

# TEST REPORT

**Application No.:** ZR/2020/10013  
**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 P.R.China  
**EUT Description:** Portable Tablet Computer  
**Model No.:** Lenovo TB-X606FA  
**Trade Mark:** Lenovo  
**FCC ID:** O57TBX606F  
**Standard(s) :** 47 CFR Part 15, Subpart B/ ICES-003:Issue 6  
**Date of Receipt:** 2019/11/9  
**Date of Test:** 2019/11/10 to 2019/11/21  
**Date of Issue:** 2021/8/16

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

Authorized Signature:

Derek Yang

Wireless Laboratory Manager

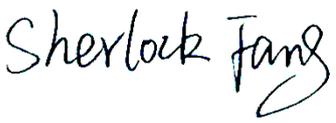


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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
00		2020/1/15		Original
01		2021/7/4	Sherlock Fang	1.Add test site Information 2. Modify data conversion error of antenna height 3.Update equipment list
02		2021/8/16	Sherlock Fang	Updated Support Units, Test facility and Test Location

\*This report supersedes our previous report ZR/2020/1001305, issued on 2020-01-15, which is hereby deemed null and void.

<b>Authorized for issue by:</b>	
<b>Prepared By</b>	 <hr/> <b>(Sherlock Fang) / Engineer</b>
<b>Checked By</b>	 <hr/> <b>(Jim Huang) / Reviewer</b>



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## 2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B ICES-003:Issue 6	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B ICES-003:Issue 6	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B ICES-003:Issue 6	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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Remark:

Battery			
Battery1	Lenovo(SCUD)	L19D1P32	3.86V; 5000mAh/19.3Wh/1cell
Battery2	Lenovo(ATL)	L19D1P32	3.86V; 5000mAh/19.3Wh/1cell
USB Cable			
USB Cable1	Lenovo(LiQi)	-	1.0m shielded cable without core
USB Cable2	Lenovo(Saibao)	-	1.0m shielded cable without core
Adapter			
Adapter1 (US)	Lenovo(Salom)	SC-41	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
Adapter2 (US)	Lenovo(Acbel)	SC-41	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
Smart Charging Station			
Smart Charging Station1	Lenovo	Lenovo CD-100	I/P: 5Vdc 2000mA O/P: 5Vdc 2000mA
Lenovo Smart Dock			
Lenovo Smart Dock	Lenovo	LenovoHA-200	I/P: 12V 2A O/P: 5V 1.5A

There was no difference between Lenovo TB-X606FA and Lenovo TB-X606F, but only Lenovo Smart Dock added on Lenovo TB-X606FA.

According to the difference above, added the test mode for Smart Dock, other test data reuse the report of Lenovo TB-X606F (Report No.: ZR/2019/A002605-01), and the worst case data displayed in this report.



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## 4 General Information

### 4.1 Details of E.U.T.

Power Supply:	DC 3.86V from internal rechargeable battery or from AC/DC adapter Model No.: SC-41 AC Input: 100-240V 50/60Hz 0.3A DC Output: DC 5V 2A
Cable:	USB cable: 100cm shielded

Battery			
Battery1	Lenovo(SCUD)	L19D1P32	3.86V; 5000mAh/19.3Wh/1cell
Battery2	Lenovo(ATL)	L19D1P32	3.86V; 5000mAh/19.3Wh/1cell
USB Cable			
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Adapter2 (US)	Lenovo(Acbel)	SC-41	I/P: 100-240 Vac, 300mA ,50/60HZ O/P: 5Vdc 2000mA
Smart Charging Station			
Smart Charging Station1	Lenovo	Lenovo CD-100	I/P: 5Vdc 2000mA O/P: 5Vdc 2000mA

According to declaration from manufacturer and pre-test, EUT1 is selected for main testing, others for spot check, only EUT1~EUT4 show in this report. For the detail description, please refer to "Operation description-Declaration of Identity for config".



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**4.2 Description of Support Units**

Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	R6020	No.XA1401
Computer	Lenovo	L480	No.XA1402
Mouse	A4TECH	OP-520NU USB	No.XA1403

**4.3 Measurement Uncertainty**

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)

**4.4 Test Location**

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang, Leah Chen





#### 4.5 Test Facility

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

- **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

- **FCC –Designation Number: CN1271.**

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2019-06-27	2020-06-26
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2019-07-16	2020-07-15
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2018-12-20	2019-12-19
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2019-06-27	2020-06-26
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2019-06-27	2020-06-26
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2018-12-10	2019-12-09
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2018-12-10	2019-12-09
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2018-12-10	2019-12-09
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2018-12-10	2019-12-09
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2018-12-20	2019-12-19
Measurement Software	Tonscend	TS+ RE V3.0.0.2	XAW02-05-01	NCR	NCR



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## 6 Emission Test Results

### 6.1 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
Date of Test	2019.11.18-2019.11.21

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 51.6 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT1 and the PC+USB cable1
- b: Transfer data between the EUT1 and the PC+USB cable2
- c: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+EUT1+Cable(Worst)+adapter1
- d: BT+WLAN+GPS Rx+camera (Front)+earphone+EUT1+Cable(Worst)+adapter2
- e: BT+WLAN+GPS Rx+camera (Back)+earphone+EUT1+Cable(Worst)+adapter(worst)
- f: BT+FM+WLAN+GPS Rx+earphone+EUT1+Cable(Worst)+adapter(worst)
- g: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+EUT1+Smart charging station
- h: Smart Dock+ BT+WLAN+GPS Rx+playing MP4 (SD card) +earphone +EUT1
- i: Worst mode+EUT2+apter(Worst)
- j: Worst mode+EUT3+adapter(Worst)
- k: Worst mode+EUT4+adapter(Worst)

The worst case for final test:

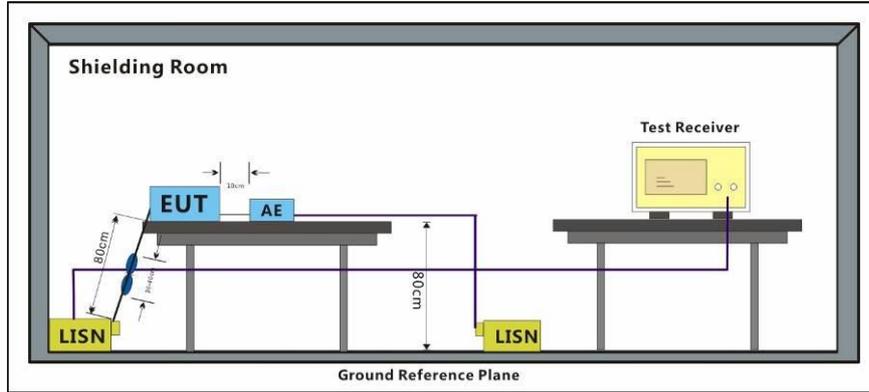
- a: Transfer data between the EUT1 and the PC+USB cable1
- b: Transfer data between the EUT1 and the PC+USB cable2
- c: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+EUT1+Cable1+adapter1
- d: BT+WLAN+GPS Rx+camera (Front)+earphone+EUT1+Cable1+adapter2
- e: BT+WLAN+GPS Rx+camera (Back)+earphone+EUT1+Cable1+adapter2
- f: BT+FM+WLAN+GPS Rx+earphone+EUT1+Cable1+adapter2
- g: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+EUT1+Smart charging station
- h: Smart Dock+ BT+WLAN+GPS Rx+playing MP4 (SD card) +earphone +EUT1
- i: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone +EUT2+adapter2
- j: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone +EUT3+adapter2



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k: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone +EUT4+adapter2

