adapter
The worst case for final test:	a: Pen charging mode+Tablet+Adapter

**2.1.2 Test Setup Procedures**

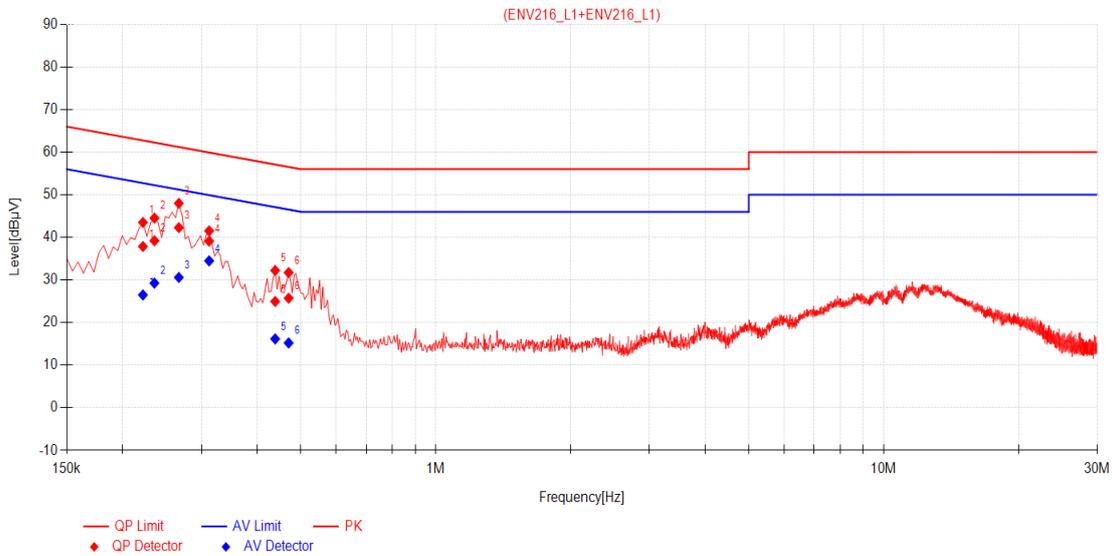
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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.

Final Test Mode:	Mode a	Phase:	Line
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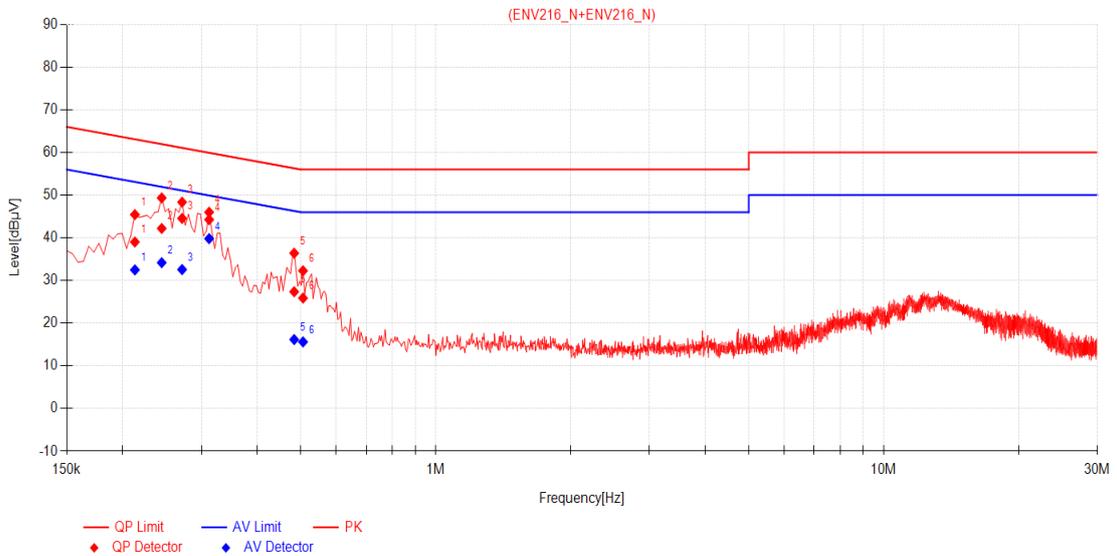


Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2220	10.17	27.70	37.87	62.74	24.87	16.32	26.49	52.74	26.25	Pass
2	0.2355	10.16	29.06	39.22	62.25	23.03	19.11	29.27	52.25	22.98	Pass
3	0.2670	10.15	32.13	42.28	61.21	18.93	20.45	30.60	51.21	20.61	Pass
4	0.3120	10.16	28.96	39.12	59.92	20.80	24.33	34.49	49.92	15.43	Pass
5	0.4380	10.17	14.80	24.97	57.10	32.13	6.01	16.18	47.10	30.92	Pass
6	0.4695	10.17	15.57	25.74	56.52	30.78	5.06	15.23	46.52	31.29	Pass

**Remark:**

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor (Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] - Value[dBµV]

Final Test Mode:	Mode a	Phase:	Neutral
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### Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2130	10.18	28.85	39.03	63.09	24.06	22.31	32.49	53.09	20.60	Pass
2	0.2445	10.16	32.03	42.19	61.94	19.75	24.01	34.17	51.94	17.77	Pass
3	0.2715	10.16	34.38	44.54	61.07	16.53	22.41	32.57	51.07	18.50	Pass
4	0.3120	10.16	34.11	44.27	59.92	15.65	29.65	39.81	49.92	10.11	Pass
5	0.4830	10.16	17.21	27.37	56.29	28.92	6.01	16.17	46.29	30.12	Pass
6	0.5055	10.17	15.71	25.88	56.00	30.12	5.45	15.62	46.00	30.38	Pass

### Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor (Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] - Value[dBµV]



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### 5.2 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:	Frequency Range (MHz)	Limit(dB $\mu$ V/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
960MHz-1000MHz	54.0	Quasi-peak	
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz		

#### 5.2.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46% RH
Atmospheric Pressure:	101kPa
Pretest these modes to find the worst case:	a: Pen charging mode+Tablet+Adapter b: Pen working mode+Tablet+Adapter
The worst case for final test:	b: Pen working mode+Tablet+Adapter

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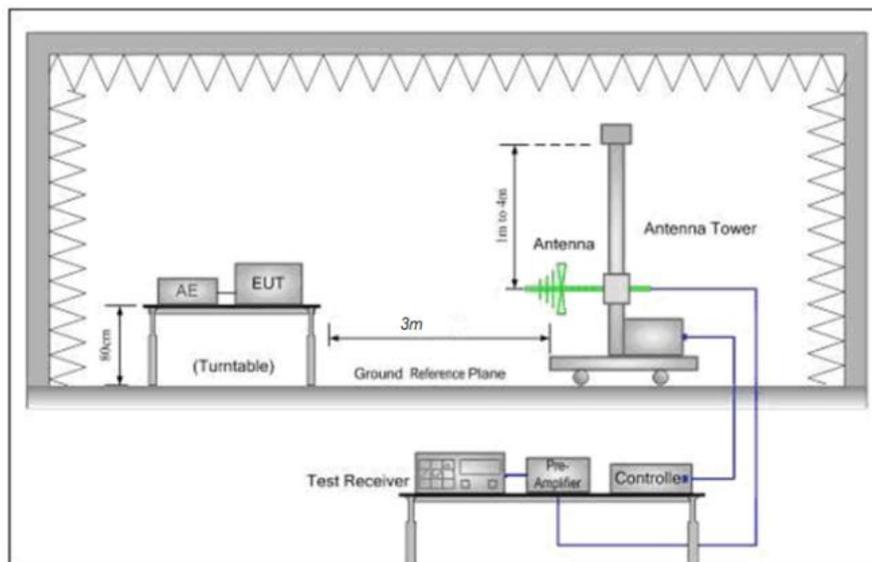
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### 5.2.2 Test Setup Procedures

