SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park,
Shenzhen, Guangdong, China 518057

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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:	2020/1/15
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derek Yang
Wireless Laboratory Manager

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Revision Record				
Version	***Chapter***	***Date***	***Modifier***	***Remark***
Rev.00		2020/1/15		*Original*

Authorized for issue by:				
		Mike Hu		2020/1/15
		(Mike Hu) /Project Engineer		**Date**
		David Chen		2020/1/15
		(David Chen) /Reviewer		**Date**

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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, there were no test on Lenovo TB-X606FA, the data of Lenovo TB-X606FA were copied from the report of Lenovo TB-X606F (Report No.: ZR/2019/A002605), and the worst case data displayed in this report.

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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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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			
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

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.
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200
Laptop	Lenovo	L480	PF-1N6C3V
SD Card	Kingston	SD-K08G	REF.No.SEA0300

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.5dB (30MHz-1GHz)
		± 4.8dB (1GHz-6GHz)
3	Temperature test	± 1°C
4	Humidity test	± 3%

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4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2019-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-11	2020-07-10
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019-04-01	2020-03-31
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2019-04-12	2020-04-11

Radiated Emissions (above 1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-09	2019-04-12	2020-04-11
Horn Antenna(1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23

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General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03

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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

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

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

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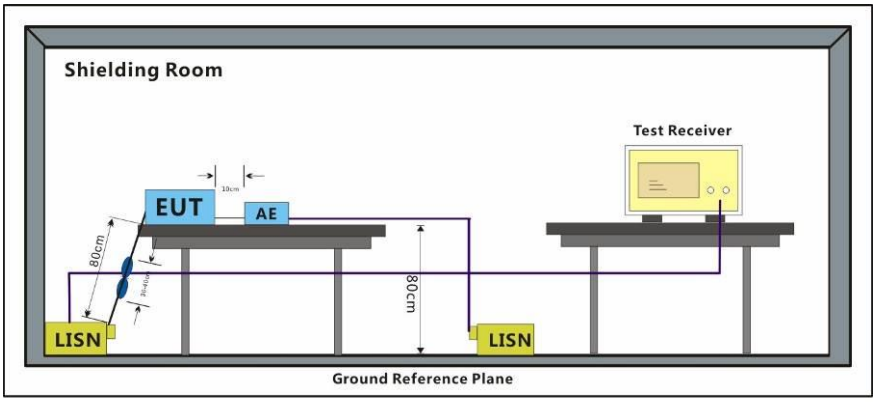
6.1.2 Test Setup Diagram



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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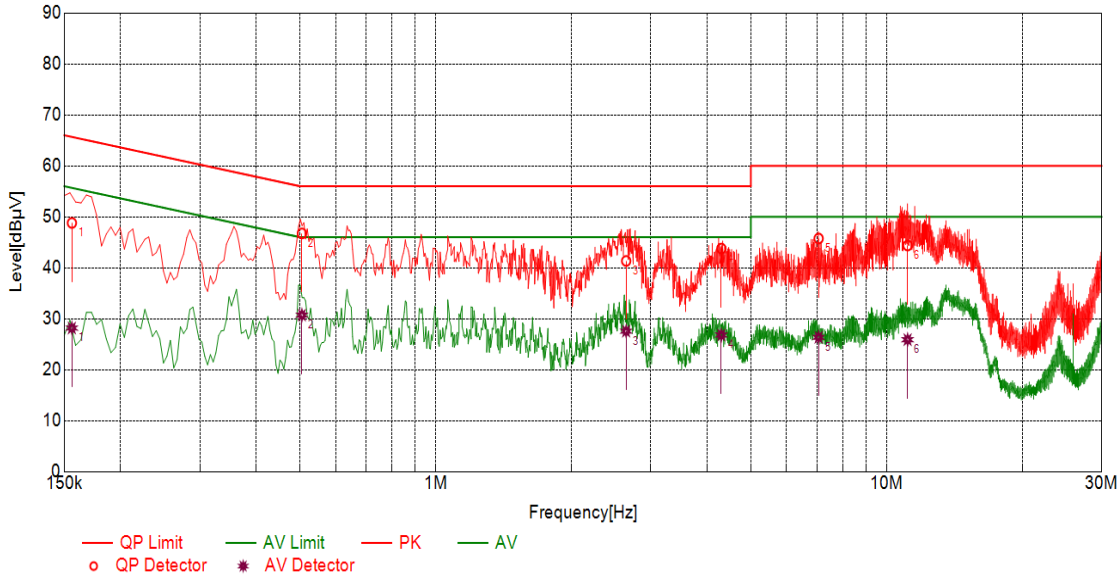
Mode:d; Line:Live Line



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	0.1560	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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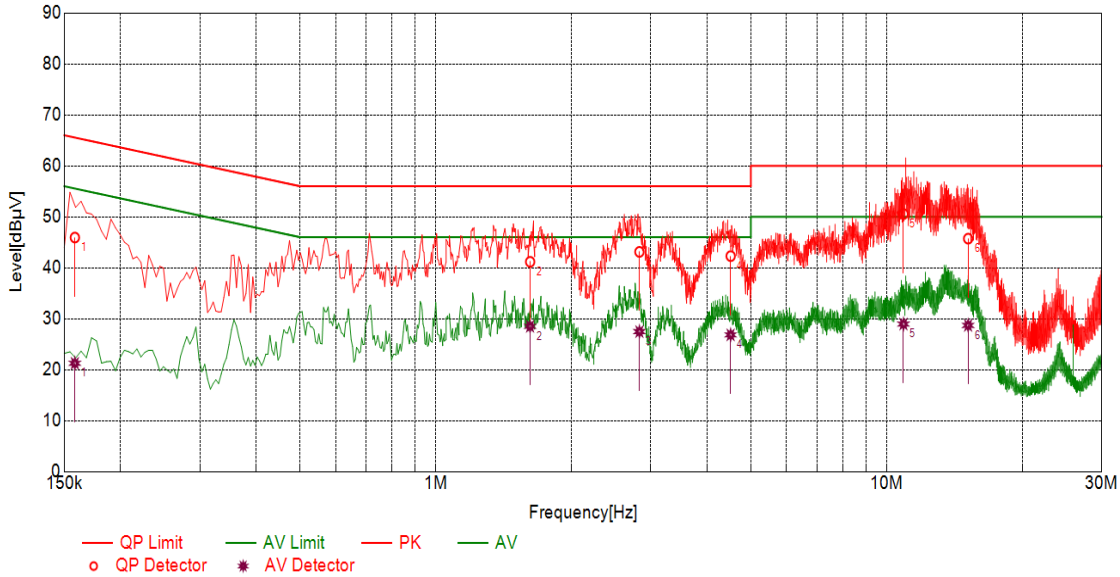