**6.1.2 Test Setup Diagram**



**6.1.3 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.

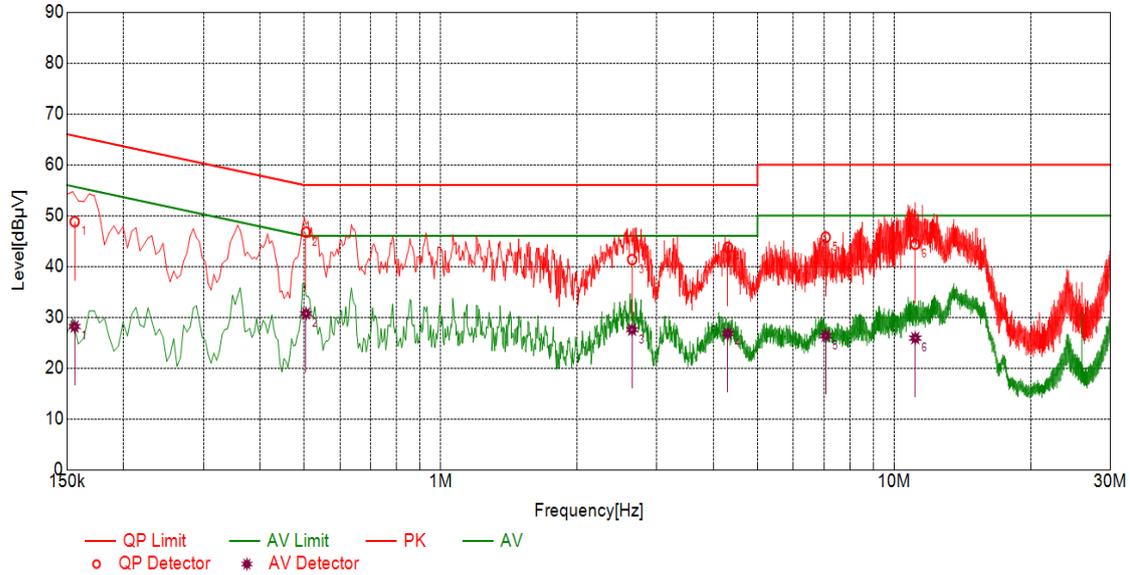


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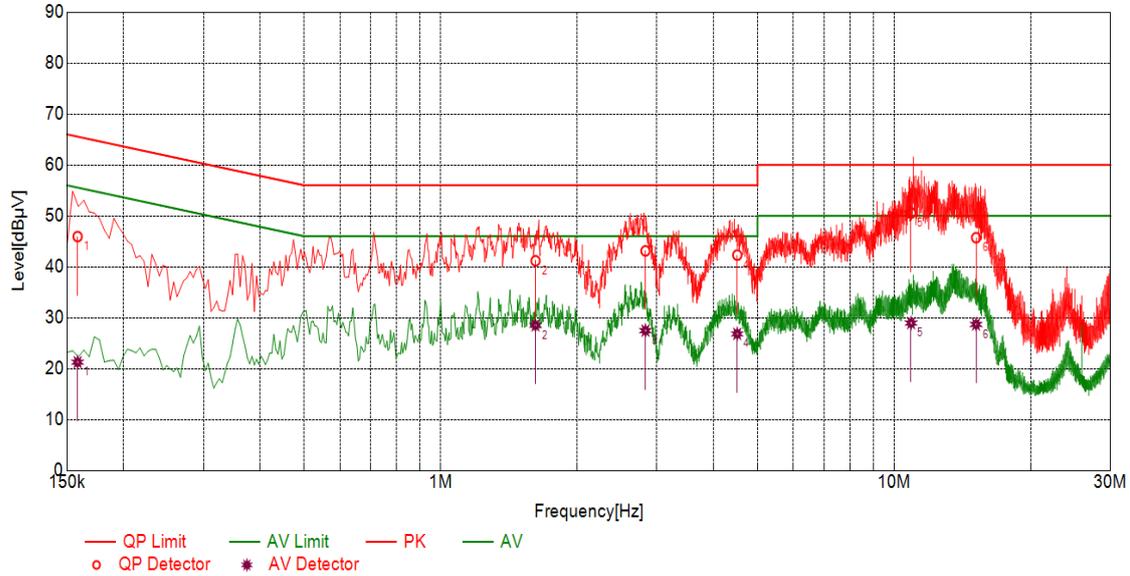
**Final Data List**

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1560	10.10	48.80	65.67	16.87	28.17	55.67	27.50	L
2	0.5050	10.10	46.74	56.00	9.26	30.71	46.00	15.29	L
3	2.6447	10.10	41.35	56.00	14.65	27.55	46.00	18.45	L
4	4.3005	10.10	43.77	56.00	12.23	26.80	46.00	19.20	L
5	7.0671	10.10	45.74	60.00	14.26	26.35	50.00	23.65	L
6	11.1323	10.10	44.38	60.00	15.62	25.89	50.00	24.11	L



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Mode:d; Line:Neutral Line



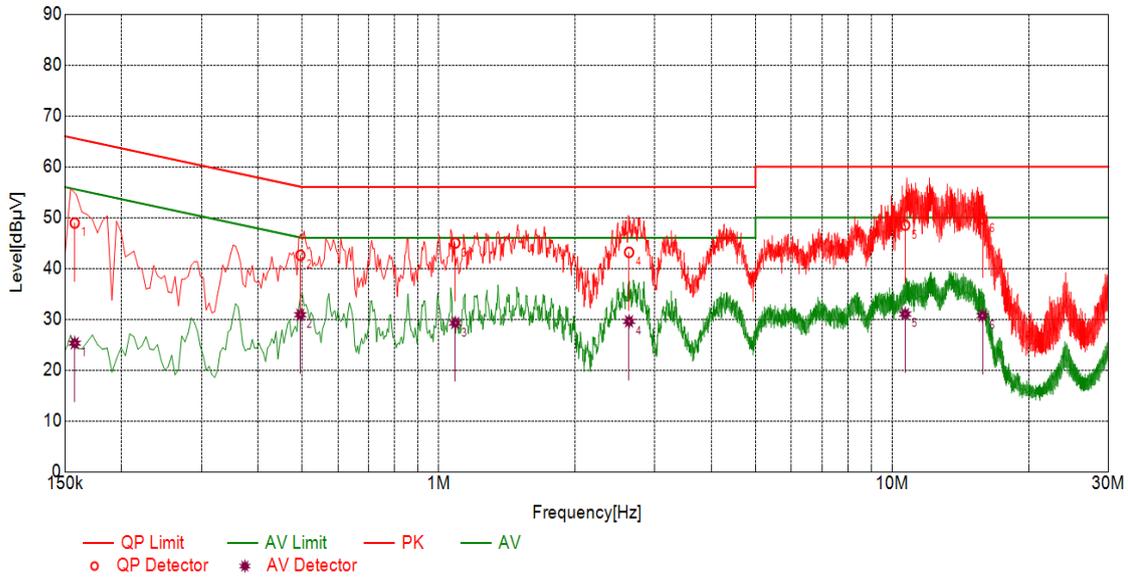
**Final Data List**

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1584	10.10	45.94	65.55	19.61	21.26	55.55	34.29	N
2	1.6193	10.10	41.18	56.00	14.82	28.51	46.00	17.49	N
3	2.8300	10.10	43.12	56.00	12.88	27.47	46.00	18.53	N
4	4.5090	10.10	42.30	56.00	13.70	26.83	46.00	19.17	N
5	10.8992	10.10	50.56	60.00	9.44	28.95	50.00	21.05	N
6	15.1634	10.11	45.72	60.00	14.28	28.69	50.00	21.31	N