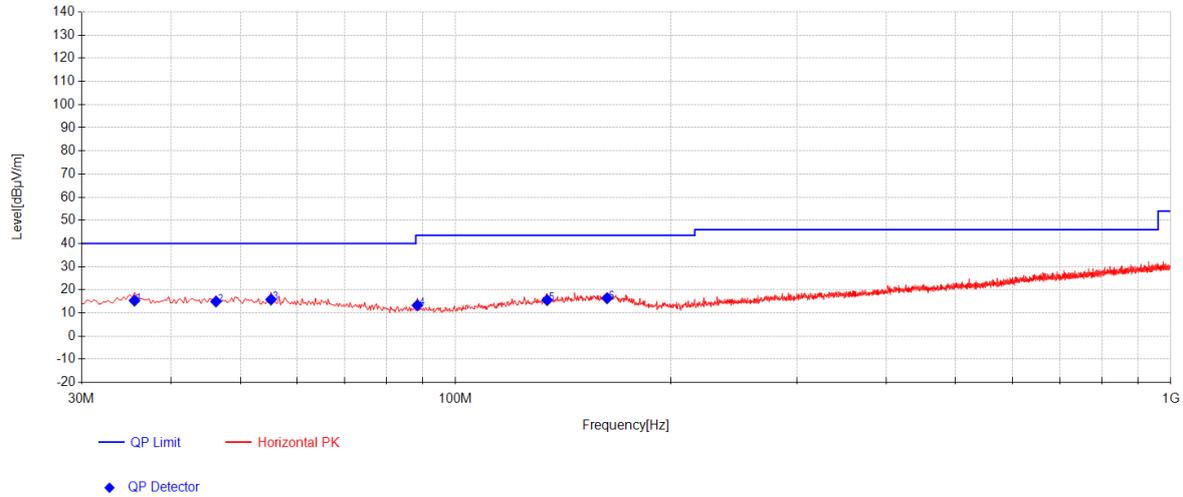
1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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.



### 5.2.3 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.

Final Test Mode:	Mode b	Polarization:	Horizontal
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.5775	31.02	18.26	-33.94	15.34	40.00	24.66	142	10	Horizontal
2	46.2475	29.65	19.05	-33.75	14.95	40.00	25.05	254	141	Horizontal
3	55.22	31.25	18.20	-33.62	15.83	40.00	24.17	174	10	Horizontal
4	88.4425	32.05	14.56	-33.27	13.33	43.50	30.17	185	178	Horizontal
5	134.275	30.11	18.28	-32.81	15.58	43.50	27.92	263	56	Horizontal
6	162.89	30.06	18.83	-32.52	16.38	43.50	27.12	224	163	Horizontal

**Remark:**

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]

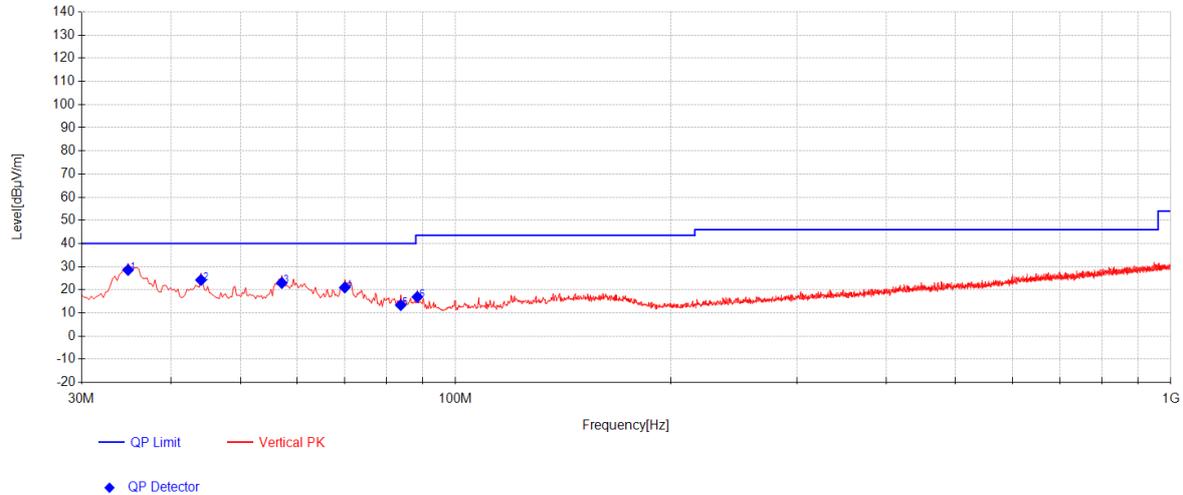
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Final Test Mode:	Mode b	Polarization:	Vertical
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.85	44.32	18.20	-33.95	28.57	40.00	11.43	224	104	Vertical
2	44.065	39.21	18.81	-33.79	24.23	40.00	15.77	265	56	Vertical
3	57.16	38.54	18.04	-33.59	22.98	40.00	17.02	284	41	Vertical
4	70.0125	38.24	16.20	-33.42	21.02	40.00	18.98	175	56	Vertical
5	83.835	32.05	14.67	-33.31	13.41	40.00	26.59	263	160	Vertical
6	88.4425	35.62	14.56	-33.27	16.90	43.50	26.60	225	41	Vertical