Final Data List									
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1	0.1584	10.10	45.94	65.55	19.61	21.26	55.55	34.29	N
2	1.6193	10.10	41.18	56.00	14.82	28.51	46.00	17.49	N
3	2.8300	10.10	43.12	56.00	12.88	27.47	46.00	18.53	N
4	4.5090	10.10	42.30	56.00	13.70	26.83	46.00	19.17	N
5	10.8992	10.10	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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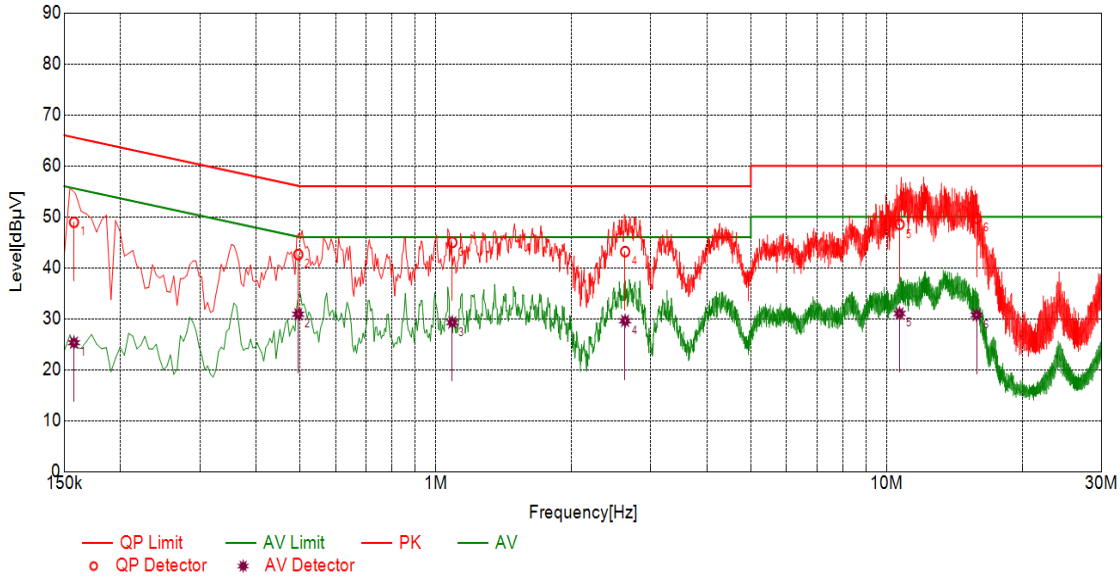

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1	0.1577	10.10	48.93	65.59	16.66	25.29	55.59	30.30	L
2	0.4957	10.10	42.59	56.07	13.48	30.89	46.07	15.18	L
3	1.0886	10.10	45.00	56.00	11.00	29.26	46.00	16.74	L
4	2.6308	10.10	43.17	56.00	12.83	29.59	46.00	16.41	L
5	10.6846	10.10	48.52	60.00	11.48	31.03	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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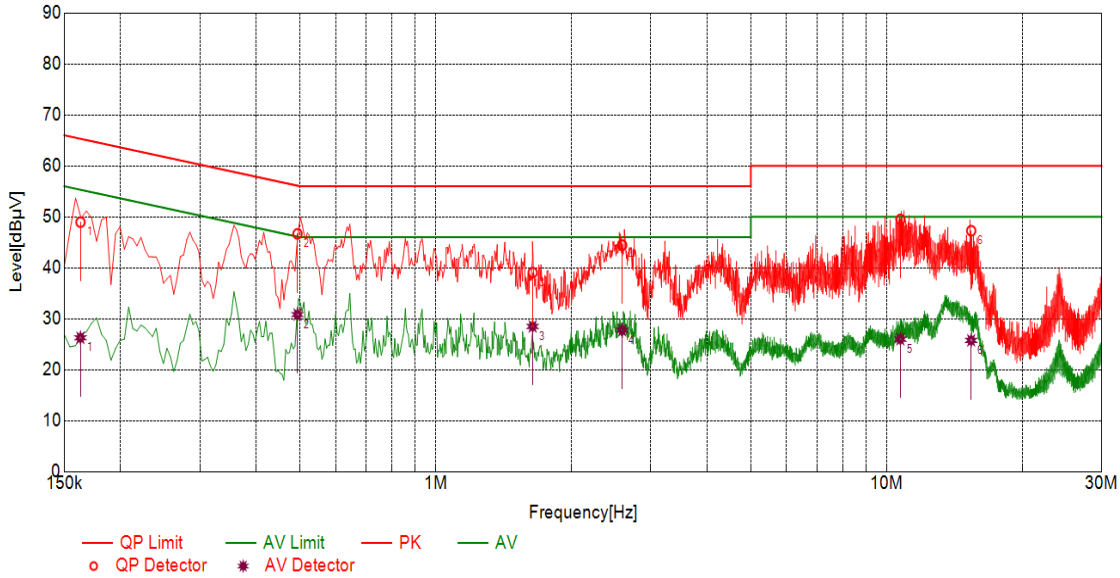