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Mode:g; Line:Live Line

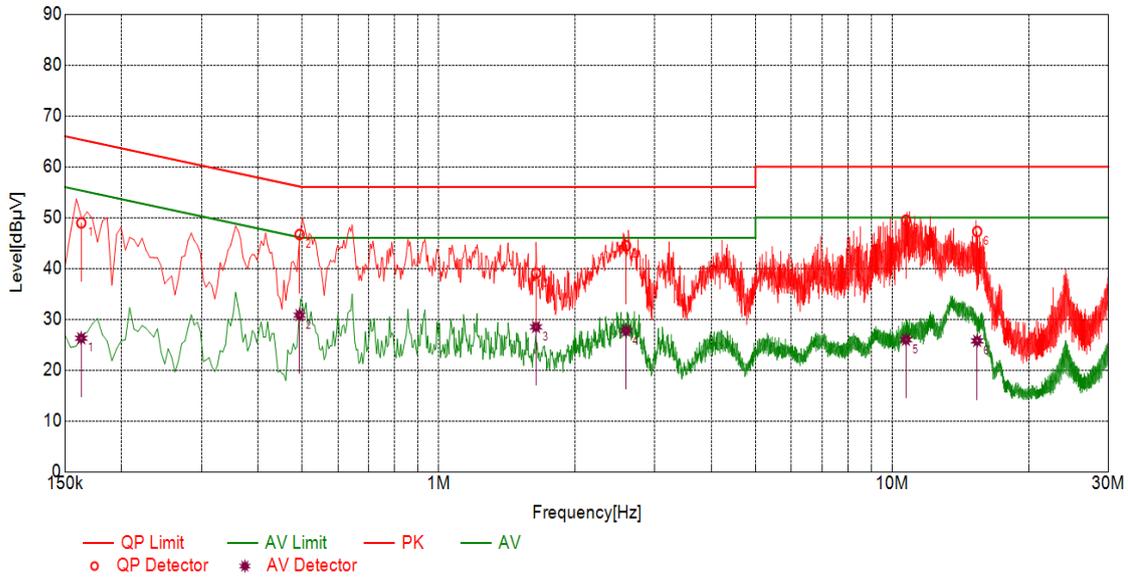


Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1577	10.10	48.93	65.59	16.66	25.29	55.59	30.30	L
2	0.4957	10.10	42.59	56.07	13.48	30.89	46.07	15.18	L
3	1.0886	10.10	45.00	56.00	11.00	29.26	46.00	16.74	L
4	2.6308	10.10	43.17	56.00	12.83	29.59	46.00	16.41	L
5	10.6846	10.10	48.52	60.00	11.48	31.03	50.00	18.97	L
6	15.8344	10.11	49.74	60.00	10.26	30.71	50.00	19.29	L



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Mode:g; Line:Neutral Line

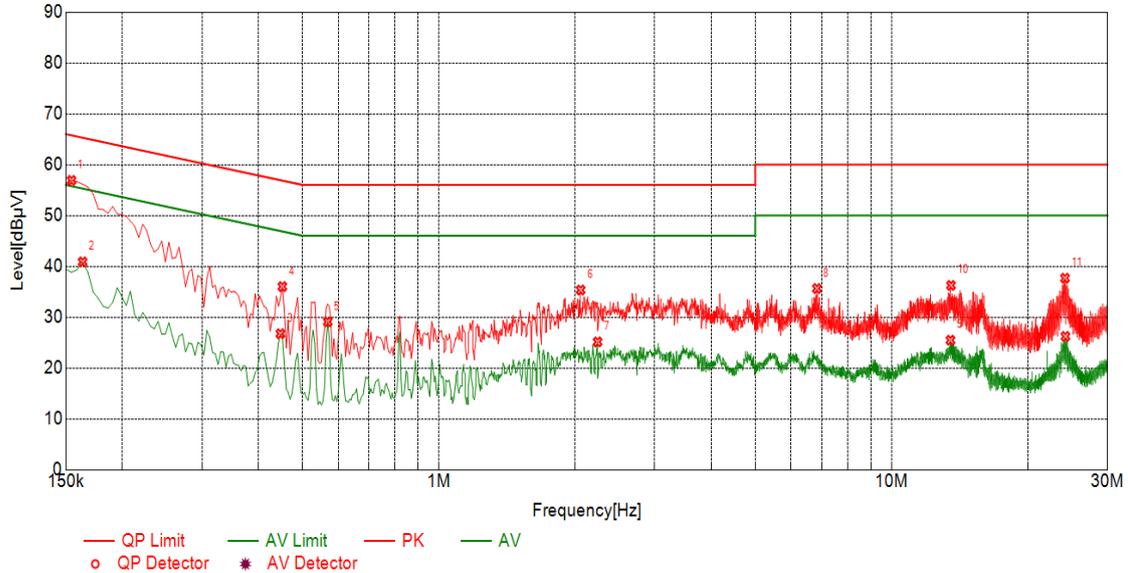


Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1630	10.10	48.95	65.31	16.36	26.26	55.31	29.05	N
2	0.4938	10.10	46.66	56.10	9.44	30.82	46.10	15.28	N
3	1.6406	10.10	39.05	56.00	16.95	28.49	46.00	17.51	N
4	2.5914	10.10	44.45	56.00	11.55	27.73	46.00	18.27	N
5	10.7296	10.10	49.49	60.00	10.51	25.98	50.00	24.02	N
6	15.4021	10.11	47.27	60.00	12.73	25.75	50.00	24.25	N



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Mode:h; Line:Live Line

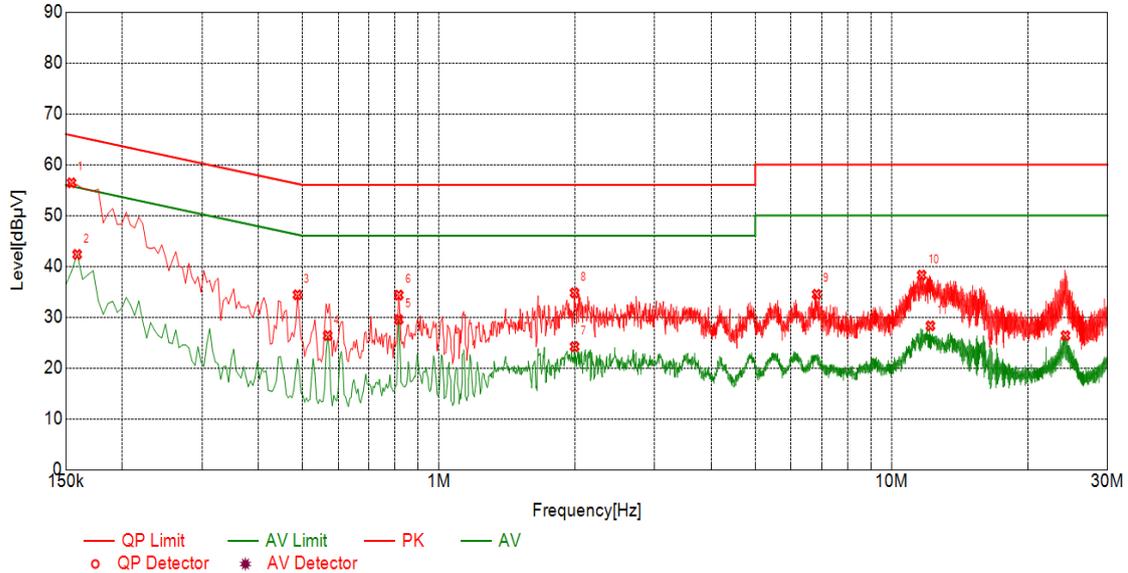


Suspected List							
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector	Type
1	0.1545	56.90	10.10	65.75	8.85	PK	L
2	0.1635	40.87	10.10	55.28	14.41	AV	L
3	0.4470	26.74	10.10	46.93	20.19	AV	L
4	0.4515	36.01	10.10	56.85	20.84	PK	L
5	0.5685	29.10	10.10	46.00	16.90	AV	L
6	2.0580	35.34	10.10	56.00	20.66	PK	L
7	2.2425	25.14	10.10	46.00	20.86	AV	L
8	6.8415	35.63	10.10	60.00	24.37	PK	L
9	13.4925	25.47	10.11	50.00	24.53	AV	L
10	13.5285	36.24	10.11	60.00	23.76	PK	L
11	24.1575	37.67	10.11	60.00	22.33	PK	L
12	24.2070	26.22	10.11	50.00	23.78	AV	L