**Remark:**

- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier (dB)  
 Margin = Limit[dBµV/m] -Value[dBµV/m]

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### 5.3 Radiated Emissions (above 1GHz)

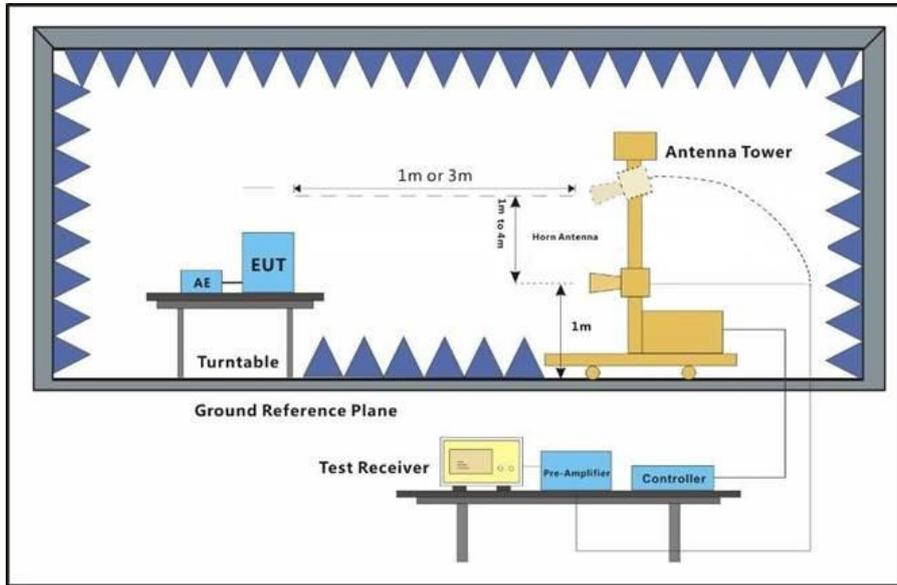
Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	Above 1GHz		
Measurement Distance:	3m		
Limit:	Frequency (MHz)	Limit (dB $\mu$ V/m)	Detector
	Above 1GHz	74 54	Peak Average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.		

#### 5.3.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46% RH
Atmospheric Pressure:	101kPa
Pretest these modes to find the worst case:	a: Pen charging mode+Tablet+Adapter b: Pen working mode+Tablet+Adapter
The worst case for final test:	b: Pen working mode+Tablet+Adapter

**5.3.2 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  
 (Distance from antenna to EUT is 1m for measurements >18GHz).
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.
7. At a measurement distance of 1 meter the limit line was increased by  $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$ .