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1630	10.10	48.95	65.31	16.36	26.26	55.31	29.05	N
2	0.4938	10.10	46.66	56.10	9.44	30.82	46.10	15.28	N
3	1.6406	10.10	39.05	56.00	16.95	28.49	46.00	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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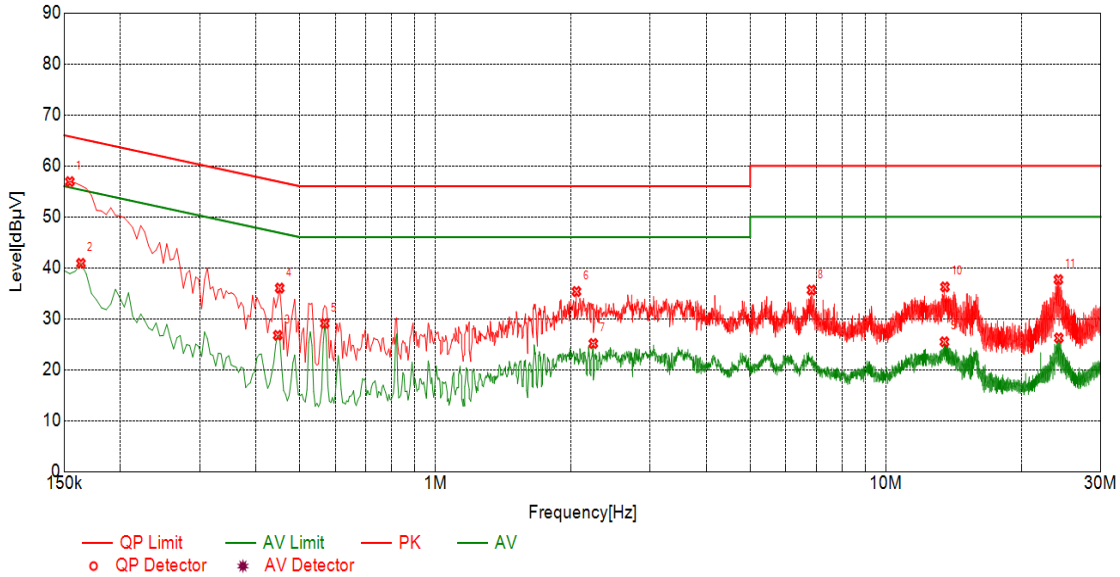

Suspected List							
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector	Type
1	0.1545	56.90	10.10	65.75	8.85	PK	L
2	0.1635	40.87	10.10	55.28	14.41	AV	L
3	0.4470	26.74	10.10	46.93	20.19	AV	L
4	0.4515	36.01	10.10	56.85	20.84	PK	L
5	0.5685	29.10	10.10	46.00	16.90	AV	L
6	2.0580	35.34	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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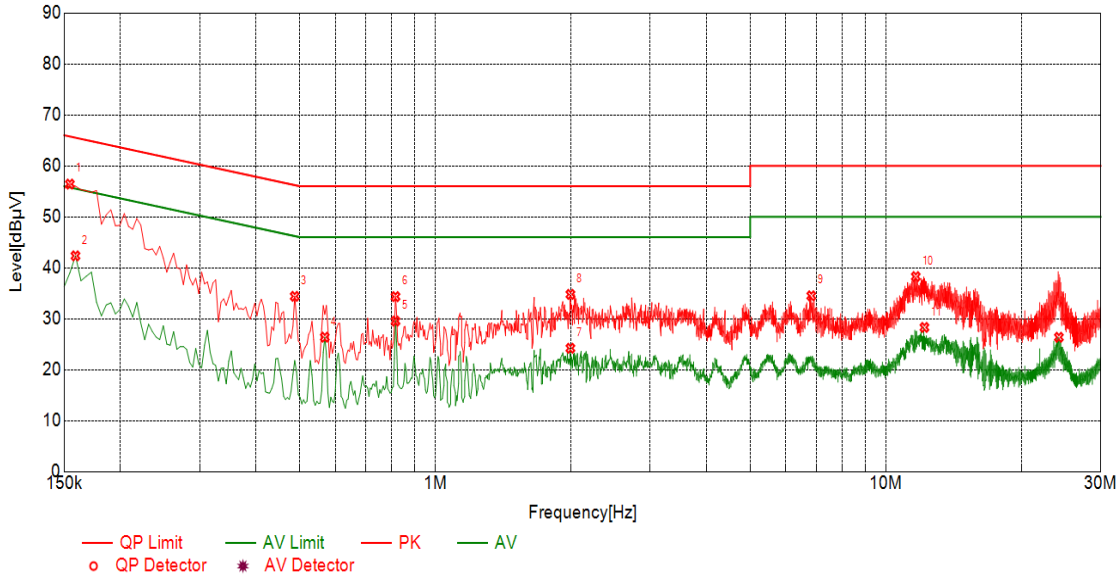

Suspected List							
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector	Type
1	0.1545	56.42	10.10	65.75	9.33	PK	N
2	0.1590	42.34	10.10	55.52	13.18	AV	N
3	0.4875	34.40	10.10	56.21	21.81	PK	N
4	0.5685	26.38	10.10	46.00	19.62	AV	N
5	0.8160	29.53	10.10	46.00	16.47	AV	N
6	0.8160	34.34	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

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)

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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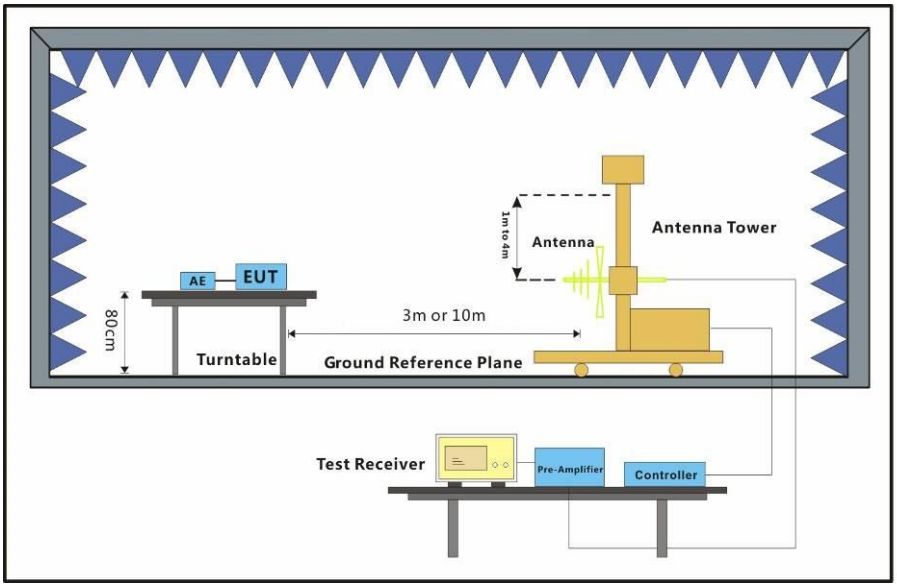
6.2.2 Test Setup Diagram