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Mode:h; Line:Neutral Line



Suspected List							
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector	Type
1	0.1545	56.42	10.10	65.75	9.33	PK	N
2	0.1590	42.34	10.10	55.52	13.18	AV	N
3	0.4875	34.40	10.10	56.21	21.81	PK	N
4	0.5685	26.38	10.10	46.00	19.62	AV	N
5	0.8160	29.53	10.10	46.00	16.47	AV	N
6	0.8160	34.34	10.10	56.00	21.66	PK	N
7	1.9950	24.21	10.10	46.00	21.79	AV	N
8	1.9950	34.78	10.10	56.00	21.22	PK	N
9	6.8325	34.49	10.10	60.00	25.51	PK	N
10	11.6565	38.27	10.10	60.00	21.73	PK	N
11	12.1830	28.29	10.10	50.00	21.71	AV	N
12	24.2160	26.36	10.11	50.00	23.64	AV	N



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## 6.2 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:	10m
Limit of 3m:	
30MHz -88MHz	40(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46(dBμV/m) quasi-peak
960MHz-1000MHz	54(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz
Date of Test	2019.11.18-2019.11.21

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1010 mbar

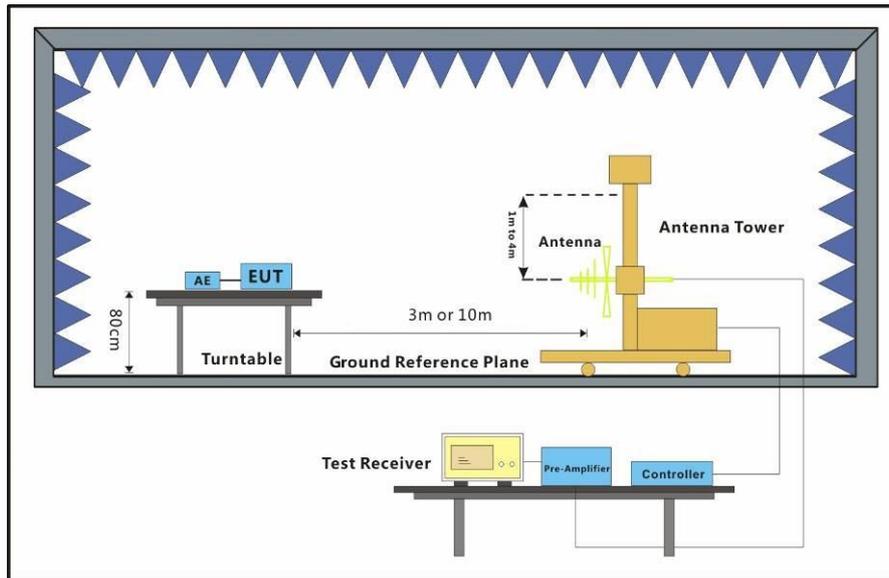
Pretest these modes to find the worst case:

- a: Transfer data between the EUT1 and the PC+USB cable1
- b: Transfer data between the EUT1 and the PC+USB cable2
- c: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+EUT1+Cable(Worst)+adapter1
- d: BT+WLAN+GPS Rx+camera (Front)+earphone+EUT1+Cable(Worst)+adapter2
- e: BT+WLAN+GPS Rx+camera (Back)+earphone+EUT1+Cable(Worst)+adapter(Worst)
- f: BT+FM+WLAN+GPS Rx+earphone+EUT1+Cable(Worst)+adapter(Worst)
- g: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+EUT1+Smart charging station
- h: Smart Dock+ BT+WLAN+GPS Rx+playing MP4 (SD card) +earphone +EUT1
- i: Worst mode+EUT2+adapter(Worst)
- j: Worst mode+EUT3+adapter(Worst)
- k: Worst mode+EUT4+adapter(Worst)
- d: BT+WLAN+GPS Rx+camera (Front)+earphone+EUT1+Cable(Worst)+adapter2
- e: BT+WLAN+GPS Rx+camera (Back) +earphone+EUT1+ Cable(Worst)+ adapter (Worst)
- h: Smart Dock+ BT+WLAN+GPS Rx+playing MP4 (SD card) +earphone +EUT1

The worst case for final test:



**6.2.2 Test Setup Diagram**



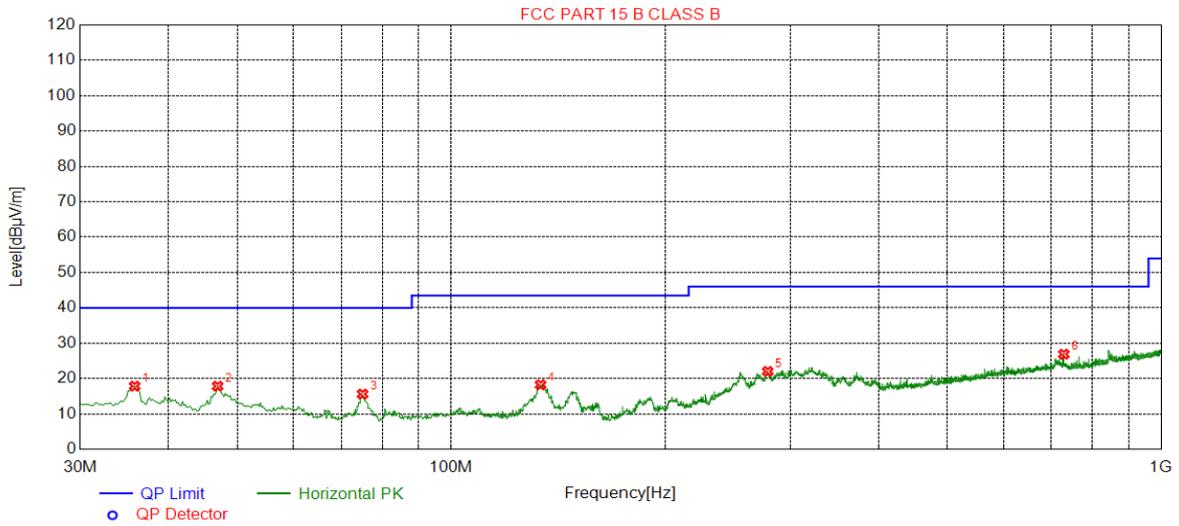
**6.2.3 Measurement Data**

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.