**5.3.3 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.

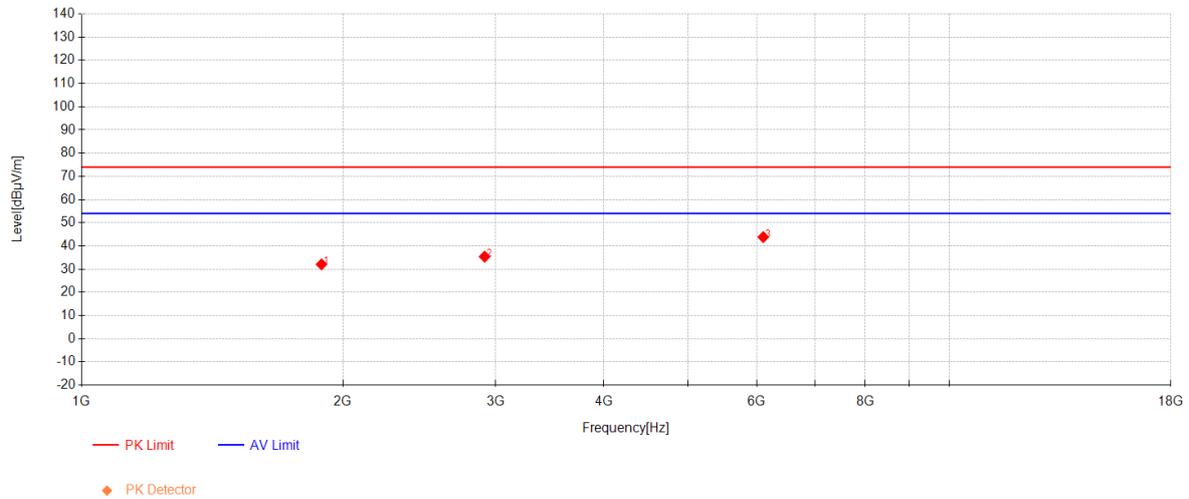
Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.



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Final Test Mode:	Mode b	Polarization:	Horizontal
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	1890.375	52.94	25.37	-46.25	32.06	74.00	41.94	Horizontal
2	2913.775	50.40	29.14	-44.15	35.39	74.00	38.61	Horizontal
3	6102.975	48.77	35.01	-39.96	43.81	74.00	30.19	Horizontal

**Remark:**

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Pre-amplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]

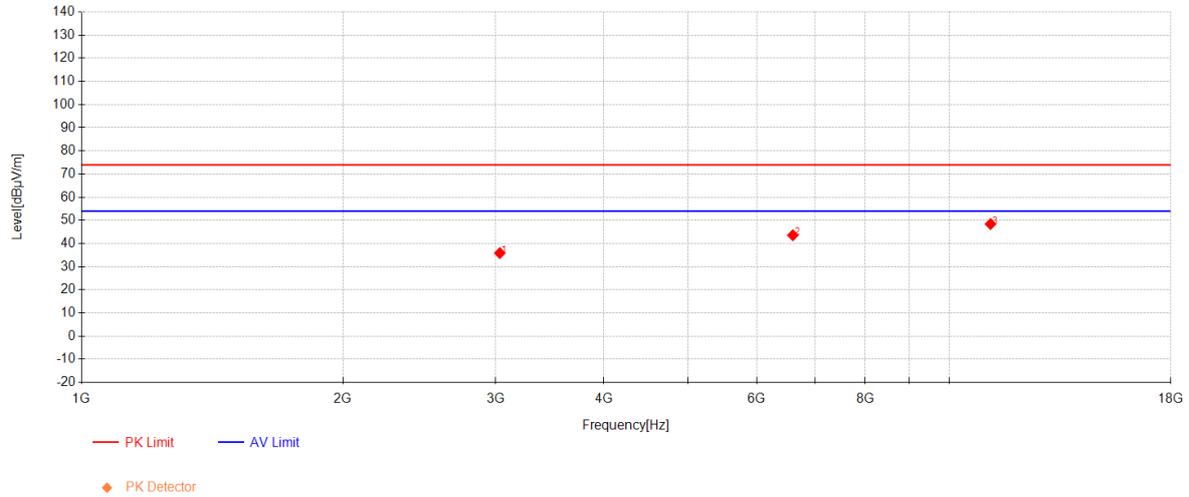
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Final Test Mode:	Mode b	Polarization:	Vertical
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	3033.625	50.33	29.51	-43.97	35.86	74.00	38.14	Vertical
2	6601.5	46.71	35.84	-38.97	43.58	74.00	30.42	Vertical
3	11155.375	40.20	38.40	-30.18	48.42	74.00	25.58	Vertical

**Remark:**

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:
  - AF = Antenna Factor(dB/m)
  - Factor = Cable Factor(dB) - Pre-amplifier gain(dB)
  - Margin = Limit[dBµV/m] – Level[dBµV/m]



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### **6 Photographs**

#### **6.1 Test Setup**

Refer to Appendix A.1 15B Setup Photos.

---End of Report---