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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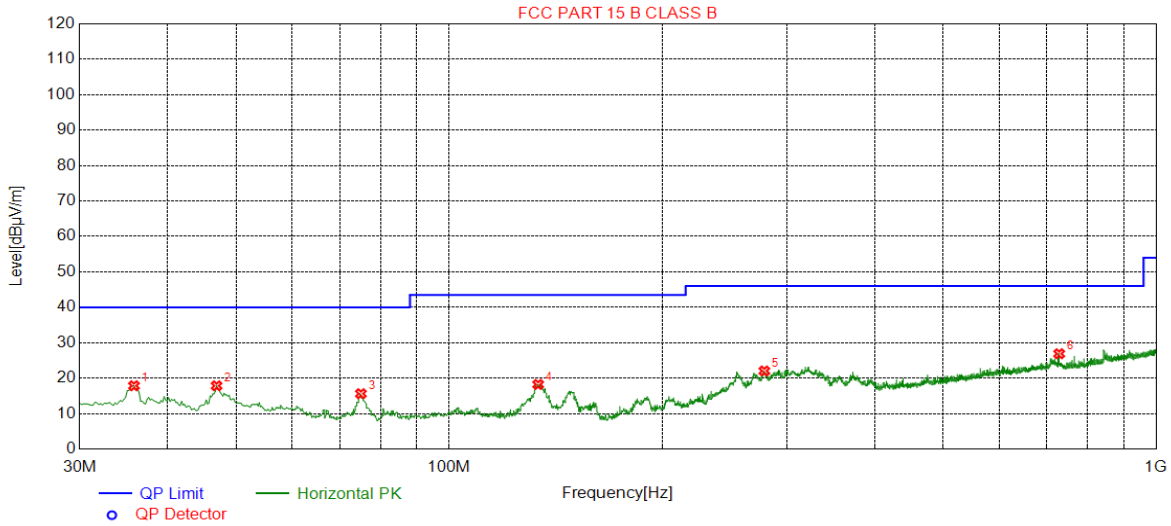

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8212	17.86	-29.69	40.00	22.14	200	279	Horizontal
2	46.8814	17.85	-30.40	40.00	22.15	100	320	Horizontal
3	75.0170	15.62	-35.25	40.00	24.38	200	332	Horizontal
4	133.616	18.23	-35.25	43.50	25.27	200	346	Horizontal
5	279.145	22.03	-29.01	46.00	23.97	100	346	Horizontal
6	729.315	26.89	-18.82	46.00	19.11	100	61	Horizontal

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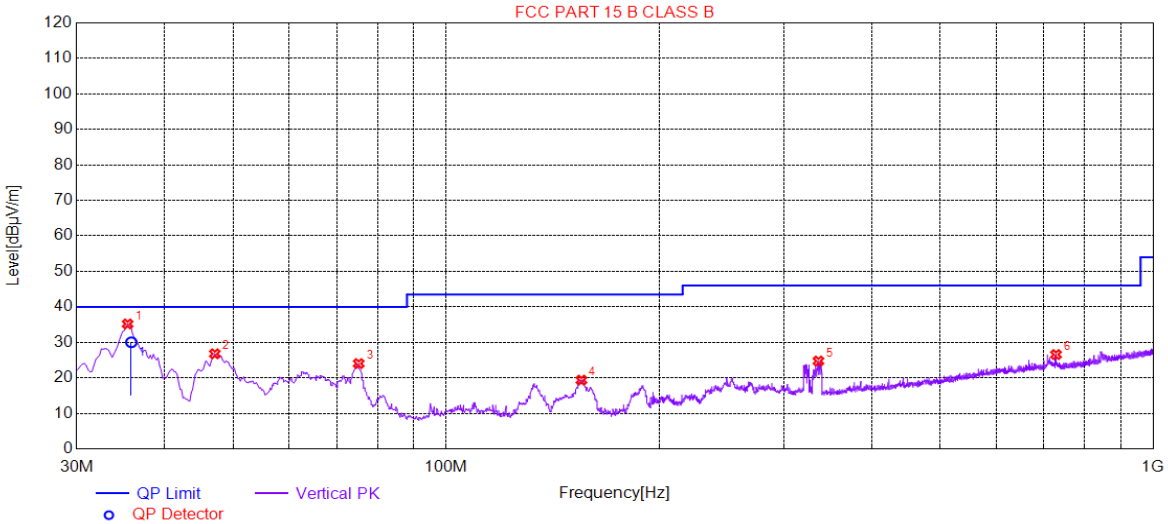

Suspected List								
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1	35.4331	35.19	-29.82	40.00	4.81	100	346	Vertical
2	47.0754	26.79	-30.40	40.00	13.21	100	335	Vertical
3	75.2110	24.03	-35.29	40.00	15.97	100	0	Vertical
4	155.349	19.37	-34.84	43.50	24.13	100	10	Vertical
5	336.193	24.74	-27.24	46.00	21.26	100	40	Vertical
6	728.927	26.56	-18.83	46.00	19.44	100	276	Vertical

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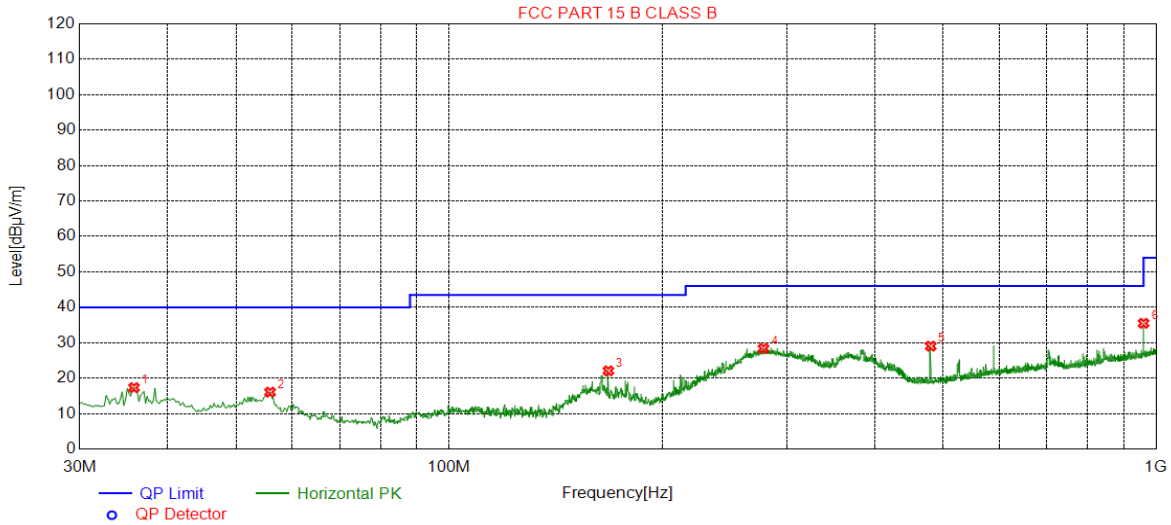