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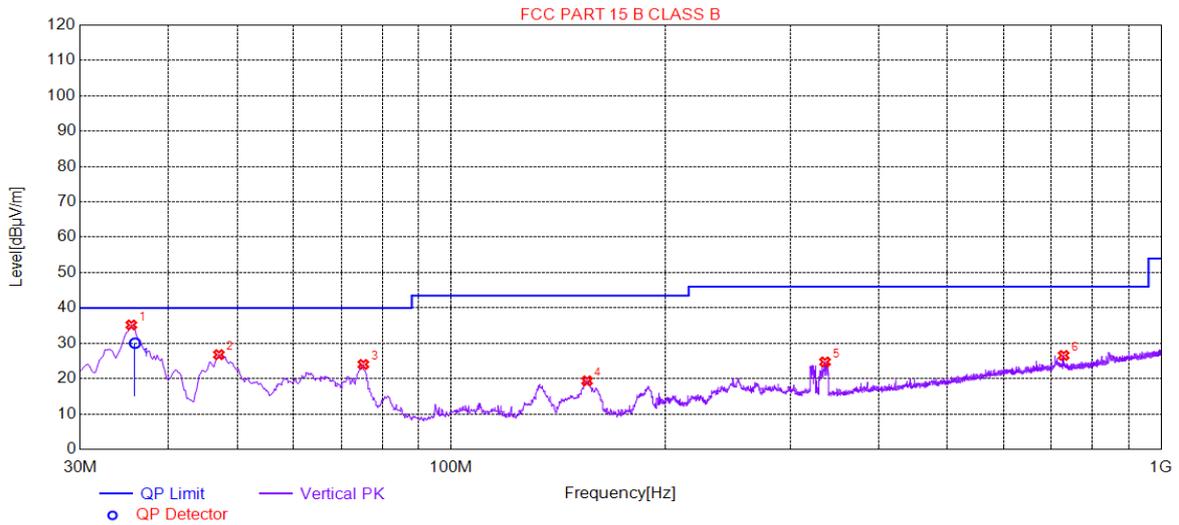
Mode:d;



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8212	17.86	-29.69	40.00	22.14	168	279	Horizontal
2	46.8814	17.85	-30.40	40.00	22.15	163	320	Horizontal
3	75.0170	15.62	-35.25	40.00	24.38	209	332	Horizontal
4	133.616	18.23	-35.25	43.50	25.27	160	346	Horizontal
5	279.145	22.03	-29.01	46.00	23.97	245	346	Horizontal
6	729.315	26.89	-18.82	46.00	19.11	241	61	Horizontal



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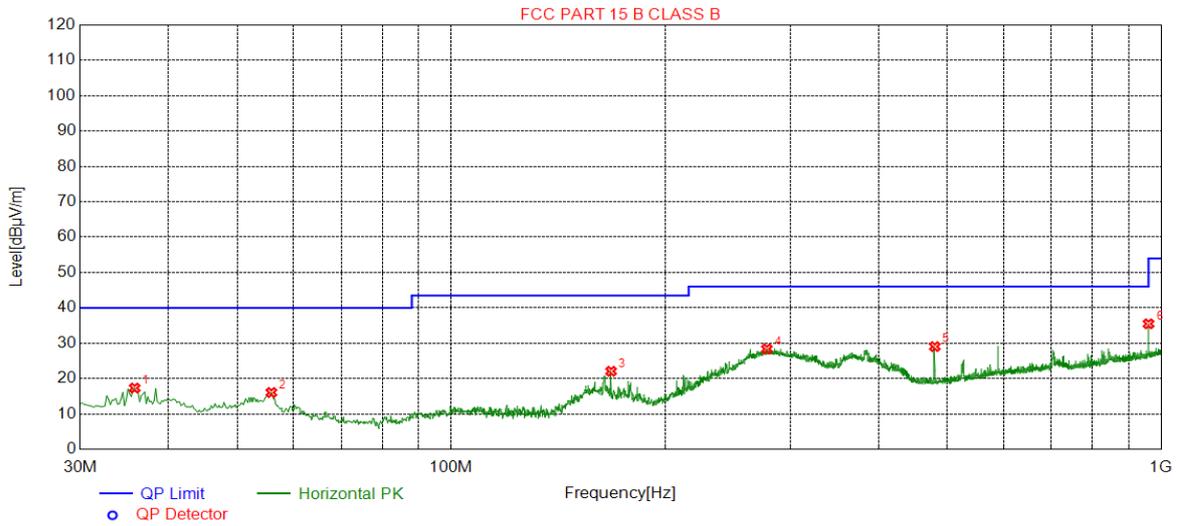
**Suspected List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.4331	35.19	-29.82	40.00	4.81	222	346	Vertical
2	47.0754	26.79	-30.40	40.00	13.21	190	335	Vertical
3	75.2110	24.03	-35.29	40.00	15.97	211	0	Vertical
4	155.349	19.37	-34.84	43.50	24.13	206	10	Vertical
5	336.193	24.74	-27.24	46.00	21.26	295	40	Vertical
6	728.927	26.56	-18.83	46.00	19.44	201	276	Vertical



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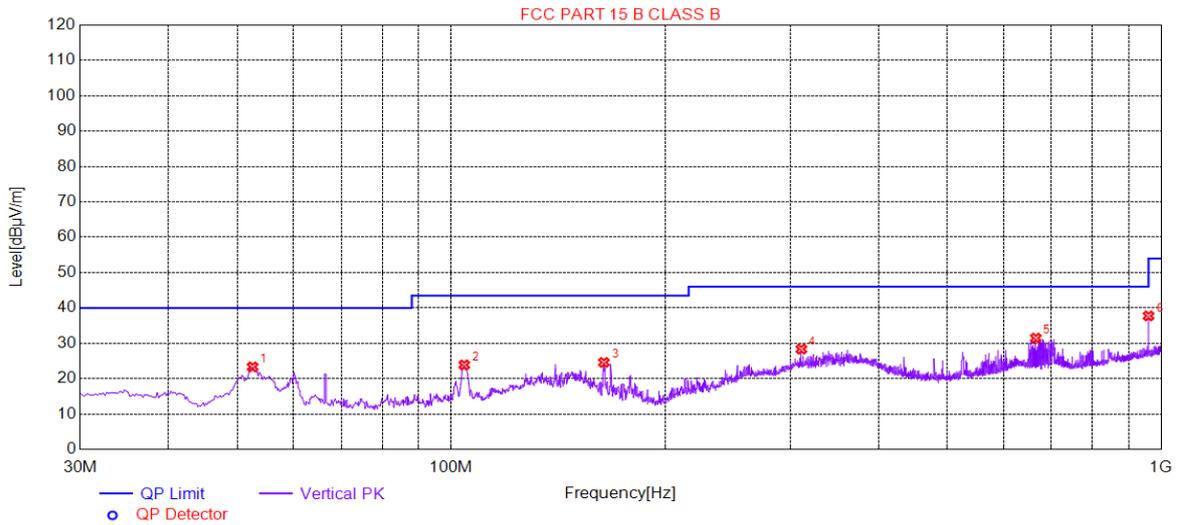
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Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8212	17.32	-29.69	40.00	22.68	183	302	Horizontal
2	55.8072	16.06	-31.24	40.00	23.94	182	308	Horizontal
3	167.961	22.07	-34.16	43.50	21.43	160	274	Horizontal
4	278.369	28.37	-29.02	46.00	17.63	192	258	Horizontal
5	479.976	29.04	-23.82	46.00	16.96	239	123	Horizontal
6	960.028	35.49	-15.34	54.00	18.51	240	211	Horizontal