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8212	17.32	-29.69	40.00	22.68	200	302	Horizontal
2	55.8072	16.06	-31.24	40.00	23.94	200	308	Horizontal
3	167.961	22.07	-34.16	43.50	21.43	200	274	Horizontal
4	278.369	28.37	-29.02	46.00	17.63	100	258	Horizontal
5	479.976	29.04	-23.82	46.00	16.96	100	123	Horizontal
6	960.028	35.49	-15.34	54.00	18.51	100	211	Horizontal

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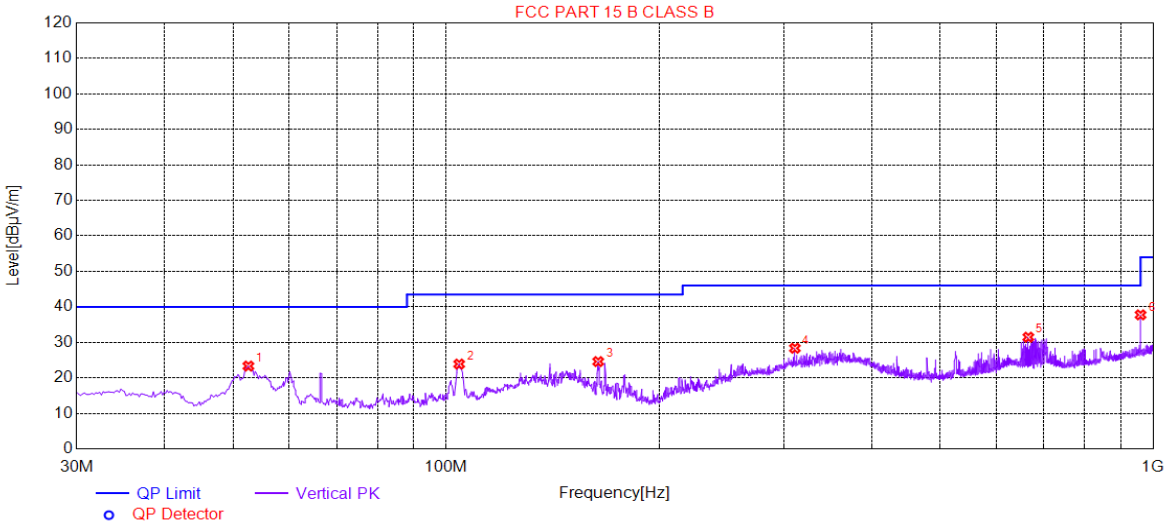

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.5085	23.33	-30.74	40.00	16.67	100	183	Vertical
2	104.3169	23.90	-32.00	43.50	19.60	100	144	Vertical
3	164.0808	24.59	-34.39	43.50	18.91	100	165	Vertical
4	311.3563	28.35	-27.94	46.00	17.65	200	337	Vertical
5	666.0592	31.46	-19.86	46.00	14.54	100	153	Vertical
6	960.0280	37.75	-15.34	54.00	16.25	100	347	Vertical

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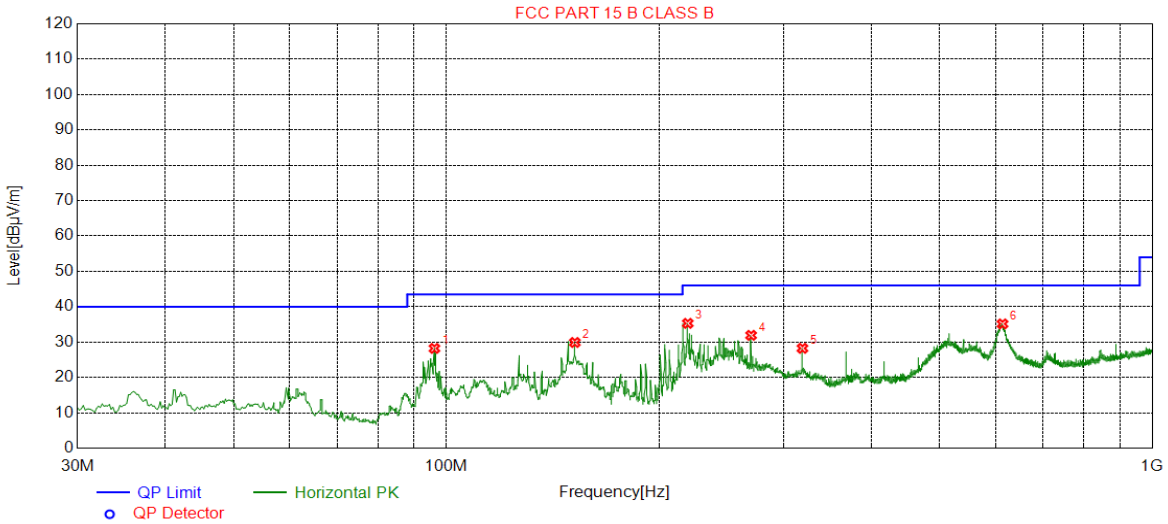

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	96.1672	28.21	-32.68	43.50	15.29	200	330	Horizontal
2	152.050	29.89	-34.99	43.50	13.61	200	356	Horizontal
3	219.770	35.30	-30.72	46.00	10.70	100	12	Horizontal
4	270.220	31.91	-29.17	46.00	14.09	100	50	Horizontal
5	319.505	28.24	-27.71	46.00	17.76	100	39	Horizontal
6	613.668	35.14	-20.47	46.00	10.86	100	346	Horizontal

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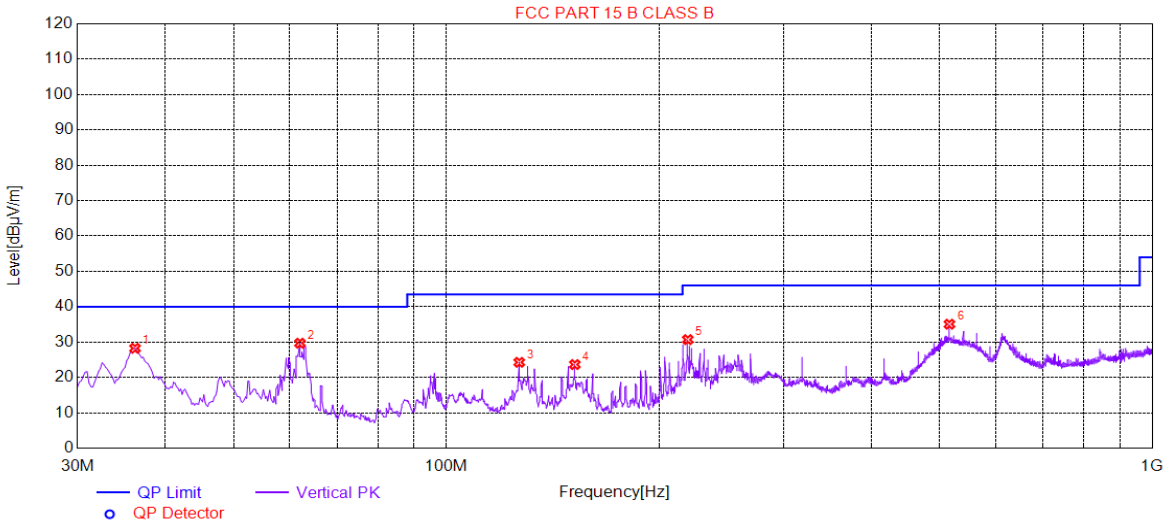

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.2092	28.24	-32.57	40.00	11.76	100	0	Vertical
2	62.0164	29.69	-32.38	40.00	10.31	100	70	Vertical
3	126.825	24.28	-34.60	43.50	19.22	200	14	Vertical
4	152.050	23.65	-34.99	43.50	19.85	200	170	Vertical
5	219.770	30.69	-30.72	46.00	15.31	200	300	Vertical
6	516.067	35.06	-22.91	46.00	10.94	100	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(dBμV/m) peak, 54(dBμV/m) average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 30000MHz

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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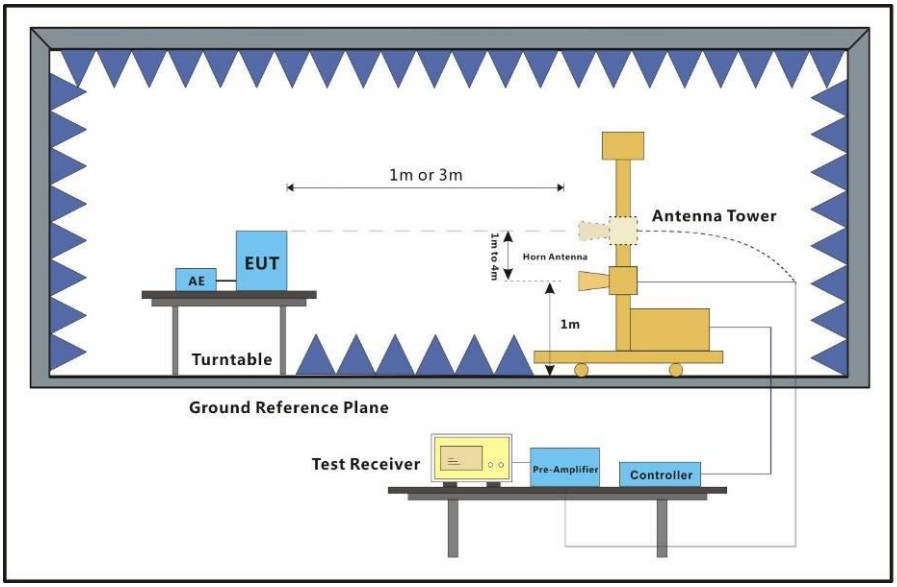
6.3.2 Test Setup Diagram



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.

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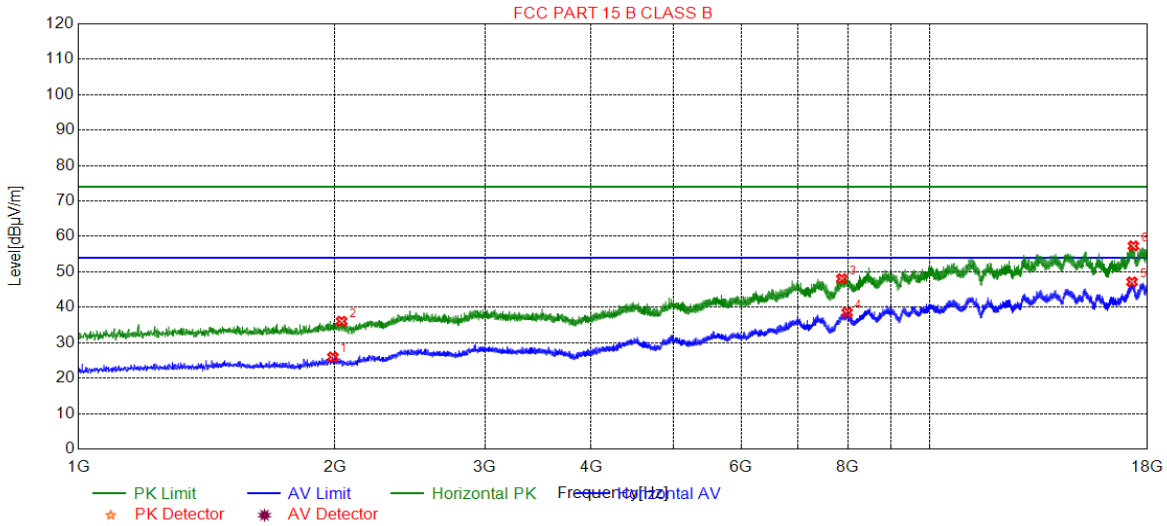
Mode:d; Polarization:Horizontal



Suspected List								
NO.	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	200	74	Horizontal
2	2037.0519	36.06	-28.63	74.00	37.94	200	255	Horizontal
3	7875.9938	48.07	-10.80	74.00	25.93	200	164	Horizontal
4	7989.8995	38.53	-9.95	54.00	15.47	100	75	Horizontal
5	17258.762	47.17	-1.81	54.00	6.83	200	74	Horizontal
6	17322.516	57.33	-1.53	74.00	16.67	200	74	Horizontal