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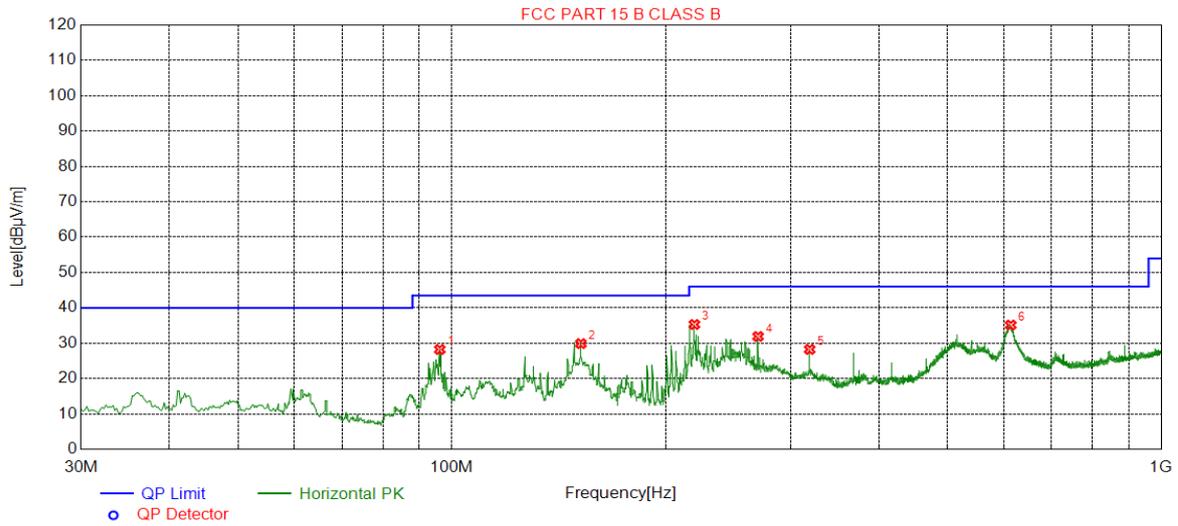


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.5085	23.33	-30.74	40.00	16.67	299	183	Vertical
2	104.3169	23.90	-32.00	43.50	19.60	211	144	Vertical
3	164.0808	24.59	-34.39	43.50	18.91	196	165	Vertical
4	311.3563	28.35	-27.94	46.00	17.65	235	337	Vertical
5	666.0592	31.46	-19.86	46.00	14.54	206	153	Vertical
6	960.0280	37.75	-15.34	54.00	16.25	180	347	Vertical



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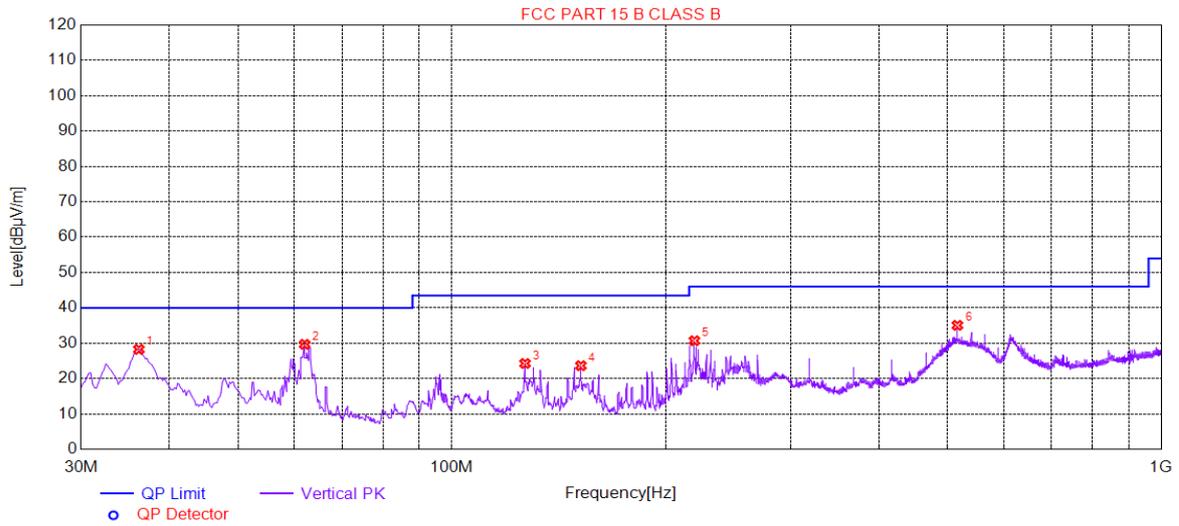
Mode:h;



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	96.1672	28.21	-32.68	43.50	15.29	108	330	Horizontal
2	152.050	29.89	-34.99	43.50	13.61	191	356	Horizontal
3	219.770	35.30	-30.72	46.00	10.70	127	12	Horizontal
4	270.220	31.91	-29.17	46.00	14.09	135	50	Horizontal
5	319.505	28.24	-27.71	46.00	17.76	167	39	Horizontal
6	613.668	35.14	-20.47	46.00	10.86	229	346	Horizontal



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Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.2092	28.24	-32.57	40.00	11.76	287	0	Vertical
2	62.0164	29.69	-32.38	40.00	10.31	229	70	Vertical
3	126.825	24.28	-34.60	43.50	19.22	203	14	Vertical
4	152.050	23.65	-34.99	43.50	19.85	204	170	Vertical
5	219.770	30.69	-30.72	46.00	15.31	279	300	Vertical
6	516.067	35.06	-22.91	46.00	10.94	172	22	Vertical



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### 6.3 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(dB $\mu$ V/m) peak, 54(dB $\mu$ V/m) average  
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 30000MHz  
Date of Test 2019.11.18-2019.11.21

#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 60.3 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT1 and the PC+USB cable1
- b: Transfer data between the EUT1 and the PC+USB cable2
- c: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+EUT1+Cable(Worst)+adapter1
- d: BT+WLAN+GPS Rx+camera (Front)+earphone+EUT1+Cable(Worst)+adapter2
- e: BT+WLAN+GPS Rx+camera (Back)+earphone+EUT1+Cable(Worst)+adapter(Worst)
- f: BT+FM+WLAN+GPS Rx+earphone+EUT1+Cable(Worst)+adapter(Worst)
- g: BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+EUT1+Smart charging station
- h: Smart Dock+ BT+WLAN+GPS Rx+playing MP4 (SD card) +earphone +EUT1
- i: Worst mode+EUT2+adapter(Worst)
- j: Worst mode+EUT3+adapter(Worst)
- k: Worst mode+EUT4+adapter(Worst)

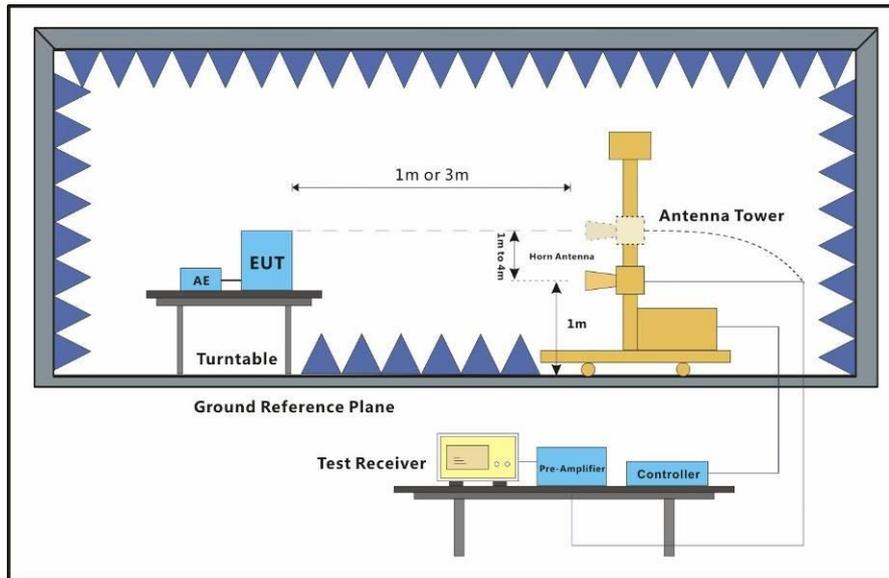
The worst case for final test:

- d: BT+WLAN+GPS Rx+camera (Front)+earphone+EUT1+Cable(Worst)+adapter2
- e: BT+WLAN+GPS Rx+camera (Back)+earphone+EUT1+ Cable(Worst)+adapter (Worst)
- h: Smart Dock+ BT+WLAN+GPS Rx+playing MP4 (SD card) +earphone +EUT1