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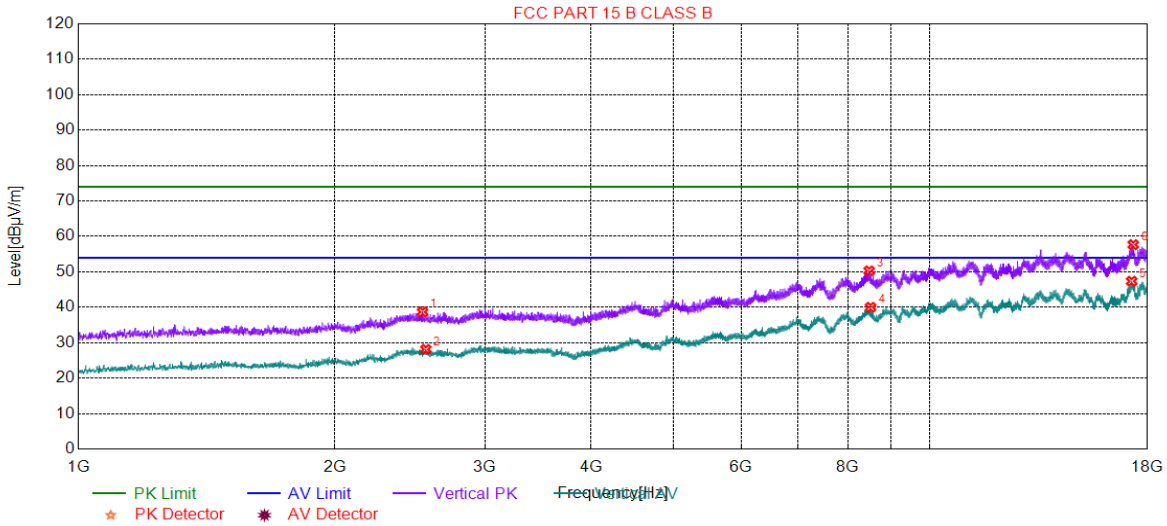
Mode:d; Polarization:Vertical



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	100	256	Vertical
2	2558.1279	28.13	-25.85	54.00	25.87	100	286	Vertical
3	8481.2241	50.29	-9.07	74.00	23.71	200	194	Vertical
4	8512.6756	40.01	-9.01	54.00	13.99	100	45	Vertical
5	17242.6121	47.35	-1.95	54.00	6.65	100	166	Vertical
6	17315.7158	57.68	-1.51	74.00	16.32	200	194	Vertical

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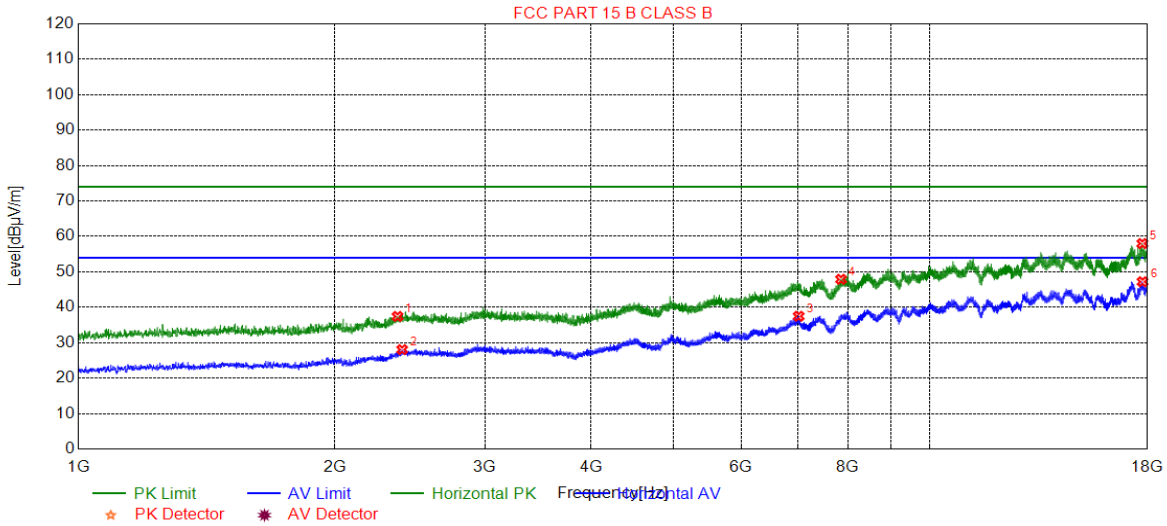
Mode:e; Polarization:Horizontal



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	100	196	Horizontal
2	2399.1700	28.06	-26.02	54.00	25.94	100	166	Horizontal
3	7008.9504	37.47	-12.55	54.00	16.53	100	257	Horizontal
4	7858.9930	47.90	-10.93	74.00	26.10	200	43	Horizontal
5	17748.3874	57.99	-1.24	74.00	16.01	100	226	Horizontal
6	17755.1878	47.21	-1.31	54.00	6.79	200	104	Horizontal

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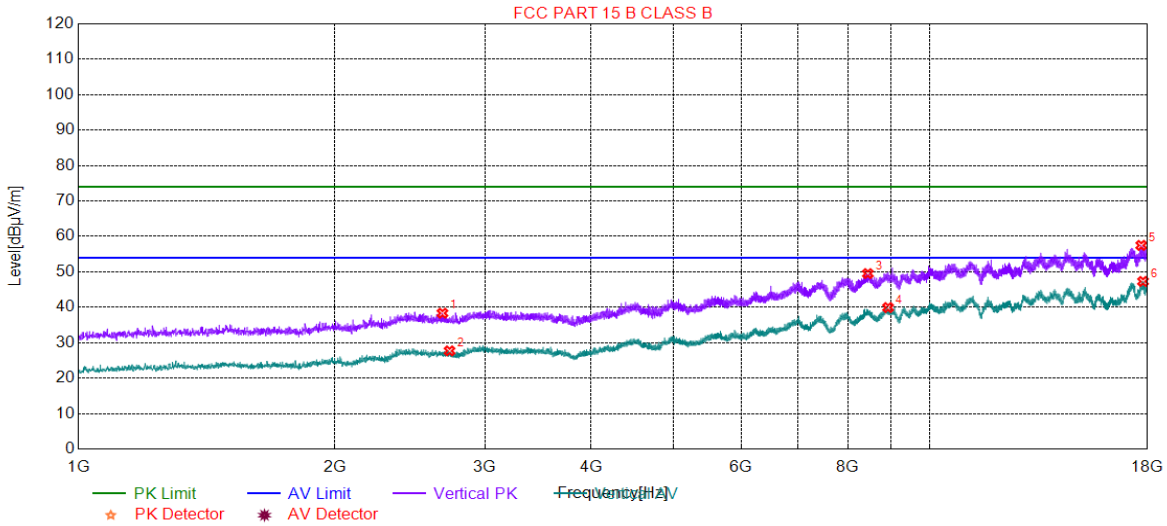
Mode:e; Polarization:Vertical