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**6.3.2 Test Setup Diagram**



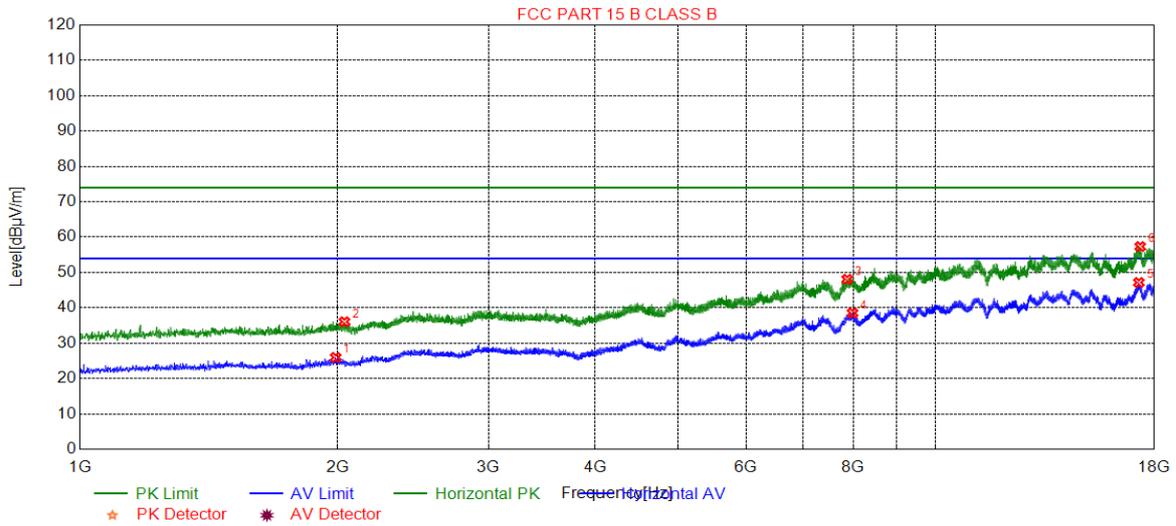
**6.3.3 Measurement Data**

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.

Scan from 1GHz to 30GHz, the disturbance above 6GHz 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:d; Polarization:Horizontal



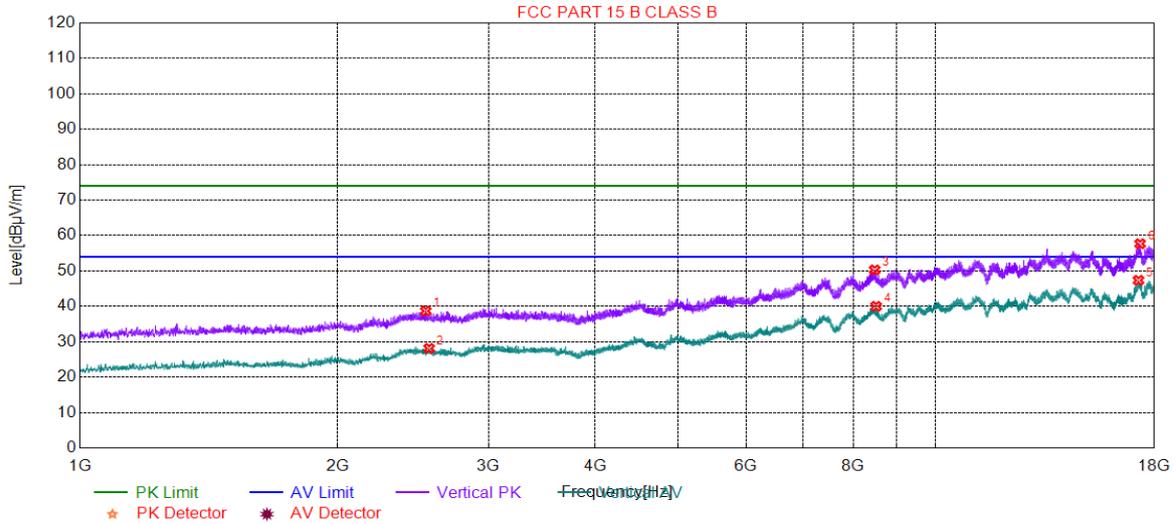
Suspected List								
N O.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1989.4495	25.97	-28.47	54.00	28.03	155	74	Horizontal
2	2037.0519	36.06	-28.63	74.00	37.94	239	255	Horizontal
3	7875.9938	48.07	-10.80	74.00	25.93	248	164	Horizontal
4	7989.8995	38.53	-9.95	54.00	15.47	226	75	Horizontal
5	17258.762	47.17	-1.81	54.00	6.83	124	74	Horizontal
6	17322.516	57.33	-1.53	74.00	16.67	231	74	Horizontal



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Mode:d; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2535.1768	38.68	-25.87	74.00	35.32	235	256	Vertical
2	2558.1279	28.13	-25.85	54.00	25.87	295	286	Vertical
3	8481.2241	50.29	-9.07	74.00	23.71	292	194	Vertical
4	8512.6756	40.01	-9.01	54.00	13.99	187	45	Vertical
5	17242.6121	47.35	-1.95	54.00	6.65	245	166	Vertical
6	17315.7158	57.68	-1.51	74.00	16.32	150	194	Vertical

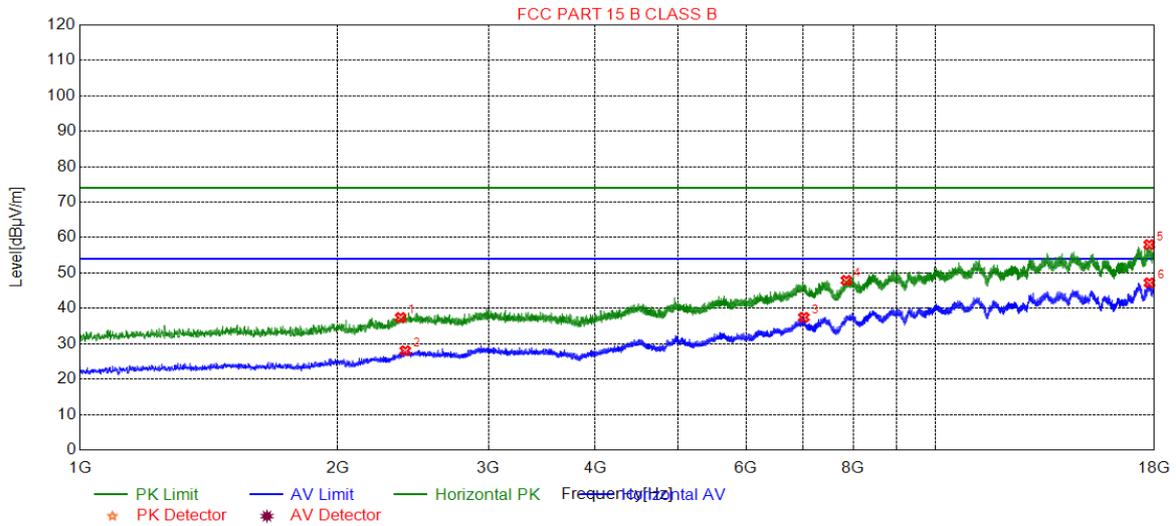


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Mode:e; Polarization:Horizontal



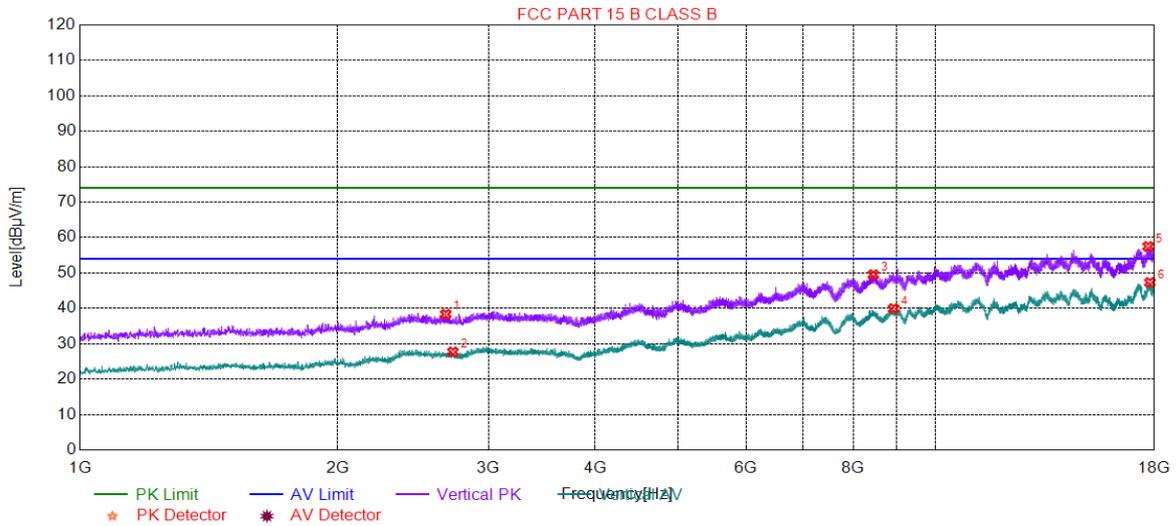
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.4185	37.42	-26.59	74.00	36.58	203	196	Horizontal
2	2399.1700	28.06	-26.02	54.00	25.94	184	166	Horizontal
3	7008.9504	37.47	-12.55	54.00	16.53	249	257	Horizontal
4	7858.9930	47.90	-10.93	74.00	26.10	109	43	Horizontal
5	17748.3874	57.99	-1.24	74.00	16.01	219	226	Horizontal
6	17755.1878	47.21	-1.31	54.00	6.79	159	104	Horizontal



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Mode:e; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2675.4338	38.33	-25.73	74.00	35.67	214	315	Vertical
2	2727.2864	27.70	-25.81	54.00	26.30	250	166	Vertical
3	8449.7725	49.51	-9.35	74.00	24.49	267	254	Vertical
4	8924.9462	39.92	-7.95	54.00	14.08	210	286	Vertical
5	17695.6848	57.47	-0.82	74.00	16.53	194	285	Vertical
6	17780.6890	47.30	-1.55	54.00	6.70	249	194	Vertical

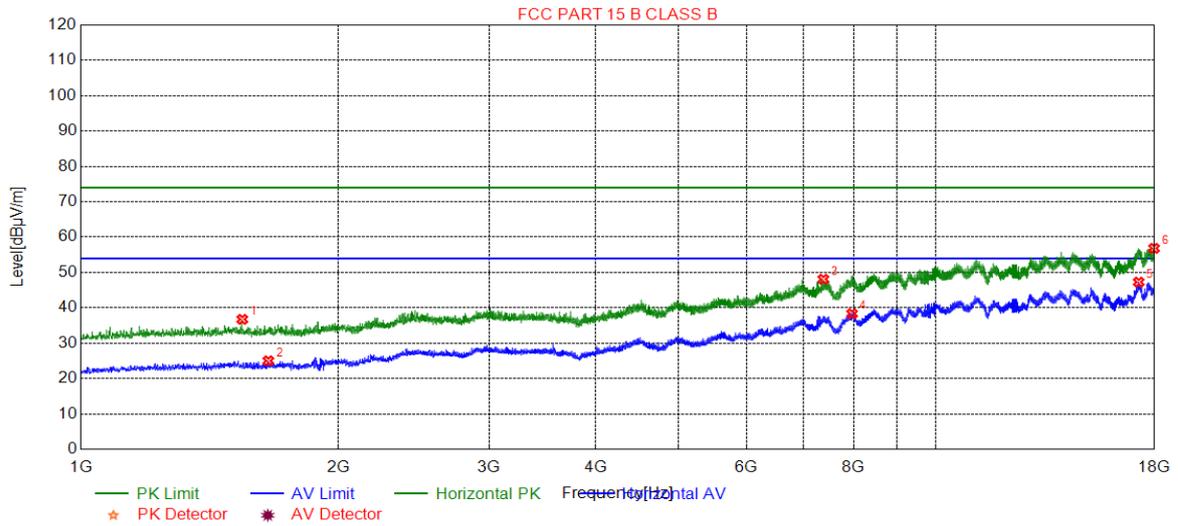


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Mode:h; Polarization:Horizontal

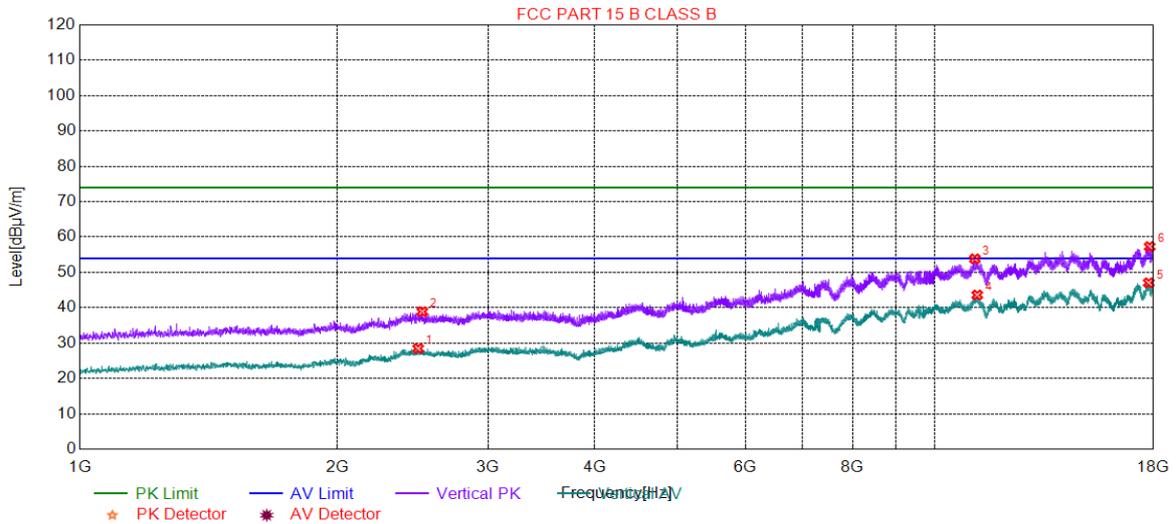


Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1544.02	36.75	-30.13	74.00	37.25	148	226	Horizontal
2	1656.23	25.04	-30.12	54.00	28.96	143	45	Horizontal
3	7379.56	48.09	-12.02	74.00	25.91	161	196	Horizontal
4	7972.89	38.34	-10.07	54.00	15.66	226	255	Horizontal
5	17248.5	47.28	-1.90	54.00	6.72	224	224	Horizontal
6	17974.4	56.82	-2.16	74.00	17.18	241	164	Horizontal



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Mode:d; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.87	28.46	-25.92	54.00	25.54	223	316	Vertical
2	2513.92	38.88	-25.89	74.00	35.12	175	195	Vertical
3	11128.2	53.84	-3.88	74.00	20.16	159	134	Vertical
4	11199.6	43.61	-4.01	54.00	10.39	287	346	Vertical
5	17768.7	47.05	-1.44	54.00	6.95	250	75	Vertical
6	17814.6	57.29	-1.87	74.00	16.71	192	134	Vertical



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## 7 Photographs

### 7.1 Test Setup

Please refer to setup photos.

### 7.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -