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	200	315	Vertical
2	2727.2864	27.70	-25.81	54.00	26.30	100	166	Vertical
3	8449.7725	49.51	-9.35	74.00	24.49	200	254	Vertical
4	8924.9462	39.92	-7.95	54.00	14.08	100	286	Vertical
5	17695.6848	57.47	-0.82	74.00	16.53	200	285	Vertical
6	17780.6890	47.30	-1.55	54.00	6.70	200	194	Vertical

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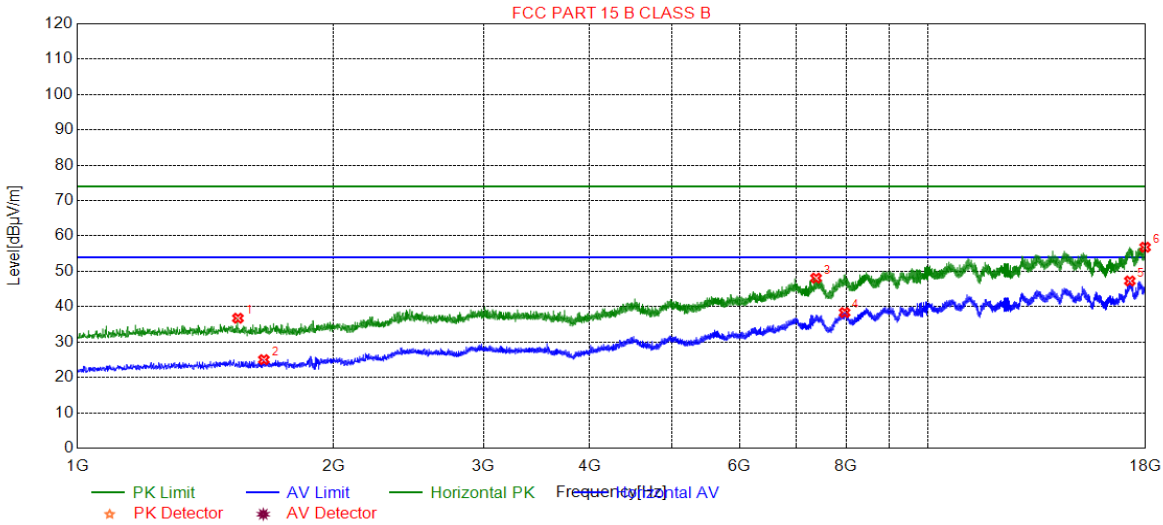

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1544.02	36.75	-30.13	74.00	37.25	100	226	Horizontal
2	1656.23	25.04	-30.12	54.00	28.96	100	45	Horizontal
3	7379.56	48.09	-12.02	74.00	25.91	100	196	Horizontal
4	7972.89	38.34	-10.07	54.00	15.66	200	255	Horizontal
5	17248.5	47.28	-1.90	54.00	6.72	200	224	Horizontal
6	17974.4	56.82	-2.16	74.00	17.18	200	164	Horizontal

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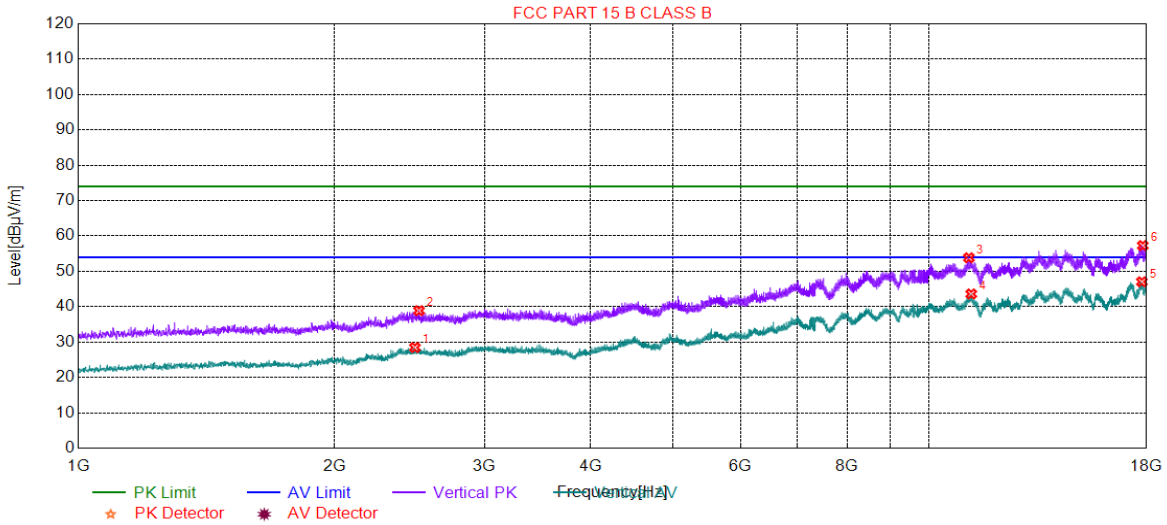

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.87	28.46	-25.92	54.00	25.54	100	316	Vertical
2	2513.92	38.88	-25.89	74.00	35.12	100	195	Vertical
3	11128.2	53.84	-3.88	74.00	20.16	200	134	Vertical
4	11199.6	43.61	-4.01	54.00	10.39	100	346	Vertical
5	17768.7	47.05	-1.44	54.00	6.95	100	75	Vertical
6	17814.6	57.29	-1.87	74.00	16.71	200	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 -

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